

Clinton Middle School

100 West Boylston Street, Clinton, MA 01510

MSBA Schematic Design Binder

February 23, 2024

MSBA

Massachusetts School Building Authority 40 Broad Street, Suite 500, Boston, MA 02111

OWNER

Town of Clinton, MA 242 Church Street, Clinton, MA 01510

OPM

Dore + Whittier 220 Merrimac Street, Building 7, 2nd Floor, Newburyport, MA 01950

DESIGNER

Lamoureux Pagano Associates | Architects 108 Grove Street, Suite 300, Worcester, MA 01605

Prepared by:





February 23, 2024

Veatriki Dagkalakou



MSBA Project Manager Massachusetts School Building Authority 40 Broad Street, Suite 500 Boston, MA 02109

RE: Clinton Middle School – Schematic Design Submission

Dear Veatriki,

Please accept the Module 4 Schematic Design submission for the Town of Clinton Middle School project. As OPM, we have reviewed the package, and we believe that it meets the requirements as set forth by the MSBA in Module 4.

The Town has approved the materials included in the submission and agreed that the proposed project is within the Town's budget, as documented within the Schematic Design.

We look forward to your feedback and working with you to proceed to the next phase of this project.

Sincerely,

Trip Elmore, MCPPO DORE + WHITTIER doreandwhittier.com (978) 778-5353

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Clinton Middle School

4.1.1 DESE SUBMITTAL



Clinton Middle School

100 West Boylston Street, Clinton, MA 01510

MSBA 4.1.1 DESE Submittal

February 23, 2024

MSBA (Project # 202000640305)

Massachusetts School Building Authority 40 Broad Street, Suite 500, Boston, MA 02111

OWNER

Town of Clinton, MA 242 Church Street, Clinton, MA 01510

OPM

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Clinton Middle School

4.1.1 DESE SUBMITTAL

A. Cover Letter

February 23, 2024

Mr. Mike McGurl Director of Capital Planning Massachusetts School Building Authority 40 Broad Street, Suite 500 Boston, MA 02109

RE: Clinton Middle School Schematic Design Submission

Dear Mr. McGurl,

The Town of Clinton is pursuing the execution of a Project Scope and Budget Agreement for the MSBAapproved schematic design of the Clinton Middle School in Clinton, MA. The Town's 2023 enrollment is 1999 students. The design enrollment for the proposed school is 700. The existing Clinton Middle school currently serves grades 5-8 and is proposed to serve grades 4-8.

In accordance with G.L. c. 70 B, MSBA staff has assembled the documents required for the review of the special education program at the Clinton Middle School project. The following are attached per the 'Submittal Requirements:

- 1. A letter from Superintendent Steven Meyer describing the town's special education program.
- 2. Proposed space summary that includes the existing facility, proposed spaces, and MSBA guidelines based on the agreed upon design enrollment. The first page of this summary indicates a total of 14,200 square feet dedicated to the delivery of special education.
- 3. The floor plans for new construction of the proposed 136,000 square foot Clinton Middle School
- 4. A completed Special Education adjacency table.

I have reviewed the attached documents and confirm that the Town's School Building Committee has officially approved the attached submittal on February 20, 2024, and verified that the Space Summary matches the floor plan and is complete and conforms to the MSBA requirements as described in Module 4- Schematic Design Guidelines.

Sincerely,

Trip Elmore MCPPO

DORE + WHITTIER doreandwhittier.com (978) 778-5353



B. Special Education Delivery Methodology



CLINTON PUBLIC SCHOOLS

150 School Street Clinton, Massachusetts 978-365-4200 FAX: 978-365-5037 Email: smeyer@clinton.k12.ma.us SCHOOL COMMITTEE

Brendan Bailey Joel Bates Pam Gaw Matthew Varakis Tena Zapanits

Dr. Steven Meyer Superintendent

4B.2 - Special Education Delivery Methodology Letter

February 21, 2024

Dear Mr. Deninger,

Building a new school is a unique opportunity to try to build a space that can fit the needs of the students in the district, rather than trying to accommodate those needs in an outdated existing space. The educational programming plan for Clinton Middle School has tried to capture not only our current needs, but also the projected needs as we move forward. A new school is a significant investment, and one that must be able to meet the future needs of our students.

Clinton Middle School is the only middle school in the district. The current design is for the school to house grades four through eight. At this time, given our current enrollment, that would put 713 students in the new Clinton Middle School. Based on the enrollment certification from the MSBA, the school is being built for an enrollment of 700.

Clinton Public Schools is right around the state average in terms of special education enrollment. As a district, 21.9% of the students are special education students, which is slightly higher than the state average of 20.2%. However, the current CMS configuration of grades 5 through 8 only has a special education of 19.4%. It is estimated that we will be very close to the state average with the addition of the fourth grade.

The grade four through eight configuration seems to be a little unique, although one that is familiar to Clinton. However, during the design process, careful consideration was given to try to maintain a separation between the elementary grades, specifically grades 4 and 5, and the secondary grades, grades 7 and 8. This separation was also reflected in the design in regards to sub-separate programming spaces, being careful to allow for programs to remain within the 48-month window.

Clinton Public Schools feels very strongly that students need to be in the least restrictive environment and have access to high-quality Tier I instruction whenever possible. The proposal for CMS is designed around the following special education concepts:

- Co-Teaching and Inclusion This is the primary service delivery with students being assigned to either a co-taught classroom (one special education teacher and one general education teacher) or the student being in a general education classroom supported by an instructional assistant.
- Specialized Programs specialized instruction for Applied Behavioral Analysis (ABA), social-emotional (Therapeutic Learning Center TLC), and life skills will be included.
- Related and small group services such as speech, OT/PT, and pull-out resource room services are also provided.

The Clinton Public Schools is an Equal Opportunity/Affirmative Action Employer and is in compliance with Federal regulations prohibiting discrimination in employment on the basis of race, color, sex, religion, national origin, age, gender, gender identity, sexual orientation, homelessness, or disability. Please review the following Special Education Delivery Methodology, and feel free to contact us to address any questions or further information that you may require. We look forward to Board approval of our Project Scope and Budget Plan in April of 2024.

Thank you for your time and consideration as we work to best meet the needs of our everchanging student population.

Sincerely,

Steven C. Meyer, Ed.D. Superintendent

Torre

Loretta Braverman Assistant Superintendent of Pupil Services

Jennifer LaMontagne CMS Interim Principal

Clinton Middle School Special Education Delivery Methodology

A description prepared for the submission to the Massachusetts School Building Authority

February 2024

4B.2.1 Current Program

There are currently nine full-time special educators on staff. Four of these educators run pull-out sub-separate programs (Resource Room, TLC, ABA). The other five special educators are grade level liaisons with grade 5 having two and then each other grade having one. The grade level liaisons have schedules that include a combination of pull-out and push-in services to meet student needs.

Most students in CMS are primarily serviced through inclusion classes. Seventy of the current one-hundred and twelve students (63%) primarily receive inclusion support in a supported general education setting. As of right now, most of this inclusion support is provided by instructional assistants. However, as you will read in section 4B.2.2, the goal is to move to a co-taught model in the future.

Approximately 32 students, or 29% of the special education students at CMS currently receive what would be considered Resource Room support. This is a pull-out service where typically students are pulled out for one or multiple subject areas and taught by a special education teacher. One of the goals of CPS is to reduce the number of students who are receiving pull-out services by increasing the opportunities for co-taught instruction.

Currently 10 students, or 9% of the special education population at CMS are enrolled in the Applied Behavior Analyst (ABA) program. The curriculum focus includes teaching pragmatic skills to students who are typically on the Autism spectrum. This classroom is typically supported with multiple Instructional Assistants. Students in this program have a variety of needs and typically need support understanding social cues and their executive functioning skills. Sometimes students in this program may become frustrated and aggressive.

All of the currently enrolled students in this classroom are in either grade 5 or grade 6. Over the last few years, Clinton Elementary School, the only elementary school in the district, has substantially increased the number of in-house ABA programs that they are able to offer. CPS is starting to see a trend of more ABA students being able to stay in the district and access our inhouse ABA programming.

Clinton Middle School also has a Therapeutic Learning Classroom (TLC). The curriculum focus includes helping to support students who have primarily social-emotional disabilities. This classroom is typically supported with multiple Instructional Assistants. While some students may spend most of their day in this classroom, typically students in the TLC program are included in regular education classes and attend those classes when regulated and able to do so. When dysregulated, they are provided education and support in the TLC room. The number of students who access this program and the frequency with which they access the program varies quite a bit throughout the school year.

In addition to the special education teachers, there are also (1) school psychologist, (2) speech language pathologists, (1) a Board-Certified Behavior Analyst (BCBA), (1) part-time occupational therapist and (1) part-time physical therapist. Each of these staff works directly with students to either provide related services or to conduct testing. Currently, they all have an office/small room to work in except the OT and PT who share a space.

The last DESE onsite review for special education and civil rights took place during the 2021-2022 school year. At that time, there were only two indicators that required corrective action. These were SE56 - Special Education Program and Services are Evaluated, and CR25 Institutional Self-Evaluation. Action steps were developed for the CIMP and the CIMP Status for both indicators was marked as Complete in the April 15, 2023, one year update.

Through our internal review of CPS special education programs, our goal remains to offer all students a free and appropriate education in the least restrictive environment. Specifically, CPS wants to offer a continuum of services so that as many students as possible students have their educational needs met in-district. Specifically, the areas that are currently under development for implementation soon include co-teaching in grades 5 and 8 and the development of a life skills program and curriculum for some of the students coming through the ABA program, as they enter grades 7 and 8.

4B.2.2 Proposed Program

CPS wants to provide all students with access to high-quality tier I instructional programming as much as possible. The primary vehicle for increasing access to high-quality tier I instruction while also meeting the special needs of students is through co-teaching.

The goal of increasing the numbers of students in co-taught settings will also be to reduce the number of students in pull-out resource room settings. For example, the current grade 5 at CMS has 26 students in inclusion, 7 in ABA, and 6 in a resource room setting. However, current grade 4 at CES has 26 students in a co-taught pair of classrooms, 11 inclusion students supported by instructional assistants, 3 in a sub-separate ABA program, and none in a resource room setting. This shift in special education delivery has been in the works for years at the elementary level and is now making its way to Clinton Middle School.

As such, each neighborhood in the plan for the new Clinton Middle School has a full-size Special Education Liaison room included. This room would be used primarily as a co-taught classroom particularly for the younger grades. In grades 7 and 8, the room would either be used as a co-taught space or a pull-out classroom setting for use by the grade level special education teacher. To help support co-teacher, CPS has two special education teachers assigned to grade 5 and is planning to increase from 1 to 2 special education teachers in grade 6 for next year (FY25).

The next changes in the proposed program are to help ensure that CMS can offer a continuum of services at all grade levels, bearing in mind the proposed five-grade age span (Grades 4-8). Currently, CMS has four grades (Grades 5-8), so the 48-month age span restriction is normally not an issue; however, when adding a fifth grade to the building, that age-span needs to be accounted for.

CMS will continue to offer ABA programming and anticipates that this area will continue to grow given the current numbers in elementary school. In the current schematic, there is one full sized ABA classroom that is scheduled to be in the 4th grade neighborhood and primarily service students in grades 4 through 6. This full-sized room will also have an adjoining calming room and an office for the BCBA immediately next to the room.

Many students in the ABA program will continue to do more of a Life Skills program as they reach grades 7 and 8. The curriculum focus includes teaching students adult daily living skills. These students are typically not on a graduation pathway, and they will be in the district until they age out at 22. The primary focus of this program is to support the ability of these students to hopefully become self-sufficient at some point in their lives. The proposal is for the CMS to have one full-sized room that would be used for the life skills program. Immediately next to this room, with access from the hallway, would be the Adult Daily Living center.

The adult daily living center would provide an area to support students in the Life Skills class that would teach skills for day-to-day living. This area would need to provide model areas where students can learn such skills as using a washer/dryer, dishwasher, stovetop, oven, and other household appliances, as well as basic work skills. Ideally the ADL could function as an informal Café for the Clinton MS teachers and staff. The ADL would provide workstations to teach skills needed for working with cash registers, and learning skills such as cooking, sorting, folding, labeling, and packing items to be sold in the Café. The ADL classroom would also be used to teach day-to-day life skills such as hygiene and nutrition to special education students not in the Life Skills program.

Given the social-emotional needs of many of our students, CMS will offer two Therapeutic Learning Center (TLC) programs. One of these would service grades 4 through 6 and the other grades 7 and 8. Each TLC classroom would have a calm down area with direct visibility from the classroom, as well as an adjacent TLC office space to house an adjustment counselor who supports the program.

Each grade neighborhood will have the following Special Education Spaces:

(1) Full-size Special Education Liaison classroom, primarily for co-taught classes.

(1) Half-size Resource Room for pull-out services,

(1) Half-size Small Group room for related service providers to use. It is also anticipated that these rooms will be used throughout the entire day. If available, they will also be scheduled to provide additional interventions and services such as Title I reading, English Learner services, and other interventions during the WINN block (as part of our MTSS system).

Related services are a large part of the special education program at CMS. These providers, speech and language pathologist, physical therapy, and occupational therapy all require their own specialized spaces. These areas should be able to accommodate small groups of 8 up to 12 students and include adequate secure storage for testing materials and confidential information. Considerations should be made to these areas so that they are not isolated from other instructional areas and to ensure that they are quiet for student testing. Speech and Language pathologists will utilize Small Group rooms or Resource Rooms in each of the neighborhoods. The OT/PT classroom shall be centrally located close to the Physical Education facilities. Soundproofing may be required depending on the location.

The OT/PT classroom shall be centrally located close to the Physical Education facilities and the Health Classroom and will be used by the occupational therapist and physical therapist to meet the specific needs of students. The OT/PT space would be used to support the Special Education curriculum by providing a separate area for smaller instruction. In addition to being used for OT/PT services, this space may be used by the physical educational teachers to provide alternate physical education activities that are consistent with a student's special needs. Additionally, specific adaptive PE gym classes are typically scheduled based on the number of students with these specific needs.

Each room should have a window in the entry so that administration or other staff can check on the room when the related service provider is working with a student one on one.

4B.2.3 Specialized Program

In general terms, Clinton Public Schools does not participate in any specialized programs; however, CPS does send students to out-of-district placements when we lack the ability to effectively meet their education needs. Currently, CPS sends approximately 32 students to out-of-district placements.

CPS is a member of the Keystone Collaborative. Of our 32 out-of-district placements, 10 of them are with Keystone. As a collaborative member, CPS always tries to use Keystone first when there is availability in a program that meets the needs of the student. Prior to COVID, CPS used to rent out two CMS classrooms to Keystone (formerly FLLAC). However, given our

current student population and the addition of EL and support personnel, CPS is no longer able to offer classroom space for rent to the collaborative.

CPS does not participate in or provide any formal alternative programs. Clinton High School does offer a program with flexible hours that uses primarily online instruction, but it is under the same school code as the regular Clinton High School.

CPS offers Pre-K programming at Clinton Elementary School and at Clinton High School. Currently Pre-K is free for all students who can get into the program. Each year we populate our pre-k students with our special education students and then hold a lottery to fill the rest of the classes with developmentally appropriate peers. One of the goals of moving the fourth grade back to CMS is to relieve the overcrowding in CES to allow for more Pre-K programming.

C. Educational Space Summary

					PROPOSED PROGRAM							Date: 2/23/2024 Schematic Design Submittal							Schematic Design Submittal					
CLINTON PUBLIC SCHOOLS CLINTON MIDDLE SCHOOL	EXI	EXISTING CONDITIONS		EXISTING CONDITIONS		EXISTING CONDITIONS		EXISTING CONDITIONS		EXISTING TO REMAIN / RENOVATED		NE	W CONSTRUCT	TION		TOTAL		VARIAT	ION TO MSBA (GUIDELINES	MSB (Refer to Education			GUIDELINES (DO NOT MODIFY) I Facility Planning for additional information)
ROOM TYPE	ROOM NFA ¹	# OF ROOMS	AREA TOTALS		ROOM # OF NFA ¹ ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	COMMENTS					
CORE ACADEMIC			29,780			0			35,220			35,220			-850			36,070	STE Guidelines Policy					
(List rooms of different sizes separately)								1			1													
General Classroom			0			0							-900	-28	-25,200	900	28	25,200	850 NSF (minimum size) - 950 NSF (maximum size)					
General Classroom - 4th Grade			0			0	900	6	5,400	900	6	5,400	900	6	5,400									
General Classroom - 5th Grade		8	6,919			0	900	6	5,400	900	6	5,400	900	6	5,400									
General Classroom - 6th Grade		7	5,895			0	900	6	5,400	900	6	5,400	900	6	5,400									
General Classroom - Math - 7&8 Grade		3	2,344			0	900	3	2,700	900	3	2,700	900	3	2,700									
General Classroom - English Language Arts - 7&8 Grade		3	2,454			0	900	3	2,700	900	3	2,700	900	3	2,700									
General Classroom - Social Studies - 7&8 Grade		3	2,395			0	900	3	2,700	900	3	2,700	900	3	2,700	500	-	1 000						
Small Group Seminar (20-30 seats)		3	3,183			0	450	5	2,250	450	5	2,250	-50	3	1,250	500	2	1,000						
Collaborative Work Area - 4-6 Grade			0			0	750	3	2,250	750	3	2,250	750	3	2,250		_							
Collaborative Work Area - 7-8 Grade			0			0	0	0	0	0	0	0	0	0	0									
Science, Technology, Engineering (STE) Room (Grades 4-6)		2	1,941			0	0	0	0	0	0	0	-1,080	-4	-4,320	1,080	4	4,320	1,080 NSF (minimum size); Refer to the <u>STE Guidelines</u> for additional information.					
STE Storage Room		1	437			0	0	0	0	0	0	0	-120	-4	-480	120	4	480	Minimum of (1) 120 NSF STE Storage Room required per STE Room; Refer to the <u>STE Guidelines</u> for additional information.					
Science Classroom / Lab (Grades 7&8)		3	3,024			0	1,440	3	4,320	1,440	3	4,320	0	0	0	1,440	3	4,320	Assumed schedule: 1 period per day per student; 1,440 NSF (minimum size); Refer to the <u>Science Lab Guidelines</u> for additional information					
Pren Room		2	500			0	200	3	600	200	3	600	0	0	0	200	3	600	(1) 200 NSE Prep Room required per Science Classroom / Lab					
Central Chemical Storage Room		-	0			0	150	1	150	150	1	150	0	0	0	150	1	150	(1) 150 NSE Central Chemical Storage Boom required					
Teacher Planning		2	688			0	450	1	450	450	1	450	450	1	450	100	-	100						
		2	000			0	900	1	900	900	1	900	900	1	900									
			U			U	300	1	300	500	1	300	300	1	300									
SPECIAL EDUCATION			10,650			0			14,200			14,200			6,150			8,050	Special Education spaces require DESE review and approval.					
(List rooms of different sizes separately)								1										- 1						
Self-Contained Special Education Classroom		5	3,925			0							-950	-5	-4,750	950	5	4,750	850 NSF (minimum size) - 950 NSF; equal to the size of the proposed General Classrooms that serve the same student population.					
Self-Contained Special Education Classroom - TLC			0			0	900	2	1,800	900	2	1,800	900	2	1,800									
Self-Contained Special Education Classroom - ABA			0			0	900	1	900	900	1	900	900	1	900									
Self-Contained Special Education Classroom - Life Skills			0			0	900	1	900	900	1	900	900	1	900									
Adult Daily Living			0			0	450	1	450	450	1	450	450	1	450									
Self-Contained Special Education Toilet Room			0			0	150	2	300	150	2	300	90	-3	0	60	5	300						
Special Education Liason - 4th Grade		1	796			0	900	1	900	900	1	900	900	1	900									
Special Education Liason - 5th Grade		1	830			0	900	1	900	900	1	900	900	1	900									
Special Education Liason - 6th Grade		1	693			0	900	1	900	900	1	900	900	1	900									
Special Education Liason - 7th Grade		1	784			0	900	1	900	900	1	900	900	1	900									
Special Education Liason - 8th Grade		1	799			0	900	1	900	900	1	900	900	1	900									
Calming [Grade 4-6]		1	319			0	100	2	200	100	2	200	100	2	200									
Calming [Grade 7-8]		1	319			0	100	1	100	100	1	100	100	1	100									
OT/PT			0			0	900	1	900	900	1	900	900	1	900									
Office - OT/PT		1	373			0	150	1	150	150	1	150	150	1	150									
Office - Adjustment Counselor, TLC		1	296			0	100	2	200	100	2	200	100	2	200									
Office - BCBA		1	373			0	150	1	150	150	1	150	150	1	150									
Office - Psychologist			0			0	150	1	150	150	1	150	150	1	150									
SPED Conference room			0			0	350	1	350	350	1	350	350	1	350									
Resource Room		2	684			0	450	5	2 250	450	5	2 250	-50	1	250	500	4	2 000	1/2 size of a General Classroom					
Small Group Boom		1	450			0	450	2	2,230	450	2	2,230	-50	0	-100	500	2	2,000						
		±	459				400	<u> </u>	900	400	<u> </u>	500	-50	U	-100		2	1,000						
Public Day Education Spaces (List sector constation below)		1						I			I													
Fusic Day concation spaces (List rooms separately below)					1																			
Collaborative Program States (List reams states to believe)		I						I			I													
Conaborative Program Spaces (List rooms separately below)					1																			
ART & MUSIC			5,960			0			5,100			5,100			500			4,600						
Art Classroom		2	1.067				1 200	2	2 400	1 200	2	2 400	0	0	0	1 200	2	3 400	Assumed schedule: 50% total appallment: 2 times per week					
		2	1,907			0	1,200	<u> </u>	2,400	1,200	<u> </u>	2,400	U	U	0	1,200	<u> </u>	2,400	i isourieu schedule. 50% totar enforment, 2 tilles per week					
Art Workroom with Storage and Kiln		1	143			0	150	2	300	150	2	300	0	0	0	150	2	300						

							PRO	OPOSED PROG	RAM						
CLINTON PUBLIC SCHOOLS EXISTING CONDITIONS					TO REMAIN / F	RENOVATED	NE	W CONSTRUCT	TION		TOTAL		VARIATION TO MSBA GUIDELINES		
ROOM TYPE	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS
Band / Chorus (100 seats)		2	2,810			0	1,500	1	1,500	1,500	1	1,500	0	0	0
Music Practice / Ensemble		<u>1</u>	91			0	200	2	400	200	2	400	0	0	0
Music Storage		2	780			0	250	2	500	250	2	500	250	2	500
Music Office		1	169			0	0	0	0	0	0	0	0	0	0
VOCATIONS & TECHNOLOGY			2,986			0			4,320			4,320			0
Technology / Engineering Rooms			0			0							-1,440	-3	-4,320
Industrial Arts		2	2,620			0	1,440	1	1,440	1,440	1	1,440	1,440	1	1,440
Computer Science		1	74			0	1,440	1	1,440	1,440	1	1,440	1,440	1	1,440
Life Science		1	292			0	1,440	1	1,440	1,440	1	1,440	1,440	1	1,440
Prep Room & Storage [included in classroom spaces]			0			0			0	0	0	0	0	0	0
HEALTH & PHYSICAL EDUCATION			12,951		1	0		1	9,400		1	9,400			1,000
Gymnasium		1	8,723			0	7,000	1	7,000	7,000	1	7,000	1,000	0	1,000
Gym Storeroom		2	663			0	150	1	150	150	1	150	0	0	0
Health Instructor's Office with Shower and Toilet		2	234			0	250	1	250	250	1	250	0	0	0
Locker Rooms - Boys and Girls with Toilets		2	3,331			0	1,000	2	2,000	1,000	2	2,000	0	0	0
MEDIA CENTER			3,758		1	0		1	4,405		1	4,405			0
Media Center / Reading Room		1	3,758			0	2,965	1	2,965	2,965	1	2,965	-1,440	0	-1,440
Maker Space			0			0	1,440	1	1,440	1,440	1	1,440	1,440	1	1,440
DINING & FOOD SERVICE			9,754		1	0		1	10,558		<u> </u>	10,558			1,000
Cafeteria / Dining		1	5,955			0	5,250	1	5,250	5,250	1	5,250	0	0	0
Platform [Stage]		1	706			0	1,600	1	1,600	1,600	1	1,600	0	0	0
Chair / Table / Equipment Storage		1	159			0	433	1	433	433	1	433	0	0	0
Kitchen		1	2,415			0	3,000	1	3,000	3,000	1	3,000	1,000	0	1,000
Staff Lunch Room		1	519			0	275	1	275	275	1	275	0	0	0
MEDICAL			677		1	0		1	610		1	610			0
Medical Suite Toilet		1	69			0	60	1	60	60	1	60	0	0	0
Nurses' Office / Waiting Room		1	273			0	250	1	250	250	1	250	0	0	0
Examination Room / Resting		1	335			0	100	3	300	100	3	300	0	0	0
ADMINISTRATION & GUIDANCE			4,096			0			3,500			3,500			0
General Office / Waiting Room with Toilet		1	464			0	575	1	575	575	1	575	125	0	125
Teachers' Mail and Time Room		1	205			0	100	1	100	100	1	100	0	0	0
Сору Room			0			0	200	1	200	200	1	200	0	0	0
Records Room			0			0	200	1	200	200	1	200	0	0	0
Principal's Socretary (Waiting, Included in General Office)		1	1/9			0	300	1	300	300	1	300	-75	-1	-/5
Assistant Principal's Office - AP1		1	152			0	150	1	150	150	1	150	0	0	0
Assistant Principal's Office - AP2		1	296			0	150	1	150	150	1	150	0	0	0
Supervisory / Spare Office		1	76			0	150	1	150	150	1	150	0	0	0
Conference Room		3	1,172			0	350	1	350	350	1	350	0	0	0
Guidance Office		3	412			0	150	4	600	150	4	600	0	0	0
Guidance Waiting Room		1	311			0	100	1	100	100	1	100	0	0	0
Guidance Storeroom		4	0			0	50		50	50		50	0	0	0
		1	829			0	450	1	450	450	1	450	-50	0	-50
			0			0	125	1	125	125	1	125	125	1	125
CUSTODIAL & MAINTENANCE			3,155			0			2,175			2,175			0
Custodian's Office		1	80			0	150	1	150	150	1	150	0	0	0
Custodian's Workshop		1	830	L		0	250	1	250	250	1	250	0	0	0

Date: 2/23/2024 Schematic Design Submittal

	(Refer	MSBA to Educationa	GUIDELINES (DO NOT MODIFY) I Facility Planning for additional information)
ROOM NFA ¹	# OF ROOMS	AREA TOTALS	COMMENTS
1,500	1	1,500	Assumed schedule: 50% total enrollment; 2 times per week
200	2	400	
		4,320	STE Guidelines Policy
1,440	3	4,320	Assumed schedule: 50% total enrollment; 5 times per week; 850 NSF (minimum size) - 2,000 NSF (maximum size); Refer to the <u>STE</u> <u>Guidelines</u> for additional information.
		8,400	Excess Physical Education Spaces Policy
6,000	1	6,000	
250	1	250	
1,000	2	2,000	
		4,405	
4,405	1	4,405	
		9 558	
5 250	1	5,550	Based on 2 lunch seatings - 15 NSE per seat
1,600	1	1,600	
433	1	433	
2,000	1	2,000	1,600 NSF for first 300 students + 1 NSF per additional student
275	1	2/5	20 NSF per student
		610	
60	1	60	
250	1	250	
100	3	300	
		3,500	
450	1	450	
200	1	200	
200	1	200	
375	1	375	
125	1	125	
150	1	150	
150	1	150	
350	1	350	
150	4	600	
50	1	50	
500	1	500	
		2,175	
150	1	150	

				PROPOSED PROGRAM													Date	e: 2/23/2024	Schematic Design Submittal														
CLINTON PUBLIC SCHOOLS CLINTON MIDDLE SCHOOL	EXIS	EXISTING CONDITIONS		EXISTING CONDITIONS		EXISTING CONDITIONS		EXISTING CONDITIONS		EXISTING CONDITIONS		EXISTING CONDITIONS		EXISTING CONDITIONS		EXISTING CONDITIONS		NG CONDITIONS EXISTING TO REMAIN		RENOVATED	ENOVATED NEW CONSTRUCTION		TION		TOTAL		VARI	ATION TO MSBA	GUIDELINES	MSBA GUIDELINES (DO NOT MODIFY) (Refer to Educational Facility Planning for additional information)			
ROOM TYPE	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROON NFA ¹	I # OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	COMMENTS														
Custodian's Storage		1	715			0	375	1	375	375	1	375	0	0	0	375	1	375															
Recycling Room / Trash			0			0	400	1	400	400	1	400	0	0	0	400	1	400															
Receiving and General Supply		1	468			0	333	1	333	333	1	333	0	0	0	333	1	333															
Storeroom		1	741			0	467	1	467	467	1	467	0	0	0	467	1	467															
Network / Telecom Room		1	321			0	200	1	200	200	1	200	0	0	0	200	1	200															
OTHER			1,582			0			900			900			900			0															
(List rooms separately below)																																	
Greenhouse		1	623			0			0	0	0	0	0	0	0																		
Food Pantry		1	104																														
Classroom Health/Wellness		1	855			0	900	1	900	900	1	900	900	1	900																		
Total Building Net Floor Area (NFA)			85,349			0			90,388			90,388			8,700			81,688	Total Building Net Floor Area (NFA)														
																# of Grades	5																
																Grade 4	1																
Proposed Student Capacity / Enrollment																Grade 5	1	700	Total Enrollment (Enter Design Enrollment)														
																Grade 6	1	420	Lower Middle School Enrollment (Grades 4-6)														
																Grade /	1	280	Upper Middle School Enrollment (Grades 7-8)														
																Grade 8	1																
NON-PROGRAMMED SPACES		1			% of GFA	0		% of GFA	-90,388		% of GFA	45,612			45,612				Complete this category with Schematic Design Submittal														
Other Occupied Rooms (List rooms separately below)																																	
Med Storage [Meducal]			0			0	50	1	50	50	1	50	50	1	50																		
Unoccupied MEP / FP Spaces				-	#DIV/0!		-	#DIV/0!	2,160	-	1.6%	2,160																					
Unoccupied Closets, Supply Rooms, and Storage Rooms				-	#DIV/0!		-	#DIV/0!	1,013	-	0.7%	1,013																					
Toilet Rooms				-	#DIV/0!		-	#DIV/0!	3,646	-	2.7%	3,646																					
Circulation (corridors, stairs, ramps and elevators)				-	#DIV/0!		-	#DIV/0!	29,867	-	22.0%	29,867																					
Remaining				-	#DIV/0!	0	-	#DIV/0!	-127,124	-	6.5%	8,876																					
2			100 533	- I								100.000																					
Total Building Gross Floor Area (GFA) ²			130,000			0			0			136,000			21,000			115,000	Total Building Gross Floor Area (GFA) ²														
			4.52		_	#D0//01			0.00			4.50					-		Creasing Factor (CFA (NFA)														
Grossing Factor (GFA / NFA)			1.52			#DIV/0!			0.00			1.50			0.10			1.41	Grossing Factor (GFA / NFA)														

¹ Individual Room Net Floor Area (NFA)

Includes the net square footage measured from the inside face of the perimeter walls and includes all specific spaces assigned to a particular program area including such spaces as non-communal toilets and storage rooms.

² Total Building Gross Floor Area (GFA)

Includes exterior walls, interior partitions, chases, and other areas not listed above. Do not calculate this area, it is assumed to equal the difference between the Total Building Gross Floor Area and area not accounted for above.

Architect Certification

³ Remaining

I hereby certify that all of the information provided in this "Proposed Space Summary" is true, complete and accurate and, except as agreed to in writing by the Massachusetts School Building Authority, in accordance with the guidelines, rules, regulations and policies of the Massachusetts School Building Authority to the best of my knowledge and belief. A true statement, made under the penalties of perjury.

Name of Architecture Firm: Lamoureux Pagano Associates | Architects

Mr.O

Includes the entire building gross square footage measured from the outside face of exterior walls.

Name of Principal Architect: Eric D. Moore

Signature of Principal Architect:

Date: 2/23/2024

D. Floor Plans





4.1.1 DESE Submittal D. Floor Plans



Clinton Middle School





4.1.1 DESE Submittal D. Floor Plans



Clinton Middle School

E. Special Education Adjacency Table

CLINTON MIDDLE SCHOOL Proposed Special Education Program New Construction

Clinton Public Schools | Clinton Middle School

2/14/2024

MSBA	MSBA	Proposed	Floor	Proposed	Proposed Space Description and Reasoning for Adjacencies
Guidelines	Guidelines	Room Name	Plan	SF	
Space	SF		Designation		
Floor 1			(A-2)		
Resource Room	950	SPED LIAISON 7&8	A-1	900	Each neighborhood has one full-sized classroom to house a grade/team level SPED Liason special education teacher. In grades 7 and 8, the room would either be used as a co-taught space or a pull-out classroom setting for use by the grade level special education teacher. These classrooms can support up to 20 students at a time. For flexibility of scheduling and to provide adequate space to be utilized as a full inclusion classroom, these classrooms should be designated as full-sized classrooms. One of these classrooms should be located in 7th and 8th grade STEM neighborhood on the first floor.
Resource Room	950	SPED LIAISON 4TH	A-2	900	Each neighborhood has one full-sized classroom to house a grade/team level SPED Liason special education teacher . This room would be used primarily as a co-taught classroom particularly for the younger grades but could also serve as a classroom for pull-out instruction. These classrooms can support up to 20 students at a time. For flexibility of scheduling and to provide adequate space to be utilized as a full inclusion classroom, these classrooms should be designated as full-sized classrooms. This classroom is located integrally to the 4th grade neighborhood.
Small Group Room/ Reading	500	RESOURCE ROOM	B-1	450	Each grade level and neighborhood is equipped with at least two dedicated Resource/Small Group rooms. These rooms will be used for pull-out Special Education, English Language Learner services, Speech, and Reading and Math specialists/interventionists. These rooms will support between 8-12 students and will be utilized every period throughout the day. These spaces may be half sized classrooms, and should be integrated within the neighborhoods, with corridor access as well as connecting doors to adjacent classroom spaces where feasible. This resource room is integrated cetrally into the 4th Grade neighborhood and is adjacent to the collaborative work area.
Self-Contained Sped	500	SPED-LIFE SKILLS	c	900	Life Skills classroom will house one dedicated Special Education teacher and 8-12 students. The curriculum focus includes teaching students adult daily living skills. These students are typically not on a graduation pathway and they will be in the district until they age out at 22. A primary focus of this program is to support the ability of these students to hopefully become self-sufficient at some point in their lives. Given the spatial needs of the students and staff, a full-sized classroom is desired. A new or renovated school would include one Life skills classroom associated with the upper grade neighborhoods. The classroom is located on the first floor for grade level egress without requiring an elevator, and is integrated within the grade 7&8 STEM neighborhood. The Life skills classroom also requires adjacency to dedicated toilet rooms and to the Adult Daily Living classroom.
Self-Contained Sped - Toilet	60	SPED TOILET	D-1	100	Two dedicated toilet rooms will be shared between Life Skills Classroom and Adult daily living. This toilet room shall be accessible and will include a sink with an acccessible counterop to practice hygeine skills.
Self-Contained Sped - Toilet	60	SPED TOILET	D-2	200	Two dedicated toilet rooms will be shared between Life Skills Classroom and Adult daily living. This toilet room shall be large enough to accomodate a hoyer lift and a high-low changing table.
*Unique to District	500	ADULT DAILY LIVING	E	450	The Adult Daily Living (ADL) Classroom would provide an area to support students in the Life Skills class that would teach skills for day-to-day living. This area would need to provide model areas where students can learn such skills as using a washer/dryer, dishwasher, stovetop, oven, and other household appliances, as well as basic work skills. Ideally the ADL could function as an informal Café for the Clinton MS teachers and staff. The ADL would provide workstations to teach skills needed for working with cash registers, and learning skills such as cooking, sorting, folding, labeling, and packing items to be sold in the Café. The ADL classroom would also be used to teach day-to-day life skills such as hygiene and nutrition to special education students not in the Life Skills program. The ADL should be located with a connecting corridor to the Life skills classroom, with spearate corridor access and should be located within one of the 7 & 8th grade neighborhoods.
*Unique to District	950	SPED ABA	F	900	The Applied Behavioral Analyst (ABA) classroom will house one dedicated Special Education teacher and 8-12 students. The curriculum focus includes teaching pragmatic skills to students who are typically on the Autism spectrum. This classroom is typically supported with multiple Instructional Assistants. Students in this program have a variety of needs and typically need support understanding social cues and their executive functioning skills. Sometimes students in this program may become frustrated and aggressive. Given the spatial needs of the students and staff, a full-sized classroom is desired, with direct access to an inclusive calm-down area and adjacency to a BCBA office. This classroom services students in Grades 4-6 and is integrated into the 4th Grade neighborhood, but directly adjacent to the stairs for access from the 5th and 6th grade neighbornoods.
*Unique to District	Select SF	OFFICE - BCBA	G	150	This office space will house an Board Certified Behavioral Analyst (BCBA) who supports students in the ABA classroom. The office should be located directly adjacent to and with direct access to the ABA classroom and to the corridor, so that the BCBA can access the office without disturbing the classroom.
*Unique to District	950	CALMING GRADE 4-6	H-1	100	The ABA classroom requires an adjacent calm-down area with direct visibility from the classroom. This space will allow a student to regulate with access to sensory materials without stigma or the need to leave the classroom setting, and will be designed as an open alcove within the classroom.

CLINTON MIDDLE SCHOOL Proposed Special Education Program New Construction

Small Group Room/ Reading	950	OT/PT	I	900	The OT/PT classroom shall be centrally located close to the Physical Education facilities and the Health Classroom, and will be used by the occupational therapist and physical therapist to meet the specific needs of students. The OT/PT space would be used to support the Special Education curriculum by providing a separate area for smaller instruction. In addition to being used for OT/PT services, this space may be used by the physical educational teachers to provide alternate physical education activities that are consistent with a student's special needs. Additionally, specific adaptive PE gym classes are typically scheduled based on the number of students with these specific needs. This classroom is located in close proximity to the Gymnasium and health/wellness classroom.
*Unique to District	Select SF	OFFICE-OT/PT	J	150	The OT/PT office will be shared by the opccupational therapist and physical therapist. The office space is located directly adjacent to the OT/PT classroom
*Unique to District	Select SF	OFFICE - PSYCHOLOGIST	К	150	This office will house the school psychologist. The office must include a desk two chairs for meetings with students. The office is located within the main administration suite, in close proximity to the guidance and medical suites.
Floor 2					
Resource Room	950	SPED LIAISON 7&8	A-3	900	Each neighborhood has one full-sized classroom to house a grade/team level SPED Liason special education teacher. In grades 7 and 8, the room would either be used as a co-taught space or a pull-out classroom setting for use by the grade level special education teacher. These classrooms can support up to 20 students at a time. For flexibility of scheduling and to provide adequate space to be utilized as a full inclusion classroom, these classrooms should be designated as full-sized classrooms. This classroom is located in 7th and 8th grade Humanities neighborhood on the second floor.
Resource Room	950	SPED LIAISON 5TH	A-4	900	Each neighborhood has one full-sized classroom to house a grade/team level SPED Liason special education teacher . This room would be used primarily as a co-taught classroom particularly for the younger grades but could also serve as a classroom for pull-out instruction. These classrooms can support up to 20 students at a time. For flexibility of scheduling and to provide adequate space to be utilized as a full inclusion classroom, these classrooms should be designated as full-sized classrooms. This classroom is located in within the 5th grade neighborhood on the second floor.
Resource Room	950	SPED LIAISON 6TH	A-5	900	Each neighborhood has one full-sized classroom to house a grade/team level SPED Liason special education teacher. This room would be used primarily as a co-taught classroom particularly for the younger grades but could also serve as a classroom for pull-out instruction. These classrooms can support up to 20 students at a time. For flexibility of scheduling and to provide adequate space to be utilized as a full inclusion classroom, these classrooms should be designated as full-sized classrooms. This classroom is located in within the 6th grade neighborhood on the second floor.
Small Group Room/ Reading	500	RESOURCE ROOM	В-2	450	Each grade level and neighborhood is equipped with at least two dedicated Resource/Small Group rooms. These rooms will be used for pull-out Special Education, English Language Learner services, Speech, and Reading and Math specialists/interventionists. These rooms will support between 8-12 students and will be utilized every period throughout the day. These spaces may be half sized classrooms, and should be integrated within the neighborhoods, with corridor access as well as connecting doors to adjacent classroom spaces where feasible. This resource room serves the Grade 7-8 Humanities neighborhood on the second floor.
Small Group Room/ Reading	500	RESOURCE ROOM	В-3	450	Each grade level and neighborhood is equipped with at least two dedicated Resource/Small Group rooms. These rooms will be used for pull-out Special Education, English Language Learner services, Speech, and Reading and Math specialists/interventionists. These rooms will support between 8-12 students and will be utilized every period throughout the day. These spaces may be half sized classrooms, and should be integrated within the neighborhoods, with corridor access as well as connecting doors to adjacent classroom spaces where feasible. This resource room is integrated cetrally into the 5th Grade neighborhood and is adjacent to the collaborative work area.
Small Group Room/ Reading	500	RESOURCE ROOM	В-4	450	Each grade level and neighborhood is equipped with at least two dedicated Resource/small group rooms. These small group rooms will be used for pull-out Special Education, English Language Learner services, Speech, and Reading and Math specialists/interventionists. These rooms will support between 8-12 students and will be utilized every period throughout the day. These spaces may be half sized classrooms, and should be integrated within the neighborhoods, with corridor access as well as connecting doors to adjacent classroom spaces where feasible. This resource room is located so as to be shared by the 5th and 6th grade neighborhoods on the seoond floor.
Small Group Room/ Reading	500	RESOURCE ROOM	B-5	450	Each grade level and neighborhood is equipped with at least two dedicated Resource/Small Group rooms. These rooms will be used for pull-out Special Education, English Language Learner services, Speech, and Reading and Math specialists/interventionists. These rooms will support between 8-12 students and will be utilized every period throughout the day. These spaces may be half sized classrooms, and should be integrated within the neighborhoods, with corridor access as well as connecting doors to adjacent classroom spaces where feasible. This resource room is integrated within the 6th grade neighborhood on the second floor.
Small Group Room/ Reading	500	SMALL GROUP	L-1	450	Each grade level and neighborhood is equipped with at least two dedicated Resource/Small Group rooms. These small group rooms will be used for pull-out Special Education, English Language Learner services, Speech, and Reading and Math specialists/interventionists. These rooms will support between 8-12 students and will be utilized every period throughout the day. These spaces may be half sized classrooms, and should be integrated within the neighborhoods, with corridor access as well as connecting doors to adjacent classroom spaces where feasible. This resource room serves the Grade 7-8 Humanities neighborhood on the second floor.

CLINTON MIDDLE SCHOOL Proposed Special Education Program New Construction

Small Group Room/ Reading	500	SMALL GROUP	L-2	450	Each grade level and neighborhood is equipped with at least two dedicated Resource/Small Group rooms. These rooms will be used for pull-out Special Education, English Language Learner services, Speech, and Reading and Math specialists/interventionists. These rooms will support between 8-12 students and will be utilized every period throughout the day. These spaces may be half sized classrooms, and should be integrated within the neighborhoods, with corridor access as well as connecting doors to adjacent classroom spaces where feasible. This resource room is integrated within the 6th grade neighborhood on the second floor.
*Unique to District	950	SPED - TLC	M-1	900	Therapeutic Learning Classrooms (TLC) house one dedicated Special Education teacher and 8-12 students. The curriculum focus includes helping to support students who have primarily social- emotional disabilities. This classroom is typically supported with multiple Instructional Assistants. While some students may spend most of their day in this classroom, typically students in the TLC program are included in regular education classes and addend those classes when regulated and able to do so. When dysregulated, they are provided education and support in the TLC room. Given the spatial needs of the students and staff, a full-sized classroom, as well as an adjacent TLC office space to house an adjustment counselor who supports the program. This TLC classroom is associated with Grades 7 and 8. and is integrated into the grade 7-8 humanities neighborhood.
*Unique to District	Select SF	OFFICE-TLC	N-1	100	This TLC office space will house an adjustment counselor (AC) who supports the program. The office should be located directly adjacent to and with direct access to the TLC classroom and to the corridor, so that the AC can access the office without disturbing the classroom.
*Unique to District	Select SF	CALMING GRADE 7-8	0	100	Each TLC classroom requires an adjacent calm-down area with direct visibility from the classroom. This space will allow a student to regulate with access to sensory materials without stigma or the need to leave the classroom setting, and will be designed as an open alcove in the corner of the classroom.
*Unique to District	950	SPED - TLC	M-2	900	TLC classrooms house one dedicated Special Education teacher and 8-12 students. The curriculum focus includes helping to support students who have primarily social-emotional disabilities. This classroom is typically supported with multiple Instructional Assistants. While some students may spend most of their day in this classroom, typically students in the TLC program are included in regular education classes and addend those classes when regulated and able to do so. When dysregulated, they are provided education and support in the TLC room. Given the spatial needs of the students and staff, a full-sized classroom is desired. Each TLC classroom would have a calm down area with direct visibility from the program. This TLC classroom is associated with Grades 4-6. and is integrated between the 5th and 6th grade neighborhoods.
*Unique to District	Select SF	OFFICE-TLC	N-2	100	This TLC office space will house an adjustment counselor (AC) who supports the program. The office should be located directly adjacent to and with direct access to the TLC classroom and to the corridor, so that the AC can access the office without disturbing the classroom.
*Unique to District	Select SF	CALMING GRADE 4-6	H-2	100	Each TLC classroom requires an adjacent calm-down area with direct visibility from the classroom. This space will allow a student to regulate with access to sensory materials without stigma or the need to leave the classroom setting, and will be designed as an open alcove in the corner of the classroom.
*Unique to District	Select SF	SPED CONFERENCE	Ρ	350	The Clinton Middle School will also require a dedicated Special Education conference room large enough for 12-15 people. This collaborative space will be used for for family meetings, IEP meetings, SPED staff meeting, and evaluations with related service providers. This conference room is located within the Satelite Admin suite, directly accessible from the two story lobby and one level directly above the main administration suite.
			Total	14,200	

Square Footage Summary:

The proposed overall gross square footage of the new building is 136,000 SFT. Average square feet of General Classrooms is 900 NSF. MSBA guidelines include 8,050 net square feet of dedicated special education space. The proposed program is 6,150 nsf in excess of the guidelines.

*Indicates that space is unique to District's program and does not appear in MSBA space guidelines.

F. Design Enrollment Certificate assachusetts School Building Authority

Deborah B. Goldberg Chair, State Treasurer

James A. MacDonald

Mary L. Pichetti Chief Executive Officer Executive Director / Deputy CEO

August 31, 2023

Mr. Michael J. Ward, Town Administrator Town of Clinton 242 Church Street Clinton, MA 01510

Re: Town of Clinton, Clinton Middle School

Dear Mr. Ward:

On August 30, 2023, the Massachusetts School Building Authority's Board of Directors voted to approve the Town of Clinton's Preferred Schematic for the Clinton Middle School project. Based on this approval, enclosed is a Design Enrollment Certification for 700 students in grades 4-8 for your review and execution.

Please sign and return the attached certification within 21 calendar days to document the Town of Clinton's agreement on the design enrollment for the Clinton Middle School project.

If you have any questions or comments, please do not hesitate to contact Allison Sullivan (Allison.Sullivan@MassSchoolBuildings.org).

Sincerely,

Michael & McDul

Michael McGurl Director of Capital Planning

Cc: Legislative Delegation Matthew H. Kobus, Chair, Clinton Select Board Brendan Bailey, Chair, Clinton School Committee Dr. Steven Meyer, Superintendent, Clinton Public Schools Trip Elmore, Owner's Project Manager, Dore & Whittier Management Partners, LLC Kathryn Crockett, Designer, Lamoureux Pagano Associates, Architects File: 10.2 Letters (Region 2)

MASSACHUSETTS SCHOOL BUILDING AUTHORITY TOWN OF CLINTON CLINTON MIDDLE SCHOOL DESIGN ENROLLMENT CERTIFICATION

As a result of a collaborative analysis with the Massachusetts School Building Authority (the "MSBA") of enrollment projections and space capacity needs for the proposed project at Clinton Middle School, the Town of Clinton hereby acknowledges and agrees that the design of the proposed project at Clinton Middle School shall be based on an enrollment of no more than 700 students in grades 4-8. The Town of Clinton further acknowledges and agrees that, pursuant to 963 CMR 2.00 et seq., the MSBA shall determine the square feet per student space allowance and total square footage for grades 4-8 in a middle school serving 700 students. The Town of Clinton acknowledges and agrees that it has no right or entitlement to any particular design enrollment, square feet per student space allowance, or total square footage and that it has no right or entitlement to a design enrollment any greater than 700 students for Clinton Middle School, and further acknowledges and agrees that it shall not bring any claim or action, legal or equitable, against the MSBA, or any of its officers or employees, for the purpose of obtaining an increase in the design enrollment of Clinton Middle School that it has acknowledged and agreed to herein. The Town of Clinton further acknowledges and agrees that, among other things, the design enrollment, square feet per student space allowance, and total square footage of Clinton Middle School shall be subject to the approval of the MSBA's Board and that the final approval of a proposed project at Clinton Middle School shall be within the sole discretion of the MSBA's Board.

The undersigned, for themselves and the Town of Clinton, hereby certify that they have read and understand the contents of this Design Enrollment Certification and that each of the above statements is true, complete and accurate. The undersigned also hereby certify that they have been duly authorized by the appropriate governmental body to execute this Certification on behalf of the Town of Clinton and to bind the Town of Clinton to its terms.

Michaelfa

Chief Executive Officer

2023

Date

Superintendent of Schools

Date

Duly Authorized Representative of School Committee

ept 01, 2023

Date

4.1.2 SCHEMATIC DESIGN BINDER

- A. Introduction
- B. Final Design Program
- C. Traffic Analysis
- D. Environmental & Existing Building Assessment
- E. Geotechnical & Geo-environmental Analysis
- F. Code Analysis
- G. Utility Analysis
- H. Massing Study
- I. Building Systems Narratives
- J. Sustainable Building Design
- K. Accessibility Compliance
- L. Room Data Sheets
- M. Proposed Construction Methodology
- N. Reimbursement Rate
- O. Total Project Budget
- P. Designer Cost Estimate
- Q. OPM-CM Cost Estimate
- R. Updated Project Work Plan
- S. Local Actions and Approvals
- T. Supporting Documents

4.1.2 SCHEMATIC DESIGN BINDER

- A. Introduction
 - 1. Narrative
 - 2. Updated Budget Statement
 - 3. Visual Aids
 - 4. MSBA Approval to Proceed to SD
 - 5. MSBA PSR Responses

The Preferred Schematic Solution, approved by the MSBA Board of Directors at the August 30, 2023 Board meeting, consists of a New Construction solution 700 student middle school, configured for grades 4–8, to replace the existing Clinton Middle School. The proposed building is located on the existing site; on the east side of the current high school primarily where the current practice fields are located. The existing Clinton Middle School will remain in use during the construction of the new facility, after which the existing middle school will be demolished and any remaining sitework completed.

The project team has been proactive in its efforts to inform and educate the local community, staff/faculty and public at large relative to the proposed project. Numerous meetings have been held and presentations made to various Boards, Committees, Faculty/Staff, and the public including:

- July 24, 2023 | School Committee Meeting: CMS/MSBA Update
- August 2, 2023 | MSBA Facilities Assessment Sub-Committee meeting
- August 21, 2023 | School Committee Meeting: CMS/MSBA Update
- August 22, 2023 | School Building Committee (SBC)/Permanent Building Committee (PBC): Schematic Design Project Update
- August 28, 2023 | Middle School Faculty/Staff: general MSBA process update
- September 11, 2023 | School Committee Meeting: CMS/MSBA Update
- September 19, 2023 | SBC/PBC: Schematic Design Project Update: Sustainability, Site Plan, and Project Delivery Methodology
- September 25, 2023 | School Committee Meeting: CMS/MSBA Update
- October 3, 2023 | Chamber Speech/Presentation to Public
- October 3, 2023 | SBC/PBC: Schematic Design Project Update: Mechanical Systems, Construction Management @ Risk
- October 16, 2023 | Tri-Council Meeting: School Councils/School Committee: general MSBA process update
- October 17, 2023 | SBC/PBC Schematic Design Project Update: Massing and Materials
- November 6, 2023 | School Committee Meeting: CMS/MSBA Update
- November 14, 2023 | SBC/PBC Schematic Design Project Update: Building Control Systems
- November 29, 2023 Board of Selectmen Meeting (broadcasted local): FAQ document
- December 4, 2023 | School Committee Meeting: CMS/MSBA Update
- December 14, 2023 | Senior Center (to Seniors): FAQ document




MSBA Module 4

4.1.2 SCHEMATIC DESIGN BINDER

Schematic Design

A. Introduction

1. Narrative

- December 19, 2023 | SBC/PBC Schematic Design Project Update: FF&E and Proprietary Items
 - Also to Seniors at the Senior Center: FAQ document
- January 8, 2023 | School Committee Meeting: CMS/MSBA Update
- January 9, 2024 | SBC/PBC Schematic Design Project Update: Typical Classroom and Science Classroom
- January 22, 2023 | School Committee Meeting: CMS/MSBA Update
- January 30, 2024 | Clinton PBS/SBC meeting to discuss Geothermal/PV Systems
- February 6, 2024 | SBC/PBC Schematic Design Project Update: Cost Estimate
- February 12, 2023 | School Committee Meeting: CMS/MSBA Update
- February 13, 2024 | All-Boards Meeting: Televised in existing Clinton Middle School Cafetorium.
- February 20, 2024 | Clinton PBC/SBC meeting to vote Schematic Design approval

Minutes documenting the above can be found in Section 4.1.2, S Local Actions and Approvals and elsewhere in this SD submission.

The following is an updated description of the project:

- Grades served: 4–8
- Size of site: 15.7 acres
- GSF of proposed building: 136,000 square feet
- Total project budget: \$139,255,892. The District funding requires a town public vote followed by a ballot vote.
- Alternates: There will be 2 alternates:
 - 1. Turf field at new athletic field. Base scope will include sod grass with sprinkler system.
 - 2. Photovoltaic (PV) system on roof and parking lot canopy. Base scope will make the building "solar ready" for future PV installation.
- Construction Delivery Methodology: Ch. 149A Construction Manager @ Risk
 - 1. Fontaine Bros. was selected by the Town on December 13th, 2023 at the CM @ Risk.
- Sustainable design to meet LEED v4 Silver certification requirements.
- Site features: min. 124 parking spaces, one fenced playground area adjacent to grade 4 academic wing, multi-purpose athletic field, separate parent pick-up/drop off for 58 cars and bus pick-up/drop off for 5 buses with additional capacity along south access road, and a service area on the south side of the building.





MSBA Module 4

4.1.2 SCHEMATIC DESIGN BINDER

Schematic Design

A. Introduction

1. Narrative

Presentation graphics including rendered site plan, floor plans, and 3D views are included in section 4.1.2, A, 3 for use at the MSBA Board meeting.

During the Schematic Design process, the development of the site/building and SD submission was informed by several important issues including the following:

- Geotechnical borings at the site were conducted and are included in section 4.1.2.E Geotechnical and Geo-Environmental Analysis.
- A traffic Analysis was conducted in October 2023 and is included in section 4.1.2.C Traffic Analysis.
- A flow test was conducted in October 2023 which determined that there was adequate pressure; there is no need for a fire pump to serve the new 2-story middle school building. Refer to section 4.1.2, I for fire protection quality control narrative.
- A code review was conducted on the Schematic Design drawings and is included in section 4.1.2, F Code Analysis.
- The site design was carefully analyzed to minimize the amount of soil that would need to leave the site.
- Phased occupied construction plans were developed to assist with estimating and public presentations. Refer to section 4.1.2, M for phasing plans.
- Preliminary Furniture, Furnishings and Equipment budgets were developed to assist with the Total Project Budget.
- The Owner voted on and approved the building being fully electric as well as including a geothermal system as part of the base scope of work that will support approximately 40% of the building. Additionally, the Owner voted to include a photovoltaic system as an add alternate.

The above items are described in greater detail throughout the SD submission, and related costs have been incorporated into the SD cost estimates and Total Project Budget as appropriate. Refer to section 4.1.2, R for further information on the project work plan which includes some key dates as the project advances.

DEED UPDATE

As an update to the deed information provided in the PSR, the Town of Clinton worked with National Grid to record a previous land swap on the existing middle school property relative to overhead electric





1. Narrative

transmission lines that were relocated to accommodate the construction of the middle school in 1976. Refer to section <u>4.1.2, T Supporting Documents</u> for the recorded plans and executed deeds that completes the land swap.

COMMUNITY OUTREACH OVERVIEW

The Clinton Middle School project has been a priority project for the School District for several years. The school which supports a 5–8 grade configuration has needed a new project for some time. The project originally thought to be a renovation project became more realistic as a new building in the community's opinion. In Public and All–Boards forum presentations, they voted with stickers on their preferred options, which clearly indicated that a new building option should be pursued by the team. The new building option will provide infrastructure, education, and circulation improvements for an expanded 4–8 grade configuration thereby reducing overcrowding in the elementary school.

The project team and District Superintendent have led an extensive community outreach plan and has shared important information with the community to gain support of the project. The project's SBC and School Committee included members from the member communities, who will ultimately be voting members to approve project funding. These members have been sharing information about the project all along to keep all stakeholders aware of the project scope, cost, and schedule.

We believe there is overwhelming support from the SBC, School Committee, Selectmen, and Finance Committee and school community at large. The District Wide vote is expected to take place after the April 2024 MSBA Board meeting in early June.







TOTAL PROJECT BUDGET NARRATIVE

The budget that is presented in this application reflect the combined work efforts of the SBC, OPM, the Design team and Construction Manager to evaluate the academic and existing deficiencies of the existing Clinton Middle School. The Schematic Design documents have been analyzed and reconciled by two (2) independent cost estimators to ensure the project budget requirements of the School District have not been exceeded.

ESTIMATE RECONCILIATION

Estimates for the project were prepared by A.M. Fogarty & Associates, Inc. working as a member of the Architect's team, and Fontaine Bros. Construction working for the District as Construction Manager. Both estimating teams were provided with all the materials developed by the Designer and had access to the building, site, scoping narratives, and committee minutes as needed. On Friday, February 2nd, 2024, members of the entire project team met to reconcile differences between the two estimates. This reconciliation meeting resulted in the estimators agreeing on the overall scope of the project as well as upon the projected cost.

	CSI Division	Cos	tiSF		Total Amount		A.M. Fogarty		Variance
02-0000	EXISTING CONDITIONS & DEMO	136,000 sf	24.36 /sf	\$	3,312,500	\$	3,105,000	\$	207,500
03-0000	CONCRETE	136,000 sf	28.23 /sf	\$	3,839,756	\$	3,351,159	\$	488,597
04-0000	MASONRY	136,000 sf	20.30 /sf	\$	2,760,148	\$	2,156,931	\$	603,217
05-0000	METALS	136,000 sf	52.63 /sf	\$	7,157,300	\$	7,267,076	\$	{109,776}
06-0000	ROUGH CARPENTRY	136,000 sf	3.44 /sf	\$	467,755	\$	613,151	\$	{145,396}
06-2000	FINISH CARPENTRY	136,000 sf	2.82 /sf	\$	383,468	\$	527,058	\$	{143,590}
07-0000	THERMAL & MOIST PROTECT	136,000 sf	17.86 /sf	\$	2,429,580	\$	2,692,642	\$	{263,062}
07-5000	ROOFING	136,000 sf	19.26 /sf	\$	2,620,000	\$	2,945,469	\$	{325,469}
07-8000	FIREPROOFING / CAULKING	136,000 sf	3.39 /sf	\$	460,800	\$	1,109,634	\$	(648,834)
08-0000	DOORS & WINDOWS	136,000 sf	31.67 /sf	\$	4,307,740	\$	3,876,471	\$	431,269
09-0000	FINISHES	136,000 sf	73.32 /sf	\$	9,970,859	\$	10,121,941	\$	(151,082)
10-0000	SPECIALTIES	136,000 sf	7.21 /sf	\$	980,010	\$	1,098,340	\$	{118,330}
11-0000	EQUIPMENT	136,000 sf	8.15 /sf	\$	1,108,150	\$	1,525,536	\$	(417,386)
12-0000	FURNISHINGS	136,000 sf	15.62 /sf	s	2,123,980	\$	1,880,655	\$	243,325
14-0000	CONVEYING SYSTEMS	136,000 sf	1.58 /sf	\$	215,000	\$	170,000	\$	45,000
21-0000	FIRE SUPRESSION	136,000 sf	8.15 /sf	\$	1,108,276	\$	1,052,800	\$	55,476
22-0000	PLUMBING	136,000 sf	27.98 /sf	\$	3,805,057	\$	3,984,580	\$	(179,513)
23-0000	HVAC	136,000 sf	87.32 /sf	\$	11,875,640	\$	12,310,034	\$	{434,394}
26-0000	ELECTRICAL	136,000 sf	60.58 /sf	\$	8,239,469	\$	9,023,162	\$	(783,693)
27-0000	COMMUNICATIONS	136,000 sf	0.00 /sf		Inc. Abbove		Inc. Abbove		
28-0000	ELECTRONIC SAFETY & SECURITY	136,000 sf	0.00 /sf		Inc. Abbove		Inc. Abbove		
31-0000	EARTHWORK	136,000 sf	31.30 /sf	\$	4,257,390	\$	3,835,102	\$	422,288
32-0000	EXTERIOR IMPROVEMENTS	136,000 sf	59.17 /sf	\$	8,046,851	\$	6,412,573	\$	1,634,278
33-0000	UTILITIES	136,000 sf	32.74 /sf	\$	4,452,679	\$	4,003,878	\$	448,801
		Total Dir	ect Cost	\$	84,048,967	\$	83,063,190	\$	985,777
		Design Cont	ingency	\$	8,404,897	\$	8,306,319	\$	98,578
		Es	calation	\$	5,042,938	\$	5,482,171	ŝ	(439,233)
		Construction Cont	ingency	\$	1,680,979	\$	1,827,390	\$	(146,411)
		Subcontractor Default In	surance	\$	1,239,722	\$	1,233,488	Ŝ	6,234
		Project Requi	rements	\$	4,425,600	\$	4,425,600	\$	-
		GC	s & GR's	\$	7,169,858	\$	7,169,858	\$	-
			CM Fee	\$	2,285,979	\$	2,230,160	\$	55,819
		Projec	t Toal	s	114 298 940	s	113 738 176	s	560 764
		Fiojec	i i oai	*	114,230,340		110,100,170	•	500,704

Clinton Middle School - Schematic Design Estimate - Cost Comparison Sheet

ALTERNATES		FOGARTY		
Add Alternate 1 - Add PV Canopy Structure	\$	917,900.00		
Add Alternate 2 - Turf Field ILO Sod	s	1,016,119.00	739,657.00	276,462.00



The 2 independent estimates were reconciled to less than .5% of each other: A.M. Fogarty & Associates \$113,738,176 and Fontaine Bros. Construction \$114,298,940, the delta between the 2 construction estimates is \$560,764. The cost estimates are included in section 4.1.2, P and Q respectively.

VALUE ENGINEERING

Based off the initial reconciled estimates both estimators were slightly over budget. The team therefore identified a series of Value Engineering options to maintain budget. Ultimately the team recommended a reduction in the Landscaping Plantings as a Value Engineering option that was presented to the SBC and voted to approve/accept on February 20th, 2024, at the PBC/SBC Meeting. The Total Project Budget is based upon the reconciled estimates with the incorporated Value Engineering item. The Value Engineering options, and approved list are listed below and included in section 4.1.2. O.

			CLINTON MS - SCHI	EMATIC VALUE ENGINEERING	LOG - 02.12.2024	Ì		
	C		Estimated Direct Cost	Estimated Total Cost	Projected Va			
Item #	Category	Item	Savings	Savings (20% Markup)	Tier 1	Tier 2	Accepted	
1	Landscape	Landscape planting reductions (30%)	\$ 266,000	\$ 319,200	Accepted		In SD	
2	Thermal	Delete underslab rigid insulation except within 4 feet of foundation walls.	\$ 250,000	\$ 300,000				
3	AV	Reduce Cafeteria Stage AV System to "basic" system (\$25k allowance)	\$ 50,000	\$ 60,000				
4	Equipment	Reduce Playground Equipment Allowance to \$300K	\$ 100,000	\$ 120,000				
5	AV	Reduce qty. (from 10 to 5) of Digital Screens/Signage in the Building	S 50,000	\$ 60,000				
		sub total	S 716,000	S 859,200				
		Potential Additional VE Items						
6	Site	Consider substituting 6" granite curb for 5" granite curb	\$ 43,500	\$ 52,200				
7	Electrical	If possible, consider deletion of Cell Amplification System	\$ 100,000	S 120,000				
8	Electrical	If possible, consider deletion of Environmental Sensors	\$ 68,000	\$ 81,600				
9	Mechanical	Review/reduce scope of lab waste system	TBD					
10	Roof	Consider substituting EPDM Roof in lieu of PVC	\$ 126,000	\$ 151,200				
11	Finishes	Consider restroom wall tile at wet walls only (~30% reduction)	\$ 30,000	\$ 36,000				
12	Finishes	Consider exposed ceilings at all storage and BOH spaces (3,000 sf)	\$ 20,250	\$ 24,300				
13	Finishes	Consider reduction of corridors wall tile from 7' tall to 4' wainscot	\$ 100,000	\$ 120,000				
		sub total	\$ 487,750	\$ 585,300				
		Overall Total	\$ 1.203.750	\$ 1.444.500				
		Overan Total	÷ 1,205,750	5 1,444,500				

PROJECT BUDGET FORM (3011)

The total project budget for the Clinton Middle School Project is one hundred and thirty-nine million, two hundred and fifty-five thousand, eight hundred and ninety-two dollars (\$139,255, 892.00). The estimated costs include hazardous materials abatement, limited site work, site utilities, selective demolition, construction, technology, professional fees, contingencies, escalation, and all other soft costs.

In building hazardous material is estimated at \$1,935,000 and we believe most of this scope will be eligible for reimbursement. We have included a cost breakdown below of all items in this category that was a part of the existing conditions report in the PDP submission to the MSBA. Asbestos containing floor material abatement is estimated at \$420,000 and we understand this



category is ineligible. We have no known ineligible site items like UG Storage/Oil tanks on the property but understand that they would be ineligible if identified at any time in the future.

COST ESTIMATES:

The cost includes removal and disposal of all accessible ACM, other hazardous material, and an allowance for removal of inaccessible or hidden ACM that may be found during renovation or demolition project

Location	Material	Approximate Quantity	Cost Estimate (\$)
Throughout	Various Types of Flooring and Mastic	70,000 SF	420,000.00
	Hard Joint Insulation	50 LF	5,000.00
	Hidden Hard Joint Insulation	1,000 LF	30,000.00
	Interior Windows	36 Total	10,800.00
	Interior Doors with Windows	72 Total	21,600.00
	Sinks	12 Total	3,600.00
	Blackboards/Tackboards	120 Total	48,000.00
	Miscellaneous Hazardous Materials	Unknown	25,000.00
	Hidden ACM	Unknown	15,000.00
	Light Fixtures	Unknown	75,000.00
Various Locations	Wood Fire Doors	10 Total	4,000.00
	Fume Hoods	3 Total	9,000.00
	Grey Duct Sealant	500 LF	25,000.00
Boiler Room	Duct Insulation	225 SF	11.250.00
	Boilers	2 Total	19,000.00
Gymnasium	Hardwood Flooring/Paper/Mastic	8,700 SF	87,000.00
Stage	Hardwood Flooring/Paper/Mastic	700 SF	7,000.00
Exterior	Transite Sewer Pipes	Unknown ¹	75.000.00
L'ALON OF	Damproofing/Elashing on Walls	3.500 Tons ¹	700.000.00
	Roofing Material	Unknown	160,000.00
Estimated costs for NESH	AP Inspection and Testing Services		14 750 00
Estimated costs for Design	 Construction Monitoring and Air Sampling Services 	ices	169 000 00
Latinated costs for Design	, construction womtoring and Air Sampling Serv	1.65	105,000.00
		TOTAL:	\$ 1,935,000.00

Site work is estimated to cost \$15,235,767. This includes provisions for existing exterior pathways and play areas and new access road circulation and parking lot in the footprint of the existing school building.

Regarding cost recovery from prior projects, the town of Clinton does not have any current or outstanding projects in the past 20 years with the State or MSBA.

Construction costs carried in the budget (3011) for the new building is estimated at \$114,295,892.

Project Budget Form 3011 is included at the end of this section. It has been reviewed with the Owner, approved by the PBC/SBC on February 20th, 2024. The total project cost for the Clinton Middle School Project is below and within the local budget established through the Feasibility Study process.



LOCAL TAX IMPACT AT A BORROWING SCHEDULE OF 40, 30, & 25 YEARS

The local Tax impact estimates are also provided in this section. Please find below a copy of bond schedules showing 40/30/25 year term impacts for borrowing on the new middle school project at a local debt share amount of \$61.3 million. There is a column on the far right that has the yearly average household property tax impact.

Given that the project will be completed in 2028 and the final debt package will be secured after that date, the following information provides yearly debt exclusion cost reduction to the average homeowner for projects that will be paid off in the next couple of years:

- Clinton Elementary School \$40.33/yr paid on 5/1/25
- Rauscher Farm Open Space \$24.20/yr paid on 5/1/28
- Senior Center Renovation \$12.10/yr paid on 5/1/28

*The remaining debt exclusion costs on the books will be paid off in 2030 & 2031.



40 YEAR BORROWING TAX IMPACT:



Town of Clinton, Massachusetts

\$61,300,000 General Obligation Middle School Bonds dated June 1, 2025

Assumes 40 Years, Level Debt

Interest Estimated at 5.25% - Subject to Change

										Reside	ntial Tax
								Comm	ercial/	Rate In	npact for
						Reside	ntial Tax	Industrial/	Personal	Averag	ge Single
						Rate In	npact per	Property	Tax Rate	Famil	y Home
				Esti	mated Total	\$1,0	000 of	Impact per	\$1,000 of	Valu	ued at
Fiscal Year	_	Principal	 Interest	De	ebt Service	Assessed	d Value (1)	Assessed	Value (1)	\$403,	,286 (1)
2026	\$	475,000	\$ 3,218,250	\$	3,693,250	\$	1.52	\$	2.52	\$	611.44
2027		505,000	3,193,313		3,698,313		1.52		2.52		612.28
2028		530,000	3,166,800		3,696,800		1.52		2.52		612.03
2029		555,000	3,138,975		3,693,975		1.52		2.52		611.56
2030		585,000	3,109,838		3,694,838		1.52		2.52		611.70
2031		615,000	3,079,125		3,694,125		1.52		2.52		611.58
2032		650,000	3,046,838		3,696,838		1.52		2.52		612.03
2033		685,000	3,012,713		3,697,713		1.52		2.52		612.18
2034		720,000	2,976,750		3,696,750		1.52		2.52		612.02
2035		755,000	2,938,950		3,693,950		1.52		2.52		611.56
2036		795,000	2,899,313		3,694,313		1.52		2.52		611.62
2037		840,000	2,857,575		3,697,575		1.52		2.52		612.16
2038		880,000	2,813,475		3,693,475		1.52		2.52		611.48
2039		930,000	2,767,275		3,697,275		1.52		2.52		612.11
2040		975,000	2,718,450		3,693,450		1.52		2.52		611.47
2041		1,030,000	2,667,263		3,697,263		1.52		2.52		612.10
2042		1,080,000	2,613,188		3,693,188		1.52		2.52		611.43
2043		1,140,000	2,556,488		3,696,488		1.52		2.52		611.98
2044		1,200,000	2,496,638		3,696,638		1.52		2.52		612.00
2045		1,260,000	2,433,638		3,693,638		1.52		2.52		611.50
2046		1,330,000	2,367,488		3,697,488		1.52		2.52		612.14
2047		1,400,000	2,297,663		3,697,663		1.52		2.52		612.17
2048		1,470,000	2,224,163		3,694,163		1.52		2.52		611.59
2049		1,550,000	2,146,988		3,696,988		1.52		2.52		612.06
2050		1,630,000	2,065,613		3,695,613		1.52		2.52		611.83
2051		1,715,000	1,980,038		3,695,038		1.52		2.52		611.74
2052		1,805,000	1,890,000		3,695,000		1.52		2.52		611.73
2053		1,900,000	1,795,238		3,695,238		1.52		2.52		611.77
2054		2,000,000	1,695,488		3,695,488		1.52		2.52		611.81
2055		2,105,000	1,590,488		3,695,488		1.52		2.52		611.81
2056		2,215,000	1,479,975		3,694,975		1.52		2.52		611.73
2057		2,330,000	1,363,688		3,693,688		1.52		2.52		611.51
2058		2,455,000	1,241,363		3,696,363		1.52		2.52		611.96
2059		2,585,000	1,112,475		3,697,475		1.52		2.52		612.14
2050		2,720,000	976,763		3,696,763		1.52		2.52		612.02
2061		2,860,000	833,963		3,693,963		1.52		2.52		611.56
2062		3,010,000	683,813		3,693,813		1.52		2.52		611.53
2063		3,170,000	525,788		3,695,788		1.52		2.52		611.86
2064		3,335,000	359,363		3,694,363		1.52		2.52		611.62
2065		3,510,000	 184,275		3,694,275		1.52		2.52		611.61
	\$	61,300,000	\$ 86,519,475	\$	147,819,475						

(1) Based on FY2024 assessed values and assumes no growth in assessed value.

30 YEAR BORROWING TAX IMPACT:



Town of Clinton, Massachusetts

\$61,300,000 General Obligation Middle School Bonds dated June 1, 2025

Assumes 30 Years, Level Debt

Interest Estimated at 4.25% - Subject to Change

						Residential Tax
					Commercial/	Rate Impact for
				Residential Tax	Industrial/ Personal	Average Single
				Rate Impact per	Property Tax Rate	Family Home
Fiscal			Estimated Total	\$1,000 of	Impact per \$1,000 of	Valued at
Year	Principal	Interest	Debt Service	Assessed Value (1)	Assessed Value (1)	\$403,286 (1)
2026	\$ 1,050,000	\$ 2,605,250	\$ 3,655,250	\$ 1.50	\$ 2.49	\$ 605.15
2027	1,095,000	2,560,625	3,655,625	1.50	2.49	605.21
2028	1,140,000	2,514,088	3,654,088	1.50	2.49	604.96
2029	1,190,000	2,465,638	3,655,638	1.50	2.49	605.21
2030	1,240,000	2,415,063	3,655,063	1.50	2.49	605.12
2031	1,290,000	2,362,363	3,652,363	1.50	2.49	604.67
2032	1,345,000	2,307,538	3,652,538	1.50	2.49	604.70
2033	1,405,000	2,250,375	3,655,375	1.50	2.49	605.17
2034	1,465,000	2,190,663	3,655,663	1.50	2.49	605.22
2035	1,525,000	2,128,400	3,653,400	1.50	2.49	604.84
2036	1,590,000	2,063,588	3,653,588	1.50	2.49	604.87
2037	1,655,000	1,996,013	3,651,013	1.50	2.49	604.45
2038	1,725,000	1,925,675	3,650,675	1.50	2.49	604.39
2039	1,800,000	1,852,363	3,652,363	1.50	2.49	604.67
2040	1,875,000	1,775,863	3,650,863	1.50	2.49	604.42
2041	1,955,000	1,696,175	3,651,175	1.50	2.49	604.47
2042	2,040,000	1,613,088	3,653,088	1.50	2.49	604.79
2043	2,125,000	1,526,388	3,651,388	1.50	2.49	604.51
2044	2,215,000	1,436,075	3,651,075	1.50	2.49	604.46
2045	2,310,000	1,341,938	3,651,938	1.50	2.49	604.60
2046	2,410,000	1,243,763	3,653,763	1.50	2.49	604.90
2047	2,510,000	1,141,338	3,651,338	1.50	2.49	604.50
2048	2,620,000	1,034,663	3,654,663	1.50	2.49	605.05
2049	2,730,000	923,313	3,653,313	1.50	2.49	604.83
2050	2,845,000	807,288	3,652,288	1.50	2.49	604.66
2051	2,965,000	686,375	3,651,375	1.50	2.49	604.51
2052	3,095,000	560,363	3,655,363	1.50	2.49	605.17
2053	3,225,000	428,825	3,653,825	1.50	2.49	604.91
2054	3,360,000	291,763	3,651,763	1.50	2.49	604.57
2055	3,505,000	148,963	3,653,963	1.50	2.49	604.94
	\$ 61,300,000	\$ 48,293,813	\$ 109,593,813			

(1) Based on FY2024 assessed values and assumes no growth in assessed value.

25 YEAR BORROWING TAX IMPACT:



Town of Clinton, Massachusetts

\$61,300,000 General Obligation Middle School Bonds dated June 1, 2025

Assumes 25 Years, Level Debt

Interest Estimated at 4.00% - Subject to Change

											Resid	ential Tax
									Comme	ercial/	Rate I	mpact for
							Reside	ential Tax	Industrial/	Personal	Avera	age Single
							Rate In	npact per	Property	Tax Rate	Fam	ily Home
					Est	imated Total	\$1,0	000 of	Impact per	\$1,000 of	Va	lued at
Fiscal Year		Principal		Interest	D	ebt Service	Assesse	d Value (1)	Assessed Value (1)		\$403,286 (1)	
2026	\$	1,470,000	\$	2,452,000	\$	3,922,000	\$	1.61	\$	2.67	\$	649.31
2027		1,530,000		2,393,200		3,923,200		1.61		2.67		649.51
2028		1,595,000		2,332,000		3,927,000		1.61		2.68		650.14
2029		1,655,000		2,268,200		3,923,200		1.61		2.67		649.51
2030		1,720,000		2,202,000		3,922,000		1.61		2.67		649.31
2031		1,790,000		2,133,200		3,923,200		1.61		2.67		649.51
2032		1,865,000		2,061,600		3,926,600		1.61		2.68		650.07
2033		1,935,000		1,987,000		3,922,000		1.61		2.67		649.31
2034		2,015,000		1,909,600		3,924,600		1.61		2.67		649.74
2035		2,095,000		1,829,000		3,924,000		1.61		2.67		649.64
2036		2,180,000		1,745,200		3,925,200		1.61		2.67		649.84
2037		2,265,000		1,658,000		3,923,000		1.61		2.67		649.48
2038		2,355,000		1,567,400		3,922,400		1.61		2.67		649.38
2039		2,450,000		1,473,200		3,923,200		1.61		2.67		649.51
2040		2,550,000		1,375,200		3,925,200		1.61		2.67		649.84
2041		2,650,000		1,273,200		3,923,200		1.61		2.67		649.51
2042		2,755,000		1,167,200		3,922,200		1.61		2.67		649.34
2043		2,870,000		1,057,000		3,927,000		1.61		2.68		650.14
2044		2,980,000		942,200		3,922,200		1.61		2.67		649.34
2045		3,100,000		823,000		3,923,000		1.61		2.67		649.48
2046		3,225,000		699,000		3,924,000		1.61		2.67		649.64
2047		3,355,000		570,000		3,925,000		1.61		2.67		649.81
2048		3,490,000		435,800		3,925,800		1.61		2.67		649.94
2049		3,630,000		296,200		3,926,200		1.61		2.68		650.01
2050		3,775,000		151,000		3,926,000		1.61		2.68		649.97
	Ś	61.300.000	Ś	36.801.400	Ś	98.101.400						

(1) Based on FY2024 assessed values and assumes no growth in assessed value.





4.1.2 SCHEMATIC DESIGN BINDER A. Introduction 3. Visual Aids a. Site Plan

1	Entry Plaza with Raised Crossing
2	Parking Lot 124 Total Spaces, Including 6 ADA Spaces, 7 EV Spaces
3	Playground (Fenced)
4	Outdoor Classroom with Perimeter Ornamental Fencing
5	Rain Garden
6	Raised Planters for Community Gardens
7	Basketball Court (2)
8	Boardwalk through Rain Garden
9	Emergency Access Vehicular Gate
10	Loading and Service Area
1	Multi Purpose Field
12	Area for Movable Bleachers
13	Raised Table for Pedestrian Crossing
14	Flexible Greenspace for PE Classes
15	Outdoor Dining Plaza
16	Digital Entrance Sign
	Bus Pick Up/Drop Off
0	Parent Pick Up/Drop Off
	EV Parking
40	9



7





4.1.2 SCHEMATIC DESIGN BINDER A. Introduction 3. Visual Aids b. Floor Plans



- CORE FACILITY
- ADMINISTRATION
- **BUILDING SERVICE**
- ACADEMIC
- - CIRCULATION





4.1.2 SCHEMATIC DESIGN BINDER A. Introduction 3. Visual Aids b. Floor Plans



- CORE FACILITY
- ADMINISTRATION
- **BUILDING SERVICE**
- ACADEMIC
- - CIRCULATION





4.1.2 SCHEMATIC DESIGN BINDER A. Introduction 3. Visual Aids c. Elevation/Massing Model













4.1.2 SCHEMATIC DESIGN BINDER A. Introduction 3. Visual Aids c. Elevation/Massing Model



















4.1.2 SCHEMATIC DESIGN BINDER A. Introduction 3. Visual Aids c. Elevation/Massing Model





LPA Architects







4.1.2 SCHEMATIC DESIGN BINDER A. Introduction 3. Visual Aids c. Elevation/Massing Model





























LPA Architects







4.1.2 SCHEMATIC DESIGN BINDER A. Introduction 3. Visual Aids c. Elevation/Massing Model



































LPA Architects



MSBA Module 4









LPA Architects






4.1.2 SCHEMATIC DESIGN BINDER A. Introduction 3. Visual Aids d. Interior Renderings



Clinton Middle School



LPA Architects

4.1.2 SCHEMATIC DESIGN BINDER A. Introduction 3. Visual Aids d. Interior Renderings



Clinton Middle School

MSBA Module 4 Schematic Design



LPA Architects

4.1.2 SCHEMATIC DESIGN BINDER A. Introduction 3. Visual Aids d. Interior Renderings



MSBA Module 4 Schematic Design





4.1.2 SCHEMATIC DESIGN BINDER A. Introduction 3. Visual Aids d. Interior Renderings



MSBA Module 4 Schematic Design





4.1.2 SCHEMATIC DESIGN BINDER A. Introduction 3. Visual Aids d. Interior Renderings



Clinton Middle School



Deborah B. Goldberg *Chair, State Treasurer* James A. MacDonald Chief Executive Officer

Mary L. Pichetti *Executive Director / Deputy CEO*

August 30, 2023

Mr. Michael J. Ward, Town Administrator Town of Clinton 242 Church Street Clinton, MA 01510

Re: Town of Clinton, Clinton Middle School

Dear Mr. Ward:

I am pleased to report that the Board of the Massachusetts School Building Authority (the "MSBA") has voted to approve the Town of Clinton (the "Town"), as part of its invitation for Feasibility Study, to proceed into Schematic Design to replace the existing Clinton Middle School with a new facility serving grades 4 through 8 on the existing site (the "proposed project").

Please note, in the future, if the Board approves a Project Scope and Budget Agreement and a Project Funding Agreement, the Board's vote will be contingent upon the Town meeting the MSBA requirements for ownership, control and use of the proposed site, unless met prior to such vote.

It is my understanding that the Town anticipates seeking community approval for this proposed project in April 2024. Therefore, it is critical that the Town in conjunction with its Owner's Project Manager and Designer, submit a schedule to the MSBA as soon as possible, which should include: the work plan to complete all of the required documentation for presentation to the MSBA's Board of Directors at a future Board meeting; the date of the Town Meetings at which the proposed project will be considered; and the anticipated design and construction schedule.

We will be contacting you soon to discuss these next steps in more detail, but in the meantime, I wanted to share with you the Board's vote to approve the Town of Clinton to proceed into Schematic Design to replace the existing Clinton Middle School with a new facility serving grades 4 through 8 on the existing site.

I look forward to continuing to work with you as the MSBA's grant program progresses. As always, feel free to contact me or my staff at (617) 720-4466 should you have any questions.

Page 2 August 30, 2023 Clinton Middle School Preferred Schematic Board Action Letter

Sincerely,

Mary Cicletto

Mary L. Pichetti Executive Director

 Cc: Legislative Delegation Matthew H. Kobus, Chair, Clinton Select Board Brendan Bailey, Chair, Clinton School Committee Dr. Steven Meyer, Superintendent, Clinton Public Schools Trip Elmore, Owner's Project Manager, Dore & Whittier Management Partners, LLC Kathryn Crockett, Designer, Lamoureux Pagano Associates, Architects File: 10.2 Letters (Region 2) This document has been updated by LPA|A with comments for the purpose of preparing a coordinated response from the District, OPM, and LPA|A. Responses to comments are in red below.

ATTACHMENT A MODULE 3 – PREFERRED SCHEMATIC REPORT REVIEW COMMENTS

District: Town of Clinton School: Clinton Middle School Owner's Project Manager: Dore & Whittier Management Partners, Inc. Designer Firm: Lamoureux Pagano Associates | Architects, Inc. Submittal Due Date: June 27, 2023 Submittal Received Date: June 27, 2023 Review Date: June 27, 2023 – July 12, 2023 Reviewed by: V. Dagkalakou, C. Forde, J. Jumpe

MSBA REVIEW COMMENTS

The following comments¹ on the Preferred Schematic Report ("PSR") submittal are issued pursuant to a review of the project submittal document for the proposed project presented as a part of the Feasibility Study submission in accordance with the MSBA Module 3 Guidelines.

3.3 PREFERRED SCHEMATIC REPORT

Overview of Preferred Schematic Submittal	Complete	Provided; Refer to comments following each section	Not Provided; Refer to comments following each section	Receipt of District's Response; To be filled out by MSBA Staff
OPM Certification of Completeness and Conformity	\boxtimes			
Table of Contents	\boxtimes			
3.3.1 Introduction	\boxtimes			
3.3.2 Evaluation of Existing Conditions		\boxtimes		
3.3.3 Final Evaluation of Alternatives		\boxtimes		
3.3.4 Preferred Solution		\boxtimes		
3.3.5 Local Actions and Approval Certification		\boxtimes		

¹ The written comments provided by the MSBA are solely for purposes of determining whether the submittal documents, analysis process, proposed planning concept and any other design documents submitted for MSBA review appear consistent with the MSBA's guidelines and requirements, and are not for the purpose of determining whether the proposed design and its process may meet any legal requirements imposed by federal, state or local law, including, but not limited to, zoning ordinances and by-laws, environmental regulations, building codes, sanitary codes, safety codes and public procurement laws or for the purpose of determining whether the proposed design and process meet any applicable professional standard of care or any other standard of care. Project designers are obligated to implement detailed planning and technical review procedures to effect coordination of design criteria, buildability, and technical adequacy of project concepts. Each city, town and regional school district shall be solely responsible for ensuring that its project development concepts comply with all applicable provisions of federal, state, and local law. The MSBA recommends that each city, town and regional school district have its legal counsel review its development process and subsequent bid documents to ensure that it is in compliance with all provisions of federal, state and local law, prior to bidding. The MSBA shall not be responsible for any legal fees or costs of any kind that may be incurred by a city, town or regional school district in relation to MSBA requirements or the preparation and review of the project's planning process or plans and specifications.

3.3.1 INTRODUCTION

	Provide the following Items	Complete; No response required	Provided; District's response required	Not Provided; District's response required	Receipt of District's Response; To be filled out by MSBA Staff
1	Overview of the process undertaken since submittal of the Preliminary Design Program that concludes with submittal of the Preferred Schematic Report, including any new information and changes to previously submitted information	\boxtimes			
2	Summary of updated project schedule, including				
	a) Projected MSBA Board of Directors Meeting for approval of Project Scope and Budget Agreement	\boxtimes			
	b) Projected Town/City vote for Project Scope and Budget Agreement	\boxtimes			
	c) Anticipated start of construction	\boxtimes			
	d) Target move in date	\boxtimes			
3	Summary of the final evaluation of existing conditions	\boxtimes			
4	Summary of final evaluation of alternatives	\boxtimes			
5	Summary of District's preferred solution	\boxtimes			
6	A copy of the MSBA Preliminary Design Program project review and corresponding District response	\boxtimes			

MSBA Review Comments:

No review comments for this section.

3.3.2 EVALUATION OF EXISTING CONDITIONS

Provide the following Items		Complete; No response required	Provided; District's response required	Not Provided; District's response required	Receipt of District's Response; To be filled out by MSBA Staff
1	A narrative of any changes resulting from new information that informs the conclusions of the evaluation of the existing conditions and its impact on the final evaluation of alternatives		X		
2	If changes are substantive, provide an updated Evaluation of Existing Conditions and identify as final. Identify additional testing that is recommended during future phases of the proposed project and indicate when the investigations and analysis will be completed		\boxtimes		

MSBA Review Comments:

1) In response to these review comments, please provide a narrative that describes the potential impact remaining existing conditions site work may have on the conceptual design.

District Response: The PDP reference to unsuitable existing soils pertain to the 1996 test borings in, and immediately east of, the high school building footprint; these borings indicated substantial layers of fill and organic materials.

As noted in the PDP, the 1954 geotechnical exploration program consisted of eight (8) test borings advanced to depths of between 16–42'. These borings were located to the east of the existing middle school on what is currently baseball/softball fields (which is also the location of the proposed new middle school). The existing boring logs indicate that the material encountered in this area was primarily compact sand and gravel with some boulders and fill.

Accordingly, LPA|A does not believe there are significant deposits or layers of unsuitable soils in the proposed building area. With that said, LPA|A acknowledges that there may be isolated areas of unsuitable soils between the existing 1954 test borings and recommends that the Schematic Design cost estimate design contingency include the cost of removing/replacing minor amounts of unsuitable materials.

LPA|A also recommends that a more comprehensive subsurface geotechnical exploration program, in the areas of the proposed building footprint and site infrastructure, be conducted during the early Design Development phase in June 2024.

The potential impact to the design is that areas of unsuitable soils would need to be removed and replaced with compacted structural fill. Additionally, there may be an impact on the structural design of foundations/footings.

2) The information provided states:

"A geotechnical exploration program, including test pits/borings located at the existing Clinton Middle School site as recommended by the geotechnical engineer and based on the District's Preferred Solution, is proposed during the SD phase. Based on information on the high school and middle school construction documents previously provided by the Town, the understanding is that there may be poor soil conditions that will need to be further evaluated".

Additionally, the information provided states:

"The Town of Clinton continues to work with National Grid (NGRID) to record a previous land swap on the existing middle school property relative to overhead electric transmission lines that were relocated to accommodate the construction of the middle school in 1976. The Town's continued understanding is that the formal recording of the deed is not expected to impact the project timeline".

Furthermore, a letter was provided from the Town Administrator regarding this matter that states: "It is anticipated that these documents will be finalized and officially recorded by the end of summer".

In response to these review comments, incorporate the timeline associated with completing the work identified above into the overall project schedule. Also, please note and acknowledge that all cost increases subsequent to a Project Scope and Budget Approval from the MSBA's Board of Directors will be the sole responsibility of the District and considered ineligible for reimbursement. District Response: Acknowledged. Refer to Attachment 4 for a copy of the updated project schedule and Attachment 5 for an updated letter from the Town relative to the deed recording process.

No further review comments for this section.

3.3.3 FINAL EVALUATION OF ALTERNATIVES

Include at least three potential alternatives, with at least one renovation and/or addition option. Include the following for each alternative where appropriate:

	Provide the following Items	Complete; No response required	Provided; District's response required	Not Provided; District's response required	Receipt of District's Response; To be filled out by MSBA Staff
1	An analysis of each prospective site including:				
	a) Natural site limitations	\boxtimes			
	b) Building footprint(s)	\boxtimes			
	c) Athletic fields	\boxtimes			
	d) Parking areas and drives	\boxtimes			
	e) Bus and parent drop-off areas				
	f) Site access and surrounding site features.				
2	Evaluation of the potential impact that construction of each option will have on students and measures recommended to mitigate impact		\boxtimes		
3	Conceptual architectural and site drawings that satisfy the requirements of the education program	\boxtimes			
4	An outline of the major building structural systems	\boxtimes			
5	5 The source, capacities, and method of obtaining all utilities		\boxtimes		
6	A narrative of the major building systems		\boxtimes		
7	A proposed total project budget and a construction cost estimate using the Uniformat II Elemental Classification format (to as much detail as the drawings and descriptions permit, but no less than Level 2)		\boxtimes		

	Provide the following Items	Complete; No response required	Provided; District's response required	Not Provided; District's response required	Receipt of District's Response; To be filled out by MSBA Staff
8	Permitting requirements and associated approval schedule		\boxtimes		
9	Proposed project design and construction schedule including consideration of phasing	\boxtimes			
10	Completed Table 1 – MSBA Summary of Preliminary Design Pricing spreadsheet	\boxtimes			

MSBA Review Comments:

As part of the PSR submittal the District explored the following (9) options.

- Option BR: Code Upgrade/Base Repair for grades 5-8 with an enrollment of 550 students at the existing Clinton Middle School.
- *Option AR-1 (550):* Addition/Renovation (1-story addition) for grades 5-8 with an enrollment of 550 students at the existing Clinton Middle School.
- **Option AR-1 (700):** Addition/Renovation (1-story addition) for grades 4-8 with an enrollment of 700 students at the existing Clinton Middle School.
- *Option AR-1.5 (550):* Addition/Renovation (2-story addition) for grades 5-8 with an enrollment of 550 students at the existing Clinton Middle School.
- **Option AR-1.5 (700):** Addition/Renovation (2-story addition) for grades 4-8 with an enrollment of 700 students at the existing Clinton Middle School.
- **Option AR-2 (550):** Addition/Renovation (2-story addition) for grades 5-8 with an enrollment of 550 students at the existing Clinton Middle School.
- **Option AR-2 (700):** Addition/Renovation (1-story addition) for grades 4-8 with an enrollment of 700 students at the existing Clinton Middle School.
- **Option NC-1 (550):** New Construction for grades 5-8 with an enrollment of 550 students at the existing Clinton Middle School site, at Softball Fields.
- Option NC-1 (700): New Construction for grades 4-8 with an enrollment of 700 students at the existing Clinton Middle School site, at Softball Fields. (District's Preferred Schematic).

2) As part of the schematic design documents provide further detail that clearly describes and illustrates the separation, safety provisions, and possible construction laydown areas that will be applied during construction for the Preferred Schematic. Please acknowledge.

District Response: This will be addressed as part of the Schematic Design Submission.

5) In response to these review comments, provide the timeline associated with conducting a hydrant flow test, confirm that the test results will inform the scope of work proposed in the schematic design phase, and confirm costs will be accounted for in the District's proposed total project budget. District Response: LPA|A confirms that the flow test will be conducted by 12/1/2023, and the results will inform the scope of work proposed for the SD phase.

6) The information provided references a Building Management System ("BMS"). In response to these review comments, confirm that building and District facilities, maintenance, and custodial personnel have been included in discussions regarding the following items:

- The selection and long-term operational and maintenance costs of the BMS and mechanical systems; and,
- That the training program will be coordinated with the District's facility, maintenance, and custodial staff and will include sufficient training hours to learn how to operate the proposed BMS before the opening of the proposed project as well as hours post turnover.

District Response: LPA confirms that this will be reviewed in greater detail during SD.

7) As part of the schematic design documents, please provide the following:

- *Identify estimated cost associated with removal of any existing fuel storage tanks;*
- Complete the "CSI" tab within the MSBA's total project budget spreadsheet; and,
- If add/deduct construction alternates are proposed, please complete the "Alternates" tab within the MSBA's total project budget spreadsheet detailing the cost and the rationale associated with each alternate. Please acknowledge.

District Response: Acknowledged; this will be provided in the SD submission.

8) As part of the schematic design documents, please provide an updated project schedule that includes the timeline for all the permitting requirements with the anticipated filing dates and approval dates for the Preferred Schematic. Please acknowledge.

District Response: Acknowledged; this will be provided in the SD submission.

Also, please note and acknowledge that all permitting requirements and approvals must be obtained prior to construction bidding.

District Response: Acknowledged.

No further review comments for this section.

3.3.4 PREFERRED SOLUTION

	Provide the following Items	Complete; No response required	Provided; District's response required	Not Provided; District's response required	Receipt of District's Response; To be filled out by MSBA Staff
1	Educational Program				
	a) Summary of key components and how the preferred solution fulfills the educational program			\boxtimes	
	 b) Design responses including desired features and/or layout considerations 	\boxtimes			
	c) Proposed variances to, and benefits of, any changes to the current grade configuration (if any) and a related transition plan			\boxtimes	
2	Preferred Solution Space Summary				

	Provide the following Items	Complete; No response required	Provided; District's response required	Not Provided; District's response required	Receipt of District's Response; To be filled out by MSBA Staff
	a) Updated MSBA Space Summary spreadsheet		\boxtimes		
	b) Itemization and explanation of variations from the initial space summary (and MSBA review) included in the Preliminary Design Program	\boxtimes			
3	Preliminary NE-CHPS or LEED-S scorecard		\times		
4	Conceptual floor plans of the preferred solution, in color that are clearly labeled to identify educational spaces		\boxtimes		
5	Clearly labeled site plans of the preferred solution including, but not limited to:				
	a) Structures and boundaries	\boxtimes			
	b) Site access and circulation	\boxtimes			
	c) Parking and paving	\boxtimes			
	d) Zoning setbacks and limitations			\boxtimes	
	e) Easements and environmental buffers			\boxtimes	
	f) Emergency vehicle access			\boxtimes	
	g) Safety and security features			\boxtimes	
	h) Utilities	\boxtimes			
	i) Athletic fields and outdoor educational spaces (existing and proposed)		\boxtimes		
	j) Site orientation	\boxtimes			
6	An overview of the Total Project Budget and local funding including the following:				
	a) Estimated total construction cost	\boxtimes			
	b) Estimated total project cost	\boxtimes			
	c) Estimated funding capacity	\boxtimes			
	d) List of other municipal projects currently planned or in progress	\square			
	e) District's not-to-exceed Total Project Budget		\boxtimes		
	 f) Brief description of the local process for authorization and funding of the proposed project 		\boxtimes		
	g) Estimated impact to local property tax, if applicable		\boxtimes		
	h) Completed MSBA Budget Statement	\square			
7	Updated Project Schedule including the following projected dates:				

Provide the following Items	Complete; No response required	Provided; District's response required	Not Provided; District's response required	Receipt of District's Response; To be filled out by MSBA Staff
a) Massachusetts Historical Commission Project Notification Form			\boxtimes	
 b) MSBA Board of Directors meeting for approval to proceed into Schematic Design 	\boxtimes			
 MSBA Board of Directors meeting for approval of project scope and budget agreement and project funding agreement 	X			
d) Town/City vote for project scope and budget agreement	\boxtimes			
e) Design Development submittal date	\boxtimes			
 f) MSBA Design Development Submittal Review (include required 21-day duration) 	\boxtimes			
g) 60% Construction Documents submittal date	\boxtimes			
h) MSBA 60% Construction Documents Submittal Review (include required 21-day duration)	\boxtimes			
i) 90% Construction Documents submittal date	\boxtimes			
j) MSBA 90% Construction Documents Submittal Review (include required 21-day duration)	\boxtimes			
k) Anticipated bid date/GMP execution date	\boxtimes			
1) Construction start	\boxtimes			
m) Move-in date	\boxtimes			
n) Substantial completion	\boxtimes			

MSBA Review Comments:

1a) Not provided. In response to these review comments, please provide a summary of the key components and how the preferred solution fulfills the educational program.

District Response: Below is an outline of the key features of the preferred solution that fulfill the required educational program:

- The building layout allows for separation of the "public" or community use areas from the "private" or academic use areas, so that the community can securely utilize the building after school hours. Shared public spaces include the Gymnasium, cafeteria, stage, and media center.
- 2. The building layout provides adequate separation between the grades 4–6 neighborhoods, and the grade 7 and 8 neighborhoods, effectively limiting crossover between the youngest and the oldest students.

- 3. The building layout provides distinct grade level neighborhoods for Grades 4, 5 and 6, equipped with sets of adjoining team-teaching classrooms, small group/resource rooms, special education support spaces and collaborative work areas.
- 4. The preferred solution layout provides two 7–8 grade neighborhoods, one for STEM and one for Humanities.
- 5. The design and location of the main administration suite provides for a secure entry sequence in alignment with district security protocols.
- 6. The preferred solution provides opportunities for all the site program requirements to be met, including outdoor learning, athletic and play fields, and safe site circulation.

Ic) Not provided. In response to these review comments, provide proposed variances to, and benefits of, any changes to the current grade configuration and a related transition plan.
District Response: Refer to Attachment 2 for the requested Grade configuration documents. The letter from Steven Meyer dated March 7, 2023, outlines the various benefits of the proposed grade 4–8 configuration.

Clinton Public Schools last transitioned a grade in 2018 when the 4th grade was moved to CES due to the overcrowding in CMS. Once the building project is approved, CPS would start the transition process for moving the 4th grade back to CMS. Typically, this process starts by identifying teachers who would need to be transferred and informing them of this change. Then typically any teacher who felt it was a hardship to switch buildings could meet with the superintendent so that we can identify the best possible team to move. Additionally, each year there are step-up events held with the transitioning students at the end of the year, we would incorporate two grades in these events the year before the transition, even if that meant having to hold them over the summer due to occupancy restrictions.

2a) Please refer to "Attachment B" for detailed review comments. **District Response: Refer to Attachment B for district responses to detailed review comments.**

3) The information provided in the sustainability narrative states that the District intends to achieve the 4% additional reimbursement using the (new) 2023 version of the MSBA Green Schools Program, although section 3.3.3 D.1 "Updated Basis of Design Narratives: Sustainability" states a goal of 2% using the (previous) 2022 Green Schools Program. Per Project Advisory 81, the Clinton Middle School project will be required to comply with the new 2023 MSBA Green Schools policy. Refer to the Board memorandum linked in Project Advisory 81 for more information regarding the 2023 Green Schools Program requirements. Please acknowledge.

District Response: Acknowledged. This will be clarified in the SD submission.

Additionally, the MSBA notes that compliance with the MSBA Green Schools policy is based on the energy code current at the time of the Schematic Design submittal, and the version of LEED or NE-CHPS used for project registration. Also, the MSBA notes that a 10th edition of the Massachusetts Building Code based on the 2021 IBC and 2021 IECC (including any MA amendments) is currently scheduled to take effect in 2023. The Massachusetts "Stretch" energy code is scheduled to have significant revisions after July 1, 2023 (Please note the Town of Clinton is a "Stretch" code community). In response to these review comments, the design team should review the project's anticipated permit date based on the project schedule and verify coordination with the code analysis and all systems basis of design in subsequent phases.

District Response: The Clinton Middle School project is anticipated to apply for a permit in 2025, and therefore will be permitted under the revised Stretch energy code revisions introduced in July 2023. Though the Town of Clinton is a "stretch" code community, currently the Town of Clinton has not submitted any town meeting warrants for the town to vote to adopt the specialized opt-in code. Code analyses and basis of design narratives will be updated for the SD submission.

As noted above, the information provided in the sustainability narrative states that the District intends to achieve the 4% additional reimbursement using the (new) 2023 version of the MSBA Green Schools Program. In addition to achieving the higher number of Indoor Air Quality points in the LEED scorecard (which the submitted LEED scorecard appears to indicate), the project must comply with the new 2023 "Opt-in Specialized" energy code. In the response to this review, provide the following:

- 1) describe the "compliance pathway" in the Specialized code intended for this project;
- *2) describe the proposed methods and systems used to meet that targeted compliance pathway;*
- *3)* provide updated architectural / mechanical / electrical / plumbing / sustainability design narratives that support those goals;
- 4) confirm that the subsequent Project Scope and Budget submittal will be fully developed and coordinated to support that additional 4% additional reimbursement with the 2023 Green Schools Program.

District Response: The design team has already held several meetings with our Sustainability, Mechanical, and Electrical consultants, and the Owner to discuss the impacts of the new 2023 MSBA Green Schools Program and the 2023 Energy Code revisions. Throughout Schematic Design the project team will continue to analyze the methodology, feasibility, and cost associated with meeting the Opt–in Specialized energy code and achieving the additional 4% MSBA reimbursement. Updated architectural / mechanical / electrical / plumbing / sustainability design narratives that reflect the determined approach will be provided in the Schematic Design Submission.

4) In response to these review comments, provide interior circulation diagrams that illustrate how students will:

- *transition into the school from the drop off areas;*
- transition from the classrooms to the cafeteria; and,
- *exit the school at time of dismissal.*

District Response: Please refer to Attachment 3 for the requested circulation diagrams.

Also, provide the same information for an individual that is physically challenged as the intent is to understand how students will be traveling through the building daily. District Response: Please refer to Attachment 3 for the requested circulation diagrams.

Additionally, if the proposed building is intended to be used by the community, provide a narrative that describes how:

- *the proposed building will be used by the community;*
- *the proposed building will be secured and monitored; and,*
- *the community will enter and use the proposed building.*

District Response: The Educational Program and adjacency diagrams indicate the desire for the proposed building to serve as a Community Center and to separate Public (Community use) zones from Private (Academic use) zones. The interior Public Zone areas that will be used by the Community include the Lobby, Cafeteria/Stage/Kitchen, Gymnasium/Locker Rooms, and Media Center. In addition, outdoor areas such as athletic fields/courts and outdoor learning space(s) will be frequently used by the Community. It is anticipated that Community use of interior/exterior spaces will occur when school is not in session, nights, weekends and vacations.

The building design is intended to allow for locking off the private zone grade 4–8 neighborhoods (including classrooms, common rooms and support spaces) while still providing code-required means of egress from the public zone. This would be accomplished with pairs of doors on magnetic hold-opens at the entry to each neighborhood. During the school day the doors would be held in the open position except for in the event of a fire or lockdown. After hours or on weekends the doors could be closed and locked to limit access to the neighborhoods. Exterior video surveillance cameras will be located so as to monitor entries, exits and public zone areas used by the Community. Outdoor Community use spaces will be secured with fences and gates to deter vandalism and/or unintended uses. Main entries and selected exterior doors will be provided with low site elements to protect them from vehicular intrusion.

It is intended that the Community will enter the building through the same main entry doors used by the student population. The main Vestibule will open into the Lobby, from which all interior Community use spaces can be accessed. The District will have the option to unlock the main entry and vestibule doors for events, or to keep them locked and use a secure entry sequence such as they would use for visitors during school hours. 5d-g) In response to these review comments, please provide site plans that address the following items:

- Zoning setbacks and limitations;
- Easements and environmental buffers, if any;
- *Emergency vehicle access; and,*
- Safety and Security features.

District Response: Refer to Attachment 1 for the documents that were shared with MSBA on July 12th, 2023, in response to MSBA's cursory PSR review comments.

5f) In response to these review comments, please confirm that local emergency representatives have been consulted in the planning process and associated requirements have been incorporated into the Preferred Schematic.

District Response: Confirmed, please refer to meeting minutes in PSR section 3.3.3.D.4 for the Authorities having Jurisdiction Review Meeting narrative. The attendees of this meeting included the Town Building Inspector, Chief of Police, Fire Chief, and Town Administrator.

5i) In response to these review comments, please include information that describes the process including those involved in making decisions associated with incorporating site improvement components such as landscape features, trees, plantings, irrigation, rain gardens, etc. The MSBA encourages the District to include facilities and maintenance personnel responsible for the future care and maintenance of the proposed site components in an effort to fully understand the time, care, and resources required to maintain the intended site features. Please acknowledge.

District Response: Acknowledged. The design and review process, and ultimate maintenance of site features and amenities will occur during the first phase of schematic design now that the preferred solution has been selected. Personnel from the School District facilities and Clinton DPW will be participating in this process.

6e) The information provided states: "The Town's not to exceed Budget is approximately \$150 million." In response to these review comments, please provide a narrative that describes how the project team will remain at or below the estimated total project budget through schematic design and beyond. Also, please note that the MSBA does not calculate a potential grant until the conclusion of schematic design and the District should take caution in communicating as the potential project develops.

District Response: The project team has multiple tools to maintain the balance between facility functions and project budget constraints that can be employed at various stages in the life of a building project. These tools and actions include:

 Early in the planning stages, as noted in the MSBA review comments, we can and have reviewed the square foot requirements represented on the space summary submitted in the PSR. In this case, the team, which includes the District, have begun to look for areas that the design team can reduce square footage to reduce costs.

- 2. In the Design Development phase, and again as a team, identify the ideal balance between initial cost-efficient building MEP system designs and long-term Maintenance and Operating costs, as more than 40% of a project's construction cost is in the MEP scope.
- 3. As is a requirement along with all milestone MSBA submissions, complete value engineering exercises to find cost effective substitutions that do not impact the long-term use and purpose of the building.
- 4. As the drawings are being completed, we will identify any potential items that we can treat as an alternate to differ elements of the work to remain within the project budget on bid day.

We acknowledge that the reimbursement funding grant is calculated at the end of the "schematic Design" phase and is not set until the MSBA Board meeting for the approval of the Project Scope and Budget. For planning and decision-making purposes, all references to the MSBA grant funding are estimates only and will change as the project progresses through the MSBA process.

Additionally, please note that the MSBA updates district reimbursement rates annually and applies the reimbursement in effect at the time the MSBA Board of Directors approves a district's proposed project scope and budget. Please acknowledge. District Response: Acknowledged.

7a) The information provided with the PDP submittal indicated a Project Notification Form ("PNF") would be submitted to the Massachusetts Historical Commission ("MHC") prior to the completion of the Schematic Design submission currently scheduled for February of 2024, please confirm. District Response: Confirmed.

Additionally, in response to these review comments, please provide an updated project schedule that includes the MHC PNF submission timeline.

District Response: Refer to Attachment 1 for the documents that were shared with MSBA on July 12th, 2023, in response to MSBA's cursory PSR review comments.

Furthermore, please note MHC approval is required prior to construction bids. The District should keep the MSBA informed of any decisions and/or proposed actions and should confirm that the proposed project is in conformance with Massachusetts General Law 950, CRM 71.00. In response to these review comments, please provide the timeline associated with filing a PNF with the MHC for review and approval.

District Response: LPA confirms the existing building is not on any historical registry; see the timeline outlined above for filing the PNF prior to the Schematic Design Submission.

No further review comments for this section.

	Provide the following Items	Complete; No response required	Provided; District's response required	Not Provided; District's response required	Receipt of District's Response; To be filled out by MSBA Staff
1	Certified copies of the School Building Committee meeting notes showing specific submittal approval vote language and voting results, and a list of associated School Building Committee meeting dates, agenda, attendees and description of the presentation materials.				
2	Signed Local Actions and Approvals Certification(s):				
	a) Submittal approval certificate	\boxtimes			
	b) Grade reconfiguration and/or redistricting approval certificate (if applicable)		\boxtimes		
3	Provide the following to document approval and public notification of school configuration changes associated with the proposed project:				
	 a) A description of the local process required to authorize a change to the existing grade configuration or redistricting in the district 		\boxtimes		
	 A list of associated public meeting dates, agenda, attendees and description of the presentation materials 		\boxtimes		
	 c) Certified copies of the governing body (e.g. School Building Committee) meeting notes showing specific grade reconfiguration and/or redistricting, vote language, and voting results if required locally 				
	 d) A certification from the Superintendent stating the District's intent to implement a grade configuration or consolidate schools, as applicable. The certification must be signed by the Chief Executive Officer, Superintendent of Schools, and Chair of the School Committee. 				

3.3.5 LOCAL ACTIONS AND APPROVALS

MSBA Review Comments:

1) Please provide a certified copy of the approved meeting minutes as soon as they are available. **District Response: Refer to Attachment 1 and 2 for the documents.**

2b) In response to these review comments, please provide a completed and signed Grade *Reconfiguration Approval Certification that lists the School Committee meetings and public meetings in which the proposed consolidation of the two schools was discussed and approved.* **District Response: Refer to Attachment 1 for the documents.**

3a-d) As previously communicated to the OPM, please provide the information requested in items 3a-d. **District Response: Refer to Attachment 1 and 2 for the documents.**

No further review comments for this section.

Additional Comments:

• The MSBA issues project advisories from time to time, as informational updates for Districts, Owner's Project Managers ("OPM"), and Designers in an effort to facilitate the efficient and effective administration of proposed projects currently pending review by the MSBA. The advisories can be found on the MSBA's website. In response to these review comments, please confirm that the District's consultants have reviewed all project advisories and they have been incorporated into the proposed project as applicable.

District Response: Confirmed.

- The MSBA offers the following information to assist the District and its OPM in completing the total project budget template that is required as part of its Schematic Design submittal.
 - The District must include negotiated costs for OPM and Designer fees for the remainder of the project as part of their Total Project Budget. The fees must be listed separately by the applicable line items that are included in the MSBA's Total Project Budget Template. In response to these review comments, please confirm that the District and its consultants will negotiate fees for the remainder of the project that are to be included in the District's schematic design documents to the MSBA.

District Response: Confirmed.

Regarding Past Projects:

Both the MSBA's enabling legislation, M.G.L. c. 70B, and the MSBA's regulations, 963 CMR 2.00 et seq. specifically, address the issue of past projects. MSBA records show a total MSBA payment of \$2,332,548 on March 2020 for the Clinton Middle School Project #C20003698 completed in December 1998.

Pursuant to these requirements and depending on the School District's ultimate plan for the School, the MSBA may recover a pro-rated portion of the financial assistance that the School District has received for previous renovation grants. The exact amount recovered will be established at the conclusion of the Schematic Design / Total Project Budget phase. Please see the MSBA website to view the MSBA's regulations, statute and closed school bulletin for additional information. District Response: It is the District's understanding that this payment was associated with an SBA project that is over 20 years old and would have no bearing on this project.

End

This document has been updated by LPA|A with comments for the purpose of preparing a coordinated response from the District, OPM, and LPA|A. Responses to comments are in red below.

ATTACHMENT B MODULE 3 – PREFERRED SCHEMATIC SPACE SUMMARY REVIEW

District: Town of Clinton School: Clinton Middle School Owner's Project Manager: Dore & Whittier Management Partners, Inc. Designer Firm: Lamoureux Pagano Associates | Architects, Inc. Submittal Due Date: June 27, 2023 Submittal Received Date: June 27, 2023 Review Date: June 27, 2023 – July 12, 2023 Reviewed by: V. Dagkalakou, C. Forde, J. Jumpe

The Massachusetts School Building Authority (the "MSBA") has completed its review of the proposed space summary of the preferred alternative as produced by Lamoureux Pagano Associates | Architects, and its consultants. This review involved evaluating the extent to which the Clinton Middle School's proposed space summary conforms to the MSBA guidelines and regulations.

The MSBA considers it critical that the Districts and their Designers aggressively pursue design strategies to achieve compliance with the MSBA guidelines for all proposed projects in the new program and strive to meet the gross square footage allowed per student and the core classroom space standards, as outlined in the guidelines. The MSBA also considers its stance on core classroom space critical to its mission of supporting the construction of successful school projects throughout the Commonwealth that meet current and future educational demands. The MSBA does not want to see this critical component of education suffer at the expense of larger or grander spaces that are not directly involved in the education of students.

The following review is based on the submitted new construction project option with an agreed upon design enrollment of 700 students in grades 4-8.

The MSBA review comments are as follows:

Please note and acknowledge that the MSBA has updated its Space Summary Templates document, which should be used in future submittals. Please refer to Project Advisory 82 for additional information.

• **Core Academic** – The District is proposing a total of 36,120 net square feet ("nsf") which exceeds the MSBA guidelines by 50 nsf. The proposed area in this category has decreased by 2,860 nsf since the Preliminary Design Program ("PDP") submittal. The MSBA notes the following spaces are proposed:

- General Classrooms (Grades 4-8) The District is proposing (27) 900 nsf General Classrooms for grades 4-8, totaling 24,300 nsf which is below the MSBA guidelines by (1) classroom and 900 nsf. Based on the grade configuration and the number of classrooms required for each grade, the MSBA does not object to the proposed number of General Classrooms. However, in response to these review comments, please review and respond to the following items:
 - As the project further develops, please note and acknowledge that 850 nsf is the minimum size for all newly constructed General Classrooms in a middle school.

District Response: Acknowledged.

 Confirm that the proposed project will provide a minimum of two sinks in each General Classroom for grades 4-5. Please refer to the attached memo regarding MSBA's Staff Recommendation for 2018 STE Area Guidelines.

District Response: Confirmed, sinks will be provided in grade 4–5 classrooms.

- Small Group Seminar (20-30 seats) The District is proposing (5) 450 nsf Small Group Seminar rooms totaling 2,250 nsf which exceeds MSBA guidelines by (3) rooms and 1,250 nsf. Based on the information provided, the MSBA accepts this variation to the guidelines. No further action required.
- Collaborative Work Area The District is proposing (3) 750 nsf Collaborative Work Areas (for grades 4-5) totaling 2,250 nsf, which exceeds MSBA guidelines. Please note, the MSBA guidelines include a range in classrooms sizes which allows flexibility for districts and designers to provide spaces educational support area either in or outside of the classroom. The proposed program includes (27) 900 nsf General Classrooms, which are 50 nsf less than the upper limit included in the MSBA guidelines. This results in 1,350 nsf that could be allocated to the (1) 450 nsf Teacher Planning Area and the remaining 900 nsf could be allocated to the Collaborative Work Areas exceeding the MSBA guidelines. Please note that the remaining 1,350 nsf associated with the Collaborative Work Areas will be considered ineligible for reimbursement. Please acknowledge.

District Response: The district proposed (27) 900 SF general classrooms as compared to the 28 (950 SF) general classrooms allowed in the MSBA guidelines. The District would like to propose to allocate the 950 SF remainder allocated for general classrooms toward the collaborative work areas. This would result in only 400 NSF considered ineligible for reimbursement.

- Science Classroom / Lab (Grades 7-8) The District is proposing (3) 1,440 nsf Science Classrooms/Labs for grades 7-8 totaling 4,320 nsf which meets the MSBA guidelines. No further action required.
- **Prep Room** The District is proposing (3) 200 nsf Prep Rooms totaling 600 nsf associated with the (3) Science Classrooms/Labs for grades 7-8, which meets the MSBA guidelines. No further action required.
- Central Chemical Storage Room The District is proposing (1) 150 nsf Central Chemical Storage Room, which meets the MSBA guidelines. No further action required.
- Teacher Planning The District is proposing (1) 450 nsf Teacher Planning space, which exceeds the MSBA guidelines. Based on the information provided and the number of proposed general classrooms, the MSBA accepts this variation to the guidelines. No further action required.
- **Health/Wellness Classroom** The District is proposing (1) 900 nsf Health/Wellness Classroom, which exceeds the MSBA guidelines. In response to these review comments, please provide the following information:
 - Describe the anticipated adjacencies.
 - Describe the scheduling and utilization of the proposed areas.
 - Describe how these areas will be supervised and staffed.
 - Provide examples of activities that will occur in these areas.
 - Please note that the District must fully describe the function, intended users and scheduling of this space.
 - Please relocate the Health Classroom to the "Other" category to align with the new Space Summary template.

District Response: Health education is part of the Wellness curriculum. While taking wellness, the assigned location of the class may vary depending on if it is a PE day or a health day. The Health/Wellness classroom will be utilized for a minimum of 5 periods throughout the school day, and will serve all students in grades 4–8 for one trimester of the school year. The health classroom would be shared by both PE teachers and all students would receive their health instruction in this space. The health classroom should be located close to the Gymnasium, OT/PT and Executive Functioning Classroom, as there is an opportunity for shared staff, equipment and storage space. The Health/Wellness classrooms will be staffed by the (2) full time Physical Education teachers who will use the classroom for teaching the state comprehensive health curriculum framework in an educational setting. This is different than the physical education components. Typically while one teacher is using the gym, the other would be able to use the classroom and they would switch daily. This Health/Wellness classroom will be relocated to the "Other" Category for the SD submission.

- **Executive Functioning** The District is proposing (1) 900 nsf Executive Functioning space, which exceeds the MSBA guidelines. In response to these review comments, please provide the following information:
 - Describe the anticipated adjacencies.
 - Describe the scheduling and utilization of the proposed areas.
 - Describe how these areas will be supervised and staffed.
 - Provide examples of activities that will occur in these areas.
 - Please note that the District must fully describe the function, intended users and scheduling of this space.

District Response: Refer to the following excerpt from page 26 of the Educational Program document included in the PSR submission:

"Currently all 7th and 8th grade students have a course called Executive Functioning. This course teaches students social emotional skills, organization, time management and self-control. While this course is considered a "special", it is more closely related to guidance and Special Education than the other more traditional specials. This course requires a room that has a flexible arrangement to allow for students to work as individuals, in small groups, or to move the furniture to do other activities such as stretching or yoga. Dimmable lighting and sound proofing are also required in this space. Adjacency to the Adaptive PE/OT/PT would be beneficial. Adjacent ample storage will be required to secure yoga mats, and equipment, so these two spaces could additionally share a storage area. By locating this room near the guidance suite, it could also serve as a location for guidance counselors to meet with groups of students when it is not in use for the executive functioning course."

This course is taught by a dedicated teacher, and the Executive Functioning classroom is occupied 5 periods per school day.

• **Special Education** – The District is proposing a total of 14,200 nsf which exceeds the MSBA guidelines by 6,150 nsf. The proposed area in this category has decreased by 3,130 nsf since the PDP submittal.

Please note that the Special Education program is subject to approval by the Department of Elementary and Secondary Education ("DESE"). The District should provide this information for this submittal with the Schematic Design

submittal. Formal approval of the district's proposed Special Education program by the DESE is a prerequisite for executing a Project Funding Agreement with the MSBA. Please acknowledge.

District Response: Acknowledged.

• Art & Music / Vocations & Technology –The District is proposing a combined total of 9,420 nsf which exceeds the MSBA guidelines by 500 nsf. The proposed area in this category has decreased by 150 nsf since the PDP submittal. MSBA encourages the District and its designer explore efficiencies that would allow for the proposed storage spaces to be accounted for in the Non-Programmed Spaces category while maintaining an overall grossing factor of 1.50. The MSBA does not object to the District including this additional space in the project; however, all square footage in excess of MSBA guidelines will be considered ineligible for reimbursement. Please acknowledge.

District Response: Acknowledged.

• Health & Physical Education – The District is proposing a total of 9,400 nsf which exceeds the MSBA guidelines by 1,000 nsf. The proposed area in this category has decreased by 1,750 nsf since the PDP submittal. The MSBA does not object to the District including this additional space in the project; however, all square footage in excess of MSBA guidelines will be considered ineligible for reimbursement. Please acknowledge.

District Response: Acknowledged.

- Media Center The District is proposing a total of 4,405 nsf which meets the MSBA guidelines. The proposed area in this category has not changed since the PDP submittal. Additionally, the District is proposing the following space:
 - \circ (1) 1,000 nsf Maker Space as part of the Media Center. The current version of MSBA's space summary template includes provisions, which the project team should become familiar with, for such spaces provided these spaces align, conform to MSBA guidelines for STE spaces and with the District's educational program. In order for the MSBA to consider eligibility of the proposed space provide additional information that describes how the proposed space(s) will be scheduled, staffed, and utilized. Include examples of activities that will occur in these spaces. An updated space summary is required in order for MSBA to complete review of this category. District Response: Refer to page 20 of the Educational Program. The maker space will essentially function as the STE space and Science lab for students in grades 4-6. The Maker Space will support activities such as providing access and opportunity for teachers to bring their students to, in order to work on hands-on projects. Beyond supporting 4-6 STE education, any upper grade level teacher can schedule their class to utilize the Maker space for science, technology, or project-based

curriculum, the Media Specialist will oversee the use of the space and will support the scheduling of the space with the teachers, giving priority to teachers in 4–6. The District will review this space allocation in greater detail during Schematic Design.

• **Dining & Food Service** – The District is proposing a total of 10,558 nsf which exceeds the MSBA guidelines by 1,000 nsf. The proposed area in this category has not changed nsf since the PDP submittal. The MSBA does not object to the District including this additional space in the project; however, all square footage in excess of MSBA guidelines will be considered ineligible for reimbursement. Please acknowledge.

District Response: Acknowledged.

Medical – The District is proposing a total of 660 nsf which exceeds the MSBA guidelines by 50 nsf. The proposed area in this category has decreased by 100 since the PDP submittal. As noted in MSBA's PDP review comments, the MSBA does not object to the District including this additional space in the project; however, all square footage in excess of MSBA guidelines will be considered ineligible for reimbursement. Please acknowledge.
 District Response: Acknowledged

- Administration and Guidance The District is proposing a total of 3,500 nsf which meets the MSBA guidelines. The proposed area in this category has decreased by 1,850 nsf since the PDP submittal. No further action required.
- **Custodial and Maintenance** The District is proposing a total of 2,175 nsf which meets the MSBA guidelines. The proposed area in this category has not changed since the PDP submittal. No further action required.
- **Total Building Net Floor Area** The District is proposing a total of 90,438 nsf which exceeds the MSBA guidelines 8,750 nsf. The proposed area has decreased by 9,840 nsf since the PDP submittal. Please address the comments provided in the categories above as part of the District's response to these comments in order for the MSBA to estimate an allowable net square footage.
- Total Building Gross Floor Area The District is proposing a total of 136,000 gross square feet ("gsf") which exceeds the MSBA guidelines by 21,000 gsf with a grossing factor of 1.50. The proposed area has decreased by 14,000 gsf since the PDP submittal. Please address the comments provided in the categories above as part of the District's response to these comments in order for the MSBA to estimate an allowable gross square footage.
- Non-Programmed Spaces Please complete the 'Non-Programmed Spaces' category as part of the Schematic Design submittal. Please acknowledge. District Response: Acknowledged.

Please note that upon moving forward into subsequent phases of the proposed project, the Designer will be required to provide, with each submission, a signed, updated space summary that reflects the design and demonstrates that the design remains, except as agreed to in writing by the MSBA, in accordance with the guidelines, rules, regulations and policies of the MSBA. Should the updated space summary demonstrate changes to the previous space summary include a narrative description of the change(s) and the reason for the proposed changes to the project.

End

As reported on the school district's most recent three end of year information, please updated to the 3 latest fiscal year periods

	2019-2020		2020-2021	
	FY	FY2020		2021
Category	Staff (FTE)	Budget	Staff (FTE)	Budget
<u>Salaries</u>				
Administration				
Admin. Secretary	8.50	458,802	8.50	475,544
Assistant Principal	3.00	291,506	3.00	315,309
Business Office	2.50	145,286	2.50	198,476
Curriculum Director/Coord.	0.50	43,561	0.50	50,400
Custodians/Maintenance Staff	11.00	616,223	11.00	686,988
Executive Secretary	1.00	71,543	1.00	73,853
Facilities Manager	0.50	45,986	0.50	34,686
Guidance	0.00	-	0.00	-
Adjustment Counselor	4.50	373,153	4.50	397,422
Guidance Counselors	2.00	163,716	2.00	167,808
Guidance Director	0.00	-	0.00	-
Legal	0.00	-	0.00	-
Nurse	5.00	333,116	5.00	324,780
Other	7.00	484,958	8.00	668,253
Principal	3.00	368,263	3.00	336,215
Special Education Admin	2.00	104,636	1.00	95,000
Superintendent/Asst. Superintendent	2.00	279,528	2.00	285,850
Transportation	0.00	-	0.00	-
Treasurer	1.00	95,000	1.30	125,315
Total Administration	53.50	3,875,277	53.80	4,235,899
Instruction - Teaching Services				
Arts	3.50	190,618	3.50	151,797
Business	1.00	84,250	1.00	91,761
Communications	0.00	-	0.00	-
Coping Instructor	0.00	-	0.00	-
Culinary Arts	0.00	-	0.00	-
ELL	8.00	577,025	8.00	596,605
English Language	8.00	632,421	8.00	697,457
Family Consumer Services	1.00	61,138	1.00	66,983
Foreign Language	4.50	312,194	4.00	196,737

	9.00	676,824	9.00	665,021
History & Social Science	4.80	340,926	6.00	496,141
Instructional Assistant/Paraprofessionals	35.00	1,038,682	34.00	991,260
Library/Media	2.66	165,102	1.00	81,110
Mathematics	6.00	398,770	6.00	532,355
MCAS	0.00	-	0.00	-
Music	3.30	225,340	3.30	250,678
Other	49.00	3,299,522	53.00	3,850,566
Physical Education	6.00	399,866	6.00	436,929
Reading	0.00	-	0.00	-
School Adjustment Counselor	0.00	-	0.00	-
Science	0.00			
Biology	3.00	211,488	5.00	414,118
Botany	0.00	-	0.00	
Chemistry	2.00	144,090	2.00	148,413
Geology	0.00	-	0.00	
Physics	1.00	80,303	0.50	31,300
Special Education	29.00	2,141,272	29.00	2,148,113
Substitute Teachers	2.50	111,972	3.00	157,037
Technology	6.00	472,320	7.00	543,984
Vocational Tech.	0.00	-	0.00	-
Total Instruction - Teaching Services	185.26	11,564,123	190.30	12,548,365
Total Salaries Administration & Instruction	238.76	15.439.400	244.10	16,784,264
		,,		
<u>Employee Benefits</u> All employee-related fringe (health insurance, retiren	nent etc)	4,150,264		4,400,199
<u>Employee Benefits</u> All employee-related fringe (health insurance, retiren <u>Materials & Services</u>	nent etc)	4,150,264	, 	4,400,199
<u>Employee Benefits</u> All employee-related fringe (health insurance, retiren <u>Materials & Services</u> Materials	nent etc)	4,150,264	, 	4,400,199
<u>Employee Benefits</u> All employee-related fringe (health insurance, retiren <u>Materials & Services</u> Materials Audio-Visual Materials	nent etc)	4,150,264	, 	4,400,199
Employee Benefits All employee-related fringe (health insurance, retiren <u>Materials & Services</u> Materials Audio-Visual Materials Culinary Arts Materials	nent etc)	4,150,264		4,400,199
Employee Benefits All employee-related fringe (health insurance, retiren <u>Materials & Services</u> Materials Audio-Visual Materials Culinary Arts Materials General Office Supplies	nent etc)	4,150,264		4,400,199
Employee Benefits All employee-related fringe (health insurance, retiren Materials & Services Materials Audio-Visual Materials Culinary Arts Materials General Office Supplies	nent etc)	4,150,264		4,400,199 - - 165,689
Employee Benefits All employee-related fringe (health insurance, retiren Materials & Services Materials Audio-Visual Materials Culinary Arts Materials General Office Supplies Information technology	nent etc)	4,150,264	C	4,400,199
Employee Benefits All employee-related fringe (health insurance, retiren Materials & Services Materials Audio-Visual Materials Guinary Arts Materials General Office Supplies Information technology Hardware	nent etc)	4,150,264		4,400,199 - - 165,689 - 249,062

Library Materials	273	956
Non into-tech equipment	35,298	44,326
l esting Materials & Supplies	13,316	11,756
lextbooks	115,036	147,072
vocational Program Materials	-	-
Total Materials	635,976	697,858
Services		
Athletics	277,863	334,993
Attendance	-	-
Food Service	27,477	-
Health Services	525,556	452,780
Other Student Activities	90,798	74,582
Psychological Services	11,250	12,850
School Security	-	-
Student Transportation	1,426,282	1,672,052
Total Services	2,359,226	2,547,257
Total Material & Services	2,995,202	3,245,115
Facility Costs & Capital Improvements		
Facility Costs		
Custodial Supplies	106.012	100 654
Flectricity	444 401	480 748
Heating Oil		
Maintenance		
Building Security Maintenance		_
Flevator		_
Equipment Maintenance	_	_
Exterminating	<u>.</u>	<u> </u>
Facility Maintenance	383.030	312 316
Fire Alarm	-	-
Fire Extinguisher Inspection	-	-
Generator	-	-
HVAC Maintenance	· ·	-
Other	-	-
Site Maintenance (Grouds)	176,062	185,249

Technology		304,436		436,066
Trash Removal		32,160		32,627
Natural Gas		235,087		231,850
Snow Removal		-		-
Telephone		20,128		25,477
Water/Sewer		68,018		55,099
Total Facility Costs		1,769,334		1,860,086
Captial Improvements				
Captial Improvements		645,413		101,341
Total Facility Costs & Capital Improvements		2,414,747		1,961,427
Debt Service				
		-		-
Long-term		719,888		484,338
I OTAL DEDT SERVICE		719,888		484,338
Total Budget & Staff	238.76	25,719,501	244.10	26,875,343

; and complete the fields below.

2021-2022 Cha		Change from	Change from Previous Year		Post-Constuction Budget		New Facility vs. Current	
FY2	2022							
Staff	Budget	Staff (FTE)	Budget	Staff	Budget	Staff (FTE)	Budget	
10.00	504,185	1.50	28.641	0.00	-	-10.00	(504,185)	
3.00	307,401	0.00	(7,908)	0.00	-	-3.00	(307,401)	
2.50	212,829	0.00	14,353	0.00	-	-2.50	(212,829)	
1.00	91,600	0.50	41,200	0.00	-	-1.00	(91,600)	
11.00	696,909	0.00	9,921	0.00	-	-11.00	(696,909)	
1.00	91,772	0.00	17,919	0.00	-	-1.00	(91,772)	
0.50	48,087	0.00	13,401	0.00	-	-0.50	(48,087)	
0.00	-	0.00	-	0.00	-	0.00	-	
5.00	408,397	0.50	10,975	0.00	-	-5.00	(408,397)	
2.00	146,113	0.00	(21,695)	0.00	-	-2.00	(146,113)	
0.00	-	0.00	-	0.00	-	0.00	-	
0.00	-	0.00	-	0.00	-	0.00	-	
5.00	328,907	0.00	4,127	0.00	-	-5.00	(328,907)	
8.60	707,127	0.60	38,874	0.00	-	-8.60	(707,127)	
3.00	347,880	0.00	11,665	0.00	-	-3.00	(347,880)	
1.00	97,850	0.00	2,850	0.00	-	-1.00	(97,850)	
2.00	291,489	0.00	5,639	0.00	-	-2.00	(291,489)	
0.00	-	0.00	-	0.00	-	0.00	-	
1.30	129,648	0.00	4,333	0.00	-	-1.30	(129,648)	
56.90	4,410,194	3.10	174,295	0.00	-	-56.90	(4,410,194)	
3.50	202.393	0.00	50,596	0.00	-	-3.50	(202,393)	
1.00	89,308	0.00	(2,453)	0.00	-	-1.00	(89,308)	
0.00	-	0.00	-	0.00	-	0.00	-	
0.00	-	0.00	-	0.00	-	0.00	-	
0.00	-	0.00	-	0.00	-	0.00	-	
10.00	708,430	2.00	111,825	0.00	-	-10.00	(708,430)	
9.00	741,640	1.00	44,183	0.00	-	-9.00	(741,640)	
1.00	73,912	0.00	6,929	0.00	-	-1.00	(73,912)	
3.00	253,039	-1.00	56,302	0.00	-	-3.00	(253,039)	

9.75	716,873	0.75	51,852	0.00	-	-9.75	(716,873)
8.00	577,620	2.00	81,479	0.00	-	-8.00	(577,620)
39.00	1,200,049	5.00	208,789	0.00	-	-39.00	(1,200,049)
1.00	85,170	0.00	4,060	0.00	-	-1.00	(85,170)
8.00	556,056	2.00	23,701	0.00	-	-8.00	(556,056)
0.00	-	0.00	-	0.00	-	0.00	-
4.00	305,675	0.70	54,997	0.00	-	-4.00	(305,675)
54.00	3,878,287	1.00	27,721	0.00	-	-54.00	(3,878,287)
6.00	446,026	0.00	9,097	0.00	-	-6.00	(446,026)
0.00	-	0.00	-	0.00	-	0.00	-
0.00	-	0.00	-	0.00	-	0.00	-
			-				
4.00	252,087	-1.00	(162,031)	0.00	-	-4.00	(252,087)
0.00		0.00	-	0.00	-	0.00	-
2.00	153,014	0.00	4,601	0.00	-	-2.00	(153,014)
0.00		0.00	-	0.00	-	0.00	-
0.50	26,002	0.00	(5,298)	0.00	-	-0.50	(26,002)
31.00	2,245,627	2.00	97,514	0.00	-	-31.00	(2,245,627)
5.00	271,467	2.00	114,430	0.00	-	-5.00	(271,467)
7.00	523,853	0.00	(20,131)	0.00	-	-7.00	(523,853)
0.00	-	0.00	-	0.00	-	0.00	-
206.75	13,306,528	16.45	758,163	0.00	-	-206.75	(13,306,528)
263.65	17,716,722	19.55	932,458	0.00	- I	-263.65	(17,716,722)
1							
-	4,525,110		124,911		-		(4,525,110)
	_				_		
	-		-		-		
	- - 1 <i>11</i> 971		- - (20 718)		-		- - (1/// 971)
	- - 144,971 -		- - (20,718) -		-		- - (144,971) -
	- - 144,971 - 148,782		- - (20,718) - (100,279)		- - -		- (144,971) - (149,792)
	- - 144,971 - 148,783		- (20,718) - (100,279)		- - -		(144,971) - (148,783) (173,130)




					Cli	nton Middle S	chool Proje	ct										
D	Task Name	Duration	Start	Finish	2nd Half	2023 1st Half	2nd Half	2024 1st Half	2nd Half	2025 1st Half	2nd Half	2026 1st Half	2nd Half	2027 1st Half	2nd Half	2028 1st Half	2nd Half	<u> </u>
1	MSBA Module 2 - 7	1878 days?	Tue 9/7/21	Thu 11/16/28	Qtr 2 Qtr 3 Qtr 4	4 Qtr 1 Qtr 2	Qtr 3 Qt	r 4 Qtr 1 Qtr 2	Qtr 3 Qtr 4	Qtr 1 Qtr 2	Qtr 3 Qtr 4	Qtr 1 Qtr	2 Qtr 3 Qtr 4	Qtr 1 Qtr 2	Qtr 3 Qtr 4	Qtr 1 Qtr 2	Qtr 3 Qt	r4
2	Mod 2 - Architect selection process	57 days	Fri 8/5/22	Mon 10/24/22														
14	Module 3 - Feasibility Study	181 days	Wed 12/21/22	Wed 8/30/23		·												
15	Preferred Design Program (PDP)	90 days	Wed 12/21/22	Tue 4/25/23														
28	Preferred Schematic Report (PSR)	104 days	Fri 4/7/23	Wed 8/30/23	-													
29	Final evaluation of of alternatives	30 days	Fri 4/7/23	Thu 5/18/23	-													
30	Preferred solution	25 days	Fri 5/12/23	Thu 6/15/23	-	_												
31	Local action and approvals	7 days	Fri 6/16/23	Mon 6/26/23	-	i	K											
32	Submit PSR to MSBA	1 day	Tue 6/27/23	Tue 6/27/23	-		t l											
33	MSBA Board Approval to proceed with schematic design 8/30/23	46 days	Wed 6/28/23	Wed 8/30/23			r1											
34	MSBA staff review	20 days	Wed 6/28/23	Tue 7/25/23	-		(-1											
35	MSBA PSR review and comment	15 days	Wed 6/28/23	Tue 7/18/23	_		1											
36	Respond to MSBA PSR comments	5 days	Wed 7/19/23	Tue 7/25/23	-		k 🛉											
37	Facilities assessment subcommittee review	31 days	Wed 7/19/23	Wed 8/30/23	_		E -1											
38	FAS Mtg #1	1 day	Wed 7/19/23	Wed 7/19/23	-		h -											
39	FAS Mtg #2 (if required)	1 day	Wed 8/2/23	Wed 8/2/23	_		🕇											
40	Respond to FAS comments	5 days	Thu 8/3/23	Wed 8/9/23	_		1											
41	MSBA Board Approval - 8-30-23	1 day	Wed 8/30/23	Wed 8/30/23	_		հ											
42	Module 4 - Schematic Design	1 day?	Tue 9/7/21	Tue 9/7/21														
43	MA Historical Com.	56 days	Fri 9/1/23	Fri 11/17/23			r											
44	Assemble documentation to submit PNF	30 days	Fri 9/1/23	Thu 10/12/23	_													
45	MHC review and response	26 days	Fri 10/13/23	Fri 11/17/23	_			I										
46	SD Submission Development	169 days	Fri 9/1/23	Wed 4/24/24	_		r	1										
47	DESE Submittal Development	120 days	Fri 9/1/23	Thu 2/15/24														
48	Schematic Design Binder	85 days	Fri 9/1/23	Thu 12/28/23	_													
49	Schematic Design Project Manual	85 days	Fri 9/1/23	Thu 12/28/23														
50	Schematic Design Drawings	85 days	Fri 9/1/23	Thu 12/28/23														
51	Schematic Design Estimating	20 days	Fri 12/29/23	Thu 1/25/24				≚ ₁										
52	SD Estimate Reconciliation & Budget	6 days	Fri 1/26/24	Fri 2/2/24				Ť										
53	· ·	15 days	Mon 2/5/24	Fri 2/23/24														
54	Submit SD to MSBA	1 day	Mon 2/26/24	Mon 2/26/24				5										
55	Review and approve SD submission	25 days	Tue 2/27/24	Mon 4/1/24				-										
56	MSBA Staff review	25 days	Tue 2/27/24	Mon 4/1/24				-										
57	MSBA SD review and comment	15 days	Tue 2/27/24	Mon 3/18/24				<u>ل</u>										
58	Response to MSBA SD comments	10 days	Tue 3/19/24	Mon 4/1/24				ĥ										
59	Final submission review	1 day	Tue 4/2/24	Tue 4/2/24				ĥ										
60	MSBA Board approval - date TBD	15 days	Wed 4/3/24	Tue 4/23/24				Ľ.										
61	MSBA Board Action Letter Issued	1 day	Wed 4/24/24	Wed 4/24/24				LF										
62	DESE review and approval letter	4 days	Tue 3/19/24	Fri 3/22/24				ř										
63	Module 5 - Funding the Project	50 days	Wed 4/24/24	Tue 7/2/24				-	-									
64	Project scope and budget agreement	10 days	Thu 4/25/24	Wed 5/8/24				1										
65	Total Project Budget & Exhibit Development	3 days	Thu 4/25/24	Mon 4/29/24				Ĩ										
66	Reimbursment rate - signed Certification	3 days	Tue 4/30/24	Thu 5/2/24														
CMS - 06.27.	PSR Option NC1 (700) 2023 Task Split Milestone	Project S Inactive T	ask Ailestone	Manua Durati Manua	al Task International Control on International Summary Rollup	- 	Start-only Finish-only External Task	E]		Deadline Progress Manual Progress	s							
	Summary	Inactive S	ummary	Manua	al Summary	1	External Mile	estone 🔷										

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					Clinto	on Middle S	chool Project											
ID	Task Name	Duration	Start	Finish		2023		2024		2025		2026		2027		2028		_
					2nd Half Qtr 2 Qtr 3 Qtr 4	1st Half Qtr 1 Qtr 2	2nd Half Qtr 3 Qtr 4	1st Half Qtr 1 Qtr 2	2nd Half 2 Qtr 3 Qtr 4	1st Half Qtr 1 Qtr 2	2nd Half Qtr 3 Qtr 4	1st Half Qtr 1 Qtr 2	2nd Half Qtr 3 Qtr 4	1st Half Qtr 1 Qtr 2	2nd Half Qtr 3 Qtr 4	1st Half Qtr 1 Qtr 2	2nd Half Qtr 3 Qt	tr 4
67	Prerequisits to MSBA Execution of PS&B	3 days	Tue 4/30/24	Thu 5/2/24				ľ.										
68	Send MSBA PS&B Package for execution	2 days	Fri 5/3/24	Mon 5/6/24				Ľ.										
69	PS&B Executed	2 days	Tue 5/7/24	Wed 5/8/24														
70	Local Authorization for funding (120 days)	35 days	Wed 4/24/24	Tue 6/11/24				-	1									
71	preparation & Town meeting	29 days	Wed 4/24/24	Mon 6/3/24					ן									
72	Ballot Vote for borrowing	1 day	Tue 6/4/24	Tue 6/4/24				i	Ĩ									
73	Local funding documentation	5 days	Wed 6/5/24	Tue 6/11/24				i	Ť.									
74	Project Funding Agreement	11 days	Wed 6/12/24	Wed 6/26/24					6.1									
75	Prerequisits to MSBA Execution of PFA	5 days	Wed 6/12/24	Tue 6/18/24					Ť.									
76	Certification of legal council	5 days	Wed 6/12/24	Tue 6/18/24					ř									
77	Certified vote copies	5 days	Wed 6/12/24	Tue 6/18/24	-				ĥ									
78	Send MSBA PFA package fro execution	1 day	Wed 6/19/24	Wed 6/19/24					ĥ									
79	PFA Executed & returned to district	5 days	Thu 6/20/24	Wed 6/26/24					ĥ									
80	Propay budget entered	4 days	Thu 6/27/24	Tue 7/2/24					ř									
81	Module 6 - Detailed Design*	308 days	Tue 6/4/24	Thu 8/7/25							-							
82	Design Development (DD)	136 days	Tue 6/4/24	Tue 12/10/24														
83	Design Development	100 days	Wed 6/5/24	Tue 10/22/24	_			i	*									
84	DD Submission	1 day	Wed 10/23/24	Wed 10/23/24					F.									
85	MSBA DD Review	21 days	Thu 10/24/24	Thu 11/21/24					–									
86	Address DD Review Comments	14 days	Fri 11/22/24	Wed 12/11/24					I									
87	60% Construction Documents	207 days	Wed 10/23/24	Thu 8/7/25	-				r		-							
88	60% CD Development	90 days	Wed 10/23/24	Tue 2/25/25	-				+	٦								
89	60% CD Development Submission	1 day	Wed 2/26/25	Wed 2/26/25	-					F								
90	MSBA 60% CD Review	21 days	Thu 2/27/25	Thu 3/27/25	-					–								
91	Address 60% SD Review Comments	14 days	Fri 3/28/25	Wed 4/16/25	-					1								
92	90% Construction Documents	76 days	Wed 2/26/25	Wed 6/11/25	-					r — 1								
93	90% CD Development	40 days	Wed 2/26/25	Tue 4/22/25						*								
94	90% CD Development Submission	1 day	Wed 4/23/25	Wed 4/23/25						F .								
95	MSBA 90% CD Review	21 days	Thu 4/24/25	Thu 5/22/25						1								
96	Address 90% SD Review Comments	14 days	Fri 5/23/25	Wed 6/11/25						1								
97	100% CD Complete	73 days	Tue 4/29/25	Thu 8/7/25						8	-							
98	Complete 100% Documents for Bidding	35 days	Tue 4/29/25	Mon 6/16/25						1								
99	Bidding	44 days	Mon 6/2/25	Thu 7/31/25	-					ľ								
100	Advertise, Issue, Open Bids & Award	40 days	Thu 6/12/25	Wed 8/6/25	-													
101	Notice to Proceed	1 day	Thu 8/7/25	Thu 8/7/25	-						5							
102	Module 7 - Construction*	859 days?	Mon 8/4/25	Thu 11/16/28							r							1
103	Module 7: New Building Construction	450 days	Tue 8/26/25	Mon 5/17/27	1						+							
104	Module 7: Building Finishes	55 days	Tue 5/18/27	Mon 8/2/27	1									*				
105	Move-In	1 day	Tue 8/3/27	Tue 8/3/27	1										1			
106	Module 7 - Demo of Existing Building & final site work	258 days	Tue 8/3/27	Thu 7/27/28	1										+		h	
107	Module 7 - Final Site work and Building Finishes	68 days	Wed 8/2/28	Fri 11/3/28	1												Ť.	
108	Substantially Complete	1 day	Mon 11/6/28	Mon 11/6/28	1												ĩ	

Е ₽ Task Project Summary Manual Task Start-only Deadline CMS - PSR Option NC1 (700) 06.27.2023 Split з Inactive Task Duration-only Finish-only Progress Milestone ٠ Inactive Milestone Manual Summary Rollup External Tasks Manual Progress Summary Inactive Summary 1 Manual Summary External Milestone \diamond

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3.3.4 PREFERRED SOLUTION E.5 VEHICULAR CIRCULATION DIAGRAM NEW CONSTRUCTION 1 (NC-1) 700 STUDENTS



NOTES:



- MAIN ENTRANCE Locked Down after Student Arrival
- Gym Access to Field
- Pedestrian Crossing

Bus Circulation Parent Circulation Access Road





NOTES:



3.3.4 PREFERRED SOLUTION E.6 PEDESTRIAN FLOW DIAGRAM NEW CONSTRUCTION 1 (NC-1) 700 STUDENTS

MAIN ENTRANCE Locked Down after Student Arrival

Gym Access to Field

Pedestrian Path (Accessible)

Pedestrian Crossing





NOTES:



3.3.4 PREFERRED SOLUTION E.7 EMERGENCY VEHICLE ACCESS DIAGRAM NEW CONSTRUCTION 1 (NC-1) 700 STUDENTS

MAIN ENTRANCE

GYM ACCESS

AMBULANCE ACCESS Exit from Medical Suite EGRESS DOOR/STAIR





3.3.4 PREFERRED SOLUTION E.8 SECURITY & ACCESS CONTROL DIAGRAM NEW CONSTRUCTION 1 (NC-1) 700 STUDENTS



NOTES:



MAIN ENTRANCE Locked Down after Student Arrival

GYM ACCESS TO FIELDS









TOWN OF CLINTON

Office of the Selectmen 242 Church Street, Clinton, Massachusetts 01510 Tel: (978) 365-4120 • Fax: (978) 365 4130 BOARD OF SELECTMAN

Edward J. Devault Mary Rose Dickhaut Sean J. Kerrigan Matthew H. Kobus Julie K. Perusse

Michael J. Ward Town Administrator

06/27/2023

Ms. Mary Pichetti Director of Capital Planning 40 Broad Street Boston, Massachusetts 02109

Dear Ms. Pichetti:

The Clinton Middle School Permanent Building Committee ("PBC") has completed its review of the Feasibility Study Preferred Schematic Report for the Clinton Middle School (the "Project"), and on June 27th,2023, the PBC voted to approve and authorize the Owner's Project Manager to submit the Feasibility Study related materials to the MSBA for its consideration. A certified copy of the PBC Preferred Schematic Vote Certification and meeting minutes, which include the specific language of the vote and the number of votes in favor, opposed, and abstained, are attached.

Since the MSBA's Board of Directors invited the town to conduct a Feasibility Study on March 2, 2022, the PBC has held 13 meetings regarding the proposed project, in compliance with the state Open Meeting Law. These meetings include:

- August 09, 2022
- August 30, 2022
- September 27, 2022
- November 01, 2022
- November 29, 2022
- December 20, 2022
- January 10, 2023

- February 06, 2023
- March 07, 2023
- March 21, 2023
- April 25, 2023
- June 06, 2023
- June 20, 2023

Notices for these meetings were posted and made available for public review in Clinton Middle School (100 W. Boylston St, Clinton, MA 01510). Notices were also made available on our project website.

In addition to the PBC meetings listed above, The Town held Community Visioning Sessions and public meetings. (Which was posted in compliance with the state Open Meeting Law, at which the Project was discussed. These meetings include:

 January 30th, 2023 – Teacher/Facility and Resident Visioning Session with Owner's Project Manager DWMP, and Designer LPA|A, students from Clinton Middle School and Superintendent of Schools Steve Meyer. Topics discussed: Project and Visioning Overview, Future Ready Teaching and Learning, Priority Goal Setting, Design Patterns, Blue sky ideas, and Q&A.



TOWN OF CLINTON

Office of the Selectmen 242 Church Street, Clinton, Massachusetts 01510 Tel: (978) 365-4120 • Fax: (978) 365 4130 BOARD OF SELECTMAN

Edward J. Devault Mary Rose Dickhaut Sean J. Kerrigan Matthew H. Kobus Julie K. Perusse

Michael J. Ward Town Administrator

- February 3rd, 2023 Student Visioning Session with Owner's Project Manager DWMP, and Designer LPA|A, students from Clinton Middle School and Superintendent of Schools Steve Meyer.
- March 15th, 2023 All Board Public Meeting with Owner's Project Manager DWMP, Designer LPA|A, and Superintendent of Schools Steve Meyer. Topics discussed: Project Team & Organization, Process & Schedule, Educational Goals & Programming, and Existing Conditions Overview.
- June 14th, 2023 All Board Public Meeting with Owner's Project Manager DWMP, Designer LPA|A, Superintendent of Schools Steve Meyer, Topics discussed: Building Options with cost estimates

The presentation materials for each meeting, meeting minutes, and summary materials related to the Project are available locally for public review by visiting the school's project website:

www.clintonmiddleschoolbuildingproject.com > Committee (Clinton Middle School Building Project)

To the best of my knowledge and belief, each of the meetings listed above complied with the requirements of the Open Meeting Law, M.G.L. c. 30A, §§ 18-25 and 940 CMR 29 et seq.

If you have any questions or require any additional information, please contact the Owner's Project Manager, Dore & Whittier Management Partners, at (978) 499-2999.

belief, the information belief, supplied by the District in this Certification is true, complete, and accurate.

Machaellian

Bv: Michael Ward Title: Chief Executive Officer & Town Administrator

Date: 7/7/23

By signing this Local Action By signing this Local Action and Approval Certification, I and Approval Certification, I hereby certify that, to the hereby certify that, to the best of my knowledge and best of my knowledge and the information supplied by the District in this Certification is true, complete, and accurate.

By:

Steve Meyer Title: Superintendent Schools

Date: 7/7/23

By signing this Local Action and Approval Certification, I hereby certify that, to the best of my knowledge and belief, the information supplied by the District in this Certification is true, complete, and accurate.

Brendan Baile Title: Chair of the School Committee

Date: 7723

of



CLINTON PUBLIC SCHOOLS

150 School Street Clinton, Massachusetts 978-365-4200 FAX: 978-365-5037 Email: smeyer@clinton.k12.ma.us SCHOOL COMMITTEE

Brendan Bailey Joel Bates Pam Gaw Matthew Varakis Tena Zapanits

Dr. Steven Meyer Superintendent

March 7, 2023

REGARDING: Grade Configuration for the Clinton Middle School Project

To Whom It May Concern,

On February 13th, during open-session of a Clinton Public School School Committee meeting, the School Committee unanimously voted in favor of pursuing a 4-8 grade configuration with an enrollment of 700 students for the Clinton Middle School MSBA project. A copy of the approved minutes reflecting this vote are attached to this letter.

Prior to making this decision, the School Committee was presented with information regarding the current enrollment of the district. The handout that was included in the school committee packet is attached to this letter. The summary of CPS enrollment can be seen in the table below:

	CPS Enrollment												
	22-23												
CES	680	824	837	755	817	840							
CMS	746	578	603	581	578	545							
CHS	457	456	460	491	510	587							
Total	1883	1858	1900	1827	1905	1972							

The decision for this grade configuration came down to two main reasons:

- Unanticipated Growth in the District: the enrollment at CPS continues to climb, and many of these students are immigrating to the United States and doubling up with other family members. This is a growth factor that we do not feel was accounted for in the enrollment certification process. The school committee does not want to invest significant resources into a project and then have the district run out of space.
- The need for Space at Clinton Elementary School: Grade four was in the Middle School up until the 17-18 school year. At that time, the fourth grade was moved to CES due to the large "bubble grades" at CMS. CES currently has a long waitlist for Pre-Kindergarten, and we are expecting universal Pre-K to be a reality in the near future. CPS needs the space at CES for early childhood education.

The only concern expressed regarding moving in this direction was the cost of the project and the question regarding the cost differential of building a school for 700 students in grades 4-8 versus the cost of building one for 550 students in grade 5-8.

Also, it should be noted that the school committee made this decision with the understanding that all MSBA Projects are done to support the educational programming of the building. Thus, if fourth grade

students are located in the building then the building project will plan to have areas that are developmentally appropriate for fourth grade students.

If you have any questions regarding this vote, please feel free to contact my office at (978) 365-4200.

Sincerely,

Steven C. Meyer, Ed.D. Superintendent

School Committee Meeting High School Library Monday, February 13, 2023 7:00 PM

School Committee Members Present: Brendan Bailey, Joel Bates, Matthew Varakis, Tena Zapantis, and Pam Gaw.

Administrators Present: Superintendent Steven Meyer, Loretta Braverman, Scott Czermak, Alyssa Piermarini, Courtney Harter, Shannon Reilly, and Meghan Silvo.

Others Present: Dave Derezinski, Robin Quist, Judy McGrail, Cathy Small, Carolyn Dervin, Nancy Munoz, Katie Dunn, Sam Kenyon, Tiffany Najera, Teomi Cole, Dave Hilton, Amy Scavone, Lauren Ortgiesen, Christine Zentgraf, and Kelly Santucci.

The following students were in attendance with their family members: Owen Breidel, Grady Poole, Liliannis Rivera Santos, Carly Henry, Guadalupe Castillo, Matthew Hanson, Hayden Kaizer, Andrew Desiata, Symiah Osei, Sophia Santos, Jocelyn Ziegler, Caleb Despotopulos, Kris Bayard, and Noah Bishop.

Media Present: Jan Gottesman

The meeting was called to order at 7:00 pm with a Pledge of Allegiance to the Flag.

Approval of Bills- Chair Bailey made a motion to approve the Schedule of Bills as presented. Bates moved and Gaw seconded to approve the Schedule of Bills as presented. The motion passed 5-0.

Approval of Minutes- Bates moved and Vice Chair Varakis seconded to approve the Minutes from the January 26, 2023 Meeting. The motion passed 5-0.

Celebrations- The following students were recognized as students of the month: CES Grady Poole (December), Liliannis Rivera Santos and Carly Henry (January), Guadalupe Castillo (February) CMS Matthew Hanson 5, Hayden Kaizer 6, Andrew Desiata 7, Jimboy Pagatpatan 7/8, Saudy Pu Calderon 8 (December) Symiah Osei 5, Sophia Santos 6, Jocelyn Ziegler 7, Alexis Gour 7/8, Caleb Despotopulos 8 (January) CHS Noah Bishop (December) and Kris Bayard (January)

The following staff were recognized as staff of the month: CES Nancy Munoz (December), Katie Dunn (January), Sam Kenyon (February) CMS Tiffany Najera (December) and Teomi Cole (January) CHS Jack Jillet (December) and Dave Hilton (January)

Public Comment- None at this time.

Student Representative- Noting to report.

CTA- Robin Quist said things have been quiet with it being a non-contract year. She said she was impressed with how helpful and responsive John Kittredge has been with the recent health insurance provider change and she wanted to recognize him for being so helpful.

Chair Bailey spoke and said he appreciates the communications during the past bargaining sessions and said it was thanks to Dr. Meyer and the CTA bargaining units. Bates said it is a testament to a working partnership that we have with our teachers and the respect we have for our teachers and all they do.

Quist said she tells the new teachers that we are family in Clinton and that we take care of each other and always come together for the children. The board thanked Mrs. Quist.

PTA- Nothing to report

SEPAC- Nothing to report.

ELPAC- Nothing to report.

Superintendent Report

Staffing Updates- Dr. Meyer announced that Rachel Gibson who was the before and after school care coordinator has transferred to be a preschool IA at CES. She is still helping with the program until that position is filled. Dr. Meyer said he has interviewed candidates and is hoping to fill the position soon. He also announced that CMS reading teacher Lynn Hevy has submitted a maternity leave request.

CMS/MSBA Update- Dr. Meyer said it has been a busy few weeks, they had the Tri-Council and School Committee meeting with LPAA and Dore+Whitter, distributed student and staff surveys, completed focus visioning sessions with multiple departments and staff to determine needs and visions, toured three middle schools, and held an interactive virtual community visioning session. On February 3rd student focus group visioning sessions were held in the morning and a faculty session in the afternoon both were facilitated by the educational consultant. On the 6th we met with different groups of teachers and staff to gather information on what they would like to see with the new building. This information will be looked at and figured into what the MSBA square footage template is and then it will be determined what will work and what may not be reimbursed. Dr. Meyer said he and Mike Ward are meeting with the OPM to start looking with the bond council regarding the debt capacity for the town and what various levels the project may mean financially. Dr. Meyer said there is a building committee meeting on March 7th, the designers will give proposal options for the project, on March 15th there will be an all boards meeting at the town hall, the initial proposals will also be shared at this meeting with the initial costs. This is a public meeting, all are welcome to attend and vote. On the 21st there will be a building committee meeting three proposals will be chosen for further study. The goal is to have the preferred design by this June, then vote to fund the project in June of 2024, and have a target completion date of fall of 2027.

Enrollment Trends and MSBA Scenarios- Dr. Meyer reviewed the MSBA/CMS enrollment options chart, he said one option is to look at a building project that can handle 550 students in grades 5 through 8 or a second option that would be 700 students in grades 4 through 8. Dr. Meyer said it is better to determine early on what path we would like for the design process. Dr. Meyer reviewed the enrollment numbers for the past few years and said we should consider there may be a universal pre-k program in the future, the possibility that we may have to house more pre-k classes, and the vocational enrollment if the Assabet admission patterns continues. He said we want to make sure the new school design will be able to accommodate the student population and feels the smart roll if we are looking long term is to pursue the grade 4-8 option. He said many parents stated they want to keep the fourth grade at the elementary school but if we are building a new building project it will be designed for fourth graders. Dr. Meyer asked the committee if they had any thoughts on the enrollment numbers. Bates said it is very helpful to look at enrollment trends over the past six years and asked if there are models in town that are reliable to project enrollment for future years. Dr. Meyer responded that we were required to collect this data for the MSBA and he feels that what we are seeing at this point is not captured in these numbers. He said many families are doubling up in a household and that is not captured in new housing, he said this is a concern if this trend continues, we may run out of space in the elementary school. Vice Chair Varakis said it is important to consider the larger numbers and if we have the opportunity to build the configuration for grades 4 through 8 to maintain flexibility of what we may grow into makes sense. Bates agreed. Dr. Meyer said if the board feels prepared to make an endorsement they may do so. Vice Chair Varakis made a motion to endorse the grade configuration to be grades 4 through 8, Bates seconded the motion. The motion passed 5-0.

Social Emotional & Physical Wellness - Dr. Meyer briefly reviewed the Social Emotion and Physical Wellness pages from the Strategic Plan. He said Chris Herren visited CHS in December and they are continuing the safety committee meetings.

Community Engagement-

Dr. Meyer said we are continuing to build messaging and communication with the community particularly around the building project and continue to figure out ways to engage people in the process.

Environmental Studies- Dr. Meyer said there are two environmental studies that are being conducted in the district. The first study is next to the central office building, there was an oil tank leak at the church next to the building and an oil tank that was filled with concreate back in 1996. Ground samples are being gathered to make sure there is no contamination in ground or water in this lot. The second study that will be conducted is located in the parking lot between the elementary school and the fire station. The fire department performed trainings with a fire suppressant chemical that was later determined to be hazardous. They will be testing the area in the catch basin and may begin testing areas in the kindergarten playground to make sure there are no containments. This testing will take place during February vacation when the students are not in school. If contaminants are found they will remove the contaminated soil/earth and replace it will new soil.

Tiered Focus Monitoring Special Education Review- Loretta Braverman said the district is almost done with the review, the last submission is due by the end of the week. Ms. Braverman reviewed the CPS Special Education Program Review TFM submission handout. She said ten of the eleven criteria were found to be implemented in the district. The district is in compliance but had one area that was not met. This area was conducting special education evaluations every two years. Braverman said the evaluations that were started in 2020 were not completed due to COVID and marked as partially implemented. Braverman said all of the evaluations have now been completed. Braverman said an outside consulting agency was hired to look at our district and were asked two questions; do students with disabilities have access to inclusion and rigorous coursework and achievement with student with disabilities as compared to students with disabilities across the state as well as their non-disabled peers within the district. Braverman said we do have work to do in order to be in alignment with the state percentages and our goal is to surpass the state percentages. It was also found that students that are included more tend to do better on MCAS testing. The recommendations that were given were to meet the needs of all learners in the least restrictive environment, Braverman said there are things we can do to improve. CES has established a co-taught model that was found to be exemplary. CMS and CHS do have some classrooms that are labeled co-teaching but really do not have a true co-teaching model. It was recommendation to increase that. It was positively noted that CMS and CHS do have a flexible program for students that have social and emotional needs. The consultants met with staff to reviewed the findings and spoke on how to increase those opportunities for inclusion. Braverman met with Dr. Meyer to discuss strategy to do this, the plan is to target 5th grade for next year so they will have a similar model as CES. Dr. Meyer said it is encouraging that the hard work was noted at CES, and the intent all along was to roll this model up to the other schools.

Institutional Self-Evaluation- Dr. Meyer reported a survey was sent to teachers and advisors to look at demographics and make sure there are no limitations on participation. Equity walks were performed by Dr. Meyer and he is working on compiling data for final submission for corrective action, the plan is due at the end of the week.

Chairperson's Report Advisory Committees Curriculum Committee- Nothing to report.

Safety Committee- Dr. Meyer said he met with a representative from the AED company and discussed replacing the current units with new, updated, multi-lingual models. The current units are working but are 15 years old. They are also looking to add stop bleed kits to the district. Dr. Meyer is in the process of finalizing quotes and will bring the quotes back to the board for review. Discussion was held about portable AED machines and if they were accessible to the fields. Dr. Meyer said they are kept in the field house and sheds in the fall and spring, and there is also an AED machine on the gator that travels around the fields during games and events. Vice Chair Varakis spoke about the possibility of extending the RAVE technology that the town has to extend emergency communication with the school if needed.

Marketing Committee- Zapantis said they had a meeting this evening and discussed working out some kinks with the new website. She said the primary focus will be on the marketing of the new school project.

Policies and Procedures Committee- Dr. Meyer said the policy committee met with lead nurse Amy Mason to review the following medical policies: EBB-1, EBBC, EEAE, GBGB, IMG, JLCA, JLCB, JLBA, JLC, JLCD. There were minimal changes made to adopt the policies to the MASC model policies. Dr. Meyer asked the board to approve the policies with the exception of policy JLCA; he would like to table JLCA at this time due to the lead nurse having questions and requesting further review. Bates moved to approve the bundle of policies that were reviewed with the policy subcommittee with the exception of JLCA, Zapantis seconded. The motion passed 5-0.

Facilities- Nothing to report.

Sub-Committee Negotiations- Nothing to report.

Old Business- Nothing to report.

New Business- Dr. Meyer spoke about the 2^{nd} Quarter financial update that was included in the packet. He said some salary lines are showing overspent but will balance out now that the contracts have been finalized. He said some salaries could be moved to Esser grants if needed and he feels we are trending okay.

Adjournment- At 8:07 pm Vice Chair Varakis moved and Bates seconded to adjourn. The motion passed 5-0.

Respectfully Submitted, *Kelly Santucci*

Kelly Santucci School Committee Secretary

Meeting Documents:

February 13, 2023 Agenda Schedule of Bills FY23 Quarter 2 Report January 26, 2023 Minutes Staffing Updates CMS School Project Visioning Process & Upcoming Dates MSBA/CMS Enrollment Options Social Emotional & Physical Wellness Strategic Plan Community Engagement Strategic Plan CPS Special Education Program Review 2022/2023 TFM Submission EBB-1 Life Threatening Allergy Policy EBBC Automated External Defibrillator (AED) Policy EEAE School Bus Safety Program Policy GBGB Staff Personal Security and Safety Policy IMG Animals in Schools Policy JLCA Physical Examinations of Students Policy JLCB Immunization of Students Policy JLBA Pediculosis (Head Lice) Policy JLC Student Health Services and Requirement Policy JLCD Medication Administration to Students Policy

School Committee Meeting High School Library Monday, March 6, 2023 7:00 PM

School Committee Members Present: Brendan Bailey, Matthew Varakis, Tena Zapantis, and Pam Gaw.

Administrators Present: Superintendent Steven Meyer, Loretta Braverman, Scott Czermak, Courtney Harter, and Meghan Silvo.

Others Present: Dave Derezinski, Robin Quist, Judy McGrail, Kimberly Friedrich, Kelly Turcotte, Paige Johnston, Michelle Elliot, and Kelly Santucci.

Media Present: Jan Gottesman remote

The meeting was called to order at 7:00 pm with a Pledge of Allegiance to the Flag followed by a Moment of Silence for Irving Murstein, father to Brenda Disessa.

Approval of Bills- Chair Bailey made a motion to approve the Schedule of Bills as presented. Zapantis moved and Vice Chair Varakis seconded to approve the Schedule of Bills as presented. The motion passed 4-0.

Approval of Minutes- Gaw moved and Zapantis seconded to approve the Minutes from the February 13, 2023 Meeting. The motion passed 4-0.

Public Comment- None at this time.

Student Representative- Paige Johnston reported the boys' basketball team won the Mid Wach C League and CMADA Tournament, the team has qualified for the State Tournament. There will be a blood drive at CHS on Thursday, March 16th from 8am to 1pm, you can register online with code M038, walk-ins are welcome. Dr. Meyer spoke about the digital ticket QR code required by the MIAA for admission ticket, he said this is not our regulation it is the MIAA. Clinton is only the host location for this event.

CTA- Robin Quist said they were able to have the February union meeting. She said they had positive discussion regarding the recent lockdown and are eager to have more training during the professional development day scheduled for March 13th. Quist said she noticed that the High School had curtains covering the windows by the doors in the classroom, she said this was a good idea and something she would like to incorporate at the Middle School. Quist said the teachers thought positively of the letter Dr. Meyer had written for the teachers to read to their students the day following the incident. Dr. Meyer mentioned that a survey will be given at the professional day to gather input for any concerns or suggestions. The board thanked Mrs. Quist.

PTA- Kelly Turcotte said the next meeting will be Wednesday, April 5th at 6:30 pm in the CES library. There will be a Family Bingo Night at the Middle School with some great raffle baskets held on Friday, March 10th, doors open at 5:30 pm, it is ten dollars to play. She thanked the community for helping with the raffle baskets. Turcotte reported that there will be changes to the Board, Shannon Abram has stepped down from her position of Co-Vice President, Kelly and Amy Bishop will be stepping down at the end of the school year. She is happy to say there is a new wave of parents that will bring the PTA to the next level. Turcotte expressed her thanks to all who had made this opportunity so amazing for her during her past years serving the Clinton Public Schools. She said it has been an honor and pleasure to work with so many parents, teachers, and administrators. Nominations for the board will take place in May, elections at the end of June.

SEPAC- Kelly Turcotte reported the next meeting will be held on Tuesday, March 7th at 6:30 pm in the CES library. Turcotte thanked BCBA Stacee LaBak for speaking at the last SEPAC meeting, she was a wealth of information and supportive to the families. There will be coffee with the Assistant Superintendent Director of Pupil Services on April 4th from 5-6pm in the CES library. This will be an informal time for parents and caregivers to ask questions and gain more information about Special Education. May 2nd is the Basic Rights meeting. They will continue to break down IEPs for parents and families through the rest of the year. The SEPAC will be running the concession stand at the play on March 24th and 25th. The proceeds will be split between the two SEPAC scholarships and the David S. Almond Memorial Scholarship. The Board thanked Kelly.

ELPAC- Nothing to report.

Superintendent Report

EF Tours – Paris/Barcelona Trip Details- CHS teacher Michelle Elliot addressed the Board and spoke about the upcoming trip to Paris and Barcelona. They will leave on April 14th and return on April 21st, spending 3 days in each country. They will depart CHS and be transported to the airport by Knight's Limo. Twenty-six students and four teacher chaperones will be traveling. The student travelers have purchased the global travel protection plan, students have signed a no alcohol permitted on tour contract, and have agreed to the rules of the road. At this time, the countries that they are visiting are not requiring COVID vaccines or proof of negative COVID tests. Masks will be provided if they are required to wear them in certain locations. If a traveler tests positive for COVID they will follow the local guidelines. The travel company COVID protection plan provides benefits related to hospital bills, doctor's fees, and medical transportation if required. Elliot said she will have updated information after the next meeting scheduled for March 30th. Dr. Meyer said it is nice that EF Tours have expanded the protections due to COVID and hopes they have a smooth trip.

Staffing Updates- Dr. Meyer reported Felicia Bradley and Stacee LaBak from CMS have both submitted maternity leave requests.

Business Manager- Dr. Meyer asked for the Board's recommendation to appoint Annette Colón from the Assistant Business Manager position to the full-time Business Manager position. Dr. Meyer said Mr. Fratto, the current part-time Business Manager will now be in a coaching type role instead of part-time. Vice Chair Varakis made a motion to execute Dr. Meyer's succession plan to appoint Annette Colón to the Business Manger positon, Zapantis seconded. The motion passed 4-0.

Debrief of 2/14 Incident- Dr. Meyer spoke about the swatting incident that occurred on February 14th. He said the incident being a hoax was the best result, it was a good learning experience. They will be looking to communicate more information on the lockdown and shelter in place guidelines to staff. There were some concerns with being in lockdown for the extended period of time. Most crisis situations are neutralized from a lockdown to a shelter in place within a matter of minutes; due to the nature of this incident we were in lockdown for longer period of time. Dr. Meyer said they will review the protocol at the professional development day scheduled for March 13th and have the staff complete a survey to gather more input. He also noted that the communication sent out to parents was an issue because the messages were not translated for non-English speaking families. In the future the calls will be translated in Spanish and Portuguese to make sure the information is more clear to all parents. The Family Outreach Liaisons will be helping with the translations. Another area of concern during the incident was cell phone use, Dr. Meyer said it is important to communicate to the students to keep the lines open during an emergency and to not send miss-information. Dr. Meyer said they will discuss protocol about door entry identification and the importance of individuals identifying themselves outside of a closed or locked door. He said overall the staff and students handled the situation well.

Zapantis said it was obvious how well prepared we were during the situation and said it was all handled well.

Judy McGrail made a comment that the communication to parents was outstanding.

Chair Bailey spoke about the importance of having a School Resource Officer and talked about how many town departments came together to help during the incident. He thanked Dr. Meyer for waiting to send accurate updates and spoke about the importance of the need for accurate information to address any social media rumors, he said the constant communication from the district put those rumors to rest. He applauded all departments that helped during this situation.

Dr. Meyer said everyone worked together.

Vice Chair Varakis commented on how well the staff came together and how organized the dismissal process was after the incident.

AED Purchase- Dr. Meyer spoke about the quotes for purchasing new AED machines. He said he would like to replace 9 AED machines that are 15 years old with updated bilingual versions. He would like to move forward with the purchase using funds from either the gift and donations account or the rental facilities account. The board agreed to move forward with the purchase for nine updated AED machines.

Stop the Bleed Kits- Dr. Meyer said he would like purchase one Stop the Bleed Station kit to see if it may be a product that we would like to have with the AED machines. The kits contain items to triage individuals until help is available. Dr. Meyer asked for the Board's approval to purchase one kit funding it from either the gift and donations or rental facilities account. The Board gave their approval.

Preliminary Cherry Sheet- Dr. Meyer reviewed the FY24 Preliminary Cherry Sheet estimates. He said the Chapter 70 funding is up \$1.9 million, the charter tuition is down approximately \$64,000 and the school choice receiving is down approximately \$30,000. The school choice sending tuition also went down. The town unrestricted government aid went up approximately \$55,000, this will be kept in mind during the budget process. He said when the Chapter 70 goes up and the money from the state goes up, the expected contribution from the town also increases. He said we have been above minimum contribution.

Budget Version A- Dr. Meyer said he met with the administration team last week and worked on the preliminary budget version A. He said the preliminary budget had a general fund increase of \$2.4 million, our goal for the meeting was to remove \$556,000 from the budget so we do not exceed the Chapter 70 increase. He said we were able to reduce it by \$200,000. Dr. Meyer reviewed the preliminary budget version A changes. There were a couple special education tuitions that were are no longer financially responsible for. We did budget for a full-time athletic director, we are going to cut that and keep the part time position. The part-time athletic director salary has been moved from the school choice account to the general fund, that way if we do want to add the full-time position it will come from the general fund. There is an unfilled SLIFE teacher position that was budgeted this year but it is unfilled so this was removed. They would like to add another Family Liaison to have one at each school to support the buildings. There was a proposed guidance counselor position budgeted at CES, this position will be removed keeping the CES school psychologist position. \$25,000 was budgeted for a new scoreboard at CHS, this was removed but will be reconsidered in the future. Some software and textbook purchases were budgeted however we anticipate being able to cover those with grants. CMS special education teacher is not needed at this time, will readdress in the future if needed. There was a reduction in salary due to retiree replacements. Dr. Meyer said he would like to talk to the Finance Committee to see what they are thinking, he would like the budget to work for both the town and school, and would like to get a firm proposal to the Finance Committee soon.

Chair Bailey asked when the approved budget is release from the state house. Dr. Meyer responded it is usually in June but due to the new Governor it may be pushed out. He said historically Chapter 70 money does not go down. Dr. Meyer said this is the third year of the Student Opportunity Act implementation, it is scheduled to be phased in over a six-year period. They are still making adjustments to the categories that are leading to our increase in Chapter 70, we could possible expect an increase in the coming years. He said we want to use the money to do the best for our students and keep an eye on sustainability. Dr. Meyer said he may try to introduce this budget to the Finance Committee at the All Boards meeting.

FC 186 immigrant Children and Youth Grant- Dr. Meyer spoke about the Title III, Part A: Immigrant Children and Youth grant. He said we have met the following criteria to be eligible: have 100 or more immigrant students in the district, the district's percentage of immigrant students who are low income needed to exceed 50%, the number of immigrant students enrolled in school year 2023 must be at least 10 more than the average of the prior two years, the percentage of immigrant students enrolled in school year 2023 must be at least 10 more than the average of the prior two years. This grant would help run summer school and would be an opportunity to help serve English Language Learners. Clinton is 1 of 29 districts in the state that is eligible for this grant. Dr. Meyer said we are seeing many of our families in the district doubling up in one household.

Safer Schools and Communities Initiatives- Dr. Meyer spoke about the Safer Schools and Communities Initiative grant. He said this is a competitive entitlement grant, we have not received this funding in many years. This grant would be used to address security concerns in the three schools and used to add additional exterior door keycard access to ensure doors remain locked at all times, it would address any PA system issues, and would be used to add more security cameras to address blind spots, it would also be used to address some Wi-Fi dead zone issues. The grant was written with the help of Chris Tahan, he applied for \$50,000 for each school.

All Boards Meeting- Dr. Meyer said the Building Committee will be meeting tomorrow. LPAA is going to walk the Committee through their preliminary designs, 2 renovation addition designs and 5 drafted options for new construction. The plan is to share ideas with the Building Committee tomorrow and present the designs again at the All Boards meeting scheduled for March, 15th at 6pm at the Town Hall. All are welcome to attend the All Boards meeting, individuals will register upon entering and will be given a sticker, this sticker will be used to vote on the individuals preferred design choice, there will also be an opportunity for community feedback. The design ideas will not have true dollar figures at this point, they will state if one design is more or less than the other. At the next Building Committee meeting they will look at those designs and try to choose three for further study, and at this time will have more accurate cost figures.

Academic Achievement- Dr. Meyer reviewed the academic achievement excerpt from the strategic plan. He said CES is looking at developing an instructional handbook, they will use the funds from the turnaround grant and then phase the handbooks through the other two schools in the district. Dr. Meyer said he feels we are in a good place with curriculum mapping. Dr. Meyer said we have to file the SOA report every year, he will share that report with the Board in April.

Signs/Scoreboards- Dr. Meyer said he is gathering quotes to replace the scoreboard at CHS and for a new digital message center outside of CES that could possibly also display town events. These items would be purchased from the rental facilities account or possibly the town's ARPA fund.

Chairperson's Report Advisory Committees Curriculum Committee- Nothing to report.

Safety Committee- Nothing to report.

Marketing Committee- Nothing to report.

Policies and Procedures Committee- Dr. Meyer spoke about Medical Policy JLCA – Physical Examinations of Students that was previously presented to the Board on February 13, 2023. This policy was held for further review and revisions. Slight wording changes have been made. Dr. Meyer asked the Board to review the changes and made a recommendation for approval. Vice Chair Varakis made a motion to approve Medical Policy JLCA – Physical Examinations of Students, Zapantis seconded. The motion passed 4-0

Facilities- Nothing to report.

Sub-Committee Negotiations- Nothing to report.

Old Business- Nothing to report.

New Business- Dr. Meyer congratulated Chair Brendan Bailey and Tena Zapantis for being recognized honorees at the Leprechaun Society event this Saturday.

Adjournment- At 7:55pm Zapantis moved and Vice Chair Varakis seconded to adjourn. The motion passed 4-0.

Respectfully Submitted,

Kelly Santucci

Kelly Santucci School Committee Secretary

Meeting Documents:

March 6, 2023 Agenda Schedule of Bills February 13, 2023 Minutes EF Tours Trip Summary Paris/Barcelona Staffing Updates CPS 2/14 Swatting Incident – Debrief Life Support Systems AED Quotations/Information FY24 Preliminary Cherry Sheets CPS Preliminary Budget to Budget Version A Changes 3/2/23 CPS FY24 Budget Version A FY23 Title III, Part A: Immigrant Children and Youth Grant Safer Schools and Communities Initiative Grant All Boards Memorandum Academic Achievement Strategic Plan JLCA Physical Examinations of Students Policy



PERMANENT BUILDING COMMITTEE SCHOOL BUILDING COMMITTEE SUB-COMMITTEE MEETING MINUTES

Project:	Clinton Middle School	Project No:	202000640305
Subject:	School Building Committee Meeting	Meeting Date:	06/20/2023
Location:	Clinton Middle School	Time:	6:30 PM
Distribution:	Attendees, Project File	Prepared By:	E. Grijalva

Present							
Name	Affiliation						
Michael Ward*	Town Administrator -PBC Member						
Brendon Bailey	School Committee Chair						
Steven Meyer*	Superintendent – PBC Member						
Brian Farragher	Director of Facilities						
Chris McGown*	Chair of PBC, Head of DPW						
Chris Magliozzi*	Vice-Chair of PBC						
Michael Moran*	PBC Member						
Brian Delorey*	PBC Member						
Phil Duffy	Director of Community & Econ. Dev.						
Trip Elmore	DWMP						
Elias Grijalva	DWMP						
Peter Caruso	LPAA						
Sean Brennan	LPAA						
Eric	LPAA						

*PBC Voting Members

Description

Action

13.1	Call to Order: 6:26 DA	A meeting w	as called to	o order by	PBC Chair (C. McGowr		Pacard			
	Call to Order : 6:36 PM meeting was called to order by PBC Chair C. McGown with 6 of 7 voting members in attendance.										
13.2	 Previous Topics & Approval of June 6, 2023, Meeting Minutes: A motion to approve the 06/06/2023 meeting minutes was submitted by S. Meyer and seconded by B. Delorey. Discussion: None. Abstentions: None 										
	All in favor, motion passes, June 6, 2023, meetings are certified as approved.										
13.3	Invoices and Commi	tments						Record			
	Invoice 1: Central Ma	ss Signal, LLC	C June Invo	oice, in the	amount of	\$29,687.5 ⁻	1				
	A motion was made b Central Mass Signal Ju Discussion : None. Abstentions: None	oy C. Maglioz ine Invoice.	zi and sec	onded by N	И. Moran fo	or the app	roval of the				
			- ·		nal luna Ini	voico for p	avment.				
13.4	All in favor, motion pa	eting Updat	ove Centra :e	ai Mass Sig			<u> </u>	Record			
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13.4	All in favor, motion pa Public All Boards Me T. Elmore briefly share on June 14, 2023 and option, which is repre Evaluation Criteria Enrollment Educational Program Fulfillment Space Summary Site & Facility Goals & Objective Energy Efficient & Utilities Construction Phasing Impact Estimated Local Share	eting Updat es a few pictu d shares the sented in the BR - 1 1 4 5-10 YRS \$113 - \$125M	ove Centra res from the estimated chart bel AR-1 700 3 3 4 4 4 4 4 4 4 878- \$86M	he All-Boar I local shar ow. AR-2 700 4 1 4 3 4 YRS \$86- \$95M	AR-1.5 700 3 2 4 4 4 4 4 574 - \$81M	NC-1 700 5 5 4 4 3 YRS \$83- \$92M	t took place ich building	Record			

T. Elmore briefly recaps each 700-enrollment building discussion and before voting proceeds.	option as a refresher for
AR 1(700) Mainly Repovation – 145 500 SOFTT	
• Total Project Cost Range	\$137 to \$151
 MSBA Reimbursement Range: 	\$58 to \$65
 Potential Local Share Range: 	\$78 to \$86
 Project Duration: 	4 years
 Disturbance to the learning environment: 	Very High
AR.2(700) Addition/Renovation – 156,000 SQFTT	
 Total Project Cost Range: 	\$148 to \$164
 MSBA Reimbursement Range: 	\$63 to \$69
 Potential Local Share Range: 	\$86 to \$95
 Project Duration: 	4 years
 Disturbance to the learning environment: 	High
0	
 AR.1.5(700) Addition/Renovation- 150,000 SQFT 	
 Total Project Cost Range: 	\$134 to \$148
 MSBA Reimbursement Range: 	\$60 to \$66
 Potential Local Share Range: 	\$74 to \$81
 Project Duration: 	4 years
 Disturbance to the learning environment: 	High
 NC.1(700) New Construction – 136,000 SQFT 	
 Total Project Cost Range: 	\$135 to \$149
 MSBA Reimbursement Range: 	\$52 to \$57
 Potential Local Share Range: 	\$83 to \$92
 Project Duration: 	3 years
 Disturbance to the learning environment: 	Low
Discussion:	

C.McGown shares that his two top options are AR1.5 & NC1.

C. Magliozzi agrees and states that one option satisfies the educational process. Our school committee and our school department have both said we have an educational problem and a programmatic problem, and you know doing the Base Repair doesn't solve it. Again, see what solves the problem the best and disrupts our children the least. I have a hard time essentially sentencing children for four years of the renovation project.

S. Meyer states that you can't overlook the disruption to students.

P. Duffy asks what the differences between AR1.5 and NC.1, in terms of fulfilling the educational program.

E. Moore explains in any of the reno options, we're constrained by the existing spaces such as the existing cafeteria and gymnasium. We can't move those spaces around. One of the things we talked about was having an area to come in and having that community use of the spaces and having a central area to access both of those. You can't do that when they are on opposite sides of the building. Also, since AR1.5 uses existing spaces, the rooms are not always going to be the right size for what you need and they're not always going to have the right relationship with each other.

S. Brennan additionally the other thing that was part of the educational program was to have a nice separation between the upper and lower school. AR1.5 doesn't quite accomplish that. However, in the new construction option, we have a building that is split.

T. Elmore states a renovation project versus new construction has very different risks associated with it. There are unknowns that you hit in a renovation project. When you're in the demo phase and you're trying to figure out how to replumb these first-floor areas. You're going to cut out most of these hallway slabs and do you influence any of the structural members underneath? All I'm trying to do here is point out the facts, that there will be unknowns and more risk. So, it's just a factor whereas new construction, you're doing it in sequence, do things in the proper order, and you're not going to impact what's in the ground.

P. Duffy asks if you have done soil testing.

T. Elmore explains that we have structural soil testing data from the last project, which saved the project money.

M. Moran asks what the next steps are.

T. Elmore replies that after you pick the option, we'll be moving forward into Schematic Design (SD), which refines the plans better.

M.Moran asks if there will there be any differences in operating costs in NC1 vs AR1.5.

E. Moore you get better insulation value in building option NC-1 versus AR1.5.

PBC vote for the preferred option.

A motion to submit option **NC1- 700 Enrollment**, as the PBC recommended building option for the PSR submission was made by C. Magliozzi, 2nd by B. Delorey.

Discussion: None

	All in favor, motion passes to ap	prove NC1-7	'00 enro	llment as th	e preferred option.						
13.6	Permanent Building Committee Vote to submit PSR to MSBA A motion to submit the Preferred Schematic Report to the MSBA was made by C. Magliozzi ,2 nd by B. Delorey.										
	Call VoteYesNoAbstain1Michael Wardx										
	3 Chris Magliozzi	х									
	4 Michael Moran	х									
	5 Brian Delory	х									
	6 Timothy O' Toole										
	7 Chris McGown	х									
13.7	Those AGAINST; ABST Motion: <u>Passes</u> (An official copy will be provided Discussion: None Local Actions Letter Approval T. Elmore explains that part of t which is standard MSBA languag open public meetings and that the Discussion: None	d for the PSR Letter the PSR subm ge on your let they have be	submiss nission is terhead en poste	sion) s to put toge that just sta ed. No votin	ether a local action letter ites that we've had these g needed.	Record					
13.8	Other Topics not Reasonably Discussion: None.	Anticipated	48 houi	rs prior to t	he Meeting.	Record					
13.9	Public Comment: Discussion: None					Record					
13.10	Next Meeting: • <u>07.18.2023</u> - CMS Buildi	ng Committe	e Virtua	I ZOOM Me	eting No.014 @ 6:30 PM	Record					
13.11	 <u>07.18.2023</u> - CMS Building Committee Virtual ZOOM Meeting No.014 @ 6:30 PM Adjourn: 7:39 PM A motion was made by S. Meyer and seconded by B. Delorey to adjourn the meeting. Discussion: None. All in favor, the meeting is adjourned. 										

Sincerely, DORE + WHITTIER Elias Grijalva Assistant Project Manager Project: Clinton Middle School Meeting: School Building Committee Meeting No. 013 – 06/20/2023 Page: 6

Cc: Attendees, File

The above is my summation of our meeting. Please contact me for incorporation into these minutes if you have any additions and/or corrections.



TOWN OF CLINTON

Office of the Selectmen 242 Church Street, Clinton, Massachusetts 01510 Tel: (978) 365-4120 • Fax: (978) 365 4130 BOARD OF SELECTMAN

Edward J. Devault Mary Rose Dickhaut Sean J. Kerrigan Matthew H. Kobus Julie K. Perusse

Michael J. Ward Town Administrator

06.30.2023

Ms. Mary Pichetti Director of Capital Planning 40 Broad Street Boston, Massachusetts 02109

Dear Ms. Pichetti:

The Town of Clinton School Committee (the "SC") understands the proposed change to the existing 5th to 8th-grade configuration that is being proposed in the *Preferred Schematic Report* for the Clinton Middle School project (the "Project"), and on February 13, 2023, the SC voted to approve and authorize the proposed change to the existing 5th to 8th Grade configuration for the following reason accommodate the growing student population of the Town of Clinton as described in the Feasibility Study related materials. A certified copy of the SC meeting minutes, which includes the specific language of the vote and the number of votes in favor, opposed, and abstained, are attached.

The SC has held a formal meeting regarding the proposed change to the existing 5th to the 8th-grade configuration as related to the proposed Project, in compliance with the state Open Meeting Law. This meeting was held:

School Committee Meeting

Date/Time: Monday, February 13, 2023 @ 7:00 PM Location: Clinton High School Library Topics: Superintendent Report, Chairperson's Report

In addition to the SC meetings listed above, the Town held a public meeting, which was posted in compliance with the state Open Meeting Law, at which the Project was discussed. All who attended this meeting were able to provide feedback regarding the 4-8 or 5-8 grade configuration, all feedback supported 4-8 building project options. This meeting was held:

Select Board Meeting

<u>Date/Time:</u> Wednesday, March 15, 2023 @ 6:00 PM <u>Location:</u> Clinton Town Hall, Fallon Auditorium <u>Topics:</u> Joint Meeting with School Committee, Finance Committee, Permanent/School Building Committee and Planning Board for presentation by Lamoureux Pagano Architects on the Clinton Middle School feasibility update

The presentation materials for each meeting, meeting minutes, and summary materials related to the Project are available locally for public review at



TOWN OF CLINTON

Office of the Selectmen 242 Church Street. Clinton, Massachusetts 01510 Tel: (978) 365-4120 • Fax: (978) 365 4130 BOARD OF SELECTMAN

Edward J. Devault Mary Rose Dickhaut Sean J. Kerrigan Matthew H. Kobus Julie K. Perusse

Michael J. Ward Town Administrator

Clinton Public Schools MA - YouTube

Current Year's Meeting Minutes - School Committee - Clinton Public Schools

Town of Clinton Agenda Center

To the best of my knowledge and belief, each of the meetings listed above complied with the requirements of the Open Meeting Law, M.G.L. c. 30A, §§ 18-25 and 940 CMR 29 et sea.

If you have any questions or require any additional information, please contact [insert name, title, and contact information].

By signing this Grade Reconfiguration and Districting Approval Certification, I hereby certify that, to the best of my knowledge and belief, the District in this Certification is true, complete, and accurate.

Auchart

By: **Michael Ward** Title: Chief Executive Officer

Date: 7 7 23

By signing this Grade Reconfiguration and Districting Approval Certification, Ι hereby certify that, to the best of my knowledge and belief, the information supplied by the information supplied by the District in this Certification is true. complete, and accurate.

By signing this Grade Reconfiguration and Districting Approval Certification, I hereby certify that, to the best of my knowledge and belief, the information supplied by the District in this Certification is true. complete, and accurate.

By:

Steven Meyer Title: Superintendent of Schools

By:

Brendan Bailey Title: Chair of the School Committee

Date: 7/7/23

Date: 7/7/23

School Committee Meeting High School Library Monday, March 6, 2023 7:00 PM

School Committee Members Present: Brendan Bailey, Matthew Varakis, Tena Zapantis, and Pam Gaw.

Administrators Present: Superintendent Steven Meyer, Loretta Braverman, Scott Czermak, Courtney Harter, and Meghan Silvo.

Others Present: Dave Derezinski, Robin Quist, Judy McGrail, Kimberly Friedrich, Kelly Turcotte, Paige Johnston, Michelle Elliot, and Kelly Santucci.

Media Present: Jan Gottesman remote

The meeting was called to order at 7:00 pm with a Pledge of Allegiance to the Flag followed by a Moment of Silence for Irving Murstein, father to Brenda Disessa.

Approval of Bills- Chair Bailey made a motion to approve the Schedule of Bills as presented. Zapantis moved and Vice Chair Varakis seconded to approve the Schedule of Bills as presented. The motion passed 4-0.

Approval of Minutes- Gaw moved and Zapantis seconded to approve the Minutes from the February 13, 2023 Meeting. The motion passed 4-0.

Public Comment- None at this time.

Student Representative- Paige Johnston reported the boys' basketball team won the Mid Wach C League and CMADA Tournament, the team has qualified for the State Tournament. There will be a blood drive at CHS on Thursday, March 16th from 8am to 1pm, you can register online with code M038, walk-ins are welcome. Dr. Meyer spoke about the digital ticket QR code required by the MIAA for admission ticket, he said this is not our regulation it is the MIAA. Clinton is only the host location for this event.

CTA- Robin Quist said they were able to have the February union meeting. She said they had positive discussion regarding the recent lockdown and are eager to have more training during the professional development day scheduled for March 13th. Quist said she noticed that the High School had curtains covering the windows by the doors in the classroom, she said this was a good idea and something she would like to incorporate at the Middle School. Quist said the teachers thought positively of the letter Dr. Meyer had written for the teachers to read to their students the day following the incident. Dr. Meyer mentioned that a survey will be given at the professional day to gather input for any concerns or suggestions. The board thanked Mrs. Quist.

PTA- Kelly Turcotte said the next meeting will be Wednesday, April 5th at 6:30 pm in the CES library. There will be a Family Bingo Night at the Middle School with some great raffle baskets held on Friday, March 10th, doors open at 5:30 pm, it is ten dollars to play. She thanked the community for helping with the raffle baskets. Turcotte reported that there will be changes to the Board, Shannon Abram has stepped down from her position of Co-Vice President, Kelly and Amy Bishop will be stepping down at the end of the school year. She is happy to say there is a new wave of parents that will bring the PTA to the next level. Turcotte expressed her thanks to all who had made this opportunity so amazing for her during her past years serving the Clinton Public Schools. She said it has been an honor and pleasure to work with so many parents, teachers, and administrators. Nominations for the board will take place in May, elections at the end of June.

SEPAC- Kelly Turcotte reported the next meeting will be held on Tuesday, March 7th at 6:30 pm in the CES library. Turcotte thanked BCBA Stacee LaBak for speaking at the last SEPAC meeting, she was a wealth of information and supportive to the families. There will be coffee with the Assistant Superintendent Director of Pupil Services on April 4th from 5-6pm in the CES library. This will be an informal time for parents and caregivers to ask questions and gain more information about Special Education. May 2nd is the Basic Rights meeting. They will continue to break down IEPs for parents and families through the rest of the year. The SEPAC will be running the concession stand at the play on March 24th and 25th. The proceeds will be split between the two SEPAC scholarships and the David S. Almond Memorial Scholarship. The Board thanked Kelly.

ELPAC- Nothing to report.

Superintendent Report

EF Tours – Paris/Barcelona Trip Details- CHS teacher Michelle Elliot addressed the Board and spoke about the upcoming trip to Paris and Barcelona. They will leave on April 14th and return on April 21st, spending 3 days in each country. They will depart CHS and be transported to the airport by Knight's Limo. Twenty-six students and four teacher chaperones will be traveling. The student travelers have purchased the global travel protection plan, students have signed a no alcohol permitted on tour contract, and have agreed to the rules of the road. At this time, the countries that they are visiting are not requiring COVID vaccines or proof of negative COVID tests. Masks will be provided if they are required to wear them in certain locations. If a traveler tests positive for COVID they will follow the local guidelines. The travel company COVID protection plan provides benefits related to hospital bills, doctor's fees, and medical transportation if required. Elliot said she will have updated information after the next meeting scheduled for March 30th. Dr. Meyer said it is nice that EF Tours have expanded the protections due to COVID and hopes they have a smooth trip.

Staffing Updates- Dr. Meyer reported Felicia Bradley and Stacee LaBak from CMS have both submitted maternity leave requests.

Business Manager- Dr. Meyer asked for the Board's recommendation to appoint Annette Colón from the Assistant Business Manager position to the full-time Business Manager position. Dr. Meyer said Mr. Fratto, the current part-time Business Manager will now be in a coaching type role instead of part-time. Vice Chair Varakis made a motion to execute Dr. Meyer's succession plan to appoint Annette Colón to the Business Manger positon, Zapantis seconded. The motion passed 4-0.

Debrief of 2/14 Incident- Dr. Meyer spoke about the swatting incident that occurred on February 14th. He said the incident being a hoax was the best result, it was a good learning experience. They will be looking to communicate more information on the lockdown and shelter in place guidelines to staff. There were some concerns with being in lockdown for the extended period of time. Most crisis situations are neutralized from a lockdown to a shelter in place within a matter of minutes; due to the nature of this incident we were in lockdown for longer period of time. Dr. Meyer said they will review the protocol at the professional development day scheduled for March 13th and have the staff complete a survey to gather more input. He also noted that the communication sent out to parents was an issue because the messages were not translated for non-English speaking families. In the future the calls will be translated in Spanish and Portuguese to make sure the information is more clear to all parents. The Family Outreach Liaisons will be helping with the translations. Another area of concern during the incident was cell phone use, Dr. Meyer said it is important to communicate to the students to keep the lines open during an emergency and to not send miss-information. Dr. Meyer said they will discuss protocol about door entry identification and the importance of individuals identifying themselves outside of a closed or locked door. He said overall the staff and students handled the situation well.

Zapantis said it was obvious how well prepared we were during the situation and said it was all handled well.

Judy McGrail made a comment that the communication to parents was outstanding.

Chair Bailey spoke about the importance of having a School Resource Officer and talked about how many town departments came together to help during the incident. He thanked Dr. Meyer for waiting to send accurate updates and spoke about the importance of the need for accurate information to address any social media rumors, he said the constant communication from the district put those rumors to rest. He applauded all departments that helped during this situation.

Dr. Meyer said everyone worked together.

Vice Chair Varakis commented on how well the staff came together and how organized the dismissal process was after the incident.

AED Purchase- Dr. Meyer spoke about the quotes for purchasing new AED machines. He said he would like to replace 9 AED machines that are 15 years old with updated bilingual versions. He would like to move forward with the purchase using funds from either the gift and donations account or the rental facilities account. The board agreed to move forward with the purchase for nine updated AED machines.

Stop the Bleed Kits- Dr. Meyer said he would like purchase one Stop the Bleed Station kit to see if it may be a product that we would like to have with the AED machines. The kits contain items to triage individuals until help is available. Dr. Meyer asked for the Board's approval to purchase one kit funding it from either the gift and donations or rental facilities account. The Board gave their approval.

Preliminary Cherry Sheet- Dr. Meyer reviewed the FY24 Preliminary Cherry Sheet estimates. He said the Chapter 70 funding is up \$1.9 million, the charter tuition is down approximately \$64,000 and the school choice receiving is down approximately \$30,000. The school choice sending tuition also went down. The town unrestricted government aid went up approximately \$55,000, this will be kept in mind during the budget process. He said when the Chapter 70 goes up and the money from the state goes up, the expected contribution from the town also increases. He said we have been above minimum contribution.

Budget Version A- Dr. Meyer said he met with the administration team last week and worked on the preliminary budget version A. He said the preliminary budget had a general fund increase of \$2.4 million, our goal for the meeting was to remove \$556,000 from the budget so we do not exceed the Chapter 70 increase. He said we were able to reduce it by \$200,000. Dr. Meyer reviewed the preliminary budget version A changes. There were a couple special education tuitions that were are no longer financially responsible for. We did budget for a full-time athletic director, we are going to cut that and keep the part time position. The part-time athletic director salary has been moved from the school choice account to the general fund, that way if we do want to add the full-time position it will come from the general fund. There is an unfilled SLIFE teacher position that was budgeted this year but it is unfilled so this was removed. They would like to add another Family Liaison to have one at each school to support the buildings. There was a proposed guidance counselor position budgeted at CES, this position will be removed keeping the CES school psychologist position. \$25,000 was budgeted for a new scoreboard at CHS, this was removed but will be reconsidered in the future. Some software and textbook purchases were budgeted however we anticipate being able to cover those with grants. CMS special education teacher is not needed at this time, will readdress in the future if needed. There was a reduction in salary due to retiree replacements. Dr. Meyer said he would like to talk to the Finance Committee to see what they are thinking, he would like the budget to work for both the town and school, and would like to get a firm proposal to the Finance Committee soon.

Chair Bailey asked when the approved budget is release from the state house. Dr. Meyer responded it is usually in June but due to the new Governor it may be pushed out. He said historically Chapter 70 money does not go down. Dr. Meyer said this is the third year of the Student Opportunity Act implementation, it is scheduled to be phased in over a six-year period. They are still making adjustments to the categories that are leading to our increase in Chapter 70, we could possible expect an increase in the coming years. He said we want to use the money to do the best for our students and keep an eye on sustainability. Dr. Meyer said he may try to introduce this budget to the Finance Committee at the All Boards meeting.

FC 186 immigrant Children and Youth Grant- Dr. Meyer spoke about the Title III, Part A: Immigrant Children and Youth grant. He said we have met the following criteria to be eligible: have 100 or more immigrant students in the district, the district's percentage of immigrant students who are low income needed to exceed 50%, the number of immigrant students enrolled in school year 2023 must be at least 10 more than the average of the prior two years, the percentage of immigrant students enrolled in school year 2023 must be at least 14.5% higher than the average of the prior two years. This grant would help run summer school and would be an opportunity to help serve English Language Learners. Clinton is 1 of 29 districts in the state that is eligible for this grant. Dr. Meyer said we are seeing many of our families in the district doubling up in one household.

Safer Schools and Communities Initiatives- Dr. Meyer spoke about the Safer Schools and Communities Initiative grant. He said this is a competitive entitlement grant, we have not received this funding in many years. This grant would be used to address security concerns in the three schools and used to add additional exterior door keycard access to ensure doors remain locked at all times, it would address any PA system issues, and would be used to add more security cameras to address blind spots, it would also be used to address some Wi-Fi dead zone issues. The grant was written with the help of Chris Tahan, he applied for \$50,000 for each school.

All Boards Meeting- Dr. Meyer said the Building Committee will be meeting tomorrow. LPAA is going to walk the Committee through their preliminary designs, 2 renovation addition designs and 5 drafted options for new construction. The plan is to share ideas with the Building Committee tomorrow and present the designs again at the All Boards meeting scheduled for March, 15th at 6pm at the Town Hall. All are welcome to attend the All Boards meeting, individuals will register upon entering and will be given a sticker, this sticker will be used to vote on the individuals preferred design choice, there will also be an opportunity for community feedback. The design ideas will not have true dollar figures at this point, they will state if one design is more or less than the other. At the next Building Committee meeting they will look at those designs and try to choose three for further study, and at this time will have more accurate cost figures.

Academic Achievement- Dr. Meyer reviewed the academic achievement excerpt from the strategic plan. He said CES is looking at developing an instructional handbook, they will use the funds from the turnaround grant and then phase the handbooks through the other two schools in the district. Dr. Meyer said he feels we are in a good place with curriculum mapping. Dr. Meyer said we have to file the SOA report every year, he will share that report with the Board in April.

Signs/Scoreboards- Dr. Meyer said he is gathering quotes to replace the scoreboard at CHS and for a new digital message center outside of CES that could possibly also display town events. These items would be purchased from the rental facilities account or possibly the town's ARPA fund.

Chairperson's Report Advisory Committees Curriculum Committee- Nothing to report.

Safety Committee- Nothing to report.

Marketing Committee- Nothing to report.

Policies and Procedures Committee- Dr. Meyer spoke about Medical Policy JLCA – Physical Examinations of Students that was previously presented to the Board on February 13, 2023. This policy was held for further review and revisions. Slight wording changes have been made. Dr. Meyer asked the Board to review the changes and made a recommendation for approval. Vice Chair Varakis made a motion to approve Medical Policy JLCA – Physical Examinations of Students, Zapantis seconded. The motion passed 4-0

Facilities- Nothing to report.

Sub-Committee Negotiations- Nothing to report.

Old Business- Nothing to report.

New Business- Dr. Meyer congratulated Chair Brendan Bailey and Tena Zapantis for being recognized honorees at the Leprechaun Society event this Saturday.

Adjournment- At 7:55pm Zapantis moved and Vice Chair Varakis seconded to adjourn. The motion passed 4-0.

Respectfully Submitted,

Kelly Santucci

Kelly Santucci School Committee Secretary

Meeting Documents:

March 6, 2023 Agenda Schedule of Bills February 13, 2023 Minutes EF Tours Trip Summary Paris/Barcelona Staffing Updates CPS 2/14 Swatting Incident – Debrief Life Support Systems AED Quotations/Information FY24 Preliminary Cherry Sheets CPS Preliminary Budget to Budget Version A Changes 3/2/23 CPS FY24 Budget Version A FY23 Title III, Part A: Immigrant Children and Youth Grant Safer Schools and Communities Initiative Grant All Boards Memorandum Academic Achievement Strategic Plan JLCA Physical Examinations of Students Policy



CLINTON PUBLIC SCHOOLS

150 School Street Clinton, Massachusetts 978-365-4200 FAX: 978-365-5037 Email: smeyer@clinton.k12.ma.us SCHOOL COMMITTEE

Brendan Bailey Joel Bates Pam Gaw Matthew Varakis Tena Zapanits

Dr. Steven Meyer Superintendent

March 7, 2023

REGARDING: Grade Configuration for the Clinton Middle School Project

To Whom It May Concern,

On February 13th, during open-session of a Clinton Public School School Committee meeting, the School Committee unanimously voted in favor of pursuing a 4-8 grade configuration with an enrollment of 700 students for the Clinton Middle School MSBA project. A copy of the approved minutes reflecting this vote are attached to this letter.

Prior to making this decision, the School Committee was presented with information regarding the current enrollment of the district. The handout that was included in the school committee packet is attached to this letter. The summary of CPS enrollment can be seen in the table below:

	CPS Enrollment												
	22-23												
CES	680	824	837	755	817	840							
CMS	746	578	603	581	578	545							
CHS	457	456	460	491	510	587							
Total	1883	1858	1900	1827	1905	1972							

The decision for this grade configuration came down to two main reasons:

- Unanticipated Growth in the District: the enrollment at CPS continues to climb, and many of these students are immigrating to the United States and doubling up with other family members. This is a growth factor that we do not feel was accounted for in the enrollment certification process. The school committee does not want to invest significant resources into a project and then have the district run out of space.
- The need for Space at Clinton Elementary School: Grade four was in the Middle School up until the 17-18 school year. At that time, the fourth grade was moved to CES due to the large "bubble grades" at CMS. CES currently has a long waitlist for Pre-Kindergarten, and we are expecting universal Pre-K to be a reality in the near future. CPS needs the space at CES for early childhood education.

The only concern expressed regarding moving in this direction was the cost of the project and the question regarding the cost differential of building a school for 700 students in grades 4-8 versus the cost of building one for 550 students in grade 5-8.

Also, it should be noted that the school committee made this decision with the understanding that all MSBA Projects are done to support the educational programming of the building. Thus, if fourth grade

students are located in the building then the building project will plan to have areas that are developmentally appropriate for fourth grade students.

If you have any questions regarding this vote, please feel free to contact my office at (978) 365-4200.

Sincerely,

Steven C. Meyer, Ed.D. Superintendent

MSBA Module 3

Feasibility Study PSR

700 STUDENT ENROLLMENT





3.3.4 Preferred Solution D. Building Floor Plans

TOTAL AREA: 136,000 GSF

1st FLOOR: 84,000 GSF 2nd FLOOR: 52,000 GSF


Feasibility Study PSR

700 STUDENT ENROLLMENT





3.3.4 Preferred Solution D. Building Floor Plans

TOTAL AREA: 136,000 GSF





Feasibility Study PSR

700 STUDENT ENROLLMENT





3.3.4 Preferred Solution D. Building Floor Plans

TOTAL AREA: 136,000 GSF







Feasibility Study PSR

700 STUDENT ENROLLMENT





3.3.4 Preferred Solution D. Building Floor Plans

TOTAL AREA: 136,000 GSF





MSBA Module 3 Feasibility Study PSR



NOTES:



3.3.4 PREFERRED SOLUTION x. Dropoff Diagram

New Construction New Athletic Field Existing Building

Bus Circulation Parent Circulation Access Road



Feasibility Study PSR

700 STUDENT ENROLLMENT

PARENT DROP OFF





3.3.4 Preferred Solution D. Building Floor Plans

TOTAL AREA: 136,000 GSF



Feasibility Study PSR

700 STUDENT ENROLLMENT





3.3.4 Preferred Solution D. Building Floor Plans

TOTAL AREA: 136,000 GSF





Feasibility Study PSR

700 STUDENT ENROLLMENT





3.3.4 Preferred Solution D. Building Floor Plans

TOTAL AREA: 136,000 GSF





Feasibility Study PSR

700 STUDENT ENROLLMENT





3.3.4 Preferred Solution D. Building Floor Plans

TOTAL AREA: 136,000 GSF



				Clinton Middle School Project
Fask Name	Duration	Start	Finish	2023 2024 2025 2026 2027 2028
MSBA Module 2 - 7	1640 days?	Fri 8/5/22	Thu 11/16/28	Qtr3 Qtr4 Qtr1 Qtr2 Qtr1 Qtr2 Qtr3 Qtr4 Qtr3 Qtr4 Qtr1 Qtr2 Qtr3 Qtr4 Qtr1 Qtr2 Qtr3 Qtr4 Qtr3 Qtr4 Qtr3 Qtr4 Qtr3 Qtr4 <th< th=""></th<>
Mod 2 - Architect selection process	57 days	Fri 8/5/22	Mon 10/24/22	
Module 3 - Feasibility Study	181 days	Wed 12/21/22	Wed 8/30/23	
Preferred Design Program (PDP)	90 days	Wed 12/21/22	Tue 4/25/23	
MSBA Kick off meeting	1 day	Fri 1/6/23	Fri 1/6/23	
Introduction	5 days	Wed 12/21/22	Tue 12/27/22	- h
Educational Program	20 days	Wed 12/28/22	Tue 1/24/23	
Initial Space Summary	10 days	Wed 1/25/23	Tue 2/7/23	
Evaluation of exisitng conditions	15 days	Wed 2/8/23	Tue 2/28/23	
Site development requirements	15 days	Wed 2/8/23	Tue 2/28/23	
Preliminary evaluation of Options	15 days	Wed 3/1/23	Tue 3/21/23	
Local actions and approvals	1 day	Wed 3/22/23	Wed 3/22/23	
Submit PDP to MSBA	4 days	Thu 3/23/23	Tue 3/28/23	
MSBA Review of PDP	20 days	Wed 3/29/23	Tue 4/25/23	
MSBA PDP review and Comment	15 days	Wed 3/29/23	Tue 4/18/23	
Respond to MSBA PDP Comments	5 days	Wed 4/19/23	Tue 4/25/23	
Final evoluation of of alternatives	20 days	Fri 4/7/23	Wed 8/30/23	
Proferred solution	25 days	F114/7/23	Thu 6/15/23	
Local action and annrovals	7 days	Fri 6/16/23	Mon 6/26/23	
Submit PSR to MSRA	1 day	Tue 6/27/23	Tue 6/27/23	
MSBA Board Approval to proceed with schematic design 8/30/	2 46 davs	Wed 6/28/23	Wed 8/30/23	
MSBA staff review	20 days	Wed 6/28/23	Tue 7/25/23	
MSBA PSR review and comment	15 days	Wed 6/28/23	Tue 7/18/23	
Respond to MSBA PSR comments	5 days	Wed 7/19/23	Tue 7/25/23	
Facilities assessment subcommittee review	31 days	Wed 7/19/23	Wed 8/30/23	
FAS Mtg #1	1 day	Wed 7/19/23	Wed 7/19/23	
FAS Mtg #2 (if required)	1 day	Wed 8/2/23	Wed 8/2/23	
Respond to FAS comments	5 days	Thu 8/3/23	Wed 8/9/23	
MSBA Board Approval - 8-30-23	1 day	Wed 8/30/23	Wed 8/30/23	h
Module 4 - Schematic Design	169 days	Fri 9/1/23	Wed 4/24/24	
MA Historical Com.	56 days	Fri 9/1/23	Fri 11/17/23	
Assemble documentation to submit PNF	30 days	Fri 9/1/23	Thu 10/12/23	
MHC review and response	26 days	Fri 10/13/23	Fri 11/1//23	
Deed Registration	100 days	Tue 8/1/23	Mon 12/18/23	
Compile Deed Information	45 uays	Tue 6/1/25	Mon 11/27/22	
Prenare DEED for Recording	10 days	Tue 11/28/23	Mon 12/11/23	
Record DEED for Recording	5 days	Tue 12/12/23	Mon 12/11/23	
SD Submission Development	169 days	Thu 8/31/23	Tue 4/23/24	
DESE Submittal Development	120 days	Thu 8/31/23	Wed 2/14/24	
Schematic Design Binder	85 days	Thu 8/31/23	Wed 12/27/23	
Schematic Design Project Manual	85 days	Thu 8/31/23	Wed 12/27/23	
Schematic Design Drawings	85 days	Thu 8/31/23	Wed 12/27/23	
Schematic Design Estimating	20 days	Thu 12/28/23	Wed 1/24/24	
SD Estimate Reconciliation & Budget	6 days	Thu 1/25/24	Thu 2/1/24	
Local Actions and Approval	15 days	Fri 2/2/24	Thu 2/22/24	
Submit SD to MSBA	1 day	Fri 2/23/24	Fri 2/23/24	
Review and approve SD submission	25 days	Mon 2/26/24	Fri 3/29/24	
MSBA Staff review	25 days	Mon 2/26/24	Fri 3/29/24	
MSBA SD review and comment	15 days	Mon 2/26/24	Fri 3/15/24	
Final submission review	10 days	Mon 3/18/24	Fri 3/29/24	
MSPA Poard approval, date TPD	1 Udy	Tuo 4/2/24	Mon 4/1/24	
MSBA Board Action Latter Issued	15 uays	Tue 4/2/24	Tuo 4/22/24	
DESE review and approval letter	1 days	Mon 3/18/24	Tue 4/23/24	
Module 5 - Funding the Project	50 days	Tue 4/23/24	Mon 7/1/24	
Project scope and budget agreement	10 days	Wed 4/24/24	Tue 5/7/24	
Total Project Budget & Exhibit Development	3 days	Wed 4/24/24	Fri 4/26/24	
Reimbursment rate - signed Certification	3 days	Mon 4/29/24	Wed 5/1/24	
Prerequisits to MSBA Execution of PS&B	3 days	Mon 4/29/24	Wed 5/1/24	
Send MSBA PS&B Package for execution	2 days	Thu 5/2/24	Fri 5/3/24	
PS&B Executed	2 days	Mon 5/6/24	Tue 5/7/24	
Local Authorization for funding (120 days)	35 days	Tue 4/23/24	Mon 6/10/24	
CMS - New Construction	Summary	0	Inactive Miles	tone Ouration-only Start-only External Milestone Manual Progress
08.01/2023 Split	Project Summar	y I	Inactive Summ	hary Manual Summary Rollup Finish-only Deadline
Milestone 🔶	Inactive Task		Manual Task	Manual Summary External Tasks Progress

Module 3

Page 1



CMS - New Construction 08.01/2023	Task Split Milestone	•	Summary Project Summary Inactive Task	Inactive Milestone Inactive Summary Manual Task	¢ 1 1	Duration-only Manual Summary Rollup Manual Summary	Start-only Finish-only External Tasks	C 3	External Milestone Deadline Progress	* +	Manual Progress
Module 3						· ·	Page 2				

		2027			1	2028		1	
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TOWN OF CLINTON

Office of the Selectmen 242 Church Street Clinton, Massachusetts 01510 Tel: (978) 365-4120 • Fax: (978) 365-4130

BOARD OF SELECTMEN

Edward J. Devault Mary Rose Dickhaut Sean J. Kerrigan Matthew H. Kobus Julie K. Perusse

Michael J. Ward Town Administrator

To whom it may concern:

In response to MSBA PSR review comments, the Town of Clinton has updates to section 3.3.2.

The PSR review comments note that the Town of Clinton's anticipated completion date for recording the updated property DEED is "the end of summer (2023)", as represented below.

"The Town of Clinton continues to work with National Grid (NGRID) to record a previous land swap on the existing middle school property relative to overhead electric transmission lines that were relocated to accommodate the construction of the middle school in 1976. The Town's continued understanding is that the formal recording of the deed is not expected to impact the project timeline."

Furthermore, a letter was provided from the Town Administrator regarding this matter that states: "It is anticipated that **these documents will be finalized and officially recorded by the end of summer**."

In correspondence between the Town of Clinton and NGRID, it has been determined that a resurvey of the property will need to take place to identify and locate ground structures and improvements to the property along the easement before it is recorded. As this is a new request as of end of July 2023, the goal to record the DEED by the end of the summer is not achievable. However, as will be documented in the project schedule, we have a plan to perform a new survey in the fall and then record the DEED in December or January. This will not impact the Schematic Design submission nor the Project Scope and Budget process.

As it relates to the project schedule and costs associated with the DEED recording, as it noted below:

"In response to these review comments, incorporate the timeline associated with completing the **work identified above into the overall project schedule**. Also, please note and acknowledge that all cost increases subsequent to a Project Scope and Budget Approval from the MSBA's Board of Directors will be the **sole responsibility of the District and considered ineligible for reimbursement**."

The OPM, Dore and Whittier Management Partners will include the DEED process in the updated project schedule and the Town of Clinton acknowledges that the costs and cost impacts of the resolution of the DEED recording are the sole responsibility of the Town and are not reimbursable by the MSBA grant funding.

Sincerely,

pricharlywood

Michael J. Ward Town Administrator <u>mward@clintonma.gov</u>

4.1.2 SCHEMATIC DESIGN BINDER

- B. Final Design Program
 - 1. Design Program Narrative
 - 2. Educational Space Summary
 - 3. Narrative of Space Summary Changes
 - 4. Educational Program Narrative
 - 5. Instructional Technology
 - Functional Relationships & Adjacencies
 - 7. Security & Visual Access
 - 8. Site Development Requirements
 - 9. Visual or Aesthetic Focal Points

Since the PSR Submission, the Design Team and the Executive Committee have hosted numerous meetings with School, District and Town representatives to determine the detailed requirements for each of the spaces within the proposed Clinton Middle School. This information was carefully documented and inserted into the Room Data Sheets, which will serve as a reference throughout the design and construction process. The following Program Meetings were held during the SD phase:

- September 6, 2023 | Special Education Meetings
 - o OT/PT
 - o Calming
 - o Offices
 - Conference Room
 - Resource Room/Speech
 - o Small Group Room/Reading
- September 6, 2023 | Custodial/Maintenance Meetings
 - o Custodian Office
 - Custodian Workshop
 - o Custodian Storage
 - o Recycling/Trash
 - Receiving/General Supply
 - o Exterior Equipment Storage
 - o Tel/Data
 - Student Toilet Rooms
 - o Janitor Closets
- September 6, 2023 | Medical Suite Meetings
 - Nurse's Office/Waiting
 - Exam Rooms/Resting
 - Medical Supply Staff Lunchroom





4.1.2 SCHEMATIC DESIGN BINDER

Schematic Design

B. Final Design Program

1. Narrative

- September 7, 2023 | Guidance Suite Meetings
 - Guidance Reception/Waiting
 - Guidance Offices
 - Executive Functioning
 - Guidance Storage
 - Outside Provider Office
- September 7, 2023 | Special Education Meetings
 - Self-Contained SPED (TLC)
 - Self-Contained SPED (ABA)
 - Self-Contained (SPED (Life Skills)
 - Adult Daily Living
 - o SPED Toilets
 - SPED Liaison
- September 7, 2023 | Food Service Meetings
 - o Cafetorium
 - o Stage
 - Chair/Table Storage
 - o Kitchen
 - o Servery
 - Staff Lunchroom
- September 13, 2023 | Administration Suite Meetings
 - Reception/Waiting
 - o Mail Room
 - o Work Room
 - Records Room
 - Principal Office
 - Assist. Principal Office
 - o Office (SRO)
 - Conference Room





4.1.2 SCHEMATIC DESIGN BINDER

Schematic Design

B. Final Design Program

1. Narrative

- September 13, 2023 | General Education Meetings
 - General Classrooms
 - Collaborative Work Areas
 - o Small Group Seminar
 - Teacher Planning
- September 13, 2023 | Media Center/Maker Space Meetings
 - o Media Center
 - o Maker Space
- September 14, 2023 | Science/Technology Meetings
 - o Science Labs
 - o Prep Rooms
 - o Central Chemical Storage
 - o Industrial Arts
 - Computer Science
 - Life Science
 - Prep Room/Storage
- September 22,2023 | Health/PE Meetings
 - Wellness Classroom
 - o Gymnasium
 - Gymnasium Storage
 - o Office
 - o Locker Rooms
 - Outdoor Amenities





4.1.2 SCHEMATIC DESIGN BINDER

Schematic Design

B. Final Design Program

1. Narrative

- September 22,2023 | Art/Music Meetings
 - Art Classroom
 - Art Storage/Kiln
 - o Band
 - Music Practice/Ensemble
 - Music Storage
 - Stage (Music Classroom)

Beyond the Room Data Sheet documentation, the following major elements were significantly advanced during Schematic Design:

- DESE Special Education submission
- Systems requirements
- Sustainable Design objectives
- Code requirements
- Security strategy

The Room Data Sheets in section 4.1.2.L serve as minutes for the programming meetings.





ARCHITECTURAL CHARACTERISTICS

The design of the proposed Clinton Middle School was developed in response to the site, the City/District's programmatic needs, operating and maintenance capabilities, and the desire for a more fulfilling educational environment for the community as well as the school constituents. The following are key criteria that informed the design:

- Overall Context: The Clinton Public School's strategic goals, Clinton's deep history as an industrial mill town, the location adjacent to Wachusett reservoir, Veteran's Athletic Complex, State swimming pool, Clinton High School, and the neighborhood vicinity all are key factors that guided the design development.
- Scale: Effectively modulate the building and site features to ensure a welcoming aesthetic for this particular age group and a modern reflection of the Town's brick masonry construction. Organize the building components to reduce the overall scale of the project by integrating exterior courtyards, material usage, and scale of building elements.
- Circulation: Provide a hierarchy of clear and easily recognizable circulation routes; both inside and outside of the building. Interior circulation is designed for safe and efficient flow of students transitioning between classes with core facilities centrally located and multiple connecting stairs. Lockers are located primarily in each grade level neighborhood to keep the main circulation spine clear of obstructions and bottlenecks. Exterior pedestrian circulation is designed to safely accommodate the large numbers of students to and from school on sidewalks and marked/raised crosswalks. Exterior vehicular circulation and parking is described in more detail in Section 4.1.2.C but is designed to separate bus traffic from staff/faculty, student and parent drivers.
- Flexibility: Provide capability for after-hours use of community spaces (Gym, Cafetorium/Kitchen, Media Center/Maker Space, Art Rooms etc.) without allowing free access to the core academic part of the building. Develop classroom wings to be reassigned as needed to accommodate curriculum needs as they evolve over the decades.
- Daylighting: Views to the exterior were optimized as an orientation feature as well as for the majority of the spaces where natural daylight is desirable. The central lobby features a large skylight that spans the entire length of the lobby. This main circulation spine has views to the west out the main entry doors and out to the main parking lot and views to the east out through the media center to the exterior courtyard. Main corridors running north/south have view out to



the exterior to help orient occupants, Academic Wings Utilize collaborative areas and daylighting from skylights to also help orient occupants. Since the building oriented primarily on the east-west axis, the focus will be to provide sun shading at the south side of the building where the strongest sun axis is anticipated, primarily the cafetorium.

- Construction impact: Minimize construction impact due to phasing for students and staff/faculty. Because the existing school is proposed to remain in use during construction of the new facility, the proposed building footprint must be far enough away from the existing school to allow construction traffic and emergency egress. New construction will not impact existing parking areas, however, utilities and emergency vehicle access will be impacted; temporary solutions are needed to mitigate their loss or interruption.
- Safety and security: Comply with City/District safety and security guidelines. Refer to security and visual access requirements narrative included in this section.
- Sustainability: Achieve LEED-S v.4 certification with the goal of 50–59 points for "Silver" rating.
- Materials: Provide interior and exterior materials that are durable, easily maintained and reflective of the contemporary educational program and the characteristics of the town.
- Educational Organization: Develop decreet yet connected neighborhood grade level wings (4–6) and 7 & 8th grade STEM and Humanities neighborhoods, fully integrated special education programs, faculty planning rooms, collaborative areas to support integrated projects and other curriculum opportunities, centralized core facilities easily separated for community use.
- Entrances: Provide one major entrance for all with modulated visitor access through the administration reception area during school hours. Secondary entrance along the north side to support parent pick-up and drop off and primary access route to the athletic field.
- Campus experience: develop the site with clear parking and athletic field organization while amplifying outdoor learning experiences and connections to the campus and reservoir. Through judicious landscaping, reduce heat island effect of impervious area, provide biodiversity for low maintenance and sustainable planting, and strengthen campus and neighborhood context.





					PROPOSED PROGRAM								Date: [Enter Date] [Enter Submittal]						
[ENTER DISTRICT NAME] [ENTER SCHOOL NAME]	EXI	ISTING CONDI	ITIONS	E	EXISTING TO REMAIN / RI	ENOVATED	NE	W CONSTRUCT	TION		TOTAL		VARIAT	ION TO MSBA	GUIDELINES		(Refe	MSBA er to Educationa	GUIDELINES (DO NOT MODIFY) I Facility Planning for additional information)
ROOM TYPE	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	F	ROOM # OF NFA ¹ ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	COMMENTS
CORE ACADEMIC			29,780			0			35,220			35,220			-850			36,070	STE Guidelines Policy
(List rooms of different sizes separately)		I						1			1			I			1		
General Classroom			0			0							-900	-28	-25,200	900	28	25,200	850 NSF (minimum size) - 950 NSF (maximum size)
General Classroom - 4th Grade			0			0	900	6	5,400	900	6	5,400	900	6	5,400				
General Classroom - 5th Grade		8	6,919			0	900	6	5,400	900	6	5,400	900	6	5,400				
General Classroom - 6th Grade		7	5,895			0	900	6	5,400	900	6	5,400	900	6	5,400				
General Classroom - Math - 7&8 Grade		3	2,344			0	900	3	2,700	900	3	2,700	900	3	2,700				
General Classroom - English Language Arts - 7&8 Grade		3	2,454			0	900	3	2,700	900	3	2,700	900	3	2,700				
General Classroom - Social Studies - 7&8 Grade		3	2,395			0	900	3	2,700	900	3	2,700	900	3	2,700	500	2	1 000	
Small Group Seminar (20-30 seats)		3	3,183			0	450	5	2,250	450	5	2,250	-50	3	1,250	500	2	1,000	
Collaborative Work Area - 4-6 Grade			0			0	/50	3	2,250	/50	3	2,250	/50	3	2,250				
			0			0	U	U	0	U	U	0	0	0	0				
Science, Technology, Engineering (STE) Room (Grades 4-6)		2	1,941			0	0	0	0	0	0	0	-1,080	-4	-4,320	1,080	4	4,320	1,080 NSF (minimum size); Refer to the <u>STE Guidelines</u> for additional information.
STE Storage Room		1	437			0	0	0	0	0	0	0	-120	-4	-480	120	4	480	Minimum of (1) 120 NSF STE Storage Room required per STE Room; Refer to the <u>STE Guidelines</u> for additional information.
Science Classroom / Lab (Grades 7&8)		3	3,024			0	1,440	3	4,320	1,440	3	4,320	0	0	0	1,440	3	4,320	Assumed schedule: 1 period per day per student; 1,440 NSF (minimum size); Refer to the <u>Science Lab Guidelines</u> for additional information
Prep Room		2	500			0	200	3	600	200	3	600	0	0	0	200	3	600	(1) 200 NSF Prep Room required per Science Classroom / Lab
Central Chemical Storage Room			0			0	150	1	150	150	1	150	0	0	0	150	1	150	(1) 150 NSF Central Chemical Storage Room required
Teacher Planning		2	688			0	450	1	450	450	1	450	450	1	450				
Classroom Executive Functioning			0			0	900	1	900	900	1	900	900	1	900				
														-					
SPECIAL EDUCATION			10.650			0			14.180			14.180			6.130			8.050	Special Education spaces require DESE review and approval.
(List rooms of different sizes separately)																			
Self-Contained Special Education Classroom		5	3,925			0							-950	-5	-4,750	950	5	4,750	850 NSF (minimum size) - 950 NSF; equal to the size of the proposed General Classrooms that serve the same student population.
Self-Contained Special Education Classroom - TLC			0			0	900	2	1,800	900	2	1,800	900	2	1,800				
Self-Contained Special Education Classroom - ABA			0			0	900	1	900	900	1	900	900	1	900				
Self-Contained Special Education Classroom - Life Skills			0			0	900	1	900	900	1	900	900	1	900				
Adult Daily Living			0			0	450	1	450	450	1	450	450	1	450				
Self-Contained Special Education Toilet Room			0			0	90	1	90	90	1	90	90	1	90			7	
Self-Contained Special Education Toilet Room			0			0	190	1	190	190	1	190	130	-4	-110	60	5	300	
Special Education Liason - 4th Grade		1	796			0	900	1	900	900	1	900	900	1	900				
Special Education Liason - 5th Grade		1	830			0	900	1	900	900	1	900	900	1	900				
Special Education Liason - 6th Grade		1	693			0	900	1	900	900	1	900	900	1	900				
Special Education Liason - 7th Grade		1	784			0	900	1	900	900	1	900	900	1	900				
Special Education Liason - 8th Grade		1	799			0	900	1	900	900	1	900	900	1	900				
Calming [Grade 4-6]		1	319			0	100	2	200	100	2	200	100	2	200				
Calming [Grade 7-8]		1	319			0	100	1	100	100	1	100	100	1	100				
OT/PT			0			0	900	1	900	900	1	900	900	1	900				
Office - OT/PT		1	373			0	150	1	150	150	1	150	150	1	150				
Office - Adjustment Counselor TLC		1	296			0	100	2	200	100	2	200	100	2	200				
Office - BCBA		1	373			0	150	1	150	150	1	150	150	1	150				
Office - Psychologist			0			0	150	1	150	150	1	150	150	1	150				
SPED Conference room			0			0	350	1	350	350	1	350	350	1	350				
Resource Room		2	684			0	450	5	2,250	450	5	2,250	-50	1	250	500	4	2,000	1/2 size of a General Classroom
Small Group Room		<u>1</u>	459			0	450	2	900	450	2	900	-50	0	-100	500	2	1,000	1/2 size of a General Classroom
Public Day Education Spaces (List rooms separately below)								· 									· 		
Collaborativo Program Spaces // ist rooms constately below												1							
Conaborative Program Spaces (List rooms separately below)												1							
								L			L	I							
ART & MUSIC			5,960			0			5,100			5,100			500			4,600	
Art Classroom		2	1,967			0	1,200	2	2,400	1,200	2	2,400	0	0	0	1,200	2	2,400	Assumed schedule: 50% total enrollment; 2 times per week
l		1				I		1		l	1		L			I	1		

							PR	OPOSED PROG	RAM							
[ENTER DISTRICT NAME] [ENTER SCHOOL NAME]	EXI	STING CONDIT	TIONS	EXISTING	TO REMAIN / F	RENOVATED	NE		TION		TOTAL		VARIATION TO MSBA GUIDELINES			
ROOM TYPE	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	
Art Workroom with Storage and Kiln		1	143			0	150	2	300	150	2	300	0	0	0	
Band / Chorus (100 seats)		2	2,810			0	1,500	1	1,500	1,500	1	1,500	0	0	0	
Music Practice / Ensemble		1	91			0	200	2	400	200	2	400	0	0	0	
Music Storage		2	780			0	250	2	500	250	2	500	250	2	500	
Music Office		1	169			0	0	0	0	0	0	0	0	0	0	
VOCATIONS & TECHNOLOGY			2,986			0			4,320			4,320			0	
Technology / Engineering Rooms			0			0			4,520			-,520	-1,440	-3	-4,320	
Industrial Arts		2	2,620			0	1,440	1	1,440	1,440	1	1,440	1,440	1	1,440	
Computer Science		1	74			0	1,440	1	1,440	1,440	1	1,440	1,440	1	1,440	
Life Science		1	292			0	1,440	1	1,440	1,440	1	1,440	1,440	1	1,440	
Prep Room & Storage [Included in classroom spaces]			0			0			0	U	0	0	U	0	0	
HEALTH & PHYSICAL EDUCATION		I	12,951		1	0		1	9,400		1	9,400			1,000	
Gymnasium		1	8.723			0	7.000	1	7.000	7.000	1	7.000	1.000	0	1.000	
Gym Storeroom		2	663			0	150	1	150	150	1	150	0	0	0	
Health Instructor's Office with Shower and Toilet		2	234			0	250	1	250	250	1	250	0	0	0	
Locker Rooms - Boys and Girls with Toilets		2	3,331			0	1,000	2	2,000	1,000	2	2,000	0	0	0	
MEDIA CENTER		1	3.758		1	0		1	4.405		1	4.405			0	
Media Center / Reading Room		1	3 758			- 0	2 965	1	2 965	2 965	1	2 965	-1 440	0	-1 440	
Maker Space			0			0	1,440	1	1,440	1,440	1	1,440	1,440	1	1,440	
			0.774						40.550			40.550			4 000	
DINING & FOOD SERVICE			9,754		1	0	5.050		10,558	5.050		10,558	Â		1,000	
Cafeteria / Dining		1	5,955			0	5,250	1	5,250	5,250	1	5,250	0	0	0	
Chair / Table / Equipment Storage		1	159			0	433	1	433	433	1	433	0	0	0	
Kitchen		1	2,415			0	3,000	1	3,000	3,000	1	3,000	1,000	0	1,000	
Staff Lunch Room		1	519			0	275	1	275	275	1	275	0	0	0	
MEDICAL		1	677		1	0			610		1	610			0	
Medical Suite Toilet		1	69			0	60	1	60	60	1	60	0	0	0	
Nurses' Office / Waiting Room		1	273			0	250	1	250	250	1	250	0	0	0	
Examination Room / Resting		1	335			0	100	3	300	100	3	300	0	0	0	
ADMINISTRATION & GUIDANCE		I	4,096		1	0		1	3,500		1	3,500			0	
General Office / Waiting Room with Toilet		1	464			0	575	1	575	575	1	575	125	0	125	
Teachers' Mail and Time Room		1	205			0	100	1	100	100	1	100	0	0	0	
Copy Room			0			0	200	1	200	200	1	200	0	0	0	
Records Room Principal's Office with Conference Area		1	179			0	300	1	300	200	1	200	-75	0	-75	
Principal's Secretary / Waiting [Included in General Office]		-	0			0	0	0	0	0	0	0	-125	-1	-125	
Assistant Principal's Office - AP1		1	152			0	150	1	150	150	1	150	0	0	0	
Assistant Principal's Office - AP2		1	296			0	150	1	150	150	1	150	0	0	0	
Supervisory / Spare Office		1	76			0	150	1	150	150	1	150	0	0	0	
Conference Room		3	1,172			0	350	<u>1</u> 4	350	350	1	350	0	0	0	
Guidance Waiting Room		1	311			0	100	1	100	100	1	100	0	0	0	
Guidance Storeroom			0			0	50	1	50	50	1	50	0	0	0	
Teachers' Work Room [Teacher Planning]		1	829			0	450	1	450	450	1	450	-50	0	-50	
Outside Provider Office			0			0	125	1	125	125	1	125	125	1	125	
		1	3,155			U	150	4	2,1/5	150		2,1/5		0	0	
Custoaian's Office		1	80	L		0	150	1	150	150	1	150	0	0	0	

Date: [Enter Date] [Enter Submittal]

	MSBA GUIDELINES (DO NOT MODIFY) (Refer to Educational Facility Planning for additional information)											
ROOM NFA ¹	# OF ROOMS	AREA TOTALS	COMMENTS									
150	2	300										
1,500	1	1,500	Assumed schedule: 50% total enrollment; 2 times per week									
200	2	400										
		4 320	STE Guidelines Bolicy									
		4,320	Assumed schedule: FOV tetal enrollment: E times per week: SEO									
1,440	3	4,320	Assumed schedule: 50% total enrollment; 5 times per week; 550 NSF (minimum size) - 2,000 NSF (maximum size); Refer to the <u>STE</u> <u>Guidelines</u> for additional information.									
C 005	-	8,400	Excess Physical Education Spaces Policy									
6,000 150	1	6,000										
250	1	250										
1,000	2	2,000										
		4,405										
4,405	1	4,405										
		9 558										
5 250	1	5 250	Based on 2 lunch seatings - 15 NSE per seat									
1,600	1	1,600										
433	1	433										
2,000	1	2,000	1,600 NSF for first 300 students + 1 NSF per additional student									
275	1	275	20 NSF per student									
	I	610										
60	1	60										
250	1	250										
100	3	300										
		2 500										
450	1	3,500										
100	1	100										
200	1	200										
200	1	200										
375	1	375										
125	1	125										
150	1	150										
150	1	150										
350	1	350										
150	4	600 100										
50	1	50										
500	1	500										
		2,175										
150	1	150										

					PROPOSED PROGRAM								Date: [Enter Date] [Enter Submittal]						
[ENTER DISTRICT NAME] [ENTER SCHOOL NAME]	EXI	ISTING CONDITIO	DNS	EXISTING	G TO REMAIN / F	RENOVATED	NE		TION		TOTAL		VARIATI	ON TO MSBA G	GUIDELINES		(Refe	MSBA r to Educationa	GUIDELINES (DO NOT MODIFY) I Facility Planning for additional information)
ROOM TYPE	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	ROOM NFA ¹	# OF ROOMS	AREA TOTALS	COMMENTS
Custodian's Workshop		1	830			0	250	1	250	250	1	250	0	0	0	250	1	250	
Custodian's Storage		1	715			0	375	1	375	375	1	375	0	0	0	375	1	375	
Recycling Room / Trash			0			0	400	1	400	400	1	400	0	0	0	400	1	400	
Receiving and General Supply		1	468			0	333	1	333	333	1	333	0	0	0	333	1	333	
Storeroom		1	741			0	467	1	467	467	1	467	0	0	0	467	1	467	
Network / Telecom Room		1	321			0	200	1	200	200	1	200	0	0	0	200	1	200	
<u>OTHER</u>			1,582			0			900			900			900			0	
(List rooms separately below)																			
Greenhouse		1	623			0			0	0	0	0	0	0	0				
Food Pantry		1	104																
Classroom Health/Wellness		1	855			0	900	1	900	900	1	900	900	1	900				
															0.000				
Total Building Net Floor Area (NFA)			85,349			0			90,368			90,368			8,680		-	81,688	Total Building Net Floor Area (NFA)
																# of Grades	5		
Drenegad Student Constitu / Envellment																Grade 4	1	700	Tatal Fundiment (Futur Davies Fundiment)
Proposed Student Capacity / Enrollment																Grade 5	1	/00	Lower Middle School Enrollment (Grades 4.6)
																Grade 7	1	420	Lower Middle School Enrollment (Grades 4-0)
																Grade 8	1	200	opper winder school Enrollment (Grades 7 6)
																Grude b	-		
NON-PROGRAMMED SPACES		<u> </u>			% of GFA	0		% of GFA	-90,368		% of GFA	45,632		1	45,632			1	Complete this category with Schematic Design Submittal
Other Occupied Rooms (List rooms separately below)																			
Med Storage [Meducal]			0			0	50	1	50	50	1	50	50	1	50				
Unoccupied MEP / FP Spaces				-	#DIV/0!		-	#DIV/0!	2,160	-	1.6%	2,160							
Unoccupied Closets, Supply Rooms, and Storage Rooms				-	#DIV/0!		-	#DIV/0!	1,013	-	0.7%	1,013							
Toilet Rooms				-	#DIV/0!		-	#DIV/0!	3,646	-	2.7%	3,646							
Circulation (corridors, stairs, ramps and elevators)				-	#DIV/0!		-	#DIV/0!	29,867	-	22.0%	29,867							
Remaining ³				-	#DIV/0!	0	-	#DIV/0!	-127,104	-	6.5%	8,896							
Total Building Gross Floor Area (GFA) ²			130.000			0			0			136.000			21.000			115.000	Total Building Gross Floor Area (GFA) ²
	1																	-,	
Grossing Factor (GFA / NFA)	1		1.52			#DIV/0!			0.00			1.50			0.10			1.41	Grossing Factor (GFA / NFA)
	1																		
																- <u></u>			

¹ Individual Room Net Floor Area (NFA)

Includes the net square footage measured from the inside face of the perimeter walls and includes all specific spaces assigned to a particular program area including such spaces as non-communal toilets and storage rooms.

² Total Building Gross Floor Area (GFA)

Includes exterior walls, interior partitions, chases, and other areas not listed above. Do not calculate this area, it is assumed to equal the difference between the Total Building Gross Floor Area and area not accounted for above.

Architect Certification

³ Remaining

I hereby certify that all of the information provided in this "Proposed Space Summary" is true, complete and accurate and, except as agreed to in writing by the Massachusetts School Building Authority, in accordance with the guidelines, rules, regulations and policies of the Massachusetts School Building Authority to the best of my knowledge and belief. A true statement, made under the penalties of perjury.

Name of Architecture Firm: Lamoureux Pagano Associates | Architects

Nr.O

Name of Principal Architect: Eric D. Moore

Signature of Principal Architect:

Includes the entire building gross square footage measured from the outside face of exterior walls.

Date: 2/23/2024

Date: [Enter Date]	[Enter Submittal]
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4.1.2 SCHEMATIC DESIGN BINDERB. Final Design Program3. Changes to Space Summary Narrative

SPACE SUMMARY

Two signed copies of the educational space summary, reflecting the current design, are included in this section. Changes to the space summary template since the Preferred Schematic Report are highlighted in red font. The summary of changes between the current space summary and the previously submitted PSR space summary are as follows:

GENERAL

The proposed Total Building Gross Floor Area has remained the same at 136,000 GSF.

The Town approved to go with a hybrid heating system consisting of Air source heat pump and geothermal heating. This will require reconfiguration and expansion of the main mechanical room which will be achieved by reconfiguring adjacent circulation space to now be part of the mechanical room.

As the requirements for each space were more fully defined through LPA's Schematic Design programming efforts, subsequent adjustments to the plan have slightly altered the NSF of many spaces. Changes in area since the PSR submission are summarized by category in the charts below, and significant program and area changes are outlined in the narrative following each chart.

ACADEMIC	PSR	ТО	SD	DELTA
TOTAL CATEGORY AREA	36,120 NSF	→	35,220 NSF	-900 NSF

• MSBA requested that the "Classroom Health/Wellness" be moved into the "Other" category.

• The reimbursable square footage increased due to the transitions to the new space summary template.





Schematic Design

B. Final Design Program

3. Changes to Space Summary Narrative

SPECIAL EDUCATION	PSR	то	SD	DELTA
TOTAL CATEGORY AREA	14,200 NSF	→	14,200 NSF	0 NSF

• No changes to the NSF for this category

ART & MUSIC	PSR	то	SD	DELTA
TOTAL CATEGORY AREA	5,100 NSF	→	5,100 NSF	0 NSF

- No changes to the NSF for this category
- This results in an MSBA Space Summary Template Variation of +500 NSF. This space is required to support the district's robust band/choral program.

VOCATIONS &				
TECHNOLOGY	PSR	то	SD	DELTA
TOTAL CATEGORY AREA	4,320 NSF	→	4,320 NSF	0 NSF

No changes to the NSF for this category





Schematic Design

B. Final Design Program

3. Changes to Space Summary Narrative

HEALTH & PHYSICAL				
EDUCATION	PSR	ТО	SD	DELTA
TOTAL CATEGORY AREA	9,400 NSF	→	9,400 NSF	0 NSF

- No changes to the NSF for this category
- This results in an MSBA Space Summary Template Variation of +1,00 NSF. This space is required to support a full-size competition court and bleacher's for school wide assemblies

MEDIA CENTER	PSR	ТО	SD	DELTA
TOTAL CATEGORY AREA	4,405 NSF	→	4,405 NSF	0 NSF

- No changes to the overall NSF for this category
- The "Maker Space" was increased to 1,440 NSF based on comments received by MSBA.
- The design team has reviewed the floor plan and has several options for owner consideration to ensure the "Maker Space" meets MSBA's space requirement of 1,440 NSF

DINING & FOOD				
SERVICE	PSR	то	SD	DELTA
TOTAL CATEGORY AREA	10,558 NSF	→	10,558 NSF	-266 NSF

- No changes to the NSF for this category
- This results in an MSBA Space Summary Template Variation of +1,00 NSF. This space is required to support the storage, prep, and cooking apparatuses required for the District's food offerings.





Schematic Design

B. Final Design Program

3. Changes to Space Summary Narrative

MEDICAL	PSR	то	SD	DELTA
TOTAL CATEGORY AREA	660 NSF	^	610 NSF	0 NSF

• The "Med Storage" was moved to the "Other" category at the recommendation of MSBA.

• This results in an MSBA Space Summary Template Variation of 0 NSF.

ADMINISTRATION &				
GUIDANCE	PSR	то	SD	DELTA
TOTAL CATEGORY AREA	3,500 NSF	→	3,500 NSF	+391 NSF

• No changes to the NSF for this category.

CUSTODIAL &				
MAINTENANCE	PSR	то	SD	DELTA
TOTAL CATEGORY AREA	2,175 NSF	→	2,175 NSF	+143 NSF

• No changes to the NSF for this category.

OTHER	PSR	TO	SD	DELTA
TOTAL CATEGORY AREA	0 NSF	^	900 NSF	900 NSF

- The "Classroom Health/Wellness" was moved to the "Other" category at the recommendation of MSBA.
- This results in an MSBA Space Summary Template Variation of 900 NSF





Schematic Design

4.1.2 SCHEMATIC DESIGN BINDERB. Final Design Program3. Changes to Space Summary Narrative

GROSSING FACTOR

The grossing factor remains at 1.50, which is unchanged from the PSR submission.

DESIGNER CERTIFICATION

This is an acknowledgement and certification that the sum of all programmed floor areas plus all other floor areas equal the gross floor area of the Final Design Program.

Eric D. Moore, AIA, Principal-in-Charge

Lamoureux Pagano Associates Architects

In O. More





4.1.2 SCHEMATIC DESIGN BINDERB. Final Design Program4. Educational Program Narrative

The following narrative includes the Designer responses to each category of the Final Educational Program, extracted from the Compiled Educational Program included in Section 3.3.4, A of the PSR, edited where necessary to align with the Schematic Design Submission.

To support the Clinton Middle School mission of a community school in support of the Town's commitment to providing a well-rounded education, the academic wings have been developed as neighborhoods to support the focused teacher/student approach to promote each student's success with Collaborative areas for flexible use and collaborative teacher planning rooms.

Additionally, core facilities are designed to facilitate significant after hours use including: a Cafetorium, Media Center, Gymnasium facilities, Art rooms, and a non-designated emergency shelter.

Clinton Public Schools Mission Statement

The mission of Clinton Public Schools is to provide students with rigorous, engaging, and academically challenging educational opportunities in a safe and secure environment. These opportunities aim to develop academic and social skills while recognizing individual differences and promoting the discovery and development of individual strengths, talents, and interests. Through partnerships with the community, Clinton Public Schools aims to teach students how to learn and adapt to be competitive and successful in a global society.

Vision Statement

Clinton Public Schools' vision is to be a high performing school system where students develop as lifelong learners who are healthy, able to work collaboratively, think critically to solve complex problems, overcome adversity, and effectively utilize technology. Our students will be prepared to connect with our local community as well as be responsible, knowledgeable, and productive members of our global society.

Core Values

<u>ACADEMIC ACHIEVEMENT</u>: Clinton Public Schools strives for all students to achieve at their highest level of academic performance while stimulating intellectual curiosity and developing the skills necessary to adapt and change to ensure college and career readiness.





4.1.2 SCHEMATIC DESIGN BINDER B. Final Design Program

4. Educational Program Narrative

<u>SAFETY & WELLNESS</u>: Clinton Public Schools aims to provide a safe and supportive learning environment which promotes social-emotional and physical wellness for all.

<u>GLOBAL COMMUNITY</u>: Clinton Public Schools embraces diversity and aspires for all of our staff and



students to be productive, active, and caring members of not only the local community, but the global society as well.

GRADE AND SCHOOL CONFIGURATION

The following educational program narrative has been developed by Clinton Public Schools (CPS) in collaboration with their designer Lamoureux Pagano & Associates Architects (LPA|A) and their OPM, Dore + Whittier (D+W). It communicates the District's existing and future educational program offerings, defines expected educational activities, and provides an in-depth description of the District's position on key curriculum goals, objectives, and policies. The building is designed to support 700 students, 4th through 8th grade.





4.1.2 SCHEMATIC DESIGN BINDERB. Final Design Program4. Educational Program Narrative

The building is organized so that the "Middle School" (7–8) and "Upper Elementary" (4–6) have clear separation from one another. The "Middle School" is housed in the two-story academic wing on the southeast side of the building while the "Upper Elementary" is housed in the two-story academic wing on the north side of the building. This prevents students from either the "Middle School" or "Upper Elementary" from ever having to circulate through each other's neighborhoods to get to the shared core spaces. This will reduce disruptions to the classrooms and reinforce the strong sense of identity and belonging for each grade level neighborhood. The number of teaching stations indicated in the space summary aligns with the number of spaces needed within the projected schedule to support 700 students. The building is configured in a way to reduce between class travel time.

The building is designed to support the grades 4–8 enrollment of 700 students. The building form and location allow the opportunity for future expansion via extension of the existing academic wings or through the connection of those wings creating a courtyard.

CLASS SIZE POLICIES

Classrooms are sized at 900 NSF to accommodate an average of 24–25 students per class, flexibility for a variety of teaching methods, and space for inclusion services. This is in alignment with Clinton Public School policies and procedures. Communicating doors between classrooms and Collaborative areas are designed to support team teaching, project based learning, and special education inclusion programs.

SCHOOL SCHEDULING METHOD

The number of teaching stations indicated in the space summary aligns with the number of spaces needed within the projected schedule to support 700 students. Most frequently accessed academic spaces are grouped together to reduce between class travel time. The preferred solution floor plans include flexible classroom wings that can be grouped and scheduled in a variety of ways in response to changes in enrollment. The design team will continue to review opportunities to build in flexibility within the space summary guidelines.

Additionally, the core facilities including administrative and guidance offices are centrally located for efficient staff and student flow from the academic wings throughout the day.

TEACHING METHODOLOGY AND STRUCTURE





4.1.2 SCHEMATIC DESIGN BINDER

B. Final Design Program

4. Educational Program Narrative

All grade level teams will be housed in their own distinct neighborhood allowing for ease of travel between classrooms. Communicating doors between classrooms (All Grades) and Common Rooms (Grades 4–6) are designed to support team teaching, project based learning, and special education inclusion programs.

As shown in the diagram to the right, all "Upper Elementary" neighborhoods are designed and organized in a way to ensure each classroom has a communicating door to at least one if not two classrooms to reinforce team teaching and collaboration in the collaborative work area.





As shown in the diagram to the left, Grades 7 and 8 will be organized with more of a departmental focus. One neighborhood would have a STEM focus, and would include Math classrooms, Science labs and related Special Education and EL support spaces. The other neighborhood would have a Humanities focus, and would include English Language Arts and Social Studies classrooms, and related Special Education and EL support spaces.

A main driver for the shift from traditional teams to a

departmental focus is to create a more equitable learning environment by allowing students to interact more freely rather than be confined to the team that may have the appropriate support available for that student.





The "Middle School" is organized in a two-story academic wing with the STEM (Math/Science) neighborhood on the first floor and the Humanities Neighborhood (ELA/Social Studies) on the second floor. This will reinforce collaboration amongst the subject matters that have the greatest tendency for collaboration as mentioned above while also preparing students for their transition to High School.

Additionally, All Academic Support Spaces are located to ensure inclusion and ease of access. This is achieved through strategic placement in the neighborhoods themselves and distribution throughout the building.

STUDENT GUIDANCE AND SUPPORT SERVICES

All Student Guidance and Support Spaces are located to ensure inclusion and ease of access. This is achieved through strategic placement of a centralized guidance office, and integration of the TLC and ABA programs within the academic neighborhoods.

TEACHER PLANNING AND ROOM ASSIGNMENT POLICIES

The two teacher planning spaces are centrally located to ensure ease of access and use for staff. These locations also allow staff to keep an eye out on students as they come and go from the shared core spaces. The number of teaching stations indicated in the space summary aligns with the number of spaces needed within the projected schedule to support 700 students.

LUNCH PROGRAMS

The Cafeteria is centrally located off the main lobby for ease of access for students and after school programs and events. The proposed kitchen, servery, cafeteria and grab–and–go station are sized and located to support the District's goal to efficiently provide nutritious food to 700 students.

TECHNOLOGY INSTRUCTION POLICIES AND PROGRAM REQUIREMENTS

The appropriate spaces and infrastructure will be distributed throughout the building as required to support the school's technology program, including 1:1 device capabilities.

MEDIA CENTER





4.1.2 SCHEMATIC DESIGN BINDERB. Final Design Program4. Educational Program Narrative

The Media Center will be centrally located for efficient access from the academic spaces. The space(s) will be equipped with technology and will be outfitted with flexible furniture to accommodate a variety of uses. A maker space will also be part of the media center to allow for cross disciplinary collaboration.

VISUAL ARTS

The Art classrooms are centrally located on the second floor above the Media Center just off the lobby. This offers the opportunity for an open gallery/display to be integrated into the school at a prominent intersection of circulation paths.

MUSIC/PERFORMING ARTS

The Band Room is located on the first-floor level directly adjacent to the cafetorium stage. This allows for the band room to act as a green room for the stage for special events/programs. The stage will be equipped with a high acoustically performing operable partition to separate it from the cafeteria. This will allow for the stage to be used as an additional teaching station for the music program.

PHYSICAL EDUCATION

The Physical Education and health spaces are clustered together on the first-floor level to facilitate exterior access from the gymnasium to the athletic fields. The PE spaces are organized to achieve maximum flexibility and utilization and for that reason additional space was required to be able to offer a full-size competition court and associated bleachers. The location off the main lobby allows for secure after-hours use for programs and events.

SPECIAL EDUCATION

The Special Education spaces required to fulfill the education program are distributed throughout the school to provide equal access and eliminate stigma. The Life Skills and ADL programs are located adjacent to each other, and the Adaptive PE/OT/PT room is centrally located adjacent to the PE & Health Spaces.

ENGLISH LEARNERS





4.1.2 SCHEMATIC DESIGN BINDERB. Final Design Program4. Educational Program Narrative

The English Learner spaces required to fulfill the education program are distributed throughout the school to provide equal access and eliminate stigma.

VOCATIONAL EDUCATION PROGRAMS

The Vocational Education spaces are located at the end of the STEM Neighborhood closest to the Main Lobby. This location helps facilitate cross discipline collaboration with Math and Science. There spaces will be double height spaces to support current and future vocational programs. These spaces will have direct access to the exterior and are located adjacent to the main loading dock.

SOCIAL EMOTIONAL LEARNING / GUIDANCE

The Guidance Suite is located adjacent to both the Admin. and Nursing Suites, and includes a waiting area, private counselor offices, a dedicated conference room, and storage.

NURSING

The Nursing Suite is located adjacent to the Admin. & Guidance Suites, and gymnasium. The suite includes a waiting area, private exam room, unisex toilet, and storage. The Medical Suite will have exterior access to help facilitate medical transportation should an emergency arise.

TRANSPORTATION POLICIES

The site is developed in a way to ensure that bus traffic is not impeded by parent pick-up and drop-off. The siting of the new building also creates more than enough on-site queuing than is needed and will ensure traffic does not back up on to Route 110.

FUNCTIONAL AND SPATIAL RELATIONSHIPS AND ADJACENCIES

Each of the required adjacencies indicated in the PSR Educational Program is addressed within the building floor plans and will be developed further in Design Development. Refer to the updated Adjacency Diagrams in section 4.1.2, B, 6.

SECURITY AND VISUAL ACCESS REQUIREMENTS





4.1.2 SCHEMATIC DESIGN BINDERB. Final Design Program4. Educational Program Narrative

All the Town's security and visual access requirements are achievable in the design and layout of the preferred solution. The design team will continue to discuss security protocols in greater detail with local and district authorities as the design progresses. An office for the Security Resource Officer (SRO) is located within the Main Administration office.





4.1.2 SCHEMATIC DESIGN BINDERB. Final Design Program5. Instructional Technology Narrative

The Design team met with the District and School's Technology Directors and administration on October 4, 2023 and then on December 5,2023 to discuss the Instructional Technology requirements for the Clinton Middle School. Refer to the Technology Basis of Design narrative by Edvance Technology Design, Inc., included in Section 4.1.2, I Narrative Building Systems.

Additional specialized technology and equipment may be required for the Vocations & Technology Spaces. Refer to the Room Data sheets for preliminary equipment lists, to be developed further in Design Development.

The following items will be procured as proprietary items in compliance with Massachusetts General Laws:

- Network Switches Extreme Networks
- Wireless Access Devices Cisco Meraki
- Telephone System- Mitel
- Integrated Security System Verkada

These were viewed and approved by vote of the School Building Committee on February 6, 2024.







4.1.2 SCHEMATIC DESIGN BINDER


MSBA Module 4 Schematic Design





4.1.2 SCHEMATIC DESIGN BINDER B. Final Design Program 6. Functional Relationships and Adjacenies



MSBA Module 3 Feasibility Study PSR

4.1.2 SCHEMATIC DESIGN BINDERB. Final Design Program7a. Security and Visual Access

On Friday, December 8th, 2023, LPA|A met with the local authorities having jurisdiction (AHJ) for the Town of Clinton. The authorities included the following:

- Brian Coyne- Chief of Police
- Michael Lutes Fire Chief
- Michael Ward– Town Administrator
- Steven Meyer– Superintendent of Schools

The purpose of the meeting was to review the preferred solution as part of the Schematic Design submission and give the AHJ's an opportunity to provide input on the design and ensure that scope is captured in the cost estimate for accuracy.

During the meeting, LPA|A reviewed the current site plan and proposed floor plans of the new middle school building. Some of the comments received by the AHJ's include the following:

- Chief Coyne asked about how the building will be locked off after hours and still allow the building to be used by the community. LPA|A responded that the public will have access to the Gymnasium, Cafeteria, and Media Center after hours. The rest of the building, mostly academic classrooms, will be locked off by doors within the associated corridors. The second floor will only allow access to within the main lobby area mezzanine and to 2 enclosed stairways for emergency egress.
- LPA A advised that a BDA system will be included in the project as part of the base scope of work.
- No exterior lighting will be provided at the new athletic field nor at the basketball courts to the east of the new school. Minimal light will be provided at these areas by typical access road lighting. The basketball courts will have video surveillance.
- The proposed school will not be a designated emergency shelter. However, it will have some capacity to warm and cool occupants; limited by how big the Owner wants the generator to be designed for.
- There will be standby power for the HVAC system to prevent freezing within the building.





MSBA Module 3 Feasibility Study PSR

4.1.2 SCHEMATIC DESIGN BINDERB. Final Design Program7a. Security and Visual Access

- The Owner requested that there be "safety stations" within the school. These stations will include not only an AED but also CPR mask, turnikit, and fire blanket. At least one on each floor to be centrally located.
- The discussion continued from the previous meeting held in May 2023 regarding where the Owner would like to implement other security features within the project such as bullet-resistant glass. At the Owner's recommendation, a working group, made up of members from the OPM, Construction Manager, Town, and LPA|A, will be formed in the next phase of the project. This working group will collaborate to determine what additional security features will be incorporated into the new building beyond the video surveillance, intrusion detection, and access control.
- The current design requires a visitor to be buzzed into the first pair of main entry vestibule doors. The second pair of vestibule doors (into Lobby) will be locked. Once inside the vestibule, the visitor will then need to be buzzed into the main office where they will be able to conduct their business and allowed to bypass the second pair of locked vestibule doors. Being the case, the Owner advised that they want to use bullet-resistant material at all doors of the vestibule. The Owner requested that LPA|A provide a budget number for this as well as for a typical exterior door around the perimeter of the rest of the building. A further discussion will be had at the next School Building Committee meeting.





On Monday, December 18th, 2023, LPA|A met with the local authorities having jurisdiction (AHJ) for the Town of Clinton. The authorities included the following:

- James Salmon Town Buliding Inspector
- Paul Silvester SRO
- Michael Lutes Fire Chief
- Michael Ward- Town Administrator
- Steven Meyer– Superintendent of Schools

The purpose of the meeting was to review the preferred solution with the building inspector as well as discussing further security and visual access requirements with the Police and Fire Departments.

During the meeting, LPA|A reviewed the current site plan and proposed floor plans of the new middle school building. The main entrance design and entry sequence as follows:

- The secure main entrance vestibule is adjacent to, and has direct line of sight to, the main office.
- The school bus drop-off and main parking area is viewable from the main office.
- Entry is allowed through exterior/interior vestibule doors, utilizing timer-controlled electronic access control door hardware, at the beginning of each school day during the student arrival period as designated by the Owner. Once school starts in the morning, exterior/interior vestibule doors will be automatically locked for the remainder of the day.
- During the school day when exterior/interior vestibule doors are typically locked, access from the
 exterior to the main entry vestibule will be via a video entry station with intercom and remote
 access control hardware (monitored by main office administrative staff). Once allowed access
 into the secure main entry vestibule, visitors must use a secondary video entry station to be
 allowed access into the main office for sign-in and identity confirmation. A video entry station
 shall be provided at the outside door for non-school hours access.

The interior door sequencing and lockdown was also reviewed and was determined as follows:





- Corridor-to-Classroom doors are proposed to have keyed classroom-function locksets, similar to Corbin Ruswin "Classroom Intruder" with the following operation:
 - Latchbolt by grip either side, unless outside grip is locked by key either side.
 - Outside grip locked or unlocked by cylinder either side.
 - Auxilary latch deadlocks latchbolt.
 - Inside grip always free.
- Classroom-to-Classroom communicating doors are proposed to have a passage hardware set, to allow free passage of students through the classroom areas.
- Classroom sidelites are proposed on the strike side of doors. Sidelite glazing will be laminated safety glazing and provided with a manually-operated privacy blind.
- The main lobby area is scheduled to be separated from the academic areas with doors at the corridors leading to those academic areas. While further security protocols will be discussed with the District in the next phase of the project, the current assumption for cost estimating purposes is that these corridor doors are designed to egress into the lobby, and the lobby side of these doors are capable of being locked at the lobby side. These doors are typically held open on magnetic release hold open devices that will close the doors during a fire alarm. This lobby door hold-open system will also be controlled by a relay, and can be released to close upon actuation of a panic switch, which will be located at the main office reception desk (multiple locations), at the Principal's office, and School Resource Officer's office.

Other exterior door operations were discussed as follows:

A video entry station shall be provided at the Loading Dock/Receiving area. This people-door will
also be provided with an electronic card reader system and security camera monitoring in
addition to a photo for direct communication to the main office and/or kitchen office. Any
additional exterior doors with these features will be reviewed with the Owner in the next phase
as part of the District's lockdown and security protocols.





MSBA Module 3 Feasibility Study PSR

4.1.2 SCHEMATIC DESIGN BINDER B. Final Design Program 7b. Security and Visual

Video surveillance will be provided throughout the interior/exterior of the school. The District utilizes a proprietary unified security system (Verkada).

In addition to interior building signage, the District requested that all exterior doors be labeled (X1 for example) for easy identification in an emergency. Additionally, every space with a window will have the room number mounted on the glass of 1 window for easy identification in an emergency. Larger spaces with an exterior walls (Media Center and Cafeteria) will have the room name in lieu of room number indicated on at least 2 windows.

There will be 3 locations for knox boxes around the perimeter of the building. There will be one at the main entrance, one at the exterior door at the end of the 7 & 8 grade classroom wing, and one at the stair on the north side of the building. The District currently uses EAS as the manufacturer and will be included in the specifications for this project.





4.1.2 SCHEMATIC DESIGN BINDERB. Final Design Program8. Site Development Requirements

The site currently includes a total of 124 parking spaces, broken down as follows:

- 6 dedicated accessible handicap parking spaces
- 7 dedicated electric vehicle parking spaces with associated charging stations.
- 111 regular parking spaces

All the parking spaces noted above are located to the west of the new school building, facing the main entrance with all the handicap, and dedicated electric vehicle spaces closest to the building.

Regarding how the parking space quantities were derived, the exiting school, with a 572–student enrolment, currently utilizes 91 parking spaces including 85 staff and 6 visitor spaces. Per the proposed 700 student enrollment, the total number of parking spaces increases to 111. As a rule of thumb, "parking lots are typically designed with 5 to 10 percent reserve capacity to minimize travel time and distance when searching for an empty space and to ensure adequate capacity to accommodate daily variations in peak demand." Thus, adding 10% to the 111 proposed parking spaces increases to 123 which is just under the number of spaces proposed. It should be noted that, given the new building is a middle school, there are no students who attend the school that can drive a vehicle. Thus, no dedicated student parking is required.

Additionally, during events where the parking lot may reach full capacity, there are several "overflow" options available that the new Middle School may utilize including at the adjacent High School and across the street (route 110) at the Town's athletic fields.

Bus and parent drop-off/pick-up traffic will utilize separate traffic loops. The buses will have a dedicated drop-off/pick-up location at the west (main entrance) side of the building. The bus lane provides enough length to accommodate up to 5 of the estimated 9 buses at a time. The parent drop-off/pick-up traffic will wrap around the building, starting at the location where the bus drop-off/pick-up begins and will wrap around the building with a one-way access road in the counterclockwise direction. The parent drop-





MSBA Module 4 Schematic Design

4.1.2 SCHEMATIC DESIGN BINDERB. Final Design Program8. Site Development Requirements

off/pick-up location is on the north side of the building at either the stair entrance or the entrance adjacent to the medical suite. However, the stair entrance is the preferred location due to its closer proximity to the academic wings. According to the traffic analysis, based on the 700-student enrollment, a queuing length to support and estimated 49 vehicles is required. Based on the proposed length, the access road has a capacity to support up to 58 vehicles and will meet the estimated needs. Graphics that indicate the traffic loops were provided in the PSR Supplement package submitted to MSBA in response to the MSBA cursory review.

Refer to the traffic analysis found in this section, conducted by Stantec Consulting Services Inc., for further information.





MSBA Module 4

Schematic Design

4.1.2 SCHEMATIC DESIGN BINDERB. Final Design Program9. Visual or Aesthetic Focal Points

DESIRED VISUAL OR AESTHETIC FOCAL POINTS

The intended primary visual focal point of the proposed building is the main entrance Lobby signified by the sloped skylight that extends from the main entrance on the west side of the building to the media center at the courtyard between academic wings on the east side of the building and the mezzanine level open corridor at the second floor. The longitudinal shape and 2–story configuration allow the Lobby to serve as the backbone for circulation and direction to the various parts of the building. The Gymnasium, Cafeteria and Platform, and Media Center all have direct adjacency and access to the main lobby which can better support after hour programs as well as large functions. Both academic wings have direct access to the main lobby on the east side. In essence, the main lobby provides the opportunity to close off the academic spaces from the rest of the building.

Generally centered at each grade 4 – 6 academic wing is a collaborative space that provides visual connections to all classrooms in the cluster as well as the exterior. Since each collaborative space does not have an exterior wall to allow for natural daylight, each will include a dedicated skylight that will allow for natural daylighting.

The building is designed for users to easily identify the major program components, provide intuitive circulation paths, and strong interior and exterior connections throughout by means of stairs and/or glass at ends of corridors for exterior views/reference, and skylights at interior collaborative spaces as mentioned above. The scale is intentionally reduced to provide a welcoming, inviting environment for young students. This is achieved using compact academic wings/clusters and maximum two-story height with several single-story spaces (band and science labs).

The exterior use of brick masonry and glass fiber reinforced concrete (GFRC) panels is meant to reference the town of Clinton's historic past as being a mill town as well as its other existing schools; the elementary and high schools most notably. These core materials allow for referencing historical materials but with a modern aesthetic appearance. Additionally, these materials are durable and well suited for its exterior applications for a 50+ year school.

From a site perspective, the school is positioned on the property to allow the existing school to remain open during construction. This was accomplished by locating the building at the southeast corner of the school property. By doing so, the new school would not have as prominent of a presence along West Boylston Street (route 110) as the exiting school does. However, the new school will be moved forward (west) enough to allow the west side of the school, which is the main entry side, to have a more visible appearance from West Boylston Street so that visitors will have a clear approach to the school.





4.1.2 SCHEMATIC DESIGN BINDER

- C. Traffic Analysis
 - 1. Traffic Analysis Narrative
 - 2. Transportation Feasibility Assessment

Stantec Consulting Services' Transportation Design Parameters report dated November 28, 2023, and included with this Schematic Design submission, describes the existing traffic patterns and conditions. This document reviewed how the existing middle school impacts traffic along route 110 (W. Boylston Street) and analyzes any potential increase in traffic patterns anticipated from the increased enrollment. Additionally, the report makes recommendations on the following:

- Parking capacity
- Pedestrian safety relative to sidewalk access
- Bus drop-off/pick-up capacity

Of the three recommendations made in the traffic report, the parking capacity was increased to 124 spaces, which exceeds the recommendation by 1 parking space. Additionally, a sidewalk was added along the east side of the East Driveway that will allow pedestrians to safely walk from the school north to rte. 110. Lastly, there is an opportunity for the remaining buses that can't queue up in front of the new school to be able to queue up along the south access road and wait their turn for drop-off/pickup.

The temporary Construction impacts will include adding a separate entrance at the East Driveway for construction vehicles to enter the site to maintain separation and enhance safety, adding a temporary entrance at the east side of the site at South Main Street for construction workers, and an orchestrated change in where school staff will park their vehicles as construction progresses. Phasing plans, provided by the Construction Manager, are included in section 4.1.2, M, 3 of the Schematic Design submission.

At this time, there is no off-site work anticipated as part of this project.

Total Project Budget includes the phasing work. The Construction Manager/Contractor, will refine the project phasing as the project develops into Design Development and ultimately Construction Documents.







November 28, 2023 File: 179450769

Attention: Mr. Eric Moore Lamoureux Pagano Associates | Architects 108 Grove Street, Suite 300 Worcester, MA 01605

Dear Eric,

Reference: Transportation Design Parameters, Clinton Middle School, Clinton, MA

Per your request, we completed traffic investigations for the Clinton Middle School feasibility study. The collected data presented below was used to define existing conditions at the school, recommend design parameters, and evaluate the current plan. Based on our evaluation, we recommend that consideration be given to increasing the on-campus parking and modifying the proposed bus pick-up/drop-off plan. These recommendations and other minor recommendations are discussed further below.

PROJECT DESCRIPTION

The Town of Clinton ("the Owner") is conducting a feasibility study to construct a new middle school at the site of the existing school, 100 West Boylston Street, Clinton, Massachusetts. The school has two driveways on West Boylston Street. The western driveway provides full access and is shared with the adjacent Clinton High School. The eastern driveway functions as an exit only. The middle school currently accommodates grades 5 through 8 with an estimated enrollment of 572 students. The new school would accommodate grades 4 through 8 with an estimated enrollment of 700 students. Under the currently proposed construction plan, the two site driveways would be maintained, and an emergency access driveway would be provided at South Main Street.

EXISTING CONDITIONS

A site visit was conducted to determine existing roadway, traffic, and operating conditions. Specifically, a campus visit was made by Stantec on Thursday, October 12, 2023, to observe traffic operations and parking conditions during student arrivals and dismissal. School staff indicated in advance that the survey day would exhibit typical conditions. Conditions with respect to vehicle queueing change rapidly; as such, the number of vehicles queued to drop off students in the morning, and the number of vehicles queued to pick up students in the afternoon were monitored once per minute. Staff parking conditions change less rapidly and were reported at the beginning and end of the two surveys. Concurrent with the on-site surveys, cameras were recording vehicular and pedestrian traffic volumes at the two campus driveways at West Boylston Street (State Route 110). Figure 1 provides an overview of existing site conditions and is referenced below to describe the observed conditions.

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Reference: Transportation Design Parameters, Clinton Middle School, Clinton, MA



Figure 1 Existing Campus Conditions

Student Arrivals (AM Peak Period)

Student arrivals occurred primarily from 7:30 AM to 8:00 AM when school starts. Stantec observations for this period are noted below.

Student Drop-Offs

Parents enter the western site driveway to drop off students in the morning. Vehicles will queue along the West Driveway, as noted in Figure 1. Students unload from vehicles stopped in the approximately five or six curbside spaces just to the west of the driveway to the West Lot. The queue, viewed from West Boylston Street, is shown in Figure 2. The number of spaces used for drop-offs affects the speed at which the queue proceeds. Additional curb space is provided further west along the entrance driveway but is not typically used. After dropping off students, most vehicles make a U-turn in the visitor parking lot and exit the campus through the West Driveway. For drop-offs occurring early (before school buses arrive), vehicles are more likely to exit by way of the East Driveway.

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Reference: Transportation Design Parameters, Clinton Middle School, Clinton, MA

Figure 2 Morning Drop-Off - Parents



Queueing conditions observed during this period are reported in Figure 3. As shown, the vehicle queue begins to grow significantly at 7:43 AM. It reached a peak of 20 vehicles at 7:54 AM. When the queue along the West Driveway exceeded 15 vehicles, it extended onto Route 110 and blocked through traffic. The data summary sheets (attached) show that the queue spilled back and blocked traffic on Route 110 from 7:47 AM to 7:54 AM, with as many as five vehicles stopped on Route 110. The queue dissipated very quickly and was gone by 7:59 AM.

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Reference: Transportation Design Parameters, Clinton Middle School, Clinton, MA



Figure 3 Arrival Observations

School buses arriving at the main entrance are also reflected in Figure 3. Buses enter the campus from the West Driveway and exit by way of the East Driveway. They park at an angle to the curb near the building entrance, as shown in Figure 4. A driver reported that this is done partly to reinforce the circulation pattern for parents that requires them to exit by way of the West Driveway. As shown in Figure 3, the maximum number of buses stopped unloading passengers was five with the peak at 7:51 AM.

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Reference: Transportation Design Parameters, Clinton Middle School, Clinton, MA

Figure 4 Morning Drop-Off - Buses



Staff Parking

Staff parking occurs in two lots. Staff parking is provided on the east side of the Main Lot in front of the school building and in a smaller lot to the west of the school building. Observations made at the end of the morning survey period (8:22 AM) indicate 72 vehicles in the Main Lot and 13 vehicles in the West Lot (85 total).

Visitor Parking

Visitor parking occurs at the west end of the Main Lot. At the end of the morning survey period (8:22 AM), observations indicate four vehicles were in the visitor lot. Up to five vehicles were observed during the morning drop-off period. Staff reported that high school students often park in the visitor lot. No pedestrian travel between this lot and the adjacent high school was observed.

Pedestrian and Bicycle Access

Sidewalks are present along the south side of Route 110 adjacent to the middle school. The traffic count program indicates fewer than five pedestrians or bicycles entering the campus from the East Driveway. Slightly lower volumes were observed at the West Driveway.

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Student Dismissal (PM Peak Period)

Student dismissal begins at 2:30 p.m. Stantec observations for this period are noted below.

Student Pick-Ups

Parents enter the western site driveway to pick up students in the afternoon. They will then enter a narrow roadway by way of the West Lot that circles the school building. Early arrivals will park along this roadway adjacent to the east side of the building. Students exit the east side of the building in this area and meet up with their parents' vehicles. Vehicles will then proceed to exit the campus by way of the East Driveway. The queue location is indicated in Figure 1. Student loading occurs in the approximately five or six vehicle spaces at the front of the queue. The number of spaces used for loading affects the speed at which the queue proceeds. The front of the pick-up queue on the east side of the building is shown in Figure 5.



Figure 5 Dismissal Pick-Up Queue

Queueing conditions observed during this period are reported in Figure 6. As shown, the vehicle queue around the building grew steadily beginning at 2:09 PM. It reached a peak of 32 vehicles at 2:34 PM. With 32 vehicles, the queue reached, but did not block the West Lot. Following the 2:30 PM dismissal, the queue dissipated very quickly and was gone by 2:40 PM. When a queue was present, one vehicle was parked in the student drop-off area, presumably for a student pick-up. Also, staff reported that some student pick-ups occurred off campus in the state-owned pool parking lot located just east of the campus. The data summaries show as many as seven pick-up related vehicles parked in this lot.

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Reference: Transportation Design Parameters, Clinton Middle School, Clinton, MA



Figure 6 Dismissal Observations

Full-size school buses began arriving at 2:21 PM. A smaller bus arrived much earlier. At peak, 2:31 PM, there were seven buses loading students. The seven buses left the campus by 2:39 PM.

Staff Parking

Observations made at the beginning of the afternoon survey period (2:09 PM) indicate there were 69 vehicles in Main Lot and 12 vehicles in the West Lot (81 total). This is fewer than the number observed at the end of the morning survey.

Visitor Parking

Observations made at the beginning of the afternoon survey period (2:09 PM) indicate six vehicles were in the visitor lot. This is greater than the peak number observed during the morning drop-off period.

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Reference: Transportation Design Parameters, Clinton Middle School, Clinton, MA

Pedestrian and Bicycle Access

The traffic count program indicates up to 12 pedestrians or bicycles exiting the campus from the East Driveway. Many of these pedestrians were observed walking to the pool parking lot where waiting parents picked them up. Pedestrian traffic was nominal at the West Driveway until approximately 3:00 PM. This traffic likely included high school students headed east towards the town center.

Traffic Volumes

During the on-site field observations, video cameras were used to conduct counts of vehicles, pedestrians, and bicycles using the school driveway intersections on West Boylston Street and the on-campus intersection between the West Driveway and the high school driveway. Counts were done from 7 to 9 AM and from 2 to 4 PM in 5-minute increments.

School Traffic

The results of the vehicular counts for traffic entering and exiting the campus are summarized in Table 1. The peak hours are 7:05 to 8:05 AM and 2:00 to 3:00 PM. As shown, 203 vehicles enter the middle school campus during the AM peak hour, and 119 vehicles exit the campus during the PM peak hour. The reported volumes include 12 buses entering during both peak hours.

Table 1 School Driveway Volumes (Vehicles)

	Ca	rs	Bus	es	Total				
Peak Hour	IN	OUT	IN	OUT	IN	OUT			
AM (begins 7:05 AM)	191	115	12	10	203	125			
PM (begins 2:00 PM)	56	106	12	13	68	119			

Note: Counts were conducted on Thursday, October 12, 2023, from 7 to 9 AM and from 2 to 4 PM at the Route 110/East Driveway intersection and at the West.Driveway/High School Driveway intersection.

Intersection Traffic

Vehicle turning movements for the school driveway intersections on West Boylston Street are shown for peak hours in Table 2. As noted, the peak period for school traffic is brief so the volumes recorded in the peak 15 minutes are also shown. The 15-minute volumes were multiplied by four to indicate hourly flow rates during the busiest 15 minutes of traffic activity. Table 2 shows that most of the traffic enters from the east and exits to the east. At the West Driveway during the AM peak hour, 177 vehicles approaching from the east turn left into the campus (WB Left) compared to only 58 vehicles making a right turn. Likewise, 73 vehicles turn right, exiting the campus, and head east during the afternoon peak hour at the East Driveway compared to only 11 vehicles turning left and heading west. Of those 73 vehicles exiting to the east (the NB Right volume in the table), 50 right-turns occur in the peak fifteen minutes, indicating an hourly flow rate during the 15 minutes of 200 vehicles per hour. The turning movement data were used to conduct intersection operations analyses.

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Reference: Transportation Design Parameters, Clinton Middle School, Clinton, MA

			· · · · · · · · · · · · · · · · · · ·						
		PEAK	HOUR	PEAK	RATE	PEA MINI	K 15 JTES		
Location	Movement	AM	PM	AM	PM	AM	PM		
West Driveway/Route 110	NB Left	10	14	20	12	5	3		
	NB Through	0	1	0	0	0	0		
	NB Right	61	24	204	32	51	8		
	SB Left	0	0	0	0	0	0		
	SB Through	0	1	0	4	0	1		
	SB Right	0	4	0	8	0	2		
	EB Left	1	2	4	0	1	0		
	EB Through	266	233	188	272	47	68		
	EB Right	58	11	84	12	21	3		
	WB Left	177	70	300	56	75	14		
	WB Through	236	189	148	224	37	56		
	WB Right	2	5	4	4	1	1		
	Total	811	554	948	620	238	156		
East Driveway/Route 110	NB Left	6	11	16	32	4	8		
	NB Right	48	73	76	200	19	50		
	EB Through	334	258	408	304	102	76		
	WB Through	405	250	424	260	106	65		
	Total	793	592	924	796	231	199		
AM PEAK HOUR BEGINS	7:05								
AM PEAK 15 BEGINS	7:45								
PM PEAK HOUR BEGINS	2:00								

Table 2 Existing Intersection Peak Hour Volumes (vehicles)

Note: Counts conducted on Thursday, October 12, 2023 from 7 to 9 AM and 2 to 4 PM.

2:30

Traffic Operations

PM PEAK 15 BEGINS

Traffic operations analyses were conducted to determine the existing intersection operating level of service at the two campus driveways during student arrivals and dismissal. Typically, operations are evaluated for a peak, one-hour interval. Given the sharp peak in traffic demands during student arrivals and dismissal, analyses were also conducted for the peak 15-minute intervals. Intersection operating level of service is defined below.

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Reference: Transportation Design Parameters, Clinton Middle School, Clinton, MA

Level of Service

Level of service (LOS) is a term used to describe the quality of traffic flow on a roadway facility at a point in time. It is an aggregate measure of travel delay, speed, congestion, driver discomfort, convenience, and safety based on comparing roadway system capacity to roadway system travel demand. Service operating levels are reported on a scale of A to F, with A representing the best-operating conditions with little or no delay to motorists and F representing the worst-operating conditions with long delays and traffic demands sometimes exceeding roadway capacity. Procedures for calculating intersection operating levels of service are defined in the *Highway Capacity Manual*, published by the Transportation Research Board.

The level of service for an intersection or a lane group is based on delay. Delays can be measured in the field or calculated as a function of several factors, including traffic volume, peaking characteristics of the traffic flow, percentage of heavy vehicles in the traffic stream, the number of travel lanes and lane use, intersection approach grades, and pedestrian activity. The calculations also yield volume-to-capacity ratios for lane groups and the intersection overall. A volume-to-capacity ratio of 1.0 indicates that the lane group or the critical movements at the intersection are operating at theoretical capacity. The specific delay criteria applied per the *2010 Highway Capacity Manual* to determine operating levels of service are summarized in Table 3.

Level of Service	Average Delay per Vehicle (Seconds)
A	≤10.0
В	10.1 to 15.0
С	15.1 to 25.0
D	25.1 to 35.0
E	35.1 to 50.0
F ¹	>50.0

Table 3 Unsignalized Intersection Level of Service Criteria

¹Level of Service F is also assigned to individual lane groups if the volume-to-capacity ratio exceeds 1.0.

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Reference: Transportation Design Parameters, Clinton Middle School, Clinton, MA

Intersection Operations

The capacity analysis results for the two campus driveways are presented in Table 4. The reported results apply to traffic waiting to exit the campus at each driveway. As shown, conditions for the peak hour are in the LOS B range for both driveways and both peak periods indicating modest delays. Results for the peak 15 minutes are similar to the peak hour findings. The calculated 95th percentile queue conditions are consistent with field observations, except that the peak 15-minute queue of 1.5 vehicles at the East Driveway is understated. At one point during the field survey (2:35 PM), the vehicle queue on the East Driveway extended approximately 200 feet south of West Boylston Street slowing traffic exiting from the pick-up area for parents. The queue, however, was short-lived, dissipating within approximately three minutes.

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Reference: Transportation Design Parameters, Clinton Middle School, Clinton, MA

Table 4 Existing Driveway Operations

			Peak Hou	r Condition	S	Peak 15-Minute Conditions						
Driveway	Peak Hour	LOS ¹	Delay ²	V/C ³	95th Queue⁴	LOS	Delay	V/C	95th queue			
West	AM (Arrival)	В	12.3	0.13	0.4	В	14.2	0.37	1.7			
Driveway	PM (Dismissal)	В	11.7 0.07		0.2	В	11.6	0.07	0.2			
East	AM (Arrival)	В	11.1	0.08	0.3	В	12.8	0.17	0.6			
Driveway	PM (Dismissal)	В	10.6	0.12	0.4	В	13.0	0.34	1.5			

¹LOS= Level of Service, ²Delay = Average delay expressed in seconds per vehicle, ³V/C = Volume-to-capacity ratio, ⁴95th percentile vehicle queue in vehicles

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Reference: Transportation Design Parameters, Clinton Middle School, Clinton, MA

<u>Safety</u>

Traffic safety was considered by examining crash data for the area roadway system and sight lines at the school driveways.

Vehicular Traffic Safety

The MassDOT crash database was reviewed to identify any crashes occurring in the vicinity of the school driveways during the past three years. MassDOT has records of only one crash occurring in the area. This single-vehicle crash occurred between the two school driveways on West Boylston Street. Minor injuries resulted. The crash occurred between 1 and 2 PM. under dry roadway conditions on Monday, January 30, 2023.

Sight Lines

Sight lines were measured along West Boylston Street at the school driveways. Adequate sight lines should be provided to enable the safe movement of vehicles and pedestrians into and out of the site. The adequacy of the existing sight lines was determined by comparing the available sight lines to the minimum safe sight distances indicated in *"A Policy on the Geometric Design of Highways and Streets,"* published by the American Association of State Highway and Transportation Officials (AASHTO). In accordance with AASHTO standards, sightlines measured along the intersected street from a driveway should exceed the stopping distance for a vehicle traveling along the street at the posted speed limit. There are no posted speed limits on West Boylston Street in the site's immediate vicinity; however, a speed limit of 30 miles per hour (mph) is posted on West Boylston Street west of the site near the Sterling town line. The stopping distance for a vehicle traveling at 30 mph per AASHTO standards is 200 feet. Observed sight lines are listed in Table 5. Figures 7 and 8 illustrate the clear sight lines along the site frontage. As noted, sight lines are in excess of 1000 feet indicating more than adequate sight lines for a speed of 30 mph.

	Sight Dista	ince (feet)
Location	Looking to/from North	Looking to/from South
West Driveway	1000+	1000+
East Driveway	1000+	1000+

Table 5 Observed Sight Lines

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Reference: Transportation Design Parameters, Clinton Middle School, Clinton, MA

Figure 7 Looking West Along West Boylston Street from the West Driveway



Figure 8 Looking East Along West Boylston Street from the West Driveway



Design with community in mind

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Reference: Transportation Design Parameters, Clinton Middle School, Clinton, MA

DESIGN PARAMETERS

The data presented above indicates the design parameters for the school project. The observed parking and queueing conditions relate to the current school enrollment of 572 students. The proposed enrollment represents a 22 percent increase to 700 students. Assuming no change in travel behaviors for the students, staff, and visitors and no change in pick-up/drop-off operations, the parking and queueing requirements would increase proportionally to the enrollment change. Based on this assumption, design parameters for the new campus are presented in Table 6. In Table 6, the Parent Vehicle Queuing – PM calculations include 32 existing vehicles in the designated queue around the school building plus others "queued" in the front of the building (one vehicle) and at the pool (seven vehicles) to present a worst-case scenario.

Item	Existing Condition (572 students)	Per Student Ratio	Proposed Condition (700 students)
Bus Loading - PM (Buses)	7	0.012	9
Staff Parking - Midday (Vehicles)	85	0.149	104
Parent Parking - PM (Vehicles)	6	0.010	7
Parent Vehicle Queuing - AM (Vehicles)	20	0.035	24
Parent Vehicle Queuing - PM (Vehicles)	40	0.070	49

Table 6 Indicated Design Parameters

PLAN EVALUATION

A campus plan has been developed. The plan, shown in Figure 9, has been annotated to call out approximate on-site capacities for school bus pick-up/drop-off and parent pick-up/drop-off. The parking supply reported on the plan is for 116 total spaces. Table 7 compares the proposed conditions to the design parameters indicated in Table 6. This analysis assumes that a bus parked parallel to the curb occupies 40 feet of curb space. Also, passenger cars parked in queues are assumed to occupy 22.5 feet of queue space. This figure represents the queue length per vehicle used under existing conditions. Assuming that the queue begins at the pointed noted on the plan on the north side of the new building and extends along the entire length of the one-way roadway wrapping around the south side of the building, the storage capacity is approximately 58 vehicles.

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Reference: Transportation Design Parameters, Clinton Middle School, Clinton, MA

Figure 9 Proposed Plan



Table 7 Plan Evaluation

Item	Existing Demand (572 students)	Per Student Ratio	Proposed Demand (700 students)	Proposed Capacity	Meets Guidance
Bus Loading (Buses)	7	0.012	9	5	No
Staff Parking (Vehicles)	85	0.149	104	-	-
Visitor Parking (Vehicles)	6	0.01	7	-	-
Total Parking	91	0.159	111	116	No
Parent Vehicle Queuing (Vehicles)	40	0.07	49	58	Yes

As shown, the indicated guidance is not met for bus loading and on-site parking. The approximately 200 feet of curb along the front of the building for bus loading can serve five buses at a time. The predicted demand with the future enrollment is for nine buses. The proposed parking supply is 116 spaces and the expected demand is 111 vehicles. Parking lots are typically designed with five to ten percent reserve capacity to minimize travel time and distance when searching for an empty space and to ensure adequate

Design with community in mind

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Reference: Transportation Design Parameters, Clinton Middle School, Clinton, MA

capacity to accommodate daily variations in peak demand. As such, closer to 130 spaces should be considered to accommodate an estimated 111 future vehicles.

RECOMMENDATIONS

Based on the above observations and analyses, changes to the proposed campus plan and/or campus operations are recommended. Concerning parking, the currently proposed on-site parking supply is not adequate to serve projected future campus needs. Consideration should be given to adding parking spaces. Alternative strategies would include limiting future parking demand (with, for example, a mandatory carpool program) or securing nearby off-site parking. The bus pick-up/drop-off area also is undersized. A wider loading zone allowing buses to park diagonally would increase the capacity. Still, angle parking may not fully meet the expected future demand. An alternative configuration could be considered, or a policy could be adopted that staggers bus arrivals at the loading area by using an upstream, on-site staging area. Finally, with respect to pedestrian access, students walk from the school to the pool parking lot just east of the campus to be picked up in the afternoon. Assuming that this practice continues under the proposed plan, a sidewalk should be provided along the east side of the East Driveway. Students walking to the pool lot would then not have to cross the East Driveway.

We trust that the above will help inform the school's feasibility study. We look forward to working with the project team to complete the study. Please do not hesitate to call should you have questions regarding the above.

Regards,

Stantec Consulting Services Inc.

Thehand & Bryant

Mr. Richard S. Bryant, PE Senior Associate Phone: 802 324 8454 Rick.Bryant@stantec.com

CC: Walt Woo, Mitul Ostwal Attachments: Traffic Counts, Field Data Summaries, Capacity Analysis Worksheets

Groups Printed- Cars - Trucks													
	Athl	etic Comple	ex	W	Boylston St	t	Middle	School W	Dwy	W	Boylston St	t	
	F	rom North		F	rom East		F	rom South		Fr	om West		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00 AM	0	0	0	5	15	0	0	0	0	0	10	2	32
07:05 AM	0	0	0	9	34	0	0	0	0	0	23	5	71
07:10 AM	0	0	0	12	36	0	0	0	1	0	31	5	85
07:15 AM	0	0	0	11	47	0	0	0	0	0	34	1	93
07:20 AM	0	0	0	9	35	1	0	0	0	0	45	2	92
07:25 AM	0	0	0	8	6	0	0	0	0	0	30	2	46
07:30 AM	0	0	0	17	13	0	1	0	2	0	14	8	55
07:35 AM	0	0	0	16	6	0	0	0	4	0	15	5	46
07:40 AM	0	0	0	14	12	0	2	0	2	0	11	8	49
07:45 AM	0	0	0	27	4	0	4	0	13	0	12	11	71
07:50 AM	0	0	0	26	13	1	1	0	28	1	21	8	99
07:55 AM	0	0	0	22	20	0	0	0	10	0	14	2	68
Total	0	0	0	176	241	2	8	0	60	1	260	59	807
08:00 AM	0	0	0	6	10	0	2	0	1	1	16	1	37
08:05 AM	0	0	1	3	7	0	0	0	0	0	18	0	29
08:10 AM	1	0	0	4	14	0	0	0	0	0	9	1	29
08:15 AM	0	0	0	2	10	0	0	0	0	0	20	0	32
08:20 AM	0	0	0	6	11	0	0	0	0	0	16	0	33
08:25 AM	0	0	1	5	8	0	1	0	0	0	15	0	30
08:30 AM	0	0	0	7	9	0	0	0	0	0	15	2	33
08:35 AM	0	0	0	6	14	1	0	0	0	0	8	0	29
08:40 AM	0	0	0	0	19	0	1	0	2	0	17	0	39
08:45 AM	0	0	0	0	12	0	0	0	0	0	16	1	29
08:50 AM	0	0	0	1	9	0	0	0	0	0	17	0	27
08:55 AM	0	0	0	1	13	0	0	0	0	0	13	0	27
Total	1	0	2	41	136	1	4	0	3	1	180	5	374
Grand Total	1	0	2	217	377	3	12	0	63	2	440	64	1181
Apprch %	33.3	0	66.7	36.3	63.1	0.5	16	0	84	0.4	87	12.6	
Total %	0.1	0	0.2	18.4	31.9	0.3	1	0	5.3	0.2	37.3	5.4	
Cars	1	0	2	205	364	3	12	0	63	2	428	64	1144
% Cars	100	0	100	94.5	96.6	100	100	0	100	100	97.3	100	96.9
Trucks	0	0	0	12	13	0	0	0	0	0	12	0	37
% Trucks	0	0	0	5.5	3.4	0	0	0	0	0	2.7	0	3.1

		Athletic From	Comple	x	W Boylston St From East					Middle School W Dwy From South				W Boylston St From West				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total	
Peak Hour Anal	ysis Fron	n 07:00	AM to 0	8:55 AM -	Peak 1	of 1						·						
Peak Hour for E	ntire Inte	rsectior	n Begins	at 07:05	AM													
07:05 AM	0	0	0	0	9	34	0	43	0	0	0	0	0	23	5	28	71	
07:10 AM	0	0	0	0	12	36	0	48	0	0	1	1	0	31	5	36	85	
07:15 AM	0	0	0	0	11	47	0	58	0	0	0	0	0	34	1	35	93	
07:20 AM	0	0	0	0	9	35	1	45	0	0	0	0	0	45	2	47	92	
07:25 AM	0	0	0	0	8	6	0	14	0	0	0	0	0	30	2	32	46	
07:30 AM	0	0	0	0	17	13	0	30	1	0	2	3	0	14	8	22	55	
07:35 AM	0	0	0	0	16	6	0	22	0	0	4	4	0	15	5	20	46	
07:40 AM	0	0	0	0	14	12	0	26	2	0	2	4	0	11	8	19	49	
07:45 AM	0	0	0	0	27	4	0	31	4	0	13	17	0	12	11	23	71	
07:50 AM	0	0	0	0	26	13	1	40	1	0	28	29	1	21	8	30	99	
07:55 AM	0	0	0	0	22	20	0	42	0	0	10	10	0	14	2	16	68	
08:00 AM	0	0	0	0	6	10	0	16	2	0	1	3	1	16	1	18	37	
Total Volume	0	0	0	0	177	236	2	415	10	0	61	71	2	266	58	326	812	
% App. Total	0	0	0		42.7	56.9	0.5		14.1	0	85.9		0.6	81.6	17.8			
PHF	.000	.000	.000	.000	.546	.418	.167	.596	.208	.000	.182	.204	.167	.493	.439	.578	.684	
Cars	0	0	0	0	165	226	2	393	10	0	61	71	2	257	58	317	781	
% Cars	0	0	0	0	93.2	95.8	100	94.7	100	0	100	100	100	96.6	100	97.2	96.2	
Trucks	0	0	0	0	12	10	0	22	0	0	0	0	0	9	0	9	31	
% Trucks	0	0	0	0	6.8	4.2	0	5.3	0	0	0	0	0	3.4	0	2.8	3.8	



Peak Hour Analysis From 07:00 AM to 08:55 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

	07:30 AM				07.00 AM				07:05 AM				07:05 AM			
+0 mine	07.007.00	0	0	0	5	15	0	20	07.007.00	0	0	0	07.007.00	22	5	28
+0 mms.	0	0	0	0	5	10	0	20	0	0	0	0	0	23	5	20
+5 mins.	0	0	0	0	9	34	0	43	0	0	1	1	0	31	5	36
+10 mins.	0	0	0	0	12	36	0	48	0	0	0	0	0	34	1	35
+15 mins.	0	0	0	0	11	47	0	58	0	0	0	0	0	45	2	47
+20 mins.	0	0	0	0	9	35	1	45	0	0	0	0	0	30	2	32
+25 mins.	0	0	0	0	8	6	0	14	1	0	2	3	0	14	8	22
+30 mins.	0	0	0	0	17	13	0	30	0	0	4	4	0	15	5	20
+35 mins.	0	0	1	1	16	6	0	22	2	0	2	4	0	11	8	19
+40 mins.	1	0	0	1	14	12	0	26	4	0	13	17	0	12	11	23
+45 mins.	0	0	0	0	27	4	0	31	1	0	28	29	1	21	8	30
+50 mins.	0	0	0	0	26	13	1	40	0	0	10	10	0	14	2	16
+55 mins.	0	0	1	1	22	20	0	42	2	0	1	3	1	16	1	18
Total Volume	1	0	2	3	176	241	2	419	10	0	61	71	2	266	58	326
% App. Total	33.3	0	66.7		42	57.5	0.5		14.1	0	85.9		0.6	81.6	17.8	
PHF	.083	.000	.167	.250	.543	.427	.167	.602	.208	.000	.182	.204	.167	.493	.439	.578
Cars	1	0	2	3	164	232	2	398	10	0	61	71	2	257	58	317
% Cars	100	0	100	100	93.2	96.3	100	95	100	0	100	100	100	96.6	100	97.2
Trucks	0	0	0	0	12	9	0	21	0	0	0	0	0	9	0	9
% Trucks	0	0	0	0	6.8	3.7	0	5	0	0	0	0	0	3.4	0	2.8



Accurate Counts 978-664-2565

		Groups Printed- Cars												
		Ath	letic Comple	ex	W	Boylston S	St	Middle	e School W	Dwy	W	Boylston St	t	
		F	rom North		F	rom East		F	rom South		F	rom West		
Start T	ime	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
07:00	AM	0	0	0	5	15	0	0	0	0	0	10	2	32
07:05	AM	0	0	0	9	33	0	0	0	0	0	23	5	70
07:10	AM	0	0	0	12	32	0	0	0	1	0	28	5	78
07:15	AM	0	0	0	11	44	0	0	0	0	0	31	1	87
07:20	AM	0	0	0	9	35	1	0	0	0	0	44	2	91
07:25	AM	0	0	0	8	6	0	0	0	0	0	29	2	45
07:30	AM	0	0	0	16	13	0	1	0	2	0	13	8	53
07:35	AM	0	0	0	15	6	0	0	0	4	0	15	5	45
07:40	AM	0	0	0	14	11	0	2	0	2	0	11	8	48
07:45	AM	0	0	0	21	4	0	4	0	13	0	12	11	65
07:50	AM	0	0	0	22	13	1	1	0	28	1	21	8	95
07:55	AM	0	0	0	22	20	0	0	0	10	0	14	2	68
Т	otal	0	0	0	164	232	2	8	0	60	1	251	59	777
08:00	AM	0	0	0	6	9	0	2	0	1	1	16	1	36
08:05	AM	0	0	1	3	7	0	0	0	0	0	18	0	29
08:10	AM	1	0	0	4	14	0	0	0	0	0	8	1	28
08:15	AM	0	0	0	2	10	0	0	0	0	0	20	0	32
08:20	AM	0	0	0	6	11	0	0	0	0	0	15	0	32
08:25	AM	0	0	1	5	7	0	1	0	0	0	15	0	29
08:30	AM	0	0	0	7	9	0	0	0	0	0	15	2	33
08:35	AM	0	0	0	6	14	1	0	0	0	0	8	0	29
08:40	AM	0	0	0	0	17	0	1	0	2	0	16	0	36
08:45	AM	0	0	0	0	12	0	0	0	0	0	16	1	29
08:50	AM	0	0	0	1	9	0	0	0	0	0	17	0	27
08:55	AM	0	0	0	1	13	0	0	0	0	0	13	0	27
Т	otal	1	0	2	41	132	1	4	0	3	1	177	5	367
Grand T	otal	1	0	2	205	364	3	12	0	63	2	428	64	1144
Apprc	h %	33.3	0	66.7	35.8	63.6	0.5	16	0	84	0.4	86.6	13	
Tota	al %	0.1	0	0.2	17.9	31.8	0.3	1	0	5.5	0.2	37.4	5.6	

		Athletic (Complex			W Boy	Iston St		Mie	ddle Scl	hool W	Dwy					
		From	North			From	East			From	South	-		From	West		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analy	sis Fron	n 07:00 /	AM to 08	:55 AM -	Peak 1	of 1	-				-				-		
Peak Hour for E	ntire Inte	rsection	Begins a	at 07:05	٩M												
07:05 AM	0	0	0	0	9	33	0	42	0	0	0	0	0	23	5	28	70
07:10 AM	0	0	0	0	12	32	0	44	0	0	1	1	0	28	5	33	78
07:15 AM	0	0	0	0	11	44	0	55	0	0	0	0	0	31	1	32	87
07:20 AM	0	0	0	0	9	35	1	45	0	0	0	0	0	44	2	46	91
07:25 AM	0	0	0	0	8	6	0	14	0	0	0	0	0	29	2	31	45
07:30 AM	0	0	0	0	16	13	0	29	1	0	2	3	0	13	8	21	53
07:35 AM	0	0	0	0	15	6	0	21	0	0	4	4	0	15	5	20	45
07:40 AM	0	0	0	0	14	11	0	25	2	0	2	4	0	11	8	19	48
07:45 AM	0	0	0	0	21	4	0	25	4	0	13	17	0	12	11	23	65
07:50 AM	0	0	0	0	22	13	1	36	1	0	28	29	1	21	8	30	95
07:55 AM	0	0	0	0	22	20	0	42	0	0	10	10	0	14	2	16	68
08:00 AM	0	0	0	0	6	9	0	15	2	0	1	3	1	16	1	18	36
Total Volume	0	0	0	0	165	226	2	393	10	0	61	71	2	257	58	317	781
% App. Total	0	0	0		42	57.5	0.5		14.1	0	85.9		0.6	81.1	18.3		
PHF	000	000	000	000	625	428	167	595	208	000	182	204	167	487	439	574	685



Peak Hour Analysis From 07:00 AM to 08:55 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

		Dubii Du	ginto at.													
	07:30 AM		-		07:00 AM				07:05 AM				07:05 AM			
+0 mins.	0	0	0	0	5	15	0	20	0	0	0	0	0	23	5	28
+5 mins.	0	0	0	0	9	33	0	42	0	0	1	1	0	28	5	33
+10 mins.	0	0	0	0	12	32	0	44	0	0	0	0	0	31	1	32
+15 mins.	0	0	0	0	11	44	0	55	0	0	0	0	0	44	2	46
+20 mins.	0	0	0	0	9	35	1	45	0	0	0	0	0	29	2	31
+25 mins.	0	0	0	0	8	6	0	14	1	0	2	3	0	13	8	21
+30 mins.	0	0	0	0	16	13	0	29	0	0	4	4	0	15	5	20
+35 mins.	0	0	1	1	15	6	0	21	2	0	2	4	0	11	8	19
+40 mins.	1	0	0	1	14	11	0	25	4	0	13	17	0	12	11	23
+45 mins.	0	0	0	0	21	4	0	25	1	0	28	29	1	21	8	30
+50 mins.	0	0	0	0	22	13	1	36	0	0	10	10	0	14	2	16
+55 mins.	0	0	1	1	22	20	0	42	2	0	1	3	1	16	1	18
Total Volume	1	0	2	3	164	232	2	398	10	0	61	71	2	257	58	317
% App. Total	33.3	0	66.7		41.2	58.3	0.5		14.1	0	85.9		0.6	81.1	18.3	
PHF	.083	000	167	.250	.621	439	167	603	208	000	182	204	167	487	439	574



Accurate Counts 978-664-2565

Groups Printed- Trucks														
	Ath	letic Comple	ex	W	Boylston S	t	Middle	e School W	Dwy	W	W Boylston St			
	From North			From East			F	rom South		F	From West			
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total	
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:05 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	
07:10 AM	0	0	0	0	4	0	0	0	0	0	3	0	7	
07:15 AM	0	0	0	0	3	0	0	0	0	0	3	0	6	
07:20 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	
07:25 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	
07:30 AM	0	0	0	1	0	0	0	0	0	0	1	0	2	
07:35 AM	0	0	0	1	0	0	0	0	0	0	0	0	1	
07:40 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	
07:45 AM	0	0	0	6	0	0	0	0	0	0	0	0	6	
07:50 AM	0	0	0	4	0	0	0	0	0	0	0	0	4	
07:55 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	12	9	0	0	0	0	0	9	0	30	
			- 1						- 1			- 1		
08:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	
08:05 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:10 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:20 AM	0	0	0	0	0	0	0	0	0	0	1	0	1	
08:25 AM	0	0	0	0	1	0	0	0	0	0	0	0	1	
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:35 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:40 AM	0	0	0	0	2	0	0	0	0	0	1	0	3	
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:50 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:55 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	4	0	0	0	0	0	3	0	7	
Grand Total	0	0	٥l	12	13	0	٥	0	0	Ο	12	0	37	
Annrch %	0	0	0	48	52	0	0	0	0	0	100	0	57	
Total %	0	0	0	32.4	35.1	0	0	0	ő	0	32.4	0		
10101 /0	0	5	0	02.1	00.1	0	0	5	01	0	02.1	5		

		Athletic	Complex			W Boy	Iston St		Mi	ddle Scł	nool W I	Dwy	W Boylston St				
		From	North			From	East			From	South	-	From West				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 07:00	AM to 08	:55 AM -	Peak 1	of 1	-				-				-		
Peak Hour for E	ntire Inte	ersection	Begins	at 07:05	AM												
07:05 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
07:10 AM	0	0	0	0	0	4	0	4	0	0	0	0	0	3	0	3	7
07:15 AM	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3	6
07:20 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
07:25 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
07:30 AM	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	1	2
07:35 AM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
07:40 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
07:45 AM	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	0	6
07:50 AM	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0	4
07:55 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
Total Volume	0	0	0	0	12	10	0	22	0	0	0	0	0	9	0	9	31
% App. Total	0	0	0		54.5	45.5	0		0	0	0		0	100	0		
PHF	.000	.000	.000	.000	.167	.208	.000	.306	.000	.000	.000	.000	.000	.250	.000	.250	.369


Peak Hour Analysis From 07:00 AM to 08:55 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

			<u>yms at.</u>													
	07:00 AM		-		07:05 AM				07:00 AM				07:00 AM			
+0 mins.	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
+5 mins.	0	0	0	0	0	4	0	4	0	0	0	0	0	0	0	0
+10 mins.	0	0	0	0	0	3	0	3	0	0	0	0	0	3	0	3
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	3	0	3
+20 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
+25 mins.	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	1
+30 mins.	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	1
+35 mins.	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
+40 mins.	0	0	0	0	6	0	0	6	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	4	0	0	4	0	0	0	0	0	0	0	0
+50 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+55 mins.	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	12	10	0	22	0	0	0	0	0	9	0	9
% App. Total	0	0	0		54.5	45.5	0		0	0	0		0	100	0	
PHF	000	000	000	000	167	208	000	306	000	000	000	000	000	250	000	250



·								Groups	Printec	I- Bikes	Peds								
	A	thletic (Comple	X	١	N Boyl	ston St		Mid	dle Sch	ool W E	Dwy		W Boyl	ston St				
		From	North			From	East			From	South		1	From	West				
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:05 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	1
07:10 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:20 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:25 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	1
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:35 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1
07:40 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1
07:50 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:55 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	2	3	1	4
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	2
08:05 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	1
08:10 AM	Õ	Õ	0	Õ	Ő	Õ	Õ	õ	Õ	Õ	Õ	õ	Ő	Õ	Õ	0	0	Õ	0
08:15 AM	Ō	0	Ō	0	0	Ō	0	Ō	0	Ō	0	Ō	Ō	0	Ō	14	14	0	14
08:20 AM	Ō	0	Ō	0	0	Ō	Õ	0	0	0	0	1	Ō	Ō	Ō	1	2	Ō	2
08:25 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:35 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:40 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:50 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15	15	0	15
08:55 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	15	15	1	16
Total	0	0	0	0	0	1	0	0	0	0	0	2	0	0	0	47	49	1	50
Grand Total	0	0	0	0	0	2	0	0	0	0	0	3	0	0	0	49	52	2	54
Apprch %	0	Ó	Ō	•	0	100	Ó	-	Ó	0	0	-	Ó	Ō	Ō	•		_	
Total %	0	0	0		0	100	0		0	0	0		0	0	0		96.3	3.7	

		Athletic	Complex	x		W Boy	Iston St		Mi	ddle Scl	hool W I	Dwy		W Boy	lston St		
		From	North			From	East			From	South			From	West		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 07:00	AM to 08	8:55 AM -	Peak 1	of 1	-				-				-		
Peak Hour for E	ntire Inte	rsection	Begins	at 07:00	AM												
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:05 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:10 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:20 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:25 AM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:35 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:40 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:50 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:55 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
% App. Total	0	0	0		0	100	0		0	0	0		0	0	0		
PHF	000	000	000	000	000	083	000	083	000	000	000	000	000	000	000	000	083



Peak Hour Analysis From 07:00 AM to 08:55 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

	acii Appi		yms at.													
	07:00 AM		-		07:00 AM				07:00 AM				07:00 AM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+5 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+10 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+20 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+25 mins.	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+35 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+40 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+50 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+55 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	100	0		0	0	0		0	0	0	
PHF	.000	000	000	000	.000	083	.000	083	000	000	000	000	000	000	000	000



					Groups P	rinted- Ca	rs - Trucks						
	Athle	etic Comple	ex	WE	Boylston St	t	Middle	School W	Dwy	WE	Boylston St		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int Total
02:00 PM	0	0	1	11	19	1	0	0	0	0	7	2	41
02:05 PM	0	0	0	4	14	0	Ő	Ő	ő	0	11	1	30
02:10 PM	0 0	Õ	Õ	11	19	0	5	Ő	13	Õ	40	0	88
02:15 PM	0	Ő	ő	4	6	0	0	0	1	Ő	27	2	40
02:20 PM	Ő	õ	Ő	14	16	0	õ	Ő	1	Õ	14	1	46
02:25 PM	Ő	Ő	0		15	1	Õ	Ő	o l	Õ	18	2	45
02:30 PM	Ő	Ő	2	5	17	1	2	0 0	1	0	31	0	59
02:35 PM	Ő	Ő	0	6	21	0	1	Ő	6	Õ	23	1	58
02:40 PM	Ő	1	0	3	18	õ	0 0	Õ	1	Õ	14	2	39
02:45 PM	0	0	0	1	12	1	0	1	0	0	17	0	32
02:50 PM	0	0	1	1	11	0	3	0	0	0	12	0	28
02:55 PM	Ő	Ő	0	1	21	1	3	Õ	1	2	19	Õ	48
Total	0	1	4	70	189	5	14	1	24	2	233	11	554
03:00 PM	0	0	0	1	18	2	0	2	0	4	15	0	42
03:05 PM	0	0	1	4	17	4	1	0	2	4	16	0	49
03:10 PM	1	0	2	1	14	4	1	0	1	3	13	1	41
03:15 PM	0	0	0	5	14	4	1	0	0	6	15	0	45
03:20 PM	2	1	0	3	23	9	1	0	0	4	20	1	64
03:25 PM	0	1	0	11	15	12	1	0	2	4	21	0	67
03:30 PM	0	0	0	6	10	8	0	0	0	3	20	1	48
03:35 PM	0	0	0	7	24	3	2	0	0	2	22	0	60
03:40 PM	3	0	0	3	12	5	1	0	0	1	17	1	43
03:45 PM	0	0	1	5	23	6	2	0	0	3	15	0	55
03:50 PM	2	0	0	5	19	2	0	0	1	2	16	0	47
03:55 PM	1	0	0	5	17	2	0	0	1	0	13	0	39
Total	9	2	4	56	206	61	10	2	7	36	203	4	600
	0	0	0	400	005		0.4	0	04	00	400	45	4454
Grand Total	9	3	8	126	395	60	24	3	31	38	436	15	1154
Apprcn %	45	15	40	21.5	67.3	11.2	41.4	5.2	53.4	7.8	89.2	3.1	
 I otal %	0.8	0.3	0.7	10.9	34.2	5.7	2.1	0.3	2.7	3.3	37.8	1.3	
Cars	8	3	07.5	113	382	65	24	3	31	37	424	15	1112
 % Cars	88.9	100	87.5	89.7	96.7	98.5	100	100	100	97.4	97.2	100	96.4
	1	U	1	13	13	1	0	0	0	1	12	0	42
% Irucks	11.1	0	12.5	10.3	3.3	1.5	0	0	0	2.6	2.8	0	3.6

		Athletic	Comple	х		W Boy	lston St		Mi	ddle Scl	hool W I	Dwy		W Boy	lston St		
		From	North			From	n East			From	South			From	West		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 02:00	PM to 0	3:55 PM ·	Peak 1	of 1											
Peak Hour for E	ntire Inte	rsectior	n Begins	at 02:55	PM												
02:55 PM	0	0	0	0	1	21	1	23	3	0	1	4	2	19	0	21	48
03:00 PM	0	0	0	0	1	18	2	21	0	2	0	2	4	15	0	19	42
03:05 PM	0	0	1	1	4	17	4	25	1	0	2	3	4	16	0	20	49
03:10 PM	1	0	2	3	1	14	4	19	1	0	1	2	3	13	1	17	41
03:15 PM	0	0	0	0	5	14	4	23	1	0	0	1	6	15	0	21	45
03:20 PM	2	1	0	3	3	23	9	35	1	0	0	1	4	20	1	25	64
03:25 PM	0	1	0	1	11	15	12	38	1	0	2	3	4	21	0	25	67
03:30 PM	0	0	0	0	6	10	8	24	0	0	0	0	3	20	1	24	48
03:35 PM	0	0	0	0	7	24	3	34	2	0	0	2	2	22	0	24	60
03:40 PM	3	0	0	3	3	12	5	20	1	0	0	1	1	17	1	19	43
03:45 PM	0	0	1	1	5	23	6	34	2	0	0	2	3	15	0	18	55
03:50 PM	2	0	0	2	5	19	2	26	0	0	1	1	2	16	0	18	47
Total Volume	8	2	4	14	52	210	60	322	13	2	7	22	38	209	4	251	609
% App. Total	57.1	14.3	28.6		16.1	65.2	18.6		59.1	9.1	31.8		15.1	83.3	1.6		
PHF	.222	.167	.167	.389	.394	.729	.417	.706	.361	.083	.292	.458	.528	.792	.333	.837	.757
Cars	7	2	4	13	51	209	60	320	13	2	7	22	37	208	4	249	604
% Cars	87.5	100	100	92.9	98.1	99.5	100	99.4	100	100	100	100	97.4	99.5	100	99.2	99.2
Trucks	1	0	0	1	1	1	0	2	0	0	0	0	1	1	0	2	5
% Trucks	12.5	0	0	7.1	1.9	0.5	0	0.6	0	0	0	0	2.6	0.5	0	0.8	0.8



Peak Hour Analysis From 02:00 PM to 03:55 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

	acii Appi		Jynis at													
	03:00 PM		-		03:00 PM				02:10 PM				02:10 PM			
+0 mins.	0	0	0	0	1	18	2	21	5	0	13	18	0	40	0	40
+5 mins.	0	0	1	1	4	17	4	25	0	0	1	1	0	27	2	29
+10 mins.	1	0	2	3	1	14	4	19	0	0	1	1	0	14	1	15
+15 mins.	0	0	0	0	5	14	4	23	0	0	0	0	0	18	2	20
+20 mins.	2	1	0	3	3	23	9	35	2	0	1	3	0	31	0	31
+25 mins.	0	1	0	1	11	15	12	38	1	0	6	7	0	23	1	24
+30 mins.	0	0	0	0	6	10	8	24	0	0	1	1	0	14	2	16
+35 mins.	0	0	0	0	7	24	3	34	0	1	0	1	0	17	0	17
+40 mins.	3	0	0	3	3	12	5	20	3	0	0	3	0	12	0	12
+45 mins.	0	0	1	1	5	23	6	34	3	0	1	4	2	19	0	21
+50 mins.	2	0	0	2	5	19	2	26	0	2	0	2	4	15	0	19
+55 mins.	1	0	0	1	5	17	2	24	1	0	2	3	4	16	0	20
Total Volume	9	2	4	15	56	206	61	323	15	3	26	44	10	246	8	264
% App. Total	60	13.3	26.7		17.3	63.8	18.9		34.1	6.8	59.1		3.8	93.2	3	
PHF	.250	.167	.167	.417	.424	.715	.424	.708	.250	.125	.167	.204	.208	.513	.333	.550
Cars	8	2	4	14	55	203	61	319	15	3	26	44	10	235	8	253
% Cars	88.9	100	100	93.3	98.2	98.5	100	98.8	100	100	100	100	100	95.5	100	95.8
Trucks	1	0	0	1	1	3	0	4	0	0	0	0	0	11	0	11
% Trucks	11.1	0	0	6.7	1.8	1.5	0	1.2	0	0	0	0	0	4.5	0	4.2



					Grou	ps Printeg	d- Cars						
	Athle	etic Comple	x	WE	Boylston St		Middle	School W	Dwy	W E	Boylston St		
	FI	rom North		Fr	om East		Fr	om South		Fr	om West		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
02:00 PM	0	0	0	11	15	0	0	0	0	0	7	2	35
02:05 PM	0	0	0	4	13	0	0	0	0	0	11	1	29
02:10 PM	0	0	0	10	18	0	5	0	13	0	32	0	78
02:15 PM	0	0	0	4	6	0	0	0	1	0	26	2	39
02:20 PM	0	0	0	13	16	0	0	0	1	0	14	1	45
02:25 PM	0	0	0	6	15	1	0	0	0	0	18	2	42
02:30 PM	0	0	2	3	15	1	2	0	1	0	30	0	54
02:35 PM	0	0	0	3	20	0	1	0	6	0	23	1	54
02:40 PM	0	1	0	3	18	0	0	0	1	0	13	2	38
02:45 PM	0	0	0	0	11	1	0	1	0	0	17	0	30
02:50 PM	0	0	1	1	11	0	3	0	0	0	12	0	28
02:55 PM	0	0	0	0	21	1	3	0	1	2	19	0	47
Total	0	1	3	58	179	4	14	1	24	2	222	11	519
03:00 PM	0	0	0	1	18	2	0	2	0	4	15	0	42
03:05 PM	0	0	1	4	17	4	1	0	2	4	16	0	49
03:10 PM	0	0	2	1	14	4	1	0	1	2	13	1	39
03:15 PM	0	0	0	5	14	4	1	0	0	6	15	0	45
03:20 PM	2	1	0	3	23	9	1	0	0	4	20	1	64
03:25 PM	0	1	0	11	15	12	1	0	2	4	21	0	67
03:30 PM	0	0	0	6	10	8	0	0	0	3	20	1	48
03:35 PM	0	0	0	7	23	3	2	0	0	2	22	0	59
03:40 PM	3	0	0	3	12	5	1	0	0	1	16	1	42
03:45 PM	0	0	1	5	23	6	2	0	0	3	15	0	55
03:50 PM	2	0	0	5	19	2	0	0	1	2	16	0	47
03:55 PM	1	0	0	4	15	2	0	0	1	0	13	0	36
Total	8	2	4	55	203	61	10	2	7	35	202	4	593
Grand Total	8	3	7	113	382	65	24	3	31	37	424	15	1112
Apprch %	44.4	16.7	38.9	20.2	68.2	11.6	41.4	5.2	53.4	7.8	89.1	3.2	
Total %	0.7	0.3	0.6	10.2	34.4	5.8	2.2	0.3	2.8	3.3	38.1	1.3	

		Athletic	Comple	x		W Boy	Iston St		Mie	ddle Scl	nool W I	Dwy		W Boy	Iston St		
		From	North			From	i East			From	South	-		From	West		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fror	n 02:00	PM to 0	3:55 PM -	Peak 1	of 1	-				-				-		
Peak Hour for E	ntire Inte	rsection	Begins	at 02:55	PM												
02:55 PM	0	0	0	0	0	21	1	22	3	0	1	4	2	19	0	21	47
03:00 PM	0	0	0	0	1	18	2	21	0	2	0	2	4	15	0	19	42
03:05 PM	0	0	1	1	4	17	4	25	1	0	2	3	4	16	0	20	49
03:10 PM	0	0	2	2	1	14	4	19	1	0	1	2	2	13	1	16	39
03:15 PM	0	0	0	0	5	14	4	23	1	0	0	1	6	15	0	21	45
03:20 PM	2	1	0	3	3	23	9	35	1	0	0	1	4	20	1	25	64
03:25 PM	0	1	0	1	11	15	12	38	1	0	2	3	4	21	0	25	67
03:30 PM	0	0	0	0	6	10	8	24	0	0	0	0	3	20	1	24	48
03:35 PM	0	0	0	0	7	23	3	33	2	0	0	2	2	22	0	24	59
03:40 PM	3	0	0	3	3	12	5	20	1	0	0	1	1	16	1	18	42
03:45 PM	0	0	1	1	5	23	6	34	2	0	0	2	3	15	0	18	55
03:50 PM	2	0	0	2	5	19	2	26	0	0	1	1	2	16	0	18	47
Total Volume	7	2	4	13	51	209	60	320	13	2	7	22	37	208	4	249	604
% App. Total	53.8	15.4	30.8		15.9	65.3	18.8		59.1	9.1	31.8		14.9	83.5	1.6		
PHF	104	167	167	361	386	757	417	702	361	083	202	458	514	788	222	830	751



Peak Hour Analysis From 02:00 PM to 03:55 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

	aon / appi	ouon be	sginto at.													
	03:00 PM		-		02:55 PM				02:10 PM				02:10 PM			
+0 mins.	0	0	0	0	0	21	1	22	5	0	13	18	0	32	0	32
+5 mins.	0	0	1	1	1	18	2	21	0	0	1	1	0	26	2	28
+10 mins.	0	0	2	2	4	17	4	25	0	0	1	1	0	14	1	15
+15 mins.	0	0	0	0	1	14	4	19	0	0	0	0	0	18	2	20
+20 mins.	2	1	0	3	5	14	4	23	2	0	1	3	0	30	0	30
+25 mins.	0	1	0	1	3	23	9	35	1	0	6	7	0	23	1	24
+30 mins.	0	0	0	0	11	15	12	38	0	0	1	1	0	13	2	15
+35 mins.	0	0	0	0	6	10	8	24	0	1	0	1	0	17	0	17
+40 mins.	3	0	0	3	7	23	3	33	3	0	0	3	0	12	0	12
+45 mins.	0	0	1	1	3	12	5	20	3	0	1	4	2	19	0	21
+50 mins.	2	0	0	2	5	23	6	34	0	2	0	2	4	15	0	19
+55 mins.	1	0	0	1	5	19	2	26	1	0	2	3	4	16	0	20
Total Volume	8	2	4	14	51	209	60	320	15	3	26	44	10	235	8	253
% App. Total	57.1	14.3	28.6		15.9	65.3	18.8		34.1	6.8	59.1		4	92.9	3.2	
PHF	.222	167	.167	.389	.386	.757	.417	702	250	125	167	204	208	612	333	659



					Group	s Printed-	Trucks						
	Athle	etic Comple	x	W E	Boylston St		Middle	School W	Dwy	W E	Boylston St		
	Fr	om North		Fr	om East		Fr	<u>om South</u>		Fro	om West		
Start Time	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Int. Total
02:00 PM	0	0	1	0	4	1	0	0	0	0	0	0	6
02:05 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
02:10 PM	0	0	0	1	1	0	0	0	0	0	8	0	10
02:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
02:20 PM	0	0	0	1	0	0	0	0	0	0	0	0	1
02:25 PM	0	0	0	3	0	0	0	0	0	0	0	0	3
02:30 PM	0	0	0	2	2	0	0	0	0	0	1	0	5
02:35 PM	0	0	0	3	1	0	0	0	0	0	0	0	4
02:40 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
02:45 PM	0	0	0	1	1	0	0	0	0	0	0	0	2
02:50 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
02:55 PM	0	0	0	1	0	0	0	0	0	0	0	0	1
Total	0	0	1	12	10	1	0	0	0	0	11	0	35
1												i.	
03:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:05 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:10 PM	1	0	0	0	0	0	0	0	0	1	0	0	2
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:20 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:25 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:35 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
03:40 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:50 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
03:55 PM	0	0	0	1	2	0	0	0	0	0	0	0	3
Total	1	0	0	1	3	0	0	0	0	1	1	0	7
Grand Total	1	0	1	13	13	1	0	0	0	1	12	0	42
Annrch %	50	0	50	48.1	48.1	37	0	0	0	77	923	0	72
Total %	2.4	Ő	2.4	31	31	2.4	0	Ő	0	2.4	28.6	0	
		-		• •	• •		-	-	- 1			- 1	

		Athletic	Complex	x		W Boy	Iston St		Mi	ddle Sch	nool W E)wy		W Boy	Iston St		
		From	North			From	n East			From	South	-		From	West		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analy	ysis Fron	n 02:00	PM to 0	3:55 PM ·	Peak 1	of 1	-				-				-		
Peak Hour for E	ntire Inte	rsection	Begins	at 02:00	PM												
02:00 PM	0	0	1	1	0	4	1	5	0	0	0	0	0	0	0	0	6
02:05 PM	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	1
02:10 PM	0	0	0	0	1	1	0	2	0	0	0	0	0	8	0	8	10
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
02:20 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
02:25 PM	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	3
02:30 PM	0	0	0	0	2	2	0	4	0	0	0	0	0	1	0	1	5
02:35 PM	0	0	0	0	3	1	0	4	0	0	0	0	0	0	0	0	4
02:40 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1
02:45 PM	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0	2
02:50 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:55 PM	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	1
Total Volume	0	0	1	1	12	10	1	23	0	0	0	0	0	11	0	11	35
% App. Total	0	0	100		52.2	43.5	4.3		0	0	0		0	100	0		
PHF	.000	.000	.083	.083	.333	.208	.083	.383	.000	.000	.000	.000	.000	.115	.000	.115	.292



Peak Hour Analysis From 02:00 PM to 03:55 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

	aon / appr		gino at.													
	02:00 PM		-		02:00 PM				02:00 PM				02:00 PM			
+0 mins.	0	0	1	1	0	4	1	5	0	0	0	0	0	0	0	0
+5 mins.	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0
+10 mins.	0	0	0	0	1	1	0	2	0	0	0	0	0	8	0	8
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
+20 mins.	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
+25 mins.	0	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	2	2	0	4	0	0	0	0	0	1	0	1
+35 mins.	0	0	0	0	3	1	0	4	0	0	0	0	0	0	0	0
+40 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1
+45 mins.	0	0	0	0	1	1	0	2	0	0	0	0	0	0	0	0
+50 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+55 mins.	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0
Total Volume	0	0	1	1	12	10	1	23	0	0	0	0	0	11	0	11
% App. Total	0	0	100		52.2	43.5	4.3		0	0	0		0	100	0	
PHF	.000	000	083	.083	.333	.208	083	.383	000	000	000	000	000	115	000	115



								Groups	Printed	l- Bikes	Peds								
	A	thletic (Comple	х	1	W Boyl	ston St		Mide	dle Sch	ool W E	Dwy		W Boyl	ston St				
		From	North			From	East			From	South			From	West				
Start Time	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Left	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:05 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:10 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:20 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:25 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	0	3
02:35 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	11	0	11
02:40 PM	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2	0	2
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1	2	0	2
02:50 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:55 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0	15	18	0	18
03.00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28	28	0	28
03:05 PM	Ő	Õ	Ő	Ő	Ő	õ	Ő	Ő	Õ	Ő	Õ	Ő	Õ	Ő	Ő	1	1	Ő	1
03·10 PM	Ő	Ő	0	0	Ő	õ	Ő	ő	Ő	0	Ő	Ő	Ő	Ő	ő	0	0	Ő	0
03:15 PM	Ő	Ő	0	0	Ő	õ	Ő	2	Ő	0	Ő	Ő	Ő	Ő	ő	3	5	Ő	5
03·20 PM	Ő	õ	Ő	Ő	Ő	õ	Ő	0	õ	Ő	õ	Ő	õ	Ő	Ő	0	0	Ő	0
03:25 PM	Ő	õ	0	õ	0	õ	õ	Ő	õ	õ	Ő	Ő	õ	Ő	Õ	õ	0	Ő	0
03:30 PM	Ő	Ő	Õ	õ	0	Ő	0	0	Õ	Ő	Õ	Ő	Õ	0	0	2	2	0	2
03:35 PM	Ő	õ	0	õ	0	õ	õ	Ő	õ	õ	Ő	Ő	õ	Ő	Õ	2	2	Ő	2
03:40 PM	Ő	Õ	õ	õ	0	Ő	Ő	Ő	Õ	Õ	Õ	Ő	Õ	0	0	0	0	0	0
03:45 PM	Ő	Õ	Õ	õ	0	Ő	Ő	0	Õ	Õ	Õ	Ő	Õ	0	0	2	2	0	2
03:50 PM	Ő	Ő	Õ	Õ	0	Ő	0	0	Õ	Ő	Õ	Ő	Õ	0	0	0	0	0	0
03:55 PM	Ő	õ	0	õ	0	õ	õ	Ő	õ	õ	Ő	Ő	õ	Ő	Õ	õ	0	Ő	0
Total	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	38	40	0	40
Grand Total Apprch %	0 0	0 0	0 0	0	0 0	0 0	0 0	2	0 0	0 0	0 0	3	0 0	0 0	0 0	53	58	0	58
I otal %																	100	0	

		Athletic Complex W Boylston St From North From East						Mi	ddle Scl	hool W I	Dwy		W Boy	lston St			
		From	North			From	East			From	South			From	West		
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Anal	ysis Fron	n 02:00	PM to 03	3:55 PM -	Peak 1	of 1	-				-				-		
Peak Hour for E	ntire Inte	rsection	Begins	at 02:00	PM												
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:05 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:10 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:20 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:25 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:35 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:40 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:50 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:55 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0		
PHF	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000



Peak Hour Analysis From 02:00 PM to 03:55 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

		<u> 30011 DC</u>	<u>yms at.</u>													
	02:00 PM		-		02:00 PM				02:00 PM				02:00 PM			
+0 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+5 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+10 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+20 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+25 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+35 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+40 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+50 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
+55 mins.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0	0		0	0	0		0	0	0		0	0	0	
PHF	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000	000



	Middle School V	V Dwy	Middle School	Lot	High School I	Lot	
	From North	י בייק ר	From South		From West		
Start Time	Thru	Right	Left	Thru	Left	Right	Int. Total
07:00 AM	2	5	0	0	0	0	7
07:05 AM	5	9	0	0	0	0	14
07:10 AM	6	12	0	0	1	2	21
07:15 AM	2	9	0	0	0	1	12
07:20 AM	6	6	0	0	0	1	13
07:25 AM	9	1	0	0	0	0	10
07:30 AM	23	1	0	3	0	0	27
07:35 AM	20	0	0	4	0	0	24
07:40 AM	24	1	0	5	0	1	31
07:45 AM	37	0	0	19	0	0	56
07:50 AM	34	0	0	27	0	0	61
07:55 AM	23	0	0	11	0	0	34
Total	191	44	0	69	1	5	310
				1			
08:00 AM	8	0	0	2	0	0	10
08:05 AM	3	0	0	0	0	0	3
08:10 AM	5	0	0	0	0	0	5
08:15 AM	1	1	0	0	0	1	3
08:20 AM	4	2	0	0	0	0	6
08:25 AM	2	3	0	1	0	0	6
08:30 AM	6	3	0	0	0	0	9
08:35 AM	4	2	0	0	0	1	7
08:40 AM	0	0	1	3	0	0	4
08:45 AM	1	0	0	0	0	0	1
08:50 AM	1	0	0	0	0	0	1
08:55 AM	1	0	0	0	0	0	1
Total	36	11	1	6	0	2	56
						- 1	
Grand Lotal	227	55	1	75	1	/	366
Apprch %	80.5	19.5	1.3	98.7	12.5	87.5	
iotal %	62	15	0.3	20.5	0.3	1.9	054
Cars	216	55	1	/5	1	6	354
% Cars	95.2	100	100	100	100	85.7	96.7
	11	U	U	U	U	1	12
% I rucks	4.8	0	U	0	0	14.3	3.3

	Mido	lle School W	' Dwy	N	liddle School	Lot	l	High School L	_ot	
		From North	-		From South	า		From West		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From	n 07:00 AM to	08:55 AM -	Peak 1 of 1							
Peak Hour for Entire Inte	rsection Begir	ns at 07:05 A	M							
07:05 AM	5	9	14	0	0	0	0	0	0	14
07:10 AM	6	12	18	0	0	0	1	2	3	21
07:15 AM	2	9	11	0	0	0	0	1	1	12
07:20 AM	6	6	12	0	0	0	0	1	1	13
07:25 AM	9	1	10	0	0	0	0	0	0	10
07:30 AM	23	1	24	0	3	3	0	0	0	27
07:35 AM	20	0	20	0	4	4	0	0	0	24
07:40 AM	24	1	25	0	5	5	0	1	1	31
07:45 AM	37	0	37	0	19	19	0	0	0	56
07:50 AM	34	0	34	0	27	27	0	0	0	61
07:55 AM	23	0	23	0	11	11	0	0	0	34
08:00 AM	8	0	8	0	2	2	0	0	0	10
Total Volume	197	39	236	0	71	71	1	5	6	313
% App. Total	83.5	16.5		0	100		16.7	83.3		
PHF	.444	.271	.532	.000	.219	.219	.083	.208	.167	.428
Cars	186	39	225	0	71	71	1	4	5	301
% Cars	94.4	100	95.3	0	100	100	100	80.0	83.3	96.2
Trucks	11	0	11	0	0	0	0	1	1	12
% Trucks	5.6	0	4.7	0	0	0	0	20.0	16.7	3.8



Peak Hour Analysis From 07:00 AM to 08:55 AM - Peak 1 of 1

Peak Hour for Each App	roach Begins	at:							
	07:05 AM			07:30 AM			07:00 AM		
+0 mins.	5	9	14	0	3	3	0	0	0
+5 mins.	6	12	18	0	4	4	0	0	0
+10 mins.	2	9	11	0	5	5	1	2	3
+15 mins.	6	6	12	0	19	19	0	1	1
+20 mins.	9	1	10	0	27	27	0	1	1
+25 mins.	23	1	24	0	11	11	0	0	0
+30 mins.	20	0	20	0	2	2	0	0	0
+35 mins.	24	1	25	0	0	0	0	0	0
+40 mins.	37	0	37	0	0	0	0	1	1
+45 mins.	34	0	34	0	0	0	0	0	0
+50 mins.	23	0	23	0	0	0	0	0	0
+55 mins.	8	0	8	0	1	1	0	0	0
Total Volume	197	39	236	0	72	72	1	5	6
% App. Total	83.5	16.5		0	100		16.7	83.3	
PHF	.444	.271	.532	.000	.222	.222	.083	.208	.167
Cars	186	39	225	0	72	72	1	4	5
% Cars	94.4	100	95.3	0	100	100	100	80	83.3
Trucks	11	0	11	0	0	0	0	1	1
% Trucks	5.6	0	4.7	0	0	0	0	20	16.7



		Gr	oups Printed- Cars				
	Middle School W	Dwy	Middle School	Lot	High School I	_ot	
	From North	-	From South		From West		
Start Time	Thru	Right	Left	Thru	Left	Right	Int. Total
07:00 AM	2	5	0	0	0	0	7
07:05 AM	5	9	0	0	0	0	14
07:10 AM	6	12	0	0	1	1	20
07:15 AM	2	9	0	0	0	1	12
07:20 AM	6	6	0	0	0	1	13
07:25 AM	9	1	0	0	0	0	10
07:30 AM	22	1	0	3	0	0	26
07:35 AM	19	0	0	4	0	0	23
07:40 AM	24	1	0	5	0	1	31
07:45 AM	32	0	0	19	0	0	51
07:50 AM	30	0	0	27	0	0	57
07:55 AM	23	0	0	11	0	0	34
Total	180	44	0	69	1	4	298
08:00 AM	8	0	0	2	0	0	10
08:05 AM	3	0	0	0	0	0	3
08:10 AM	5	0	0	0	0	0	5
08:15 AM	1	1	0	0	0	1	3
08:20 AM	4	2	0	0	0	0	6
08:25 AM	2	3	0	1	0	0	6
08:30 AM	6	3	0	0	0	0	9
08:35 AM	4	2	0	0	0	1	7
08:40 AM	0	0	1	3	0	0	4
08:45 AM	1	0	0	0	0	0	1
08:50 AM	1	0	0	0	0	0	1
08:55 AM	1	0	0	0	0	0	1
Total	36	11	1	6	0	2	56
		1		1		1	
Grand Total	216	55	1	75	1	6	354
Apprch %	79.7	20.3	1.3	98.7	14.3	85.7	
Total %	61	15.5	0.3	21.2	0.3	1.7	

	Middl	e School W I	Dwy	Mid	dle School	Lot	Н	igh School L	ot	
		From North	-		From South			From West		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fron	n 07:00 AM to (08:55 AM - P	eak 1 of 1							
Peak Hour for Entire Inte	rsection Begins	s at 07:05 AN	Λ							
07:05 AM	5	9	14	0	0	0	0	0	0	14
07:10 AM	6	12	18	0	0	0	1	1	2	20
07:15 AM	2	9	11	0	0	0	0	1	1	12
07:20 AM	6	6	12	0	0	0	0	1	1	13
07:25 AM	9	1	10	0	0	0	0	0	0	10
07:30 AM	22	1	23	0	3	3	0	0	0	26
07:35 AM	19	0	19	0	4	4	0	0	0	23
07:40 AM	24	1	25	0	5	5	0	1	1	31
07:45 AM	32	0	32	0	19	19	0	0	0	51
07:50 AM	30	0	30	0	27	27	0	0	0	57
07:55 AM	23	0	23	0	11	11	0	0	0	34
08:00 AM	8	0	8	0	2	2	0	0	0	10
Total Volume	186	39	225	0	71	71	1	4	5	301
% App. Total	82.7	17.3		0	100		20	80		
PHF	484	271	586	000	219	219	083	333	208	440



Peak Hour Analysis From 07:00 AM to 08:55 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

Peak Hour for Each Appl	<u>oach Begins a</u>	at:							
	07:05 AM			07:30 AM			07:00 AM		
+0 mins.	5	9	14	0	3	3	0	0	0
+5 mins.	6	12	18	0	4	4	0	0	0
+10 mins.	2	9	11	0	5	5	1	1	2
+15 mins.	6	6	12	0	19	19	0	1	1
+20 mins.	9	1	10	0	27	27	0	1	1
+25 mins.	22	1	23	0	11	11	0	0	0
+30 mins.	19	0	19	0	2	2	0	0	0
+35 mins.	24	1	25	0	0	0	0	0	0
+40 mins.	32	0	32	0	0	0	0	1	1
+45 mins.	30	0	30	0	0	0	0	0	0
+50 mins.	23	0	23	0	0	0	0	0	0
+55 mins.	8	0	8	0	1	1	0	0	0
Total Volume	186	39	225	0	72	72	1	4	5
% App. Total	82.7	17.3		0	100		20	80	
PHF	.484	.271	.586	.000	.222	.222	.083	.333	.208



		Gro	ups Printed- Trucks				
	Middle School W	Dwy	Middle School L	_ot	High School L	ot	
	From North		From South		From West		
Start Time	Thru	Right	Left	Thru	Left	Right	Int. Total
07:00 AM	0	0	0	0	0	0	0
07:05 AM	0	0	0	0	0	0	0
07:10 AM	0	0	0	0	0	1	1
07:15 AM	0	0	0	0	0	0	0
07:20 AM	0	0	0	0	0	0	0
07:25 AM	0	0	0	0	0	0	0
07:30 AM	1	0	0	0	0	0	1
07:35 AM	1	0	0	0	0	0	1
07:40 AM	0	0	0	0	0	0	0
07:45 AM	5	0	0	0	0	0	5
07:50 AM	4	0	0	0	0	0	4
07:55 AM	0	0	0	0	0	0	0
Total	11	0	0	0	0	1	12
				1		1	
08:00 AM	0	0	0	0	0	0	0
08:05 AM	0	0	0	0	0	0	0
08:10 AM	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0
08:20 AM	0	0	0	0	0	0	0
08:25 AM	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0
08:35 AM	0	0	0	0	0	0	0
08:40 AM	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0
08:50 AM	0	0	0	0	0	0	0
08:55 AM	0	0	0	0	0	0	0
Total	0	0	0	0	0	0	0
		1		1		1	
Grand Total	11	0	0	0	0	1	12
Apprch %	100	0	0	0	0	100	
Total %	91.7	0	0	0	0	8.3	

	Midd	le School W	Dwy	N	liddle School	Lot		High School	Lot	
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From	n 07:00 AM to	08:55 AM - F	Peak 1 of 1					<u>J</u>		
Peak Hour for Entire Inte	rsection Begin	s at 07:00 Al	M							
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:05 AM	0	0	0	0	0	0	0	0	0	0
07:10 AM	0	0	0	0	0	0	0	1	1	1
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:20 AM	0	0	0	0	0	0	0	0	0	0
07:25 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	1	0	1	0	0	0	0	0	0	1
07:35 AM	1	0	1	0	0	0	0	0	0	1
07:40 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	5	0	5	0	0	0	0	0	0	5
07:50 AM	4	0	4	0	0	0	0	0	0	4
07:55 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	11	0	11	0	0	0	0	1	1	12
% App. Total	100	0		0	0		0	100		
PHE	183	000	183	000	000	000	000	083	083	200



Peak Hour Analysis From 07:00 AM to 08:55 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

Peak Hour for Each Appr	<u>oach Begins a</u>	at:							
	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	0	0	0	0	0	0	0	0	0
+5 mins.	0	0	0	0	0	0	0	0	0
+10 mins.	0	0	0	0	0	0	0	1	1
+15 mins.	0	0	0	0	0	0	0	0	0
+20 mins.	0	0	0	0	0	0	0	0	0
+25 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	1	0	1	0	0	0	0	0	0
+35 mins.	1	0	1	0	0	0	0	0	0
+40 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	5	0	5	0	0	0	0	0	0
+50 mins.	4	0	4	0	0	0	0	0	0
+55 mins.	0	0	0	0	0	0	0	0	0
Total Volume	11	0	11	0	0	0	0	1	1
<u> </u>	100	0		0	0		0	100	
PHF	.183	.000	.183	.000	.000	.000	.000	.083	.083



Groups Printed- Bikes Peds												
	Middle	School W [Dwy	Middl	e School L	ot	Hig	jh School Lo	ot			
	Fr	rom North		Fre	om South		F	rom West				
Start Time	Thru	Right	Peds	Left	Thru	Peds	Left	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
07:05 AM	0	0	0	0	0	1	0	0	1	2	0	2
07:10 AM	0	0	0	0	0	2	0	0	0	2	0	2
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
07:20 AM	0	0	0	0	0	0	0	0	0	0	0	0
07:25 AM	0	0	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
07:35 AM	0	0	0	0	0	1	0	0	2	3	0	3
07:40 AM	0	0	0	0	0	1	0	0	0	1	0	1
07:45 AM	0	0	0	0	0	0	0	0	1	1	0	1
07:50 AM	0	0	0	0	0	0	0	0	1	1	0	1
07:55 AM	0	0	1	0	0	0	0	0	0	1	0	1
Total	0	0	1	0	0	5	0	0	5	11	0	11
1			1			1				I		
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:05 AM	0	0	0	0	0	0	0	0	1	1	0	1
08:10 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	17	17	0	17
08:20 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:25 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:35 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:40 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:50 AM	0	0	0	0	0	0	0	0	18	18	0	18
08:55 AM	0	0	0	0	0	0	0	0	19	19	0	19
Total	0	0	0	0	0	0	0	0	55	55	0	55
One of Tatal	0	0		0	0	-	0	0	00		0	
	U	0	1	U	0	5	0	0	60	66	0	66
Appron % Total %	U	U		U	U		0	0		100	0	

	Midd	le School W	Dwy	Middle School Lot				_ot		
		From North			From South	1		From West		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From	n 07:00 AM to	08:55 ÅM - P	Peak 1 of 1					-		
Peak Hour for Entire Inte	rsection Begin	s at 07:00 AM	N							
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:05 AM	0	0	0	0	0	0	0	0	0	0
07:10 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:20 AM	0	0	0	0	0	0	0	0	0	0
07:25 AM	0	0	0	0	0	0	0	0	0	0
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:35 AM	0	0	0	0	0	0	0	0	0	0
07:40 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0
07:50 AM	0	0	0	0	0	0	0	0	0	0
07:55 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHE	000	000	000	000	000	000	000	000	000	000



Peak Hour Analysis From 07:00 AM to 08:55 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

Peak Hour for Each Appr	<u>oach Begins a</u>	t:							
	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	0	0	0	0	0	0	0	0	0
+5 mins.	0	0	0	0	0	0	0	0	0
+10 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+20 mins.	0	0	0	0	0	0	0	0	0
+25 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+35 mins.	0	0	0	0	0	0	0	0	0
+40 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
+50 mins.	0	0	0	0	0	0	0	0	0
+55 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0
<u>% App. Total</u>	0	0		0	0		0	0	
PHF	.000	.000	.000	.000	.000	.000	.000	.000	.000



	Middle School V	V Dwy	Middle School	Lot	High School	Lot	
	From Nort	h Í	From South		From West		
Start Time	Thru	Right	Left	Thru	Left	Right	Int. Total
02:00 PM	8	5	0	0	0	0	13
02:05 PM	4	0	0	0	0	0	4
02:10 PM	11	0	0	7	10	0	28
02:15 PM	6	0	0	1	0	1	8
02:20 PM	8	6	0	0	1	0	15
02:25 PM	11	1	1	0	0	0	13
02:30 PM	4	2	0	4	0	1	11
02:35 PM	6	2	0	3	3	0	14
02:40 PM	6	0	1	1	0	0	8
02:45 PM	1	0	2	1	0	0	4
02:50 PM	0	1	0	3	0	0	4
02:55 PM	0	0	0	3	0	1	4
Total	65	17	4	23	14	3	126
03:00 PM	2	0	1	1	2	0	6
03:05 PM	3	1	0 0	2	2	Õ	8
03:10 PM	1	1	0	1	0	0	3
03:15 PM	4	1	0	1	0	0	6
03:20 PM	3	2	0	1	0	0	6
03:25 PM	7	3	0	2	0	0	12
03:30 PM	8	0	0	1	0	2	11
03:35 PM	5	2	0	2	0	0	9
03:40 PM	3	1	0	1	0	0	5
03:45 PM	4	1	0	3	0	0	8
03:50 PM	3	1	1	0	0	1	6
03:55 PM	6	5	0	0	0	0	11
Total	49	18	2	15	4	3	91
Grand Total	114	35	6	38	18	6	217
Apprch %	76.5	23.5	13.6	86.4	75	25	
Total %	52.5	16.1	2.8	17.5	8.3	2.8	
Cars	101	34	6	38	18	6	203
% Cars	88.6	97.1	100	100	100	100	93.5
Trucks	13	1	0	0	0	0	14
% Trucks	11.4	2.9	0	0	0	0	6.5

	Midc	lle School W From North	Dwy	N	liddle School From South	Lot	High School Lot From West			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fron	n 02:00 PM to	03:55 PM - F	Peak 1 of 1							
Peak Hour for Entire Inte	rsection Begir	is at 02:00 Pl	M							
02:00 PM	8	5	13	0	0	0	0	0	0	13
02:05 PM	4	0	4	0	0	0	0	0	0	4
02:10 PM	11	0	11	0	7	7	10	0	10	28
02:15 PM	6	0	6	0	1	1	0	1	1	8
02:20 PM	8	6	14	0	0	0	1	0	1	15
02:25 PM	11	1	12	1	0	1	0	0	0	13
02:30 PM	4	2	6	0	4	4	0	1	1	11
02:35 PM	6	2	8	0	3	3	3	0	3	14
02:40 PM	6	0	6	1	1	2	0	0	0	8
02:45 PM	1	0	1	2	1	3	0	0	0	4
02:50 PM	0	1	1	0	3	3	0	0	0	4
02:55 PM	0	0	0	0	3	3	0	1	1	4
Total Volume	65	17	82	4	23	27	14	3	17	126
% App. Total	79.3	20.7		14.8	85.2		82.4	17.6		
PHF	.492	.236	.488	.167	.274	.321	.117	.250	.142	.375
Cars	53	17	70	4	23	27	14	3	17	114
% Cars	81.5	100	85.4	100	100	100	100	100	100	90.5
Trucks	12	0	12	0	0	0	0	0	0	12
% Trucks	18.5	0	14.6	0	0	0	0	0	0	9.5



Peak Hour Analysis From 02:00 PM to 03:55 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

Peak Hour for Each Appl	<u>oach Begins a</u>	at:							
	02:00 PM			02:10 PM			02:10 PM		
+0 mins.	8	5	13	0	7	7	10	0	10
+5 mins.	4	0	4	0	1	1	0	1	1
+10 mins.	11	0	11	0	0	0	1	0	1
+15 mins.	6	0	6	1	0	1	0	0	0
+20 mins.	8	6	14	0	4	4	0	1	1
+25 mins.	11	1	12	0	3	3	3	0	3
+30 mins.	4	2	6	1	1	2	0	0	0
+35 mins.	6	2	8	2	1	3	0	0	0
+40 mins.	6	0	6	0	3	3	0	0	0
+45 mins.	1	0	1	0	3	3	0	1	1
+50 mins.	0	1	1	1	1	2	2	0	2
+55 mins.	0	0	0	0	2	2	2	0	2
Total Volume	65	17	82	5	26	31	18	3	21
<u> </u>	79.3	20.7		16.1	83.9		85.7	14.3	
PHF	.492	.236	.488	.208	.310	.369	.150	.250	.175
Cars	53	17	70	5	26	31	18	3	21
% Cars	81.5	100	85.4	100	100	100	100	100	100
Trucks	12	0	12	0	0	0	0	0	0
% Trucks	18.5	0	14.6	0	0	0	0	0	0



		G	roups Printed- Cars				
	Middle School V	V Dwy	Middle School	Lot	High School L	.ot	
	From North	า 📃	From South		From West		
Start Time	Thru	Right	Left	Thru	Left	Right	Int. Total
02:00 PM	8	5	0	0	0	0	13
02:05 PM	4	0	0	0	0	0	4
02:10 PM	10	0	0	7	10	0	27
02:15 PM	6	0	0	1	0	1	8
02:20 PM	8	6	0	0	1	0	15
02:25 PM	7	1	1	0	0	0	9
02:30 PM	2	2	0	4	0	1	9
02:35 PM	2	2	0	3	3	0	10
02:40 PM	6	0	1	1	0	0	8
02:45 PM	0	0	2	1	0	0	3
02:50 PM	0	1	0	3	0	0	4
02:55 PM	0	0	0	3	0	1	4
Total	53	17	4	23	14	3	114
03:00 PM	1	0	1	1	2	0	5
03:05 PM	3	1	0	2	2	0	8
03:10 PM	1	1	0	1	0	0	3
03:15 PM	4	1	0	1	0	0	6
03:20 PM	3	2	0	1	0	0	6
03:25 PM	7	3	0	2	0	0	12
03:30 PM	8	0	0	1	0	2	11
03:35 PM	5	2	0	2	0	0	9
03:40 PM	3	1	0	1	0	0	5
03:45 PM	4	1	0	3	0	0	8
03:50 PM	3	1	1	0	0	1	6
03:55 PM	6	4	0	0	0	0	10
Total	48	17	2	15	4	3	89
Grand Total	101	34	6	38	18	6	203
Apprch %	74.8	25.2	13.6	86.4	75	25	
Total %	49.8	16.7	3	18.7	8.9	3	

	Midd	le School W	Dwy	N	iddle School	Lot	ŀ	High School L	ot	
		From North			From South	1		From West		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis Fron	n 02:00 PM to	03:55 PM - P	Peak 1 of 1					-		
Peak Hour for Entire Inte	rsection Begin	s at 02:00 PM	M							
02:00 PM	8	5	13	0	0	0	0	0	0	13
02:05 PM	4	0	4	0	0	0	0	0	0	4
02:10 PM	10	0	10	0	7	7	10	0	10	27
02:15 PM	6	0	6	0	1	1	0	1	1	8
02:20 PM	8	6	14	0	0	0	1	0	1	15
02:25 PM	7	1	8	1	0	1	0	0	0	9
02:30 PM	2	2	4	0	4	4	0	1	1	9
02:35 PM	2	2	4	0	3	3	3	0	3	10
02:40 PM	6	0	6	1	1	2	0	0	0	8
02:45 PM	0	0	0	2	1	3	0	0	0	3
02:50 PM	0	1	1	0	3	3	0	0	0	4
02:55 PM	0	0	0	0	3	3	0	1	1	4
Total Volume	53	17	70	4	23	27	14	3	17	114
% App. Total	75.7	24.3		14.8	85.2		82.4	17.6		
PHF	.442	.236	.417	.167	.274	.321	.117	.250	.142	.352



Peak Hour Analysis From 02:00 PM to 03:55 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

Peak Hour for Each Appl	<u>oach Begins a</u>	t:							
	02:00 PM			02:10 PM			02:10 PM		
+0 mins.	8	5	13	0	7	7	10	0	10
+5 mins.	4	0	4	0	1	1	0	1	1
+10 mins.	10	0	10	0	0	0	1	0	1
+15 mins.	6	0	6	1	0	1	0	0	0
+20 mins.	8	6	14	0	4	4	0	1	1
+25 mins.	7	1	8	0	3	3	3	0	3
+30 mins.	2	2	4	1	1	2	0	0	0
+35 mins.	2	2	4	2	1	3	0	0	0
+40 mins.	6	0	6	0	3	3	0	0	0
+45 mins.	0	0	0	0	3	3	0	1	1
+50 mins.	0	1	1	1	1	2	2	0	2
+55 mins.	0	0	0	0	2	2	2	0	2
Total Volume	53	17	70	5	26	31	18	3	21
<u> </u>	75.7	24.3		16.1	83.9		85.7	14.3	
PHF	.442	.236	.417	.208	.310	.369	.150	.250	.175



		Gro	ups Printed- Trucks				
	Middle School W	Dwy	Middle School I	_ot	High School L	ot	
	From North		From South		From West		
Start Time	Thru	Right	Left	Thru	Left	Right	Int. Total
02:00 PM	0	0	0	0	0	0	0
02:05 PM	0	0	0	0	0	0	0
02:10 PM	1	0	0	0	0	0	1
02:15 PM	0	0	0	0	0	0	0
02:20 PM	0	0	0	0	0	0	0
02:25 PM	4	0	0	0	0	0	4
02:30 PM	2	0	0	0	0	0	2
02:35 PM	4	0	0	0	0	0	4
02:40 PM	0	0	0	0	0	0	0
02:45 PM	1	0	0	0	0	0	1
02:50 PM	0	0	0	0	0	0	0
02:55 PM	0	0	0	0	0	0	0
Total	12	0	0	0	0	0	12
				1		1	
03:00 PM	1	0	0	0	0	0	1
03:05 PM	0	0	0	0	0	0	0
03:10 PM	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0
03:20 PM	0	0	0	0	0	0	0
03:25 PM	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0
03:35 PM	0	0	0	0	0	0	0
03:40 PM	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0
03:50 PM	0	0	0	0	0	0	0
03:55 PM	0	1	0	0	0	0	1
Total	1	1	0	0	0	0	2
-		. 1		- 1	_	- 1	
Grand Total	13	1	0	0	0	0	14
Apprch %	92.9	7.1	0	0	0	0	
Total %	92.9	7.1	0	0	0	0	

	Midd	le School W	Dwy	Middle School Lot From South				High School Lot From West			
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total	
Peak Hour Analysis From	n 02:00 PM to	03:55 PM - P	Peak 1 of 1					v			
Peak Hour for Entire Inte	rsection Begin	s at 02:05 PM	M								
02:05 PM	0	0	0	0	0	0	0	0	0	0	
02:10 PM	1	0	1	0	0	0	0	0	0	1	
02:15 PM	0	0	0	0	0	0	0	0	0	0	
02:20 PM	0	0	0	0	0	0	0	0	0	0	
02:25 PM	4	0	4	0	0	0	0	0	0	4	
02:30 PM	2	0	2	0	0	0	0	0	0	2	
02:35 PM	4	0	4	0	0	0	0	0	0	4	
02:40 PM	0	0	0	0	0	0	0	0	0	0	
02:45 PM	1	0	1	0	0	0	0	0	0	1	
02:50 PM	0	0	0	0	0	0	0	0	0	0	
02:55 PM	0	0	0	0	0	0	0	0	0	0	
03:00 PM	1	0	1	0	0	0	0	0	0	1	
Total Volume	13	0	13	0	0	0	0	0	0	13	
% App. Total	100	0		0	0		0	0			
PHE	271	000	271	000	000	000	000	000	000	271	


Peak Hour Analysis From 02:00 PM to 03:55 PM - Peak 1 of 1

Peak Hour for Each Appr	<u>oach Begins a</u>	t:							
	02:05 PM			02:00 PM			02:00 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+5 mins.	1	0	1	0	0	0	0	0	0
+10 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+20 mins.	4	0	4	0	0	0	0	0	0
+25 mins.	2	0	2	0	0	0	0	0	0
+30 mins.	4	0	4	0	0	0	0	0	0
+35 mins.	0	0	0	0	0	0	0	0	0
+40 mins.	1	0	1	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
+50 mins.	0	0	0	0	0	0	0	0	0
+55 mins.	1	0	1	0	0	0	0	0	0
Total Volume	13	0	13	0	0	0	0	0	0
<u>% App. Total</u>	100	0		0	0		0	0	
PHF	.271	.000	.271	.000	.000	.000	.000	.000	.000



N/S Street : Middle School W Dwy/Middle School Lot E/W Street : High School Lot City/State : Clinton, MA Weather : Clear

	Groups Printed- Bikes Peds											
	Middle	School W D	Dwy	Midd	le School L	ot	Hig	h School Lo	ot			
	Fr	rom North		Fr	om South		F	rom West				
Start Time	Thru	Right	Peds	Left	Thru	Peds	Left	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:05 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:10 PM	0	0	1	0	0	13	0	0	0	14	0	14
02:15 PM	0	0	0	0	0	4	0	0	0	4	0	4
02:20 PM	0	0	0	0	0	1	0	0	0	1	0	1
02:25 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	2	0	0	9	11	0	11
02:35 PM	0	0	0	0	0	1	0	0	5	6	0	6
02:40 PM	0	0	0	0	0	2	0	0	3	5	0	5
02:45 PM	0	0	0	0	0	1	0	0	0	1	0	1
02:50 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:55 PM	0	0	0	0	0	1	0	0	0	1	0	1
Total	0	0	1	0	0	25	0	0	17	43	0	43
03:00 PM	0	0	0	0	0	3	0	0	0	3	0	3
03:05 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:10 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	3	0	0	0	0	0	0	3	0	3
03:20 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:25 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	2	2	0	2
03:35 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:40 PM	0	0	1	0	0	0	0	0	0	1	0	1
03:45 PM	0	0	1	0	0	0	0	0	2	3	0	3
03:50 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:55 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	5	0	0	3	0	0	4	12	0	12
Grand Total	0	0	6	0	0	28	0	0	21	55	0	55
Apprch %	0	0		0	0		0	0				
Total %										100	0	

	Midd	le School W	Dwy	Middle School Lot				_ot		
		From North	-		From South	า		From West		
Start Time	Thru	Right	App. Total	Left	Thru	App. Total	Left	Right	App. Total	Int. Total
Peak Hour Analysis From	n 02:00 PM to	03:55 PM - P	eak 1 of 1					-		
Peak Hour for Entire Inte	rsection Begin	s at 02:00 PM	N							
02:00 PM	0	0	0	0	0	0	0	0	0	0
02:05 PM	0	0	0	0	0	0	0	0	0	0
02:10 PM	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0
02:20 PM	0	0	0	0	0	0	0	0	0	0
02:25 PM	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0
02:35 PM	0	0	0	0	0	0	0	0	0	0
02:40 PM	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	0	0	0	0	0	0	0	0	0
02:50 PM	0	0	0	0	0	0	0	0	0	0
02:55 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0		
PHE	000	000	000	000	000	000	000	000	000	000



Peak Hour Analysis From 02:00 PM to 03:55 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

Peak Hour for Each Appl	<u>oach Begins a</u>	t:							
	02:00 PM			02:00 PM			02:00 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+5 mins.	0	0	0	0	0	0	0	0	0
+10 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+20 mins.	0	0	0	0	0	0	0	0	0
+25 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+35 mins.	0	0	0	0	0	0	0	0	0
+40 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
+50 mins.	0	0	0	0	0	0	0	0	0
+55 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	0	0	0	0	0	0	0	0
% App. Total	0	0		0	0		0	0	
PHF	000	000	000	.000	000	000	000	000	000



		Gro	ups Printed- Cars				
	W Boylsto	n St	Middle Sch	nool E Dwy	W Boyl	ston St	
	From Ea	st	From	South	From	West	
Start Time	Left	Thru	Left	Right	Thru	Right	Int. Total
07:00 AM	0	23	0	0	11	0	34
07:05 AM	0	41	0	0	21	0	62
07:10 AM	0	55	0	0	36	0	91
07:15 AM	0	61	0	2	29	0	92
07:20 AM	0	35	0	0	49	0	84
07:25 AM	0	15	0	3	32	0	50
07:30 AM	1	23	1	6	16	0	47
07:35 AM	0	28	1	5	18	0	52
07:40 AM	0	22	0	6	12	0	40
07:45 AM	0	42	0	0	27	0	69
07:50 AM	0	36	1	6	48	0	91
07:55 AM	0	28	3	13	27	0	71
Total	1	409	6	41	326	0	783
08:00 AM	0	19	0	7	17	0	43
08:05 AM	0	10	0	5	17	0	32
08:10 AM	0	16	0	2	10	0	28
08:15 AM	0	13	0	3	21	0	37
08:20 AM	0	17	0	2	15	0	34
08:25 AM	0	15	0	5	16	0	36
08:30 AM	0	15	0	2	15	0	32
08:35 AM	0	18	1	2	8	0	29
08:40 AM	0	17	0	1	15	0	33
08:45 AM	0	14	0	0	17	0	31
08:50 AM	0	12	0	0	19	0	31
08:55 AM	0	14	0	0	14	0	28
Total	0	180	1	29	184	0	394
Grand Total	1	589	7	70	510	0	1177
Apprch %	0.2	99.8	9.1	90.9	100	0	
Total %	0.1	50	0.6	5.9	43.3	0	
Cars	1	565	7	58	499	0	1130
% Cars	100	95.9	100	82.9	97.8	0	96
Trucks	0	24	0	12	11	0	47
% Trucks	0	4.1	0	17.1	2.2	0	4

		W Boylston S From East	it	Mic	Idle School E From South	Dwy	W Boylston St From West			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fron	n 07:00 AM to	08:55 AM - F	Peak 1 of 1							
Peak Hour for Entire Inte	rsection Begi	ns at 07:05 A	M							
07:05 AM	0	41	41	0	0	0	21	0	21	62
07:10 AM	0	55	55	0	0	0	36	0	36	91
07:15 AM	0	61	61	0	2	2	29	0	29	92
07:20 AM	0	35	35	0	0	0	49	0	49	84
07:25 AM	0	15	15	0	3	3	32	0	32	50
07:30 AM	1	23	24	1	6	7	16	0	16	47
07:35 AM	0	28	28	1	5	6	18	0	18	52
07:40 AM	0	22	22	0	6	6	12	0	12	40
07:45 AM	0	42	42	0	0	0	27	0	27	69
07:50 AM	0	36	36	1	6	7	48	0	48	91
07:55 AM	0	28	28	3	13	16	27	0	27	71
08:00 AM	0	19	19	0	7	7	17	0	17	43
Total Volume	1	405	406	6	48	54	332	0	332	792
% App. Total	0.2	99.8		11.1	88.9		100	0		
PHF	.083	.553	.555	.167	.308	.281	.565	.000	.565	.717
Cars	1	384	385	6	38	44	323	0	323	752
% Cars	100	94.8	94.8	100	79.2	81.5	97.3	0	97.3	94.9
Trucks	0	21	21	0	10	10	9	0	9	40
% Trucks	0	5.2	5.2	0	20.8	18.5	2.7	0	2.7	5.1



Peak Hour Analysis From 07:00 AM to 08:55 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

Peak Hour for Each Appr	<u>oach Begins a</u>	at:							
	07:00 AM			07:30 AM			07:05 AM		
+0 mins.	0	23	23	1	6	7	21	0	21
+5 mins.	0	41	41	1	5	6	36	0	36
+10 mins.	0	55	55	0	6	6	29	0	29
+15 mins.	0	61	61	0	0	0	49	0	49
+20 mins.	0	35	35	1	6	7	32	0	32
+25 mins.	0	15	15	3	13	16	16	0	16
+30 mins.	1	23	24	0	7	7	18	0	18
+35 mins.	0	28	28	0	5	5	12	0	12
+40 mins.	0	22	22	0	2	2	27	0	27
+45 mins.	0	42	42	0	3	3	48	0	48
+50 mins.	0	36	36	0	2	2	27	0	27
+55 mins.	0	28	28	0	5	5	17	0	17
Total Volume	1	409	410	6	60	66	332	0	332
% App. Total	0.2	99.8		9.1	90.9		100	0	
PHF	.083	.559	.560	.167	.385	.344	.565	.000	.565
Cars	1	389	390	6	49	55	323	0	323
% Cars	100	95.1	95.1	100	81.7	83.3	97.3	0	97.3
Trucks	0	20	20	0	11	11	9	0	9
% Trucks	0	4.9	4.9	0	18.3	16.7	2.7	0	2.7



			Groups Printed- Cars	S			
	W Boylston	St	Middle School	E Dwy	W Boylste	on St	
	From East		From Sou	ith	From W	est	
Start Time	Left	Thru	Left	Right	Thru	Right	Int. Total
07:00 AM	0	23	0	0	11	0	34
07:05 AM	0	40	0	0	21	0	61
07:10 AM	0	51	0	0	33	0	84
07:15 AM	0	58	0	1	27	0	86
07:20 AM	0	35	0	0	47	0	82
07:25 AM	0	15	0	3	31	0	49
07:30 AM	1	22	1	6	15	0	45
07:35 AM	0	27	1	4	18	0	50
07:40 AM	0	21	0	5	12	0	38
07:45 AM	0	35	0	0	27	0	62
07:50 AM	0	34	1	1	48	0	84
07:55 AM	0	28	3	13	27	0	71
Total	1	389	6	33	317	0	746
08:00 AM	0	18	0	5	17	0	40
08:05 AM	0	10	0	3	17	0	30
08:10 AM	0	16	0	2	10	0	28
08:15 AM	0	13	0	3	21	0	37
08:20 AM	0	17	0	2	14	0	33
08:25 AM	0	14	0	5	16	0	35
08:30 AM	0	15	0	2	15	0	32
08:35 AM	0	18	1	2	8	0	29
08:40 AM	0	15	0	1	15	0	31
08:45 AM	0	14	0	0	16	0	30
08:50 AM	0	12	0	0	19	0	31
08:55 AM	0	14	0	0	14	0	28
Total	0	176	1	25	182	0	384
Grand Total	1	565	7	58	499	0	1130
Apprch %	0.2	99.8	10.8	89.2	100	0	
Total %	0.1	50	0.6	5.1	44.2	0	

	١	N Boylston S From East	t	Middle School E Dwy W Boylston St From South From West						
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From	n 07:00 AM to	08:55 AM - F	Peak 1 of 1		-			-		
Peak Hour for Entire Inte	rsection Begir	ns at 07:05 A	M							
07:05 AM	0	40	40	0	0	0	21	0	21	61
07:10 AM	0	51	51	0	0	0	33	0	33	84
07:15 AM	0	58	58	0	1	1	27	0	27	86
07:20 AM	0	35	35	0	0	0	47	0	47	82
07:25 AM	0	15	15	0	3	3	31	0	31	49
07:30 AM	1	22	23	1	6	7	15	0	15	45
07:35 AM	0	27	27	1	4	5	18	0	18	50
07:40 AM	0	21	21	0	5	5	12	0	12	38
07:45 AM	0	35	35	0	0	0	27	0	27	62
07:50 AM	0	34	34	1	1	2	48	0	48	84
07:55 AM	0	28	28	3	13	16	27	0	27	71
08:00 AM	0	18	18	0	5	5	17	0	17	40
Total Volume	1	384	385	6	38	44	323	0	323	752
% App. Total	0.3	99.7		13.6	86.4		100	0		
PHF	083	552	553	167	244	229	561	000	561	729



Peak Hour Analysis From 07:00 AM to 08:55 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

Peak Hour for Each Appr	<u>oach Begins a</u>	at:							
	07:00 AM			07:30 AM			07:05 AM		
+0 mins.	0	23	23	1	6	7	21	0	21
+5 mins.	0	40	40	1	4	5	33	0	33
+10 mins.	0	51	51	0	5	5	27	0	27
+15 mins.	0	58	58	0	0	0	47	0	47
+20 mins.	0	35	35	1	1	2	31	0	31
+25 mins.	0	15	15	3	13	16	15	0	15
+30 mins.	1	22	23	0	5	5	18	0	18
+35 mins.	0	27	27	0	3	3	12	0	12
+40 mins.	0	21	21	0	2	2	27	0	27
+45 mins.	0	35	35	0	3	3	48	0	48
+50 mins.	0	34	34	0	2	2	27	0	27
+55 mins.	0	28	28	0	5	5	17	0	17
Total Volume	1	389	390	6	49	55	323	0	323
<u>% App. Total</u>	0.3	99.7		10.9	89.1		100	0	
PHF	.083	.559	.560	.167	.314	.286	.561	.000	.561



	W Boylston	<u></u>	Middle Sch		W Boyle	ston St	
	From East		From S	South	From \	Nest	
Start Time	l eft	Thru	Left	Right	Thru	Right	Int. Total
07:00 AM	0	0	0	0	0	0	0
07:05 AM	Õ	1	0 0	0	0	0	1
07:10 AM	0	4	0	0	3	0	7
07:15 AM	0	3	0	1	2	0	6
07:20 AM	0	0	0	0	2	0	2
07:25 AM	0	0	0	0	1	0	1
07:30 AM	0	1	0	0	1	0	2
07:35 AM	0	1	0	1	0	0	2
07:40 AM	0	1	0	1	0	0	2
07:45 AM	0	7	0	0	0	0	7
07:50 AM	0	2	0	5	0	0	7
07:55 AM	0	0	0	0	0	0	0
Total	0	20	0	8	9	0	37
		. 1		- 1			
08:00 AM	0	1	0	2	0	0	3
08:05 AM	0	0	0	2	0	0	2
08:10 AM	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0
08:20 AM	0	0	0	0	1	0	1
08:25 AM	0	1	0	0	0	0	1
08:30 AM	0	0	0	0	0	0	0
08:35 AM	0	0	0	0	0	0	0
08:40 AM	0	2	0	0	0	0	2
08:45 AM	0	0	0	0	1	0	1
08:50 AM	0	0	0	0	0	0	0
08:55 AM	0	0	0	0	0	0	0
lotal	0	4	0	4	2	0	10
	0		•	10		•	17
Grand Total	U	24	0	12	11	0	47
Apprch %	U	100	0	100	100	0	
I otal %	0	51.1	0	25.5	23.4	0	

		W Boylston S From Fast	St	Middle School E Dwy W Boylston St From South From West						
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fron	n 07:00 AM to	08:55 AM - I	Peak 1 of 1							
Peak Hour for Entire Inte	rsection Begi	ins at 07:10 A	M							
07:10 AM	0	4	4	0	0	0	3	0	3	7
07:15 AM	0	3	3	0	1	1	2	0	2	6
07:20 AM	0	0	0	0	0	0	2	0	2	2
07:25 AM	0	0	0	0	0	0	1	0	1	1
07:30 AM	0	1	1	0	0	0	1	0	1	2
07:35 AM	0	1	1	0	1	1	0	0	0	2
07:40 AM	0	1	1	0	1	1	0	0	0	2
07:45 AM	0	7	7	0	0	0	0	0	0	7
07:50 AM	0	2	2	0	5	5	0	0	0	7
07:55 AM	0	0	0	0	0	0	0	0	0	0
08:00 AM	0	1	1	0	2	2	0	0	0	3
08:05 AM	0	0	0	0	2	2	0	0	0	2
Total Volume	0	20	20	0	12	12	9	0	9	41
% App. Total	0	100		0	100		100	0		
PHF	000	238	238	000	200	200	250	000	250	488



Peak Hour Analysis From 07:00 AM to 08:55 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

Peak Hour for Each Appr	<u>oach Begins a</u>	at:							
	07:05 AM			07:10 AM			07:00 AM		
+0 mins.	0	1	1	0	0	0	0	0	0
+5 mins.	0	4	4	0	1	1	0	0	0
+10 mins.	0	3	3	0	0	0	3	0	3
+15 mins.	0	0	0	0	0	0	2	0	2
+20 mins.	0	0	0	0	0	0	2	0	2
+25 mins.	0	1	1	0	1	1	1	0	1
+30 mins.	0	1	1	0	1	1	1	0	1
+35 mins.	0	1	1	0	0	0	0	0	0
+40 mins.	0	7	7	0	5	5	0	0	0
+45 mins.	0	2	2	0	0	0	0	0	0
+50 mins.	0	0	0	0	2	2	0	0	0
+55 mins.	0	1	1	0	2	2	0	0	0
Total Volume	0	21	21	0	12	12	9	0	9
<u>% App. Total</u>	0	100		0	100		100	0	
PHF	.000	.250	.250	.000	.200	.200	.250	.000	.250



File Name	: 07690003
Site Code	: 07690003
Start Date	: 10/12/2023
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Groups Printed- Bikes Peds												
	WE	Boylston St		Middle	School E D	wy	W	Boylston St				
	Fr	om East		Fr	om South		F	rom West				
Start Time	Left	Thru	Peds	Left	Right	Peds	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
07:05 AM	0	0	0	0	0	1	0	0	0	1	0	1
07:10 AM	0	0	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
07:20 AM	0	0	0	0	0	0	0	0	0	0	0	0
07:25 AM	0	1	0	0	0	0	0	0	0	0	1	1
07:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
07:35 AM	0	0	0	0	0	0	0	0	0	0	0	0
07:40 AM	0	0	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	1	0	0	0	1	0	1
07:50 AM	0	0	0	0	0	0	0	0	0	0	0	0
07:55 AM	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	1	0	0	0	2	0	0	0	2	1	3
1			I.			1						
08:00 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:05 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:10 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:15 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:20 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:25 AM	0	0	0	0	0	1	0	0	0	1	0	1
08:30 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:35 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:40 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:45 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:50 AM	0	0	0	0	0	0	0	0	0	0	0	0
08:55 AM	0	1	0	0	0	0	0	0	0	0	1	1
Total	0	1	0	0	0	1	0	0	0	1	1	2
			. 1	_		. 1				1		
Grand Total	0	2	0	0	0	3	0	0	0	3	2	5
Apprch %	0	100		0	0		0	0				
Total %	0	100		0	0		0	0		60	40	

		W Boylston St			dle School E	E Dwy				
		From East			From South	n	From West			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From	n 07:00 AM to	08:55 AM - I	Peak 1 of 1							
Peak Hour for Entire Inte	rsection Begi	ns at 07:00 A	M							
07:00 AM	0	0	0	0	0	0	0	0	0	0
07:05 AM	0	0	0	0	0	0	0	0	0	0
07:10 AM	0	0	0	0	0	0	0	0	0	0
07:15 AM	0	0	0	0	0	0	0	0	0	0
07:20 AM	0	0	0	0	0	0	0	0	0	0
07:25 AM	0	1	1	0	0	0	0	0	0	1
07:30 AM	0	0	0	0	0	0	0	0	0	0
07:35 AM	0	0	0	0	0	0	0	0	0	0
07:40 AM	0	0	0	0	0	0	0	0	0	0
07:45 AM	0	0	0	0	0	0	0	0	0	0
07:50 AM	0	0	0	0	0	0	0	0	0	0
07:55 AM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	1	0	0	0	0	0	0	1
% App. Total	0	100		0	0		0	0		
PHF	000	083	083	000	000	000	000	000	000	083



Peak Hour Analysis From 07:00 AM to 08:55 AM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

Peak Hour for Each Appl	oach Begins a	t:							
	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	0	0	0	0	0	0	0	0	0
+5 mins.	0	0	0	0	0	0	0	0	0
+10 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+20 mins.	0	0	0	0	0	0	0	0	0
+25 mins.	0	1	1	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+35 mins.	0	0	0	0	0	0	0	0	0
+40 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	0	0	0	0	0	0	0	0
+50 mins.	0	0	0	0	0	0	0	0	0
+55 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	1	1	0	0	0	0	0	0
<u>% App. Total</u>	0	100		0	0		0	0	
PHF	.000	.083	.083	.000	.000	.000	.000	.000	.000



Groups Printed- Cars - Trucks											
	W Boylston	St	Middle Sch	iool E Dwy	W Boyl	ston St					
	From East	t	From	South	From	West					
Start Time	Left	Thru	Left	Right	Thru	Right	Int. Total				
02:00 PM	0	30	0	0	7	0	37				
02:05 PM	0	18	0	0	10	0	28				
02:10 PM	0	27	0	2	51	0	80				
02:15 PM	0	14	0	2	32	0	48				
02:20 PM	0	25	0	0	12	0	37				
02:25 PM	0	26	0	1	21	0	48				
02:30 PM	0	26	1	16	27	0	70				
02:35 PM	0	19	5	27	30	0	81				
02:40 PM	0	20	2	7	19	0	48				
02:45 PM	0	13	1	8	18	0	40				
02:50 PM	0	12	0	6	12	0	30				
02:55 PM	0	20	2	4	19	0	45				
Total	0	250	11	73	258	0	592				
03:00 PM	0	19	2	4	15	0	40				
03:05 PM	0	26	1	1	19	0	47				
03:10 PM	0	19	0	3	14	0	36				
03:15 PM	0	22	0	1	16	0	39				
03:20 PM	0	32	2	7	22	0	63				
03:25 PM	0	40	1	5	25	0	71				
03:30 PM	0	21	0	7	19	0	47				
03:35 PM	0	33	0	6	21	0	60				
03:40 PM	0	22	0	4	20	0	46				
03:45 PM	0	37	0	3	20	0	60				
03:50 PM	0	23	0	2	13	0	38				
03:55 PM	0	23	1	0	17	0	41				
Total	0	317	7	43	221	0	588				
Grand Total	0	567	18	116	479	0	1180				
Apprch %	0	100	13.4	86.6	100	0					
Total %	0	48.1	1.5	9.8	40.6	0					
Cars	0	542	16	105	465	0	1128				
% Cars	0	95.6	<u>8</u> 8.9	<u>9</u> 0.5	<u>9</u> 7.1	0	95.6				
Trucks	0	25	2	11	14	0	52				
% Trucks	0	4.4	11.1	9.5	2.9	0	4.4				

	W Boylston St From East			Mic	Idle School E From South	Dwy				
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From	n 02:00 PM to	03:55 PM - F	Peak 1 of 1		-			•		
Peak Hour for Entire Inte	rsection Begi	ns at 02:10 PI	M							
02:10 PM	0	27	27	0	2	2	51	0	51	80
02:15 PM	0	14	14	0	2	2	32	0	32	48
02:20 PM	0	25	25	0	0	0	12	0	12	37
02:25 PM	0	26	26	0	1	1	21	0	21	48
02:30 PM	0	26	26	1	16	17	27	0	27	70
02:35 PM	0	19	19	5	27	32	30	0	30	81
02:40 PM	0	20	20	2	7	9	19	0	19	48
02:45 PM	0	13	13	1	8	9	18	0	18	40
02:50 PM	0	12	12	0	6	6	12	0	12	30
02:55 PM	0	20	20	2	4	6	19	0	19	45
03:00 PM	0	19	19	2	4	6	15	0	15	40
03:05 PM	0	26	26	1	1	2	19	0	19	47
Total Volume	0	247	247	14	78	92	275	0	275	614
% App. Total	0	100		15.2	84.8		100	0		
PHF	.000	.762	.762	.233	.241	.240	.449	.000	.449	.632
Cars	0	230	230	12	67	79	264	0	264	573
% Cars	0	93.1	93.1	85.7	85.9	85.9	96.0	0	96.0	93.3
Trucks	0	17	17	2	11	13	11	0	11	41
% Trucks	0	6.9	6.9	14.3	14.1	14.1	4.0	0	4.0	6.7



Peak Hour Analysis From 02:00 PM to 03:55 PM - Peak 1 of 1

Peak Hour for Each Appr	<u>oach Begins a</u>	at:							
	03:00 PM			02:30 PM			02:10 PM		
+0 mins.	0	19	19	1	16	17	51	0	51
+5 mins.	0	26	26	5	27	32	32	0	32
+10 mins.	0	19	19	2	7	9	12	0	12
+15 mins.	0	22	22	1	8	9	21	0	21
+20 mins.	0	32	32	0	6	6	27	0	27
+25 mins.	0	40	40	2	4	6	30	0	30
+30 mins.	0	21	21	2	4	6	19	0	19
+35 mins.	0	33	33	1	1	2	18	0	18
+40 mins.	0	22	22	0	3	3	12	0	12
+45 mins.	0	37	37	0	1	1	19	0	19
+50 mins.	0	23	23	2	7	9	15	0	15
+55 mins.	0	23	23	1	5	6	19	0	19
Total Volume	0	317	317	17	89	106	275	0	275
% App. Total	0	100		16	84		100	0	
PHF	.000	.660	.660	.283	.275	.276	.449	.000	.449
Cars	0	313	313	15	78	93	264	0	264
% Cars	0	98.7	98.7	88.2	87.6	87.7	96	0	96
Trucks	0	4	4	2	11	13	11	0	11
% Trucks	0	1.3	1.3	11.8	12.4	12.3	4	0	4



		G	roups Printed- Cars				
	W Boylston S	t	Middle School E	Dwy	W Boylston S	St	
	From East		From South	n -	From West		
Start Time	Left	Thru	Left	Right	Thru	Right	Int. Total
02:00 PM	0	25	0	0	7	0	32
02:05 PM	0	18	0	0	10	0	28
02:10 PM	0	25	0	2	43	0	70
02:15 PM	0	14	0	2	31	0	47
02:20 PM	0	24	0	0	12	0	36
02:25 PM	0	21	0	1	21	0	43
02:30 PM	0	23	0	13	26	0	62
02:35 PM	0	17	4	24	30	0	75
02:40 PM	0	20	2	4	18	0	44
02:45 PM	0	11	1	7	18	0	37
02:50 PM	0	12	0	6	12	0	30
02:55 PM	0	19	2	4	19	0	44
Total	0	229	9	63	247	0	548
		1					
03:00 PM	0	18	2	3	15	0	38
03:05 PM	0	26	1	1	19	0	47
03:10 PM	0	19	0	3	13	0	35
03:15 PM	0	22	0	1	16	0	39
03:20 PM	0	32	2	7	22	0	63
03:25 PM	0	40	1	5	25	0	71
03:30 PM	0	21	0	7	19	0	47
03:35 PM	0	32	0	6	21	0	59
03:40 PM	0	22	0	4	19	0	45
03:45 PM	0	37	0	3	20	0	60
03:50 PM	0	23	0	2	13	0	38
03:55 PM	0	21	1	0	16	0	38
Total	0	313	7	42	218	0	580
• • - • •		I				- 1	
Grand Total	0	542	16	105	465	0	1128
Apprch %	0	100	13.2	86.8	100	0	
Total %	0	48	1.4	9.3	41.2	0	

	,	W Boylston St			ddle School E	Dwy				
		From East			From South	า		From West		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis Fron	n 02:00 PM to	03:55 PM - F	Peak 1 of 1							
Peak Hour for Entire Inte	rsection Begin	ns at 02:55 P	M							
02:55 PM	0	19	19	2	4	6	19	0	19	44
03:00 PM	0	18	18	2	3	5	15	0	15	38
03:05 PM	0	26	26	1	1	2	19	0	19	47
03:10 PM	0	19	19	0	3	3	13	0	13	35
03:15 PM	0	22	22	0	1	1	16	0	16	39
03:20 PM	0	32	32	2	7	9	22	0	22	63
03:25 PM	0	40	40	1	5	6	25	0	25	71
03:30 PM	0	21	21	0	7	7	19	0	19	47
03:35 PM	0	32	32	0	6	6	21	0	21	59
03:40 PM	0	22	22	0	4	4	19	0	19	45
03:45 PM	0	37	37	0	3	3	20	0	20	60
03:50 PM	0	23	23	0	2	2	13	0	13	38
Total Volume	0	311	311	8	46	54	221	0	221	586
% App. Total	0	100		14.8	85.2		100	0		
PHF	000	648	648	333	548	500	737	000	737	688



Peak Hour Analysis From 02:00 PM to 03:55 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

Peak Hour for Each Appl	<u>roach Begins a</u>	at:							
	03:00 PM			02:30 PM			02:10 PM		
+0 mins.	0	18	18	0	13	13	43	0	43
+5 mins.	0	26	26	4	24	28	31	0	31
+10 mins.	0	19	19	2	4	6	12	0	12
+15 mins.	0	22	22	1	7	8	21	0	21
+20 mins.	0	32	32	0	6	6	26	0	26
+25 mins.	0	40	40	2	4	6	30	0	30
+30 mins.	0	21	21	2	3	5	18	0	18
+35 mins.	0	32	32	1	1	2	18	0	18
+40 mins.	0	22	22	0	3	3	12	0	12
+45 mins.	0	37	37	0	1	1	19	0	19
+50 mins.	0	23	23	2	7	9	15	0	15
+55 mins.	0	21	21	1	5	6	19	0	19
Total Volume	0	313	313	15	78	93	264	0	264
<u>% App. Total</u>	0	100		16.1	83.9		100	0	
PHF	.000	.652	.652	.313	.271	.277	.512	.000	.512



		G	roups Printed- Truck	s			
	W Boylston S	St	Middle School	E Dwy	W Boylstor	n St	
	From East		From Sout	th	From We		
Start Time	Left	Thru	Left	Right	Thru	Right	Int. Total
02:00 PM	0	5	0	0	0	0	5
02:05 PM	0	0	0	0	0	0	0
02:10 PM	0	2	0	0	8	0	10
02:15 PM	0	0	0	0	1	0	1
02:20 PM	0	1	0	0	0	0	1
02:25 PM	0	5	0	0	0	0	5
02:30 PM	0	3	1	3	1	0	8
02:35 PM	0	2	1	3	0	0	6
02:40 PM	0	0	0	3	1	0	4
02:45 PM	0	2	0	1	0	0	3
02:50 PM	0	0	0	0	0	0	0
02:55 PM	0	1	0	0	0	0	1
Total	0	21	2	10	11	0	44
03:00 PM	0	1	0	1	0	0	2
03:05 PM	0	0	0	0	0	0	0
03:10 PM	0	0	0	0	1	0	1
03:15 PM	0	0	0	0	0	0	0
03:20 PM	0	0	0	0	0	0	0
03:25 PM	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0
03:35 PM	0	1	0	0	0	0	1
03:40 PM	0	0	0	0	1	0	1
03:45 PM	0	0	0	0	0	0	0
03:50 PM	0	0	0	0	0	0	0
03:55 PM	0	2	0	0	1	0	3
Total	0	4	0	1	3	0	8
				1			
Grand Total	0	25	2	11	14	0	52
Apprch %	0	100	15.4	84.6	100	0	
Total %	0	48.1	3.8	21.2	26.9	0	

		W Boylston S	St	Mic	dle School E	E Dwy				
		From East			From Sout	1		From West		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From	n 02:00 PM to	03:55 PM -	Peak 1 of 1							
Peak Hour for Entire Inte	rsection Begi	ns at 02:00 P	M							
02:00 PM	0	5	5	0	0	0	0	0	0	5
02:05 PM	0	0	0	0	0	0	0	0	0	0
02:10 PM	0	2	2	0	0	0	8	0	8	10
02:15 PM	0	0	0	0	0	0	1	0	1	1
02:20 PM	0	1	1	0	0	0	0	0	0	1
02:25 PM	0	5	5	0	0	0	0	0	0	5
02:30 PM	0	3	3	1	3	4	1	0	1	8
02:35 PM	0	2	2	1	3	4	0	0	0	6
02:40 PM	0	0	0	0	3	3	1	0	1	4
02:45 PM	0	2	2	0	1	1	0	0	0	3
02:50 PM	0	0	0	0	0	0	0	0	0	0
02:55 PM	0	1	1	0	0	0	0	0	0	1
Total Volume	0	21	21	2	10	12	11	0	11	44
% App. Total	0	100		16.7	83.3		100	0		
PHF	000	350	350	167	278	250	115	000	115	367



Peak Hour Analysis From 02:00 PM to 03:55 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

Peak Hour for Each Appl	<u>roach Begins a</u>	at:							
	02:00 PM			02:05 PM			02:00 PM		
+0 mins.	0	5	5	0	0	0	0	0	0
+5 mins.	0	0	0	0	0	0	0	0	0
+10 mins.	0	2	2	0	0	0	8	0	8
+15 mins.	0	0	0	0	0	0	1	0	1
+20 mins.	0	1	1	0	0	0	0	0	0
+25 mins.	0	5	5	1	3	4	0	0	0
+30 mins.	0	3	3	1	3	4	1	0	1
+35 mins.	0	2	2	0	3	3	0	0	0
+40 mins.	0	0	0	0	1	1	1	0	1
+45 mins.	0	2	2	0	0	0	0	0	0
+50 mins.	0	0	0	0	0	0	0	0	0
+55 mins.	0	1	1	0	1	1	0	0	0
Total Volume	0	21	21	2	11	13	11	0	11
<u>% App. Total</u>	0	100		15.4	84.6		100	0	
PHF	000	350	.350	167	306	271	115	000	115



File Name	: 07690003
Site Code	: 07690003
Start Date	: 10/12/2023
Page No	: 10

				(Groups Prin	ted- Bike	s Peds					
	W E	Boylston St		Middle School E Dwy			W	Boylston St				
	Fr	om East		Fr	om South		F	rom West				
Start Time	Left	Thru	Peds	Left	Right	Peds	Thru	Right	Peds	Exclu. Total	Inclu. Total	Int. Total
02:00 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:05 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:10 PM	0	0	0	0	0	1	0	0	0	1	0	1
02:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:20 PM	0	0	0	0	0	2	0	0	0	2	0	2
02:25 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	2	0	0	0	2	0	2
02:35 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:40 PM	0	0	0	0	0	3	0	0	0	3	0	3
02:45 PM	0	1	0	0	0	0	0	0	0	0	1	1
02:50 PM	0	0	0	0	0	0	0	0	0	0	0	0
02:55 PM	0	0	0	0	0	2	0	0	0	2	0	2
Total	0	1	0	0	0	10	0	0	0	10	1	11
03:00 PM	0	0	0	0	0	1	0	0	0	1	0	1
03:05 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:10 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:15 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:20 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:25 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:30 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:35 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:40 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:45 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:50 PM	0	0	0	0	0	0	0	0	0	0	0	0
03:55 PM	0	0	0	0	0	0	0	0	0	0	0	0
Total	0	0	0	0	0	1	0	0	0	1	0	1
I			_ 1			. 1				I		
Grand Total	0	1	0	0	0	11	0	0	0	11	1	12
Apprch %	0	100		0	0		0	0				
Total %	0	100		0	0		0	0		91.7	8.3	

	,	W Boylston S	St	Mic	Idle School E	E Dwy		St		
		From East			From South	1		From West		
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From	n 02:00 PM to	03:55 PM - I	Peak 1 of 1							
Peak Hour for Entire Inte	rsection Begin	ns at 02:00 P	M							
02:00 PM	0	0	0	0	0	0	0	0	0	0
02:05 PM	0	0	0	0	0	0	0	0	0	0
02:10 PM	0	0	0	0	0	0	0	0	0	0
02:15 PM	0	0	0	0	0	0	0	0	0	0
02:20 PM	0	0	0	0	0	0	0	0	0	0
02:25 PM	0	0	0	0	0	0	0	0	0	0
02:30 PM	0	0	0	0	0	0	0	0	0	0
02:35 PM	0	0	0	0	0	0	0	0	0	0
02:40 PM	0	0	0	0	0	0	0	0	0	0
02:45 PM	0	1	1	0	0	0	0	0	0	1
02:50 PM	0	0	0	0	0	0	0	0	0	0
02:55 PM	0	0	0	0	0	0	0	0	0	0
Total Volume	0	1	1	0	0	0	0	0	0	1
% App. Total	0	100		0	0		0	0		
PHF	000	083	083	000	000	000	000	000	000	083



Peak Hour Analysis From 02:00 PM to 03:55 PM - Peak 1 of 1 Peak Hour for Each Approach Begins at:

Peak Hour for Each Appr	<u>oach Begins a</u>	at:							
	02:00 PM			02:00 PM			02:00 PM		
+0 mins.	0	0	0	0	0	0	0	0	0
+5 mins.	0	0	0	0	0	0	0	0	0
+10 mins.	0	0	0	0	0	0	0	0	0
+15 mins.	0	0	0	0	0	0	0	0	0
+20 mins.	0	0	0	0	0	0	0	0	0
+25 mins.	0	0	0	0	0	0	0	0	0
+30 mins.	0	0	0	0	0	0	0	0	0
+35 mins.	0	0	0	0	0	0	0	0	0
+40 mins.	0	0	0	0	0	0	0	0	0
+45 mins.	0	1	1	0	0	0	0	0	0
+50 mins.	0	0	0	0	0	0	0	0	0
+55 mins.	0	0	0	0	0	0	0	0	0
Total Volume	0	1	1	0	0	0	0	0	0
<u>% App. Total</u>	0	100		0	0		0	0	
PHF	000	083	083	.000	000	000	000	000	000



						Cars			Total	
						Parked in	Estimated		Parent	Buses in
	Cars in Drop	Buses in Drop	Cars in Bus	Cars Parked in	Cars Parked in	Parents	Cars Queue		Cars in	Drop Off
Time	Off Queue	Off Queue	Drop Off Area	Main Lot	Side Lot	Lot	on Street	Time	Queue	Queue
7:30 AM	2	C	0	27				7:30 AM	2	0
7:31 AM	1	1	. 1	29				7:31 AM	2	1
7:32 AM	0	C	1	30	9			7:32 AM	1	0
7:33 AM	0	C	2	32				7:33 AM	2	0
7:34 AM	0	1	0	35				7:34 AM	0	1
7:35 AM	3	1	. 0	35				7:35 AM	3	1
7:36 AM	1	1	. 0	36				7:36 AM	1	1
7:37 AM	2	C	1	40				7:37 AM	3	0
7:38 AM	1	C	3	40		2		7:38 AM	4	0
7:39 AM	0	C	0	43		3		7:39 AM	0	0
7:40 AM	0	1	. 0	46		3		7:40 AM	0	1
7:41 AM	0	C	0	48		4		7:41 AM	0	0
7:42 AM	1	C	0	49		4		7:42 AM	1	0
7:43 AM	1	C	0	53	12	3		7:43 AM	1	0
7:44 AM	3	C	0	53		3		7:44 AM	3	0
7:45 AM	4	C	0	54		3		7:45 AM	4	0
7:46 AM	2	C	0			3		7:46 AM	2	0
7:47 AM	5	2	0			3		7:47 AM	5	2
7:48 AM	8	2	0			4		7:48 AM	8	2
7:49 AM	15	2	0			5		7:49 AM	15	2
7:50 AM	10	3	0			5		7:50 AM	10	3
7:51 AM	7	5	0			4		7:51 AM	7	5
7:52 AM	10	3	0			3		7:52 AM	10	3
7:53 AM	12	1	0			5		7:53 AM	12	1
7:54 AM	15	1	. 0			4	5	7:54 AM	20	1
7:55 AM	12	C	3			3	3	7:55 AM	18	0
7:56 AM	9	C	4			3		7:56 AM	13	0
7:57 AM	0	C	4			3		7:57 AM	4	0
7:58 AM	1	C	4			3		7:58 AM	5	0
7:59 AM	0	C	0			3		7:59 AM	0	0
8:00 AM	0	C	3			3		8:00 AM	3	0
8:01 AM	0	C	2			3		8:01 AM	2	0
8:02 AM	0	C	1			3		8:02 AM	1	0
8:03 AM	0	C	0	65	13	3		8:03 AM	0	0
8.22 014				72	12	Л				

						Cars				
						Parked in			Cars in	Buses in
	Cars in Pick Up	Buses in Pick	Cars in Bus	Cars Parked in	Cars Parked in	Parents	Cars Parked		Pick Up	Pick Up
Time	Queue	Up Queue	Pick Up Area	Main Lot	Side Lot	Lot	at Pool	Time	Queue	Queue
2:09 PM	3	0		69	12	6		2:09 PM	3	0
2:10 PM	5	0				6		2:10 PM	5	0
2:11 PM	7	0				6		2:11 PM	7	0
2:12 PM	8	1				6		2:12 PM	8	1
2:13 PM	9	1				6		2:13 PM	9	1
2:14 PM	12	1				5		2:14 PM	12	1
2:15 PM	14	1				5		2:15 PM	14	1
2:16 PM	17	1				5		2:16 PM	17	1
2:17 PM	17	1				5		2:17 PM	17	1
2:18 PM	20	1				5		2:18 PM	20	1
2:19 PM	21	1				5		2:19 PM	21	1
2:20 PM	22	1				5	4	2:20 PM	22	1
2:21 PM	24	2	1			4	4	2:21 PM	24	2
2:22 PM	25	2	1			4	4	2:22 PM	25	2
2:23 PM	25	2	1			4	4	2:23 PM	25	2
2:24 PM	25	2	1			4	4	2:24 PM	25	2
2:25 PM	26	3	1			4	4	2:25 PM	26	3
2:26 PM	26	3	1			5	4	2:26 PM	26	3
2:27 PM	30	3	1			5	4	2:27 PM	30	3
2:28 PM	30	4	1			5	4	2:28 PM	30	4
2:29 PM	30	5	1			5	4	2:29 PM	30	5
2:30 PM	31	6	1			5	7	2:30 PM	31	6
2:31 PM	31	7	1			5	7	2:31 PM	31	7
2:32 PM	31	7	1			5	7	2:32 PM	31	7
2:33 PM	31	6	1			5	7	2:33 PM	31	6
2:34 PM	32	6	1			5	7	2:34 PM	32	6
2:35 PM	27	2				5		2:35 PM	27	2
2:36 PM	19	3				3		2:36 PM	19	3
2:37 PM	9	3				2		2:37 PM	9	3
2:38 PM	9	4				2		2:38 PM	9	4
2:39 PM	5	4				2		2:39 PM	5	4
2:40 PM	0	0				2		2:40 PM	0	0
2:41 PM	0	0				2		2:41 PM	0	0
2.42 PM	0	0				3		2.42 PM	0	0
2:12 PM	0	0				2		2:12 PM	0	0
2.43 F M	0	0				2		2:43 F M	0	0
2.44 PM	Ũ	0				-		2:44 PM	0	0
2.45 T M		1						2:45 F M	0	1
2.40 FIVI		1		17	17			2.40 F 1VI	0	1 1
2.77/FIVI		1		47	12			2.77 FIVI	0	- -
2.40 FIVI		0						2.40 FIVI	0	U
2.49 PIVI										
2.50 PIVI										

Intersection

Movement EBT EBR WBL WBT NBR Lane Configurations Image: Configurations Ima	Int Delay, s/veh	3.8						
Lane Configurations Image: Configuration in the image: Configuration	Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Traffic Vol, veh/h 304 0 0 260 32 200 Future Vol, veh/h 304 0 0 260 32 200 Conflicting Peds, #/hr 0 0 0 0 0 0 Sign Control Free Free Free Stop Stop RT Channelized - None - None Storage Length - - 0 - Veh in Median Storage, # 0 - 0 0 Grade, % 0 - - 0 - Peak Hour Factor 100 100 100 100 100 Heavy Vehicles, % 4 4 4 4 4	Lane Configurations	1			1	Y		
Future Vol, veh/h 304 0 0 260 32 200 Conflicting Peds, #/hr 0 0 0 0 0 0 Sign Control Free Free Free Stop Stop RT Channelized - None - None Storage Length - - 0 - Veh in Median Storage, # 0 - 0 0 Grade, % 0 - 0 0 Peak Hour Factor 100 100 100 100 Heavy Vehicles, % 4 4 4 4	Traffic Vol, veh/h	304	0	0	260	32	200	
Conflicting Peds, #/hr 0	Future Vol, veh/h	304	0	0	260	32	200	
Sign ControlFreeFreeFreeStepStopRT Channelized-None-NoneStorage Length0Veh in Median Storage, #0Grade, %0-00Peak Hour Factor100100100100Heavy Vehicles, %4444	Conflicting Peds, #/hr	0	0	0	0	0	0	
RT Channelized - None - None Storage Length - - 0 - Veh in Median Storage, # 0 - 0 0 Grade, % 0 - 0 0 Peak Hour Factor 100 100 100 100 Heavy Vehicles, % 4 4 4 4	Sign Control	Free	Free	Free	Free	Stop	Stop	
Storage Length - - - 0 - Veh in Median Storage, # 0 - - 0 0 - Grade, % 0 - - 0 0 - Peak Hour Factor 100 100 100 100 100 Heavy Vehicles, % 4 4 4 4 4	RT Channelized	-	None	-	None	-	None	
Veh in Median Storage, # 0 - 0 0 - Grade, % 0 - - 0 0 - Peak Hour Factor 100 100 100 100 100 100 Heavy Vehicles, % 4 4 4 4 4 4	Storage Length	-	-	-	-	0	-	
Grade, % 0 - 0 0 - Peak Hour Factor 100 100 100 100 100 Heavy Vehicles, % 4 4 4 4 4	Veh in Median Storage	,# 0	-	-	0	0	-	
Peak Hour Factor 100 100 100 100 100 Heavy Vehicles, % 4 4 4 4 4 4	Grade, %	0	-	-	0	0	-	
Heavy Vehicles, % 4 4 4 4 4 4	Peak Hour Factor	100	100	100	100	100	100	
	Heavy Vehicles, %	4	4	4	4	4	4	
Mvmt Flow 304 0 0 260 32 200	Mvmt Flow	304	0	0	260	32	200	

Major/Minor	Major1		Major?		Minor1	
			viajuiz			
Conflicting Flow All	0	-	-	-	564	304
Stage 1	-		-	-	304	-
Stage 2	-	-	-	-	260	-
Critical Hdwy	-	-	-	-	6.44	6.24
Critical Hdwy Stg 1	-	-	-	-	5.44	-
Critical Hdwy Stg 2	-	-	-	-	5.44	-
Follow-up Hdwy	-		-	-	3.536	3.336
Pot Cap-1 Maneuver	-	0	0	-	483	731
Stage 1	-	0	0	-	744	-
Stage 2	-	0	0	-	779	-
Platoon blocked %	-		•	-		
Mov Cap-1 Maneuver	-		_	-	483	731
Mov Cap-2 Maneuver		. <u>-</u>	-	_	483	-
Stare 1	_	_	_	_	744	_
Stage 2					770	
Stage 2		-	-	-	119	-
Approach	EB		WB		NB	
HCM Control Delay, s	; 0		0		13	
HCM LOS					B	
					_	
Minor Lane/Major Mv	mt	NBLn1	EBT	WBT		
Capacity (veh/h)		683	-	-		
HCM Lane V/C Ratio		0.34	-	-		
HCM Control Delay (s	5)	13	-	-		
HCM Lane LOS	,	В	-	-		
HCM 95th %tile Q(vel	n)	1.5	-	-		

1.8

Intersection

Int Delay, s/veh

Movement EBL EBL EBR WBL WBT WBR NBL NBT NBR SBL SBT SBF SBF Lane Configurations
Lane Configurations Image: Configuration in the image: Configuratine in the image: Configuration in the image: Configuration in th
Traffic Vol, veh/h 0 272 12 56 224 4 12 0 32 0 4 88 Future Vol, veh/h 0 272 12 56 224 4 12 0 32 0 4 88 Conflicting Peds, #/hr 0
Future Vol, veh/h 0 272 12 56 224 4 12 0 32 0 4 88 Conflicting Peds, #/hr 0
Conflicting Peds, #/hr00 <th< td=""></th<>
Sign ControlFreeFreeFreeFreeFreeFreeStopStopStopStopStopRT ChannelizedNoneNoneNone
RT Channelized None None None None
Storage Length
Veh in Median Storage, # - 0 0 0 0 0
Grade, % - 0 0 0 0
Peak Hour Factor 100 100 100 100 100 100 100 100 100 10
Heavy Vehicles, % 4 4 4 4 4 4 4 4 4 4 4 4 4
Mvmt Flow 0 272 12 56 224 4 12 0 32 0 4 8

Major/Minor	Major1		Major2		Minor1			Minor2			
Conflicting Flow All	228	0	0 284	0	0 622	618	278	632	622	226	
Stage 1	-	-		-	- 278	278	-	338	338	-	
Stage 2	-	-		-	- 344	340	-	294	284	-	
Critical Hdwy	4.14	-	- 4.14	-	- 7.14	6.54	6.24	7.14	6.54	6.24	
Critical Hdwy Stg 1	-	-		-	- 6.14	5.54	-	6.14	5.54	-	
Critical Hdwy Stg 2	-	-		-	- 6.14	5.54	-	6.14	5.54	-	
Follow-up Hdwy	2.236	-	- 2.236	-	- 3.536	4.036	3.336	3.536	4.036	3.336	
Pot Cap-1 Maneuver	1328	-	- 1267	-	- 396	402	756	390	400	808	
Stage 1	-	-		-	- 724	677	-	672	637	-	
Stage 2	-	-		-	- 667	636	-	710	673	-	
Platoon blocked, %		-	-	-	-						
Mov Cap-1 Maneuver	1328	-	- 1267	-	- 374	381	756	359	380	808	
Mov Cap-2 Maneuver	-	-		-	- 374	381	-	359	380	-	
Stage 1	-	-		-	- 724	677	-	672	605	-	
Stage 2	-	-		-	- 623	604	-	680	673	-	
Approach	EB		WB		NB			SB			

HCM Control Delay, s	0	1.6	11.6	11.3	
HCM LOS			В	В	

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	SBLn1	
Capacity (veh/h)	591	1328	-	-	1267	-	-	587	
HCM Lane V/C Ratio	0.074	-	-	-	0.044	-	-	0.02	
HCM Control Delay (s)	11.6	0	-	-	8	0	-	11.3	
HCM Lane LOS	В	А	-	-	А	А	-	В	
HCM 95th %tile Q(veh)	0.2	0	-	-	0.1	-	-	0.1	

Intersection

Int Delay, s/veh	1.5						
Movement	EBT	EBR	WBL	WBT	NBL	NBR	
Lane Configurations	1			1	Y		
Traffic Vol, veh/h	258	0	0	250	11	73	
Future Vol, veh/h	258	0	0	250	11	73	
Conflicting Peds, #/hr	0	0	0	0	0	0	
Sign Control	Free	Free	Free	Free	Stop	Stop	
RT Channelized	-	None	-	None	-	None	
Storage Length	-	-	-	-	0	-	
Veh in Median Storage	,# 0	-	-	0	0	-	
Grade, %	0	-	-	0	0	-	
Peak Hour Factor	100	100	100	100	100	100	
Heavy Vehicles, %	4	4	4	4	4	4	
Mvmt Flow	258	0	0	250	11	73	

Major/Minor	Major1	Ν	Inior?		Minor1	
	wajor i	I	najorz			
Conflicting Flow All	0	-	-	-	508	258
Stage 1	-	-	-	-	258	-
Stage 2	-	-	-	-	250	-
Critical Hdwy	-	-	-	-	6.44	6.24
Critical Hdwy Stg 1	-	-	-	-	5.44	-
Critical Hdwy Stg 2	-	-	-	-	5.44	-
Follow-up Hdwy	-	-	-	-	3.536	3.336
Pot Cap-1 Maneuver	-	0	0	-	521	776
Stage 1	-	0	0	-	780	-
Stage 2	-	0	0	-	787	-
Platoon blocked, %	-			-		
Mov Cap-1 Maneuver	-	-	-	-	521	776
Mov Cap-2 Maneuver	· _	-	-	-	521	-
Stage 1	-	-	-	-	780	-
Stage 2	-	-	-	-	787	-
Approach	EB		WB		NB	
HCM Control Delay, s	0		0		10.6	
HCM LOS					В	
Miner Lene/Maier Mu			ГОТ			
winor Lane/wajor Mvr	π		ERI	WRI		
Capacity (veh/h)		729	-	-		
HCM Lane V/C Ratio		0.115	-	-		
HCM Control Delay (s	5)	10.6	-	-		
HCM Lane LOS		В	-	-		

0.4

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HCM 95th %tile Q(veh)

2

Intersection

Int Delay, s/veh

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	2	233	11	70	189	5	14	1	24	0	1	4
Future Vol, veh/h	2	233	11	70	189	5	14	1	24	0	1	4
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	100	100	100	100	100	100	100	100	100	100	100	100
Heavy Vehicles, %	4	4	4	4	4	4	4	4	4	4	4	4
Mvmt Flow	2	233	11	70	189	5	14	1	24	0	1	4

Major/Minor	Major1		Major2		Min	or1		Minor2			
Conflicting Flow All	194	0	0 244	0	0 5	577 577	239	587	580	192	
Stage 1	-	-		-	- 2	243 243	-	332	332	-	
Stage 2	-	-		-	- 3	334 334	-	255	248	-	
Critical Hdwy	4.14	-	- 4.14	-	- 7	.14 6.54	6.24	7.14	6.54	6.24	
Critical Hdwy Stg 1	-	-		-	- 6	.14 5.54	-	6.14	5.54	-	
Critical Hdwy Stg 2	-	-		-	- 6	.14 5.54	-	6.14	5.54	-	
Follow-up Hdwy	2.236	-	- 2.236	-	- 3.5	536 4.036	3.336	3.536	4.036	3.336	
Pot Cap-1 Maneuver	1367	-	- 1311	-	- 4	425 425	795	418	423	845	
Stage 1	-	-		-	- 7	756 701	-	677	641	-	
Stage 2	-	-		-	- 6	676 640	-	745	698	-	
Platoon blocked, %		-	-	-	-						
Mov Cap-1 Maneuver	1367	-	- 1311	-	- 4	402 399	795	385	397	845	
Mov Cap-2 Maneuver	-	-		-	- 4	402 399	-	385	397	-	
Stage 1	-	-		-	- 7	754 700	-	676	603	-	
Stage 2	-	-		-	- 6	602 602	-	720	697	-	
Approach	EB		WB			NB		SB			
HCM Control Delay, s	0.1		2.1		1	1.7		10.3			
HCM LOS						В		В			

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR \$	SBLn1
Capacity (veh/h)	578	1367	-	-	1311	-	-	689
HCM Lane V/C Ratio	0.067	0.001	-	-	0.053	-	-	0.007
HCM Control Delay (s)	11.7	7.6	0	-	7.9	0	-	10.3
HCM Lane LOS	В	А	А	-	А	А	-	В
HCM 95th %tile Q(veh)	0.2	0	-	-	0.2	-	-	0

Intersection

Int Delay, s/veh

Major/Minor	Major1	N	lajor2		Minor1	
Conflicting Flow All	0	-	-	-	832	408
Stage 1	-	-	-	-	408	-
Stage 2	-	-	-	-	424	-
Critical Hdwy	-	-	-	-	6.44	6.24
Critical Hdwy Stg 1	-	-	-	-	5.44	-
Critical Hdwy Stg 2	-	-	-	-	5.44	-
Follow-up Hdwy	-	-	-	-	3.536	3.336
Pot Cap-1 Maneuver	-	0	0	-	336	639
Stage 1	-	0	0	-	667	-
Stage 2	-	0	0	-	656	-
Platoon blocked, %	-			-		
Mov Cap-1 Maneuver	· -	-	-	-	336	639
Mov Cap-2 Maneuver	· -	-	-	-	336	-
Stage 1	-	-	-	-	667	-
Stage 2	-	-	-	-	656	-
Annroach	FR		WR		NB	
HCM Control Delay			0		12.8	
HCM LOS	0		0		12.0 R	
					U	
Minor Lane/Major Mvi	mt N	IBLn1	EBT	WBT		
Capacity (veh/h)		552	-	-		
HCM Lane V/C Ratio		0.167	-	-		
HCM Control Delay (s	5)	12.8	-	-		
HCM Lane LOS		В	-	-		

0.6

HCM 95th %tile Q(veh)
6.1

Intersection

Int Delay, s/veh

						==						
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	4	188	84	300	148	4	20	0	204	0	0	0
Future Vol, veh/h	4	188	84	300	148	4	20	0	204	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None									
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage,	# -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	100	100	100	100	100	100	100	100	100	100	100	100
Heavy Vehicles, %	4	4	4	4	4	4	4	4	4	4	4	4
Mvmt Flow	4	188	84	300	148	4	20	0	204	0	0	0

Major/Minor	Major1		1	Major2			Minor1			Minor2			
Conflicting Flow All	152	0	0	272	0	0	988	990	230	1090	1030	150	
Stage 1	-	-	-	-	-	-	238	238	-	750	750	-	
Stage 2	-	-	-	-	-	-	750	752	-	340	280	-	
Critical Hdwy	4.14	-	-	4.14	-	-	7.14	6.54	6.24	7.14	6.54	6.24	
Critical Hdwy Stg 1	-	-	-	-	-	-	6.14	5.54	-	6.14	5.54	-	
Critical Hdwy Stg 2	-	-	-	-	-	-	6.14	5.54	-	6.14	5.54	-	
Follow-up Hdwy	2.236	-	-	2.236	-	-	3.536	4.036	3.336	3.536	4.036	3.336	
Pot Cap-1 Maneuver	1417	-	-	1280	-	-	224	244	804	191	232	891	
Stage 1	-	-	-	-	-	-	761	705	-	400	416	-	
Stage 2	-	-	-	-	-	-	400	415	-	671	675	-	
Platoon blocked, %		-	-		-	-							
Mov Cap-1 Maneuver	1417	-	-	1280	-	-	179	181	804	114	172	891	
Mov Cap-2 Maneuver	-	-	-	-	-	-	179	181	-	114	172	-	
Stage 1	-	-	-	-	-	-	759	703	-	399	310	-	
Stage 2	-	-	-	-	-	-	298	309	-	499	673	-	
Approach	EB			WB			NB			SB			
HCM Control Delay, s	0.1			5.8			14.2			0			
HCM LOS							В			A			
Minor Lano/Major Myn	ot	NDI n1	EDI	EDT	EDD	\//DI		\//DD	CDI n1				

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	BLn1	
Capacity (veh/h)	613	1417	-	-	1280	-	-	-	
HCM Lane V/C Ratio	0.365	0.003	-	-	0.234	-	-	-	
HCM Control Delay (s)	14.2	7.5	0	-	8.7	0	-	0	
HCM Lane LOS	В	А	А	-	А	А	-	А	
HCM 95th %tile Q(veh)	1.7	0	-	-	0.9	-	-	-	

Intersection

Int Delay, s/veh

0.8						
EBT	EBR	WBL	WBT	NBL	NBR	
1			1	Y		
334	0	0	405	6	48	
334	0	0	405	6	48	
0	0	0	0	0	0	I
Free	Free	Free	Free	Stop	Stop	
-	None	-	None	-	None	!
-	-	-	-	0	-	
# 0	-	-	0	0	-	
0	-	-	0	0	-	
100	100	100	100	100	100	I
4	4	4	4	4	4	
334	0	0	405	6	48	
	0.8 EBT 334 334 0 Free - - - # 0 0 100 4 334	0.8 EBT EBR 334 0 334 0 0 0 Free Free - None - None # 0 - 0 - 100 100 4 4 334 0	0.8 EBT EBR WBL 334 0 00 334 0 00 334 0 00 C 0 0 0 Free Free Free - None - # 0 100 100 100 4 4 4 334 0 0	0.8 WBL WBT ▲ EBR WBL WBT ▲ 0 0 405 334 0 0 405 334 0 0 405 334 0 0 405 0 0 0 405 0 0 0 405 0 0 0 0 Free Free Free Free None - None - 4 0 100 100 100 100 100 100 4 4 4 4 334 0 0 405	0.8 EBT EBR WBL WBT NBL 1 1 1 1 1 334 0 0 405 6 334 0 0 405 6 334 0 0 405 6 334 0 0 0 0 0 334 0 0 0 0 0 0 Free Free Free Free None - - - None - None - 0 0 - - 0 0 0 0 0 # 0 100 100 100 100 100 100 100 100 100 4 4 4 334 0 0 405 6	0.8 EBT EBR WBL WBT NBL NBR 334 0 0 405 6 48 334 0 0 405 6 48 334 0 0 405 6 48 334 0 0 405 6 48 0 0 0 0 0 0 Free Free Free Free Stop Stop - None - None - None - - - 0 0 - - # 0 - - 0 0 - - # 0 - - 0 0 - - - 100 100 100 100 100 100 - <

Major/Minor	Major1	Ν	Major2		Minor1		
Conflicting Flow All	0	-	-	-	739	334	
Stage 1	-	-	-	-	334	-	
Stage 2	-	-	-	-	405	-	
Critical Hdwy	-	-	-	-	6.44	6.24	
Critical Hdwy Stg 1	-	-	-	-	5.44	-	
Critical Hdwy Stg 2	-	-	-	-	5.44	-	
Follow-up Hdwy	-	-	-	-	3.536	3.336	
Pot Cap-1 Maneuver	-	0	0	-	382	703	
Stage 1	-	0	0	-	721	-	
Stage 2	-	0	0	-	669	-	
Platoon blocked, %	-			-			
Mov Cap-1 Maneuver	· -	-	-	-	382	703	
Mov Cap-2 Maneuver	· -	-	-	-	382	-	
Stage 1	-	-	-	-	721	-	
Stage 2	-	-	-	-	669	-	
Approach	FB		WB		NB		
HCM Control Delay	. 0		0		11 1		
HCM LOS	, ,		U		B		
					D		
Minor Lane/Major Mvi	mt	NBLn1	EBT	WBT			
Capacity (veh/h)		643	-	-			
HCM Lane V/C Ratio		0.084	-	-			
HCM Control Delay (s	s)	11.1	-	-			
HCM Lane LOS		В	-	-			
HCM 95th %tile Q(vel	n)	0.3	-	-			

2.9

Intersection

Int Delay, s/veh

••					WET			NET		0.51	0.D.T	
Movement	EBL	EBT	EBR	WBL	WBI	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		4			4			4			4	
Traffic Vol, veh/h	1	266	58	177	236	2	10	0	61	0	0	0
Future Vol, veh/h	1	266	58	177	236	2	10	0	61	0	0	0
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	4 -	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	100	100	100	100	100	100	100	100	100	100	100	100
Heavy Vehicles, %	4	4	4	4	4	4	4	4	4	4	4	4
Mvmt Flow	1	266	58	177	236	2	10	0	61	0	0	0

Major/Minor I	Major1		Major2	2		Minor1			Minor2			
Conflicting Flow All	238	0	0 324	- U	0	888	889	295	919	917	237	
Stage 1	-	-	-		-	297	297	-	591	591	-	
Stage 2	-	-	-		-	591	592	-	328	326	-	
Critical Hdwy	4.14	-	- 4.14	- 1	-	7.14	6.54	6.24	7.14	6.54	6.24	
Critical Hdwy Stg 1	-	-	-		-	6.14	5.54	-	6.14	5.54	-	
Critical Hdwy Stg 2	-	-	-		-	6.14	5.54	-	6.14	5.54	-	
Follow-up Hdwy	2.236	-	- 2.236	ò -	-	3.536	4.036	3.336	3.536	4.036	3.336	
Pot Cap-1 Maneuver	1317	-	- 1225	5 -	-	262	280	740	250	270	797	
Stage 1	-	-	-		-	707	664	-	490	491	-	
Stage 2	-	-	-		-	490	491	-	681	645	-	
Platoon blocked, %		-	-	-	-							
Mov Cap-1 Maneuver	1317	-	- 1225	5 -	-	228	233	740	200	225	797	
Mov Cap-2 Maneuver	-	-	-		-	228	233	-	200	225	-	
Stage 1	-	-	-		-	706	663	-	490	409	-	
Stage 2	-	-	-		-	408	409	-	624	644	-	
Approach	EB		WE	}		NB			SB			
HCM Control Delay, s	0		3.6	6		12.3			0			
HCM LOS						В			Α			

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR S	BLn1
Capacity (veh/h)	562	1317	-	-	1225	-	-	-
HCM Lane V/C Ratio	0.126	0.001	-	-	0.144	-	-	-
HCM Control Delay (s)	12.3	7.7	0	-	8.4	0	-	0
HCM Lane LOS	В	А	А	-	А	А	-	А
HCM 95th %tile Q(veh)	0.4	0	-	-	0.5	-	-	-

4.1.2 SCHEMATIC DESIGN BINDER

- D. Environmental & Existing Building Assessment
 - 1. Environmental Narrative
 - 2. Hazardous Material Report

MSBA Module 4

Schematic Design

4.1.2 SCHEMATIC DESIGN BINDER D. Environmental & Existing Building Assessment 1. Environmental Narrative

The PDP and PSR filings described the initial investigation/sampling of the existing building for asbestos containing materials (ACM). That preliminary report and associated cost recommendations form the basis for hazardous materials abatement costs carried in the Schematic Design (SD) cost estimate.

LPA|A recommends and will schedule additional testing for hazardous materials at concealed and/or inaccessible locations, mastic damp-proofing at exterior cavity wall assemblies, and roofing systems, that were not analyzed during the previous hazardous materials assessment. This work should be performed during the Design Development phase, when the Construction Manager is retained and can coordinate the logistics and repair of the substrate.

Geotechnical borings were performed during the Schematic Design phase (5 in total). Additional geotechnical borings and test pits are scheduled to be conducted in the Design Development phase. These soil samples will also be analyzed for arsenic content. The Environmental Consultant will develop a soils management plan for incorporation by the Construction Manager. It is recommended that, during the early DD phase, existing soils be tested per COMM 97 for presence of heavy metals and other potentially hazardous materials that could limit onsite reuse or impact offsite disposal costs.

Relative to the proposed geothermal ground source heat pump HVAC system, a test well will be drilled early in the DD phase to obtain thermal properties for the design of the well field. The test may well be included as part of the permanent geothermal system.

All subsurface test explorations will be field located and documented as part of the existing conditions site survey.





FINAL REPORT FOR HAZARDOUS MATERIALS IDENTIFICATION STUDY AT THE CLINTON MIDDLE SCHOOL CLINTON, MASSACHUSETTS

PROJECT NO: 223 038.00

Survey Dates: January 27, 2023 and February 2, 2023

CONDUCTED BY:

UNIVERSAL ENVIRONMENTAL CONSULTANTS 12 Brewster Road Framingham, MA 01702



February 7, 2023

Mr. Peter A. Caruso, Jr. LPA|A 108 Grove Street Worcester, MA 01605

Reference: <u>Report for Hazardous Materials Identification Study</u> Clinton Middle School, Clinton, MA

Dear Mr. Caruso:

Thank you for the opportunity for Universal Environmental Consultants (UEC) to provide professional services.

Enclosed please find the report for the hazardous materials identification study at the Clinton Middle School, Clinton, MA.

Please do not hesitate to call should you have any questions.

Very truly yours,

Universal Environmental Consultants

Ammar M. Dieb President

UEC:\223 038.00\Report.DOC

Enclosure

INTRODUCTION:

Universal Environmental Consultants (UEC) has been providing comprehensive asbestos services since 2001 and has completed projects throughout New England. We have completed projects for a variety of clients including commercial, industrial, municipal, and public and private schools. We maintain appropriate asbestos licenses and staff with a minimum of thirty-three years of experience.

UEC was contracted by LPA A to conduct the following services at the Clinton Middle School, Clinton, Massachusetts:

- Asbestos Containing Materials (ACM) determination inspection and sampling.
- Polychlorinated Biphenyls (PCB's)-Electrical Equipment and Light Fixtures inspection.
- PCB's in Caulking inspection.
- Lead Based Paint (LBP) inspection.
- Mercury in Rubber Flooring inspection and sampling.
- Airborne Mold inspection and sampling.
- Radon sampling.

The scope of work included the inspection of accessible ACM, collection of bulk samples from materials suspected to contain asbestos, determination, and quantities of types of ACM found and cost estimates for remediation. <u>A</u> comprehensive survey including roofing and destructive testing per the Environmental Protection Agency (EPA) NESHAP regulation would be required prior to any renovation or demolition activities.

Bulk samples analyses for asbestos were performed using the standard Polarized Light Microscopy (PLM) Method in accordance with EPA standard. Bulk samples were collected by a Massachusetts licensed asbestos inspector Mr. Jason Becotte (AI-034963) and analyzed by a Massachusetts licensed laboratory EMSL, Woburn, MA. Previous sampling was also performed part of AHERA inspections.

Airborne mold samples were analyzed by an EPA approved laboratory EMSL, Woburn, MA.

Radon samples were analyzed by an EPA licensed laboratory AccuStar, Ward Hill, MA.

Samples results are attached.

FINDINGS:

Asbestos Containing Materials (ACM):

The regulations for asbestos inspection are based on representative sampling. It would be impractical and costly to sample all materials in all areas. Therefore, representative samples of each homogenous area were collected and analyzed or assumed.

All suspect materials were grouped into homogenous areas. By definition a homogenous area is one in which the materials are evenly mixed and similar in appearance and texture throughout. A homogeneous area shall be determined to be ACM based on findings that the results of at least one sample collected from that area shows that asbestos is present in an amount of 1 percent or greater in accordance with EPA regulations. Per the Department of Environmental Protection (DEP) any amount of asbestos found must be disposed as asbestos.

No additional suspect or accessible ACM were found during this survey. Hidden ACM may be found during the renovation and demolition activities.

Number of Samples Collected:

Thirty-one (31) bulk samples were collected from materials suspected of containing asbestos, including:

Type and Location of Suspect Material

- 1. Interior vertical caulking at first floor hallway
- 2. Interior vertical caulking at second floor hallway

- 3. 2' x 4' Suspended acoustical ceiling tile at music storage
- 4. 2' x 4' Suspended acoustical ceiling tile at library
- 5. Black sink coating at library work room
- 6. Black sink coating at room 1
- 7. Science lab countertop at room 5
- 8. Science lab countertop at room 15
- 9. Grey duct sealant above stage
- 10. Grey duct sealant above stage
- 11. Interior window glazing caulking at custodian office
- 12. Interior window glazing caulking at library
- 13. Interior metal door glass glazing caulking at first floor hallway
- 14. Interior metal door glass glazing caulking at second floor hallway
- 15. Rough ceiling plaster at boiler room
- 16. Rough ceiling plaster at boiler room
- 17. Rough ceiling plaster at boiler room
- 18. Exterior window framing caulking
- 19. Exterior window framing caulking
- 20. Exterior window framing caulking
- 21. Exterior door framing caulking
- 22. Exterior door framing caulking
- 23. Exterior door framing caulking
- 24. Exterior unit vent grille caulking
- 25. Exterior unit vent grille caulking
- 26. Exterior unit vent grille caulking
- 27. Exterior expansion joint caulking
- 28. Exterior expansion joint caulking
- 29. Exterior expansion joint caulking
- 30. Exterior greenhouse caulking
- 31. Exterior greenhouse caulking

Sample Results:

Type and Location of Suspect Material

- 1. Interior vertical caulking at first floor hallway
- 2. Interior vertical caulking at second floor hallway
- 3. 2' x 4' Suspended acoustical ceiling tile at music storage
- 4. 2' x 4' Suspended acoustical ceiling tile at library
- 5. Black sink coating at library work room
- 6. Black sink coating at room 1
- 7. Science lab countertop at room 5
- 8. Science lab countertop at room 15
- 9. Grey duct sealant above stage
- 10. Grey duct sealant above stage
- 11. Interior window glazing caulking at custodian office
- 12. Interior window glazing caulking at library
- 13. Interior metal door glass glazing caulking at first floor hallway
- 14. Interior metal door glass glazing caulking at second floor hallway
- 15. Rough ceiling plaster at boiler room
- 16. Rough ceiling plaster at boiler room
- 17. Rough ceiling plaster at boiler room
- 18. Exterior window framing caulking
- 19. Exterior window framing caulking
- 20. Exterior window framing caulking
- 21. Exterior door framing caulking
- 22. Exterior door framing caulking

Sample Result

No Asbestos Detected No Asbestos Detected No Asbestos Detected No Asbestos Detected 2% Asbestos 2% Asbestos No Asbestos Detected No Asbestos Detected 3% Asbestos 3% Asbestos 3% Asbestos 3% Asbestos 3% Asbestos 3% Asbestos No Asbestos Detected No Asbestos Detected

- 23. Exterior door framing caulking
- 24. Exterior unit vent grille caulking
- 25. Exterior unit vent grille caulking
- 26. Exterior unit vent grille caulking
- 27. Exterior expansion joint caulking
- 28. Exterior expansion joint caulking
- 29. Exterior expansion joint caulking
- 30. Exterior greenhouse caulking
- 31. Exterior greenhouse caulking

Observations and Conclusions:

The condition of ACM is very important. ACM in good condition does not present a health issue unless it is disturbed. Therefore, it is not necessary to remediate ACM in good condition unless it will be disturbed through renovation, demolition, or other activity.

Refer to the AHERA Management Plan for condition of ACM.

- 1. Black sink coating was found to contain asbestos.
- 2. Grey duct sealant was found to contain asbestos.
- 3. Interior window glazing caulking was found to contain asbestos.
- 4. Interior metal door glass glazing caulking was found to contain asbestos.
- 5. Duct insulation was previously found to contain asbestos.
- 6. Hard joint insulation was previously found to contain asbestos.
- 7. Various types of 12" x 12" vinyl floor tiles were either assumed or previously found to contain asbestos.
- 8. Mastic for various types of 12" x 12" vinyl floor tiles were either assumed or previously found to contain asbestos.
- 9. Transite inside fume hoods was assumed to contain asbestos.
- 10. Wood fire doors insulation was assumed to contain asbestos.
- 11. Paper/mastic under hardwood flooring were assumed to contain asbestos.
- 12. Insulation/rope inside boilers were assumed to contain asbestos.
- 13. Glue holding old blackboard was assumed to contain asbestos.
- 14. Exterior damproofing on foundation/exterior walls was assumed to contain asbestos. The demolition contractor will have to segregate the ACM from non-ACM building surfaces for proper disposal. A non-traditional abatement plan would have to be prepared and submitted to the DEP for approval.
- 15. Roofing was assumed to contain asbestos.
- 16. Underground sewer pipes were assumed to contain asbestos.
- 17. All other suspect materials were found not to contain asbestos. Hidden ACM may be found during renovation and demolition activities.

Polychlorinated Biphenyls (PCB's)-Electrical Equipment and Light Fixtures:

Observations and Conclusions

Visual inspection of various equipments such as light fixtures, thermostats, exit signs and switches was performed for the presence of PCB's and mercury. Ballasts in light fixtures were assumed not to contain PCB's since there were labels indicating that "No PCB's" was found. Tubes in light fixtures, thermostats, signs, and switches were assumed to contain mercury. It would be very costly to test those equipments and dismantling would be required to access. Therefore, the above equipments should be disposed in an EPA approved landfill as part of the demolition project.

PCB's in Caulking Material:

Observations and Conclusions

Building caulking was previously found to contain <50ppm of PCB's. PCB's are manmade chemicals that were widely produced and distributed across the country from the 1950s to 1977 until the production of PCB's was banned by the US Environmental Protection Agency (EPA) law which became effective in 1978. PCB's are a class of chemicals made up of more than 200 different compounds. PCB's are non-flammable, stable, and good insulators so they were widely used in a variety of products including electrical transformers and capacitors, cable and wire coverings, sealants and caulking, and household products such as television sets and fluorescent light fixtures. Because of their

No Asbestos Detected chemical properties, PCB's are not very soluble in water, and they do not break down easily in the environment. PCB's also do not readily evaporate into air but tend to remain as solids or thick liquids. Even though PCB's have not been produced or used in the country for more than 30 years, they are still present in the environment in the air, soil, and water and in our food. EPA requires that all construction waste including caulking be disposed as PCB's if PCB's level exceed 50 mg/kg (ppm). An abatement plan might also be required depending on scope of work.

Lead Based Paint (LBP):

Observations and Conclusions

A school is not considered a regulated facility. All LBP activities performed, including waste disposal, should be in accordance with applicable Federal, State, or local laws, ordinances, codes, or regulations governing evaluation and hazard reduction. These requirements can be found in OSHA 29 CFR 1926-Construction Industry Standards, 29 CFR 1926.62-Construction Industry Lead Standards, 29 CFR 1910.1200-Hazards Communication, 40 CFR 261-EPA Regulations. According to OSHA, any amount of LBP triggers compliance.

Mercury in Rubber Flooring:

Observations and Conclusions:

No rubber flooring was found.

Airborne Mold:

Airborne mold testing was performed utilizing Zefon International Incorporated's Air-O-Cell[®] sampling device following all manufacturer supplied recommended sampling procedures. Air-O-Cell[®] is a direct read total particulate air sampling device. It works using the inertial impaction principle similar to other spore trap devices. It is designed for the rapid collection and analysis of airborne particulate including bioaerosols. The particulate includes fibers (e.g., asbestos, fiberglass, cellulose, clothing fibers) opaque particles (e.g., fly ash, combustion particles, copy toner, oil droplets, paint), and bioaerosols (e.g., mold spores, pollen, insect parts, skin cell fragments).¹

The method involves drawing a known quantity of air through a sterile sampling cassette. Subsequent to sampling, the cassette is sealed and transferred to a microbiology laboratory under chain of custody protocol for microscopic analysis. This method counts both viable and nonviable mold spores.

Lab ID #	Location	Total Mold Counts/M ³	Pollen	Insect Fragment	Hyphal Fragments
132300586-0001	Room C-3	ND	ND	ND	ND
132300586-0002	Room 5	40	ND	ND	ND
132300586-0003	Media Center	ND	ND	ND	ND
132300586-0004	Gymnasium	100	ND	ND	ND
132300586-0005	Hallway outside Room 11	60	ND	ND	7
132300586-0006	Room C-7	20	ND	ND	ND
132300586-0007	Room 15	40	ND	ND	20
132300586-0008	Music Room 2	80	ND	ND	ND
132300586-0009	Room 21	ND	ND	ND	20
132300586-0010	Guidance Office	40	ND	ND	ND
132300586-0011	Outside	ND	600	ND	ND

AIRBORNE MOLD and PARTICULATE

¹ Zefon International Inc. <www.zefon.com>

Lab ID # **Skin Fragment Total Background** Location Fibrous **Density (SFD)** Particulate (TBP) Particulates (FP) 132300586-0001 Room C-3 1 1 2 132300586-0002 Room 5 1 1 3 1 132300586-0003 Media Center 1 1 1 1 2 132300586-0004 Gymnasium 3 132300586-0005 Hallway outside Room 11 1 1 Room C-7 132300586-0006 1 2 2 2 132300586-0007 Room 15 1 1 132300586-0008 Music Room 2 1 1 2 132300586-0009 Room 21 1 1 2 132300586-0010 **Guidance Office** 1 1 2 132300586-0011 1 Outside 1 2

AIRBORNE MOLD and PARTICULATE (Subjective Scales)

Legend:

ND - Not Detected

SFD: 1 - 4 scale where 1 is low and 4 is high - TBP: 1 - 5 scale where 1 is low and 5 is high

Observations and Conclusions:

There are currently no guidelines or standards promulgated by a government agency or widely recognized scientific organizations for the interpretation of airborne mold spore levels. The most commonly employed tool used to assess if mold growth is occurring and there is amplification in a structure is to evaluate the indoor levels and species as well as to compare levels and species of mold outdoors to indoors. Typically, if there were more molds indoors, and/or if species were present indoors which were not present outdoors, then growth and amplification is likely occurring and further evaluation and perhaps remediation is recommended.

Based on comparisons with historical data from projects of similar type, building utilization, geographic location, and season, breathing zone indoor airborne levels are considered very low. Indoor mold spore counts in the winter are typically in the 500-1,500-spores/cubic meter range.

Breathing zone indoor and also outdoor samples indicated the presence of large quantities of several common types of mold which are not considered to be hazardous. Pollen, insect fragments and Hyphal fragments were either not present or low in the samples. Hyphal fragment is a non-reproductive part of the mold.

Total background particulate on all samples was assessed as "1-2" on a scale of 1-5 where 1 is low and 5 is high. Skin fragment density on all samples was assessed as "1" on a scale of 1-4 where 1 is low and 4 is high. The total background levels are measured to determine airborne dust not related to airborne mold. Skin fragments are measured to determine proper housing cleaning.

Radon:

Number of Samples Collected

Ten (10) air samples were collected at the following locations:

Location of Material

- 1. Music room 2
- 2. Main office
- 3. Teacher's dining room
- 4. Room 6
- 5. Conference Room
- 6. Language lab 10
- 7. Room C-5
- 8. Room 13
- 9. Media center
- 10. Planning room

Location of Material

1.	Music room 2	0.6 pCi\L
2.	Main office	0.9 pCi\L
3.	Teacher's dining room	0.6 pCi\L
4.	Room 6	0.6 pCi\L
5.	Conference Room	2.2 pCi\L
6.	Language lab 10	1.3 pCi\L
7.	Room C-5	1.2 pCi\L
8.	Room 13	0.6 pCi\L
9.	Media center	2.2 pCi\L
10.	Planning room	0.7 pCi\L

Sample Result

Observations and Conclusions:

The measured radon concentrations were found to be much lower than the EPA guideline of 4.0-pCi/L. No further action is required based on the results.

COST ESTIMATES:

The cost includes removal and disposal of all accessible ACM, other hazardous material, and an allowance for removal of inaccessible or hidden ACM that may be found during renovation or demolition project

Location	Material	Approximate Quantity	Cost Estimate (\$)
Throughout	Various Types of Flooring and Mastic	70,000 SF	420,000.00
	Hard Joint Insulation	50 LF	5,000.00
	Hidden Hard Joint Insulation	1,000 LF	30,000.00
	Interior Windows	36 Total	10,800.00
	Interior Doors with Windows	72 Total	21,600.00
	Sinks	12 Total	3,600.00
	Blackboards/Tackboards	120 Total	48,000.00
	Miscellaneous Hazardous Materials	Unknown	25,000.00
	Hidden ACM	Unknown	15,000.00
	Light Fixtures	Unknown	75,000.00
Various Locations	Wood Fire Doors	10 Total	4,000.00
	Fume Hoods	3 Total	9,000.00
	Grey Duct Sealant	500 LF	25,000.00
Boiler Room	Duct Insulation	225 SF	11,250.00
	Boilers	2 Total	19,000.00
Gymnasium	Hardwood Flooring/Paper/Mastic	8,700 SF	87,000.00
Stage	Hardwood Flooring/Paper/Mastic	700 SF	7,000.00

Location	Material	Approximate Quantity	Cost Estimate (\$)
Exterior	Transite Sewer Pipes	Unknown ¹	75,000.00
	Damproofing/Flashing on Walls	3,500 Tons ¹	700,000.00
	Roofing Material	Unknown	160,000.00
Estimated costs for NESHA	P Inspection and Testing Services	rvices	14,750.00
Estimated costs for Design,	Construction Monitoring and Air Sampling Ser		169,000.00
		TOTAL:	\$ 1,935,000.00

¹: Part of total demolition/addition.

DESCRIPTION OF SURVEY METHODS AND LABORATORY ANALYSES:

Asbestos:

Asbestos samples were collected using a method that prevents fiber release. Homogeneous sample areas were determined by criteria outlined in EPA document 560/5-85-030a. Bulk material samples were analyzed using PLM and dispersion staining techniques with EPA 600/R-93/116 method.

Airborne Mold:

The samples were analyzed by an EPA approved laboratory EMSL, Woburn, MA.

Radon:

Radon samples were analyzed by an EPA licensed laboratory AccuStar, Ward Hill, MA.

LIMITATIONS AND CONDITIONS:

This report has been completed based on visual and physical observations made and information available at the time of the site visits, as well as an interview with the Owner's representatives. This report is intended to be used as a summary of available information on existing conditions with conclusions based on a reasonable and knowledgeable review of evidence found in accordance with normally accepted industry standards, state, and federal protocols, and within the scope and budget established by the client. Any additional data obtained by further review must be reviewed by UEC and the conclusions presented herein may be modified accordingly.

This report and attachments, prepared for the exclusive use of Owner for use in an environmental evaluation of the subject site, are an integral part of the inspections and opinions should not be formulated without reading the report in its entirety. No part of this report may be altered, used, copied, or relied upon without prior written permission from UEC, except that this report may be conveyed in its entirety to parties associated with Owner for this subject study.

Inspected By:

iso Berotto

Jason Becotte Asbestos Inspector

Town/City: -

132300738

CHAIN OF CUSTODY

Universal Environmental Consultants
12 Brewster Road
Framingham, MA 01702
Tel: (508) 628-5486 - Fax: (508) 628-5488
adieb@uec-env.com
Clinton MA

PLM 24-hourTAT

MA Building Name Middle School

Sample	Description of Material	Sample Location
1	Vertical CAU Caulk	1st Fl. Hallway
2	1	Fro Fl. Hallway
3	2×4 SAT	Music Storage
4	1 (Library
5	Black sink wating	Library work For n
6	1 1	Room 1
7	Science lab counter top	Rooms
8	LI	Ran 15
9	Gruy duct sealant	AHU above Stage
10	ų i	
11	Interior window glaze	Custodia office
12	2	Library
13	metal door glass glaze	lst fl. Hallway
14	L	2nd fl. Hallway
15	Rough ceiling pluster	Boiler roum
16		
17	/ /	
18	Window Frame Cuulk	exterior window
19		
20		
Reported	By: Jason Bewell Date	ユーノーナ 3 E: Due Date: 24-Hours
Received	d By: Date	9:

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Page 1 Of 2 .

132300738

CHAIN OF CUSTODY

	Univers	al Environmental Consultants	
	12 Brew	vster Road .	PLM
	Framing	nam, MA_01702 8) 628-5486 - Eav: (508) 628 5488	
	adieb@	uec-env.com	
1	Town/Cit	y: Clinton MA	Building Name
ر. \$2.3	_ Sample	Description of Material	Sample Location
	21	Dour Frane calk	exterior dur
Γ	22	· · · ·	
F	23		
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L	-27	Expansion Joint Caul	IN Opterior Brick Joint
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L	Reporte	d By: Jaron Bewele	 Date: Due Date: 24-Hours
	1,000140		REC'D SPL-1335 WILL - EMSL-BOSTON FEB 0 3 2023

EMSL Order: 132300738 **EMSL** Analytical, Inc. Customer ID: UEC63 5 Constitution Way, Unit A Woburn, MA 01801 EMSL **Customer PO:** Tel/Fax: (781) 933-8411 / (781) 933-8412 Project ID: http://www.EMSL.com / bostonlab@emsl.com Attention: Ammar Dieb **Phone:** (617) 984-9772 Universal Environmental Consultants Fax: (508) 628-5488 12 Brewster Road Received Date: 02/03/2023 1:35 PM Framingham, MA 01702 Analysis Date: 02/06/2023 Collected Date: 02/02/2023 Project: Middle School, Clinton, MA

Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Non-Asbes	stos	Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре		
1	1st Fl Hallway - Vertical CMU Caulk	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected		
132300738-0001		Homogeneous					
2	2nd Fl Hallway - Vertical CMU Caulk	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected		
132300738-0002		Homogeneous					
3	Music Storage - 2x4 SAT	Gray/White Fibrous	55% Cellulose 10% Min. Wool	35% Non-fibrous (Other)	None Detected		
132300738-0003		Homogeneous					
4	Library - 2x4 SAT	Gray/White Fibrous	55% Cellulose 10% Min. Wool	35% Non-fibrous (Other)	None Detected		
-		Homogeneous					
5	Library Work Room - Black Sink Coating	Black Fibrous		98% Non-fibrous (Other)	2% Chrysotile		
132300738-0005		Homogeneous					
6	Room 1 - Black Sink Coating	Black Fibrous		98% Non-fibrous (Other)	2% Chrysotile		
-		Homogeneous					
7	Room 5 - Science Lab Countertop	Black Non-Fibrous		100% Non-fibrous (Other)	None Detected		
132300738-0007		Homogeneous					
8	Room 15 - Science Lab Countertop	Black Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected		
0		Crew					
9 132300738-0009	Gray Duct Sealant	Gray Fibrous Homogeneous		97% Non-librous (Other)	3% Chrysotile		
10		Crew					
10	Gray Duct Sealant	Gray Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile		
11	Custodian Office	Crow		07% Non fibrous (Other)	20/ Chrysotile		
122200728 0011	Interior Window Glaze	Fibrous Homogeneous		97% Non-librous (Other)	5% Chrysotile		
132300738-0011		Contraction					
12	Library - Interior Window Glaze	Gray Fibrous Homogeneous		97% Non-fibrous (Other)	3% Chrysotile		
12	1et El Hellwov Metel	Crow		07% Non fibrous (Other)	20/ Chrysotile		
13	Door Glass Glaze	Gray Fibrous		97% Non-librous (Other)	3% Chrysotile		
132300738-0073		Homogeneous			00/ 01 //		
122200728 0014	2nd FI Hallway - Metal Door Glass Glaze	Gray Fibrous		97% Non-fibrous (Other)	3% Chrysotile		
132300738-0014		Contraction			New Datastal		
132300738-0015	Boiler Room - Rough Ceiling Plaster	Gray Non-Fibrous Homogeneous		100% Non-librous (Other)			
16	Boiler Room - Pouch	Grav		100% Non-fibrous (Other)	None Detected		
132300738-0016	Ceiling Plaster	Non-Fibrous			NOTIE DELECTED		
		omogeneous					



Test Report: Asbestos Analysis of Bulk Materials via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy

			Asbestos		
Sample	Description	Appearance	% Fibrous	% Non-Fibrous	% Туре
17	Boiler Room - Rough	Gray		100% Non-fibrous (Other)	None Detected
132300738-0017	Ceiling Plaster	Non-Fibrous Homogeneous			
18	Exterior Window - Window Frame Caulk	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132300738-0018		Homogeneous			
19	Exterior Window - Window Frame Caulk	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132300738-0019		Homogeneous			
20	Exterior Window - Window Frame Caulk	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132300738-0020		Homogeneous			
21	Exterior Door - Door Frame Caulk	White Fibrous	<1% Fibrous (Other)	100% Non-fibrous (Other)	None Detected
132300738-0021		Homogeneous			
22	Exterior Door - Door Frame Caulk	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132300738-0022		Homogeneous			
122200728 0022	Exterior Door - Door Frame Caulk	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132300738-0023	E	Homogeneous			
24	Exterior Vent Grill - Unit Vent Caulk	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132300738-0024	E <i>i</i> i <i>i i i</i> o i	Homogeneous			
122200728 0025	Exterior Vent Grill - Unit Vent Caulk	White Non-Fibrous		100% Non-fibrous (Other)	None Detected
132300738-0023		Homogeneous			New Datastal
132300738-0026	Unit Vent Caulk	Non-Fibrous		100% Non-fibrous (Other)	None Detected
07	Extorior Prick Joint	Croy		100% Non fibrous (Other)	None Detected
21	Expansion Joint Caulk	Non-Fibrous Homogeneous			None Delected
28	Exterior Brick Joint	Grav		100% Non-fibrous (Other)	None Detected
132300738-0028	Expansion Joint Caulk	Non-Fibrous Homogeneous			None Delected
29	Exterior Brick Joint -	Grav		100% Non-fibrous (Other)	None Detected
132300738-0029	Expansion Joint Caulk	Non-Fibrous Homogeneous			
30	Rear Exterior	Grav		100% Non-fibrous (Other)	None Detected
132300738-0030	Greenhouse - Greenhouse Caulk	Non-Fibrous Homogeneous			
31	Rear Exterior Greenhouse -	Gray Non-Fibrous		100% Non-fibrous (Other)	None Detected
132300738-0031	Greenhouse Caulk	Homogeneous			



5 Constitution Way, Unit A Woburn, MA 01801 Tel/Fax: (781) 933-8411 / (781) 933-8412 http://www.EMSL.com / bostonlab@emsl.com EMSL Order: 132300738 Customer ID: UEC63 Customer PO: Project ID:

Analyst(s)

Ramon Buenaventura (31)



Steve Grise, Laboratory Manager or Other Approved Signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. The above analyses were performed in general compliance with Appendix E to Subpart E of 40 CFR (previously EPA 600/M4-82-020 "Interim Method") but augmented with procedures outlined in the 1993 ("final") version of the method. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST or any agency of the federal government. Non-friable organically bound materials present a problem matrix and therefore EMSL recommends gravimetric reduction prior to analysis. Unless requested by the client, building materials manufactured with multiple layers (i.e. linoleum, wallboard, etc.) are reported as a single sample. Estimation of uncertainty is available on request.

Samples analyzed by EMSL Analytical, Inc. Woburn, MA NVLAP Lab Code 101147-0, CT PH-0315, MA AA000188, RI AAL-139, VT AL998919, ME LB-0039

Initial report from: 02/06/2023 11:07:58

	•		Fra	ninghai	п, MA 017 СНА	⁰²	Fax: 508.6	28.5486 528.5488 ✔	1	323	30() 5 8	6
BUILDIN	G / SITE	NAME:	Clin	ton 1	NIDDIE	Schoo	Точ	VN / CITY	: _ LI	intor)		
	WORK	AREA:	VARI	005	c IASS RO	um s		STATE	:	A			
Analysis	1131178.9407	Turna	round Tin	ne(x)	S-250 Materials Sa	ARLEN H	「「「ないない」などのない	Specif	S Assass	t Notes	XMAA	2819 1/2/45	6.1474-M.D.1.2
Туре	6-8 Hr	12 Hr	24 Hr	48 Hr	72 hr					<i>(</i>).			
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SAMPLE ID	MA	TERIAL D	ESCRIPT	NC		SAMPL	ELOCATION		START	STOP	TIME	LIMIN	VOLUM
1	348	36 9	616		RMC	-3 1	ausic busle	mic PANEl	1616	1626	10	15	150
2	348	6 96	612		RM.	5 Frio	mof white	(BOARD)	1630	1640	10	15	150
3	348	6.96	517		MEDIA	CENTO	ER NSAN	Pilano	1642	1652	10	15	150
4	3480	6 90	625		GYM	UNDER	SCORE BOA	FRD	1711	1721	10	15	150
5	3486	5 96	622		HAILWA	1 outsi's	x Room	11	1724	1734	10	15	150
6	348	6 90	010	×	RM C-	7 BACK	by clock +	BAtheom	1737	1747	10	15	150
7.	3486	97	72		Rm 15	NEXT	to teacher	DESK	1751	1801	10	15	150
8	3486) 9=	179		music -	2 NEA	R Piano		1804	1844	10	15	150
9	3480	5 95	167	•	REDDING	Rm 21	COMTER		1817	1827	10	15	150
10	3480	6 9'	183		Guidan	ce off inter	of Room		1831	1841	10	15	150
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EMSL

EMSL Analytical, Inc.

5 Constitution Way, Unit A Woburn, MA 01801 Tel/Fax: (781) 933-8411 / (781) 933-8412 http://www.EMSL.com / bostonlab@emsl.com EMSL Order: 132300586 Customer ID: UEC63 Customer PO: Project ID:

Attention: Ammar Dieb

Universal Environmental Consultants 12 Brewster Road Framingham, MA 01702 Phone: (617) 984-9772 Fax: (508) 628-5488 Collected Date: 01/27/2023 Received Date: 01/30/2023 08:30 AM Analyzed Date: 01/31/2023

Project: Various Classrooms - Clinton Middle School; Clinton, MA

Test Report:Air-	Test Report:Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)										
Lab Sample Number:	1	32300586-0001		1	32300586-0002		1	32300586-0003			
Client Sample ID:		1		2			3				
Volume (L): Sample Location:		150			150		150				
Sample Location.	Room C	-3 Music by Electric P	anel	Room 5 Front of White Board			Media Center near Piano				
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total		
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-		
Ascospores	-	-	-	-	-	-	-	-	-		
Aspergillus/Penicillium	-	-	-	2	40	100	-	-	-		
Basidiospores	-	-	-	-	-	-	-	-	-		
Bipolaris++	-	-	-	-	-	-	-	-	-		
Chaetomium++	-	-	-	-	-	-	-	-	-		
Cladosporium	-	-	-	-	-	-	-	-	-		
Curvularia	-	-	-	-	-	-	-	-	-		
Epicoccum	-	-	-	-	-	-	-	-	-		
Fusarium++	-	-	-	-	-	-	-	-	-		
Ganoderma	-	-	-	-	-	-	-	-	-		
Myxomycetes++	-	-	-	-	-	-	-	-	-		
Pithomyces++	-	-	-	-	-	-	-	-	-		
Rust	-	-	-	-	-	-	-	-	-		
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-		
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-		
Unidentifiable Spores	-	-	-	-	-	-	-	-	-		
Zygomycetes	-	-	-	-	-	-	-	-	-		
Total Fungi	-	None Detect	-	2	40	100	-	None Detect	-		
Hyphal Fragment	-	-	-	-	-	-	-	-	-		
Insect Fragment	-	-	-	-	-	-	-	-	-		
Pollen	-	-	-	-	-	-	-	-	-		
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-		
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-		
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-		
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-		
Background (1-5)	-	2	-	-	3	-	-	1	-		

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

the P.S.

Steve Grise, Laboratory Manager

or other Approved Signatory

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Initial report from: 01/31/2023 10:50 AM



5 Constitution Way, Unit A Woburn, MA 01801 Tel/Fax: (781) 933-8411 / (781) 933-8412 http://www.EMSL.com / bostonlab@emsl.com EMSL Order: 132300586 Customer ID: UEC63 Customer PO: Project ID:

Attention: Ammar Dieb

Universal Environmental Consultants 12 Brewster Road Framingham, MA 01702 Phone: (617) 984-9772 Fax: (508) 628-5488 Collected Date: 01/27/2023 Received Date: 01/30/2023 08:30 AM Analyzed Date: 01/31/2023

Project: Various Classrooms - Clinton Middle School; Clinton, MA

Test Report:Air-	Test Report:Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)										
Lab Sample Number:	1	32300586-0004		1	32300586-0005		1	32300586-0006			
Client Sample ID:		4 150		150			0 150				
Sample Location:	Ourse and a Decar Decard					- 11	Boom C 7 Book by Clock & Pothroom				
Spare Types	Gym under Score Board			Hallwa	ay outside Roor	N 11 % of Total	Paw Count Count/m ³ % of Total				
Alternaria (Illocladium)	Raw Count	Count/m	% of Total	Raw Count	Count/ms	% of Total	Raw Count	Count/In-	% 01 10tai		
Atemana (Olociadium)	-	_	-	-	_	-	_	_	-		
Aspergillus/Penicillium	5	100	100	3	60	100	1	20	100		
Basidiospores	-	-	-	-	-	-	-	-	-		
Bipolaris++	-	-	-	-	-	-	-	-	-		
Chaetomium++	-	-	-	-	-	-	-	-	-		
Cladosporium	-	-	-	-	-	-	-	-	-		
Curvularia	-	-	-	-	-	-	-	-	-		
Epicoccum	-	-	-	-	-	-	-	-	-		
Fusarium++	-	-	-	-	-	-	-	-	-		
Ganoderma	-	-	-	-	-	-	-	-	-		
Myxomycetes++	-	-	-	-	-	-	-	-	-		
Pithomyces++	-	-	-	-	-	-	-	-	-		
Rust	-	-	-	-	-	-	-	-	-		
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-		
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-		
Unidentifiable Spores	-	-	-	-	-	-	-	-	-		
Zygomycetes	-	-	-	-	-	-	-	-	-		
Total Fungi	5	100	100	3	60	100	1	20	100		
Hyphal Fragment	-	-	-	1*	7*	-	-	-	-		
Insect Fragment	-	-	-	-	-	-	-	-	-		
Pollen	-	-	-	-	-	-	-	-	-		
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-		
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-		
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-		
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	2	-		
Background (1-5)	-	2	-	-	3	-	-	2	-		

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

the P.S.

Steve Grise, Laboratory Manager

or other Approved Signatory

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Test Report:Air-	Test Report:Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)										
Lab Sample Number: Client Sample ID: Volume (L):	132300586-0007 7 150 Room 15 next to Teacher Desk			1	32300586-0008 8 150		132300586-0009 9 150 Reading Room 21 next to Counter				
Sample Location:				Mu	sic 2 near Pian	0					
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total		
Alternaria (Ulocladium)	-	-	-	-	-	-	-	-	-		
Ascospores	-	-	-	-	-	-	-	-	-		
Aspergillus/Penicillium	-	-	-	3	60	75	-	-	-		
Basidiospores	1	20	50	-	-	-	-	-	-		
Bipolaris++	-	-	-	-	-	-	-	-	-		
Chaetomium++	1	20	50	-	-	-	-	-	-		
Cladosporium	-	-	-	-	-	-	-	-	-		
Curvularia	-	-	-	-	-	-	-	-	-		
Epicoccum	-	-	-	1	20	25	-	-	-		
Fusarium++	-	-	-	-	-	-	-	-	-		
Ganoderma	-	-	-	-	-	-	-	-	-		
Myxomycetes++	-	-	-	-	-	-	-	-	-		
Pithomyces++	-	-	-	-	-	-	-	-	-		
Rust	-	-	-	-	-	-	-	-	-		
Scopulariopsis/Microascus	-	-	-	-	-	-	-	-	-		
Stachybotrys/Memnoniella	-	-	-	-	-	-	-	-	-		
Unidentifiable Spores	-	-	-	-	-	-	-	-	-		
Zygomycetes	-	-	-	-	-	-	-	-	-		
Total Fungi	2	40	100	4	80	100	-	None Detect	-		
Hyphal Fragment	1	20	-	-	-	-	1	20	-		
Insect Fragment	-	-	-	-	-	-	-	-	-		
Pollen	-	-	-	-	-	-	-	-	-		
Analyt. Sensitivity 600x	-	21	-	-	21	-	-	21	-		
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-	7*	-		
Skin Fragments (1-4)	-	1	-	-	1	-	-	1	-		
Fibrous Particulate (1-4)	-	1	-	-	1	-	-	1	-		
Background (1-5)	-	2	-	-	2	-	-	2	-		

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

the P.S.

Steve Grise, Laboratory Manager

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Project: Various Classrooms - Clinton Middle School; Clinton, MA

Test Report:Air-	Test Report:Air-O-Cell(™) Analysis of Fungal Spores & Particulates by Optical Microscopy (Methods MICRO-SOP-201, ASTM D7391)											
Lab Sample Number: Client Sample ID: Volume (L): Sample Leastion	umber: 132300586-0010 nple ID: 10 ime (L): 150			1	32300586-0011 11 150							
Sample Location.	Guidance	Office Center o	f Room	Outside Courtyan								
Spore Types	Raw Count	Count/m ³	% of Total	Raw Count	Count/m ³	% of Total	-	-	-			
Alternaria (Olociadium)	-	-	-	-	-	-	-		-			
Assospores	-	-	-	-	-	-	-		-			
Aspergilius/Pericilium	2	40	100	-	-	-	-					
Basiciospores	-	-	-	-	-	-	-		-			
	-	-	-	-	-	-	-					
Cladopporium	-	-	-	-	-	-	-		-			
Cladospolium	-	-	-	-	-	-	-					
Cuivularia	-	-	-	-	-	-	-		-			
Epicocculii	-	-	-	-	-	-	-					
Fusailuii++	-	-	-	-	-	-	-		-			
Ganodernia	-	-	-	-	-	-	-					
Dithemuses L	-	-	-	-	-	-	-		-			
Pluiomyces++	-	-	-	-	-	-	-					
Rust	-	-	-	-	-	-	-		-			
Scopulariopsis/Microascus	-	-	-	-	-	-	-					
	-	-	-	-	-	-	-		-			
	-	-	-	-	-	-	-					
Zygomycetes	-	-	-	-	-	-	-		-			
I otal Fungi	2	40	100	-	None Detect	-	-		-			
Hypnal Fragment	-	-	-	-	-	-	-		-			
Insect Fragment	-	-	-	-	-	-			-			
Pollen	-	-	-	29	600	-	-	-	-			
Analyt. Sensitivity 600x	-	21	-	-	21	-	-					
Analyt. Sensitivity 300x	-	7*	-	-	7*	-	-		-			
Skin Fragments (1-4)	-	1	-	-	1	-	-		-			
Fibrous Particulate (1-4)	-	1	-	-	1	-	-		-			
Background (1-5)	-	2	-	-	2	-	-	-	-			

++ Includes other spores with similar morphology; see EMSL's fungal glossary for each specific category.

the P.S.

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Initial report from: 01/31/2023 10:50 AM



Radon in Air

	atory Rer						NRSB Device Code 12193
Labora		ort for:				Property Tested:	
I	Universa 12 Brews	l Environm ter Road	ental Cor	sultant	Clinton Middle School 100 West Boylston St		
	Framingh	nam MA	01702			Clinton MA 01510	
Log	Device		Test Evon	sure Duratio	n.	Area Tested	Result
Number	Number				0.50		p0#2
8293128	4890336	01/27/2023	2:58 pm	01/30/2023	6:50 am	First Floor Music 2	0.6
8293129	4890307	01/27/2023	2:58 pm	01/30/2023	6:50 am	First Floor Music 2	0.7
8293130	4890297	01/27/2023	3:04 pm	01/30/2023	6:52 am		0.0
8293131	4890287	01/27/2023	3:04 pm	01/30/2023	6:52 am		0.9
8293132	4890316	01/27/2023	3:08 pm	01/30/2023	6:54 am	First Floor Teachers Dining	0.5
8293133	4890306	01/27/2023	3:08 pm	01/30/2023	6:54 am	First Floor Teachers Dining	0.6
8293134	4890295	01/27/2023	3:20 pm	01/30/2023	7:00 am	First Floor Room 6	0.6
8293135	4890286	01/27/2023	3:20 pm	01/30/2023	7:00 am	First Floor Room 6	0.8
8293136	4890277	01/27/2023	3:25 pm	01/30/2023	6:59 am	First Floor Conference Room	2.2
8293137	4890347	01/27/2023	3:25 pm	01/30/2023	6:59 am	First Floor Conference Room	2.1
8293138	4890326	01/27/2023	3:35 pm	01/30/2023	7:01 am	First Floor Language Lab Room 10	1.3

Comment: Universal Environmental Consultant was emailed a copy of this report.

Test Performed By: Placed: Keith McGovern Retrieved: Keith McGovern

Distributed by: Universal Environmental Consultant

Date Received: 01/30/2023 Date Logged: 01/30/2023

Date Ana yzed: 01/31/2023 Date Reported: 01/31/2023

Report Reviewed By: <u>Mintue</u> Mu Report Approved By:

Disclaimer:

Shawn Price, Director of Laboratory Operations, AccuStar Labs buting to uncertainty include statistical variations, daily and seasonal variations in

The counting uncertainty of this radon measurement is ~+/- 10 %. Factors contributing to uncertainty include statistical variations, daily and seasonal variations in radon concentrations, sample collection techniques and operation of the dwelling. Interference with test conditions may influence the test results.

This report may only be transferred to a third party in its entirety. Laboratory personnel were not involved in the placement or retrieval of the samples. Analytical results relate to the samples as received by the laboratory. Results shown on this report represent levels of radon gas measured between the dates shown in the room or area of the site identified above as "Property Tested". Incorrect information will affect results. The results may not be construed as either predictive or supportive of measurements conducted in any area of this structure at any other time. AccuStar Labs, its employees and agents are not responsible for the consequences of any action taken or not taken based upon the results reported or any verbal or written interpretation of the results.



Radon in Air

NELAC I NRPP 10 NRSB A	NY 11769 03216 AL RL0017						EPA Method #402-R-92-004 Liquid Scintillation NRPP Device Code 8088 NRSB Device Code 12193
Labora	atory Rep	ort for:				Property Tested:	
	Universal 12 Brews Framingh	Environm ter Road am MA	ental Con: 01702	sultant		Clinton Middle School 100 West Boylston St Clinton MA 01510	
Log Number	Device Number		Test Expos	sure Duratio	n:	Area Tested	Result pCi/L
8293139	4890265	01/27/2023	3:35 pm	01/30/2023	7:01 am	First Floor Language Lab Room 10	1.2
8293140	4890267	01/27/2023	3:40 pm	01/30/2023	7:03 am	First Floor Room C-5	1.2
8293141	4890337	01/27/2023	3:40 pm	01/30/2023	7:03 am	First Floor Room C-5	1.0
8293142	4890285	01/27/2023	3:47 pm	01/30/2023	7:05 am	First Floor Room 13-14	0.5
8293143	4890276	01/27/2023	3:40 pm	01/30/2023	7:05 am	First Floor Room 13-14	0.6
8293144	4890266	01/27/2023	3:52 pm	01/30/2023	6:56 am	First Floor Media Center	2.2
8293145	4890275	01/27/2023	3:52 pm	01/30/2023	6:56 am	First Floor Media Center	2.2
8293146	4890305	01/27/2023	4:06 pm	01/30/2023	7:07 am	First Floor Planning Room	0.7
8293147	4890346	01/27/2023	4:06 pm	01/30/2023	7:07 am	First Floor Planning Room	0.6
8293148	4890296	01/27/2023	4:06 pm	01/30/2023	7:07 am	Field Blank	< 0.4

Comment: Universal Environmental Consultant was emailed a copy of this report.

Test Performed By: Placed: Keith McGovern Retrieved: Keith McGovern

Distributed by: Universal Environmental Consultant

Date Received: 01/30/2023 Date Logged: 01/30/2023 Date Ana yzed: 01/31/2023

Date Reported: 01/31/2023

Disclaimer:

Report Reviewed By: <u>Aliatud MM</u> Report Approved By:

Shawn Price, Director of Laboratory Operations, AccuStar Labs

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4.1.2 SCHEMATIC DESIGN BINDER

- E. Geotechnical & Geo
 - environmental Analysis
 - 1. Geotechnical Narrative
 - 2. Geotechnical Report

MSBA Module 4 Schematic Design

4.1.2 SCHEMATIC DESIGN BINDER E. Geotechnical & Geo-environmental Analysis

1. Geotechnical Narrative

Below is the response provided to MSBA's review comments of the PSR:

District Response: The PDP reference to unsuitable existing soils pertain to the 1996 test borings in, and immediately east of, the high school building footprint; these borings indicated substantial layers of fill and organic materials.

As noted in the PDP, the 1954 geotechnical exploration program consisted of eight (8) test borings advanced to depths of between 16–42'. These borings were located to the east of the existing middle school on what is currently baseball/softball fields (which is also the location of the proposed new middle school). The existing boring logs indicate that the material encountered in this area was primarily compact sand and gravel with some boulders and fill.

Accordingly, LPA|A does not believe there are significant deposits or layers of unsuitable soils in the proposed building area. With that said, LPA|A acknowledges that there may be isolated areas of unsuitable soils between the existing 1954 test borings and recommends that the Schematic Design cost estimate design contingency include the cost of removing/replacing minor amounts of unsuitable materials.

LPA|A also recommends that a more comprehensive subsurface geotechnical exploration program, in the areas of the proposed building footprint and site infrastructure, be conducted during the early Design Development phase in June 2024.

The potential impact to the design is that areas of unsuitable soils would need to be removed and replaced with compacted structural fill. Additionally, there may be an impact on the structural design of foundations/footings.

Based on the District's response to MSBA's PSR review comments (refer to red text above), LPA|A and the OPM agreed that it would be beneficial to perform a preliminary limited-scope subsurface geotechnical exploration program, during the SD phase, to capture potential scope and cost related to removal/replacement of unsuitable soils. Lahlaf Geotechnical Consulting, Inc. (LGCI) was contracted to advance five (5) borings, within the proposed building footprint, to a depth of approximately 22' by and make preliminary foundation design and construction recommendations. LGCI's report (refer to 4.1.2.E.2) identified layers of surficial topsoil, existing fill and buried organics which are unsuitable to





MSBA Module 4 Schematic Design

4.1.2 SCHEMATIC DESIGN BINDER

E. Geotechnical & Geo-environmental Analysis

1. Geotechnical Narrative

support building foundations. The fill and organic layers varied in composition and density, and LGCI recommended that they be removed entirely from within the building footprint and be replaced by compacted structural fill. LGCI's report also notes that, while the existing fill may not be reused as structural or ordinary fill as is, the portion of it free of organics can be amended and reused as ordinary fill beneath pavement, fields and other site areas.

Within the building footprint, the test borings show the organic layer to vary in depth from 2'-10' below grade. For SD cost estimating purposes an average depth of 6' was used to calculate the amount of over-excavation and replacement with structural fill. It was assumed that the existing fill within the building footprint will be separated from any organics, amended, and reused as ordinary fill as described above.

Moving forward into the DD phase, LPA|A and our design team will perform a more comprehensive subsurface geotechnical exploration program, including test borings targeting the existing organic layer, to inform future design and cost estimating. In addition, core samples collected from the test borings will be tested for the presence of naturally occurring arsenic, which will dictate any special requirements for onsite reuse of existing soils. The locations of all new test explorations will be field located and documented as part of the existing conditions site survey.







October 7, 2023

Mr. Peter A. Caruso Jr., AIA, NCARB, LEED AP Associate Principal Lamoureux Pagano Associates 108 Grove Street, Suite 300 Worcester, MA 01605 Phone: (508) 752-2831 E-mail: PCaruso@lpaa.com

Re: Preliminary Geotechnical Report Proposed Clinton Middle School Clinton, Massachusetts LGCI Project No. 2341

Dear Mr. Caruso:

Lahlaf Geotechnical Consulting, Inc. (LGCI) has completed a preliminary geotechnical study for the proposed Clinton Middle School in Clinton, Massachusetts. We are submitting our preliminary geotechnical report electronically. Please notify us if you need a hard copy.

The soil samples from our explorations are currently stored at LGCI for further analysis, if requested. Unless notified otherwise, we will dispose of the soil samples after three (3) months.

Thank you for choosing LGCI as your geotechnical engineer.

Very truly yours,

Lahlaf Geotechnical Consulting, Inc.

Abdelmadjid M. Lahlaf, Ph.D., P.E. Principal Engineer



PRELIMINARY GEOTECHNICAL REPORT PROPOSED CLINTON MIDDLE SCHOOL CLINTON, MASSACHUSETTS LGCI Project No. 2341 October 7, 2023

Prepared for:

Lamoureux Pagano Associates

108 Grove Street, Suite 300 Worcester, MA 01605 Phone: (508) 752-2831

Tel: (978) 330-5912

Fax: (978) 330-5056

www.lgcinc.net

PRELIMINARY GEOTECHNICAL REPORT PROPOSED CLINTON MIDDLE SCHOOL CLINTON, MASSACHUSETTS LGCI Project No. 2341

October 7, 2023

Prepared for:

Lamoureux Pagano Associates

108 Grove Street, Suite 300 Worcester, MA 01605 Phone: (508) 752-2831

Prepared by:

LAHLAF GEOTECHNICAL CONSULTING, INC.

100 Chelmsford Road, Suite 2 Billerica, Massachusetts 01862 Phone: (978) 330-5912 Fax: (978) 330-5056



Abdelmadjid M. Lahlaf, Ph.D., P.E. Principal Engineer

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Preliminary Geotechnical Report Proposed Clinton Middle School Clinton, Massachusetts LGCI Project No. 2341

1. PROJECT INFORMATION

1.1 Project Authorization

This preliminary geotechnical report presents the results of the preliminary subsurface explorations and a preliminary geotechnical evaluation performed by Lahlaf Geotechnical Consulting, Inc. (LGCI) for the proposed Clinton Middle School in Clinton, Massachusetts. We performed our services in general accordance with our proposal No. 23110 dated September 12, 2023. Ms. Kathryn Crockett of Lamoureux Pagano Associates (LPA) authorized our services by signing our proposal on September 19, 2023.

1.2 Purpose and Scope of Services

The purpose of our preliminary geotechnical services was to perform preliminary subsurface explorations at the site for the proposed Clinton Middle School, and to provide preliminary foundation design and construction recommendations. LGCI performed the following services:

- Coordinated our exploration locations with LPA.
- Marked the exploration locations at the site and notified Dig Safe Systems Inc. (Dig Safe) and the Town of Clinton for utility clearance.
- Engaged a drilling subcontractor for one (1) day to advance five (5) soil borings at the site.
- Provided an LGCI geotechnical field representative at the site to coordinate and observe the borings, describe the soil samples, and prepare field logs.
- Submitted two (2) soil samples from the explorations for laboratory testing.
- Prepared this preliminary geotechnical report containing the results of our preliminary subsurface explorations and our preliminary recommendations for foundation design and construction.

Our scope does not include preparing specifications, reviewing the geotechnical aspect of the foundation drawings, or providing general consultation during the design phase. LGCI would be pleased to perform these services when needed. Recommendations for unsupported slopes, stormwater management, erosion control, pavement design, slope stability analyses, liquefaction and/or site-specific seismic analysis, pile analysis and design, and detailed cost or quantity estimates are not included in our scope of work.

LGCI's scope of services does not include an environmental assessment for the presence or absence of wetlands or analytical testing for hazardous or toxic materials in the soil, surface water, groundwater, or air, on or below or around this site, or mold in the soil or in any structure at the


site. Any statements regarding odors, colors, or unusual or suspicious items or conditions are strictly for the information of the client.

1.3 Site Description

Our understanding of the site is based on our field observations, our discussions with LPA, and on the following documents:

- Drawing titled: "Existing Conditions Plan, Clinton Middle School, 100W Boylston St., Clinton, MA 01510," (Existing Conditions Plan) prepared by Nitsch Engineering, Inc., dated June 22, 2023, and provided to LGCI by LPA via e-mail on September 26, 2023.
- Drawing titled: "Conceptual Site Layout Plan, Clinton Middle School, 100W Boylston St., Clinton, MA 01510," (Site Plan) prepared by Nitsch Engineering, Inc., dated June 23, 2023, and provided to LGCI by LPA via e-mail on September 7, 2023.
- Document titled: "Feasibility Study PDP," (Previous Explorations Report) prepared by LPA, undated, and provided to LGCI by LPA via e-mail on September 7, 2023.

The site is located at 100 West Boylston Street in Clinton, Massachusetts, as shown in Figure 1. The site is bordered by West Boylston Street on the northern side, by Main Street and private properties on the eastern side, by Dike Path on the southern side, and by Clinton High School on the western side. The site is currently occupied by the existing Clinton Middle School building and its associated parking lot, driveways, and athletic fields. The existing parking lot is located north of the existing school building. The existing driveway loops around the existing school building. The existing driveway loops around the existing school building to West Boylston Street.

Based on the Existing Conditions Plan, the grades at the site generally range between El. 360 feet near the northeastern corner of the site and El. 378 feet near the southern edge of the site. The existing grades in the existing parking lot located to the north of the existing building range between El. 370 feet and El. 372 feet. The existing grades around the existing school building range between El. 374 feet and El. 375 feet. The existing grades within the athletic fields range between El. 374 feet and El. 378 feet. The grades gradually drop in a northerly direction from the athletic fields to a wooded depression near West Boylston Street from El. 374 feet to El. 360 feet.

1.4 Historic Topographic Maps

LGCI reviewed historic topographic maps from 1889, 1943, 1965, and 1979 available from https://livingatlas.arcgis.com/topoexplorer/index.html. The maps are shown below with a red "+" denoting the site location.

The historic topographic map from 1889 shows Clinton Mill Pond to the west of the site within the area of the existing Clinton High School building. The 1889 topographic map shows the area of the existing eastern athletic fields at an elevation of about El. 360 feet. The 1943 topographic



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map shows that Clinton Mill Pond was filled to reclaim land. The 1943 topographic map shows the elevation in the location of the existing eastern athletic fields at an elevation between El. 370 feet and El. 380 feet. The 1965 topographic map and the 1979 topographic map show that the elevation in the location of the existing eastern athletic fields has not significantly changed since 1943, including after the construction of the existing middle school building, which was constructed in 1975.



Topographical map from 1889



Topographical map from 1943



Topographical map from 1965



Topographical map from 1979



1.5 Project Description

Our understanding of the proposed construction is based on our discussions with LPA and the documents listed in Section 1.3 of this preliminary geotechnical report.

We understand that the Town of Clinton has engaged LPA to design a new school to replace the existing Clinton Middle School. Based on our discussions with LPA and referencing the Site Plan, we understand that the proposed construction will consist of an irregularly-shaped building located in the athletic field east of the existing Clinton Middle School building. We understand that the proposed building will have a footprint of about 86,700 square feet and will have a first finished floor elevation (FFE) at El. 375 feet. The existing grades within the footprint of the proposed building range between El. 374 feet and El. 377 feet; thus, requiring fills up to 1 foot and cuts up to 2 feet to achieve the proposed grade of the proposed building. We understand that the proposed building will not have a basement.

We understand that the proposed construction will also include a paved parking lot and an athletic field located within the existing Clinton Middle School building and the existing parking lot located to the north of the existing school. Paved driveways will be located around the perimeter of the proposed building and proposed parking lot. The site will be accessible via access roads connected to West Boylston Street and Main Street. The grading details for the proposed parking lot, roadways, and athletic field are not available at the time of this geotechnical report.

1.6 Elevation Datum

We understand that the elevations provided in the Existing Conditions Plan and Site Plan are referenced with respect to the North American Vertical Datum of 1988 (NAVD 1988). No datum is referenced in the Previous Explorations Report.



2. SITE AND SUBSURFACE CONDITIONS

2.1 Surficial Geology

LGCI reviewed a surficial geologic map titled: "Surficial Materials Map of the Clinton Quadrangle, Massachusetts," prepared by Stone, B.D. and Stone J.R., Scientific Investigation Map 3402, Quadrangle 85 – Clinton, 2018.

The surficial geologic map of the site indicates that the natural soils in the general vicinity of the site consist of artificial fill and coarse deposits.

The artificial fill consists of earth materials and manmade materials that have been artificially emplaced.

The coarse deposits consist of sand, sand and gravel, and gravel deposits as described below.

Sand Deposits – The sand deposits are comprised mostly of fine to coarse sand. Coarser layers may contain up to 25 percent gravel. Finer layers may contain very fine sand, silt, and clay.

Sand and Gravel Deposits –The sand and gravel deposits occur as a mixture of gravel and sand within individual layers and as alternating layers of sand and gravel. The sand and gravel layers range between 25 to 50 percent gravel and 50 to 75 percent sand.

Gravel Deposits – The gravel deposits are comprised of at least 50 percent gravel, cobbles, and boulders. Sand occurs within gravel beds and as separate layers within the gravel.

The Surficial Geologic Map is shown in Figure 2.

2.2 Previous Explorations Performed by Others

Based on the Previous Explorations Report, we understand that Raymond Concrete Pile Company of Boston, Massachusetts advanced eight (8) soil borings (Boring No. 1 to Boring No. 8) at the site in July of 1956. The 1956 borings were performed within the existing athletic fields to the east of the existing middle school. The 1956 boring logs indicate that the subsurface conditions consisted of up to 1.5 feet of topsoil overlying compact sand and gravel. The borings were advanced from ground surface elevations ranging between El. 380.4 feet and El. 386.4 feet. Groundwater was encountered in the 1956 borings at elevations ranging between El. 361.5 feet and El. 364.8 feet. The ground surface elevations provided in the 1956 boring logs do not match the elevations provided in the Existing Conditions Plan and are, in general, about 10 feet higher in elevation than the grades shown in the Existing Conditions Plan. Since a datum was not included in the logs, it is not known how the elevations shown in the logs of the previous explorations relate to the existing grades.

We understand that New England Test Boring Corp. of East Boston, Massachusetts advanced eight (8) soil borings (Boring-A to Boring-H) at the site in January of 1974. The 1974 borings were



performed within and around the footprint of the existing Clinton Middle School. The 1974 boring logs indicate that, in general, the subsurface conditions consisted of up to 2.5 feet of topsoil and fill, overlying medium dense to very dense sand and gravel. In borings C, D, and E, located near the southwestern corner of the existing middle school, the subsurface conditions consisted of 9 to 14 feet of topsoil, fill, and peat overlying a medium dense to very dense sand and gravel. The borings were advanced from ground surface elevations ranging between El. 377.3 feet and El. 384.5 feet. Groundwater was not encountered within the 1974 borings. The ground surface elevations provided in the 1974 boring logs do not match the elevation provided in the Existing Conditions Plan and are, in general, up to about 10 feet higher in elevation than the grades shown in the Existing Conditions Plan. An elevation datum was not provided in the logs of the 1974 borings.

In 1974, four (4) additional soil borings (B-101 to B-104) were advanced at the site. The additional 1974 boring logs do not indicate who advanced the borings. The locations of the additional 1974 borings are not referenced in the Previous Explorations Report. The additional 1974 boring logs indicate that, in general, the subsurface conditions consisted of 5 to 15 feet of topsoil, fill, and buried organic soil overlying a medium dense to compact sand and gravel. In boring B-101, the subsurface conditions consisted of 40 feet of topsoil, fill, and buried organic soil overlying a very stiff silt. Boring B-101 was advanced from ground surface elevation El. 350.3 feet and borings B-102 to B-104 were advanced from ground surface elevations ranging between El. 378.4 feet and El. 384.1 feet. Groundwater was encountered in borings B-101 and B-103 at elevations of El. 323.1 feet and El. 354.0 feet, respectively. An elevation datum was not provided in the logs of the additional 1974 borings.

We understand that Miller Engineering & Testing and Environmental Drilling, Inc. advanced nineteen (19) soil borings (B-3, B-4, B-7, B-8, B-8A to B-8C, B-9, B-13, B-13A, B-14, B-14A, B-15, B-15A, NB-B, NB-BA, NB-BB, NB-E, and NB-EA) at the site in July and August of 1996. The 1996 borings were performed within and around the footprint of the existing Clinton High School building. The 1996 boring logs indicate that the subsurface conditions consisted of 5 to 25 feet of topsoil, fill, and organics overlying sand. Boring B-8 terminated in the fill layer at a depth of 16 feet beneath the ground surface. The 1996 boring logs do not provide ground surface elevations for the 1996 borings. The 1996 borings do not provide any information on groundwater within the borings.

The logs of the previous borings described in this section are included in Appendix A.

2.3 LGCI's Explorations

2.3.1 General

LGCI coordinated our exploration locations with LPA and marked the exploration locations in the field. LGCI notified Dig Safe and the Town of Clinton for utility clearance prior to starting our explorations at the site.



Unless notified otherwise, we will dispose of the soil samples obtained during our explorations after three (3) months.

2.3.2 LGCI's Soil Borings

LGCI engaged Soil Exploration Corp. (Soil X) of Leominster, Massachusetts to advance five (5) soil borings (B-1 to B-5) at the site on September 25, 2023. The borings were advanced with a Diedrich D-70 Turbo ATV Drill Rig using 4-1/4" inner-diameter hollow stem augers. The borings extended to depths of 22 feet beneath the ground surface. Upon completion, the boreholes were backfilled with the soil cuttings.

Soil X performed Standard Penetration Tests (SPT) and obtained split spoon samples with an automatic hammer at typical depth intervals of 2 feet or 5 feet as noted on the boring logs in general accordance with ASTM D-1586.

An LGCI geotechnical field representative observed and logged the borings in the field.

2.3.3 Exploration Logs and Locations

The boring locations are shown in Figure 3. Appendix B contains LGCI's boring logs. Table 1 includes a summary of LGCI's borings.

2.4 Subsurface Conditions

The subsurface description in this report is based on a limited number of explorations and is intended to highlight the major soil strata encountered during our explorations. The subsurface conditions are known only at the actual exploration locations. Variations may occur and should be expected between exploration locations. The boring logs represent conditions that we observed at the time of our explorations and were edited, as appropriate, based on the results of the laboratory test data and inspection of the soil samples in the laboratory. The strata boundaries shown in our boring logs are based on our interpretations and the actual transitions may be gradual. Graphic soil symbols are for illustration only.

The soil strata encountered in LGCI's borings were as follows, starting at the ground surface.

 $\underline{\text{Topsoil}}$ – A layer of surficial organic topsoil was encountered at the ground surface in all borings. The thickness of the topsoil ranged between 0.3 and 2.0 feet.

 $\underline{\text{Fill}}$ – A layer of fill was encountered beneath the topsoil in all borings. The fill extended to depths ranging between 2.0 and 10.0 feet beneath the ground surface. The samples within this layer were mostly described as silty sand. Two (2) samples were described as poorly graded sand, and one (1) sample was described as well graded sand. The fines content in the fill ranged between 10 and 30 percent, and the gravel content ranged between 0 and 25 percent. The fill contained traces of organic soil.



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The SPT N-values in this layer ranged between 5 blows per foot (bpf) and 74 bpf, with most values ranging between 14 bpf and 30 bpf, indicating mostly medium dense material. Please note that the high SPT N-values recorded in the fill may be due to obstructions such as cobbles and boulders present in the fill and may not represent the true density of the fill.

<u>Buried Organic Soil</u> – A layer of buried organic soil was encountered within the layer of fill in boring B-4. The buried organic soil was encountered at a depth of 4.0 feet and extended to a depth of 4.8 feet beneath the ground surface. The sample in this layer was described as silty sand. The fines content in this layer ranged between 25 and 30 percent, and the gravel content ranged between 0 and 5 percent. The buried organic soil contained traces of organic soil, roots, and wood.

<u>Sand and Gravel</u> – A layer of sand and gravel was encountered beneath the layer of fill in all borings and extended to the termination depths of the borings, except in boring B-3, where the sand extended to a depth of 15.0 feet beneath the ground surface. The samples in this layer were mostly described as poorly graded sand and well graded sand. Two (2) samples were described as well graded gravel. The fines content in this layer ranged between 0 and 15 percent, and the gravel content ranged between 0 and 45 percent. When described as gravel, the sand content in this layer ranged between 25 and 35 percent.

The SPT N-values in this layer ranged between 9 bpf and refusal, with most values ranging between 10 and 49 bpf, indicating mostly medium dense to dense material. Please note that the high SPT N-values in the sand and gravel may be due to obstructions such as cobbles and boulders in the sand and gravel, and may not represent the true density of the sand and gravel.

 $\underline{\text{Silt}}$ – A layer of silt was encountered beneath the sand and gravel in boring B-3 and extended to the termination depth of B-3 at a depth of 22.0 feet beneath the ground surface. The samples in this layer were described as sandy silt. The sand content in this layer ranged between 30 and 35 percent. The silt was described as non-plastic.

The SPT N-values in this layer ranged between 16 bpf and 20 bpf, indicating medium dense material.

2.5 Groundwater

Groundwater was not encountered within the borings.

The groundwater information reported herein is based on observations made during or shortly after the completion of drilling or excavation, and may not represent the actual groundwater conditions, as additional time may be required for the groundwater levels to stabilize. The groundwater information presented in this report only represents the conditions encountered at the time and location of the explorations. Seasonal fluctuation should be anticipated.



2.6 Laboratory Test Data

LGCI submitted two (2) soil samples collected from the borings for grain-size analysis. The results of the grain-size analyses are provided in the test data sheets included in Appendix C and are summarized in the table below.

Boring	Sample No.	Stratum	Sample	Percent	Percent	Percent
No.	-		Depth	Gravel	Sand	Fines
			(ft.)			
B-2	S2	Sand & Gravel	2.0 - 4.0	40.5	49.6	9.9
B-5	S 3	Fill	4.0 - 6.0	19.0	56.6	24.4

Grain-Size Analysis Test Results



3. EVALUATION AND RECOMMENDATIONS

3.1 General

Based on our understanding of the proposed construction, our observation of our borings, and the results of our laboratory testing, there are a few issues that we would like to highlight for consideration and discussion.

3.1.1 Surficial Topsoil and Existing Fill

- Surficial topsoil, existing fill, and buried organic soil were encountered in the borings These materials are not suitable to support foundations.
- The surficial topsoil should be removed from within the entire construction area, including the proposed building footprint, proposed driveways and parking lots, and athletic fields.
- The existing fill was observed to be variable in composition and density. In addition, variable amounts of organic matter were noted in several of the fill samples. Existing fill that was not placed with strict moisture, density, and gradation control presents risk of unpredictable settlement that may result in poor performance of floor slabs and foundations. Due to these risks, the existing fill as well as the buried organic soil should be entirely removed from within the proposed building footprint and replaced with Structural Fill. We anticipate that the removal will extend up to depths of about 10 feet. The removal may extend to greater depths at locations not explored by LGCI. Laterally, the removal should extend beyond the proposed building footprint a distance equal to the distance between the bottom of the proposed footings and the top of the natural sand and gravel, or 5 feet, whichever is greater.
- The subgrade of footings should be prepared in accordance with the recommendations in Section 4.1.
- Within paved areas, the existing fill and buried organic soil should be removed to the top of the natural sand and gravel or to a depth of 18 inches beneath the bottom of the proposed pavement. The existing fill and buried organic soil deeper than 18 inches beneath the bottom of the proposed pavement can remain in place provided these materials are firm and unyielding following proofrolling as described in Section 4.1.

3.1.2 Shallow Footings

Based on the results of the borings, the subsurface conditions are suitable to support shallow spread and continuous footings bearing on Structural Fill placed directly on top of the sand and gravel layer after entirely removing the surficial topsoil, the existing fill, and buried organic soil. Our recommendation for net allowable bearing capacity in the sand and gravel is presented in Section 3.2.1. Our estimates for settlement are presented in Section 3.2.2. Our



concrete slab considerations are presented in Section 3.3. Section 4.1 provides recommendations for preparation of subgrades.

3.1.3 Reuse of Onsite Materials

Traces of organic soil were observed in a few samples in the existing fill. In addition, the existing fill was silty. Accordingly, the existing fill may not be reused as Structural Fill or Ordinary Fill. The portion of the existing fill free of organic matter, i.e., with less than 3 percent by weight organic matter, could be reused as Ordinary Fill. The natural sand and gravel may be used as Ordinary Fill and Structural Fill.

Additional recommendation for reuse of onsite soils are presented in Section 4.4.

The project environmental engineer should be consulted before reusing onsite soils.

3.2 Foundation Recommendations

3.2.1 Footing Design

- We recommend entirely removing the asphalt, concrete, the surficial topsoil, and the existing fill from within the proposed building footprint as described in Section 3.1.
- We recommend supporting the proposed building on spread footings bearing on Structural Fill placed directly on the natural sand and gravel.
- We recommend designing the proposed footings using a net allowable bearing pressure of 4 kips per square foot (ksf). We recommend that the footings bear on a minimum of 12 inches of Structural Fill placed directly on top of the natural sand and gravel. The Structural Fill should extend at least 1 foot laterally beyond the limits of the footings.
- Footing subgrades should be prepared in accordance with the recommendations in Section 4.1.
- Foundations should be designed in accordance with The Commonwealth of Massachusetts State Building Code 780 CMR, Ninth Edition (MSBC 9th Edition).
- Exterior footings and footings in unheated areas should be placed at a minimum depth of 4 feet below the final exterior grade to provide adequate frost protection. Interior footings in heated areas may be designed and constructed at a minimum depth of 2 feet below finished floor grades.
- Wall footings should be designed and constructed with continuous, longitudinal steel reinforcement for greater bending strength to span across small areas of loose or soft soils that may go undetected during construction.



• A representative of LGCI should be engaged to observe that the subgrade has been prepared in accordance with our recommendations.

3.2.2 Settlement Estimates

Based on our experience with similar soils and designs using a net allowable bearing pressure of 4 ksf, we anticipate that the total settlement will be approximately 1 inch, and that the differential settlement of the footings will be 3/4 inch or less over a distance of 25 feet. We believe that total and differential settlements of this magnitude are tolerable for a similar structure. However, the tolerance of the proposed structure to the predicted total and differential settlements should be assessed by the structural engineer.

3.3 Concrete Slab Considerations

3.3.1 Slabs-on-Grade

- Floor slabs should be constructed as a slabs-on-grade bearing on a minimum of 12 inches of Structural Fill placed directly on top of the natural sand and gravel. The subgrade of the slabs should be prepared as described in Section 4.1.
- To reduce the potential for dampness in the proposed floor slab, the project architect may consider placing a vapor barrier beneath the floor slab. The vapor barrier should be protected from puncture during the placement of the proposed slab reinforcement.
- For the design of the floor slab bearing on the materials described above, we recommend using a modulus of subgrade reaction, k_{s1}, of 100 tons per cubic foot (tcf). Please note that the values of k_{s1} are for a 1 x 1 square foot area. These values should be adjusted for larger areas using the following expression:

Modulus of Subgrade Reaction
$$(k_s) = k_{s1} * \left(\frac{B+1}{2B}\right)^2$$

where:

 k_s = Coefficient of vertical subgrade reaction for loaded area; k_{s1} = Coefficient of vertical subgrade reaction for a 1 x 1 square foot area; and B = Width of area loaded, in feet.

Please note that cracking of slabs-on-grade can occur as a result of heaving or compression of the underlying soil, but also as a result of concrete curing stresses. To reduce the potential for cracking, the precautions listed below should be closely followed during the construction of all slabs-on-grade:



- Construction joints should be provided between the floor slab and the walls and columns in accordance with the American Concrete Institute (ACI) requirements, or other applicable code.
- The backfill in interior utility trenches should be properly compacted.
- In order for the movement of exterior slabs not to be transmitted to foundations or superstructures, exterior slabs, such as approach slabs and sidewalks, should be isolated from the superstructure.

3.3.2 Under-slab Drains and Waterproofing

Based on the groundwater level observed in the borings, we believe that an under-slab drainage system is not required.

If the proposed building includes an elevator pit or other structure that extends beneath the FFE, such elevator pit or other structure should be designed to be waterproof.

3.4 Seismic Design

Based on the SPT N-values from the borings, we estimate that the seismic criteria for the site are as follows:

•	Site Class:	D
•	Spectral Response Acceleration at short period (Ss):	0.194g
•	Spectral Response Acceleration at 1 sec. (S ₁):	0.068g
•	Site Coefficient Fa (Table 1613.5.3(1)):	1.6
•	Site Coefficient Fv (Table 1613.5.3(2):	2.4
•	Adjusted spectral response S _{MS} :	0.310g
•	Adjusted spectral response S _{M1} :	0.163g

Based on the SPT data from the borings, the site soils are not susceptible to liquefaction.

3.5 Lateral Pressures for Wall Design

3.5.1 Lateral Earth Pressures

Lateral earth pressures for the design of below-grade walls, if any, and site retaining walls are provided below.

Coefficient of Active Earth Pressure, K _A :	0.31
Coefficient of At-Rest Earth Pressure, Ko:	0.47
Coefficient of Passive Earth Pressure, K _p :	3.3
Total Unit Weight γ:	125 pcf



<u>Note</u>: The values in the table are based on a friction angle for the backfill of 32 degrees and neglecting friction between the backfill and the wall. The design active and passive coefficients are based on horizontal surfaces (non-sloping backfill) on both the active and passive sides, and on a vertical wall face.

- Exterior walls of below-ground spaces and other retaining walls braced at the top to restrain movement/rotation, should be designed using the "at-rest" pressure coefficient.
- We recommend placing free-draining material within the 3 feet immediately behind retaining walls.
- We recommend providing weep holes at the bottom of site retaining walls, including temporary SOE systems, to promote drainage where possible. Alternatively, a pipe should be placed at the base of the wall to collect the water. Groundwater collected by the wall drains should be discharged into a lower area if gravity flow is possible.
- Passive earth pressures should only be used at the toe of the wall where special measures or provisions are taken to prevent the disturbance or future removal of the soil on the passive side of the wall, or in areas where the wall design includes a key. In any case, the passive pressures should be neglected in the top 4 feet.
- Where a permanent vertical uniform load will be applied to the active side immediately adjacent to the wall, a horizontal surcharge load equal to half of the uniform vertical load should be applied over the height of the wall. At a minimum, a temporary lateral construction surcharge load of 100 pounds per square foot (psf) should be applied uniformly over the height of the wall.
- We recommend using an ultimate friction factor of 0.50 between the natural sand and gravel and the bottom of the wall. Below-grade walls should be designed for minimum factors of safety of 1.5 for sliding and 2.0 for overturning.

3.5.2 Seismic Pressures

In accordance with the Massachusetts State Building Code, 9th Edition (MSBC 9th Edition), Section 1610, a lateral earthquake force equal to $0.100^*(S_s)^*(F_a)^*\gamma^*H^2$ should be included in the design of the walls (for horizontal backfill), where S_s is the maximum considered earthquake spectral response acceleration (defined in Section 3.4), F_a is the site coefficient (defined in Section 3.4), γ is the total unit weight of the soil backfill, and H is the height of the wall.

The earthquake force should be distributed as an inverted triangle over the height of the wall. In accordance with MSBC 9th Edition, Section 1610.2, a load factor of 1.43 should be applied to the earthquake force for wall strength design.

Temporary surcharges should not be included when designing for earthquake loads. Surcharge loads applied for extended periods of time should be included in the total static lateral soil



pressure, and their earthquake lateral force should be computed and added to the force determined above.

3.5.3 Perimeter Drains

- We recommend that free-draining material be placed within 3 feet of the exterior of walls of below-ground spaces, if any. To reduce the potential for dampness in below-ground spaces, proposed below-ground walls should be damp-proofed.
- We recommend that drains be provided behind the exterior of walls of below-ground spaces. The drains should consist of 4-inch perforated PVC pipes installed with the slots facing down. Perimeter drains should be installed at the bottom of the wall in 18 inches of crushed stone wrapped in a geotextile for separation and filtration.

To the extent possible, groundwater collected by the wall drains should be discharged in a lower area if gravity flow is possible. In any case, the groundwater collected by the wall drains should be discharged in accordance with municipal, state, and other applicable standards.

3.6 Parking Lots, Driveways, and Sidewalks

3.6.1 General

The subsurface conditions encountered at the site are generally suitable to support the proposed driveways, parking lots, and sidewalks after preparation of the subgrade as described in Section 4.1.

- We recommend entirely removing the asphalt and concrete, and topsoil from within the proposed driveways, parking lots, and walkways and sidewalks.
- The existing fill should be improved in accordance with the recommendations in Section 4.1.
- Cobbles and boulders should be removed to at least 18 inches below the bottom of the pavement.

3.6.2 Sidewalks

- Sidewalks should be placed on a minimum of 12 inches of Structural Fill with less than 5 percent fines.
- To reduce the potential for heave caused by surface water penetrating under the sidewalk, the joints between sidewalk concrete sections should be sealed with a waterproof compound. The sidewalks should be sloped away from the building or other vertical



surfaces to promote flow of water. To the extent possible, roof leaders should not discharge onto sidewalk surfaces.

3.6.3 Pavement Sections

A typical, minimum, standard-duty pavement section that could be used for parking areas is as follows:

1.5" Asphalt "Top Course"2.0" Asphalt "Base Course"8" Processed Gravel for Sub-Base (MassDOT M1.03.1)

A typical, minimum, heavy-duty pavement section that could be used for areas of heavy truck traffic is as follows:

2.0" Asphalt "Top Course"2.5" Asphalt "Base Course"12" Processed Gravel for Sub-Base (MassDOT M1.03.1)

The pavement sections shown above represent minimum thicknesses representative of typical local construction practices for similar use. Periodic maintenance should be anticipated.

Pavement material types and construction procedures should conform to specifications of the "Standard Specifications for Highways and Bridges," prepared by the Commonwealth of Massachusetts Department of Transportation dated 2022.

Areas to receive relatively highly concentrated, sustained loads such as dumpsters, loading areas, and storage bins are typically installed over a rigid pavement section to distribute concentrated loads and reduce the possibility of high stress concentrations on the subgrade. Typical rigid pavement sections consist of 6 inches of concrete placed over a minimum of 12 inches of subbase material.

3.7 Underground Utilities

Boulders at the bottom of utility trenches should be removed to at least 12 inches below the pipe invert and the resulting excavation should be backfilled with suitable backfill. Utilities should be placed on suitable bedding material in accordance with the manufacturer's recommendations. "Cushion" material should be placed, by hand, above the utility pipe in maximum 6-inch lifts. The lift should be compacted by hand to avoid damage to the utility. Where the bedding/cushion material consists of crushed stone, it should be wrapped in a geotextile fabric.

Compaction of fill in utility trenches should be in accordance with our recommendations in Section 4.3. To reduce the potential for damage to utilities, placement and compaction of fill immediately above the utilities should be performed in accordance with the manufacturer's recommendations.



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4. CONSTRUCTION CONSIDERATIONS

4.1 Subgrade Preparation

- Organic materials, existing fill, buried organic soil, buried subsoil, abandoned utilities, buried foundations, and other below-ground structures should be entirely removed from within the footprint of the proposed building and site structures, including site retaining walls, and exterior stairs, if any, before the start of foundation work.
- Tree stumps, root balls, and roots larger than ½ inch in diameter should be removed and the cavities filled with suitable material and compacted per Section 4.3 of this report.
- Cobbles and boulders should be removed at least 6 inches from beneath footings and 18 inches beneath the bottom of slabs and paved areas. The resulting excavations should be backfilled with compacted Structural Fill under the building and with Ordinary Fill under the subbase of paved areas.
- The bottom of the excavation resulting from the removal of the existing fill or natural soil should be compacted with a dynamic vibratory compactor imparting a minimum of 40 kips of force to the subgrade.
- The base of the footing excavations in granular soil should be compacted with a dynamic vibratory compactor weighing at least 200 pounds and imparting a minimum of 4 kips of force to the subgrade.
- After the surficial materials are removed to a depth of 18 inches within the proposed paved areas in accordance with the recommendations in Section 3.1, the exposed existing fill and buried organic soil deeper than 18 inches beneath the bottom of the proposed pavement should be improved by compacting the exposed surface with at least six (6) passes of a vibratory roller compactor imparting a dynamic effort of at least 40 kips. Where soft zones or organic soil are observed, the soft zone or organic soil should be removed, and the grade should be restored using Ordinary Fill to the bottom of the proposed subbase layer. If pumping of the existing fill or buried subsoil deeper than 18 inches beneath the bottom of the proposed pavement is observed, the soft and/or pumping material should be removed and replaced.
- Fill placed within the footprint of the proposed building should meet the gradation and compaction requirements of Structural Fill, shown in Section 4.3.1.
- Fill placed under the subbase of paved areas should meet the gradation and compaction requirements of Ordinary Fill, shown in Section 4.3.2.
- Fill placed in the top 12 inches beneath sidewalks should consist of Structural Fill with less than 5 percent fines.



- Loose or soft soils identified during the compaction of the footing or floor slab subgrades should be excavated to a suitable bearing stratum, as determined by the representative of LGCI. Grades should be restored by backfilling with Structural Fill or crushed stone.
- When crushed stone is required in the drawings or is used for the convenience of the contractor, it should be wrapped in a geotextile fabric for separation except where introduction of the geotextile fabric promotes sliding. A geotextile fabric should not be placed between the bottoms of the footings and the crushed stone.
- An LGCI representative should observe the exposed subgrades prior to fill and concrete placement to verify that the exposed bearing materials are suitable for the design soil bearing pressure. If soft or loose pockets are encountered in the footing excavations, the soft or loose materials should be removed and the bottom of the footing should be placed at a lower elevation on firm soil, or the resulting excavation should be backfilled with Structural Fill, or crushed stone wrapped in a filter fabric.

4.2 Subgrade Protection

The onsite fill and natural soils are frost susceptible. If construction takes place during freezing weather, special measures should be taken to prevent the subgrade from freezing. Such measures should include the use of heat blankets or excavating the final 6 inches of soil just before pouring the concrete. Footings should be backfilled as soon as possible after footing construction. Soil used as backfill should be free of frozen material, as should the ground on which it is placed. Filling operations should be halted during freezing weather.

Materials with high fines contents are typically difficult to handle when wet, as they are sensitive to moisture content variations. Subgrade support capacities may deteriorate when such soils become wet and/or disturbed. The contractor should keep exposed subgrades properly drained and free of ponded water. Subgrades should be protected from machine and foot traffic to reduce disturbance.

4.3 Fill Materials

Structural Fill and Ordinary Fill should consist of inert, hard, durable sand and gravel free from organic matter, clay, surface coatings, and deleterious materials, and should conform to the gradation requirements shown below.

4.3.1 Structural Fill

The Structural Fill should have a plasticity index of less than 6 and should meet the gradation requirements shown below. Structural Fill should be compacted in maximum 9- inch loose lifts to at least 95 percent of the Modified Proctor maximum dry density (ASTM D1557), with moisture contents within ± 2 percentage points of the optimum moisture content.



Sieve Size Percent	Passing by Weight
3 inches	100
$1\frac{1}{2}$ inch	80-100
¹ / ₂ inch	50-100
No. 4	30-85
No. 20	15-60
No. 60	5-35
No. 200*	0-10

* 0-5 for the top 12 inches under sidewalks, exterior slabs, pads, and walkways

4.3.2 Ordinary Fill

Ordinary Fill should have a plasticity index of less than 6 and should meet the gradation requirements shown below. Ordinary Fill should be compacted in maximum 9-inch loose lifts to at least 95 percent of the Modified Proctor maximum dry density (ASTM D1557), with moisture contents within ± 2 percentage points of the optimum moisture content.

Sieve Size Percent	Passing by Weight
6 inches	100
1 inch	50-100
No. 4	20-100
No. 20	10-70
No. 60	5-45
No. 200	0-20

4.4 Reuse of Onsite Materials

Based on our field observations and the results of the grain-size analyses, the existing fill and natural sand and gravel can be reused as recommended in Section 3.1.3.

The contractor should avoid mixing the reusable soils with fine-grained and/or organic soils. The soils to be reused should be excavated and stockpiled separately for compliance testing. Soils with 20 percent or greater fines contents are generally very sensitive to moisture content variations and are susceptible to frost. Such soils are very difficult to compact at moisture contents that are much higher or much lower than the optimum moisture content determined from the laboratory compaction test. Therefore, strict moisture control should be implemented during the compaction of onsite soils with fines contents of 20 percent or greater. The contractor should be prepared to remove and replace such soils if pumping occurs.

If needed, the onsite material could be blended with imported rock and processed in a crusher to produce fill meeting the gradation requirements of the materials described in Section 4.3. Suitable imported material and amended/improved materials should be stockpiled separately from unimproved onsite soils.



Materials to be used as fill should first be tested for compliance with the applicable gradation specifications.

4.5 Groundwater Control Procedures

Based on the groundwater levels measured in our borings, we do not anticipate that major groundwater control procedures will be needed during construction. We anticipate that filtered sump pumps installed in a series of sump pump pits located at least 3 feet below the bottom of planned excavations may be sufficient to handle groundwater and surface runoff that may enter the excavation during wet weather. The contractor should be prepared to use multiple sump pumps to maintain a dry excavation during the removal of the existing fill.

The contractor should be permitted to employ whatever commonly accepted means and practices are necessary to maintain the groundwater level below the bottom of the excavation and to maintain a dry excavation during wet weather. Groundwater levels should be maintained at a minimum of 1 foot below the bottom of the excavations during construction. The placement of reinforcing steel or concrete in standing water should not be permitted.

To reduce the potential for sinkholes developing over sump pump pits after the sump pumps are removed, the crushed stone placed in the sump pump pits should be wrapped in a geotextile fabric. Alternatively, the crushed stone should be entirely removed after the sump pump is no longer in use, and the sump pump pit should be restored with suitable backfill.

4.6 Temporary Excavations

All excavations to receive human traffic should be constructed in accordance with OSHA guidelines.

The site soils should generally be considered Type "C" and should have a maximum allowable slope of 1.5 Horizontal to 1 Vertical (1.5H:1V) for excavations less than 20 feet deep. Deeper excavations, if needed, should have shoring designed by a professional engineer.

The contractor is solely responsible for designing and constructing stable, temporary excavations and should shore, slope, or bench the sides of the excavations as required to maintain the stability of the excavation sides and bottom.



Preliminary Geotechnical Report Proposed Clinton Middle School Clinton, Massachusetts LGCI Project No. 2341

5. FUTURE SERVICES

We recommend engaging LGCI to perform the additional services listed below:

- Additional explorations, including soil borings and test pits after the proposed building layout is finalized to further explore the thickness of the existing fill and buried organic soil;
- Prepare Earth Moving Specifications and review the geotechnical aspect of drawings;
- Review the geotechnical aspect of contractor RFIs and submittals; and
- Provide a field representative during construction to observe the subgrade of footings and slabs.



Preliminary Geotechnical Report Proposed Clinton Middle School Clinton, Massachusetts LGCI Project No. 2341

6. REPORT LIMITATIONS

Our analyses and recommendations are based on project information provided to us at the time of this report. If changes to the type, size, and location of the proposed structures or to the site grading are made, the recommendations contained in this report shall not be considered valid unless the changes are reviewed, and the conclusions and recommendations modified in writing by LGCI. LGCI cannot accept responsibility for designs based on our recommendations unless we are engaged to review the final plans and specifications to determine whether any changes in the project affect the validity of our recommendations, and whether our recommendations have been properly implemented in the design.

It is not part of our scope to perform a more detailed site history; therefore, we have not explored for or researched the locations of buried utilities or other structures in the area of the proposed construction. Our scope did not include environmental services or services related to moisture, mold, or other biological contaminants in or around the site.

The recommendations in this report are based in part on the data obtained from the subsurface explorations. The nature and extent of variations between explorations may not become evident until construction. If variations from anticipated conditions are encountered, it may be necessary to revise the recommendations in this report. We cannot accept responsibility for designs based on recommendations in this report unless we are engaged to 1) make site visits during construction to check that the subsurface conditions exposed during construction are in general conformance with our design assumptions and 2) ascertain that, in general, the work is being performed in compliance with the contract documents.

Our report has been prepared in accordance with generally accepted engineering practices and in accordance with the terms and conditions set forth in our agreement. No other warranty, expressed or implied, is made. This report has been prepared for the exclusive use of Lamoureux Pagano Associates for the Proposed Clinton Middle School in Clinton, Massachusetts as conceived at this time.



7. REFERENCES

In addition to the references included in the text of the report, we used the following references:

American Society of Civil Engineers, "Minimum Design Loads and Associated Criteria for Buildings and Other Structures," ASCE/SEI 7-16, 2017.

The Commonwealth of Massachusetts (2017), "The Massachusetts State Building Code, Ninth (9th) Edition."

The Department of Labor, Occupational Safety and Health Administration (1989), "Occupational Safety and Health Standards - Excavations; Final Rule," 20 CFR Part 1926, Subpart P.

USGS Clinton, MA topographic map from http://mapserver.mytopo.com.



Table 1 -Summary of LGCI's Borings
Proposed Clinton Middle School
Clinton, MA
LGCI Project No. 2341

Boring No.	Ground Surface Elevation (ft.) ¹	Groundwater ² Depth / El. (ft.)	Bottom of Topsoil Depth / El. (ft.)	Bottom of Fill Depth / El. (ft.)	Bottom of Sand and Gravel Depth / El. (ft.)	Bottom of Silt Depth / El. (ft.)	Bottom of Boring Depth / El. (ft.)
B-1	374.0	- / -	2.0 / 372.0	4.0 / 370.0	22.0 / 352.0	- / -	22.0 ³ / 352.0
B-2	375.0	- / -	0.7 / 374.3	2.0 / 373.0	22.0 / 353.0	- / -	22.0 ³ / 353.0
B-3	376.0	- / -	0.3 / 375.7	6.0 / 370.0	15.0 / 361.0	22.0 / 354.0	22.0 ⁴ / 354.0
B-4	377.0	- / -	2.0 / 375.0	10.0 ⁵ / 367.0	22.0 / 355.0	- / -	22.0 ³ / 355.0
B-5	375.0	- / -	2.0 / 373.0	6.0 / 369.0	22.0 / 353.0	- / -	22.0 / 353.0

 The ground surface elevation was interpolated to the nearest foot from drawing titled: "Existing Conditions Plan, Clinton Middle School, 100W Boyleston St, Clinton, MA 01510," prepared by Nitsch Engineering, Inc., dated June 22, 2023, and provided to LGCI by Lamoureux Pagano Associates via e-mail on September 26, 2023.

2. Groundwater was not encountered in the borings.

3. Boring terminated in the sand and gravel layer.

4. Boring terminated in the silt layer.

5. Layer of buried organic soil encountered within the fill layer between depths of 4.0 feet and 4.8 feet.

6. "-" means groundwater or layer was not encountered.





 Lamoureux Pagano Associates
 Proposed Clinton Middle School
 Figure 2 – Surficial Geologic Map

 Line
 Clinton, MA
 Line
 Date:



Appendix A – Logs of Previous Borings



Project / True North



3.1.4 EVALUATION OF EXISTING CONDITIONS

Feasibility Study PDP

INTRODUCTION

Below are the assembled logs for site borings taken in 1956, 1974, and 1996, in and around the footprints of the existing Clinton Middle School, and Clinton High School. Boring locations shown on 3.1.4.J site plan.



BORINGS LOG 1956





MSBA Module 3

Feasibility Study PDP

J.4 Test Borings

BORINGS LOG 1974







MSBA Module 3

3.1.4 EVALUATION OF EXISTING CONDITIONS

Feasibility Study PDP

J.4 Test Borings







MSBA Module 3

3.1.4 EVALUATION OF EXISTING CONDITIONS

Feasibility Study PDP

J.4 Test Borings

BORINGS LOG 1996

TABLE 1

SUMMARY OF SUBSURFACE CONDITIONS AT TEST BORINGS PROPOSED NEW HIGH SCHOOL BUILDING CLINTON, MASSACHUSETTS GSI Project No. 96194

Boring No.	Depth of Fill (ft)	Depth to Top of Organics (ft)	Depth to Sand Strata (ft)
B-3	20.5	20.5	25
B-4	13	13	14.5
B-7	13	13	20
B-8	16 (B.O.B)	NE	NE
B-8A	13	13	21
B-8B	7	7	16
B-8C	5	NE	5
B-9	3	3	8
B-13	7	NE	7
B-13A	12	NE	12
B-14	8	NE	8
B-14A	10.5	NE	10.5
B-15	7	NE	7
B-15A	6	NE	6
NB-B	12	12	15
NB-BA	11	11	16
NB-BB	6	6	8
NB-E	7	NE	. 7
NB-EA	11	NE	11

NOTES:

 Test borings B-1 through B-18 were drilled by Miller Engineering & Testing during July, 1996. Test borings B-8A,B,C, B-13A, B-14A, and B-15A were drilled by Environmental Drilling, Inc. during August, 1996 under the observation of Geotechnical Services, Inc.

2. NE means strata not encountered.

00200 - 17





Appendix B – LGCI's Boring Logs

Lahlaf Ge	otechn	C ical C	3(ting, Inc. 100 C Billeri Telep Fax:	Chelmsford F ica, MA 018 hone: 9783 978330505	Rd Suit 62 3305912 6	e 2 2	E	BOF	RING	LOG B-1 PAGE 1 OF 1
CLIENT:	Lam	oure	ux P	agano Associa	ates					PF	OJECT NAME: Prop. Clinton Middle School
LGCI PRO	OJEC	T NU	MBE	R : <u>2341</u>						PF	OJECT LOCATION: Clinton, MA
DATE ST	ARTE	D: _	9/25/	23	DATE C	OMPL	ETED:	9/2	25/23	3	DRILLING SUBCONTRACTOR: Soil Exploration Corp.
BORING	LOCA		N: _N	lear NW corne	er of prop	. build	ing				DRILLING FOREMAN: Edwin Fajardo
COORDI	NATE	S: _1	A								DRILLING METHOD: Hollow Stem Auger (4-1/4" I.D.)
SURFAC	E El.:	_374	1 ft.	(see note 1)		TOT	AL DEF	PTH:	_22	ft.	DRILL RIG TYPE/MODEL: _ Diedrich D-70 turbo
WEATHE	R : _6	0's /	Rain	у							HAMMER TYPE: _Automatic
	WAT	ER L	EVE	LS:							HAMMER WEIGHT: 140 lb. HAMMER DROP: 30 in.
⊥⊻ DU	RING	DRI		G: Not encou	Intered						SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>
TA 🚣 AT	END	OF D	RILL	ING: Dry at i	the end o	t drillir	ng				
<u>+</u> 01	HER:	-			1						
Dept (ft.)	Sample Interval (ft.)	Sar Nur	nple nber	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	Strata		<u>Depth</u> El.(ft.)		Material Description
	0	М					74	<u>- '/</u>		S1 - T	opsoil
\vdash + ·	-	IXI.	S1	3-2-2-4 (4)	24/16	Toj	osoil 💾	<u>_1 / /</u>			
L	2.	\square					. <u>\\</u>	<u>17 - xi</u>	2.0		
		M		14-28-46-49					572.0	S2 - S coarse	angular gravel, trace of organic soil, gray to brown, moist
	1	M	S2	(74)	24/19		111				
370.0	<u>0</u> 4·	$\left(\right)$					0	4	4.0 370.0	S3 - W	ell Graded GRAVEL with Silt and Sand (GW-GM) fine to coarse
5		V	63	33-52-60-39	24/11		0	0°		angula	r, 10-15% fines, 30-35% fine to coarse sand, gray, moist
		$ \Lambda $	33	(112)	24/11		0				
	6.	$\left(\right)$					0	0.0		S4 - P	porly Graded SAND with Silt and Gravel (SP-SM), fine to medium, 5-10%
<u> </u>	4	IVI.	S4	10-14-16-20	24/17		Po	D		fines, ⁻	15-20% fine to coarse subangular gravel, light brown, moist
		$ \rangle$		(30)			0) D L			
	8.					1					
365.0	2						0) C			
10	10-							0°			
		M		6-6-5-6			0) C		S5 - P	porly Graded SAND with Silt and Gravel (SP-SM), fine to medium, 5-10% IS-20% fine to coarse subangular gravel, light brown, moist
	1	X	S5	(11)	24/1		0	0°		,	
	12.	<u> </u>					0				
						San	and •	0.0			
]					Gr	avel	0			
	4						0	D C			
15	15							0		00 D	
		\mathbb{N}		4-4-6-8			。 <	c		56 - P	borly Graded SAND (SP), fine to medium, 0-5% fines, light brown, moist
	1	M	S6	(10)	24/16		D I	0°			
} <u>+</u> ·	17	<u> </u>				-	0	ັດ			
							0	٥°			
355.0							0				
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	20.						Po	0		67 D	aarly Craded SAND (SD) find to medium trace coerce 0.5% finds light
		V	67	5-4-5-7	24/15		0			brown,	moist
		$ \Lambda $	57	(9)	24/10		Po	0			
+ +	22	<u> </u>				1 -	C		22.0	Botton	of borehole at 22.0 feet. Borehole backfilled with drill cuttings.
┣ ╄ .	4										Ŭ
350.0											
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GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot from drawing titled: "Existing Conditions Plan, Clinton Middle School, 100W Boylston St, Clinton, MA 01510," prepared by Nitsch Engineering, Inc., dated June 22, 2023, and provided to LGCI by Lamoureux Pagano Associates via e-mail on September 26, 2023.

Lahlaf Geo	techn	(G Consul	ting, Inc. 100 C Billeri Telep Fax:	Chelmsford ca, MA 018 hone: 9783 978330505	Rd Suite 2 362 3305912 6	BOF	PAGE 1 OF) 1
	Lam	ioure T NI	eux Pa J MBE	agano Associa R: 2341	ates			PROJECT NAME: Prop. Clinton Middle School PROJECT LOCATION: Clinton. MA	
DATE STARTED: 9/25/23 DATE COMPLETED: 9/25/23 BORING LOCATION: Near NE corner of prop. building COORDINATES: NA SURFACE EI.: 375 ft. (see note 1) TOTAL DEPTH: 22 ft. WEATHER: 60's / Rainy GROUNDWATER LEVELS: ✓ DURING DRILLING: Not encountered ✓ AT END OF DRILLING: Dry at the end of drilling ✓ OTHER: -								23 DRILLING SUBCONTRACTOR: Soil Exploration Corp. 23 DRILLING FOREMAN: Edwin Fajardo 24 DRILLING FOREMAN: Edwin Fajardo 25 DRILLING METHOD: Hollow Stem Auger (4-1/4" I.D.) 26 DRILL RIG TYPE/MODEL: Diedrich D-70 turbo 27 HAMMER TYPE: Automatic 27 HAMMER WEIGHT: 140 lb. 28 SPLIT SPOON DIA: 1.375 in. I.D., 2 in. O.D. 29 CORE BARREL SIZE: NA 20 LOGGED BY: TG	
Depth (ff.) (ff.)	Sample Interval (ft.)	Sa Nu	mple mber	Blow Counts (N Value)	Pen./Rec. (in.)	¥ema Strata Ƴ	Depth El.(ft.)	h .)	
	0	M	S1	3-15-18-28 (33)	24/16	Topsoil Image: Constraint of the second se	0.7 374.3	S1 - Top 8": Topsoil Bot. 8": Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, ~10% fines, 20-25% fine to coarse subangular gravel, brown, moist	, D
	2.	M	S2	24-26-32-32 (58)	24/18		373.0	S2 - Well Graded SAND with Silt and Gravel (SW-SM), fine to coarse, 5-10% fines, 40-45% fine to coarse subangular gravel, brown, moist	
5 370.0	4	M	S3	30-31-29-25 (60)	24/8			S3 - Well Graded SAND with Gravel (SW), fine to coarse, 0-5% fines, 20-25% fine to coarse subangular gravel, brown, moist	
	8-	M	S4	23-24-25-22 (49)	24/17		-	S4 - Well Graded SAND with Gravel (SW), fine to coarse, 0-5% fines, 30-35% fine to coarse subangular gravel, brown, moist	
10 365.0 	· 10·	М	S5	6-6-8-9 (14)	24/12	Sand and O C	-	S5 - Well Graded SAND with Gravel (SW), fine to coarse, 0-5% fines, 25-30% fine to coarse subangular gravel, brown, moist	
 _ <u>15 360.0</u> 	15.	М	S6	8-13-21-16 (34)	24/7			S6 - Well Graded SAND with Gravel (SW), fine to coarse, 0-5% fines, 30-35% fine to coarse subangular gravel, brown, moist	
 20 355.0 	20-	М	S7	12-13-11-12 (24)	24/13		22.0	S7 - Well Graded SAND with Gravel (SW), fine to coarse, 0-5% fines, 20-25% fine to coarse subangular gravel, brown, moist	
 25 350.0								g.	

GENERAL NOTES:

1. The ground surface elevation was interpolated to the nearest foot from drawing titled: "Existing Conditions Plan, Clinton Middle School, 100W Boylston St, Clinton, MA 01510," prepared by Nitsch Engineering, Inc., dated June 22, 2023, and provided to LGCI by Lamoureux Pagano Associates via e-mail on September 26, 2023.

Lahlaf Geo	techn		GConsul	ting, Inc. 100 C Billeri Telep Fax:	Chelmsford R ica, MA 0186 phone: 97833 9783305056	Rd Suite 2 52 305912 5	2	BOI	RING	LOG	B-3 PAGE 1 OF 1
CLIENT:	Lam	our	eux Pa	agano Associa	ates				PR	COJECT NAME: Prop. Clinton Middle School	
LGCI PRO	JEC	ΤN	UMBE	R: 2341					PR	OJECT LOCATION: Clinton, MA	
DATE STA	ARTE	D:	9/25/	23	DATE C	OMPLE	TED: _9	9/25/23	3	DRILLING SUBCONTRACTOR: Soil Exploration Corp.	
BORING L	.OCA	TIC	N: <u></u>	lear SW corne	er of prop.	buildin	g			DRILLING FOREMAN: Edwin Fajardo	
COORDIN	COORDINATES: NA									DRILLING METHOD: Hollow Stem Auger (4-1/4" I.D.)	
SURFACE	EI.:	37	'6 ft.	(see note 1)		TOTA		l : _22	ft.	DRILL RIG TYPE/MODEL: Diedrich D-70 turbo	
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		בא ו חפ		L 3 : C: Notencou	intered					SPLIT SPOON DIA : 1 375 in LD 2 in OD	<u> </u>
				ING: Dry at	the end of	drilling				CORE BARREL SIZE: NA	
отн	IER:	-				unnig				LOGGED BY: TG CHECKED BY: JI	KW
EI.	mple val (f	Sa	mple	Blow Counts	Pen./Rec.	ark S	Strata			Material Description	
۵ ^(π.)	Sa		mber	(in value)	(in.)	Rer		Depth El.(ft.)			
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		X	S1	(11)	24/18				angula	r gravel, trace of organic soil, orange brown to dark brown	, moist
+ + -	2.	$\left(\right)$							S2 - Si	milar to S1 Bot 15"	
		M	S2	8-9-6-5	24/17	E.11			02 01		
			02	(15)	2.0.11	Fill					
	4.	M							S3 - Po	oorly Graded with Silt (SP-SM), fine, 10-15% fines, brown,	, moist
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		16	. س								

 The ground surface elevation was interpolated to the nearest foot from drawing titled: "Existing Conditions Plan, Clinton Middle School, 100W Boylston St, Clinton, MA 01510," prepared by Nitsch Engineering, Inc., dated June 22, 2023, and provided to LGCI by Lamoureux Pagano Associates via e-mail on September 26, 2023.
Lahlaf Geo	otechn	(G Consul	Lting, Inc. 100 C Billeri Telep Fax:	Chelmsford ica, MA 01 hone: 978 97833050	Rd 862 3330 56	Suite 2)5912	E	30F	RING	LOG	B-4 PAGE 1 OF 1
CLIENT:	Lam	our	eux P	agano Associa	ates					PR	COJECT NAME: Prop. Clinton Middle School	
LGCI PRO	LGCI PROJECT NUMBER: 2341 Pl								PR	ROJECT LOCATION: Clinton, MA		
DATE ST	ARTE	D:	9/25/	/23	DATE	col	MPLETE	D : 9	/25/23	3	DRILLING SUBCONTRACTOR: Soil Exploration Corp.	
BORING I	BORING LOCATION: Near SE corner of prop. building								DRILLING FOREMAN: Edwin Fajardo			
COORDIN	COORDINATES: NA								DRILLING METHOD: Hollow Stem Auger (4-1/4" I.D.)			
SURFACE	EEI.:	_37	7 ft.	(see note 1)		T		DEPTH	l: <u>22</u>	ft.	DRILL RIG TYPE/MODEL: Diedrich D-70 turbo	
WEATHEI	R : _6	0's /	/ Rain	ıy							HAMMER TYPE: Automatic	
	WAT	ERI	LEVE	LS:							HAMMER WEIGHT: 140 lb. HAMMER DROP:	_30 in
	RING	DR		G: Not encou	intered						SPLIT SPOON DIA.: <u>1.375 in. I.D., 2 in. O.D.</u>	
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	2	6)						11	2.0 375.0	S2 - Si	Ity SAND with Gravel (SM), fine to coarse, 15-20% fines,	15-20% fine to
	-	IXI	S2	7-8-6-7	24/12		Fill			coarse	subangular gravel, gray, moist	
	4	\mathbb{N}		(11)					4.0			
_5		M	S3	10-14-16-13 (30)	24/19		Buried Organic Soil		373.0 4.8 372.2	S3 - To subano moist	op 10": Silty SAND (SM), fine to medium, 25-30% fines, 0 gular gravel, trace of wood, trace of roots, trace of organic	-5% fine soil, brown,
	6	$\left(\right)$								coarse	subangular gravel, brown, moist	es, U-5% fine to
370.0		W	S4	15-24-18-22	24/15				1	S4 - Si trace o	lty SAND (SM), fine to medium, 15-20% fines, 5-10% fine f organic soil. dark brown. moist	angular gravel,
			01	(42)	21/10		Fill				3 <i>i i</i>	
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	16	ĮΝ					Sand and	• () •				
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 The ground surface elevation was interpolated to the nearest foot from drawing titled: "Existing Conditions Plan, Clinton Middle School, 100W Boylston St, Clinton, MA 01510," prepared by Nitsch Engineering, Inc., dated June 22, 2023, and provided to LGCI by Lamoureux Pagano Associates via e-mail on September 26, 2023.

Lahlaf Geo	otechn		G (Consul	Ling, Inc. 100 C Billeri Telep Fax:	Chelmsford I ca, MA 018 hone: 9783 978330505	Rd Suite 2 62 3305912 6	2	BOF	NG LOG	B-5 PAGE 1 OF 1
	Lam	our	eux Pa	agano Associa	ates				PROJECT NAME: Prop. Clinton Middle School	ol
LGCI PROJECT NUMBER: 2341 Pf DATE STARTED: 9/25/23 DATE COMPLETED: 9/25/23 BORING LOCATION: Near center of prop. building 000000000000000000000000000000000000									PROJECT LOCATION: <u>Clinton, MA</u> DRILLING SUBCONTRACTOR: <u>Soil Expl</u> DRILLING FOREMAN: <u>Edwin Fajardo</u> DRILLING METHOD: <u>Hollow Stem Auger</u> DRILL RIG TYPE/MODEL: <u>Diedrich D-70</u> HAMMER TYPE: <u>Automatic</u> HAMMER WEIGHT: <u>140 lb.</u> HAM SPLIT SPOON DIA: <u>1.375 in. 1.D., 2 in. C</u>	oration Corp. (4-1/4" I.D.) turbo MER DROP: _30 in. D.D.
_ <u>∓</u> АГ <u>⊉</u> ОТН	END IER:		DRILL	ING: Dry at	ine end o	t arilling			LOGGED BY: TG CHE	CKED BY: JKW
Depth (ft.)	Sample Interval (ft.)	Sa Nu	ample umber	Blow Counts (N Value)	Pen./Rec. (in.)	Remark	itrata	Depth El.(ft.)	Material Description	
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5 370.0		M	S3	8-9-27-39 (36)	24/21			6.0	3 - Silty SAND with Gravel (SM), fine to coarse, 2 ubangular gravel, trace of organic soil, dark brown	.0-25% fines, 15-20% fine ۱, moist
		M	S4	34-25-22-16 (47)	24/17			369.0	4 - Well Graded GRAVEL with Sand (GW), fine to nes, 25-30% fine to coarse sand, gray, moist	ວ coarse, angular, 0-5%
10 365.0	10	M	S5	11-11-10-11 (21)	24/8		· 0 °	_	5 - Well Graded SAND (SW), fine to coarse, 0-59 ravel, brown, moist	6 fines, 10-15% fine angular
	12-	X	S6	9-14-13-11 (27)	24/8	Sanda			6 - Well Graded SAND with Silt and Gravel (SW- nes, 20-25% fine to coarse subangular gravel, bro	SM), fine to coarse, 5-10% wn, moist
	· 15·	М	S7	6-6-6-9 (12)	24/14	Grav			7 - Well Graded SAND with Silt and Gravel (SW- nes, 20-25% fine to coarse subangular gravel, bro	SM), fine to coarse, 5-10% own, moist
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Appendix C – Laboratory Test Results





4.1.2 SCHEMATIC DESIGN BINDER

- F. Code Analysis
 - 1. Code Analysis Narrative
 - 2. Code Report
 - 3. Permitting Requirements

LPAA contracted consultant RW Sullivan to prepare a Code Assessment of the Schematic Design for the project which is included in the following section of this binder.

LPA|A scheduled meetings with the Fire, Police, and Building Departments to review the code analysis and plans at the Schematic Design phase and will continue to hold meetings with the relevant departments though the Design Development and Construction Document phases. Minutes of the meetings that have already occurred are published under 4.1.2, B.

Code drawings are printed with the Architectural Drawings.

See the following Code Assessment and Permitting Matrix for further information.





RWS

Code

•

HVAC

•

Electrical

.

Plumbing

Fire Protection

Commissioning

Clinton, Massachusetts

Code Report

November 6, 2023

Prepared By: Samantha Sinapi, P.E. **Reviewed By:** Donald E. Contois, P.E.

Sullivan Code Group R.W. Sullivan Engineering 617.523.8227 www.rwsullivan.com

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Introduction

This project includes the construction of a new middle school building in Clinton, MA. This code summary is based on the schematic design architectural drawings received October 30, 2023. The following is a list of applicable codes:

Code Type	Applicable Code (Model Code Basis)
Building	780 CMR: Massachusetts State Building Code, 9th Edition (Amended 2015 International Building Code (IBC))
Fire Prevention	527 CMR 1: Massachusetts Fire Prevention Regulations (Amended 2021 NFPA 1) M.G.L. Chapter 148 Section 26G – Sprinkler Protection
Accessibility	521 CMR: Massachusetts Architectural Access Board Regulations
Electrical	527 CMR 12: Massachusetts Electrical Code (Amended 2023 National Electrical Code)
Elevators	524 CMR: Massachusetts Elevator Code (Amended 2013 ASME A17.1)
Mechanical	2015 International Mechanical Code (IMC)
Plumbing	248 CMR: Massachusetts Plumbing Code
Energy Conservation	225 CMR 23: Massachusetts Stretch Energy Code (Amended 2021 International Energy Conservation Code (IECC))

1. Occupancy Classification:

Non-separated mixed uses

- Use Group A-3 (Gymnasium)
- Use Group E (Educational)
- Accessory Use Group B (Offices)

For the purposes of this report, we have assumed that the Cafeteria/Auditorium are considered part of the Use Group E occupancy. However, the Gymnasium could be used for non-school events and therefore must also be classified as a Use Group A-3 Occupancy (780 CMR 303.1.3).

Note that this building contains hazardous materials. The hazardous materials will be maintained below the exempt limits per the control area, and therefore there is no Use Group H within the building (780 CMR 307.1, 414). The building will be one control area. Since there are science labs throughout the building, the following table, based on 780 CMR Table 414.2.2, shows the % of the maximum allowable quantity permitted on each floor. In addition, the combination of all floors cannot go over 100% the maximum allowable quantities from 780 CMR Table 307.1(1).

Floor	Percentage of the Maximum Allowable Quantity
Ground Floor	100%
Level 2	50%
Overall Building	100%

RWS

2. Min. Construction Type:

• Type IB Construction (noncombustible, 2-hr rated)

3. Height and Area Limitations:

The following table summarizes the height and area limitations for the most restrictive use (Use Group E) based on Type IB construction:

Codo Boforonco	Use Group E		
	Height	Area	
780 CMR Tables 504.3, 504.4 & 506.2:	6 St (190 ft)	1.11	
Tabular Value	0.31. (100 11)	UL	
780 CMR Section 506.2			
Frontage Increase	-	-	
Allowed Height and Area	6 St. (180 ft)	UL	
Actual Height and Area	2 St.	~82,271 ft ²	

4. Fire Department Access:

All newly constructed facilities, buildings, or portions thereof are required to be provided with a fire department access road which may consist of roadways, fire lanes, parking lot lanes, or some combination thereof (527 CMR 1 Section 18.2.3.1). These access roads must have the following features,

- Must extend to within 50' of an exterior door that can be opened from the outside and provide access to the interior of the building
- No portion of the facility or exterior wall on the first story of a building is greater than 150' from fire department access roads measured along an approved route (250' if protected by NFPA 13 sprinkler system)
- Multiple access roads can be required by the AHJ if it is determined that a single road can be significantly impaired by external factors
- Unobstructed minimum width of 20' unless constructed boulevardstyle which a 10' minimum width is permitted
- Unobstructed vertical clearance of 13'-6"

If access roads cannot be provided due to location, topography, waterways, etc. the AHJ has the authority to require additional fire protection features (527 CMR 1 Section 18.2.3.1.4).

The building will be provided on driveways on all sides that provide the required fire department access.

RWS

5. Fire Resistance Ratings:

The following fire resistance ratings are required in accordance with 780 CMR Table 601 and various sections of the code.

Building Element	Fire Resistance Rating (Hrs)
Primary Structural Frame ^A	2 ^{B,C}
Exterior Bearing Walls	2
Interior Bearing Walls	2 ^{B,C}
Exterior Non-Bearing Walls	Based on FSD
Interior Non-Bearing Walls	0
Floor Construction	2 ^C
Roof Construction	1 ^D

^{A.} Includes beams, trusses, floor members, etc. having a direct connection to the columns (780 CMR 202).

^{B.} Fire resistance ratings of structural frame and bearing walls are permitted to be reduced by one hour but not less than 1 hour rated where supporting a roof only (780 CMR Table 601).

^{c.} Not less than the rating supported (780 CMR 707.5.1, 708.4. and 711.2.3).

D. Fire protection of structural members shall not be required, including protection of roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Note that this exception does not apply to the structural members that are considered part of the primary structural frame as defined by 780 CMR 202.

Building	Element	Fire Resistance Rating (Hrs)	Opening Protectives (Hrs)	
Exit Access Corridors (7	780 CMR 1020.1)	0	0	
Stair Shafts (780 CMR	1023.2) ^A	2	1½	
Other Shafts (780 CMR	713.4)	2	1½	
Elevator Machine Room	n (780 CMR 3005.4)	2	1½	
Emergency Electrical R 700-10(D)(2))	oom (527 CMR 12.00	2 ^B	11⁄2	
Emergency Generator F Installation (NFPA 110	Room – Level 1 Section 7.2.1.1)	2	11⁄2	
Flastriant Classic	With Sprinklers	0		
Electrical Closets	Without Sprinklers	2		
Fuel Oil Storage > 660	gallons	2	1½	
Furnace room where ar is over 400,000 Btu per	ny piece of equipment hour input	Smoke resistant ^c		
Rooms with boilers whe equipment is over 15 ps	ere the largest piece of si and 10 horsepower	Smoke resistant ^c		
Laboratories and vocati	onal shops	Smoke re	esistant ^c	
Fire pump room (780 C	MR 913.2.1)	1 ho	ur ^D	

- A. If exterior walls expose the stair at an angle of less than 180 degrees either the stair wall or adjacent wall must be 1 hour rated with 3/4 hour opening protectives for a distance of 10 feet from the stair wall (780 CMR Section 1023.7).
- B. No rating is required for the room when fully sprinklered, however a 2-hr rating is still required for the emergency feeder-circuit wiring and rooms containing an emergency generator (NFPA 110 Section 7.2.1.1).
- C. Where smoke resistant construction and automatic fire-extinguishing system are permitted, accessory occupancies shall be separated from the remainder of the building by construction capable of resisting the passage of smoke and doors shall be self- or automatic-closing upon detection of smoke.
- ^{D.} Location and access to the fire pump room shall be pre-planned with the fire department. The room must be directly accessed from the exterior or through a 1 hour fire resistance rated passageway that connects to the exterior (NFPA 20 Section 5.12.1.1.3).

Fire walls, fire barriers, fire partitions, smoke barriers, and smoke partitions, or any other wall required to have protected openings or penetrations must be identified with signs or stenciling within accessible concealed spaces (i.e. floorceiling, attic spaces) at 30 ft intervals with at least 3" letters stating: "FIRE AND/OR SMOKE BARRIER – PROTECT ALL OPENINGS" or similar wording (780 CMR 703.7).

6. Stages/Platform

Performance area in the cafeteria/auditorium that do not contain any overhead effects other than lighting, it would be classified as a platform. If there is overhead effects then the performance area must be considered a stage.

Platform:

The platform area must comply with 780 CMR 410.4. The following requirements must be meet.

- Platforms shall be constructed of noncombustible materials as is required for the type of construction of the building, Type IB Construction.
- Platforms in construction Type I buildings that are no more than 30 inches above the floor and not more than 3,000 square feet in area can be made of fire retardant treated wood.
- The bottom of the platform shall be rated 1 hour if the space underneath the platform is used for storage or any other purpose other than equipment, wiring, or plumbing.
- Spaces beneath the platform is not required to be protected if it is only used for equipment, wiring, or plumbing.

Stage:

The stage area must comply with 780 CMR 410. The following requirements must be meet.

- Stages must be constructed of materials as required for floors for the type of construction of the building, except where the finished floor is constructed of wood or approved non-combustible materials and openings through stage floors shall be equipped with tight-fitting, solid wood trap doors with approved safety locks (780 CMR 410.3.1 Exception 3).
- Galleries, gridirons, and catwalks shall be constructed of approved materials consistent with the requirements of the type of construction of the building (780 CMR 410.3.2).
- Stages that are greater than 50 feet in height shall have a proscenium wall, with a fire resistance rating not less than 2 hours, separating the stage from the seating area (780 CMR 410.3.4).
- Where a proscenium wall is required a 1 hour fire resistance rated curtain complying with NFPA 80 or approved water curtain complying with 780 CMR 903.3.1.1, or a smoke control system complying with 90 (780 CMR 410.3.5).
- Combustible materials used for sets and scenery shall meet NFPA 701 fire propagation performance criteria (780 CMR 410.3.6).
- Emergency ventilation shall be provided for stages that are greater than 1,000 sqft or greater than 50 ft in height and follow one of the below (780 CMR 410.3.7).
 - Two or more heat activated roof vents with aggregate opening of not less than 5% of stage area.
 - Smoke control system that maintains a smoke layer interface not less than 6 feet above the highest level of the assembly seating.
- Stage shall be separated from other parts of the building including dressing rooms and scene docks by 1 hour-rated construction (2 hour for stages greater than 50 feet) (780 CMR 410.5.1).
- Appurtenant rooms to the stage, such as dressing rooms, scene shop, and storerooms, must be separated by 1 hour-rated construction for each other (780 CMR 410.5.2).
- Exit access doors on each side of the stage must be provided (780 CMR 410.6.1)

7. Exterior Wall Openings & Fire Resistance Rating:

The exterior wall rating requirements and opening limitations are based on the fire separation distance for each wall. The fire separation distance is measured perpendicular to the exterior wall to the centerline of a public street, an interior lot line, or an imaginary lot line between two buildings on the same lot (780 CMR 202.0). Since the fire separation distance is more than 20 ft the exterior walls are not required to be rated and the allowable area of openings is not limited (780 CMR Table 602 note g and Table 705.8).

8. Vertical Floor Openings

Vertical openings are required to comply with 780 CMR 712. The building contains many floor openings that are enclosed in 2 hour fire resistance rated shafts including the stairs, elevators, and mechanical chases.

Unprotected floor openings that connect the 1st and 2nd Floor of the building, including the open stair are allowed per 712.1.9 and 1019.3(1).

Other stairs can be open as long as the means of egress on the second floor can meet the travel distance when including the travel down the stairs to outside. Based on the size of the school most of the enclosed stairs will have to be maintained as exit stairs and cannot become exit access stairs.

9. Finishes:

Interior Finish

The interior finish of walls and ceilings must comply with the table below.

Building Component	Use Group A-3	Use Group B & E				
Exit Enclosures and Passageways	Class B	Class B				
Corridors	Class B	Class C				
Rooms & Enclosed Spaces	Class C	Class C				

Walls & Ceilings (IBC Table 803.11)

Note that where exit stairs and exit access corridors serve all use groups, the most restrictive interior finish is required.

New Floor Finishes

Since the building will be equipped with an automatic sprinkler system, traditional floor coverings such as wood, vinyl and other resilient floor coverings as well as carpeting passing the DOC FF-1 pill test are allowed throughout the building, including all exits, exit passageways and exit access corridors (780 CMR Section 804.4.2).

Exterior Finish

Exterior wall finishes must fully comply with the requirements of 780 CMR 14. Combustible materials are permitted to be used as an exterior wall finish for this building in accordance with 780 CMR Section 1406.0; however, all exterior wall finishes and architectural trim located greater than 40 feet above grade plane must be constructed of approved noncombustible materials and must be secured to the wall with metal or other approved noncombustible brackets (780 CMR Section 1406.2.2). Additionally, combustible exterior wall finish is limited to 10% of the exterior wall surface area where the fire separation distance is 5 ft or less.

Clinton Middle School November 6, 2023 Page 7

The use of foam plastic materials as part of the exterior wall assembly must comply with 780 CMR 26. The wall assembly must be tested in accordance with NFPA 285 (780 CMR 2603.5.5). Note that this test standard is a full scale assembly test. We recommend confirming with the manufacturer that the foam plastic insulation is part of an approved NFPA 285 assembly or complies with one of the alternative standards listed in 780 CMR Section 2604.1.

10. Means of Egress:

The calculated occupant load for the proposed floor plans, the corresponding required number of exits, the provided number of exits, and the provided egress capacity are summarized below (780 CMR Table 1004.1.2, Table 1006.3.1, and Section 1005.3). See Appendix A of this report for detailed egress calculations.

Means of Egress

Floor	Occurrentland	Number	of Exits	Exit Capacity
FIOOr	Occupant Load	Required	Provided	(persons)
1	2,085	4	6	2,380
2	1,034	4	5	1,100

As shown in the table above and detailed egress analysis in Appendix A, the building is provided with sufficient exit capacity for the proposed occupant load.

General Egress Requirements:

• The required maximum exit travel distances for a fully sprinklered building are listed below (780 CMR Table 1017.2, Table 1006.2.1, and 1020.4).

Occupancy	Exit Travel Distance	Common Path of Travel	Dead-End
E	250 ft.	75 ft.	50 ft.
A-3	250 ft.	75 ft.	20 ft.
В	300 ft.	100 ft.	50 ft.

- Maximum dead-end corridor length cannot exceed the value above or 2.5 times the least width of space (780 CMR 1020.4).
- All rooms or spaces with an occupant load greater than 49 people or a travel distance greater than the value in the table above must be provided with two egress doors swinging in the direction of egress and illuminated exit signs at each exit (780 CMR Table 1006.2.1 & Sections 1010.1.2.1 & 1013.1).
- Boiler rooms require two means of egress if the room is greater than 500 sqft. and includes individual fuel-fired equipment greater than 400,000 Btuh input capacity. Also, one of the two required exit access doorways is permitted to be a fixed ladder or alternating tread device (780 CMR Section 1006.2.2.1).

RWS

- Doors serving more than 49 people in group E and A occupancies must swing in the direction of egress and be provided with panic hardware (780 CMR 1010.1.10).
- Main electrical rooms must be provided with 2 means of egress via doors that swing in the direction of egress with panic hardware when containing large equipment (rated 1200 amperes or more and over 6' wide) (NFPA 70 Section 110.26(C)(2 & 3)).
- All means of egress lighting and exit signs throughout the building must be provided with an emergency power supply to assure continued illumination for not less than 1.5 hours in case of primary power loss (780 CMR 1008.2 & 1008.3.4). Exit signs leading to accessible exits must include the international symbol of accessibility on the first floor (521 CMR 41.1.3).
- Remote means of egress must be separated by ¹/₃ of the diagonal dimension of the room or space they serve (780 CMR 1007.1.1). The distance between exits must be measured in a straight line between exit doors / paths.
- Roofs and penthouses containing elevator equipment that must be accessed for maintenance are required to be accessed by a stairway (780 CMR 1011.12.1). Permanent means of access to any roof containing mechanical equipment must be provided in accordance with the Mechanical Code.
- All exits must discharge to the exterior of the building except that a maximum of 50% of the number and capacity of the exit enclosures are allowed to exit through areas on the level of discharge if the exit enclosures discharge to a free and unobstructed path of travel to an exterior exit that is readily visible from the discharge of the exit enclosure; the entire area of the level of exit discharge is separated from areas below by construction consistent with the rating of the exit enclosure; and the egress path and all areas open to the egress path on the level of exit discharge must be fully sprinklered (780 CMR 1028.1).
- A two-way communication system is required at each elevator landing on accessible floors that are one or more stories above or below the level of exit discharge (780 CMR 1009.8).
- At least one passenger elevator must be sized to accommodate the loading and transportation of an ambulance gurney or stretcher sized 24" wide by 84" long with 5" radius corners (524 CMR 17.40(1)).

11. Required Fire Protection Systems:

- NFPA 13 sprinkler system (780 CMR Table 903.2 & M.G.L. c148 s26G)
- Fire alarm system with emergency voice/alarm communication capabilities (780 CMR 907.2.3)

- Emergency responder radio coverage (780 CMR 916)
- Carbon monoxide detection in accordance with 780 CMR 915 and 527 CMR 1 chapter 13.
- Fire extinguishers (780 CMR 906.1)

12. Energy Code Provisions

The project is subject to the Stretch Code with amendments to 2021 international Energy Conservation Code. The building will have an area over 20,000 square feet and it is assumed it will have an average ventilation less than 0.5 cfm/sf and therefore must comply with the Targeted Performance Compliance Method or the Passive House Compliance Method.

13. Accessibility for Persons with Disabilities

Massachusetts Architectural Access Board Regulations

All areas open to the general public are required to comply with the requirements of the Massachusetts Architectural Access Board (521 CMR). This section includes the following major provisions:

- All public entrances must be accessible (521 CMR 25.1).
- All public and common use areas must be accessible and provided with an accessible route thereto (521 CMR Section 12.2.2 and 20.1).
- Accessible toilet rooms must be provided (521 CMR 30.1).
- Where tables, study carrels, computer workstations or fixed seating is provided at least 5% with a minimum of one of each item must be accessible (521 CMR Section 12.2.2).
- The auditorium and gymnasium must be provided with integral accessible seating in multiple locations as well as other features such as assistive listening in accordance with 521 CMR Chapter 14.
- An accessible route must be provided to the platform located in the Multipurpose Room (521 CMR 14.6).

American's with Disabilities Act

The ADA Guidelines are not enforced by the Commonwealth of Massachusetts, they can only be enforced through a civil lawsuit or complaint filed with the U.S. Department of Justice. All public and common use areas must be accessible.

Although the provisions of the MAAB do not apply to employee only areas, the ADAAG requires that employee only work spaces must be designed to allow employees to approach, enter, and exit the work area. However, the work areas are not required be provided with accessible features (i.e. shelves, etc.).

Clinton Middle School November 6, 2023 Page 10

APPENDIX A: Egress Plans



R. W. Sullivan Engineering HVAC . Electrical . Plumbing . Fire Protection . Code The Schraft Center, 529 Main St., Suite 203 Boston, Massachusetts 02129-1107 Phone: (617) 523-8227 Fax: (617) 523-8016 www.rwsullivan.com RWS JOB # **230031**

Project: Clinton Middle School

Date: November 6, 2023

Scale: N.T.S.

Occupant Load Level 1

العم	Floor Area	Floor Area Per Occupant (SE / OCC)	Occupant Load
030	416 SE	50	8.3
∟ od	1454 SE	20	72.7
nd Broo	202 85	50	60
	302 SF	30	0.0
	249 3F	3	04.0
eteria	7057 SF	15	470.5
ssroom	9695 SF	20	484.8
lab	841 SF	50	16.8
nference	366 SF	15	24.4
nnasium	6780 SF	50	135.6
ustrial Arts	1103 SF	50	22.1
chen	2162 SF	200	10.8
Science	1132 SF	50	22.6
ker Room	2274 SF	50	45.5
ker Space	911 SF	50	18.2
dia	3497 SF	50	69.9
ce	5439 SF	100	54.4
/PT	800 SF	50	16.0
p	1127 SF	100	264.9
source	444 SF	50	8.9
ootics Lab	1220 SF	50	24.4
ence	3629 SF	50	72.6
all Group	874 SF	50	17.5
ed	2525 SF	50	50.5
ff Dining	273 SF	15	18.2
rage/Mechanical	5680 SF	300	18.9
acher Workroom	376 SF	15	25.0
iting	310 SF	15	20.7
	60936 SF	· ·	2084.2

Exit Capacity Level 1 (780 CMR 1005.3)

Stair Exit Allowance (in / person)	Stair Capacity (persons)	Door Width	Door Exit Allowance (in / person)	Door Capacity (persons)	Exit Capacity (persons)
		136"	0.2	680	680
		68"	0.2	340	340
		68"	0.2	340	340
		68"	0.2	340	340
		68"	0.2	340	340
		68"	0.2	340	340
					0000

2380

Occupan	Occupant Load Densities (780 CMR TABLE 1004.1.2)				
cupants	Actual Number of Occupants				
=. / Occ.	Assembly without Fixed Seats - Unconcentrated (Tables and Chairs)				
=. / Occ.	Classrooms				
. / Occ.	Educational - Shops and Laboratories				
S.F. / Occ.	Exercise and Fitness Areas; Locker Rooms				
S.F. / Occ.	Office Areas				
S.F. / Occ.	Kitchen				
S.F. / Occ.	Storage / Mechanical				

Level 1 Egress



www.rwsullivan.com RWS JOB # **230031**

Project: Clinton Middle School

Date: November 6, 2023 Scale: N.T.S.

Occupant Load Level 2

Use	Floor Area	Floor Area Per Occupant (SF / OCC)	Occupant Load
	2260 SF	50	45.2
oom	14516 SF	20	725.8
)	1582 SF	50	31.6
rence	377 SF	15	25.1
	1139 SF	100	11.4
irce	1755 SF	50	35.1
Group	1414 SF	50	28.3
	4815 SF	50	96.3
je/Mechanical	3445 SF	300	11.5
er Workroom	353 SF	15	23.6
	31657 SF		1033.9

Exit Capacity Level 2 (780 CMR 1005.3)

Stair Exit Ilowance (in / person)	Stair Capacity (persons)	Door Width	Door Exit Allowance (in / person)	Door Capacity (persons)	Exit Capacity (persons)
0.3	220	68"	0.2	340	220
0.3	220	68"	0.2	340	220
0.3	220	68"	0.2	340	220
0.3	220	68"	0.2	340	220
0.3	220				220
					1100

Occupant Load Densities (780 CMR TABLE 1004.1.2)				
al Occupants Actual Number of Occupants				
et S.F. / Occ.	Assembly without Fixed Seats - Unconcentrated (Tables and Chairs)			
et S.F. / Occ.	Classrooms			
et S.F. / Occ.	Educational - Shops and Laboratories			
ross S.F. / Occ.	Exercise and Fitness Areas; Locker Rooms			
Gross S.F. / Occ.	Office Areas			
Gross S.F. / Occ.	Kitchen			
Gross S.F. / Occ.	Storage / Mechanical			

Level 2 Egress



	LPA A
L A A S S O C I A	M O U R EU X PA G A N O T E S A R C H I T E C T S 108 Grove Street, Suite 300 Worcester MA 01605 508.752.2831 www.lpaa.com
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	OWNER
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Copyright © LPA|A

GENERAL NOTES: FLOOR PLANS
FIRE RATED PARTITION

MILLWORK AND/OR CASEWORK ITEM

NOTES: 1. REFER TO DRAWING A1.1 FOR PARTITION TYPES 2. REFER TO DRAWING A11.2, A11.3, A11.4 FOR FLOOR FINISH TYPES, PATTERNS AND DETAILS.



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	Key Plar
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FILE: JOB NO: SCALE: DWN. BY: CKD. BY: DATE:	#1605 1/16" = 1'-0 Autho Checke August 26, 2023

GENE	RAL NOTES: FLOOR PLANS
	FIRE RATED PARTITION
	MILLWORK AND/OR CASEWORK ITEM

 REFER TO DRAWING A1.1 FOR PARTITION TYPES
 REFER TO DRAWING A11.2, A11.3, A11.4 FOR FLOOR FINISH TYPES, PATTERNS AND DETAILS.

NOTES:

MSBA Module 4

Schematic Design

4.1.2 SCHEMATIC DESIGN BINDER

F. Code Analysis 3. Permitting Requirements

#	AGENCY	PERMIT/ISSUE	COMMENTS	STATUS	FEE
1	Massachusetts DEP/Worcester Conservation Commission	WPA Form 4A Abbreviated Notice of Resource Area Delineation	Wetlands and Riverfront Areas have been flagged and located on the site plan	Not Required (no wetlands present on any of the sites)	NA
2	US EPA	Stormwater Pollution Protection Plan (SWPPP) approval	Draft required per Order of Conditions; required prior to NPDES NOI filing; draft SWPPP to be included with WPA NOI; refer to Item #6 below	Pending prior to beginning of construction	NA
3	US EPA	National Pollutant Discharge Elimination System (NPDES) NOI for Discharge Associated with Construction Activity and Notice of Termination (NOT)	Filed by Contractor (NOI system) prior to construction and at project completion	Pending; NOI at least 14 days prior to beginning of construction	NA
4	Environmental Notification Form (ENF/EIR) 301cmr 11.00	Executive Office of Energy and Environmental Affairs MEPA	Not Required; project below all thresholds, or thresholds are not applicable.	NA	NA
5	Project Notification Form (PNF) for Historic Buildings or Archeological MHC 950 CMR	Massachusetts Historical Commission Project Notification Form	PNF Filed 6/23/2023	Approved 11/17/23	NA
6	Massachusetts DCR	Watershed Protection Act Request for	Advisory Ruling received 3/28/23	Complete	N/A





MSBA Module 4

4.1.2 SCHEMATIC DESIGN BINDER

Schematic Design

3. Permitting Requirements

F. Code Analysis

#	AGENCY	PERMIT/ISSUE	COMMENTS	STATUS	FEE
		Watershed Determination of Applicability			
7	Massachusetts DEP	Sewer Extension Permit	Not required	N/A	N/A
8	Town of Clinton- Hydrant flow test	Water/Fire Department	W. Boylston Street flow test conducted on 10/04/23 by Rustic Fire Protection	Complete	\$1,750
9	National Grid	New electrical service for school	Work request submitted: #30921073	Backcharge to be determined, Review at the DD/ CD phase	TBD
10	National Grid	Temporary electric service (if required)	Work request to be submitted	By Contractor prior to construction	TBD
11	National Grid	Comprehensive Design Approach rebate program	Independent energy modeling study must be performed	MOU signed 12/04/23. Net Zero Specialist assigned. Scoping session held on 1/19/24	
12	Massachusetts DEP	Asbestos Removal Permit & Notifications	Requirements outlined in Hazardous Materials Identification Report.	Pending; beginning of construction or demolition	TBD
13	Massachusetts DEP	BWP AQ06 Notification	Filed by Contractor prior to construction	Pending; beginning of construction	TBD
14	Massachusetts AAB	Application for Variance (if required)	Not Required	Not required	NA





MSBA Module 4

4.1.2 SCHEMATIC DESIGN BINDER

Schematic Design

F. Code Analysis 3. Permitting Requirements

#	AGENCY	PERMIT/ISSUE	COMMENTS	STATUS	FEE
	Architectural Access Board				
15	Town of Clinton	Request for Determination of Applicability/Notice of Intent	Completion of Design Development Phase	Not required	NA
16	Town of Clinton	Site Plan Review	Completion of Design Development Phase	Pending	NA
17	Town of Clinton	Building Department (including Electrical and Plumbing)	Final required for Building Permit filing	Reviewed during Schematic Design Additional reviews at subsequent phases	NA
18	Town of Clinton	Police/Fire Departments, School Resource Officer, DPW, Board of Health	Review as part of program development	Ongoing during Schematic Design and subsequent phases	NA
19	Town of Clinton	Demolition Permit	Filed by Contractor prior to construction.		TBD
20	Town of Clinton	Building Permit, Certificate of Occupancy	Filed by Contractor prior to construction		TBD





Peter Caruso

From:	Peter Caruso
Sent:	Thursday, February 1, 2024 3:10 PM
То:	jsalmon@clintonma.gov
Cc:	Steven Meyer; Eric Moore; telmore; Elias Grijalva; Sean Brennan
Subject:	RE: New Clinton Middle School Project

Good afternoon Mr. Salmon,

Thank you for taking the time to review the permitting requirements document I sent to you last week. I appreciate your time. Per our phone conversation, I will submit the document as is with no further edits necessary.

Also, I'm confirming that the BDA is included in the base scope of work.

Thank you,

Peter A. Caruso, Jr. LPA Architects 508.752.2831 www.lpaa.com

From: Peter Caruso Sent: Friday, January 26, 2024 4:48 PM To: jsalmon@clintonma.gov Subject: New Clinton Middle School Project

Good afternoon Mr. Salmon,

I'm reaching out to see if you would be able to assist me with the attached document. We are required to provide permitting requirements for the new school project as part of the next submission to the state.

I was wondering if you would be able to review the attached file and, to the best of your abilities, advise if I'm missing anything or if I have something listed that's not applicable with the town. If you could just look at the Town of Clinton items I have listed towards the end of the list, in particular.

I would greatly appreciate your help with this.

I would welcome a call if that would be simpler for you.

Peter A. Caruso, Jr., AIA, NCARB, LEED AP

Associate Principle | Director



108 Grove Street, Suite 300 Worcester, MA 01605

508.752.2831 <u>www.lpaa.com</u>

4.1.2 SCHEMATIC DESIGN BINDER

- G. Utility Analysis
 - 1. Utility Analysis Narrative
 - 2. Flow Test

MSBA Module 4 Schematic Design

1. Narrative

Site Utilities Analysis

This is an acknowledgement that the project design team has contacted all applicable utility companies/agencies and confirmed that building utilities are available in sufficient capacity to meet the needs of the proposed School, while maintaining the utility connections to the existing school while in service. Brief summaries are outlined as follows:

Storm Drainage

Refer to Nitsch Engineering basis of design narrative in section 4.1.2, I for information relative to stormwater management on the site.

Sanitary Sewerage

Refer to Nitsch Engineering basis of design narrative in section 4.1.2, I for information relative to sanitary sewerage to the new building.

Natural Gas

Considering the school building will be designed as fully electric, the existing gas line connecting to the existing building will be capped to the site.

Electrical / Tele-comm

Refer to Nitsch Engineering basis of design narrative in section 4.1.2, I for information relative to electrical and telecommunications to the new building.

NGRID work request number for Clinton Middle School is: 30921073

Photovoltaic (PV) arrays are being included as an add alternate at this phase of the project. Currently, the Town is considering using a third party to install and manage a PV system. Due to current code requirements, no PV array that can generate greater than 500kW is being considered due to the necessary on-site battery storage. PV cells would be location on the new building roof as well as on a canopy installed over a portion of the parking lot to provide the remaining power.

Telecom and Fiber Optics

The design team has not contacted Verizon for the telephone service lines, the design will include 4– 4" Schedule 40 PVC telecommunications underground duct system from the building to the utility company connections. The contractor will coordinate telecommunications services (analog, fiber, and CATV) required for the building with the Owner. Note that the Fire Department connections for alarms are





MSBA Module 4 Schematic Design

through a radio transmitter or cellular system, which is included in the specifications. The radio booster system for Police and Fire Departments is included in the specifications as well.

Domestic Water

Refer to Nitsch Engineering basis of design narrative in section 4.1.2, I for information relative to domestic water to the new building.

Fire Protection Water

A hydrant flow test was performed on 10/04/23 by Rustic Fire Protection and the Clinton Water Department. The results determined that a fire pump is not required. Refer to 4.1.2, I, 3 for more information regarding the results and additional comments from the fire protection engineer.





Hydrant Flow Test Report

Test Date 10/4/2023

Location

100 West Boylston Street, Clinton, MA. 01510

Test Time 11AM

Tested by

RUSTIC FIRE PROTECTION CLINTON WATER DEPARTMENT

Notes

4.5" HYDRANT BUTT FLOWED WITH 4" HOSE MONSTER BIG BOY.

Read Hydrant

77 psi static pressure 76.5 psi residual pressure 375 ft hydrant elevation



Created with the free hydrant flow test program from www.igneusinc.com



- and

5






Original Version of Screen Grab of Residual Pressure



Enhanced Version of Screen Grab of Residual Pressure



4.1.2 SCHEMATIC DESIGN BINDER

H. Massing Study

Schematic Design

H. Massing Study

Please refer to 4.1.2, A Introduction, 3. Visual Arts for plans, sections, renderings, and massing studies.





4.1.2 SCHEMATIC DESIGN BINDER

- I. Building Systems Narratives
 - 1a. Architectural & Sustainable Design Elements
 - 1.b. FF&E Narrative
 - 2. Structural
 - 3. Fire Protection
 - 4. Plumbing
 - 5. HVAC
 - 6. Electrical
 - 7. Site Civil
 - 8. Site Landscape
 - 9. Food Service
 - 10. Technology

Schematic Design

4.1.2 SCHEMATIC DESIGN BINDER I. Architectural & Sustainable Design Elements

1a. Architectural & Sustainable Design Elements Narrative

GENERAL

It is assumed that the work will begin with construction of the new building, including associated sitework infrastructure, on the existing softball/baseball fields southeast of the existing Middle School. We anticipate that most of the existing athletic fields will be utilized by the Contractor for material laydown/storage, worker/equipment parking areas and temporary office trailers. During this time the existing building would remain fully occupied and function, at least internally, much like it does presently. Externally, construction access would impact vehicular traffic and parking around the existing building and most athletic fields and courts would be unavailable. We expect that the Contractor will access the site via the easternmost curb cut off West Boylston; however, construction access may also be possible from the southeast corner of the site adjacent to the intersection of South Main Street and Dyke Drive. It is also anticipated that summer vacation months will be leveraged to maximize productivity for work (i.e. sitework such as repaving, new site utilities, drainage infrastructure, etc.) that would disturb school vehicular/pedestrian traffic. The construction phasing is currently envisioned to be in three stages:

- Phase 1: Enabling Phase
 - Establish separate existing school and new construction entrances that are essential for daily use.
 - Install perimeter fencing and erosion control.
 - o Install temporary construction parking, access road, and signage around existing school.
- Phase 2: Building Construction
 - o Maintain separation of existing school and construction site
 - Construct new school building.
 - Prepare for moving to the new school and demolition of the existing school.
- Phase 3: Existing Building Demolition & Site Construction
 - o Maintain separation of new school and construction site
 - Abate and demolish existing school.
- Phase 4: Site Construction
 - Construct athletic field and basketball court.
 - Complete all landscape work.
 - Site completion: Spring 2028

Refer to Section 4.1.2.M Proposed Construction Methodology for phasing graphics.

While there will be **temporary** construction impacts, most notably the loss of the existing athletic fields on the east side of the site, they are primarily site-related and the end result is a solution that meets the Educational Program requirements.





4.1.2 SCHEMATIC DESIGN BINDER

Schematic Design

I. Architectural & Sustainable Design Elements

1a. Architectural & Sustainable Design Elements Narrative

Proposed square footage areas are approximately as follows:

- New Construction =136,000 GSF
- Demolition (existing building) =130,000 GSF

BUILDING EXTERIOR/INTERIOR:

Provide new construction as follows:

- Exterior walls: Steel stud backup walls with batt insulation, glass fiber reinforced gypsum board sheathing, fluid applied vapor permeable air barrier, air barrier transitions to door openings and roof systems, mineral wool rigid insulation, masonry brick veneer wall system including anchors and flashings, joint sealants, glass fiber reinforced concrete wall panel system including external cladding supports with qualifying thermal breaks and other accessories required for a complete air and watertight installation.
- Roofing: Adhered PVC roofing system throughout, including all membrane/flashing, roof edging, sheet metal work, roof board, roof vapor barrier, insulation, protection board, wood blocking, and other roof accessories (ladders, walkway pads, etc.) required for a complete watertight installation.
- Windows, Storefront and Curtainwall: Thermally broken aluminum systems, including high performance triple-glazed, Low-E insulating glass, insulated spandrel glass, perimeter joint sealants, insulated panels, screens, operable hardware, sheet metal work, air barrier transitions, window treatments and other accessories required for a complete air and watertight installation.
- Interior partitions: Metal stud and Gypsum Wall Board (GWB) assemblies as required for structural and acoustical requirements; Concrete Masonry Units CMU at Gymnasium, and other high-abuse areas.
- Doors, Frames and Hardware: Hollow metal and solid-core wood veneer doors; custom welded steel frames and borrowed lites; and lever type mortise hardware, electrified at exterior entries.
- Millwork/Casework:
 - Classroom units with storage shelving, tall wardrobe and material storage units, and lockable/open low storage cabinets.
 - Wall paneling system at Lobby.
 - Custom cabinetry at main Administrative offices, Media Center, Cafetorium/Stage, and other locations as required.
- Finishes:
 - Corridors, Stairs and Cafetorium: Linoleum flooring and resilient base, resilient stair treads, porcelain wall tile to 7' with painted GWB above, ACT.





4.1.2 SCHEMATIC DESIGN BINDER

Schematic Design

I. Architectural & Sustainable Design Elements

1a. Architectural & Sustainable Design Elements Narrative

- Classrooms: Linoleum flooring, resilient base, painted GWB, ACT.
- Kitchen: Epoxy flooring/base, FRP wall paneling, washable ceiling tile system.
- Administrative/Guidance Offices and Media Center: Modular carpet flooring, resilient base, painted GWB, ACT.
- Cafetorium and Stage: Linoleum flooring, resilient base, wood and acoustic wall paneling, acoustic ceiling panels and exposed painted structure above.
- Gymnasium: Resilient tongue and groove maple flooring system (competition court) vented resilient base, painted CMU to 15' with abuse-resistant GWB above, wall padding, acoustical wall panels, painted acoustical cellular roof deck.
- Locker Rooms: Seamless epoxy flooring/base, painted CMU walls, wood fiber tile ceilings.
- o Bathrooms: Seamless epoxy flooring/base, ceramic tile and painted GWB walls, ACT.
- STEM/STEAM Rooms: Linoleum flooring, resilient base, painted GWB walls, exposed painted structure above.

FIXTURES, FURNISHINGS & EQUIPMENT (FF&E)/TECHNOLOGY:

- Provide FF&E throughout including furnishings, equipment, maintenance items, etc.
- Provide new teacher devices (laptops).
- Provide Classroom technology including short throw interactive projectors, and document cameras.
- Provide hand-held radio system.
- Provide main servers and UPS.
- Provide Classroom local speech reinforcement system (refer to Electrical scope).
- Provide telecommunications infrastructure (refer to Electrical scope).
- Provide Wi-Fi system throughout including exterior learning spaces (refer to Electrical scope).
- Provide digital clock/PA system (refer to Electrical scope).
- Provide video surveillance, access control and security systems (refer to Electrical scope).
- Provide VOIP telephone system (refer to Electrical scope).

HAZARDOUS MATERIALS:

- Abate entire existing building prior to demolition. Refer to Section 4.1.2, D for Hazardous Material report.
- Provide radon mitigation system at slab-on-grade areas.

SITE:

• Refer to Nitsch Engineering Civil Basis of Design narrative in section 4.1.2.1.





4.1.2 SCHEMATIC DESIGN BINDER

Schematic Design

I. Architectural & Sustainable Design Elements

1a. Architectural & Sustainable Design Elements Narrative

LANDSCAPE:

• Refer to Studio 2112 Landscape Basis of Design narrative in section 4.1.2.1.

FOOD SERVICE:

• Refer to Colburn & Guyette Food Service Basis of Design narrative in section 4.1.2.1.

STRUCTURAL:

• Refer to Bolton & DiMartino Structural Basis of Design narrative in section 4.1.2.1.

FIRE PROTECTION:

• Refer to Sensible Solutions Fire Protection Basis of Design narrative in section 4.1.2.1.

PLUMBING:

• Refer to Seaman Engineering Plumbing Basis of Design narrative in section 4.1.2.1.

HVAC:

• Refer to Seaman Engineering HVAC Basis of Design narrative in section 4.1.2.1.

ELECTRICAL:

• Refer to ART Engineering Electrical Basis of Design narrative in section 4.1.2.1.

TECHNOLOGY:

• Refer to Edvance Technology Design Technology narrative in section 4.1.2, B, 10.

SUSTAINABLE DESIGN:

• Refer to section 4.1.2, J Sustainable Building Design for the current LEED Scorecard, Sustainability narrative and additional details on the sustainable goals for the project.





4.1.2 SCHEMATIC DESIGN BINDER

Schematic Design

I. Architectural & Sustainable Design Elements

1b. FF&E Narrative

The Total Project Budget identifies \$3857 per student or a total of \$2,700,000 for FF&/Technology. It is assumed at this time that the budget will be divided appropriately, as needed, between the following three (3) categories:

- Furniture
- Equipment
- Technology

This distribution must be evaluated further during the upcoming FF&E/Technology programming phase and will be adjusted as needed. At this phase, the following table outlines the items currently assumed to be within the base contract and FF&E budget, respectively:

FF&E BUDGET		BASE CONTRACT		
a)	Classroom Interactive Projectors	a)	Category 6A cabling	
	including cabling for projectors.	b)	Fiber Optic Cabling between Main	
b)	Flat Panel Display Technology-		Technology rooms and Intermediate	
	Collaborative and Interactive		Technology rooms	
c)	Servers, storage, firewall, etc.	c)	Environmental conditioning in all	
d)	Document Cameras		Technology equipment rooms.	
e)	Desktop Computers (may be leased)	d)	School Wide Public Address	
f)	Mobile Technology charging Carts	e)	Master and Secondary Clock System	
g)	Teacher Mobile Technology (leased)	f)	Network Switch Electronics	
h)	Mobile Audio/Visual Equipment	g)	Telephone and Voicemail Equipment	
i)	Printers	h)	Classroom Speech Reinforcement	
j)	Copiers (leased)	i)	Wireless Equipment	
k)	Portable projector carts	j)	Security - Intrusion, Access Control	
I)	Furniture		and Video Surveillance	
		k)	Audio-Video for large assembly	
			spaces (Auditorium, Black box, Gym,	
			Cafeteria, Media Center, Large	
			Group Meeting Room).	



4.1.2 FINAL EVALUATION OF ALTERNATIVES I. Building Systems Narratives 2. Structural

Schematic Design

Basis of Design - Structural

The proposed Clinton Middle School consists of 136,000 sq. ft. of one- and two-story buildings. The project conforms to Type IB Construction.

It is assumed that the foundations will be standard spread footings supported on structural fill placed over natural sand and gravel with a bearing capacity of 4 ksf. The perimeter concrete foundation walls will be standard frost walls with wall pilasters at columns and continuous wall footings. Our assumptions are based on Lahlaf Geotechnical Consulting, Inc.'s "Preliminary Geotechnical Report," dated October 7, 2023.

The slab-on-grade will be a 5" thick concrete slab-on-grade reinforced with welded-wire fabric (6x6-W2.9 W2.9). Control joints consisting of sawn cuts, and formed construction joints will be shown on the plans and will be located at about 12 feet on center to minimize shrinkage cracks in the slab.

The framed slabs will be $7\frac{1}{2}$ " thick concrete composite slabs supported on steel beams and 3" composite metal deck (18 Gauge). Framed slabs include a thickness of 4 $\frac{1}{2}$ " of concrete over the top of the metal decking, which will be sufficient to provide a 2-hour rated slab. Framed slabs will be reinforced with welded wire fabric (6x6–W2.9 W2.9) and additional #4 diaphragm reinforcing at the perimeter of the slabs. The composite concrete slab is made composite with the steel beams by using $\frac{3}{4}$ " diameter headed shear studs; and "partial composite design" is used for the economy of installing fewer shear studs. ASTM A992, with yield strength of 50 ksi, will be specified for the structural steel. However, the beams will be selected on serviceability requirements to reduce the problems of vibrations and deflections, so they will not necessarily be fully stressed.

The roof framing will incorporate steel beams and long-span, open-web steel joists. Long-span joists will be limited to the Cafeteria and Gymnasium roofs. Concrete slabs will be placed below HVAC roof units near classroom spaces to help with sound attenuation. The roof steel pitches to the roof drains to reduce the amount of tapered insulation, where possible. The roof metal deck will be 1-1/2''-20 Gauge, Type B. The metal deck over the Gymnasium and cafeteria will be 3" Cellular Acoustic (20/20 Gauge) to aid acoustic properties of the open spaces. All roofs will be designed to support future photovoltaic equipment.

Wherever possible, hollow structural shapes will be selected for the columns. The Classroom Building will use HSS6x6 tubes that are easily concealed in the wall and partition framing. The Cafeteria will use wide flange steel columns at exterior walls due to their length and wind loading requirements.

The lateral stability of the buildings will be achieved with concentrically braced steel frames throughout the building. Concrete floor diaphragms and metal deck roof diaphragms will collect the seismic loads at each level. Steel braces will typically be HSS6x6 tubes. The braces will resist the lateral loads in both tension and compression. The buildings will be structurally isolated at two expansion joint locations to isolate the two Classroom Wings from the core Gymnasium/Cafeteria Building.

Bolton & DiMartino, Inc.

Christopher Tutlis, P.E. President





Schematic Design

EXECUTIVE SUMMARY

This report summarizes the code required and recommended Fire Protection (FP) systems for an allnew middle school at the existing Clinton Middle School (CMS) site.

The PSR report (dated 6–23–23) summarizes the proposed building structure, layout, and various hazard levels. That same report noted available street water flow and pressure from the 12" W Boylston St main was "sufficient" (73 psi static pressure, 67 psi residual pressure, with 1210 gpm flowing) in 1996. Current flow and pressure are expected to be somewhat better than these numbers, as the formerly-dead-end 12" main is now connected to other mains at both ends. A new flow test was provided on 10–4–23, (report attached at end) but there are issues with the test, discussed under Fire Protection Service and Fire-fighting Summary. further down.

This narrative also includes several storage recommendations that will help minimize FP costs.

The following work will be provided:

Installations:

- Revise the existing underground site loop (running between W Boylston St. and S Main St), as required for the location of the new school. Provide a new FP service from the site loop.
- Provide a new, NFPA 13 (2013) wet sprinkler system through-out the building with1 riser and 2 zone control valve stations (ZCVs) for the North half of the building, and 1 riser for each floor of the South half of the building.
- Sprinkler system will be sized primarily for non-combustible, un-obstructed construction in spaces with ceilings, and non-combustible, obstructed construction in spaces without ceilings.
- Protect small isolated cold areas (i.e. walk-in coolers, loading dock) by "dry sprinklers" off of the wet system.
- Omit sprinklers under outside roof overhangs (other than the loading dock), as they are of completely non-or-limited combustible construction, with no potential for storage below.





Schematic Design

4.1.2 SCHEMATIC DESIGN BINDERI. Building Systems Narratives3. Fire Protection

- Review available storage areas and storage needs. Re-organize storage to keep it confined to designated storage rooms, with appropriate FP coverage.
 - 1. Keep all storage heights less than 12', and top of storage a minimum of 18" below the sprinkler deflector level.
 - 2. Where large amounts of plastics or foam are stored (i.e. recycling room, gym storage and theatre set-storage), store materials in an enclosed room with a ceiling under 17' high. Store materials in solid piles, bin-boxes, single-row shelves, or back-to-back shelves, with top of storage under 12' high for an "extra hazard group 2", (EH2) hazard rating. Where feasible, keep plastics storage rooms under 400 sqft. (to minimize the required hose demand.
- Connect new FP system alarms to a new central Fire Alarm Control Panel (FACP), provided under Electrical.
- New Kitchen Exhaust Hood and Hood FP system will be provided under kitchen equipment.
- Portable fire extinguishers per NFPA 10 provided by the General Contractor.

Maintenance:

- Train in-house personnel, and provide required, regular, sprinkler system and fire extinguisher inspections using in-house inspectors
- Provide additional required maintenance and testing of FP and fire extinguisher systems, alarms and flow via maintenance contract.

1. BUILDING DESCRIPTION:

The new CMS will be a 2-story building with type 2A non-combustible construction – primarily steel, block, and brick. Total occupied building area is approximately 134,000 square feet.

The building is approximately 78% "light hazard" and 21% "ordinary hazard", and 1% "extra hazard".

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Schematic Design

4.1.2 SCHEMATIC DESIGN BINDERI. Building Systems Narratives3. Fire Protection

"Ordinary hazard" areas would include (group 1) the main kitchen and kitchen service areas, and (group 2) boiler room, mechanical rooms, exterior loading docks, most storage-areas, construction craft labor shops, ETA shops, and the stage.

The recycling room, gym storage room, and theatre set storage (under 1% of the building), may contain significant amounts of group A plastics. We expect the recycled plastics, gym storage, and set storage materials may extend up to a height of 10' AFF, resulting in an EH-2 area.

Areas requiring special types of protection include the:

- kitchen hood exhausts (dry-agent packaged hood suppression by kitchen equipment)
- storage areas with shelves (aisle to aisle) over 30" deep would be considered "rack storage". Hazard level would depend on what materials are stored in that manner, and could vary from OH2 to EH2. We are at this time, unaware of any rack storage areas in the designed building.
- There will be no combustible concealed spaces in the all-new building except for the under bleacher area in the gym. This area will be protected by extended coverage sidewalls spraying down the slope under the open-bleachers.
- The Mass Building Code, (IBC 2015) permits unlimited miscellaneous wood blocking to be used inside walls for hanging railings, wall-mounted cabinets and accessories, etc. All other wood blocking (above ceilings, inside chases, etc) is specified to be Class A fire-retardant (NFPA 13 "limited combustible").

Any flammable liquids such as paints, thinners, and flammable science materials will be stored in listed flammable-cabinets. There are no other known special hazards in the building,

2. DESIGN RESPONSIBILITY

The design engineer of record for the fire protection system is Lily Kara Barak – of Sensible Solutions – Hadley, Ma. The design engineer of record for the fire alarm system is Azim Rawji – of ART Engineering Inc. – Clinton, Ma.





Schematic Design

3. APPLICABLE REGULATIONS

The Mass. Building Code and Fire Prevention regulations primarily define *where* fire protection systems are required and the required system components.

Massachusetts is currently governed by the 2015 International Building Code, with Mass. Amendments listed in 780 CMR 9th Edition. Current building code requires the following in a facility of this sort:

- Although the building is not high-rise by the IBC 2015 definition, it is high rise by the Mass Amendments definition. This affects several aspects of fire protection – most notably standpipe and fire pump requirements. A manual-wet standpipe system has been approved, and the fire pump has been waived, however, by the Clinton Building Dept, as permitted by CMR 780 104.10.
- 2. An Educational-use building over 12,000 square feet requires a sprinkler system "through-out" per NFPA 13. The system must be designed and installed per the 2013 edition of NFPA 13.
- 3. Water-sprinkler systems must be maintained per NFPA 25.
- 4. In a fully sprinkled building, Class I standpipes are required if a building's top floor is more than 30' above the lowest (adjacent) Fire Department vehicle access. The top floor levels in all of the multistory portions of the building are much less than 30 ft above lowest fire department access. Thus, stairwell standpipes *are not* required through-out.
 - A. Stages over 1,000 square feet require fire-hose stations on both sides of the stage. This building has a platform, not a stage. so no stage hose stations will be provided.

Minor requirements include:

- Identification signs with specific text messages must be installed on all equipment, valves, etc. (See "Fire Protection Systems Provided")
- 6. All critical system components must be monitored by listed Fire alarm control units, and all alarms, trouble signals, and supervisory signals must be automatically transmitted to the local fire dept. via approved means. Water flow alarms must also activate local Audio / visual alarms to trigger evacuation.





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4.1.2 SCHEMATIC DESIGN BINDERI. Building Systems Narratives3. Fire Protection

- 7. Kitchens with commercial cooking equipment under type 1 hood exhausts require fire suppression that also must be regularly tested and inspected.
- 8. Labeled, approved, and visible fire extinguishers are required in all E-use buildings. In buildings covered thru-out with quick response sprinklers, however, portable fire extinguishers are only required in the following locations:
 - A. within 30' of commercial cooking equipment (type K);
 - B. areas with flammable or combustible liquids; (type B)
 - C. per NFPA 241 when structures are under construction / renovation;
 - D. special hazard areas listed in the code (such as wood-working or auto repair areas that would apply only to the CCL and ETA shop area of CMS);
 - E. as required by the local fire dept.
- 9. Areas where toxic gasses are used require gas leak detectors with distinct audio-visual emergency alarms, and automatic shut-down of gas supplies. There is no toxic gas storage in the building except in a central chemical storage room. Natural gas will be used to power HVAC and kitchen equipment, but there will be *no* natural gas supplies in science rooms, which are designed as an light hazard.

10. An unobstructed, readily accessible Fire Dept. Connection (FDC) that permits the Fire Dept. to pump extra water into the sprinkler and standpipe systems is required. As agreed with CFD, 1 FDCs will be provided. Location must be approved by CFD. The FDC is currently shown on drawing FP-4 as just outside the water room entrance. The FDC will be a4" Storz, angled down 30 degrees.

The NFPA standards primarily define <u>how</u> the Fire Protection Systems must perform and <u>how</u> they will be installed. Requirements vary greatly by hazard type and building combustibility and are only briefly summarized here.

NFPA 13 2013 Edition - Sprinkler Systems

1. Sprinklers are required "through-out", except where specifically permitted to be omitted. Throughout means not only occupied spaces, but in electrical / mechanical rooms, closets,





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4.1.2 SCHEMATIC DESIGN BINDERI. Building Systems Narratives3. Fire Protection

walk-in-coolers, combustible concealed spaces, and several other spaces that the CMS will *not have* such as attics and crawl-spaces.

- 2. Each wet Sprinkler "system" is limited to 52,000 sqft (light or ordinary hazard) or 40,000 sqft (extra hazard) on a single floor, per riser. This minimizes the area taken out of service in the event of an equipment failure, or fire. Areas on different floors are *not* added together for example, up to 52,000 sqft on each of two floors can be served by a single riser. CMS will have 3 sprinklers to cover it's 134,000 total sqft.
- 3. The number and spacing of sprinklers in any room, and the minimum amount of water each sprinkler must discharge is defined based on the room's "hazard group". The basic hazard groups in NFPA 13 are
 - a. "Light hazard (Light)",
 - b. "Ordinary Hazard (OH-1 or OH-2) and
 - c. "Extra Hazard (EH-1 or EH-2)".
 - d. Spaces used for storage have special classifications depending on what materials are stored and how they are stored.
- 4. Sprinkler piping may be sized based on hydraulic calculations or using pre-defined pipe schedules. All piping in this building is hydraulically designed.
- 5. In addition to the hazard rating of an area, the fire protection requirements also depend on whether the construction is
 - a. "combustible" or "non-combustible".
 - b. "Obstructed" or "non-obstructed".

This sprinkler system is designed for predominately non-combustible, non-obstructed construction in spaces with ceilings, and non-combustible, obstructed construction in spaces without ceilings.

Sprinkler systems can be "wet" (piping always filled with water), "dry" (piping always filled with air, except in a fire), or one of several specialty types. NFPA recommends wet systems be

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used where-ever possible, as they provide the fastest response to a fire. A wet-system is provided for the entire building.

6. Small isolated cold areas in CMS will be sprinkled by "dry sprinklers" off of a wet system. This would apply to Walk-in freezers and coolers, and the loading dock. All other canopies are non-or-limited-combustible construction, and per NFPA 13, these canopies will not be sprinkled.

NFPA 10 - Fire Extinguishers

- 1. Selection of fire extinguishers is based on the type and size of fires expected to occur.
- 2. Classes of fires:
 - a. A ordinary combustibles wood, paper, cloth, rubber, many plastics
 - b. B Flammable liquids, greases, tar, oil, paints, solvents, alcohols, gasses.
 - c. C Energized electrical equipment
 - d. D-combustible metals
 - e. K cooking oils
- 3. The size and quantity of extinguishers required is based on the room's hazard level. Room hazards are defined as:
 - a. Light hazard if has normal amounts of Class A materials, with less than 1 gallon/room class B
 - b. Ordinary Hazard if occasionally has more than normal amounts of Class A, and less than 5 gal/room class B
 - c. High hazard storage, manufacturing, or packaging of Class As, or class B over 5 gal./room
- 4. Building structure is be protected by Class A extinguishers. Specific occupancies are protected by extinguishers with an appropriate class. Extinguishers can be "multi-purpose, for example, type ABC is very widely used.





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- 5. Class B fires must be protected with large (over 10 lb) dry chemical medium, with minimum discharge of 1 lb/second.
- 6. Class K (cooking oil) fires must be protected with class K extinguisher. ID all K extinguishers "Activate FP system prior to using extinguisher"
- Extinguishers should be inspected monthly to ensure they are in place, are full ("hefting" test), with no visible damage. They require annual minor maintenance and 6 and 12-year interval major maintenance / testing.

NFPA 25 – FP Maintenance

Current NFPA maintenance requirements are summarized below:

- 1. Annual, visual inspection (from the floor) of all sprinklers for: leaks; "loading" (accumulation of foreign materials such as grease, lint, paint, etc); corrosion; physical damage;
- 2. Annual visual inspection of the spare sprinkler cabinet to ensure it contains the proper type and quantity of sprinklers and wrenches.
- 3. Annual visual inspection (from the floor) of pipe and hangers for: leaks, corrosion, extra weight, damage.
- 4. Annual inspection (just before cold weather) of building to ensure all areas with water-filled piping have heat, and dampers, windows, etc. are all closed.
- 5. Monthly inspection of pressure gages for normal pressures, and damage.
- 6. Quarterly inspection and operational test of alarm devices (flow switches)...
- 7. Quarterly inspection of the hydraulic name-plates to ensure they are in place.
- 8. Monthly inspection and annual test of control valves,
- 9. Monthly inspection and annual testing of the back-flow preventor





4.1.2 SCHEMATIC DESIGN BINDER I. Building Systems Narratives 3. Fire Protection

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- 10. Quarterly inspection of fire dept. connections.
- 11. Annual full-flow test out main drain.
- 12. Sprinkler testing laboratory testing of a "representative sample (minimum 1% of total installed). Test after 20 years, then every 10 years there-after. If any tested samples fail replace all sprinklers represented by that test sample.

Sprinkler system maintenance will increase the school's annual maintenance costs. This will be at least partially offset by a reduction in fire extinguisher maintenance, however, since far fewer extinguishers will be required with a sprinkler system installed.

NFPA 241:

Since Oct, 2017, NFPA 241 has been adopted by the State of Massachusetts. Most of its requirements are common sense, though some will increase construction costs. Requirements are summarized here:

1.2.4 A fire safety program shall be included in all constructions, alteration, or demolition contracts. Per 7.1 this shall include at minimum:

- 1. Good housekeeping
- 2. On-site security
- 3. Installation of new FP systems as construction progresses
- 4. Preservation of existing systems during demolition (no existing systems at CMS)
- 5. Organization and training of an on-site fire-brigade
- 6. Development of a pre-fire plan with the local FD
- 7. Rapid communication
- 8. Consideration of special hazards resulting from prior occupancy
- 9. Protection of existing structures and equipment from exposure fires caused by construction, alternation or demolition operations.

4.3.1 Temporary Enclosures: Only non-combustible panels, flame resistant tarps or approved materials with equivalent fire-retarding capacity shall be used.





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4.1.2 SCHEMATIC DESIGN BINDER I. Building Systems Narratives 3. Fire Protection

4.3.4.1 All Temporary enclosures shall be equipped with a minimum of 1 fire extinguisher suitable for all classes of fires expected inside the enclosure.

4.3.4.2 Travel distance to a fire extinguisher from anywhere in the construction area shall not exceed 50 ft.

5.1 Hot Work – defined as work involving burning, welding, or a similar operation that is capable of initiating fires or explosions.

5.1.1 FP precautions, permits, and fire watches shall be per NFPA 51B.

5.1.3.1 Fire watches shall be assigned no other duties.

5.5.1.1, 2 and 5 Storage and handling of Flammable and combustible liquids: shall be per NFPA 30 – in approved safety containers, in areas posted "no smoking". Storage of class I and II liquids shall not exceed 60 gallons within 50 ft of the structure.

7.2.5: Guard service shall be provided where required by the local AHJ.Security fences shall be provided where required by the local AHJ.Entrances shall be secured where required by the AHJ

7.4 Fire Alarm reporting – There shall be a nearby, readily available public fire alarm box or telephone service with FD number and address conspicuously posted near each telephone.

7.5 Access for Fire Fighting: A command post with plans, emergency info, keys, communications, and equipment shall be provided at a suitable site location. The local AHJ may require an approved-type, locked key box installed in an accessible location.

7.5.5 Access roadways: The following may be relaxed by the local FD, if they feel fire-fighting / rescue operations would not be impaired:

Every building shall be accessible for FD apparatus. Min. standards: All-weather driving surface that can withstand live loads of FD trucks, min 240" wide, min 162" vertical clearance. The required width shall not be obstructed in any way – including by parked vehicles. Access roads shall extend to within 150 ft of all portions of the 1st floor exterior walls.





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4.1.2 SCHEMATIC DESIGN BINDERI. Building Systems Narratives3. Fire Protection

8.6.1.1 Fire walls and exit stairways - where required for the construction - shall be given priority for installation.

8.6.1.2 and .3 Fire doors with approved closing devices and hardware shall be installed as soon as is practicable, and shall not be obstructed from closing once installed.

4. FIRE PROTECTION SERVICE AND FIRE-FIGHTING SUMMARY

Water to the new school will be fed from two directions. A combination existing-new 8" site main will loop around the new building, with one end connecting to a 12" W. Boylston St. main, and the other end connecting to a 12", S. Main St. main.

Existing site hydrants around the existing school will be removed, and new site hydrants are planned. See site plans for exact location and number of new hydrants. There will be a site hydrant within 100 ft. of the FDCs.

A 10-4-23 flow test performed by Rustic Fire Protection on the W. Boylston St. 12" main showed a static pressure of 77 psi with a residual pressure also 77 psi, and 1,455 gpm flowing. (The DPW staff person videoing the residual pressure gage stated verbally that the gage "never budged".) We wrote to the Clinton DPW, describing the situation, and asking if they had any good explanation for the lack of pressure drop. Our hypothesis is that a valve was closed on W. Boylston St, between our gage and flow hydrants, and the water flowing was actually back-feeding down S. Main St, and thru the existing CMS site hydrant to the flow hydrant. The DPW stated they would check if any valves were closed, but they have not responded further yet.

A new flow test will be performed by the successful bidder before installation of the new FP system. We will use the same set-up used on 10-4-23, but add a residual pressure gage on the existing CMS site loop. If there is still 0 pressure drop on the W Boylston St. residual gage, and 5 psi or more on the site loop residual gage, this will help locate the problem.

Emergency vehicle access will be excellent, - with 100% of the building accessible to apparatus.

5. FIRE PROTECTION SYSTEMS TO BE INSTALLED

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4.1.2 SCHEMATIC DESIGN BINDERI. Building Systems Narratives3. Fire Protection

A new "wet-type" system will be installed through-out the occupied building.

Sprinklers will be intermediate temperature throughout the building, except where a higher temperature rating is required by NFPA 13.

All spaces with ceilings will utilize concealed pendants, to minimize potential for vandalism of sprinklers.Clinton K-factor will be 5.6 in most areas, with K11.2 Light-listed extended coverage sprinklers used in *some* light hazard areas, and K11.2 OH-listed extended coverage sprinklers used in *some* ordinary hazard areas. All extended coverage sprinklers will have a 3/4" (larger-than-standard) thread size, to prevent accidental replacing of any EC sprinkler with a standard coverage sprinkler.

Areas with no ceilings will utilize exposed piping, with fusible link, upright sprinklers.

Mechanical and electrical spaces, walk-in coolers with auto-defrost, cooking areas, and the Art-kiln room will be covered by high temperature sprinklers, to prevent false activation in the event of a pressure relief valve blowing, or defroster / cooking heat,.

All exposed upright or pendant sprinklers in the gymnasium, mechanical spaces, storage areas, understairs, or installed under 12' AFF will have protective head-cages. Sidewalls under the bleachers will not have head cages.

All above-ceiling spaces are non-or-limited-combustible, so **none** of these are "combustible concealed spaces" requiring sprinklers. Some ceilings are not solid-and-continuous, however, so do require 2 (or more) levels of sprinklers. Ceilings have not been designed yet, but such areas may include the cafeteria, auditorium, media center, career center, and band-music areas. In general, 1 level of sprinklers is at the deck, and one at the ceiling level. There is **no** accessible space under the platform, so no sprinklers there.

Walk-in coolers / freezers are protected by dry sprinklers piped from wet-piping in heated space.

A new kitchen exhaust-hood will be provided, and a new, dry-agent, packaged fire suppression system provided as part of the kitchen equipment / hood package.





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4.1.2 SCHEMATIC DESIGN BINDERI. Building Systems Narratives3. Fire Protection

Interior piping systems will be schedule 40 threaded or grooved, black steel for pipe 2" and under, and schedule 10, grooved steel for pipe 2-1/2" and over. All pipe will be sized for a maximum water velocity of 30 fps.

Seismic bracing to be provided will include riser-4-way bracing and main-longitudinal sway bracing thru-out. Where possible, sprinkler main hanger rods will be less than 6" long from point of attachment to top of pipe, eliminating the need for lateral bracing. Where this is not possible, all mains and cross mains will have both lateral and longitudinal seismic bracing. Per NFPA 13, branches 2-1/2" and over will have lateral bracing only. Branch lines carrying 2 or more sprinklers will also have end-of-line restraints.

Fire Protection Equipment and Controls Locations:

The fire protection service entrance, backflow preventor, and sprinkler risers will be located in the Water Service room, located on the South exterior wall of D-area. there will also be 2, zone-control-valve stations (ZCVs - one per floor) located in the north stairwell of ther C-area. CFD Zone control valve stations will be typically located above the stair-landing ceiling, and will all have a supervised control valve, check valve, pressure relief valve, pressure gages, flow-switch alarm, and test and drain (to a 2-1/2" drain riser) per NFPA 13.

Per the Clinton Fire Dept. (CFD) standards, 1, new, Storz FDC will be provided. Awater-flow bell will be located above the FDC.

Cross-contamination between the sprinkler system and city water system will be prevented by a new, double check valve backflow preventer installed at the new FP service entrance.

There is no smoke control system or exhaust required for this building, and none is provided. The only non-wet fire suppression system in the building is the kitchen hood wet-chemical system, located in the main kitchen.

Identification signs per NFPA 13 and the 9th Edition Building Code will be provided on:

- 1. All control valves must state area served.
- 2. All test and drain valves and all auxiliary drains.
- 3. Fire Dept. connections





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- 4. Hose valves
- 5. Fire Suppression Control Room door
- 6. Spare sprinkler cabinet (typed list of sprinklers and their characteristics and use)
- 7. Hydraulics calculations signs at the service entrance

Sequence of Operations: All control valves will have continuously monitored tamper switches, and all risers, and all zone-control valve stations will each have a flow switch. Flow switch alarms will trigger all building notification devices and evacuation. Both tamper switch and flow switch activation will be communicated to the Clinton fire dept. See fire alarm narrative for details.

6. ACCEPTANCE CRITERIA

The following written certifications shall be provided (by the person noted) to all local AHJs.

The Fire Suppression Engineers of record will certify that the systems have been installed in compliance with the construction documents, and that submittal data was reviewed and is acceptable.

The owner will certify that as-built drawings have been received from the contractors, and that the engineer(s) have confirmed their reasonable accuracy.

The sprinkler contractor will provide completed NFPA 13 test and acceptance report(s) for each riser (above-ground reports) and for the FP-only underground service main (underground report). Reports will include the name, address, and telephone number of a person to contact for any system failures or emergencies.

If any portion of their system fails to operate satisfactorily, each contractor must repair or replace the faulty components. They must then retest those components individually, as well as retest all related system functions in the presence of the engineer and all AHJs.

The sprinkler contractor will also provide a signed letter certifying the sprinkler system is installed in full compliance with all laws, regulations, and the pre-approved narrative, and shall obtain written approval from all AHJs certifying that they have witnessed the final acceptance testing.







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4.1.2 SCHEMATIC DESIGN BINDERI. Building Systems Narratives3. Fire Protection

The site contractor (responsible for installing all underground piping) shall also provide NFPA test and acceptance reports, certifying that their main-loop piping has been installed, flushed, and pressure tested per NFPA.





64 Knightly Rd Hadley, Ma. / PO Box 905 Brattleboro, VT 05302

To: Peter Caruso Sean Brennan Eric Moore

From: Lily Kara Barak

Date: 2-7-24

RE: Clinton Middle School SD Quality Assurance and Fire Pump Certification

1. FP design coordination and quality assurance

- **a.** The FP SD design is coordinated with the Structural design. When ceiling plans are further developed, we will also be in an on-going process of checking coordination with the architectural, electrical, and HVAC designs.
- **b.** We are aware that many ceiling designs will not be finalized until the CD phase. We will continue to coordinate the FP design as the architectural designs evolve.

2. Fire pumps:

- **a.** A flow test was provided by Rustic Fire Protection and the Clinton Water Dept. on 10/4/23. With a static pressure of 77 psi and 1455 gpm flowing, there is no need for a fire pump to serve this 2-story, sprinklers-only system.
- **b.** There was 1 anomaly in the flow test, which is that the residual pressure gage never moved between it's zero flow reading (77) and the 1455 gpm reading (77). We theorize that a valve was closed on W. Boylston St, between the flow and gage hydrants. And that flow to the flow hydrant was back-feeding thru the existing school loop from S. Main St. We requested that the Town Water Dept. check for any closed valves (or offer an reasonable, alternative explanation), but after a brief email conversation with them, we have nothing further.
- **c.** The FP contractor is required to provide a new flow test at the time of construction. If this anomaly is not resolved by then, we will require 2 gage hydrants, 1 on W Boylston, and 1 on the existing school loop. As a further check, we will close a valve on the school loop while the flow hydrant is flowing, and record the impact this has.

It would be easy for a valve to be accidentally left closed on W. Boylston St, since it is fed from 2 directions, and the impact of a closed valve would be invisible under normal operation. But we do not want construction to start on the new school site, and leave W. Boylston St (west of the closed valve) without water because the site loop has been shut down.

4.1.2 SCHEMATIC DESIGN BINDER

Schematic Design

I. Building Systems Narratives 4. Plumbing

Code Criteria Listing

International Building Code (IBC), 2015 Edition International Mechanical Code (IMC), 2015 Edition International Energy Conservation Code (IECC), 2015 Edition Massachusetts State Building Code Amendments, Ninth Edition, 780 CMR Massachusetts Architectural Access Board (MAAB), 521 CMR NFPA 54, ANSI Z223.1: National Fuel Gas Code, 2018 Edition Commonwealth of Massachusetts "Fuel Gas & Uniform State Plumbing Code", 248 CMR, 12/8/23

Fixtures and Fixture Count

Number of plumbing fixtures will distributed throughout the proposed facility to accommodate a population of 350 male students, 350 female students and 100 faculty/staff and shall be in accordance with 248 CMR Paragraph 10.10, Table 1.

Plumbing fixtures will be equipped with the following water conserving features (for 30% indoor water use reduction per LEED v4 Water Efficiency)

Water Closets:	Electronic Sensor Flush Valve @ 1.28 GPF (Sloan #111-1.28 ES-S) Hard-wired (owner preferred) or Battery Operated
Urinals:	Electronic Sensor Ultra Low-Flow Flush Valve Style @ 0.125 GPF (Sloan #WEUS 1000.1301) Hard-wired (owner preferred) or Battery Operated
Lavatories:	Electronic Sensor Faucets @ 0.35 GPC (Sloan SF-2300 Series) Hard-wired (owner preferred) or Battery Operated
Showers:	Non-ADA Low Flow Institutional Shower Head, Ball Joint, Adjustable Spray, 1.5 GPM (Moen Commercial #8375EP15 or equal) ADA Compliant Hand Shower with 30" Glide Rail, Single Handle Shower Valve, 1.5 GPM (Moen Commercial #8346EP15 or equal)

Water closets and urinals will be commercial vitreous china, wall hung (ADA compliant where shown). There may be a floor mounted water closet depending on if there is a wet-wall plumbing chase provided.

seaman Engineering Corp.



3.3.3 FINAL EVALUATION OF ALTERNATIVES

Feasibility Study PSR

D.1 Basis of Design Narratives f. Plumbing

Lavatories throughout the building will be commercial vitreous china, wall hung. Each floor includes a janitor's closet with a floor mounted mop service basin. Toilet cores on each floor will include alcove-recessed electric water cooler, in a high-low handicapped accessible configuration nearby. All water coolers will have integral bottle fillers mounted above the handicap cooler. Restrooms, kitchen and mechanical room will have floor drains with trap primer connections & valves. Hose bibs are required in restrooms with more than one flushing fixture.

Shower stalls are made from mud-set tile. Non-handicap shower shall have a terrazzo base and the handicap shower stalls have tiled floors with a center floor drain. For non-handicap showers, a shower drain and shower valve with fixed showerhead will be installed (2 total). For handicap showers, a shower drain and shower valve with a hand shower on slide bar (ADA compliant) shall be provided for each (4 total).

Any rooms with sinks except art & science rooms will have a self-rimming stainless steel sink with gooseneck type faucets (Chicago#201-RSGN8AE35VPXKABCP or equal). Sinks located in classrooms which are piped off of the main domestic hot water system shall have point of use mixing valve to ensure the hot water temperature does not exceed 112°F. Hose bibs are provided in any bathroom that has a floor drain and the mechanical room. Exterior non-freeze wall hydrants will be provided as requested by the owner as they are not required by code. There will be a mixture of non-freeze wall hydrants and roof hydrants mounted at the roof to clean the HVAC equipment and solar panels.

Science Classrooms will be provided with gooseneck faucets for the classrooms sinks with integral vacuum breakers and serrated nozzles. The student and demonstration tables shall have mixing faucets (Chicago Faucets model #LWM2-B11-A) and the handicap lab sinks shall have similar faucets with wrist blade handles (Chicago Faucets model #LWM2-A13-A).

Art Classrooms will be provided with two (2) 36"x17"x8"deep self-rimming stainless steel sinks with a faucet and drain each. Also, each Art Classroom will also be provided with one (1) 19"x18"x6.5"deep self-rimming stainless steel sink with a faucet and drain which is ADA compliant. The faucets shall be similar to Chicago Faucets model #201-AE35XKABCP or equal. Each sink will be provided with a solids interceptor, in lieu of a p-trap, mounted in the base cabinet. A solids interceptor is designed to recover all types of solids which enhances sanitation through efficient prevention of clogged waste lines. All sinks will be provided with a cup strainer.

There shall be emergency fixtures installed in all the Science Classrooms and Prep Rooms, the Chemical Storage Room, and STEM rooms as required by code. There is a mixture of styles for these fixtures.





3.3.3 FINAL EVALUATION OF ALTERNATIVES

Feasibility Study PSR

D.1 Basis of Design Narratives f. Plumbing

Combination emergency showers and eyewash units shall be exposed floor mounted style that is handicap accessible (Chicago Faucets model #8405–NF or equal). In the mechanical room, a single eyewash/facewash fixture shall be installed within the room and readily accessible (Chicago Faucets model #840–NF or equal).

Mop sinks throughout the school shall be floor mounted molded stone basins with 10" high walls. The specified Fiat model #MSBID-3624, or equal, shall be overall outside dimensions of 36"x24"x10" and shall have an integral drain. Wall mounted, manual mop sink faucets shall be similar to Moen model #8124 or Chicago Faucets model #445-897SRCXKCP, or equal. The sinks shall have the following accessories: mop hanger, hose and hose bracket.

Roof Storm Drainage System

Roof is sloped to interior roof drains. The storm drain system will incorporate primary roof drains at low points and emergency overflow roof drains with 4" high internal water dams in case the primary roof drain fails. The drawing indicate side-by-side roof drains, but bi-functional roof drains can also be utilized. The primary roof drains will be piped to internal rain leaders and combine below grade to several exit locations to connect to the site storm drainage system. The emergency roof drains will be piped to discharge independently from the primary building storm system and shall terminate a minimum of 18" above grade. A wall lip will be provided at the outlets without screens to keep water off of the building.

Since the building is fully air conditioned, the HVAC system will produce condensate. Per the MA Plumbing Code, this is considered "Clear Water Waste" and only 12.5 gallons per hour, or 300 gallons per day, may be discharged to the sanitary drainage system. Alternate discharge locations are outside or to the storm drain system. Pipe connections to the storm drains/rain leaders must be made using standpipes with vented p-traps connected to backwater valves to prevent back-ups.

Sanitary Systems

The sanitary sewer system within the building envelope to 10' beyond the building foundation wall shall be service weight cast iron and will drain by gravity. External to the building, underground PVC piping shall be used or other material as dictated by the site engineer. The entire building can be drained by gravity, so a sewerage ejector pump system is not required for the sanitary waste.





3.3.3 FINAL EVALUATION OF ALTERNATIVES

Feasibility Study PSR

D.1 Basis of Design Narratives f. Plumbing

The science rooms and prep rooms have sinks and floor drains that discharge through a separate piping system since they are considered "Special Hazardous Waste" per code or Lab Waste. The pipe material can be PVC, CPVC, FRPP (fire retardant polypropylene) or PVDF (polyvinylidene fluoride) which are all resistant to a broad range of acids and corrosive chemicals, but each has different strengths and weaknesses with certain chemicals. All waste from the science labs generating acidic waste shall be run through a passive acid neutralizing tank with outflow pH sampling tank connected to a pH monitor. Currently the pH system is located in a vault at the rear of the school near the exterior grease trap.

In addition to a two local grease traps serving the dishwasher and pre-rinse sink (GI-1); as well as the pot sink and floor troughs (GI-2), all waste requiring treatment (i.e. floor drains and floor sinks at or near the cooking line) from the kitchen shall be piped to a large exterior grease trap prior to discharge to the municipal sewer system. Fixtures that do not require treatment such as hand sinks, floor drains or floor sinks receiving clear water waste, prep sinks and discharge from disposers/food waste grinders, could be piped to the sanitary sewer system. Currently, the entire kitchen is piped to the exterior grease trap.

There are two sanitary sewer exits from the building instead of combining all of the drains and exiting once. This is required for several reasons.

- Due to water saving measures, low flow fixtures have had a negative impact on the sanitary sewer system creating clogged pipes. Reducing the overall drainage system length should theoretically reduce clogging within the building.
- 2) The building layout lends itself to multiple sewer exits.

In an effort to prevent sanitary sewer stoppages or clogs, we recommend the following:

- 1) Keep the sanitary sewer runs as short as possible. In the current design, a distance of 250 feet is considered short.
- 2) Slope all sanitary drain lines at ¼" per foot (2%) below grade. This is only required for 2" or 3" drain lines per code, but the piping slope increases the drain line carry from a fixture.
- 3) Discuss toilet paper options with the owner as this will impact the drain line performance.





Feasibility Study PSR

3.3.3 FINAL EVALUATION OF ALTERNATIVES

D.1 Basis of Design Narratives f. Plumbing

Above ground sanitary drainage and will be piped in cast iron with "no-hub" joints. (3" or larger). Piping smaller than 3 inch will be piped in copper. Piping below floor shall be service weight cast iron hub and spigot with rubber gaskets.

Radon Systems

Each section of the building will have a radon system installed (i.e. building divided into sections by the architect). The system consists of perforated PVC piping directly under a vapor barrier below the slab which is piped to a vertical riser to the roof. Above the roof, a radon fan is installed which provides a negative pressure below the slab. This captures the radon vapors and discharges them above the roof instead of rising through the floor. Each radon system (8 total) will have two fans, one primary and one back-up. The stainless steel piping at the roof will extend 10 feet above the roof (called a mast). Note that the stainless steel mast and radon fans will be furnished and installed by the HVAC contractor. The fans are monitored by the BMS (Building Management System). Please note that this system is recommended due to possible elevated radon levels at this site.

Sub-Soil Drainage Systems

The sub-soil drainage systems will be installed by the site contractor as they do not connect to the municipal storm water drainage system. Most of the sub-soil drainage pipes will be installed below the proposed underground plumbing.

Domestic Cold Water Service

New main 5" domestic water supply in the water room will be installed from the new looped water main that circles the building. A Reduced Pressure Backflow Preventer will be provided to the main domestic water supply to protect the service (per the DEP regulation 310 CMR 22). Boiler/Chiller water feed and make-up, and any other mechanical take-off's will branch off through a reduced pressure-principle backflow preventer. The science lab cold water feeds will need to be a protected water supply, therefore a reduced pressure backflow preventer will be installed in the mechanical room to service these fixtures.

LEED recommends monitoring the water usage in multiple systems to determine how the water is used and how much water is used for the processes. For schools, water sub-meters are added to the domestic hot water system cold water feed and to the heating plant cold water feed. In this building, there will also be a chilled water plant, so multiple water feeds and sub-meters may be required.





3.3.3 FINAL EVALUATION OF ALTERNATIVES

Feasibility Study PSR

D.1 Basis of Design Narratives f. Plumbing

There may be a site irrigation system installed for this site. If required, this is piped before the domestic water service entrance building water meter and will have a separate water meter installed. The purpose is to meter water that does not go down the drain to the sewer treatment plant (different rate charge for water use). This will have an RPZ Backflow Preventer installed and a PRV, if required. There will be a separate piping system for the site irrigation system. Based on the street water pressure, this system will not require a water pressure booster pump.

A water analysis will need to be performed to see if water filtration or water softeners are required. There are point-of-use water filters installed for some of the kitchen equipment (ice maker and combiovens), but these are mainly for odor and taste. We are assuming a whole building system is not required for either..

The domestic cold water piping inside the building will be distributed in "L" type copper tube with wrought or cast copper fittings. Press-fit fittings are allowed as an alternate joining method to soldering. The piping will be insulated to prevent condensation. Note that polypropylene, an alternate piping material, is acceptable in MA, but it does not meet the flame spread and smoke development rating required and would need to be protected in plenum spaces with insulation.

Domestic Hot Water Service

The domestic hot water will be generated by a heat pump water heater system. The specified system is a Mitsubishi Heat₂O system which is an all–electric domestic hot water (DHW) heating system. The Heat₂O heat pump water heater reduces the environmental impact of DHW through energy–efficient operation while using CO₂, a natural and environmentally friendly refrigerant with a global warming potential (GWP) of one and an ozone depletion potential (ODP) of zero. The system includes pre–assembled and pre–plumbed components designed and selected to ensure installation quality and ensure optimal performance of the heat pump. Components include hot water storage tanks, swing tanks, secondary heat exchangers and variable–speed secondary circuit pumps.

Heat₂O transfers ambient thermal energy from outdoor air to potable water by cycling refrigerant. Natural CO₂, refrigerant enables Heat₂O to supply hot water up to 176°F even in low ambient conditions without burning fossil fuels.

Using Mitsubishi Electric's patented Twisted Spiral Gas Cooler, the system achieves highly efficient heat exchange with three refrigerant lines wrapped around a twisted water pipe.





3.3.3 FINAL EVALUATION OF ALTERNATIVES

Feasibility Study PSR

D.1 Basis of Design Narratives f. Plumbing

The CO_2 refrigerant flows in the opposite direction of the water. Running the refrigerant lines along the pipe's grooves increases the heat conductive area while the spiral helps create a vortex in the pipe, accelerating the turbulence effect of water and reducing pressure loss in the heat exchanger. Additionally, the copper pipes make for double-walled construction.

An INVERTER-driven scroll compressor increases Heat_2O 's energy efficiency by enabling the system to modulate refrigerant flow and heating capacity to match loads.

Heat₂O can provide over four times more energy as heat than the system consumes in electricity. With a coefficient of performance of up to 4.52, Heat₂O offers energy savings of 60 to 70% for building owners and tenants compared to electric-resistance water heaters. Energy savings combined with incentives from utilities can ultimately offset first costs.

 $Heat_2O$ can operate at high capacity even in cold climates such as climate zones 5 and 6. The system delivers 100% heating capacity of 40 kW at ambient temperatures as low as 36° F. When down to -13° F outside, the system can still supply 176° F hot water but at 50% of the heating capacity.

In extreme cold, Heat₂O's compressor uses flash-injection technology to operate at high speed, maintaining high discharge pressure and ensuring the compressor shell is kept cool at all times to capture ambient heat.

Heat₂O heat pump water heater is capable of operating at three capacities: 136,485 BTU/H (40 kW), 170,607 BTU/H (50 kW) and 204,728 BTU/H (60 kW). Up to six units can be piped in parallel for a maximum size of 682,425 BTU/H (240 kW).

This system shall be used to support the buildings domestic hot water needs. The domestic hot water distribution system will be recirculated from the furthest points in the school back to the storage tanks. There will be one hot water piping systems within the building to serve everything. The other system will operate at 125°F. Each lavatory and hand sink faucet will reduce the hot water temperature to 110°F at the outlet.

The domestic hot water will be reduced in temperature via a central thermostatic mixing valve in the mechanical room. A second mixing valve will be installed on the emergency shower/eyewash system water feed with recirculation loop. This system will provide 75–80°F tempered water to these fixtures only and will incorporate mono–flo fittings to maintain constant flow to the fixture inlet to minimize stagnation.





3.3.3 FINAL EVALUATION OF ALTERNATIVES

Feasibility Study PSR

D.1 Basis of Design Narratives f. Plumbing

The science lab hot water feed will need to be a protected water supply, therefore a reduced pressure backflow preventer will be installed in the mechanical room to service all of the science lab fixtures. Since the protected hot water cannot be recirculated to the domestic hot water system, electric temperature maintenance heat trace will be installed for the entire run serving the science rooms.

Sustainable Opportunities:

Many of the proposed fixtures and control sequences noted above minimize water usage and conserve energy however, further optimization may be obtained by investigating the use of storm water recovery systems. These systems collect, filter and utilize storm water to supply water to water closets and urinals throughout the building. In addition, vacuum tube thermal solar panels mounted on the roof can be considered to supplement the building domestic hot water needs. If geo-thermal systems are utilized, then installing a desuperheater with transfer heated gases from the heat pump compressor to the water heater, but note in the winter months, a desuperheater does not produce enough so electric resistance back-up heaters are used in the hot water tanks to achieve the desired hot water temperature. A life cycle evaluation must be performed to ascertain the initial first costs, annual operating costs and projected savings associated with such a system.

Also, there is a higher efficient water closet available that is 1.1 GPF vs. 1.28 GPF. There is a concern that there will not be enough water discharged from these fixtures for drain line carry, thus creating blockages in the piping, leading to sewer back–ups. We feel that even though a LEED point could be gained, it is not worth the risk and aggravation.

End of Plumbing Narrative





5. HVAC

HVAC - Basis of Design

BUILDING CODE SUMMARY

The HVAC systems and components shall be designed in accordance with the requirements of the Commonwealth of Massachusetts State Building Code – 9th Edition, 780 CMR. In addition, the systems shall conform to the energy conservation requirements of Chapter 13 of that code which references the International Energy Conservation Code (IECC) 2021 with MA amendments. Ventilation requirements shall meet or exceed those requirements of ASHRAE Standard 62.1 – 2016 'Standard for Ventilation and Indoor Air Quality' with review of the more recent 2022 version. In addition, there is an on-going effort to comply with ASHRAE Standard 241–2023 'Control of Infectious Aerosols' especially within classroom areas.

We do understand that the 10th edition of the building code shall most likely will be release and enforced at the time this project is permitted for construction. Although this is a code has yet to be published, we plan to have our design meet and in most cases exceed the current code requirements particularly with regard to ventilation and system efficiencies.

DESIGN CRITERIA

As noted previously, the HVAC systems and components are designed in accordance with the requirements of the Commonwealth of Massachusetts State Building Code – 9th Edition, 780 CMR, and conform to the energy conservation requirements of Chapter 13 of that code referencing IECC 2021 International Energy Conservation Code with MA amendments.

The Clinton Middle School is located in Clinton, MA and the systems design and loads comply with the criteria for Climate Zone 5A. Outdoor design conditions utilized were from the nearest weather station at the Worcester Regional Airport :

Heating Degrees Winter:		2.4ºF
Cooling Degrees (db) Summer:	85.8°F	
Cooling Degrees (wb) Summer:		70.9ºF

Interior design temperature set points are 70°F for heating and 75°F for cooling (for spaces with cooling cycles) during occupied conditions. Setpoints shall insure a minimum 5 degree deadband between cooling and heating exists. Space conditions are allowed to drop to 62°F during the heating season and rise to 83°F during the cooling season when spaces are in the unoccupied condition. Morning warm-up





4.1.2 SCHEMATIC DESIGN BINDER I. Building Systems Narratives

5. HVAC

or cool-down period is optimized to achieve design space conditions at the commencement of occupied periods.

Design occupant levels by space are contained within the architectural documents included as part of the approved schematic documents.

Outside air ventilation requirements are based on the ICC International Mechanical Code 2015 as referenced by the building code as well as cross references to ASHRAE Standard 62.1 – 2016 'Standard for Ventilation and Indoor Air Quality' with review of the more recent 2022 version. In addition, there is an on-going effort to comply with ASHRAE Standard 241–2023 'Control of Infectious Aerosols' especially within classroom areas. Ventilation requirements are based on space use, room occupancy, square footage and ventilation effectiveness.

Cooling and heating load calculations were performed utilizing the design data referenced above. Hourly Climate data for Worcester, MA was selected for load and energy calculations in that it offers the most applicable environmental conditions for the project site.

The building heating and cooling load requirements under peak design load conditions as indicated above are estimated as follows and are preliminary pending further advancement of building plans for improved load estimation:

	Heating Load	Cooling Load	Tons
Building Loads	3,300,000 BTUH	4,200,000 BTUH	350

The estimates do not include localized cooling loads for tel/data and MDF rooms.

BASIS OF DESIGN

The design incorporates a hydronic based hot water and chilled water system to support a majority of the buildings classroom spaces. This style system was chosen to reduce the refrigerant loading within the occupied spaces due to new refrigerant flammability concerns as well as allow for improved future compatibility with new technology such as clean hydrogen boilers, CO2 heat pumps, etc.... All building HVAC systems do not rely on the use of on–site fossil fuels.

The hydronic systems feed out to the various building terminals and are supplied by modular water to water heat recovery chiller/heater heat pumps with source water fed from a closed loop geothermal




MSBA Module 4 Schematic Design

4.1.2 SCHEMATIC DESIGN BINDER I. Building Systems Narratives

5. HVAC

heat exchange ground loop. The heat pumps can generate chilled water, hot water or both simultaneously if needed based on building demand. A 4-pipe chilled water and hot water system is proposed which provides improved flexibility.

The hydronic system is designed for low temperature (125°F maximum) hot water and elevated temperature (57°F minimum) chilled water so as to maximize efficiency of the heat pump chiller/heaters. These temperatures also allow for future integration of more efficient equipment as technology advances.

Fresh air to all spaces shall be provided by new dedicated outdoor air systems (DOAS) consisting of high efficiency custom and packaged rooftop heat pump units. These units shall provide tempered, filtered and dehumidified air to all spaces served. The units shall incorporate high efficiency heat pump cycles, hot gas reheat or heat pipes, total energy recovery wheels, variable speed supply and exhaust fans and back-up heat consisting of electric heat. These DOAS units shall be independent of the central hydronic hot and chilled water system.

Fresh air to each space shall be controlled via variable air volume (VAV) and fan-powered variable air terminals. In classrooms and many other areas, to achieve improved room air rotation and filtration, we recommend DOAS style fan powered variable air volume (FVAV) terminals fitted with MERV 13 filtration, hot water coils and sensible only chilled water coils. Distribution to the rooms shall be either mixed air or optimally via displacement ventilation with low wall supply diffusers.

As a supplemental back-up to the heat pump chiller-heater, hot water shall be provided by electric boilers located in the main mechanical room. The heating water is distributed to the fin-tube radiation, cabinet and unit heaters, select FVAV's and fan coil units located throughout the building.

Cooling for the building is supported by various types of systems based on space type and use varying from the central air cooled heat recovery chiller/heaters to VRF heat pumps and air source heat pumps.

A brief description of the types of systems for the respective areas is as follows:

Standard Classrooms:

A closed loop ground coupled geothermal field provides source fluid to a high efficiency modular water to water heat recovery chiller/heater plant. This plant supports a majority of the space cooling and





MSBA Module 4 Schematic Design

4.1.2 SCHEMATIC DESIGN BINDER I. Building Systems Narratives

5. HVAC

heating needs of the classroom wings of the structure by suppling chilled water to DOAS FVAV units located throughout these areas as well as hot water to coils and fin-tube radiation. The chiller has a capacity of 150-tons+/-. The chiller shall incorporate multiple variable speed compressors for high part load (IPLV) energy efficiency ratings. Elevated chilled water temperature (57°F+/-) and low hot water temperatures (125°F+/-) also result in higher chiller/heater efficiencies.

Two (2) glycol anti-freeze to water heat exchangers and duplex pump sets shall be provided between the chiller/heater and the building chilled water and hot water loops to minimize the amount of glycol required, as a reduction in heat transfer efficiency can occur with the use of glycol. In addition, duplex pump sets shall be provided for distribution of building hot water and chilled water. A separate duplex set of pumps shall circulate glycol between the chiller/heater and geothermal field.

Chilled water shall be delivered at an elevated 57°F+/- temperature to the classroom wing FVAV's and fan coils. Most DOAS style FVAV's serve displacement diffusers. Each chilled water coil shall be controlled by a zone valve operated by the building energy management system (EMS) to respond to space temperature demands.

Outdoor ventilation air for the standard classrooms shall be provided via roof mounted dedicated outdoor air units (DOAS) of varying size. The DOAS units shall be custom fabricated units incorporating total energy recovery wheels, DX cooling and heat pump coils, wrap around heat pipe coils and electric back-up heat. Each unit shall be coupled to roof mounted VRF style DX air cooled condensing units with variable speed compressors for high full load (EER) and part load (IEER) energy efficiency ratings.

Dedicated outdoor air style fan powered variable air volume (FVAV) terminals connected to displacement diffusers in most spaces. These units shall vary airflow based on Indoor Air Quality using space temperature, CO₂ and humidity information.

Heating for classrooms and many other spaces with exterior exposures shall be accomplished through the use of fin-tube radiation as the primary form of heat. Interior spaces shall incorporate VAV/FVAV mounted hot water coils.

Science, Art Classrooms and Maker Spaces:

As these style areas require high levels of 100% outside air ventilation and exhaust, they shall be supported off dedicated packaged VAV rooftop heat pump units with total energy recovery wheels, electric back-up heat, cooling, heating and dehumidification cycles utilizing DX based system with hot





4.1.2 SCHEMATIC DESIGN BINDER I. Building Systems Narratives 5. HVAC

gas reheat cycle. The units shall incorporate variable speed compressors for high full load (EER) and part load (IEER) energy efficiency ratings.

DOAS type fan powered variable air volume (FVAV) terminals on the supply air and VAV terminals on the exhaust air from each room shall connected to ceiling air terminals. The FVAV and VAV's shall control to maintain required space pressure relationships as well as Indoor Air Quality using space temperature and CO2 information.

Heating for science and art rooms shall be accomplished through a mix of fin-tube radiation as well as FVAV mounted hot water coils.

Offices, Media Center & Music :

Spaces shall be supported by a VRF heat pump system coupled to packaged DOAS VAV rooftop heat pump units with total energy recovery wheels, electric back-up heat, heating, cooling and dehumidification cycles utilizing DX based system with hot gas reheat cycle. The units shall incorporate variable speed compressors for high full load (EER) and part load (IEER) energy efficiency ratings.

Supply air variable air volume (VAV) terminals connected to each zone space shall vary airflow based on Indoor Air Quality using space temperature, CO2 and humidity information.

Heating for these areas shall be accomplished through the VRF heat pump system with some fin-tube radiation in spaces with large glazing exterior exposures.

Gymnasium and Cafeteria:

Space shall be supported by packaged rooftop unit with total energy recovery wheels, electric back-up heat, heating, cooling and dehumidification cycles utilizing DX based system with hot gas reheat cycle. The systems shall control to vary total air volume, outdoor air volume as well as supply air temperature to control as a single zone VAV. Several anti-stratification fans shall be used to bring warm-air down from the high ceiling/roof areas.

Exhaust and Other Systems:

Exhaust fans shall vent specific areas such as bathrooms, storage areas and the kitchen. All exhaust fans shall have efficient ECM motors which shall vary speed where applicable. Kitchen hood system





4.1.2 SCHEMATIC DESIGN BINDER I. Building Systems Narratives 5. HVAC

shall have variable flow capabilities using smoke and/or heat sensors to vary exhaust airflow and associated make-up air based on cooking demand.

Supplemental ductless split systems are located in IT closets and other similar rooms requiring such. Cabinet and unit heaters are located at building entrances and other areas to mitigate drafts from entering internal building spaces.

Controls:

The school is designed with a direct digital control (DDC) energy management system (EMS) that monitors and controls the HVAC equipment for efficient use. The system is designed on PC based architecture and adjustments are made on a graphics-based presentation of building systems. The system also supports maintenance and record keeping needs of the facility. Occupancy of the school is based on the standard school year with occupied/unoccupied conditions based on current school day practice. This is an adjustable feature that can be made to reflect additional operating needs and use of the school building by staff or others.

The adjustable operating schedule, in general, is from 7:00 a.m. to 5:00 p.m., five days per week. It is expected that the building or certain areas within the building will also be used several evenings a week and on weekends.





Meeting Minutes | BMS Complexity

Attendees:

- Steven Meyer | Superintendent of Schools | CPS
- Robert Seed | Assistant Principal, CMS
- Brian Farragher | Director of Facilities & Grounds, TOC •
- Eric Moore | Senior Project Architect | LPA|A •
- Sean Brennan | Project Architect | LPA|A •
- Peter A. Caruso, Jr. | Project Manager | LPA|A •
- Kevin Seaman | Seaman Engineering, Inc (SEI) •
- Trip Elmore | Owner's Project Manager | D&W •
- Elias Grijalva | Owner's Project Manager | D&W •

Item:	Description:	Responsibility:
08.08.23.01	 Purpose: The purpose of this meeting is to review the level of complexity that the Owner expects for the building management system (BMS) as well as touching upon training and maintenance of the mechanical system throughout the building. 	Info.
08.08.23.02	 Existing Conditions: The existing elementary school uses Automated Logic for its BMS system; there is nothing in use at the existing high school. Owner advised that there is no need for a proprietary specification for the middle school project. 	Info.
08.08.23.03	 Open Access Control: SEI will write the specification to allow for more than one vendor to be able to service the BMS. 	
08.08.23.04	 Packaged Units vs. Stripped Down Units: On recent projects, SEI has been specifying the units without fully packaged manufacturer's controls. Units with compressors shall have refrigeration related controls to maintain manufacturer safeties and warranty. 	Info.





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Meeting Minutes | BMS Complexity





Meeting Minutes | BMS Complexity

ltem: 08.08.23.07	Description: Training: A training process will be specified for this project. Recording	Responsibility:	
	each training session will also be specified for future use by the Owner. D&W expressed concern with current staff retiring and future staff not understanding how to manage the BMS since they weren't trained.	Info.	
08.08.23.08	Spaces with AC:		
	General discussion was had with Owner relative to what spaces will be provided with air conditioning within the building. Those spaces include the following: Cafeteria		
	 Main Administration Special Education Miscellaneous IT data rooms, select offices, etc. 	Info.	
	Remaining spaces will have tempered air dehumidification. Owner was reminded of added equipment and operational expense with air conditioning. Kevin reminded attendees that air conditioning of entire building was included in the PSR narrative.		
08.08.23.09	Maintenance: There will be a 1-year warranty for the equipment from the installer. A multi-year maintenance contract is not allowed to be included in a public bid project.		
08.08.23.10	Additional Meetings: There will be follow up meetings with attendees as the project develops including with the fire department.		
Attachments:			
Minutes by:	Peter A. Caruso, Jr.		
Distribute to:	Attendees		
File location:	I:\PROJECTS\2022\2220 - Clinton Middle School\MINUTES\Owner\2023.08.07 BMS\2220-MO-BMS Complexity.docx		





Schematic Design

BASIS OF DESIGN - ELECRICAL SYSTEMS

A. ELECTRICAL SERVICE

- 1. Provide 2–4" Schedule 40 electrical primary duct bank to a utility company padmount transformer located on the exterior of the building. The primary duct bank shall be encased in 3" of concrete.
- 2. Provide secondary electrical service conductors, main switchboard and distribution equipment in the main electrical room.
- 3. The electrical service shall be 4000A, 65kAIC, 480/277V, 3-phase, 4-wire fed by eight sets of 4-600kCMIL copper cables in 10-4" Schedule 40 PVC conduits.
- 4. Provide 4–4" Schedule 40 PVC telecommunications underground duct system to the entrance facility. The telecommunications duct bank shall be encased in 3" of concrete when running under vehicular traffic areas and roadways.
- 5. Coordinate with utility company to disconnect power to the existing building at the end of construction to facilitate demolition by the Construction Manager.

B. EMERGENCY POWER

- 1. Provide diesel backup generators to feed life safety and optional standby loads, as well as transfer and distribution equipment.
- The generator shall be rated 600kW/750kVA, 480/277V, 3-phase, 4wire with duct mounted load back sized at 30% of the generator kW rating, fuel polishing system and 700-gallon fuel tank.
- 3. The generator shall be housed in a factory standard Level 2 weatherproof sound attenuated enclosure furnished with steel platform and stairs.
- 4. The generator shall be integrated with the BMS system for alarm monitoring and reporting.
- 5. Emergency equipment must be separated from normal and standby power equipment per the Massachusetts Electrical Code.
- 6. The emergency power system shall be divided into two branches:





Schematic Design

- a. Life Safety Branch: all life safety branch equipment shall be installed in 2-hour rated rooms. All life safety branch feeders shall be 2-hour rated MI cables. The life safety branch shall supply power to:
 - 1) Egress and exit lighting
 - 2) Alarm and alerting systems
 - 3) Emergency communications systems
 - 4) Elevator cab lighting
 - 5) Automatic doors.
- b. Optional Standby Branch: shall power the entire community side of the building. Additionally, the standby branch shall supply power to:
 - Boilers, associated controls and associated pumps to keep building from freezing.
 - 2) Telecom and server room lighting, power and ac systems.
 - 3) Building management system (BMS).
 - 4) Power outlets at roof equipment, mechanical room, loading area, cafeteria and kitchen.
 - 5) Radon fans on roof.
 - 6) Selected kitchen and cafeteria loads.
 - 7) Selected mechanical loads.

C. SUB-METERING

- 1. Provide a digital sub-metering system capable of providing electrical consumption data.
- 2. End-Use Metering Categories
 - a. Meters or other approved measurement devices shall be provided to collect energy use data for each end-use category indicated below.





Schematic Design

- Where multiple meters are used to measure any end-use category, the data acquisition system shall total all of the energy used by that category. No more than 5 percent of the measured load for each of the end-use categories shall be permitted to be from a load that is not within that category.
- c. Energy Use Categories
 - 1) Total Building Consumption
 - 2) Total HVAC system
 - 3) Interior lighting
 - 4) Exterior lighting
 - 5) Plug loads
 - 6) Process load
 - 7) Building operations and other miscellaneous loads
- D. GENERAL PURPOSE POWER
 - 1. See drawings and Room Data Sheets for receptacle quantities in each space.
 - 2. Multiple service floor outlets or fire rated poke-through devices shall be provided for equipment and appliances in the commons areas when the equipment is to be placed on worktables, counters, systems furniture, or cabinets that are not against fixed walls.
 - 3. Multi-outlet raceways or surface mounted wiring devices shall be provided where it is not feasible to install recessed outlets.
 - 4. All general-purpose receptacles in offices and classrooms shall be controlled via vacancy sensor and/or time clock integrated with the lighting control system.
- E. LIGHTING
 - 1. Provide a high efficiency lighting system in all interior spaces as well as on the exterior of the building. The design aim is to deliver a lighting system with a light power density not exceeding 0.5W/sq. ft. All light fixtures shall be LED type.
 - 2. Interior lighting shall be controlled with an automatic control device to shut off building lighting in all spaces. This automatic control device shall function on either:





Schematic Design

- a. A scheduled basis using a time of day operated control device that turns lighting off at specific programmed times; or
- b. An occupant sensor that shall turn lighting off within 20 minutes of an occupant leaving a space; or
- c. An unscheduled basis by occupant intervention.
- 3. Each space enclosed by ceiling-height partitions shall have at least one control device to independently control the general lighting within the space. Each control device shall be activated either manually by an occupant or automatically by sensing an occupant.
- Each perimeter office space enclosed by ceiling-height partitions shall have a manual control to allow the occupant to uniformly reduce the connected lighting load by at least 50% or shall be provided with automatic daylighting controls.
- 5. Each perimeter classroom space shall have a manual control to allow the occupant to uniformly reduce the connected lighting load by at least 50% and shall be provided with automatic daylighting controls. The classrooms shall have the ability to dim or switch off lights at the presentation/teaching front wall. The lighting controls shall be integrated with the HVAC controls.
- 6. Provide LED emergency egress and exit lighting fed from the emergency life safety branch of the emergency/standby system.
- 7. Integrate lighting control system with the BMS system to optimize energy performance of the building.

F. EXTERIOR LIGHTING

- Pedestrian walkways shall be designed for illuminance value at the ground plane of 0.6 foot-candles, the minimum illuminance shall not be lower than 0.15 foot-candles.
- 2. All parking lots shall be designed for illuminance value at the ground plane of 1.0 footcandles, the minimum illuminance shall not be lower than 0.2 foot-candles.
- 3. Roadways shall be designed for illuminance value at the ground plane of 0.6 footcandles, the minimum illuminance shall not be lower than 0.15 foot-candles.
- 4. Pedestrian walkway lighting shall be LED bollard fixtures; parking and roadway lighting shall be LED fixtures mounted on 20 ft. aluminum poles.





Schematic Design

- G. FIRE ALARM
 - 1. Provide an addressable fire alarm system with voice evacuation and connection to the fire department.
 - The design of the fire alarm system shall be based on engineering criteria as defined by NFPA 72 and The Massachusetts State Building Code 780 CMR. The system shall be supported by standby batteries. The batteries shall support 24-hours of full supervisory operation followed by 15 minutes of alarm.
 - Provide combination audiovisual signaling appliances as required per NFPA 72. Standalone devices may be used to augment combination units when necessary. The audiovisual notification appliances shall be located in all egress pathways, classrooms, public and common areas. Provide visual devices in all offices. The devices shall be in compliance with the Americans with Disabilities Act (ADA).
 - 4. Manual pull stations shall be located within 5 ft. of each means of egress and mounted at 44 in. above the floor to the activating lever of the box. The pull stations shall mechanically latch upon operation and remain so until manually reset by a key common to all system locks.
 - 5. Photoelectric smoke detectors shall be located in all egress pathways spaced 30 feet on center, and 15 feet from all stairwells and opposing walls. Smoke detectors shall also be located at the top, bottom of each stairway; mechanical equipment; electrical; transformer; telephone equipment; elevator machine; or similar room. Elevator recall smoke detectors shall be located in the elevator lobby on each floor.
 - 6. Sprinkler tamper and flow devices shall be wired for trouble and alarm indication into the fire alarm control panel.
 - 7. Provide public safety radio distributed antenna system.

H. TELECOMMUNICATIONS CABLING INFRASTRUCTURE

 Provide a telecommunication cabling infrastructure in compliance with the latest TIA standards. The utility company services shall be terminated in a telecommunications entrance facility (EF). Fire rated plywood backboards, grounding, equipment racks, 110-type punch down blocks, patch panels, conduit sleeves, and corridor cable tray system shall be provided in the EF, the telecommunications equipment room (TER) and the telecommunications rooms (TR). The pathway system, racks and equipment shall





Schematic Design

be sized for complete utilization of the service entrance cables and all voice and data outlets plus room for a minimum of 50% growth.

- 2. Voice and data outlets shall be provided in all administration areas and in the classrooms. Voice and data horizontal cabling shall be Category 6A, unshielded, twisted pair, 8 conductor copper cable from each jack to the nearest telecommunications closet. Wireless access point cabling shall be Category 6A, shielded, twisted pair, 8 conductor copper cable from each jack to the nearest telecommunications closet. Each end of each cable shall be labeled.
- 3. See drawings and Room Data Sheets for quantities of data outlets in each space. Wi-Fi access point outlets shall be provided throughout the building.
- 4. Backbone cables shall be provided between the EF, TER and each TR. Copper backbone cables shall be voice grade Category 3 cable. Optical fiber cables shall be 24–strand (50/125µm) OM4 multimode laser optimized and 24–strand single mode cables. The cables shall be terminated in fiber optic patch panels at both ends. The circuits shall be tested for insertion loss at both ends at 1310 and 1550nm. High–resolution Optical Time Domain Reflectivity (OTDR) tests shall be performed on each fiber at one end.

I. PUBLIC ADDRESS & CLOCK SYSTEM

- 1. A public address (PA) and digital clock system shall be provided throughout the building.
- Speakers shall be located in classrooms, administration areas, assembly areas and in public and common areas. Classroom speakers shall be talk-back type. Two emergency call stations shall be provided in each classroom, as well as in all instructional and public areas.
- 3. The system shall provide the front office with the ability to make announcements throughout the building premises, to a limited area, or to an individual room. Any telephone handset in the building shall be capable of initiating a page. In the front office, the administrative staff can select whether they want to initiate or respond to a call via the PA attendant handset, make announcements or play background music through the speaker. The system shall be capable of supporting multiple and simultaneous communications.



Clinton MiddleSchool

Schematic Design

4. A master time & control system shall be provided. The system shall comprise a master clock that controls and synchronizes the time on peripheral digital clocks located throughout the school. The system shall also control other peripheral devices such as bells, etc. and utilize the school public address system to sound pre-programmed tones for class changes. Clocks shall be provided in classrooms, offices, public and assembly areas, and in administration areas.

J. DATA COMMUNICATIONS EQUIPMENT

- 1. Data communications equipment shall comprise a server and storage farm, and 10/100/1000 Power-over-Ethernet (PoE) switches.
- 2. The servers and storage shall provide a platform on which to run applications, like the school's enrollment and financial databases as well as student and teacher applications.
- 3. The switches shall provide connection of a number of devices together (PCs, servers, printers, etc.) over a wired data system and control access to various parts of the network.
- 4. Provide data network switches based on Extreme Networks.
- 5. Provide access points in each classroom, instructional space, and in public and assembly spaces. The basis of design shall be Cisco Meraki with cloud management.

K. VOICE COMMUNICATIONS EQUIPMENT

- Provide a voice communications system. The system shall comprise of a voice-over-IP (VoIP) telephone switching system, voicemail, distribution infrastructure, and telephone handsets. Telephone handsets shall be provided in each classroom, in each administration office, gym, and cafe and in each telecommunications/electrical room.
- 2. Provide VoIP telephone system and handsets based on Mitel.
- L. AUDIO-VIDEO SYSTEMS
 - 1. Provide integrated audio-video systems in the following spaces:
 - a. Gymnasium
 - b. Cafeteria





Schematic Design

c. Media Center

M. IN-CEILING CLASSROOM AUDIO SYSTEM

- Provide speech reinforcement system in each classroom and instructional space. The basis of design shall be Lightspeed Topcat Classroom Audio 2-way Communication System.
- 2. The speech reinforcement system shall consist of:
 - a. Two pendant-style Flaxlike® teacher microphone utilizing Access Technology (1.9 GHz) for transmission.
 - b. Wireless Media Connector utilizing Access Technology (1.9 GHz) to integrate with and wirelessly transmit all classroom multimedia to be played through the Topcat.
 - c. In ceiling all-in-one whole group audio system to enable communication to the whole class with Access technology and integrated amplifier and speaker system.

N. IN-BUILDING CELLULAR AMPLIFICATION SYSTEM

- 1. Provide in-building cellular amplification system to amplify cellular signal within the building. Coverage shall include all classrooms, offices, public and common areas.
- 2. The system shall consist of:
 - a. Donor antennas that are mounted outside of a building in order to capture strong signals from nearby towers. These antennas are placed on the roof or side of a building.
 - b. Amplifier unit that amplifies the signal captured from the cell tower.
 - c. Broadcast antenna installed indoors that delivers the amplified cell signal to phones and other mobile devices.

0. HANDHELD RADIO AMPLIFICATION SYSTEM

- Provide handheld radio amplification system for Motorola 3500 handheld radios. Furnish and install Motorola SL5700 UHF 50W Digital Repeater.
- P. SECURITY SYSTEMS





Schematic Design

- 1. Provide an integrated video surveillance, access control and intrusion detection system.
- 2. The video surveillance system shall monitor all entry/exits, building perimeter, each stair landing, public spaces and all corridors.
- 3. Provide vape/THC detection in all bathrooms.
- 4. An access control system consisting of proximity card readers and key fobs shall be provided at entry/egress doors. An electric lock and an intercom at the front door with the ability to release the front door from the administration office shall be provided.
- The intrusion detection system shall monitor all exterior doors and ground floor windows. Door position switches shall be provided on all exterior doors. Motion detectors shall be provided in all rooms with windows accessible from the ground.
- 6. The basis of design for the security system shall be Verkada.
- Q. LIGHTINING PROTECTION SYSTEM
 - 1. Provide Early Streamer Emission (ESE) lightning protection system.
 - 2. Provide mast and grounding per the manufacturer's requirements.
- R. ELECTRIC VEHICLE CHARGING STATION
 - 1. Provide a dual electric vehicle charging station to charge two electrical vehicles simultaneously.
 - Basis of design shall be ChargePoint Model CT4021–GW1 Dual Port Bollard USA Gateway Station with Concrete Mounting Kit CY4001–CCM and cellular communications.





MSBA Module 4 Schematic Design

4.1.2 SCHEMATIC DESIGN BINDER

I. Building Systems Narratives 7a. Civil

SITE DEVELOPMENT SUMMARY

The new Clinton Middle School wil be constructed on the existing Clinton Middle School site located at 100 West Boylston Street in Clinton, Massachusetts (the site). The associated parcel is listed as Clinton Assessor's Office Parcel ID 132–3659 and includes approximately 26.8–acres shared with adjacent Clinton High School site and is owned by the Town of Clinton. The site is bounded by West Boylston Street to the North, the Wachusett Reservior to the South, Philip J. Weihn Memorial Swimming Pool to the East, and Clinton High School to the West. The project includes complete demolition of the exiting school, construction of a new school building, new access drives and parking facilities, and associated landscape areas.

ZONING CONDITIONS

The Site is located within the R–2 Residential zoning district. The existing school use is allowed by right in this district. No portion of the Site appears to be located within any overlay districts. The Clinton Zoning By–Law indicates municipal facilities are exempt from all dimensional requirements of the By–Law.

EASEMENTS AND OTHER PROPERTY LIMITATIONS

The site includes an easement for the New England Power Company, as well as a parcel of land owned by the New England Power Company. In 1974, when the Town of Clinton was in the process of constructing the existing Middle School, there was an agreement between New England Power Company and the Town of Clinton to transfer property and grant easements for the relocation of the power lines. While the power lines were physically relocated, the deeds and easements were not recorded with the Registry of Deeds. The parties recently retained Nitsch Engineering to update the existing conditions, prepare plans and descriptions to record, and finalize the agreements. The Town of Clinton is actively working to ensure that these documents are recorded before February 23, 2024. There do not appear to be any other easements, rights of way, historic registrations, or other encumbrances related to use on the Site.

SOILS

Based on National Resources Conservation Service (NRCS) data, the site consists primarily of Udorthents, smoothed soils. Udorthents, smoothed soils consist of very deep, excessively drained to moderately well drained soils that have been altered by cutting and filling. This soil unit is mainly



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4.1.2 SCHEMATIC DESIGN BINDERI. Building Systems Narratives7a. Civil

located in and adjacent to urban areas, highways, and borrow (i.e., excavated) areas. Udorthents that have a wet substratum, areas of urban land, areas of rock outcrop, and areas of undisturbed soils. In general, the Udorthents soil properties and characteristics are varying. Subsurface investigation of the high school site in 1996, performed by Geotechnical Services, Inc. indicates the site is primarily fill over outwash sand.

A Preliminary Geotechnical Report has been prepared by Lahlaf Geotechnical Consulting Inc. for the proposed Clinton Middle School in October 2023. This report indicates the site consists primarily of fill over sand and gravel, with a few areas of organics and silt. Groundwater was not encountered within the borings which extended 22 feet below existing grade.

ACCESS DRIVES AND PARKING

The Site is accessed by two existing curb cuts on West Boylston Street which will remain in their current locations. Vehicles enter the site through the western curb cut. The eastern curb cut will remain one-way for exit only. The western curb cut will remain two-way. Site circulation will become one-way beginning west of the new parking area, along the south of the site and around the building perimeter. The project includes an additional curb cut on South Main Street for emergency vehicle access only. The new parking area includes 125 parking spaces including 6 accessible parking spaces 7 electric vehicle charging stations for 14 electric vehicles.

Busses will circulate along the south of the site in the left lane and drop off along the west side of the building. Parents will circulate along the south of the site in the right lane, counterclockwise around the building, and drop off along the north of the building. Service vehicles will access the building at a loading dock located to the south of the building.

ADA-compliant pedestrian access will be provided throughout the Site. See the Landscape narrative for a description of the pedestrian access and circulation system.

SANITARY SEWERAGE

The existing sewer main from the High School will remain in the south of the site to the existing manhole southwest of the new building. The sewer main will then be relocated along the west and north of the new building, reconnecting to an existing sewer manhole north of the new building.





4.1.2 SCHEMATIC DESIGN BINDER I. Building Systems Narratives 7a. Civil

The new building includes 3 sewer services from the south of the building. Kitchen waste is directed through a grease trap south of the building. Waste from the science laboratories is directed thrhough an acid neutralization tank. See plumbing narrative for more information regarding acid neutralization. These services will be directed to the existing sewer manhole southwest of the new building and into the relocated sewer main west of the building.

WATER

A new water main is proposed to connect thorugh the site from the existing main in West Boylston Street to the existing main in South Main Street. Fire and domestic water services will connect to the south side of the building. New hyrands are located throughout the site.

STORMWATER MANAGEMENT

A new stormwater management system that complies with the requirements of the MA DEP Stormwater Standards will be required for the project. The system will include provisions for peak flow management, groundwater recharge, and water quality treatment. The compact nature of the site layout and topographic constraints restrict stormwater management BMPs to structured/subsurface systems. Surface bioretention basins are proposed to the east and southeast of the building, and west of the parking area. A subsurface retention system consisting of 12-inch depth of crushed stone is proposed below the recreational field north of the parking area. The existing surface detention basins along the north of the Site will remain. Pretreatment of flows to these systems will be achieved by use of standard deep-sump hooded catch basins and water quality structures (stormwater treatment units).

The stormwater management system for the project will be designed to meet the Department of Environmental Protection's (DEP) Stormwater Management Standards to the maximum extent practicable as a combination of new development and redevelopment. The corresponding DEP Standards and anticipated project compliance are listed below:

Department of Environmental Protection's Stormwater Management Standards

Project Type: The project site is previously developed and the proposed work will result in an increase in impervious area. Therefore, the project is considered a mix of new development and redevelopment under the DEP Stormwater Management Standards.



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Standard 1: No new stormwater conveyances (e.g. outfalls) may discharge untreated stormwater directly to or cause erosion in wetlands or waters of the Commonwealth. Compliance: The project will comply with this standard. There will be no untreated stormwater discharges from the site.

Water quality treatment BMPs will be incorporated into the stormwater management system to provide adequate treatment of stormwater prior to discharge. These water quality BMPs will include Deep-Sump, Hooded Catch Basins as pretreatment BMPs and Proprietary Water Quality Structures as treatment BMPs.

Standard 2: Stormwater management systems shall be designed so that the postdevelopment peak discharge rates do not exceed pre-development peak discharge rates. Compliance: The project will comply with this standard. The stormwater management system will be designed to mitigate post-development peak discharge rates to less than pre-development levels for the 2-year, 10-year, 100-year 24-hour storm events. The project includes an increase in the impervious area resulting in higher rate and volume of runoff. Underground recharge/detention systems will be included in the stormwater design to mitigate the increase in runoff rate.

Standard 3: Loss of annual recharge to groundwater shall be eliminated or minimized through the use of environmentally sensitive site design, low impact development techniques, stormwater BMPs, and good operation and maintenance. At a minimum, the annual recharge from the post-development site shall approximate the annual recharge from pre-development conditions based on soil type. This Standard is met when the stormwater management system is designed to infiltrate the required recharge volume as determined in accordance with the Massachusetts Stormwater Handbook.

Compliance: The project will comply with this standard to the maximum extent practicable. Infiltration BMPs will be incorporated into the proposed stormwater management system where feasible and will be sized to capture and infiltrate the required recharge volume for the proposed site. The required recharge volume is based on the total impervious cover and the NRCS Hydrologic Soil Group for the project site. For this site, the soil has been categorized as Hydrologic Soil Group A. Infiltration systems will be incorporated into the stormwater management system where feasible to provide the required recharge volume.





4.1.2 SCHEMATIC DESIGN BINDERI. Building Systems Narratives7a. Civil

Standard 4: Stormwater management systems shall be designed to remove 80% of the average annual post-construction load of Total Suspended Solids (TSS).

<u>Compliance</u>: The project will comply with this standard. Structured water quality BMPs will be incorporated into the design and sized to provide 80% TSS removal. A Long-Term Pollution Prevention Plan (post-construction) for the storm drainage system will be developed that will define suitable practices for post-construction source control and pollution prevention for the site. The plan will identify good housekeeping practices, provisions for storing materials and waste products inside or under cover, vehicle washing controls, requirements for routine inspection and maintenance of stormwater BMPs, spill prevention and response plans, provisions for landscaping maintenance, requirements for storage and use of fertilizers, herbicides, and pesticides, provisions for solid waste management, snow disposal and plowing plans relative to the proposed infiltration BMPs, winter road salt and/or sand use and storage restrictions, street sweeping schedules, provisions for preventing illicit discharges to the stormwater management system, training for personnel involved with implementing the plan, and a list of emergency contacts.

Standard 5: For land uses with higher potential pollutant loads...

<u>Compliance</u>: Not applicable. The project is not associated with Higher Potential Pollutant Loads (as defined under Standard 5 in Volume 1, Chapter 1 of the DEP Stormwater Management Handbook).

Standard 6: Stormwater discharges within the Zone II or Interim Wellhead Protection Area of a public water supply and stormwater discharges near or to any other critical area... <u>Compliance:</u> Not applicable. The site does not contain critical areas and will not discharge untreated stormwater to a sensitive resource area.

Standard 7: A redevelopment project is required to meet the following Stormwater Management Standards only to the maximum extent practicable: Standard 2, Standard 3, and the pretreatment and structural stormwater best management practice requirements of Standards 4, 5, and 6. Existing stormwater discharges shall comply with Standard 1 only to the maximum extent practicable. A redevelopment project shall also comply with all other requirements of the Stormwater Management Standards and improve existing conditions.

<u>Compliance</u>: The project is a combination of new development and redevelopment. The project will improve existing conditions to comply with the Stormwater Management Standards.



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4.1.2 SCHEMATIC DESIGN BINDER I. Building Systems Narratives 7a. Civil

Standard 8: A plan to control construction-related impacts, including erosion, sedimentation, and other pollutant sources during construction and land disturbance activities (construction period erosion, sedimentation, and pollution prevention plan) shall be developed and implemented.

Compliance: The project will comply with this standard. Sedimentation and erosion controls will be incorporated as part of the design of this project and employed during site construction. Land disturbance will be kept to a minimum and the phasing of the work will be planned so that only the areas actively being developed are exposed. All other areas should have natural vegetation preserved, have good temporary cover, or permanent vegetation established. Permanent structures, temporary or permanent vegetation and mulch/erosion netting should be employed as quickly as possible after land is disturbed. Disturbed areas will be protected from stormwater runoff by installing erosion control or stormwater management measures to prevent water from entering and running over disturbed areas, and to prevent erosion damage to downstream facilities. Perimeter control practices will be installed to isolate the construction site from surrounding areas. Siltation fence, temporary covers for drainage structures, and temporary settlement basins will be utilized where applicable.

The project will disturb more than one (1) acre of land and therefore a Notice of Intent (NOI) under the Environmental Protection Agency's (EPA) National Pollution Discharge Elimination System (NPDES) program will be required. As part of this application, the Applicant is required to prepare a Storm Water Pollution Prevention Plan (SWPPP) and implement the measures in the SWPPP. The SWPPP, which is to be kept onsite during the entire construction phase, includes erosion and sediment controls (stabilization practices and structural practices), temporary and permanent stormwater management measures, Contractor inspection schedules and reporting of all SWPPP features, materials management, waste disposal, offsite vehicle tracking, spill prevention and response, sanitation, and non-stormwater discharges.

Standard 9: A Long-Term Operation and Maintenance (O&M) Plan shall be developed and implemented to ensure that stormwater management systems function as designed.

Compliance: The project will comply with this standard. An operations and maintenance plan including long-term BMP operation requirements will be prepared to assure proper maintenance and functioning of the proposed stormwater management system.





Clinton Middle School

4.1.2 SCHEMATIC DESIGN BINDER

I. Building Systems Narratives

7a. Civil

Standard 10: All illicit discharges to the stormwater management system are prohibited. <u>Compliance:</u> The project will comply with this standard. There will be no illicit connections associated with this project.

NATURAL GAS

Gas service is not proposed on the site. Refer to the mechanical engineering narrative for information related to the building fuel system.

ELECTRICAL / TELECOMMUNICATIONS

Electrical and Telecomuication services will be provided from the utility infrastructure along the south of the site to the south of the new building. The project includes installation of a new transformer and generator. Refer to the electrical and telecommunication systems narratives for information related to the building electric and telecommunications systems.





Schematic Design

4.1.2 SCHEMATIC DESIGN BINDER

 Building Systems Narratives 7b. Site Permitting Narrative

PRELIMINARY PERMITTING CONSIDERATIONS

Zoning Conditions

The Site is located within the R-2 Residential zoning district. The existing school use is allowed by right in this district. No portion of the Site appears to be located within any overlay districts. The Clinton Zoning By-Law indicates municipal facilities are exempt from all dimensional requirements of the By-Law.

Wetlands Protection Act (310 CMR 10.00)

The Wetlands Protection Act ensures the protection of Massachusetts' inland and coastal wetlands, tidelands, great ponds, rivers, and floodplains. It regulates activities in coastal and wetlands areas and contributes to the protection of ground and surface water quality, the prevention of flooding, and storm damage and the protection of wildlife and aquatic habitat.

A review of the Massachusetts Department of Environmental Protection (DEP) wetland layers available on the Oliver Map provided by Massachusetts Geographic Information System (MassGIS) indicates that a wetland area is located northeast of the site, with a 100-foot buffer zone extending into the site. Work within the buffer zone would require permitting through the Clinton Conservation Commission. It is not anticipated work will be required within the buffer zone.

Floodplain

Based on the Flood Insurance Rate Map (FIRM) the site is located outside area of 0.2% Annual Chance/500-year Flood Hazard.

Surface Water Supply Protection (310 CMR 22.20)

The Massachusetts DEP ensures the protection of surface waters used as sources of drinking water supply from contamination by regulating land use and activities within critical areas of surface water sources and tributaries and associated surface water bodies to these surface water sources.

A review of the Massachusetts DEP resource layers available on the MassGIS, appear to indicate the site is located within Zone A Surface Water Supply Protection Zone. Zone A represents "a) the land area between the surface water source and the upper boundary of the bank; b) the land area within a 400 foot lateral distance from the upper boundary of the bank of a Class A surface water source, as defined in 314 CMR 4.05(3)(a); and c) the land area within a 200 foot lateral distance from the upper boundary of the bank of a tributary or associated surface water body."

Regulated uses and activities are described in 313CMR 11.04 (3). Restrictions include limitation on storage of potentially hazardous materials, as well as the location of sewer conveyance and treatment



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4.1.2 SCHEMATIC DESIGN BINDER Building Systems Narratives 7b. Site Permitting Narrative

systems. Such materials include, but are not limited to, the storage of liquid petroleum products, outdoor Storage of road salt or other de-icing chemicals, outdoor Storage of fertilizers, herbicides and pesticides, use or Storage of pesticides or herbicides which carry a mobility rating asprovided for by the United States Environmental Protection Agency or which havebeen determined by the Commonwealth using United States Environmental Protection Agency standards to pose a threat or potential threat to Ground Water, and the rendering Impervious of more than 10% of any Lot or 2,500 square feet, whichever is greater. The Clinton Conservation Commission has indicated they do not have any local bylaws governing work within Zone A.

The site is adjacent to the Wachusett Reservoir, which is a Public Water Supply. The site does not drain towards the reservoir. A request for an Advisory Ruling for Watershed Protection Act (WSPA) jurisdiction was filed with The Massachusetts Department of Conservation and Recreation (DCR), Division of Water Supply Protection in March 2023. DCR has confirmed the site is located outside areas of jurisdiction and no further action is needed.

Wellhead Protection Areas

The Massachusetts DEP ensures the protection of drinking water supplies from contamination by regulating land use and activities within wellhead protection areas. A review of the Massachusetts DEP resource layers available on the MassGIS, appear to indicate the site is NOT located within Wellhead Protection Areas.

Natural Heritage & Endangered Species Program

The Natural Heritage & Endangered Species Program is responsible for the conservation and protection of hundreds of species that are not hunted, fished, trapped, or commercially harvested in the state, as well as the protection of the natural communities that make up their habitats. A review of the MassGIS data layers, appear to indicate the site is NOT within the protection areas.

USEPA NPDES

Construction activities that disturb more than one acre are regulated under the United States Environmental Protection Agency's (EPA) National Pollution Discharge Elimination System (NPDES) Program. In Massachusetts, the USEPA issues NPDES permits to operators of regulated construction sites. Regulated projects are required to develop and implement stormwater pollution prevention plans in order to obtain permit coverage. Any proposed site modifications over one acre will require a NPDES permit.





Schematic Design

4.1.2 SCHEMATIC DESIGN BINDER

 Building Systems Narratives 7b. Site Permitting Narrative

MEPA

Nitsch Engineering has reviewed Massachusetts Environmental Policy Act (MEPA) thresholds related to site work. The project is not expected to exceed the thresholds related to these categories. Below is a summary of the thresholds for submitting an Evironmental Notification Form (ENF) in these categores:

(1) Land.

- Direct alteration of 25 or more acres of land, unless the Project is consistent with an approved conservation farm plan or forest cutting plan or other similar generally accepted agricultural or forestry practices. Site disturrbance is less than 10 acres and will not exceed this threshold.
- Creation of five or more acres of impervious area. The increase of impervious area is less • than 1 acre and will not exceed this threshold.
- Disposition or change in use of land or an interest in land subject to Article 97 of the Amendments to the Constitution of the Commonwealth, unless the Secretary waives or modifies the replacement land requirement pursuant to M.G.L. c. 3, § 5A and its implementing regulations. The projects is not a change in use.
- Conversion of land in active agricultural use to nonagricultural use, provided the land includes • soils classified as prime, state-important or unique by the United States Department of Agriculture, unless the Project is accessory to active agricultural use or consists solely of one single family dwelling. The site is not within an agricultural use.
- Release of an interest in land held for conservation, preservation or agricultural or watershed • preservation purposes, unless the Secretary waives or modifies the replacement land requirement pursuant to M.G.L. c. 3, § 5A and its implementing regulations. The site is not conservation, preservation, or agricultural land.
- Approval in accordance with M.G.L. c. 121A of a New urban redevelopment project or a fundamental change in an approved urban redevelopment project, provided that the Project consists of 100 or more dwelling units or 50,000 or more sq. ft. of nonresidential space. The site is not associated with a new urban redevelopment project.
- Approval in accordance with M.G.L. c. 121B of a New urban renewal plan or a major • modification of an existing urban renewal plan. The site is not associated with a new urban renewal plan.

(2) State-listed Species under M.G.L. c. 131A (Massachusetts Endangered Species Act). The Natural Heritage & Endangered Species maps do not show any endangered species at the site.

- Alteration of designated significant habitat. •
- Greater than two acres of disturbance of designated priority habitat, as defined in 321 CMR • 10.02, that results in a take of a state-listed endangered or threatened species or species of special concern.



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4.1.2 SCHEMATIC DESIGN BINDER

I. Building Systems Narratives

7b. Site Permitting Narrative

(3) Wetlands, Waterways and Tidelands. The project does not propose work within any wetland resource areas or buffer zones.

- alteration of coastal dune, barrier beach or coastal bank;
- alteration of 500 or more linear feet of bank along a fish run or inland bank; •
- alteration of 1,000 or more sf of salt marsh or outstanding resource waters; •
- alteration of 5,000 or more sf of bordering or isolated vegetated wetlands; •
- New fill or structure or Expansion of existing fill or structure, except a pile- supported structure, • in a velocity zone or regulatory floodway; or
- alteration of $\frac{1}{2}$ or more acres of any other wetlands. •
- Construction of a New roadway or bridge providing access to a barrier beach or a New utility • line providing service to a structure on a barrier beach.
- Dredging of 10,000 or more cy of material.
- Disposal of 10,000 or more cy of dredged material, unless at a designated in-water disposal • site.
- Provided that a Chapter 91 License is required, New or existing unlicensed non-water dependent use of waterways or tidelands, unless the Project is an overhead utility line, a structure of 1,000 or less sf base area accessory to a single family dwelling, a temporary use in a designated port area, or an existing unlicensed structure in use prior to January 1, 1984.
- Construction, reconstruction or Expansion of an existing solid fill structure of 1,000 or more sf base area or of a pile-supported or bottom-anchored structure of 2,000 or more sf base area, except a seasonal, pile-held or bottom-anchored float, provided the structure occupies flowed tidelands or other waterways.

(4) Water.

- New withdrawal or Expansion in withdrawal of 100,000 or more gpd from a water source that • requires New construction for the withdrawal. The project is estimated to draw less than 10,000 gpd from the existing water source.
- New withdrawal or Expansion in withdrawal of 500,000 or more gpd from a water supply system • above the lesser of current system-wide authorized withdrawal volume or three-years' average system-wide actual withdrawal volume. The project is estimated to draw less than 10,000 gpd from the existing water source.
- Construction of one or more New water mains five or more miles in length. The proposed water main within the site is less than one mile.
- Construction of a New drinking water treatment plant with a Capacity of 1,000,000 or more gpd. The project does not include construction of a new drinking water treatment plant.
- Expansion of an existing drinking water treatment plant by the greater of 1,000,000 gpd or 10% • of existing Capacity. The project does not include expansion of a water treatment plant.



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- Alteration requiring a variance in accordance with the Watershed Protection Act, unless the Project consists solely of one single family dwelling. The project does not require a variance under Watershed Protectino Act.
- Non-bridged stream crossing 1,000 or less feet upstream of a public surface drinking water supply for purpose of forest harvesting activities. The project does not include any stream crossings.

(5) Wastewater.

- Construction of a New wastewater treatment and/or disposal facility with a Capacity of 100,000 or more gpd. The project does not include construction of a wastewater treatment or disposal facility.
- Expansion of an existing wastewater treatment and/or disposal facility by the greater of 100,000 gpd or 10% of existing Capacity. The project does not include expansion of a wastewater treatment or disposal facility.
- Construction of one or more New sewer mains: The project does not include a new sewer main. The section of relocated sewer main is approxiamtely 400 feet.
 - that will result in an Expansion in the flow to a wastewater treatment and/or disposal facility by 10% of existing Capacity;
 - five or more miles in length.
- New discharge or Expansion in discharge:
 - to a sewer system of 100,000 or more gpd of sewage, industrial waste water or untreated stormwater; The estimated sewer flow is 7,500 gpd
 - to a surface water of: The project does not include sewer discharge to surface waters.
 - 100,000 or more gpd of sewage;
 - 20,000 or more gpd of industrial waste water; or
 - any amount of sewage, industrial waste water or untreated stormwater requiring a variance from applicable water quality regulations; or
 - to groundwater of: The project does not include sewer discharge to groundwater.
 - 10,000 or more gpd of sewage within an area, zone or district established, delineated or identified as necessary or appropriate to protect a public drinking water supply, an area established to protect a nitrogen sensitive embayment, an area within 200 feet of a tributary to a public surface drinking water supply, or an area within 400 feet of a public surface drinking water supply;
 - 50,000 or more gpd of sewage within any other area;
 - 20,000 or more gpd of industrial waste water; or





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I. Building Systems Narratives

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- any amount of sewage, industrial waste water or untreated stormwater requiring approval by the Department of Environmental Protection of a variance from Title 5 of the State Environmental Code for New construction.
- New Capacity or Expansion in Capacity for: The project does not include combustion, storage, or treatment of sewage.
 - o combustion or disposal of any amount of sewage sludge, sludge ash, grit, screenings, or other sewage sludge residual materials; or
 - storage, treatment, or processing of 50 or more wet tpd of sewage sludge or sewage sludge residual materials.

(6) Transportation.

- Unless the Project consists solely of an internal or on-site roadway or is located entirely on the • site of a non-roadway Project: The project consists solely of an on-site circulation driveways.
 - construction of a New roadway one-quarter or more miles in length; or
 - widening of an existing roadway by four or more feet for one-half or more miles, excluding widening to add bicycle or pedestrian accomodations.
- Construction, widening or maintenance of a roadway or its right-of-way that will: The project does not include work within a roadway.
 - alter the bank or terrain located ten more feet from the existing roadway for one-half or more miles, unless necessary to install a structure or equipment;
 - o cut five or more living public shade trees of 14 or more inches in diameter at breast height; or
 - o eliminate 300 or more feet of stone wall.
- Expansion of an existing runway at an airport. The project is not associated with an airport.
- Construction of a New taxiway at an airport. The project is not associated with an airport.
- Expansion of an existing taxiway at Logan Airport. The project is not associated with an airport.
- Expansion of an existing terminal at Logan Airport by 100,000 or more sf. The project is not associated with an airport.
- Expansion of an existing terminal at any other airport by 25,000 or more sf. The project is not associated with an airport.
- Construction of New or Expansion of existing air cargo buildings at an airport by 100,000 or more sf.
- Conversion of a military airport to a non-military airport. The project is not associated with an airport.
- Construction of a New rail or rapid transit line for transportation of passengers or freight. The project is not associated with rail or rapid transit lines.



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- Discontinuation of passenger or freight service along a rail or rapid transit line. The project is not associated with rail or rapid transit lines.
- Abandonment of a substantially intact rail or rapid transit right-of-way. The project is not associated with rail or rapid transit lines.
- Generation of 2,000 or more New adt on roadways providing access to a single location. The existing adt is approximartely 1010. The project is estimated to generate 1235 vehicle trips a day, or 225 New adt.
- Generation of 1,000 or more New adt on roadways providing access to a single location and construction of 150 or more New parking spaces at a single location. The project is estimated to generate 225 new adt and includes 55 less parking spaces than existing.
- Construction of 300 or more New parking spaces at a single location. The project includes 123 parking spaces which is 55 less spaces than existing.

(7) Energy.

- Construction of a New electric generating facility with a Capacity of 25 or more MW. The project does not include an electric generating facility.
- Expansion of an existing electric generating facility by 25 or more MW. The project does not include an electric generating facility.
- Construction of a New fuel pipeline five or more miles in length. The project does not include a fuel pipeline.
- Construction of electric transmission lines with a Capacity of 69 or more ky, provided the transmission lines are one or more miles in length along New, unused or abandoned right of way. The project includes electrica transmission for the middle school building only. See electrical narrative for more information about the proposed electrical systems and transmission.

(8) Air. The project does not include any Station Sources of Air Pollution

- Construction of a New Stationary Source with federal potential emissions, after construction and the imposition of required controls, of: 100 tpy of PM10, PM 2.5, CO, lead or SO2; 50 tpy of VOC or NOx; 10 tpy of any HAP; or 25 tpy of any combination of HAPs.
- Modification of an existing Stationary Source resulting in a "significant net increase" in actual • emissions, provided that the stationary source or facility is major for the pollutant. For purposes of this threshold, a "significant net increase" in actual emissions shall mean an increase in emissions of: 15 tpy of PM10; 10 tpy of PM 2.5; 100 tpy of CO; 40 tpy of SO2; 25 tpy of VOC or NOx; 0.6 tpy of lead.

(9) Solid and Hazardous Waste. The project does not include processing of solid waste.



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4.1.2 SCHEMATIC DESIGN BINDER

I. Building Systems Narratives

7b. Site Permitting Narrative

- New Capacity or Expansion in Capacity for combustion or disposal of any quantity of solid waste, or storage, treatment or processing of 50 or more tpd of solid waste, unless the Project is exempt from site assignment requirements.
- Provided that a Permit is required in accordance with M.G.L. c. 21D, New Capacity or Expansion in Capacity for the storage, recycling, treatment or disposal of hazardous waste.

(10) Historical and Archaeological Resources.

- Unless the Project is subject to a Determination of No Adverse Effect by the Massachusetts Historical Commission or is consistent with a Memorandum of Agreement with the Massachusetts Historical Commission that has been the subject of public notice and comment **The project is not assiciated with any historic sites or buildings**:
 - demolition of all or any exterior part of any Historic Structure listed in or located in any Historic District listed in the State Register of Historic Places or the Inventory of Historic and Archaeological Assets of the Commonwealth; or
 - destruction of all or any part of any Archaeological Site listed in the State Register of Historic Places or the Inventory of Historic and Archaeological Assets of the Commonwealth.
- (12) Regulations.
 - Promulgation of New or revised regulations, of which a primary purpose is protecting against Damage to the Environment, that significantly reduce **The project does not propose changes to regulations**:
 - o standards for environmental protection;
 - \circ $\;$ opportunities for public participation in permitting or other review processes; or
 - o public access to information generated or provided in accordance with the regulations.
- (11) Areas of Critical Environmental Concern. The site is not witin an ACEC.
 - Any Project of ½ or more acres within a designated ACEC, unless the Project consists solely of one single family dwelling.

National Register of Historic Places (NRHP)

According to the National Register of Historic Places (NRHP), the Wachusett Dam Historic Distric forms the mouth of the Wachusetts Reservoir. This distric consists of a dam, waste weir and spillway, two bridges, a listening arrestor chamber, and gate chamber/powerhouse all of which is located in Clinton Massachusetts. The property ID is 89002269. The site is located outside the boudary of the Historic Place.





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Massachusetts Department of Transportation (MassDOT)

Roadways located within a MassDOT State Highway Layout are subject to review by MassDOT. The State Highway Layout Map indicates Route 110 is NOT within the State Highway Layout.

SITE PERMITTING SCHEDULE

Permit	Permitting Authority	Anticipated Filing Date	Status
Site Plan Review	Planning Board	Completion of Design Development Phase	Not started
Request for Determination of Applicability/Notice of Intent	Conservation Commission	Completion of Design Development Phase	Not Anticipated
Watershed Protection Act Request for Watershed Determination of Applicability	DCR	March 2023	Complete
NPDES Notice of Intent	EPA	14 calendar days prior to construction	Not started







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4.1.2 SCHEMATIC DESIGN BINDERI. Building Systems Narratives8. Landscape

LANDSCAPE DESIGN SUMMARY: The landscape scope of work includes replacement and extension of circulation paths for code compliance and universal access, lighting improvements for code compliance and security, and pedestrian crossing improvements at vehicular interfaces for improved safety. Entry plazas include unit paving to reinforce hierarchy and wayfinding, as well as seating and landscaping improvements. Rain garden plantings provide a buffer between the new recreation field and the road and improved drainage adjacent to the parking lot and building. Parking is relocated and reconfigured for improved program relationships. Site amenities include basketball court replacement/relocation, drainage improvements at the recreation field, and a playground and outdoor learning classroom. Service area improvements include screening at dumpsters and utility equipment. The scope also includes 50% perimeter fence replacement to maintain site security.

LANDSCAPE DESIGN SCOPE OF WORK:

General:

Provide hierarchy in entry sequence, paths, and design, to clarify and reinforce the school entry. Incorporate crime prevention through envirionmental design (CPTED) best practices. Provide site safety measures during construction with protected pedestrian access to the shared outdoor space west of the power lines for PE classes and/or to the existing field further east, as construction laydown allows.

Site Circulation - Vehicular:

- Provide new parking lot west of building, with distinct bus loop.
- Vehicular access for bus and parent pick-up and drop-off is separated from parking for improved efficiency.
- Wide concrete sidewalks at south side of recreation field allows for emergency access.
- See Civil and Electrical narratives for EV parking requirements.
- See Civil narrative for additional information about vehicular circulation and parking.

Site Circulation - Pedestrian:

- Provide 6ft wide pathways with 4,000 psi cast in place concrete.
- Provide simulated wood decking (Basis of Design should be Resysta mineral-based decking material, Acre Decking by Modern Mill or equivalent NOT plastic composite material) at boardwalk west of parking lot.
- Provide raised table pedestrian crossing across from primary school entrance, and at the intersection with the next most anticipated pedestrian vs vehicular traffic, to facilitate pedestrian safety and traffic calming.

Site Elements:

• Provide new digital sign at west vehicular entrance from road for improved placemaking and wayfinding.





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4.1.2 SCHEMATIC DESIGN BINDERI. Building Systems Narratives8. Landscape

- Provide new multi-purpose field at existing parking lot location, with below surface drainage, sand-based well draining soils, pathway access. Provide stabilized aggregate south of recreation field for future temporary bleachers. Provide chain link perimeter fence with 4 access gates. (Add/Alternate: provide synthetic turf at recreation field with continuous concrete curb perimeter, refer to site plan and details).
- Provide entry plaza west of building with unit pavers, planters, benches, and site lighting. (4,600 sf)
- Provide plaza at south side of building with stabilized aggregate, fixed tables and chairs, and pre-engineered fabric shade structures. (3,800 sf)
- Provide outdoor classroom / maker space at east side of building, with 50% concrete and 50% unit pavers, fixed seat walls, raised planters, shade trees, power and water access, and fence with gate. (3,500 sf) Refer to electrical drawings for power and wifi at outdoor classroom.
- Provide playground for 8–10 year old age group east of building with parkour and physical challenge/obstacle type play areas. Include poured in place rubber surfacing, shade trees, fixed benches, and lighting. Provide perimeter fence and screening at playground. (8,300 sf)
- Provide (2) basketball courts at east of school.
- Replace 50% of site perimeter fence.
- Provide 22 bike racks (44 total spaces).
- Provide 5 trash/recycling receptacles.
- Provide 8ft high mechanical screen at south side service area.
- Provide guardrail at loading dock edge.

Planting:

- Provide landscape buffer and raingarden plantings within existing drainage channel (between road and recreation field).
- Provide tree islands at parking to reduce heat island effect, improve biodiversity and carbon sequestration.
- Provide row of trees along access drives.
- Provide flowering trees and grove trees to add visual appeal throughout the site.
- Provide shrub and perennial beds on either side of the main building entrance, outdoor classroom, playground perimeter, and east side of building.
- Provide low mow fescue and sod at locations indicated on the site plan.
- Provide smart sensor drip irrigation at all planting beds. Provide spray irrigation at all sod areas. Provide temporary spray irrigation at low mow fescue areas for establishment.





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4.1.2 SCHEMATIC DESIGN BINDER I. Building Systems Narratives 9.FoodService

Cafeteria Basis of Design

The Clinton Middle School Food Service operation will consist of the kitchen, servery and seating area. The kitchen and servery area will be approximately 2,900 square feet to accommodate 700 students for grades 4 through 8 and facilitate four meal periods. Breakfast and lunch will be served daily.

The cafeteria will have the typical components of a middle School cafeteria. Dry, refrigerated, and frozen storage will be provided. Stainless steel worktables with sinks for food preparation and workspace. Ancillary equipment such as slicers, mixers and food processors will be provided. Commercial grade cooking equipment with associated exhaust hoods, demand control system, utility distribution system and fire suppression systems. The tray/pot wash area will have a drop-off window for students, a three-bay pot sink and a commercial grade conveyor dishmachine with ample storage for clean wares and carts. A dedicated Janitor's closet with mop sink and storage shelving will be provided. The serving area will have three redundant serving counters that will provide hot, cold, and free counter space at each serving line. One of the counters may be extended for a-la-carte items. The serving counters will have back support work counters, reach-in refrigerators, and heated cabinets for additional support. At the end of each serving line there will be milk coolers and a POS station. Beyond the serving area, trash, recycling, and condiment counters will be placed strategically throughout the seating area.

All Food Service equipment, including exhaust hoods and fire suppression will be commercial grade and meet all NSF Standards, NFPA, UL and food equipment and/or health required codes.





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4.1.2 SCHEMATIC DEISGN BINDER I. Building Systems Narratives 10. Technology

Notes: Clinton Middle School Visit on 3/2/23 and two subsequent meetings on 10/4 and 12/5 of 2023.

Meeting Dates: 3/2/23, 10/4/23, 12/5/23

<u>Attendees</u>: Eric Moore – LPA/A, Christina Bazelmans – LPA/A, Scott Goodrich – Edvance, Chris Tahan – CPS, Brian Sharon – CPS, Steven Meyer – CPS, Azim Rawji – ART, Peter Caruso – LPA/A, Sean Brennan – LPA/A, Trip Elmore – D+W, Elias Grijalva – D+W. Note: Not all Attendees were present for all of the meetings. Meeting notes were compiled for each meeting and distributed to attendees.

Structured Cabling System

The school is currently comprised of an MDF room with four satellite closets feeding back to the MDF over Fiber. Two of these closets are actual rooms and two are cubby storage areas with limited access from the hallway. Fully equipped rooms, with adequate space for equipment racks, power distribution, cable management, environmental conditioning, and room for carrying on administrative functions should be part of any building project.

Category 6A copper cabling is the standard for all new renovation and construction projects with OM4 multimode fiber optic and single mode fiber between all satellite closets and the main distribution room. A typical structured cabling system distribution would include:

General Classrooms – two teacher outlets, one on the projector wall and one on the opposite wall should also contain a USB–C power connection at both locations with power receptacles. Phone connection at the wall, two data at the wireless access point, and two for projector.

ART, Resource, and Health - should be set up like classrooms.

Collab spaces - shall have floor outlets and a projector.

Media Center – shall have 1 ultrashort projector for classroom sessions and one high lumen ceiling mount built–in projector with motorized projection screen with a local sound system. Power and data should be provided for copier/printer.

Gym – shall have a sound system with wireless microphones, Bluetooth inputs, motorized projection screen as part of the construction project. A high lumen projector on a cart be purchased during the equipment phase for use in making large assembly presentations. A smaller projection cart or flat panel on a cart for use by Gym teachers may also be procured at the same time during the FFE project.




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Cafeteria – shallhave a built–in sound system with wireless and wired microphone jacks, Bluetooth inputs, built–in projection system with motorized projection screen and a touch panel on the stage for controlling sources, inputs, volume, etc.

Digital Signage – Lobby, Cafeteria, Main Office, and outside Gym were discussed as possible locations for signage displays. Exact locations, sizes, etc. to be worked out later. These are signage locations and do not require high/low connections.

Maker Space – should be equipped with power and data, and ventilation for 3D printing.

Art – should be equipped with technology and infrastructure like classrooms. Include power and data for the possibility of a network printer.

Science – should be equipped with technology and infrastructure like classrooms.

Administrative Offices – Multiple data connections for phones and computers. Larger wall mounted displays should be planned for use in local conferencing or for monitoring security cameras. High/low connections are required.

Administrative Conference Room – Floor boxes with connections to an ultrashort projector. Use the same display technology as classrooms for ease of use.

Teacher Planning –They should be equipped with ultrashort projectors and power and data for Printer/Copier device.

Distributed Communication System (Public Address and Clock System)

The current system is antiquated and will require replacement during a construction and/or renovation project. For future projects, two hands-free call-in stations per room is acceptable, with a in ceiling speaker, and digital clock on the wall. There was a discussion about using a larger flat panel type display (ie South HS). It was mentioned that it would be beneficial to have a display device in the classroom in place of the clock, which could be used to not only display time, but also informational messages and emergency notifications.

The preference was for more simplified digital clocks that could also receive messages. Something that is flush mounted or has a very low-profile on the wall rather than something that is attached to the wall with a mount. The request was for an IP based system at the core and between MDF and IDF's, with analog end points in all school spaces. A reliable digital clock system with a master clock is essential. No standard for manufacturer was noted. Easy to use GUI is required for setting up bell schedules,





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4.1.2 SCHEMATIC DEISGN BINDER I. Building Systems Narratives 10. Technology

zones, and programing. The ability to create different zones and groups of zones in the building for announcements is critical to the Owner. This is so that only sixth grade classroom or fifth grade classrooms and related spaces, including corridors can be paged and not the whole building.

Networking and Wireless

Currently the standard for local area network switches is Extreme Networks. The wireless network currently relies on access devices from Cisco Meraki. Access points are in all classrooms and educational spaces as well as large assembly spaces such as the library/media Center, Gymnasium and Cafeteria. These two manufacturers should be listed as proprietary manufacturers and included within the construction project, with the Owner providing the specific model numbers for each the time of design.

Telephone System

The Current Middle School is standardized on Mitel for its' phone system, which is only 4–5 years old. It was installed and is supported by Metropolitan Telephone. A building project would assess reuse and/or refreshing with all new telephone VoIP equipment that meets the current requirements of Ray Baum's Act and Kerri's Law.

Display Technology

Epson Projectors are used throughout classrooms. It provides the appropriate size display for classrooms. The newest projectors available from Epson should be considered for any building project. Teacher connections to the projectors are provided at the wall near the teacher's desk location and include HDMI and USB connections. Pathways for cabling and blocking for the projectors should be provided during construction, with the latest technology and cabling purchased during the equipment phase.

The district currently uses non-interactive projectors in all instructional spaces at the Middle School level. Projectors with interactive features are perceived to be a better fit in lower elementary grades. The latest Epson projectors shall be specified at the time of technology equipment purchase during the FFE phase. The district is also evaluating flat panels and has recently purchased 26 TouchView panels for elementary schools. During the meeting in December of 2023, the design team was instructed to carry the latest interactive short throw projector technology for all classrooms, conference rooms, teacher planning and common areas, to be utilized with a minimum 5'H x 8'W whiteboard. During the design process, a final decision will be made on whether flat panel display technology should be substituted for projectors in the Fifth through Sixth Grades.







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The current thinking is that the flat panel are good for elementary schools and that projectors with whiteboard space are better for use at the Middle School level. Preparation shall be provided as part of construction for all pathways between low mounted connections on the wall and the projectors and/or flat panels so that cabling can be easily procured and installed as part of the projection system.

Document Cameras are used with projectors and should be purchased during the equipment phase.

Discussed that Speech Reinforcement Systems are currently a standard for new classroom designs and shall be part of the construction project.

Chromebook Technology

School utilizes Chromebooks Fifth through Eighth Grades. Fifth graders are issued a new Chromebook when entering Middle School, which are managed onsite in charging carts in the Fifth and Sixth Grade classrooms. When students reach the Seventh Grade, they are allowed to take the Chromebook home with them where they manage charging and use time. Chromebooks are then refreshed in 4 years when students become freshman at High School, where they are issued a new Chromebook for their four years of High School.

Therefore, any building project may only have to carry account for the purchase of the incoming fifth grade Chromebooks and Chromebook Charging carts.

A determination will need to be made on how the project addresses Chromebooks for the fourth grade if this grade is incorporated into the building project.

All Chromebook for students in the Fourth through the Sixth Grades will require a charging cart in the classrooms to facilitate storing and charging of devices. Grades seven and eight take their Chromebooks home, but their rooms should be equipped for powering a cart, in the case of the room being repurposed in the future.

Administration uses Chromebooks as well, with some being equipped with either desktops or laptops. Two monitors with a docking station are common for administrative computer workstations. Nothing special is required of the mounting of monitors to furniture.

The basis of their current Chromebooks for students is the HP Chromebook 11 for Students

Chromebooks for Teachers are also refreshed every 4 years and the building project may or may not have to account for new Chromebooks, depending on how recent they were refreshed for Teachers when a new school opens. Teacher Chromebooks are higher end devices with touch capability and are





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based on Acer or Asus. For budgeting purposes, new teacher Chromebooks should be included in the project.

Security

Exacq Technologies is their current platform for Surveillance. Various camera manufacturers are used throughout the building without any real standard for camera technology.

Intrusion Alarm systems are currently being evaluated for other schools in the district and there does not appear to be a proprietary standard at the current time. A building project would allow for determining standards that could integrate with the access control and surveillance systems.

Access Control is limited and there does not appear to be a standard currently. Access control platforms from Genetec and Evo are in use in the district. The building project would allow for setting a standard for access control that could be integrated with the surveillance and intrusion detection systems. This would provide greater partitioning and control of interior spaces during a lockdown, while also providing routine control of exterior doors and spaces.

Building projects are the best time to establish proprietary standards within the district for an Integrated Security Systems platform involving surveillance, access control and intrusion detection. Standardizing on an integrated platform from a major provider serving the school market like Motorola/Avigilon was well received. It was revealed during later meetings that the district is now standardizing Verkada for video surveillances and door access control, which should be listed as proprietary for any future projects.

Motorola radios are used within the building between key administrative personnel. Since

Video Intercom and Door Control – An Aiphone like system hall be specified for the main entrance and receiving door and shall be equipped with video intercom capability that can be used to communicate through audio and visual signals with visitors to these building access doors and provide remote unlocking of exterior doors. All other entrances shall be controlled with access control system card readers.

Other Systems

Cell Phone Booster System – Some level of cell phone booster system for Verizon at a minimum (the District's SRO's cell phone service company), like high school should be included.





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Gun Shot Detection and Vape Detection were briefly discussed. There seemed to be consensus that at a minimum cabling for these systems should be included.

Servers

The school has some legacy server resources housed in the MDF, but most of their information storage has moved to the cloud.

Technology Phases

We reviewed the technology is included as part of a typical construction (renovation) project and the technology that shall be purchased during the equipment phase.

Technology provided during construction phase includes the Structured Cabling System; Public Address and Clock System; Large venue Audio Visual Systems; classroom Speech Reinforcement Systems; Network Switches and Wireless; Telephone System; Security System (Surveillance, Access Control and Intrusion Alarm), and Handheld Radios.

Technology provided during the equipment phase includes Core IT equipment; user IT equipment such as Chromebooks, computers, tablets, charging printers, etc., and the POS system; Instructional Display Technologies; Digital Signage, and Portable AV equipment.

Internet Service Provider and Current Vendors

Technology vendors include CDWG, Insight, Custom Computer, and Whalley to name a few.

CELT is their Internet Service Provider providing Crown Castle 5G internet pipe that is split between the Middle School and High School, with 600Mb of Comcast internet being provided as a backup. Maintaining this connection between the High School and Middle and/or re–establishing it shall be an important part of the project during design. The cost of providing a separate internet service to the High School independent of the Middle School should also be evaluated at the time of design.

Ockers handles some of their AV equipment.

AKuity/ICS handles their Extreme Networks switch equipment.

Custom Computer handles their Wireless.

Proprietary Technology





Schematic Design

It will be important to identify the list of proprietary technologies that shall be required so that the School Building Committee can approve them for the project. Proprietary systems as determined from our meetings will include the following systems:

Network Switches - Extreme Networks

Wireless Access Devices - Cisco Meraki

Telephone System - Mitel

Security Surveillance and Access Control - Verkada

Refer to section 4.1.2, S, 1, meeting #23 when the School Building Committee voted to approve the proprietary items noted above.





Meeting Minutes | Proprietary Tech Items

Attendees:

- Steven Meyer | Superintendent of Schools | CPS
- Chris Tahan | Director of Technology | CPS
- Azim Rawji | Electrical Engineer | ART Engineering (was having technical difficulties)
- Scott Goodrich | Technology Consultant | Edvance Technology Design
- Peter A. Caruso, Jr. | Architect | LPA|A
- Trip Elmore | Owner's Project Manager | D&W
- Elias Grijalva | Owner's Project Manager | D&W

Item:	Description:	Responsibility:
12.05.23.01	 Purpose The purpose of the meeting is to identify potential proprietary items for the new school. 	
12.05.23.02	 Proprietary Items Steve confirmed the following items will be proprietary: Network Switches- Extreme Networks Wireless Access Devices- Cisco Meraki Telephone System- Mitel Integrated Security System- Verkada ART Engineering will specify all 4 proprietary systems with input from Scott. 	ART/LPA A
12.05.23.03	 Proprietary Justification Scott and Azim will work on a brief narrative that provides justification for going with these proprietary items. Chris will review and provide input where necessary. Will ultimately be included in SD submission to MSBA and will also be used in the discussion with the SBC for when they must vote to approve of proprietary items. 	ART/ET/LPA A

12.05.23.04 Technology Budget





Meeting Minutes | Proprietary Tech Items

Item:	Description:	Responsibility:	
	 Scott will provide budget numbers for these systems. LPA A will forward the budget to the cost estimator. Scott was made aware that the cost estimate is due on 2/05/24. 		
12.05.23.05	 Chromebooks Chris advised that the school is strictly Chromebook based with NO PC's. 		
	 Scott advised that Chromebooks can now support interconnectivity with interactive short-throw projectors. 		
12.05.23.06	 Interactive Short-Throw Projectors Steve directed the team to carry interactive short-throw projectors (ISTP) in the SD cost estimate at ~\$3500 each installed. As of this meeting, the projectors will be included as part of the FF&E package. Steve advised that there might be a change to mobile 75-inch flat panel displays for grades 4–6 in the future but for now, carry the ISTP for each space. The interactive short-throw projectors can provide up to a 100-inch diagonal viewing area. The ISTP requires a 5'high x 8'wide whiteboard to project images onto. LPA A will need to specify this size whiteboard. ISTP will be in all classrooms, conference rooms, teacher planning, and common areas. 		
12.05.23.07	ProjectorsWill be in Gym, Media Center, and CafeteriaScope location TBD.		
Attachments: Minutes by:	none Peter A. Caruso, Jr.		
Distribute to: File location:	Attendees I:\PROJECTS\2022\2220 – Clinton Middle School\MINUTES\Owner\2023.12.05 Proprietary Technology\2220MO Proprietary Tech 12.05.23		





4.1.2 SCHEMATIC DESIGN BINDER

J. Sustainable Building

Design

- 1. Sustainability Narrative
- 2. LEED-S v/4 Sustainability Scorecard
- 3. Mass Save MOU
- 4. Signed Designer Statement
- 5. LEED Registration Documentation



Clinton Middle School – Clinton, MA PSR Sustainability Narrative

The Clinton Middle School has identified environmental sustainability as an important goal for this project. This goal is one that is shared by the members of the design team. The team is committed to meeting the minimum MSBA Sustainable Requirements with a project team goal to qualify for the additional 4% (both the Opt-In Specialized Code for 3% and the five LEED IEQ points for 1%) reimbursement from the MSBA under the Green Schools Program.

Clinton Middle School has determined the project will pursue LEED v4. The project has been registered due to the USGBC's recent announcement updating energy performance thresholds, which affects points earned in the Optimize Energy Performance credit. Since the change goes into effect on March 1, 2024, registering before this date allows the project to lock into the old thresholds.

The goals and targets for a sustainable project include designing an energy-efficient building with minimal environmental impact that actively serves as an educational tool, (interactive/hands-on in some cases) for its inhabitants, including staff, educators, students, and visitors. Sustainable features will be further reviewed and refined as the design develops.

Making sustainable choices for the built environment requires the collaboration of all design disciplines in an integrated process. Sustainable design and energy efficiency decisions impact not only the building and grounds, but also the end users - students and educators, building visitors and those that will be responsible for operations and maintenance. The entire project team, including Clinton Public Schools representatives have met to collectively review and discuss sustainable design and energy efficiency.

The Sustainability workshop gave the team the opportunity to brainstorm ideas, and to create a shared set of sustainable goals and expectations for the project that are in alignment with the LEED for Schools v4 rating system. The outcome of this workshop included a preliminary set of sustainability goals. The workshop was an important part of the integrated design process and continued to inform the team's work moving forward. Follow-up meetings have occurred to further discuss sustainability goals and advance synergies between team members. Energy has been a large focus point during these meetings, examining different energy system options.

The project will actively promote environmental stewardship. The site of the project is a previously developed site that is bound by Sandy Pond to the south. At the workshop the team discussed building siting, stormwater management, and preserving the natural landscape and the educational opportunities the site can offer.

The building systems have been selected to maximize energy efficiency while providing essential heating, cooling, and ventilation needs. The project team is committed to an all-electric building and will utilize a geothermal heat pump system. Systems will include air source heat pumps and VRF heat-recovery. Plumbing fixtures with low flush and flow rates and high efficiency commercial kitchen equipment will be specified to minimize the demand for potable water for sewage conveyance and process uses.

Materials and products used in the construction of the project will carry product disclosure declarations, have recycled content, and be regionally obtained to the greatest extent possible. Finishes will be low VOC compliant to provide a healthy interior learning environment.

The interior layout will reflect the school's curriculum and will provide a highly collaborative learning environment while maximizing access to daylight and views.

The attached project LEED scorecard represents an assessment of the project against the LEED for Schools v4 requirements. The scorecard indicates 51 points as 'Yes; and 49 as 'Maybe'. A project must earn a



minimum of 50 points for LEED Silver certification. The team has strong confidence that those points tracked as 'Yes' will be earned, however, some credits may prove unattainable due to unforeseen circumstances as design and construction progresses. A large number of credits remain 'Maybe' at this point, where final decisions or calculations have not been made. The team's goal is to pick up an additional 5 or 6 points from the 'Maybe' column, which will give us the buffer we need to achieve LEED Silver certification.

It should be noted that while the project seeks to achieve certification under LEED for Schools v4, our approach is not one of "point chasing" to maximize a LEED score. Rather the project team will endeavor to design and construct a building which minimizes its impact on the environment as well as its life-cycle and long-term operating costs, while managing and reducing the burden the building will place on the local infrastructure. We will use LEED primarily as a validation tool and to check the project against the sustainable design goals. In general, the project team will not base design decisions strictly on achieving LEED certification.



Project: Clinton School Address: 100 W Boylston Street, Clinton, MA 01510 Date: 2/16/2024

Yes	Maybe	No		
0	1	0	INTEGRATIVE PROCESS	1
	1		IPc1 Integrative Process	1
Yes	Maybe	No		
2	4	9	LOCATION & TRANSPORTATION	15
		Ν	LTc1 LEED for Neighborhood Development Location	15
1			LTc2 Sensitive Land Protection	1
	2		LTc3 High Priority Site (RP 2 pts)	1-2
		5	LTc4 Surrounding Density and Diverse Uses (RP 4 pts)	1-5
		4	LTc5 Access to Quality Transit	1-4
	1		LTc6 Bicycle Facilities	1
	1		LTc7 Reduced Parking Footprint	1
1			LTc8 Green Vehicles	1
Yes	Maybe	No		
4	8	0	SUSTAINABLE SITES	12
Υ		-	SSpr1 Construction Activity Pollution Prevention	Req'd
Y	1		SSpr2 Environmental Site Assessment	Req'd
1			SSc1 Site Assessment	1
	2		SSc2 Site Development - Protect or Restore Habitat	1-2
1			SSc3 Open Space	1
	3		SSc4 Rainwater Management	2-3
	2		SSc5 Heat Island Reduction	1-2
1			SSc6 Light Pollution Reduction	1
	1		SSc7 Site Master Plan	1
1			SSc8 Joint Use of Facilities	1
Yes	Maybe	No		
5	7	0	WATER EFFICIENCY	12
Y			WEpr1 Outdoor Water Use Reduction	Req'd
Y			WEpr2 Indoor Water Use Reduction	Req'd
Υ			WEpr3 Building-level Water Metering	Req'd
1	1		WEc1 Outdoor Water Use Reduction (RP 2 pts)	1-2
3	4		WEc2 Indoor Water Use Reduction	1-7
	2		WEc3 Cooling Tower Water Use	1-2
1			WEc4 Water Metering	1
Yes	Maybe	No		
20	11	0	ENERGY & ATMOSPHERE	31
Y			EApr1 Fundamental Commissioning and Verification	Req'd
Y			EApr2 Minimum Energy Performance	Req'd
Y			EApr3 Building-level Energy Metering	Req'd
Y			EApr4 Fundamental Refrigerant Management	Req'd
6			EAc1 Enhanced Commissioning	2-6
14	2		EAc2 Optimize Energy Performance (RP 8 pts)	1-16
	1		EAc3 Advanced Energy Metering	1
	2		EAc4 Demand Response	1-2
	3		EAc5 Renewable Energy Production (RP 2 pts)	1-3
	1		EAc6 Enhanced Refrigerant Management	1
	2		EAc7 Green Power and Carbon Offsets	1-2

Yes	Maybe	No		
4	8	1	MATERIALS & RESOURCES	13
Y			MRpr1 Storage & Collection of Recyclables	Req'd
Y			MRpr2 Construction and Demolition Waste Management Plan	Req'd
	4	1	MRc1 <u>Building Life-Cycle Impact Reduction (RP 2 pts)</u>	2-5
1	1		MRc2 Building Product Disclosure & Optimization-EPD's	1-2
	2		MRc3 Building Product Disclosure & Optimization-Raw Materials	1-2
1	1		MRc4 Building Product Disclosure & Optimization-Material Ingredients	1-2
2			MRc5 Construction and Demolition Waste Management	1-2
Yes	Maybe	No		
9	7	0	INDOOR ENVIRONMENTAL QUALITY	16
Y			EQpr1 Minimum IAQ Performance	Req'd
Y			EQpr2 Environmental Tobacco Smoke (ETS) Control	Req'd
Y			EQpr3 Minimum Acoustical Performance	Req'd
2			EQc1 Enhanced IAQ Strategies	1-2
3			EQc2 Low-Emitting Materials	1-3
1			EQc3 Construction IAQ Management Plan	1
1	1		EQc4 IAQ Assessment	1-2
1			EQc5 Thermal Comfort	1
1	1		EQc6 Interior Lighting	1-2
	3		EQc7 Daylight	1-3
	1		EQc8 Quality Views	1
	1		EQc9 Acoustic Performance	1
Yes	Maybe	No		
6	0	0	INNOVATION	6
1			INc1.1 Innovation: O&M Toolkit: Green cleaning and Pest management	1
1			INc1.2 Innovation: Building as an Educational Tool	1
1			INc1.3 Innovation: EP for EPDs or HPDs	1
1			INc1.4 Innovation: Occupant Comfort Survey or Other IN	1
1			INc1.5 Pilot credit: Integrative Analysis of Building Materials	1
1			INc2 LEED Accredited Professional	1
Yes	Maybe	No		
1	3	0	REGIONAL PRIORITY 01510 (underlined)	4
	1		RPc1 Renewable Energy Production (2 pnts)	1
	1		RPc2 Building Life-Cycle Impact Reduction v4.1 (2 pnts)	1
	1		RPc3 Outdoor Water Use Reduction (2 pnts)	1
1			RPc4 Optimize Energy Performance (8 pnts)	1
-		-	RPcX High Priority Site (2 pnts)	1
			RPcX Surrounding Density and Diverse Uses (4 pnts)	1
Yes	Maybe	No		
51	49	10	PROJECT TOTALS (Certification Estimates)	110

Certified: 40-49 points Silver: 50-59 points Gold: 60-79 points Platinum: 80+ points



NEW CONSTRUCTION & MAJOR RENOVATIONS

2022 Memorandum of Understanding for Path 1: Net Zero & Low **EUI Buildings (K-12 School)**

Welcome to the Path 1, Net Zero & Low EUI Buildings Program! This Program encourages customers to pursue a sustained focus on low Site Energy Use Intensity (EUI) from early design all the way through post occupancy. Path 1 is a performance-based participation pathway, such that final customer incentives are based on the building's post occupancy site EUI. While the Program is a path to zero incentive offer, customers are not required to install solar or purchase renewable energy offsets to participate.

Definition: Site EUI is a measure of a building's gross annual site energy consumption (including all fuels) relative to its gross square footage. The units are kBtu/sf/year. For this Program, gross square footage excludes parking garages and penthouse square footage, as these are not typically conditioned spaces.' The Program's EUI calculation does not include onsite renewables.

Project Eligibility:

- 1. To participate, customers must engage Mass Save Sponsors² before the end of their project's Design Development phase, but preferably during their project's Feasibility or Conceptual Design phases.
- 2. Projects must be whole buildings and must have a minimum of 10,000 square feet of comfort conditioned (heated and cooled) space.
- 3. Customers must anticipate year round occupancy. For K-12 schools, this requirement means a minimum of 4 weeks of anticipated summer use in classroom areas.
- 4. Building must be separately metered (not on same meters as other buildings).
- 5. Projects must be new buildings, building additions, or full gut renovations. Gut renovations would qualify for this Program if the scope is such that occupancy is not possible during construction and where scope includes at least 3 of the following 5 systems: (1) HVAC, (2) DHW, (3) lighting, (4) envelope, and (5) process equipment.
- 6. The project may not include Combined Heat and Power (CHP) or utilize district steam. Projects on campus central plants may or may not be eligible - talk with your Mass Save Sponsors.
- 7. Participants must be customers of one of the Mass Save Sponsors. Note that projects located in the service territory of a municipal electric utility are not eligible for this path.

WE ARE MASS SAVE":









(3 Unitil)

- EUI calculations will exclude exterior lighting loads (parking garages/lots) and associated loads in garage space (i.e., exhaust fans). If there are enclosed spaces in garages with equipment loads (i.e., unit heaters in elevators lobbies), these loads and square footages will be included in the building's EUI calculation.
- 2. The Mass Save Sponsors are National Grid, Eversource, Unitil, Cape Light Compact, Liberty Utilities, and Berkshire Gas. To determine your Mass Save Sponsors, please visit https://www.masssave.com/en/saving/business-rebates.

Key Customer Commitments:

1. To participate, project teams must be willing to set a site EUI target within Tier 1 or Tier 2 per Table 1 below. Note that Tier 2 is only relevant for high school projects.

Table 1: EUI Targets & Incentives

	Site EUI Range	Incentives				
K-12		Payable at end of Construction		Payable at end of 1 yr. post occupancy		
Schools		Construction Incentive \$/sf	Heat Pump Adder*	Post Occ. Inc. \$/sf	Adder for getting under ZNE EUI target	Certification Incentive
Tier 2 (high schools only)	26-29	\$1.50	Air Source Heat Pumps: \$800/ton		Not applicable	
Tier 1 - Net Zero Level (all Schools)	25 or less	\$2.00	Variable Refrigerant Flow (VRF): \$1200/ton Ground Source Heat Pumps: \$4500/ton	\$ 1.50	\$0.05/ EUI point reduction/sf	\$3,000

* Equipment must be used as a primary heating source to qualify. The heat pump adder is only available for equipment that transfers heat from a source outside of the building (i.e. outside air or a ground loop) for space heating purposes. In order to maximize the benefits of electrification designs, supplemental electric resistance and/or fossil fuel use (if any) must be limited. Projects not achieving an average annual heating system performance greater than a COP of 2.0 will be considered on a caseby-case basis.

The incentive calculation is based upon the nominal heating capacity (btu/h) at AHRI or ISO conditions divided by 12,000.

· Air Source Heat Pumps (ASHP): heating capacity at AHRI standard rating conditions

Air-to-Air Systems: AHRI 340/360 - OA 47°F db

Air-to-Water Systems: AHRI 550/590 - OA 17°F db, LWT 120°F

Variable Refrigerant Flow – Air Source (VRF): heating capacity at AHRI 1230 standard rating conditions

Air-to-Refrigerant Systems: OA 47°F db

Ground Source Heat Pumps: heating capacity at ISO 13256 or AHRI 1230 (if VRF) standard rating conditions Ground Loop Heat Pump (GLHP): 32°F liquid entering heat exchanger Ground Water Heat Pump (GWHP): 50°F liquid entering heat exchanger

Incentives for ground source heat pump projects will be based upon the lesser value of the peak heating load capacity of the heat pump systems or the peak heating load capacity of the ground loop/well.

- 2. Agree to cost share the services of the Mass Save net zero/EUI expert.
- 3. Continuously monitor the predicted EUI of the project with iterative energy modeling throughout each phase of design. Design team's energy model should meet the requirements of ASHRAE 90.1 G2.2. At minimum, whole building energy modeling runs must take place at 100% Schematic Design, 50% Design Development, 100% Design Development and 100% Construction Documents (National Grid may request additional runs). Project teams will need to report predicted EUIs to their Mass Save Sponsors at each of these intervals.
- 4. Ensure electric vehicle charging stations are separately metered.
- 5. Ensure any on site generation is separately metered.
- 6. Ensure any non-ancillary unconditioned spaces (e.g., parking garages) are separately metered.
- 7. Meet the requirements of ASHRAE 90,1-2016, para, 8,4,3 related to metering and data storage and provide post occupancy data to the Sponsors of Mass Save as listed in Step 6 of this document at the end of an agreed-upon one-year post occupancy period.

Key Mass Save Sponsor Commitments:

- 1. Cost share the services of a net zero/low EUI expert (50% of fee up to \$10,000 cost share) with the customer to help the project team develop a roadmap to low EUI and net zero success.
- 2. Offer project incentives per Table 1 above. Note that the "Certification Incentives" referenced in the table will be offered for projects certified to the specific net zero or Passive House standards listed at the end of this document.
- 3. Offer a separate Verification Incentive (50% cost share up to \$10,000) to help customers and their teams achieve the predicted EUI once the building is operating. Ask your Mass Save Sponsors for details.

This document outlines the roles and responsibilities of each party to set transparent expectations for all parties participating in the Program. Under no circumstances does this Memorandum require customers or design teams to incorporate any particular EUI reduction strategy, nor does this document bind customers or design teams to a particular EUI target. All assistance offered by Mass Save Sponsors through this Program is offered in an advisory capacity only and is subject to change.

THE MASS SAVE SPONSORS UNDERSTAND THAT THE FOLLOWING CUSTOMER:						
The Customer (name): Clinton Public Schools, Town of Clinton, MA						
will undertake the following (check applicable):						
✓ new construction		major renovation			addition	
Project Schedule	100%	SD	100% DDs	100% CDs	Expec	ted Construction Completion
(Dates)	2/2024	}	10/2024	05/2025 8/2027		7
Premises (address	s): 100 We	est Boyls	ton Street, Clint	on, MA 01510		
Premises SF (excluding un- conditioned space): 136,000 Premises EUI Target (kBTU/SF): 25					25	
This project's design team professionals include:						
Architect: Lamoureux Pagano Associates Architects, Inc.						
Electrical Engineer: ART Engineering, Inc.						
Mechanical Engineer: Seaman Engineering Corporation						
Participating Mass Save Sponsors:						
Electric Sponsor: National Grid						
• Gas Sponsor: N/A						

IMPORTANT:

Customers participating in this pathway may not also participate in the Mass Save midstream programs where incentives for HVAC, domestic hot water, food service and lighting equipment are offered directly to distributors. To ensure participation in only one Mass Save program pathway, designers must include language in project documents informing contractors that this project is participating in a Mass Save downstream program pathway, and that they may not pursue or accept any HVAC, domestic hot water, food service or lighting midstream incentives for this project.

Detailed Process:

Step 1 - Set an EUI Target and Take Advantage of the Services of a Net Zero Expert

Engage with your Mass Save Sponsors as early as possible in design. You'll need to participate in a net zero scoping session and set a target EUI as early as possible in design. To assist the project team in achieving its target EUI, Mass Save Sponsors will enlist the support of a net zero specialist who will provide technical assistance and road mapping services for the project through feasibility and early design. We'll work with you on the best scope to suit your project needs, though we do have a minimum scope that we require and ask customers to cost share.

Step 2 - Design to the Target EUI

The project team will pursue the EUI target throughout design and will conduct the iterative energy modeling necessary to ensure the design remains on track.

Step 3 - Make Sure You're Ready to Assess Post Occupancy Performance

Develop a plan to collect post occupancy EUI data (data collection requirements are detailed in Step 6 below). Consider how you'll take corrective action if the project strays from the final design EUI. Mass Save Sponsors offer a separate "Verification Incentive" that can help. Ask your Mass Save Sponsors for more information.

Step 4 - Mass Save Sponsors Issue Incentive Offer Letters

At the end of design, provide the Mass Save Sponsors with the design team's energy model and a short report that details:

- The final design's site EUI.
- The final predicted energy use for electricity as well as any fossil fuels (natural gas, propane, oil).
- The building's total gross square footage per the definition on the first page of this MOU.
- Whether there is a natural gas meter associated with the building for any purpose, including backup generation.
- If heat pumps are included in the design, state the heat pump type(s) and nominal heating capacity (btu/h) at AHRI conditions divided by 12,000 for each heat pump type.

Mass Save Sponsors will issue incentive offer letters per Table 1 in this document based on the Tier in which the final design EUI lands. If more than one Mass Save Sponsor is participating, the customer may receive two incentive offers summing to the incentive levels in Table 1. The incentive offers will be split into two major components and payment timeframes:

- Payment 1: Mass Save Sponsors will make their first payment at the end of construction. It will include both the \$/sf Construction Incentive and the Heat Pump Adder, if applicable.
- Payment 2: Mass Save Sponsors will make the second payment(s) at the end of an agreed upon one-year post occupancy period.
 - The post occupancy payment will be made if the operating EUI lands within the Tier the project set out to achieve.
 - The \$3,000 certification incentive payment will be made if the project achieves ZNC/ZNE or Passive House certification.

Customer incentives are capped at 100% of the combined incremental cost of the EUI reduction strategies included in the project. Projects must be cost-effective to receive the full customer incentives and are subject to each Mass Save Sponsor's program budget.

Customers are required to sign:

- 1. Custom application, formally requesting Mass Save incentives.
- 2. The Mass Save incentive offer letter from each Mass Save Sponsor, and



3. The Mass Save Minimum Requirements Document (MRD), which lays out the energy-using equipment and system details that will lead the project to achieve the target EUI.

Customers must commit to constructing the building as it was designed and documented in the MRDs. Major deviations from the design could jeopardize the project's ability to achieve the target EUI and opportunity to obtain full incentives.

At the end of design, the Mass Save Sponsors will request pdfs of the Final Design Documents. The Mass Save Sponsors may conduct further analysis at their own expense to determine more granular information regarding Mass Save program energy savings. The Mass Save Sponsors will share the design documents with at least one additional vendor at their discretion at this time.

Step 5 - Construction and Construction Phase Incentive Payment

A few weeks before substantial completion, customers must provide a set of approved submittals, invoices and photographs corresponding with major equipment that is key in attaining the predicted EUI. All projects participating in the Program are subject to inspection by each participating Mass Save Sponsor.

Once Mass Save Sponsors complete their review and affirm the project was built substantially in accordance with the design, they will make the construction phase incentive payments to the customer.

Step 6 - Post Occupancy Incentive, Verification Incentive, and Certification Incentive

Once the building is functioning in a steady state, the customer and the Mass Save Sponsors agree to begin the Mass Save Performance Period, which will last for one year. At the end of the Mass Save Performance Period, the customer is responsible for supplying post occupancy energy usage data for Mass Save Sponsors to review.

The Mass Save Performance Period as it relates to the post occupancy incentive will begin once the customer affirms:

- The metering system is set up and operating properly per ASHRAE 90.1-2016, para. 8.4.3. The system shall be capable of maintaining all data collected for a minimum of 36 months.
- All significant corrective action the customer intends to take has been completed.
- The occupancy and use of the building have reached a "steady state."

Customer shall supply the Sponsors of Mass Save with the following at the end of the Performance period:

- Final commissioning report, if available.
- Electrical energy usage for the following loads shall be recorded and reported to Mass Save on at least an hourly, daily, monthly and annual basis for the one-year period (Exception – up to 10% of the load for each of the following categories (b) through (e) shall be allowed to be from other electrical loads):
 - a. Total building electrical energy
 - b. HVAC systems
 - c. Interior lighting
 - d. Exterior lighting
 - e. Receptacle circuits
 - f. On site generation
- Energy use from non electrical sources (e.g., gas or propane for space heating, cooking, hot water, etc.) must be recorded and reported at least monthly (or if using delivered fuels, as often as deliveries are made) and annually for the same one-year period as for the electrical usage.
- All data shall be provided in either an Excel or CSV format.



If, at the end of the Mass Save Performance Period, the building achieves an operational EUI, which, when adjusted for weather by the Mass Save Sponsors, falls within the Tier in which the project's final design EUI landed, the Mass Save Sponsors will pay the customer the additional \$1.50/sf incentive for this Program. The post occupancy EUI is adjusted for weather so that customers are not unfairly penalized for particularly harsh weather and are not unfairly benefitted by particularly mild weather.

If the customer opts to certify the project as net zero in accordance with LEED Zero or the International Living Future Institute's (ILFI's) Living Building Challenge 4.0 (including Zero Carbon, Zero Energy, CORE. Petal or Living Certification), the New Buildings Institute's (NBI's) zero energy standards, or if they receive Passive House certification from either PHIUS or PHI, the Mass Save Sponsors will pay a \$3,000 certification incentive.

By signing below, customers represent that they (1) will be the lawful utility customers of the Premises and (2) have read, understand, accept, and agree to the terms and conditions for participation in the Program outlined above. The project's lead architect is required to also review and sign the MOU acknowledging that he/she has read and understands the terms and conditions for participation.

MCM	Steven Meyer
Customer Signature:	Customer Printed Name:
Date: 12 4 23 Phone: 508-365-4200	Email: smeyer@clinton.k12.ma.us
m.Marel	Eric Moore, Lamoureux Pagano Associates
Architect Signature:	Architect Printed Name and Company Affiliation:
Date: 12 4/2023 Phone: 508-752-2831	Email: emoore@lpaa.com

Disclaimers

Except for payment of incentives as set forth hereunder, the Mass Save Sponsors do not make any representations, warranties, promises or guarantees in connection with the Program, energy conservation measures (ECMs), EUI reduction strategies, energy savings, benefits, adequacy or safety of ECMs or other items, or any work, services or other item performed in connection with the Program including, without limitation, the warranty of merchantability or fitness for a particular purpose. Also, other than the (i) energy credits, and (iv) renewable energy credits (altogether, the "Customer Credits"), the Mass Save Sponsors have unilateral rights to apply for any credits or payments resulting from the Program or ECMs (the "Sponsor Credits"). Such Sponsor Credits include but are not limited to credits and payments for: (a) ISO-NE capacity. (b) forward capacity credits, (c) other electric or natural gas capacity and avoided cost payments or credits, and (d) demand response program payments. Customer waives, and agrees not responsible for the payment of any taxes assessed by federal, state or local governments on either benefits conferred on the customer by the Sponsor(s) or design incentives paid to the design team.

MSBA Module 4 Schematic Design

4.1.2 SCHEMATIC DESIGN BINDER

J. Designer Statement

This is an acknowledgement that the Clinton Public Schools District has identified a minimum goal of 4% additional reimbursement from the MSBA High Efficiency Green School Program. As their Designer, I have submitted a completed LEED scorecard showing a minimum of fifty-one (51) attempted points, which will meet that goal.

The scope of work for this project will include the construction elements and performance tasks to achieve that goal, and all subsequent documents, including but not limited to, specifications, drawings, and cost estimates will match the scope of work indicated in the submitted scorecard.

Eric Moore, AIA

Lamoureux Pagano Associates | Architects

In ? Mone





Grace Healy, LEED AP BD+C

Sustainability Consultant I

The Green Engineer | Sustainable Design Consulting D: 978.341.5466| O: 978.369.8978 E:grace@greenengineer.com

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We are an Employee-Owned, Certified B Corporation, and a Massachusetts Benefit Corporation.

From: LEED Info <leedinfo@usgbc.org> Sent: Tuesday, February 13, 2024 9:03 AM To: Grace Healy <grace@greenengineer.com> Subject: Thank you for your LEED Project Registration

U.S. GREEN BUILDING COUNCIL



Dear Grace Healy,

Your LEED project has been successfully registered in <u>LEED Online</u>. You may now log into <u>LEED Online</u> to manage your project and prepare documents for submittal to GBCI. To find out more about what to expect during the certification process, please refer to our <u>Guide to LEED Certification</u>.

Project ID Project Name Project Rating System Registration Type Registration Date Project Location : 1000193738 : Clinton Middle School : LEED v4 BD+C: SC : Individual Project : 02/13/2024

: Clinton, MA, US, 01510

We wanted to alert you to some great resources for you and your team as you get started with the LEED Certification process.

KEY RESOURCES

• Guide to LEED Certification

- Mah haard Deference Ouidee

- <u>vveb-based Reference Guides</u>
- <u>GBCI Reviewer Submittal Tips</u>
- LEED Credit Library
- LEED v4/v4.1 Course Playlist
- Performance Tracking in Arc

Did you know some of your most useful tools can be accessed directly from <u>LEED Online</u>? When you click on the **"Credits"** tab in your project, and click on a credit that is 'attempted' you will see several helpful resources buttons appear, including:

- The "Credit Library" button will take you directly to the credit-specific credit language. Once you are in the credit library, be sure to check out the "Resources" button. For most credits, this contains key Worksheets, Calculators, Guidance Documents, as well as credit-specific Submittal Tips.
- Click the "Education" button for a credit-specific, web-based tutorial.

For more information, please refer to our <u>Help Center</u>.

Please don't hesitate to reach out and <u>Contact us</u>. We are here to help! 1-800-795-1747(within U.S.)

+ 1-202-742-3792 (outside U.S.)

https://gbci.org/contact

This is an automatically generated email. Please do not reply to this message.



4.1.2 SCHEMATIC DESIGN BINDER

- K. Accessibility Compliance & Historical Commission
 - 1. Accessibility Compliance
 - 2. MHC PNF & Approval

Schematic Design

4.1.2 SCHEMATIC DESIGN BINDERK. Accessibility Compliance & Historic Commission1. Accessibility Compliance

The proposed Clinton Middle School, as new construction, is required to comply fully with the Rules and Regulations of 521 CMR: Architectural Access Board. This is an acknowledgement that the proposed design is in accordance with those requirements; and complies with ADA Standards for Accessibility (unless superseded by MA–AAB rules and regulations).

Eric Moore, AIA Lamoureux Pagano Associates | Architects

In Mone







Kathryn Crockett Richard J. Lamoureux, Jr. Eric D. Moore Robert Para, Jr.

23 October 2023

Massachusetts Historical Commission 220 Morrissey Boulevard Boston, MA 02125

Re: Clinton Middle School Clinton, Massachusetts Project Notification Form

To Whom it May Concern:

On behalf of the Town of Clinton, please find attached the Massachusetts Historical Commission Project Notification Form for the Clinton Middle School located at 100 West Boylston Street, Clinton, Massachusetts, prepared by our office.

We have included reduced size drawings for this submission. If you require full size drawings, electronic file, or have any other questions, please feel free to contact me.

Sincerely,

Vone

Eric D. Moore, AIA Sr. Project Architect

EM/pf

cc: Steven Meyer, Superintendent, Clinton Public School District Michael Ward, Town Administrator, Town of Clinton Trip Elmore, OPM, Dore + Whittier Architects Clinton Historical Society

> Lamoureux Pagano Associates Architects 108 Grove Street, Suite 300, Worcester MA 01605

<u>APPENDIX A</u> MASSACHUSETTS HISTORICAL COMMISSION 220 MORRISSEY BOULEVARD BOSTON, MASS. 02125 617-727-8470, FAX: 617-727-5128

PROJECT NOTIFICATION FORM

Project Name: Clinton Middle School				
Location / Address: 100 West Boylston Street				
City / Town: <u>Clinton, MA</u>				
Project Proponent				
Name: Lamoureux Pagano Associates Architects, Inc.				
Address: 108 Grove Street, Suite 300				
City/Town/Zip/Telephone: Worcester, MA 01605; Tel: 508-752-2831				
Agency license or funding for the project (list all licenses, permits, approvals, grants or other entitlements being sought from state and federal agencies).				
<u>Agency Name</u> <u>Type of License or funding(specify)</u>				
Massachusetts School Building Authority (MSBA)- New Construction Funding MA Save - Utility Incentive/Grant Funding Town of Clinton, MA				

Project Description (narrative):

This Project includes New Construction of a 136,000 GSF, 700–student replacement Middle School building for grades 4–8 with related access, parking, fields, and site amenities. The existing school was constructed in 1976 and will remain occupied through the phased construction and demolished over the summer/fall of 2027 after completion of the new building.

The Town engaged in a feasibility study based on the detailed Massachusetts School Building Authority (MSBA) process, which included reviewing the possibility of renovation/additions of the existing school building and new construction on the existing site. At the Town's direction, there are no available properties with the District that could support the new school program. This study concluded that phased new construction at the existing Clinton Middle School site was the preferred option. The Feasibility Study was conducted using a transparent public meeting process and voted on by the Town's Permanent Building Committee. Existing floor plans, proposed site plan, and existing exterior photos are attached to this form for reference. The full Feasibility Study is available for review on the Town's associated project website here: https://www.clintonmiddleschoolbuildingproject.com/

Does the project include demolition? If so, specify nature of demolition and describe the building(s) which are proposed for demolition.

Yes; the project scope will include the complete demolition of the existing 1976 middle school and site features. The existing Middle School is a two-story, 126,000 square foot building with unreinforced 8" CMU/4" brick veneer exterior walls. The floors are concrete slabs-on deck with steel framing to support the second floor and roof. Most of the original windows were replaced in the past decade with new aluminum-framed windows. The existing building and systems are vintage to the original construction. The Feasibility Study concluded that renovations or additions and renovations of the existing building would not adequately meet the school District's program needs.

Does the project include rehabilitation of any existing buildings? If so, specify nature of rehabilitation and describe the building(s) which are proposed for rehabilitation. No.

Does the project include new construction? If so, describe (attach plans and elevations if necessary). Yes; the proposed new middle school building is increased in size from the existing building in order to accommodate the larger enrollment (grades 4–8), additional STEM programs, the need to bring all the program spaces up to compliance with the MSBA guidelines, and the District's educational program. The new school will be on two floor levels, with two academic wings and core facilities. The Auditorium, Gymnasium, Cafeteria, Media Center, and medical/guidance/administrative suites are positioned in the school so that they may be securely accessed by the community after hours for sports, arts, or other after–school activities.

The landscape scope of work for the new Clinton Middle School provides a sensitivity to the5/31/96 (Effective 7/1/93) - corrected950 CMR - 275

surrounding context while improving universal pedestrian access, vehicular circulation, stormwater mitigation strategies and expanded outdoor programming for the school. The adjacent berm to the reservoir is to remain with the project work beginning to the north at the base of the slope. Entry plazas include unit paving to reinforce hierarchy and wayfinding as well as seating and landscaping improvements. Rain garden plantings provide a buffer between the new recreation field and the road (in the existing drainage swale). Site amenity upgrades include basketball court replacement/relocation, drainage improvements at recreation fields, and a new playground and outdoor learning classroom. Service area improvements include screening at dumpsters. The scope also includes perimeter fence replacement to maintain site security.

APPENDIX A (continued)

To the best of your knowledge, are any historic or archaeological properties known to exist within the project's area of potential impact? If so, specify.

No. The Clinton Middle School building/site is not listed on either the Massachusetts Cultural Resource Information System (MACRIS) or the National Register of Historic Places.

The Clinton Middle School building/site is near, but not part of, the Wachusett Dam Historic District (Property ID 89002269) located at the north end of the Wachusett Reservoir at Lancaster Millpond. The Wachusett Dam Historic District consists of the Wachusett Dam, Lower Gatehouse, lightning arrestor chamber, two bridges and two maintenance buildings.

What is the total acreage of the project area?

Woodland	3.967	acres
Wetland	0.0	acres
Floodplain	0.0	acres
Open space	5.702	acres
Developed	9.964	acres

Productive Resources:		
Agriculture	0.0	acres
Forestry	0.0	acres
Mining/Extraction	0.0	acres
Total Project Acreage	26.80	acres

What is the acreage of the proposed new construction? 15.665 acres

What is the present land use of the project area?

Middle School building, parking access, playground, and athletic fields.

Please attach a copy of the section of the USGS quadrangle map which clearly marks the project location. Refer to attach "Clinton Quadrangle" map.

This Project Notification Form has been submitted to the MHC in compliance with 950 CMR 71.00.

Signature of Person submitting this form	Date: 10/23/2023
Name: Eric Moore	- /

7/1/93

950 CMR - 276

950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH Address: <u>108 Grove Street</u>, Suite 300

City/Town/Zip: Worcester, MA 01605

Telephone: <u>508-752-2831</u>

REGULATORY AUTHORITY

950 CMR 71.00: M.G.L. c. 9, §§ 26-27C as amended by St. 1988, c. 254.

MSBA Module 3 Feasibility Study PDP





3.1.3 SPACE SUMMARY B. Floor Plans of Existing Facility

1. Existing Building Floor Plan – First Floor







3.1.3 SPACE SUMMARYB. Floor Plans of Existing Facility2. Existing Building Floor Plan – Second Floor





EXISTING EXTERIOR PHOTOS

Massachusetts Historical Commission

Project Notification Form



View of south side of building, showing the greenhouse, looking northeast.



View of south side main entrance, looking northeast.





EXISTING EXTERIOR PHOTOS

Massachusetts Historical Commission

Project Notification Form



View of south side main entrance, looking northeast.



View of south side main entrance, looking northwest.





Massachusetts Historical Commission

Project Notification Form



View at the southeast corner of the building, looking northeast.







Massachusetts Historical Commission

EXISTING EXTERIOR PHOTOS

Project Notification Form



View of east side of building, looking northwest.



View of east side of building, looking southwest.




Project Notification Form



View of northeast corner of building, looking southwest.



View of north side of building, looking southwest.





Project Notification Form



View of secondary entrance on north side of building.







Project Notification Form







EXISTING EXTERIOR PHOTOS

Project Notification Form



View of northwest corner, looking southeast.





EXISTING EXTERIOR PHOTOS

Massachusetts Historical Commission

Project Notification Form



View of northwest corner of the bulding, looking south.



View of west side of building, looking east.









CLINTON QUADRANGLE MASSACHUSETTS - WORCESTER COUNTY 7.5-MINUTE SERIES





Produced by the United States Geological Survey North American Datum of 1983 (NAD83) World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid:Universal Transverse Mercator, Zone 19T This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

......NAIP, July 2016 - September 2016 U.S. Census Bureau, 2018GNIS, 1974 - 2018 Imagery... Roads..... Names..... Hydrography..... Contours.. Boundaries... Wetlands... ..FWS National Wetlands Inventory 1992 - 2008

MN

14°13′ 253 MILS

1°49′ 32 MILS





CLINTON, MA

2021



MSBA Module 3 Feasibility Study PSR



NOTES:



3.3.4 PREFERRED SOLUTION E. Site Plans & Sections 1. Site Plan

New Construction New Athletic Field Existing Building

Bus Circulation Parent Circulation Access Road



RECEIVED

<u>APPENDIX A</u> MASSACHUSETTS HISTORICAL COMMISSION 220 MORRISSEY BOULEVARD BOSTON, MASS. 02125 617-727-8470, FAX: 617-727-5128

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MASS. HIST. COMM RL73257

OCT 2 4 2023

PROJECT NOTIFICATION FORM

Project Name: Clinton Middle School

Location / Address: 100 West Boylston Street

City / Town: Clinton, MA

Project Proponent

Name: Lamoureux Pagano Associates Architects, Inc.

Address: 108 Grove Street, Suite 300

City/Town/Zip/Telephone: Worcester, MA 01605; Tel: 508-752-2831

Agency license or funding for the project (list all licenses, permits, approvals, grants or other entitlements being sought from state and federal agencies).

Agency Name

Type of License or funding (specify)

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5/31/96 (Effective 7/1/93) - corrected

950 CMR - 275

Elizabeth Sherva Preservation Planner Massachusetts Historical Commission XC: MSBA

After review of MHC files and the materials

you submitted, it has been determined that this project is unlikely to affect significant historic or archaeological resources.

RC. 7395

The Town engaged in a feasibility study based on the detailed Massachusetts School Building Authority (MSBA) process, which included reviewing the possibility of renovation/additions of the existing school building and new construction on the existing site. At the Town's direction, there are no available properties with the District that could support the new school program. This study concluded that phased new construction at the existing Clinton Middle School site was the preferred option. The Feasibility Study was conducted using a transparent public meeting process and voted on by the Town's Permanent Building Committee. Existing floor plans, proposed site plan, and existing exterior photos are attached to this form for reference. The full Feasibility Study is available for review on the Town's associated project website here: https://www.clintonmiddleschoolbuildingproject.com/

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950 CMR - 275

5/31/96 (Effective 7/1/93) - corrected

<u>APPENDIX A</u> (continued)

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Signature of Person submitting this form	Date: 10/23/2023
Name: Eric Moore	

7/1/93

950 CMR - 276

950 CMR: OFFICE OF THE SECRETARY OF THE COMMONWEALTH Address: <u>108 Grove Street</u>, Suite 300

City/Town/Zip: Worcester, MA 01605

Telephone: <u>508-752-2831</u>

REGULATORY AUTHORITY

950 CMR 71.00: M.G.L. c. 9, §§ 26-27C as amended by St. 1988, c. 254.

7/1/93

950 CMR - 276

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4.1.2 SCHEMATIC DESIGN BINDER

L. Room Data Sheets

Clinton Middle School **Room Data Sheets**

Prepared by: Lamoureux Pagano Associates September 2023

100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

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100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

ROOM DATA SHEETS

KEY PLAN



LEVEL 2 FLOOR



LEVEL 1 FLOOR





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

MILLWORK / CASEWORK KEY

- M1 48"w x 84"h lockable teacher wardrobe with clothes pole and 5 shelves for storage
- M2 48"w x 84"h supply cabinet with lockable doors, center divider and 5 adjustable shelves
- M3 34"h base cabinet with drawers and doors, a plastic laminate counter top, and a backsplash. May contain a sink (refer to plan). 30"h wall cabinet with doors when sink not included.
- M3A 34"h ADA compliant base unit with sink, plastic laminate counter top and backsplash. 18" h wall cabinet with doors
- M4 30" high base cabinet unit with plastic laminate counter/backsplash, pencil grille at base and top. Half of cabinets to be open shelving (in center); other half to be lockable (at ends)
- M4A 30" high base cabinet unit with plastic laminate counter/backsplash, pencil grille at base and top. Vertical slots at 2" wide (clear) for art storage.
- M5 30"h ADA compliant base unit with sink, plastic laminate counter top and backsplash. 18" h wall cabinets with doors
- M6 24"d plastic laminate work surface with painted aluminum support brackets
- M6A 30"d plastic laminate work surface with painted aluminum support brackets
- M7 Tall cabinet with large drawers in the art classrooms
- M8 Plastic laminate adjustable shelving on heavy duty brackets and standards with vertical every 36", 4" high base, and plastic laminate cap
- M9 34" high base unit with doors and plastic laminate counter with 12"d x 12"w x 5" h mailbox open cubby units with label holders
- M10 Custom 30"h desk unit with 12" h deal shelf above. All counters solid surface with grommets for wire management. Drawer/door and file base units
- M11 Coat and backpack cubby units: 43" h x 30" d open storage unit with tiled bench below at 16" high (open boot storage below bench) and 2 rows of heavy duty coat hooks above; 4" h base. 25" high storage cabinets with doors above cubby units
- M13 Science laboratory casework: base cabinets with chemical resistant plastic laminate and epoxy countertop with 30" h wall cabinets above. Lab tables with epoxy counter tops and lockable casters are at windows to be offset from wall and to include backsplash with pencil grille and toe kick pencil grille to accommodate radiant heating.





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

ROOM DATA SHEETS

1. GENERAL CLASSROOM 4TH - 6TH



GENERAL CRITERIA

Description:

Typical classroom intended to support a variety of teaching methods for Grades 4-6. Provisions for a teacher and one instructional assistant

Area: 900SF

Quantity: (6) 4th Grade @ 900 SF; (6) 5th Grade @ 900 SF; (6) 6th Grade @ 900 SF

Users:

(1) Teacher (20-25) Students Instructional assistant as required

Adjacencies:

Communicating door(s) to adjacent classroom(s)

Adjacent classroom(s) when possible Common Room

- MILLWORK / CASEWORK M1 Teacher Wardrobe 4'wide teacher's wardrobe closet;
 - M2 Wall storage cabinet at Corridor wall
 - M3 Continuous countertop with base/upper cabinets
 - M3A 34"h ADA compliant base unit with sink, plastic laminate counter top and backsplash. 18" h wall cabinet with doors
- M4 Under-window shelving w/doors. ¹/₂ locked and ½ open shelves SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Interactive Display Whiteboard (front)
- (1) 8'-0" Magnetic white board (back)
- (2) 4'-0" Magnetic white boards (front)
- (2) 4'-0" Tack boards (back)

Window Treatments:

Woven fabric translucent roller shades





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

1. GENERAL CLASSROOM 4TH - 6TH

TECHNICAL CRITERIA

Finish Hardware:

- Main door
 - └→ Classroom Security Lock set
 - → Side lite
- Communicating door
 - → Passage Lockset

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: GWB; painted
- Ceiling: ACT

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between general classrooms and adjacent spaces: 50; STC 45 for corridor wall

Plumbing:

- (1) Accessible sink with hot/cold water and accessible integral drinking fountain.
- (1) Sink deep bowl for cleaning equipment

Mechanical:

- Air conditioning
- Individual Climate Control

Lighting:

- 8 ft. pendant mounted dimmable LED fixtures with (2) combination occupancy/ daylight sensors
- ON/OFF controls at the door and multiscene controls at the front of the classroom

Clinton Public Schools Clinton, MA

Electrical:

- General duplex receptacles
- GFCI receptacle at sink area
- Duplex receptacle for projector
- Quad receptacles for teacher workstation
- General duplex receptacle for charging cabinet
- 50% of general purpose power receptacles to turn off automatically when the school is unoccupied

Data / Communication:

- Hardwired data outlet (2 data ports) for projector
- Hardwired data outlet (2 data ports) for wireless access point
- Wall phone outlet (1 data port)
- Overhead speaker speech reinforcement system
- Hardwired voice/data outlets (2 data ports)
 for teacher workstation
- (1) Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (1) Emergency Call Switches
- (1) PA ceiling speaker

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (1) 75 candela audiovisual device



Page 10

100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

1. GENERAL CLASSROOM 4TH - 6TH

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- (1) Paper towel dispenser (at sink)
- (1) Soap dispenser (at sink)

Equipment/Technology included in FF&E contract:

Mobile Technology:

- (1) Teacher laptop
- (25) Student tablets
- (1) Mobile charging cart
- (1) Interactive Short Throw Projector

Equipment included GC Contract:

• (1) Overhead speech reinforcement speaker

Furniture included in FF&E contract:

- (1) Teacher desk and chair
- (1) Adjustable height table attachment for teacher desk
- (1) Aide chair
- (25) Flat top student desks with storage
- (25) Student chairs

OTHER INFORMATION

 Collaborative work areas will connect all classrooms in grade cluster

NOTES:





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

1. GENERAL CLASSROOM 4TH - 6TH

Review Comments:

Reviewed by:

Name, Title:

ROOM DATA SHEETS

LPA A

Date:



Clinton Public Schools Clinton, MA

100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

2. GENERAL CLASSROOM 7TH - 8TH



GENERAL CRITERIA

Description:

Typical classroom intended to support a variety of teaching methods for Grades 7th & 8th. Provisions for a teacher and one instructional assistant

Area: 900SF

Quantity: (3) Math @ 900 SF; (3) English Language Arts @ 900 SF; (3) Social Studies @ 900 SF

Users:

(1) Teacher(20-25) StudentsInstructional assistant as required

Adjacencies:

Communicating door(s) to adjacent classroom(s)

Adjacent classroom(s) when possible Common Room

MILLWORK / CASEWORK

- M1 Teacher Wardrobe 4'wide teacher's wardrobe closet;
- M2 Wall storage cabinet at Corridor wall
- M3 Continuous countertop with base/ upper cabinets
- M4 Under-window shelving w/doors. ¹/₂ locked and ¹/₂ open shelves

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Interactive Display Whiteboard
- (1) 8'-0" Magnetic white board (back)
- (2) 4'-0" Magnetic white boards (front)
- (2) 4'-0" Tack boards (back)

Window Treatments:

Woven fabric translucent roller shades





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

2. GENERAL CLASSROOM 7TH - 8TH

TECHNICAL CRITERIA

Finish Hardware:

- Main door:
 - └→ Classroom Security Lock set
- Communicating door:
 - → Passage Lockset

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: GWB; painted
- Ceiling: ACT

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between general classrooms and adjacent spaces: 50; STC 45 for corridor wall

Plumbing:

• N/A

Mechanical:

Air conditioning

Lighting:

- 8 ft. pendant mounted dimmable LED fixtures with (2) combination occupancy/ daylight sensors
- ON/OFF controls at the door and multiscene controls at the front of the classroom



Clinton Public Schools Clinton, MA

Electrical:

- General duplex receptacles
- GFCI receptacle at sink area
- receptacle for projector
- Quad receptacles for teacher workstation
- General duplex receptacle inside millwork for charging cabinet
- 50% of general purpose power receptacles that turn off automatically when the school is unoccupied

Data / Communication:

- Hardwired data outlet (2 data ports) for projector
- Hardwired data outlet (2 data ports) for wireless access point
- Wall phone outlet (1 data port)
- Overhead speaker speech reinforcement system
- Hardwired voice/data outlets (2 data ports)
 for teacher workstation
- Connection for speech reinforcement
 system
- Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (1) Emergency Call Switches
- (1) PA ceiling speaker

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (1) 75 candela audiovisual device



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100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

2. GENERAL CLASSROOM 7TH - 8TH

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

N/A

Equipment/Technology included in FF&E contract: Mobile Technology:

- (1) Teacher laptop
- (1) Mobile charging cart
- (1) Interactive Short Throw Projector

Equipment included GC Contract:

 (1) Overhead speech reinforcement speaker

Furniture included in FF&E contract:

- (1) Teacher desk and chair
- (1) Adjustable height table attachment for teacher desk
- (1) Aide chair
- (25) Flat top student desks with storage
- (25) Student chairs

OTHER INFORMATION

 Communicating doors between classrooms where possible

NOTES:

All 6 classroom spaces will be fit up the same; meant for flexibility





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

ROOM DATA SHEETS

2. GENERAL CLASSROOM 7TH - 8TH

Review Comments:

Reviewed by:

Name, Title:

Date:



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SCHEMATIC DESIGN

ROOM DATA SHEETS



GENERAL CRITERIA

Description:

Science Lab grades 7–8th with dedicated prep room for each science lab.

Area:

- (3) Grade 7-8 Science Labs @ 1440 SF
- (3) Adjacent prep rooms @ 200 SF
- (1) Central Chemical Storage room @ 150 SF

Users:

(1) Teacher(24) StudentsInst. Assistants as required

Adjacencies:

Clustered together with grade 7-8 STEM neighborhood

MILLWORK / CASEWORK

- M1 Teacher Wardrobe– prep room
- (1)Special chemical or flammable storage cabinets-Prep room and Chem Room
- M13 –Chemical resistant Laboratory casework: 36" base cabinets with epoxy tops , sinks and wall cabinets. All doors lockable.
- Accessible hand wash sink and lab sinks
- Perimeter lab stations and mobile lab tables.

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Magnetic white board
- (2) 4'-0" Magnetic white boards
- (2) 4'-0" Tack boards

Window Treatments:

Woven fabric translucent roller shades





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SCHEMATIC DESIGN

3. SCIENCE LAB & PREP

TECHNICAL CRITERIA

Finish Hardware:

- Main door:
- Communicating door:
- → Passage Lockset
- Prep room door:
 - → Storeroom Lockset; Keyed

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: GWB; painted
- Ceiling: ACT, suspended pipe frame for hanging experiments, min 10 lb Weights

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between general classrooms and adjacent spaces: 50; STC 45 for corridor wall

Plumbing:

- (5) 8" x12.5" x 6"d under-mount epoxy lab sinks (with hot and cold water) with two lab faucets with interchangeable nozzles and flush epoxy covers
- (1) Demonstration sink and (1) Accessible lab sink
- (1) Prep room sink (1) accessible handwash sink in
- classroom (with hot and cold water)
- (1) Emergency Eye-washing and shower
 (1) Diab Washer in prop room
- (1) Dish Washer in prep room
 (1) Excepts/refrigerator with it
- (1) Freezer/refrigerator with ice maker in Chemical Storage room
- (1) Freezer/refrigerator with ice maker in Prep room

Mechanical:

- Air conditioning
- Individual Climate Control

Lighting:

- 8 ft. pendant mounted dimmable LED fixtures with (2) combination occupancy/ daylight sensors
- ON/OFF controls at the door and multiscene controls at the front of the classroom

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Electrical:

- General duplex receptacles
- Each mobile table should have its own duplex outlet to use
- GFCI receptacle at sink area
- Duplex receptacle for projector
- Quad receptacles for teacher workstation

Data / Communication:

- Hardwired data outlet (2 data ports) for projector
- Hardwired data outlet (2 data ports) for wireless access point
- Wall phone outlet (1 data port)
- Overhead speaker speech reinforcement system
- Hardwired voice/data outlets (1 voice/2 data ports) for teacher workstation
- Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (1) Emergency Call Switches
- (1) PA ceiling speaker

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (2) 75 candela audiovisual device



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SCHEMATIC DESIGN

3. SCIENCE LAB & PREP

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- (1) Paper towel dispenser (each sink)
- (1) Soap dispenser (each sink)
- (1) First Aid Kit at each exit

Furniture included in FF&E contract:

- (1) Teacher desk and chair
- (24) Student chairs stools with backs
- (13) Lab Tables with Lockable Casters 2 students per desk
- (1) Glassware racks Prep room

OTHER INFORMATION

- Communicating doors between classrooms
 where possible
- Dedicated prep room for each science lab.
- Structure beams to be hung below the ceiling

Equipment/Technology included in FF&E con-

- tract (1)Document camera
 - (1) Microscope cart with (24 microscopes)
 - (1) Interactive Short-Throw projector
 - (12)Hot Plates
 - (12)Scales
 - (12) Microscopes
 - (12)Stirrer Plates
 - (2) Small Portable air compressors
 - Acid spill clean up station
 - Broken glass disposal container

Mobile Technology:

- (1) Teacher laptop
- (24) Student tablets

Equipment included GC Contract:

- (1) Overhead speech reinforcement speaker
- (1) Goggle cabinet/sterilizer unit per lab
- (1) Fire blanket and fire extinguisher cabinet(s)
- (1) Recessed fire extinguisher cabinet. -Prep room
- (1)Stacked Chemical storage cabinets for acids flammable and corrosion –Chemical storage/room
- (3) Chemical storage cabinets one per prep room
- (1) MSDS binder holder
- (1) Freezer/refrigerator with ice maker in Chemical Storage room
- (1) Freezer/refrigerator with ice maker in Prep room
- (1) Residential dishwasher-Prep Room
- (#) 12"d. x7'-0"h. X3'-0"w. Open shelves per unit. with chemical lip





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SCHEMATIC DESIGN

3. SCIENCE LAB & PREP

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:

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SCHEMATIC DESIGN

ROOM DATA SHEETS



GENERAL CRITERIA Description:

Hands on shop for building and testing projects. Supports PLTW Modeling and Design curriculum. Desire to limit distractions from corridor or other students.

Area: 1,440 SF

Users:

- (1) Teacher
- (20) Students

Instructional Assistants as required

Adjacencies:

- STEM labs
- Adjacent storage area with flexible shelving (approx. 400 SF)

MILLWORK / CASEWORK

- M1 Teacher Wardrobe
- M2 lockable tool cabinets/shelving
- M3 base/wall cabinet unit w/sinks
- Project display/storage within shop
- (30)Shoe box size cubbies for student project storage

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Magnetic White Board for short throw projector
- (1) 8'-0" Magnetic white board
- (2) 4'-0" Magnetic white boards
- (2) 4'-0" Tack boards

Window Treatments:

Woven fabric translucent shades





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SCHEMATIC DESIGN

4. INDUSTRIAL ARTS LAB

TECHNICAL CRITERIA

Finish Hardware:

- Main door:
 - → Classroom Security Lockset
- Communicating door:
- ⊢ Classroom Lockset
- Prep room door:
 - → Storeroom Lockset; Keyed
- separated from labs/classrooms

Architectural Finishes:

- Flooring epoxy or sealed concrete
- Base: Epoxy or 4" resilient vinyl
- Walls-Impact resistant GWB, Plywood or FRP
- Ceiling: ACT, suspended pipe frame for hanging experiments, min 10 lb Weights Weights
- Painted Exposed structure

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between general classrooms and adjacent spaces: 50; STC 45 for corridor wall

Plumbing:

- (1) Accessible sink
- (2) Deeper art sinks with solid interceptors
- (1) Safety Equipment eye wash/shower

Mechanical:

- Air conditioning
- Individual climate control
- Exhaust Identify special requirements (i.e. exhaust for 3D printers, dust collection, etc.)

Lignting:

- 8 ft. pendant mounted dimmable LED fixtures with (2) combination occupancy/ daylight sensors
- ON/OFF controls at the door and multiscene controls at the front of the classroom

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Electrical:

- General duplex receptacles
- GFCI receptacle at sink area
- Duplex receptacle for projector
- Quad receptacles for teacher workstation
- Ceiling power drops
- Power for CNC machine and desktop

Data / Communication:

- Hardwired data outlet (2 data ports) for projector
- Hardwired data outlet (2 data ports) for wireless access point
- Wall phone outlet (1 data port)
- Overhead speaker speech reinforcement system
- Hardwired voice/data outlets (1 voice/2 data ports) for teacher workstation
- Power/data for High powered desktop computer for CNC machine.
- Power for Goggle cabinet
- Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (2) Emergency Call Switches
- (1) PA ceiling speaker

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (2) 75 candela audiovisual device
- Fire extinguisher and blanket


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SCHEMATIC DESIGN

4. INDUSTRIAL ARTS LAB

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- (1) Paper towel dispenser (at sinks)
- (1) Soap dispenser (at sink)
- (1) First Aid Kit
- Peg board tool storage

Furniture included in FF&E contract:

- (1) Teacher desk and chair
- (20) Stools with backs
- (5) Sturdy work benches on lockable casters, removable clamps/vices & lockers below the tables for project storage
- (#) Adjustable metal shelves in storage room
- (5) Rolling lockable carts
- (3) Tool storage cabinets within shop

OTHER INFORMATION

Equipment/Technology included in FF&E con-

- tract: (1) High powered desktop computer for CNC machine
 - (2) Drill Presses
 - (2) Table Top band saws
 - (12) Small saws, sanders, files
 - (1) Interactive short-throw projector
 - (#) Hand tools saws and sanders
 - (10) Table vices
 - (1) Portable dust -collection system
 - CNC router

Mobile Technology:

- (1) Teacher laptop
- (20) Student tablets
- (1) Mobile Charging cart

Equipment included GC Contract:

- (1) Overhead speech reinforcement speaker
- (1) Goggle Cabinet

NOTES:

Locked storage cabinets to control access to certain tools.





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SCHEMATIC DESIGN

ROOM DATA SHEETS

4. INDUSTRIAL ARTS LAB

Review Comments:

Reviewed by:

Name, Title:

Date:





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SCHEMATIC DESIGN

ROOM DATA SHEETS



Description: Technology rich lab for robotics and computer

Programming. Supports PLTW Automation & Robotics curriculum. Presentation space for 3D presentations

Area: 1,440 SF Quantity: (1)

Users:

(1) Teacher(20) StudentsInstructional Assistants as reqd.

Adjacencies:

Adjacent to Life Science Lab with shared prep room

- M2 Storage cabinets
- M5 accessible base/wall cabinet unit w/sink
- Display to the corridor-visible to other students
- Storage for raw materials
- (20) storage cubbies for robots in progress. 1' wide x 2' tall cubbies with doors, accessible from the classroom

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Interactive white board
- (1) 8'-0" Magnetic white board
- (2) 4'-0" Magnetic white board
- (2) 4'-0" Tack boards

Window Treatments:

Woven fabric translucent roller shades





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SCHEMATIC DESIGN

5. COMPUTER SCIENCE

TECHNICAL CRITERIA

Finish Hardware:

- Main door:
- Communicating door:
- Prep room door:

 - separated from labs/classrooms
- Architectural Finishes:
 - Floor: Linoleum
 - Base: 4" resilient vinyl
 - Walls: GWB; paintedCeiling: ACT

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between general classrooms and adjacent spaces: 50; STC 45 for corridor wall

Plumbing:

• (1) Emergency eye wash/shower

Mechanical:

- Air conditioning
- Individual climate control

Lighting:

- 8 ft. pendant mounted dimmable LED fixtures with (2) combination occupancy/ daylight sensors
- ON/OFF controls at the door and multiscene controls at the front of the classroom

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Electrical:

- General duplex receptacles
- GFCI receptacle at sink area
- Duplex receptacle for projector
- Quad receptacles for teacher workstation
- The 3D printer connections
- General duplex receptacle inside millwork for charging cabinet
- Ceiling power drops

Data / Communication:

- Hardwired data outlet (2 data ports) for projector
- Hardwired data outlet (2 data ports) for wireless access point
- Wall phone outlet (1 data port) and (1) VoIP telephone handset
- Overhead speaker speech reinforcement system
- Hardwired voice/data outlets (1 voice/2 data ports) for teacher workstation
- Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (2) Emergency Call Switches
- (1) PA ceiling speaker

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (1) 110cd speaker-strobe
- (1) 75 candela audiovisual device
- (1) Fire extinguisher with blanket



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SCHEMATIC DESIGN

5. COMPUTER SCIENCE

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- (1) Paper towel dispenser (at sink)
- (1) Soap dispenser (at sink)

Furniture included in FF&E contract:

- (1) Teacher desk and chair
- (6) workshop style tables with integral power and storage
- (20) Student stools with backs
- (3–4) rolling storage lockers carts with bins for small robotics pieces
- (5) Durable table to seat 4
- (3) computer stations with chairs

OTHER INFORMATION

Equipment/Technology included in FF&E contract:

- (3) 3D printers (of varied sophistication) with clean print enclosures with filters
- (3) high-powered desktop computers
- VEX arena (12'x12')could be located in the common area/corridor
- (2) Interactive Short Throw Projector Mobile Technology:
 - (1) Teacher laptop
 - (20) Student tablets
 - (1) Mobil Charging cart

Equipment included GC Contract:

- (1) Overhead speech reinforcement speaker
- (1) Goggle cabinets/sterilizer unit per lab
- (1) Fire blanket and fire extinguisher cabinet(s)
- (1) Recessed fire extinguisher cabinet. Prep room
- (1) MSDS binder holder
- (2) Freezer/refrigerator in Prep room
- (1) Ice Maker in Prep room
- 12"d. x7'-0"h. X3'-0"w. Open shelves per unit. with chemical lip
- (1)Stacked Chemical storage cabinets for acids flammable and corrosion –Chemical storage/ room
- (1) Chemical storage cabinets one per prep room

NOTES:

3D printer enclosure or ventilation to be determined.





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SCHEMATIC DESIGN

5. COMPUTER SCIENCE

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:





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SCHEMATIC DESIGN



GENERAL CRITERIA

Description:

STEM lab to support Project Lead the Way Medical Detectives curriculum, which includes dissections and hands on science experiments. Requires a typical science lab layout with an adjacent prep room.

Area: 1,440 SF

Users:

(1) Teacher(24) StudentsInstructional assistants as required

Adjacencies:

-Robotics Lab, with shared prep room

MILLWORK / CASEWORK

- M1 Teacher Wardrobe
- Epoxy countertop
- (1) Special chemical or flammable storage cabinets Chem Room
- M13 –Chemical resistant Laboratory casework: 36" base cabinets with epoxy tops, sinks and wall cabinets. All doors lockable.
- Accessible hand wash sink and lab sink
- Perimeter lab stations and mobile lab tables.

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Magnetic whiteboard for projector
- (2) 4'-0" Magnetic white boards
- (2) 4'-0" Tack boards

Window Treatments: Woven fabric translucent roller shades





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SCHEMATIC DESIGN

6. LIFE SCIENCE LAB

TECHNICAL CRITERIA

Finish Hardware:

- Main door:
- Communicating door:
- Prep room door:
 - Storeroom Lockset; Keyed separated from labs/classrooms

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: GWB; painted
- Ceiling: exposed structure

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between general classrooms and adjacent spaces: 50; STC 45 for corridor wall

Plumbing:

- (5) 8" x12.5" x 6"d under-mount epoxy lab sinks (with hot and cold water) with two lab faucets with interchangeable nozzles and flush epoxy covers
- (1) Demonstration sink and (1) Accessible lab sink
- (1) Prep room sink (1) accessible handwash sink in classroom (with hot and cold water)
- (1)Emergency eye wash/shower
- (1)Deep sink in prep room
- (1)Refrigerator ice maker in prep room

Mechanical:

- Air conditioning
- Individual Climate Control
- Increased exhaust ventilations due to dissections

Lighting:

- 8 ft. pendant mounted dimmable LED fixtures with (2) combination occupancy/daylight sensors
- ON/OFF controls at the door and multi-scene controls at the front of the classroom

Electrical:

- General duplex receptacles
- GFCI receptacle at perimeter lab stations / sink area
- Quad receptacle for projector
- Quad receptacles for teacher workstation
- Overhead power drops

Data / Communication:

- Hardwired data outlet (2 data ports) for projector
- Hardwired data outlet (2 data ports) for wireless access point
- Wall phone outlet (1 data port)
- Overhead speaker speech reinforcement system
- Hardwired voice/data outlets (2 data ports)
 for teacher workstation
- (1) Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (1) Emergency Call Switches
- (1) PA ceiling speaker

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (2) 75 candela audiovisual device
- Fire extinguisher with blanket



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SCHEMATIC DESIGN

6. LIFE SCIENCE LAB

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- (1) Paper towel dispenser (at sinks)
- (1) Soap dispenser (at sinks)

ROOM DATA SHEETS

Equipment/Technology included in FF&E con-

- tract: (2) Residential Refrigerator/Freezer
 - (1) Ice maker
 - Dishwasher
 - (1) Technology cart
 - (1) Interactive Short Throw Projector

Mobile Technology:

- (1) Teacher laptop
- (24) Student Chrome-books

Equipment included GC Contract:

- (1) Overhead speech reinforcement speaker
- (1) Goggle cabinets/sterilizer unit per lab

Furniture included in FF&E contract:

- (1) Teacher desk and chair
- (24) Student stools with backs
- (1) (100) "mail slots" would provide one per student. Label each shelf for students-standard size notebook, 9x12
- (8) Lab Tables with Lockable Casters 2 students per desk

OTHER INFORMATION

NOTES:

For Prep room refer to computer science





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SCHEMATIC DESIGN

6. LIFE SCIENCE LAB

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:

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SCHEMATIC DESIGN

7. TLC CLASSROOM



GENERAL CRITERIA

Description:

There will be two SPED TLC classrooms, one associated with grades 4th to 6th, ad one associated with Grades 7&8. This substantially separate classroom provides academic instruction and support for students with social/emotional disabilities.

(2) 900 SF classroom (2)Adjacent dedicated toilet room Quantity: 4 Users:

(8–12) Students

- (1) Teacher
- (2-3) Instructional assistants

Adjacencies:

Adjacency to general education classroom

MILLWORK / CASEWORK

- M1 Teacher Wardrobe
- M2 Storage Cabinet
- M3 Base/wall cabinet
- M3A Accessible base/wall cabinet unit w/ sink
- M4 Under–window shelving, all open
- M11 (12) Student cubbies (at Grade 4–6 TLC classroom)

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Interactive Display Board
- (1) 8'-0" Magnetic white board
- (4) 4'-0" Magnetic white boards
- (1) 4'-0" Tack board

Window Treatments:

Woven fabric translucent roller shades





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SCHEMATIC DESIGN

7. TLC CLASSROOM

TECHNICAL CRITERIA

Finish Hardware:

- Main door:
 - \mapsto Classroom Security Lockset
 - → Side lite
- Communicating door:
 - → Passage Lockset

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: GWB; painted
- Ceiling: ACT

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between Self Contained SPED and adjacent spaces: 50; STC 45 for corridor wall

Plumbing:

- (1) Accessible sink with hot/cold water and integral drinking fountain (at 4–6 Grade TLC)
- (1) Deep sink

Mechanical:

- Air conditioning
- Individual Climate Control

Lighting:

- 8 ft. pendant mounted dimmable LED fixtures with (2) combination occupancy/ daylight sensors
- ON/OFF controls at the door and multiscene controls at the front of the classroom

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Electrical:

- General duplex receptacles
- GFCI receptacle at counter sink area; (2) duplex receptacles at counters
- Duplex receptacle for projector
- Quad receptacles for teacher workstation
- General duplex receptacle for technology charging cart
- Single outlet for speech reinforcement amplifier

Data / Communication:

- Hardwired data outlet (2 data ports) for projector
- Hardwired data outlet (2 data ports) for wireless access point
- Wall phone outlet (1 data port)
- Overhead speaker speech reinforcement system
- Hardwired voice/data outlets (2 data ports)
 for teacher workstation
- (1) Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (1) Emergency Call Switches
- (1) PA ceiling speaker

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (1) 75 candela audiovisual device



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SCHEMATIC DESIGN

7. TLC CLASSROOM

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- (2) Paper towel dispensers (at each sink area)
- (2) Soap dispensers (at each sink area)
- (2) Free standing waste receptacle(s)
- Wall mats in calm down room

Equipment/Technology included in FF&E con-

- tract: (1) Technology charging cart
 - (1)Document Camera
 - (1) Interactive Short Throw Projector

Mobile Technology:

- (12) Student Chrome-books
- (1) Teacher laptop
- (1) Mobil Charging cart

Equipment Included in GC Contract:

• (1) Overhead speech reinforcement speaker

Furniture included in FF&E contract:

- (1) Teacher desk and chair
- (2) Wheeled chairs
- (12) Student chairs
- (6) Student desks
- (6) alternative seating options (bean bags, study carrels etc)
- (2-4) group work tables
- (2) Mobile partitions

OTHER INFORMATION

Communicating doors to adjacent classrooms

NOTES:





ROOM DATA SHEETS

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SCHEMATIC DESIGN

7. TLC CLASSROOM

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:



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SCHEMATIC DESIGN

8. ABA CLASSROOM



GENERAL CRITERIA

Description:

There will be one ABA SPED classroom. These spaces provide separate but adjacent classrooms in cases where students with special needs require a separate setting for instruction. Applied Behavior Analysis (ABA) is education and support for students who are typically on the Autism spectrum. Associated with grades 4–6.

Area: 900SF (1 Adjacent BCBA office @ 150 SF) Quantity: 1 Users:

- (8–12) Students
- (1) Teacher
- (2-3) Instructional assistants

Adjacencies:

- Adjacency to general education classrooms
- Adjacent calm down area directly visible from the classroom
- Bean bags & Mats on walls

MILLWORK / CASEWORK

- M1 Teacher Wardrobe
- M2–Storage cabinet
- M3– Continuous countertop with base/ upper cabinets at corridor wall
- M4 Under–window shelving
- M5 accessible cabinet unit w/sink
- M11 (12) student storage cubbies

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Projector White Board
- (1) 8'-0" Magnetic white board
- (3) 4'-0" Magnetic white boards
- (1) 4'-0" Tack board

Window Treatments:

Woven fabric translucent roller shades







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SCHEMATIC DESIGN

8. ABA CLASSROOM

TECHNICAL CRITERIA

Finish Hardware:

- Main door:
 - └→ Classroom Security Lockset
 - → Side lite
- Communicating door:
 - → Passage Lockset

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: GWB; painted
- Ceiling: ACT

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between Self Contained SPED and adjacent spaces: 50; STC 45 for corridor wall

Plumbing:

- (1) Accessible sink with hot/cold water and integral drinking fountain
- Deep sink with solids interceptor (same as typical 4–6 classroom)

Mechanical:

- Air conditioning
- Individual Climate Control

Lighting:

- 8 ft. pendant mounted dimmable LED fixtures with (2) combination occupancy/ daylight sensors
- ON/OFF controls at the door and multiscene controls at the front of the classroom



Electrical:

- General duplex receptacles
- GFCI receptacle at counter sink area; (2) duplex receptacles at counters
- Duplex receptacle for projector
- Quad receptacles for teacher workstationGeneral duplex receptacle inside millwork for
- General duplex receptacle inside milliwork for charging cabinet
- Single outlet for speech reinforcement amplifier

Data / Communication:

- Hardwired data outlet (2 data ports) for projector
- Hardwired data outlet (2 data ports) for wireless access point
- Wall phone outlet (1 data port)
- Overhead speaker speech reinforcement system
- Hardwired voice/data outlets (2 data ports)
 for teacher workstation
- (1) Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (1) Emergency Call Switches
- (1) PA ceiling speaker

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (1) 75 candela audiovisual device



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SCHEMATIC DESIGN

8. ABA CLASSROOM

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- (2) Paper towel dispensers (at each sink area)
- (2) Soap dispensers (at each sink area)
- (2) Free standing waste receptacle(s)
- Wall mats in calm down room

Furniture included in FF&E contract:

- (1) Teacher desk and chair
- (2) Wheeled chairs for aides
- (12) Student chairs
- (2) Group work tables with
- (6) Student desks
- Alternative seating such as bean bags, study carrels etc.
- (2) Mobile partitions
- (1) Desk, task chair for ABA office
- (2) Guest chairs
- (1) Cabinet and (1) bookshelf

OTHER INFORMATION

 Communicating doors to adjacent classrooms

NOTES:

ROOM DATA SHEETS

Equipment/Technology included in FF&E con-

- tract: (1)Document camera
 - (1) Short throw interactive projector

Mobile Technology:

- (12) Student Chrome books
- (1) teacher laptop
- (1) Mobil Charging cart
- •

Equipment Included in GC Contract:

• (1) Overhead speech reinforcement speaker





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

8. ABA CLASSROOM

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:





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SCHEMATIC DESIGN

9. LIFE SKILLS CLASSROOM



GENERAL CRITERIA

Description:

There will be one self-contained SPED – Life Skills room. These spaces provide separate but adjacent classrooms in cases where students with special needs require at separate setting for instruction. This curriculum focus includes teaching students Life skills. This is located in the 7–8th grade Neighborhood at grade level.

Area: 900 SF Quantity: 1 Users:

(8–12) Students

- (1) Teacher
- (2-3) Instructional assistants

Adjacencies:

- Adjacency to general education classrooms
- Adjacency to Adult Daily Living

MILLWORK / CASEWORK

- M1 Teacher Wardrobe
- M2 Storage cabinet
- M4 Under-window shelving,
- M3- Typical wall/base cabinets
- M3A accessible base/wall cabinet unit w/ sink
- M11 Storage cubbies in classroom and toilet room

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Interactive Display Whiteboard
- (3) 4'-0" Magnetic white boards
- (1) 4'-0" Tack board

Window Treatments:

Woven fabric translucent roller shades



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SCHEMATIC DESIGN

9. LIFE SKILLS CLASSROOM

TECHNICAL CRITERIA

Finish Hardware: Main door:

- → Classroom Lockset
- Communicating door:
 - → Classroom Security Lockset
- Prep room door:
 - → Classroom Security Lockset; Keyed separated from/ classrooms

Architectural Finishes:

- Floor: Linoleum
 - Base: 4" resilient vinyl
 - Walls: GWB; painted
 - Ceiling: ACT

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between Self Contained SPED and adjacent spaces: 50; STC 45 for corridor wall

Plumbing:

- Accessible sink in classroom with tempering/ mixing valve and drinking fountain
- Adjacent toilet rooms in interstitial space

Mechanical:

- Air conditioning
- Individual Climate Control

Lighting:

- 8 ft. pendant mounted dimmable LED fixtures with (2) combination occupancy/ daylight sensors
- ON/OFF controls at the door and multiscene controls at the front of the classroom

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Electrical:

- General duplex receptacles
- GFCI receptacle at counter sink area; (2) duplex receptacles at counters
- Receptacle for projector
- Receptacles for teacher workstation
- General duplex receptacle inside millwork
 for charging cabinet
- Single outlet for speech reinforcement
 amplifier

Data / Communication:

- Hardwired data outlet (2 data ports) for projector
- Hardwired data outlet (2 data ports) for wireless access point
- Wall phone outlet (1 data port)
- Overhead speaker speech reinforcement system
- Hardwired voice/data outlets (1 voice/2 data ports) for teacher workstation
- Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (1) Emergency Call Switches
- (1) PA ceiling speaker

Fire Protection / Fire Alarm:

- Light–Hazard Sprinkler Coverage
- (1) 75 candela audiovisual device



100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

9. LIFE SKILLS CLASSROOM

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- (4) Paper towel dispensers (at each sink area)
- (2) Toilet paper dispenser
- (4) Soap dispensers (at each sink area)
- (2) Free standing waste receptacle(s)

Furniture included in FF&E contract:

- (1) Teacher desk and chair
- (1) Adjustable height table attachment for teacher desk
- (2) Wheeled chairs for aides
- (2) study carrels
- (12) Student chairs
- (1) Hoyer Lift
- (2) Group work tables with (2) chairs ea.
- (2) Mobile partitions

OTHER INFORMATION

NOTES:

ROOM DATA SHEETS

Equipment/Technology included in FF&E contract:

tract: Document Camera

• (1) Interactive short-throw projector

Mobile Technology:

- (12) Student chrome-books
- (1) Teacher laptop
- (1) Mobil Charging cart

Equipment Included in GC Contract:

• (1) Overhead speech reinforcement speaker





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

ROOM DATA SHEETS

9. LIFE SKILLS CLASSROOM

Review Comments:

Reviewed by:

Name, Title:

Date:





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN





GENERAL CRITERIA

Description:

The Adult Daily Living (ADL) Classroom would provide an area to support students in the Life Skills class that would teach skills for dayto-day living. This area would need to provide model areas where students can learn such skills as using a washer/dryer, dishwasher, stovetop, oven, and other household appliances, as well as basic work skills. Ideally, the Special Education students would use the ADL to serve the MS teachers as "customers". This would allow the life skills students to learn how to fill an order and operate a cash register and practice customer service and social interactions.

The ADL would provide workstations to teach skills needed for working with cash registers, and learning skills such as cooking, sorting, folding, labeling, and packing items to be sold in the Café. The ADL classroom would also be used to teach day-to-day life skills such as hygiene and nutrition to special education students not in the Life Skills program

Area: 450 SF Toilet room 120 SF, toilet room and 60 SF

Quantity: 4 Users:

- (8–12) Students
- (1) Teacher
- (1-2) Instructional assistants

Adjacencies:

• Adjacency Life Skills and to dedicated toilet



Clinton Public Schools Clinton, MA

MILLWORK / CASEWORK

- M4 Under-window shelving
- M3 Accessible base/wall cabinet unit w/ sink and stove top

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Interactive Display whiteboard
- (2) 4'-0" Magnetic white boards
- (1) 4'-0" Tack board

Window Treatments:

Woven fabric translucent roller shades



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SCHEMATIC DESIGN

10. ADULT DAILY LIVING

TECHNICAL CRITERIA

Finish Hardware:

- Main door:
- Communicating door:
 - → Passage set

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: GWB; painted
- Ceiling: ACT

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between Self Contained SPED and adjacent spaces: 50; STC 45 for corridor wall

Plumbing:

- (1) Accessible kitchen sink
- (1) Refridgerator with Ice Maker
- (1)Dishwasher
- (1) Washing machine (clothes)

Mechanical:

- Air conditioning
- Individual Climate Control

Lighting:

- 8 ft. pendant mounted dimmable LED fixtures with (2) combination occupancy/ daylight sensors
- ON/OFF controls at the door and multiscene controls at the front of the classroom

Clinton Public Schools Clinton, MA

ROOM DATA SHEETS

Electrical:

- General duplex receptacles
- GFCI receptacle at counter sink area; (2) duplex receptacles at counters
- Receptacle for projector
- Receptacles for teacher workstation
- General duplex receptacle inside millwork for charging cabinet
- Single outlet for speech reinforcement amplifier
- Power receptacles for washer, dryer, oven, and microwave. The clothes dryer typically requires a special outlet.

Data/ Communication

- · Hardwired data outlet (2 data ports) for projector
- Hardwired data outlet (2 data ports) for wireless access point
- Wall phone outlet (1 data port)
- Overhead speaker speech reinforcement system
- Hardwired voice/data outlets (2 data ports) for teacher workstation
- Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (1) Emergency Call Switches
- (1) PA ceiling speaker

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (1) 75 candela audiovisual device



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SCHEMATIC DESIGN

10. ADULT DAILY LIVING

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- (2) Paper towel dispensers (at each sink area)
- (2) Soap dispensers (at each sink area)
- (2) Free standing waste receptacle(s)

Equipment/Technology included in FF&E con-

tract: (1) Technology cart

• (1) Interactive Short – Throw Projector

Mobile Technology:

- (12) Student chrome-books
- (1) Teacher laptop

Equipment Included in GC Contract:

- Overhead speech reinforcement speaker
- Refrigerator with ice maker
- Dishwasher
- Microwave
- Accessible wall oven
- Accessible electric cook top
- Clothes dryer
- Clothes washer

- Furniture included in FF&E contract:
 - (1) Teacher desk and chair
 - (12) Student chairs
 - (1) Cafe Traveling coffee cart
 - (1) Cot
 - (1) laundry folding table
 - (2) Group work tables with (6) chairs each
 - (1) Hoyer lift in larger restroom

OTHER INFORMATION

Communicating doors to adjacent classrooms

NOTES:





ROOM DATA SHEETS

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SCHEMATIC DESIGN

10. ADULT DAILY LIVING

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:





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SCHEMATIC DESIGN

11. OT/PT



GENERAL CRITERIA

Description:

Special Education space to teach students manual and physical dexterity. Students rotate into this space during the day. The primary OT/PT room closer to the gym may be larger than the other due to greater need to support co-treatment services, which may require additional staff and space.

MILLWORK / CASEWORK

- M2–Storage Cabinets with adj. shelving
- M3A–Accessible sink cabinet
- M4 (30" deep) Under-window/low open shelving

Area: 900 SF

Quantity:1 Users: (1-2) OT/PT staff (1-2) Students typical

Adjacencies:

- Close to Gym, Nurse
- Adjacent to OT/PT office

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Magnetic white board
- (4) 4'-0" Magnetic white boards
- (1) 4'-0" Tack boards

Window Treatments:

Woven fabric translucent roller shades Miscellaneous: N/A





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SCHEMATIC DESIGN

11. OT/PT

TECHNICAL CRITERIA

Finish Hardware:

- Main door:
 - └→ Classroom Security Lockset
 - → Side lite
- Communicating door:
 - → Passage lockset

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: Abuse resistant GWB (painted), Secure wall pads
- Ceiling: ACT

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between OT/PT and adjacent spaces: 50; between OT/PT and corridor: 45;

Plumbing:

• (1) Accessible sink with hot/cold water and integral drinking fountain at child height.

Mechanical:

- Air conditioning
- Individual Climate Control

Lighting:

- 8 ft. recessed dimmable controlled LED fixtures with (2) combination occupancy/ daylight sensors
- ON/OFF controls at the door and multiscene controls at the front of the classroom

Clinton Public Schools Clinton, MA

Electrical:

- General duplex receptacles
- Quad receptacle for teacher workstation
- Duplex receptacle for projector

Data / Communication:

- Wall phone outlet (1 data port)
- Hardwired data outlet (2 data ports) for wireless access point
- Hardwired data outlet (2 data ports) for projector
- Overhead speaker speech reinforcement system
- Hardwired voice/data outlets (2 data ports)
 for teacher workstation
- Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (2) Emergency Call Switches
- (1) PA speakers

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (1) 75 candela audiovisual device



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SCHEMATIC DESIGN

11. OT/PT

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- (1) Paper towel dispenser (at sink area)
- (1) Soap dispenser (at sink area)
- (1) Therapeutic swing hung from ceiling structure

Fixtures included in GC Contract:

Wall mounted mirror

Equipment/Technology included in FF&E contract:

- Manipulatives
- Floor mats
- (2) Scooters/bikes
- (1) Hoyer Lift

Mobile Technology:

• (2) Teacher laptops

Equipment Included in GC Contract:

Furniture included in FF&E contract:

- (1) Teacher desk and chair
- (1) Adjustable height table attachment for teacher desk
- (1) Aide chair
- (1) Wall mounted Mirrors
- (2) Group tables w/ 4–6 chairs
- (2) Locking Files Cabinets
- (1) OT/PT desk
- (2) Guest Chairs
- (1) Bookshelf
- (1) Swing and swing equipment

OTHER INFORMATION

NOTES:

Need full list of desired OT/PT equipment





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SCHEMATIC DESIGN

11. OT/PT

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:

Cli



100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

ROOM DATA SHEETS





GENERAL CRITERIA Description:

Special Education space to teach students manual and physical dexterity. Students rotate into this space during the day. The primary OT/PT room closer to the gym may be larger than the other due to greater need to support co-treatment services, which may require additional staff and space.

Area: 300 SF (2)100 SF 4-6th grade (1)100 SF 7-8th grade Quantity: 3 Users: one student Adjacencies: • SPED TLC or ABA Classroom

MILLWORK / CASEWORK

• N/A

SPECIALTIES

N/A





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SCHEMATIC DESIGN

12. CALMING

TECHNICAL CRITERIA

Finish Hardware: N/A

Electrical:

- General duplex receptacles
- Quad receptacle for teacher workstation
- Quad receptacle for projector

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: Abuse resistant GWB (painted), Secure wall pads
- Ceiling: ACT

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between OT/PT and adjacent spaces: 50; between OT/PT and corridor: 45;

Plumbing: • N/A

Mechanical:

Air conditioning

Public Address / Clock:

Data / Communication:

- (1) Digital Clock and display screen
- (1) Emergency Call Switches
- (1) Talk back speaker

Fire Protection / Fire Alarm:

- Light–Hazard Sprinkler Coverage
- (1) 110cd speaker-strobe
- (1) 75 candela audiovisual device



- 8 ft. recessed dimmable controlled LED fixtures with (2) combination occupancy/ daylight sensors
- ON/OFF controls at the door and multiscene controls at the front of the classroom



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ROOM DATA SHEETS

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SCHEMATIC DESIGN

ROOM DATA SHEETS

12. CALMING

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

Wall pads

Equipment/Technology included in FF&E contract: Washable floor mats

Furniture included in FF&E contract:

Bean bags

OTHER INFORMATION

• N/A

NOTES:





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SCHEMATIC DESIGN

12. CALMING

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:

Cli



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SCHEMATIC DESIGN

ROOM DATA SHEETS

13. SPED LIAISON CLASSROOM



GENERAL CRITERIA

Description:

Classroom space for pull out instruction for a grade level special education teacher / liaison.

M1 – Teacher wardrobe

- M2 Teacher storage
- M3A Accessible sink base cabinet
- M3 Base and upper cabinets

Area: 900 SF Quantity: 5 Users:

- (12-20) Students
- (1) Teacher Staff
- (1-2) Instructional Assistants

Adjacencies:

- Each grade level neighborhood
- Adjacency to general education classrooms

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Interactive Display Board
- (1) 8'-0" Magnetic white board
- (3) 4'-0" Magnetic white boards
- (1) 4'-0" Tack board

Window Treatments:

Woven fabric translucent roller shades





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SCHEMATIC DESIGN

13. SPED LIAISON CLASSROOM

TECHNICAL CRITERIA

Finish Hardware:

- Main door
 - → Classroom Security Lock set
 - → Side lite
- Communicating door
 - → Passage Lockset

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: Abuse resistant GWB (painted), Secure wall pads
- · Ceiling: ACT w/ ability to hang swing in one section

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between OT/PT and adjacent spaces: 50; between OT/PT and corridor: 45;

Plumbing:

- (1) Accessible sink with hot/cold water and integral drinking fountain at child height.
- (1) Non-accessible sink with hot/cold water

Mechanical:

- Air conditioning
- Individual Climate Control

Lighting:

- 8 ft. recessed dimmable controlled LED fixtures with (2) combination occupancy/ daylight sensors
- ON/OFF controls at the door and multi– scene controls at the front of the classroom

Electrical:

- General duplex receptacles
- Quad receptacle for teacher workstation
- Duplex receptacle for projector

Data / Communication:

- Wall phone outlet (1 data port)
- Hardwired data outlet (2 data ports) for wireless access point
- Hardwired data outlet (2 data ports) for projector
- Overhead speaker speech reinforcement system
- Hardwired voice/data outlets (2 data ports) for teacher workstation
- Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital clock and display screen
- (1) Emergency Call Switches
- (1) PA Speakers

Fire Protection / Fire Alarm:

- Light–Hazard Sprinkler Coverage
- (1) 75 candela audiovisual device


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SCHEMATIC DESIGN

13. SPED LIAISON CLASSROOM

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

N/A

Equipment/Technology included in FF&E con-

tract: Document camera

• (1) Interactive Short – Throw Projector

Equipment Included in GC Contract:

- (1) Overhead speech reinforcement speaker
- (1) Mobile Charging cart

Furniture included in FF&E contract:

- (1) Teacher desk and chair
- (1) Adjustable height table attachment for teacher desk
- (1) Aide chair
- (20) Flat top student desks with storage
- (20) Student chairs

OTHER INFORMATION

NOTES:





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SCHEMATIC DESIGN

ROOM DATA SHEETS

13. SPED LIAISON CLASSROOM

Review Comments:

Reviewed by:

Name, Title:

Date:





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SCHEMATIC DESIGN

ROOM DATA SHEETS

14. SMALL GROUP/ RESOURCES / SPEECH/ ELL



Classroom space for pull out instruction for all grade levels for resource, Speech, small group, and ELL these space are meant to be flexible base on need.

Area: 450SF Quantity: 12

Users:

(1) Speech Pathologist Teachers (6-8) Students Aides as required

Adjacencies:

- Adjacent with visibility to the common room for supervision where practical
- Dispersed among classrooms

- M1 (1) Teacher wardrobes
- M4 Lockable under-windows
- M5 Low base/wall cabinet unit w/ sink
- M6 30" High counter base cabinets with a counter. (Desired, for more storage between wardrobes)

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Interactive Display Whiteboard
- (2) 4'-0" Magnetic white boards
- (1) 4'-0" Tack board

Window Treatments: Woven fabric translucent roller shades





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SCHEMATIC DESIGN

14. SMALL GROUP/ RESOURCES / SPEECH/ ELL

TECHNICAL CRITERIA

Finish Hardware:

- Main door

 - → Side lite
- Communicating door
 - → Passage Lockset

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: GWB; painted
- Ceiling: ACT

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between self contained SPED and adjacent spaces: 50; STC 45 for corridor wall

Plumbing:

• (1) Accessible sink with hot/cold water and integral drinking fountain.

Mechanical:

- Air conditioning
- Individual Climate Control

Lighting:

- 8 ft. pendant mounted dimmable LED fixtures with (1) combination occupancy/ daylight sensors
- ON/OFF controls at the door and multiscene controls at the front of the classroom

Clinton Public Schools Clinton, MA

Electrical:

- General duplex receptacles
- Duplex receptacle for projector

Data / Communication:

- Hardwired data outlet (2 data ports) for wireless access point
- Hardwired data outlet (2 data ports) for projector
- Hardwired data outlet (2 data ports) for teacher work station
- Wall phone outlet (1 data port)
- Overhead speaker speech reinforcement system
- Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital clock and display screen
- (1) Emergency Call Switches
- (1) Talk back speaker

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (1) 75cd speaker-strobe



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SCHEMATIC DESIGN

14. SMALL GROUP/ RESOURCES / SPEECH/ ELL

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract: N/A

Equipment/Technology included in FF&E contract:

• (1) Interactive Short – Throw Projector Mobile Technology:

• (1) Mobile Charging cart

Equipment Included in GC Contract:

• (1) Overhead speech reinforcement speaker

Furniture included in FF&E contract:

- (1) Teacher desk and chair
- (1) Aide rolling chair
- (2) Group work tables 1 (modular) with (8) chairs
- (1) Technology cart/table
- (4) student desks and chairs. Smaller desk, or small table for individual work

OTHER INFORMATION

NOTES:

 Individual work and group work, rolling tables desks that can join up for group work





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SCHEMATIC DESIGN

ROOM DATA SHEETS

14. SMALL GROUP/ RESOURCES / SPEECH/ ELL

Review Comments:

Reviewed by:

Name, Title:

Date:





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SCHEMATIC DESIGN

ROOM DATA SHEETS



GENERAL CRITERIA

Description:

Flexible use space dedicated to each classroom cluster, for use in combining multiple classes, pullout instruction, and project-based learning.

Area: 750 SF each (6,315 SF of Common Space total)

Quantity: 3 Users:

1–2 Classrooms OR (20–48) Students (1–2) Teachers Aides as required

Adjacencies:

• Direct adjacency to classrooms in the associated classroom wing

MILLWORK / CASEWORK

• N/A

SPECIALTIES

Visual Display boards / accessories: (2) 8'-0" Magnetic white boards (2) 4'-0" Tack boards

Window Treatments: Woven translucent window shades





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SCHEMATIC DESIGN

15. COLLABORATIVE WORK

TECHNICAL CRITERIA

Finish Hardware:

N/A

Electrical:

General duplex receptacles

wireless access point

Receptacle for projector

Data / Communication:

Receptacle for motorized projection screen

• (1) Hardwired data outlet (2 data ports) for

 (1) Interactive Short-throw projector connections (2 Data Ports)

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: Ceramic tile (5' high); painted GWB above
- Ceiling: ACT /Painted Gypsum Board

Acoustical Requirements: • Sound Transmission Coefficient (STC) rating between general classrooms and adjacent spaces: 45

Plumbing:

N/A

Mechanical:

Air conditioning

Public Address / Clock:

- (1) Digital Clock and display screen
- (1) Emergency Call Switches
- (1) Talk back speaker

Fire Protection / Fire Alarm:

- Light–Hazard Sprinkler Coverage
- (1) 110cd speaker-strobe

- Lighting:
 - 4' Recessed linear LED fixtures with (3) combination occupancy/ daylight sensors
 - ON/OFF controls and multi-scene controls









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SCHEMATIC DESIGN

15. COLLABORATIVE WORK

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

• N/A

Equipment/Technology included in FF&E con-

tract: (1) Interactive Short – Throw Projector

Equipment included GC Contract:

• (1) Overhead speech reinforcement speaker

Furniture included in FF&E contract:

- (7–8) Movable group tables or flip and nest tables TBD
- Movable furniture types TBD
- (20-24) Student chairs TBD

OTHER INFORMATION

Keep space open

NOTES:





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SCHEMATIC DESIGN

15. COLLABORATIVE WORK

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:





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SCHEMATIC DESIGN

ROOM DATA SHEETS



GENERAL CRITERIA

Description:

The program does include air-dry clay as well as a variety of media throughout the year. The two art rooms are joined with a shared storage rooms and a kiln will be places in one storage room. MILLWORK / CASEWORK

- (1) M1 Teacher Wardrobe (lockable)
- (1) M2 Supply Cabinets (lockable)
- (1) M7 Art storage with 24" x 48" drawers
- M3 Base/wall cabinet unit w/sink (deeper sink) мза
- M4 30" deep Under-window shelving, combination open, slots, and doors

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Interactive Display whiteboard
- (1) 8'-0" Magnetic white board
- (2) 4'-0" Magnetic whiteboards
- (2) 4'-0" Tack boards

Window Treatments:

- Woven fabric roller shades
- Sun control devices for west facing windows



Area: 1,200 SF Art Room 150 SF Art Storage / Kiln Quantity: 2 Users:

(1) Teacher(24) Students per classroom

Adjacencies:

- Art Rooms are part of central/core spaces
- Art Rooms to be adjacent to each other



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SCHEMATIC DESIGN

16. ART CLASSROOM

TECHNICAL CRITERIA

Finish Hardware:

- Main door
 - → Classroom Security Lock set
 - → Side lite
- Communicating door
- → Passage Lockset

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: GWB; painted
- Ceiling: ACT
 Grid structure at ceiling with lights for
 project display

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between self contained SPED and adjacent spaces: 50; STC 45 for corridor wall

Plumbing:

- (1) Deep sink with solids interceptor and hot/cold water
- (1) Accessible art sink (student height) with hot/cold water, and solids interceptor

Mechanical:

- Individual climate control
- Air conditioning

Lighting:

- 8 ft. pendant mounted dimmable LED fixtures with (2) combination occupancy/ daylight sensors
- ON/OFF controls at the door(s)

Electrical:

- Counter duplex GFCI receptacles
- General duplex receptacles
- Receptacles for teacher workstation
- Duplex receptacle for projector
- Power for kiln

Data / Communication:

- Hardwired data outlet (2 data ports) for wireless access point
- Wall phone outlet (1 data port)
- Overhead speaker speech reinforcement system
- Hardwired voice/data outlet (2 data ports) for teacher workstation
- Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (2) Emergency Call Switches
- (1) PA ceiling speaker

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (1) 75 candela audiovisual device









100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

16. ART CLASSROOM

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- Paper towel dispensers
- Soap dispensers at all sinks

ROOM DATA SHEETS

Equipment/Technology included in FF&E contract:

- (1) Interactive Short Throw Projector Mobile Technology:
 - (1) Teacher laptop
 - (24) Student chrome-books
 - (1)Mobile Technology cart

Equipment included GC Contract:

- (1) Overhead speech reinforcement speaker
- Kiln

Furniture included in FF&E contract:

- (1) Teacher desk and chair per classroom
- (6) 4 Person Station Drawing Tables: 60" x 72" with locking casters (similar to science rooms) to move tables easily.
 (24) Student chairs
- (1) Drying cabinet in Art Storage (for airdry clay)
- Maximize flexible shelving in both art storage rooms

OTHER INFORMATION

Communicating doors between art rooms

NOTES:

 Top table systems to go up and down adjustable height. Or adjust height system? TBD





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

16. ART CLASSROOM

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:

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100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

17. ART STORAGE





GENERAL CRITERIA

Description:

Flexible and secure storages for Art Room supplies and student work. The storage areas will be shared between the two art classrooms and will include space for a kiln.

Area/Quantity: 1 @ 300 SF

Users:

SPECIALTIES

N/A

(1) Teacher(25) Students to have access

Adjacencies:

- Direct connection to Art classrooms
- Close proximity to Media Center

Window Treatments: N/A





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SCHEMATIC DESIGN

17. ART STORAGE

TECHNICAL CRITERIA

Finish Hardware:

- Main door:
 - → Storeroom Lockset
 - └→ Door closer
 - → Vision lite

Electrical:

• (4) General duplex receptacles

ROOM DATA SHEETS

Architectural Finishes:

Floor: Linoleum Base: 4" resilient vinyl Walls: GWB; painted Ceiling: ACT

Data / Communication:

Acoustical Requirements:

Sound Transmission Coefficient (STC) rating between general classrooms and adjacent spaces: 50

Plumbing:

Public Address / Clock:

Mechanical:

- Air conditioning
- Exhaust for kiln
- Individual climate control

Lighting:

- (4) 2'x2' Recessed LED fixtures
- ON/OFF controls at the door and multiscene controls at the front of the classroom

Fire Protection / Fire Alarm:

- Light–Hazard Sprinkler Coverage
- Ordinary–Hazard Sprinkler Coverage in Art Storage
- (1) Smoke detector





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

17. ART STORAGE

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

N/A

ROOM DATA SHEETS

Equipment/Technology included in FF&E contract:

Mobile Technology N/A

Equipment included in GC contract:

Furniture included in FF&E contract:

- (1-2) Mobile drying racks
- Maximize adjustable shelving racks
- Kiln in the storage room (smaller room)
- Paper Cutter (measures 21" W x 27" D
- Storage to hold 24" X 36" Paper
- (1) Drying cabinet/rack

OTHER INFORMATION

NOTES:

See specifications for selected kiln modelShared storage with doors to each art room





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SCHEMATIC DESIGN

17. ART STORAGE

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:

Clint



100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

18. MEDIA CENTER

ROOM DATA SHEETS



GENERAL CRITERIA Description:

As part of the "hub" of the school, the Media Center is the primary space for the STEM program and has an integral Maker Space. The Media Center will have print and digital collections and will support project-based learning experiences. The space will also accommodate large faculty meetings, community meetings, and gatherings.

Area: 2,965 SF Quantity: 1 Users:

(40 - 50/2 classes) Students at a time

- (50-75) Staff for meetings
- (1) Full-time Media Paraprofessional
- (1) Media Specialist (rotating)

Adjacencies:

- Direct access to at Maker Space
- Must be centrally located within school

MILLWORK / CASEWORK

- (1) M1 Teacher Wardrobe in office
- M3A Base/wall cabinets unit w/ accessible sink
- M10 Custom circulation desk for 2 adult work stations and book drop off.

SPECIALTIES

Visual Display boards / accessories:

- (1) Motorized ceiling mounted projector screen
- (1) Ceiling-mounted projector
- (2) 8'-0" Magnetic white boards for short throw projectors
- (3) 8'-0" Magnetic white boards
- (5) 8'-0" Magnetic white boards

Window Treatments:

- Woven fabric translucent roller shades
- Sun control devices for west facing windows





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SCHEMATIC DESIGN

18. MEDIA CENTER

TECHNICAL CRITERIA

Finish Hardware:

- Main door

 - → Side lite
- Communicating doors
 - → Passage Lockset

Architectural Finishes:

- Floor: Carpet tile
- Base: 4" resilient vinyl
- Walls: GWB, Metal panel
- Ceiling: Metal panel/Linear metal grille/ Specialty ACT/GWB soffits

Acoustical Requirements:

Sound Transmission Coefficient (STC) rating at partitions between Media Center and adjacent spaces: 50

Plumbing:

Sink in work room

Mechanical:

- Air Conditioned
- Individual Climate Control

Lighting:

- 8 ft. pendant mounted dimmable LED fixtures with (6) combination occupancy/ daylight sensors
- 8 ft. linear recessed LED fixtures
- ON/OFF multi-scene controls at the door

Electrical:

- General duplex receptacles
- Receptacles for projectors
- Receptacles office desk
- Receptacle for copier/printer
- · Connections for circulation desk equipment
- Power for motorized projection screen

Data / Communication:

- Hardwired data outlet (2 data ports) for wireless access point
- Wall phone outlet (1 data port)
- Hardwired data outlets (2 data ports each) for projector
- Dedicated outlets for charging carts
- Overhead speaker speech reinforcement system
- Hardwired voice/data outlet (2 data ports) for teacher workstation
- Connections for speech reinforcement
- Interactive Short-throw projector connections (2 Data Ports)
- Connection for motorized projection screen

Public Address / Clock:

- (2) Digital Clock and display screen
- (5) Paging speakers

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (2) 110cd speaker-strobe





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SCHEMATIC DESIGN

18. MEDIA CENTER

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

N/A

Furniture included in FF&E contract:

- 36"wx42"h movable single sided shelving units
- 24"wx42"h single sided shelving units (to be confirmed)
- Book bin units w/ 8 bins each
- Desk in media office and desk chair
- File cabinet
- Flexible tables with Chairs
- Reception Desk/Office work stations
- Drop off book area
- Reading chairs
- Flat screen TVs in each meeting room
- Mobile Meeting tables in each small group

OTHER INFORMATION

- There will be an estimated (10,000) books
- The 3' and 2' wide shelving units
- Need adjacency to accessible drinking fountain and toilet rooms

Equipment/Technology included in FF&E contract: Equipment:

- (2) Teaching stations
- (1) Printer/copier
- (2) Reception desk computer stations
- (1) Digital card catalog computer station
- (1) Book scanning system
- Destiny catalog software
- (2) Interactive Short Throw Projector
- (1) Ceiling mounted Motorized projection screen
- Mobile Technology:
 - (1) Mobile Technology Cart
 - (50) Student tablets in charging cart
 - Destiny system for book catalog system
 - Bar coded (no RFID)

Equipment in GC Contract:

- (1) Overhead speech reinforcement speaker/local sound system
- (1) Ceiling mounted projector

NOTES:

- Storage shelving/cabinets needed for craft/activity materials
- Soft Furniture (not to lounge in; librarian does want students to be too relaxed.)
- Study carrels





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SCHEMATIC DESIGN

18. MEDIA CENTER

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:





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SCHEMATIC DESIGN

19. MAKER SPACE



GENERAL CRITERIA Description:

Ó'

Makerspace is a STEM program that serves grade 4-6th and is a intergral part of th Media Center.

Area: 1,440 SF Quantity: 1 Users: (20-24) Students at a time (1) Teacher

sinks - M3A

- M3A Low base/wall cabinet unit w/ accessible sink
- M6A 30"d work counter (Maker Space)

M3 – base/wall cabinet unit w/ accessible

SPECIALTIES

Visual Display boards / accessories:

• (4) 4'-0" Magnetic white board

• (1) M1 – Teacher Wardrobes

• (3) M2 - Storage cabinets

(1) 8'-0" Magnetic white boards

Window Treatments:

MILLWORK / CASEWORK

Woven fabric translucent roller shades

Adjacencies:

- Direct access to Media Center
- Must be centrally located within school





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SCHEMATIC DESIGN

19. MAKER SPACE

TECHNICAL CRITERIA

Finish Hardware:

- Main door
 - → Classroom Security Lock set
 → Side lite
- Communicating doors
 - → Passage Lockset

Architectural Finishes:

- Floor: Linoleum (Maker Space)
- Base: 4" resilient vinyl
- Walls: GWB
- Ceiling: Exposed structure / Specialty ACT/ GWB soffits

Acoustical Requirements:

Sound Transmission Coefficient (STC) rating at partitions between Media Center and adjacent spaces: 50

Plumbing:

- Eye wash/shower
- (2) Art sinks with solids interceptors and mixing valves for hot/cold water
- (1) accessible hand-wash sink and mixing valves for hot/cold water

Mechanical:

- Air Conditioned
- Individual Climate Control

Lighting:

- 8 ft. pendant mounted dimmable LED fixtures with (6) combination occupancy/ daylight sensors
- ON/OFF multi-scene controls at the door

Electrical:

- General duplex receptacles
- Receptacles for projectors
- Receptacles for teacher workstation
- Receptacle for copier/printer
- Connections for circulation desk equipment
- General duplex receptacles for Maker Space
 area
- Single outlet for speech reinforcement

Data / Communication:

- Hardwired data outlet (2 data ports) for wireless access point
- Wall phone outlets (1 data port) and (1)
 VoIP telephone handset
- Hardwired data outlets (2 data ports each) for projector
- Power for (25 Ipad) charging cart
- Overhead speaker speech reinforcement system
- Over head power
- (3) Hardwired voice/data outlet (1 voice/2 data ports) for teacher workstation
- Connection for speech reinforcement
- Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (2) Digital Clock and display screen
- (2) Emergency Call Switches
- (1) Talk back speaker

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (4) 110cd speaker-strobe
- Fire extinguisher with blanket



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SCHEMATIC DESIGN

19. MAKER SPACE

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- (1) Paper towel dispenser (at sink area)
- (1) Soap dispenser (at sink area)

Furniture included in FF&E contract:

- (1) Teacher desk and task chair
- (6) Mobile tables with (24) Chairs
- (2) Movable craft carts for Maker Space for media center
- Bins for recycling (size and number)
- Storage shelving/cabinets needed for craft/activity materials and Storage for materials

OTHER INFORMATION

Equipment/Technology included in FF&E con-

- tract: (1) Interactive Short Throw Projector
 - (1) Green screen
 - Equipment:
 - (2) 3D printer UltiMaker (TBD Types) Mobile Technology:
 - (1) Teacher laptop
 - (24) Student tablets in charging cart (shared with art department)
 - (1) Mobile Charging Cart

Equipment in GC Contract:

 (1) Overhead speech reinforcement speaker/local sound system

NOTES:





ROOM DATA SHEETS

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SCHEMATIC DESIGN

19. MAKER SPACE

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:





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SCHEMATIC DESIGN

ROOM DATA SHEETS



GENERAL CRITERIA Description:

Multipurpose space for Physical Education program, adaptive physical education, and community use. It will include a Gym Storeroom and Health Instructor's Office.

Area:

- Gym storerooms @150 SF included
- (1) Gym office @ 250 SF included
- (1) GGym @7,000 SF

Users:

- (40–48) Students (60 max.) Per class Period
- (504) occupant capacity at bleachers
- (800) occupant load max in Gym
- (1–2) Instructors –Instructional assistants as required

Adjacencies:

- Exterior easily accessible
- One OT/PT room desired with direct connection
- Student toilet rooms & drinking fountain
- Nurse's suite



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MILLWORK / CASEWORK

• N/A

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Magnetic White Board
- (1) Motorized retractable projector screen
- Hooks in main gym storeroom

Window Treatments:

N/A



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SCHEMATIC DESIGN

20. GYMNASIUM

TECHNICAL CRITERIA

Finish Hardware:

- Exit devices
- Door closers
- Main Door

 - → Side lite

Architectural Finishes:

Floor: Hardwood with resilient sub-floor

- Base: Vented rubber
- Walls: -Painted CMU masonry to 15' AFF; GWB
 - above 15'

-4' h. Abuse resistant acoustic wall panels, secure wall pads, high-impact GWB above

Ceiling: Exposed structure, painted

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating at partitions between Gymnasium and adjacent spaces: 60

Electrical:

- General duplex receptacles
- General duplex receptacles for office
- Power for scoreboard, motorized projection screen, drop down batting cage, projector lift, basketball hoops, shot clocks, divider curtain, and bleachers.
- Floor outlets near scorer's table, proposed in front of bleachers

Data / Communication:

- Hardwired data outlets (2 data ports) for wireless access points
- Data outlets for scorer table at center of bleachers
- Wall phone outlet (1 data port)
- Wall Mounted-motorized projector

Plumbing:

Mechanical:

- Air conditioning
- Individual Climate Control
- Adequate ventilation for full school assembly (approx. 790 Students and 130 faculty)

Lighting:

- High-bay dimmable LED fixtures with combination occupancy/daylight sensors
- ON/OFF multi-scene controls at the doors

- Public Address / Clock: (2) Analog Clock and display screen with wire guards
 - (6) Local sound speakers w/ (2) microphone jacks at opposite sides of gym
 - (6) PA speakers
 - Microphone jacks at opposite sides of gym
 - Exterior speakers at outdoor play areas for emergencies

Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (2) fire alarm pull stations
- (6) 110cd horn-strobe



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SCHEMATIC DESIGN

20. GYMNASIUM

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

Furniture included in FF&E contract:

Portable podium

• (2) Desk chairs

• (1) File cabinet

Telescopic bleachers to seat 504

• (2) Teacher desks for Gym Office

Metal shelving units in storage

Flag

Equipment/Technology included in FF&E contract:

(1)projector on the cart

Mobile Technology

• (1–2) Teacher laptops

Equipment included in GC Contract:

- (1) Overhead speech reinforcement speaker
- (6) Motorized basketball hoops
 - → Shot clocks attached to primary court hoops
 - → Hoops should be adjustable
- (1) Motorized center roll divider curtain to divide the main court into (2) courts
- (1) Scoreboard and remote control panel
- (1) Wall Mounted-motorized projector screen
- (1) Drop-down batting cage; provide power
- (1) Poles, net and mounting for volleyball net
- Hockey, soccer, basketball, tennis, baseball, gymnastics and dance equipment

OTHER INFORMATION

- Court lines to support basketball, and volleyball.
- Include a rock wall, low priority
- Standby power to be provided for Gymnasium

NOTES:

 PE teacher to provide a detailed equipment list.





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SCHEMATIC DESIGN

20. GYMNASIUM Review Comments: ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:



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SCHEMATIC DESIGN

21. LOCKERS





GENERAL CRITERIA Description:

Locker Rooms is a space for the students to change before and after gym class.

Area: 7,650 sf Girls locker rooms @ 1,000 SF Boys locker rooms @ 1,000 SF

Users:

(40-48) Students (60 max.) Per class

Adjacencies:

• Gym

MILLWORK / CASEWORK

• N/A

SPECIALTIES

Visual Display boards / accessories: • N/A Window Treatments: N/A





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SCHEMATIC DESIGN

21. LOCKERS

TECHNICAL CRITERIA

Finish Hardware:

Main Door

- └→ Classroom lock set
- ⊢ Side lite

Electrical:

- General duplex receptacles
- General duplex receptacles for office

Architectural Finishes:

Floor: epoxy floor/base system Base:epoxy floor/base system Walls: Ceramic tile, high-impact GWB above Ceiling: ACT

Data / Communication:

 Hardwired data outlets (2 data ports) for wireless access points

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating at partitions between Gymnasium and adjacent spaces: 60

Plumbing:

- (2) accessible drinking fountains in the corridor (with bottle filler)
- (2) accessible drinking fountains inside the locker rooms (with bottle filler)
- (4) shower stalls
- (4) toilets
- (2) urinals
- (6) hand-washing sinks.

Mechanical:

- Air conditioning
- Individual Climate Control

Lighting:

- 2'x2' Recessed LED fixtures
- 1x2 Utility LED fixtures ON/OFF

Public Address / Clock:

• (2) Digital Clock and display screen

Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (8) 15cd horn-strobe
- (2) smoke detectors



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SCHEMATIC DESIGN

21. LOCKERS

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

NA

Fixtures included in GC Contract:

- 15; 1/2 height double tier double tier lockers for each gender (# lockers total)
- (8) Benches
- HDPE toilet and changing station Partitions
- Grab bars as required for accessibility
- Feminine Napkin Dispensiers are disposable at girls locker room toilets
- soap and paper towels dispensers are all sinks

• Toilet paper dispensers Furniture included in FF&E contract:

Lockers for boy, girls, and GN

Equipment/Technology included in FF&E contract:

Equipment included in GC Contract:

- N/A
- Vape sensors

Mobile Technology

OTHER INFORMATION

NOTES:





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SCHEMATIC DESIGN

21. LOCKERS

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:

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SCHEMATIC DESIGN

22. WELLNESS CLASSROOM



GENERAL CRITERIA

Description:

Multipurpose space for Physical Education program, adaptive physical education, and community use. It will include a Gym Storeroom and Health Instructor's Office.

Area: 900 SF

Users:

(25 students) per class period

Adjacencies:

Gym

MILLWORK / CASEWORK

- M1 Teacher Wardrobe 4'wide teacher's wardrobe closet;
- M2 Wall storage cabinet at Corridor wall
- M3 Continuous countertop with base/ upper cabinets
- M4 Under–window shelving w/doors. ½ locked and ½ open shelves

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Interactive Display Boards (mobile)
- (1) 8'-0" Magnetic White Board

Window Treatments: N/A





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SCHEMATIC DESIGN

22. WELLNESS CLASSROOM

TECHNICAL CRITERIA

Finish Hardware:

- Main door
 - → Classroom Security Lock set
 - → Side lite
- Communicating door
- → Passage Lockset

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: GWB; painted
- Ceiling: ACT

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between general classrooms and adjacent spaces: 50; STC 45 for corridor wall

Plumbing:

• N/A

Mechanical:

- Air conditioning
- Individual Climate Control

Lighting:

- 8 ft. pendant mounted dimmable LED fixtures with combination occupancy/ daylight sensors
- ON/OFF controls at the door and multiscene controls at the front of the classroom



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Electrical:

- General duplex receptacles
- GFCI receptacle at sink area
- Receptacle for projector
- Receptacles for teacher workstation
- General duplex receptacle inside millwork
 for charging cabinet

Data / Communication:

- (1) Hardwired data outlet (2 data ports) for projector
- (1) Hardwired data outlet (2 data ports) for wireless access point
- (1) Wall phone outlet (1 data port)
- (1) Overhead speaker speech reinforcement system
- (2) Hardwired voice/data outlets (2 data ports) for teacher workstation
- (1) Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (1) Emergency Call Switches
- (1) PA ceiling speaker

Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (1) 75 candela audiovisual device


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SCHEMATIC DESIGN

22. WELLNESS CLASSROOM

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

• N/A

Equipment/Technology included in FF&E con-

tract: (1) Interactive Short – Throw Projector Mobile Technology:

- (1) Teacher laptop
- (1) Mobile Technology cart

Equipment included GC Contract:

• (1) Overhead speech reinforcement speaker

Furniture included in FF&E contract:

- (1) Teacher desk and chair
- (1) Adjustable height table attachment for teacher desk
- (1) Aide chair
- (25) Flat top student desks with storage
- (25) Student chairs

OTHER INFORMATION

NOTES:





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SCHEMATIC DESIGN

ROOM DATA SHEETS

22. WELLNESS CLASSROOM

Review Comments:

Reviewed by:

Name, Title:

Date:



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SCHEMATIC DESIGN

23. EXECUTIVE FUNCTIONING



GENERAL CRITERIA

Description:

This room is used for yoga club, typical classes, meditation, and self-control.

Area: 900 SF

Users: (20) Students (1) Instructor Aides as required

Adjacencies:

- Exterior easily accessible
- Gym
- Guidance Suit
- Health /Wellness classroom

MILLWORK / CASEWORK

- M1 Teacher Wardrobe 4'wide teacher's wardrobe closet;
- M2 Wall storage cabinet at Corridor wall
- Storage for yoga mats and block
- Continuous countertop with base/upper cabinets
- M3A 34"h ADA compliant base unit with sink, plastic laminate counter top and backsplash. 18" h wall

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Magnetic White Board
- (2) 4'-0" Tack boards

Window Treatments:

Woven fabric translucent roller shades





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SCHEMATIC DESIGN

23. EXECUTIVE FUNCTIONING

TECHNICAL CRITERIA

Finish Hardware:

- Main door
 - └→ Classroom Security Lock set
 - → Side lite

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: GWB; painted and mirrored wall
- Ceiling: ACT

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between general classrooms and adjacent spaces: 50; STC 45 for corridor wall

Plumbing:

• (1) Accessible sink with hot/cold water and integral drinking fountain at child height.

Mechanical:

Air conditioning

Lighting:

- 8 ft. pendant mounted dimmable LEDfixtures with
- Combination occupancy daylight sensors
- ON/OFF controls at the door and multiscene controls at the front of the classroom



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Electrical:

- General duplex receptacles
- GFCI receptacle at sink area
- Receptacle for projector
- Receptacles for teacher workstation
- General duplex receptacle inside millwork
 for charging cabinet

Data / Communication:

- Hardwired data outlet (2 data ports) for projector
- Hardwired data outlet (2 data ports) for wireless access point
- Wall phone outlet (1 data port)
- Overhead speaker speech reinforcement system
- Hardwired voice/data outlets (2 data ports)
 for teacher workstation
- Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (1) Emergency Call Switches
- (1) PA ceiling speaker

Fire Protection / Fire Alarm:

Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (1) 75 candela audiovisual device



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SCHEMATIC DESIGN

23. EXECUTIVE FUNCTIONING

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- Paper towel dispenser (at sink)
- Soap dispenser (at sink)
- Yoga mat Sanitize station TBD

Equipment/Technology included in FF&E con-

tract: (1) Interactive Short – Throw Projector

Mobile Technology

- (1-2) Teacher laptops
- •

Equipment included in GC Contract:

 (1) Overhead speech reinforcement speaker

Furniture included in FF&E contract:

- (1) Teacher desk and chair
- (1) Aide chair
- (10) tables -two students per table
- (20) Student chairs
- (20) Floor cushions
- (20) Yoga mats
- (40) Yoga blocks

OTHER INFORMATION

• Desire an integral sound system for music

NOTES:





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SCHEMATIC DESIGN

ROOM DATA SHEETS

23. EXECUTIVE FUNCTIONING

Review Comments:

Reviewed by:

Name, Title:

Date:



Clinton Public Schools Clinton, MA



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SCHEMATIC DESIGN

24. CAFETORIUM & TABLE STORAGE





GENERAL CRITERIA

Description:

Multipurpose space used for student dining with multiple lunch servings in rotating intervals of 15 minutes to be large enough to accommodate (4) lunch servings each day. It will also be used for extended day and summer programs. The Cafetori– um will include a stage, with adjacency to the music rooms, to be used for performances and assemblies.

Area: 5,250 SF CAFETORIUM / Dining, 433 SF CAFE Storage

Quantity: 1

(1) Chair/Table Storage @ 433 SF included Users:

Rotating (4–7 classroom) clusters/lunch interval for a total of (230) Students at a time for lunch period

Adjacencies:

- Close to Gymnasium, main Lobby, and Administration Suite
- Direct adjacency to Stage and Faculty Dining
- Direct access to exterior



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MILLWORK / CASEWORK

- Specialty paneling and Stage opening surround
- Stage stair risers/treads
- Custom enclosure for trash and recycle receptacles
- Casework for condiments
- Ala cart
- Casework for Trash and Recycling receptacles.
- Sink with upper/ lower Cabinets in Staff rm

SPECIALTIES

Visual Display boards / accessories:

- (1) Motorized projection screen
- (1) Ceiling mounted projector
- (30?) Coat hooks for extended day

Window Treatments:

 Room darkening window treatment/ Motorized window shades



100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

24. CAFETORIUM & TABLE STORAGE

TECHNICAL CRITERIA

Finish Hardware:

- Overhead coiling grills to Serving area
- Storeroom lockset at Table Storage doors
- Classroom lockset for doors to Main Lobby
- Panic egress hardware

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: Painted GWB with acoustic panels and plastic laminate panels
- Ceiling: Specialty ACT

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between self contained SPED and adjacent spaces: 60

Plumbing:

• (1) Water fountain with bottle refill located outside of Cafeteria, off Main Lobby

Mechanical:

Air conditioning

Lighting:

- 8' Diameter Round Pendant-mounted dimmable LED fixtures with (12) combination occupancy/daylight sensors & (8) 4' utility linear fixtures for chair storage
- ON/OFF controls at the door and multi–



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Electrical:

- General duplex receptacles
- Power for motorized projection screen

Data / Communication:

- Hardwired data outlet (2 data ports) for wireless access point
- Overhead speaker speech reinforcement system
- (1) Moterized projector connections (2 Data Ports)

Public Address / Clock:

- (2) Digital clock and display screen
- Local sound speakers
- PA speakers
- Local sound system integrated w/ Platform sound system

Fire Protection / Fire Alarm:

• (4) Audiovisual fire alarm devices with a candela rating of 110cd



100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

24. CAFETORIUM & TABLE STORAGE

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

N/A

Equipment/Technology included in FF&E contract:

Equipment to be included in GC Contract:

- (1) Motorized projector screen
- (1) Ceiling-mounted projector
- (1) Freezer for Ice Cream
- (2) Vending machines outside of cafeteria (size?)
- (1) Ala Cart

NOTES:

Furniture included in FF&E contract:

- Oval and round tables with attached seats to seat a minimum of 234 each 4 lunch periods.
- 250 stackable chairs for assembly
- Accessible seating must be integrated.
- (20)Chairs Stackable and Tables in Staff lunchroom (also used for baking club)

OTHER INFORMATION

- Standby power to be provided in Cafetorium
- 3 lunch lines, 3 registers, 3 servers
- Sound system upgrade
- Space may be used for cheerleading practice after school.



100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

24. CAFETORIUM & TABLE STORAGE

Review Comments:

Reviewed by:

Name, Title:

ROOM DATA SHEETS

LPA

Date:





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

ROOM DATA SHEETS

25. KITCHEN & STORAGE



GENERAL CRITERIA

Description:

Full service kitchen that provides breakfast and lunch for students each day. The kitchen will be closed during the summer months. MILLWORK / CASEWORK

Area/Quantity: 3,000 SF

Kitchen includes:

- (1) Servery
- (1) Kitchen
- (1) Office
- (2) Dry Storage
- (2) Toilets
- (1) Dish-washing room
- (1) Cooler
- (1) Freezer
- (1-3) Ala Cart for cold, hot, process foods

Users:

(3-5) Staff

1 dish, 3 registers, 3 servers,

Adjacencies:

- Direct adjacency to Cafetorium
- Close proximity to Receiving area



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SPECIALTIES

N/A

Visual Display boards / accessories:

- (1) 4' Magnetic markerboard in kitchen office
- (1) Tack board

Window Treatments:





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SCHEMATIC DESIGN

25. KITCHEN & STORAGE

TECHNICAL CRITERIA

Finish Hardware:

- Kitchen Door: Office lockset
- Storage Door: Storeroom lockset
- Exit devices
- Door closers

Architectural Finishes:

- Floor: Epoxy Slip proof at Kitchen and servery
- Base: Epoxy
- Walls: FRP w/ CT backsplash
- Ceiling: Vinyl/cleanable ACT w/ some gypsum board soffits

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between rooms and adjacent spaces: 60

Plumbing:

- Hand wash and pot sinks
- (2) Accessible staff toilet rooms (M/W)
- Grease interceptor(s)
- Washer/dryer connections
- Floor sink in Kitchen Janitorial closet
- Floor drains, accessible for clean out
 - \mapsto (1) Floor drain outside of cooler door

Mechanical:

- Individual climate control
- Air conditioning

Lighting:

- 2'x2' recessed LED fixtures with combination occupancy/daylight sensors
- ON/OFF controls at the door

Electrical:

- Receptacles for each POS/cashier
- Electrical connections for all kitchen equipment
- General duplex outlets

Data / Communication:

- (3) Hardwired data outlet for each the point of sale station
- Hardwired data outlet in Kitchen Office
- Buzzer in Kitchen for receiving door at loading dock

Public Address / Clock:

- (1) Digital Clock and display screen
- (6) PA speakers

- Fire Protection / Fire Alarm: Ordinary-Hazard Sprinkler Coverage in Kitchen and Janitor closet
 - Walk-in Cooler and Freezer to have concealed dry pendant sprinklers
 - (3) Heat detectors
 - (2) 75cd speaker-strobes
 - Appropriate fire suppression included with Hood System for cooking equipment below.







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SCHEMATIC DESIGN

25. KITCHEN & STORAGE

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- (2) Electric hand dryers (one at each toilet room sink)
- (2) Toilet paper dispensers (one at each toilet)
- Soap dispensers at each sink area
- Paper towel dispensers at each sink area

Furniture included in FF&E contract:

- (2) Desk and chair in Kitchen office
- (1) Filing Cabinet in Kitchen office
- (1) Photo copier
- (2) Computer
- (8–10) Lockers for staff
- (8-10 units) Open wire shelving in storage
- (1) Washer and Drver
- (2) Vending Machines

OTHER INFORMATION

- A dedicated dish-washing/dish drop area is included for future flexibility.
- Kitchen/Servery to be self-contained by using overhead coiling doors
- Potential information into ala cart.
- Standby power will be provided for Kitchen freezer/cooler walk-in(s)
- Lunch periods will be 4/5, 5/6, 7 and 8.
- Electric powered equipment

Equipment/Technology included in FF&E con-

tract: Alarms on walk-in coolers and freezers. Receive text or email notification.

- (1) Digital Displays are desired
- (#) "Smart" Alarms in walk in Freezers
- (#) Digital display Boards (desired)
- (1) Washer and Dryer connection
- (1) Printer in Kitchen office
- (1)Scanner in Kitchen office
- (1) Interactive Short Throw Projector

Equipment to be included in GC Contract:

- (3) Accessible point of sale station on casters
- (1) 50 gallon grease receptacle
- Refer to full equipment list on Food Service Drawings Equipment list to be provided





ROOM DATA SHEETS

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SCHEMATIC DESIGN

25. KITCHEN & STORAGE

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:



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SCHEMATIC DESIGN

ROOM DATA SHEETS

26. PLATFORM & PLATFORM EQUIPMENT



GENERAL CRITERIA

Description:

Multi-use space for various performances and assemblies which doubles as an additional Music classroom/rehearsal space.

N/A

Area/Quantity:

(1) Stage @ 1,600SF

(1)Storage @ 280 SF Users:

(1) Teacher

(30-50) Students for assembly/performance

Adjacencies:

- Directly adjacent to Cafetorium
- Direct access to Music Rooms

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Interactive Display Whiteboard
- (2) 4'-0" White board
- (1) An Acoustically-rated, electricallyoperated partition between the Platform and cafetorium. This will be located at the proscenium opening (the backside of).

Window Treatments:

N/A





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SCHEMATIC DESIGN

TECHNICAL CRITERIA

Finish Hardware:

- Storeroom lockset for platform Equipment
- Classroom lockset for doors between platform and Music Room

Architectural Finishes:

- Stage flooring; in front of the proscenium will be wood tongue and groove and in back of the proscenium will be linoleum
- Base: 4" vented rubber
- Walls: GWB; painted w/ acoustic panels and plastic laminate panels
- · Ceiling: GWB or Specialty ACT with gyp board soffits and acoustic diffusers

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating at partitions between Platform and adjacent spaces: 60

Electrical:

- General duplex receptacles
- Receptacle for projector
- Power for operable partition
- Outlet for speech reinforcement amplifier
- Power for motorized lighting track(s)
- Receptacle for projector
- An electrically-operated partition between the stage and cafetorium. This will be located at the proscenium opening (the backside of).

Data / Communication:

- Hardwired data outlet (2 data ports) for wireless access point
- Wall phone outlet (1 data port) and (1) VoIP telephone handset
- Interactive Short-throw projector connections (2 Data Ports)

Plumbing:

Mechanical:

Lighting:

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Air conditioning

Individual climate control

Recessed can dimmable LED fixtures with

combination occupancy/daylight sensor ON/OFF and multi-scene controls at the

N/A

Public Address / Clock:

- (1) Digital Clock and Display Screen
- (1) Connection to cafeteria sound system

Fire Protection / Fire Alarm:

- (2) Ceiling-mounted smoke hatches
- (2) Fire hose connections
- (2) 75cd speaker-strobe



door(s)



ROOM DATA SHEETS

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SCHEMATIC DESIGN

26. PLATFORM & PLATFORM EQUIPMENT

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

N/A

Equipment/Technology included in FF&E contract: Document camera

- (1) Technology cart
- (1) Interactive Short Throw Projector
- General music instruments (TBD)

Equipment included in GC contract:

- (1) Overhead speech reinforcement speaker
- Motorized lighting track(s)
- Microphones/sound system accessories

Furniture included in FF&E contract:

- (1) Conductor chair
- (1) Podium
- (30) Student stacking chairs with rolling cart
- (1) Upright piano
- (6)tables
- (24) Chairs
- Standing risers for (50) students

OTHER INFORMATION

Confirm number of users for performances

- NOTES: See music room furniture list for number of choral risers (to be shared with platform area)
 - Possible IPad or chrome for flexible learning use might request a charging cart





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SCHEMATIC DESIGN

26. PLATFORM & PLATFORM EQUIPMENT

Review Comments:

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Name, Title:

ROOM DATA SHEETS

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Date:



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SCHEMATIC DESIGN

27. STAFF DINING



GENERAL CRITERIA

Description:

Multi-purpose room used for Faculty Dining at lunchtime and for meetings.

MILLWORK / CASEWORK

 M3 – Base and wall upper and lower cabinets with sink

Area: 275 SF Quantity: 1

Users:

(15) Faculty/Staff

Adjacencies:

• Directly adjacent to Cafetorium

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Magnetic whiteboard
- (1) 4'-0" Tack board

Window Treatments:

Window frosting or roller window shades





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SCHEMATIC DESIGN

27. STAFF DINING

TECHNICAL CRITERIA

Finish Hardware:

- Door with vision panel or side lite
- Exit devices
- Door closers

Architectural Finishes:

- Floor: Linoleum
- Base: 4" Resilient vinyl
- Walls: GWB; painted
- Ceiling: ACT

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between Faculty Dining and adjacent spaces: 50; between dining and Platform: 60

Plumbing:

- (1) Accessible sink
- Water connection for refrigerator

Mechanical:

Air conditioning

Lighting:

- 5' diameter round pendant with (1) combination occupancy/daylight sensor
- ON/OFF controls at the door

Electrical:

- General duplex receptacles
- GFCI receptacles at counter sink area
- Duplex receptacles for refrigerator and microwave

Data / Communication:

- Hardwired data outlet (2 data ports) for projector
- Hardwired data outlet (2 data ports) for wireless access point

Public Address / Clock:

- (1) Digital Clock and Display Screen
- (1) Emergency Call Switch
- (1) Talk back speaker

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- 75 Candela visual device





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SCHEMATIC DESIGN

27. STAFF DINING

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- Soap dispenser at sink
- Paper towel dispensers at sink

ROOM DATA SHEETS

Equipment/Technology included in FF&E con-

tract: (1) Microwave

- (1) Full height refrigerator with ice maker / water dispenser
- (1) Interactive Short Throw Projector

Equipment included in GC contract:

- Residential refrigerator/freezer
- Microwave

Furniture:

- (4) Round OR square group tables with (3– 4) chairs each (for 12–16 people)
- (1-2) Lounge seats with acoustic isolation (such as KI Connect Zone Booth)

OTHER INFORMATION

NOTES:





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SCHEMATIC DESIGN

27. STAFF DINING

Review Comments:

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SCHEMATIC DESIGN

ROOM DATA SHEETS



All students in the school attend general music, and all fourth grade students participate in Chorus. Curriculum includes small instruments,

Area/Quantity: 2,775 SF

singing, dancing, etc.

- (1) Band Room @ 1,500 SF
- (1) Music Storage @ 250 SF
- (2) Practice / Ensemble @ 200 SF

Users:

(1-2) Teachers (20-30) Students Teachers assistants as required

Adjacencies:

Platform in cafeteria

M1 - Teacher Wardrobe

- M2 Storage Unit
- M3 Base/wall cabinet unit w/sink .
- M3A accessible base/wall cabinet unit w/ sink

SPECIALTIES

Visual Display boards/Accessories:

- (2) 4' Magnetic white boards w/ staff lines
- (1) 8' Magnetic white board for projector
- (2) 4' Magnetic white boards
- (1) 8' Tack board

Window Treatments:

Woven fabric translucent shades





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SCHEMATIC DESIGN

28. BAND

TECHNICAL CRITERIA

Finish Hardware:

- Main door:

 - └→ Door closer

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: GWB Painted , Acoustic wall panels
- Ceiling: Specialty acoustic tiles with gypsum board soffits

Acoustical Requirements:

Sound Transmission Coefficient (STC) rating between Music and adjacent spaces: 50–60

STC (50–55) Between Music room and storage STC (60) between Music room and other rooms

Plumbing:

- (1) Accessible sink with hot/cold water and integral drinking fountain at child height.
- (1) Deep sink with mixing valves for cleaning instruments and mouthpieces

Mechanical:

- Air conditioning
- Individual climate control

Lighting:

- 8 ft. pendant mounted dimmable LED fixtures with (2) combination occupancy/daylight sensors
- 2'x2' Recessed LED fixtures with (2) multisensors in storage room
- ON/OFF controls at the door and multi-scene controls at the front of the classroom

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Electrical:

- General duplex receptacles
- GFCI receptacle at counter sink area;
- Receptacle for projector
- Receptacle for teacher workstation
- Floor outlets for Digital Keyboard
- Power for integral sound system

Data / Communications:

- (1) Hardwired data outlet (2 data ports) for wireless access point
- (2) Hardwired voice/data outlet (2 data ports) for teacher work station
- (1) Wall phone outlet (1 data port) (1) Hardwired data outlet (2 data ports) for projector
- (1) Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (1) Emergency Call Switches
- (1) Talk back speaker

Fire Protection / Fire Alarm:

- Ordinary–Hazard Sprinkler Coverage in music storage rooms
- (2) 75 candela audiovisual device
- (1) 15cd audiovisual device



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SCHEMATIC DESIGN

28. BAND

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- Soap dispensers at each sinks
- Paper towel dispensers at each sink area

Equipment/Technology included in FF&E con-

tract: (1) Interactive Short – Throw Projector

Equipment included in GC contract:

- (1) Overhead speech reinforcement speaker
- Integral sound system

Furniture included in FF&E contract:

- (1) Upright piano
- (55) stackable Wenger music chairs with storage carts
- (40) music stands
- (1) Teacher desk and chair
- Wenger music storage system or file cabinets for storage
- Conductor podium and chair

OTHER INFORMATION

NOTES:





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SCHEMATIC DESIGN

28. BAND

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:

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Clinton Public Schools Clinton, MA

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SCHEMATIC DESIGN

29. MUSIC PRACTICE & STORAGE



GENERAL CRITERIA

Description:

Space for music practice and musical instrument storage

Area/Quantity:

- (2) Music Practice Room @ 150 SF
- (1) Music storage @130 SF
- (1) Music storage @150 SF

Users:

(4-6) Music Students

Adjacencies:

Platform in cafeteria / Band Room

MILLWORK / CASEWORK

Musical Instrument Storage casework

SPECIALTIES

Visual Display boards/Accessories:

- (2) 8' Magnetic white boards w/ staff lines
- (1) 6' Tack board

Window Treatments:





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SCHEMATIC DESIGN

29. MUSIC PRACTICE & STORAGE

TECHNICAL CRITERIA

Finish Hardware:

- Main door:

 - \mapsto Door closer
 - $\, \rightarrowtail \, {\rm Side \, lites \, in \, doors}$

Architectural Finishes:

- Floor: Linoleum
- Base: 4" resilient vinyl
- Walls: GWB Painted, acoustic panels
- Ceiling: ACT

Acoustical Requirements:

Sound Transmission Coefficient (STC) rating Between Music and adjacent spaces: 50–60

- STC (50–55) Between Practice room and storage
- STC (60) between Music room and other rooms

Plumbing:

Mechanical:

- Air conditioning
- Individual climate control

Lighting:

- 8 ft. pendant mounted dimmable LED fixtures with (2) combination occupancy/daylight sensors
- 2'x2' Recessed LED fixtures with multi-sensors in storage room
- ON/OFF controls at the door and multi-scene controls at the front of the classroom



Clinton Public Schools Clinton, MA

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Electrical:

- General duplex receptacles
- Outlets for Digital Keyboard

Data / Communications:

- Hardwired data outlet (2 data ports) for wireless access point
- Hardwired voice/data outlet (1 voice/2 data ports) for teacher work station
- Wall phone outlet (1 data port) and (1) VoIP telephone handset
- Interactive Short-throw projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (1) Emergency Call Switches
- (1) PA speakers

Fire Protection / Fire Alarm:

- Ordinary–Hazard Sprinkler Coverage in music storage rooms
- (1) 15 candela audiovisual device



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SCHEMATIC DESIGN

29. MUSIC PRACTICE & STORAGE

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

N/A

Equipment/Technology included in FF&E contract: Equipment included in GC contract:

Furniture included in FF&E contract:

- (2) Portable digital pianos with stands
- (12) practice chairs
- (12) music stands

OTHER INFORMATION

<u>NOTES:</u> Yamaha traditions keyboard. Electrical piano





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SCHEMATIC DESIGN

29. MUSIC PRACTICE & STORAGE

Review Comments:

Reviewed by:

Name, Title:

ROOM DATA SHEETS

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Date:



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SCHEMATIC DESIGN

ROOM DATA SHEETS



Gym

 Ceiling-mounted cubicle curtain track at rest areas



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SCHEMATIC DESIGN

30. MEDICAL SUITE

TECHNICAL CRITERIA

Finish Hardware:

Main Door: Office lockset Office/Exam Doors: Office lockset Toilet Door: Office lockset with vacancy indicator

Architectural Finishes:

- Floor: Linoleum
- Base: 4" Resilient vinyl
- Walls: GWB; painted
- Ceiling: ACT

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between general classrooms and adjacent spaces: 50

Plumbing

- (1) Accessible hand wash sink with mixing valve outside of Nurse's office
- (1) Non-accessible sink with mixing valve in Exam Room
- (1) Non-accessible sink with mixing valve in Exam Room/Lactation Room
- (1) Accessible sink in toilet

Mechanical:

- Air conditioning
- Individual climate control

Lighting:

- 2¹x2¹ Recessed LED fixtures with (4) combination occupancy/daylight sensors
- 2'x2' Recessed LED light, (1) fixture with (1) multisensor (toilet rm.)
- ON/OFF controls at door

Electrical:

- General duplex receptacles
- GFCI receptacles at counter sink areas
- GFCI receptacle at bathroom area
- Quad receptacles for Nurse's office
- Duplex receptacles for each Exam room
- Receptacle for refrigerator

Data / Communication

- Hardwired voice/data outlet (2 data ports) per office
- Hardwired data outlet (2 data ports) for wireless access points
- Wall phone outlet (1 data port)
- Interactive Short–Throw Projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (1) Emergency Call Switch
- (4) PA speakers

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (1) 75 candela audiovisual device
- (2) 15 candela audiovisual devices
- (7) 15cd visual devices





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SCHEMATIC DESIGN

30. MEDICAL SUITE

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- (1) Electric hand dryer (at sink in toilet room)
- (2) Soap dispensers (one at each sink)
- (1) Toilet paper dispenser
- (2) Paper towel dispensers (one at each sink area)

ROOM DATA SHEETS

Equipment/Technology included in FF&E con-

- tract: (1)refrigerator for medications no lock
 - (1) Nurse laptop
 - Privacy curtains between beds on ceiling track

Furniture included in FF&E contract:

- (6) Waiting room chairs
- (1) Nurse's desks 3'x6' and (2) chairs in office
- (5) Chairs in waiting area
- (2) Exam Room chairs, one per room
- (2) A mobile stools, one per exam Room
- (1) Wheeled table for mobile computer station
- (2) 3-drawer filing cabinets
- (1) Smaller table: service/check-in
- (1) chair for counter top desk in resting area
- Shelving in storage closet

OTHER INFORMATION:

- Include supply closet with shelving
- NOTES:
 - Needs acoustical separation to be well insulated





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SCHEMATIC DESIGN

30. MEDICAL SUITE

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:

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SCHEMATIC DESIGN

ROOM DATA SHEETS



GENERAL CRITERIA

Description:

The Administration Suite functions to support the centralized administration for the school. It is the control point for public access to the building. School-wide communications are centered here. Total Area: 3,500 SF

(Not including SF for Guidance and SPED suite)

Areas/Quantities:

- (1) General Office/Waiting/Toilet @ 450SF
- (1) Teachers' Mail and Time Room @ 100
 SF
- (1) Records Room @ 200 SF
- (1) Principal's Office @ 175 SF
- (1) Principal's Secretary/waiting @ 125 SF
- (1) Assistant Principal's Office 1@ 150 SF
- (1) Assistant Principal's Office 2@ 150 SF
- (1) Conference Room @ 350 SF
- (1) Supervisory / Spare Office (SRO) @ 150 SF

Users: (5–6) Staff: Principal, Assistant Principal, and two receptionists.

MILLWORK / CASEWORK

• M10 - Custom reception desk with (2) work stations

30'

- M3A Base and upper cabinets with sink
- M9 Mail cubby units for (100 min) staff
- Upper/base cabinets and working surface where possible at reception desk
- Principal office lockable wardrobe closet/cabinet

SPECIALTIES

Visual Display boards / accessories:

- (1) Flat screen wall mounted monitor for digital signage in waiting area
- (4) 4'-0" Tack board in offices
- (1) Short throw projectors
- (2) Technology carts
- (1) 8'-0" Magnetic Markerboard in conference room

• (4) 4'-0" Magnetic Markerboards in offices

Window Treatments:

- Woven fabric translucent roller shades Adjacencies:
 - Main Entrance/Lobby
 - Exterior drop off area



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SCHEMATIC DESIGN

31. ADMINISTRATION SUITE

TECHNICAL CRITERIA

Finish Hardware:

- Office lockset for offices
- Door from Vestibule: Video Entrance Station

Architectural Finishes:

- Floor: Carpet
- Base: 4" Resilient vinyl
- Walls: GWB; painted
- Ceiling: ACT

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between general classrooms and adjacent spaces: 45–50; between offices: 50

Plumbing:

- (1) Non-accessible sink with mixing valve for staff use at break counter (not needed in conference room)
- (2) Accessible staff toilet rooms (single occupant M/W)

Mechanical:

- Individual climate control
- Air conditioning

Lighting:

- 2x2 recessed fixture with (1) combination occupancy/daylight sensor (per office)
- recessed can LED fixtures for reception and corridor
- 8ft. pendant mounted dimmable LED fixture with
- 2'x2' LED fixtures

Electrical:

- General duplex receptacles
- Receptacles for workstations
- Receptacle for copier/printer
- Receptacle for refrigerator
- Receptacles for projectors
- Power for flat panel digital display in Waiting area

Data / Communication:

- Hardwired data outlet (2 data ports) for wireless access point
- Hardwired voice/data outlets (1 voice/2 data ports) for work stations
- Connection at reception desk.
- Data connection at digital display in waiting area
- Video entrance system control at reception desk
- Hardwired data outlet (2 data ports ea.) for projectors
- Access control system
- Panic button located in Records room
- Interactive Short–Throw Projector connections (2 Data Ports)

Public Address / Clock:

- (8) Digital Clock and display screen
- (1) Emergency Call Switch per office; (2) at reception desk
- (5) PA Ceiling speakers
- Microphone jacks for PA system interface
- (4) Panic button at office reception desk, principal's office, and both assistant principal's offices

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- Ordinary–Hazard Sprinkler Coverage in Mail/Duplicating areas and Records room
- (1) 75 candela audiovisual device
- (4) 15 candela visual devices



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100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

31. ADMINISTRATION SUITE

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- Soap and paper towel dispenser at sink
- Safe drop payment box in the mailroom
- Secure vault in records room

Furniture included in FF&E contract:

- (1) Desk and chair at Principal's office
- (1) Round table with 4 chairs Principal's office
- (1) Desk and chair at Asst. Principal's office
- (1) 2–3 chairs at Asst. Principal's office and principles office
- (3–5) Chairs in waiting room
- (1) 30" dia. Coffee table in waiting area
- (1) 12'x5' Conference table
- (15) Conference room chairs
- (2) Chairs at reception desk (two work stations)
- (3) Shelving units
- (3) Lateral file units
- "Kitchenette" wall with fridge/micro in Teacher mail room
- 5 Filing Cabinets in Records room
- (1) TV screen and security system monitors -Principles office

Adjacencies desired:

- Mail room to be close to general office
- Records room to be a secure location in an emergency situation (aka: Alamo).

Equipment/Technology included in FF&E contract:

- tract: (2) Monitors for the front desk
 - (1) Copier/Printer
 - (2) Mobile Technology carts
 - (1) Flat screen wall mounted monitor for digital signage in waiting area
 - (1) Interactive Short Throw Projector

Equipment included in GC contract:

- (1) Overhead speech reinforcement speaker
- Microwave
- Under-counter refrigerator
- Buzzer at entry door

NOTES:





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

ROOM DATA SHEETS

31. ADMINISTRATION SUITE

Review Comments:

Reviewed by:

Name, Title:

Date:





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

32. SPED ADMINISTRATION



GENERAL CRITERIA

Description:

The SPED admin office, functions to provide a home base and meeting space for the Special Education Site Coordinator.

Areas:

- (1) Office BCBA ABA 150 SF
- (1) Office Psychologist 150 SF
- (1) Office OT/PT Office 150 SF Missing
- (2) Office Adjustment Counselor TLC 100 SF
- (1) SPED Conference Room @ 350 SF

Users: (1) Staff per office Adjacencies:

MILLWORK / CASEWORK

• N/A

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Interactive Display Whiteboard -Conference Room
- (2) 8'-0" Magnetic Markerboards
- (5) 4'-0" Tack Board
- (4) 4'-0" White Board

Window Treatments:

• Woven fabric translucent roller shades





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

32. SPED ADMINISTRATION

TECHNICAL CRITERIA

Finish Hardware:

Office lockset for office

Electrical:

- General duplex receptacles
- Receptacles for workstation

Architectural Finishes:

- Floor: Carpet
- Base: 4" Resilient vinyl
- Walls: GWB; painted
- Ceiling: ACT

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between general classrooms and adjacent spaces: 50

Plumbing:

• N/A

Mechanical:

- Air conditioning
- Individual climate control

Lighting:

- 8 ft. pendant mounted dimmable LED fixture for office
- 16 ft. pendant mounted dimmable LED fixture with (6) Recessed can LED fixtures for conference room
- Combination occupancy/daylight sensors



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Clinton Public Schools Clinton, MA

Data / Communication:

- Hardwired data outlet (2 data ports) for office
- Hardwired data outlet (2 data ports) for conference room
- Hardwired data outlet (2 data ports) for wireless access points
- Wall phone outlet (1 data port) and (1) VoIP telephone handset per office
- Hardwired data outlet (2 data ports) for projector
- Overhead speaker speech reinforcement system
- Interactive Short–Throw Projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (1) Emergency Call Switch at office

Fire Protection / Fire Alarm:

Light-Hazard Sprinkler Coverage



100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

32. SPED ADMINISTRATION

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

• N/A

Equipment/Technology included in FF&E con-

tract: (1) Interactive Short – Throw Projector

Included in GC Contract:

Furniture:

- (1) Office desk and (1) Office chair per SPED Office
- (2) Guest chairs in each office
- (1) 12'x5' Conference table
- (15) Conference room chairs
- (1) Shelving unit

OTHER INFORMATION

NOTES:





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

32. SPED ADMINISTRATION

Review Comments:

Reviewed by:

Name, Title:

ROOM DATA SHEETS

Z LPA

Date:





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

33. TEACHER PLANNING



Area/Quantity: (2) Teacher Planning @450 SF

Users:

(12-15) Staff

Adjacencies:

• (1) on each floor

SPECIALTIES

Visual Display boards / accessories:

- (1) 8'-0" Interactive Display Whiteboard
- (2) 4'-0" Tack board
- (2) 4'-0" White Board

Window Treatments: Woven translucent window shade





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

33. TEACHER PLANNING

TECHNICAL CRITERIA

Finish Hardware:

- Office lockset
- Side lite in door

Architectural Finishes:

- Floor: Linoleum
- Base: 4" Resilient vinyl
- Walls: GWB; painted
- Ceiling: ACT

Acoustical Requirements:

Sound Transmission Coefficient (STC) rating between offices and adjacent spaces: 50; between Teacher Planning and toilet room: 53

Plumbing:

- (1) Sink with hot/cold water
- Water connection for refrigerator

Mechanical:

Air conditioning

Lighting:

- 8 ft. pendant mounted dimmable LED fixtures with (1) combination occupancy/ daylight sensor
- ON/OFF controls at the door

Electrical:

- General duplex receptacles (charging for teacher devices distributed
- GFCI receptacle at counter sink area
- Receptacle for refrigerator
- Receptacle for copier/printer
- Receptacle for projector

Data / Communication:

- Hardwired data outlet (2 data ports) for wireless access point
- Wall phone outlet (1 data port)
- Hardwired data outlet (2 data ports) for copier/printer
- Hardwired data outlet (2 data ports) for projector
- Hardwired data outlet (2 data ports) for workstations
- Copier/Printer
- Interactive Short–Throw Projector connections (2 Data Ports)

Public Address / Clock:

- (1) Digital Clock and display screen
- (1) Emergency Call Switches
- (1) Talk back speaker

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (1) 75cd speaker-strobe



100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

33. TEACHER PLANNING

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

Soap and paper towel dispenser at sink

Equipment/Technology included in FF&E contract:

• (1) Interactive Short throw projector

Included in GC Contract:

- (1) Refrigerator with ice maker
- (1) Microwave

Furniture included in FF&E contract:

- (1) 12'x4' Conference table
- (12–15) Conference room chairs
- OR (6) mobile tables that can be arranged to create a conference table

OTHER INFORMATION

NOTES:

Copy/printer to be leased by District; power and data to be provided under base contract.





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

33. TEACHER PLANNING

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

ROOM DATA SHEETS

34. GUIDANCE SUITE

EXTERIOR



EXTERIOR

GENERAL CRITERIA

Description:

Guidance counselor provide offices for the school psychologists, meetings with students, and an area to store materials. These offices are less visible to the main circulation areas for privacy.

MILLWORK / CASEWORK

• N/A

Total Area: 850 SF

Areas/Quantities:

- (4) Guidance Offices @ 600 SF
- (1) Guidance Storeroom @ 50 SF
- (1) Guidance storageroom 150 SF
- (1) Waiting room @100 SF
- (1) Outside Provider Offices@125 SF

Users: (2-4) guidance counselors

SPECIALTIES

Visual Display boards / accessories:

- (5) 4'-0" Magnetic Whiteboards
- (6) 4'-0" Bulletin Board

Window Treatments:

Woven fabric translucent roller shades

Adjacencies:

Administration suite





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

34. GUIDANCE SUITE

TECHNICAL CRITERIA

Finish Hardware:

Office lockset for offices

Electrical:

- General duplex receptacles
- Receptacles for workstations

Architectural Finishes:

- Floor: Carpet
- Base: 4" Resilient vinyl
- Walls: GWB; painted
- Ceiling: ACT

Data / Communication:Hardwired data outlet (2 data ports) per office

 Hardwired data outlet (2 data ports) for wireless access points

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between general classrooms and adjacent spaces: 50

Plumbing:

• N/Ă

Public Address / Clock:

- (1) Digital Clock and display screen per office.
- (1) Emergency Call Switch per office

Fire Protection / Fire Alarm:

Light-Hazard Sprinkler Coverage

Mechanical:

- Lighting:
 - 2x2 fixture dimmable LED fixtures with combination occupancy/daylight sensor (per office)



Individual climate control

Air conditioning



100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

ROOM DATA SHEETS

34. GUIDANCE SUITE

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

• N/A

Equipment/Technology included in FF&E contract: $_{\rm N/A}$

Furniture:

- (5) Office desks. With lock
- (5) Desk chairs for Guidance office
- (8) Two Desk Chairs in each office for students/ guests
- (4) Chairs in waiting room
- (1) Table for waiting room, coffee table
- (5) one bulletin board in waiting room and one in each office.

OTHER INFORMATION

NOTES:





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

34. GUIDANCE SUITE

Review Comments:

ROOM DATA SHEETS

Reviewed by:

Name, Title:

Date:





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

ROOM DATA SHEETS



GENERAL CRITERIA

Description:

Student toilet rooms to be distributed throughout the school. Airport–style open bathrooms entrances are desirable, with visible hand–washing area

Quantity: 10 total (5 Boys & 5 Girls toilet rooms)

Area/Quantities:

(4) Toilet rooms @ 230-270 SF
(4) Toilet rooms @ 235-270 SF
(7-8) Gender neutral bathrooms
Potentially sim open hand washing area.

Users:

1–4 Students Monitors as required

Adjacencies:

• (1) Boys and (1) Girls, located at intersection of grade clusters on each floor

MILLWORK / CASEWORK

N/A

SPECIALTIES

Visual Display boards / accessories: N/A

Window Treatments: N/A





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

35. STUDENT TOILET ROOMS

TECHNICAL CRITERIA

Finish Hardware:

Office lockset with vacancy indicators at doors

Electrical:

- GFCI duplex receptacles
- Power for electrical hand dryers
- Touch less flushometers hardwired

ROOM DATA SHEETS

Touch less Faucets-hardwired

Architectural Finishes:

- Floor/Base: Epoxy
- Walls: Ceramic tile (full height)
- Ceiling: ACT
- Sound Transmission Coefficient (STC) rating between Student Toilet Rooms and adjacent spaces: 53

Acoustical Requirements:

Plumbing:

- Accessible sinks with mixing valves
- Low-flush toilets with hardwired electric flushometers
- Low-flush urinals with hardwired electric flushometers
- Floor Drains
- Hose bib in lockable box with universal key

Mechanical:

- Exhaust ventilation as required
- Air conditioning

Lighting:

Recessed can LED fixtures (per toilet room) (per toilet room)

Occupancy/Motion sensor (per toilet room)

Data / Communication:

N/A

Public Address / Clock:

PA Speaker

Fire Protection / Fire Alarm:

- Light–Hazard Sprinkler Coverage
- (1) 75cd strobe









100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

35. STUDENT TOILET ROOMS

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- (2) Soap dispensers (per toilet room)
- Toilet paper dispensers (one at each toilet)
- (1) Paper towel dispenser (per toilet room)
- Built-in or free-standing waste receptacles
- Other owner-supplied accessories

Fixtures included in GC contract:

- Grab bars as required for accessibility
- Toilet partitions
- (2) Electric hand dryers (per toilet room) Low decibel high velocity hand dryer in each public toilet room

Furniture included in FF&E contract:

N/A

Equipment/Technology included in FF&E contract:

Equipment included in GC Contract:

- BMS System: Open to recommendations
- Vape sensors

OTHER INFORMATION

NOTES:

Soap dispenser, paper towel dispenser, and toilet paper dispenser furnished by owner and installed by CM.





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

ROOM DATA SHEETS

35. STUDENT TOILET ROOMS

Review Comments:

Reviewed by:

Name, Title:

Date:





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

36. PUBLIC TOILET ROOMS



GENERAL CRITERIA

Description:

Accessible toilet rooms for the public, located off of the main Lobby.

Area:

Womens @ 230 SF Mens @ 200 SF Quantity: (2)

Users:

1–4 Students or Adults Monitors as required

Adjacencies:

- (2) One Womens and one Mens @ main lobby
- Also in main admin, 4th grade wing, 5th grade wing, and gender-neutral at 7th/8th grade wing

MILLWORK / CASEWORK

N/A

SPECIALTIES

Visual Display boards / accessories: N/A

Window Treatments: N/A





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

36. PUBLIC TOILET ROOMS

TECHNICAL CRITERIA

Finish Hardware: Door Closers

Electrical:

- GFCI duplex receptacles
- Power for electrical hand dryers

Architectural Finishes:

- Floor/Base: Epoxy
- Walls: Ceramic tile (full height)
- Ceiling: ACT

Data / Communication:

N/A

Acoustical Requirements:

 Sound Transmission Coefficient (STC) rating between Public Toilet Rooms and adjacent spaces: 53

Plumbing:

- Accessible sinks with mixing valves
- Low-flush toilets with hardwired electric flushometers
- Low-flush urinals with hardwired electric flushometers
- Floor Drains
- Hose bib with lockable box and universal key

Mechanical:

Lighting:

Exhaust ventilation as required

Recessed can LED fixtures per toilet room Occupancy/Motion sensor per toilet room

Air conditioning

PA Speaker

Public Address / Clock:

Fire Protection / Fire Alarm:

- Light-Hazard Sprinkler Coverage
- (1) 75cd strobe





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

36. PUBLIC TOILET ROOMS

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- (2) Soap dispensers (per toilet room)
- Toilet paper dispensers (one at each toilet)
- (1) Paper towel dispenser (per toilet room)
- Built-in or free-standing waste receptacles

Fixtures included in GC contract:

- Grab bars as required for accessibility
- Toilet partitions
- Mirrors
- (2) Electric hand dryers (per toilet room) Low decibel high velocity hand dryer in each public toilet room

Equipment/Technology included in FF&E contract:

Equipment included in GC Contract

OTHER INFORMATION

NOTES:

Soap dispenser, paper towel dispenser, and toilet paper dispenser furnished by owner and installed by CM.





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

ROOM DATA SHEETS

36. PUBLIC TOILET ROOMS

Review Comments:

Reviewed by:

Name, Title:

Date:





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

37. CUSTODIAL & MECHANICAL



GENERAL CRITERIA

Description:

Building facilities maintenance area includes Custodian's spaces, a telecom room, receiving area and storage adjacent to mechanical and electrical spaces.

Area: 2,175 SF (Custodial & Maintenance)

- Custodian's Office @ 150 SF
- Custodian's Toilet Room
- Custodian's Workshop @ 250 SF
- Custodian's Storage @ 375 SF
- Receiving and General Supply @ 333 SF
- Storeroom @ 467 SF
- Network/Telecom Room @ 200 SF
- Mechanical Room as required
- Electric Rooms as required

Users:

(1-2) Custodians





Adjacencies:

Exterior, Mechanical room, Receiving area

Millwork/Casework:

N/A

Specialties:

Visual Display boards / accessories: (1) 8'-0" Magnetic white board

Window Treatments: N/A

Miscellaneous: Overhead door to mechanical room





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

37. CUSTODIAL & MECHANICAL

TECHNICAL CRITERIA

Finish Hardware:

- Door closers
- Exit devices
- Storeroom lockset at storage door
- Exterior hardware at exterior doors
- Office lockset at office
- Overhead doors

Architectural Finishes:

- Floor: Sealed concrete, Epoxy in toilet room, Carpet in office
- Base: 4" Resilient vinyl
- Walls: Painted GWB, CT in toilet room
- Ceiling: Exposed structure, painted
- Cleanable durable surfaces, such as ceramic tile walls

Acoustical Requirements:

Sound Transmission Coefficient (STC) rating at partitions for Mechanical Room & Custodian's Workshop: 60

Plumbing:

- (1) Accessible, unisex staff toilet room
- Floor sink in Storage rooms
- Hose bib for cleaning at storage rooms and loading dock.
- Floor drains in Mechanical room
- Water wall hydrant for cleaning

Mechanical:

Exhaust ventilation as required

Lighting:

- (21) 1x4 Utility LED fixtures
- (7) 2'x2' LED fixtures
- (8) Recessed can LED fixtures
- ON/OFF controls at the doors

Electrical:

- (8) General duplex receptacles
- (2) Quad receptacle for 2 workstations
- Exterior power receptacle near exterior door
- Charging ports and double door for ride
 on floor machines

Data / Communication:

- (2) Hardwired data ports at office
- Connections for access control at maintenance entrance

Public Address / Clock:

- (1) Digital Clock and Display Screen
- (1) PA ceiling speaker

Fire Protection / Fire Alarm:

Audiovisual devices as appropriate (TBD)





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

37. CUSTODIAL & MECHANICAL

FIXTURES, FURNITURE & EQUIPMENT

Fixtures included in FF&E contract:

- (1) Electric hand dryer (in toilet room)
- (1) Soap dispenser (in toilet room)
- (1) Toilet paper dispensers
- (1) Paper towel dispenser
- (1) Coat hook (in toilet room)
- Free-standing waste receptacle

Furniture:

- (2) Office desks
- (2) Desk chairs
- (1-2) 42" Filing cabinet in office
- (1-2) 42" File cabinets (in custodian workshop)
- (1) Workbench (in custodian workshop) Drill press, Tool box, Shelving
- Tools & Benches will come over from existing school
- Adjustable shelving units as required
- Wire Shelving in storage room
- (4) Lockers: 4 Lockers stacked, half height [locate in shop]
- 2 dumpsters (serviced by town) at loading dock

OTHER INFORMATION

Equipment/Technology included in FF&E con-

- tract: Computer equipment for systems control & alarm system in office. (BMS System)
 - Access control system at exterior doors
 - Control of Video Entrance System (IT department typically handles)
 - Video/Card reader access at loading dock is desirable
 - 1 floor scrubber on floor machines
 - Generator

At a minimum, the proposed generator should support basic heating/cooling, and functionality for the community use areas, corridors and bathrooms.

- Outdoor Equipment in Store room
 Any large maintenance equipment is stored across street at athletic complex.
 - 3–4 Snowblowers
 - Potentially smaller mower/tractor
 - •Plows & Mowers kept across the street
 - •No large equipment
- Smaller equipment stored within the building.
 - List of equipment:
 - •Small lawn mower, snow blower, weed
 - trimmer
- Chemical Distribution system

NOTES:





100 W Boylston St, Clinton, MA 01510

SCHEMATIC DESIGN

ROOM DATA SHEETS

37. CUSTODIAL & MECHANICAL

Review Comments:

Reviewed by:

Name, Title:

Date:





4.1.2 SCHEMATIC DESIGN BINDER

- M. Proposed Construction Methodology
 - 1. Construction Methodology Narrative
 - 2. OIG Notice to Proceed
 - 3. Phasing Plans

CONSTRUCTION METHODOLOGY

The Owner has had the opportunity to review both construction delivery methods available for this project (Design, Bid, Build (DBB) – Ch. 149, and CM at Risk (CMR) – Ch. 149A) and selected the CM at Risk delivery method. The Owner's Project Manager (Dore & Whittier Management Partners) provided the Owner with an in-depth review of both delivery methods and their respective advantages and disadvantages in a School Building Committee meeting on August 22,2023.

As part of the Owner's decision-making process the following advantages of CMR vs. DBB were cited:

- Knowing who you will get as your contractor (interview process)
- Opportunity for a more collaborative working relationship
- Having estimating input from the CM in advance of bidding
- Opportunity for design and value engineering input prior to bidding
- Opportunity for clash detection as part of an integrated BIM process
- Opportunity to reduce construction duration through early release packages
- Opportunity to maintain adequate safety protocols while working in a phased occupied construction project

It was also noted that DBB could be less expensive than CMR (initial bidding comparisons).

The Owner submitted an application to the Inspector General's office to pursue the CMR delivery method and received approval on November 16, 2023. A copy of the CMR application and Inspector General approval are provided below. Owner Meeting Minutes approving CMR as the preferred construction delivery method are also included in Appendix 4.1.2.19b.

The Schematic Design Estimates, proposed project schedule, estimated reimbursement rate and Total Project Budget Spreadsheet reflect the CMR delivery method.



November 16, 2023

Via Electronic Mail

Michael Ward, Town Administrator Town of Clinton 242 Church Street Clinton, MA 02510 MWard@clintonma.gov

Re: Application to Use the Construction Management At-Risk Alternative Delivery Method for the Clinton Middle School Project

Dear Mr. Ward:

On October 23, 2023, pursuant to Chapter 149A of the Massachusetts General Laws and 945 CMR 2.00, the town of Clinton (Clinton) submitted to the Office of the Inspector General (Office) an application to use the construction management at-risk (CM at-risk) alternative delivery method for the Clinton Middle School project.

Based on all the information provided, Clinton has met the statutory requirements for using the CM at-risk delivery method for the project. Accordingly, the Office is issuing this notice to proceed to use the CM at-risk delivery method as specified in M.G.L. c. 149A, §§ 1-13.

This approval is conditioned on Clinton using a CM at-risk firm that the Division of Capital Asset Management and Maintenance (DCAMM) has certified, as well as DCAMM-certified trade contractors. Therefore, Clinton must require each CM at-risk firm to supply both a certificate of eligibility and an update statement during both the prequalification phase and the technical proposal phase of the selection process. In addition, Clinton must require each trade contractor to supply a certificate of eligibility and an update statement during the prequalification phase and again at the bidding phase of the selection process. Clinton must reject as invalid all contractors' statements of qualifications, proposals and bids that do not provide such certificates of eligibility or update statements.

If, during the course of the project, Clinton changes its owner's project manager or designer, please submit information about the new project manager or designer to the Office. Also, if Clinton decides not to proceed with the CM at-risk delivery method, please notify the Office.

Additionally, as the project progresses, please provide the following information to the Office via <u>igo-chapter149A@mass.gov</u>:

- 1) Selected CM at-risk firm,
- 2) Date the initial cost-plus CM at-risk contract was signed,
- 3) Date physical on-site work started,

Michael Ward November 16, 2023 Page 2 of 2

- 4) Date the guaranteed maximum price (GMP) was set,
- 5) Percent of design document completion when the GMP was set,
- 6) Date of substantial completion, and
- 7) Final total cost of the project.

Please feel free to contact Kerri-Anne Hollingshead, Senior Policy Analyst, at <u>Kerri-Anne.Hollingshead@mass.gov</u> or 617-722-8871 or me at <u>Jeffrey.S.Shapiro@mass.gov</u> or 617-722-8806 if you have any questions or concerns regarding this building process approval.

Sincerely,

NS SAMO

Jeffrey S. Shapiro Inspector General

cc (by email):

Trip Elmore, Project Director, Dore & Whittier Elias Grijalva, Assistant Project Manager, Dore & Whittier Kerri-Anne Hollingshead, Senior Policy Analyst, Office of the Inspector General Nataliya Urciuoli, Executive Assistant to the Inspector General

OFFICE OF THE INSPECTOR GENERAL COMMONWEALTH OF MASSACHUSETTS



All construction logistics and activities to be coordinated with The Town of Clinton, the adjacent residences, and Dore + Whittier to ensure the safety of the students, staff, the public, and all construction personnel.

GENERAL NOTES





	(1) 8' Site Fence w/ Privacy Screen (6) Exis	sting Student Drop Off Loop	GI
	2 Ring Road Paved w Binder (7) Sub	ocontractor Conex Boxes	All construction
Pedestrian Traffic	3 Contractor Parking (70 Car Capacity) 8 Prin	mary Site Access Gate	Dore + Whittie
Bus Circulation	(4) FBI & Dore + Whittier Field Office (9) Eme	ergency Site Access Gate	
Parent Circulation	5 Existing Bus Loop (10 Ten	mporary ADA Sidewalk	

ENERAL NOTES

logistics and activities to be coordinated of Clinton, the adjacent residences, and er to ensure the safety of the students, staff, all construction personnel.





	(1) 8	3' Site Fence w/ Privacy Screen	6	Existing Student Drop Off Loop	GI
	2 F	Ring Road Paved w Binder	7	Subcontractor Conex Boxes	
Pedestrian Traffic	3 0	Contractor Parking (70 Car Capacity	') (8)	Primary Site Access Gate	Dore + Whittie
Bus Circulation	(4) F	BI & Dore + Whittier Field Office	9	Emergency Site Access Gate	the public, and a
Parent Circulation	(5) E	Existing Bus Loop	(10)	Temporary ADA Sidewalk	

logistics and activities to be coordinated of Clinton, the adjacent residences, and er to ensure the safety of the students, staff, all construction personnel.







	8' Site Fence w/ Privacy Screen	6	Plate Roadway as Required		/
2	Ring Road Paved w Binder	7	Subcontractor Conex Boxes		All const with The
3	Contractor Parking (70 Car Capacity)	8	Primary Site Access Gate		Dore + '
4	FBI & Dore + Whittier Field Office	9	Emergency Site Access Gate		
5	Site Utility Installation	(10)	Dumpsters) (

truction logistics and activities to be coordinated e Town of Clinton, the adjacent residences, and Whittier to ensure the safety of the students, staff, lic, and all construction personnel.

GENERAL NOTES





	(1) 8' Site Fence w/ Privacy Screen (6) Existing Student Drop Off Loop) (G
	2 Ring Road Paved w Binder 7 Patch Roadway as Required	All construction
Pedestrian Traffic	3 Contractor Parking (70 Car Capacity) 8 Primary Site Access Gate	Dore + White
Bus Circulation	(4) FBI & Dore + Whittier Field Office (9) Emergency Site Access Gate	the public, and
Parent Circulation	5 Existing Bus Loop (10) Temporary ADA Sidewalk	

GENERAL NOTES

tion logistics and activities to be coordinated wn of Clinton, the adjacent residences, and ttier to ensure the safety of the students, staff, nd all construction personnel.





/					·
	8' Site Fence w/ Privacy Screen	6	School Staff & FFE Parking	(
2	Permanent Ring Road	7	Basketball Court Complete		All wit
3	Contractor Parking	8	Primary Site Access Gate		Do
4	FBI & Dore + Whittier Field Office	9	Emergency Site Access Gate		the
5	Demolition Phase Site Access Gate	(10)	Dumpsters		

construction logistics and activities to be coordinated th The Town of Clinton, the adjacent residences, and ore + Whittier to ensure the safety of the students, staff, e public, and all construction personnel.

GENERAL NOTES




	(1) 8' Site Fence w/ Privacy Screen	6 New Student Drop Off Loop	
	2 Site Utilities & Prep for Final Paving	7 FBI & Dore + Whittier Field Office	All constructi
Pedestrian Traffic	3 School Overflow Parking	8 Primary Site Access Gate	Dore + Whit
Bus Circulation	(4) New Middle School Staff Parking	(9) Contractor Parking	
Parent Circulation	5 New Bus Loop	(10) Landscape & Hardscape Complete	

ion logistics and activities to be coordinated wn of Clinton, the adjacent residences, and ttier to ensure the safety of the students, staff, nd all construction personnel.





	(I) 8' Site Fence w/ Privacy Screen	6 New Student Drop Off Loop	
	2 Subcontractor Parking as Required	7 Primary Site Access Gate	
Pedestrian Traffic	3 Finalize Site Utility Installation	8 Finalize Soccer Field Installation	
Bus Circulation	(4) New Middle School Staff Parking	(9) Landscape & Hardscape Complete	
Parent Circulation	5 New Bus Loop		

All construction logistics and activities to be coordinated with The Town of Clinton, the adjacent residences, and Dore + Whittier to ensure the safety of the students, staff, the public, and all construction personnel.

















GENERAL NOTES

All construction logistics and activities to be coordinated with The Town of Clinton, the adjacent residences, and Dore + Whittier to ensure the safety of the students, staff, the public, and all construction personnel.

U N U **FONTAINE BROS.** CONSTRUCTION MANAGERS GENERAL CONTRACTORS CLIENT Issue December 10, 2023 PROJECT Clinton Middle School DRAWN BY Fontaine Bros. DESCRIPTION Site Logistics Plan S 12









4.1.2 SCHEMATIC DESIGN BINDER

N. District's Anticipated Reimbursement Rate

REIMBURSEMENT RATE

The Clinton District's anticipated reimbursement rate is calculated as follows:

Category	Reimbursement Points
Reimbursement Rate before Incentives	72.59%
Maintenance	1.65%
Major Reconstruction or Reno/Reuse type	0%
Energy Efficiency "Green Schools"	4.00%
Anticipated MSBA Reimbursement Rate with Incentives	78.24%

4.1.2 SCHEMATIC DESIGN BINDER

- O. Total Project Budget
 - 1. Total Project Budget Spreadsheet
 - Summary of Cost Reconciliation between Designer and OPM Cost Estimates
 - 3. Proposed Schedule of Alternates Certification

Clinton Middle School			2/21/24	DRAFT FOR Schematic Design	Enter Budget Values for Ineligible Costs in light yellow highlighted cells.			
Total Project Budget: All costs associated with the project are subject to 963 CMR 2.16(5)	Estimated Budget	Scope Items Excluded from the Estimated Basis of Maximum Facilities Grant or Otherwise Ineligible	Estimated Basis of Maximum Total Facilities Grant ¹	Estimated Maximum Total Facilities Grant ⁱ	NOTE that ineligible costs can not exceed Estimated Budget Cost for any individual line item, distribute across multiple lines if needed.	ate Revised: December prates revisions to MSBA tober 25, 2023 MSBA B	2023 's project funding limits policy oard of Directors Meeting.	r, which was appro
Peasibility Study Agreement	\$200 600	¢0	\$200,600		Catagory	Estimated Budget	Evoluded Costs	Eligible
A&E Feasibility Study	\$290,800	\$0	\$290,800		Administration:	\$4,462,000	\$1 412 600	
Environmental & Site	\$70,000	\$0	\$70,000		A/E Services:	\$12,675,000	\$4,220,000	\$1
Other	\$39,400	\$0	\$39,400		Site Acquisition: Inelig	ible, therefore not include	d in calculation	
Feasibility Study Agreement Subtotal	\$1,000,000	\$0	\$1,000,000	\$782,400	Miscellaneous Project Costs:	\$850,000	\$250,000	
Administration					FFE:	\$2,700,000	\$360,000	\$2
Legal Fees	\$30,000	\$30,000	\$0	\$0	Owners Contingency: Not ir	icluded in this calculation	Total Elizible Soft Coate =	¢1.
Design Development	\$392.000	\$0	\$392.000	Cell C13 - Scope Excluded OPM Fee	s (Cell	in the second second	Total Eligible Soft Costs -	φ14
Construction Contract Documents	\$562,000	\$43,457	\$518,543	-140)	truction Costs associated with Soft Cos	t Cap Calculation		
Bidding	\$181,000	\$0	\$181,000	Cell C15 - Costs beyond MSBA fund	ing cap Category	Estimated Budget	1	
Construction Contract Administration	\$2,400,000	\$1,289,143	\$1,110,857	for OPM Basic Services (Cell K48)	CM Pre-Construction Services:	\$273,000		
Closeout	\$125,000	\$0	\$125,000		Construction Cost:	\$114,295,892		
Extra Services	\$U \$0	\$0	\$0		Total Construction Contingency: Not in			
Cost Estimates	\$40.000	\$0	\$40.000		Soft Cost Allowance:	20%		
Advertising	\$2,000	\$0	\$2,000		Reimbursable Soft Cost:	\$22,913,778		
Permitting	\$0	\$0	\$0		Eligible minus Reimbursable =	-\$8,469,378 If	>0 enter into Cell C116	
Owner's Insurance	\$350,000	\$0	\$350,000		-If Eligible minus Reimbursable is negative; OK	·		
Other Administrative Costs	\$50,000	\$50,000	\$0		-If Eligible minus Reimbursable is positive ente	r value into "Soft Costs tha	at exceed 20% of Constructio	on Cost"
Administration Subtotal	\$4,132,000	\$1,412,600	\$2,719,400	\$2,127,659	below in the ineligible column.			
Architecture and Engineering Basic Services				Cell C28 - Scope excluded Designe	Scope Excluded OPM & Designer Costs ass	opiated with Second Excl	uded Building Costs	
Design Development	\$3 600 000	\$916 300	\$2 683 700	Fees (Cell 141)	Scope Excluded OF M & Designer Costs ass	cluded Aud/PE (GSE)	1 500	(1 1000%
Construction Contract Documents	\$3,800,000	\$128 700	\$2,083,700		Scope L	Total (GSF):	136,000	(1.1000%
Bidding	\$200,000	\$0	\$200,000	Cell C30 - Costs beyond MSBA		Estimated Budget	Excluded (%)	Scope Exclu
Construction Contract Administration	\$3,175,000	\$3,175,000	\$0	funding cap for Designer Basic	OPM Basic Services:	\$3,950,600	1.1000%	
Closeout	\$150,000	\$0	\$150,000	Services (Cell K52)	Designer Basic Services:	\$11,700,000	1.1000%	
Other Basic Services	\$0	\$0	\$0					
Basic Services Subtotal	\$11,100,000	\$4,220,000	\$6,880,000		Scope Excluded OPM & Designer Costs ass	ociated with Scope Excl	uded Site Work	
Construction Testing TED	\$200.000	02	\$200.000		Scope Excluded Direct	Construction Cost (\$):	\$84 046 467	(0.0000%
Printing (over minimum)	\$200,000	\$0	\$200,000		Total Direct	Estimated Budget	Fxcluded (%)	Scope Exclu
Other Reimbursable Costs	\$5,000	\$0	\$5,000		OPM Basic Services:	\$3,950,600	0.0000%	
Hazardous Materials	\$300,000	\$0	\$300,000		Designer Basic Services:	\$11,700,000	0.0000%	
Geotechnical & Geo-Environmental	\$250,000	\$0	\$250,000					
Site Survey	\$80,000	\$0	\$80,000			Total Scop	e Excluded OPM Fees (\$):	
Wetlands	\$0	\$0	\$0			Total Scope E	xcluded Designer Fees (\$):	
Architectural / Engineering Subtotal	\$80,000	\$0	\$00,000	86 000 38	Ineligible Fees associated with OPM (3.5%)	& Designer (10%) Eee Ca	IDC .	
CM at Disk Pre-Construction Services	\$12,005,000	\$4,220,000	\$7,785,000	\$0,030,38-	Inteligible rees associated with Or M (3.5%)	Unner imit	\$74.800.000	136.000
Pre-Construction Services	\$273.000	\$0	\$273,000	\$213,595	5	Construction Budget:	\$114,295,892	100,000
Site Acquisition					Basis of OPN	& Designer Fee Caps:	\$74,800,000	
Land / Building Purchase	\$0	\$0	\$0		OPM Ser	vices Estimated Budget	Ineligible Costs	Elig
Appraisal Fees	\$C	\$0	\$0		Basic Services:	\$3,950,600	\$1,332,600	\$3
Recording fees	\$1	\$0	\$0		Extra Services:	\$79,400	\$0	
Site Acquisition Subiotal	\$0	\$0	\$0	\$0	Decigner Ser	ions Estimated Budget	Ingligible Costs	Flig
SUBSTRUCTURE					Basic Services		\$4 220 000	<u>_ II</u>
Foundations	\$2,869,461				Extra Services:	\$975.000	φ 4 ,220,000 \$0	Ψ
Basement Construction	\$1,303,725	5					· · · ·	
SHELL					Ineligible Building Area	Ineligible NSF	Ineligible Aud/PE GSF	Other Ineligible
Super Structure	\$7,609,135	5			Core Academic:	500		
Exterior Closure	\$0				Special Education:			
Exterior Walls	\$6,345,675	5			Art & Music:	500		
Exterior Doors	\$206.850				Chanter 74 CTF	-		
Roofing	\$3,898.551				Health & Physical Education:	1,000	1,500	
INTERIORS		· · · · · · · · · · · · · · · · · · ·			Media Center:	-		
Interior Construction	\$7,052,681				Auditorium / Drama:		-	
Staircases	\$361,000				Dining & Food Service:	1,000		
Interior Finishes	\$5,100,455	2			Medical:	-		
SERVICES Conveying Systems	\$216.000				Auministration & Guidance:			
Plumbing	\$4 151 000				Oustodial & Maintenance			
HVAC	\$11.875.640)				Total:	1.500	
Fire Protection	\$1,108,276	3			Oitaa Eitaa	4.50	.,	
Electrical	\$8,253,469	•			Grossing Factor:	1.50		
EQUIPMENT & FURNISHINGS	A1.000							
Equipment	\$1,089,150				Mark Up Ratio	A444 005 005	10	
	\$2,218,708				Construction Budget	\$114,295,892	1.359913106	= Mark Up R
Special Construction	¢r	12				φ0 4 ,040,40/		
Existing Building Demolition	\$1,375,000	\$0			Demolition and Abatement Costs			
In-Building Hazardous Material Abatement	\$1,515,000	\$0			Total Demolition	and Abatement Costs:	\$3,310,000	
Asbestos Containing Floor Material / Ceiling Tile Abatement	\$420,000	\$420,000			Ineligible Demolition	and Abatement Costs:	-\$420,000	
Other Hazardous Material Abatement	\$0	\$0			Eligible Demolition	and Abatement Costs:	\$2,890,000	
BUILDING SHE WORK					Mar	Reg up Eligible Costs:	\$3 930 149	

pproved at					
ole Soft Costs					
\$3,049,400					
\$0,400,000					
\$600.000					
\$2,340,000					
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\$43,457					
\$128,700					
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00%) ccluded Costs \$0 \$0 \$0 \$0 000 Eligible Costs \$0 \$49,000	Enter in Cell C13 Enter in Cell C28 \$ OPM Value @ 3.	550 /sf	<u>Value > 3.5%</u>		
00%) ccluded Costs \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Enter in Cell C13 Enter in Cell C28 \$ <u>OPM Value @ 3.</u> \$2,618	550 /sf	Value > 3.5%		
00%) ccluded Costs \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Enter in Cell C13 Enter in Cell C28 \$ OPM Value @ 3. \$2,618	550 /sf 50% 000	<u>Value > 3.5%</u> \$C nter into Cell C15		
00%) ccluded Costs \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Enter in Cell C13 Enter in Cell C28 OPM Value @ 3. \$2,618 Designer Value @ 10.1	550 /sf 50% 000 f >0.e	Value > 3.5% \$C nter into Cell C15 Value > 10%		
00%) ccluded Costs \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Enter in Cell C13 Enter in Cell C28 OPM Value @ 3. \$2,618 Designer Value @ 10. \$7,480	550 /sf 50% 000 lf >0 e 00% 000	<u>Value > 3.5%</u> \$0 nter into Cell C15 <u>Value > 10%</u> \$0		
00%) ccluded Costs \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Enter in Cell C13 Enter in Cell C28 OPM Value @ 3. \$2,618 Designer Value @ 10. \$7,480	550 /sf 50% 000	Value > 3.5% \$C nter into Cell C15 Value > 10% \$C nter into Cell C30		
00%) ccluded Costs \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Enter in Cell C13 Enter in Cell C28 OPM Value @ 3. \$2,618 Designer Value @ 10. \$7,480	550 /sf 50% 000 1f >0 e	Value > 3.5% \$0 nter into Cell C15 Value > 10% \$0 nter into Cell C30		
00%) ccluded Costs \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Enter in Cell C13 Enter in Cell C28 OPM Value @ 3. \$2,618 Designer Value @ 10. \$7,480 Estimated District Con	550 /sf 50% 000 	Value > 3.5% \$C nter into Cell C15 Value > 10% \$C nter into Cell C3C		
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00%) ccluded Costs \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Enter in Cell C13 Enter in Cell C28 OPM Value @ 3. \$2,618 Designer Value @ 10. \$7,480 Estimated District Cos \$630	550 /sf 50% 000 If >0 e 00% 000 If >0 e st 308 \$0	<u>Value > 3.5%</u> \$0 nter into Cell C15 <u>Value > 10%</u> \$0 nter into Cell C30		
00%) ccluded Costs \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Enter in Cell C13 Enter in Cell C28 OPM Value @ 3. \$2,618 Designer Value @ 10. \$7,480 Estimated District Cos \$630	550 /sf 50% 000 If >0 e 00% 000 If >0 e st 308 \$0 308 \$0	Value > 3.5% \$0 nter into Cell C15 Value > 10% \$0 nter into Cell C30		
00%) cicluded Costs \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Enter in Cell C13 Enter in Cell C28 OPM Value @ 3. \$2,618 Designer Value @ 10. \$7,480 Estimated District Cos \$630 \$630	550 /sf 50% 000 If >0 e 1f >0 e 1f >0 e 1f >0 e 1f >0 e 1f >0 e	Value > 3.5% \$0 nter into Cell C15 Value > 10% \$0 nter into Cell C30	2	
00%) ccluded Costs \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Enter in Cell C13 Enter in Cell C28 OPM Value @ 3. \$2,618 Designer Value @ 10. \$7,480 Estimated District Cos \$630 \$630	5550 /sf 50% 0000 1f >0 e 1f >0 e	Value > 3.5% \$C nter into Cell C15 Value > 10% \$C nter into Cell C30		
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00%) ccluded Costs \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Enter in Cell C13 Enter in Cell C28 <u>OPM Value @ 3.</u> \$2,618 <u>Designer Value @ 10.</u> \$7,480 <u>Estimated District Cos</u> \$630 \$630 \$1,260 \$1,260 \$1,260	550 /sf 50% 50% 50% 5000 1f >0 e 50% 500 1f >0 e 50 50 50 50 50 50 50 50 50 50	Value > 3.5% \$C nter into Cell C15 Value > 10% \$C nter into Cell C30		
10%) ccluded Costs \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0	Enter in Cell C13 Enter in Cell C28 <u>OPM Value @ 3.</u> \$2,618 <u>Designer Value @ 10.</u> \$7,480 <u>Estimated District Cos</u> \$630 \$1,260 \$1,260 \$1,260	550 /sf 50% 50% 50% 5000 1f >0 e 50 50 50 50 50 50 50 50 50 50	Value > 3.5% \$C nter into Cell C15 Value > 10% \$C nter into Cell C3C		

Ratio

Site Prenaration	\$3 332 708	02								
Site Improvements	\$7,480,351	\$0			Eligible Site Work Cost					
Site Civil / Mechanical Utilities	\$3,189,146	\$0	Cell C86 - Scope Excluded Sitewo	ork	Tota	al Direct Site Work Costs:	\$15,265,737			
Site Electrical Utilities	\$1,263,532	\$0	Costs such as a stadium, out		Ir	neligible Site Work Costs:	\$0	131,500 I	Eligible Building GSF	
Scope Excluded Site Work	\$0	\$0	buildings, concession stand etc.		Potentially Eligibl	le Direct Site Work Costs:	\$15,265,737	\$55	Site Work Cost Limit (\$/sf) i	ncludes Mark Up
Construction Trades Subtotal	\$84,046,467	\$420,000		No.	Potentially Eligible Ma	rked Up Site Work Costs:	\$20,760,076	\$7,232,500	Site Work Cost Allowance inc	ludes Mark Up
Contingencies (Design and Pricing)	\$8,404,647	\$42,000				Marked Up	Eligible Site Work Costs:	\$7,232,500		
D/B/B Insurance	\$1,239,665 \$0	\$6,195			Construction Costs and Funding Can				Ineligible Cost Breakdown	
General Conditions	\$4,764,608	\$23,810			T	otal Building Area (GSF):	136.000	Sec. Sec.	Scope Excluded Site Work:	\$0
D/B/B Overhead & Profit - GR's	\$4,425,600	\$22,116	3		Ineligible Excess Au	ditorium/PE Areas (GSF):	-1,500	Site Work	Cost beyond Funding Limit:	\$13,527,576
GMP Insurance - GL, BRI, PL,WC	\$2,405,250	\$12,020			Other Ineligit	ole Building Areas (GSF):	-3,000	In	eligible Demo & Abatement:	\$571,164
GMP Fee	\$2,285,918	\$11,423		Cell C98 - Represents constructio	1	Eligible Building GSF:	131,500	Sco	pe Excluded Aud/PE Areas:	\$1,260,615
GMP Contingency	\$1,680,929	\$8,400		Costs over MSBA funding limits	Building C	ost Funding Limit (\$/sf):	\$550	Oth	er Ineligible Building Areas:	\$2,521,231
	\$5,042,766	\$25,200				Eligible Building Costs:	\$72,325,000	Construct	tion Cost over Funding Cap:	\$12,927,657
Construction Cost over Funding Cap		\$30,237,079			Eligible Demol	ition & Abatement Costs:	+ \$3,930,149			
Construction Budget	\$114,295,892	\$30,808,243	\$83,487,649	\$65,320,73	7 Basis	of Construction Costs:	\$83,487,649	C	onstruction Cost Breakdow	n
Alternates		and the second				Construction Budget:	\$114,295,892	Тс	otal Construction Cost (\$/sf):	\$840
Ineligible Work Included in the Base Project	\$0	\$0	\$0		Bas	sis of Construction Costs:	-\$83,487,649	Reimbursa	ble Construction Cost (\$/sf):	\$635
Alternates Included in the Total Project Budget	\$0	\$0	\$0		Ineli	gible Construction Costs:	\$30,808,243	Mark	ked Up Building Costs (\$/sf):	\$655
Alternates Excluded from the Total Project Budget	\$1,579,565		\$1,579,565		Construction	Cost over Funding Cap:	\$0	Marked Up Site, Building	Takedown & Haz Mat (\$/sf):	\$186
Subtotal to be included in Total Project Budget	\$0	\$0	\$0	\$	0	f >	0 enter value into Cell C98		Direct Building Cost (\$/sf):	\$530
Utility Company Fees	\$300.000	\$0	\$300,000	Cell C112 - Represents the amou	Int FF&F Reimbursement					
Testing Services	\$300,000	\$0	\$300,000	exceeding the \$1,200 per studen		700 F	nter Eligible Enrollment			
Swing Space / Modulars	\$0	\$0	\$0	allowance for FF&E (Cell J109)		Funding Limit	Estimated Budget	Eligible Costs	Ineliaible Costs	
Other Project Costs (Mailing & Moving)	\$250,000	\$250,000	\$0		Furniture, Fixtures & Equipment:	\$1,200/student	\$1,500,000	\$840,000	\$0	If >0 enter in Cell C112
Miscellaneous Project Costs Subtotal	\$850,000	\$250,000	\$600,000	/ \$469,44	0 Technology:	\$1,200/student	\$1,200,000	\$840,000	\$0	If >0 enter in Cell C113
Fumishings and Equipment			\$660,000							
Furniture, Fixtures, and Equipment	\$1,500,000		\$840,000		Incentive Points					
	\$1,200,000	\$360,000	\$840,000		1.65 (0-2	!) Maintenance				
FF&E Sublotai	\$2,700,000	\$360,000	\$2,340,000	\$1,830,81	6	Newly Fernand Destanal C	al District			
Soft Costs that exceed 20% of Construction Cost		\$0	\$0			b) Newly Formed Regional So	eno/Reuse type in rounded	to 2 decimal places		
Project Budget	\$135,255,892	\$37.050.843	\$98.205.049	\$76.835.63	Cell C113 - Represents the amount exceeding		enonteuse type in founded			
				Ţ, 0,000,00	the \$1,200 per student allowance for	#DIVIO:	0 gsf	Renovated or		
Descrit Authorization		72.50	Baimburgamant Bata Bafa	ra Anntina Bainta	Technology (Cell J110)				If Cell G117 > 0	
Board Authorization	700	72.39	Rembursement Rate Belo				0 gsf	Total at Conclusion	enter value into Cell F110	
Design Enrollment	700	5.65	lotal Incentive Points	20% of the const	nuction cost (Cell			of Project		
Total Building Gross Floor Area (GSF)	136,000	78.24%	MSBA Reimbursement Rat	te G21)	0.00 (0-1) Overly Zoning 40R and 40	IS			
Total Project Budget (excluding Contingencies)	\$135,255,892	NOTES			0.00 (0-0	.5) Overlay Zoning 100 unit	s or 50% of units 1,2, or 3 fa	mily structures		
Scope Items Excluded or Otherwise Ineligible	- \$37.050.843	This template was prepared by	y the MSBA as a tool to assist Dist	ricts and consultants in	4 00 (0-4) Energy Efficiency - "Green	Schools"			
Third Party Funding (Inclinible)	- \$0	understanding MSBA policies	and practices regarding potential in of Total Facilities Grant and potential in	mpact on the MSBA's		, Energy Enclosed of Cool		0		
	¢00.005.040	Grant. This template does not	t contain a final, exhaustive list of a	all evaluations which the				Owne	rs Contingency Cap: 0.50%	
Estimated Basis of Maximum Total Facilities Grant	\$98,205,049	MSBA may use in determining	whether items are eligible for reim	bursement by the MSBA.	5.65 Tota	al Incentive Points		Constructio	on Contingency Cap: 1.00%	
Reimbursement Rate ¹	78.24%	The MSBA will perform an inde	ependent analysis based on a revi	iew of information and						
Est. Max. Total Facilities Grant (before recovery) ¹	\$76,835,630	with the estimates generated b	by the District using this template.	c that may of may not agree	Commissioning (Cx) Costs associated with	Ineligible Building Area				
Cx Costs associated with Ineligible Building Area ²	- \$4,140	5	,		Building GSF:	136 000	- Area			
Cost Receivery associated with Brier Broisete ²	- \$0	1 - The Estimated Basis of Tota	al Facilities Grant and Estimated N	Maximum Facilities Grant	Cy Eco por GSE:	\$0.02				
Cost Recovery associated with Phor Projects	¢70.004.400	and audit by the MSBA.	otentially eligible contingency fund	s and are subject to review	Cx Fee per GSF.	\$0.92				
Estimated Maximum Total Facilities Grant	\$76,831,490	,,			Ineligible GSF:	4,500				
	n Maral I. and S. Sanahara and S	2 - Costs associated with the c	commissioning of ineligible building	g area is estimated to result in	Ineligible Cx Costs:	\$4,140 lf	>0 enter in Cell B128			
Construction Contingency ³	\$3,000,000	recovery of a portion of the	The proposed demolition of the	e Clinton Middle School is	Com	missioning Fee Schedule	1			
Ineligible Construction Contingency ³	\$1.857.041	expected to result in the MSBA	A recovering a portion of state fund	ds previously paid to the						
"Potentially Eligible" Construction Contingency ³	\$1 142 959	District for the proj	ject at the existing facilities comple	eted in The MSBA will	Cost Possyany associated with Brier Brain					
	¢1,142,000	perform an independent analy estimates provided by the Dist	rist based on a review of its records	s and information and	Cost Recovery associated with Filor Floje			Enter Data Assume 15th of		
Owner's Contingency"	\$1,000,000	with the estimated cost recover	erv generated by the District and its	s consultants using this	Prior Project ID Number:			August if new school opens in		
Ineligible Owner's Contingency ³	\$428,521	template.	, ,	5	Prior Project Total Grant:			September. For example if		
"Potentially Eligible" Owner's Contingency ³	\$571,479	2. Burguent to Section 2.21 of	f the Droject Funding Agreement o	and the explicable policies	Propose School Opens:			turnover is June, new school w	vill	
Total Potentially Eligible Contingency ³	\$1,714,438	and guidelines of the Authority	any project costs associated with	the reallocation or transfer	Prior Project Substantial Completion	-		students.	· Y	
	70 040/	of funds from either the Owner	r's contingency or the Construction	n contingency to other budget				11.11.1		
Reimbursement Rate	/ 0.24 /0	line items shall be subject to re	view by the Authority to determine	e whether any such costs are	Beneficial use (years):	0.00		a second a second second second second		
Potential Additional Contingency Grant Funds ³	\$1,341,376	MSBA	ne Authority. All costs are subject	to review and audit by the	Unused Years:	20.00		Enter Date. If only month is		
Maximum Total Facilities Grant	\$78,172,866				Unused Years as % of 20:	100.00%		known, assume 15th of the		
Total Project Budget	\$139,255,892				Prior Project Cost Recovery:	\$0 If	>0 enter in Cell B128			
					,,,,,,.					
By signing this Total Project Budget, I hereby certify that I have read and understand the form and further certify, to the best of my knowledge and belief, that the information supplied by the	dget, I hereby erstand the form f my knowledge supplied by the	By signing this Total Project Bud hereby certify that I have read a understand the form and furthe the best of my knowledge and t the information supplied by the	dget, I and By signing this Total r certify, to certify that I have re- belief, that form and further cer District in knowledge and beli	I Project Budget, I hereby ad and understand the tify, to the best of my ef, that the information						

District in the table above istrue, accurate, and complete. 4

By: Chris McGown Title: Chair of School Building Committee Date: 2/21/2024 By: Michael Ward Title: Chief Executive Officer Date: 2/21/2024

District in the table above is true, accurate, and complete. Auchalyon

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By: Steven Meyer Title: Superintendent of Schools Date: 2/21/2024

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By: Brendan Bailey Title: Chair of the School Committee Date: 2/21/2024



SUMMARY OF COST RECONCILIATION

Estimates for the project were compiled by A.M. Fogarty & Associates, Inc., collaborating as part of the Lamoureux Pagano Associates | Architects, and Fontaine Bros. Both estimating teams received comprehensive materials from the Designer and had full access to the building, site, scoping narratives, and committee minutes as necessary. On February 2nd, 2024, the entire project team convened to reconcile disparities between the two estimates. This reconciliation session led to a consensus on the overall project scope and projected cost.

The two independent estimates were reconciled to within a margin of less than 0.5% of each other: A.M. Fogarty & Associates at \$113,738,176 and Fontaine Bros. Construction at \$114,298,940, with a difference of \$560,764 between the two construction estimates. These cost estimates are detailed in section 4.1.2, labeled P and Q.

Initial reconciled estimates indicated that both estimators slightly exceeded the budget. Consequently, the team identified several Value Engineering options to stay within budget. Ultimately, a reduction in Landscaping Plantings was recommended as a Value Engineering measure. This proposal was presented to the SBC and was approved during the PBC/SBC Meeting on February 20th, 2024. The Total Project Budget is based on the reconciled estimates, incorporating the Value Engineering adjustment.

Clinton Middle School - Schematic Design Estimate - Cost Comparison Sheet

	CSI Division		Cost/SF		Total Amount	A.M. Fogarty		Variance
02-0000	EXISTING CONDITIONS & DEMO	136,000 sf	24.36 /sf	\$	3,312,500	\$ 3,105,000	\$	207,500
03-0000	CONCRETE	136,000 sf	28.23 /sf	\$	3,839,756	\$ 3,351,159	\$	488,597
04-0000	MASONRY	136,000 sf	20.30 /sf	\$	2,760,148	\$ 2,156,931	\$	603,217
05-0000	METALS	136,000 sf	52.63 /sf	\$	7,157,300	\$ 7,267,076	\$	{109,776}
06-0000	ROUGH CARPENTRY	136,000 sf	3.44 /sf	\$	467,755	\$ 613,151	\$	{145,396}
06-2000	FINISH CARPENTRY	136,000 sf	2.82 /sf	\$	383,468	\$ 527,058	\$	{143,590}
07-0000	THERMAL & MOIST PROTECT	136,000 sf	17.86 /sf	\$	2,429,580	\$ 2,692,642	\$	{263,062}
07-5000	ROOFING	136,000 sf	19.26 /sf	\$	2,620,000	\$ 2,945,469	\$	{325,469}
07-8000	FIREPROOFING / CAULKING	136,000 sf	3.39 /sf	\$	460,800	\$ 1,109,634	\$	(648,834)
08-0000	DOORS & WINDOWS	136,000 sf	31.67 /sf	5	4,307,740	\$ 3,876,471	\$	431,269
09-0000	FINISHES	136,000 sf	73.32 /sf	\$	9,970,859	\$ 10,121,941	\$	(151,082)
10-0000	SPECIALTIES	136,000 sf	7.21 /sf	\$	980,010	\$ 1,098,340	\$	{118,330}
11-0000	EQUIPMENT	136,000 sf	8.15 /sf	\$	1,108,150	\$ 1,525,536	\$	(417,386)
12-0000	FURNISHINGS	136,000 sf	15.62 /sf	\$	2,123,980	\$ 1,880,655	\$	243,325
14-0000	CONVEYING SYSTEMS	136,000 st	1.58 /sf	\$	215,000	\$ 170,000	\$	45,000
21-0000	FIRE SUPRESSION	136,000 sf	8.15 /sf	\$	1,108,276	\$ 1,052,800	\$	55,476
22-0000	PLUMBING	136,000 sf	27.98 /sf	\$	3,805,057	\$ 3,984,580	\$	(179,513)
23-0000	HVAC	136,000 sf	87.32 /sf	\$	11,875,640	\$ 12,310,034	\$	{434,394}
26-0000	ELECTRICAL	136,000 sf	60.58 /sf	\$	8,239,469	\$ 9,023,162	\$	(783,693)
27-0000	COMMUNICATIONS	136,000 sf	0.00 /sf		Inc. Abbove	Inc. Abbove		
28-0000	ELECTRONIC SAFETY & SECURITY	136,000 sf	0.00 /sf		Inc. Abbove	Inc. Abbove		
31-0000	EARTHWORK	136,000 sf	31.30 /sf	\$	4,257,390	\$ 3,835,102	\$	422,288
32-0000	EXTERIOR IMPROVEMENTS	136,000 sf	59.17 /sf	\$	8,046,851	\$ 6,412,573	\$	1,634,278
33-0000	UTILITIES	136,000 sf	32.74 /sf	\$	4,452,679	\$ 4,003,878	\$	448,801
			Total Direct Cost	\$	84,048,967	\$ 83,063,190	\$	985,777
		Desi	ign Contingency	\$	8,404,897	\$ 8,306,319	\$	98,578
			Escalation	\$	5,042,938	\$ 5,482,171	ŝ	(439,233)
I		Constructi	ion Contingency	\$	1,680,979	\$ 1,827,390	\$	(146,411)
I		Subcontractor De	efault Insurance	\$	1,239,722	\$ 1,233,488	ŝ	6,234
I		Projec	t Requirements	\$	4,425,600	\$ 4,425,600	\$	-
I			GC's & GR's	\$	7,169,858	\$ 7,169,858	\$	-
			CM Fee	\$	2,285,979	\$ 2,230,160	\$	55,819
		ŀ	Project Toal	\$	114,298,940	5 113,738,176	\$	560,764

		FOGARTY	
\$	917,900.00		
\$	1,016,119.00	739,657.00	276,462.00
And a	S S	\$ 917,900.00 \$ 1,016,119.00	FOGARTY \$ 917,900.00 \$ 1,016,119.00 739,657.00

	FONTAINE BROS., INC.									
			CLINTON MS - SCH	EMATIC VALUE ENGINEERING	5 LOG - 02.12.202	4				
		L.a.	Estimated Direct Cost	Estimated Total Cost	Projected Va	lues (Accepted)			Deferred	Notes
Item #	Category	Item	Savings	Savings (20% Markup)	Tier 1	Tier 2	Accepted	Alternates	/Rejected	Notes
1	Landscape	Landscape planting reductions (30%)	\$ 266,000	\$ 319,200	Accepted		In SD			
2	Thermal	Delete underslab rigid insulation except within 4 feet of foundation walls.	\$ 250,000	\$ 300,000)					Carrying under entire slab (86,570 sf)
3	AV	Reduce Cafeteria Stage AV System to "basic" system (\$25k allowance)	\$ 50,000	\$ 60,000)					\$75k allowance now
4	Equipment	Reduce Playground Equipment Allowance to \$300K	\$ 100,000	\$ 120,000						Carrying \$400K allowance
5	AV	Reduce qty. (from 10 to 5) of Digital Screens/Signage in the Building	\$ 50,000	\$ 60,000						Carrying 10 @ \$10k ea
	-	sub total	\$ 716,000	\$ 859,200)					
		Potential Additional VE Items								
6	Site	Consider substituting 6" granite curb for 5" granite curb	\$ 43,500	\$ 52,200)					
7	Electrical	If possible, consider deletion of Cell Amplification System	\$ 100,000	\$ 120,000)					
8	Electrical	If possible, consider deletion of Environmental Sensors	\$ 68,000	\$ 81,600)					
9	Mechanical	Review/reduce scope of lab waste system	TBD							
10	Roof	Consider substituting EPDM Roof in lieu of PVC	S 126,000	\$ 151,200)					
11	Finishes	Consider restroom wall tile at wet walls only (~30% reduction)	S 30,000	\$ 36,000)		L	L		
12	Finishes	Consider exposed certifies at all storage and BOH spaces (3,000 sf)	S 20,250	\$ 24,300)		I	L		
13	rinishes	Consider reduction of corridors wall the from 7 tail to 4 wathscot	5 100,000	\$ 120,000	2		l	L	L	
		sub total	5 487,750	\$ 585,300	2					
		Overall Total	\$ 1,203,750	\$ 1,444,500						

Clinton Middle School

Proposed Schedule of Alternates

Eligibility for Reimbursement	To Be Completed by MSBA	To Be Completed by MSBA	To Be Completed by MSBA	To Be Completed by MSBA	
District Rationale	Would allow for a total of 500KW Solar on the site, an additional 100KW from the parking lot.	Long term community benefit to have a low maintanence, non-degrading playing surface on the campus.			
Alternates Excluded From the Total Project Budget that are to be funded through Bid Savings	\$749,735	\$829,830			\$1,579,565
Ineligible Work & Alternates to be included in District's Total Project Budget					\$
Description of Item	Solar Panel Canopies	Atrtificial Turf Field			Total

By signing this Total Project Budget, I hereby supplied by the District in the table above is certify that I have read and understand the knowledge and belief, that the information form and further certify, to the best of my true, accurate, and complete

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By signing this Total Project Budget, I hereby supplied by the District in the table above is certify that I have read and understand the knowledge and belief, that the information form and further certify, to the best of my true, accurate, and complete

By:

Title: Chair of the School Building Committee Title: Chief Executive Officer

2.21,2024 Date:

2121.2024 Date:

Title: Superintendent of Schools By:

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By: Shrichan

nool Committee Title: Chair of the By:

1207

Date:

2.21.2024

Date:

DRAFT

4.1.2 SCHEMATIC DESIGN BINDER

P. Designer Construction Cost Estimate



"Construction Cost Consultants"

Schematic Design Clinton Middle School Clinton, MA MSBA Project #202002640010 8-Feb-24

Drawings Dated 1/12/2024:

Designer: Lamoureux Pagano Associates | Architects

NEW BUILDING				\$66,155,221
SITEWORK				\$13,802,969
BUILDING DEMOLITION	130,000	GSF	\$9.00	\$1,170,000
HAZARDOUS WASTE REMOVAL	2/7/2023 U	JEC Estimate		\$1,935,000
TOTAL DIRECT COST (escalated to a	the mid point of cor	nstruction)		\$83,063,190
Design Bid Build, Ch. 149:		100/		\$0.20 (2 10
DESIGN CONTINGENCY		10%		\$8,306,319
ESCALATION (arring 2025)		2%0 60/		\$1,827,390 \$5,492,171
ESCALATION (spring 2025)		0%		\$5,482,171
SDI		1.25%		\$1.233.488
GENERAL CONDITIONS		FONTAINE		\$7,169,858
PROJECT REQUIREMENTS				\$4,425,600
BUILDING PERMIT		waived		
BOND AND GL INSURANCE		FONTAINE		INC.
PROFIT		2.00%		\$2,230,160
T C	COTAL CONSTRU COST PER S.F.	CTION COST		\$113,738,177 \$836.31
ALTERNATES:				
ALTERNATE NO. 1 - IN LIEU OF N. ARTIFICIAL TURF	ATURAL GRASS	SUBSTITUTE		\$801,454
PV PANLES T	BD			

Project: Location: Client: Date:	Clinton Middle School Clinton, MA Lamoureux Pagano Associates Architects 08-Feb-24	N COST	Ο. OF SQ. FT.: Γ PER SQ. FT.:	136,000 \$587.93
	CSI SUMMARY	NEW	MIDDLE SCHO	<u>OL</u>
		DIVISION TOTAL	PERCENT OF PROJECT	COST PER SF
DIVISION 02	- EXISTING CONDITIONS	0	0%	0.00
024100 DEMC	STOS ABATEMENT	0	0%	0.00
DIVISION 03	- CONCRETE	0	40 /	
033000 CAST	IN PLACE CONCRETE	3,351,159	4%	24.64 0.00
DIVISION 04 040001 MASO	- MASONRY NRY*	0 2,156,931	3%	0.00
DIVISION 05	5 - METALS	0		0.00
050001 MISCH	ELLANEOUS & ORNAMENTAL IRON*	1,177,725	1%	8.66
051200 STRU	DECKING	5,184,798 904,553	0% 1%	58.12 6.65
054000 COLD	FORMED METAL FRAMING	0	0%	0.00
DIVISION 04	WOOD DIASTICS & COMPOSITES	0		0.00
061000 ROUG	H CARPENTRY	613 151	1%	0.00 4 51
062000 FINISI	H CARPENTRY	527,058	1%	3.88
064000 ARCH	ITECTURAL CASEWORK	1,770,576	2%	13.02
DIVISION 07	THEDMAL & MOISTUDE DOOTECTION	0		0.00
070001 DAMP	PROOF., WATERPROOF. & CAULKING*	697.156	1%	5.13
070002 ROOF	ING AND FLASHING*	2,945,469	4%	21.66
071326 AIR &	VAPOR BARRIERS	0	0%	0.00
072100 THER	MAL INSULATION	858,922	1%	6.32
072713 MEME	R RETARDERS BRANE AIR BARRIERS	0	0%	0.00
074000 WALL	PANELS & TRIM	ů 0	0%	0.00
074243 COMP	OSITE WALL PANELS	1,833,720	2%	13.48
075500 ROOF	ACCESSORIES	0	0%	0.00
078100 APPLI	ED FIREPROOFING MESCENT EIDEDDOOEING	412,478	1%	3.03
079500 EXPA	NSION CONTROL	0	0%	0.00
				0.00
DIVISION 08	- OPENINGS	0	• • /	0.00
080001 META	L WINDOWS*	2,727,149	3%	20.05
080002 GLAS	OW METAL WORK	200,150	0%	2.12
081416 FLUSH	H WOOD DOORS	220,700	0%	1.62
082500 DOOR	OPENING ASSEMBLIES	9,200	0%	0.07
083100 ACCE	SS DOORS AND PANELS	0	0%	0.00
083300 SECTI	UNAL OVERHEAD DOORS	0	0%	0.00
083323 SPECI	AL DOORS	66 500	U%0 0%	0.00
084110 ALUM	I FRAMED ENTRANCES & STOREFRONT	00,500	0%	0.00
084410 GLAZ	ED ALUM CURTAIN WALLS	0	0%	0.00
086300 SKYL	IGHTS	0	0%	0.00
087100 FINISI	H HARDWARE	322,900	0%	2.37

		DIVISION	PERCENT	COST
Clinton Middle School - Schematic Estimate	CSI SUMMARY	TOTAL	OF PROJECT	PER SF
AND VENTS		0	00/	0.00
089000 LOUVERS AND VENTS	ΓC	0	0%	0.00
089200 LOUVERED EQUIPMENT ENCLOSUR	ES	0	0%	0.00
DIVISION AS FINISHES				0.00
DIVISION U9 - FINISHES		1 421 770	20/	0.00
090002 TILE*		1,431,//8	2% 10/	10.53
090005 DESILIENT EL CODINC*		1,180,005	1 %0 1 0/	8.72
000007 DAINTINC*		014,279 440 176	1 70 1 0/	2.99
000561 MOSITUDE VADOD EMISSION CONTI	DOI	440,170	170	5.24
090501 MOSTURE VAPOR EMISSION CONTI	KOL	5 121 770	070	0.43
092110 GTPSUM WALLBUARD		3,131,770	070	2 20
094000 TERRAZZO FLOOR		290,703	070	2.20
095000 WOOD ATHLETIC FLOOK		167,100	070	1.50
007700 FIREDCIASS DEINE WALL DANELS		45,102	070	0.33
007500 DESINOUS ELOODING		281.681	070	0.00
006812 TH E CADDETING		201,001	070	2.07
090015 TILE CARFETING		246 000	070	0.00
098400 ACOUSTIC ROOM COMPONENTS		240,990	070	1.62
DIVISION 10 - SPECIAL TIES		0		0.00
101116 MARKERBOARDS		314 850	0%	2 32
101153 RECESSED DISPLAY ENCLOSURES		39 250	0%	0.29
101400 SIGNAGE		127 475	0%	0.27
101453 TRAFFIC SIGNAGE		15,000	0%	0.11
101463 ELECTRONIC MESSAGE SIGNAGE		35,000	0%	0.11
102114 HDPF FABRICATIONS		55,000	0%	0.20
102123 CUBICI E CURTAINS AND TRACK		89 495	0%	0.00
102123 WIRE MESH PARTITIONS		0,479	0%	0.00
102228 FOLDING PANEL PARTITIONS		63 360	0%	0.00
102813 TOILET ACCESSORIES		107 390	0%	0.79
104000 SAFETY SPECIALTIES		33 425	0%	0.75
105113 METAL LOCKERS		240.595	0%	1.77
107413 EXTERIOR CLOCKS		0	0%	0.00
107500 FLAGPOLES		0	0%	0.00
109000 MISCELLANEOUS SPECIALTIES		32,500	0%	0.24
		,		0.00
DIVISION 11 - EQUIPMENT		0	0%	0.00
111300 LOADING DOCK EQUIPMENT		2,500	0%	0.02
111320 PROJECTION SCREENS		82,500	0%	0.61
113100 APPLIANCES		15,500	0%	0.11
114000 FOOD SERVICE EQUIPMENT		650,000	1%	4.78
115300 LABORATORY EQUIPMENT		35,600	0%	0.26
116143 STAGE CURTAINS		40,000	0%	0.29
116623 GYMNASIUM EQUIPMENT		131,500	0%	0.97
116624 BASKETBALL GYM EQUIPMENT		61,200	0%	0.45
116643 SCOREBOARDS		30,000	0%	0.22
116653 GYMNASIUM DIVIDERS		36,036	0%	0.26
116813 PLAYGROUND EQUIPMENT		400,000	1%	2.94
116833 ATHLETIC FIELD EQUIPMENT		36,700	0%	0.27
119513 KILNS		4,000	0%	0.03
119000 MISC. EQUIPMENT		0	0%	0.00
				0.00
DIVISION 12 - FURNISHINGS		0		0.00
122413 WINDOW TREATMENTS		95,649	0%	0.70
123553 CASEWORK		0	0%	0.00
124813 MATS		14,430	0%	0.11
126100 FIXED AUDIENCE SEATING		0	0%	0.00
129000 MISC. FURNISHINGS		0	0%	0.00
				0.00

DIVISION 13 - SPECIAL CONSTRUCTION 139000 SPECIAL CONSTRUCTION	0 0	0%	$\begin{array}{c} 0.00\\ 0.00\end{array}$
DIVISION 14 - CONVEYING EQUIPMENT 140001 ELEVATORS & LIFTS*	0 170.000	0%	0.00 0.00 1.25
DIVISION 21 - FIRE SUPPRESSION	0		0.00
210001 FIRE SUPPRESSION*	1,052,800	1%	7.74 0.00
		PERCENT	COST
Clinton Middle School - Schematic Estimate		OF PROJECT	PER SF
DIVISION 22 - PLUMBING 220001 PLUMBING*	0 3,984,580	5%	0.00 29.30
DIVISION 23 - HVAC	0		0.00
230001 HVAC*	12,310,034	15%	90.51 0.00
DIVISION 26 - ELECTRICAL	0		0.00
260001 ELECTRICAL*	9,023,162	11%	66.35
DIVISION 31 - EARTHWORK	0		
310000 EARTHWORK	3,249,604	4%	23.89
311000 SITE PREPARATION & CLEARING	585,498	1%	4.31
512500 EROSION CONTROL	0	070	0.00
DIVISION 32 - EXTERIOR IMPROVEMENTS	0		0.00
321000 PAVEMENT, CURBING & EDGING	2,681,689	3%	19.72
323100 SITE IMPROVEMENTS	1,484,946	2%	10.92
328000 IRRIGATION	306,113	0%	2.25
329000 LANDSCAPING	1,939,825	2%	14.26 0.00
DIVISION 33 - UTILITIES	0		0.00
330000 UTILITIES SUB-TOTAL	4,003,878	5%	29.44
DIRECT COST	79,958,190	100%	587.93
*DENOTES FILED SUB-BID			

PROJECT:	Clinton Middle School
LOCATION:	Clinton, MA
CLIENT:	Lamoureux Pagano Associates Architects
DATE:	08-Feb-24

NO. OF SQ. FT.:	136,000
COST PER SQ. FT.:	\$587.93
*Noted GSF	

NEW MIDDLE SCHOOL

No.: 23022

SUMMARY

		PERCENT	COST
	TOTAL	OF PROJECT	PER SF
A. SUBSTRUCTURE			
A10 - FOUNDATIONS			
A1010 STANDARD FOUNDATIONS	2,973,237	4%	21.86
A1020 SPECIAL FOUNDATIONS	0	0%	0.00
A1030 SLAB ON GRADE	1,724,439	2%	12.68
A20 - BASEMENT CONSTRUCTION			
A2010 BASEMENT EXCAVATION	0	0%	0.00
A2020 BASEMENT WALLS	0	0%	0.00
B. SHELL			
B10 - SUPERSTRUCTURE			
B1010 FLOOR CONSTRUCTION	3,221,082	4%	23.68
B1020 ROOF CONSTRUCTION	3,865,200	5%	28.42
B20 - EXTERIOR ENCLOSURE			
B2010 EXTERIOR WALLS	6,066,390	8%	44.61
B2020 EXTERIOR WINDOWS	1,853,642	2%	13.63
B2030 EXTERIOR DOORS	171,079	0%	1.26
B30 - ROOFING	,		
B3010 ROOF COVERINGS	3,780,378	5%	27.80
B3020 ROOF OPENINGS	50.000	0%	0.37
C. INTERIORS	,		
C10 - INTERIOR CONSTRUCTION			
C1010 PARTITIONS	4,705,010	6%	34.60
C1020 INTERIOR DOORS	1.230.649	2%	9.05
C1030 FITTINGS	1.510.738	2%	11.11
C20 - STAIRS			
C2010 STAIR CONSTRUCTION	389.500	0%	2.86
C2020 STAIR FINISHES	83.548	0%	0.61
C30 - INTERIOR FINISHES		•••	
C3010 WALL FINISHES	2.411.164	3%	17.73
C3020 FLOOR FINISHES	1 643 327	2%	12.08
C3030 CEILING FINISHES	1 549 393	2%	11 39
D SERVICES	1,0 19,090	270	11.57
D10 - CONVEYING			
D1010 FLEVATORS & LIFTS	179.000	0%	1 32
D1010 ESCALATORS & MOVING WALKS	0	0%	0.00
D1090 OTHER CONVEYING SYSTEMS	Ő	0%	0.00
D20 - PLUMBING	0	070	0.00
D2010 PLUMBING	3 984 580	50/_	20 30
	5,904,500	570	29.30

Clinton Middle School - Schematic		PERCENT	COST
	TOTAL	OF PROJECT	PER SF
D30 - HVAC			
D3010 HVAC	12 310 034	15%	90.51
D40 - FIRE PROTECTION	12,510,054	1570	70.51
D40 - TIKE TKOTECTION	1 052 800	10/2	7 74
D4010 STANDPIPES	1,052,000	170	0.00
D4020 STANDINES	0	0%	0.00
D4000 OTHER FIRE PROTECTION SVSTEMS	0	0%	0.00
D50 - FI FCTRICAL	0	070	0.00
D5010 FLECTRICAL SERVICE & DISTRIBUTION	8 405 721	11%	61.81
D5020 LIGHTING & BRANCH WIRING	0,405,721	0%	0.00
D5020 COMMUNICATION & SECURITY	0	0%	0.00
D5000 OTHER ELECTRICAL SYSTEMS	0	0%	0.00
F FOLIDMENT & FURNISHINGS	0	070	0.00
F10 - FOLUPMENT			
F1010 COMMERCIAL FOLUPMENT	650,000	1%	4 78
E1010 COMMERCIAL EQUILIMENT	0.50,000	170	0.00
E1020 INSTITUTIONAL EQUITIMENT	0	0%	0.00
E1000 OTHER EQUIPMENT	138 836	1%	3 23
F20 - FURNISHINGS	+30,030	1 /0	5.25
E 2010 FIXED FURNISHINGS	1 905 475	2%	14.01
F_{2010} MOVABLE FURNISHINGS	1,705,475	270	0.00
F SPECIAL CONSTRUCTION & DEMOLITION	0	070	0.00
F10 - SPECIAL CONSTRUCTION			
F1010 SPECIAL STRUCTURES	0	0%	0.00
F1020 INTEGRATED CONSTRUCTION	0	0%	0.00
F1020 INTEGRATED CONSTRUCTION	0	0%	0.00
F1040 SPECIAL FACILITIES	0	0%	0.00
F1050 SPECIAL CONTROLS & INSTRUMENTATION	0	0%	0.00
F_{20} - SELECTIVE BUILDING DEMOLITION	0	070	0.00
F2010 BUILDING ELEMENTS DEMOLITION	0	0%	0.00
F2020 HAZARDOUS COMPONENTS ARATEMENT	0	0%	0.00
G BUILDING SITEWORK	0	070	0.00
G10 - SITE PREPARATION			
G1010 SITE CLEADING	585 /08	10/2	1 31
G1070 SITE DEMOLITION & DELOCATIONS	565,498	170	4.51
C1020 SITE DEMOLITION & RELOCATIONS C1020 SITE EADTHWODE	1 560 003	070 204	0.00
C1030 SITE EARTHWORK C1040 HAZADDOUG WASTE DEMEDIATION	1,309,093	270 00/	0.00
C20 SITE IMDOVEMENTS	0	070	0.00
$O_2O - SITE INFROVEMENTS$	1 020 145	20%	1/18
G2010 ROAD WATS G2020 DADKING LOTS	1,929,143	270	14.10
C2020 DEDECTDIAN DAVING	767 511	U 70 10/	5.00
O2030 FEDESI NIAN FAVINO C2040 SITE DEVELODMENT	707,344	170	3.04 15.22
C2050 LANDSCADING	2,004,433	5% 20/	13.33
02030 LANDSCAPING	2,245,937	3%0	10.51

Clinton Middle School - Schematic		PERCENT	COST
_TO	TAL	OF PROJECT	PER SF
G30 - SITE MECHANICAL UTILITIES			
G3010 WATER SUPPLY 298	3,074	0%	2.19
G3020 SANITARY SEWER 173	3,320	0%	1.27
G3030 STORM SEWER 1,226	5,942	2%	9.02
G3040 HEATING DISTRIBUTION	0	0%	0.00
G3050 COOLING DISTRIBUTION	0	0%	0.00
G3060 FUEL DISTRIBUTION 1,941	,500	2%	14.28
G3090 OTHER SITE MECHANICAL UTILITIES	0	0%	0.00
G40 - SITE ELECTRICAL UTILITIES			
G4010 ELECTRICAL DISTRIBUTION 662	2,956	1%	4.87
G4020 SITE LIGHTING 318	3,527	0%	2.34
G4030 SITE COMMUNICATIONS & SECURITY	0	0%	0.00
G4090 OTHER SITE ELECTRICAL UTILITIES	0	0%	0.00
G90 - OTHER SITE CONSTRUCTION			
G9010 SERVICE AND PEDESTRIAN TUNNELS	0	0%	0.00
G9090 OTHER SITE SYSTEMS	0	0%	0.00
TOTAL DIRECT COST 79,958	3,190	100%	587.93

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
A. SUBSTRUCTURE				
A10 - FOUNDATIONS				
A1010 STANDARD FOUNDATIONS				
033000 CAST IN PLACE CONCRETE				
Column Footing (242 ea): 4,000 psi, NW, (incl. placement) Formwork Rebar *unit cost \$749.44	443 8,346 33,225	CY SFCA LBS	328.00 16.00 1.60	145,304 133,536 53,160
Perim Wall Footing (3' 2" x 1'-0" 1,248 lf 1/S4.1): 4,000 psi, NW, (incl. placement) Formwork Rebar *unit cost \$721.53	146 2,496 10,950	CY SFCA LBS	328.00 16.00 1.60	47,888 39,936 17,520
Gym CMU Shear Wall Footing (2' x 1'-0" 247 lf): 4,000 psi, NW, (incl. placement) Formwork Rebar *unit cost \$875.24	18.5 494 1,388	CY SFCA LBS	328.00 16.00 1.60	6,068 7,904 2,220
Tie Beam @ Int. Brace Frame - (2'-3" x 1'd - 902 lf): 4,000 psi, NW, (incl. placement) Formwork Rebar *unit cost \$1,116.55 *Includes platform Wall FTG	71 1,804 6,745	1804 SFCA LBS	350.00 24.00 1.65	24,850 43,296 11,129
Perim Foundation Wall 18" x 4' deep (1,624 lf 1/S4.1): 4,000 psi, NW, (incl. placement) Formwork Brick Shelf/stem wall Reinforcing steel *unit cost \$1,600.49	360 12,992 1,624 54,000	CY SFCA LF LBS	350.00 25.00 24.00 1.60	126,000 324,800 38,976 86,400
Platform FND Wall - (1'x 3'D - 228 lf): 3000 psi, NW, (incl. placement) Formwork Rebar *unit cost \$1,820.03	25 1,368 2,375	CY SFCA LBS	350.00 24.00 1.65	8,750 32,832 3,919
Pilaster - ext wall Pier - int col ftg (2'x2'x2'H 169 ea) Anchor bolts and grouting Int Mechanical pads Int Acid Waste Pit 18" Elevator mat Elev sump pit 12" Elevator pit wall 5'H Loading dock wall	$ \begin{array}{r} 10 \\ 50 \\ 256 \\ 1 \\ 1 \\ 7 \\ 1 \\ 7 \\ 1 \\ 7 \end{array} $	CY CY EA LS CY EA CY W/G2040	$\begin{array}{c} 1,100.00\\ 1,100.00\\ 235.00\\ 5,000.00\\ 5,000.00\\ 750.00\\ 850.00\\ 1,250.00\end{array}$	$11,000 \\ 55,000 \\ 60,160 \\ 5,000 \\ 5,000 \\ 5,250 \\ 850 \\ 8,750$

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Concrete Protection and Clean up and Mobilization Winter conditions	1 1	LS LS	125,000.00 100,000.00	125,000 100,000
072100 THERMAL INSULATION				
(A6.1):				
FND shelf insul.	C 100	W/ B2010	4.05	25.020
2" Rigid ext. face fnd insul 2" Rigid int. face fnd insul	6,400 6,400	SF	4.05	25,920 25,920
070001 DAMPPROOF., WATERPROOF. & CAULKING*	-			
Ext Foundation dampproofing	6,400	SF	2.10	13,440
Foundation Waterproofing		N/A		
Elev. pit waterproofing	1	EA	8,250.00	8,250
310000 EARTHWORK				
Building Earthwork (FFE @ 377'):				
Building Cut (top soil cut carried w/ G10 Sitework)	72	CY	10.00	720
Load and Haul spoil	72	CY	10.00	720
Soli Disposal - unlined local disposal	115	TUNS	25.00 48.00	2,880
Building excavation	6.500	CY	12.75	82,875
Building Backfill - existing	6,500	CY	12.75	82,875
Over excavate Unsuitable Soil - 6' avg depth:				
Excavate Unsuitable mat'l	21,417	CY	10.00	214,170
Stockpile for site	10,708	CY	6.00	64,248
Structural Fill	10,708	SF	15.00	160,620
Proof roll	96,618	SF	0.50	48,309
Drainage System (A6.1 Not Shown):				
Under slab 4" Perf Drain		nic		
Perim fnd drain		nic		
SUB-IOTAL				2,973,237
A1030 SLAB ON GRADE				
310000 EARTHWORK				
12" Gravel base @ SOG	3,251	СҮ	62.00	201,562
Excavate plumbing trenches	87,792	GSF	1.25	109,740
033000 CAST IN PLACE CONCRETE				
5" SOG-per (4" per outline)				
4,000 psi, NW, (incl. placement)	1,327	CY	350.00	464,450
WWF 6x6 W2.9xW2.9	85,323	SF	2.65	226,106
Depressed slab edge	2,088 450		2.00	14,789
Trowel Finish	85.323	SF	2.38	203.069
*unit cost \$10.68	,		0	, ~

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Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Stegro vapor barrier (15 mil 0726000) Ramp slab premium Thicken slab -allow Expansion joint assembly (2 loc)	85,323 252 30 225	SF SF CY LF	1.04 20.00 350.00 75.00	88,736 5,040 10,500 16,875
Ext SOG: Entry stoop w/ reinf edge(9/S4.1 14 loc) Loading dock slab(per arch. plan)	470	SF W/G2040	45.00	21,150
072100 THERMAL INSULATION				
2" Rigid Slab Insul - 100%	87,792	SF	4.10	359,947
SUB-TOTAL				1,724,439
TOTAL A10 FOUNDATIONS				4,697,676
B. SHELL				
B1010 FLOOR CONSTRUCTION				
051200 STRUCTURAL STEEL				
Floor Structural Steel (15 lbs/sf @ 54,056 sf)	398.1	TONS	5,350.00	2,130,036
Miscellaneous: Shear stud (25/100 sf) Moment Conn - allow Expansion joint assembly (0795000 2 loc)	13,271 50 194	EA EA LF	5.65 825.00 225.00	74,981 41,250 43,650
033000 CAST IN PLACE CONCRETE				
7 1/2" - NW Deck fill (6x6 w2.9xw2.9) Rebar premium - column and perim	53,085 50,385	SF SF	9.85 1.00	522,887 50,385
053100 STEEL DECKING				
3" x 18 Ga. Comp Floor Deck	53,085	SF	5.80	307,893
078100 APPLIED FIREPROOFING				
Floor: Intumescent (078123)	1	LS	50,000.00	50,000
SUB-TOTAL				3,221,082

B1020 ROOF CONSTRUCTION

033000 CAST IN PLACE CONCRETE

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Roof Top Equip - Allow(S3.5):		~~		
6" NW Deck fill (6x6 w2.9xw2.9) (<i>a</i>) RTU Conc. curb perim HVAC unit (8"Wx12"H)	2,993 731	SF LF	12.00 115.00	35,916 84,065
051200 STRUCTURAL STEEL				
Roof Frame Structural Steel -12 lbs/sf	427.5	TONS	5,350.00	2,287,286
Roof Frame Structural Steel Care -12 lbs/sf	44.4	TONS	5,350.00	237,540
Shear stud (25/100 sf)	748	EA	5.75	4,301
Moment Conn - allow	50	EA	825.00	41,250
Lobby skylight frame (50 lbs/ 78 LF)	2.0	TONS	5,450.00 5,450.00	96,765 10,628
Galv Stl Frame @ Roof Equip Screen(055000spec):	1 71	SE	6 000 00	10 260
Music Kin Kool Screen - 6 high $(a, 542 \text{ st} (5/\text{A}5.5)$	1./1	51	0,000.00	10,200
053100 STEEL DECKING	(2) 0 (2)			
$1 \frac{1}{2}$ x 20 ga Roof deck typ	68,262	SF	5.60	382,267
3" 20/20 Acoustical roof deck - Café	2,993	SF SF	5.95 14.20	91 505
3" 20/20 Acoustical roof deck - Gym	7,400	SF	14.20	105,080
3" 20/20 Acoustical roof deck - Café Platform		NIC		,
061000 ROUGH CARPENTRY		N/A		
078100 APPLIED FIREPROOFING				
Roof:				
Fireproofing (078400)	68,262	SF	3.35	228,678
Intumescent (0/8123)	1	LS	25,000.00	25,000
SUB-TOTAL				3,865,200
TOTAL B10 SUPERSTRUCTURE				7,086,282
B20 - EXTERIOR ENCLOSURE				
B2010 EXTERIOR WALLS				
<u>040001 MASONRY*</u>				
Exterior Mock-up - all trades	1	LS	75,000.00	75,000
CMU Back-up		N/A		
Exterior Masonry Veneer :	1 410	1.5	105.00	176 050
Concrete faced perim panel (<i>a</i> / FND shelf 14" h (034500) Brick veneer	1,410	LF SF	125.00	1/6,250
Premium Detailing @ Roof Edge Brick	55,725	TBD	т0.23	1,507,051
Architectural Precast Concrete(034500)		N/A		
GFRC rainscreen panel(034900)		W / 074243		

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
5" Mineral wool S.S. Masonry flashing Staging	2,400	W/ DIV 7 LF inc. w/ unit	24.00	57,600
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Galv. loose lintel	755	LF	48.00	36,240
OH door frame Alum wall mtd roof access ladder (EA)	1 1	W / B3020	750.00	750
092116 GYPSUM WALLBOARD				
Light Gauge Wall Framing(054000 A6.1-6.3): 8" x 16 Ga. stud @ typ wall 6" x 16 Ga. stud @ Skylight Curb/ Wall 6" x 16 Ga. stud @ parapet 4" x 16 Ga. stud @ main entry canopy fascia 43"H 4" x 16 Ga. stud @small canopy fascia 33"H 4" x 16 Ga. stud @ Canopy CLG	42,455 3,478 3,551 101 327 546	SF SF SF SF SF SF	20.00 25.00 16.00 16.00 16.00 16.00	849,100 86,950 56,816 1,616 5,232 8,736
5/8" Ext gyp sheathing @(0616000 A6.1-6.3): Typ wall Canopy fascia Parapet backside Canopy CLG	49,484 428 3,551 546	SF SF SF SF	4.15 5.00 5.00 5.00	205,359 2,140 17,755 2,730
Int. 5/8" FR Gyp Finish	45,933	SF	4.25	195,215
070001 DAMPPROOF., WATERPROOF. & CAULKING*				
Misc Ext Wall Control joints(079201) Expansion joint assembly (0795000 2 loc)	1 60	LS LF	25,000.00 32.00	25,000 1,920
 (A6.1) Vapor Permeable Liquid Applied Air Barrier (a): Ext gyp sheathing - wall /parapet face Skylight Curb/ Wall Parapet backside Water Resistive Barrier (Black) 	42,455 W / Roo W / Roo W /	SF ofing assembly ofing assembly 5" min. wool ?	9.00	382,095
072100 THERMAL INSULATION				
 (A6.1-6.3)Exterior Wall: 6" R-15 XPS @ FND shelf 14"H 5" Mineral wool Mineral wool batt cavity wall R-22.5 @ 8" Stud Mineral wool batt cavity wall R-22.5 @ 6" Stud 6" Closed cell spray parapet / skylight base 3 1/2" Rigid - parapet cap roof edge Spray insul @ perim deck flute 	1,410 49,484 42,455 3,132 3,897 W / R 1	LF SF SF SF SF SF LS	24.00 4.80 2.85 2.85 5.35 25,000.00	33,840 237,523 120,997 8,926 20,849 25,000
074243 COMPOSITE WALL PANELS				
(A6.1)Exterior Wall: GFRC rainscreen panel-flush GFRC rainscreen panel-flare	10,874 1,046	SF SF	$140.00 \\ 140.00$	1,522,360 146,440

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Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
*Thermally isolated façade attachment sys Wall cladding @ Skylight Curb/ Wall High parapet backside		W / Unit Cost W / B30 W / B30		
Canopies: GFRC rainscreen fascia panel-main entry 43"H GFRC rainscreen fascia panel-small canopy 33"H GFRC soffit sys	101 327 750	SF SF SF	$140.00 \\ 140.00 \\ 140.00$	14,140 45,780 105,000
090007 PAINTING*				
Misc. ext. painting	1	LS	10,000.00	10,000
<u>101400 SIGNAGE</u>				
Misc ext signage *includes entry signage (3 loc)	1	LS	20,000.00	20,000
SUB-TOTAL				6,066,390
B2020 EXTERIOR WINDOWS				
061000 ROUGH CARPENTRY				
P.T. blocking 2x8- perim ext wind open.	4,475	LF	14.50	64,888
070001 DAMPPROOF., WATERPROOF. & CAULKING*				
Exterior sealants - perim. ext wind open. Flex flashing - perim ext wind open.	4,475 4,475	LF LF	15.50 12.25	69,363 54,819
080001 METAL WINDOWS*				
Ext. Alum Frame, Glass & Glazing(Triple-Pane IGU): Curtain Wall 8" Cafe sun shade	3,556 600	SF SF	225.00 125.00	800,100 75,000
Premium @ Ext Alum CW: Bullet proof main entry	207	SF	75.00	15,525
Alum Window Punch Openings(A6.1 Triple-Pane IGU): W(4'x6'8" 46ea) W(5'x6' 4 ea) W(5'x6'8" 22 ea) W(8'x6'8" 43 ea) W(12'x2'6" 4 ea) W(22'x3'10" 1 ea)	1,227 120 733 2,293 120 84	SF SF SF SF SF	$ 168.00 \\ $	206,136 20,160 123,144 385,224 20,160 14,112
Premium @ Ext Alum Window: Bullet Proof (gen office only W 5'x6'8" lea)	33.5	SF	75.00	2,513
Fiberglass Sandwich Panel (084513) Roof Skylights (086300)		N/A W / B30		
074000 WALL PANELS & TRIM		N/A		

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
109000 MISCELLANEOUS SPECIALTIES				
Alum louvers -allow	20	SF	125.00	2,500
SUB-TOTAL				1,853,642
B2030 EXTERIOR DOORS				
061000 ROUGH CARPENTRY				
P.T perim blocking HM open	192	LF	13.25	2,544
070001 DAMPPROOF., WATERPROOF. & CAULKING*				
Exterior sealants - perim. HM/OH open Adhered membrane - perim. HM/OH open	220 220	LF LF	15.50 13.00	3,410 2,860
080001 METAL WINDOWS*				
Alum. Door, Frame, Glass, Glazing & Hardware: Entry - dbl (6' x 7') Entry - dbl (6' x 8' 6") Café - dbl (6' x7') Media Center - sgl (3' x7')	4 2 2 1	EA EA EA EA	13,000.00 15,000.00 13,000.00 6,800.00	52,000 30,000 26,000 6,800
Premium w/Safety Glazing @ inside Face : Entry - dbl (6' x7')	2	EA	1,200.00	2,400
081113 HOLLOW METALWORK				
Ext. HM Frame: Single Door 7'H Double Door 7'H	6 3	EA EA	360.00 385.00	2,160 1,155
7'H Insulated HM Doors : Receiving - sgl Music Rm - sgl Science Class Rm - sgl MEP Rm - sgl Stair hall B - dbl Shop - dbl Storage - dbl Roof - sgl	1 1 1 1 1 1 2	EA EA EA EA EA EA EA	$\begin{array}{c} 725.00\\ 1,100.00\\ 1,100.00\\ 650.00\\ 1,650.00\\ 1,650.00\\ 1,300.00\\ 850.00\end{array}$	725 1,100 1,100 650 1,650 1,650 1,300 1,700
082500 DOOR OPENING ASSEMBLIES				
Receiving Overhead Door 8' x 10'	1	EA	9,200.00	9,200
087100 FINISH HARDWARE				
Entry auto opener	1	LOC	9,000.00	9,000
Exterior Hardware Set @ HM Door: Receiving - sgl	1	EA	1,500.00	1,500

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Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Music Rm - sgl	1	EA	1,500.00	1,500
Science Class Rm - sgl	1	EA	1,500.00	1,500
MEP Rm - sgl	1	EA	775.00	775
Stair hall B - dbl	1	EA	1,500.00	1,500
Shop - dbl	l 1	EA	1,500.00	1,500
Roof - sgl	2	EA EA	1,000.00	2,000
090007 PAINTING*				
Exterior Doors:	,		• • • • • •	
Paint HM door & Frame - sgl	6	EA	200.00	1,200
Paint HM door & Frame - dbl	3	EA	400.00	1,200
SUB-TOTAL				171,079
TOTAL B20 - EXTERIOR ENCLOSURE				8,091,111
B30 - ROOFING				
B3010 ROOF COVERINGS				
061000 ROUGH CARPENTRY				
Blocking & Ply @:				
Base flashing(A6.1-6.3)	870	LF	18.00	15,660
Parapet Cap/ root Edge (A6.1-6.3)	2,413		25.00	60,325
Canopy fool edge(Ab.1-b.2) Canopy base flashing(Ab.1-b.2)	14/		25.00	3,6/5
Canopy base nashing(A0.1-0.2) Skylight curb	769		18.00	34,605
Mech equip curbs - allow	1	LI LS	20,000.00	20,000
070002 ROOFING AND FLASHING*				
Typ Roof (A3.9) :				
PVC Roofing	84,711	SF	12.50	1,058,888
5/8" Cover board	84,711	SF	2.60	220,249
Rigid insul(R-40) 100%	84,/11	SF	9.25	/83,5//
Cont. air & vapor barrier	1 84 711	LS SF	23,000.00	190,600
5/8" Substrate board	84 711	SF	2.23	220 249
Membrane Flashing	84.711	SF	1.00	84.711
Flash roof drain w/ OF	43	EA	125.00	5,375
Walkway pads-allow	5,000	SF	6.00	30,000
Small Canopy (R-2A-T 5 LOC) :	200	OF.	10 50	4.050
FVC Kooting 5/8" Cover board	388	SF	12.50	4,850
Taper rigid insul(min)	200 288	5F SF	2.00	1,009
Cont. air & vapor barrier	388	SF	2.00	873
5/8" Substrate board	388	SF	2.60	1,009
Flash roof drain	5	EA	125.00	625
Membrane Flashing	388	SF	1.00	388

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Flashing(A6.1- A6.3):				
Base flashing(A6.1-6.3)	870	LF	24.50	21,315
Alum. Parapet cap/ roof Edge (A6.1-6.3)	2,413	LF	45.00	108,585
Alum. Canopy roof edge(A6.1-6.2)	147	LF	24.00	3,528
Canopy base flashing(A6.1-6.2)	167	LF	24.50	4,092
Low parapet membrane(A6.1-6.3)	1,970	LF	10.00	19,700
3' High parapet wall membrane	576	SF	12.00	6,912
5' High parapet wall membrane	1,005	SF	12.00	12,060
Stain Hall sources through more at	25		30.00	/50
Starr Hall scupper through parapet	300		1,000.00	10,500
Misc. Flashing	1	LI	25.000.00	25.000
	-	20		_0,000
Glazed Skylight Curb/ Wall :	2 479	CE	12.00	41 726
Can flashing	3,478 760		12.00	41,/30
Cap nashing	709	Lr	55.00	20,915
Roof Accessories(077200):				• • • • • •
Alum wall mtd roof access ladder (3 EA)	44	VLF	550.00	24,200
Roof crossover stairs & ramps(spec)		TBD		
Heat & smoke vent(spec)		IBD		
080001 METAL WINDOWS*				
Glazed Skylight- Complete (084413):				
Lobby (170' 4" x 13'W 1 LOC)	2,214	SF	175.00	387,450
Class Corridor(25' x 12' 8"W 2 LOC)	634	SF	175.00	110,863
Class Corridor(29' x 12' 8"W 2 LOC)	735	SF	175.00	128,625
Class Corridor(24' 6" x 16' 6"W 1 LOC)	404	SF	1/5.00	/0,/00
SUB-TOTAL				3,780,378
B3020 ROOF OPENINGS				
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Alum wall mtd roof access ladder (3 EA)		W / 070002		
Fall protection guardrail		NIC		
Galv RTU platform grating & stair(spec)	1	LS	50,000.00	50,000
Down spout boot (spec)		N/A		
SUB-TOTAL				50,000
				2 020 270
TUTAL BOU KUUFINU				3,830,378

C. INTERIORS

C10 - INTERIOR CONSTRUCTION

C1010 PARTITIONS

040001 MASONRY*

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
CMU Partition: M6A - 6" CMU M8A - 8" CMU Elev Shaft 30' M8A - 8" CMU Gym 15'h M12A - 12" CMU Gym 15'h *Excludes GF CMU	1,077 382 5,160	N/A SF SF SF	42.00 38.00 42.50	45,234 14,516 219,300
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
CMU Partition: Angle brace frame - 4' 0C Loose lintels	105 52	EA LF	235.00 45.00	24,675 2,340
Support frame @ Op l part	44	LF	200.00	8,800
061000 ROUGH CARPENTRY				
Interior blocking Misc. rough carpentry Carpentry laborer - clean up	136,000 136,000 1	GSF GSF LS	0.65 0.50 250,000.00	88,400 68,000 250,000
Allow Plywood Backer Bd Premium @: Elec rms 8'H	128	SF	16.00	2,048
070001 DAMPPROOF., WATERPROOF. & CAULKING*				
Int joint sealants	136,000	GSF	1.00	136,000
078100 APPLIED FIREPROOFING				
Firestopping	136,000	GSF	0.80	108,800
081113 HOLLOW METALWORK				
Int H.M. Sidelight and Transom Frame		W / C1020		
Vestibule Security Window w/ pass thru complete		N/A		
080001 METAL WINDOWS*				
Int Alum CW / Storefront Frame, Glass & Glazing-Allow: Vestibule - Lobby 9' 6"H Vestibule - Main office 9' 6"H Lobby - Main office 9' 6"H Staff dinning 7'H Staff dinning 9' 6"H Café 22' 3"H Media Center 9' 6"H Stair Hall Vestibule Stair Hall	68 45 121 81 126 617 110	SF SF SF SF SF SF NIC NIC	125.00 125.00 125.00 125.00 125.00 125.00 125.00	8,500 5,625 15,125 10,063 15,750 77,125 13,750
Premium @ Int Alum SF: Bullet proof main entry vestibule 092116 GYPSUM WALLBOARD	113	SF	350.00	39,550

Clinton Middle School - Schematic 2/8/20				
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Drywall Partitions (NIC cement & ply Backer Bd)-Allow:				
Music class	5.230	SF	23.15	121.075
Gvm UL	5,162	SF	18.15	93,690
Gym UL chase(gyn 1 side)	382	SF	18.15	6,933
Corridor & Stair Hall	62 722	SF	20.65	1 295 209
Class / Admin Separation	31 819	SF	20.05	657.062
Mech / Flec rm	7 960	SF	20.05	184 274
Turnical	24 731	SF	18 15	104,274
Typical Even It chose (oven 1 side)	0.420	SF	16.15	140,000
Class HVAC abase(gyp 1 side)	9,420 7,660	SF	13.90	149,770
Dlumb (atmost chase(gyp 1 side)	10.086	SF	13.40	102,044
Fumb./struct chase(gyp 1 side)	10,080	SF SE	15.40	155,152
Furr/chase w/ gyp (a) CMU	5/15	SF	9.25	34,304
Shalt wall-allow	1,500	SF	26.00	39,000
vestibule wall bullet resis premallow	1		25,000.00	25,000
Abuse Resistant premium	126.000	LS	25,000.00	25,000
Misc Drywall Assemblies	136,000	GSF	1.25	170,000
*Partitions include sound attenuation, tape & joint compound	finish			
102228 FOLDING PANEL PARTITIONS				
Café Platform:				
Motor Op acoustical part (44' x 12')	528	SF	120.00	63,360
SUB-TOTAL				4,705,010
C1020 INTERIOR DOORS				
081113 HOLLOW METALWORK				
Int Hollow Metal Frames:				
Sgl door (3'x7')	198	FΔ	325.00	64 350
$\frac{\text{Dbl}}{\text{door}} \left(6' \mathbf{x}^{7} \right)$	37	E A	340.00	12 580
Admin /Class Sidelight (7' h)	1 570	SE	42.00	65 940
Admin /Class Transom (2'h)	1,008	SF	42.00	42 336
Gym Transom (2' 6"h)	60	SF	42.00	2 520
Gym Window (12' Wy6 'H)	255	SE	42.00	10 710
Light Wall C Window (6'W v6 'H)	255	SF	42.00	3 024
Calming Dm Window (0 W x 0 11)	12	SF	42.00	2,024
Casad anon colming rm	40		42.00	2,010
Cased open calling III	5		250.00	1,050
Cased open multi-user tonet rm	9	EA	330.00	3,130
Misc. H.M Window, Sidelight & Transom -allow	500	SF	42.00	21,000
Hollow Metal Doors - 7'H Typ		W / 081416		
081416 FLUSH WOOD DOORS				
Int. 7' High HM / WD Door (Allow Flush Typ) :				
Class sgl	63	EA	875.00	55,125
Class Conn- sgl	35	EA	875.00	30,625
Admin Suite sgl	4	EA	875.00	3,500
Admin sgl	36	EA	875.00	31,500
Music practice rm -sgl	2	EA	875.00	1,750
Music Class rm - dbl	1	EA	1,650.00	1,650
GYM - dbl	4	EA	1,650.00	6,600

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Cafe platform - dbl	1	EA	875.00	875
TR sgl user	19	EA	700.00	13.300
Toilet / locker multi user	5	EA	700.00	3,500
Storage - sgl	21	EA	700.00	14,700
Storage - dbl	7	EA	1,400.00	9,800
MEP - sgl	10	EA	675.00	6,750
MEP - dbl	4	EA	1,350.00	5,400
Kitchen / Rec - dbl	3	EA	1,650.00	4,950
Stair / Corridor - dbl	17	EA EA	1,650.00	2,625 28,050
087100 FINISH HARDWARE				
Interior HM / WD Door Hardware :				
Class sgl	63	EA	1,200.00	75,600
Class Conn- sgl	35	EA	800.00	28,000
Admin Suite sgl	4	EA	1,200.00	4,800
Admin sgl	36	EA	1,200.00	43,200
Music practice rm -sgl	2	EA	2,000.00	4,000
Music Class rm - dbl	1	EA	3,000.00	3,000
GYM - dbl Cafe platform - dbl	4	EA	3,500.00	14,000
TR soluser	19		3,300.00	22,800
Toilet / locker multi user	5	EA	1,200.00	6,000
Storage - sgl	21	EA	575.00	12.075
Storage - dbl	7	EA	900.00	6,300
MEP - sgl	10	EA	575.00	5,750
MEP - dbl	4	EA	900.00	3,600
Kitchen / Rec - dbl	3	EA	2,000.00	6,000
Kitchen / Rec - sgl	3	EA	1,500.00	4,500
Stair / Corridor - dbl	17	EA	3,500.00	59,500
080001 METAL WINDOWS*				
Int Alum CW / Storefront Frame, Glass & Glazing-Allow	W /	C1010		
Int. Aluminum Door, Glass & Glazing(inc hardware):	1	Ε.	< 2 00.00	(200
Main Entry Vestibule - Office SGL		EA	6,200.00	6,200
Labby Main office SCI	2	EA EA	13,000.00	26,000
Staff dinning SGI	2	EA FA	2,850.00	2,830
Café- DBL	2	EA	7 000 00	14 000
Media Center DBL	1	EA	7.000.00	7.000
Typ Vestibule		NIC		-)
Stair Hall		NIC		
Security Glazing Premium @ Int Alum Door:				
Main Entry Vestibule - Office SGL	1	EA	600.00	600
Main Entry Vestibule - Lobby DBL	2	EA	1,200.00	2,400
083323 SPECIAL DOORS				
Access panels	1	LS	15,000.00	15,000
Lobby security grille		NIC		
Overhead and Roll up doors:				
Kitchen Grill (13'6" x 10')	3	EA	15.000.00	45.000
Clinton Middle School - Schematic				2/8/2024
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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Dish Wash Grill (6' x 4')	1	EA	6,500.00	6,500
080002 GLASS AND GLAZING*				
Glass & Glazing @ HM Sidelight & Transom Frame : Sidelight, transom & wind. One-way view glass FR Glass	3,748 48	SF SF N/A	75.00 110.00	281,100 5,280
Interior HM/ WD Door Glass & Glazing		W / Unit Cost		
090007 PAINTING*				
Interior Painting: Paint HM Door Frame - sgl Paint HM Door Frame - dbl Paint HM Cased Open. Frame Paint H.M Windows, Sidelights and Transoms	198 37 12 3,748	EA EA EA SF	150.00 190.00 150.00 6.00	29,700 7,030 1,800 22,488
SUB-TOTAL				1,230,649
C1030 FITTINGS				
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Int Café Platform Ramp (2 Loc): Wall mtd ss hand railing Painted stl rail w/ss handrail Café glass ramp guardrail w/ss handrail	58 30 18	LF LF LF	265.00 350.00 500.00	15,370 10,500 9,000
Second Floor Glazed Railing OT/PT swing equip support Gyp equip supports Café Platform equip. supports Misc. metals	182 1 1 1 136,000	LF RM LS LS GSF	500.00 5,000.00 10,000.00 5,000.00 3.00	91,000 5,000 10,000 5,000 408,000
062000 FINISH CARPENTRY				
Raised Café Platform & Ramps Solid surface Punch window sill(A6.1)	729	W / A10 LF	78.00	56,862
080002 GLASS AND GLAZING*				
OT/PT Class(1 EA) Allow: Wall mirror (4' x 6')	24	SF	74.00	1,776
102123 CUBICLE CURTAINS AND TRACK				
HDPE Toilet Partitions: Urinal screen Std. partition HC partition	7 27 14	EA EA EA	345.00 1,390.00 1,675.00	2,415 37,530 23,450

Clinton Middle School - Schematic			2/8/2024	
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
HDPE Locker Rm Partition & Benches:				
Changing rm	6	EA	1,500.00	9,000
ADA Changing rm	2	EA	1,800.00	3,600
SHW partition	4	EA	1,800.00	7,200
102813 TOILET ACCESSORIES				
Coordination @ Owner Furnish & Management Install Cl	lass / Work Rm Access	sories:		
Paper towel dispenser	65	EA	75.00	4,875
Soap dispenser	65	EA	75.00	4,875
Glove dispenser		TBD		
Furnish & Install Toilet Rm Accessories:				
SHW accessories	5	EA	350.00	1,750
M1 mirror @ lav 18x30	63	EA	285.00	17,955
M2 mirror @ locker rm	2	RM	750.00	1,500
Toilet grab bars	33	EA	115.00	3,795
Coat hook	60	EA	40.00	2,400
Hand Dryer	47	EA	985.00	46,295
San prod disposal	28	EA	65.00	1,820
Utility shelf 5"x15"	2	EA	250.00	500
Allow:			250.00	
Janitor shelf/mop holder	2	EA	250.00	500
Changing sta - fixed (a) lobby 1 R Changing sta - power op (a) SPED TR	2	EA EA	675.00 3.500.00	1,350
			-)	-)
Coordination (a) Owner Furnish & Management Install 16	oilet Rm Accessories:		75.00	1 500
I ollet tissue dispenser	60	EA	/5.00	4,500
Soap dispenser	63	EA	/5.00	4,725
Faper lower dispenser	4/	EA	/5.00	3,323
Free standing receptacie	4/	EA	/3.00	5,525
101116 MARKERBOARDS				
Allow:				
5'H Interactive display white bd	2,920	SF	26.50	77,380
5'H magnetic white bd	4,020	SF	26.50	106,530
5'H Tack Board	2,860	SF	19.00	54,340
Misc trim, marker tray magnets & accessories	1	LS	25,000.00	25,000
Flag holder	72	RM	300.00	21,600
Corridor Display case (4' x 5' x 1-2") - allow	6	EA	5,000.00	30,000
105113 METAL LOCKERS				
Type 1 -Corridor (15"w x12" D x 6'h - dbl tier)	436	EA	400.00	174,400
Type 2 - PE locker rm (15"w x12" D x 6'h)	108	EA	375.00	40,500
PE locker rm cont. bench (134 LF)	134	LF	85.00	11,390
Type 2 - ALT PE locker rm (15 "w x 12 " D x 6'h)	6	EA	375.00	2,250
Type 3 -Kitchen staff (15"w x12" D x 6'h - dbl tier)	9	EA	295.00	2,655
Locker Base		W/Unit Cost		
Locker Rm Bench-Allow(105113):				
Typ 9 1/2" W x6'	4	EA	1,600.00	6,400
ADA Wall mtd 24"W	2	EA	1,500.00	3,000
*Benches also include with changing partitions				

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
102123 CUBICLE CURTAINS AND TRACK				
Health office privacy curtain	3	EA	2,100.00	6,300
109000 MISCELLANEOUS SPECIALTIES				
Misc wall & corner guards Wire mesh partitions & doors(102213) Sensory swing	1	LS TBD NIC	5,000.00	5,000
104000 SAFETY SPECIALTIES				
Typ Safety Specialties (104000): Fire extinguisher & cab Fire extinguisher & bracket Fire valve cab Safety Data sheet Storage Cab AED & cabinet	40 5 2 1 1	EA EA EA EA	510.00 385.00 510.00 510.00 1,200.00	20,400 1,925 1,020 510 1,200
Science & STEM Safety Specialties (104000): Fire extinguisher & cab Fire extinguisher & bracket Fire blanket & cabinet	6 6 6	EA EA EA	510.00 385.00 500.00	3,060 2,310 3,000
<u>101400 SIGNAGE</u>				
Interior Signage - Allow: Door Signage Code/way finding signage Dedication plaque Lobby -Custom Town of Clinton history panel signage Café -Custom Town of Clinton history panel signage Misc. int signage	235 136,000 1 1 1 1	EA SF EA LS LS LS	$185.00 \\ 0.15 \\ 3,600.00 \\ 10,000.00 \\ 10,000.00 \\ 20,000.00$	$\begin{array}{r} 43,475\\ 20,400\\ 3,600\\ 10,000\\ 10,000\\ 20,000\end{array}$
Signage - By Others(Spec.): BLDG directory @ Main Lobby History wall @ Main Lobby Word Wall @ Main Lobby Wayfinding signage over directional signage				
SUB-TOTAL				1,510,738
TOTAL C10 - INTERIOR CONSTRUCTION				7,446,397
C20 - STAIRS C2010 STAIR CONSTRUCTION 033000 CAST IN PLACE CONCRETE				
Cone Pan Fill @:				
Metal pan stair (full flt)	6	FLTS	4,500.00	27,000

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Metal Pan Stair, Typ Mtl Rail & SS Handrail : Mon lobby grand stair(Glass rail sys) Stair Hall A - switch back (6'wx15'H) Stair Hall B - monumental (7'wx15'H) Stair Hall C - switch back (6'wx15'H) Stair Hall D - switch back (6'wx15'H) Roof Stair Hall B - straight(5'wx15'H)	1 1 1 1 1	FLT FLT FLT FLT FLT FLT	$\begin{array}{c} 70,000.00\\ 60,000.00\\ 70,000.00\\ 55,000.00\\ 55,000.00\\ 45,000.00\end{array}$	70,000 60,000 70,000 55,000 55,000 45,000
Cane rail - allow	5	LOC	1,500.00	7,500
SUB-TOTAL				389,500
C2020 STAIR FINISHES				
062000 FINISH CARPENTRY				
Stage Platform Stair		N/A		
094000 TERRAZZO FLOOR				
Mon. Lobby Stair (1 Flt): Terrazzo tread Terrazzo landing	228 72	LFR SF	145.00 75.00	33,060 5,400
090005 RESILIENT FLOORING*				
Stair -Full Flt(4 FLT): Rubber treads and risers Rubber tile mid landing	650 375	LFR SF	21.00 18.50	13,650 6,938
<u>090007 PAINTING*</u>				
Conc. Pan Fill Sealant @: Roof Stair Hall B - straight	1	FLT	3,500.00	3,500
Paint metal pan stair & rails (NIC SS): Mon lobby grand stair Stair Hall A - switch back Stair Hall B - monumental Stair Hall C - switch back Stair Hall D - switch back Roof Stair Hall B - straight	1 1 1 1 1 1	FLT FLT FLT FLT FLT FLT	3,500.00 3,500.00 3,500.00 3,500.00 3,500.00 3,500.00	3,500 3,500 3,500 3,500 3,500 3,500
SUB-TOTAL				83,548
TOTAL C20 - STAIRS				473,048

C30 - INTERIOR FINISHES

C3010 WALL FINISHES

Clinton Middle School - Schematic

2/8/2024

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
040001 MASONRY*		W / C1010		
062000 FINISH CARPENTRY				
FRP Wall Panel -Allow: Sci. @ emerg shw (11 loc) Kitchen 10' Custodial rms 7' Receiving 7'	792 3,808 1,974 1,700	SF SF SF SF	$14.00 \\ 14.0$	11,088 53,312 27,636 23,800
P.Lam Wall Panel: Lobby (A8.4) Café (A8.4) Allow- Music class rm (1 ea) Allow- Cafe platform Allow- Media Ctr	2,924 2,224 500 500 500	SF SF SF SF	$\begin{array}{c} 45.00 \\ 45.00 \\ 45.00 \\ 45.00 \\ 45.00 \end{array}$	131,580 100,080 22,500 22,500 22,500
Wood Veneer Wall Panel Corridor locker surround trim		N/A NIC		
<u>090002 TILE*</u>				
PT - Porcelain Wall Tile-Allow: PT Staff dinning PT Servery PT Corridor & stair wall tile 7'(nic admin. suite)	50 500 23,819	SF SF SF	35.00 35.00 35.00	1,750 17,500 833,665
CT -Health suite allow	500	SF	36.00	18,000
Toilet Rm SGL User (19 LOC): 7' h PT Wet wall (172 LF) 7' h PT Wainscot (368 LF) Toilet Rm Multi User (12 LOC) 7' h PT Wet wall (267 LF)	1,204 2,576 1,869	SF SF SF	36.00 36.00 36.00	43,344 92,736 67,284
7'h PT Wainscot (732 LF)	5,124	SF	36.00	184,464
Locker /Toilet Rm Multi User (2 LOC): 7' h CT Wet wall (90 LF) 7' h CT Wainscot (271 LF)	630 1,897	SF SF	36.00 36.00	22,680 68,292
Tile backer bd premium	38,169	SF	2.15	82,063
090007 PAINTING*				
Interior painting- walls	136,000	GSF	2.15	292,400
098400 ACOUSTIC ROOM COMPONENTS				
Acoustical Wall Panel-Allow : Main gym Art Rm(2 loc) Music Class Rm Music Practice rm (2 loc) Media Ctr Lobby (A8.4)	1,200 220 500 150 250 1,100	SF SF SF SF SF	22.00 38.00 38.00 38.00 38.00 38.00 38.00	26,400 8,360 19,000 5,700 9,500 41,800

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Academic Corridor Cafe (A8.4) Cafe platform	1,500 1,835 250	SF SF SF	38.00 38.00 38.00	57,000 69,730 9,500
109000 MISCELLANEOUS SPECIALTIES				
Allow: Environmental graphics Custom Town History panel (101400)	1	LS W / C1030	25,000.00	25,000
SUB-TOTAL				2,411,164
C3020 FLOOR FINISHES				
033000 CAST IN PLACE CONCRETE				
Sealed Concrete Floor : Out door storage Mechanical rms Electric rms	335 989 W	SF SF / LINOLEUM	2.10 2.10	704 2,077
<u>090002 TILE*</u>		N/A		
094000 TERRAZZO FLOOR				
Lobby 1st Floor -Allow: Terrazzo epoxy flooring Terrazzo wall base - 4" precast Premium - 12' Dia logo Terrazzo	5,337 405 113	SF LF SF	44.00 35.00 100.00	234,828 14,175 11,300
090005 RESILIENT FLOORING*				
Allow: Linoleum Linoleum stair hall(nic mid landing) Rubber tile stair mid landing	95,428 2,607	SF SF w/C2020	7.25 10.00	691,853 26,070
A" Resilient wall base (incl corridor @ tile)	252	5F I F	21.50	5,418 70,350
090007 PAINTING*	21,000		5.55	70,550
Sealed Concrete Floor		W / DIV 3		
090561 MOSITURE VAPOR EMISSION CONTROL				
Moisture mitigation - Resinous Flooring only	12,247	SF	4.75	58,173
095000 WOOD ATHLETIC FLOOR				
WAF Gym wood sports flr sys -complete VRB Gym wall base - vented rubber	7,038 342	SF LF	21.50 7.80	151,317 2,668

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
ST -1 Stage polymer hardboard	1,472	SF	20.50	30,176
Stage nosing	50	LF	45.00	2,250
Stage wood wall base	103	LF	6.75	695
*Excludes ramps				
<u>096800 CARPET</u>				
Carpet Tile - Admin & Media	7,527	SF	6.00	45,162
097500 RESINOUS FLOORING				
Fluid Applied Epoxy Flooring w/ Int Wall Base:				
MEP Rm		NIC		
Receiving	1,190	SF	23.00	27,370
Custodial Rms	1,043	SF	23.00	23,989
Toilet Rms	4,731	SF	23.00	108,813
Locker Rms	1,948	SF	23.00	44,804
Kitchen	3,335	SF	23.00	76,705
*Includes cooler, freezer, office storage and toilet rm				
<u>124813 MATS</u>				
Interior-Allow:				
Main Entry Vestibule recessed walk-off mat	222	SF	65.00	14,430
Exterior-Allow :				
Foot grill		NIC		
SUB-TOTAL				1,643,327
C3030 CEILING FINISHES				
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Unistrut Ceiling Grid System:	1	IC	15 000 00	15 000
Cale universal grid sys(spec)	1	LS	15,000.00	15,000
ART Class (2 EA):				
Clg stl frame (52 LF/RM)	104	LF	100.00	10,400
Science Class 7 & 8 Equipment (3 EA):				
Clg stl frame (52 LF/RM)	156	LF	100.00	15,600
Life Science Class (1 EA):				
Clg stl frame (52 LF/RM)	52	LF	100.00	5,200
062000 FINISH CARPENTRY				
Allow -Complete :				
Proscenium Panel (a) Cafe platform (6'x32')	192	SF	100.00	19,200
Int root (a) Cate servery(8'x60')	480	SF	/5.00	36,000

092116 GYPSUM WALLBOARD

Clinton Middle School - Schematic

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2/8/2024

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
2 HR Gyp Ceiling-Allow: Elev machine rm BDA & Emerg Elec Rm		N/A Exp Struct. Exp Struct.		
Gyp Ceiling: Underside of metal pan stair		TBD		
Gyp Soffit -Complete: Skylight perim soffit 769LF x 5'H Lobby skylight cross beam cladding(6 loc) Floor opening soffit 4' 6"H Misc. Gyp Soffit	3,845 1,092 1,066 136,000	SF SF SF GSF	24.00 24.00 24.00 0.50	92,280 26,208 25,584 68,000
ACT 100%- Allow: Class & Admin Typ Corridor Stair hall Locker, Toilet & Custodian Rms Kitchen	61,858 19,062 2,774 8,032 2,798	SF SF SF SF SF	7.50 7.50 7.50 8.25 8.25	463,935 142,965 20,805 66,264 23,084
Combination CLG Systems- Allow: ES & GWB STEM Lab (3 EA) ACT,AD & GWB Music Class & Practice Rm ACT,AD & GWB Café Platform SC & GWB Café (acoustic deck) SC & GWB Servery ACT & GWB Media Ctr ES & GWB Maker Space ACT & GWB Collab. Space SC, ES & GWB Lobby ACT & GWB Main entry vestibule	$\begin{array}{c} 3,980\\ 2,100\\ 1,068\\ 6,306\\ 454\\ 2,984\\ 1,062\\ 2,372\\ 6,354\\ 222\end{array}$	SF SF SF SF SF SF SF SF	$\begin{array}{c} 15.00\\ 25.00\\ 25.00\\ 20.00\\ 20.00\\ 15.00\\ 15.00\\ 15.00\\ 15.00\\ 15.00\\ 15.00\\ 15.00\\ 15.00\\ \end{array}$	59,700 52,500 26,700 126,120 9,080 44,760 15,930 35,580 95,310 3,330
090007 PAINTING*				
Paint GWB CLG & soffits	1	LS	25,000.00	25,000
ES Paint Exposed Structure 100%: Elec, mech & storage Gym acoustical deck	2,496 7,038	SF SF	1.50 3.00	3,744 21,114
SUB-TOTAL				1,549,393
TOTAL C30 - INTERIOR FINISHES				5,603,883

D. SERVICES

D10 - CONVEYING

D1010 ELEVATORS & LIFTS

140001 ELEVATORS & LIFTS*

Clinton Middle School - Schematic 2/8/2024 _____ DESCRIPTION UNIT TOTAL QUANTITY UNIT COST 2 STOP Passenger elevator (2 door) 85,000.00 170,000 050001 MISCELLANEOUS & ORNAMENTAL IRON* Elevators: Elev. framing 1 EA 4,500.00 4,500 Elev. pit ladder 1 EA 2,200.00 2,200 Elev. sump grate 1 EA 2,300.00 2,300 179,000 SUB-TOTAL TOTAL D10 - CONVEYING 179,000 D20 - PLUMBING D2010 PLUMBING 220001 PLUMBING* Fixtures: L-1 Science Sink (Faucet Only) 20 22,000 EA 1,100.00 L-2 Science Sink EA 6 1,100.00 6,600 L-3 Science Sink 4 EA 4,400 1,100.00 L-4 Science Prep Sink 4 EA 4,400 1,100.00 P-1 WC 27 2,100.00 56,700 ΕA P-2 WC 32 ΕA 2,100.00 67,200 P-3 UR 6 EA 1,850.00 11,100 P-4 UR 8 EA 14,800 1,850.00 P-5 LAV 30 43,500 EA 1,450.00 P-6 LAV ADA 33 47,850 EA 1,450.00 P-7 Bi-Level Water Cooler 6 EA 4,000.00 24,000 P-8 MS 2 ΕA 2,800.00 5,600 P-9 Ctr Sink 25 EA 33,750 1,350.00 P-10L Ctr Sink w Bubbler 20 44,000 EA 2,200.00 23 P-10R Ctr Sink EA 1,500.00 34,500 P-11 Ctr Sink ADA 4 EA 6,000 1,500.00 P-12 Art Sink 13 ΕA 1,800.00 23,400 P-13 Exam Rm Sink 1,500 1 ΕA 1,500.00 P-14 Shower/ Valve & head 2 EA 1,950.00 3,900 P-15 Shower ADA/ Valve & Head 4 EA 1,950.00 7,800 P-16 Emergency Shower 13 EA 3,500.00 45,500 WH Wall Hydrant EA 1,000.00 4,000 4 15 EA HB 475.00 7,125 **Fixture Connections** 283 EA 350.00 99,050 Auto Sensor (batt.): Flush valve 73 EA 510.00 37,230 Lav Sensor 63 EA 485.00 30,555 Domestic Water Heater: 2 60,000 HP Water Heater (12 Tons) EA 30,000.00 EWH 150 Gal 1 EA 20,000.00 20,000 3 45,000.00 135,000 500 Gal. Storage Tanks EA

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Misc. Valve and trim	1	LS	30,000.00	30,000
Master mixing valves	2	EA	2,200.00	4,400
Circulation Pump: RP-1	3	EA	1.800.00	5.400
Expansion Tank:	5	Diri	1,000.00	5,100
ET/1	3	EA	2,800.00	8,400
Mech RM Piping Valves and Fittings	1	LS	150,000.00	150,000
Roof/Storm Drain System	136,000	SF	3.50	476,000
RD	36	EA	1,650.00	59,400
Sanitary System				
Underground D/W/V Pipe:				
4"-6"	2,425	LF	120.00	291,000
FCO	20	EA	455.00	9,100
Floor Drain	20	EA	625.00	12,500
Trap Primer	1	LS	7,500.00	7,500
Oil interceptor	1	EA	2,500.00	2,500
Elevator Sump Pump	1	EA	4,500.00	4,500
6000 Gal. GT Exterior (Connection)	1	LS	3,500.00	3,500
GI Interior grease trap	2	EA	6,800.00	13,600
Above Ground D/W/V Pipe:				
2"-4"	8,968	LF	42.00	376,656
СО	10	EA	450.00	4,500
Acid Waste:				
Underground D/W/V Pipe:				
4"-6" UG	913	LF	90.00	82,170
4"-6" AG	1,292	LF	90.00	116,280
FCO	12	EA	428.50	5,142
Acid Neutralization Tank	1	LS	75,000.00	75,000
Domestic Piping/ Insulation :				
Branch	7,700	LF	42.00	323,400
Main	7,700	LF	65.00	500,500
Pipe Valves and Fittings	1	LS	75,000.00	75,000
RPV @ Mech	1	LS	3,000.00	3,000
Water Hammer arrestors	1	LS	10,000.00	10,000
MV-1	1	EA	5,000.00	5,000
Water Sub Meter	1	LS	4,000.00	4,000
Gas:		N/A		
6" Perf PVC Under slab drainage		NIC		
Radon Mitigation	3,049	LF	28.00	85,372
Underground Water Service:				
4"	20	LF	90.00	1,800
Water service bfp and rough	1	LS	12,500.00	12,500
Test and Sanitize	1	LS	25,000.00	25,000
Kitchen Connection	1	LS	45,000.00	45,000
Core and Firesafing	1	LS	25,000.00	25,000
Seismic restraint	1	LS	30,000.00	30,000
Test, misc gc	1	LS	200,000.00	200,000

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
SUB-TOTAL				3,984,580
TOTAL D20 - PLUMBING	\$29.30 /SF			3,984,580
D30 - HVAC				
D3010 HVAC				
230001 HVAC*				
HYBRID GEOTHERMAL SYSTEM W/ ASHP & CUST	OM RTU			
Geothermal Mech Rm: Incoming Groundwater Loop Geo manifold header Tie Geothermal loop into Mechanical Room Header Ground Water Pumps Wells	1 1 8 2	LS LS LOC EA W/Site	50,000.00 30,000.00 3,000.00 22,000.00	50,000 30,000 24,000 44,000
Cooling/Heating Generation MultiStack P-1-ABC P-2-ABC VFD GF-1-2 ET 1-2 AS 1-2 Shot Feeder Glycol Chemical feed Buffer Tank HX HP piping trim and valve Electric Boiler (240 KW) Boiler Pump Mech RM Exhaust/Intake	150 3 3 6 2 2 2 2 2 2 1 1 2 1 1 2 1 1 2 2 1	TONS EA EA EA EA EA EA EA EA EA EA EA EA LS	3,000.00 12,500.00 18,500.00 3,000.00 5,000.00 2,800.00 4,500.00 60,000.00 6,500.00 30,000.00 100,000.00 35,000.00 30,000.00	$\begin{array}{c} 450,000\\ 37,500\\ 55,500\\ 18,000\\ 10,000\\ 5,600\\ 17,000\\ 9,000\\ 60,000\\ 13,000\\ 30,000\\ 100,000\\ 70,000\\ 7,000\\ 30,000\\ \end{array}$
Packaged RTU: RTU-1 RTU-2 RTU-3 RTU-4 RTU-5 DOAS-1 DOAS-2 DOAS-5 MAU-1 Custom RTU: DOAS-3 DOAS-4 DOAS-5 DOAS-5 DOAS-5 DOAS-5 DOAS-7 Condenser		CFM CFM CFM CFM CFM CFM CFM CFM CFM CFM	$\begin{array}{c} 30.00\\ 30.00\\ 30.00\\ 30.00\\ 30.00\\ 30.00\\ 30.00\\ 30.00\\ 30.00\\ 30.00\\ 36.00\\ 36.00\\ 36.00\\ 36.00\\ 36.00\\ 36.00\\ 36.00\\ 2,300.00\\ 4.5\ 00\end{array}$	$\begin{array}{c} 240,000\\ 60,000\\ 195,000\\ 195,000\\ 36,000\\ 36,000\\ 36,000\\ 165,000\\ 165,000\\ 190,800\\ 288,000\\ 115,200\\ 216,000\\ 324,000\\ 184,000\\ 45,000\\ \end{array}$
REF Curbs	1,000 14	LF EA	45.00 6,500.00	45,000 91,000

DESCRIPTION QUANTITY UNIT UNIT TOTAL Merv Filters 28 EA 2,500.00 70,000 ERV-1 200 CFM 24,00 4,800 Sound Attennation box 136,200 CFM 0.72 98,664 VRF System 20 TONS 2,300.00 46,000 BC 1 EA 10,500.00 10,500 BC 1.84 12,200.00 25,600 24,000 46,000 Ref Line 1.280 EA 35,000 24,000 20,000	Clinton Middle School - Schematic				2/8/2024
Nerv Filters 28 EA 2,500.00 70,000 ERV-1 200 CFM 24.00 4,800 Sound Attenuation box 1362.00 CFM 0.72 98,064 VRF System 20 TONS 2,300.00 46,000 10.500 000 10.500 000 10.500 000 10.500 10.500 000 10.500 56.000 15.000 10.500 56.000 10.500 00.500 56.000 56.000 56.000 56.000 25.000 25.000 25.000 00.000 25.000 00.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 25.000 26.000 24.000 10.89.00 24.000 10.89.00 24.000 10.89.00 24.250 25.000 86.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.000 26.900 26.900 26.900 26	DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
ERV-1 200 CFM 24.00 4,800 Sound Attenuation box 136,200 CFM 0.72 98,064 VRF System 20 TONS 2,300,00 46,000 10,500,00 10,500,00 10,500,00 10,500,00 10,500,00 10,500,00 10,500,00 10,500,00 10,500,00 10,500,00 10,500,00 10,500,00 2,600 57,600 57,600 57,600 52,600 64 EA 350,00 2,800 0,2,600 0,000 2,400 0,000 2,400 0,000 2,400 0,000 2,800 10,404 11,500,00 16,420 10,10 LA 17,500 86,400 Modulating Valve 310 EA 17,500 86,400 Modulating Valve 310 EA 12,500 77,500 18,400 16,600 58,600 10,904,000 10,904,000 10,904,000 161,520 15,510 16,520 161,520 161,520 16,500 161,520 161,520 161,520 161,520 165,500,00 161,520 161,520	Merv Filters	28	EA	2,500.00	70,000
Sound Attenuation box 136,200 CFM 0.72 98,064 VRF System 20 TONS 2,300.00 46,000 DC 1 EA 10,500.00 10,500 Indoor FCU 8 EA 3,200.00 25,600 Isolation valve 16 EA 4,500 57,600 Condensate Pump 8 EA 300.00 2,400 Condensate Pump 8 EA 350.00 2,800 Ordensate Pump 8 EA 350.00 2,800 VAV/FVAV-4-Pipe 1,210 LF 90.00 108,900 VAV/FVAV-4-Pipe 310 EA 175.00 54,250 Isolation valve 620 EA 125.00 77,500 HVAC Pipe w/ Insulation: 136,000 EA 0.50 68,000 Air Distribution: Grilles and Dampers 673 EA 240.00 161,520 Gaivanized ductwork 150,000 SF 6.50 845,000 FND	ERV-1	200	CFM	24.00	4,800
VRF System 20 TONS $2,300.00$ $46,000$ BC 1 EA $10,500.00$ $10,500$ Indoor FCU 8 EA 3200.00 $225,600$ Sel Line 1.280 EA 45.00 $57,600$ Condensate Pump 16 EA $125,00$ $2,000$ Condensate Line 8 EA 350.00 $2,800$ HW Baseboard 1,210 LF 90.00 $108,900$ VAV/FVAV-4-Pipe 64 EA $1.750.0$ $54,250$ Isolation valve 620 EA 125.00 $77,500$ HVAC Pipe w/ Insulation: 136,000 GA 0.50 $68,000$ Air Distribution: T Griles and Dampers 673 EA 240.00 $161,520$ Displacement diffusers 148 EA 450.00 $66,600$ Stribution: 28 EA $1,400.00$ $39,200$ CVAR 150,000 LBS 19.00 28	Sound Attenuation box	136,200	CFM	0.72	98,064
Condenser 20 TONS 2,300.00 46,000 BC I EA 10,500.00 10,500 Indor FCU 8 EA 3,200.00 25,600 Isolation valve I,280 EA 45,00 2,000 Condensate Line 8 EA 300.00 2,400 Condensate Line 8 EA 300.00 2,400 VAV/FVAV-4-Pipe 64 EA 1,350.00 86,400 VAV/FVAV-4-Pipe 64 EA 1,350.00 86,400 Modulating Valve 310 EA 175.00 54,250 Isolation valve 620 EA 125.00 77,500 HVAC Pipe w/ Insulation: 136,000 EA 0.50 68,000 Air Distribution: T Griles and Dampers 673 EA 240.00 161,520 Displacement diffusers 148 EA 450.00 38,000 CSQ EA 130,000 SF 6.50 845,000 <t< td=""><td>VRF System</td><td></td><td></td><td></td><td></td></t<>	VRF System				
BC I EA 10,500,00	Condenser	20	TONS	2,300.00	46,000
Indeor FCU 8 EA $3,200.00$ $25,600$ Ref Line 1,280 EA $45,00$ $57,600$ Isolation valve 16 EA $125,00$ $2,000$ Condensate Pump 8 EA 300.00 $2,400$ Condensate Line 8 EA 300.00 $2,400$ WB aseboard 1,210 LF 90.00 $108,900$ VAV/FVAV-4-Pipe 64 EA $1,350.00$ $86,400$ Modulating Valve 310 EA 175.00 $54,250$ Isolation valve 620 EA 125.00 $77,500$ HVAC Pipe w/ Insulation: 136,000 EA 0.50 $68,000$ Air Distribution: Grilles and Dampers 673 EA 240.00 $161,520$ Displacement diffusers 148 EA 450.00 $66,600$ PSD 28 EA 1400.00 $39,200$ Galvanized ductwork 150,000 SF 50.00	BC	1	EA	10,500.00	10,500
Ref Line 1,280 EA 45.00 57,600 Isolation valve 16 EA 125.00 2,000 Condensate Line 8 EA 300.00 2,400 Condensate Line 8 EA 300.00 2,800 HW Baseboard 1,210 LF 90.00 108,900 VAV/FVAV-A-Pipe 64 EA 1,350.00 86,400 Modulating Valve 310 EA 175.00 54,250 Isolation valve 620 EA 125.00 77,500 HVAC Pipe w/ Insulation: 136,000 EA 0.50 68,000 Air Distribution:	Indoor FCU	8	EA	3,200.00	25,600
	Ref Line	1.280	EA	45.00	57,600
Condensate Line 8 EA 300.00 $2,400$ Condensate Line 8 EA 350.00 $2,800$ HW Baseboard 1,210 LF 90.00 $108,900$ VAV/FVAV-4-Pipe 64 EA $1.350.00$ $86,400$ Modulating Valve 310 EA 175.00 $54,250$ Isolation valve 620 EA 125.00 $77,500$ HVAC Pipe w/ Insulation: 136,000 EA 0.50 $68,000$ Air Distribution: T T EA 0.50 $68,000$ Air Distribution: T T EA 0.50 $68,000$ Sipplacement diffusers 148 EA 40.00 $161,520$ Displacement diffusers 148 EA $40.00.00$ 2850.000 FVAV Box 10 EA 550.00 $5,500$ EVAN Box 10 EA 50.00 $5,500$ EPDM wrap 1,500 SF 900 $9,$	Isolation valve	16	EA	125.00	2.000
Condensate Line 8 EA 15000 2.800 Condensate Line 8 EA 550.00 2.800 HW Baseboard 1,210 LF 90.00 108,900 VAV/FVAV-4-Pipe 64 EA 1,350.00 86,400 Modulating Valve 310 EA 175.00 54,250 Isolation valve 620 EA 125.00 77,500 HVAC Pipe w/ Insulation: 136,000 EA 0.50 68,000 Air Distribution: Grilles and Dampers 673 EA 240.00 161,520 Displacement diffusers 148 EA 450.00 68,000 FD Datrisul 130,000 SF 6.50 845,000 FV Datrisul 130,000 SF 6.50 845,000 CVR 10 EA 50.00 3.800 CVR 10 EA 50.00 3.000 EPDW wrap 1,500 SF 12.00 18,000 Fibe wrap at duct - welded	Condensate Pump	8	EA	300.00	2,000
HW Baseboard 1,210 LF 90.00 108,900 VAV/FVAV-4-Pipe 64 EA 1,350.00 86,400 Modulating Valve 310 EA 175.00 54,220 Isolation valve 620 EA 125.00 77,500 HVAC Pipe w/ Insulation: 136,000 GSF 14.00 1,904,000 Mise. Heating 136,000 EA 0.50 68,000 Air Distribution: Grilles and Dampers 673 EA 240.00 161,520 Splacement diffusers 148 EA 450.00 66,600 SPD 28 EA 1,400.00 39,200 Galvanized ductwork 150,000 LBS 19.00 2,850,000 1" Duct insul 130,000 SF 6.50 845,000 CVR 10 EA 550.00 3,000 CVR 10 EA 50.00 3,000 Fie wrap at duct -000 SF 9.00 9,000 Fie wrap at duct 1 EA 2,500.00 2,800 Fie wrap at duct </td <td>Condensate Line</td> <td>8</td> <td>EA</td> <td>350.00</td> <td>2,800</td>	Condensate Line	8	EA	350.00	2,800
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	HW Baseboard	1,210	LF	90.00	108,900
Modulating Valve 310 EA 175.00 54,250 Isolation valve 620 EA 125.00 77,500 HVAC Pipe w/ Insulation: 136,000 GSF 14.00 1,904,000 Mise. Heating 136,000 EA 0.50 68,000 Air Distribution: Grilles and Dampers 673 EA 240.00 161,520 Displacement diffusers 148 EA 450.00 66,600 FSD 28 EA 1,400.00 39,200 Galvanized ductwork 150,000 LBS 19.00 2,850,000 EVA V Box 40 EA 950.00 38,000 VPM wrap 1,500 SF 12.00 18,000 Fire wrap at duct 2,000 LBS 20.50 41,000 PEV 1 EA 3,000.00 3,000 Exhaust Fan: 1 EA 6,500.00 6,500 Kitchen hood exhaust duct - welded 1,000 SF 9,000 2,800	VAV/FVAV-4-Pipe	64	EA	1,350.00	86,400
Isolation value 620 EA 125.00 $77,500$ HVAC Pipe w/ Insulation: 136,000 GSF 14.00 1,904,000 Mise. Heating 136,000 EA 0.50 68,000 Air Distribution: 673 EA 240.00 161,520 Displacement diffusers 148 EA 450.00 68,000 SDD 28 EA 1,400.00 39,200 Galvanized ductwork 150,000 LBS 19.00 2,850,000 I*Duct insul 130,000 SF 6.50 845,000 CVR 10 EA 950.00 38,000 CVR 10 EA 550.00 5,500 EPDM wrap 1,500 SF 12.00 18,000 Kitchen hood exhaust duct - welded 2,000 LBS 20.50 41,000 Fire wrap at duct 1,000 SF 9.00 9,000 PEV 1 EA 6,500.00 2,500 KEF - 1 1 <td< td=""><td>Modulating Valve</td><td>310</td><td>EA</td><td>175.00</td><td>54,250</td></td<>	Modulating Valve	310	EA	175.00	54,250
HVAC Pipe w/ Insulation: 136,000 GSF 14.00 1,904,000 Misc. Heating 136,000 EA 0.50 68,000 Air Distribution: 673 EA 240,00 161,520 Displacement diffusers 148 EA 450,00 66,600 FSD 28 EA 1,400,00 39,200 Galvanized ductwork 150,000 LBS 19,00 2,850,000 I'Duct insul 130,000 SF 6,50 845,000 CVR 10 EA 950,00 38,000 CVR 10 EA 3,000,00 38,000 CVR 1,000 SF 9,00 9,000 Fire wrap at duct 1,000 SF 9,00 9,000 PEV 1 EA 3,000,00 3,000 Exhaust Fan: Dish washer Exhaust 1 EA 2,800,00 2,800 EF - 1 1 EA 2,800,00 2,800 2,800 2,800 2,800 2,800 2,800 2,800 2,800 2,800 2,800 2,800	Isolation valve	620	EA	125.00	77,500
Misc. Heating 136,000 EA 0.50 $68,000$ Air Distribution:	HVAC Pipe w/ Insulation:	136,000	GSF	14.00	1,904,000
Air Distribution: 673 EA 240.00 161,520 Displacement diffusers 148 EA 450.00 66,600 FSD 28 EA 1,400.00 39,200 Galvanized ductwork 150,000 LBS 19.00 2,850,000 I'' Duct insul 130,000 SF 6.50 845,000 CVAV Box 40 EA 950.00 38,000 CVR 10 EA 550.00 5,500 EPDM wrap 1,500 SF 12.00 18,000 Kitchen hood exhaust duct - welded 2,000 LBS 20.50 41,000 Fire wrap at duct 1,000 SF 9.00 9,000 PEV 1 EA 3,000.00 3,000 Exhaust Fan: 1 EA 2,500.00 2,500 KEF -1 1 EA 2,800.00 2,800 EF 3 EA 1,800.00 5,400 Split System (Includes Condenser/Indoor/Ref/Cond.) Split System FC 4 EA 22,000.00 88,000 Condensate Pum	Misc. Heating	136,000	EA	0.50	68,000
Grilles and Dampers 673 EA 240.00 161,520 Displacement diffusers 148 EA 450.00 66,600 FSD 28 EA 1,400.00 39,200 Galvanized ductwork 150,000 LBS 19.00 2,850,000 1" Duct insul 130,000 SF 6.50 845,000 E-VAV Box 40 EA 950.00 38,000 CVR 10 EA 550.00 5,500 EPDM wrap 1,500 SF 12.00 18,000 Kitchen hood exhaust duct - welded 2,000 LBS 20.50 41,000 PEV 1 EA 3,000.00 3,000 PEV 1 EA 2,500.00 2,500 KEF - 1 1 EA 2,500.00 2,500 Kih Fan 1 EA 2,800.00 2,800 F 1 EA 2,800.00 2,800 Split System FC 4 EA 22,000.00	Air Distribution:				
Displacement diffusers 148 EA 450.00 66,600 FSD 28 EA 1,400.00 39,200 Galvanized ductwork 150,000 LBS 19.00 2,850,000 I" Duct insul 130,000 SF 6.50 845,000 EVAV Box 40 EA 950.00 38,000 CVR 10 EA 550.00 5,500 EPDM wrap 1,500 SF 12.00 18,000 Kitchen hood exhaust duct - welded 2,000 LBS 20.50 41,000 Fire wrap at duct 1,000 SF 9.00 9,000 PEV 1 EA 3,000.00 3,000 Exhaust Fan: EA 2,500.00 2,500 Dish washer Exhaust 1 EA 2,500.00 2,800 Kiln Fan 1 EA 2,800.00 2,800 EF 3 EA 1,800.00 3,000 Split System (Includes Condenser/Indoor/Ref/Cond.) Split System F	Grilles and Dampers	673	EA	240.00	161.520
FSD10FA1,400.0039,200Galvanized ductwork150,000LBS19.002,850,0001" Duct insul130,000SF6.50845,000CVAV Box40EA950.0038,000CVR10EA550.005,500EPDM wrap1,500SF12.0018,000Kitchen hood exhaust duct - welded2,000LBS20.5041,000Fie wrap at duct1,000SF9.009,000PEV1EA3,000.003,000Exhaust Fan:1EA2,500.002,500Kih Fan1EA2,800.002,800EF1EA2,800.002,800Split System (Includes Condenser/Indoor/Ref/Cond.)Split System FC4EASplit System FC4EA350.001,400Condensate Pump4EA350.001,400Temperature Control/CO2136,000SF9.501,292,000Seismic & vibrator control1LS40,000.00200,000Garging1LS200,000.00200,000Start-Up340HRS110.0037,400Start-Up340HRS110.0037,400Start-Up340HRS110.0037,400Start-Up340HRS110.0037,400Start-Up340HRS110.0037,400	Displacement diffusers	148	EA	450.00	66,600
Image: Control of Contrel of Contrel of Control of Contrel of Contrel of Contr	FSD	28	EA FA	1 400 00	39,200
Carterin Red with Red 130,000 EDS 17.00 2,050,000 1" Duct insul 130,000 SF 6.50 845,000 E-VAV Box 40 EA 950,000 38,000 CVR 10 EA 550,00 5,500 EPDM wrap 1,500 SF 12,00 18,000 Kitchen hood exhaust duct - welded 2,000 LBS 20.50 41,000 Fire wrap at duct 1,000 SF 9.00 9,000 PEV 1 EA 3,000.00 3,000 Exhaust Fan: Dish washer Exhaust 1 EA 2,500,00 2,500 KEF - 1 1 EA 6,500,00 6,500 6,500 Kih Fan 1 EA 2,800,00 2,800 EF 3 EA 1,800,00 5,400 Split System FC 4 EA 22,000 88,000 Condensate Pump 4 EA 350.00 1,400 Temperature Control/CO2 136,000 SF 9.50 1,292,000 Seismic & vibrator cont	Galvanized ductwork	150 000	IBS	19.00	2 850 000
Product institution 10,000 Sit 0.00 040,000 EVAV Box 40 EA 950.00 38,000 CVR 10 EA 550.00 5,500 EPDM wrap 1,500 SF 12.00 18,000 Kitchen hood exhaust duct - welded 2,000 LBS 20.50 41,000 Fire wrap at duct 1,000 SF 9.00 9,000 PEV 1 EA 3,000.00 3,000 Exhaust Fan: 1 EA 2,500.00 2,500 Dish washer Exhaust 1 EA 2,800.00 2,800 EF 1 EA 2,800.00 2,800 EF 3 EA 1,800.00 5,400 Split System (Includes Condenser/Indoor/Ref/Cond.) 5 9.50 1,292,000 Split System FC 4 EA 350.00 1,400 Temperature Control/CO2 136,000 SF 9.50 1,292,000 Seismic & vibrator control 1 LS 40,000.00 40,000 Rigging 1 LS	1" Duct insul	130,000	SE	6.50	845,000
L-YAY BOX 40 LA 500.00 38,000 CVR 10 EA 550.00 55,00 EPDM wrap 1,500 SF 12.00 18,000 Kitchen hood exhaust duct - welded 2,000 LBS 20.50 41,000 Fire wrap at duct 9.00 SF 9.00 9,000 PEV 1 EA 3,000.00 3,000 Exhaust Fan: 1 EA 2,500.00 2,500 KEF - 1 1 EA 2,500.00 2,500 Kiln Fan 1 EA 2,800.00 2,800 EF 3 EA 1,800.00 5,400 Split System (Includes Condenser/Indoor/Ref/Cond.) Split System FC 4 EA 25,000 1,400 Condensate Pump 4 EA 350.00 1,400 1,400 Temperature Control/CO2 136,000 SF 9.50 1,292,000 Seismic & vibrator control 1 LS 40,000.00 40,000 Rigging 1 LS 200,000.00 200,000 S	F VAV Box	130,000	E A	0.50	38,000
CVK 10 EA 330.00 $33,000$ EPDM wrap 1,500 SF 12.00 $18,000$ Kitchen hood exhaust duct - welded $2,000$ LBS 20.50 $41,000$ Fire wrap at duct $1,000$ SF 9.00 $9,000$ PEV 1 EA $3,000.00$ $3,000$ Exhaust Fan: 1 EA $2,500.00$ $2,500$ KEF - 1 1 EA $6,500.00$ $6,500$ Kiln Fan 1 EA $2,800.00$ $2,800$ EF 3 EA $1,800.00$ $5,400$ Split System (Includes Condenser/Indoor/Ref/Cond.) Split System FC 4 EA $22,000.00$ $88,000$ Condensate Pump 4 EA 350.00 $1,400$ Temperature Control/CO2 136,000 SF 9.50 $1,292,000$ Seismic & vibrator control 1 LS $40,000.00$ $40,000$ Rigging 1 LS $200,000.00$ $200,000$ Contraction 140 HRS 110.00		40		550.00	5 500
EPDM wrap1,500SF 12.00 $18,000$ Kitchen hood exhaust duct - welded2,000LBS 20.50 $41,000$ Fre wrap at duct1,000SF 9.00 $9,000$ PEV1EA $3,000.00$ $3,000$ Exhaust Fan:1EA $2,500.00$ $2,500$ Dish washer Exhaust1EA $2,500.00$ $2,500$ KEF - 11EA $2,800.00$ $2,800$ EF3EA $1,800.00$ $5,400$ Split System (Includes Condenser/Indoor/Ref/Cond.)Split System FC4EACondensate Pump4EA 350.00 $1,400$ Temperature Control/CO2136,000SF 9.50 $1,292,000$ Seismic & vibrator control1LS $40,000.00$ $40,000$ Rigging1LS $200,000.00$ $200,000$ Test and balance136,000GSF 0.65 $88,400$ Commission coordination340HRS 110.00 $37,400$ Supervision/ Permit1LS $200,000.00$ $200,000$		10	EA	330.00	3,300
Kitchen hood exhaust duct - welded2,000LBS20.5041,000Fire wrap at duct1,000SF9.009,000PEV1EA3,000.003,000Exhaust Fan:1EA2,500.002,500Dish washer Exhaust1EA2,500.002,500KEF - 11EA6,500.006,500Kiln Fan1EA2,800.002,800EF3EA1,800.005,400Split System (Includes Condenser/Indoor/Ref/Cond.)523Split System FC4EA22,000.0088,000Condensate Pump4EA350.001,400Temperature Control/CO2136,000SF9.501,292,000Seismic & vibrator control1LS200,000.00200,000Rigging1LS200,000.00200,000Test and balance136,000GSF0.6588,400Commission coordination340HRS110.0037,400Supervision/ Permit1LS200,000.00200,000	EPDM wrap	1,500		12.00	18,000
Fire wrap at duct1,000SF9.009,000PEV1EA3,000.003,000Exhaust Fan:1EA2,500.002,500Dish washer Exhaust1EA2,500.002,500KEF - 11EA6,500.006,500Kiln Fan1EA2,800.002,800EF3EA1,800.005,400Split System (Includes Condenser/Indoor/Ref/Cond.)Split System FC4EASplit System FC4EA350.001,400Condensate Pump4EA350.001,400Temperature Control/CO2136,000SF9.501,292,000Seismic & vibrator control1LS40,000.0040,000Rigging1LS200,000.00200,000Test and balance136,000GSF0.6588,400Commission coordination340HRS110.0037,400Start-Up340HRS110.0037,400	Kitchen hood exhaust duct - welded	2,000	LBS	20.50	41,000
PEV1EA $3,000.00$ $3,000$ Exhaust Fan: Dish washer Exhaust1EA $2,500.00$ $2,500$ KEF - 11EA $6,500.00$ $6,500$ Kiln Fan1EA $2,800.00$ $2,800$ EF3EA $1,800.00$ $5,400$ Split System (Includes Condenser/Indoor/Ref/Cond.)54EA $22,000.00$ $88,000$ Condensate Pump4EA 350.00 $1,400$ Temperature Control/CO2136,000SF 9.50 $1,292,000$ Seismic & vibrator control1LS $200,000.00$ $200,000$ Rigging1LS $200,000.00$ $200,000$ Commission coordination 340 HRS 110.00 $37,400$ Supervision/ Permit1LS $200,000.00$ $200,000$	Fire wrap at duct	1,000	SF	9.00	9,000
Exhaust Fan: I EA 2,500.00 2,500 Dish washer Exhaust 1 EA 2,500.00 2,500 KEF - 1 1 EA 6,500.00 6,500 Kiln Fan 1 EA 2,800.00 2,800 EF 3 EA 1,800.00 5,400 Split System (Includes Condenser/Indoor/Ref/Cond.) Split System FC 4 EA 22,000.00 88,000 Condensate Pump 4 EA 350.00 1,400 Temperature Control/CO2 136,000 SF 9.50 1,292,000 Seismic & vibrator control 1 LS 200,000.00 200,000 Rigging 1 LS 200,000.00 200,000 Test and balance 136,000 GSF 0.65 88,400 Commission coordination 340 HRS 110.00 37,400 Start-Up 340 HRS 110.00 37,400 Supervision/ Permit 1 LS 200,000.00 200,000	PEV	I	EA	3,000.00	3,000
Dish washer Exhaust1EA $2,500.00$ $2,500$ KEF - 11EA $6,500.00$ $6,500$ Kiln Fan1EA $2,800.00$ $2,800$ EF3EA $1,800.00$ $5,400$ Split System (Includes Condenser/Indoor/Ref/Cond.) 5 EA $1,800.00$ $88,000$ Condensate Pump4EA $22,000.00$ $88,000$ Temperature Control/CO2136,000SF 9.50 $1,292,000$ Seismic & vibrator control1LS $40,000.00$ $40,000$ Rigging1LS $200,000.00$ $200,000$ Test and balance136,000GSF 0.65 $88,400$ Commission coordination 340 HRS 110.00 $37,400$ Start-Up 340 HRS 110.00 $37,400$ Supervision/ Permit1LS $200,000.00$ $200,000$	Exhaust Fan:	_	-	• • • • • • •	
KEF - 11EA $6,500.00$ $6,500$ Kiln Fan1EA $2,800.00$ $2,800$ EF3EA $1,800.00$ $5,400$ Split System (Includes Condenser/Indoor/Ref/Cond.) 4 EA $22,000.00$ $88,000$ Condensate Pump4EA 350.00 $1,400$ Temperature Control/CO2136,000SF 9.50 $1,292,000$ Seismic & vibrator control1LS $40,000.00$ $40,000$ Rigging1LS $200,000.00$ $200,000$ Test and balance136,000GSF 0.65 $88,400$ Commission coordination 340 HRS 110.00 $37,400$ Start-Up 340 HRS 110.00 $37,400$ Supervision/Permit1LS $200,000.00$ $200,000$	Dish washer Exhaust	1	EA	2,500.00	2,500
Kiln Fan1EA $2,800.00$ $2,800$ EF3EA $1,800.00$ $5,400$ Split System (Includes Condenser/Indoor/Ref/Cond.)Split System FC4EA $22,000.00$ $88,000$ Condensate Pump4EA 350.00 $1,400$ Temperature Control/CO2136,000SF 9.50 $1,292,000$ Seismic & vibrator control1LS $40,000.00$ $40,000$ Rigging1LS $200,000.00$ $200,000$ Test and balance136,000GSF 0.65 $88,400$ Commission coordination 340 HRS 110.00 $37,400$ Start-Up 340 HRS 110.00 $37,400$ Supervision/Permit1LS $200,000.00$ $200,000$	KEF - 1	1	EA	6,500.00	6,500
EF 3 EA 1,800.00 5,400 Split System (Includes Condenser/Indoor/Ref/Cond.) 5 4 EA 22,000.00 88,000 Condensate Pump 4 EA 350.00 1,400 Temperature Control/CO2 136,000 SF 9.50 1,292,000 Seismic & vibrator control 1 LS 40,000.00 40,000 Rigging 1 LS 200,000.00 200,000 Test and balance 136,000 GSF 0.65 88,400 Commission coordination 340 HRS 110.00 37,400 Start-Up 340 HRS 110.00 37,400 Supervision/ Permit 1 LS 200,000.00 200,000	Kiln Fan	1	EA	2,800.00	2,800
Split System (Includes Condenser/Indoor/Ref/Cond.) Split System FC 4 EA 22,000.00 88,000 Condensate Pump 4 EA 350.00 1,400 Temperature Control/CO2 136,000 SF 9.50 1,292,000 Seismic & vibrator control 1 LS 40,000.00 40,000 Rigging 1 LS 200,000.00 200,000 Test and balance 136,000 GSF 0.65 88,400 Commission coordination 340 HRS 110.00 37,400 Start-Up 340 HRS 110.00 37,400 Supervision/ Permit 1 LS 200,000.00 200,000	EF	3	EA	1,800.00	5,400
Split System FC 4 EA 22,000.00 88,000 Condensate Pump 4 EA 350.00 1,400 Temperature Control/CO2 136,000 SF 9.50 1,292,000 Seismic & vibrator control 1 LS 40,000.00 40,000 Rigging 1 LS 200,000.00 200,000 Test and balance 136,000 GSF 0.65 88,400 Commission coordination 340 HRS 110.00 37,400 Start-Up 340 HRS 110.00 37,400 Supervision/ Permit 1 LS 200,000.00 200,000	Split System (Includes Condenser/Indoor/Ref/Cond.)				
Condensate Pump 4 EA 350.00 1,400 Temperature Control/CO2 136,000 SF 9.50 1,292,000 Seismic & vibrator control 1 LS 40,000.00 40,000 Rigging 1 LS 200,000.00 200,000 Test and balance 136,000 GSF 0.65 88,400 Commission coordination 340 HRS 110.00 37,400 Start-Up 340 HRS 110.00 37,400 Supervision/ Permit 1 LS 200,000.00 200,000	Split System FC	4	EA	22,000.00	88,000
Temperature Control/CO2136,000SF9.501,292,000Seismic & vibrator control1LS40,000.0040,000Rigging1LS200,000.00200,000Test and balance136,000GSF0.6588,400Commission coordination340HRS110.0037,400Start-Up340HRS110.0037,400Supervision/ Permit1LS200,000.00200.000	Condensate Pump	4	EA	350.00	1,400
Seismic & vibrator control1LS40,000.0040,000Rigging1LS200,000.00200,000Test and balance136,000GSF0.6588,400Commission coordination340HRS110.0037,400Start-Up340HRS110.0037,400Supervision/ Permit1LS200,000.00200.000	Temperature Control/CO2	136,000	SF	9.50	1,292,000
Rigging 1 LS 200,000 200,000 Test and balance 136,000 GSF 0.65 88,400 Commission coordination 340 HRS 110.00 37,400 Start-Up 340 HRS 110.00 37,400 Supervision/ Permit 1 LS 200,000.00 200,000	Seismic & vibrator control	1	LS	40,000.00	40,000
Test and balance 136,000 GSF 0.65 88,400 Commission coordination 340 HRS 110.00 37,400 Start-Up 340 HRS 110.00 37,400 Supervision/ Permit 1 LS 200,000,00 200,000	Rigging	1	LS	200,000.00	200,000
Commission coordination 340 HRS 110.00 37,400 Start-Up 340 HRS 110.00 37,400 Supervision/ Permit 1 LS 200.000.00 200.000	Test and balance	136,000	GSF	0.65	88,400
Start-Up 340 HRS 110.00 37,400 Supervision/ Permit 1 LS 200.000.00 200.000	Commission coordination	340	HRS	110.00	37.400
Supervision/ Permit 1 LS 200.000.00 200.000	Start-Up	340	HRS	110.00	37.400
	Supervision/ Permit	1	LS	200.000.00	200.000

Clinton Middle School - Schematic 2/8			2/8/2024	
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
SUB-TOTAL				12,310,034
TOTAL D30 - HVAC	\$90.51 /sf			12,310,034
D40 - FIRE PROTECTION				
D4010 SPRINKLERS				
210001 FIRE SUPPRESSION*				
8" BF Preventer Assembly Wet valve assembly Butterfly Valve Elec. bell Siamese fire dept connection Standpipe Ctrl Valve 4" Roof Hydrant	1 2 1 1 3 3	EA LS LS LS EA EA	$\begin{array}{c} 15,000.00\\ 3,500.00\\ 2,000.00\\ 1,500.00\\ 1,350.00\\ 1,650.00\\ 1,500.00\end{array}$	$15,000 \\ 7,000 \\ 4,000 \\ 1,500 \\ 1,350 \\ 4,950 \\ 4,500$
Fire Dept. Connection: 2 1/2" FDV FDC ZCVA - 4" Tamper sw	1 1 2 8	EA EA EA EA	1,850.00 1,650.00 2,450.00 225.00	1,850 1,650 4,900 1,800
Heads w/ Branch: Concealed head Upright head Sidewall Head Dry head	1,400	EA	425.00	595,000 incl. above incl. above incl. above incl. above
Sch. 10: Drain 3" Main 4"-6"	180 3,764	LF LF	50.00 75.00	9,000 282,300
Coring and firesafing Misc. Valves and Gauges Hydraulic Calcs Test, as built Supervision	1 1 1 1 1	LS LS LS LS	7,500.00 15,000.00 5,500.00 15,000.00 75,000.00	7,500 15,000 5,500 15,000 75,000
SUB-TOTAL				1,052,800

TOTAL D40 - FIRE PROTECTION	\$7.74 /sf	1,052,800

D50 - ELECTRICAL

D5010 ELECTRICAL SERVICE & DISTRIBUTION

260001 ELECTRICAL*

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Lighting Fixtures:				
Exit	62	EA	450.00	27,900
AD8	380	EA	850.00	323,000
B2	50	EA	280.00	14,000
B4	19	EA	380.00	7,220
C	88	EA	280.00	24,640
CP1	20	EA	1,800.00	36,000
D	539	EA	380.00	204,820
GE	30	EA	650.00	19,500
K2	62	EA	280.00	17,360
LP8	24	EA	950.00	22,800
RP1	2	EA	480.00	960
SW4	17	EA	300.00	5,100
U2	141	EA	280.00	39,480
ZW3	28	EA	650.00	18,200
BackBox	1,462	EA	48.00	70,176
MC-12/2 w/G	33,860	LF	3.30	111,738
EMT-3/4"C - 3#12	10,000	LF	9.00	90,000
Lighting Control	136,000	GSF	2.60	353,600
Power Wiring Devices:				
Gym equip group control sys installation				
& wiring	1	LS	6,170.00	6,170
Br. Ckt - EMT-3/4"C-3#10 & 1#12	2,200	LF	7.30	16,060
WP GFI	46	EA	81.00	3,726
GFI	220	EA	73.60	16,192
Duplex	310	EA	66.60	20,646
Duplex Switched	557	EA	115.00	64,055
Double duplex Switched	222	EA	145.00	32,190
Smart gym touch pnl	1	EA	1,500.00	1,500
Gym motorized BB	6	EA	415.00	2,490
J - shot clock power	2	EA	180.00	360
Smart gym relay pnl & processor	l	EA	320.00	320
60/40 kiln	l	EA	775.00	775
J-box w/conn	5	EA	157.00	785
FB	65	EA	1,150.00	/4,/50
Floor core	65	EA	3/5.00	24,375
Gymnasium Wireguards			5,000.00	5,000
MC-12/2 W/g	90,000		3.30	297,000
EM1-3/4"C-3#12	25,000	LF	9.00	225,000
Lighting Protection	136,000	SF	0.70	95,200
Mechanical Wiring	136,000	SF	3.00	408,000
Misc. Electrical Requirements:				
Kitchen power & conns	1	EA	25,000.00	25,000
Cell Phone Repeater System		N/A		
Rath Two Way communication System	1	LS	15,000.00	15,000
Fire Alarm System & BDA:			105 000 00	105 005
BDA system w/antenna - complete	1	EA	125,000.00	125,000
M-box conduit & cable	150	LF	7.60	1,140
2"C Standpipe for BDA	2	EA	245.00	490
EMI-2"C w/radial cable	110	LF	12.10	1,331

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Digital dialer (2 line)	1	EA	160.00	160
FACP main control pnl	1	EA	27,500.00	27,500
VEP voice evac pnl	1	EA	4,120.00	4,120
PEP power extender pnl	1	EA	1,230.00	1,230
Red beacon	1	EA	485.00	485
ANN remote annun w/voice control	4	EA	7,900.00	31,600
KB ext knox box	2	EA	660.00	1,320
FSD	24	EA	800.00	19,200
Heat Detector	1	EA	410.00	410
Horn/Strobe	362	EA EA	3/3.00	135,020
Smoke	166	EA FA	325.00	53 950
Smoke Duct	24	EA FA	565.00	13 560
Stroke	24	EA	320.00	7 680
Remote Alarm Indicator	19	EA	280.00	5.320
Switches	17	ĒA	175.00	2,975
CM - control module	23	EA	730.00	16,790
FAA	4	EA	480.00	1,920
J 4" Sq w/ DR	822	EA	48.00	39,456
Programming & pretest	1	EA	7,500.00	7,500
CFD testing & cert	1	EA	2,500.00	2,500
Flow & air testing	1	EA	640.00	640
AFC #4901 MC 16/2 & 14/2	14,500	LF	4.20	60,900
MC-4/C #14 red jacket	8,000	LF	3.30	26,400
EMT-3/4"C - 4/C#14	2,500	LF	9.00	22,500
Switchgear Panels & Xfmrs:				
Electrical Service & Distribution:		T ~	• • • • • • • • •	• • • • • • •
4,000 amp MSB - 1	l		250,000.00	250,000
EMSB 1200A	1	EA	65,000.00	65,000
Benels	1	LS	7,500.00	7,500
	2	ΕA	2 400 00	7 200
1004	9	ΕA	2,400.00	36,900
125A	12	EA	4 200 00	50,900
150A	4	EA	4,500.00	18.000
225A	4	ĒA	4.800.00	19,200
250A	4	EA	5,400.00	21,600
400A	1	EA	6,100.00	6,100
800A	1	EA	7,500.00	7,500
Transformer				
30 KVA	6	EA	3,300.00	19,800
45KVA	1	EA	6,220.00	6,220
75 KVA	4	EA	8,500.00	34,000
225 KVA	12(000	EA	12,500.00	12,500
Panel Feeders	136,000	GSF	3.00	408,000
500 kw Diesel	1	EA	350,000.00	350,000
400A Nema MTS	1	EA	6,000.00	6,000
1200A Portable Gen Dock		w/ Gen		
AI 5-400A		w/ Gen		
AIO-1200A Receive rig. set (hoom)	1	w/ Gen	11 1/0 00	11 140
Receive fig Set (00011) Block htr & hat charger	l 1	EA FA	11,140.00 220.00	11,140
Bldg mtd FPO	1 1	ΕA FA	820.00 820.00	520 820
EPO Push Button	1	EA	540.00	540
Gen Remote Annunciator	1	ĒA	480.00	480

Clinton	Middle	School	- Schematic
CIIIIOI	windunc	SCHOOL	- Senematic

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
PV Panels -Roof mtd		W/ Alt		
PVC Rough-in	1	LS	50,000.00	50,000
Temp Power and Light	136,000	GSF	1.00	136,000
281000:				
Integrated security systems				
CAM - Interior	45	EA	1,850.00	83,250
CAM - Exterior	12	EA	2,250.00	27,000
Motion Detector Magnetic Deer Contacts	34	EA	320.00	10,880
Video Intercom	66	EA EA	385.00	25,410
CR	4	EA EA	1,400.00	38 750
FI	54	EA FA	385.00	20,790
DO	7	EA	450.00	3,150
Door Switch	57	EA	280.00	15,960
TS	31	ĒA	400.00	12,400
REX	31	EA	650.00	20,150
Panic Button	5	EA	400.00	2,000
Door Release Button	1	EA	600.00	600
ECS	75	EA	2,500.00	187,500
Siren	16	EA	500.00	8,000
Key Pad	2	EA	880.00	1,760
IMS	l	EA	5,500.00	5,500
VMS	1	EA	1,800.00	1,800
Door Power Supply	57	EA	670.00	16,080
Let with Lord End	l 1	EA	50,000.00	50,000
Comera license	1	EA EA	25,000.00	25,000
CAT 6A	14 880		2.00	29,760
Belson Security cabling	10,500		1 64	17 220
Programming Setun and testing	10,500	LI	50 000 00	50,000
Active shooter duress system		NIC	20,000.00	20,000
Vape detection		NIC		
POE Switch	4	EA	10,000.00	40,000
Video Server	2	EA	18,500.00	37,000
Sections 27100, 274000, 275000, 281000:				
27 10 00. Communications-Tel/Data & A-V Cabling				
WAP	127	EA	650.00	82,550
Data D2	63	EA	480.00	30.240
Data D4	10	ĒA	650.00	6,500
Voice /Data	132	EA	480.00	63,360
Wall phone	78	EA	400.00	31,200
TVC/TVE	79	EA	480.00	37,920
Video Outlet	1	EA	400.00	400
MDF	1	EA	12,000.00	12,000
IDF	3	EA	9,500.00	28,500
Structured Cabling	l	LS	250,000.00	250,000
inetwork switches	I	LS	400,000.00	400,000
AV and Local Sound:				
Band & Music	1	LS	75,000.00	75,000
Gym	1	LS	75,000.00	75,000
Classrooms		w/FFE		

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Digital Signage Cafeteria	1	w/FFE LS	75,000.00	75,000
Theatrical Lighting and Diming - café	1	ALLOW	75,000.00	75,000
Speech Reinforcement	60	EA	3,150.00	189,000
PA and Clock System: Clock System Clock PA Speaker/TB PA Head end	115 186 1	EA EA LS	225.00 550.00 60,000.00	25,875 102,300 60,000
12% OH&P DJE	1 1	LS LS	868,470.12 300,000.00	868,470 300,000
SUB-TOTAL				8,405,721
TOTAL D50 - ELECTRICAL	\$61.81	/sf		8,405,721
				,
E. EQUIPMENT & FURNISHINGS				
E10 - EQUIPMENT				
E1010 COMMERCIAL EQUIPMENT				
114000 FOOD SERVICE EQUIPMENT				
Kitchen equipment & casework	1	LS	650,000.00	650,000
SUB-TOTAL				650,000
E1090 OTHER EQUIPMENT				
111300 LOADING DOCK EQUIPMENT				
Loading dock bumper	1	LS	2,500.00	2,500
113100 APPLIANCES				
Staff Lunch Rm (1 EA): Refrigerator w/ icemaker	1	EA	1,500.00	1,500
Teacher Planning (2 EA): Refrigerator w/ icemaker	2	EA	1,500.00	3,000
Health Suite (1 LOC): Refrigerator w/ icemaker	1	EA	1,500.00	1,500
Adult Daily Living Rm (1 LOC): Refrigerator w/ icemaker Washer	1	EA EA	1,500.00 2,000.00	1,500 2,000

Clinton Middle	School	- Schematic
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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Dryer Kitchen Appliance	1	EA TBD	2,000.00	2,000
Main Kitchen/Custodian -Allow:				
Washer Dryer	1 1	EA EA	2,000.00 2,000.00	2,000 2,000
Allow: ECT Electric cooktop ER Electric range WO Microwave oven combo wall oven MR Microwave over range M Microwave ctr top DW Dishwasher DW/ADA Access. Dishwasher F Freezer RH Range hood		TBD TBD TBD TBD TBD TBD TBD TBD		
Science rm Appliance		W /119000		
116623 GYMNASIUM EQUIPMENT				
Main Gym: Wall padding (7'H) Volley ball net, std sleeves & equip Badminton net, std sleeves & equip Batting Cage 12x12x70 (116623)	800 1 1 1	SF LS LS LS	17.00 1,800.00 1,800.00 5,000.00	13,600 1,800 1,800 5,000
Bleacher (12 row 126613)	504	SEAT	200.00	100,800
Calming Rm (3 EA): Wall padding	500	SF	17.00	8,500
116624 BASKETBALL GYM EQUIPMENT				
Clg Mtd Basketball backstops - electric	6	EA	10,200.00	61,200
116643 SCOREBOARDS				
Scoreboard w/ shot clocks	1	LS	30,000.00	30,000
116653 GYMNASIUM DIVIDERS				
Motorized divider (66' X 28'h)	1,848	SF	19.50	36,036
<u>119513 KILNS</u>				
Art kiln	1	EA	4,000.00	4,000
116143 STAGE CURTAINS				
Café Platform - Allow: Stage curtains, tracks & rigging sys.	1	LS	40,000.00	40,000

111320 PROJECTION SCREENS

Elec. Op Projection Screen:

	Clinton	Middle	School	- Schemat	ic
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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Cafe platform (16'w x 10' h) Main gym (20' w x 12'6" h) Media Center (12' w)	1 1 1 2	EA EA EA	20,000.00 25,000.00 15,000.00	20,000 25,000 15,000
119000 MISC. EQUIPMENT	3	EA TBD	/,500.00	22,500
115300 LABOR ATORY FOLUPMENT		122		
Science Class 7 & 8 Equipment (3 EA): Glass drying peg bd Goggle cab	15 3	EA EA	750.00 1,000.00	11,250 3,000
Science Prep Rm 7 & 8 Equipment (3 EA): Refrigerator Dish washer Fume hood Corrosive storage cabinets Flammable material storage cab	3 3 3	EA EA NIC EA NIC	1,500.00 1,200.00 1,000.00	4,500 3,600 3,000
Science Chem Storage Rm (1 EA): Chem storage cabinets Flammable material storage cabinets	1 1	RM RM	1,500.00 1,000.00	1,500 1,000
Life Science Class (1 EA): Glass drying peg bd Goggle cab	5 1	EA EA	750.00 1,000.00	3,750 1,000
Shared Prep Rm Life Sci. /Ind. Arts (1 EA): Refrigerator Freezer	1 1	EA EA	1,500.00 1,500.00	1,500 1,500
Misc Equipment allow: Computer Science (1 EA) Industrial Arts Class (1 EA) Industrial Arts Prep rm (1 EA) Library equipment AV equipment OT/PT equipment		NIC NIC NIC NIC NIC		
SUB-TOTAL				438,836
TOTAL E10 - EQUIPMENT				1,088,836
E20 - FURNISHINGS E 2010 FIXED FURNISHINGS				
<u>122413 WINDOW TREATMENTS</u> Typ Ext Meco Shade - Manual: Punched wind. CW Allow - Motor Op Premium	4,577 1	SF LS	9.50 35.000.00	43,482 35,000

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Int Shades @ HM Borrowed Light: Class / Admin sidelight Misc. int shades	1570 1	SF LS	7.75 5,000.00	12,168 5,000
Skylight Shades		NIC		
064000 ARCHITECTURAL CASEWORK				
Allow: Solid Surf Gym Lobby Bench	54	LF	450.00	24,300
Main Office: M10 Reception desk Mail rm casework -allow M1 Tall storage unit(3084)	24 1 6	LF LS EA	750.00 10,000.00 2,200.00	18,000 10,000 13,200
Media Ctr: M10 Front desk Rear desk Bookcase Custom seat	19 15	LF LF NIC NIC	850.00 650.00	16,150 9,750
Media Work Rm(1 EA): P Lam Counter Sink base (nic counter) Typ base cab (nic counter) Wall cabinet 18"H Wall cabinet 30"H M1 Tall storage unit(4884)	5 3 2 3 2 1	LF LF LF LF EA	$142.00 \\ 230.00 \\ 275.00 \\ 195.00 \\ 235.00 \\ 2,050.00$	710 690 550 585 470 2,050
Maker Space Class(1 EA): M3 & 3A P Lam Counter M3A Sink base (nic counter) M3 Typ base cab (nic counter) M3A Wall cabinet 18"H M3 Wall cabinet 30"H M1 Tall storage unit(4884) M2 Tall storage unit(4884)	16 3 13 3 13 13 4	LF LF LF LF EA EA	$142.00 \\ 230.00 \\ 275.00 \\ 195.00 \\ 235.00 \\ 2,050.00 \\ 2,450.00$	2,272 690 3,575 585 3,055 2,050 9,800
 4- 6th Grade Typ Class (A8.1 21 EA): M3 & 3A P Lam Counter M3A Sink base (nic counter) M3 Typ base cab (nic counter) M3A Wall cabinet 18"H M3 Wall cabinet 30"H M1 Tall storage unit(4884) M2 Tall storage unit(4884) Window wall PL counter(vented) Window wall base cab (nic counter) Window wall open base cab (nic counter) 	210 63 147 63 147 21 21 525 126 399	LF LF LF EA EA LF LF	$\begin{array}{c} 142.00\\ 230.00\\ 275.00\\ 195.00\\ 235.00\\ 2,050.00\\ 2,450.00\\ 180.00\\ 275.00\\ 225.00\end{array}$	29,820 14,490 40,425 12,285 34,545 43,050 51,450 94,500 34,650 89,775
 7 & 8th Grade Class (A8.2 12 EA): M3 P Lam Counter M3 Wall cab(18"H ?) M1 Tall storage unit(4884) M2 Tall storage unit(4884) M4 Window wall p lam counter(vented) 	120 120 12 12 300	LF LF EA LF	$142.00 \\ 195.00 \\ 2,050.00 \\ 2,450.00 \\ 180.00$	17,040 23,400 24,600 29,400 54,000

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Window wall base cab (nic counter)	72	LF	275.00	19,800
Window wall open base cab (nic counter)	228	LF	225.00	51,300
Class Exec. Functioning (1 EA):				
M3 & 3A P Lam Counter	10	LF	142.00	1,420
M3A Sink base (nic counter)	3	LF	230.00	690
M3 Typ base cab (nic counter)	7	LF	275.00	1,925
M3A Wall cabinet 18"H	3		195.00	585
M1 Tall storage unit(4884)	/		235.00	1,045
M2 Tall storage unit(4884)	1	EA	2,050.00	2,030 2,450
Class Health & Wellness (1 EA):				
M3 P Lam Counter	10	LF	142.00	1.420
M3 Typ base cab (nic counter)	10	LF	275.00	2,750
M3 Wall cabinet 30"H	10	LF	235.00	2,350
M1 Tall storage unit(4884)	1	EA	2,050.00	2,050
M2 Tall storage unit(4884)	1	EA	2,450.00	2,450
M4 Window wall p lam counter(vented)	25	LF	180.00	4,500
Window wall base cab (nic counter)	6	LF	275.00	1,650
Window wall open base cab (nic counter)	19	LF	225.00	4,275
SPED ABA & TLC Class (2 EA):				
M11 Coat storage w/ cubby & bench	20	LF	850.00	17,000
M3 & 3A P Lam Counter	20	LF	142.00	2,840
M3A Sink base (nic counter)	6	LF	230.00	1,380
M3 Typ base cab (nic counter)	14		275.00	3,850
M3A wall cabinet 18 H	12		195.00	2,340
M1 Tall storage unit(4884)	8	EA FA	2 050 00	4 100
M2 Tall storage unit(4884)	2	EA	2,450.00	4,900
Window wall counter(vented)	60	LF	180.00	10,800
Window wall base cab (nic counter)	12	LF	275.00	3,300
Window wall open base cab (nic counter)	24	LF	225.00	5,400
SPED-Life Skills Class (1 EA):				
M3 & 3A P Lam Counter	16	LF	142.00	2,272
M3A Sink base (nic counter)	3	LF	230.00	690
M3 Typ base cab (nic counter)	13		275.00	3,575
M3A wall cabinet 18 H	3 12		195.00	285 2055
M1 Tall storage unit(4884)	13		255.00	2,055
M2 Tall storage unit(4884)	1	EA	2,050.00	2,050
Window wall counter(vented)	25	LF	180.00	4,500
Window wall base cab (nic counter)	6	LF	275.00	1,650
Window wall open base cab (nic counter)	19	LF	225.00	4,275
Adult Daily Living Rm (1 LOC):				
M3 & 3A P Lam Counter	16	LF	142.00	2,272
M3A Sink base (nic counter)	3	LF	230.00	690
M3 Typ base cab (nic counter)	13	LF	275.00	3,575
M3A Wall cabinet 18"H	3		195.00	585
Window well DL counter(worted)	13		235.00	3,035
Window wall open base cab (nic counter)	14 14		225.00	2,320
mach wan open ouse eab (me counter)	17		225.00	5,150

Toilet Rm @ Adult Daily Living Rm (1 LOC):

Clinton	Middle	School	- Schematic
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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
M3 P Lam Counter	4	IF	142.00	568
M3 Typ base cab (nic counter)	т Д		275.00	1 100
M3 Wall cabinet 30"H	4	LF	235.00	940
Resource Rm (5 EA):				
M3 & 3A P Lam Counter	45	LF	142.00	6,390
M3A Sink base (nic counter)	15	LF	230.00	3,450
M3 Typ base cab (nic counter)	30		275.00	8,250
M3A wall cabinet 10"H	15		195.00	2,925
M1 Tall storage unit(4884)	5	EA	2,050.00	10,250
Small Group Rm (7 EA):				
M3 & 3A P Lam Counter	63	LF	142.00	8,946
M3A Sink base (nic counter)	21	LF	230.00	4,830
M3 Typ base cab (nic counter)	42	LF	275.00	11,550
M3A Wall cabinet 18"H	21	LF	195.00	4,095
M3 Wall cabinet 30"H	42	LF	235.00	9,870
M1 Tall storage unit(4884)	7	EA	2,050.00	14,350
Science Class 7 & 8 (A8.3 3 EA):	27(IE	205.00	04 100
Epoxy counter Sink hase (nie counter)	270		303.00	84,180
Typ base cab (nic counter)	267		200.00	80,100
Wall cabinet 18"H	9	LF	195.00	1 755
Wall cabinet 30"H	180	LF	235.00	42.300
Student table w/ epoxy top (2460)	36	ĒA	3.300.00	118,800
Demo table w/ epoxy top (2460)	3	EA	6,500.00	19,500
Science Prep Rm 7 & 8 (A8.3 3EA):				
Epoxy counter	96	LF	305.00	29,280
Typ base cab (nic counter)	96	LF	275.00	26,400
Wall cabinet 18"H	9		195.00	1,755
Wall cabinet 30"H M1 Tall storage unit(1984)	8/		235.00	20,445
MT Tan storage unit(4884)	5	EA	2,030.00	0,130
Science Chem. Storage Rm (1 EA): Enoxy counter	12	LF	305.00	3 660
Typ base cab (nic counter)	12	LF	275.00	3,300
Wall cabinet 18"H	3	LF	195.00	585
Wall cabinet 30"H	9	LF	235.00	2,115
Life Science Class (1 EA):				
Epoxy counter	67	LF	305.00	20,435
Sink base (nic counter)	3	LF	230.00	690
Typ base cab (nic counter)	64		275.00	17,600
Wall cabinet 18"H	3		195.00	285
Student table w/ enovy top (2460)	44		255.00	24 000
Demo table w/ epoxy top (2460)	1	EA	3,000.00	3,000
Computer Science (1 EA):				
M3 P Lam Counter	24	LF	142.00	3,408
Typ base cab (nic counter)	24	LF	275.00	6,600
Wall cabinet 30"H	11	LF	235.00	2,585
Student table		NIC		
Demo table w/ epoxy top (2460)		NIC		

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Shared Prep Rm Life Sci. /Comp. Sci. (1 EA):				
Epoxy counter	28	LF	305.00	8,540
Typ base cab (nic counter)	28	LF	275.00	7,700
Wall cabinet 18"H	3	LF	195.00	585
Wall cabinet 30"H	25	LF	235.00	5,875
M1 Tall storage unit(4884)	1	EA	2,050.00	2,050
Industrial Arts Class (1 EA):				
Epoxy counter	17	LF	305.00	5,185
Sink base (nic counter)	3	LF	230.00	690
Typ base cab (nic counter)	14		275.00	3,850
Wall ashingt 20"H	3		195.00	2 200
M1 Tall storage unit(4884)	14		255.00	2,050
M2 Tall storage unit(4884)	1 4	EA	2,050.00	9,800
Student table w/ epoxy top	•	NIC	2,150.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Demo table w/ epoxy top (2460)	1	EA	3,000.00	3,000
Industrial Arts Prep RM (1 EA):				
M1 Tall storage unit(4884)	1	EA	2,050.00	2,050
M2 Tall storage unit (4884)	2	EA	2,450.00	4,900
ART Class (2 EA):				
M3 & 3A P Lam Counter	26	LF	142.00	3,692
M3A Sink base (nic counter)	8	LF	230.00	1,840
M3 Typ base cab (nic counter)	18	LF	275.00	4,950
M3A Wall cabinet 18"H	16	LF	195.00	3,120
M3 Wall cabinet 30"H	10		235.00	2,350
M1 I all storage unit(4884) M2 Tall storage unit(4884)	2	EA	2,050.00	4,100
M7 Tall storage unit(4884)	4	EA E A	2,450.00	9,800 4 900
M4 Window wall n lam counter(vented)	56		180.00	10 080
Window wall base cab (nic counter)	12	LF	275.00	3.300
Window wall open base cab (nic counter)	44	LF	225.00	9,900
Art student table		NIC		,
*Excludes art rm storage rm units				
Band Class Rm (1 LOC):				
M3 & 3A P Lam Counter	11.5	LF	142.00	1,633
M3A Sink base (nic counter)	3	LF	230.00	690
M3 Typ base cab (nic counter)	8.5	LF	275.00	2,338
M3A Wall cabinet 18"H	3	LF	195.00	585
M3 Wall cabinet 30"H	8.5		235.00	1,998
M1 Tall storage unit(4884) M2 Tall storage unit(4884)	1		2,030.00	2,030
Wenger Instrument music storage sys(123551)	1		2,450.00	2,430
Music uniform storage sys(123551)	1	LS	10,000.00	10,000
OT / PT Rm(1 LOC):				
M3 & 3A P Lam Counter	3	LF	142.00	426
M3A Sink base (nic counter)	3	LF	230.00	690
M3A Wall cabinet 18"H	3	LF	195.00	585
M1 Tall storage unit(4884)	1	EA	2,050.00	2,050
M2 Tall storage unit(4884)	2	EA	2,450.00	4,900
Window wall p lam counter(vented)	25		180.00	4,500
window wan base cab (nic counter)	0	LF	2/5.00	1,030

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Window wall open base cab (nic counter)	19	LF	225.00	4,275
Teacher Planning Rm (2 EA):				
M3 & 3A P Lam Counter	12	LF	142.00	1,704
M3A Sink base (nic counter)	6	LF	230.00	1,380
M3 Typ base cab (nic counter)	6	LF	275.00	1,650
M3A Wall cabinet 18"H	6	LF	195.00	1,170
M3 Wall cabinet 30"H	6	LF	235.00	1,410
Staff Lunch Rm (1 EA):				
M3 & 3A P Lam Counter	10	LF	142.00	1,420
M3A Sink base (nic counter)	3	LF	230.00	690
M3 Typ base cab (nic counter)	7	LF	275.00	1,925
M3A Wall cabinet 18"H	3	LF	195.00	585
M3 Wall cabinet 30"H	7	LF	235.00	1,645
Health Suite (1 LOC):				
M3 P I am Counter	19	LF	142.00	2 698
M3 Typ base cab (nic counter)	14	LF	275.00	3,850
M3A Wall cabinet 18"H	9	LI	195.00	1 755
M3 Wall cabinet 30"H	10	LF	235.00	2,350
Miss Commente Allow				
DE L colver me 12" etc	1.0	LE	250.00	4 500
PE Locker III 12° ctr	18		250.00	4,500
Collaborative work area	1		7 500 00	7.500
Trash /recycle sta	1		/,500.00	/,500
Typ Office		NIC		
Custodial Workshop		NIC	15 000 00	15 000
Misc. utility & closet shelving-allow	1		15,000.00	15,000
Misc Arch Casework allowance		NIC		
101153 RECESSED DISPLAY ENCLOSURES				
LCD/Plasma display enclosure	5	EA	750.00	3.750
	-			-,
Display Case Complete: Gym Lobby (14'x 6'6"H)	2	FΔ	12 500 00	25,000
Art Lobby (12'x 6'6"H)	1	EA	10,500.00	10,500
SUB-TOTAL				1,905,475
E2020 MOVABLE FURNISHINGS		NIC		
				0
TOTAL E20 - FURNISHINGS				1,905,475

F. SPECIAL CONSTRUCTION & DEMOLITION

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
F10 - SPECIAL CONSTRUCTION				
F1010 SPECIAL STRUCTURES				
SS shade sail @ café patio(133123) Sound, vibration & seismic Control(134800)		W / G2040 w/ trade cost		
SUB-TOTAL				0
TOTAL F10 - SPECIAL CONSTRUCTION				0
F20 - SELECTIVE BUILDING DEMOLITION				
F2010 BUILDING ELEMENTS DEMOLITION				
024100 DEMOLITION				
BUILDING DEMOLITION	See Gr	and Summary		
SUB-TOTAL				0
F2020 HAZARDOUS COMPONENTS ABATEMENT	See Gr	and Summary		
SUB-TOTAL				0
TOTAL F20 - SELECTIVE BUILDING DEMOLITION				0
G. BUILDING SITEWORK				
G10 - SITE PREPARATION				
G1010 SITE CLEARING				
311000 SITE PREPARATION & CLEARING				
Construction fence Construction entrance pad (1,000 sf/loc) Construction gate Erosion control Inlet protection Erosion control maintenance General site prep	$\begin{array}{r} 4,100\\ 2,000\\ 2\\ 4,100\\ 25\\ 1\\ 700,750\end{array}$	LF SF EA LF EA LS SF	w/ gr w/ gr w/ gr 8.50 110.00 7,500.00 0.15	34,850 2,750 7,500 105,113
New Entry Drive, Emerg Access & HS Conn Rd: Sawcut street Sawcut bit sidewalk	155 20	LF LF	10.50 20.00	1,628 400

W. Boylston St Improvements:

Clinton Middle School - Schematic

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Remove vehicular guardrail		NIC		
Remote Bit Town Sidewalk Remove Street Bit curb		NIC NIC		
Site Removals:				
Bit Pavement - basketball court	17,548	SF	1.00	17,548
Bit Pavement parking/circulation	113,423	SF	1.00	113,423
Conc. Pavement - site walk	11,731	SF	2.00	23,462
Drainage structures & line	1	LS	30,000.00	30,000
Parking & traffic signage	1	LS	5,000.00	5,000
Chain link fence prop line 50%	2,000	SF	16.00	32,000
Bldg sanitary line & structures	1	LS	15,000.00	15,000
Bldg water lines	1	LS	15,000.00	15,000
Transformer & pad	1	LS	5,000.00	5,000
Generator & pad	1	LS	5,000.00	5,000
Utility pole		By Others		
Duct bank	550	LF	65.00	35,750
Site light pole & base	12	EA	500.00	6,000
Flag pole & base	1	EA	500.00	500
Bollards @ equip	15	EA	210.00	3,150
Misc. Utility removal	1	LS	25,000.00	25,000
Baseball/softball backstop & equip	3	LOC	3,500.00	10,500
Basketball hoop	6	EA	500.00	3,000
Basketball court fencing - allow	640	LF	15.00	9,600
Misc. site demolition	700,750	SF	0.10	70,075
Int. court yard demolition	1,650	GSF	5.00	8,250
Temporary Measures:				
Temp sediment basin			w/ gr	
Temporary parking and access			w/ gr	
Snow removal			w/ gr	
Pedestrian and traffic control			w/ gr	
Street sweep and dust control			w/ gr	
			w/ gr	
SUB-TOTAL				585,498
G1020 SITE DEMOLITION & RELOCATIONS		W / G1010		
SUB-TOTAL				0
G1030 SITE EARTHWORK				
310000 EARTHWORK				
Top Soil:				
Strip Top Soil - 12" avg.	17,312	CY	7.00	121,184
Stock pile for reuse - landscaping	6,300	CY	7.00	44,100
Stock pile for reuse - grading	5,506	CY	7.00	38,542
Load and Haul Top soil spoil	5,506	CY	10.00	55,060
Top soil disposal	8,810	TON	50.00	440,480
Site Grading:				
Site Cut	12,804	CY	10.00	128,040

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Respread cut	12,804	СҮ	10.00	128,040
Import fill	854	CY	20.50	17,507
Rough Grading	700,000	SF	0.37	259,000
Respread overexcavation	10,708	CY	10.00	107,080
Respread additional top soil	5,506	CY	10.00	55,060
Allow for over excavate local unsuitable	2,500	CY	70.00	175,000
Ledge Removal		tbd		
SUB-TOTAL				1,569,093
G1040 HAZARDOUS WASTE REMEDIATION	See Gran	d Summary		
SUB-TOTAL				0
TOTAL G10 - SITE PREPARATION				2,154,591
G20 - SITE IMPROVEMENTS				
G2010 ROADWAYS				
321000 PAVEMENT, CURBING & EDGING				
Bit Pavement Site Drive & Parking(C4.4):				
Std top course bit (1 1/2" Wear & 2 1/2" Base) 18" Gravel base @ bit drive	16,037 8 018	SY CY	44.00 65.00	705,628
	0,010	CI	05.00	521,170
Site Vehicular Concrete Paving - Loading Area:	2 200	SE	17 50	38 500
12" Gravel base @ conc drive	81.5	CY	68.00	5,542
Raised Concrete Crosswalk (C4.5 1 LOC):				
Flush Granite Curbing	150	LF	50.00	7,500
9" Concrete Pavement w/ epoxy rebar	1,500	SF CV	19.00	28,500
12 Graver base	50	CI	08.00	5,808
Raised UP Unit Paver- Crosswalk (1 LOC):	170	ΙE	50.00	۹ ۵ 50
UP Unit Paver- Vehicular	1 575	SF	30.00 40.00	63 000
Concrete base slab	1,575	SF	12.00	18,900
12" Gravel base	58	CY	68.00	3,944
Site Granite Curbing:				
Radial	1,808	LF	54.00	97,632
Straight	7,484	LF	50.25	376,071
Cut & Patch Street		W / Utilities		
Porous Pavement Mise Pavement strining/markings	1	N/A	35 000 00	35 000
whoe, i avement surpring/markings	1	LS	55,000.00	55,000

101453 TRAFFIC SIGNAGE

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Parking/Traffic Signage(101453) Flashing School Warning Sign- Solar Power(101453)	1	LS NIC	15,000.00	15,000
SUB-TOTAL				1,929,145
G2020 PARKING LOTS				
*Included with G2010				
SUB-TOTAL				0
G2030 PEDESTRIAN PAVING				
321000 PAVEMENT, CURBING & EDGING				
CP Concrete Pavement -Site Sidewalk (C4.5): 4" Typ Conc pavement w/ wwf 8" Gravel @ conc walk	31,552 782	SF CY	11.25 70.00	354,960 54,740
CP Concrete Pavement - Town Sidewalk:		NIC		
UP Unit Paver- Pedestrian: Unit Paver Sys Conc. base slab 8" Gravel @ unit pavers	6,758 6,758 168	SF SF CY	38.00 10.00 70.00	256,804 67,580 11,760
HC Cast Iron tactile paver (21 loc) Bit Walkway Pavement	140	LF N/A	155.00	21,700
SUB-TOTAL				767,544
G2040 SITE DEVELOPMENT				
033000 CAST IN PLACE CONCRETE				
Loading Dock(1 loc): Wall Footing 2'x1' - 140 lf 12" Concrete Found - 4-8' - 140 lf Stair Foundations	10.5 32	CY CY NIC	575.00 1,200.00	6,038 38,400
Site Ramp Structure Stair Tread Structure		N/A N/A		
040001 MASONRY*				
Site Wall Masonry Cladding		N/A		

050001 MISCELLANEOUS & ORNAMENTAL IRON*

Metal Fabrications - Sitework(055001 ?FSB):

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Ext Guardrail @ loading	100	LF	350.00	35,000
Edge angle (a) loading	50		95.00	4,750
Bollard (a) utilities	8	N/A FA	1 950 00	15 600
Bollard @ elec charge sta	0	tbd	1,550.00	15,000
VG Vehicle Swing gate - dbl elec op	1	EA	28,000.00	28,000
101463 ELECTRONIC MESSAGE SIGNAGE				
SN Digital School Sign- Complete	1	EA	35,000.00	35,000
116813 PLAYGROUND EQUIPMENT				
Playground Equipment Allowance	1	LOC	400,000.00	400,000
116833 ATHLETIC FIELD EQUIPMENT				
BH Basketball hoop	6	EA	4,200.00	25,200
Soccer Goals	2	ĒA	5,500.00	11,000
International corner flags	1	LS	500.00	500
Alum Bleachers		N/A		
Player Bench		NIC		
323100 SITE IMPROVEMENTS				
RS Playground Safety Surface - Poured in Permeable Rubb	per (1 Loc):			
Top surface & Base mat (poured in place)	6,840	SF	40.00	273,600
8" Dense crushed stone	170	CY	70.00	11,900
Filter fabric -allow	6,840	SF	1.10	7,524
Flat drain - allow	6,840	SF	0.50	3,420
Perim flush conc. curb (<i>a</i>) planting	230	LF	/4.00	18,500
SA Stabilized Aggregate Stone Dust Paving:	0.072	QE	(50	50.075
4" Stone dust 8" Danse erushed stone	9,073	SF CV	6.50 70.00	58,975 23,520
Filter Fabric	9 073	SF	1.00	9 073
Metal edge	150	LF	25.00	3,750
BC Bit Basketball Court:				
Bit. pavement (1" wear & 2" base)	986	SY	42.50	41,905
12" Gravel	329	CY	68.00	22,372
Game striping (only)	8,878	SF	2.00	17,756
F Fencing Complete w/ Conc. FTG(323113-323115):				
F Fence Playground - 4'	316	LF	100.00	31,600
G Gate Playground - dbl 6'W	115	EA	4,500.00	4,500
Gate Media Court Vard - 4	115		100.00	11,500
F2 Chain Link Fence @ Athletic Field	1162		4,500.00	98 770
Fence Safety Cap @ F2 Chain Link (116833)	1162	LF	12.00	13.944
G3 Gate Athletic Field - dbl 6'W	2	ĒA	5,000.00	10,000
G2 Gate Athletic Field - dbl 12'W	2	EA	8,500.00	17,000
MS 8'H Mechanical Screen	145	LF	200.00	29,000
G Gate Mechanical Screen - dbl 8'Hx6'W	1	EA	7,500.00	7,500
Note 7/ L2.1 Replace 50% site perim chain link fence	2,000	LF	100.00	200,000

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Misc. Site Amenities:				
B Boardwalk 8' W @ Bio- basin	782	SF	200.00	156,400
BR Bike storage loop	22	EA	875.00	19,250
RP Raised Planter (8 loc -4'W)	155	LF	125.00	19,375
SS shade sail (a) café patio(133123)	3	EA	15,000.00	45,000
SW Seat Wall main entry $(4'x4')$	3	EA	5,000.00	15,000
Sw Seat wall main entry (12° w 4 loc)	50		650.00 5 000 00	32,500
Activity rable $w/(5-4 \text{ sears})$	0	EA EA	5,000.00	50,000
FG Flag Pole main entry 30' h (107500)	2	EA	14,000.00	28,000
Misc. Site Furnishings -Allow:				
Segmental Retaining Wall (323223)		TBD		
Waste Receptacle (spec allow)	8	EA	3,500.00	28,000
2'W Building Drip Edge(A6.1 1,183)	2366	SF	32.00	75,712
Urnamental boulders		NIC		
Rench Secting (spec allow)	6		5 000 00	30,000
Dumpster enclosure	0	NIC	5,000.00	30,000
Gravel Surface Sys @ mech equip enclosure	2,200	SF	8.00	17,600
SUB-TOTAL				2,084,433
G2050 LANDSCAPING				
329000 LANDSCAPING				
Planting Allowance	1	LS	528,000.00	528,000
Shade Tree (4" cal)	190	FΔ	inc w/allow	
Flowering Tree (3" cal)	8	EA	inc. w/ allow	
Coniferous Tree (8-10' ht)	20	EA	inc. w/ allow	
Allow - Plant Bed (22,000 SF):				
Shrub (3 gal)	11,000	SF	inc. w/ allow	
Perennial (1 gal)	11,000	SF	inc. w/ allow	(1.105
12" Loam 2" Mulch @ plant bed	815 139	CY CY	75.00 68.00	61,125 9,452
Allow -Rain Garden (44,200 SF):				
Shrub (3 gal)	22,100		inc. w/ allow	
Perennial (1 gal)	22,100		inc. w/ allow	
Excavate	4,910	CY	11.00	54,010
Load and haul	4,910	CY	8.50	41,735
Soli disposal - verify classification ?	7,856	ION CV	28.00	219,968
18" Soil	2,435		83.00 78.00	191 490
2" Mulch @ rain garden	278	CY	68.00	18,904
Athletic Field (72,575 sf):				
SOD Natural seed sports surf. (329020)	72,575	SF	1.15	83,461
0 Loan - top son ammend 12" Deep stope reserve for stormwater ret	1,544		40.00	33,/39
12 Deep stolle reserv. for stollilwater ret	2,000	UI	45.00	120,900

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Typ Lawn , based upon landscape given areas (nic athletic Hydro seeding - low mow rescue Hydro seeding - turf/sod 6" Loam - top soil ammend	field): 190,300 77,000 4,950	SF SF CY	$0.45 \\ 0.45 \\ 40.00$	85,635 34,650 198,000
Planting Maintenance	1	LS	30,000.00	30,000
328000 IRRIGATION				
Irrigation System - Allow: Drip sys @ plant bed Spray sys @ typ turf/sod Temp sys @ low mow fescue Spray sys @ SOD Natural seed sports surf.	22,000 50,000 77,000 72,575	SF SF SF SF	1.75 1.25 1.25 1.50	38,500 62,500 96,250 108,863
SUB-TOTAL				2,245,937
TOTAL G20 - SITE IMPROVEMENTS				7,027,059
G30 - SITE MECHANICAL UTILITIES G3010 WATER SUPPLY 330000 UTILITIES Street Connection	2	LOC	2 500 00	5 000
Sitect Connection Site Connection 8" Main service 4" Domestic service 6" Fire service Domestic gate valve Fire gate valve Hydrant service Hydrant gate valve Hydrant Misc. main thrust block, gate valve, test & sanitize, Cut & Patch Street	1 1,218 84 84 1 1 76 4 4 1 2	LOC LF LF EA EA EA EA LS LOC	2,300.00 6,000.00 145.00 96.00 110.00 4,000.00 4,000.00 110.00 4,000.00 5,200.00 25,000.00 7,500.00	6,000 6,000 176,610 8,064 9,240 4,000 4,000 8,360 16,000 20,800 25,000 15,000
SUB-TOTAL				298,074
G3020 SANITARY SEWER 330000 UTILITIES				
Site connection (exist man hole) Sanitary manhole 6,000 gal Grease trap - earthwork only Acid Waste Tank Vault - earthwork only Sanitary service	2 4 1 1 711	LOC EA LS LS LF	25,000.00 4,500.00 15,000.00 5,000.00 120.00	50,000 18,000 15,000 5,000 85,320
SOD-IUTAL				1/3,320

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
G3030 STORM SEWER				
330000 UTILITIES				
Trench drain (1 loc)	30	LF	135.00	4,050
24" Area Drain	1	EA	3,200.00	3,200
Drain Manhole	20	EA EA	4,800.00	134,400
Water Quality Structure	2	EA	20,000,00	40 000
Outlet Control Structure	2	N/A	20,000.00	10,000
Flared end w/ rip rap	3	EA	6,500.00	19,500
Perim FND drain connection	1	LS	20,000.00	20,000
Street connection		N/A		
New Pining and Trenching (assumes reuse backfill)				
12-18" (CPP(not sized)	4 665	LF	125.00	583 125
6" CPP athletic field underdrain	974	LF	68.00	66.232
* 12" D stone reserv. for stormwater ret		W/G20		
Directoration Desire (CA 2 Sectod 10.977 CSE 21.00)				
Biorelention Basin (C4.5 - Scaled 10,8// GSF - 5LOC):		W/ G2020		
15" crushed stone	504	W/ 02020	85.00	42 840
4" perf pyc	300	LF	48.00	14 400
Clean out @ 4" perf pvc	3	LF	200.00	600
24" Area Drain @ Bio Basin	3	EA	6,500.00	19,500
4" pea stone	133	CY	100.00	13,300
12" sand	403	CY	85.00	34,255
24" plant soil	805	CY	78.00	62,790
4" Stone mulch	133	CY	150.00	19,950
SUB-TOTAL				1,226,942
G3040 HEATING DISTRIBUTION				
330000 UTILITIES				
Geothermal				
Geothermal Well -800'	26	EA	60,000.00	1,560,000
10 HDPE S&R	800	LF	245.00	196,000
Discharge Permit (EPA)	1	LS	2,500.00	2,500
Dewatering		inc.	40,000,00	10.000
Testing of well	l	EA	40,000.00	40,000
Geothermal Vault	1	LS	65,000.00	65,000
Haul Well spoil	1	LS	50,000.00	50,000
Excavate S&R Trench	800	LF	35.00	28,000
SUB-TOTAL				1,941,500
CAMO OTHER SITE MECHANICAL LITH PRES				
GOUGU OTHER SITE MECHANICAL UTILITIES				

Gas service

Clinton Middle School - Schematic				
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
SUB-TOTAL				0
TOTAL G30 - SITE MECHANICAL UTILITIES				3,639,836
G40 - SITE ELECTRICAL UTILITIES				
G4010 ELECTRICAL DISTRIBUTION				
330000 UTILITIES				
Transformer pad Generator Pad Blast wall	1 1 1	EA EA EA	3,500.00 4,000.00	3,500 4,000 0
Ext. Trench, Backfill and Concrete: Primary Duct Bank Secondary Duct bank Tel/Data Duct bank Elec car charge sta	815 55 890 1	LF LF LF LS	$135.00 \\ 135.00 \\ 135.00 \\ 20,000.00$	110,025 7,425 120,150 20,000
260001 ELECTRICAL*				
Site Electrical: Demo and disconnect	1	LS	35,000.00	35,000
HH Handhole T xfmr pad grounding T xfmr pad sleeves & 90 deg MH Manhole F&I by E.C. MH Manhole grounding & racks Exist. utility pole dressing Primary- (2) 4" PVC-w/P.S. Secondary - (4) 4" PVC-w/P.S. T/D - (2) 4" PVC-w/P.S.	4 1 1 2 1 1,630 220 1,800	EA EA EA EA EA LF LF LF	$\begin{array}{c} 1,100.00\\ 2,700.00\\ 650.00\\ 11,250.00\\ 1,800.00\\ 2,650.00\\ 14.50\\ 14.50\\ 14.50\\ 14.50\end{array}$	$\begin{array}{r} 4,400\\ 2,700\\ 650\\ 11,250\\ 3,600\\ 2,650\\ 23,635\\ 3,190\\ 26,100\\ \end{array}$
EV Conduit & Rough-in EV Dual Pedestal	1 7	LS EA	25,000.00 15,000.00	25,000 105,000
Power Distribution: Secondary (4) #600 mcm Generator feed	220 1	LF LS	275.00 50,000.00	60,500 50,000
OH&P 12% DJE	1 1	LS LS	29,181.00 15,000.00	29,181 15,000
SUB-TOTAL				662,956
G4020 SITE LIGHTING				
330000 UTILITIES				
New Site Lighting: Site light trenching	4,834	LF	13.00	62,842

Clinton Middle School - Schematic				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Concrete Pole Base: Roadway and Parking Pole Base Pedestrian Light Pole	38	EA N/A	950.00	36,100
260001 ELECTRICAL*				
Exterior Site/Elec/Lighting: 20' roadway pole 20' roadway pole (Double) SL6 - upplight CCTV camera pole prep Flagpole grounding HH handhole 15"x22"x18"D Pole base grounding Pole base anchor bolt sys Pole base sleeves & 90 deg PVC-1 1/4"C-2#4 & 1#6	31 7 3 3 4 38 38 38 38 38 4,834	EA EA EA EA EA EA EA EA EA EA	$2,740.00 \\ 3,250.00 \\ 660.00 \\ 315.00 \\ 940.00 \\ 150.00 \\ 56.00 \\ 130.00 \\ 10.50 \\ \end{cases}$	84,940 22,750 1,980 945 3,760 5,700 2,128 4,940 50,757
OH&P 15% DJE	1 1	LS LS	26,685.00 15,000.00	26,685 15,000
SUB-TOTAL				318,527
TOTAL G40 - SITE ELECTRICAL LITH ITIES				981 483

Clinton Middle School Alternates				2/8/2024
DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
ALTERNATE NO. 1 - IN LIEU OF NATURAL GR ARTIFICIAL TURF	ASS SUBSTIT	UTE		
Deduct: SOD Natural seed sports surf. (329020) 6" Loam - top soil Irrigation spray sys @ SOD Natural seed sports sur: 12" Deep stone reserve. for stormwater ret 6" CPP athletic field underdrain	-72,575 -1,344 -72,575	SF CY SF IN BASE IN BASE	1.10 40.00 1.50	-79,833 -53,760 -108,863
Add (L2.3A): Synthetic turf field Perim. conc anchor curb (14" x 24") w/ gravel base 6" Drainage Layer Filter fabric	72,575 1,124 1,344 72,575	SF LF CY SF	9.00 78.00 68.00 1.00	653,175 87,672 91,392 72,575
SUBTOTAL MARKUPS		21.00	2⁄0	662,359 139,095
TOTAL				801,454

4.1.2 SCHEMATIC DESIGN BINDER

Q. OPM-CM Construction Cost Estimate


SCHEMATIC DESIGN | RECONCILED ESTIMATE

CLINTON MIDDLE SCHOOL PROJECT

FEBRUARY 8, 2024

CLINTON, MA 01510 PROJECT #2602

FONTAINE BROS., INC. | T: 413.781.2020 | 12 E WORCESTER STREET WORCESTER, MA 01604 | 510 COTTAGE STREET SPRINGFIELD, MA 01104

FONTAINE



Town of Clinton Clinton Middle School OPM - Dore + Whittier

Project name	Clinton Middle School 100 W Boylston St. Clinton MA 01510
Architect	Lamoureux Pagano Associates
Document	SD
Estimator	Fontaine Bros.
Job size	136000 sf



	CSI Division		Cost/SF	Total Amount
02-0000	EXISTING CONDITIONS & DEMO	136,000 sf	24.36 /sf	\$ 3,312,500
03-0000	CONCRETE	136,000 sf	28.23 /sf	\$ 3,839,756
04-0000	MASONRY	136,000 sf	20.30 /sf	\$ 2,760,148
05-0000	METALS	136,000 sf	52.63 /sf	\$ 7,157,300
06-0000	ROUGH CARPENTRY	136,000 sf	3.44 /sf	\$ 467,755
06-2000	FINISH CARPENTRY	136,000 sf	2.82 /sf	\$ 383,468
07-0000	THERMAL & MOIST PROTECT	136,000 sf	17.86 /sf	\$ 2,429,580
07-5000	ROOFING	136,000 sf	19.26 /sf	\$ 2,620,000
07-7000	ROOF & WALL ACCESSORIES	136,000 sf	0.93 /sf	\$ 126,551
07-8000	FIREPROOFING / CAULKING	136,000 sf	3.39 /sf	\$ 460,800
08-0000	DOORS & WINDOWS	136,000 sf	31.67 /sf	\$ 4,307,740
09-0000	FINISHES	136,000 sf	73.32 /sf	\$ 9,970,859
10-0000	SPECIALTIES	136,000 sf	7.21 /sf	\$ 980,010
11-0000	EQUIPMENT	136,000 sf	8.15 /sf	\$ 1,108,150
12-0000	FURNISHINGS	136,000 sf	15.62 /sf	\$ 2,123,980
14-0000	CONVEYING SYSTEMS	136,000 sf	1.58 /sf	\$ 215,000
21-0000	FIRE SUPRESSION	136,000 sf	8.15 /sf	\$ 1,108,276
22-0000	PLUMBING	136,000 sf	27.98 /sf	\$ 3,805,067
23-0000	HVAC	136,000 sf	87.32 /sf	\$ 11,875,640
26-0000	ELECTRICAL	136,000 sf	38.29 /sf	\$ 5,206,787
27-0000	COMMUNICATIONS	136,000 sf	12.24 /sf	\$ 1,665,037
28-0000	ELECTRONIC SAFETY & SECURITY	136,000 sf	10.06 /sf	\$ 1,367,645
31-0000	EARTHWORK	136,000 sf	46.01 /sf	\$ 6,257,390
32-0000	EXTERIOR IMPROVEMENTS	136,000 sf	59.17 /sf	\$ 8,046,851
33-0000	UTILITIES	136,000 sf	18.03 /sf	\$ 2,452,679
		Tota	al Direct Cost	\$ 84,048,967
		Design (Contingency	\$ 8,404,897
			Escalation	\$ 5,042,938
		Construction (Contingency	\$ 1,680,979
		Subcontractor Defau	lt Insurance	\$ 1,239,722
		Project Re	quirements	\$ 4,425,600
			GC's & GR's	\$ 7,169,858
			CM Fee	\$ 2,285,979
		Pro	iect Toal	\$ 114.298.940



Interm Description Taken Org Unit Continue 01-0000.000 PROJECT REQUIREMENTS 01-10000.000 PROJECT REQUIREMENTS 01-10000.000 PROJECT REQUIREMENTS 01-10000.000 Certemonial Costs (Groundheading, Topping Off, Chronocuting, etc) - GMP Allowance value to be negotiated at time of GMP 01-10000.000 Projecting Costs (Groundheading, Topping Off, Chronocuting, etc) - GMP Allowance value to be negotiated at time of GMP 01-10000.000 Projecting Costs (Groundheading, Topping Off, Chronocuting, etc) - GMP Allowance value to be negotiated at time of GMP 01-10000.000 Projecting Costs (Groundheading, etc) 01-100000.000 Projecting Stating Blackito 01-10000000 Projecting Stating Blackito 01-10000000 Projecting Stating Blackito 01-100000000 Projecting Stating Blackito 01-10000000000 Projecting Stating Blackito 01-100000000000000 Projecting Stating Blackito 01-10000000000000000000000000 Projecting Stating Blackito 02-00000000000000000000000000000000000		Total			
Ottomoto PROJECT REQUIREMENTS DITADOM ON Description of the construction of the constructio	Amount	Unit Cost	Takeoff Qty	Description	Item
Defension General Requirements General Costs (Groundbreaking, Topping Off, Ribbon Cutting, etc) - GMP Allowance value to be negotiated at time of GMP Debris Control, Removal and Dumpsters Winter Conditions (General) Demporary Electric Consumption Staging and Hoisting Safety Materials (guardrails, railing, etc.) Final Cleaning for Site and Building Project and Site Traffic Signage Multi Vista / Open Space Multi Vista / Open Space Heide Engineering/Building Layout Temporary Valkaway (Parking) Interim Cleaning for Site and Building Safety Labor and Protection General Maintenence/Protection Safety Labor and Protection General Maintenence/Protection Senerary Walkaway (Parking) Interim Cleaning for Site and Building Safety Labor and Protection General Maintenence/Protection Temporary Valkaway (Parking) Interim Cleaning for Site and Gates Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf 22-0000.000 EXISTING CONDITIONS & DEMO				PROJECT REQUIREMENT	<u>01-0000.000</u>
 1 Ceremonial Costs (Groundbreaking, Topping Off, Ribbon Cutting, etc) - GMP Allowance value to be negotiated at time of GMP 10 Debris Control, Removal and Dumpsters 10 Winter Conditions (General) 10 Temporary Electric Consumption 10 Staging and Hoisting 10 Safety Materials (guardrails, railing, etc.) 10 Final Cleaning for Site and Building 10 Project and Site Traffic Signage 10 Temporary Electric Consumption 10 Safety Materials (guardrails, railing, etc.) 10 Final Cleaning for Site and Building 10 Project and Site Traffic Signage 10 Temporary Enclosures 10 Multi Vista / Open Space 10 Field Engineering/Building Layout 10 Temporary Walkways (Parking) 10 Interim Cleaning for Site and Building 10 Safety Labor and Protection General 10 Maintennence/Protection 11 Temporary Valer and Sever 10 Police Detail Allowance 10 Site Enclosure Fences and Gates 11 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf 22-0000.000 EXISTING CONDITIONS & DEMO				General Requirements	01-1130.310
10 Debris Control, Removal and Dumpsters 11 Winter Conditions (General) 12 Temporary Electric Consumption 13 Staging and Hoisting 13 Safety Materials (guardrails, railing, etc.) 14 Final Cleaning for Site and Building 15 Project and Site Traffic Signage 16 Final Cleaning for Site and Building 17 Temporary Enclosures 18 Multi Vista / Open Space 16 Field Engineening/Building Layout 17 Temporary Valkways (Parking) 18 Interim Cleaning for Site and Building 19 Safety Labor and Protection General 10 Maintenence/Protection 10 Temporary Valer and Sewer 19 Police Detail Allowance 10 Site Enclosure Fences and Gates 11 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf 02-0000.000 EXISTING CONDITIONS & DEMO				Ceremonial Costs (Groundbreaking, Topping Off, Ribbon Cutting, etc) - GMP Allowance value to be peroptiated at time of GMP	10
10 Winter Conditions (General) 11 Temporary Electric Consumption 12 Staging and Hoisting 13 Staging and Hoisting 14 Safety Materials (guardrails, railing, etc.) 15 Final Cleaning for Site and Building 16 Project and Site Traffic Signage 17 Temporary Enclosures 16 Multi Vista / Open Space 16 Hield Engineering/Building Layout 17 Temporary Walkways (Parking) 18 Interim Cleaning for Site and Building 19 Safety Labor and Protection General 10 Multinence:/Protection 10 Temporary Walkways (Parking) 10 Interim Cleaning for Site and Building 10 Safety Labor and Protection General 10 Muintence:/Protection 19 Dice Detail Allowance 10 Police Detail Allowance 10 Site Enclosure Fences and Gates 10 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf 02-0000.000 EXISTING CONDITIONS & DEMO				Debris Control Removal and Dumpsters	10
 10 Temporary Electric Consumption 10 Staging and Hoisting 10 Safety Materials (guardrails, railing, etc.) 11 Final Cleaning for Site and Building 12 Project and Site Traffic Signage 13 Temporary Enclosures 14 Will Vista / Open Space 15 Field Engineering/Building Layout 16 Temporary Walkways (Parking) 16 Interim Cleaning for Site and Building 16 Safety Labor and Protection General 17 Maintenence/Protection 18 Temporary Toilets 19 Police Detail Allowance 10 Site Enclosure Fences and Gates 10 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf 02-0000 EXISTING CONDITIONS & DEMO				Winter Conditions (General)	10
 Staging and Hoisting Safety Materials (guardralis, railing, etc.) Final Cleaning for Site and Building Project and Site Traffic Signage Temporary Enclosures Multi Vista / Open Space Field Engineering/Building Layout Temporary Walkways (Parking) Interim Cleaning for Site and Building Safety Labor and Protection General Maintenence/Protection Temporary Water and Sewer Police Detail Allowance Stile Enclosure Fences and Gates Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf 22-0000.000 EXISTING CONDITIONS & DEMO				Temporary Electric Consumption	10
 Safety Materials (guardrails, railing, etc.) Final Cleaning for Site and Building Project and Site Traffic Signage Temporary Enclosures Multi Vista / Open Space Field Engineering/Building Layout Temporary Walkways (Parking) Interim Cleaning for Site and Building Safety Labor and Protection General Maintenence/Protection Temporary Toilets Temporary Water and Sewer Police Detail Allowance Site Enclosure Fences and Gates Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf 02-0000 EXISTING CONDITIONS & DEMO				Staging and Hoisting	10
10 Final Cleaning for Site and Building 10 Project and Site Traffic Signage 10 Temporary Enclosures 10 Multi Vista / Open Space 11 Field Engineering/Building Layout 12 Temporary Walkways (Parking) 13 Interim Cleaning for Site and Building 14 Stefy Labor and Protection General 15 Maintenence/Protection 16 Temporary Toilets 17 Temporary Toilets 18 Temporary Toilets 19 Police Detail Allowance 10 Site Enclosure Fences and Gates 10 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf				Safety Materials (guardrails, railing, etc.)	10
10 Project and Šite Traffic Signage 11 Temporary Enclosures 12 Multi Vista / Open Space 13 Multi Vista / Open Space 14 Field Engineering/Building Layout 15 Field Engineering/Building Layout 16 Temporary Walkways (Parking) 10 Interim Cleaning for Site and Building 10 Safety Labor and Protection General 10 Maintenence/Protection 10 Temporary Toilets 11 Temporary Water and Sewer 10 Police Detail Allowance 10 Site Enclosure Fences and Gates 10 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf 02-0000.000 EXISTING CONDITIONS & DEMO				Final Cleaning for Site and Building	10
10 Temporary Enclosures 10 Multi Vista / Open Space 10 Field Engineering/Building Layout 11 Temporary Walkways (Parking) 10 Interim Cleaning for Site and Building 10 Safety Labor and Protection General 10 Maintenence/Protection 11 Temporary Water and Sewer 12 Temporary Water and Sewer 13 Police Detail Allowance 10 Site Enclosure Fences and Gates 10 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf 02-0000.000 EXISTING CONDITIONS & DEMO				Project and Site Traffic Signage	10
10 Multi Vista / Open Space 10 Field Engineering/Building Layout 10 Temporary Walkways (Parking) 10 Interim Cleaning for Site and Building 10 Safety Labor and Protection General 10 Maintenence/Protection 10 Temporary Toilets 10 Temporary Water and Sewer 10 Police Detail Allowance 10 Site Enclosure Fences and Gates 10 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf 02-0000.000 EXISTING CONDITIONS & DEMO				Temporary Enclosures	10
10 Field Engineering/Building Layout 11 Temporary Walkways (Parking) 12 Interim Cleaning for Site and Building 13 Safety Labor and Protection General 10 Maintenence/Protection 11 Temporary Toilets 12 Temporary Toilets 13 Temporary Water and Sewer 14 Police Detail Allowance 15 Site Enclosure Fences and Gates 16 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf				Multi Vista / Open Space	10
10 Temporary Walkways (Parking) 10 Interim Cleaning for Site and Building 10 Safety Labor and Protection General 10 Maintenence/Protection 10 Temporary Toilets 10 Temporary Water and Sewer 10 Police Detail Allowance 10 Site Enclosure Fences and Gates 10 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf <u>EXISTING CONDITIONS & DEMO</u>				Field Engineering/Building Layout	10
10 Interim Cleaning for Site and Building 10 Safety Labor and Protection General 10 Maintenence/Protection 10 Temporary Toilets 10 Temporary Toilets 10 Temporary Toilets 10 Temporary Water and Sewer 10 Police Detail Allowance 10 Site Enclosure Fences and Gates 10 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf 02-0000.000 EXISTING CONDITIONS & DEMO				Temporary Walkways (Parking)	10
10 Safety Labor and Protection General 10 Maintenence/Protection 10 Temporary Toilets 10 Temporary Water and Sewer 10 Police Detail Allowance 10 Site Enclosure Fences and Gates 10 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf <u>EXISTING CONDITIONS & DEMO</u>				Interim Cleaning for Site and Building	10
10 Maintenence/Protection 10 Temporary Toilets 10 Temporary Water and Sewer 10 Police Detail Allowance 10 Site Enclosure Fences and Gates 10 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf EXISTING CONDITIONS & DEMO				Safety Labor and Protection General	10
10 Temporary Toilets 10 Temporary Water and Sewer 10 Police Detail Allowance 10 Site Enclosure Fences and Gates 10 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf <u>EXISTING CONDITIONS & DEMO</u>				Maintenence/Protection	10
10 Temporary Water and Sewer 10 Police Detail Allowance 10 Site Enclosure Fences and Gates 10 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf EXISTING CONDITIONS & DEMO				Temporary Toilets	10
10 Police Detail Allowance 10 Site Enclosure Fences and Gates 10 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf <u>EXISTING CONDITIONS & DEMO</u>				Temporary Water and Sewer	10
10 Site Enclosure Fences and Gates 10 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf 02-0000.000 EXISTING CONDITIONS & DEMO				Police Detail Allowance	10
10 Temporary Stairs PROJECT REQUIREMENTS 136,000.00 sf 02-0000.000 EXISTING CONDITIONS & DEMO				Site Enclosure Fences and Gates	10
PROJECT REQUIREMENTS 136,000.00 sf <u>02-0000.000</u> <u>EXISTING CONDITIONS & DEMO</u>				Temporary Stairs	10
136,000.00 sf <u>02-0000.000</u> <u>EXISTING CONDITIONS & DEMO</u>	0			PROJECT REQUIREMENTS	
02-0000.000 EXISTING CONDITIONS & DEMO				136,000.00 sf	
<u>02-0000.000</u> <u>EXISTING CONDITIONS & DEMO</u>				PROJECT REQUIREMENTS 136,000.00 sf	
			<u>DEMO</u>	EXISTING CONDITIONS &	<u>02-0000.000</u>
02-2820.112 Asbestos Abatement	4 007 -0			Asbestos Abatement	02-2820.112

Asbestos Abatement		14.246/sf	1,937,500
136,000.00 sf			
02-4116.100 Building Demolition 110 Demolition of Existing High School Building Demolition	125,000.00 sf	<u>11.00</u> /sf 10.110/sf	1,375,000 1,375,000
136,000.00 sf			



					Total	
Item		Description	Takeoff Qty		Unit Cost	Amount
		EXISTING CONDITIONS & DEMO			24.357/sf	3,312,500
		136.000.00 sf				
		130,000.00 31				
<u>03-0000.</u>	<u>000</u>	CONCRETE				
03-0010.160		Stairs and Landings				
	105	Stairs and Landings	4.00	Flt	4,500.00 /Flt	18,000
	105	Stairs and Landings, Main Stair	1.00	Flt	4,500.00 /Flt	4,500
	105	Stage Ramp	1.00	ls	25,000.00 /ls	25,000
		Stairs and Landings			0.349/St	47,500
		136,000.00 sf				
03-0010.165		Concrete Foundations				
	125	Concrete Material - Footings, Piers & FND Walls	1,272.00	су	110.00 /cy	139,920
	125	Concrete Form Work	33,527.00	ST	32.00 /st 100.000.000 //s	1,072,864
	120	Concrete Foundations	1.00	10	<u>9.653/sf</u>	1,312,784
		136,000.00 sf				
03-0022.140	100	Concrete - Place & Finish SOD	2 940 00	ef	40.00 /sf	117 600
	100	Place & Finish - SODs	52.530.00	sf	9.50 /sf	499.035
	100	SOD Concrete	1,120.00	су	120.00 /cy	134,400
	100	Place & Finish - SODs - House Keeping Pads, Allow	1,300.00	sf	30.00 /sf	39,000
		Concrete - Place & Finish SOD			5.809/sf	790,035
		136,000.00 sf				
03-1113.630		Vapor Barrier				
	12	15 mil Vapor Barrier	86,570.00	sf	/sf	86,570
		Vapor Barrier			0.637/sf	86,570
		136,000.00 sf				
03-1113.635		Rigid Insulation				
	20	Rigid Foundation Insulation - Vertical	18,050.00	sf	4.25 /sf	76,713
	120	Rigid Insulation Under Slab, Full Coverage	86,570.00	ST	3.85 /st	333,295



						Total	
Item		Description		Takeoff Qty		Unit Cost	Amount
		Rigid Insulation				3.015/sf	410,007
		136,000.00	sf				
03-1113.710		Concrete Re-Bar					
	14	Re-Bar, Footings, Piers	Walls	70.00	tons	3,500.00 /tons	245,000
	14	Re-Bar, SOG		5.00	tons	3,500.00 /tons	17,500
	14	Re-Bar, SOD		14.00	tons	3,500.00 /tons	49,000
	14	Concrete Bo Bor		4.00	tons	3,500.00 /tons	225 500
		Сопстете ке-раг				2.393/51	325,500
		136,000.00	sf				
		8,883.540	Labor hours				
03-3500.110		S.O.G. Concrete					
	10	Place & Finish SOG - In	cluded Saw Cuts for CJs	86,570.00	sf	8.00 /sf	692,560
		and Sealant					
	10	SOG Concrete		1,580.00	су	<u>110.00</u> /cy	173,800
		S.O.G. Concrete				6.370/sf	866,360
		136,000.00	sf				
03-6110 100		Hand Grout Equin					
03-0110.100	500	Grout Elevator Sill Angle	29	2 00	еа	500.00 /ea	1 000
	000	Hand Grout Equip		2.00	0u	0007/sf	1 000
							1,000
		136,000.00	sf				
						28 234/cf	3 839 756
		CONORLIE				20.254/51	3,033,700
		136,000.00	sf				
		8,883.540	Labor hours				
04-0000.	000	MASO	NRY				
04-2113.120		Brick & Block					
	110	Exterior Mock up - Mase	onry Allowance	1.00	ls	25,000.00 /ls	25,000
	110	Brick Veneer, Interstate	, Norman Brick - MTN Red	30,330.00	sf	65.00 /sf	1,971,450
	110	Brick Veneer, Ties & An	choring	30,330.00	sf	5.00 /sf	151,650
	110	Brick Veneer, Clean Ne	W	30,330.00	ST	4.00 /st	121,320
	110	Subcontractor Markups	5 Fanels	1,000.00	ii Is	123.00 /11 350.000.00 /le	200,000
	110	Recon Adjustment		-1.00	ls	600,000.00 /ls	(600.000)



					Total	
Item		Description	Takeoff Qty		Unit Cost	Amount
		Brick & Block			16.319/sf	2,219,420
		136,000.00 sf				
04-2200 080						
	102	Interior CMU walls - Gymnasium	5,200.00	sf	40.00 /sf	208,000
	102	Interior CMU walls - Elevator Shaft	1,476.00	sf	40.00 /sf	59,040
	102	Interior CMU walls - Locker Rooms	0.00	sf		
		CMU Block			1.964/sf	267,040
		136,000.00 sf				
04-9590.110		Staging				
	5	Masonry Staging - Exterior	31,000.00	sf	6.25 /sf	193,750
	5	Masonry Staging - Interior	12,790.00	sf	6.25_/sf	79,938
		Staging			2.012/sf	273,688
		136,000.00 sf				
					00.005/-5	0.700.440
		MASONRY			20.295/sf	2,760,148
		136,000.00 sf				
05-0000.0	000	METALS				
05-1200.110		Structural Steel Scroop Wall Allow	10.00	tn	5 250 00 /tp	52 500
a 01		Structural Steel - Scieen Wall, Allow	112 00	tn	5,250.00 /th	588 000
u o i		(6x6x3/8)	112.00		0,200.00 / 41	000,000
a 01		Structural Steel - Floors, Sized Members	178.00	tn	5,250.00 /tn	934,500
a 01		Structural Steel - Floors, Unsized Allow	62.00	tn	5,250.00 /tn	325,500
a 01		Structural Steel - Floors, Connections	38.00	tn	5,250.00 /tn	199,500
a 01		Structural Steel - Roof, Sized Members	283.00	tn	5,250.00 /tn	1,485,750
a 01		Structural Steel - Roof, Unsized Allow	135.00	tn	5,250.00 /tn	708,750
a 01		Structural Steel - Roof, Skylights, 800lf, W12x40	16.00	tn	5,250.00 /tn	84,000
a 01		Structural Steel - Roof, Connections	40.00	tn	5,250.00 /tn	210,000
		Structural Steel			33.739/sf	4,588,500
		136,000.00 sf				
05-3100.110		Steel Roof Deckina				
	320	Metal Roof Decking	77,200.00	sf	7.00 /sf	540,400
	320	Metal Roof Decking - Acoustic, Gymnasium, Cafeteria	6,800.00	sf	8.00 /sf	54,400

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					Total		
Item		Description	Takeoff Qty		Unit Cost	Amount	
		Steel Roof Decking			4.374/sf	594,800	
		136,000.00 sf					
05-3100.114		Steel Floor Decking					
	618	Metal Floor Deck	52,000.00	sf	7.00_/sf	364,000	
		Steel Floor Decking			2.676/sf	364,000	
		136,000.00 sf					
05-5113.100		Stairs & Ladders					
	10	Stairs and Rails - Feature Stair	1.00	Flt	75,000.00 /Flt	75,000	
	10	Stairs and Rails - Egress	4.00	Flt	35,000.00 /Flt	140,000	
	10	Stairs and Rails - Roof	1.00	Flt	35,000.00_/Flt	35,000	
		Stairs & Ladders			1.838/sf	250,000	
		136,000.00 sf					
05-5820.120		Misc Steel					
	140	Misc Metals - Roof	136,000.00	sf	1.50 /sf	204,000	
	140	Misc Metals - Floor Construction	136,000.00	sf	5.00 /sf	680,000	
	140	Misc Metals - Exterior Walls	136,000.00	st	0.50 /st	68,000	
	140	Misc Metals - General Stairs	130,000.00	51	3.00 /51	400,000	
	140	Misc Steel			10.00 /sf	1,360,000	
		136,000.00 sf					
		METALS			52.627/sf	7,157,300	
		136,000.00 sf					
06.0000	000		v				
00-0000.	UUU	KUUGH LAKPENIK	T				

06-0000.010	Carpentry				
2	Misc. Blocking	136,000.00	sf	0.50 /sf	68,000
2	General Roof Blocking	136,000.00	sf	2.00 /sf	272,000
2	Roof Blocking Perimeter	2,000.00	lf	20.00 /lf	40,000
2	Window Blocking	4,300.00	lf	20.408 /lf	87,755
	Carpentry			3.439/sf	467,755

136,000.00 sf



				Total	
ltem	Description	Takeoff Qty		Unit Cost	Amount
	ROUGH CARPENTRY			3.439/sf	467,755
	136,000.00 sf				
<u>06-2000.000</u>	FINISH CARPENTRY				
06 2000 040	Finish Comentar				
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	 Finish Carpentry 2 General Office, Custom Desk 2 Lobby/Cafeteria PLAM Wall Panels 2 Stage Front / Proscenium, Allowance 2 Custom Display Cases 2 Solid Surface Benches 2 Solid Surface Counters 2 Solid Surface Counters 2 Solid Surface Sills 2 PLAM Wall Panels, Allowance - Music, Cafe, Media Finish Carpentry 136,000.00 sf FINISH CARPENTRY 136,000.00 sf	1.00 4,560.00 1.00 50.00 36.00 730.00 1,500.00	Is sf Is If If If sf	23,000.00 /ls 39.00 /sf 20,000.00 /ls 20,000.00 /ls 300.00 /lf 298.00 /lf 39.00 /sf 2.820/sf	23,000 177,840 20,000 20,000 15,000 10,728 58,400 58,500 383,468 383,468
<u>07-0000.000</u>	THERMAL & MOIST PRO	<u>DTECT</u>			
07-1100.100 2 2	Damproofing and Waterproofing Elevator Pit Waterproofing Foundation Damproofing Damproofing and Waterproofing 136,000.00 sf	1.00 9,025.00	ea sf	8,500.00 /ea <u>9.00</u> /sf 0.660/sf	8,500 81,225 89,725
07-2113.230 2 2 2 2 2 2 2 2 2 2 2 2 2	Insulation25" Rigid Cavity Wall Insulation (Masonry)25" Rigid Cavity Wall Insulation (Panels)23" Rigid Cavity Wall Insulation (Soffits)2Closed Cell Insulation - Ext Wall Roof Edges2Closed Cell Insulation - Air Sealing Edges	30,330.00 11,200.00 2,700.00 3,300.00 1.00	sf sf sf sf Is	5.50 /sf 5.50 /sf 5.50 /sf 10.00 /sf 25,000.00 /ls	166,815 61,600 14,850 33,000 25,000



					Total	
Item	Description		Takeoff Qty		Unit Cost	Amount
	Insulation				2.215/sf	301,265
	136,000.0	00 sf				
07-2700.100	Air Barriers 10 Air Vapor Barrier, S Air Barriers	elf Adhered	45,230.00	sf	8.00 /sf 2.661/sf	<u> </u>
	136,000.0	00 sf				
07-4616.100	Composite Wall 2 GFRC Panel Syster 2 Composite Soffits 2 Roof Screen	Panel n Panel	11,200.00 750.00 0.00	sf sf NIC	140.00 /sf 145.00 /sf	1,568,000 108,750
	136 000 (ranei			12.329/51	1,070,750
<u>07-5000.0(</u>	THERMAL & 136,000.0 00 <u>RO</u>	MOIST PROTECT 10 sf OFING			17.865/sf	2,429,580
07-5300.100	Roofing 2 PVC Roofing (Insula Board, Flashings)	ation, Vapor Barrier, Cover	84,000.00	sf	30.00 /sf	2,520,000
	2 Roof Edge Flashing Roofing 136.000.0	00 sf	2,000.00	IT	50.00_/if 19.265/sf	2,620,000
	ROOFING				19.265/sf	2,620,000
	136,000.0	10 sf				
<u>07-7000.00</u>	<u>00 RO</u>	OF & WALL ACCESSO	<u>DRIES</u>			
07-7200.100	Roof Accessorie10Elevator Vents10Roof Ladders	s Pa	1.00 3.00	ea ea	3,500.00 /ea 7,960.83 /ea	3,500 23,882 2/8/202



						Total	
ltem		Description		Takeoff Qty		Unit Cost	Amount
07-7200 100		Roof Accessories					
01 1200.100	10	Roof Drains		34 00	ea	710.83 /ea	24 168
	10	Roof Dunnage, Allow		1.00	ls	50.000.00 /ls	50.000
	20	Roof Walkway pads		1,000.00	sf	25.00 /sf	25,000
	20	Roof Hatch - Standard	Door to roof	·			
		Roof Accessories				0.931/sf	126,551
		136,000.00	sf				
		4.875	Labor hours				
		ROOF & WALL	ACCESSORIES			0.931/sf	126,551
		136,000.00	sf				
		4.875	Labor hours				
<u>07-8000.</u>	<u>000</u>	<u>FIREF</u>	ROOFING / CAUL	<u>.KING</u>			
07 0400 004		Fire Onfiner					
07-8100.001	002	Hire Sating Misc. Fire Stopping w/	Trades	136,000.00	sf		
07 0400 400		Firmer of the second					
07-8100.100	0	Fireprooting	(Mash Elec)	1.00	1		50.000
	2	Fireproofing, Allowance	(Mech. Elec.)	1.00	IS	50,000.00 /ls	50,000
	2	Priceprooning, intumesce	In Paint Allowance	1.00	is cdc	35,000.00 /ls	35,000
	2	Falci Days	ina	4.00	le	2,700.00 /cds	220,000
	Z	Fireproofing	ing	1.00	15	229,000.00 //s	<u> </u>
		136,000.00	sf				
07-9200.100	40	Interior Caulking		100.000.00			~~~~~
	40	Misc. Interior Caulking		136,000.00	st	/sf	68,000
		Interior Caulking				0.50 /sf	68,000
		136,000.00	sf				
07-9200.200		Exterior Caulking					
	2	Exterior Joint/Control &	Caulking	136,000.00	sf	0.50 /sf	68,000
		Exterior Caulking	-			0.50 /sf	68,000
		136,000.00	sf				



				Total	
ltem	Description	Takeoff Qty		Unit Cost	Amount
	FIREPROOFING / CAULKING			3.388/sf	460,800
	136,000.00 sf				
<u>08-0000.000</u>	DOORS & WINDOWS				
08 1100 200	Deero				
10	Typical Interior Doors	276.00	lfs	1.000.00 /lfs	276.000
10	Interior Ballistic Door and Sidelite, LvI 3	1.00	lfs	25,000.00 /lfs	25,000
220	Exterior Doors	9.00	lfs	3,500.00 /lfs	31,500
	Doors			2.445/sf	332,500
	136,000.00 sf				
08-1100.500	Door Frames				
100	Interior Frames	262.00	ea	350.00 /ea	91,700
100	Frame Install - Installed w/ GWB	0.00	ea		
	Door Frames			0.674/sf	91,700
	136,000.00 sf				
08-3500.100	Overhead Coiling				
50	Overhead Door at Receiving	1.00	ea	15,000.00 /ea	15,000
50	Overhead Coiling Doors, Cafe, Allowance	3.00	ea	12,000.00 /ea	36,000
	Overhead Coiling			0.375/sf	51,000
	136,000.00 sf				
08-4100.100	Glass & Glazing				
10	Interior Storefront	1,168.00	sf	125.00 /sf	146,000
10	Borrowed Lites	300.00	sf	85.00 /sf	25,500
10	Glass Guardrail - Cafeteria	18.00	lf	350.00 /lf	6,300
10	Glass Guardrail - Main Stair & Second Floor Corridor	239.00	lf	350.00 /lf	83,650
10	Interior Storefront - Ballistic	192.00	sf	400.00 /sf	76,800
10	Interior Storefront - Ballistic Doors	4.00	lfs	15,000.00 /lfs	60,000
10	Calming room One way Windows (4'x4')	60.00	sf	85.00 /sf	5,100
10	PI MIRTORS, Allow	25.00	st	80.00 /st	2,000
	Glass & Glazing			2.981/ST	405,350
	136.000.00 sf				

08-4400.110 Curtainwall



					Total	
ltem		Description	Takeoff Qty		Unit Cost	Amount
08-4400,110		Curtainwall				
	1000	Exterior Aluminum Curtainwall	3.550.00	sf	225.00 /sf	798,750
	1000	Alum Doors, Frames & Hardware, Exterior	17.00	lfs	8,000.00 /lfs	136,000
	1000	Window Films - Security Film	1,500.00	sf	40.00 /sf	60,000
	1000	Alum Doors, Frames & Hardware, Interior	9.00	lfs	10.000.00 /lfs	90,000
	1000	Skylight Systems	4.000.00	sf	210.00 /sf	840.000
	1000	Exterior Aluminum Curtainwall / Storefront - Ballistic	1.00	ls	20,000.00 /ls	20,000
	1000	Exterior Aluminum Storefront / windows	4,580.00	sf	168.00 /sf	769,440
	1000	Exterior Aluminum Curtainwall - Sunshades, Allow	1.00	allow	75.000.00 /allow	75.000
		Curtainwall			20.509/sf	2,789,190
		136,000.00 sf				
08-7100.090		Finish Hardware				
	10	Card Readers	4.00	ea	3,500.00 /ea	14,000
	10	Door and Hardware Install	251.00	ea	650.00 /ea	163,150
	10	Finish Hardware - Allowance	251.00	lfs	1,750.00 /lfs	439,250
	10	Door and Hardware Install - Exterior	9.00	ea	650.00 /ea	5,850
	10	Finish Hardware - Allowance	9.00	lfs	1,750.00 /lfs	15,750
		Finish Hardware			4.691/sf	638,000
		136,000.00 sf				
		DOORS & WINDOWS			31.675/sf	4,307,740
		136,000.00 sf				
09-0000.	000	FINISHES				
09-2000.010		Drywall Partitions				
	100	Exterior Wall Back Up, 8" LGMF, GWB interior Face, Insul	50,800.00	sf	21.00 /sf	1,066,800
	100	Typical interior Partitions, Double Sided	130,504.00	sf	20.00 /sf	2,610,080
	100	Typical interior Partitions, Single Sided	25,302.00	sf	17.00 /sf	430,134
	100	Exterior Wall - Densglass Sheathing	55,600.00	sf	6.00 /sf	333,600
	100	Skylight Surrounds	4,764.00	sf	30.00 /sf	142,920
	100	General Carp / Labor	136,000.00	sf	2.00 /sf	272,000
	100	Lifts & Staging	1.00	ls	45.000.00 /ls	45.000
	100	FRP - 8' Height Kitchen JC	265.00	lf	110 00 /lf	29 150
	100	Exterior Soffit Framing	750.00	sf	75.00 /sf	56 250
	100	Mock ups	1 00	ls	20 000 00 //s	20,200
	100	FRD - 8' Height Evewash Showors		IS If	110 00 /l5	20,000
	100		190.00	п		21,700

136,000.00 sf



					Total	
Item		Description	Takeoff Qty		Unit Cost	Amount
		Drywall Partitions			36.968/sf	5,027,714
		136,000.00 sf				
09-2000.014		Drywall Ceilings				
	2499	GWB Ceilings / Soffiting	136,000.00	sf	1.90_/sf	258,400
		Drywall Ceilings			1.90 /sf	258,400
		136,000.00 sf				
09-3100.100		Wall Tile				
	50	Porcelain Wall Tile - Corridors, 7' AFF	14,840.00	sf	33.00 /sf	489,720
	50	Porcelain Wall Tile - Restrooms, 7' AFF	9,700.00	sf	33.00 /sf	320,100
	50 50	Ceramic Wall Tile - Caleteria, 8 AFF	3 080 00	si	33.00 /st 33.00 /sf	28,050
	50	Ceramic Wall Tile - Locker Room, 7' AFF	2.388.00	sf	33.00 /sf	78.804
	50	Porcelain Wall Tile - Lobby, 7' AFF	4,200.00	sf	33.00 /sf	138,600
		Wall Tile			8.507/sf	1,156,914
		136,000.00 sf				
09-3116.100		Terrazzo Tile		_		
	2	Terrazzo Tile	5,000.00	sf	40.00 /sf	200,000
	2	Terrazzo Tile	220.00	IŤ	150.00 /lf	233,000
					1.1 10/01	200,000
		136,000.00 sf				
09-5000.110		Ceilings - ACT				
	2	ACT-1: 2x2- Classrooms, Corridors, Offices	85,350.00	sf	6.75 /sf	576,113
	2	ACT-2: 2x2 - Kitchen	2,450.00	sf	7.50 /sf	18,375
	2	ACT-3: 2x2 - 50% Music/Band	1,000.00	st	10.00 /sf	10,000
	2	ACT-4: 2X2 - Tollet Rooms/Locker	6,210.00	SI	10.50 /51	65,205
	2	ACT-5: 2x2 - Health/Wellness/OT/PT/Exec. Funct.	2.750.00	sf	18.00 /sf	49.500
	2	ACT-6: 2x2 - 50% Music/Band - Geometric	1,000.00	sf	40.00 /sf	40,000
		Diffusers				
	2	ACT-7: Clouds - Cafeteria	4,200.00	sf	75.00 /sf	315,000
	2	ACT-8: TBD - Platform Allowance	1,060.00	st	20.00 /sf	21,200
		Ceilings - ACT			8.054/st	1,095,393
		136,000.00 sf				
09-6000 100		Flooring - General				
	2	Floors Moisture Mitigation Testing	5.00	loc	400.00 /loc	2.000
	2	Floors Moisture Mitigation	17,000.00	sf	1.00 /sf	17,000

^{2/8/2024}



						Total	
Item		Description		Takeoff Qty		Unit Cost	Amount
09-6000.100	2	Flooring - General Flooring Protection Flooring - General 136 000 00	sf	108,750.00	sf	1.25_/sf 1.139/sf	<u> </u>
09-6200.100	40	Resinious Flooring Epoxy Flooring Resinious Flooring 136,000.00	sf	16,059.00	sf	27.50_/sf 3.247/sf	<u>441,623</u> 441,623
09-6400.100	145 145	Flooring- Wood Sports Surfaces, 2-1/8" F Gymnasium Wood Flooring, Maple (S Flooring- Wood	looring System - tage)	7,010.00 1,450.00	sf sf	28.00 /sf /sf 1.731/sf	196,280 39,150 235,430
09-6500.100	2 2	Flooring- Resilient Linoleum Flooring Resilient Base Flooring- Resilient 136,000.00	sf	45,220.00 16,879.00	sf If	7.00 /sf /lf 2.948/sf	316,540 84,395 400,935
09-6500.200	2	Flooring- Resilient Sta Rubber Tile Landings & T Flooring- Resilient Sta 136,000.00	air ⁻ reads air sf	4.00	flt	4,500.00_/fit 0.132/sf	18,000 18,000
09-6800.100 f 10		Flooring - Carpet Carpet Tile Flooring - Carpet 136,000.00	sf	726.00	sy	60.00_/sy 0.320/sf	<u> </u>
09-6900.100	20 20	Walk Off Matts and Fr Metal Grating Frames, Ve Walk Off Mats	r aming estibule	300.00 300.00	sf sf	28.302 /sf 5.975 /sf	8,491 1,792



					Total	
	Description		Takeoff Qty		Unit Cost	Amount
	Walk Off Matts and F	raming			0.076/sf	10,283
	136,000.00	sf				
	60.00	Labor hours				
2 2	Wall Coverings & Wa Wall Protection - FRP at Custom Graphic Wall Al	all Protection Kitchen, See Drywall lowance	1,000.00	sf	/sf	15,000
	wall Coverings & wa	all Protection			0.110/st	15,000
	136,000.00	sf				
	Acoustical Panels					
2	Acoustical Wall Panels	Allowanaa Madia Band	2,900.00	sf	42.00 /sf	121,800
Z	Gym, Etc.	Allowance, Media, Danu,	1.00	15	100,000.000 /is	100,000
2	Acoustical Wall Panels - Extrusions	Snap on Aluminum	1.00	Allow	15,000.00 /Allow	15,000
	Acoustical Panels				1.741/sf	236,800
	136,000.00	sf				
	Painting- Exterior					
30	Paint Exterior HM Door	Frames	4.00	ea	250.00 /ea	1,000
30	Paint Exterior HM Doors	i	5.00	lfs	350.00_/lfs	1,750
	Painting- Exterior				0.020/sf	2,750
	136,000.00	sf				
	Painting- Interior					
10	Paint Walls - GYP		335,000.00	sf	1.45 /sf	485,750
10	Paint Walls - CMU		6,700.00	sf	1.50 /sf	10,050
10	Paint Touch up Allowand	ce	1.00	ls of	20,000.00 /ls	20,000
20	Paint Exposed Ceilings		9323.00	si sf	0.00 /SI 3.50 /ef	10,400
30	Paint pan stairs & Rails		5.00	Flt	2 500 00 /Fit	12 500
40	Paint Doors And Frame	S	277.00	ea	230.00 /ea	63,710
	Painting-Interior				4.707/sf	640,121
	136,000.00	sf				
	FINISHES				73.315/sf	9,970,859
	2 2 2 2 2 2 2 30 300 300 100 100 100 100 300 400 100 100 100 100 100 100 100 100 1	Description Walk Off Matts and F 136,000.00 60.00 Wall Coverings & Wa 2 Wall Protection - FRP at 2 Custom Graphic Wall Al Wall Coverings & Wa 36,000.00 Acoustical Panels 2 Acoustical Wall Panels 2 Acoustical Wall Panels 2 Acoustical Wall Panels 3 Acoustical Wall Panels 4 Acoustical Wall Panels 3 Acoustical Wall Panels 4 Acoustical Wall Panels 3 Acoustical Wall Panels 3 Acoustical Wall Panels 4 Acoustical Wall Panels 3 Painting- Exterior 3 Paint Exterior HM Door 3 Paint Faterior HM Door 3 Paint Paint Satur 3 Paint Paint Painterior 3 Paint Painterior 3 Paint Paint Painterior 3 Paint Paint Painterior 3 Paint Paint Painterior 3 Paint Painterior 3 Paint Painterior 3 Painterior Painterior 3 Painterior Painterior 3 Painterior Painterior 3 Painterior Painterior 3 Painterior Painterior 3 Painte	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>	Description Takeoff Qty Walk Off Matts and Framing 136,000.00 sf 136,000.01 sf 60.00 Labor hours 2 Wall Protection - FRP at Kitchen, See Drywall 1,000.00 2 Custom Graphic Wall Allowance 1,000.00 2 Custom Graphic Wall Allowance 1,000.00 36,000.00 sf 2 2 Acoustical Panels 2,000.00 2 Acoustical Wall Panels, Allowance, Media, Band, 100 1.00 Gym, Etc. 2 2 Acoustical Wall Panels - Snap on Aluminum 1.00 Extrusions 4.00 Acoustical Panels 2.000.00 2 Acoustical Wall Panels - Snap on Aluminum 1.00 Extrusions 4.00 Acoustical Panels 5.00 9 Paint Exterior 5.00 136,000.00 sf 5.00 Painting- Interior 335,000.00 136,000.00 sf 5.00 Paint Walls - GYP 335,000.00 10 Paint Walls - GYP 335,000.00 10 Paint Walls - GYP 335,000.00 10 Paint Touch up Allowance 1.00 10 Paint Touch up Allowance 1.00 10 Paint W	Description Takeoff Quity Walk Off Matts and Framing 136,000.0 sf 0.000 Labor hours Wall Coverings & Wall Protection 1,000.0 sf 2 Custom Graphic Wall Allowance 2 Custom Graphic Wall Protection 136,000.00 sf Mail Coverings & Wall Protection 1,000.00 sf Acoustical Panels 2,900.00 sf 2 Acoustical Wall Panels, Allowance, Media, Band, Org, Marker 0 Acoustical Wall Panels - Snap on Aluminum 1.00 0 Acoustical Panels 2,900.00 sf 3 Statical Wall Panels - Snap on Aluminum 1.00 0 Acoustical Panels 2,000.01 sf 1 136,000.01 sf 5.00 lfs 2 Paint Exterior HM Doors 5.00 lfs 3 Paint Exterior HM Doors frames 2.000.01 sf 1 136,000.01 sf 5.00 lfs 1 Sagaou statis & Statis 5.00 lfs 1 Paint Malls - CMU 6,700.00 sf 1 9,232.00 sf 5.00 lfs 2 Paint Malls - GYP 335,000.01 sf	Total Description Takeoff Qty Unit Cost Walk Off Matts and Framing 0.076/sf 0.076/sf 136,000.00 sf 60.00 Labor hours 0.076/sf Wall Protection - FRP at Kitchen, See Dryvall 1,000.00 sf 15.00 /sf 2 Wall Protection - FRP at Kitchen, See Dryvall 1,000.00 sf 15.00 /sf 2 Custom Graphic Wall Allowance 1,000.00 sf 100,000.00 /sf 2 Acoustical Panels 2,900.00 sf 42.00 /sf 2 Acoustical Wall Panels Allowance, Media, Band, Gym, Eu 1.00 is 100,000.000 /sf 2 Acoustical Wall Panels - Snap on Aluminum 1.00 Allow 15,000.00 /sf 2 Acoustical Panels 1.00 Allow 15,000.00 /sf 30 Paint Exterior HM Doors 5.00 ifs 350.00 /sf 30 Paint Exterior HM Doors Frames 4.00 ea 250.00 /ea 335,000.00 sf 1.50 /sf 350.00 /fs 30 Paint Exterior HM Doors frames 5.00 ifs 350.00 /fs 30 Paint Exterior HM Doors frames 1.00 is 20.000.00 /fs 30 Paint Exterior HM Doors frames 1.00 is 20.000

136,000.00 sf



				Total	
Item	Description	Takeoff Qty		Unit Cost	Amount
	FINISHES			73.315/sf	9,970,859
	136,000.00 sf				
	60.00 Labor hours				
<u>10-0000.000</u>	<u>SPECIALTIES</u>				
10-1113.100	Visual Display Systems				
	2 Magnetic White Boards	110.00	ea	750.00 /ea	82,500
	2 Interactive White Boards	55.00	ea	2,000.00 /ea	110,000
	2 Tackboards	55.00	ea	950.00 /ea	52,250
	visual Display Systems			1.800/Sf	244,750
	136,000.00 sf				
10-1400.120	Signage				
11	0 8x8 ADA Classroom / Office / Typ Doors	262.00	ea	130.00 /ea	34,060
11	0 8x6 ADA Restroom	10.00	ea	90.00 /ea	900
11	1 10x8 ADA Elevalor 1 12x12 Wavfinding	2.00	ea ea	190.00 /ea	220 950
11	0 14x10 Stair Signage	6.00	ea	190.00 /ea	1,140
11	D Emergency Map Holder	10.00	ea	75.00 /ea	750
11	O Aluminum Letters - Allowance - 'Clinton Middle School'	1.00	ea	17,500.00 /ea	17,500
11	0 24x24 Dedication Plaque	1.00	ea	5,000.00 /ea	5,000
11	J Misc. Signage	136,000.00	ST	0.50 /st 225.00 /sa	68,000
	Signage	30.00	ca	0.995/sf	135.270
	136.000.00 sf				,
10-2113.110	Toilet Partitions				
	2 Plastic Toilet Partitions	41.00	ea	1,750.00 /ea	71,750
	2 Urinal Screen	7.00	ea Is	500.00 /ea 30.000.00 //s	3,500
	Toilet Partition Installation	1.00	15	0 774/sf	105 250
					100,200
	136,000.00 sf				
10-2123.200	Curtains & Track				
2	0 Curtains & Track - Resting Area	3.00	ea	2,000.00 /ea	6,000



					T . 4 . 1	
					lotal	
Item		Description	Takeoff Qty		Unit Cost	Amount
		Curtains & Track			-	6,000
		3.00 Labor hours	5			
10-2226.100		Partitions Folding				
	2	Operable Partition - 45'	1.00	ea	70,000.00 /ea	70,000
		Partitions Folding			0.515/sf	70,000
		136,000.00 sf				
10-2813.100		Toilet Accessories				
	2	18" Grab Bars	28.00	ea	100.00 /ea	2,800
	2	42" Grab Bars	28.00	ea	150.00 /ea	4,200
	2	TP Dispensers	58.00	ea	65.00 /ea	3,770
	2	PT Dispenser w/Trash	28.00	ea	225.00 /ea	6,300
	2	Paper Towel Dispensers	2.00	ea	100.00 /ea	200
	2	Sanitary Napkin Disposal	35.00	ea	100.00 /ea	3,500
	2	18 x 36 Framed Mirrors	36.00	ea	500.00 /ea	18,000
	2	Janitor Mop Racks	5.00	ea	250.00 /ea	1,250
	2	Changing Table, Allow	2.00	ea	3,500.00 /ea	7,000
	2	Toilet Accessories - Installation	1.00	ls	45,000.00 /ls	45,000
		Toilet Accessories			0.677/sf	92,020
		136,000.00 sf				
10-4413.100	~~	Fire Cabinets				
	30	MP-20 Extinguisher	20.00	ea	347.757/ea	6,955
	30	Extinguisher Cabinets, Allow	20.00	ea	391.227 /ea	7,825
	30	Fire Extinguisher Cabinet Install	20.00	ea	285.00 /ea	5,700
	30	AED Cabinet, Allow	1.00	ea	2,500.00 /ea	2,500
		Fire Cabinets			0.169/sf	22,980
		136,000.00 sf				
10-5100.100		Lockers Metal				
	10	Lockers, 15x12 Corridors, Double Ti	er Metal 590.00	ea	335.00 /ea	197 650
	10	Lockers, Kitchen / Staff	8 00	ea	335.00 /ea	2 680
	10	Locker Room Lockers, 15x12 Doubl	e Tier. Metal 108 00	ea	350.00 /ea	37.800
	10	Locker Room Bench. Under Lockers	(Locker 120.00	lf	500.00 /lf	60.000
		Room)	,			,- 50
	10	, Lockers, Gender Neutral Lockers	6.00	ea	335.00 /ea	2.010
	10	Extra Locker Doors - 5%	36.00	ea	100.00 /ea	3,600
		Lockers Metal			2.233/sf	303,740
						,

136,000.00 sf



					Total	
Item		Description	Takeoff Qty		Unit Cost	Amount
		SPECIALTIES			7.206/sf	980,010
		136,000.00 sf				
		3.00 Labor hours				
<u>11-0000.0</u>	<u>000</u>	<u>EQUIPMENT</u>				
11-3000 110		Residential Equipment				
	80	Nurses Office Refrigerator	1.00	ea	1,500.00 /ea	1.500
	80	Staff Room Refrigerator	3.00	ea	2,000.00 /ea	6,000
	80	Science Prep Room Refrigerator	3.00	ea	1,500.00 /ea	4,500
	80	Adult Living Refrigerator	1.00	ea	1,500.00 /ea	1,500
	80	Life Science Fridge/Freezer	1.00	ea	1,500.00 /ea	1,500
	100	Microwaves	3.00	ea	500.00 /ea	1,500
	100	Dishwasher	1.00	ea	1,500.00 /ea	1,500
	100	Front Load Washer	1.00	ea	2,000.00 /ea	2,000
	100	Front Load Dryer	1.00	ea	2,000.00 /ea	2,000
		Residential Equipment			0.162/sf	22,000
		136,000.00 sf				
11-4000.110		Food Service				
	2	Food Service Equipment - Allowance	1.00	ls	650,000.00 /ls	650,000
		Food Service			4.779/sf	650,000
		136,000.00 sf				
11-5213.001		Projection Equipment				
	001	Projection Screen 10' x 16'	1.00	ea	7,000.00 /ea	7,000
	001	Projection Screen 20' x 12'	1.00	ea	12,000.00 /ea	12,000
		Projection Equipment			0.140/sf	19,000
		136,000.00 sf				
11-5300.110	-	Miscellaneous Equipment				
	2	Kiln (Furnish & Install)	1.00	ea	16,500.00_/ea	16,500
		Miscellaneous Equipment			0.121/sf	16,500
		136 000 00 sf				
		,				
11-6050.000		Theatrical Equipment				
	010	Rigging and Curtain System	1.00	allow	185,000.00 /allow	185.000
						,9

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					Iotai	
ltem		Description	Takeoff Qty		Unit Cost	Amount
		Theatrical Equipment			1.360/sf	185,000
		136,000.00 sf				
11-6833.110		Athletic Equipment				
	10	Motorized Basketball Hoops, Winch, Connectors.	6.00	ea	12,500.00 /ea	75,000
	10	Motorized Divider Curtain in Gym	1.00	ea	20,000.00 /ea	20,000
	10	Volley Ball Equipment - Net	1.00	ls	10,000.00 /ls	10,000
	10	Volley Ball Equipment - Sleeves & Poles	1.00	ls	5,000.00 /ls	5,000
	38	Wall Pads - 6' tall X 2' Wide, Fire Rated - Gym,	1,700.00	ST	38.50 /st	65,450
	38	Allowance Interior Scoreboard w/Shot Clock	1.00	63	15,000,00 /ea	15 000
	38	Wall Pads - Calming room Allowance (35lf/ea)	630.00	ea	40.00 /ea	25 200
	00	Athletic Equipment	000.00	ou	1 586/sf	215 650
					1.000/01	210,000
		136,000.00 sf				
		EQUIPMENT			8.148/sf	1,108,150
		···· ··· ·				
		136,000.00 sf				
<u>12-0000.0</u>	<u>)00</u>	136,000.00 sf <u>FURNISHINGS</u>				
<u>12-0000.0</u>	000	136,000.00 sf <u>FURNISHINGS</u>				
<u>12-0000.0</u> 12-2113.100	<u>)00</u>	136,000.00 sf <u>FURNISHINGS</u> Shades - Blinds Window Shades	126 000 00	of	0.70. /of	05 200
<u>12-0000.0</u> 12-2113.100	2 2	136,000.00 sf <u>FURNISHINGS</u> Shades - Blinds Window Shades Shades - Blinds	136,000.00	sf		95,200
<u>12-0000.0</u> 12-2113.100	2 2	136,000.00 sf <u>FURNISHINGS</u> Shades - Blinds Window Shades Shades - Blinds	136,000.00	sf	/sf 0.70 /sf	<u>95,200</u> 95,200
<u>12-0000.0</u> 12-2113.100	2 2	136,000.00 sf FURNISHINGS Shades - Blinds Window Shades Shades - Blinds 136,000.00 sf	136,000.00	sf	0.70_/sf 0.70 /sf	<u> </u>
<u>12-0000.0</u> 12-2113.100 12-3000.130	2	136,000.00 sf <u>FURNISHINGS</u> Shades - Blinds Window Shades Shades - Blinds 136,000.00 sf Manufactured Casework	136,000.00	sf	/sf 0.70 /sf	<u>95,200</u> 95,200
<u>12-0000.0</u> 12-2113.100 12-3000.130	2	136,000.00 sf FURNISHINGS Shades - Blinds Window Shades Shades - Blinds 136,000.00 sf Manufactured Casework PLAM Countertops w/Backsplash	136,000.00	sf	0.70 /sf 0.70 /sf 115.00 /lf	<u>95,200</u> 95,200 199,295
<u>12-0000.0</u> 12-2113.100 12-3000.130	2 2 10 10	136,000.00 sf FURNISHINGS Shades - Blinds Window Shades Shades - Blinds 136,000.00 sf Manufactured Casework PLAM Countertops w/Backsplash PLAM Base Cabinets	136,000.00 1,733.00 755.00	sf lf ea	0.70 /sf 0.70 /sf 115.00 /lf 860.00 /ea	<u>95,200</u> 95,200 199,295 649,300
<u>12-0000.0</u> 12-2113.100 12-3000.130	2 2 10 10 10	136,000.00 sf FURNISHINGS Shades - Blinds Window Shades Shades - Blinds 136,000.00 sf Manufactured Casework PLAM Countertops w/Backsplash PLAM Base Cabinets PLAM Cubbies	136,000.00 1,733.00 755.00 20.00	sf lf ea ea	0.70 /sf 0.70 /sf 115.00 /lf 860.00 /ea 1,180.00 /ea	<u>95,200</u> 95,200 199,295 649,300 23,600
<u>12-0000.0</u> 12-2113.100 12-3000.130	2 2 10 10 10 10 10	136,000.00 sf EURNISHINGS Shades - Blinds Window Shades Shades - Blinds 136,000.00 sf Manufactured Casework PLAM Countertops w/Backsplash PLAM Base Cabinets PLAM Cubbies PLAM Tall / Teacher Cabinets	136,000.00 1,733.00 755.00 20.00 123.00	sf lf ea ea ea	0.70 /sf 0.70 /sf 115.00 /lf 860.00 /ea 1,180.00 /ea 1,725.00 /ea	<u>95,200</u> 95,200 199,295 649,300 23,600 212,175
<u>12-0000.0</u> 12-2113.100 12-3000.130	2 2 10 10 10 10 10 10	136,000.00 sf EURNISHINGS Shades - Blinds Window Shades Shades - Blinds 136,000.00 sf Manufactured Casework PLAM Countertops w/Backsplash PLAM Base Cabinets PLAM Cubbies PLAM Tall / Teacher Cabinets PLAM Wall Cabinets	136,000.00 1,733.00 755.00 20.00 123.00 368.00	sf lf ea ea ea ea	0.70 /sf 0.70 /sf 115.00 /lf 860.00 /ea 1,180.00 /ea 1,725.00 /ea 700.00 /ea	<u>95,200</u> 95,200 199,295 649,300 23,600 212,175 257,600
<u>12-0000.0</u> 12-2113.100 12-3000.130	2 2 10 10 10 10 10 10 10 10	136,000.00 sf EURNISHINGS Shades - Blinds Window Shades Shades - Blinds 136,000.00 sf Manufactured Casework PLAM Countertops w/Backsplash PLAM Countertops w/Backsplash PLAM Base Cabinets PLAM Tall / Teacher Cabinets PLAM Vall Cabinets PLAM Wall Cabinets Epoxy Peg Boards	136,000.00 1,733.00 755.00 20.00 123.00 368.00 20.00	sf lf ea ea ea ea ea ea	0.70 /sf 0.70 /sf 115.00 /lf 860.00 /ea 1,180.00 /ea 1,725.00 /ea 700.00 /ea 950.00 /ea	<u>95,200</u> 95,200 199,295 649,300 23,600 212,175 257,600 19,000
<u>12-0000.0</u> 12-2113.100 12-3000.130	2 2 10 10 10 10 10 10 10 10 10	136,000.00 sf EURNISHINGS Shades - Blinds Window Shades Shades - Blinds 136,000.00 sf Manufactured Casework PLAM Countertops w/Backsplash PLAM Base Cabinets PLAM Cubbies PLAM Tall / Teacher Cabinets PLAM Vall Cabinets PLAM Wall Cabinets Epoxy Peg Boards Epoxy Tops w/Backsplash	136,000.00 1,733.00 755.00 20.00 123.00 368.00 20.00 512.00	sf lf ea ea ea ea ea lf	0.70 /sf 0.70 /sf 115.00 /lf 860.00 /ea 1,180.00 /ea 1,725.00 /ea 700.00 /ea 950.00 /ea 340.00 /lf	<u>95,200</u> 95,200 199,295 649,300 23,600 212,175 257,600 19,000 174,080
<u>12-0000.0</u> 12-2113.100 12-3000.130	2 2 10 10 10 10 10 10 10 10 10 10	136,000.00 sf EURNISHINGS Shades - Blinds Window Shades Shades - Blinds 136,000.00 sf Manufactured Casework PLAM Countertops w/Backsplash PLAM Base Cabinets PLAM Cubbies PLAM Tall / Teacher Cabinets PLAM Vall Cabinets PLAM Vall Cabinets Epoxy Peg Boards Epoxy Tops w/Backsplash Epoxy Sills / Backsplash Epoxy Sills / Backsplash	136,000.00 1,733.00 755.00 20.00 123.00 368.00 20.00 512.00 252.00	sf If ea ea ea ea If If	0.70 /sf 0.70 /sf 115.00 /lf 860.00 /ea 1,180.00 /ea 1,725.00 /ea 700.00 /ea 950.00 /ea 340.00 /lf 240.00 /lf	<u>95,200</u> 95,200 199,295 649,300 23,600 212,175 257,600 19,000 174,080 60,480
<u>12-0000.0</u> 12-2113.100 12-3000.130	2 2 10 10 10 10 10 10 10 10 10 10	136,000.00 sf EURNISHINGS Shades - Blinds Window Shades Shades - Blinds 136,000.00 sf Manufactured Casework PLAM Countertops w/Backsplash PLAM Countertops w/Backsplash PLAM Base Cabinets PLAM Cubbies PLAM Tall / Teacher Cabinets PLAM Vall Cabinets Epoxy Peg Boards Epoxy Tops w/Backsplash Epoxy Tops w/Backsplash Epoxy Sills / Backsplash Epoxy Sills / Backsplash Epoxy Sills / Backsplash Epoxy Colling of the Upon Line of the Colling	136,000.00 1,733.00 755.00 20.00 123.00 368.00 20.00 512.00 252.00 49.00	sf If ea ea ea ea If If ea	0.70 /sf 0.70 /sf 0.70 /sf 115.00 /lf 860.00 /ea 1,180.00 /ea 1,725.00 /ea 700.00 /ea 950.00 /ea 340.00 /lf 240.00 /lf 2,550.00 /ea	95,200 95,200 95,200 199,295 649,300 23,600 212,175 257,600 19,000 174,080 60,480 124,950
<u>12-0000.0</u> 12-2113.100 12-3000.130	2 2 10 10 10 10 10 10 10 10 10 10 10	136,000.00 sf EURNISHINGS Shades - Blinds Window Shades Shades - Blinds Shades - Blinds 136,000.00 sf Manufactured Casework PLAM Countertops w/Backsplash PLAM Countertops w/Backsplash PLAM Cabinets PLAM Cabinets PLAM Vall Cabinets Epoxy Peg Boards Epoxy Peg Boards Epoxy Tops w/Backsplash Epoxy Sills / Backsplashs Mobile Workstations w/Epoxy Tops Mobile Workstations w/Epoxy Tops Mobile Workstations w/Epoxy Tops	136,000.00 1,733.00 755.00 20.00 123.00 368.00 20.00 512.00 252.00 49.00 322.00	sf If ea ea ea If If ea ea	0.70 /sf 0.70 /sf 0.70 /sf 115.00 /lf 860.00 /ea 1,180.00 /ea 1,725.00 /ea 700.00 /ea 950.00 /ea 340.00 /lf 240.00 /lf 2,550.00 /ea 150.00 /ea	95,200 95,200 95,200 199,295 649,300 23,600 212,175 257,600 19,000 174,080 60,480 124,950 48,300

136,000.00 sf



				Total	
Item	Description	Takeoff Qty		Unit Cost	Amount
12-3553.150 00 ⁻	Music Education Casework Band / Music Storage Cabinets, Allowance Music Education Casework	1.00	ls	85,000.00_/ls 0.625/sf	<u> </u>
12-6600.100 1(1(Stands & Bleachers Telescopic Bleachers - Gymnasium Band Room, Movable Bleachers - NIC Stands & Bleachers 136,000.00 sf	1.00	ls	175,000.00 /ls 1.287/sf	175,000 175,000
	FURNISHINGS 136,000.00 sf			15.618/sf	2,123,980
<u>14-0000.000</u>	CONVEYING SYSTEMS				
14-2000.100	Elevators & Conveying Elevator Usage - Operator Elevator, Holeless Hydraulic Elevators & Conveying 136,000.00 sf	10.00 2.00	cd stop	2,500.00 /cd /stop 1.581/sf	25,000 190,000 215,000
	CONVEYING SYSTEMS			1.581/sf	215,000
	136,000.00 sf				
<u>21-0000.000</u>	FIRE SUPRESSION				
21-0010.001	Fire Protection Fire Protection Standpipe 8" Fire Service 4" Sprinkler Main w/ Fittings & Hangers 3" Sprinkler Main w/ Fittings & Hangers 2-1/2" Sprinkler Main w/ Fittings & Hangers Fire Department Connection Alarm valve Valves and accessories	1.00 2,330.00 455.00 820.00 1.00 3.00 1.00	ls If If ea ea Is	12,000.00 /ls 52.50 /lf 43.25 /lf 41.10 /lf 3,200.00 /ea 4,800.00 /ea 25,000.00 /ls	12,000 122,325 19,679 33,702 3,200 14,400 25,000

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				Total	
Item	Description	Takeoff Qty		Unit Cost	Amount
21-0010.001	Fire Protection				
1	Fire Protection General Conditions				
1	Hydraulic Calculations	1.00	ls	3,000.00 /ls	3,000
1	Fire Protection Sprinkler System				
1	Zone Control Valve	2.00	ea	2,200.00 /ea	4,400
1	Sprinkler Head - Dry	10.00	ea	275.00 /ea	2,750
1	Sprinkler Head - Pendant/Upright	1,236.00	sf	120.00 /sf	148,320
1	Distribution & Branch Piping	17,500.00	lf	35.00 /lf	612,500
1	Testing & Inspection	1.00	ls	8,000.00 /ls	8,000
1	Drain & Fill System	1.00	ls	2,000.00 /ls	2,000
1	Coordination and Management	1.00	ls	40,000.00 /ls	40,000
1	Permits and Fees	1.00	ls	12,000.00 /ls	12,000
1	Coordination Drawings / BIM	1.00	ls	25,000.00 /ls	25,000
1	Seismic Restraints / Bracing - includes design	1.00	ls	7,000.00 /ls	7,000
1	Coring & Patching / Firestopping	1.00	ls	8,000.00 /ls	8,000
1	Hoisting & Rigging / Floor Loading	1.00	ls	5,000.00 /ls	5,000
	Fire Protection			8.149/sf	1,108,276
	136,000.00 sf				
	FIRE SUPRESSION			8.149/sf	1,108,276
	136,000.00 sf				
22 0000 000					
22-0000.000	PLOMBING				
22-0010.001	Plumbing				
1	Plumbing Fixtures				
1	P-1 Water Closet, wall/sensor	27.00	ea	2,400.00 /ea	64,800
1	P-2 Water Closet, wall/sensor	32.00	ea	2,450.00 /ea	78,400
1	P-3 Urinal, wall/sensor	7.00	ea	2,200.00 /ea	15,400
1	P-4 Urinal, wall/sensor	7.00	ea	2,200.00 /ea	15,400
1	Domestic Water Distribution				
1	4" Domestic Water Pipe (Type "L" Cu.)	430.00	lf	140.00 /lf	60,200
1	3" Domestic Water Pipe (Type "L" Cu.)	80.00	lf	85.00 /lf	6,800

1	Sanitary Waste & Vent Piping (Under Ground)					
1	Storm Piping (Under Ground)					
1	RD-1 - (Comb RD/OD)	34.00	ea	1,600.00	/ea	54,400
1	Downspout Nozzle	16.00	ea	1,200.00	/ea	19,200
1	Kitchen Plumbing Connections					
1	Kitchen Equipment and Fixture Connections	1.00	ls	15,000.00	/ls	15,000
1	Radon Mitigation System					
1	4" PVC (Sched 40) - Risers	800.00	lf	53.00	/lf	42,400
1	P-5 Lavatory, wall/sensor	30.00	ea	2,300.00	/ea	69,000
1	P-6 Lavatory, wall/sensor	33.00	ea	2,300.00	/ea	75,900
1	P-7 Water Cooler	7.00	ea	4,500.00	/ea	31,500
1	P-8 Mop Receptor	3.00	ea	2,200.00	/ea	6,600
1	P-9 Sink	25.00	ea	1,900.00	/ea	47,500



					Total		
ltem		Description	Takeoff Qty		Unit Cost		Amount
22-0010.001		Plumbing					
	1	P-10L/10R Sink	42.00	ea	1,900.00	/ea	79,800
	1	P-11 Sink	4.00	ea	1,900.00	/ea	7,600
	1	P-12 Art Sink, 2 faucets and interceptor	8.00	ea	2,850.00	/ea	22,800
	1	P-13 Exam Sink	2.00	ea	1,800.00	/ea	3,600
	1	P-14 Shower Base, Valve & Drain	2.00	ea	2,400.00	/ea	4,800
	1	P-15 Shower Valve & Drain	2.00	ea	2,000.00	/ea	4,000
	1	P-16 Emergency Shower/Eyewash	12.00	ea	3,500.00	/ea	42,000
	1	P-17 Water Closet, floor/sensor	2.00	ea	2,000.00	/ea	4,000
	1	P-18 Washer Valve & Drain	2.00	ea	1,250.00	/ea	2,500
	1	L-1 Faucet & Trim	20.00	ea	1,250.00	/ea	25,000
	1	L-2 Faucet & Trim	8.00	ea	1,250.00	/ea	10,000
	1	L-3 Faucet & Trim	4.00	ea	1,250.00	/ea	5,000
	1	L-4 Faucet & Trim	5.00	ea	1,250.00	/ea	6,250
	1	2-1/2" Domestic Water Pipe (Type "L" Cu.)	620.00	lf	64.00	/lf	39,680
	1	2" Domestic Water Pipe (Type "L" Cu.)	1,385.00	lf	45.00	/lf	62,325
	1	1-1/2" Domestic Water Pipe Type "L" Cu.)	380.00	lf	35.00	/lf	13,300
	1	1-1/4" Domestic Water Pipe (Type "L" Cu.)	585.00	lf	32.00	/lf	18,720
	1	1" Domestic Water Pipe (Type "L" Cu.)	565.00	lf	26.00	/lf	14,690
	1	3/4" Domestic Water Pipe (Type "L" Cu.)	1,665.00	lf	21.00	/lf	34,965
	1	1/2" Domestic Water Pipe (Type "L" Cu.)	3,375.00	lf	19.00	/lf	64,125
	1	Fixture Rough In Piping	5,000.00	lf	28.00	/lf	140,000
	1	Misc. Valves, Tags & Fittings	1.00	ls	68,221.00	/ls	68,221
	1	Pipe Insulation - (1/2" - 1-1/4")	11,190.00	lf	11.00	/lf	123,090
	1	Pipe Insulation - (1-1/2" - 5")	2,895.00	lf	16.00	/lf	46,320
	1	Tempered Water Piping	175.00		45.00		04.075
	1	2" TWS&R - Tempered Water Pipe - Main (Type	475.00	lt	45.00	/lt	21,375
	1	1-1/4" TWS&R - Tempered Water Pipe - Main	125.00	lf	32.00	/lf	4,000
		(Type "L" Cu.)					
	1	Misc. Valves, Tags & Fittings	1.00	ls	3,806.00	/ls	3,806
	1	Pipe Insulation - (1/2" - 1-1/4")	600.00	lf	11.00	/lf	6,600
	1	Domestic Water Equipment					
	1	Backflow Preventer, 4"	2.00	ea	7,950.00	/ea	15,900
	1	Backflow Preventer, 2"	2.00	ls	990.00	/ls	1,980
	1	Backflow Preventer, 1"	1.00	ea	990.00	/ea	990
	1	PRV Station	1.00	ea	5,000.00	/ea	5,000
	1	Circulating Pump	2.00	ea	2,200.00	/ea	4,400
	1	Heat Pump Water Heaters	2.00	ea	65,000.00	/ea	130,000
	1	Hot Water Storage Tank	3.00	ea	20,000.00	/ea	60,000
	1	Expansion Tank	2.00	ea	2,400.00	/ea	4,800
	1	Water Meter, 4"	1.00	ea	5,500.00	/ea	5,500
	1	MV-1 - MV-2 - Mixing Valve	2.00	ea	2,800.00	/ea	5,600
	1	HB - Hose Bibb	14.00	ea	250.00	/ea	3,500
	1	Wall Hydrant	10.00	ea	700.00	/ea	7,000
	1	6" Sanitary Waste & Vent Pipe (U)	75.00	lt Ir	74.00	/ †	5,550
	1	4" Sanitary Waste & Vent Pipe (U)	1,640.00	lt Ir	62.00	/lt	101,680
	1	3" Sanitary Waste & Vent Pipe (U)	4/5.00	lT LE	55.00	/IT	26,125
	1	2" Sanitary Waste & Vent Pipe (U)	850.00	IT	45.00	/IT	38,250
	1 1	Greanout Sanitary Waste & Vent Piping (Above Ground)	42.00	ea	450.00	/ea	18,900
	1	4" Sanitary Waste & Vent Pipe (A)	1.560.00	lf	68 00	/lf	106.080
	1	3" Sanitary Waste & Vent Pipe (A)	200.00	lf	59.00	/lf	11,800



					Total	
Item	Description	Takeoff Qty		Unit Cost		Amount
22-0010.001	Plumbing					
	1 2" Sanitary Waste & Vent Pipe (A)	2,090.00	lf	48.00	/lf	100,320
	1 1-1/2" Kitchen Waste & Vent Pipe (A)	180.00	lf	42.00	/lf	7,560
	1 Fixture Rough In Piping	3,750.00	lf	55.00	/lf	206,250
	1 Sanitary and Vent Equipment					
	1 Grease Interceptor - Interior	1.00	ea	10,000.00	/ea	10,000
	1 FD-1 - Floor Drain	35.00	ea	1,000.00	/ea	35,000
	1 FD-2 - Floor Drain	2.00	ea	1,200.00	/ea	2,400
	1 FD-3 - Floor Sink	9.00	ea	1,600.00	/ea	14,400
	1 FD-4 - Floor Drain	1.00	ea	1,200.00	/ea	1,200
	1 Electronic Trap Primer	20.00	ea	1,100.00	/ea	22,000
	1 SP-1 - Elevator Sump Pump w/Oil Separator	1.00	ea	12,000.00	/ea	12,000
	1 Lab Waste & Vent Piping (Under Ground)					
	1 4" Lab Waste & Vent Pipe (U)	315.00	lf	85.00	/lf	26,775
	1 3" Lab Waste & Vent Pipe (U)	390.00	lf	70.00	/lf	27,300
	1 Cleanout	16.00	ea	600.00	/ea	9,600
	1 Lab Waste & Vent Piping (Above Ground)					
	1 2" Lab Waste & Vent Pipe (A)	605.00	lf	85.00	/lf	51,425
	1 Fixture Rough In Piping	555.00	lf	75.00	/lf	41,625
	1 Lab Waste Neutralization System	1.00	ls	45,000.00	/ls	45,000
	1 15" Storm Pipe (U)	175.00	lf	310.00	/lf	54,250
	1 12" Storm Pipe (U)	370.00	lf	225.00	/lf	83,250
	1 10" Storm Pipe (U)	210.00	lf	160.00	/lf	33,600
	1 8" Storm Pipe (U)	330.00	lf	120.00	/lf	39,600
	1 6" Storm Pipe (U)	405.00	lf	75.00	/lf	30,375
	1 Storm Piping (Above Ground)					
	1 8" Storm Pipe (A)	525.00	lf	175.00	/lf	91,875
	1 6" Storm Pipe (A)	2,415.00	lf	90.00	/lf	217,350
	1 4" Storm Pipe (A)	840.00	lf	68.00	/lf	57,120
	1 Drain Pipe Insulation	2,915.00	lf	18.00	/lf	52,470
	1 4" PVC (Sched 40) - Underground	3,150.00	lf	48.00	/lf	151,200
	1 Plumbing General Conditions					
	1 Testing & Disinfection	1.00	ls	12,000.00	/ls	12,000
	1 Coordination & Management	1.00	ls	120,000.00	/ls	120,000
	1 Permits and Fees	1.00	ls	45,000.00	/ls	45,000
	1 Coordination Drawings / BIM	1.00	ls	60,000.00	/ls	60,000
	1 Seismic Restraints / Bracing	1.00	ls	40,000.00	/ls	40,000
	1 Coring & Patching / Firestopping	1.00	ls	25,000.00	/ls	25,000
	1 Hoisting & Rigging / Floor Loading	1.00	ls	20,000.00	/ls	20,000
	1 Equipment start up and inspection	1.00	ls	15,000.00	/ls	15,000
	1 Access Panels - Furnish Only	1.00	ls	10,000.00	/ls	10,000
	Plumbing			27.978	/sf	3,805,067
	136,000.00 sf					

PLUMBING

136,000.00 sf

3,805,067

27.978/sf



				Total		
Item	Description	Takeoff Qty		Unit Cost	lotai	Amount
<u>23-0000.000</u>	<u>HVAC</u>					
23-0010.001						
1	Heating Equipment	0.00		05 000 00		400.000
1	Heat Exchanger HX,1/2, 230 GPM	2.00	ea	65,000.00	/ea	130,000
1	P-1A/1B/1C, 200 GPM W/VFD	3.00	ea	20,000.00	/ea	60,000
1	BP-1A/1B, 110 GPM	2.00	ea	11,000.00	/ea	22,000
1	Electric Boller EWB-1/2, 240 KW	2.00	ea	65,000.00	/ea	130,000
1		000.00	4	2 500 00	/ h = -=	500.000
1	ASHP Condensing Units - DUAS	208.00	ton	2,500.00	/lon /ton	520,000
1	ASHP Condensing Units - KTUS	105.00	ton	2,500.00	/lon	262,500
1	ASHP Condensing Units - VRF	20.00	ton	2,500.00	/lon /ton	50,000
1		150.00	lon	3,000.00		450,000
1	P-ZA/ZD/ZC, 300 GPW W/VFD Air Separator	3.00	ea	23,000.00	/ea	69,000 5 500
1	All Separator	1.00	ea	5,500.00	/ea	5,500
1	Ruiding Management System	126 000 00	of	0.50	lof	1 202 000
1		130,000.00	SI	9.50	/SI	1,292,000
1	Testing & balancing	126 000 00	of	1.20	lof	162 200
1	HV/AC Caparal Paguiramenta	130,000.00	51	1.20	/51	103,200
1	Commissioning Support	1.00	la	25 000 00	//o	25.000
1	Coordination & management	1.00	15	25,000.00	/15	25,000
1	Air Separator	1.00	IS	250,000.00	/15	250,000
1	All Separator	1.00	ea	5,500.00	/ea	5,500
1	Expansion Tank	1.00	ea	4,000.00	/ea	4,800
1	Expansion rank Buffer Tenk	1.00	ea	4,000.00	/ea	4,000
1		1.00	ea	7,000.00	/ea	7,000
1	Ductwork Colvanized	136 000 00	lbe	18 50	/lbc	2 516 000
1	Kitchon Grosso Duct	100,000.00	lo lo	65 000 00	/105	2,310,000
1		313.00	15	00,000.00	/15	71 000
1	Cym Poturn Grill	4 00	ea	250.00	/ea	71,990
1	Displacement Diffuser	4.00	ea	475.00		28 050
1	Lipear Diffusor	336.00	ea If	475.00	/ea /If	30,930
1	Miss Ductwork Accessories Volume Dompors	136 000 00	II of	125.00	/11 /cf	42,000
ļ	Fire Dampers, Volume Dampers, etc.	130,000.00	51	0.00	/51	01,000
1	Hydronic Dining (Includes Hangers & Supports)					
1	Mochanical Room Dining	1.00	le.	100 000 000	//c	100 000
1	Hydronic Distribution Dining Mains	10 000 00	IS If	100,000.000	/15 /If	000,000
1	Hydronic Distribution Piping - Mains	6 750 00	II If	50.00	/11 /1f	337 500
1	Valves and Accessories	0,750.00	II Ie	80.000	/II /Ie	80,000
1	Refrigerant Pining (Includes Hangers & Supports)	1.00	15	00,000.00	/15	00,000
1	Refrigerant Piping (moldes Plangers & Supports)	1 450 00	If	43.00	/If	62 350
I	Fan Coil Unit)	1,400.00		45.00	/11	02,000
1	Refrigerant Dining - Mains (Branch Selectors to	400.00	If	55.00	/If	22,000
I	Condenser Unit)	400.00		55.00	/11	22,000
1	Refrigerant Dining - Roofton Equipment	600.00	If	80.00	/If	48 000
1	Condensate Pining	000.00	п	00.00	/11	40,000
1	Condensate Train Pine (Type "I " Cu)	550.00	lf	38 00	/lf	20 000
1	Insulation	550.00	н	30.00	/11	20,900
1	Duct wran insulation	95 000 00	sf	6 85	/sf	650 750
1	Pine Insulation	10 200 00	lf	15 00	/lf	288 000
1		10,200.00		13.00	7.0	200,000

^{2/8/2024}



					-	Total	
Item		Description	Takeoff Qty		Unit Cost		Amount
23-0010.001		HVAC					
	1	Exhaust Fans					
	1	EF-1, 4,000 CFM (lab exhaust)	0.00	NIC			
	1	EF-2, 2,250 CFM	1.00	ea	5,500.00	/ea	5,500
	1	EF-3, 980 CFM	1.00	ea	3,500.00	/ea	3,500
	1	KEF-1, 8,700 CFM	1.00	ea	12,000.00	/ea	12,000
	1	ASF-1 - Destratification Fan	8.00	ea	5,500.00	/ea	44,000
	1	Kitchen Hood w/Ansul System	1.00	ea	20,000.00	/ea	20,000
	1	Central Air Handling Equipment					
	1	DOAS-1 - Dedicated Outside Air Unit	1,200.00	cfm	28.00	/cfm	33,600
	1	DOAS-2 - Dedicated Outside Air Unit	1,200.00	cfm	28.00	/cfm	33,600
	1	DOAS-3 - Dedicated Outside Air Unit	5,300.00	cfm	28.00	/cfm	148,400
	1	DOAS-4 - Dedicated Outside Air Unit	8,000.00	cfm	28.00	/cfm	224,000
	1	DOAS-5 - Dedicated Outside Air Unit	3,200.00	cfm	28.00	/cfm	89,600
	1	DOAS-6 - Dedicated Outside Air Unit	6,000.00	cfm	28.00	/cfm	168,000
	1	DOAS-7 - Dedicated Outside Air Unit	9,000.00	cfm	28.00	/cfm	252,000
	1	RTU-1 - Rooftop HVAC Unit	8,000.00	cfm	24.00	/cfm	192,000
	1	RTU-2 - Rooftop HVAC Unit	2,000.00	cfm	24.00	/cfm	48,000
	1	RTU-3 - Rooftop HVAC Unit	6,500.00	cfm	24.00	/cfm	156,000
	1	RTU-4 - Rooftop HVAC Unit	6,000.00	cfm	24.00	/cfm	144,000
	1	RTU-5 - Rooftop HVAC Unit	3,000.00	cfm	24.00	/cfm	72,000
	1	MAU-1 - Kitchen Make-up Air Unit	5,500.00	cfm	24.00	/cfm	132,000
	1	ERV-1 - Energy Recovery Ventilator, 200 CFM	1.00	ea	5,000.00	/ea	5,000
	1	Roof Curb	12.00	ea	6,000.00	/ea	72,000
	1	Sound Attenuation	1.00	ls	60,000.00	/ls	60,000
	1	Heating & Cooling Terminal Equipment	4.00		10 000 00	,	10.000
	1	Ductless Split System	1.00	ea	10,000.00	/ea	10,000
	1	VRF Indoor Unit	9.00	ea	3,500.00	/ea	31,500
	1		2.00	ea	7,650.00	/ea	15,300
	1	Fin Tube Radiation	1,025.00	IT	140.00	/IT	143,500
	1	VAV Terminal Unit	7.00	ea	1,200.00	/ea	8,400
	1	VAV Terminal Unit, Fan-Powered	00.80	ea	2,000.00	/ea	136,000
	1	Misc. Terminal Heating & Cooling Equipment	136,000.00	SI	3.00	/SI //-	408,000
	1	Permits and lees	1.00	IS	138,000.00	/IS //-	138,000
	1		1.00	IS	80,000.00	/IS //-	80,000
	1	Seismic restraints / bracing	1.00	IS	35,000.00	/IS //o	35,000
	1	Coning & patching / inestopping	1.00	IS In	40,000.00	/15	40,000
	1	Fouring & figging / floor loading	1.00	is Io	25 000 00	/15	25,000
	1		1.00	15	25,000.00	/15	25,000
	1	Access panels - rumish only Bromium for Coothormal System (Diping and	1.00	IS	10,000.00	/15	10,000
	I	Fremium for Geothermal System (Fiping and					
		HVAC			87.321	/Sť	11,875,640
		136,000.00 sf					

HVAC

136,000.00 sf

11,875,640

87.321/sf



				Total		
Item	Description	Takeoff Qty		Unit Cost	Amour	it
26-0000.00	<u> ELECTRICAL</u>					
26-0000 100	Flectrical					
20 00001100	2 Normal Power and Distribution					
	2 Meter provisions/metering	12 00	ea	1.500.00 /ea	18.00	0
	2 Power Monitoring	1 00	ea	25 000 00 /ea	25.00	õ
	2 4000A 480/277V main distribution panel with SPD	1.00	ea	265 000 00 /ea	265.00	0
	2 1200A 480/277V distribution panelboard	1.00	ea	40 000 00 /ea	40.00	õ
	2 250A 480/277V distribution panelboard	3.00	ea	25 000 00 /ea	75.00	õ
	2 150A 480/277V panelboard (MLO)	1 00	ea	2 500 00 /ea	2 50	õ
	2 125A 480/277V panelboard (MLO)	1.00	ea	2,200.00 /ea	2.20	0
	2 Lighting and Controls			_,,	_,_0	
	2 Type AD8	381.00	ea	960.00 /ea	365 76	0
	2 Type B2	47.00	ea	250.00 /ea	11 75	0
	2 Type B4	22.00	ea	250.00 /ea	5 50	0
	2 Type C (Strip)	92.00	ea	165.00 /ea	15.18	0
	2 60A 480/277V panelboard (MLO)	3.00	ea	1.000.00 /ea	3.00	0
	2 225KVA transformer K-13	1.00	ea	36.730.00 /ea	36.73	0
	2 75KVA transformer K-13	1.00	ea	11.675.00 /ea	11.67	5
	2 45KVA transformer K-13	3.00	ea	8.690.00 /ea	26.07	0
	2 30KVA transformer K-13	4.00	ea	7.470.00 /ea	29.88	0
	2 30KVA transformer	2.00	ea	4.940.00 /ea	9.88	0
	2 800A 208/120V distribution panelboard (MCB)	1.00	ea	25.000.00 /ea	25.00	0
	2 225A 120/208V double tub panelboard	3.00	ea	7.500.00 /ea	22.50	0
	2 225A 120/208V panelboard (Shunt trip)	1.00	ea	6.500.00 /ea	6.50	0
	2 150A 120/208V panelboard (MLO)	2.00	ea	2,500.00 /ea	5,00	0
	2 125A 120/208V panelboard (MCB)	6.00	ea	3.000.00 /ea	18.00	0
	2 125A 120/208V panelboard (MLO)	3.00	ea	2.200.00 /ea	6.60	0
	2 100A 120/208V panelboard	3.00	ea	2,500.00 /ea	n 7,50	0
	2 150A 3P enclosed circuit breaker	7.00	ea	2,070.00 /ea	ı 14,49	0
	2 Feeders					
	2 1200A feed (alum)	55.00	lf	516.00 /lf	28,38	0
	2 800A feed (alum)	30.00	lf	340.00 /lf	10,20	0
	2 400A feed (alum)	80.00	lf	170.00 /lf	13,60	0
	2 250A feed (alum)	820.00	lf	88.00 /lf	72,16	0
	2 225A feed (alum)	295.00	lf	74.00 /lf	21,83	0
	2 150A feed (alum)	160.00	lf	47.50 /lf	7,60	0
	2 125A feed (alum)	285.00	lf	38.00 /lf	10,83	0
	2 100A feed (alum)	45.00	lf	33.50 /lf	1,50	8
	2 70A feed	200.00	lf	36.00 /lf	7,20	0
	2 60A feed	985.00	lf	28.00 /lf	27,58	0
	2 Emergency Power and Distribution					
	2 600KW diesel fueled generator set in weatherproof enclosure (Quote)	1.00	ls	320,000.00 /ls	320,00	0
	2 600KW diesel fueled generator set in weatherproof enclosure (Labor)	1.00	ea	12,250.00 /ea	ı 12,25	0
	2 400A automatic transfer switch (Labor)	1 00	ea	1 100 00 <i>/</i> ea	1 10	0
	2 Annunciator (Labor)	1 00	ea	850.00 /ea		0
	2 1200A automatic transfer switch	1 00	ea	25 100 00 /ea	25.10	0
	2 1200A docking station (Labor)	1.00	ea	2 530 00 /ea	2 53	0
	2 1200A 480/277V distribution panelboard EMSB	1.00	ea	65,000.00 /ea	65,00	0



					-	Total	
Item		Description	Takeoff Qty		Unit Cost		Amount
26-0000.100		Electrical					
	2	400A 480/277V distribution panelboard (MLO)	1.00	ea	12,000.00	/ea	12,000
	2	100A 480/277V panelboard (MLO)	3.00	ea	1,750.00	/ea	5,250
	2	75KVA transformer	1.00	ea	7,900.00	/ea	7,900
	2	250A 208/120V distribution panelboard	1.00	ea	25,000.00	/ea	25,000
	2	100A 208/120V panelboard (MLO)	1.00	ea	1,750.00	/ea	1,750
	2	Feeders					
	2	1200A feed (alum)	40.00	lf	516.00	/lf	20,640
	2	400A feed (alum)	55.00	lf	170.00	/lf	9,350
	2	250A feed (alum)	15.00	lf	88.00	/lf	1,320
	2	125A feed (alum)	30.00	lf	38.00	/lf	1,140
	2	100A feed (alum)	35.00	lf	33.50	/lf	1,173
	2	100A feed (MI cable)	800.00	lf	99.00	/lf	79,200
	2	MI cable connections	32.00	ea	250.00	/ea	8,000
	2	Machine and Equipment Power					
	2	Misc Equipment wiring	136,000.00	sf	1.00	/sf	136,000
	2	Elevator feed and connection	1.00	ea	6,000.00	/ea	6,000
	2	Chiller/Heater unit feed and connection	1.00	ea	12,000.00	/ea	12,000
	2	ASHP feed and connection	3.00	ea	5,000.00	/ea	15,000
	2	Boiler connection	2.00	ea	2,500.00	/ea	5,000
	2	Boiler feed and connection (Electric, 300A, 480V,	140.00	lf	142.00	/lf	19,880
		70LF ea.)					
	2	Split unit feed and connection	1.00	ea	2,500.00	/ea	2,500
	2	VRF/Indoor feed and connection	9.00	ea	650.00	/ea	5,850
	2	VRF/BC feed and connection	2.00	ea	650.00	/ea	1,300
	2	ERV feed and connection	1.00	ea	5.000.00	/ea	5.000
	2	MAU feed and connection	1.00	ea	5.500.00	/ea	5,500
	2	Pump feed and connection	7.00	ea	1.200.00	/ea	8,400
	2	DOAS feed and connection	7.00	ea	5.000.00	/ea	35.000
	2	RTU feed and connection	5.00	ea	5.000.00	/ea	25.000
	2	MAU feed and connection	1.00	ea	3,500.00	/ea	3.500
	2	FRU feed and connection	1.00	ea	5 000 00	/ea	5,000
	2	EF feed and connection	3.00	ea	1 000 00	/ea	3,000
	2	WH feed and connection	2.00	ea	1.200.00	/ea	2,400
	2	Destratification fan feed and connection	8.00	ea	1 200 00	/ea	9,600
	2	Cord reel with feed and connection	10.00	ea	1,200.00	/ea	15,000
	2	Motorized door feed and connection (allow)	8.00	ea	1,500.00	/ea	12,000
	2	Kitchen/Servery Equipment feed and connections	1.00	ls	30,000,00	/ls	30,000
	2	KFF feed and connection	1.00	ea	1 500 00	/ea	1,500
	2	Hood feed and connection	1.00	ea	1,500.00	/ea	1,500
	2	Scoreboard/ shot clocks with feed and connection	2.00		15 000 00	/loc	30,000
	2	Misc. gvm equipment feed and connections	1.00	ls	15,000.00	/100	15,000
	2	Type CP1 (Decorative)	20.00	ea	1 500 00	/io /ea	30,000
	2		561.00	62	400.00	/ca /ea	224 400
	2	Type G (Gym)	30.00	62	550.00	/ea	16 500
	2	Type 6 (Gym)	63.00	6a	250.00	/ca /ea	15,500
	2		24.00	6a	800.00	/ca /oa	10,750
	2		24.00	6a	1 200 00	/ca /oa	2 400
	∠ 2		2.00 17.00	62 62	1,200.00	/ea	2,400 6 200
	∠ ?	Type 112	1/1.00	6d	250.00	/ca /oa	25 250
	2	Type 02 Type $7W$ (walpak)	141.00	c a	200.00	/ea	12 050
	∠ 2	rype zww (waipan) Exit sign (not depicted at this scope lovel)	29.00 136.000.00	Ed A2	400.00	, c a /oa	13,000
	∠ 2	Lighting not depicted at this scope level	136 000 00	6a	2.00	/ca /oa	100,000
	2	Lighting not depicted at this scope level	100,000.00	Cd	5.00	,ca	400,000



					-	Fotal	
Item		Description	Takeoff Qty		Unit Cost		Amount
26-0000.100		Electrical					
	2	Lighting Controls (Wireless)					
	2	Network lighting controls	136,000.00	sf	2.00	/sf	272,000
	2	Occupancy sensor	388.00	ea	220.00	/ea	85,360
	2	S - Single pole switch	234.00	ea	36.00	/ea	8,424
	2	WAC	9.00	ea	350.00	/ea	3,150
	2	Lighting Circuitry					
	2	Device box	2,100.00	ea	32.00	/ea	67,200
	2	3/4" EMT	5,000.00	ea	11.50	/ea	57,500
	2	#12 THHN	25,000.00	ea	1.10	/ea	27,500
	2	12/2 MC	40,000.00	ea	6.25	/ea	250,000
	2	LV cable	7,000.00	ea	2.20	/ea	15,400
	2	Branch Circuitry					
	2	Device plate	1,225.00	ea	6.00	/ea	7,350
	2	WP device plate	3.00	ea	22.00	/ea	66
	2	Floor box	93.00	ea	550.00	/ea	51,150
	2	Device box	1,270.00	ea	32.00	/ea	40,640
	2	3/4" EMT	7,000.00	lf	11.50	/lf	80,500
	2	#12 THHN	35,000.00	lf	1.10	/lf	38,500
	2	12/2 MC	30,000.00	lf	6.25	/lf	187,500
	2	Lightning and Power Specialties					
	2	Building & service grounding	1.00	ls	20,000.00	/ls	20,000
	2	Lightning protection System (not depicted in specs or plans)	1.00	ls	80,000.00	/ls	80,000
	2	Miscellaneous Systems					
	2	Coring	1.00	ls	10,000.00	/ls	10,000
	2	Temporary power and lights	1.00	ls	125,000.00	/ls	125,000
	2	Seismic restraints	1.00	ls	5,000.00	/ls	5,000
	2	Fireproofing	1.00	ls	2,500.00	/ls	2,500
	2	Subcontractor supervision & general conditions	1.00	ls	150,000.00	/ls	150,000
	2	BIM & Coordination	1.00	ls	150,000.00	/ls	150,000
	2	Seismic restraints	1.00	ls	5,000.00	/ls	5,000
	2	Fees & permits	1.00	ls	120,000.00	/ls	120,000
	2	Testing and Commissioning					
	2	Testing and commissioning/Coordination study	1.00	ls	25,000.00	/ls	25,000
	2	General Power					
	2	Duplex receptacle	750.00	ea	36.00	/ea	27,000
	2	Duplex receptacle in floor box	93.00	ea	36.00	/ea	3,348
	2	Duplex receptacle (USB)	37.00	ea	46.00	/ea	1,702
	2	Duplex receptacle (Hosp)	10.00	ea	46.00	/ea	460
	2	Double duplex receptacle	97.00	ea	72.00	/ea	6,984
	2	GFI duplex receptacle	317.00	ea	51.00	/ea	16,167
	2	GFI duplex receptacle (Hosp)	3.00	ea	57.00	/ea	171
	2	Special purpose outlet	12.00	ea	65.00	/ea	780
	2	Devices not depicted at this scope level	136,000.00	sf	0.50	/sf	68,000
	2	PV Conduit and Pulls for future	1.00	ls	30,000.00	/ls	30,000
		Electrical			38.285	/sf	5,206,787

136,000.00 sf



					Total			
					IUlai			
Item		Description	Takeoff Qty		Unit Cost	Amount		
		ELECTRICAL			38.285/sf	5,206,787		
		136.000.00 sf						
		,						
<u>27-0000.</u>	<u>000</u>	COMMUNICATIONS						
27-2000.001		Data Communications System						
	001	PA Clock System						
	001	Head end	1.00	ls	30,000.00 /ls	30,000		
	001	ECS	82.00	ea	350.00 /ea	28,700		
	001	Clock	92.00	ea	250.00 /ea	23,000		
	001	Speaker (Talk back)	69.00	ea	300.00 /ea	20,700		
	001	Speaker	68.00	ea	250.00 /ea	17,000		
	001	Speaker backbox	137.00	ea	55.00 /ea	7,535		
	001	Device box with conduit stub to ceiling	174.00	ea	165.00 /ea	28,710		
	001	Cabling	30,000.00	lf	2.20 /lf	66,000		
	001	Speech Amplification						
	001	Speech Amplification (per classroom)	52.00	loc	3,800.00 /loc	197,600		
	001	Area of refuge						
	001	Area of refuge	1.00	ls	25.000.00 /ls	25.000		
	001	Av Svstem						
	001	Projectors and AV equipment (provided by others, with FFE)						
	001	AV backbox and conduit stub to ceiling (PH/PL/TVHL)	101.00	ea	165.00 /ea	16,665		
	001	Cafeteria Stage Sound system	1.00	ls	75.000.00 /ls	75.000		
	001	Cafeteria stage sound system (Rough-in)	1 00	ls	25 000 00 /ls	25,000		
	001	Cafeteria Stage/Platform		10	20,000.00 //0	20,000		
	001	Stage/Platform lighting and dimming system	1 00	ls	75.000.00 /ls	75 000		
	001	Stage/Platform lighting and dimming system	1.00	ls	25 000 00 /ls	25,000		
	001	(Rough-in)		10	20,000.00 //0	20,000		
	001	Sound System						
	001	Gymnasium & Cafeteria	1 00	le	30 000 00 /ls	30,000		
	001	Media Center	1.00	le	30,000,000 //s	30,000		
	001	Band Room (spec)	1.00	le		15,000		
	001	Digital signage	1.00	15	13,000.00 //3	15,000		
	001	Bough In for Digital signage	126 000 00	of	0.50 /of	69 000		
	001	Tolophono and Communications Systems	130,000.00	51	0.50 /SI	00,000		
	001	Telephone and Communications Systems	1.00	le	15,000,00 //c	15 000		
	001	Telecomm IDE closet modify and connections	1.00	lo lo		10,000		
	001	1-port device (W/)	1.00 52.00	13		1 509		
	001	1 port dovico	30.00	Ud OC	20.00 /ea	1,000		
	001	a port device	1.00	ea	20.00 /ea	10Z		
	001	2-poir device	103.00	ea	52.00 /ea	5,356		
	001	2-poir device (1001)	12.00	ea	52.00 /ea	024		
	001	4-poir device (1100r)	5.00	ea	120.00 /ea	600		
	001		35.00	ea	52.00 /ea	1,820		
	001	PH (2-port device)	49.00	ea	52.00 /ea	2,548		
	001	PL (2-port device)	49.00	ea	52.00 /ea	2,548		
	001	IVHL (2-port device)	3.00	ea	52.00 /ea	156		



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						otal	
Item		Description	Takeoff Qty		Unit Cost	Amour	۱t
27 2000 004		Data Communications System					
27-2000.001	001		79.00	~~	750.00 /	50 EQ EQ	0
	001	Wire guard	78.00	ea	/ 50.00 /	ea 58,50	0
	001	Cot 6A apple	4.00	ea If	125.00 /		0
	001	Cal. OA Cable	132,000.00	II If	2.30 /	II 303,00	0
	001	Device her with conduit stub to coiling	210.00		25.00 /	n 7,50	0
	001	Cable tray	219.00	са If	70.00 /	ea 50,15	.0 :0
	001		8.00	" 62	250.00 /	n 4,00 ea 2.00	0
	001	Network Switching & VOIP	136 000 00	sf	3.00 /	sf 408.00	0
	001	Data Communications System	100,000.00	31	12 242/2	si 400,00	
		Data Communications System			12.243/8	1,005,05	'
		136,000.00 sf					
		COMMUNICATIONS			12.243/	sf 1,665,03	7
		136.000.00 sf					
28-0000.0	000	ELECTRONIC SAFETY &	SECURITY				
28-3000.000		Electronic Detection & Alarm					
	10	Security Access Control &CCTV					
	10	Security control panel/monitoring	1.00	ls	25,000.00 /	ls 25,00	0
	10	CCTV camera (180)	4.00	ea	3,000.00 /	ea 12,00	0
	10	CCTV camera (180) WP	11.00	ea	3,500.00 /	ea 38,50	0
	10	CCTV camera (PTZ)	4.00	ea	2,500.00 /	ea 10,00	0
	10	CCTV camera	39.00	ea	2,000.00 /	ea 78,00	0
	10	Card reader	18.00	ea	600.00 /	ea 10,80	0
	10	Duress button	5.00	ea	250.00 /	ea 1,25	0
	10	Door contact	39.00	ea	300.00 /	ea 11,70	0
	10	Motion sensor	8.00	ea	300.00 /	ea 2,40	0
	10	REX	18.00	ea	350.00 /	ea 6,30	0
	10	Electric lock (provided by DHC, connection only)	38.00	ea	150.00 /	ea 5,70	0
	10	Electric power transfer	22.00	ea	350.00 /	ea 7,70	0
	10	VMS (Intercom)	2.00	ea	2,500.00 /	ea 5,00	0
	10	VMS (Intercom)	2.00	ea	1,200.00 /	ea 2,40	0
	10	Security wall box 1" sleeve	50.00	ea	200.00 /	ea 10,00	0
	10	Door J-Box	22.00	ea	40.00 /	ea 88	0
	10	Device box	210.00	ea	40.00 /	ea 8,40	0
	10	3/4" EMT	10,000.00	lf	11.50 /	lf 115,00	0
	10	Cabling	20,000.00	lf	2.20 /	lf 44,00	0
	10	Security devices and cabling not depicted at this scope level	136,000.00	sf	1.50 /	sf 204,00	0
	10	Fire Alarm System					
	10	Control panel	1.00	ea	30,000.00 /	ea 30,00	0
	10	Smoke control panel	1.00	ea	5,000.00 /	ea 5,00	0
	10	NAC	1.00	ea	1,500.00 /	ea 1,50	0
	10	Annunciator	2.00	ea	2,000.00 /	ea 4,00	0
	10	Beacon	1.00	ea	225.00 /	ea 22	5

2/8/2024



10 12" Straw Wattle

10 Inlet Protection

Clinton Middle School

tem Description Takeoff Qty Unit Cest Amount 28-300.000 Electronic Detection & Alarm 10 ea 25.00 /ea 2.55 10 Bell 1.00 ea 25.00 /ea 2.55 10 Graphic map 1.00 ea 3.00.00 /ea 1.400 10 Graphic map 1.00 ea 9.500.00 /ea 1.500 10 Initiating device 75.00 ea 165.00 /ea 12.375 10 Audio/sual device 130.00 ea 145.00 /ea 18.500 10 Dust smoke device 130.00 ea 145.00 /ea 1.85.00 10 Dust smoke device 30.00 ea 145.00 /ea 1.05.01 10 Dust and device 30.00 ea 145.00 /ea 1.05.01 10 Babunda 10.00.00 of 1.00.00 1.00.00 1.00.00 10 Babunda 1.00.00 file 1.00.000 1.00.00 1.00.000						Total	
28-3000.00 Electronic Detection & Alarm 225 225.00 /ea 225 10 Bell 1.00 ea 355.00 /ea 225 10 Knox Box 1.00 ea 355.00 /ea 1.400 10 Graphic map 1.00 ea 355.00 /ea 1.600 10 Initialing device 75.00 ea 165.00 /ea 13.000 10 Audiovisual device 130.00 ea 145.00 /ea 145.00 10 Visual device 65.00 ea 125.00 /ea 145.00 10 Visual device 65.00 ea 125.00 /ea 145.00 10 Visual device 310.00 ea 165.00 /ea 145.00 10 Persones alarm indicator 310.00 ea 15.00 /ea 143.750 10 Persones alarm indicator 136.000.00 of 1.50 /ef 4.950 10 Persones alarm indicator 136.000.00 of 1.50 /ef 4.960 10	Item		Description	Takeoff Qty		Unit Cost	Amount
10 Bell 100 ea 225.00 /ea 225.0 10 Knox Box 4.00 ea 35.00 /ea 1.400 10 Graphic map 1.00 ea 1.000.00 /ea 1.000.00 10 Ratio master box 75.00 ea 9.500.00 /ea 9.500 10 Initiating device 75.00 ea 165.00 /ea 13.300 10 Audio/visual device 65.00 ea 125.00 /ea 18.550 10 Medules 30.00 ea 116.00 /ea 10.333 10 Medules 30.00 ea 116.00 /ea 10.333 10 Medules 30.00 ea 116.00 /ea 10.333 10 Medules 310.00 ea 16.50 /ea 10.333 10 Pacterizes and cabing on depicted at this scope 136.000.00 sf 1.50 /ef 20.4000 10 FA devices and cabing on depicted at this scope 136.000.00 sf 1.00.000 100.0000	28-3000.000		Electronic Detection & Alarm				
10 Knox Box 4.00 ea 350.00 /ea 1.400 10 Graphic map 1.00 ea 1.000.00 /ea 9.500 10 Natido master box 1.00 ea 9.500.00 /ea 9.500 10 Initiating device 75.00 ea 165.00 /ea 12.375 10 Duct smoke detector with remote test switch 6.00 ea 155.00 /ea 3.300 10 Audio/Visual device 65.00 ea 16.500 /ea 18.550 10 Visual device 65.00 ea 16.500 /ea 14.350 10 Wouldes 30.00 ea 115.00 /ea 14.3750 10 Device box 310.00 ea 15.00 /ea 14.3750 10 Site Prot 12.500.00 if 1.50 /ef 220.00 10 BADADAS System 1.00 is 100.000.00 /s 100.000 10 BADADAS System 1.00 is 100.000.00 /s 100.000 10 In-Building Cellular Amplification System 1.00 is 10.056/sf 1.367.645		10	Bell	1.00	ea	225.00 /ea	225
10 Graphic map 1.00 ea 9,500.00 /ea 100 10 Radio master box 1.00 ea 9,500.00 /ea 12,375 10 Duct smoke detector with remote test switch 6.00 ea 550.00 /ea 13,2375 10 Visual device 130.00 ea 155.00 /ea 13,850 10 Visual device 65.00 ea 125.00 /ea 8,852 10 Remote alarm indicator 9,00 ea 115.00 /ea 11,520 10 Bodyne box 31.000 ea 11,500 /ea 11,520 10 Bodyne box 310.00 ea 15.00 /ea 14.500 10 Bodyne box 316.00.00 of 11.50 /f 14.50 /f 14.5		10	Knox Box	4.00	ea	350.00 /ea	1,400
10 Radio master box 1.00 ea 9,500 0/ea 9,500 10 Initiating device 75.00 ea 15.50 /ea 13.300 10 Duct smoke delector with remote test switch 6.00 ea 145.50 /ea 3.300 10 Visual device 65.00 ea 145.50 /ea 8.125 10 Remote alarm indicator 9.00 ea 115.00 /ea 8.125 10 Remote alarm indicator 3.000 ea 115.00 /ea 4.950 10 Device box 310.00 ea 38.00 /ea 14.3750 10 FA cabling 12,500.00 if 1.50 /if 143,750 10 FA devices and cabling not depicted at this scope 136,000.00 sf 100,000 is 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000.00 //s 100,000 10 In-Building Cellular Amplification System 1.00 is 2.50 /sf 66,000 10 Electronic Detection & Alarm		10	Graphic map	1.00	ea	1,000.00 /ea	1,000
10 Initiating device 75.00 ea 155.00 /ea 12,375 10 Duct smoke detector with remote test switch 6.00 ea 55.00 /ea 13,850 10 Visual device 65.00 ea 13,850 /ea 18,850 10 Visual device 65.00 ea 125.00 /ea 16,852 10 Remote alarm indicator 9.00 ea 125.00 /ea 1.035 10 Device box 31.000 ea 165.00 /ea 1.45.01 11 11.50 if at 14.50 if at 14.50 if at 36.00 /ea 14.50 13 347 EMT 12.500.00 if 14.35.01 if 34.600.00 if 14.35.01 if 34.600.00 if 14.35.01 if 34.600.00 if 15.01 /sf 124.000 if 100,000 if 15.00 /sf 124.000 if 0.00.00 if 0.00.00 if 0.00.00 if 0.00.00 if 0.50 /sf i		10	Radio master box	1.00	ea	9,500.00 /ea	9,500
10 Duck smoke detector with remote test switch 6.00 ea 515.00 /ea 3.300 10 Vauid device 65.00 ea 1125.00 /ea 8.125 10 Remote alam indicator 9.00 ea 115.00 /ea 8.125 10 Remote alam indicator 9.00 ea 115.00 /ea 1.035 10 Modules 30.00 ea 165.00 /ea 4.950 10 Device box 310.00 ea 165.00 /ea 4.950 10 Device box 310.00 /ea 38.00 /ea 11.780 10 FA cabiling 18.00.00 of 122.01 /ft 39.600 143.6500 10 FA devices and cabiling not depicted at this scope 136.00.00 of 150.000 /ft 30.000 100.000 10 In-Building Cellular Amplification System 1.00 is 100.000.000 //s 100.000 10 In-Building Cellular Amplification System 1.00 is 0.50 /sf 68.000 10 In-Building Cellular Amplification System 1.00 is 257.980.21 //is 257.980.21 //is 10 Site Preparation <td></td> <td>10</td> <td>Initiating device</td> <td>75.00</td> <td>ea</td> <td>165.00 /ea</td> <td>12,375</td>		10	Initiating device	75.00	ea	165.00 /ea	12,375
10 AudioNvisual device 130,00 ea 142,00 /ea 18,25 10 Visual device 65,00 ea 115,00 /ea 1,05 10 Modules 30,00 ea 115,00 /ea 1,05 10 Device box 310,00 ea 165,00 /ea 4,950 10 Safe ENT 12,500,000 if 11,50 /if 143,750 10 FA devices and cabing not depicted at this scope 136,000,00 sf 1,50 /sf 204,000 10 BA/DAS System 1,00 is 100,000,000 /is 100,000 10 BA/DAS System 1,00 is 100,000,000 /is 100,000 10 In-Building Cellular Amplification System 1,00 is 100,000,00 /is 100,000 10 In-Building Cellular Amplification System 1,00 is 100,000,00 /is 100,000 10 ELECTRONIC SAFETY & SECURITY 10.056/sf 1,367,645 136,000.00 sf 136,000,00 sf 257,980,21 /is 257,980 10 Site Pereparation 100 is		10	Duct smoke detector with remote test switch	6.00	ea	550.00 /ea	3,300
10 Visual device 0.00 ea 115.00 /ea 1.035 10 Remote alarm indicator 9.00 ea 115.00 /ea 1.035 10 Modules 30.00 ea 165.00 /ea 4.950 10 Device box 310.00 ea 38.00 /ea 11.780 10 34" ENT 12.50.00 if 11.50 /if 143.760 10 FA devices and cabling not depicted at this scope 136.000.00 sf 1.50 /sf 204.000 10 BDA/DAS system 1.00 is 100,000.000 /is 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000.000 /is 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000.000 /is 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000.000 /is 100,000 10 ELECTRONIC SAFETY & SECURITY 10.056/sf 1,367,645 136,000.00 sf 31-1000.000 sf 136,000.00 sf 136,000.01 is 30,705 /is 31,306		10	Audio/visual device	130.00	ea	145.00 /ea	18,850
10 Newhole alarm indicator 9.00 ea 115.00 /ea 1.0.05 10 Device box 310.00 ea 185.00 /ea 145.00 /ea 10 Device box 310.00 rea 38.00 /ea 145.00 /ea 147.80 10 FA devices and cabling not depicted at this scope 136.000.00 if 1.50 /sf 204.000 10 FA devices and cabling not depicted at this scope 136.000.00 sf 1.50 /sf 204.000 10 BDA/DAS system 1.00 is 100.000.000 //s 100.000 10 In-Building Cellular Amplification System 1.00 is 100.000.000 //s 100.000 10 In-Building Cellular Amplification System 1.00 is 0.50 /sf 66.000 10 In-Building Cellular Amplification System 1.00 is 0.50 /sf 1.367,645 136,000.00 sf 136,000.00 sf 1.367,645 1.367,645 136,000.00 sf		10	Visual device	65.00	ea	125.00 /ea	8,125
10 Modules 30:00 ea 13:00 ea 10:00		10	Remote alarm indicator	9.00	ea	115.00 /ea	1,035
10 Device box 31000 ea 34.00 #a 11,760 10 FA cabling 12,500.00 if 11,760 if 143,750 10 FA cabling 18,000.00 if 22.0 //i 39,600 10 FA cabling 150 /sf 204,000 //sec 10 BDA/DAS system 1.00 is 100,000.000 //s 100,000 10 n-Building Cellular Amplification System 1.00 is 100,000.000 //s 100,000 10 n-Building Cellular Amplification System 1.00 is 100,000.000 //s 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000.000 //s 100,000 10 Faironmental Sensors - Air Quality (spec) 136,000.00 sf 1.367,645 136,000.00 sf 136,000.00 sf 1.367,645 136,000.00 sf 136,000.00 sf 1.367,645 131100.100 1.00 is 257,980.21 //s 257,980 10 GENERAL CONDITIONS 1.00 is 30,		10	Modules	30.00	ea	165.00 /ea	4,950
10 34 EM1 12,30,000 1 12,30,000 1 12,30,000 1 12,30,000 1 12,30,000 1 13,700 1 39,600 10 FA devices and cabiling not depicted at this scope 136,000.00 sf 1.50,/sf 204,000 10 BDA/DAS System 1.00 is 100,000.000 /ls 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000.000 /ls 100,000 10 Air Quality Sensors 1 100,000 sf 0.50 /sf 68,000 10 Environmental Sensors - Air Quality (spec) 136,000.00 sf 0.50 /sf 1,367,645 136,000.00 sf 10.056/sf 1,367,645 136,000.00 sf 31-100.000 sf 100,056/sf 1,367,645 136,000.00 sf 31,370 31-100.000 sf 100,056/sf 1,367,645 136,000.00 sf 31,370 31-100.000 sf 100 is 257,980.21 /ls 257,980 1/ls 257,980 31-50 sis 100 is		10		310.00	ea	38.00 /ea	11,780
10 FA dealing 130,000,00 i 2.20 /i 39,000 10 FA dealing 136,000,00 st 1.50 /sf 204,000 10 BDA/DAS System 1.00 is 100,000,000 /ls 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000,000 /ls 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000,000 /ls 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000,000 /ls 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000,000 /ls 100,000 10 In-Building Cellular Amplification System 1.00 is 10,056/sf 1,367,645 136,000.00 sf 136,000.00 sf 136,000.00 sf 31-1100.100 Site Preparation 1.00 is 257,980.21 /ls 257,980.21 /ls 257,980.21 /ls 31-1100.100 Site Preparation 1.00 is 257,980.21 /ls 257,980.21 /ls 257,980.21 /ls 257,980.21 /ls 31,370 31,370		10	3/4 EIVII	12,500.00	lî If	11.50 /II 2.20 //f	143,750
10 FX devices and cabling not depicted at this scope 135,000.00 si 1.30 rsi 204,000 10 BDA/DAS system 1.00 is 100,000.000 /is 100,000 10 BDA/DAS system 1.00 is 100,000.000 /is 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000.000 /is 100,000 10 Ard Cuality Sensors 136,000.00 sf 0.50 /sf 68,000 10 Electronic Detection & Alarm 10.056/sf 1,367,645 136,000.00 sf 136,000.00 sf 10.056/sf 1,367,645 136,000.00 sf 100 is 257,980.21 /is 257,980 10 Site Preparation 100 is 257,980.21 /is 257,980 10 Site Preparation 100 is 30,707 /hrs 31,370 10 Site Preparation 100 is 30,707 /hrs 31,370 10 Site Preparation 100 is 30,707 /hrs 31,370 10 Site Preparation 100 is 30,7		10	FA cabling	18,000.00	11 f	2.20 /11	39,600
In DubDAS system 1.00 Is 100,000.000 /ls 100,000 10 In-Building Cellular Amplification System 1.00 Is 100,000.000 /ls 100,000 10 In-Building Cellular Amplification System 1.00 Is 100,000.000 /ls 100,000 10 Air Quality Sensors 1.00 Is 100,000.000 /ls 100,000 10 Air Quality Sensors 1.00 Is 100,000.000 /ls 100,000 10 Electronic Detection & Alarm 136,000.00 sf 1.367,645 136,000.00 sf 136,000.00 sf 1.367,645 136,000.00 sf 136,000.00 sf 1.367,645 136,000.00 sf 1.00 Is 257,980.21 /ls 257,980 10 Site Preparation 1.00 Is 257,980.21 /ls 257,980 10 Site Demolition 1.00 Is 257,980.21 /ls 257,980 10 Site Preparation 1.00 Is 30,707 /hrs 31,370 1		10	PA devices and cabling not depicted at this scope level	136,000.00	ST	1.50 /st	204,000
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31-0000.000 EARTHWORK 31-1100.100 Site Preparation 10 Site Preparation 10 Site Demolition 10 Site Demolition 10 Site Demolition 10 Site Demolition 10 Supervision 10 Mobilization 10 Mobilization 10 Construction Stakeout 10 Supervision 10 Construction Stakeout 10 Saw Cutting 10 Subcontractor OH&P 10 Subcontractor OH&P 10 SWPPP Plan & Monitoring 10 SWPPP Plan & Monitoring 10 Stone Construction Entrance 10 Silf Fence - Install 11 Silf Fence - Install 12:00 mmth 13:17:00 If 14:00:00 If 15:00 Stone Construction Entrance 10:00 Is 10:00 Stone Construction Entrance 10:00 If <td></td> <td></td> <td>136,000.00 sf</td> <td></td> <td></td> <td></td> <td></td>			136,000.00 sf				
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10 Mobilization 13.00 Invs 1,595.004 /invs 25,940 10 Construction Stakeout 1.00 Is 30,705.18 /ls 30,705 10 Saw Cutting 500.00 If 6.535 /lf 3,268 10 Subcontractor OH&P 1.00 Is 498,063.18 /ls 498,063 10 EROSION CONTROL 10 Is 13,896.25 /ls 13,896 10 Stone Construction Entrance 120.00 sy 62.052 /sy 7,446 10 Silt Fence - Install 4,400.00 If 4.23,876 /mnth 5,087 10 Erosion Controls - Maintain 12.00 mnth 423.876 /mnth 5,087 10 Erosion Controls - Remove 4.400.00 If 2.064 //if 0.021		10	Mobilization	240.00	mve	1 596 004 /mvs	23 040
10 Construction Stakebult 1.00 is 30,703.18 is 30,703 10 Saw Cutting 500.00 lf 6.535 /lf 3,268 10 Subcontractor OH&P 1.00 ls 498,063.18 /ls 498,063 10 EROSION CONTROL 10 SWPPP Plan & Monitoring 1.00 ls 13,896.25 /ls 13,896 10 Stone Construction Entrance 120.00 sy 62.052 /sy 7,446 10 Silt Fence - Install 4,400.00 lf 4.499 /lf 19,796 10 Erosion Controls - Maintain 12.00 mnth 423.876 /mnth 5,087 10 Erosion Controls - Remove 4.400.00 lf 2.064 9.091		10	Construction Stakeout	10.00	livs	1,590.004 /IIIVS	23,940
10 Saw Cutting 500.00 ii 6.535 /ii 5,266 10 Subcontractor OH&P 1.00 Is 498,063.18 /ls 498,063 10 EROSION CONTROL 1.00 Is 13,896.25 /ls 13,896 10 Stone Construction Entrance 120.00 sy 62.052 /sy 7,446 10 Silt Fence - Install 4,400.00 If 4.499 /lf 19,796 10 Erosion Controls - Maintain 12.00 mnth 423.876 /mnth 5,087 10 Erosion Controls - Remove 4.400.00 If 2.064 /lf 9.081		10	Constituction Stakeout	500.00	15 1f	30,703.10 /IS	30,703
10 Subcontraction On Ref 1.00 is 498,063.16 498,063 10 EROSION CONTROL 10 SWPPP Plan & Monitoring 1.00 Is 13,896.25 /Is 13,896 10 Stone Construction Entrance 120.00 sy 62.052 /sy 7,446 10 Silt Fence - Install 4,400.00 If 4.499 /If 19,796 10 Erosion Controls - Maintain 12.00 mnth 423.876 /mnth 5,087 10 Erosion Controls - Remove 4.400.00 If 2.064 9.091		10	Saw Gulling Subcontractor OH&D		II Ie		3,∠08 400 062
10 EROSION CONTROL 10 SWPPP Plan & Monitoring 10 Stone Construction Entrance 10 Stone Construction Entrance 10 Silt Fence - Install 10 Erosion Controls - Maintain 10 Erosion Controls - Maintain 10 Erosion Controls - Remove 10 Erosion Controls - Remove		10		1.00	15	490,003.10 /IS	498,063
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10 Store Construction Entrance 120.00 Sy 62.052 /Sy 7,446 10 Silt Fence - Install 4,400.00 If 4.499 /If 19,796 10 Erosion Controls - Maintain 12.00 mnth 423.876 /mnth 5,087 10 Erosion Controls - Remove 4.400.00 If 2.064 //f 0.021		10	Stope Construction Entrance	1.00	15	13,090.23 /15 62.052 /ou	13,090
10 Sill Fence - Install 4,400.00 If 4.499 /If 19,796 10 Erosion Controls - Maintain 12.00 mnth 423.876 /mnth 5,087 10 Erosion Controls - Remove 4.400.00 If 2.064 //f 0.021		10		120.00	Sy	02.U02/Sy	7,446
10 Erosion Controls - Iviaintain 12.00 mnth 423.876 /mnth 5,087		10	Sill Fende - Ilistali Frazian Cantrala Maintain	4,400.00	11	4.499 /II 400.070 /mm/th	19,796
		10	Erosion Controls - Remove	12.00	iiiiiiii If	423.070 /IIIIIIN 2 064 /If	0,087

Fontaine Bros., Inc. ~ 510 Cottage Street Springfield, MA 01104 ~ T:413.781.2020 ~ www.fontainebros.com

4,400.00 lf

35.00 ea

39,350

5,755

8.943 /lf

164.416 /ea



					Total	
Item		Description	Takeoff Qty		Unit Cost	Amount
31-1100.100		Site Preparation				
	10	BioRetention Ponds	558.00	су	64.666 /cy	36,083
	10	Temporary Seeding	85,685.00	sf	0.179 /sf	15,326
		Site Preparation			7.332/sf	997,145
		136,000.00 sf				
31-2100.000		Radon Mitigation				
	001	Radon Mitigation System	1.00	ls	345,941.81 /ls	345,942
		Radon Mitigation			2 544/sf	345 942
					2.044/01	040,042
		136,000.00 sf				
31-2323.260		Excavation				
	10	Cut to Fill	36,000.00	су	8.654 /cy	311,551
	10	Fill from Cut	36,000.00	cy	3.247 /cy	116,893
	10	Compaction - Cut & Level On Site	36,000.00	cy	1.885 /cy	67,858
	10	Fine Grade / Shape Ponds	10,100.00	sf	1.390 /sf	14,035
	10	Fine Grade Athletic Field	8,110.00	sv	1.789 /sy	14,506
	10	Fine Grade - Swales	500.00	sf	0.908 /sf	454
	10	Gravel Base Below Paving	17,956.00	sv	23.197 /sy	416,527
	10	Gravel Base Below Basketball Court	657.00	sv	23.197 /sy	15,240
	10	Gravel Base Below Sidewalk	18.097.00	sf	3.426 /sf	61,999
	10	E&B Fountation/Footings	2.700.00	lf	44.399 /lf	119.878
	10	E&B Under Slab Plumbing	2.000.00	lf	36.089 /lf	72.178
	10	12" Crushed Gravel Under Slab	87.500.00	sf	2.174 /sf	190.213
	10	Grade Building	87,500,00	sf	0.605/sf	52 971
	10	Phasing - Allowance	1 00	ls.	750 000 00 /ls	750,000
	10	Premium for Geothermal System (Wells and	1.00	ls.	2 000 000 000 //s	2 000 000
	10	Sitework Support)	1.00	10	2,000,000.000 //3	2,000,000
	10	Fill from Cut	10 000 00	CV	45.00 /cv	450 000
	10	Soil Handling	6 500 00	CV	40.00 /cy	260,000
	10	Excavation	0,000.00	Cy	36.135/sf	4,914,303
		136,000.00 sf				
		EARTHWORK			46.010/sf	6,257,390
		136,000.00 sf				
<u>32-0000.</u>	<u>000</u>	EXTERIOR IMPROVEME	<u>NTS</u>			
32-1216.120		Asphalt Paving - SY				

 Asphalt Paving - SY
 17,956.00
 sy
 1.651 /sy
 29,646

 25
 Fine Grading - Driveway/Parking
 17,956.00
 sy
 9.177 /sy
 6,029

 25
 Grade Basketball Court
 657.00
 sy
 1.321 /sy
 23,903

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				Total		
					Iotai	
ltem		Description	Takeoff Qty		Unit Cost	Amount
32-1216.120		Asphalt Paving - SY				
	25	Asphalt Subcontractor	18,613.00	sy	40.217 /sy	748,550
		Asphalt Paving - SY			5.942/sf	808,129
		136,000.00 sf				
32-1313.100		Site Concrete				
	6	Site Concrete, Flatwork - Ramps & Sidewall	ks 43,025.00	sf	15.00 /sf	645,375
	6	Site Concrete, Walls & Footings, Forming	5,097.00	sfca	32.00 /sfca	163,104
	6	Site Concrete, Walls & Footings	136.00	су	110.00 /cy	14,960
	6	Site Concrete, Flatwork	927.00	су	110.00 /cy	101,970
	6	Site Concrete, Re-Bar	15.00	ton	3,500.00_/ton	52,500
		Site Concrete			7.191/sf	977,909
		136,000.00 sf				
32-1400.100		Site Pavers				
	30	Unit Pavers	8.325.00	sf	30.00 /sf	249,750
	30	Unit Paver Prep	8.325.00	sf	20.00 /sf	166,500
		Site Pavers	-,		3 061/sf	416 250
		one i avers			0.001/31	410,200
		136,000.00 sf				
32-1640.120		Curbs- Granite				
	2	Vertical Granite Curb	8,755.00	lf	78.218 /lf	684,798
	2	Landscape curbing allowance	1.00	ls	48,155.27 /ls	48,155
		Curbs- Granite			5.389/sf	732,953
		136,000.00 sf				
32-1723.100		Pavement Marking				
	6	Line Painting	1.00	ls	27,517.31 /ls	27,517
		Pavement Marking			0.202/sf	27,517
		136,000.00 sf				
32-1800.000		Exterior Athletic Equipment				
	001	Exterior Score Board Allowance - Multi Field	1.00	ls	50,000.00_/ls	50,000
		Exterior Athletic Equipment			0.368/sf	50,000
		136,000.00 sf				
32-1823.110		Athletic Surfacing / Turf Field				
	20	I urt Field - NIC See Alternate	1 00	le		227 000
	20	Tubber Flay Surracing @ Flayground	1.00	15	221,000.00 /15	227,000
			Page 32			2/8/202



		Description	Takeoff Qty		Total		
ltem					Unit Cost	Amount	
		Athletic Surfacing / Turf Field			1.669/sf	227,000	
		136,000.00 sf					
32-3100.001		Site Furnishings					
	001	Traffic Signs	40.00	ea	225.00 /ea	9,000	
	001	Entry Signs, Allow	2.00	ea	15,000.00 /ea	30,000	
	001	Basket Ball Hoops	6.00	ea	8,500.00 /ea	51,000	
	001	Bollards - utility	15.00	ea	2,063.797 /ea	30,957	
	001	Bollards - stainless steel	6.00	ea	4,127.597 /ea	24,766	
	001	Trash receptacles	5.00	ea	3,500.00 /ea	17,500	
	001	Flagpole - 40' Ht.	1.00	ea	15,000.00 /ea	15,000	
	001	Bike racks	25.00	ea	350.00 /ea	8,750	
	001	Shade Structure Allowance	3.00	ea	10,000.00 /ea	30,000	
	001	Bioretention Boardwalk, Allowance	1.00	ea	150,000.00 /ea	150,000	
	001	Play Ground Equipment - Allowance	1.00	ls	400,000.000 /ls	400,000	
		Site Furnishings			5.640/sf	766,973	
		136,000.00 sf					
32-3113.060		Fencing					
	20	4' Ht - Chain link fence at playground	400.00	lf	75.00 /lf	30,000	
	20	4' Ht - Chain link fence at field perimeter	1,200.00	lf	60.00 /lf	72,000	
	20	4' Ht - Chain link fence at outdoor classroom	320.00	lf	75.00 /lf	24,000	
	20	8' Ht - Mechanical screen at generator	155.00	lf	125.00 /lf	19,375	
	20	20' W - Vehicular Gate at Back Exit	1.00	ls	6,000.00 /ls	6,000	
	20	Pedestrian Guardrail @ Loading Dock, 2 Line	1.00	ls	21,000.00 /ls	21,000	
	20	Replace Existing Fence - 50% Allowance	1.00	ls	120,000.00 /ls	120,000	
		Fencing			2.150/sf	292,375	
		136,000.00 sf					
32-3200.110		Site Landscaped Walls					
	30	Landscaping Misc. Seat Walls & Raised Planters	1.00	ls	275,000.00 /ls	275,000	
		She Landscaped wans			2.022/SI	275,000	
		136,000.00 sf					
32-8000.100		Irrigation Systems					
	2	Irrigation Systems - Field	1.00	ls	125,000.00 /ls	125,000	
	2	Irrigation Systems - Temp irrigation, Planting Beds / Lawns	77,000.00	sf	1.30 /sf	100,100	
	2	Irrigation Systems - Drip Strips at Plantings	1.00	ls	50,000.00 /ls	50,000	



				Total		
Item	Description	Takeoff Qty		Unit Cost	Amount	
	Irrigation Systems			2.023/sf	275,100	
	136,000.00 sf					
32-9113.110	Mulching					
2	5 Mulching	66,200.00	sf	1.25 /sf	82,750	
	Mulching			0.608/sf	82,750	
	136,000.00 sf					
32-9113.120	Topsoil / Soil Prep					
1	0 Strip & Stockpile Topsoil	20,000.00	су	11.005 /cy	220,091	
1	0 Screen Topsoil	18,500.00	су	17.894 /cy	331,031	
1	0 Export Tailings	4,000.00	су	11.929 /cy	47,716	
1	0 Ammend and Place Topsoil	12,000.00	су	25.00 /cy	300,000	
1	U Bioretention Solls / Rain Garden	10,000.00	st	11.929 /sf	119,290	
1	D Truck Surplus Soils (Assumed Clean)	5,500.00	cy	25.00 /cy	137,500	
1	D Inuck Surplus Solis, Premium for Arsenic, RCS2	0,250.00 2 377 00		52.00 /tons	429,000	
1	0 Replace Topsoil - On Site	2,377.00	CV	13 73 /cy	32 636	
1	0 Disposal of Top Soil RCS2	6.000.00	cv	60.00 /cy	360.000	
	Topsoil / Soil Prep	-,	-)	15.591/sf	2,120,335	
	136,000.00 sf					
32-9219.110	Lawns & Grasses					
	5 Lawn and Planting Maintenance	1.00	ls	15,000.00 /ls	15,000	
	5 High use lawn seed / SOD at Field	190,300.00	sf	1.20 /sf	228,360	
	5 Gravel Maintenance Edging (Including Steel	3,200.00	sf	25.00 /sf	80,000	
	5 Finegrade & Sod - Fields	77,000.00	sf	1.85 /sf	142,450	
	Lawns & Grasses			3.425/sf	465,810	
	136,000.00 sf					
32-9343.110	Trees and Plantings					
12	0 Shade Trees	190.00	ea	2,000.00 /ea	380,000	
12	0 Flowering Trees	8.00	ea	900.00 /ea	7,200	
12	0 Coniferous Trees	20.00	ea	1,000.00 /ea	20,000	
12	0 Shrubs	1,225.00	ea	78.00 /ea	95,550	
12	0 Perennials	14,000.00	ea	18.00 /ea	252,000	
12	U Landscaping VE Goal	-1.00	IS	226,000.00 /ls	(226,000)	
	Trees and Plantings			3.888/sf	528,750	

136,000.00 sf


				Total		
ltem	Description	Takeoff Qtv		Unit Cost	Amount	
	EXTERIOR IMPROVEMENTS			59.168/sf	8,046,851	
	136,000.00 sf					
<u>33-0000.000</u>	<u>UTILITIES</u>					
33-1002.101	Water Supply System					
c 4	4" DIP Water	90 00	lf	110 826 /lf	9 974	
c 4	6" DIP Water	160.00	lf	99.681 /lf	15.949	
c 4	8" DIP Water	2,415.00	lf	53.948 /lf	130,284	
c 4	4" Valves & Fittings	1.00	ls	1,675.12 /ls	1,675	
c 4	6" Valves & Fittings	1.00	ls	31,471.54 /ls	31,472	
c 4	8" Valves & Fittings	1.00	ls	19,167.170 /ls	19,167	
c 4	Water Main Testing - Air	2,656.00	lf	2.298 /lf	6,103	
c 4	Water Main Flushing	2,656.00	lf	2.064 /lf	5,481	
c 4	Water Main Clorination	2,656.00	lf	2.064 /lf	5,481	
	Water Supply System			1.659/sf	225,586	
	136,000.00 sf					
22 1004 001	Sower Bine and Transhing					
03-1004.901	Sewer Pipe and Trenching	52.00	If	65 254 /lf	2 200	
0		52.00	ll If	05.354 /II 01.501 //f	3,390 50 125	
0	0 SDR-33 Connect to Existing Sower Manhola	030.00	11	91.591/11	20,433 18 043	
0	Sewer Manhole	2.00	6a	3 204 39 /ea	0,043	
8	Grease Tran	1.00	ea	10 347 89 /ea	10 348	
8	Set Frame & Cover	6.00	ea	1 622 145 /ea	9 733	
8	Concrete Invert	3.00	ea	890 183 /ea	2 671	
8	Sewer Main Testing - Air	640.00	lf	5 847 /lf	3 742	
8	Sewer Main Testing - Mandrel	640.00	lf	3 894 /lf	2 492	
8	Manhole Testing - Air	3.00	ea	316.447 /ea	949	
	Sewer Pipe and Trenching			0.878/sf	119,425	
	136,000.00 sf					
33-4102 202	Drainage Pining and Trenching					
12	12" HDPF	2 215 00	lf	71 820 /lf	159 082	
12	18" HDPE	1 107 00	 If	59 781 /lf	66 178	
12	24" HDPE Storm Sewer	1.107.00	lf	96.407 /lf	106.722	
12	Field Underdrain	960.00	lf	34.974 /lf	33.576	
12	Recharge System Chambers	0.00	ea			
12	4' Diameter Catch Basin	33.00	ea	4,113.837 /ea	135,757	
12	Drain Basin - Nyoplast	2.00	ea	4,877.17 /ea	9,754	
12	4' Diameter Drain Manholes	28.00	ea	3,769.870 /ea	105,556	
12	Water Quality Unit	3.00	ea	30,358.463 /ea	91,075	
12	Set Frame & Grate / Cover	61.00	ea	1,688.187 /ea	102,979	
		Page 35			2/8/202	

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Fontaine Bros., Inc. ~ 510 Cottage Street Springfield, MA 01104 ~ T:413.781.2020 ~ www.fontainebros.com



					Total		
Item		Description	Takeoff Qty		Unit Cost	Amount	
33-4102.202		Drainage Piping and Trenching					
	12	Brick Invert	28.00	ea	756.726 /ea	21,188	
	12	Rip-Rap / Stone Swale	200.00	sy	61.336 /sy	12,267	
		Drainage Piping and Trenching		-	6.207/sf	844,135	
		136,000.00 sf					
33-7000 000		Site Flectrical					
00-7000.000	001	Electrical Site Distribution - Electrical Contractor					
	001	Utility mounted transformer meter	1 00	ea	850.00 /ea	850	
	001	Connections at manhole (electrical)	1.00	ea	10.000.00 /ea	10.000	
	001	Manhole	2.00	ea	12,500.00 /ea	25,000	
	001	Primary service duct bank 2-4" conduits (concrete encased)	840.00	lf	135.00 /lf	113,400	
	001	Secondary service duct bank 4000A feed (concrete encased)	130.00	lf	2,435.00 /lf	316,550	
	001	Generator service duct bank 1200A & 100A feed	130.00	lf	695.00 /lf	90,350	
	001	Telecommunications service duct bank 4-4"	880.00	lf	185.00 /lf	162,800	
	001	TC handhole	6.00	ea	1 500 00 /ea	9 000	
	001	Transformer pad and grounding	1 00	ls	3 500 00 /ls	3,500	
	001	Generator pad	1.00	ls	3 000 00 /ls	3 000	
	001	Site Lighting	1.00	10	0,000.00 //0	0,000	
	001	Type ZSL2	28.00	ea	2.500.00 /ea	70.000	
	001	Type ZSL4	2.00	ls	3,200.00 /ls	6,400	
	001	Type ZSL4FT	10.00	ls	3.200.00 /ls	32,000	
	001	Circuitry	4,800.00	ea	18.00 /ea	86,400	
	001	Pole base and grounding	40.00	ea	650.00 /ea	26,000	
	001	EV Stations					
	001	EV Stations and circuitry	7.00	loc	15,000.00 /loc	105,000	
	001	Site Demolition					
	001	Site Demolition and make safe	1.00	ls	10,000.00 /ls	10,000	
	001	Electrical Site Lighting - Excavation - Site					
		Contractor Scope Below:			= 1 000 %		
	001	UG Electric Duct Bank 2-2.5"	730.00	lf	71.339 /lf	52,077	
	001	Site Lighting	3,000.00	It	28.797 /lt	86,391	
	001	Light Pole Bases	30.00	ea	<u> </u>	54,814	
		Site Electrical			9.291/sf	1,263,532	
		136,000.00 sf					

UTILITIES

136,000.00 sf

2,452,679

18.034/sf



Estimate Totals

Description	Amount	Totals	Rate
Direct Cost	84.048.967	84.048.967	
		,,	
Design Contingency Escalation	8,404,897 5,042,938		10.000 % 6.000 %
Construction Contingency	1,680,979		2.000 %
Subtotal	15,128,814	99,177,781	
Sub Default Insurance	1,239,722		1.250 %
Project Requirements	4,425,600		
GCs & GRs (Price Proposal) Preconstruction Fee (Price Proposal)	7,169,858		
	12,835,180	112,012,961	
		112,012,961	
General Building Permit - Waived			
Subtotal		112,012,961	
CM Fee _	2,285,979		2.000 %
Subtotal	2,285,979	114,298,940	
Project GSF 136000			
Total		114,298,940	



Town of Clinton Clinton Middle School OPM - Dore + Whittier

Project name	Clinton Middle School 100 W Boylston St. Clinton MA 01510
Architect	Lamoureux Pagano Associates
Document	SD
Estimator	Fontaine Bros.
Job size	136000 sf



			Total	
Description		Quantity	Unit Cost	Amount
4		SUBSTRUCTURE		
<u>.</u>				
A10 A1010 Standard Foundations A1030 Slab on Grade A10 FOUNDATIONS	FOUNDATIONS	136,000.00 sf 136,000.00 sf	21.099/sf 9.586/sf 30.685/sf	2,869,461 1,303,725 4,173,186
136,000.00 sf				
7,164.145 Labor hours				
A SUBSTRUCTURE			30.685/sf	4,173,186
136,000.00 sf				
7,164.145 Labor hours				
<u>B</u>		<u>SHELL</u>		
810	SUPERSTRUCTURE			
B1010 Floor Construction		136,000.00 sf	28.741/sf	3,908,735
B1020 Roof Construction B10 SUPERSTRUCTURE		136,000.00 st	27.209/st 55.950/sf	7.609.135
136,000.00 sf				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
1,719.395 Labor hours				
B20	EXTERIOR VERTICAL ENCLOSU	RES		
B2010 Exterior Walls		136,000.00 sf	46.659/sf	6,345,675
B2020 Exterior Windows		136,000.00 sf	13.316/sf	1,810,945
B2050 EXTERIOR VERTICAL ENCLOSURES		130,000.00 Si	61.496/sf	8,363,470
136,000.00 sf				
B30	EXTERIOR HORIZONTAL ENCLO	SURES	00.000/st	2 000 551
B3010 Roof Coverings B30 EXTERIOR HORIZONTAL ENCLOSURES		136,000.00 st	28.666/sf	3,898,551
136,000.00 sf				
4.875 Labor hours				
B SHELL			146.111/sf	19,871,156
136,000.00 sf				
1,724.270 Labor hours				
<u>c</u>		INTERIORS		
G10	INTERIOR CONSTRUCTION			
C1010 Interior Partitions		136,000.00 sf	31.588/sf	4,295,912
C1020 Interior Doors C1030 Eittings		136,000.00 sf	10.054/sf	1,367,360
C10 INTERIOR CONSTRUCTION		130,000.00 31	51.858/sf	7,052,681
136,000.00 sf				
C20	STAIRS			
C2010 Stair Construction		136,000.00 sf	2.188/sf	297,500
C2020 Stair Finishes		136,000.00 sf	0.467/sf	63,500
OZU UTAINO			2.004/ST	301,000
136,000.00 sf				
C30	INTERIOR FINISHES	400.000 -4	40.000-4	0.044.704
C3020 Floor Finishes		136,000.00 sf	10.203/st 11.046/sf	2,211,784 1,502,248



Clinton	Middle	School
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			Tota	ıl
Description		Quantity	Unit Cost	Amount
C3030 Ceiling Finishes		136,000.00 sf	10.194/sf	1,386,423
C30 INTERIOR FINISHES			37.503/sf	5,100,455
136,000.00 sf				
60.00 Labor hours				
C INTERIORS			92.016/sf	12,514,136
136,000.00 sf				
60.00 Labor hours				
D		SERVICES		
<u>-</u>				_
D10 D1010 Vertical Conveying Systems	CONVEYING	136,000.00 sf	1.588/sf	216,000
D10 CONVEYING			1.588/sf	216,000
136,000.00 sf				
D20				
D2010 Plumbing Fixtures	FLUMDING	136,000.00 sf	4.572/sf	621,850
D2020 Domestic Water Distribution		136,000.00 sf	7.154/sf	972,887
D2030 Sanitary Waste D2040 Rain Water Drainage		136,000.00 sf	6.774/sf	921,240
D2090 Other Plumbing Systems		136,000.00 sf	6.629/sf	901,542
D20 PLUMBING			30.522/sf	4,151,009
136,000.00 sf				
D30	HEATING. VENTILATION AND			
D3020 Heat Generating Systems		136,000.00 sf	2.590/sf	352,300
D3030 Cooling Generating Systems		136,000.00 sf	10.065/sf	1,368,800
D3040 Distribution Systems		136,000.00 sf	53.262/sf	7,243,640
D3050 Terminal And Package Units D3060 Controls And Instrumentation		136,000.00 st 136,000.00 st	5.535/st 9.50 /sf	1 292 000
D3070 Systems Testing And Balancing		136,000.00 sf	9.50/si 1.20/sf	163.200
D3090 Other HVAC Systems And Equipment		136,000.00 sf	5.169/sf	703,000
D30 HEATING, VENTILATION, AND AIR CONDITIONII	NG (HVAC)		87.321/sf	11,875,640
136,000.00 sf				
D40	FIRE PROTECTION			
D4030 Standpipe Systems		136,000.00 sf	1.693/sf	230,306
D4040 Sprinklers D4090 Other Fire Protection Systems		136,000.00 si 136,000.00 sf	0.809/sf	110.000
D40 FIRE PROTECTION			8.149/sf	1,108,276
136,000.00 sf				
D50	ELECTRICAL			
D5010 Electrical Service And Distribution		136,000.00 sf	13.690/sf	1,861,895
D5020 Lighting & Branch Wiring		136,000.00 sf	24.595/sf	3,344,892
G4010 Site Electrical Utilities		136,000.00 st 136.000.00 st	22.402/st 7 869/ef	3,046,682
D50 ELECTRICAL		100,000.00 51	68.557/sf	9,323,719
136,000.00 sf				
D SERVICES			196.137/sf	26.674.644
136.000.00 sf				.,,
130,000.00 31				
<u>E</u>		EQUIPMENT AND F	URNISHINGS	
E10	EQUIPMENT			
E1010 Commercial Equipment		136,000.00 sf	4.779/sf	650,000
E1060 Residential Equipment		136,000.00 sf	0.162/sf	22,000



				Total	
Description		Quantity		Unit Cost	Amount
E1090 Other Equipment		136,000.00	sf	3.067/sf	417,150
E10 EQUIPMENT				8.008/sf	1,089,150
136,000.00 sf					
20	FURNISHINGS				
E2010 Fixed Furnishings E20 FURNISHINGS		136,000.00	sf	16.314/sf 16.314/sf	2,218,708 2,218,708
136,000.00 sf					
3.00 Labor hours					
E EQUIPMENT AND FURNISHINGS				24.322/sf	3,307,858
136,000.00 sf					
3.00 Labor hours					
:	SP	ECIAL CONS	TRUCTION		
		LUIAL OUNC	moonon	AND DEMOLITION	-
F2010 Building Demolition	SELECTIVE BUILDING DEMOLITION	136,000.00	sf	24.357/sf	3,312,500
F20 SELECTIVE BUILDING DEMOLITION				24.357/sf	3,312,500
136,000.00 sf					
F SPECIAL CONSTRUCTION AND DEMO	DLITION			24.357/sf	3,312,500
136 000 00 sf					
100,000.00 31					
2	<u>SI</u>	<u>TEWORK</u>			-
10	SITE PREPARATION				
G1010 Site Preparation G1020 Site Demolition & Relocations		136,000.00 136,000.00	sf sf	5.435/sf 1.897/sf	739,165 257,980
G1030 Site Earthwork		136,000.00	sf	31.879/sf	4,335,563
G10 SITE PREPARATION				39.211/sf	5,332,708
136,000.00 sf					
20 C2020 Darking Late	SITE IMPROVEMENTS	126 000 00	of	11 50 1/26	1 568 500
G2020 Parking Los G2030 Pedestrian Paving		136,000.00	sf	3.061/sf	416,250
G2040 Site Developement		136,000.00	sf	19.039/sf	2,589,257
G2050 Landscaping G20 SITE IMPROVEMENTS		136,000.00	SI	55.003/sf	7,480,351
136,000.00 sf					
30	SITE MECHANICAL UTILITIES				
G3010 Water Supply		136,000.00	sf	1.659/sf	225,586
G3030 Storm Drainage System		136,000.00	sf	6.207/sf	844,135
G30 SITE MECHANICAL UTILITIES				8.744/sf	1,189,146
136,000.00 sf					
	SITE ELECTRICAL UTILITIES				
		4/10 000 00	et	1 421/sf	193,282
540 G4020 Site Lighting G40 SITE ELECTRICAL UTILITIES		136,000.00	31	1.421/sf	193,282
40 G4020 Site Lighting G40 SITE ELECTRICAL UTILITIES 136,000.00 sf		136,000.00	51	1.421/sf	193,282
40 G4020 Site Lighting G40 SITE ELECTRICAL UTILITIES 136,000.00 sf		136,000.00	51	1.421/sf	193,28

136,000.00 sf



	Cli	inton Middle School			
Description		Quantity	Total Unit Cost	Amount	
G SITEWORK			104.379/sf	14,195,488	
<u>Z</u>	<u>G</u>	<u>ENERAL</u>			
Z10 Z1050 Temporary Facilities and Controls	GENERAL REQUIREMENTS	136,000.00 sf			
Z GENERAL				0	

136,000.00 sf



Estimate Totals

Dec. 1.4	• ···· · · ·	T -/ 1	Data
Description	Amount	Iotals	Rate
Direct Cost	84,048,967	84,048,967	
Design Contingency Escalation	8,404,897		10.000 %
Construction Contingency	1,680,979		2.000 %
Subtotal	15.128.814	99.177.781	
	-, -,-		
Sub Default Insurance	1 230 722		1 250 %
Project Requirements	4,425,600		1.250 /0
GCs & GRs (Price Proposal)	7,169,858		
Preconstruction Fee (Price Proposal)			
	12,835,180	112,012,961	
		112.012.961	
		,	
General Building Permit - Waived			
Subtotal		112,012,961	
CM Fee _	2,285,979		2.000 %
Subtotal	2,285,979	114,298,940	
Device to COE 136000			
Project GSF 130000			
Total		114,298,940	



Town of Clinton Clinton Middle School OPM - Dore + Whittier

Project name	Clinton Middle School 100 W Boylston St. Clinton MA 01510
Architect	Lamoureux Pagano Associates
Document	SD
Estimator	Fontaine Bros.
Job size	136000 sf



					Total		
ltem		Description	Takeoff Qty		Unit Cost	Amount	
<u>A</u>							
A10		FOUNDA	TIONS				
A1010		Standard Fou	ndations				
03-0000.000	125 125 125 20 14	CONCRETE Concrete Material - Footings, Piers & FND Walls Concrete Form Work Ceneral Concrete - Winter Conditions - Allowance Rigid Foundation Insulation - Vertical Re-Bar, Footings, Piers, Walls CONCRETE	1,272.00 33,527.00 1.00 18,050.00 70.00	cy sf Is sf tons	110.00 /cy 32.00 /sf 100,000.000 /ls 4.25 /sf 3,500.00 /tons 12.018/sf	139,920 1,072,864 100,000 76,713 <u>245,000</u> 1,634,497	
		136,000.00 sf					
		6,686.535 Labor hours					
07-0000.000	2 2	THERMAL & MOIST PROTECT Elevator Pit Waterproofing Foundation Damproofing THERMAL & MOIST PROTECT	1.00 9,025.00	ea sf	8,500.00 /ea 9.00_/sf 0.660/sf	8,500 <u>81,225</u> 89,725	
		136,000.00 sf					
31-0000.000	10 10 10 10 10 10	EARTHWORK E&B Fountation/Footings E&B Under Slab Plumbing 12" Crushed Gravel Under Slab Grade Building Fill from Cut Soil Handling EARTHWORK	2,700.00 2,000.00 87,500.00 87,500.00 10,000.00 6,500.00	lf lf sf cy cy	44.399 /lf 36.089 /lf 2.174 /sf 0.605 /sf 45.00 /cy <u>40.00</u> /cy <u>8.421/sf</u>	119,878 72,178 190,213 52,971 450,000 260,000 1,145,240	
		136,000.00 sf					
		A1010 Standard Foundations			21.099/sf	2,869,461	
		136,000.00 sf					
		6,686.535 Labor hours					
41030		Slab on Grade	9				
)3-0000.000	12 120	CONCRETE 15 mil Vapor Barrier Rigid Insulation Under Slab, Full Coverage	86,570.00 86,570.00	sf sf	1.00 /sf 3.85 /sf	86,570 333,295	
	Fo	Pa ntaine Bros., Inc. ~ 510 Cottage Street Springfield	ge 2 MA 01104 ~ T:4	13.781	.2020 ~ www.fontainebros.co	2/8/20 m	



						Total	
Item		Description		Takeoff Qty		Unit Cost	Amount
03-0000 000		CONCRETE					
05-0000.000	14	Re-Bar SOG		5 00	tons	3 500 00 /tons	17 500
	10	Place & Finish SOG - Ir	ncluded Saw Cuts for CJs	86,570.00	sf	8.00 /sf	692,560
		and Sealant		·			
	10	SOG Concrete		1,580.00	су	110.00 /cy	173,800
		CONCRETE				9.586/sf	1,303,725
		136,000.00	sf				
		477.610	Labor hours				
		A1030 Slab on Grade	2			9.586/sf	1.303.725
							.,
		136,000.00	sf				
		477.610	Labor hours				
		A10 FOUNDATIONS				30.685/sf	4,173,186
		136,000.00	sf				
		7,164.145	Labor hours				
		A SUBSTRUCT	JRE			30.685/sf	4,173,186
		136,000.00	sf				
		7,164.145	Labor hours				
<u>B</u>							
B10			SUDED	STRUCTURE			
			COT EN				
B1010			Floor Constr	ruction			
03-0000 000		CONCRETE					
05-0000.000	100	Place & Finish - SODs		52 530 00	sf	9.50 /sf	499 035
	100	SOD Concrete		1.120.00	CV	120.00 /cv	134,400
	100	Place & Finish - SODs	- House Keeping Pads,	1,300.00	sf	30.00 /sf	39,000
		Allow		·			
	14	Re-Bar, SOD		14.00	tons	3,500.00 /tons	49,000
		CONCRETE				5.305/sf	721,435
		136,000.00	sf				
		1,337.307	Labor hours				
05-0000.000		METALS					



					Total	
Item		Description	Takeoff Qty		Unit Cost	Amount
05-0000.000		METALS				
a 01		Structural Steel - Columns, Assumed Qty (6x6x3/8)	112.00	tn	5,250.00 /tn	588,000
a 01		Structural Steel - Floors, Sized Members	178.00	tn	5,250.00 /tn	934,500
a 01		Structural Steel - Floors, Unsized Allow	62.00	tn	5,250.00 /tn	325,500
a 01		Structural Steel - Floors, Connections	38.00	tn	5,250.00 /tn	199,500
	618	Metal Floor Deck	52,000.00	sf	7.00 /sf	364,000
	140	Misc Metals - Floor Construction	136,000.00	sf	5.00 /st	680,000
		METALS			22.732/sf	3,091,500
		136,000.00 sf				
07-8000.000		FIREPROOFING / CAULKING				
	2	Fireproofing, Allowance (Mech. Elec.)	1.00	ls	50,000.00 /ls	50,000
	2	Fireproofing, Intumescent Paint Allowance	1.00	ls	35,000.00 /ls	35,000
	2	Patch Days	4.00	cds	2,700.00 /cds	10,800
		FIREPROOFING / CAULKING			0.704/sf	95,800
		136,000.00 sf				
		P1040 Floor Construction			00 744/-6	2 000 725
		BIOTO Floor Construction			20.741/81	3,900,735
		136,000.00 sf				
		1,337.307 Labor hours				
B1020		Roof Construc	tion			
03-0000.000		CONCRETE				
	100	Place & Finish - SOD, RTU Pads	2,940.00	sf	40.00 /sf	117,600
	14	Re-Bar, SOD RTU	4.00	tons	3,500.00_/tons	14,000
		CONCRETE			0.968/sf	131,600
		136,000.00 sf				
		382.088 Labor hours				
05-0000.000		METALS				
a 01		Structural Steel - Screen Wall, Allow	10.00	tn	5,250.00 /tn	52,500
a 01		Structural Steel - Roof, Sized Members	283.00	tn	5,250.00 /tn	1,485,750
a 01		Structural Steel - Roof, Unsized Allow	135.00	tn	5,250.00 /tn	708,750
a 01		Structural Steel - Root, Skylights, 800lt, W12x40	16.00	tn tn	5,250.00 /tn	84,000
aur	300	Structural Steel - Root, Connections	40.00	ui ef	5,∠5U.UU /IN 7.00 /of	210,000
	320	Metal Roof Decking - Acoustic Gymnasium	6 800 00	sf	8.00 /si	54 400
	520	Cafeteria	0,000.00	31	0.00 /31	54,400
	140	Misc Metals - Roof	136,000.00	sf	1.50 /sf	204,000



					Total	
Item		Description	Takeoff Qty		Unit Cost	Amount
		METALS			24.557/sf	3,339,800
		136,000.00 sf				
07-8000.000		FIREPROOFING / CAULKING				
	2	Fireproofing, Roof Decking	1.00	ls	229,000.00 /ls	229,000
		FIREPROOPING / CAOLKING			1.004/SI	229,000
		136,000.00 sf				
		B1020 Roof Construction			27.209/sf	3,700,400
		136,000.00 st				
		382.088 Labor hours				
		B10 SUPERSTRUCTURE			55.950/sf	7,609,135
		136,000.00 sf				
		1,719.395 Labor hours				
B20		EXTERIO	R VERTICAL ENG	LOSU	RES	
B2010		Exterior Walls				
04-0000.000		MASONRY				
	110	Exterior Mock up - Masonry Allowance	1.00	ls	25,000.00 /ls	25,000
	110	Brick Veneer, Interstate, Norman Brick - MTN Red	30,330.00	sf	65.00 /sf	1,971,450
	110	Brick Veneer, Ties & Anchoring	30,330.00	sf	5.00 /sf	151,650
	110	Brick Veneer, Clean New	30,330.00	sf	4.00 /sf	121,320
	110	Pre-Cast Concrete Base Panels	1,600.00	lf	125.00 /lf	200,000
	110	Subcontractor Markups	1.00	ls	350,000.00 /ls	350,000
	110	Recon Adjustment	-1.00	Is	600,000.00 /ls	(600,000)
	5	Masonry Staging - Exterior	31,000.00	ST	<u> </u>	193,750
		MASUNRY			17.744/St	2,413,170
		136,000.00 St				
05-0000.000		METALS				
	140	Misc Metals - Exterior Walls METALS	136,000.00	st	0.50 /sf	<u> </u>
		136,000.00 sf				
07-0000.000		THERMAL & MOIST PROTECT				
	2	5" Rigid Cavity Wall Insulation (Masonry)	30,330.00	sf	5.50 /sf	166,815
	Fo	Pac ntaine Bros Inc. ~ 510 Cottage Street Springfield	je 5 MA 01104 ~ ⊤∙∕	13 78	1 2020 ~ www.fontainebros.com	2/8/202 n



					—	
					Total	
Item		Description	Takeoff Qty		Unit Cost	Amount
07-0000.000		THERMAL & MOIST PROTECT				
	2	5" Rigid Cavity Wall Insulation (Panels)	11,200.00	sf	5.50 /sf	61,600
	2	3" Rigid Cavity Wall Insulation (Soffits)	2,700.00	sf	5.50 /sf	14,850
	2	Closed Cell Insulation - Ext Wall Roof Edges	3,300.00	sf	10.00 /sf	33,000
	2	Closed Cell Insulation - Air Sealing Edges	1.00	ls	25,000.00 /ls	25,000
	10	Air Vapor Barrier, Self Adhered	45,230.00	sf	8.00 /sf	361,840
	2	GFRC Panel System	11,200.00	sf	140.00 /sf	1,568,000
	2	Composite Soffits	750.00	sf	145.00 /sf	108,750
	2	Roof Screen	0.00	NIC		
		THERMAL & MOIST PROTECT			17.205/sf	2,339,855
		136,000.00 sf				
07-8000.000		FIREPROOFING / CAULKING				
	2	Exterior Joint/Control & Caulking	136,000.00	sf	0.50 /sf	68,000
		FIREPROOFING / CAULKING			0.50 /sf	68,000
		136,000.00 sf				
09-0000.000		FINISHES				
	100	Exterior Wall Back Up, 8" LGMF, GWB interior	50,800.00	sf	21.00 /sf	1,066,800
	100	Face, Insul	55 600 00	ef	6.00 /sf	333 600
	100	Exterior Soffit Framing	750.00	of	75.00 /si	56 250
	100	FINISHES	750.00	31	10.711/sf	1,456,650
		136,000.00 sf				
		B2010 Exterior Walls			46.659/sf	6,345,675
		136,000.00 sf				
B2020		Exterior Wir	ndows			
00-000.000	2	Window Blocking	4 300 00	lf	20 408 /lf	87 755
	2	ROUGH CARPENTRY	4,500.00		0.645/sf	87,755
		136,000.00 sf				
08-0000 000		DOORS & WINDOWS				
23 2220.000	1000	Exterior Aluminum Curtainwall	3.550.00	sf	225.00 /sf	798.750
	1000	Window Films - Security Film	1 500 00	sf	40.00 /sf	60 000
	1000	Exterior Aluminum Curtainwall / Storefront -	1.00	ls	20.000.00 /ls	20.000
		Ballistic				_0,000
	1000	Exterior Aluminum Storefront / windows	4,580.00	sf	168.00 /sf	769,440
		Р	age 6			2/8/20
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					Total	
Item		Description	Takeoff Qty		Unit Cost	Amount
08-0000.000	1000	DOURS & WINDOWS	1.00	allow	75.000.00 /allow	75 000
	1000	DOORS & WINDOWS	1.00	allow		1 723 190
					12.01 //01	1,720,700
		136,000.00 sf				
		B2020 Exterior Windows			13.316/sf	1 810 945
						.,
		136,000.00 sf				
B2030		Exterior D	Doors			
08-0000.000		DOORS & WINDOWS				
	220	Exterior Doors	9.00	lfs	3,500.00 /lfs	31,500
	50	Overhead Door at Receiving	1.00	ea	15,000.00 /ea	15,000
	1000	Alum Doors, Frames & Hardware, Exterior	17.00	Its	8,000.00 /lfs	136,000
	10	Einish Hardware - Allowance	9.00	ea lfe	1 750 00 /lfs	5,650 15,750
	10	DOORS & WINDOWS	5.00	115	1,730.00 /ilis	204 100
					1.001/31	204,100
		136,000.00 St				
00-000 000		FINISHES				
09-0000.000	30	Paint Exterior HM Door Frames	4 00	еа	250.00 /ea	1 000
	30	Paint Exterior HM Doors	5.00	lfs	350.00 /lfs	1,000
		FINISHES	0.00		0.020/sf	2.750
						,
		136,000.00 sf				
		B2030 Exterior Doors			1 521/sf	206 850
						,
		136,000.00 sf				
					61 496/sf	8 363 470
						0,000,110
		136,000.00 sf				
B30		EXTE			URES	
<u>B3010</u>		Roof Cove	erings			
06-0000 000		ROUGH CARPENTRY				
	2	General Roof Blocking	136,000.00	sf	2.00 /sf	272.000
	2	Roof Blocking Perimeter	2,000.00	lf	20.00 /lf	40,000
		č	,			

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						Total	
Item		Description		Takeoff Qty		Unit Cost	Amount
		ROUGH CARPENTR	ΥY			2.294/sf	312,000
		136,000.00	sf				
07-5000.000		ROOFING					
	2	PVC Roofing (Insulation Board, Flashings)	n, Vapor Barrier, Cover	84,000.00	sf	30.00 /sf	2,520,000
	2	Roof Edge Flashing ROOFING		2,000.00	lf	50.00 /lf 19.265/sf	<u> </u>
		136,000.00	sf				
07-7000.000	10	ROOF & WALL ACCE	SSORIES			/	
	10 10	Elevator Vents Roof Ladders		1.00 3.00	ea ea	3,500.00 /ea 7 960 83 /ea	3,500 23 882
	10	Roof Drains		34.00	ea	710.83 /ea	24,168
	10	Roof Dunnage, Allow		1.00	ls of	50,000.00 /ls	50,000
	20	Roof Hatch - Standard	Door to roof	1,000.00	SI	25.00 /81	25,000
		ROOF & WALL ACC	ESSORIES			0.931/sf	126,551
		136,000.00	sf				
		4.875	Labor hours				
08-0000.000		DOORS & WINDOWS					
	1000	Skylight Systems	•	4,000.00	sf	210.00 /sf	840,000
		DOORS & WINDOW	S			6.176/st	840,000
		136,000.00	sf				
		B3010 Roof Covering	IS			28.666/sf	3,898,551
		136,000.00	sf				
		4.875	Labor hours				
		B30 EXTERIOR HOP	RIZONTAL ENCLOSURES			28.666/sf	3,898,551
		136,000.00	sf				
		4.875	Labor hours				
		B SHELL				146.111/sf	19,871,156
		136,000.00	sf				



					Total	
Item		Description	Takeoff Qty		Unit Cost	Amount
		B SHELL			146.111/sf	19,871,156
		136,000.00 sf				
		1,724.270 Labor hours				
<u>C</u>						
C10			INTERIOR CONSTRUCTIO	N		
C1010		In	terior Partitions			
04-0000.000		MASONRY				
	102	Interior CMU walls - Gymnasium	5,200.00	sf	40.00 /sf	208,000
	102	Interior CMU walls - Locker Rooms	0.00	sf	40.00 731	55,040
	5	Masonry Staging - Interior	12,790.00	sf	6.25 /sf	79,938
		MASONRY			2.551/st	346,978
		136,000.00 sf				
06-0000.000		ROUGH CARPENTRY				
	2		136,000.00	sf	0.50 /sf	68,000
		ROUGH CARPENIRY			0.50/St	68,000
		136,000.00 sf				
07-8000.000		FIREPROOFING / CAULKING				
	002 40	Misc. Fire Stopping w/ Trades	136,000.00	sf	0.50 /sf	68 000
	40	FIREPROOFING / CAULKING	100,000.00	31	0.50 /sf	68,000
		136,000.00 sf				
08 0000 000		DOORS & WINDOWS				
08-0000.000	10	Interior Storefront	1,168.00	sf	125.00 /sf	146,000
	10	Interior Storefront - Ballistic	192.00	sf	400.00 /sf	76,800
		DOORS & WINDOWS			1.638/sf	222,800
		136,000.00 sf				
09-0000.000	400	FINISHES		<i>.4</i>	00.00 1-5	0.040.000
	100	i ypical interior Partitions, Double Sided	130,504.00	SI	20.00 /St	2,010,080
			Page 9			2/8/202



					Total	
ltem		Description	Takeoff Qty		Unit Cost	Amount
09-0000.000		FINISHES				
	100	Typical interior Partitions, Single Sided	25,302.00	sf	17.00 /sf	430,134
	100	Skylight Surrounds	4,764.00	sf	30.00 /sf	142,920
	100	General Carp / Labor	136,000.00	sf	2.00 /sf	272,000
	100	Lifts & Staging	1.00	ls	45,000.00 /ls	45,000
	100	Mock ups	1.00	ls	20,000.00_/ls	20,000
		FINISHES			25.883/sf	3,520,134
		136,000.00 sf				
10-0000.000		SPECIALTIES				
	2	Operable Partition - 45'	1.00	ea	70,000.00 /ea	70,000
		SPECIALTIES			0.515/sf	70,000
		136,000.00 sf				
		C1010 Interior Partitions			31.588/sf	4,295,912
		136.000.00 sf				
C1020		Interior	Doors			
08-0000 000		DOORS & WINDOWS				
00 0000.000	10	Typical Interior Doors	276.00	lfs	1.000.00 /lfs	276.000
	10	Interior Ballistic Door and Sidelite, LvI 3	1.00	lfs	25,000.00 /lfs	25,000
	100	Interior Frames	262.00	ea	350.00 /ea	91,700
	100	Frame Install - Installed w/ GWB	0.00	ea		
	50	Overhead Coiling Doors, Cafe, Allowance	3.00	ea	12,000.00 /ea	36,000
	10	Borrowed Lites	300.00	sf	85.00 /sf	25,500
	10	Glass Guardrail - Cafeteria	18.00	lf	350.00 /lf	6,300
	10	Glass Guardrall - Main Stair & Second Floor Corridor	239.00	IT	350.00 /lf	83,650
	10	Interior Storefront - Ballistic Doors	4.00	lfs	15,000.00 /lfs	60,000
	10	Calming room One way Windows (4'x4')	60.00	sf	85.00 /sf	5,100
	10	PT Mirrors, Allow	25.00	sf	80.00 /sf	2,000
	1000	Alum Doors, Frames & Hardware, Interior	9.00	lfs	10,000.00 /lfs	90,000
	10	Door and Hardware Install	251.00	ea	650.00 /ea	163,150
	10	Finish Hardware - Allowance	251.00	lts	/lfs	439,250
		DOORS & WINDOWS			9.586/sf	1,303,650
		136,000.00 sf				
09-0000.000		FINISHES				
	40	Paint Doors And Frames	277.00	ea	230.00 /ea	63,710



					Total			
ltem		Description	Takeoff Qty		Unit Cost	An	Amount	
		FINISHES			0.468/s	f 6	63,710	
		136,000.00 sf						
		C1020 Interior Doors			10.054/s	f 1,36	67,360	
		136,000.00 sf						
C1030		Fitti	ngs					
05 0000 000		METALS						
03-0000.000	140 140	Misc Metals - General Misc Metals - General Stairs	136,000.00	sf	3.00 /	sf 40	08,000	
		METALS			3.00 /s	f 40	08,000	
		136,000.00 sf						
06-2000.000	_	FINISH CARPENTRY						
	2	Solid Surface Sills FINISH CARPENTRY	730.00	lf	80.00 // 0.429/s	f <u>5</u> f 5	58,400 58,400	
		136,000.00 sf						
10-0000.000		SPECIALTIES						
	2	Magnetic White Boards	110.00	ea	750.00 /	ea 8	32,500	
	2	Interactive White Boards	55.00	ea	2,000.00 /	ea 11	0,000	
	2	Tackboards	55.00	ea	950.00 /	за 5	52,250	
	110	8x8 ADA Classroom / Office / Typ Doors	262.00	ea	130.00 /	ea 3	34,060	
	110	8x6 ADA Restroom	10.00	ea	90.00 /	∋a	900	
	110	10x8 ADA Elevalor	2.00	ea	110.00 /	3a	220	
	110	1/x10 Stair Signage	5.00	ea	190.00 /	5d 00	950	
	110	Emergency Man Holder	10.00	ea	75.00	-a	750	
	110	Aluminum Letters - Allowance - 'Clinton Midd School'	le 1.00	ea	17,500.00	ea 1	17,500	
	110	24x24 Dedication Plaque	1.00	ea	5,000.00 /	ea	5,000	
	110	Misc. Signage	136,000.00	sf	0.50 /	sf 6	68,000	
	110	Aluminum Letters - Cafeteria	30.00	ea	225.00 /	ea	6,750	
	2	Plastic Toilet Partitions	41.00	ea	1,750.00 /	за 7	71,750	
	2	Urinal Screen	7.00	ea	500.00 /	ea	3,500	
	2	I ollet Partition Installation	1.00	ls	30,000.00 /	s 3	30,000	
	2	10 Grad Bars	28.00	ea	100.00 /	ee alle alle alle alle alle alle alle a	2,800	
	2	42 GIAD BAIS	28.00	ea	150.00 /	bt D	4,200	
	∠ 2	PT Dispenser w/Trash	28.00 28.00	60 60	225 00 /	20	6 300	
	2	Paper Towel Dispensers	20.00	ea		ea	200	
	2	Sanitary Napkin Disposal	35.00	ea	100.00 /	за	3,500	

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					Total	
Item		Description	Takeoff Qty		Unit Cost	Amount
10-0000 000		SPECIAL TIES				
10 0000.000	2	18 x 36 Framed Mirrors	36.00	ea	500.00 /ea	18 000
	2	Janitor Mop Racks	5.00	ea	250.00 /ea	1.250
	2	Changing Table, Allow	2.00	ea	3,500.00 /ea	7,000
	2	Toilet Accessories - Installation	1.00	ls	45,000.00 /ls	45,000
	30	MP-20 Extinguisher	20.00	ea	347.757 /ea	6,955
	30	Extinguisher Cabinets, Allow	20.00	ea	391.227 /ea	7,825
	30	Fire Extinguisher Cabinet Install	20.00	ea	285.00 /ea	5,700
	30	AED Cabinet, Allow	1.00	ea	2,500.00 /ea	2,500
	10	Lockers, 15x12 Corridors, Double Tier Metal	590.00	ea	335.00 /ea	197,650
	10	Lockers, Kitchen / Staff	8.00	ea	335.00 /ea	2,680
	10	Locker Room Lockers, 15x12 Double Tier, Metal	108.00	ea	350.00 /ea	37,800
	10	Locker Room Bench, Under Lockers (Locker Room)	120.00	lf	500.00 /lf	60,000
	10	Lockers, Gender Neutral Lockers	6.00	ea	335.00 /ea	2,010
	10	Extra Locker Doors - 5%	36.00	ea	100.00 /ea	3,600
		SPECIALTIES			6.647/sf	904,010
		136,000.00 sf				
11-0000.000		EQUIPMENT				
	001	Projection Screen 10' x 16'	1.00	ea	7,000.00 /ea	7,000
	001	Projection Screen 20' x 12'	1.00	ea	12,000.00 /ea	12,000
		EQUIPMENT			0.140/sf	19,000
		136,000.00 sf				
		C1030 Fittings			10.216/sf	1,389,410
		136,000.00 sf				
		C10 INTERIOR CONSTRUCTION			51.858/sf	7,052,681
		136,000.00 sf				
C20		STAIRS				
C2010		Stoir Constri	uction			
62010						
03-0000.000		CONCRETE				
	105	Stairs and Landings	4.00	Flt	4,500.00 /Flt	18,000
	105	Stairs and Landings, Main Stair	1.00	Flt	4,500.00 /Flt	4,500
	105	Stage Ramp	1.00	ls	25,000.00 /ls	25,000
		CONCRETE			0.349/sf	47,500

136,000.00 sf



						Total	
ltem		Description		Takeoff Qty		Unit Cost	Amount
		CONCRETE				0.349/sf	47,500
		136,000.00	sf				
05-0000.000	10 10 10	METALS Stairs and Rails - Featur Stairs and Rails - Egress Stairs and Rails - Roof METALS	e Stair	1.00 4.00 1.00	Fit Fit Fit	75,000.00 /Fit 35,000.00 /Fit 35,000.00 /Fit 1.838/sf	75,000 140,000 <u>35,000</u> 250,000
		136,000.00	sf				
		C2010 Stair Construct	ion			2.188/sf	297,500
		136,000.00	sf				
C2020			Stair	Finishes			
09-0000.000	2 2 30	FINISHES Terrazzo Treads Rubber Tile Landings & Paint pan stairs & Rails FINISHES 136,000.00	Treads sf	220.00 4.00 5.00	lf flt Flt	150.00 /lf 4,500.00 /flt 2,500.00 /Flt 0.467/sf	33,000 18,000 <u>12,500</u> 63,500
		C2020 Stair Finishes	of			0.467/sf	63,500
		C20 STAIRS	51			2 654/sf	361 000
		136,000.00	sf			2.004/31	501,000
<u>C30</u>				NTERIOR FINISHES			
C3010			Wall	Finishes			
06-2000.000	2 2	FINISH CARPENTRY Lobby/Cafeteria PLAM V PLAM Wall Panels, Allov Media	Vall Panels vance - Music, Cafe,	4,560.00 1,500.00	sf sf	39.00 /sf 39.00 /sf	177,840 58,500



					Total		
ltem		Description	Takeoff Qty		Unit Cost	Amount	
		FINISH CARPENTRY			1.738/sf	236,340	
		136,000.00 sf					
09-0000.000		FINISHES					
	100	FRP - 8' Height, Kitchen, JC	265.00	lf	110.00 /lf	29,150	
	100	FRP - 8' Height, Eyewash Showers	198.00	lf	110.00 /lf	21,780	
	50	Porcelain Wall Tile - Corridors, 7' AFF	14,840.00	sf	33.00 /sf	489,720	
	50	Porcelain Wall Tile - Restrooms, 7' AFF	9,700.00	sf	33.00 /sf	320,100	
	50	Porcelain Wall Tile - Cafeteria, 8' AFF	850.00	sf	33.00 /sf	28,050	
	50	Ceramic Wall Tile - Stairs, 7' AFF	3,080.00	sf	33.00 /sf	101,640	
	50	Ceramic Wall Tile - Locker Room, 7' AFF	2,388.00	sf	33.00 /sf	78,804	
	50	Porcelain Wall Tile - Lobby, 7' AFF	4,200.00	sf	33.00 /sf	138,600	
	2	Wall Protection - FRP at Kitchen, See Drywall		_			
	2	Custom Graphic Wall Allowance	1,000.00	st	15.00 /sf	15,000	
	2	Acoustical Wall Panels	2,900.00	st	42.00 /sf	121,800	
	2	Acoustical Wall Panels, Allowance, Media, Band,	1.00	ls	100,000.000 /ls	100,000	
	2	Acoustical Wall Panels - Snap on Aluminum	1.00	Allow	15.000.00 /Allow	15.000	
		Extrusions					
	10	Paint Walls - GYP	335,000.00	sf	1.45 /sf	485,750	
	10	Paint Walls - CMU	6,700.00	sf	1.50 /sf	10,050	
	10	Paint Touch up Allowance	1.00	ls	20,000.00 /ls	20,000	
		FINISHES			14.525/sf	1,975,444	
		136.000.00 sf					
		C3010 Wall Finishes			16.263/sf	2,211,784	
		136,000.00 sf					
C3020		Floor Finishes					
<u>09-0000 000</u>		EINISHES					
00 0000.000	2	Terrazzo Tile	5 000 00	sf	40.00 /sf	200 000	
	2	Floors Moisture Mitigation Testing	5.00		400.00 /loc	200,000	
	2	Floors Moisture Mitigation	17 000 00	sf	1 00 /sf	17 000	
	2	Flooring Protection	108 750 00	sf	1.00 /sf	135 938	
	40	Enoxy Elooring	16 059 00	sf	27.50 /sf	441 623	
	145	Sports Surfaces 2-1/8" Flooring System -	7 010 00	sf	28.00 /sf	196 280	
	140	Gymnasium	7,010.00	51	20.00 /01	100,200	
	145	Wood Flooring, Maple (Stage)	1,450,00	sf	27.00 /sf	39 150	
	2	Linoleum Flooring	45,220,00	sf	7 00 /sf	316 540	
	2	Resilient Base	16,879,00	lf	5 00 /lf	84 395	
f 10	-	Carpet Tile	726.00	sv	60 00 /sv	43 560	
	20	Metal Grating Frames Vestibule	300.00	sf	28.302 /sf	8 491	
	20	Walk Off Mats	300.00	sf	5 975 /sf	1 792	
	10	Sealed Concrete	1,935,00	sf	8 00 /sf	15 480	
	.0		1,000.00	0.	0.00 /01	10,400	

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						Total		
Item		Description		Takeoff Qty	Takeoff Qty			Amount
		FINISHES					11.046/sf	1,502,248
		136,000.00	sf					
		60.00	Labor hours					
		C3020 Floor Finishes	3				11.046/sf	1,502,248
		136,000.00	sf					
		60.00	Labor hours					
C3030			Ceiling Finishe	es				
09-0000.000		FINISHES						
	2499	GWB Ceilings / Soffiting	3	136,000.00	sf		1.90 /sf	258,400
	2	ACT-1: 2x2- Classroom	s, Corridors, Offices	85,350.00	sf		6.75 /sf	576,113
	2	ACT-2: 2x2 - Kitchen		2,450.00	st		7.50 /st	18,375
	2	ACT-3: 2x2 - 50% Musi	c/Band	1,000.00	st		10.00 /sf	10,000
	2	ACT-4: 2x2 - Toilet Roo	oms/Locker	6,210.00	st		10.50 /st	65,205
	C		Incoc/OT/PT/Exco	2 750 00	of		19.00 /of	40 500
	2	ACT-5. 2X2 - Health/We	e/Rand Coometric	2,750.00	SI		10.00 /si 40.00 /sf	49,500
	2	Diffusore	C/Band - Geometric	1,000.00	51		40.00 /51	40,000
	2	ACT-7: Clouds - Cafete	ria	4 200 00	sf		75.00 /sf	315 000
	2	ACT-8: TBD - Platform	Allowance	1,200.00	sf		20.00 /sf	21 200
	20	Paint Exposed Ceilings		9.323.00	sf		3.50 /sf	32.631
		FINISHES		-,			10.194/sf	1.386.423
		126 000 00	of					.,,.
		130,000.00	51					
		C3030 Ceiling Finish	es				10.194/sf	1,386,423
		136,000.00	sf					
		C30 INTERIOR FINIS	GHES				37.503/sf	5,100,455
		136,000.00	sf					
		60.00	Labor hours					
		C INTERIORS					92.016/sf	12,514,136
		136,000.00	sf					



						Total	
ltem		Description		Takeoff Qty		Unit Cost	Amount
<u>D</u>							
D10			CONVEYING				
D1010			Vertical Conveying	Systems			
03-0000.000	500	CONCRETE Grout Elevator Sill Angles CONCRETE		2.00	ea	500.00_/ea 0.007/sf	<u> </u>
		136,000.00 sf					
14-0000.000	2 2	CONVEYING SYSTEMS Elevator Usage - Operator Elevator, Holeless Hydraulic CONVEYING SYSTEMS		10.00 2.00	cd stop	2,500.00 /cd 95,000.00 /stop 1.581/sf	25,000 190,000 215,000
		136,000.00 sf					
		D1010 Vertical Conveying Systems				1.588/sf	216,000
		136,000.00 sf					
		D10 CONVEYING				1.588/sf	216,000
		136,000.00 sf					
D20			PLUMBING				
D2010			Plumbing Fixtures				
22-0000.000	1	<i>PLUMBING</i> Plumbing Fixtures					
	1	P-1 Water Closet, wall/sensor		27.00	ea	2,400.00 /ea	64,800
	1	P-2 Water Closet, wall/sensor		32.00	ea	2,450.00 /ea	78,400
	1	P-3 Urinal, wall/sensor		7.00	ea	2,200.00 /ea	15,400
	1	P-4 Urinal, Wall/sensor		7.00	ea	2,200.00 /ea	15,400
	1	P-5 Lavatory, Wall/sensor		30.00	ea	2,300.00 /ea	69,000
	1 1	r-ο Lavatory, wall/sensor		33.00	ea	2,300.00 /ea	75,900
	1	P-7 Water Cooler		7.00	ea	4,500.00 /ea	31,500
	1	P-8 Mop Receptor		3.00	ea	2,200.00 /ea	6,600
	ן א	r-y JINK D 101 /100 Sink		25.00	ea	1,900.00 /ea	47,500
	1	P-11 Sink		42.00 4 00	ea ea	1,900.00 /ea	79,800 7 600
				00	u	1,000.00 /04	7,000
			Page 1	6			2/8/20

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				Total	otal	
Item	Description	Takeoff Qty		Unit Cost	Amount	
22-0000 000	PI UMBING					
	1 P-12 Art Sink. 2 faucets and interceptor	8.00	ea	2.850.00 /ea	22.800	
	1 P-13 Exam Sink	2.00	ea	1,800.00 /ea	3,600	
	1 P-14 Shower Base, Valve & Drain	2.00	ea	2,400.00 /ea	4,800	
	1 P-15 Shower Valve & Drain	2.00	ea	2,000.00 /ea	4,000	
	1 P-16 Emergency Shower/Eyewash	12.00	ea	3,500.00 /ea	42,000	
	1 P-17 Water Closet, floor/sensor	2.00	ea	2,000.00 /ea	4,000	
	1 P-18 Washer Valve & Drain	2.00	ea	1,250.00 /ea	2,500	
	1 L-1 Faucet & Trim	20.00	ea	1,250.00 /ea	25,000	
	1 L-2 Faucet & Trim	8.00	ea	1,250.00 /ea	10,000	
	1 L-3 Faucet & Trim	4.00	ea	1,250.00 /ea	5,000	
	1 L-4 Faucet & Trim	5.00	ea	1,250.00 /ea	6,250	
	PLUMBING			4.572/sf	621,850	
	136,000.00 sf					
	D2010 Plumbing Fixtures			4.572/sf	621,850	
	136.000.00 sf					
D2020	Domestic Wa	ater Distribution				
22-0000.000	PLUMBING					
	1 Domestic Water Distribution					
	1 4" Domestic Water Pipe (Type "L" Cu.)	430.00	lf	140.00 /lf	60,200	
	1 3" Domestic Water Pipe (Type "L" Cu.)	80.00	lf	85.00 /lf	6,800	
	1 2-1/2" Domestic Water Pipe (Type "L" Cu.)	620.00	lf	64.00 /lf	39,680	
	1 2" Domestic Water Pipe (Type "L" Cu.)	1,385.00	lf	45.00 /lf	62,325	
	1 1-1/2" Domestic Water Pipe Type "L" Cu.)	380.00	lf	35.00 /lf	13,300	
	1 1-1/4" Domestic Water Pipe (Type "L" Cu.)	585.00	lf	32.00 /lf	18,720	
	1 1" Domestic Water Pipe (Type "L" Cu.)	565.00	lf	26.00 /lf	14,690	
	1 3/4" Domestic Water Pipe (Type "L" Cu.)	1,665.00	lf	21.00 /lf	34,965	
	1 1/2" Domestic Water Pipe (Type "L" Cu.)	3,375.00	lf	19.00 /lf	64,125	
	1 Fixture Rough In Piping	5,000.00	lf	28.00 /lf	140,000	
	1 Misc. Valves, Tags & Fittings	1.00	ls	68,221.00 /ls	68,221	
	1 Pipe Insulation - (1/2" - 1-1/4")	11,190.00	lf	11.00 /lf	123,090	
	1 Pipe Insulation - (1-1/2" - 5")	2,895.00	lf	16.00 /lf	46,320	
	1 Tempered Water Piping	,			,	
	1 2" TWS&R - Tempered Water Pipe - Main (Type	475.00	lf	45.00 /lf	21,375	
	1 1-1/4" TWS&R - Tempered Water Pipe - Main	125.00	lf	32.00 /lf	4,000	
	1 Misc Valves Tags & Fittings	1 00	ls	3 806 00 //s	3 806	
	1 Pine Insulation - $(1/2" - 1 - 1/4")$	00 00	lf	11 00 /lf	5,000 6 600	
	1 Domestic Water Equipment	000.00	п	11.00 /11	0,000	
	1 Backflow Preventer 4"	2 00	62	7 950 00 /00	15 000	
	1 Backflow Preventer 2"	2.00	ls	900.00 /ea	1 080	
	1 Backflow Preventer 1"	1 00	63	900.00 /13	000	
	1 PRV Station	1.00	6a	5 000 00 /ea	5 000	
	1 Circulating Pump	2.00	6a		3,000	
	Da	ae 17	u	2,200.00 /04	2/202	
	ra ra	9			2/0/202	



				Total	
ltem	Description	Takeoff Qtv		Unit Cost	Amount
	•••• •••				
22-0000.000	PLUMBING				
	1 Heat Pump Water Heaters	2.00	ea	65,000.00 /ea	130,000
	1 Hot Water Storage Tank	3.00	ea	20,000.00 /ea	60,000
	1 Expansion Tank	2.00	ea	2,400.00 /ea	4,800
	1 Water Meter, 4"	1.00	ea	5,500.00 /ea	5,500
	1 MV-1 - MV-2 - Mixing Valve	2.00	ea	2,800.00 /ea	5,600
	1 HB - Hose Bibb	14.00	ea	250.00 /ea	3,500
	1 Wall Hydrant	10.00	ea	/00.00 /ea	7,000
	PLUMBING			7.154/sf	972,887
	136,000.00 sf				
	D2020 Domestic Water Distribution			7.154/sf	972,887
	136,000.00 sf				
D2030	Sanitary Wa	aste			
22-0000.000	PLUMBING				
	1 Sanitary Waste & Vent Piping (Under Ground)				
	1 6" Sanitary Waste & Vent Pipe (U)	75.00	lf	74.00 /lf	5,550
	1 4" Sanitary Waste & Vent Pipe (U)	1,640.00	lf	62.00 /lf	101,680
	1 3" Sanitary Waste & Vent Pipe (U)	475.00	lf	55.00 /lf	26,125
	1 2" Sanitary Waste & Vent Pipe (U)	850.00	IT	45.00 /lf	38,250
	1 Cleanoul 1 Sepitery Weste & Vent Bining (Above Cround)	42.00	ea	450.00 /ea	18,900
	1 Sanitary Waste & Vent Piping (Above Ground)	1 560 00	If	68.00 /lf	106 080
	1 3" Sanitary Waste & Vent Pipe (A)	200.00	II If	50.00 /lf	11 800
	1 2" Sanitary Waste & Vent Pipe (A)	200.00	II If	48.00 /lf	100 320
	1 1-1/2" Kitchen Waste & Vent Pine (A)	2,000.00	lf	42.00 /lf	7 560
	1 Fixture Rough In Piping	3 750 00	lf	55.00 /lf	206 250
	1 Sanitary and Vent Equipment	-,			,
	1 Grease Interceptor - Interior	1.00	ea	10,000.00 /ea	10,000
	1 FD-1 - Floor Drain	35.00	ea	1,000.00 /ea	35,000
	1 FD-2 - Floor Drain	2.00	ea	1,200.00 /ea	2,400
	1 FD-3 - Floor Sink	9.00	ea	1,600.00 /ea	14,400
	1 FD-4 - Floor Drain	1.00	ea	1,200.00 /ea	1,200
	1 Electronic Trap Primer	20.00	ea	1,100.00 /ea	22,000
	1 SP-1 - Elevator Sump Pump w/Oil Separator	1.00	ea	12,000.00 /ea	12,000
	1 Lab Waste & Vent Piping (Under Ground)				
	1 4" Lab Waste & Vent Pipe (U)	315.00	lf	85.00 /lf	26,775
	1 3" Lab Waste & Vent Pipe (U)	390.00	lf	70.00 /lf	27,300
	1 Cleanout	16.00	ea	600.00 /ea	9,600
	Lab Waste & Vent Piping (Above Ground)	005 00	LC.	05.00 "5	
	I 2 Lab Waste & Vent Pipe (A)	605.00	IT IF	85.00 /lf	51,425
	I Fixure Rough III Piping Lab Waste Neutralization System	00.00 1	li Is	/ 5.00 /lf 45.000.00 /le	41,025 45,000
		1.00	10	-0,000.00 /13	+0,000



				Total		
Item	Description	Takeoff Qty	Unit C	ost	Amount	
	PLUMBING			6.774/sf	921,240	
	136,000.00 sf					
	D2030 Sanitary Waste			6.774/sf	921,240	
	136,000.00 sf					
D2040	Rain Wate	r Drainage		_		
22-0000.000	PLUMBING					
	1 Storm Piping (Under Ground)					
	1 RD-1 - (Comb RD/OD)	34.00	ea	1.600.00 /ea	54,400	
	1 Downspout Nozzle	16.00	ea	1,200.00 /ea	19,200	
	1 15" Storm Pipe (U)	175.00	lf	310.00 /lf	54,250	
	1 12" Storm Pipe (U)	370.00	lf	225.00 /lf	83,250	
	1 10" Storm Pipe (U)	210.00	lf	160.00 /lf	33,600	
	1 8" Storm Pipe (U)	330.00	lf	120.00 /lf	39,600	
	1 6" Storm Pipe (U)	405.00	lf	75.00 /lf	30,375	
	1 Storm Piping (Above Ground)				,	
	1 8" Storm Pipe (A)	525.00	lf	175.00 /lf	91.875	
	1 6" Storm Pipe (A)	2,415.00	lf	90.00 /lf	217,350	
	1 4" Storm Pipe (A)	840.00	lf	68.00 /lf	57,120	
	1 Drain Pipe Insulation	2,915.00	lf	18.00 /lf	52,470	
	PLUMBING	,		5.393/sf	733,490	
	136,000.00 sf					
	D2040 Rain Water Drainage			5.393/sf	733,490	
	136.000.00 sf					
D2090	Other Plun	nbing Systems		_		
22-0000.000	PLUMBING					
	1 Kitchen Plumbing Connections					
	1 Kitchen Equipment and Fixture Connections	1.00	ls	15,000.00 /ls	15,000	
	1 Radon Mitigation System					
	1 4" PVC (Sched 40) - Risers	800.00	lt	53.00 /lf	42,400	
	1 4" PVC (Sched 40) - Underground	3,150.00	lf	48.00 /lf	151,200	
	1 Plumbing General Conditions			(0, 0, 0, 0, 0, 0, 1, 1)		
	1 I esting & Disinfection	1.00	ls	12,000.00 /ls	12,000	
	1 Coordination & Management	1.00	IS	120,000.00 /ls	120,000	
	1 Permits and Fees	1.00	IS	45,000.00 /ls	45,000	
	1 Coordination Drawings / BIM	1.00	ls	60,000.00 /ls	60,000	
	1 Seismic Restraints / Bracing	1.00	ls	40,000.00 /ls	40,000	
	1 Coring & Patching / Firestopping	1.00	IS	25,000.00 /ls	25,000	
	Р	age 19			2/8/20	

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		D 1.4	T ((0)		lotal	
Item		Description	Takeoff Qty		Unit Cost	Amount
22-0000.000	1 1 1	PLUMBING Hoisting & Rigging / Floor Loading Equipment start up and inspection Access Panels - Furnish Only PLUMBING	1.00 1.00 1.00	ls Is Is	20,000.00 /ls 15,000.00 /ls 10,000.00 /ls 4.085/sf	20,000 15,000 10,000 555,600
		136,000.00 sf				
31-0000.000	001	EARTHWORK Radon Mitigation System EARTHWORK	1.00	ls	345,941.81_/ls 2.544/sf	<u>345,942</u> 345,942
		136,000.00 sf				
		D2090 Other Plumbing Systems			6.629/sf	901,542
		136,000.00 sf				
		D20 PLUMBING			30.522/sf	4,151,009
		136,000.00 sf				
D30			HEATING, VENTILATION, A	AND A	IR CONDITIONING (HVAC)	
D3020			Heat Generating Systems			
23-0000.000	1 1 1 1 1 1	HVAC Heating Equipment Heat Exchanger HX,1/2, 230 GPM P-1A/1B/1C, 200 GPM w/VFD BP-1A/1B, 110 GPM Electric Boiler EWB-1/2, 240 KW Air Separator Expansion Tank HVAC 136,000.00 sf	2.00 3.00 2.00 2.00 1.00 1.00	ea ea ea ea ea	65,000.00 /ea 20,000.00 /ea 11,000.00 /ea 65,000.00 /ea 5,500.00 /ea 4,800.00 /ea 2.590/sf	130,000 60,000 22,000 130,000 5,500 4,800 352,300
		D3020 Heat Generating Systems			2.590/sf	352,300
		136,000.00 sf				
D3030			Cooling Generating Systems			



				Total	
Item	Description	Takeoff Qty		Unit Cost	Amount
		-			
23-0000.000	HVAC				
	1 Cooling Equipment				
	1 ASHP Condensing Units - DOAS	208.00	ton	2,500.00 /ton	520,000
	1 ASHP Condensing Units - RTUs	105.00	ton	2,500.00 /ton	262,500
	1 ASHP Condensing Units - VRF	20.00	ton	2,500.00 /ton	50,000
	1 Chiller/Heater CH-1	150.00	ton	3,000.00 /ton	450,000
	1 P-2A/2B/2C, 300 GPM w/VFD	3.00	ea	23,000.00 /ea	69,000
	1 Air Separator	1.00	ea	5,500.00 /ea	5,500
	1 Expansion Tank	1.00	ea	4,800.00 /ea	4,800
	1 Buffer Tank	1.00	ea	7,000.00 /ea	7,000
	1 Premium for Geothermal System (Piping and Equipment)				
	HVAC			10.065/sf	1,368,800
	136,000.00 sf				
	D3030 Cooling Generating Systems			10.065/sf	1,368,800
	136,000.00 sf				
D3040	Distribution	Systems			
23-0000.000	HVAC				
	1 HVAC Air Distribution				
	1 Ductwork Galvanized	136,000.00	lbs	18.50 /lbs	2,516,000
	1 Kitchen Grease Duct	1.00	ls	65,000.00 /ls	65,000
	1 RGD's	313.00	ea	230.00 /ea	71,990
	1 Gym Return Grill	4.00	ea	850.00 /ea	3,400
	1 Displacement Diffuser	82.00	ea	475.00 /ea	38,950
	1 Linear Diffuser	336.00	lf	125.00 /lf	42,000
	1 Misc. Ductwork Accessories - Volume Dampers,	136,000.00	sf	0.60 /sf	81,600
	Fire Dampers, Volume Dampers etc.				
	1 Hydronic Piping (Includes Hangers & Supports)				
	1 Mechanical Room Piping	1.00	ls	100,000.000 /ls	100,000
	1 Hydronic Distribution Piping - Mains	10,000.00	lf	90.00 /lf	900,000
	1 Hydronic Distribution Piping - Branch	6,750.00	lf	50.00 /lf	337,500
	1 Valves and Accessories	1.00	ls	80,000.00 /ls	80,000
	1 Refrigerant Piping (Includes Hangers & Supports)			10.00 ///	~~~~
	 Refrigerant Piping - Branch (Branch Controller to Fan Coil Unit) 	1,450.00	lf	43.00 /lf	62,350
	1 Refrigerant Piping - Mains (Branch Selectors to Condenser Unit)	400.00	lf	55.00 /lf	22,000
	1 Refrigerant Piping - Rooftop Equipment	600.00	lf	80.00 /lf	48,000
	1 Condensate Piping				
	1 Condensate Drain Pipe (Type "L" Cu.)	550.00	lf	38.00 /lf	20,900
	1 Insulation				
	1 Duct wrap insulation	95,000.00	sf	6.85 /sf	650,750
	1 Pipe Insulation 1 Exhaust Fans	19,200.00	lf	15.00 /lf	288,000

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				Total	
Item	Description	Takeoff Qty		Unit Cost	Amount
23-0000.000	HVAC				
	1 EF-1, 4,000 CFM (lab exhaust)	0.00	NIC		
	1 EF-2, 2,250 CFM	1.00	ea	5,500.00 /ea	5,500
	1 EF-3, 980 CFM	1.00	ea	3,500.00 /ea	3,500
	1 KEF-1, 8,700 CFM	1.00	ea	12,000.00 /ea	12,000
	1 ASF-1 - Destratification Fan	8.00	ea	5,500.00 /ea	44,000
	1 Kitchen Hood w/Ansul System	1.00	ea	20,000.00 /ea	20,000
	1 Central Air Handling Equipment				
	1 DOAS-1 - Dedicated Outside Air Unit	1,200.00	cfm	28.00 /cfm	33,600
	1 DOAS-2 - Dedicated Outside Air Unit	1,200.00	cfm	28.00 /cfm	33,600
	1 DOAS-3 - Dedicated Outside Air Unit	5,300.00	cfm	28.00 /cfm	148,400
	1 DOAS-4 - Dedicated Outside Air Unit	8,000.00	cfm	28.00 /cfm	224,000
	1 DOAS-5 - Dedicated Outside Air Unit	3,200.00	cfm	28.00 /cfm	89,600
	1 DOAS-6 - Dedicated Outside Air Unit	6,000.00	cfm	28.00 /cfm	168,000
	1 DOAS-7 - Dedicated Outside Air Unit	9.000.00	cfm	28.00 /cfm	252,000
	1 RTU-1 - Rooftop HVAC Unit	8.000.00	cfm	24.00 /cfm	192,000
	1 RTU-2 - Rooftop HVAC Unit	2.000.00	cfm	24.00 /cfm	48.000
	1 RTU-3 - Rooftop HVAC Unit	6.500.00	cfm	24.00 /cfm	156,000
	1 RTU-4 - Rooftop HVAC Unit	6.000.00	cfm	24.00 /cfm	144,000
	1 RTU-5 - Rooftop HVAC Unit	3 000 00	cfm	24.00 /cfm	72 000
	1 MAU-1 - Kitchen Make-un Air Unit	5 500 00	cfm	24.00 /cfm	132,000
	1 ERV-1 - Energy Recovery Ventilator 200 CEM	1 00	ea	5 000 00 /ea	5 000
	1 Roof Curb	12.00	ea	6,000,00 /ea	72 000
	1 Sound Attenuation	1.00	ls	60,000,00 /ls	60,000
	HVAC	1.00	10	53.262/sf	7,243,640
	136,000.00 sf				
	D3040 Distribution Systems			53.262/sf	7,243,640
	136,000.00 sf				
D3050	Terminal An	d Package Units			
22 0000 000	HVAC				
20-0000.000	1 Heating & Cooling Terminal Equipment				
	1 Ductless Split System	1.00	62	10.000.00 /ea	10 000
	1 VRF Indoor Unit	a nn	62 62	3 500 00 /62	31 500
	1 VRF Branch Controller	3.00 2.00	62 62	7 650 00 /ea	15 300
	1 Fin Tube Radiation	2.00 1 025 00	lf	140 00 /lf	143 500
	1 VAV Terminal Unit	7 00	 ea	1 200 00 /ea	8 400
	1 VAV Terminal Unit Fan-Powered	00.8	62		136 000
	1 Mise Terminal Heating & Cooling Equipment	136 000 00	ef	2,000.00 /ea	100,000 208 000
	HVAC	130,000.00	31	5.535/sf	752,700
	136,000.00 sf				



								Total	
Item		Description		Takeoff Qty		Unit Cost		Amount	
		D3050 Terminal And P	ackage Units				5.535/sf	752,700	
		136,000.00 s	sf						
D3060			Controls	And Instrumentation					
23-0000.000									
	1	Automatic Temperature C	Controls for HVAC	400,000,00	- 6		0.50 /-6	4 000 000	
	1	HVAC	stem	136,000.00	SI		9.50 /sf	1,292,000	
		136,000.00 s	sf						
		D3060 Controls And In	strumentation				9.50 /sf	1,292,000	
		136,000.00 s	sf						
D3070			Systems	Testing And Balancing					
22 0000 000									
23-0000.000	1	Testing & Balancing							
	1	Testing & balancing		136.000.00	sf		1.20 /sf	163.200	
		HVAC		,			1.20 /sf	163,200	
		136,000.00 s	sf						
		D3070 Systems Testing	g And Balancing				1.20 /sf	163,200	
		136,000.00 s	sf						
D3090			Other H	/AC Systems And Equip	oment				
22 0000 000		HVAC							
20-0000.000	1	HVAC General Requirem	ents						
	1	Commissioning Support		1.00	ls	2	5,000.00 /ls	25,000	
	1	Coordination & managem	nent	1.00	ls	25	0,000.00 /ls	250,000	
	1	Permits and fees		1.00	ls	13	8,000.00 /ls	138,000	
	1	Coordination / BIM		1.00	ls	8	0,000.00 /ls	80,000	
	1	Seismic restraints / bracir	ng	1.00	ls	3	5,000.00 /ls	35,000	
	1	Coring & patching / firesto	opping	1.00	ls	4	0,000.00 /ls	40,000	
	1	Hoisting & rigging / floor l	oading	1.00	IS	100	J,UUU.UUU /ls	100,000	
	1	Equipment start up and in	Ispection	1.00	IS Is	2	5,000.00 /ls	25,000	
		Access panels - Turnish 0	iliy	1.00	IS	1	0,000.00 /IS	10,000	



				Total		
Item	Description	Description Takeoff Qty Ur		Unit Cost	Amount	
	HVAC			5.169/sf	703,000	
	136,000.00 sf					
	D3090 Other HVAC Systems And Equipme	nt		5.169/sf	703,000	
	136,000.00 sf					
	D30 HEATING, VENTILATION, AND AIR CONDITIONING (HVAC)			87.321/sf	11,875,640	
	136,000.00 sf					
D40		FIRE PROTECTION				
D4030	Star	dpipe Systems				
21-0000.000	 FIRE SUPRESSION Fire Protection Standpipe 8" Fire Service 4" Sprinkler Main w/ Fittings & Hangers 3" Sprinkler Main w/ Fittings & Hangers 2-1/2" Sprinkler Main w/ Fittings & Hangers 1 2-1/2" Sprinkler Main w/ Fittings & Hangers 1 Alarm valve 1 Alarm valve 1 Valves and accessories <i>FIRE SUPRESSION</i> 136,000.00 sf 	1.00 2,330.00 455.00 820.00 1.00 3.00 1.00	ls If If ea ea Is	12,000.00 /ls 52.50 /lf 43.25 /lf 41.10 /lf 3,200.00 /ea 4,800.00 /ea 25,000.00 /ls 1.693/sf	12,000 122,325 19,679 33,702 3,200 14,400 25,000 230,306	
D4040	Spri	nklers				
21-0000.000	 FIRE SUPRESSION Fire Protection Sprinkler System Zone Control Valve Sprinkler Head - Dry Sprinkler Head - Pendant/Upright Distribution & Branch Piping 	2.00 10.00 1,236.00 17,500.00	ea ea sf lf	2,200.00 /ea 275.00 /ea 120.00 /sf 35.00 /lf	4,400 2,750 148,320 612,500	



			Total				
Item	Description	Takeoff Qty	Unit Cost	Amount			
	FIRE SUPRESSION		5.647/sf	767,970			
	136,000.00 sf						
	D4040 Sprinklers		5.647/sf	767.970			
	136,000.00 sf			- ,			
14090	Other Fire Pro	otection Systems					
1-0000.000	FIRE SUPRESSION						
	1 Fire Protection General Conditions		0.000.00. //	0.000			
	1 Hydraulic Calculations	1.00 ls	3,000.00 /ls	3,000			
	1 Lesting & Inspection	1.00 Is	8,000.00 /ls	8,000			
	1 Drain & Fill System	1.00 IS	2,000.00 /ls	2,000			
		1.00 IS	40,000.00 /ls	40,000			
	1 Permits and Fees	1.00 Is	12,000.00 /ls	12,000			
	1 Coordination Drawings / BIM	1.00 Is	25,000.00 /ls	25,00			
	1 Seismic Restraints / Bracing - includes design	1.00 ls	7,000.00 /ls	7,00			
	1 Coring & Patching / Firestopping	1.00 ls	8,000.00 /ls	8,00			
	1 Hoisting & Rigging / Floor Loading	1.00 ls	5,000.00_/ls	5,000			
	FIRE SUPRESSION		0.809/sf	110,000			
	136,000.00 sf						
	D4090 Other Fire Protection Systems		0.809/sf	110,000			
	136,000.00 sf						
	D40 FIRE PROTECTION		8.149/sf	1,108,276			
	136,000.00 sf						
D50	ELECTR	ICAL					
05010	Electrical Ser	vice And Distribution					
26-0000.000	ELECTRICAL						
	2 Normal Power and Distribution		, <i>,</i>				
	2 Meter provisions/metering	12.00 ea	1,500.00 /ea	18,000			
	2 Power Monitoring	1.00 ea	25,000.00 /ea	25,000			
	2 4000A 480/277V main distribution panel with SPD	1.00 ea	265,000.00 /ea	265,00			
	2 1200A 480/277V distribution panelboard	1.00 ea	40,000.00 /ea	40,00			
	2 250A 480/277V distribution panelboard	3.00 ea	25,000.00 /ea	75,00			
	2 150A 480/277V panelboard (MLO)	1.00 ea	2,500.00 /ea	2,50			
	2 125A 480/277V panelboard (MLO)	1.00 ea	2,200.00 /ea	2,20			
	Par	ne 25		2/8/			
	Entrino Bros Inc. 510 Cottage Street Springfield		181 2020 - Markey fontoinchros	21012			
	Formaline bros., inc. ~ 510 Collage Street Springfield	, wia 01104 ~ 1.413.7	01.2020 ~ www.iontainepros.col	II.			



					-	Total	
ltem		Description	Takeoff Qty		Unit Cost		Amount
26-0000.000		ELECTRICAL					
	2	60A 480/277V panelboard (MLO)	3.00	ea	1,000.00	/ea	3,000
	2	225KVA transformer K-13	1.00	ea	36,730.00	/ea	36,730
	2	75KVA transformer K-13	1.00	ea	11,675.00	/ea	11,675
	2	45KVA transformer K-13	3.00	ea	8,690.00	/ea	26,070
	2	30KVA transformer K-13	4.00	ea	7,470.00	/ea	29,880
	2	30KVA transformer	2.00	ea	4,940.00	/ea	9,880
	2	800A 208/120V distribution panelboard (MCB)	1.00	ea	25,000.00	/ea	25,000
	2	225A 120/208V double tub panelboard	3.00	ea	7,500.00	/ea	22,500
	2	225A 120/208V panelboard (Shunt trip)	1.00	ea	6,500.00	/ea	6,500
	2	150A 120/208V panelboard (MLO)	2.00	ea	2,500.00	/ea	5,000
	2	125A 120/208V panelboard (MCB)	6.00	ea	3,000.00	/ea	18,000
	2	125A 120/208V panelboard (MLO)	3.00	ea	2,200.00	/ea	6,600
	2	100A 120/208V panelboard	3.00	ea	2.500.00	/ea	7,500
	2	150A 3P enclosed circuit breaker	7.00	ea	2.070.00	/ea	14,490
	2	Feeders	1100		_,010100	,00	,
	2	1200A feed (alum)	55 00	lf	516 00	/lf	28 380
	2	800A feed (alum)	30.00	lf	340.00	/lf	10,200
	2	400A feed (alum)	80.00	lf	170.00	/lf	13 600
	2	2500 feed (alum)	820.00	lf	88.00	/If	72 160
	2	2254 feed (alum)	295.00	lf	74.00	/If	21 830
	2	150A feed (alum)	160.00	lf	17.50	/If	7 600
	2	125A feed (alum)	285.00	li If	38.00	/11 /If	10,830
	2	120A feed (alum)	205.00	li If	33.00	/11 /If	1 508
	2	70A feed (aluli)	45.00	11 14	33.50	/11	7,000
	2		200.00	ll If	30.00	/11	7,200
	2	60A leed	985.00	п	28.00	/11	27,580
	2	Emergency Power and Distribution	4.00	1.	000 000 00	<i>n</i> -	000 000
	2	600KW diesel fueled generator set in	1.00	IS	320,000.00	/IS	320,000
	~	weatherproof enclosure (Quote)	4.00		40.050.00	,	10.050
	2	600KW diesel fueled generator set in	1.00	ea	12,250.00	/ea	12,250
	~	weatherproof enclosure (Labor)					
	2	400A automatic transfer switch (Labor)	1.00	ea	1,100.00	/ea	1,100
	2	Annunciator (Labor)	1.00	ea	850.00	/ea	850
	2	1200A automatic transfer switch	1.00	ea	25,100.00	/ea	25,100
	2	1200A docking station (Labor)	1.00	ea	2,530.00	/ea	2,530
	2	1200A 480/277V distribution panelboard EMSB	1.00	ea	65,000.00	/ea	65,000
	2	400A 480/277V distribution panelboard (MLO)	1.00	ea	12,000.00	/ea	12,000
	2	100A 480/277V panelboard (MLO)	3.00	ea	1,750.00	/ea	5,250
	2	75KVA transformer	1.00	ea	7,900.00	/ea	7,900
	2	250A 208/120V distribution panelboard	1.00	ea	25,000.00	/ea	25,000
	2	100A 208/120V panelboard (MLO)	1.00	ea	1,750.00	/ea	1,750
	2	Feeders					
	2	1200A feed (alum)	40.00	lf	516.00	/lf	20,640
	2	400A feed (alum)	55.00	lf	170.00	/lf	9,350
	2	250A feed (alum)	15.00	lf	88.00	/lf	1,320
	2	125A feed (alum)	30.00	lf	38.00	/lf	1,140
	2	100A feed (alum)	35.00	lf	33.50	/lf	1,173
	2	100A feed (MI cable)	800.00	lf	99.00	/lf	79,200
	2	MI cable connections	32.00	ea	250.00	/ea	8,000
	2	Machine and Equipment Power					
	2	Misc Equipment wiring	136,000.00	sf	1.00	/sf	136.000
	2	Elevator feed and connection	1.00	ea	6.000.00	/ea	6.000
					-,		-,

2/8/2024



		Description			Total	
Item			Takeoff Qty		Unit Cost	Amount
26-0000.000		ELECTRICAL				
	2	Chiller/Heater unit feed and connection	1.00	ea	12,000.00 /ea	12,000
	2	ASHP feed and connection	3.00	ea	5,000.00 /ea	15,000
	2	Boiler connection	2.00	ea	2,500.00 /ea	5,000
	2	Boiler feed and connection (Electric, 300A, 480V, 70LF ea.)	140.00	lf	142.00 /lf	19,880
	2	Split unit feed and connection	1.00	ea	2,500.00 /ea	2,500
	2	VRF/Indoor feed and connection	9.00	ea	650.00 /ea	5,850
	2	VRF/BC feed and connection	2.00	ea	650.00 /ea	1,300
	2	ERV feed and connection	1.00	ea	5,000.00 /ea	5,000
	2	MAU feed and connection	1.00	ea	5,500.00 /ea	5,500
	2	Pump feed and connection	7.00	ea	1,200.00 /ea	8,400
	2	DOAS feed and connection	7.00	ea	5,000.00 /ea	35,000
	2	RTU feed and connection	5.00	ea	5,000.00 /ea	25,000
	2	MAU feed and connection	1.00	ea	3.500.00 /ea	3,500
	2	ERU feed and connection	1.00	ea	5.000.00 /ea	5.000
	2	FF feed and connection	3.00	ea	1,000,00 /ea	3,000
	2	WH feed and connection	2 00	ea	1 200 00 /ea	2 400
	2	Destratification fan feed and connection	8.00	ea	1,200,00 /ea	9,600
	2	Cord reel with feed and connection	10.00	62	1,200.00 /ea	15 000
	2	Motorized door feed and connection (allow)	8.00	62	1,500.00 /ea	12,000
	2	Kitchen/Servery Equipment feed and connections	1.00	le le	30.000.00 /ea	30,000
	2	KEE food and connection	1.00	15	1,500,00, /00	1 50
	2	Head feed and connection	1.00	ea	1,500.00 /ea	1,50
	2	Root leed and connection	1.00	ea	1,500.00 /ea	1,00
	2	Scoreboard/ shot clocks with feed and connection	2.00			30,000
	2	ELECTRICAL	1.00	15	13.690/sf	1,861,89
		136,000.00 sf				
		D5010 Electrical Service And Distribution			13.690/sf	1,861,895
		136,000.00 sf				
D5020		Lighting & P	ranah Wiring			
00020						
26-0000.000		ELECTRICAL				
	2	Lighting and Controls				
	2	Type AD8	381.00	ea	960.00 /ea	365,760
	2	Туре В2	47.00	ea	250.00 /ea	11,750
	2	Туре В4	22.00	ea	250.00 /ea	5,50
	2	Type C (Strip)	92.00	ea	165.00 /ea	15,18
	2	Type CP1 (Decorative)	20.00	ea	1,500.00 /ea	30.00
	2	Type D	561.00	ea	400.00 /ea	224.40
	2	Type G (Gym)	30.00	ea	550.00 /ea	16.50
	2	Type K2	63.00	ea	250.00 /ea	15.75
	2		24 00	ea	800.00 /ea	19 20
	2	Type RP1	2 00	ea	1 200 00 /ea	2 40
	2	Type SW4	17 00	ea	400.00 /ea	2,400 6 80/
	2	Type U2	141 00	ea	250.00 /ea	35 25
	-	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ao 97	04	200.00 /04	00,200
		Pa	ige ∠ <i>i</i>			2/8/2

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						Total	
ltem		Description	Takeoff Qty		Unit Cost		Amount
26-0000.000		ELECTRICAL					
	2	Type ZW (walpak)	29.00	ea	450.00	/ea	13,050
	2	Exit sign (not depicted at this scope level)	136,000.00	ea	1.00	/ea	136,000
	2	Lighting not depicted at this scope level	136,000.00	ea	3.00	/ea	408,000
	2	Lighting Controls (Wireless)					
	2	Network lighting controls	136,000.00	sf	2.00	/sf	272,000
	2	Occupancy sensor	388.00	ea	220.00	/ea	85,360
	2	S - Single pole switch	234.00	ea	36.00	/ea	8,424
	2	WAC	9.00	ea	350.00	/ea	3,150
	2	Lighting Circuitry					
	2	Device box	2,100.00	ea	32.00	/ea	67,200
	2	3/4" EMT	5,000.00	ea	11.50	/ea	57,500
	2	#12 THHN	25,000.00	ea	1.10	/ea	27,500
	2	12/2 MC	40,000.00	ea	6.25	/ea	250,000
	2	LV cable	7,000.00	ea	2.20	/ea	15,400
	2	Branch Circuitry					
	2	Device plate	1,225.00	ea	6.00	/ea	7,350
	2	WP device plate	3.00	ea	22.00	/ea	66
	2	Floor box	93.00	ea	550.00	/ea	51,150
	2	Device box	1,270.00	ea	32.00	/ea	40,640
	2	3/4" EMT	7,000.00	lf	11.50	/lf	80,500
	2	#12 THHN	35,000.00	lf	1.10	/lf	38,500
	2	12/2 MC	30,000.00	lf	6.25	/lf	187,500
	2	Lightning and Power Specialties					
	2	Building & service grounding	1.00	ls	20,000.00	/ls	20,000
	2	Lightning protection System (not depicted in	1.00	ls	80,000.00	/ls	80,000
		specs or plans)					
	2	Miscellaneous Systems					
	2	Coring	1.00	ls	10,000.00	/ls	10,000
	2	Temporary power and lights	1.00	ls	125,000.00	/ls	125,000
	2	Seismic restraints	1.00	ls	5,000.00	/ls	5,000
	2	Fireproofing	1.00	ls	2,500.00	/ls	2,500
	2	Subcontractor supervision & general conditions	1.00	ls	150,000.00	/ls	150,000
	2	BIM & Coordination	1.00	ls	150,000.00	/ls	150,000
	2	Seismic restraints	1.00	ls	5,000.00	/ls	5,000
	2	Fees & permits	1.00	ls	120,000.00	/ls	120,000
	2	Testing and Commissioning					
	2	Testing and commissioning/Coordination study	1.00	ls	25,000.00	/ls	25,000
	2	General Power					
	2	Duplex receptacle	750.00	ea	36.00	/ea	27,000
	2	Duplex receptacle in floor box	93.00	ea	36.00	/ea	3,348
	2	Duplex receptacle (USB)	37.00	ea	46.00	/ea	1,702
	2	Duplex receptacle (Hosp)	10.00	ea	46.00	/ea	460
	2	Double duplex receptacle	97.00	ea	72.00	/ea	6,984
	2	GFI duplex receptacle	317.00	ea	51.00	/ea	16,167
	2	GFI duplex receptacle (Hosp)	3.00	ea	57.00	/ea	171
	2	Special purpose outlet	12.00	ea	65.00	/ea	780
	2	Devices not depicted at this scope level	136,000.00	sf	0.50	/sf	68.000
	2	PV Conduit and Pulls for future	1.00	ls	30,000.00	/ls	30,000



					Total			
Item		Description	Takeoff Qty		Unit Cost	Amount		
		ELECTRICAL			24.595/sf	3,344,892		
		136,000.00 sf						
		D5020 Lighting & Branch Wiring			24.595/sf	3,344,892		
		136,000.00 sf						
D5030		Communic	ations & Security					
			·					
38-0000.000	10	DOURS & WINDOWS	4.00	00	3 500 00 /ea	14 000		
	10	DOORS & WINDOWS	4.00	ca	0.103/sf	14,000		
		136,000.00 sf						
27 0000 000		COMMUNICATIONS						
27-0000.000	001	PA Clock System						
	001	Head end	1.00	ls	30.000.00 /ls	30,000		
	001	ECS	82.00	ea	350.00 /ea	28,700		
	001	Clock	92.00	ea	250.00 /ea	23,000		
	001	Speaker (Talk back)	69.00	ea	300.00 /ea	20,700		
	001	Speaker	68.00	ea	250.00 /ea	17,000		
	001	Speaker backbox	137.00	ea	55.00 /ea	7,535		
	001	Device box with conduit stub to ceiling	174.00	ea 1f	165.00 /ea	28,710		
	001	Cabling	30,000.00	п	2.20 /11	66,000		
	001	Speech Amplification (per classroom)	52.00	loc	3 800 00 /loc	197 600		
	001	Area of refuge	52.00	100	3,000.00 //00	107,000		
	001	Area of refuge	1.00	ls	25,000.00 /ls	25,000		
	001	Av System				·		
	001	Projectors and AV equipment (provided by others with EEE)						
	001	AV backbox and conduit stub to ceiling	101.00	ea	165.00 /ea	16,665		
		(PH/PL/TVHL)						
	001	Cafeteria Stage Sound system	1.00	ls	75,000.00 /ls	75,000		
	001	Cafeteria stage sound system (Rough-in)	1.00	IS	25,000.00 /ls	25,000		
	001	Stage/Platform lighting and dimming system	1.00	le	75,000,00 //s	75 000		
	001	Stage/Platform lighting and dimming system (Rough-in)	1.00	ls	25,000.00 /ls	25,000		
	001	Sound System						
	001	Gymnasium & Cafeteria	1.00	ls	30,000.00 /ls	30,000		
	001	Media Center	1.00	ls	30,000.00 /ls	30,000		
	001	Band Room (spec)	1.00	ls	15,000.00 /ls	15,000		
	001	Digital signage	100 000 00	of		<u> </u>		
	001	Rough-In for Digital Signage	136,000.00	ST	0.50 /ST	000,80		
	001	Telcomm MDF closet modify and connections	1 00	ls		15 000		
	001			10	10,000.00 //3	10,000		
		P	age 29			2/8/20		

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					Tot	al
ltem		Description	Takeoff Qty		Unit Cost	Amount
27-0000.000		COMMUNICATIONS				
	001	Telcomm IDF closet, modify and connections	1.00	ls	10,000.00 /ls	10,000
	001	1-port device (W)	58.00	ea	26.00 /ea	1,508
	001	1-port device	7.00	ea	26.00 /ea	182
	001	2-port device	103.00	ea	52.00 /ea	5,356
	001	2-port device (floor)	12.00	ea	52.00 /ea	624
	001	4-port device (floor)	5.00	ea	120.00 /ea	600
	001	WS (2-port device)	35.00	ea	52.00 /ea	1,820
	001	PH (2-port device)	49.00	ea	52.00 /ea	2,548
	001	PL (2-port device)	49.00	ea	52.00 /ea	2,548
	001	TVHL (2-port device)	3.00	ea	52.00 /ea	156
	001	WAP device	78.00	ea	750.00 /ea	58,500
	001	Wire guard	4.00	ea	125.00 /ea	500
	001	Cat. 6A cable	132,000.00	lf	2.30 /lf	303,600
	001	Backbone cabling	300.00	lf	25.00 /lf	7,500
	001	Device box with conduit stub to ceiling	219.00	ea	165.00 /ea	36,135
	001	Cable tray	65.00	lf	70.00 /lf	4,550
	001	4" sleeves	8.00	ea	250.00 /ea	2,000
	001	Network Switching & VOIP	136,000.00	sf	3.00 /sf	408,000
		COMMUNICATIONS			12.243/sf	1,665,037
		136,000.00 sf				
22 2222 222						
28-0000.000	10	ELECTRONIC SAFETY & SECURITY				
	10	Security Access Control &CCTV	1.00	la	25,000,00 //a	25,000
	10	CCTV compare (190)	1.00	15	20,000.00 /15	23,000
	10	CCTV camera (180) WP	4.00		3,000.00 /ea	38 500
	10	CCTV camera (PTZ)	11.00	ea op	2,500.00 /ea	10,000
	10	CCTV camera	30.00	6a	2,000.00 /ea	78,000
	10	Card reader	18.00	6a	2,000.00 /ea	10,000
	10	Duress button	5.00	6a	250.00 /ea	1 250
	10	Door contact	30.00	6a	300.00 /ea	1,200
	10	Motion sensor	8.00	ea	300.00 /ea	2 400
	10	REX	18.00	60	350.00 /ea	6 300
	10	Electric lock (provided by DHC, connection only)	38.00	6a	150.00 /ea	5 700
	10	Electric nower transfer	22.00	ea	350.00 /ea	7 700
	10	VMS (Intercom)	2 00	6a	2 500.00 /ea	5,000
	10	VMS (Intercom)	2.00	ea	1 200 00 /ea	2 400
	10	Security wall box 1" sleeve	50.00	60	200.00 /ea	10,000
	10	Door J-Box	22.00	ea	40.00 /ea	880
	10	Device box	210.00	ea	40.00 /ea	8 400
	10	3/4" FMT	10 000 00	lf	11 50 /lf	115 000
	10	Cabling	20,000,00	lf	2 20 /lf	44 000
	10	Security devices and cabling not denicted at this	136,000,00	" ef	2.20 /m 1.50 /sf	204 000
	10	scope level	100,000.00	51	1.00 /31	204,000
	10	Fire Alarm System				
	10	Control panel	1.00	ea	30,000.00 /ea	30,000
	10	Smoke control panel	1.00	ea	5,000.00 /ea	5,000
	10	NAC	1.00	ea	1,500.00 /ea	1,500
	10	Annunciator	2.00	ea	2,000.00 /ea	4,000

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^{2/8/2024}



Item Description Takeoff Oty Unit Cost Amount 28-000.000 ELECTRONIC SAFETY & SECURITY 5 25 5 6 25 5 6 225 5 7						Total	
28-000.000 ELECTRONIC SAFETY & SECURITY 10 Beacon 1.00 ea 225.00 (ea 225 10 Beacon 1.00 ea 225.00 (ea 225 10 Knox Box 4.00 ea 380.00 (ea 1.00 10 Graphic map 1.00 ea 380.00 (ea 1.00 10 Radio master box 1.00 ea 150.00 (ea 1.2375 10 Duct smoke detector with remote test switch 6.00 ea 150.00 (ea 1.305 10 Visual device 10.00 ea 115.00 (ea 1.825 10 Remote atumin indicator 9.00 ea 115.00 (ea 1.825 10 Modules 30.00 ea 115.00 (fa 1.055 10 Activity and device 130.000 of 2.20 (fa 4.950 10 Box Tox 310.000 of 2.20 (fa 4.950 10 Box Tox 310.000 of 1.00 (fa 2.00 (fa 4.950	Item		Description	Takeoff Qty		Unit Cost	Amount
10 Beacon 1.00 ea 225.00 /ea 225 10 Bell 1.00 ea 225.00 /ea 225 10 Knox Box 4.00 ea 225.00 /ea 225 10 Knox Box 4.00 ea 150.00 /ea 1000 10 Radio master box 1.00 ea 150.00 /ea 95.00 10 Initiating device 75.00 ea 165.00 /ea 33.00 10 Duct smoke detector with remote test switch 6.00 ea 115.00 /ea 13.85 10 Madukai device 55.00 ea 115.00 /ea 13.85 10 Bender and indicator 9.00 ea 115.00 /ea 43.95 10 Bod ADAS System 10.00 if 2.20 /if 30.600 11 2.22 /if 30.600 10 BDA/DAS System 1.00 is 100.000.00 /s 100.000 10 In-Building Celluar Amplification System 1.00 is 10.050 /ef 68.000 10.050 /ef	28-0000.000		ELECTRONIC SAFETY & SECURITY				
10 Bell 1.00 ea 225.00 /ea 225.00 10 Knox Box 4.00 ea 350.00 /ea 1.400 10 Graphic map 1.00 ea 350.00 /ea 1.000.00 10 Radio master box 75.00 ea 95.00 /ea 123.75 10 Dud smoke detedor with remote test switch 6.00 ea 550.00 /ea 133.00 10 Audo/visual device 65.00 ea 125.00 /ea 185.50 10 Wisual device 65.00 ea 125.00 /ea 105.50 10 Bedwice 310.00 ea 155.00 /ea 143.55 10 Bedwice box 310.00 ea 15.50 /ea 143.55 10 Bedwice and cabling not depicted at this scope 136,000.00 sf 1.50 /sf 204.000 level BDA/DAS system 1.00 is 100.000.00 /s 100.000 10 In-Building Cellular Amplification System 1.00 is 100.000 /s 100.000 10 In-Building Cellular Amplification Contractor 0500 /sf		10	Beacon	1.00	ea	225.00 /ea	225
10 Knox Box 4.00 ea 350.00 /ea 1,000 10 Graphic map 1.00 ea 1,0000 /ea 1,000 10 Radio master box 1.00 ea 1,5000 /ea 9,500 10 Initiating device 75.00 ea 165.00 /ea 12,375 10 Duct smoke detector with remote test switch 6.00 ea 145.00 /ea 3,300 10 Audio/visual device 65.00 ea 145.00 /ea 8,125 10 Remote alarm indicator 9.00 ea 116.00 /ea 1,035 10 Device box 310.00 ea 136.00 /ea 4,955 10 BoA/DAS system 1.00 is 100,000 00 /s 100,000 10 BoA/DAS system 1.00 is 100,000 00 /s 100,000 10 In-Boulding Cellular Amplification System 1.00 is 100,000 00 /s 100,000 10 In-Boulding Cellular Amplification System 1.00 is 100,000 00 /s <td></td> <td>10</td> <td>Bell</td> <td>1.00</td> <td>ea</td> <td>225.00 /ea</td> <td>225</td>		10	Bell	1.00	ea	225.00 /ea	225
10 Graphic map 1.00 ea 1,000,00 (ea 1,000 10 Radio master box 1.00 ea 9,500.00 (ea 12,375 10 Duct smoke detector with remote test switch 6.00 ea 55.00 (ea 12,375 10 Audiovisual device 130,00 ea 165.00 (ea 13,850 10 Visual device 65.00 ea 15.00 (ea 16,850 10 Remote alarm indicator 9.00 ea 165.00 (ea 13,650 10 Device box 31000 ea 165.00 (ea 13,950 10 Device box 310,000 ea 165.00 (ea 11,780 10 FA cabling 18,000,000 if 1.22.01 /if 143,550 10 FA cabling not depicted at this scope 136,000,00 sf 1.050 /isf 204,000 10 In-Building Cellular Amplification System 1.00 is 100,000 /is 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000 /is 100,000 10 In-Building Cellular Amplifica		10	Knox Box	4.00	ea	350.00 /ea	1,400
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10 Initialing device 75.00 ea 165.00 fea 12,375 10 Duct smoke detector with remote test switch 6.00 ea 55.00 fea 13.850 10 Audio/visual device 65.00 ea 125.00 fea 18.850 10 Modules 30.00 ea 125.00 fea 18.250 10 Modules 30.00 ea 125.00 fea 1.250 10 Device box 31.00 ea 18.500 fea 4.950 10 Device box 316.000.00 if 11.50 fif 14.500 fig 204.000 10 FA cabling not depicted at this scope 136.000.00 if 1.50 fs 204.000 10 BDA/DAS system 1.00 is 100.000.000 is 100.000 i		10	Radio master box	1.00	ea	9,500.00 /ea	9,500
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10 Automisual device 130.00 ea 149.00 /ea 168.90 10 Visual device 65.00 ea 115.00 /ea 1.05 10 Remote alarm indicator 9.00 ea 115.00 /ea 1.05 10 Device box 310.00 ea 165.00 /ea 4.950 10 Device box 310.00 ea 165.00 /ea 4.950 10 Device box 310.00 ea 165.00 /ea 4.950 10 Device box 310.00 ea 145.00 /ft 143.750 10 FA devices and cabling not depicted at this scope 136,000.00 if 12.00 /ft 204.000 10 BDA/DAS system 1.00 is 100.000.00 /ft 100.000 10 In-Building Cellular Amplification System 1.00 is 100.000.00 /ft 100.000 10 In-Building Cellular Amplification System 1.00 is 0.50 /sf 68.000 10 In-Building Cellular Amplification System 1.00 is 1.		10	Duct smoke detector with remote test switch	6.00	ea	550.00 /ea	3,300
10 Visial device b3.00 ea 125.00 /ea 5,125 10 Remote alarm indicator 9.00 ea 115.00 /ea 1,935 10 Modules 31.00 ea 165.00 /ea 4,955 10 Device box 31.00 ea 38.00 /ea 11,780 10 JA* ENT 12,500.00 if 11,50 /if 39.600 10 FA devices and cabling not depicted at this scope 136,000.00 sf 1.50 /sf 204,000 ievel 10 BDA/DAS System 1.00 is 100,000.000 /is 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000.000 /is 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000.000 /is 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000.00 /is 10,000.00 10 In-Building Cellular Amplification System 1.00 is		10	Audio/visual device	130.00	ea	145.00 /ea	18,850
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10 Derive DAX 310:00 dea 310:00 dea 111:50 if 143:750 10 FA devices and cabling not depicted at this scope 136:000.00 if 2.20 if 336:00 10 FA devices and cabling not depicted at this scope 136:000.00 if 2.20 if 39:60 10 BDA/DAS System 100,000.000 is 100,000 is 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000.000 is 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000.000 is 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000.000 is 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000.000 is 100,000 10 Environmental Sensors - Air Quality (spec) 136:000.00 sf 136:000.00 is 1.36:600 204000 of Ste Electrical Utilities 33-0000.00 sf 30:000.00 is 1.36:00.00 is 10		10	Modules Device box	30.00	ea	165.00 /ea	4,950
10 57 Lbm 12,00000 if 12,00000 if 12,00000 if 22,00000 if 22,000000 if 22,000000 if 22,0000000 if 22,0000000000 if 22,00000000000000000000000000000000000		10		12 500 00	ea If	11.50 /lf	1/3 750
10 FA desing 10,000,000 i 2.2.0 m 39,000 10 FA desing 136,000,000 sf 1.50 isf 204,000 10 BDA/DAS System 1.00 is 100,000,000 /ls 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000,000 /ls 100,000 10 In-Building Cellular Amplification System 1.00 is 100,000,000 /ls 100,000 10 Environmental Sensors - Air Quality (spec) 136,000.00 sf 0.50 /sf 68,000 11 Environmental Sensors - Air Quality (spec) 136,000.00 sf 1.00 fs 10.056/sf 1.367,645 136,000.00 sf 5030 Communications & Security 22.402/sf 3.046,682 136,000.00 sf 1.00 ea 10,000.00 /ea 10,000 10 Utility mounted transformer meter 1.00 ea 12.000 /ea 850.00 /ea 850.00 /ea 850.00 /ea 13.000 13.400 (concrete encased) 13.400 (concrete encased) 13.400 13.400 (concrete encased) 13.600.00 /ea 13.000 13.500 /lf		10	5/4 ENT	12,000.00	II IF	2.20 /lf	30,600
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U01 U1iity mounted transformer meter 1.00 ea 850.00 /ea 850 001 Connections at manhole (electrical) 1.00 ea 10,000.00 /ea 10,000 001 Manhole 2.00 ea 12,500.00 /ea 25,000 001 Primary service duct bank 2-4" conduits (concrete encased) 840.00 If 135.00 /lf 113,400 001 Secondary service duct bank 4000A feed (concrete encased) 130.00 If 2,435.00 /lf 316,550 001 Generator service duct bank 1200A & 100A feed and control wiring (concrete encased) 130.00 If 695.00 /lf 90,350 001 Telecommunications service duct bank 4-4" 880.00 If 185.00 /lf 162,800 001 Telecommunications service duct bank 4-4" 880.00 If 185.00 /lf 162,800 001 Tch andhole 6.00 ea 1,500.00 /ea 9,000 001 Transformer pad and grounding 1.00 Is 3,000.00 /ls 3,500 001 Generator pad 1.00 Is		001	Electrical Site Distribution - Electrical Contractor				
001 Connections at manhole (electrical) 1.00 ea 10,000.00 /ea 10,000 001 Manhole 2.00 ea 12,500.00 /ea 25,000 001 Primary service duct bank 2-4" conduits (concrete encased) 840.00 If 135.00 /lf 113,400 001 Secondary service duct bank 4000A feed (concrete encased) 130.00 If 2,435.00 /lf 316,550 001 Generator service duct bank 1200A & 100A feed and control wiring (concrete encased) 130.00 If 695.00 /lf 90,350 001 Telecommunications service duct bank 4-4" 880.00 If 185.00 /lf 162,800 001 Tc handhole 6.00 ea 1,500.00 /ea 9,000 001 Transformer pad and grounding 1.00 Is 3,500.00 /ls 3,500 001 Generator pad 1.00 Is 3,000.00 /ls 3,000		001	Utility mounted transformer meter	1.00	ea	850.00 /ea	850
001Mannole2.00ea12,500.00/ea25,000001Primary service duct bank 2-4" conduits (concrete encased)840.00lf135.00/lf113,400001Secondary service duct bank 4000A feed (concrete encased)130.00lf2,435.00/lf316,550001Generator service duct bank 1200A & 100A feed and control wiring (concrete encased)130.00lf695.00/lf90,350001Telecommunications service duct bank 4-4" conduits (concrete encased)880.00lf185.00/lf162,800001TC handhole6.00ea1,500.00/ea9,000001Transformer pad and grounding1.00ls3,500.00/ls3,500001Site Liphting1.00ls3,000.00/ls3,00013,000		001	Connections at manhole (electrical)	1.00	ea	10,000.00 /ea	10,000
001Primary service duct bank 2-4" conduits840.00if135.00/if113,400(concrete encased)001Secondary service duct bank 4000A feed (concrete encased)130.00lf2,435.00/lf316,550001Generator service duct bank 1200A & 100A feed and control wiring (concrete encased)130.00lf695.00/lf90,350001Telecommunications service duct bank 4-4" conduits (concrete encased)880.00lf185.00/lf162,800001TC handhole6.00ea1,500.00/ea9,000001Transformer pad and grounding1.00ls3,500.00/ls3,500001Site Liphting1.00ls3,000.00/ls3,0001		001	Manhole	2.00	ea	12,500.00 /ea	25,000
(concrete encased)130.00If2,435.00//If316,550(concrete encased)001Generator service duct bank 1200A & 100A feed and control wiring (concrete encased)130.00If695.00//If90,350001Telecommunications service duct bank 4-4" conduits (concrete encased)880.00If185.00//If162,800001Tc handhole6.00ea1,500.00/ea9,000001Transformer pad and grounding1.00Is3,500.00/ls3,500001Site Lighting1.00Is3,000.00/ls3,0003,000		001	Primary service duct bank 2-4" conduits	840.00	IŤ	135.00 /lf	113,400
001Secondary service duct bank 4000A feed130.00if2,435.00/ii316,550(concrete encased)001Generator service duct bank 1200A & 100A feed130.00lf695.00/lf90,350001Telecommunications service duct bank 4-4"880.00lf185.00/lf162,800001Tc handhole6.00ea1,500.00/ea9,000001Transformer pad and grounding1.00ls3,500.00/ls3,500001Site Lighting1.00ls3,000.00/ls3,000		001	(concrete encased)	120.00	It	2 425 00 /lf	216 550
001Generator service duct bank 1200A & 100A feed and control wiring (concrete encased)130.00If695.00//f90,350001Telecommunications service duct bank 4-4" conduits (concrete encased)880.00If185.00//f162,800001TC handhole6.00ea1,500.00/ea9,000001Transformer pad and grounding1.00Is3,500.00/ls3,500001Site Lighting1.00Is3,000.00/ls3,000		001	Secondary service duct bank 4000A leed	130.00	п	2,435.00 /11	310,550
001Generator service duct bank 1200A & 100A feed130.00If695.0090,350and control wiring (concrete encased)001Telecommunications service duct bank 4-4"880.00If185.00//f162,800001TC handhole6.00ea1,500.00/ea9,000001Transformer pad and grounding1.00Is3,500.00/ls3,500001Generator pad1.00Is3,000.00/ls3,000001Site Lighting1.00Is3,000.00/ls3,000		004	(concrete encased)	400.00	14	COT 00 //f	00.050
001Telecommunications service duct bank 4-4"880.00lf185.00 /lf162,800001TC handhole6.00ea1,500.00 /ea9,000001Transformer pad and grounding1.00ls3,500.00 /ls3,500001Generator pad1.00ls3,000.00 /ls3,000001Site Lighting1.00ls3,000.00 /ls3,000		001	Generator service duct bank 1200A & 100A feed	130.00	п	695.00 /11	90,350
001 Telecommunications service duct bank 4-4 000.00 If 105.00 11 162,800 001 TC handhole 6.00 ea 1,500.00 /ea 9,000 001 Transformer pad and grounding 1.00 Is 3,500.00 /ls 3,500 001 Generator pad 1.00 Is 3,000.00 /ls 3,000 001 Site Lighting 1.00 Is 3,000.00 /ls 3,000		001	Telecommunications service duct bank 4.4"	000 00	If	195 00 /lf	160 000
001 TC handhole 6.00 ea 1,500.00 /ea 9,000 001 Transformer pad and grounding 1.00 ls 3,500.00 /ls 3,500 001 Generator pad 1.00 ls 3,000.00 /ls 3,000 001 Site Lighting Site Lighting 1.00 ls 3,000.00 1.00		001	conduits (concrete oncosed)	880.00	П	185.00 /11	162,800
001 Transformer pad and grounding 1.00 Is 3,500.00 //sa 9,000 001 Transformer pad and grounding 1.00 Is 3,500.00 /ls 3,500 001 Generator pad 1.00 Is 3,000.00 /ls 3,000 001 Site Lighting 1.00 Is 3,000.00 /ls 3,000		001	TC handhole	6 00	00	1 500 00 /00	0.000
001 Generator pad 1.00 Is 3,000.00 //s 3,000 001 Site Lighting 1.00 Is 3,000.00 /ls 3,000		001	Transformer pad and grounding	1 00	ca le	3 500 00 /ea	3,000
001 Site Lighting		001	Generator pad	1.00	ls	3,000.00 //s	3,000
		001	Site Lighting	1.00	.0	0,000.00 /10	0,000

2/8/2024

Fontaine Bros., Inc. ~ 510 Cottage Street Springfield, MA 01104 ~ T:413.781.2020 ~ www.fontainebros.com



						lotal	
Item		Description	Takeo	ff Qty		Unit Cost	Amount
22 0000 000							
33-0000.000	001	UTILITIES Turne 781 0		20 00	~~	2 500 00 /00	70.000
	001	Type ZSLZ	2	20.00	ea Io	2,500.00 /ea	6 400
	001		4	2.00	15	3,200.00 /ls	22,000
	001		4.00		IS	3,200.00 /is	32,000
	001	Circuitry Data has a set of successful to a	4,80	10.00	ea	18.00 /ea	86,400
	001	Pole base and grounding	4	40.00	ea	650.00 /ea	26,000
	001	EV Stations		7 00	laa	15,000,00, //00	105 000
	001	Site Demolition		1.00	100	13,000.00 //00	105,000
	001	Site Demolition and make acfe		1 00	le.	10,000,00 //a	10.000
	001			1.00	IS	/IS	10,000
		UTILITIES				7.869/st	1,070,250
		136,000.00 sf					
		G4010 Site Electrical Utilities				7.869/sf	1,070,250
		136,000.00 sf					
		D50 ELECTRICAL				68.557/sf	9,323,719
		126 000 00 of					
		130,000.00 \$1					
		D SERVICES				196.137/sf	26,674,644
		136.000.00 sf					
		,					
_							
<u> </u>					_		
E10			EQUIPMENT				
E1010			Commercial Equipment				
11-0000.000		EQUIPMENT					
	2	Food Service Equipment - Allowance		1.00	ls	650,000.00 /ls	650,000
		EQUIPMENT				4.779/sf	650,000
		126.000.00 of					
		130,000.00 SI					
		E1010 Commercial Equipment				4.779/sf	650,000
		136.000 00 sf					
		100,000.00 0.					



					Total	
Item		Description	Takeoff Qty		Unit Cost	Amount
E1060		Residential E	quipment			
44 0000 000		FOUNDMENT				
11-0000.000	00	EQUIPMENT	1 00	~~	1 500 00 /00	1 500
	00 80	Staff Poom Pofrigorator	1.00	ea	2,000,00 /ea	1,500
	80	Science Pron Poom Pofrigerator	3.00	6a	1 500 00 /ea	0,000
	80 80	Adult Living Pofrigorator	1.00	6a	1,500.00 /ea	4,500
	80	Life Science Fridge/Freezer	1.00	6a	1,500.00 /ea	1,500
	100	Microwayes	3.00	6a	500.00 /ea	1,500
	100	Dishwasher	1.00	ea	1 500.00 /ea	1,500
	100	Front Load Washer	1.00	ea	2 000 00 /ea	2 000
	100	Front Load Dryer	1.00	ea	2,000.00 /ea	2,000
	100	EQUIPMENT	1.00	ou	0.162/sf	22,000
		136,000.00 sf				
		E1060 Residential Equipment			0.162/sf	22,000
		136,000.00 sf				
F1000		Other Fruir				
E1090		Other Equipm	ient			
11-0000.000		EQUIPMENT				
	2	Kiln (Furnish & Install)	1.00	ea	16,500.00 /ea	16,500
	010	Rigging and Curtain System	1.00	allow	185,000.00 /allow	185,000
	10	Motorized Basketball Hoops, Winch, Connectors.	6.00	ea	12,500.00 /ea	75,000
	10	Motorized Divider Curtain in Gym	1.00	ea	20,000.00 /ea	20,000
	10	Volley Ball Equipment - Net	1.00	ls	10,000.00 /ls	10,000
	10	Volley Ball Equipment - Sleeves & Poles	1.00	ls	5,000.00 /ls	5,000
	38	Wall Pads - 6' tall x 2' wide, Fire Rated - Gym,	1,700.00	sf	38.50 /sf	65,450
	38	Interior Scoreboard w/Shot Clock	1 00	еа	15.000.00 /ea	15 000
	38	Wall Pads - Calming room Allowance (35lf/ea)	630.00	ea	40.00 /ea	25 200
	00	EQUIPMENT	000.00	ou	3.067/sf	417,150
		136,000.00 sf				
		E1090 Other Equipment			3.067/sf	417,150
		136,000.00 sf				
		E10 EQUIPMENT			8.008/sf	1,089,150
		136,000.00 sf				



					Total	
Item		Description	Takeoff Qty		Unit Cost	Amount
E20		FURNIS	SHINGS			
E2010		Fixed Furni	shings			
06-2000.000		FINISH CARPENTRY				
	2	General Office, Custom Desk	1.00	ls	23,000.00 /ls	23,000
	2	Stage Front / Proscenium, Allowance	1.00	ls	20,000.00 /ls	20,000
	2	Custom Display Cases	1.00	ls	20,000.00 /ls	20,000
	2	Solid Surface Benches	50.00	lf	300.00 /lf	15,000
	2	Solid Surface Counters	36.00	lf	298.00_/lf	10,728
		FINISH CARPENTRY			0.652/sf	88,728
		136,000.00 sf				
10-0000 000		SPECIAL TIES				
10 0000.000	20	Curtains & Track - Resting Area	3.00	ea	2.000.00 /ea	6.000
		SPECIALTIES			0.044/sf	6,000
		136,000.00 sf				
		3.00 Labor hours				
12-0000.000		FURNISHINGS				
	2	Window Shades	136,000.00	sf	0.70 /sf	95,200
	10	PLAM Countertops w/Backsplash	1,733.00	lf	115.00 /lf	199,295
	10	PLAM Base Cabinets	755.00	ea	860.00 /ea	649,300
	10	PLAM Cubbies	20.00	ea	1,180.00 /ea	23,600
	10	PLAM Tall / Teacher Cabinets	123.00	ea	1,725.00 /ea	212,175
	10	PLAM Wall Cabinets	368.00	ea	700.00 /ea	257,600
	10	Epoxy Peg Boards	20.00	ea	950.00 /ea	19,000
	10	Epoxy Tops w/Backsplash	512.00	lî If	340.00 /lf	174,080
	10	Mobile Workstations w/Enoxy Tons	232.00		240.00 /11	124 050
	10	Metal Grilles at Sills / Backsplash's (4" x 30")	322.00	ea ea	150.00 /ea	48 300
	001	Band / Music Storage Cabinets Allowance	1 00	ls	85,000,00 //s	85 000
	10	Telescopic Bleachers - Gymnasium	1.00	ls	175 000 00 /ls	175 000
	10	Band Room, Movable Bleachers - NIC				
		FURNISHINGS			15.618/sf	2,123,980
		136,000.00 sf				
		E2010 Fixed Furnishings			16.314/sf	2,218,708
		136.000.00 sf				

3.00 Labor hours



								Total	
ltem		Description			Takeoff Qty		Unit Cost		Amount
		E20 FURNISHINGS						16.314/sf	2,218,708
		136,000.00	sf						
		3.00	Labor hours						
		E EQUIPMENT	AND FURNIS	SHINGS				24.322/sf	3,307,858
		136,000.00	sf						
		3.00	Labor hours						
<u>F</u>									
F20				SELECTIVE	BUILDING DE	MOLITIO	N		
F2010				Building Demolitic	on				
02-0000.000	01 110	EXISTING CONDITIO Hazardous Material Ab Demolition of Existing I EXISTING CONDITI 136,000.00	NS & DEMO atement High School ONS & DEMO sf		125,000.00 125,000.00	sf sf		15.50 /sf <u>11.00</u> /sf 24.357/sf	1,937,500 <u>1,375,000</u> <i>3,312,500</i>
		F2010 Building Dem	olition					24.357/sf	3,312,500
		136,000.00	sf						
		F20 SELECTIVE BU		LITION				24.357/sf	3,312,500
		136,000.00	sf						
		F SPECIAL CON DEMOLITION	ISTRUCTIO	N AND				24.357/sf	3,312,500
		136,000.00	sf						



SITE PF Site Prepare	Takeoff Qty REPARATION ation 240.00 15.00 1.00	hrs	Unit Cost	Amount
SITE PF Site Prepara	Takeoff Qty REPARATION ation 240.00 15.00 1.00	hrs	Unit Cost	Amount
SITE PF Site Prepara	240.00 15.00	hrs		
Site Prepara	ation 240.00 15.00 1.00	hrs		
5	240.00 15.00 1.00	hrs	400 707 "	
3	240.00 15.00 1.00	hrs	400 707 "	
	240.00 15.00 1.00	hrs	400 707 "	
	15.00 1.00		130.707 /hrs	31,370
	1.00	mvs	1,596.004 /mvs	23,940
		ls	30,705.18 /ls	30,705
	500.00	lf	6.535 /lf	3,268
	1.00	ls	498,063.18 /ls	498,063
ng	1.00	ls	13,896.25 /ls	13,896
ance	120.00	sy	62.052 /sy	7,446
	4,400.00	lf	4.499 /lf	19,796
ain	12.00	mnth	423.876 /mnth	5,087
ve	4,400.00	lf	2.064 /lf	9,081
	4,400.00	lf	8.943 /lf	39,350
	35.00	ea	164.416 /ea	5,755
	558.00	су	64.666 /cy	36,083
	85,685.00	sf	0.179 /sf	15,326
	·		5.435/sf	739,165
sf				
n			5.435/sf	739,165
sf				
Site Demolit	tion & Relocations			
	1 00	ls	257 980 21 /ls	257 980
				257 980
			1.037/31	207,900
sf				
& Relocations			1.897/sf	257,980
sf				
Site Earthwo	ork			
	36,000.00	су	8.654 /cy	311,551
	36,000.00	су	3.247 /cy	116,893
D -	26			0/0/0
	108.30			2/8/20
-	n sf Site Demolit sf Site Earthwo Site Earthwo	n sf <u>Site Demolition & Relocations</u> 1.00 sf & Relocations sf <u>Site Earthwork</u> 36,000.00 36,000.00 36,000.00 Page 36	n sf <u>Site Demolition & Relocations</u> 1.00 ls sf <u>& Relocations</u> sf <u>Site Earthwork</u> <u>36,000.00 cy</u> <u>36,000.00 cy</u> Page 36	n 5.435/sf sf <u>Site Demolition & Relocations</u> 1.00 ls 257,980.21 /ls 1.897/sf sf <u>Site Earthwork</u> <u>36,000.00 cy</u> 8.654 /cy <u>36,000.00 cy</u> 3.247 /cy Page 36



						Total	
Item		Description		Takeoff Qty		Unit Cost	Amount
31-0000.000		EARTHWORK					
	10	Compaction - Cut & Lev	el On Site	36,000.00	су	1.885 /cy	67,858
	10	Fine Grade / Shape Pon	ds	10,100.00	sf	1.390 /sf	14,035
	10	Fine Grade Athletic Field	t	8,110.00	sy	1.789 /sy	14,506
	10	Fine Grade - Swales		500.00	sf	0.908 /sf	454
	10	Gravel Base Below Pavi	ng	17,956.00	sy	23.197 /sy	416,527
	10	Gravel Base Below Bask	ketball Court	657.00	sy	23.197 /sy	15,240
	10	Gravel Base Below Side	walk	18,097.00	sf	3.426 /sf	61,999
	10	Phasing - Allowance		1.00	ls	750,000.00 /ls	750,000
	10	Premium for Geotherma Sitework Support)	l System (Wells and	1.00	ls	2,000,000.000 /ls	2,000,000
		EARTHWORK				27.714/sf	3,769,063
		136,000.00	sf				
32-0000.000		EXTERIOR IMPROVEN	MENTS				
	10	Truck Surplus Soils (Ass	sumed Clean)	5,500.00	су	25.00 /cy	137,500
	10	Truck Surplus Soils, Pre	mium for Arsenic, RCS2	8,250.00	tons	52.00 /tons	429,000
		EXTERIOR IMPROVE	EMENTS			4.165/sf	566,500
		136,000.00	sf				
		G1030 Site Earthwork				31.879/sf	4,335,563
		136,000.00	sf				
		G10 SITE PREPARA	ΓΙΟΝ			39.211/sf	5.332.708
							-,,,
		136,000.00	sf				
G20			SITE I	MPROVEMENTS			
G2020			Parking Lo	ts			
22 0000 000			AENTS				
52-0000.000	25	Fine Grading - Driveway	//Parking	17 956 00	sv	1 651 /ev	20 6/6
	25 25	Grade Baskethall Court	/i arking	657 00	sy sv	9 177 /ev	29,040 6 020
	25	Grade Sidewalk		18 097 00	sv	1 321 /sv	23 903
	25	Asphalt Subcontractor		18,613.00	sv	40.217 /sv	748,550
	2	Vertical Granite Curb		8,755.00	lf	78.218 /lf	684,798
	2	Landscape curbing allow	vance	1.00	ls	48,155.27 /ls	48,155
	6	Line Painting		1.00	ls	27,517.31 /ls	27,517
		EXTERIOR IMPROVE	EMENTS			11.534/sf	1,568,599

136,000.00 sf



Item Description Takeoff Qty Unit Cost Amount G2020 Parking Lots 11:534/af 1:568.56 136,000.00 sf 136,000.00 sf 11:534/af 1:568.56 22:000.000 EXTERIOR IMPROVEMENTS 8:325.00 sf 20:000.67 20:000.67 30 Unit Paver Prep 8:325.00 sf 20:000.67 166.50 EXTERIOR IMPROVEMENTS 3:3061/af 416.22 136,000.00 sf 166.50 62030 Pedestrian Paving 3:061/af 416.22 136,000.00 sf 15:00 /af 645.37 62040 Site Development 22:000.000 sf 15:00 /af 645.37 645.37 62040 Site Docreate, Flakwork - Ramps & Sidewalks 43:025.00 sf 15:00 /af 645.37 6 Site Concreate, Vials & Flootings 136:00 cv 110:00 /cv 11:03 645.37 6 Site Concreate, Flakwork - Ramps & Sidewalks 43:025.00 sf 22:00:00 /af 63:00 7 Site Concreate, Flakwork - Ramps & Sidewalks 10:00 /cv 11:00 /cv 11:03 7 Site Concreate, Flakwork - Sidewalks 10:00 /cv						Total	
Item Description Takeon Gry Diff. Cost Annou G2020 Parking Lats 11.534/sf 1.584/sf 1.586.65 32-0000.000 EXTERIOR IMPROVEMENTS 30.00 /sf 249.75 30 Unit Paver Prep 8.325.00 sf 30.00 /sf 249.75 30 Unit Paver Prep 8.325.00 sf 20.00 /sf 166.55 2030 Pedestrian Paving 3.061/sf 416.22 136.000.00 sf 136.000.00 sf 136.000.00 sf 130.001/sf 416.22 32-0000.000 EXTERIOR IMPROVEMENTS Site Developement 22000 /sf 10.00 /sf 416.22 32-0000.00 sf 5 5 20.00 /sf 416.22 32-0000.00 sf 5 3.061/sf 416.22 32-0000.00 sf 5 3.061/sf 416.22 32-0000.00 sf 5.00 /sf 65.00 /sf 50.00 /sf 65.00 /sf	ltom		Description	Taka off Ohr		I Oldi	A maximt
G2020 Parking Lots 11.534/sf 1.584/sf 1.584/sf 136,000.00 sf G2030 Pedestrian Paving 32-0000.000 EXTERIOR IMPROVEMENTS 8.325.00 sf 30.00 /sf 249.75 30 Unit Paver Prep 8.325.00 sf 20.00 /sf 166.55 30 Unit Paver Prep 8.325.00 sf 20.00 /sf 416.25 136,000.00 sf 3.061/sf 416.25 136.000.00 sf 136.000 of G2040 Site Developement 3.061/sf 416.25 136.000 /sf 645.37 32-0000.000 EXTERIOR IMPROVEMENTS 3.061/sf 416.25 136.00 (y 110.00 /sf 645.37 32-0000.000 EXTERIOR IMPROVEMENTS 3.061/sf 416.25 136.00 (y 110.00 /sf 645.37 32-0000.000 stile Concrete, Flatwork 136.00 (y 110.00 /sf 645.37 6 Site Concrete, Re-Bar 15.00 /sf 65.00 /sf 15.00 /sf 645.37 6 Site Concrete, Re-Bar 10.00 is 227.000 ory 110.00 /sg	Item		Description	Такеоп Qty		Unit Cost	Amount
Image: constraint of the state state of the state of the state of the state of the sta			G2020 Parking Lots			11.534/sf	1,568,599
G2030 Pedestrian Paving 32-0000.000 EXTERIOR IMPROVEMENTS 30.00 /sf 249,75 30 Unit Paves Prep 8,325.00 sf 20.00 /sf 166,55 20000.000 sf 20.00 /sf 166,55 416,22 136,000.00 sf 3.061/sf 416,22 136,000.00 sf 416,22 22-0000.000 sf Site Developement 50000 50000			136,000.00 sf				
22:000 EXTERIOR IMPROVEMENTS 32:0000.000 EXTERIOR IMPROVEMENTS 30.00 /sf 249.75 30 Unit Pavers 6.325.00 sf 20.00 /sf 166.55 30 Unit Pavers 8.325.00 sf 20.00 /sf 166.55 30 Unit Pavers 8.325.00 sf 20.00 /sf 166.55 30 Unit Pavers 3.061/sf 416.25 136.000.00 sf G2030 Pedestrian Paving 3.061/sf 416.25 32:0000.00 sf G2040 Site Development 32:0000.00 sf 15.00 /sf 645.37 GSIte Concrete, Malls & Foolings, Forming 5.097.00 sfca 32.00 /sfca 163.10 GSIte Concrete, Riatwork 927.00 c v 110.00 fcv 14.96 6 Site Concrete, Riatwork 92.70 c v 110.00 fcs 163.10 GOUND of f 15.00 /sf 645.37 GSIte Concrete, Riatwork 92.70 c v 110.00 fcs 110.00 fcs 149.62 <td colspan="2</td> <td>00000</td> <td></td> <td>Dedection</td> <td></td> <td></td> <td></td> <td></td>	00000		Dedection				
32-000.000 EXTERIOR IMPROVEMENTS 8,325.00 sf 30.00 /sf 249.75 30 Unit Pavers Prep 8,325.00 sf 20.00 /sf 166.55 30 Unit Pavers Prep 8,325.00 sf 20.00 /sf 166.55 EXTERIOR IMPROVEMENTS 3.061/sf 416.25 G2030 Pedestrian Paving 3.061/sf 416.25 Site Concrete, Walls & Footings 136.00 sf Site Concrete, Walls & Footings 136.00 cv 110.00 /cv 14.96 Site Concrete, ReBar 15.00 is 50.000 /s 50.000 <td< td=""><td>G2030</td><td></td><td>Pedestrian F</td><td>aving</td><td></td><td></td><td></td></td<>	G2030		Pedestrian F	aving			
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30 Unit Paver Prep EXTERIOR IMPROVEMENTS 8.325.00 sf 20.00 /sf 166.55 136,000.00 sf 136,000.00 sf 3.061/sf 416.24 136,000.00 sf 3.061/sf 416.24 136,000.00 sf 3.061/sf 416.24 136,000.00 sf 5 3.061/sf 416.24 32-0000.000 EXTERIOR IMPROVEMENTS 5 5 5 5 6 Site Concrete, Vallas & Footings, Forming 5.097.00 sfca 32.00 /sfca 163.16 6 Site Concrete, Nallas & Footings, Forming 15.00 of sf 645.37 6 6 Site Concrete, Nallas & Footings, Forming 15.00 ton 3.500.00 fon 10.197 6 Site Concrete, Nallas & Footings 136.00 ton 3.500.00 fon 52.50 001 Exterior Score Board Allowance - Multi Field 1.00 is 50.000 fon 22.700 101 Field - NIC See Altemate 100 15 20.700.00 /s 20.700 101 Traffic Signs 4.000 ea 3.500.00 /ea 3.000.00 /a 30.00 20 </td <td></td> <td>30</td> <td>Unit Pavers</td> <td>8,325.00</td> <td>sf</td> <td>30.00 /sf</td> <td>249,750</td>		30	Unit Pavers	8,325.00	sf	30.00 /sf	249,750
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Construction Construction<		0	Site Concrete, Flatwork - Ramps & Sidewarks	43,025.00	SI	15.00 /SI 32.00 /sfca	040,375 163 104
6 Site Contrete, Name ar boungs 130.00 Cy 110.00 Cy 100.00 100.00 100.00		6	Site Concrete, Walls & Footings, Forming	136.00	Sica	110.00 /sica	14 060
6 Site Concrete, Re-Bar 15.00 50 160.00 160.00 01 Exterior Score Board Allowance - Multi Field 1.00 Is 50,000.00 //s 50,000 20 Turf Field - NIC See Alternate 700 Is 50,000.00 /ls 50,000 20 Rubber Play Surfacing @ Playground 1.00 Is 52,50 /ea 9,000 001 Traffic Signs 40.00 ea 225,00 /ea 9,000 001 Entry Signs, Allow 2.00 ea 15,000.00 /ea 30,000 001 Bollards - utility 15.00 ea 2,063,797 /ea 30,900 001 Bollards - stainless steel 6.00 ea 4,127,597 /ea 24,760 001 Trash receptacles 5.00 ea 3,500.00 /ea 1,500 001 Bike racks 25.00 ea 3,500.00 /ea 1,500 001 Bike racks 25.00 ea 150,000		6	Site Concrete, Flatwork	927.00	CV	110.00 /cy	101 970
Other Exterior Score Board Allowance - Multi Field 1.00 Is 50,000.00 /ls 50,00 20 Turf Field - NIC See Alternate 70		6	Site Concrete, Re-Bar	15.00	ton	3 500 00 /ton	52 500
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001 Traffic Signs 40.00 ea 225.00 /ea 9,00 001 Entry Signs, Allow 2.00 ea 15,000.00 /ea 30,00 001 Basket Ball Hoops 6.00 ea 8,500.00 /ea 51,00 001 Bollards - stainless steel 6.00 ea 4,127,597 /ea 24,76 001 Trash receptacles 5.00 ea 3,500.00 /ea 15,00 001 Flagpole - 40' Ht. 1.00 ea 15,000.00 /ea 15,00 001 Bike racks 25.00 ea 3,500.00 /ea 15,00 001 Bike racks 25.00 ea 350.00 /ea 8,75 001 Bike racks 25.00 ea 10,000.00 /ea 15,00 001 Bioretention Boardwalk, Allowance 1.00 ea 150,000.00 /ea 150,00 001 Play Ground Equipment - Allowance 1.00 Is 400,000.00 /is<		20	Rubber Play Surfacing @ Playground	1.00	ls	227,000.00 /ls	227,000
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001 Basket Ball Hoops 6.00 ea 8,500.00 /ea 51,00 001 Bollards - utility 15.00 ea 2,063.797 /ea 30,95 001 Bollards - stainless steel 6.00 ea 4,127.597 /ea 24,76 001 Trash receptacles 5.00 ea 3,500.00 /ea 17,50 001 Flagpole - 40' Ht. 1.00 ea 15,000.00 /ea 15,00 001 Bike racks 25.00 ea 350.00 /ea 8,750 001 Shade Structure Allowance 3.00 ea 10,000.00 /ea 30,00 001 Bioretention Boardwalk, Allowance 1.00 ea 150,000.00 /ea 30,00 001 Bioretention Boardwalk, Allowance 1.00 ea 150,000.00 /ea 150,00 001 Play Ground Equipment - Allowance 1.00 is 400,000.00 /is 400,00 001 Play Ground Equipment at playground 400.00 if 75.00 /lf 30,00 002 4' Ht - Chain link fence at playground 300.00 if 75.00 /lf 150,00 003		001	Entry Signs, Allow	2.00	ea	15,000.00 /ea	30,000
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001 Bollards - stainless steel 6.00 ea 4,127.597 /ea 24,76 001 Trash receptacles 5.00 ea 3,500.00 /ea 17,50 001 Flagpole - 40' Ht. 1.00 ea 15,000.00 /ea 15,00 001 Bike racks 25.00 ea 350.00 /ea 8,75 001 Shade Structure Allowance 3.00 ea 10,000.00 /ea 30,00 001 Bioretention Boardwalk, Allowance 1.00 ea 150,000.00 /ea 30,00 001 Bioretention Boardwalk, Allowance 1.00 ea 150,000.00 /ea 150,000 001 Play Ground Equipment - Allowance 1.00 ls 400,000.000 /ls 400,00 20 4' Ht - Chain link fence at playground 400.00 lf 75.00 /lf 30,00 20 4' Ht - Chain link fence at outdoor classroom 320.00 lf 75.00 /lf 19,37 20 4' Ht - Chain link fence at generator 155.00 lf 125.00 /lf 19,37 20 <td< td=""><td></td><td>001</td><td>Bollards - utility</td><td>15.00</td><td>ea</td><td>2,063.797 /ea</td><td>30,957</td></td<>		001	Bollards - utility	15.00	ea	2,063.797 /ea	30,957
001 Trash receptacles 5.00 ea 3,500.00 /ea 17,50 001 Flagpole - 40' Ht. 1.00 ea 15,000.00 /ea 15,00 001 Bike racks 25.00 ea 350.00 /ea 8,75 001 Shade Structure Allowance 3.00 ea 10,000.00 /ea 30,00 001 Bioretention Boardwalk, Allowance 1.00 ea 150,000.00 /ea 30,00 001 Bioretention Boardwalk, Allowance 1.00 ea 150,000.00 /ea 150,00 001 Play Ground Equipment - Allowance 1.00 is 400,000.000 /ls 400,00 001 Play Ground Equipment - Allowance 1.00 is 400,000.00 /ls 400,00 20 4' Ht - Chain link fence at playground 400.00 if 75.00 /if 72,00 20 4' Ht - Chain link fence at outdoor classroom 320.00 if 75.00 /if 19,37 20 20' W - Vehicular Gate at Back Exit		001	Bollards - stainless steel	6.00	ea	4,127.597 /ea	24,766
001 Flagpole - 40' Ht. 1.00 ea 15,000.00 /ea 15,00 001 Bike racks 25.00 ea 350.00 /ea 8,75 001 Shade Structure Allowance 3.00 ea 10,000.00 /ea 30,00 001 Bioretention Boardwalk, Allowance 1.00 ea 150,000.00 /ea 30,00 001 Bioretention Boardwalk, Allowance 1.00 ea 150,000.00 /ea 150,00 001 Play Ground Equipment - Allowance 1.00 ea 150,000.00 /ea 150,00 001 Play Ground Equipment - Allowance 1.00 ls 400,000.000 /ls 400,00 20 4' Ht - Chain link fence at playground 400.00 lf 75.00 /lf 30,00 20 4' Ht - Chain link fence at outdoor classroom 320.00 lf 75.00 /lf 24,00 20 4' Ht - Mechanical screen at generator 155.00 lf 125.00 /lf 19,37 20 20' W - Vehicular Gate at Back Exit 1.00 ls 6,000.00 /ls 6,00 20 Pedestrian Guardrail @ Loading Dock, 2 Line 1.00 ls 21,		001	Trash receptacles	5.00	ea	3,500.00 /ea	17,500
001 Bike racks 25.00 ea 350.00 /ea 8,75 001 Shade Structure Allowance 3.00 ea 10,000.00 /ea 30,00 001 Bioretention Boardwalk, Allowance 1.00 ea 150,000.00 /ea 150,000 001 Play Ground Equipment - Allowance 1.00 ls 400,000.000 /ls 400,000 20 4' Ht - Chain link fence at playground 400.00 lf 75.00 /lf 30,00 20 4' Ht - Chain link fence at field perimeter 1,200.00 lf 60.00 /lf 72,00 20 4' Ht - Chain link fence at outdoor classroom 320.00 lf 75.00 /lf 24,00 20 4' Ht - Mechanical screen at generator 155.00 lf 125.00 /lf 19,37 20 20' W - Vehicular Gate at Back Exit 1.00 ls 6,000.00 /ls 6,000 20 Pedestrian Guardrail @ Loading Dock, 2 Line 1.00 ls 21,000.00 /ls 21,000 <td></td> <td>001</td> <td>Flagpole - 40' Ht.</td> <td>1.00</td> <td>ea</td> <td>15,000.00 /ea</td> <td>15,000</td>		001	Flagpole - 40' Ht.	1.00	ea	15,000.00 /ea	15,000
001 Shade Structure Allowance 3.00 ea 10,000.00 /ea 30,00 001 Bioretention Boardwalk, Allowance 1.00 ea 150,000.00 /ea 150,00 001 Play Ground Equipment - Allowance 1.00 ls 400,000.000 /ls 400,00 20 4' Ht - Chain link fence at playground 400.00 lf 75.00 /lf 30,00 20 4' Ht - Chain link fence at field perimeter 1,200.00 lf 60.00 /lf 72,00 20 4' Ht - Chain link fence at outdoor classroom 320.00 lf 75.00 /lf 24,00 20 4' Ht - Mechanical screen at generator 155.00 lf 125.00 /lf 19,37 20 8' Ht - Mechanical screen at generator 155.00 lf 125.00 /lf 19,37 20 20' W - Vehicular Gate at Back Exit 1.00 ls 6,000.00 /ls 6,000 20 Pedestrian Guardrail @ Loading Dock, 2 Line 1.00 ls 21,000.00 /ls 21,000 20 Replace Existing Fence - 50% Allowance 1.00		001	Bike racks	25.00	ea	350.00 /ea	8,750
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1001 Play Ground Equipment - Allowance 1.00 is 400,000.000 /ls 400,00 20 4' Ht - Chain link fence at playground 400.00 lf 75.00 /lf 30,00 20 4' Ht - Chain link fence at field perimeter 1,200.00 lf 60.000 /lf 72,00 20 4' Ht - Chain link fence at outdoor classroom 320.00 lf 75.00 /lf 24,00 20 4' Ht - Chain link fence at outdoor classroom 320.00 lf 75.00 /lf 24,00 20 8' Ht - Mechanical screen at generator 155.00 lf 125.00 /lf 19,37 20 20' W - Vehicular Gate at Back Exit 1.00 ls 6,000.00 /ls 6,000 20 Pedestrian Guardrail @ Loading Dock, 2 Line 1.00 ls 21,000.00 /ls 21,000 20 Replace Existing Fence - 50% Allowance 1.00 ls 120,000.00 /ls 120,000		001	Bioretention Boardwalk, Allowance	1.00	ea	150,000.00 /ea	150,000
20 4 Hi - Chain link fence at playground 400.00 fit 75.00 /lit 30,00 20 4' Ht - Chain link fence at field perimeter 1,200.00 lf 60.00 /lf 72,00 20 4' Ht - Chain link fence at outdoor classroom 320.00 lf 75.00 /lf 24,00 20 8' Ht - Mechanical screen at generator 155.00 lf 125.00 /lf 19,37 20 20' W - Vehicular Gate at Back Exit 1.00 ls 6,000.00 /ls 6,000 20 Pedestrian Guardrail @ Loading Dock, 2 Line Railing 1.00 ls 120,000.00 /ls 21,000 20 Replace Existing Fence - 50% Allowance 1.00 ls 120,000.00 /ls 120,000		001	Play Ground Equipment - Allowance	1.00	IS Ir	400,000.000 /Is	400,000
20 4 Th - Chain link fence at outdoor classroom 320.00 ii 60.00 //i 72,00 20 4' Ht - Chain link fence at outdoor classroom 320.00 lf 75.00 /lf 24,00 20 8' Ht - Mechanical screen at generator 155.00 lf 125.00 /lf 19,37 20 20' W - Vehicular Gate at Back Exit 1.00 ls 6,000.00 /ls 6,000 20 Pedestrian Guardrail @ Loading Dock, 2 Line 1.00 ls 21,000.00 /ls 21,00 20 Replace Existing Fence - 50% Allowance 1.00 ls 120,000.00 /ls 120,000		20	4 mi - Chain link fence at playground	400.00	ll If	75.00 /II 60.00 /If	30,000
20 8' Ht - Mechanical screen at generator 155.00 If 125.00 11 19,37 20 8' Ht - Mechanical screen at generator 155.00 If 125.00 19,37 20 20' W - Vehicular Gate at Back Exit 1.00 Is 6,000.00 /Is 6,00 20 Pedestrian Guardrail @ Loading Dock, 2 Line 1.00 Is 21,000.00 /Is 21,000 20 Replace Existing Fence - 50% Allowance 1.00 Is 120,000.00 /Is 120,000		20	4' Ht - Chain link fence at outdoor classroom	1,200.00 320 00	lf	75 00 /lf	24 000
20 20' W - Vehicular Gate at Back Exit 1.00 ls 6,000.00 /ls 6,00 20 20' W - Vehicular Gate at Back Exit 1.00 ls 20,000.00 /ls 6,00 20 Pedestrian Guardrail @ Loading Dock, 2 Line 1.00 ls 21,000.00 /ls 21,00 Railing 20 Replace Existing Fence - 50% Allowance 1.00 ls 120,000.00 /ls 120,000		20	8' Ht - Mechanical screen at generator	155 00	lf	125 00 /lf	10 275
20 Pedestrian Guardrail @ Loading Dock, 2 Line 1.00 Is 21,000.00 /Is 21,00 20 Railing 20 Replace Existing Fence - 50% Allowance 1.00 Is 120,000.00 /Is 120,000		20	20'W - Vehicular Gate at Back Exit	1 00	ls	6 000 00 /ls	6 000
20 Replace Existing Fence - 50% Allowance 1.00 ls 120,000.00 /ls 120,000		20	Pedestrian Guardrail @ Loading Dock, 2 Line Railing	1.00	ls	21,000.00 /ls	21,000
		20	Replace Existing Fence - 50% Allowance	1.00	ls	120,000.00 /ls	120,000



					Total	
ltem		Description	Takeoff Otv		Unit Cost	Amount
item		Description	Takeon Qty		onitoost	Amount
32-0000.000		EXTERIOR IMPROVEMENTS				
	30	Landscaping Misc. Seat Walls & Raised Planters	1.00	ls	275,000.00 /ls	275,000
		EXTERIOR IMPROVEMENTS			19.039/sf	2,589,257
		136,000.00 sf				
		G2040 Site Developement			19.039/sf	2,589,257
		136,000.00 sf				
G2050		Landscaping				
22 0000 000						
32-0000.000	2	Irrigation Systems Field	1.00	le		125 000
	2	Irrigation Systems - Temp irrigation Planting	77 000 00	sf	1.30 /sf	100 100
	-	Beds / Lawns	11,000.00	01	1.00 /01	100,100
	2	Irrigation Systems - Drip Strips at Plantings	1.00	ls	50.000.00 /ls	50.000
	25	Mulching	66,200.00	sf	1.25 /sf	82,750
	10	Strip & Stockpile Topsoil	20,000.00	су	11.005 /cy	220,091
	10	Screen Topsoil	18,500.00	cy	17.894 /cy	331,031
	10	Export Tailings	4,000.00	cy	11.929 /cy	47,716
	10	Ammend and Place Topsoil	12,000.00	cy	25.00 /cy	300,000
	10	Bioretention Soils / Rain Garden	10,000.00	sf	11.929 /sf	119,290
	10	Import Topsoil	2,377.00	су	60.19 /cy	143,072
	10	Replace Topsoil - On Site	2,377.00	су	13.73 /cy	32,636
	10	Disposal of Top Soil RCS2	6,000.00	cy	60.00 /cy	360,000
	5	Lawn and Planting Maintenance	1.00	ls	15,000.00 /ls	15,000
	5	High use lawn seed / SOD at Field	190,300.00	sf	1.20 /sf	228,360
	5	Gravel Maintenance Edging (Including Steel	3,200.00	sf	25.00 /sf	80,000
	5	Finegrade & Sod - Fields	77.000.00	sf	1.85 /sf	142.450
	120	Shade Trees	190.00	ea	2.000.00 /ea	380,000
	120	Flowering Trees	8.00	ea	900.00 /ea	7.200
	120	Coniferous Trees	20.00	ea	1.000.00 /ea	20.000
	120	Shrubs	1.225.00	ea	78.00 /ea	95,550
	120	Perennials	14.000.00	ea	18.00 /ea	252,000
	120	Landscaping VE Goal	-1.00	ls	226.000.00 /ls	(226.000)
		EXTERIOR IMPROVEMENTS			21.369/sf	2,906,245
		136,000.00 sf				
		G2050 Landscaping			21.369/sf	2,906,245

136,000.00 sf



				Total		
Item	Description	Takeoff Qty		Unit Cost	Amount	
	G20 SITE IMPROVEMENTS			55.003/sf	7,480,351	
	136,000.00 sf					
G30		SITE MECHANICAL UTILIT	IES			
G3010		Water Supply				
33-0000.000	UTILITIES					
c 4	4" DIP Water	90.00	lf	110.826 /lf	9,974	
c 4	6" DIP Water	160.00	lf	99.681 /lf	15,949	
c 4	8" DIP Water	2,415.00	lf	53.948 /lf	130,284	
c 4	4" Valves & Fittings	1.00	ls	1,675.12 /ls	1,675	
c 4	6" Valves & Fittings	1.00	ls	31,471.54 /ls	31,472	
c 4	8" Valves & Fittings	1.00	ls	19,167.170 /ls	19,167	
c 4	Water Main Testing - Air	2,656.00	lf	2.298 /lf	6,103	
c 4	Water Main Flushing	2,656.00	lf	2.064 /lf	5,481	
c 4	Water Main Clorination	2,656.00	lf	2.064 /lf	5,481	
	UTILITIES			1.659/sf	225,586	
	136,000.00 sf					
	G3010 Water Supply			1.659/sf	225,586	
	136,000.00 sf					
G3020		Sanitary Sewer				
33-0000 000						
33-0000.000	8 6" SDR-35 Sewer	52.00	lf	65 354 /lf	3 398	
	8 8" SDR-35	638.00	lf	91 591 /lf	58 435	
	8 Connect to Existing Sewer Manhole	2 00	ea	9 021 550 /ea	18 043	
	8 Sewer Manhole	3.00	ea	3 204 39 /ea	9 613	
	8 Grease Tran	1.00	ea	10.347.89 /ea	10.348	
	8 Set Frame & Cover	6.00	ea	1 622 145 /ea	9 733	
	8 Concrete Invert	3.00	ea	890 183 /ea	2 671	
	8 Sewer Main Testing - Air	640.00	lf	5 847 /lf	3 742	
	8 Sewer Main Testing - Mandrel	640.00	lf	3 894 /lf	2 492	
	8 Manhole Testing - Air	3.00	ea	316 447 /ea	949	
	UTILITIES	0.00	0u	0.878/sf	119,425	
	136,000.00 sf					
	G3020 Sanitary Sewer			0.878/sf	119,425	
	136,000.00 sf					



					Total		
Item		Description	Takeoff Qty		Unit Cost	Amount	
		G3020 Sanitary Sewer			0.878/sf	119,425	
		136,000.00 sf					
G3030			Storm Drainage System				
			Storm Bramago System				
33-0000.000		UTILITIES					
	12	12" HDPE	2,215.00	lf	71.820 /lf	159,082	
	12	18" HDPE	1,107.00	lf	59.781 /lf	66,178	
	12	24" HDPE Storm Sewer	1,107.00	lf	96.407 /lf	106,722	
	12	Field Underdrain	960.00	lf	34.974 /lf	33,576	
	12	Recharge System Chambers	0.00	ea			
	12	4' Diameter Catch Basin	33.00	ea	4,113.837 /ea	135,757	
	12	Drain Basin - Nyoplast	2.00	ea	4,877.17 /ea	9,754	
	12	4' Diameter Drain Manholes	28.00	ea	3,769.870 /ea	105,556	
	12	Water Quality Unit	3.00	ea	30,358.463 /ea	91,075	
	12	Set Frame & Grate / Cover	61.00	ea	1,088.187 /ea	102,979	
	12	Dirck Inven	20.00	ea	750.720 /ea	21,100	
	12	RIP-Rap / Stone Swale	200.00	sy	01.330 /Sy	12,207	
		UTILITIES			6.207/St	844,135	
		136,000.00 sf					
		G3030 Storm Drainage System			6.207/sf	844,135	
		136,000.00 sf					
		G30 SITE MECHANICAL UTILITIES	6		8.744/sf	1,189,146	
		136,000.00 sf					
G40			SITE ELECTRICAL UTILITI	IES			
G4020			Site Lighting				
22 0000 000							
33-0000.000	004	UTILITIES Flacture of Site Lighting Francesting 2	Ni4_				
	001	Electrical Site Lighting - Excavation - S	bite				
	004	Contractor Scope Below:	720.00	If	74 000 //f	E0 077	
	001	OG Electric Duct Bank 2-2.5	730.00	ll If	/ 1.339 /II	52,077	
	001	Sile Lighting	3,000.00	11	20.797/II 1.827.140/cc	80,391 51 011	
	001		30.00	ea	1,027.149/ea	54,814	
		UTILITIES			1.421/SI	193,282	
		136,000.00 sf					



			Tota	al
	Description	Takeoff Qty	Unit Cost	Amount
	G4020 Site Lighting		1.421/sf	193,282
	136,000.00 sf			
	G40 SITE ELECTRICAL UTILITIES		1.421/sf	193,282
	136,000.00 sf			
	G SITEWORK		104.379/sf	14,195,488
	136,000.00 sf			
	G	ENERAL REQUIREMENTS		
	Temp	orary Facilities and Controls		
10	PROJECT REQUIREMENTS	"		
10	Ribbon Cutting, etc) - GMP Allowance value to negotiated at time of GMP	n, be		
10	Debris Control, Removal and Dumpsters			
10	Winter Conditions (General)			
10	Temporary Electric Consumption			
10	Staging and Hoisting			
10	Safety Materials (guardrails, railing, etc.)			
10	Final Cleaning for Site and Building			
10	Temporary Enclosures			
10	Multi Vista / Open Space			
10	Field Engineering/Building Lavout			
10	Temporary Walkways (Parking)			
10	Interim Cleaning for Site and Building			
10	Safety Labor and Protection General			
10	Maintenence/Protection			
10	Temporary Toilets			
10				
10	Temporary Water and Sewer			
10 10 10	Temporary Water and Sewer Police Detail Allowance			
	10 10 10 10 10 10 10 10 10 10 10 10 10 1	Description G4020 Site Lighting 136,000.00 sf G40 SITE ELECTRICAL UTILITIES 136,000.00 sf G SITEWORK 136,000.00 sf G SITEWORK 136,000.00 sf G SITEWORK 136,000.00 sf G SITEWORK 136,000.00 sf G Carrenous G Carrenous 10 Ceremonial Costs (Groundbreaking, Topping OR Ribbon Cutting, etc.) - GMP Allowance value to negotiated at time of GMP 10 Ceremonial Costs (Groundbreaking, Topping OR Ribbon Cutting, etc.) - GMP Allowance value to negotiated at time of GMP 10 Debris Control, Removal and Dumpsters 10 Winter Conditions (General) 11 Temporary Electric Consumption 12 Safety Materials (guardrails, railing, etc.) 13 Safety Materials (guardrails, railing, etc.) 10 Final Cleaning for Site and Building 11 Temporary Enclosures 12 Multi Vista / Open Space 13 Field Engineering/Building Layout 14 Temporary Walkways (Parking) 15 Interim Cleaning for Site and Building 16 Jeandra drop Foretection 17 Temporary Walkways (Parking) 18 Interine Ce/Protection	Description Takeoff Qtg G4020 Site Lighting 136,000.00 sf G40 SITE ELECTRICAL UTILITIES 136,000.00 sf G SITEWORK 136,000.00 sf J 36,000.00 sf 5 J 36,000.00 sf 5 Mathematical Science Cerrence Description Statework J 36,000.00 sf 5 Description Cerrence Description Statework Description Statework	Description Takeoff Qty Unit Cost G4020 Site Lighting 1.421/sf 136,000.00 sf 1.421/sf G40 SITE ELECTRICAL UTILITIES 1.421/sf 136,000.00 sf 1.421/sf G SITEWORK 104.379/sf 136,000.00 sf 104.379/sf G SITEWORK 104.379/sf 136,000.00 sf 136,000.00 sf PROJECT REQUIREMENTS Temporary Facilities and Controls PROJECT REQUIREMENTS 10 Ceremonial Costs (Groundbreaking, Topping Off, Ribon Cuttrol, Removal and Dumpsters Nibbon Cuttrol, Removal and Dumpsters Numer Conditions (General) 10 Temporary Electric Consumption 10 Staging and Hoisting 10 Temporary Electric Consumption 11 Staging and Hoisting 12 Staging and Hoisting 13 Staging and Hoisting 13 Staging and Hoisting 14 Temporary Electric Consumption 15 Staging and Hoisting 16 Temporary Maneouse (Bardrails, Railing, etc.)



ltem			Total		
	Description	Takeoff Qty	Unit Cost	Amount	
	Z1050 Temporary Facilities and Controls			0	
	136,000.00 sf				
	Z10 GENERAL REQUIREMENTS			0	
	136,000.00 sf				
	Z GENERAL			0	
	136,000.00 sf				



Estimate Totals

Description _	Amount	Totals	Rate
Direct Cost	84,048,967	84,048,967	
Design Contingency	8,404,897		10.000 %
Escalation Construction Contingency	5,042,938 1,680,979		6.000 % 2.000 %
Subtotal	15,128,814	99,177,781	
Sub Default Insurance Proiect Requirements	1,239,722 4.425.600		1.250 %
GCs & GRs (Price Proposal)	7,169,858		
Preconstruction Fee (Price Proposal) _	12 925 190	112 012 061	
	12,035,100	112,012,901	
		112,012,961	
General Building Permit - Waived			
Subtotal		112,012,961	
CM Fee _	2,285,979		2.000 %
Subtotal	2,285,979	114,298,940	
Project GSF 136000			
Total		114,298,940	



Town of Clinton Clinton Middle School

Project name	Clinton Middle School - Alternates 100 W Boylston St. Clinton MA 01510
Architect	Lamoureux Pagano Associates
Document	SD - Alternates
Estimator	Fontaine Bros.
Job size	136000 sf



ALTERNATES	
Add Alternate 1 - Add PV Canopy Structure	\$ 917,900.00
Add Alternate 2 - Turf Field ILO Sod	\$ 1,016,119.00



					· · · · · · · · · · · · · · · · · · ·			
					Total			
ltem		Description	Takeoff Qty		Unit Cost	Amount		
ALT 1								
3-0000.000		CONCRETE						
03-0010.165	125	Concrete Foundations Concrete Material - Footings, Parking Canopy Concrete Foundations	1.00	ls	150,000.00_/ls 1.103/sf	<u> </u>		
		136,000.00 sf				,		
		CONCRETE			1.103/sf	150,000		
		136,000.00 sf						
5-0000.000		METALS						
95- <i>1200.110</i> a 01		Structural Steel Structural Steel - PV / Parking Canopy, Allow	67.00	tn	6,500.00 /tn	435,500		
a 01		Structural Steel - PV / Parking Canopy, Uplift Connectors	1.00	ls	15,000.00 /ls	15,000		
		Structural Steel			3.313/sf	450,500		
		136,000.00 sf						
05-5820.120	140	<i>Misc Steel</i> Misc Metals - PV / Parking Canopy	7,350.00	sf	2.00 /sf	14,700		
		Misc Steel			0.108/sf	14,700		
		136,000.00 sf						
		METALS			3.421/sf	465,200		
		136,000.00 sf						
9-0000.000		FINISHES						
09-9113.100	30	Painting- Exterior Paint Canopy Steel / Underside of Deck, Galv.	7,350.00	sf	2.10 /sf	15,435		
		Painting- Exterior	·		0.113/sf	15,435		
		136,000.00 sf						



				· · · · · · · · · · · · · · · · · · ·			
				Total	Total		
ltem	Description	Takeoff Qty		Unit Cost	Amount		
	FINISHES			0.113/sf	15,435		
	136,000.00 sf						
6-0000.000	ELECTRICAL						
26-0000.100	Electrical						
	2 PV Canopy Lighting Electrical	7,350.00	sf	6.00 /sf 0.324/sf	44,100 <i>44,100</i>		
	136,000.00 sf						
	ELECTRICAL			0.324/sf	44,100		
	136,000.00 sf						
31-0000 000	FARTHWORK						
31-2323.260	Excavation	1.00	le	75.000.00 //s	75 000		
	Excavation	1.00	13	0.551/sf	75,000		
	136,000.00 sf						
	EARTHWORK			0.551/sf	75,000		
	136,000.00 sf						
	ALT 1 PV Canopy Structure			5.513/sf	749,735		
					-,		
	136,000.00 ST						
<u>ALT 2</u>			_				
32-0000.000	EXTERIOR IMPROVEMENTS		-				
32-1313.100	Site Concrete						
	6 Turf Curb	4,500.00	sfca	35.00 /sfca	157,500		
	6 Turf Curb, Concrete	98.00	cy tor	110.00 /cy	10,780		
		∠.00	lon	3,300.00 /ton	7,000		



		Takeoff Qty		Total		
Item	Description			Unit Cost	Amount	
	Site Concrete			1.289/sf	175,280	
	136,000.00 sf					
32-1823.110	Athletic Surfacing / Turf Field 20 Turf Field (Including Drainage) Athletic Surfacing / Turf Field 136,000.00 sf	77,000.00	sf	/sf 6.228/sf	847,000 847,000	
32-8000.100	Irrigation Systems 2 Irrigation Systems @ Field Irrigation Systems 136,000.00 sf	-1.00	ls	50,000.00_/ls (0.368)/sf	(50,000) (50,000)	
32-9219.110	Lawns & Grasses 5 Finegrade & Sod - Fields Lawns & Grasses 136,000.00 sf	-77,000.00	sf	1.85_/sf (1.047)/sf	(142,450) (142,450)	
				6.102/sf	829,830	
	ALT 2 Turf Field			6.102/sf	829,830	



Estimate Totals

Description	Amount	Totals	Rate
Direct Cost	1,579,565	1,579,565	
Design Contingency Escalation Construction Contingency	157,957 102,672 31,591		10.000 % 6.500 % 2.000 %
Subtotal	292,220	1,871,785	
Subcontractor Default Insurance GCs & GRs (Price Proposal) Preconstruction Fee	23,694		
	23,694	1,895,479	
		1,895,479	
CM Fee	38,683		2.000 %
Subtotal	38,683	1,934,162	
Project GSF 136000			
Total		1,934,162	

4.1.2 SCHEMATIC DESIGN BINDER

- R. Updated Project Work Plan
 - 1. Updated Project Directory
 - 2. Roles & Responsibilities
 - Communications & Document Control Procedures
 - 4. Designer's Work Plan
 - 5. OPM Project Schedule
 - 6. CM Project Schedule

Schematic Design

OWNER

Town of Clinton Clinton Town Hall 242 Church Street Clinton, MA 01510

4.1.2 SCHEMATIC DESIGN BINDER

R. Updated Project Work Plan

1. Updated Project Directory

Michael Ward, Town Administrator Tel: (978) 365–4120 Email: <u>mward@clintonma.gov</u>

Sean Kerrigan, Selectman Tel: (978) 365–4120 Email: <u>skerrigan@clintonma.gov</u>

Bill McGrail, Co-Chair Finance Committee Tel: (978) 365-4110 Email: <u>wmcgrail@mmmrp.org</u>

Brian Farragher, Director of Facilities Facilities & Grounds Department Tel: (978) 365–4171 Email: <u>bfarragher@clintonma.gov</u>

Phil Duffy, Director Community & Economic Development Tel: (978) 365–4114 Email: pduffy@clintonma.gov

Angelica Arroyo, English Learners Parent Advis. Council Tel: (508) 615–7442 Email: angielinaa@gmail.com

Steven Meyer, Superintendent Tel: (978) 365-4200 c. 978-962-1431 Email: <u>smeyer@clinton.k12.ma.us</u>

Clinton Public Schools 150 School Street Clinton, MA 01510





Schematic Design

School Building Committee

4.1.2 SCHEMATIC DESIGN BINDER

R. Updated Project Work Plan

1. Updated Project Directory

Michael Ward, Town Administrator Tel: (978) 365–4120 Email: <u>mward@clintonma.gov</u> * PBC Voting member

Sean Kerrigan, Selectman Tel: (978) 365–4120 Email: <u>skerrigan@clintonma.gov</u>

Brendan Bailey, School Committee Chair Tel: (978) 365–4112, c (978) 809–8940 Email: <u>bbailey@clintonma.gov</u>

Matthew Varakis, School Comm. Vice-Chair Tel: (978) 365-4200 Email: <u>mvarakis@comcast.net</u>

Steven Meyer, Superintendent Tel: (978) 365-4200 c. 978-962-1431 Email: <u>smeyer@clinton.k12.ma.us</u> *PBC Voting member

Brian Farragher, Director of Facilities Facilities & Grounds Department Tel: (774) 261–0194 Email: bfarragher@clintonma.gov

Chris McGown, Chair of PBC & Head of DPW Tel: (978) 365–4110 Email: <u>cmcgown@clintonma.gov</u> *PBC Voting member

Jennifer LeMontagne, Principal Tel: (978) 365–4220 Email: <u>lemontagnej@clinton.k12.ma.us</u>

Shane McCarthy, Teacher Tel: (617) 833–2568 Email: <u>shanefmccarthy11@gmail.com</u>





Schematic Design

School Building Committee

4.1.2 SCHEMATIC DESIGN BINDER

R. Updated Project Work Plan

1. Updated Project Directory

Bill McGrail, Co-Chair Finance Committee Tel: (978) 365-5109 Email: wmcgrail@mmmrp.org

Chris Magliozzi, Vice-Chair of PBC Tel: (978) 368-1637 Email: <u>cmagliozzi@fbnconstruction.com</u> *PBC Voting member

Michael Moran, PBC Member Tel: (978) 368-0355 Email: <u>mjm@cmmoran.net</u> *PBC Voting member

Brian Delory, PBC Member Tel: (978) 857–7395 Email: <u>brian.delorey@gmail.com</u> *PBC Voting member

Timothy O'Toole, PBC Member Tel: (508) 328–1009 Email: <u>tim.otoole66@Gmail.com</u> *PBC Voting member

Phil Duffy, Director Community & Economic Development Tel: (978) 365–4114 Email: <u>pduffy@clintonma.gov</u>

Kelly Turcotte, Special Education Parent Advisory Council Tel: (508) 667–5452 Email: <u>Kellyturcotte7@gmail.com</u>

Laura Taylor, Prent-Teacher Association Tel: (781) 929-7178 Email: Taylorfamily01510@outlook.com

Angelica Arroyo, English Learners Parent Advisory Council



Schematic Design

4.1.2 SCHEMATIC DESIGN BINDER R. Updated Project Work Plan

1. Updated Project Directory

Tel: (508) 615-7442 Email: angielinaa@gmail.com

Courtney Harter, Principal Tel: (978) 365-4220

Shane McCarthy, Teacher Tel: (617) 833-2568

Email: harterc@clinton.k12.ma.us

Email: shanefmccarthy11@gmail.com

School Committee (separate from School Building Committee-listing Chair & Vice-

Clinton Middle School 100 West Boylston Street Clinton, MA 01510

OPM

40 Broad Street, Suite 500 Boston, MA 02109

Allison Sullivan, Project Coordinator Email: allison.sullivan@massschoolbuildings.org

Veatriki Dagkalakou, Project Manager Email: veatriki.dagkalakou@massschoolbuildings.org

Trip Elmore, Project Director Tel: (978) 914-5507 Email: telmore@doreandwhittier.com

Steve Brown, Sr. Project Manager Tel: (617) 947-5258 Email: sbrown@doreandwhittier.com

Mike Cox, Project Manager Tel: (781) 492-6289 Email: mcox@doreandwhittier.com





Dore + Whittier 260 Merrimac Street

MSBA

Building 7, 2nd Floor

Newburyport, MA 01950

Chair only)

Brendan Bailey, School Committee Chair Tel: (978) 365-4112, c (978) 809-8940 Email: bbailey@clintonma.gov

Matthew Varakis, School Comm. Vice-Chair Tel: (978) 365-4200 Email: mvarakis@comcast.net

Schematic Design

4.1.2 SCHEMATIC DESIGN BINDER

R. Updated Project Work Plan

1. Updated Project Directory

Elias Grijalva, Asst. Project Manager Tel: (603) 867–7977 Email: Egrijalva@doreandwhittier.com

Rachel Rincon, Asst. Project Manager Tel: (617) 650–3204 Email: <u>rrincon@doreandwhittier.com</u>

ARCHITECT

Lamoureux Pagano Assoc. | Architects 108 Grove Street Suite 300 Worcester, MA 01605 Eric D. Moore, AIA Principal–In–Charge & Laboratory Consultant Tel: (508) 752–2831 Fax: (508) 757–7769 Email: <u>emoore@lpaa.com</u>

Sean Brennan, AIA, Project Architect Email: <u>sbrennan@lpaa.com</u>

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Christina Bazelmans, AIA, LEED AP BD+C Ed Programming/Sustainable Design/Library Media Email: <u>cbazelmans@lpaa.com</u>

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Feasibility Study PSR

CONSULTANTS

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3.3.1 INTRODUCTION C. Updated Project Directory

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Site Surveying

Nitsch Engineering, Inc. 2 Center Plaza, Suite 430 Boston, MA 02108

Landscape Architecture Studio 2112 840 Summer Street, Suite 102 Boston, MA 02127

Educational Programming

New Vista Design 32 Sheridan Street, Suite 2 Jamaica Plain, MA 02130

Structural

Bolton & DiMartino Inc. 100 Grove Street Worcester, MA 01605

Fire Protection

Sensible Solutions 64 Knightly Road Hadley, MA 01035



Feasibility Study PSR

Plumbing Engineering & HVAC

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3.3.1 INTRODUCTION C. Updated Project Directory

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Alexander Bagnall, Principal – Theatrical Tel: (978) 443–7871 Email: ABagnall@cavtocci.com

Technology

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Electrical/Lighting, Data/Communications, Security

ART Engineering Corp. 38 Front Street, 3rd Flr Worcester, MA 01608 Azim Rawji, P.E. Principal Tel: (508) 797–0333 Fax: (508) 797–5130 Email: <u>azim@artengineering.us</u>

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Robbie Burnett Email: <u>rburnett@artengineering.us</u>

Kitchen/Food Service

Colburn & Guyette Consulting 100 Ledgewood Place, Suite 104 Rockland, MA 02370



Todd Guyette Tel: (781) 826–5522 Fax: (781) 826–5523 Email: <u>rtg@colburnguyette.com</u>



Sustainable Design

The Green Engineer

Concord, MA 01742

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Feasibility Study PSR

3.3.1 INTRODUCTION C. Updated Project Directory

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Carrie Havey, LEED AP, Project Manager Tel: (978) 369–8978 Email: carrie@greenengineer.com

Hazardous Materials

Universal Environmental Consultants 12 Brewster Road Framingham, MA 01702

Cost Estimating

A.M. Fogarty & Associates 175 Derby Street, Suite 5 Hingham, MA 02043

Specifications Consultant Architx

5 Topsy Drive Stafford Springs, CT 06076

Geotechnical

Lahlaf Geotechnical Consulting 23 McGuinness Way Billerica, MA 01821

GeoEnvironmental

Lord Environmental, Inc. 1506 Providence Highway – Suite 30 Norwood, MA 02062–4647

Accessibility/Code Consultant

RW Sullivan Engineering 529 Main Street, Suite 203 Boston, MA 02129



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Feasibility Study PSR

3.3.1 INTRODUCTION C. Updated Project Directory

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CONSTRUCTION MANAGER

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Feasibility Study PSR

3.3.1 INTRODUCTION

C. Updated Project Directory

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Chrisa Spedding, Director of Project Planning Tel: (413) 519–5154 Email: <u>cspedding@fontainebros.com</u>

Joel Kent, Chief Operating Officer Tel: (781) 291–9625 Email: jkent@fontainebros.com

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Clinton Middle School Module 5 and 6 Responsibility Matrix 02/23/2024

5.0 FUNDI	NG TH	HE PROJECT (MODULE 5)					
Responsibi	ility N	Natrix	OWNER	OPM	DESIGNER	CMAR	MSBA
5.0	Req	quirements		,			
	Α.	Total Project Budget		~			
	В.	Detailed Project Scope Description			\checkmark		
	C.	Signed Reimbursement Rate Certification	\checkmark	~			
	D.	Updated Project Schedule		\checkmark		\checkmark	
	E.	Project Cash Flow		\checkmark		\checkmark	
	F.	Project Site Information		~	✓	~	
	G.	Furnishings, Fixtures & Equipment List			\checkmark		
	н.	(2) Original Certifications for Project Scope & Budget	✓				
	L.	Copy of District Authorization Vote	~				
	L.	(3) Signed Project Scope and Budget Agreements	~				
	у. К	(2) Certifications by Legal Counsel for PEA	 ✓ 				
	к. 1	Copy of District Vote for DEA	1				
	L.	Copy of District vote for FTA	1				
	IVI.	Certified copies of all Local Funding votes	· · ·				
	IN.	No-Action Letters (If applicable)					
6.0 DETAIL	ED DI	ESIGN (MODULE 6)					
Responsib	ility N	Aatrix	OWNER	OPM	DESIGNER	CMAR	MSBA
		ODM Contract for Detailed Design	✓	√	DL0.0	U 1	11.00.
		Device a Contract for Detailed Design	1	.(-(
		Designer Contract for Detailed Design				./	
		CM contract for Construction Services	v	v	v	v	
6.0	Des	ign Development					, I
	Α.	Kick-Off Meeting	\checkmark	~	✓	\checkmark	
	В.	Preparation of Design Documents			\checkmark		
l	C.	Commissioning Agent Kick-Off Meeting	✓	\checkmark	✓	\checkmark	
	D.	Regulatory Meetings	\checkmark	~	✓	~	
	E.	Submission of NOI to Conservation Commission	\checkmark		✓		
	F,	Submission to Planning Board	~		~		
	с.	Cost Estimato			\checkmark	\checkmark	
	ю. 	Cost Estimate		1	1		
	н.	Value Engineering				v	I
	I.	Submission to MSBA		v	v		
MSBA	J.	MSBA Review & Comment		1	1		v
Keview	К.	Designer's Response to MSBA Comments		v	v		
	Con	struction Documents					
	A.	Preparation of Design Documents			\checkmark		
	R	Perulatory Meetings	√	\checkmark	1	\checkmark	
	ь. С	Regulatory integrings	1	1	1	1	
	ι. ~	Develop Final Site Phasing & Logistics Fians		1	1	1	
	D.	Develop Early Bid Packages (Site, Steel & Conrece)		· ·	· ·	· ·	
	Ε.	Develop Front End Procurement Language	V	V	V	V	
	F.	Constructability Review	l	~		V	
	G.	Cost Estimate - 60%			\checkmark	\checkmark	
	Н.	Value Engineering	\checkmark	~	~	\checkmark	
[Ι.	Submission to MSBA		\checkmark	\checkmark		
MSBA	J.	MSBA Review & Comment					✓
Review	к.	Designer's Response to MSBA Comments			\checkmark		
Responsibi	ility N	Aatrix	OWNER	OPM	DESIGNER	CMAR	MSBA
· ·		Structural and MEP Peer Review	•••	√	√		
	L. N/	Cast Estimate 000/			1	\checkmark	
	IVI.	Cost Estimate - 50%		.(.(
	N.	Value Engineering		•	•	v	
	0.	Submission to MSBA	I	V	V		
MSBA	Ρ.	MSBA Review & Comment					✓
Review	Q.	Designer's Response to MSBA Comments		\checkmark	\checkmark		
Γ							
	R.	Complete Bid Sets			✓		
	S.	Addenda			\checkmark		
	т	Did Trade Contractors	√	\checkmark	1	\checkmark	
	т. - ц	Bid Trade Contractors					
	υ.	Bid and De-scope subcontractors					1
				./			
	• • •		v		V V	v	



COMMUNICATIONS AND DOCUMENT CONTROL PROCEDURES

Effective communication between the various participants in a project is inherent to the success of a project's planning, design, and implementation phases. The lines of communication are numerous and must be clearly defined so that necessary information is identified, distributed, recorded, and appropriate action is taken. The OPM acts as the primary coordinator of a project and as such is the point of contact for most communications. In this capacity, it is the OPM's responsibility to ensure that information is forwarded to the appropriate parties and that any required follow-up action is overseen as needed.

A valuable resource for any project is a project directory, which can be created and distributed as appropriate. All participating entities will provide the OPM with their representative's name, title, and contact information which will be consolidated into the directory. If changes to this information are necessary, the updated information is provided to the OPM by the applicable party so that the project directory is always kept current.

So that communications are facilitated, and their efficacy maximized amongst the various project participants, a protocol of basic rules needs to be established, defined, and maintained. This protocol will enable a clear understanding and mutual agreement on the communication flow pertaining to the project. Outlined below is a diagram illustrating the appropriate and accepted communication flow between the primary parties involved in a particular project:



Two different types of communication are reflected in the above chart: "Primary" and "Secondary". Primary communications are defined as information provided and exchanged that is requisite to the contractual responsibilities of the project participants. Secondary communications are informal and focus on a specific topic that is most effectively communicated between the affected parties only. However, the Secondary communications shall be provided to other project participants as deemed appropriate or necessary.

In general, the protocol for the communication dynamic between various primary project participants should be as follows:

 MSBA & OWNER: All communications occur between the MSBA and Owner during the "Module 1: Eligibility Period" as no other project participants have been identified, including an OPM. Once an OPM has been selected for a project, the OPM acts as the primary conduit of communication between the MSBA and the Owner. The OPM will assist the Owner with all project-related issues throughout the project's duration.
- MSBA & OPM: The OPM is the initial contact for project-related communications being directed to the MSBA. In order that the MSBA's requirements and guidelines for a specific project to be met and communication flow to be maintained, the OPM and MSBA will communicate as required. The OPM will review all reports and requests directed to the MSBA prior to forwarding them. There are certain circumstances that will necessitate direct communication between the MSBA and the owner. These might include legal procedures such as, but not limited to, all agreements, funding certifications, and formal review comments and/or concerns. However, the OPM will be copied on all such communications.
- MSBA & Designer: Once the Designer is chosen by the MSBA Designer Selection Panel, communications from the MSBA to the Designer, and conversely from the Designer to the MSBA, shall be directed through the OPM.
- **Owner & OPM:** The OPM acts as the primary agent for the project and all project-related issues. As such, the OPM provides the required technical and procedural advice with respect to coordinating the different aspects of the project. Therefore, it is imperative that all communications both to and from the Owner be directed through the OPM. In the event that independent secondary communication between personnel from the School District and other parties assigned to the project bypasses the OPM, such communications shall be recorded and provided to the OPM for record and any requisite follow-up.
- **Owner & Designer:** All contractual and service-related issues pertaining to the Designer shall be communicated through the OPM. However, if secondary communications are necessary without requiring the OPM's presence or involvement, then such communications shall be recorded by the Designer and provided to the OPM.
- **OPM & Designer:** Formal communications from the Designer to the Owner and/or MSBA shall be directed through the OPM. If it is determined that the OPM's direct involvement is not necessary to any informal or other working communications with other parties, the Designer shall provide to the OPM a record and informational copy of any such communication.
- **OPM & Contractor:** A contractor's request for Owner approvals and other coordination issues will be communicated to the Owner via the OPM, acting as the Owner's representative.
- **Designer & Design Sub-Consultants:** All communications with Design Sub-Consultants, working under the Designer's contractual obligations, will only be through the Designer.
- **Designer & Contractor:** The OPM is the contact for all contractual communications between the Designer and Contractor. Detailed communications may be exchanged directly through the Designer and Contractor without the OPM's intervention, but all such communications will be recorded and forwarded to the OPM.
- **Contractor & Construction Sub-Contractors:** All communications with the Construction Contractor's Sub-Contractors will only be through the Contractor and do not require the OPM's involvement.

Supplementing the above communication protocol is the aforementioned "project directory". As defined, the project directory will include the parties listed above by organization, firm, or institution and the specific individuals representing them on the indicated project.

Document Control Protocols

A large volume of documentation is necessarily generated by a project. Each party participating in a project contributes to the creation, maintenance, and distribution of documentation relative to their involvement. The matrix on the following pages identifies the key documentation, roles, and responsibilities of the primary project participants. The roles and responsibilities are specific to the OPM, Designer, Contractor, Owner, and MSBA are listed by project phase as defined in the MSBA sequence procedures.

The function of the matrix is to both provide clarification and to avoid confusion as to the roles and responsibilities of those involved in a particular task or generation of the associated documentation respective to a particular sequence or phase of a project.

MSBA Module 4 Schematic Design

4.1.2 SCHEMATIC DESIGN BINDER

R. Updated Project Work Plan

4. Designer's Work Plan

- School Building Committee Vote on Schematic Design Submission | February 20, 2024
- Schematic Design MSBA Submission | February 23, 2024
- MSBA Board Meeting and Vote to approve Schematic Design | April 24, 2024
- Project Scope and Budget conference with MSBA | March April, 2024
- Local Project Funding Authorization | June 2024
- Design Development Submission to MSBA | October 2024
- 60% CD Phase Submission to MSBA | February 2025
- 90% CD Phase Submission to MSBA | April 2025
- 100% CD Phase Submission | June 2025
- Trade Contractor Bidding Complete | July 2025





ID T	ask Name	Duration	Start	Finish	2023 2024 2025 2026 2027 2028	_
				1	1st Quarter 13rd Q	ter 4 \$/27 10
1 1	ISBA Module 2 - 7	1640 days	?Fri 8/5/22	Thu 11/16/28		
2	Mod 2 - Architect selection process	57 days	Fri 8/5/22	Mon 10/24/22	2	
14	Module 3 - Feasibility Study	181 days	Wed 12/21/22	Wed 8/30/23		
15	Preferred Design Program (PDP)	90 days	Wed 12/21/22	Tue 4/25/23		
16	MSBA Kick off meeting	1 day	Fri 1/6/23	Fri 1/6/23		
17	Introduction	5 days	Wed 12/21/22	Tue 12/27/22		
18	Educational Program	20 days	Wed 12/28/22	Tue 1/24/23		
19	Initial Space Summary	10 days	Wed 1/25/23	Tue 2/7/23		
20	Evaluation of exisitng conditions	15 days	Wed 2/8/23	Tue 2/28/23	▲	
21	Site development requirements	15 days	Wed 2/8/23	Tue 2/28/23		
22	Preliminary evaluation of Options	15 days	Wed 3/1/23	Tue 3/21/23		
23	Local actions and approvals	1 day	Wed 3/22/23	Wed 3/22/23		
24	Submit PDP to MSBA	4 days	Thu 3/23/23	Tue 3/28/23		
25	MSBA Review of PDP	20 days	Wed 3/29/23	Tue 4/25/23		
26	MSBA PDP review and Comment	15 days	Wed 3/29/23	Tue 4/18/23		
27	Respond to MSBA PDP Comments	5 days	Wed 4/19/23	Tue 4/25/23		
28	Preferred Schematic Report (PSR)	104 days	Fri 4/7/23	Wed 8/30/23		
29	Final evaluation of of alternatives	30 days	Fri 4/7/23	Thu 5/18/23		
30	Preferred solution	25 days	Fri 5/12/23	Thu 6/15/23		
31	Local action and approvals	7 days	Fri 6/16/23	Mon 6/26/23		
32	Submit PSR to MSBA	1 day	Tue 6/27/23	Tue 6/27/23		
33	MSBA Board Approval to proceed with schematic design 8/30/23	46 days	Wed 6/28/23	Wed 8/30/23		
34	MSBA staff review	20 days	Wed 6/28/23	Tue 7/25/23		
35	MSBA PSR review and comment	15 days	Wed 6/28/23	Tue 7/18/23		
36	Respond to MSBA PSR comments	5 days	Wed 7/19/23	Tue 7/25/23	5	
37	Facilities assessment subcommittee review	31 days	Wed 7/19/23	Wed 8/30/23		
38	FAS Mtg #1	1 day	Wed 7/19/23	Wed 7/19/23		
39	FAS Mtg #2 (if required)	1 day	Wed 8/2/23	Wed 8/2/23		
40	Respond to FAS comments	5 days	Thu 8/3/23	Wed 8/9/23		
41	MSBA Board Approval - 8-30-23	1 day	Wed 8/30/23	Wed 8/30/23		
42	Module 4 - Schematic Design	169 days	Fri 9/1/23	Wed 4/24/24		
43	MA Historical Com.	56 days	Fri 9/1/23	Fri 11/17/23		
44	Assemble documentation to submit PNF	30 days	Fri 9/1/23	Thu 10/12/23		
45	MHC review and response	26 davs	Fri 10/13/23	Fri 11/17/23		
46	Deed Registration	100 davs	Tue 8/1/23	Mon 12/18/23		
47	Update Site Survey	45 davs	Tue 8/1/23	Mon 10/2/23		
48	Compile Deed Information	40 davs	Tue 10/3/23	Mon 11/27/23		
49	Prepare DEED for Recording	10 davs	Tue 11/28/23	Mon 12/11/23		
50	Record DEED	5 days	Tue 12/12/23	Mon 12/18/23		
51	CM @ Risk Selection	77 davs	Tue 9/19/23	Wed 1/3/24		
52	SBC Meeting - Construction Delivery Method & Committee selection	1 day	Tue 9/19/23	Tue 9/19/23		
53	IG Application Process - If CM@R	50 dave	Wed 9/20/22	Tue 11/28/23		
54	Complete the IG Application Form	2 days	Wed 9/20/22	Fri 0/22/22		
54		1 day	Mon 9/25/22	Mon 9/25/23		
56	Max of 60 Day IG application Poviow Period	45 days	Tue 9/26/22	Mon 11/27/22		
57	IG Formal approval to proceed with the CM @ Risk Delivery Method	45 days	Tue 11/28/23	Tue 11/28/23		
58	CM@R Request For Qualifications (RFO)	40 davs	Wed 9/20/23	Tue 11/14/23		
						-
Project: Date: W	Clinton Middle School ed 2/21/24	Su Pr	ummary oject Summary	0	Inactive Milestone ◆ Duration-only E External Milestone ◆ Manual Progress Inactive Summary Image: Start-only Im	

Page 1

							Clir	nton Middle School Project Schedu	le							
ID .	Fask Name	Duration	Start	Finish	2023 1st Quarter 2nd Quarter 3rd (Quarter 4th Quarte	er 1st Quar	2024 ter 2nd Quarter 3rd Quarter 4th Quarter	1st Quarter 2nd Quarter	25 3rd Quarter 4th Quarter	r 1st Quarter 2nd Quart	2026 er 3rd Quarter 4th Qua	rter 1st Quarter 2nd C	2027 Juarter 3rd Quarter 4th Qu	arter 1st Quarter 2nd Quarter 3rd Qu	Jarter 4
59	Develop Draft CM@R Request For Qualifications (RFQ)	10 days	Wed 9/20/23	Tue 10/3/23	1/112/315/12/4/10/5/21/0/25//		92/1/1/21/2	/23/3/211/2/31/0/21//1440/10/3/2210/2112/	1/31/2/31/230	0/22 0/3 3/7 0/14 1/10	2/211/23 3/114/3 3/10	0/14///12/0/23/3/2/11/1	112/01/10/2/14/3/21/4/	313/30 7/4 0/0 3/1210/17	1/2 112/2017/2013/31 4/3 13/14/0/1017/2	10/2/11
60	Distribute Draft CM@R PreQ for Review & Approval by Selection Committee (SC)	1 day	Wed 10/4/23	Wed 10/4/23		F										
61	CM@R Prequalification Selection Committee meeting	1 day	Wed 10/11/23	Wed 10/11/23		+										
62	Run Central Register, COMBUYS & Local Ad for CM@R RFQ	5 days	Thu 10/5/23	Wed 10/11/23		F										
63	Issue CM@R RFQ	0 days	Wed 10/11/23	Wed 10/11/23		at 10/11	1									
64	CM@R Qualifications Due	1 day	Thu 11/2/23	Thu 11/2/23		4										
65	PreQ Committee reviews and ranks quals - shortlist 3 to 4 firms	5 days	Fri 11/3/23	Thu 11/9/23		X										
66	PBC/SBC Meeting - Nofication of Shortlisted Firm	1 day	Tue 11/14/23	Tue 11/14/23		+										
67	CM@R Proposal and selection Process	60 days	Thu 10/12/23	Wed 1/3/24		-	-									
68	Develop CM @ Risk RFP/Contracts/Schedule/Est. Requirements	13 days	Thu 10/12/23	Mon 10/30/23		-										
69	Local Council Review of RFP & Contracts	10 days	Tue 10/31/23	Mon 11/13/23		–										
70	Distribute CM@R RFP	1 day	Wed 11/15/23	Wed 11/15/23		ή ή										
71	CM Site Visit/Walk-Through	0 days	Wed 11/22/23	Wed 11/22/23		1 🕈	11/22									
72	CM Proposals Due	0 days	Mon 12/4/23	Mon 12/4/23			12/4									
73	CM selection committee review proposals	5 days	Tue 12/5/23	Mon 12/11/23		ľ										
74	CM Selection Committee Meets and scores proposals	1 day	Tue 12/12/23	Tue 12/12/23		Ā										
75	Issue Interview questions & order	1 day	Wed 12/13/23	Wed 12/13/23		F										
76	Interview CM Firms	2 days	Thu 12/21/23	Fri 12/22/23			ή									
77	Negotiate Contract and award CM Firm	7 days	Mon 12/25/23	Tue 1/2/24			<u>ъ</u>									
78	Award SD Estimating Purchase Order	1 day	Wed 1/3/24	Wed 1/3/24												
79	Module 4: SD Submission Development	171 days	Thu 8/31/23	Thu 4/25/24		1										
80	DESE Submittal Development	120 days	Thu 8/31/23	Wed 2/14/24		I										
81	Schematic Design Binder	85 days	Thu 8/31/23	Wed 12/27/23		I	•									
82	Schematic Design Project Manual	85 days	Thu 8/31/23	Wed 12/27/23												
83	Schematic Design Drawings	100 days	Thu 8/31/23	Wed 1/17/24			1									
84	Schematic Design Estimating	12 days	Thu 1/18/24	Fri 2/2/24												
85	SD Estimate Reconciliation & Budget	3 days	Fri 2/2/24	Tue 2/6/24			- ¶									
86	Local Actions and Approval	1 day	Tue 2/20/24	Tue 2/20/24												
07	Submit SD to MSBA	1 day	FII 2/23/24	FII 2/23/24			1									
00		25 udys	NAme 2/20/24	FII 3/23/24				_								
09	MSBA Staff review and comment	25 days	Mon 2/26/24	Fri 2/15/24												
01	Response to MSRA SD commonts	10 days	Mon 2/19/24	Eri 2/20/24				ļ								
92	Final submission review	1 day	Mon 4/1/24	Mon 4/1/24				1								
93	MSBA Board approval - April 24, 2024	1 day	Wed 4/24/24	Wed 4/24/24				↓								
94	MSBA Board Action Letter Issued	1 day	Thu 4/25/24	Thu 4/25/24												
95	DESE review and approval letter	4 davs	Mon 3/18/24	Thu 3/21/24												
96	Module 5 - Funding the Project	50 davs	Thu 4/25/24	Wed 7/3/24												
97	Project scope and budget agreement	10 days	Fri 4/26/24	Thu 5/9/24				m								
98	Total Project Budget & Exhibit Development	3 days	Fri 4/26/24	Tue 4/30/24				K								
99	Reimbursment rate - signed Certification	3 days	Wed 5/1/24	Fri 5/3/24												
100	Prerequisits to MSBA Execution of PS&B	3 days	Wed 5/1/24	Fri 5/3/24				ĥ								
101	Send MSBA PS&B Package for execution	2 days	Mon 5/6/24	Tue 5/7/24				5								
102	PS&B Executed	2 days	Wed 5/8/24	Thu 5/9/24				t -								
	Task	\$	ummary		Inactive Milestone	\$	Durat	tion-only	Start-only	c	External Milestone	\$	Manual Progress			
Project	: Clinton Middle School Split	P	Project Summary		Inactive Summary	1	-1 Manu	al Summary Rollup	Finish-only	3	Deadline	•				ļ
	Milestone 🔶	Ir	nactive Task		Manual Task		Manu	ual Summary	External Tasks		Progress					

					Clinton Middle School Project Schedule	
ID	Task Name	Duration	Start	Finish	2023 2024 2025 2026 2027 2026 2026	2028
103	Local Authorization for funding (120 days)	35 days	Thu 4/25/24	Wed 6/12/24		146/187/238/271/
103	preparation & Town meeting	29 days	Thu 4/25/24	Tue 6/4/24		
105	Ballot Vote for borrowing	1 day	Wed 6/5/24	Wed 6/5/24		
106	Local funding documentation	5 days	Thu 6/6/24	Wed 6/12/24		
107	Project Funding Agreement	11 days	Thu 6/13/24	Thu 6/27/24		
107	Project running Agreement	5 days	Thu 6/12/24	Wod 6/19/24		
100	Certification of legal council	5 days	Thu 6/12/24	Wed 6/19/24		
110	Certified vote copies	5 days	Thu 6/12/24	Wed 6/19/24		
111	Send MSRA REA package fre execution	1 day	Thu 6/20/24	Thu 6/20/24		
112	PEA Evecuted & returned to district	5 days	Eri 6/21/24	Thu 6/27/24		
112	Propay budget entered	J days	Eri 6/29/24	Wod 7/2/24		
114	Module 6 - Detailed Design*	4 uays	Fri 2/16/24	Tue 11/23/24		
115	Design Development (DD)	136 days	Tue 6/4/24	Tue 12/10/24		
116	Design Development	100 days	Thu 6/6/24	Wed 10/22/24		
117		1	Thu 10/24/24	Thu 10/24/24		
117	MSRA DD Review	1 day	Eri 10/25/24	Fri 11/22/24		
110	MISBA DD Review	ZI days	FIT 10/25/24	FII 11/22/24		
119	Address DD Review Comments	14 days	Wion 11/25/24	Thu 12/12/24		
120	60% Construction Documents	126 days	Thu 10/24/24	1 nu 4/1//25		
121	60% CD Development	90 days	Thu 10/24/24	wed 2/26/25		
122	60% CD Development Submission	1 day	Thu 2/2//25	Thu 2/2//25		
123	MSBA 60% CD Review	21 days	Fri 2/28/25	Fri 3/28/25		
124	Address 60% SD Review Comments	14 days	Wion 3/31/25	Thu 4/1//25		
125	Develop Early Release Package #1	60 days	Thu 1/23/25	Wed 4/16/25		
126	90% Construction Documents	76 days	Thu 2/27/25	Thu 6/12/25		
127	90% CD Development	40 days	Thu 2/2//25	Wed 4/23/25	·	
128	90% CD Development Submission	1 day	Thu 4/24/25	Thu 4/24/25		
129	MSBA 90% CD Review	21 days	Fri 4/25/25	Fri 5/23/25		
130	Address 90% SD Review Comments	14 days	Mon 5/26/25	Thu 6/12/25		
131	100% CD Complete	35 days	Fri 4/25/25	Thu 6/12/25		
132	Complete 100% Documents for Bidding	35 days	Fri 4/25/25	Thu 6/12/25		
133	Bidding	133 days	Fri 6/13/25	Tue 12/16/25	5	
134	Advertise & Bid Filed Trades	20 days	Fri 6/13/25	Thu 7/10/25		
135	Award Filed Trades - Notice to Proceed (NTP)	1 day	Fri 7/11/25	Fri 7/11/25		
136	Bid & Award Sub's & Develop and approve GMP	2 133 days	Fri 6/13/25	Tue 12/16/25	j	
137	Sustainable Design Milestones	983 days	Fri 2/16/24	Tue 11/23/27		
138	Project registration	1 day	Fri 2/16/24	Fri 2/16/24		
139	Provisional Review Submittal	1 day	Mon 12/15/25	5 Mon 12/15/25		
140	Final Review Submission	1 day	Tue 11/23/27	Tue 11/23/27		_
141	Module 7 - Construction	826 days	Thu 7/3/25	Thu 8/31/28		
142	Early Release Package #1 NTP to SS complete	152 days	Thu 7/3/25	Fri 1/30/26		
143	Balance of New Building Construction	450 days	Tue 8/26/25	Mon 5/17/27		
144	Bldg Completion Activity-Cx, Permits, Punchlist	45 days	Tue 5/18/27	Mon 7/19/27		
145	Temporary Occupancy Permit Issued	1 day	Tue 6/22/27	Tue 6/22/27		
146	Move-In	20 days	Tue 7/20/27	Mon 8/16/27		
147	Demo of Existing Building & site work	55 days	Mon 6/21/27	Fri 9/3/27		
148	Final Site work	213 days	Mon 9/6/27	Wed 6/28/28		-1
149	Fianl Completion - Substantially Complete	1 day	Thu 6/29/28	Thu 6/29/28		1
150	Final Occupancy Permit issued	1 day	Fri 6/30/28	Fri 6/30/28		Ţ
151	Final close-out documentation and training	46 days	Thu 6/29/28	Thu 8/31/28		
Droin-	t Clinton Middle School	S	iummary		Inactive Milestone 🔷 Duration-only 📧 😸 Start-only 🕻 External Milestone 🔷 Manual Progress	
Date: \	Ned 2/21/24 Split	Р	Project Summary	0	Inactive Summary Manual Summary Rollup Finish-only Deadline	
	Milestone 🔶	Ir	nactive Task		Manual Task Manual Summary External Tasks Progress	

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Page 1 of 21	Clinton Middle School: Proposal Schedule						
Activity ID	Activity Description	Orig.	Total	Start	Finish	Calendar	2024 2025
		Dur.	Fioat				ZUZ4 ZUZ4 ZUZ5 IDJFIMAMJIJASIQNDJIFMAMJIJASIQNDJIFMAM
Clinton Midd	le School: Proposal Schedule						
Milestones							
Contract Milesto	ones						
CMS-1000	RFP Schedule Start (Projected 12-05-23)	0	0	12/5/2023*		7D - No Hol (MS Cal)	RFP \$chedule Start (Projected 12-05-23)
CMS-1060	Notice to Proceed (NTP) w/Preconstruction Services	0	14	1/4/2024		7D - No Hol (MS Cal)	Notice to Proceed (NTP) w/Preconstruction Services
CMS-1040	Notice to Proceed (NTP) - Early Package (TBD)	0	34	7/3/2025		5D - Hol	♦ Notice to Proceed (NTP
CMS-1010	Building Substantial Completion (SC)	0	0		5/17/2027	7D - No Hol (MS Cal)	
CMS-1070	TCO / CO	0	0		5/17/2027	7D - No Hol (MS Cal)	
CMS-1030	Building Final Completion	0	373		8/24/2027	7D - No Hol (MS Cal)	
CMS-1050	Substantial Completion - Phase II Sitework	0	35		7/27/2028	7D - No Hol (MS Cal)	
CMS-1090	Final Contract Completion	0	0		8/31/2028	7D - No Hol (MS Cal)	
Preconstructio	n Estimate / Early Release Packages						
Construction Ma	anager Procurement						
PST-1260	Proposals Received	0	9	12/5/2023		5D - Hol	Proposals Received
PST-1270	Owner / Review Proposals & Conduct Interviews	7	9	12/5/2023	12/13/2023	5D - Hol	Owner / Review Proposals & Conduct Interviews
PST-1280	Selection Committee Evaluates CM Firms Based on Proposals & Interviews	5	9	12/14/2023	12/20/2023	5D - Hol	Selection Committee Evaluates CM Firms Based on Proposals & Inte
PST-1290	School Building Committee Approves Selection	1	9	12/21/2023	12/21/2023	5D - Hol	V School Building Committee Approves Selection
PST-1 300	Issue CM Notice of Award	1	9	12/22/2023	12/22/2023	5D - Hol	I Issue CM Notice of Award
PST-1370	CM Agreement Execute d	5	9	12/22/2023	12/29/2023	5D - Hol	CM Agreement Execute
PST-1 380	Issue CMR Notice to Proceed w/Preconstruction Services	3	9	1/2/2024	1/4/2024	5D - Hol	1 Issue CMR Notice to Proceed w/Preconstruction Services
Schematic Desig	gn Phase (SD)						
PST-1670	Produce Schematic Design Documents	30	0	12/5/2023	1/17/2024	5D - Hol	Produce Schematic Design Documents
PST-1680	Perform SD Cost Estimate	20	0	1/18/2024	2/14/2024	5D - Hol	Perform SD Cost Estimate
PST-1700	SD Estimate Reconciliation & VE	5	0	2/15/2024	2/21/2024	5D - Hol	SD Estimate Reconditiation & VE
PST-1710	Submit SD Reconciled Estimate	1	0	2/21/2024	2/21/2024	5D - Hol	X Submit SD Reconciled Estimate
PST-1690	Present SD Reconciled Estimate to Building Committee / Local Actions & Approvals	2	0	2/22/2024	2/23/2024	5D - Hol	Present SD Reconciled Estimate to Building Committee / Local
PST-1720	Submit SD to MSBA	1	0	2/26/2024	2/26/2024	5D - Hol	1 Submit SD to MSBA
PST-1730	MSBA Review SD Submission & Provide Comments	15	0	2/27/2024	3/18/2024	5D - Hol	MSBA Review SD Submission & Provide Comments
PST-1740	Prepare & Submit Final SD Submission to MSBA	10	0	3/19/2024	4/1/2024	5D - Hol	Prepare & Submit Final SID Submission to MSBA
PST-1750	MSBA Review & Approve SD Submission	17	0	4/2/2024	4/24/2024	5D - Hol	MSBA Re view & Approve SD Submission
Design & Implei	ment Community Information Campaign						
PST-1830	Form Subcommittee	15	0	3/5/2024	3/25/2024	5D - Hol	Form Subcommittee
PST-1840	ID Roles & Responsibilities	15	0	3/26/2024	4/15/2024	5D - Hol	ID Roles & Responsibilities
PST-1 850	Schedule Community Forums	15	0	4/16/2024	5/6/2024	5D - Hol	Schedule Community Forums
PST-1860	Author Informational Assets	18	0	5/7/2024	5/31/2024	5D - Hol	Author Informational Assets
Local Authoriza	ition						
PST-1760	Prepare for Local Authorization for Funding	28	0	4/24/2024	6/3/2024	5D - Hol	Prepare for Local Authorization for Funding
PST-1820	Town Meeting	1	3	5/28/2024*	5/28/2024	5D - Hol	I Town Meeting
PST-1810	Ballot Vote (06-03-24)	1	0	6/3/2024	6/3/2024	5D - Hol	Ballot Vote (06-03-24)
Design Develop	oment Phase (DD)						
PST-1 390	Produce Design Development Documents	99	0	6/4/2024	10/22/2024	5D - Hol	Produce Design Development Documents
PST-1400	Perform DD Cost Estimate	20	2	9/16/2024	10/11/2024	5D - Hol	Perform DD Cost Estimate
PST-1410	DD Estimate Reconciliation	4	2	10/14/2024	10/17/2024	5D - Hol	DD Estimate Reconciliation
PST-1420	CM Submit DD Reconciled Estimate	1	2	10/18/2024	10/18/2024	5D - Hol	I CM Submit DD Reconciled Estimate
PST-1770	Submit DD to MSBA	1	84	10/18/2024	10/18/2024	5D - Hol	I Submit DD to MSBA
PST-1780	MSBA Review DD Submission & Provide Comments	21	84	10/21/2024	11/18/2024	5D - Hol	MSBA Review DD Submission & Provide (
PST-1790	Prepare & Submit Final DD Submission to MSBA	12	84	11/19/2024	12/6/2024	5D - Hol	Prepare & Submit Final DD Submission t
PST-1800	MSBA Review & Approve DD Submission	14	84	12/9/2024	12/27/2024	5D - Hol	MSBA Re view & Approved DD Submissi
Construction Do	ocument Design Phase (CD)						
60% Constructio	on Documents		-	10/20/5	0/05/05 55		
PS1-1000	Produce 60% Construction Documents	86	0	10/23/2024	2/25/2025	5D - Hol	Produce 60% Construction Docum
PS1-1020	CM Perrom & Submit 60% CD Estimate	15	/1	12/20/2024	1/13/2025	5D - Hol	CM Perform & Submit 60% CD Estim
PS1-1180	60% CD Estimate Reconciliation	2	/1	1/14/2025	1/15/2025	5D - Hol	I 60% CD Estimate Reconciliation
PS1-1190	CIVI Submit 60% CD Reconciled Estimate	1	/1	1/16/2025	1/16/2025	5D - Hol	V CIVI Submit 60% CD Reconciled Estir



Actual Work Remaining Work Critical Remaining Work ٠ Milestone

Clinton Middle School: Proposal Schedule Fontaine Bros., Inc



Page 2 of 21	Clinton Middle School: Proposal Schedule									_					Data Date	12/5/2023
Activity ID	Activity Description	Orig.	Total	Start	Finish	Calendar		0004		0005	0000		0007	0000		0000
		Dur.	Float					2024 MAIMULIIAISION		2025 MAIMULUAISION						
PST-1150	Submit 60% Documents to MSBA	1	71	1/17/2025	1/17/2025	5D - Hol				ubmit 60% Documen	ts to MSBA					
PST-1060	MSBA Review 60% Documents & Provide Comments	21	71	1/20/2025	2/17/2025	5D - Hol				MSBA Review 60 %I	Documents & Provide	Comments	4	• • • • • • • • • • • • • • • • • • • •	•••••••••••••••••	
PST-1870	Address Comments & Submit Final 60% CD Submission to MSBA	14	71	2/18/2025	3/7/2025	5D - Hol	-///		//7/	Address Comment	s & Submit Final 60%	CD Submission	to MSBA			
Early Release Pa	ckage 1 - Switchgear/Panelboards & Load Centers > 400 Amps/ATS/ Generator										7///					
PST-1610	Early Release Package #1 - Documents Published	0	0	2/26/2025	Í Í	5D - Hol				Early Release Pack	ade #1 - Documents P	ublished				1
PST-1620	Vendor Prepare & Submit Bids - ERP #1	10	0	3/6/2025	3/19/2025	5D - Hol	-///			Vendor Prepare &	Submit Bids-ERP #1					
PST-1640	CM Prepare & Submit Letter of Recommendation- FRP #1	10	0	3/20/2025	4/2/2025	5D - Hol				CM Prepare & S	ubmit Letter of Recom	mendation- FF		<i>[</i>		
PST-1630	Review & Award Vendor - ERP #1	5	0	4/3/2025	4/9/2025	5D - Hol	-///			Review & Award	Vendor - ERP #1	17/				
90% Construction	Documents															
PST-1050	Produce 90% Construction Documents	40	0	2/26/2025	4/22/2025	5D - Hol				Produce 90% C	onstruction Document	ts				
PST-1900	Bidder Pre-Qualification	43	8	3/3/2025	4/30/2025	5D - Hol				Bidder Pre-Qua	alification					
PST-1070	CM Prepare & Submit 90% CD Estimate	7	67	3/5/2025	3/13/2025	5D - Hol				CM Prepare & Sub	mit 90% CD Estimate				·····	1
PST-1220	90% CD Estimate Reconciliation	1	67	3/14/2025	3/14/2025	5D - Hol				90% CD Estimate	Reconciliation					
PST-1230	CM Submit 90% CD Reconciled Estimate	1	67	3/14/2025	3/14/2025	5D - Hol				CM Submit 90% C	D Reconciled Estimate	e ///				1
PST-1890	Submit 90% Documents to MSBA	1	67	3/14/2025	3/14/2025	5D - Hol	-///			Submit 90% Docu	ments to MSBA					
PST-1090	MSBA Review 90% Documents & Provide Comments	21	67	3/17/2025	4/14/2025	5D - Hol				MSBA Review 9	0% Documents & Prov	/ide Comment	s			
PST-1880	Address Comments & Submit Final 90% CD Submission to MSBA	14	67	4/15/2025	5/2/2025	5D - Hol				Address Comr	nents & Submit Final 9	0% CD Submi	ission to MSBA	/////		
Early Release Pa	ckage 2 - Sitework/Foundations/Structure/Glazing Systems/Elevator															
PST-1350	Early Release Package #2 - Documents Published	0	0	4/22/2025		5D - Hol				♦ Early Release F	ackage #2 - Documer	nts Published				
PST-1010	Subcontractors Prepare & Submit Bids - ERP #2	15	0	4/23/2025	5/13/2025	5D - Hol	_////			Subcontracto	rs Prepare & Submit Bi	ds - ERP #2				
PST-1040	Review & Award Subcontractors - ERP #2	10	0	5/13/2025	5/27/2025	5D - Hol				📕 Review & Aw	vard Subcontractors - E	RP #2				
PST-1340	Contracts, Submittal & Mobilization Time - ERP #2	27	34	5/27/2025	7/2/2025	5D - Hol				Contracts	Submittal & Mobliliza	tion Time - ERI	P #2			
100% Constructio	n Documents															
PST-1100	Produce 100% Construction Documents	34	36	4/30/2025	6/17/2025	5D - Hol				Produce 10	0% Construction Doc	uments				
PST-1120	GMP Development	40	83	7/11/2025	9/5/2025	5D - Hol				GMF	Development					1
PST-1130	Present GMP	5	83	9/8/2025	9/12/2025	5D - Hol				I Pre	sent GMP					
Final Package 3 -	Remaining Trades															
PST-1360	Final Package 5 - Remaining Trades Published	0	36	6/18/2025		5D - Hol				Final Packa	age 5 - Remaining Tra	des Published				
PST-1110	Subcontractors Prepare & Submit Bids - Final Package 5	15	36	6/19/2025	7/10/2025	5D - Hol				Subconti	ractors Prepare & Subr	nit Bids - Final	Package 5			
PST-1140	Review & Award Priority Subcontractors - Final Package 5	20	36	7/11/2025	8/7/2025	5D - Hol				🔲 Reviev	& Award Priority Subc	ontractors - Fir	al Package 5			
Submittals & Pro	curement															
Division 02 - Exist	ing Conditions															
Hazardous Materi	al Abatement															
SUBM-1780	Prepare & Submit Hazardous Material Abatement Plan	10	44	3/26/2027	4/8/2027	5D - Hol							Prepare & Submit	. Hazardous Material Ab	atement Plar	í
SUBM-2030	Procure Massachusetts State Abatement Permit	10	44	4/9/2027	4/22/2027	5D - Hol							Procure Massach	iusetts State Abatemen	1t Permit	
Division 03 - Cond	rete															
Cast-In-Place Cor	crete													////		
SUBM-1220	Prepare & Submit Cast-In-Place Concrete Mix Designs	20	96	5/28/2025	6/24/2025	5D - Hol				Prepare &	Submit Cast-In-Place	Concrete Mix	Designs			
SUBM-1620	Review & Approve Cast-In-Place Concrete Mix Designs	10	96	6/25/2025	7/9/2025	5D - Hol				Review 8	Approve Cast-In-Plac	e Concrete N	lix Designs			
Foundation Rebar																
SUBM-1000	Prepare & Submit Foundation Rebar Shop Drawings	20	81	5/28/2025	6/24/2025	5D - Hol				Prepare &	Submit Foundation R	ebar Shop Dr	awings	////		1
SUBM-1580	Review & Approve Foundation Rebar Shop Drawings	15	81	6/25/2025	7/16/2025	5D - Hol				Review a	& Approve Foundation	Rebar	Drawings			
SUBM-1990	Fabricate & Deliver Foundation Rebar	10	81	7/17/2025	7/30/2025	5D - Hol				Fabrica	te & Deliver Foundatio	n Reba				
Division 04 - Maso	onry															
Masonry / Stone A	Assemblies															
SUBM-3240	Prepare & Submit Masonry Shop Drawings / Samples	20	86	8/8/2025	9/5/2025	5D - Hol				🔲 Prep	pare & Submit Masonry	/ Shop Drawir	ngs / Samples			
SUBM-3250	Review & Approve Masonry Shop Drawings / Samples	15	86	9/8/2025	9/26/2025	5D - Hol	_///			🔲 Re	eview & Approve Maso	nry Shipp Drav	wings/Samples			
SUBM-3260	Fabricate & Deliver Brick & Stone Assemblies	60	86	9/29/2025	12/23/2025	5D - Hol					Fabricate & Delive	er Brick & Stone	Assemblies			
Division 05 - Meta	ls															
Structural Steel (F	irst Area)		. 1													1
SUBM-1210	Prepare & Submit Structural Steel Shop Drawings	40	0	5/28/2025	7/23/2025	5D - Hol			/././.	Prepare	& Submit Structural S	teel Shop Dra	wings	/////		
SUBM-2390	Review & Approve Structural Steel Shop Drawings	30	0	//24/2025	9/4/2025	5D - Hol	_////		////	Rev	ew & Approve Structur	al Steel Shop	u prawings	////		
SOBM-3030		60	U	9/5/2025	12/1/2025	5D - Hol			////		Papricate & Deliver	Structural Stee				1
Metal Decking (Fil	rst Area)	45	44	E/00/000E	7/00/0005	CD 11-1										
SUBM-1120	Prepare & Submit Interal Decking Shop Drawings	45	11	5/28/2025	0/11/2025		_///		////			ing Shop Dra	ivings			1
SUBIVI-2340	Review & Approve metal Decking Shop Drawings	30	11	0/10/0005	9/11/2025		/·/·/·		\././ ./.				unawings	! <i>/././.</i>	·····	·
SUBM-3020		54	TT	9/12/2025	11/26/2025	5D - HOI			////		rapicate & Deliver I	vietai Decking				
SUBM 1110	In Franking Drange & Submit Cold Formed Metal Emmine Product Date / Shop Drawings	15	66	8/8/2025	10/10/2025	50 44			////		Proporte & Submit Cold	Formed Matel	Emming Product Date	Shop Drawings		
SUBM 2220	Review & Approve Cold Formed Metal Framing Froduct Data / Shop Drawings	40	66	10/12/2020	10/21/2025		-////				Review & America Col		al Framing Product Data	ta / Shan Drawings		
SUBM 2770	Eabricate & Deliver Cold-Formed Metal Empire	20	66	11/2/2025	12/2/2025						Eshrichte & Doliver		Antal Framing	a ronop Diawings		
Metal Fabrication		20	00	11/3/2023	12/2/2020									<i>.f.f.f.f.</i>	·····\	
instal rabiication									1////					/ / / /		/

Page 3 of 21	Clinton Middle School: Proposal Schedule								Dat	a Date	12/5/2023
Activity ID	Activity Description	Orig.	Total	Start	Finish	Calendar		0007	0000		0000
		Dur.	Float					2027 JIFI IAI IJIJIAISIOINIDI	2028 JIFIMAIM JI JIAISI DIN	JDJIF	2029 MAIMJIJIA
SUBM-1140	Prepare & Submit Metal Fabrications Product Data / Shop Drawings	45	307	8/8/2025	10/10/2025	5D - Hol		s Product Data / Shop Dray	vings		
SUBM-2360	Review & Approve Metal Fabrications Product Data / Shop Drawings	15	307	10/13/2025	10/31/2025	5D - Hol	Review & Approve Metal Fabricat	ons Product Data / Shop Dr	awings		
SUBM-2790	Fabricate & Deliver Metal Fabrications	60	307	11/3/2025	1/30/2026	5D - Hol	Fabricate & Deliver Metal	abrications			/
Metal Stairs and R	tailings										1
SUBM-1130	Prepare & Submit Metal Stairs and Railings Shop Drawings	45	286	8/8/2025	10/10/2025	5D - Hol	Prepare & Submit Metal Stairs and	Railings Shop Drawings	///		
SUBM-2350	Review & Approve Metal Stairs and Railings Shop Drawings	15	286	10/13/2025	10/31/2025	5D - Hol	Review & Approve Metal Stairs a	nd Railings Shop Drawings			
SUBM-2780	Fabricate & Deliver Metal Stairs	60	286	11/3/2025	1/30/2026	5D - Hol	Fabricate & Deliver Metal	Stairs			
SUBM-2820	Fabricate & Deliver Metal Railings	60	288	11/3/2025	1/30/2026	5D - Hol	Fabricate & Deliver Metal	Railings			
Division 06 - Woo	d, Plastics, and Composites	-									
Interior Architectu	ral Woodwork										
SUBM-1230	Prepare & Submit Interior Architectural Woodwork Product Data / Shop Drawings / Samples	60	133	8/8/2025	10/31/2025	5D - Hol	Prepare & Submit Interior Archite	tural Woodwork Product Da	ta / Shop Drawings / Sam	ples	
SUBM-2800	Review & Approve Interior Architectural Woodwork Product Data / Shop Drawings / Samples	15	133	11/3/2025	11/21/2025	5D - Hol	Review & Approve Interior Arch	ectural Woodwork Product /	Data / Shop Drawings / Sa	amples	
SUBM-3040	Fabricate & Deliver Interior Architectural Woodwork	80	133	11/24/2025	3/20/2026	5D - Hol	Fabricate & Deliver In	erior Architectural Woodwork			/
Plastic Paneling											
SUBM-1010	Prepare & Submit Plastic Paneling Product Data	60	153	8/8/2025	10/31/2025	5D - Hol	Prepare & Submit Plastic Panelin	g Product Data			
SUBM-2750	Review & Approve Plastic Paneling Product Data	15	153	11/3/2025	11/21/2025	5D - Hol	Review & Approve Plastic Pane	ing Product Data			
SUBM-2990	Fabricate & Deliver Plastic Paneling	60	153	11/24/2025	2/20/2026	5D - Hol	Fabricate & Deliver Plas	ic Paneling		V///	
Division 07 - Then	mal and Moisture Protection									V///	
Bituminous Damp	roofing							<u>//</u>	<u>//</u>		
SUBM-1100	Prepare & Submit Bituminous Damproofing Product Data	40	45	5/28/2025	7/23/2025	5D - Hol	Prepare & Submit Bituminous Damproofi	g Product Data			
SUBM-2080	Review & Approve Bituminous Damproofing Product Data	15	45	7/24/2025	8/13/2025	5D - Hol	🔲 Review & Approve Bituminous Dampro	fing ProductData			
SUBM-2580	Fabricate & Deliver Bituminous Damproofing	15	45	8/14/2025	9/4/2025	5D - Hol	🔲 Fabricate & Deliver Bituminous Damp	oofing			
Crystalline Water	proofing										
SUBM-1280	Prepare & Submit Crystalline Waterproofing Product Data	40	374	5/28/2025	7/23/2025	5D - Hol	Prepare & Submit Crystalline Waterproof	ng Product Data	<u> </u>		
SUBM-2130	Review & Approve Crystalline Waterproofing Product Data	15	374	7/24/2025	8/13/2025	5D - Hol	Review & Approve Crystalline Waterpro	ofing Product Data			1
SUBM-2610	Fabricate & Deliver Crystalline Waterproofing	20	374	8/14/2025	9/11/2025	5D - Hol	Fabricate & Deliver Crystalline Water	roofing			
Roofing & Flashin	9	1.40		0/0/0005	10/0/0005						
SUBM-1090	Prepare & Submit Roofing & Flashing Product Data / Shop Drawings	40	36	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Roofing & Flashi	ng / Product Data / Shop Drav	wings		
SUBM-2070	Review & Approve Roofing & Flashing Product Data / Shop Drawings	15	36	10/6/2025	10/24/2025	5D - Hol	Review & Approve Roofing & Flas	hing Product Data / Shop D	rawings		
SUBM-2570	Fabricate & Deliver Roofing & Flashing	30	36	10/27/2025	12/9/2025	5D - Hol	Fabricate & Deliver Roofing &	Flashing			
Thermal Insulation	Deservers & Submit Themsel Insulation Draduct Date / Shan Drawings	40	20	0/0/2025	40/2/2025	ED Hel					
SUBM-1760	Prepare & Submit Thermal Insulation Product Data / Shop Drawings	40	30	8/8/2025	10/3/2025	5D - Hol		r Product Data / Shop Drav	vings		1
SUBM-2940	Review & Approve Inermal Insulation Product Data / Snop Drawings	15	30	10/6/2025	10/24/2025	5D - Hol		tion Product Data / Shop Dr	awings		
SUBINI-ST70		30	30	10/27/2025	12/9/2025	5D - Hoi			/-/-/		
SUBM 1070	Prenare & Submit Air Barriers Product Data	40	104	8/8/2025	10/3/2025	5D Hol		uct Data			
SUBM-2050	Review & Approve Air Barriers Product Data	40	104	10/6/2025	10/2//2025	5D - Hol		odudt Data			
SUBM-2550	Fabricate & Deliver Air Barriers	30	104	10/27/2025	12/0/2025	5D - Hol	Entreviewed Approver Air Barniers				
Siding		50	104	10/21/2023	12/9/2023	50 - 1101					
SUBM-1290	Prepare & Submit Fiber-Cement Siding Product Data	40	139	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Fiber-Cement Si	ling Product Data	·/·/·		<u>}</u>
SUBM-2140	Review & Approve Fiber-Cement Siding Product Data	15	139	10/6/2025	10/24/2025	5D - Hol	Review & Approve Fiber-Cement	Siding Product Data			
SUBM-2620	Fabricate & Deliver Fiber-Cement Siding	30	139	10/27/2025	12/9/2025	5D - Hol	Eabricate & Deliver Fiber-Cent	ent Siding			
Division 08 - Oper	inas					32					
Hollow Metal Door	rs & Frames									Y///	
SUBM-1260	Prepare & Submit HM Doors & Frames Product Data / Shop Drawings / Schedule	30	120	8/8/2025	9/19/2025	5D - Hol	Prepare & Submit HM Doors & Fram	es / Product Data / Shop Dra	wings / Schedule		
SUBM-1860	Review & Approve HM Doors & Frames Product Data / Shop Drawings / Schedule	15	120	9/22/2025	10/10/2025	5D - Hol	Review & Approve HM Doors & Fra	mes Product Data / Shop D	mawings / Schedule		
SUBM-2400	Fabricate & Deliver HM Doors	60	328	10/13/2025	1/9/2026	5D - Hol	Fabricate & Deliver HM Do	urs /			
SUBM-2410	Fabricate & Deliver Door Frames	60	120	10/13/2025	1/9/2026	5D - Hol	Fabricate & Deliver Door Fr	ames		V///	
Flush Wood Doors	}										
SUBM-1050	Prepare & Submit Flush Wood Doors Product Data / Shop Drawings / Schedule	30	215	8/8/2025	9/19/2025	5D - Hol	Prepare & Submit Flush Wood Door	Product Data / Shop Drawi	ings/Schedule		
SUBM-1830	Review & Approve Flush Wood Doors Product Data / Shop Drawings / Schedule	15	215	9/22/2025	10/10/2025	5D - Hol	Review & Approve Flush Wood Do	ors / Product Data / Shop Dra	wings / Schedule	Y///	
SUBM-2320	Fabricate & Deliver Flush Wood Doors	100	215	10/13/2025	3/6/2026	5D - Hol	Fabricate & Deliver Flu	sh Wood Doors			
Overhead Coiling	Doors							1/) (/			
SUBM-1030	Prepare & Submit Overhead Coiling Doors Product Data / Shop Drawings / Schedule	60	171	8/8/2025	10/31/2025	5D - Hol	Prepare & Submit Overhead ¢oil	hg Doors Product Data / Sh	op Drawings / Schedule		
SUBM-2760	Review & Approve Overhead Coiling Doors Product Data / Shop Drawings / Schedule	15	171	11/3/2025	11/21/2025	5D - Hol	Review & Approve Overhead C	biling Doors Product Data / S	Shop Drawings / Schedule		1
SUBM-3010	Fabricate & Deliver Overhead Coiling Doors	80	171	11/24/2025	3/20/2026	5D - Hol	Fabricate & Deliver O	erhead Coiling Doors			1
Aluminum-Framed	Entrances & Storefronts										
SUBM-1200	Prepare & Submit Alumin um-Framed Entrances & Store fronts Product Data / Shop Drawings	30	349	5/28/2025	7/9/2025	5D - Hol	Prepare & Submit Aluminum-Framed Entra	nces& Store fron ts Pro duct	Data Shop Drawings	V///	
SUBM-1850	Review & Approve Aluminum-Framed Entrances & Storefronts Product Data / Shop Drawings	15	349	7/10/2025	7/30/2025	5D - Hol	Review & Approve Aluminum-Framed Er	trandes & Storefronts Produc	ct Data / Shop Drawings		
SUBM-2380	Fabricate & Deliver Aluminum-Framed Entrances & Store fromts	80	349	7/31/2025	11/20/2025	5D - Hol	Fabricate & Deliver Aluminum-F	ameld Entrances & Store from	ts		
Glazed Aluminum	Curtain Walls										
SUBM-1040	Prepare & Submit Glazed Aluminum Curtain Walls Product Data / Shop Drawings / Schedule	30	130	5/28/2025	7/9/2025	5D - Hol	Prepare & Submit Glazed Aluminum Curta	n Walls Product Data / Shoj	p Drawings / Schedule	V//	1

Page 4 of 21	Clinton Middle School: Proposal Schedule						Data Date 12/4	5/2023
Activity ID	Activity Description	Orig.	Total	Start	Finish	Calendar		512025
		Dur.	Float				2024 2025 2026 2027 2028 20 ID JEIMAIM JUJAISIOND JEIMAIM JUJAISIOND JEIMAIM JUJAISIOND JEIMAIM JUJAISIOND JEIMAIM JUJAISIOND JEIMAIM JUJAISIOND JEIMAIM)29 IM II II 4
SUBM-1820	Review & Approve Glazed Aluminum Curtain Walls Product Data / Shop Drawings / Schedule	15	130	7/10/2025	7/30/2025	5D - Hol	Review & Approve Glazed Aluminum Curtain Walls Product Data / Shop Drawings / Schedule	
SUBM-2310	Fabricate & Deliver Glazed Aluminum Curtain Walls	80	130	7/31/2025	11/20/2025	5D - Hol	Fabricate & Deliver Glazed Aluminum Curtain Walls	
Aluminum Windo	ws							
SUBM-1320	Prepare & Submit Aluminum Windows Product Data / Shop Drawings	30	122	5/28/2025	7/9/2025	5D - Hol	Prepare & SubmitAluminum Windows Product Data / Shop Drawings	
SUBM-1880	Review & Approve Aluminum Windows Product Data / Shop Drawings	15	122	7/10/2025	7/30/2025	5D - Hol	Review & Approve Aluminum Windows Product Data / Shop Drawings	
SUBM-2430	Fabricate & Deliver Aluminum Windows	80	122	7/31/2025	11/20/2025	5D - Hol	Fabricate & Deliver Alumin um Windows	
Door Hardware								
SUBM-1180	Prepare & Submit Door Hardware Product Data / Schedule	30	235	8/8/2025	9/19/2025	5D - Hol	Prepare & Submit Door Hardware / Product Data / Schedule	
SUBM-1840	Review & Approve Door Hardware Product Data / Schedule	15	235	9/22/2025	10/10/2025	5D - Hol	Review & Approve Door Hardware Product Data / Schedule	
SUBM-2370	Fabricate & Deliver Door Hardware	80	235	10/13/2025	2/6/2026	5D - Hol	Fabricate & Deliver Door Hardware	
Louvers & Vents	Dranam & Submit Lauvan & Vanta Dradust Data / Shan Draving	40	100	9/9/202E	10/2/2025	ED Hal		
SUBM 2150	Prepare & Submit Louvers & Vents Product Data / Shop Drawings	40	109	0/0/2025	10/3/2025	5D - Hol	Prepare & Bublinit Louvers & Verias (Product Data / Shop Drawings)	
SUBM 2630	Estricate & Deliver Louvers & Vents	60	109	10/0/2025	1/23/2025	5D - Hol	Ethricate & Deliver Louvers & Vents	
Division 09 - Fini		00	109	10/21/2023	1/23/2020	30 - 1101		
Besilient Floorin	a & Accessories							
SUBM-1800	Prenare & Submit Resilient Flooring & Accessories Product Data / Samples	40	288	8/8/2025	10/3/2025	5D - Hol	Prenare & Bubmit Resilient Flooring & Arcessories Product Data / Samples	
SUBM-2970	Review & Approve Resilient Flooring & Accessories Product Data / Samples	15	288	10/6/2025	10/24/2025	5D - Hol	Review & Approve Resilient Floring & Accessories Product Data / Samples	
SUBM-3200	Fabricate & Deliver Resilient Flooring & Accessories	30	288	10/27/2025	12/9/2025	5D - Hol	Fabricate & Deliver Resilient Flooring & Accessories	
Tiling			200		12/012020	02 1101		
SUBM-1650	Prepare & Submit Tiling Product Data / Samples	40	188	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Tiling Product Data / Samples	
SUBM-2830	Review & Approve Tiling Product Data / Samples	15	188	10/6/2025	10/24/2025	5D - Hol	Review & Approve Tiling Product Data / Samples	
SUBM-3060	Fabricate & Deliver Tile	60	188	10/27/2025	1/23/2026	5D - Hol	Fabricate & Deliver Tile	
Acoustical Tile C	Ceilings							
SUBM-1750	Prepare & Submit Acoustical Tile Ceilings Product Data / Shop Drawings	40	228	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Acoustical Tile Ceillings Product Data / Shop Drawings	
SUBM-2930	Review & Approve Acoustical Tile Ceilings Product Data / Shop Drawings	15	228	10/6/2025	10/24/2025	5D - Hol	Review & Approve Acoustical Tile Ceilings Product Data / Shop Drawings	
SUBM-3160	Fabricate & Deliver Acoustical Tile Ceilings	20	228	10/27/2025	11/21/2025	5D - Hol	Fabricate & Deliver Acoustical Tile Ceilings	
Custom Wall Cov	verings							
SUBM-1740	Prepare & Submit Custom Wall Coverings Product Data / Shop Drawings	40	245	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Custom Wall Coverings Product Data / Shop Drawings	
SUBM-2920	Review & Approve Custom Wall Coverings Product Data / Shop Drawings	15	245	10/6/2025	10/24/2025	5D - Hol	Review & Approve Custom Wall Coverings Product Data / Shop Drawings	
SUBM-3150	Fabricate & Deliver Custom Wall Coverings	80	245	10/27/2025	2/20/2026	5D - Hol	I Pabricate & Deliver Oustom Wall Coverings	
Division 10 - Spe								
VISUAI DISPIAY S	Urfaces	40	200	9/9/2025	10/2/2025	ED Hal	Departs & Eulemit Visual Display Surface Draduct Data / Star Devings / Samplas	
SUBM-2010	Review & Approve Visual Display Surfaces Product Data / Shop Drawings / Samples	40	308	10/6/2025	10/3/2025	5D - Hol	Review & Approve Visual Display Surfaces Product Data / Shop Drawings / Samples	
SUBM-3140	Fabricate & Deliver Visual Display Surfaces	60	308	10/27/2025	1/23/2025	5D - Hol	Fabricate & Deliver Visual Display Surfaces	
Toilet Compartme	ents	00	000	10/21/2020	1/20/2020			
SUBM-1710	Prepare & Submit Toilet Compartments Product Data / Shop Drawings / Samples	40	283	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Toilet Compartments Product Data / Shop Drawinds / Samples	
SUBM-2890	Review & Approve Toilet Compartments Product Data / Shop Drawings / Samples	15	283	10/6/2025	10/24/2025	5D - Hol	Review & Approve Toilet Compartments Product Data / Shop Drawings / Samples	
SUBM-3120	Fabricate & Deliver Toilet Compartments	60	283	10/27/2025	1/23/2026	5D - Hol	Fabricate & Deliver Toilet Compartments	
Folding Panel Pa	rtitions							
SUBM-1720	Prepare & Submit Folding Panel Partitions Product Data / Shop Drawings / Samples	40	273	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Folding Panel Partitions Product Data / Shop Drawings / Samples	
SUBM-2900	Review & Approve Folding Panel Partitions Product Data / Shop Drawings / Samples	15	273	10/6/2025	10/24/2025	5D - Hol	Review & Approve Folding Partitions Product Data / Shop Drawings / Samples	
SUBM-3130	Fabricate & Deliver Folding Panel Partitions	75	273	10/27/2025	2/13/2026	5D - Hol	Fabricate & Deliver Folding Panel Partitions	
Metal Lockers		· · · · ·						
SUBM-1700	Prepare & Submit Metal Lockers Product Data / Shop Drawings	40	233	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Metal Lockers Product Data / Shop Drawings	
SUBM-2880	Review & Approve Metal Lockers Product Data / Shop Drawings	15	233	10/6/2025	10/24/2025	5D - Hol	Review & Approve Metal Lockers / Profluct Data / Shop Drawings	
SUBM-3110	Fabricate & Deliver Metal Lockers	80	233	10/27/2025	2/20/2026	5D - Hol	Fabricate & Deliver Metal Lodkers	
Division 11 - Equ	lipment							
Stage Curtains	Draw and A. Oshanik Ota an Osata ing I. Drawlast Data / Osana Ing	40	000	0/0/0005	40/0/0005	ED 11-1		
SUBM-1080	Prepare & Submit Stage Curtains Product Data / Samples	40	200	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Stage Curtains (Product Data / Samples	
SUBM 3000	Fabricate & Deliver Stage Cultains	60	200	10/0/2025	1/23/2026	5D Hol	Environte & Deliver State Cutatins / Floudic Data / Samples	
Ecodeonico Equ		00	200	10/27/2025	1/23/2020	5D - Hoi		
SUBM-1240	Prenare & Submit Foodservice Equipment Product Data / Shop Drawings	40	230	8/8/2025	10/3/2025	5D - Hol	Prepare & Bubmit Foodservice Equipment Product Data / Shop Drawings	
SUBM-2100	Review & Approve Foodservice Equipment Product Data / Shop Drawings	15	230	10/6/2025	10/24/2025	5D - Hol	Review & Approve Food service: Fourinment Product Data / Shop Drawings Review & Approve Food service: Fourinment Product Data / Shop Drawings	
SUBM-2590	Fabricate & Deliver Foodservice Equipment	80	230	10/27/2025	2/20/2026	5D - Hol	Fabricate & Deliver Foodservice Equipment	
Gym Equipment					0,2020			
SUBM-1790	Prepare & Submit Gymnasium Equipment Product Data / Shop Drawings	40	273	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Gymnasium Equipment Product Data / Shop Drawings	
SUBM-2960	Review & Approve Gymnasium Equipment Product Data / Shop Drawings	15	273	10/6/2025	10/24/2025	5D - Hol	Review & Approve Gymna sium Equipment Product Data / Shop Drawings	
SUBM-3190	Fabricate & Deliver Gymnasium Equipment	80	273	10/27/2025	2/20/2026	5D - Hol	Fabricate & Deliver Gymnasium Equipment	
Division 12 - Fur	nishings							

Page 5 of 21	Clinton Middle School: Proposal Schedule						Data Date 12/5/2023
Activity ID	Activity Description	Orig.	Total Elect	Start	Finish	Calendar	2024 2025 2026 2027 2028 2020
		Dui.	FIUAL				I DIFIMAMIJASIONDJIFIMAMJJASIONDJIFIMAMJJASIONDJIFI I JJASIONDJIFIMAMJASIONDJIFIMAMJASIONDJASIONDJIFIMAMJASIONDJIFIMAMJASIONDJIFIMAMJASIONDJIFIMAMJASIONDJIFIMAMJASIONDJIFIMAMJASIONDJIFIMAMJASIONDJIFITASIONDJIFITASIONDJIFITASIONDJIFITASIONDJIFITASIONDJIFITASIONDJIFITASIONDJIFITASIONDJIFITASIONDJIFITASIONDJIFITASIONDJIFITASIONDJIFITASIONDJIFITASIONDJIFITASIONDJASIONDJIFITASIONDJASIONDJIFITASIONDJASIONDJIFITASIONDJASIONDJ
Window Shades							
SUBM-1670	Prepare & Submit Window Shades Product Data / Shop Drawings	40	311	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Window Shades Product Data / Shop Drawings
SUBM-2850	Review & Approve Window Shades Product Data / Shop Drawings	15	311	10/6/2025	10/24/2025	5D - Hol	Review & Approve Window Shades / Product Data / Shop Drawings
SUBM-3080	Fabricate & Deliver Window Shades	60	311	10/27/2025	1/23/2026	5D - Hol	Fabricate & Deliver Window Shades
Entrance Floor Gr	illes & Frames						
SUBM-1660	Prepare & Submit Entrance Floor Grilles & Frames Product Data / Shop Drawings	40	288	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Entrance Floor Grilles & Frames Product Data / Shop Drawings
SUBM-2840	Review & Approve Entrance Floor Grilles & Frames Product Data / Shop Drawings	15	288	10/6/2025	10/24/2025	5D - Hol	Review & Approve Entrance Floor Grilles & Frames Product Data / Shop Drawings
SUBM-3070	Fabricate & Deliver Entrance Floor Grilles & Frames	30	288	10/27/2025	12/9/2025	5D - Hol	Fabriçate & Deliver Entrance Floor Grilles & Frames
Division 14 - Conv	eying Equipment						
Elevators							
SUBM-1250	Prepare & Submit Elevator Product Data / Shop Drawings	40	279	5/28/2025	7/23/2025	5D - Hol	Prepare & Submit Elevator Product Data / Shop Drawings
SUBM-2110	Review & Approve Elevator Product Data / Shop Drawings	15	279	7/24/2025	8/13/2025	5D - Hol	Review & Approve Elevator Product Data / Shop Drawings
SUBM-2600	Fabricate & Deliver Elevators	120	279	8/14/2025	2/5/2026	5D - Hol	Fabricate & Deliver Elevators
Division 21 - Fire S	Suppresion						
Fire Protection							
SUBM-1190	Prepare & Submit Fire Protection Product Data / Shop Drawings	40	145	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Fire Protection Product Data / Shop Drawings
SUBM-2090	Review & Approve Fire Protection Product Data / Shop Drawings	15	145	10/6/2025	10/24/2025	5D - Hol	Review & Approve Fire Protection Product Data / Shop Drawings
Division 22 - Plum	bina				· · · ·		
Plumbing Piping							
SUBM-1380	Prepare & Submit Plumbing Pipe Piping Product Data / Shop Drawings	40	145	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Plumbing Pipe Piping Product Data / Shop Drawings
SUBM-2170	Review & Approve Plumbing Pipe Piping Product Data / Shop Drawings	15	145	10/6/2025	10/24/2025	5D - Hol	Review & Approve Plumbing Hipe Piping Product Data / Shop Drawings
SUBM-2640	Fabricate & Deliver Plumbing Piping	20	145	10/27/2025	11/21/2025	5D - Hol	Fabricate & Deliver Plumbing Piping
Gas-Fired Water H	leaters				<u> </u>		
SUBM-1420	Prepare & Submit Gas-Fired Water Heaters Product Data / Shop Drawings	40	227	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Gas-Fired Water Heaters Product Data / Shop Drawings
SUBM-2200	Review & Approve Gas-Fired Water Heaters Product Data / Shop Drawings	15	227	10/6/2025	10/24/2025	5D - Hol	Review & Approve Gas-Fired Water Heaters Product Data / Shop Drawings
SUBM-2670	Fabricate & Deliver Gas-Fired Water Heaters	60	227	10/27/2025	1/23/2026	5D - Hol	Fabricate & Deliver Gas Fired Water Heaters
Plumbing Fixtures							
SUBM-1440	Prepare & Submit Plumbing Fixtures Product Data / Shop Drawings	40	243	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Plumbing Fixtures (Product Data / Shop Drawings)
SUBM-2220	Review & Approve Plumbing Fixtures Product Data / Shop Drawings	15	243	10/6/2025	10/24/2025	5D - Hol	Review & Approve Plumbing Fixtures / Product Data / Shop Drawings
SUBM-2690	Fabricate & Deliver Plumbing Fixtures	60	243	10/27/2025	1/23/2026	5D - Hol	Fabricate & Deliver Plumbing Fixtures
Division 23 - HVA					· · · ·		
Boilers							
SUBM-1370	Prepare & Submit Boiler Product Data / Shop Drawings	30	177	8/8/2025	9/19/2025	5D - Hol	Prepare & Submit Boiler Product Data / Shop Drawings
SUBM-1910	Review & Approve Boiler Product Data / Shop Drawings	15	177	9/22/2025	10/10/2025	5D - Hol	Review & Approve Boiler Product Data / Shop Drawings
SUBM-2460	Fabricate & Deliver Boilers	120	177	10/13/2025	4/3/2026	5D - Hol	Fabricate & Deliver, Boilers
AHUs / MAUs / DO	DAS						
SUBM-1450	Prepare & Submit AHUs / MAUs / DOAS Product Data / Shop Drawings	30	104	8/8/2025	9/19/2025	5D - Hol	Prepare & Submit AHUs / MAUs / DOAS Product Data / Shop Drawings
SUBM-1930	Review & ApproveAHUs / MAUs / DOAS Product Data / Shop Drawings	15	104	9/22/2025	10/10/2025	5D - Hol	Review & ApproveAHUs / MAUs / DOAS Product Data / Shop Drawings
SUBM-2480	Fabricate & Deliver AHUs / MAUs / DOAS	200	104	10/13/2025	7/28/2026	5D - Hol	Fabricate & Deliver AHUs / MAUs / DOAS
Division 26 - Elect	rical						
Low Voltage Trans	formers						
SUBM-1390	Prepare & Submit Low Voltage Transformers Product Data / Shop Drawings	30	191	8/8/2025	9/19/2025	5D - Hol	Prepare & Submit Low Voltage Transformers Product Data / Shop Drawings
SUBM-1920	Review & Approve Low Voltage Transformers Product Data / Shop Drawings	15	191	9/22/2025	10/10/2025	5D - Hol	Review & Approve Low Voltage Transformers Product Data Shop Drawings
SUBM-2470	Fabricate & Deliver Low Voltage Transformers	120	191	10/13/2025	4/3/2026	5D - Hol	Fabricate & Deliver Low Vpltage Transformers
Electrical Gear							
SUBM-1490	Prepare & Submit Electrical Gear Product Data / Shop Drawings	20	40	4/10/2025	5/7/2025	5D - Hol	Prepare & Submit Electrical Gear Product Data / Shop Drawings
SUBM-1630	Review & Approve Electrical Gear Product Data / Shop Drawings	20	40	5/8/2025	6/5/2025	5D - Hol	Review & Approve Electrical Gear Product Data / Shop Drawings
SUBM-2230	Fabricate & Deliver Electrical Gear	360	40	6/6/2025	11/5/2026	5D - Hol	Fabricate & Deliver Electrical Gear
Generator							
SUBM-1500	Prepare & Submit Engine Generators Product Data / Shop Drawings	20	24	4/10/2025	5/7/2025	5D - Hol	Prepare & Submit Engine Generators Product Data / Shop Drawings
SUBM-1640	Review & Approve Engine Generators Product Data / Shop Drawings	20	24	5/8/2025	6/5/2025	5D - Hol	Review & Approve Engine Generators Product Data / Shop Drawings
SUBM-2240	Fabricate & Deliver Engine Generators	400	24	6/6/2025	1/6/2027	5D - Hol	Fabricate & Deliver Engine Generators
Transfer Switches							
SUBM-1510	Prepare & Submit Transfer Switches Product Data / Shop Drawings	20	24	4/10/2025	5/7/2025	5D - Hol	Prepare & Submit Transfer Switches Product Data Shop Drawings
SUBM-1810	Review & Approve Transfer Switches Product Data / Shop Drawings	20	24	5/8/2025	6/5/2025	5D - Hol	Review & Approve Transfer Switches Product Data / Shop Drawings
SUBM-2530	Fabricate & Deliver Transfer Switches	400	24	6/6/2025	1/6/2027	5D - Hol	Fabricate & Deliver Transfer Switches
Panelboards & Lo	ad Centers Over 400 Amps				· · · · · · · · · · · · · · · · · · ·		
SUBM-3210	Prepare & Submit Panelboards & Load Centers Product Data / Shop Drawings	20	0	4/10/2025	5/7/2025	5D - Hol	Prepare & Submit Panelboards & Load Centers Product Data / Shop Drawings
SUBM-3220	Review & Approve Panelboards & Load Centers Product Data / Shop Drawings	20	0	5/8/2025	6/5/2025	5D - Hol	Review & Approve Panelboard s & Load Centers Product Data / Shop Drawings
SUBM-3230	Fabricate & Deliver Panelboards & Load Centers	400	0	6/6/2025	1/6/2027	5D - Hol	Fabricate & Deliver Panelboards & Load Centers
Utility Transforme	r (By Electric Company)						
SUBM-1980	Fabricate & Deliver Transformer (By Electric Company)	400	63	4/10/2025	11/5/2026	5D - Hol	Fabricate & Deliver Transformer (By Electric Company)

Page 6 of 21	Clinton Middle School: Proposal Schedule						Data Date 12/5/2023
Activity ID	Activity Description	Orig.	Total	Start	Finish	Calendar	2024 2025 2026 2027 2028 2029
		Dui.	Tioat				
Interior Lighting							
SUBM-1520	Prepare & Submit Interior Lighting Product Data / Shop Drawings	40	183	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Interior Lighting Product Data / Shop Drawings
SUBM-2250	Review & Approve Interior Lighting Product Data / Shop Drawings	15	183	10/6/2025	10/24/2025	5D - Hol	Review & Approve Interior Lighting (Product Data / Shop Drawings)
SUBM-2700	Fabricate & Deliver Interior Lighting	80	183	10/27/2025	2/20/2026	5D - Hol	Fabricate & Deliver Interior Lighting
Exterior Lighting							
SUBM-1530	Prepare & Submit Exterior Lighting Product Data / Shop Drawings	40	179	8/8/2025	10/3/2025	5D - Hol	Prépare & Submit Exterior Lighting Product Data / Shop Drawings
SUBM-2260	Review & Approve Exterior Lighting Product Data / Shop Drawings	15	179	10/6/2025	10/24/2025	5D - Hol	Review & Approve Exterior Lighting (Product Data / Shop D) rawings
SUBM-2710	Fabricate & Deliver Exterior Lighting	80	179	10/27/2025	2/20/2026	5D - Hol	Fabricate & Deliver Exterior Lighting
Division 27 - Com	nunications						
Data Communicati	ons Network Equipment	1.0	0.50	0/0/0005	10/0/0005		
SUBM-1400	Prepare & Submit Data Communications Network Equipment Product Data / Shop Drawings	40	258	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Data Communications Network Equipment Product Data / Shop Drawings
SUBM-2180	Review & Approve Data Communications Network Equipment Product Data / Shop Drawings	15	258	10/6/2025	10/24/2025	5D - Hol	Review & Approve Data Communications Network Equipment Product Data / Shop Drawings
SUBM-2650	Fabricate & Deliver Data Communications Network Equipment	80	258	10/27/2025	2/20/2026	5D - Hol	A communications Network Equipment
Audio-Video Com	Aunications	40	050	0/0/2025	40/2/2025	ED Hel	
SUBIM-1540	Prepare & Submit Audio-Video Communications Product Data / Shop Drawings	40	208	8/8/2025	10/3/2025	5D - Hol	Prepare & Bubmit Audio-Video Communications Product Data / Shop Drawings
SUBM-2270	Review & Approve Audio-video Communications Product Data / Shop Drawings	15	258	10/6/2025	10/24/2025	5D - Hoi	Review & Approve Audio-video Communications Product Wata / Shop Drawings
SUBM-2720	Fabricate & Deliver Aud D-Video Communications	80	258	10/27/2025	2/20/2026	5D - Hoi	
Public Address Sy	Stem	40	259	8/8/2025	10/2/2025	5D Hol	Property & Rubmit Public Addrees Surface L Product Data / Shop Provinge
SUBM 2280	Property & Submit Fublic Address System Product Data / Shop Drawings	40	250	10/6/2025	10/3/2025	5D - Hol	Prepare & Sublinit Fublic Address System Product Data / Shop Dirwings
SUBM 2720	Entricate & Deliver Public Address System	00	250	10/0/2025	2/20/2026	5D - Hol	Espringer & Deliver Bublic Address System Flodded Data / Shop Diawings
Division 28 Elect	radicale & Deliver Fubic Address System	00	230	10/21/2023	2/20/2020	30 - 1101	
	Control Intrusion Detection & Internom Systems						
SUBM-1410	Prepare & Submit Security Systems Product Data / Shop Drawings	40	190	8/8/2025	10/3/2025	5D - Hol	Prenare & Buhmit Security Systems Preduct Data / Shop Drawings
SUBM-2190	Review & Approve Security Systems Product Data / Shop Drawings	15	100	10/6/2025	10/24/2025	5D - Hol	
SUBM-2660	Fabricate & Deliver Security Equinment	120	190	10/0/2025	4/17/2026	5D - Hol	Eabricate & Deliver Security Equipment
	Alarm System	120	130	10/21/2023	4/11/2020	5D - 1101	
SUBM-1560	Prepare & Submit Addressable Fire Alarm Product Data / Shop Drawings	40	104	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Addressable Fire Alarm Product Data / Shop Drawings
SUBM-2290	Review & Approve Addressable Fire Alarm Product Data / Shop Drawings	15	104	10/6/2025	10/24/2025	5D - Hol	Review & Approve Addressable Fire Alarm Product Data / Shop Drawings
SUBM-2740	Fabricate & Deliver Addressable Fire Alarm System	80	104	10/27/2025	2/20/2026	5D - Hol	Fabricate & Deliver Addressable Fire Alarm System
Division 32 - Exter	ior Improvements	00		10/21/2020	2/20/2020	02 110	
Fencing							
SUBM-1430	Prepare & Submit Fencing Product Data / Shop Drawings	40	313	8/8/2025	10/3/2025	5D - Hol	Prepare & Submit Fencing Product Data / Shop Drawings
SUBM-2210	Review & Approve Fencing Product Data / Shop Drawings	15	313	10/6/2025	10/24/2025	5D - Hol	Review & Approve Fencing Product Data / Shop Drawings
SUBM-2680	Fabricate & Deliver Fencing	60	313	10/27/2025	1/23/2026	5D - Hol	Fabricate & Deliver Fencing
Division 33 - Utiliti	es						
Water Utilities							
SUBM-1160	Prepare & Submit Water Utilities Product Data / Shop Drawings	20	48	5/28/2025	6/24/2025	5D - Hol	Prepare & Submit Water Utilities Product Data / Shop Drawings
SUBM-1600	Review & Approve Water Utilities Product Data / Shop Drawings	10	48	6/25/2025	7/9/2025	5D - Hol	Review & Approve Water Utilities Product Data / Shop Drawings
SUBM-2010	Fabricate & Deliver Water Pipe & Materials	20	48	7/10/2025	8/6/2025	5D - Hol	Fabricate & Delver Water Pipe & Materials
Sanitary Sewerage	e Utilities						
SUBM-1150	Prepare & Submit Sanitary Sewerage Product Data / Shop Drawings	20	58	5/28/2025	6/24/2025	5D - Hol	Prepare & Submit \$anitary Sewerage Product Data / Shop Drawings
SUBM-1590	Review & Approve Sanitary Sewerage Product Data / Shop Drawings	10	58	6/25/2025	7/9/2025	5D - Hol	Review & Approve Sanitary Sewerage Product Data / Shop Drawings
SUBM-2000	Fabricate & Deliver Sanitary Pipe & Materials	20	58	7/10/2025	8/6/2025	5D - Hol	Fabricate & Deliver Sanitary Pipe & Materials
Storm Drainage Ut	tilities						
SUBM-1170	Prepare & Submit Storm Drainage Product Data / Shop Drawings	20	43	5/28/2025	6/24/2025	5D - Hol	Prepare & Submit \$torm Drainage Product Data / Shop Drawings
SUBM-1610	Review & Approve Storm Drainage Product Data / Shop Drawings	10	43	6/25/2025	7/9/2025	5D - Hol	Review & Approve Storm Drainage Product Data / Shop Drawings
SUBM-2020	Fabricate & Deliver Drainage Pipe & Structures	20	43	7/10/2025	8/6/2025	5D - Hol	Fabricate & Deliver Drainage Pipe & Structures
MEP Coordinatio	n						
Underground & M	EP Risers						
CORD-1000	Coordinate Underground & MEP Risers	20	78	8/8/2025	9/5/2025	5D - Hol	Coordinate Underground & MEP Risers
CORD-1030	Review & Approve Coord ination - Underground & MEP Risers	10	78	9/8/2025	9/19/2025	5D - Hol	Review & Approve Coordination - Underground & MEP Risers
Second Floor		-					
CORD-1010	Coordinate Second Floor & RTUs - Full Floor Plate	20	170	9/8/2025	10/3/2025	5D - Hol	Coordinate Second Floor & RTUs - Full Floor Plate
CORD-1050	Review & Approve Coordination - Second Floor Plate	10	175	10/6/2025	10/17/2025	5D - Hol	Review & Approve Coordination - Second Floor Plate
CORD-1060	Fabricate Sheet Metal - Second Floor	10	175	10/20/2025	10/31/2025	5D - Hol	Fabricate Sheet Metal - Second Floor
First Floor		-					
CORD-1020	Coordinate First Floor - Full Floor Plate	20	170	10/6/2025	10/31/2025	5D - Hol	Coordinate First Floor - Full Floor Plate
CORD-1040	Review & Approve Coordination - First Floor Plate	10	170	11/3/2025	11/14/2025	5D - Hol	Review & Approve Coordination - First Fbor Plate
CORD-1070	Fabricate Sheet Metal - First Floor	10	170	11/17/2025	12/2/2025	5D - Hol	Fabricate Sheet Metal - First Floor
Phase 1 - Buildin	a Construction						
	g = 01101101011						

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Activity ID	Activity Description	Orig.	Total	Start	Finish	Calendar	
		Dur.	Float				DUIEMAMUUUASIONDUIEMAMUUUASIONDUIEMAMUUUASIONDUIELIALUUUASIONDUIEMAMUUUASIONDUIEMAMUUUASIONDUIEMAMUU
Mobilization & Co	nstruction Startun						
CNST-1000	Mobilize to Site	1	34	7/3/2025	7/3/2025	5D - Hol	I Mobilize to Site
CNST-1010	Secure Site (Temp Fencing, Signage, etc.)	4	34	7/7/2025	7/10/2025	5D - Hol	Secure Site /Temp Fencing, Signage, etc.
CNST-1020	Install Stabilized Construction Entrance / Tracking Pad	2	36	7/7/2025	7/8/2025	5D - Hol	L Install Stabilized Construction Entrance/ Tracking Pad
CNST-1070	Setup Temporary Power	10	103	7/25/2025	8/7/2025	5D - Hol	Setup Temporary Power
CNST-1080	Establish Project Field Offices	10	103	7/25/2025	8/7/2025	5D - Hol	Establish Project Field Offices
Enabling Sitework				1/20/2020	0,1,2020	02 1101	
CNST-1030	Construct Temp Access & Parking	10	54	7/11/2025	7/24/2025	5D - Hol	Construct Temp Access & Parking
CNST-10/0	Establish Erosion & Sedimentation Controls	5	3/	7/11/2025	7/17/2025	5D - Hol	
CNST-10-50	Site Demolition & Temp Protection	5	34	7/11/2025	7/17/2025	5D - Hol	
CNST-1090	Strip & Remove Loam	10	34	7/18/2025	7/31/2025	5D - Hol	
CNST-1100	Earthwork / Site to Subgrade	20	3/	7/25/2025	8/21/2025	5D - Hol	
CNST-1110	Construct Gravel Borrow Subbase - Ring Road	15	/3	9/5/2025	9/25/2025	5D - Hol	
CNST-1120	Pave Binder - Ring Road	2	43	9/26/2025	9/29/2025	5D - Hol	L Pave Binder - Ring Road
Site Litilities		2		0/20/2020	0/20/2020		
CNST 1130	Install Storm Drainage Ring Road	20	13	8/7/2025	0/4/2025	5D Hol	
CNST-1130	Install Stoff Drainage - King Koad	15	43	8/8/2025	8/28/2025	5D Hol	
CNST-1330		15	47	8/8/2025	8/28/2025	5D Hol	
CNST-1230		5	47	8/22/2025	8/28/2025	5D - Hol	I Install Spritary Sever - Area w/ Rink Road
CNST 14 50		20	21/	8/20/2025	0/26/2025	5D Hol	
CNST-1430	Install Transformer & Generator Pade	5	214	0/22/2025	9/20/2025	5D Hol	
CNST-15-10		20	214	9/22/2025	10/24/2025		
CNST-1330		15	107	4/1/2026	10/24/2023	5D Hol (No Winter)	atar)
CNST40000	Install Bemaining Drainage / Water / Fire Protection Phase 1	60	62	4/1/2020	6/24/2026	5D Hol (No Winter)	
CNST-1720	Set Electrical Litility Transformer	2	63	4/1/2020	0/24/2020		
CNST6500	Set Electrical Constator	1	24	1/7/2020	1/7/2020		
Concrete Foundat		1	24	1/1/2021	1/1/2021	5D - HUI	
CNST-1180	Excavate for Footings - Area A	10	34	8/22/2025	9/5/2025	5D - Hol	Excavate for Footings - Area A
CNST-1220	E/R/P Concrete Footings - Area A	10	3/	8/20/2025	9/12/2025	5D - Hol	
CNST-1220	F/R/P Concrete Foundation Walks Area A	10	34	0/29/2023	9/12/2025	5D Hol	
CNST1280	E/R/D Interior Eactings Crade Reams & Diers Area A	5	30	0/15/2025	0/10/2025	5D Hol	L E/PIP Interior Ecotings Crade Beams & Piers Area A
CNST-1200	Construct Elevator Dit Area A	5	368	9/15/2025	9/19/2025	5D - Hol	
CNST-1300		10	34	9/13/2025	10/3/2025	5D - Hol	
CNST-1430	Waterproofing - Elevator Pit Walls - Area A	5	368	9/22/2025	9/26/2025	5D - Hol	Waterproofing - Flevator Pit Walls - Area A
CNST-1380	Install Perimeter Drain & Backfill - Area A	10	34	9/29/2025	10/10/2025	5D - Hol	I Install Perimeter Drain & Backfill - Area A
Area B		10	04	5/25/2025	10/10/2023	50 - 1101	
CNST-1140	Excavate for Footings - Area B	10	50	9/8/2025	9/19/2025	5D - Hol	Excepte for Footings - Area B
CNST-1150	E/R/P Concrete Footings - Area B	10	50	9/15/2025	9/26/2025	5D - Hol	I E/B/P.Condicate Enotings - Area B
CNST-1160	F/R/P Concrete Foundation Walls - Area B	10	50	9/22/2025	10/3/2025	5D - Hol	F/R/P Concrete Foundation Wals-Area B
CNST-1190	F/R/P Interior Footings, Grade Beams & Piers - Area B	5	50	9/29/2025	10/3/2025	5D - Hol	F/R/P Interior Footings, Grade Beams & Piers - Area B
CNST-1200	Foundation Waterproofing - Area B	5	50	10/6/2025	10/10/2025	5D - Hol	I Foundation Waterproofing - Area B
CNST-1250	Install Perimeter Drain & Backfill - Area B	8	50	10/13/2025	10/22/2025	5D - Hol	Install Perimeter Drain & Backfill - Area B
Area C							
CNST-1270	Excavate for Footings - Area C	10	69	9/22/2025	10/3/2025	5D - Hol	Excavate for Footings - Area C
CNST-1310	F/R/P Concrete Footings - Area C	10	69	9/29/2025	10/10/2025	5D - Hol	F/R/P Concrete Footings - Area C
CNST-1320	F/R/P Concrete Foundation Walls - Area C	10	69	10/6/2025	10/17/2025	5D - Hol	FIR/P Concrete Foundation Walls - Area C
CNST-1350	F/R/P Interior Footings, Grade Beams, & Piers - Area C	5	69	10/13/2025	10/17/2025	5D - Hol	I FIR/P Interior Footings, Grade Beams, & Piers - Area C
CNST-14 10	Foundation Waterproofing - Area C	5	69	10/20/2025	10/24/2025	5D - Hol	I Foundation Waterproofing - Area C
CNST-1460	Install Perimeter Drain & Backfill - Area C	8	69	10/27/2025	11/5/2025	5D - Hol	Install Perimeter Drain & Backfill - Area C
Structural Steel / C	CMU						
Area A							
CNST-1470	Erect Structural Steel - Area A	15	0	12/2/2025	12/22/2025	5D - Hol	Erect Structural Steel - Area A
CNST-1620	Construct CMU Walls - Area A	40	180	12/9/2025	2/5/2026	5D - Hol	Construct CMU Walls-Area A
CNST-1490	Metal Decking & Detailing - Area A	10	0	12/16/2025	12/31/2025	5D - Hol	Metal Decking & Detailing - Are's A
CNST-1590	Deck Turnover - Area A	1	0	1/2/2026	1/2/2026	5D - Hol	Deck Turnover - Area A
CNST-1660	Construct CMU Elevator Shaft - Area A	20	145	1/5/2026	1/30/2026	5D - Hol	Construct CMU Elevator Shaft - Area A
Area B							
CNST-1420	Erect Structural Steel - Area B	10	9	12/23/2025	1/8/2026	5D - Hol	Erect Structural Steel - Area B
CNST-1440	Metal Decking & Detailing - Are a B	10	9	1/2/2026	1/15/2026	5D - Hol	Metal Decking & Detailing - Area B
CNST-1500	Deck Turnover - Area B	1	9	1/16/2026	1/16/2026	5D - Hol	Deck Turno ver - Area B
u	Y						

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Activity ID	Activity Description	Orig.	Total	Start	Finish	Calendar	<u> </u>	2004 2005	-	2020	-	0007		0000		2020
		Dur.	Float					2024 Z025 TMAMJIJIASIDINDIJIFMAMJIJIASIDIN		2026 TMAIMJIJIAISION				2028 MAIMJIJIAISIDI	NDJIF	
Area C					1							1			7///	
CNST-1480	Erect Structural Steel - Area C	10	28	1/9/2026	1/22/2026	5D - Hol				Erect Structural Steel -	AreaC	1		1		
CNST-1580	Metal Decking & Detailing - Area C	10	28	1/16/2026	1/29/2026	5D - Hol				Metal Decking & Deta	iling - Are	eaC		1		
CNST-1810	Deck Turnover - Area C	1	28	1/30/2026	1/30/2026	5D - Hol			X	Deck Turno ver - Area	¢///			1		
Concrete Slabs-C	Dn-Deck												$\langle / / \rangle$	1		
Area B / Partial A	vea A													1		
CNST-1520	MEP Rough Slab-On-Deck - Area B / Area A	5	9	1/19/2026	1/23/2026	5D - Hol				MEP Rough Slab-On-I	Deck - Al	rea B / Area A		1		
CNST-1560	F/R/P Slab-On-Decks / Roof Pads - Area B / Area A	6	9	1/26/2026	2/2/2026	5D - Hol				F/R/P Slab-On-Decks	Roof F	Pads - Area B / Area A	$\langle / / \rangle$	1		
CNST-1640	Cure Slab-On-Deck - Area B / Area A	3	13	2/3/2026	2/5/2026	7D - No Hol (MS Cal)				¢ure Slab-On-Deck -	Area B1	Area A		1		
CNST-1690	Set Control & Layout - Slab-On-Deck - Area B / Area A	3	9	2/6/2026	2/10/2026	5D - Hol				Set Control & Layout	- Slab-C	on-Deck - Area B / Are	aA /	1		
Area C																
CNST-1850	MEP Rough Slab-On-Deck - Area C	5	29	2/2/2026	2/6/2026	5D - Hol				MEP Rough Slab-On	-Deck - A	Area C	$\langle / / \rangle$	1		
CNST-1920	F/R/P Slab-On-Decks / Roof Pads - Area C	6	29	2/9/2026	2/16/2026	5D - Hol				F/R/P Slab-On-Deck	s / Roof	Pads - Area C		1		
CNST-2010	Cure Slab-On-Deck - Area C	3	39	2/17/2026	2/19/2026	7D - No Hol (MS Cal)	_///			Cure Slab-On-Deck	- Area C			1		
CNST-2100	Set Control & Layout - Slab-On-Deck - Area C	3	102	2/20/2026	2/24/2026	5D - Hol				Set Control & Layou	ut - Slab-	On-Deck - Area C		I		
Concrete Slabs-C	Dn-Grade							/////	<u>///</u>							
Area A			1		1									1		
CNST-1730	Underslab Electrical - Area A	20	8	1/5/2026	1/30/2026	5D - Hol	_		\mathbb{Z}	Underslab Electrical -	Area A			1		
CNST-1740	Underslab Plumbing / Underdrain - Are a A	20	8	1/5/2026	1/30/2026	5D - Hol	_///			Underslab Plumbing /	Underd	rain - Area A		1		
CNST-1930	Prep for Slab-On-Grade - Area A	4	8	2/2/2026	2/5/2026	5D - Hol	_///			Prep for Slab-On-Gra	de - Area	A	$\langle / / \rangle$	1		
CNS1-2000	F/R/P Concrete Slab-On-Grade - Area A	8	8	2/6/2026	2/17/2026	5D - Hol		//		F/R/P Concrete Slat	-On-Gra	ide - Area A				4
CNS1-2110	Cure Slab-On-Grade - Area A	3	12	2/18/2026	2/20/2026	7D - No Hol (MS Cal)	- ///			Cure Slab-On-Grade	- Area A			1		
CNST-2160	Set Control & Layout - Siad-On-Grade - Area A	3	8	2/23/2026	2/25/2026	5D - Hoi				Set Control & Layou	nt - Slad-	-On-Grade - Area A	$\langle / / \rangle$	1		
Area B	Linderslah Electrical Area B	10	21	2/3/2026	2/16/2026	5D Hol				I Indersiah Electrical	Aron B		$\langle / / \rangle$	1		
CNST 1650	Underslab Electrical - Alea D	10	21	2/3/2020	2/16/2020	5D Hol	- ///							1		2
CNST 1750	Pren for Slab On Grade, Area B	3	21	2/3/2020	2/10/2020	5D Hol	-	/		Pren for Slab On Cr			·/·/·/·/			
CNST-17.90	F/R/R Concrete Slab-On-Grade - Area B	5	21	2/20/2026	2/19/2020	5D - Hol	- ///			F/R/P Concrete Sla		ade - Area B	$\langle / / \rangle$	1		
CNST-19/0	Cure Slab-On-Grade - Area B	3	21	2/27/2026	3/1/2026	7D - No Hol (MS Cal)				Cure Slab-On-Grad		R		1		
CNST-2040	Set Control & Lavout - Slab-On-Grade - Area B	3	23	3/2/2026	3/4/2026	5D - Hol	- [///			Set Control & Lavo	ut - Slab	P On-Grade - Area B		1		
Area C		Ű	2.	0/2/2020	0/ 1/2020					eet contion a Eage				l		
CNST-2020	Underslab Electrical - Area C	10	31	2/17/2026	3/2/2026	5D - Hol		//		Underslab Electrica	I-Area			1		A
CNST-2030	Underslab Plumbing / Underdrain - Area C	10	31	2/17/2026	3/2/2026	5D - Hol				Underslab Plumbin		endrain - Area C		1		
CNST-2170	Prep for Slab-On-Grade - Area C	3	31	3/3/2026	3/5/2026	5D - Hol	- ///			Prep for Slab-On-G	rade - Ar	nea C		1		
CNST-2210	F/R/P Concrete Slab-On-Grade - Area C	5	31	3/6/2026	3/12/2026	5D - Hol				F/R/P Concrete SI	ab-On-G	rade - Area C		1		
CNST-2280	Cure Slab-On-Grade - Area C	3	43	3/13/2026	3/15/2026	7D - No Hol (MS Cal)				Cure Slab-On-Gra	de - Area	aC	$\langle / / \rangle$	1		
CNST-2320	Set Control & Layout - Slab-On-Grade - Area C	3	31	3/16/2026	3/18/2026	5D - Hol				Set Control & Lay	out - Sla	b-On-Grade - Area C		1		1
Roof														1		
Area A														I		
CNST-1600	Roof Drains / Rain Leader Piping - Area A	15	8	1/5/2026	1/23/2026	5D - Hol				Roof Drains / Rain Lea	ader Pipi	ing-Area A	$\langle / / \rangle$	1		
CNST-1610	Roof Edge & Parapet Framing - Area A	15	0	1/5/2026	1/23/2026	5D - Hol				Roof Edge & Parapet	Framing	Area A		1		
CNST-1670	Install Roof Blocking & Sheathing - Area A	10	0	1/19/2026	1/30/2026	5D - Hol				Install Roof Blocking &	Sheath	ing - Area A		1		
CNST-1840	Vapor Barrier - Area A	20	0	2/2/2026	2/27/2026	5D - Hol				Vapor Barrier - Area	A			1		
CNST-1890	Rigid Insulation & Cover Board - Area A	20	0	2/3/2026	3/2/2026	5D - Hol				Rigid Insulation & C	over Bo	ard - Area A	$\langle / / \rangle$	1		
CNST-1990	Membrane Roofing - Area A	18	0	2/5/2026	3/2/2026	5D - Hol				Membrane Roofing	- Area A			1		
CNST-2140	Install Flashing & Trim - Area A	30	256	3/3/2026	4/13/2026	5D - Hol				Install Flashing	S Trim - A	Area A				/
CNST-8380	Install Rooftop Equipment Curbs - Area A	15	104	7/29/2026	8/18/2026	5D - Hol				🔲 Instal	Rooftop	p Equipment Curbs - A	rea A	1		
CNST-8390	Set Rooftop Equipment - Area A	3	104	8/19/2026	8/21/2026	5D - Hol				I Set R	looftop E	quipment - Area A		1		
CNST-8400	MEP Connections to Rooftop Equipment - Area A	15	104	8/24/2026	9/14/2026	5D - Hol				🗖 ME	P Conne	ections to Rooftop Equ	uipment	Area A		
CNST-2560	Misc. Roof Finishes (Walkway Pads, Ladders, Snow Guards, Etc.) - Area A	15	149	9/15/2026	10/5/2026	5D - Hol	_///			M	lisc. Roo	f Finishes (Walkway P	ads, Lad	ders, Snow Guards	, Etc.) - A	vrea A
CNST-2720	Roof Inspections & Testing - Area A	5	149	10/6/2026	10/12/2026	5D - Hol		/////	<u>///</u>		loof Insp	ections & Testing - Are	⊧a A			
Area B														1		
CNST-1530	Root Drains / Rain Leader Piping - Area B	10	21	1/26/2026	2/6/2026	5D - Hol	-[///			Roof Drains / Rain Le	ader Pir	ping-Area B		l	V//.	2
CNS1-1540	Koot Edge & Parapet Framing - Area B	10	8	2/2/2026	2/13/2026	5D - Hol				Root Edge & Parape	er Framin	ng-Area B	$\langle / / \rangle$	l		
CNS1-1570	Install Root Blocking & Sheathing - Area B	10	8	2/9/2026	2/20/2026	5D - Hol	-///			Install Root Blocking	& Shea	uning - Area B	$\langle / / \rangle$	1		
CNS1-1680	Vapor Bamer - Area B	15	3	3/2/2026	3/20/2026	5D - Hol		J		vapor Barrier - Are	ж.в/ 		<i></i>			4
CNS1-1710	rugiu insulation & Cover Board - Area B	15	3	3/3/2026	3/23/2020		-[///				Lover E	oparu - Area B	$\langle / / \rangle$	l		2
	Install Electrica & Trim Area P	13	3	3/3/2020	3/23/2020		-///				ng - Area		$\langle / / \rangle$	I		
CNS1-2000		10	201 110	7/20/2020	4/0/2020 8/18/2026		-///					n Equipment Curbo		1		
CNST-2920		10	112	8/10/2020	8/21/2020		-///							1	V//.	2
	MED Connections to Rooffon Equipment Area R	ی ۱۶	119	8/21/2020	0/11/2020			Z	<i>\</i>			ections to Pooffon	lipmont	Area B		; }
01101-0220		10	113	012412020	0/14/2020	101-10			1///			options to i toolitop ⊑qu		,a D		/

Page 9 of 21	Clinton Middle School: Proposal Schedule											Data I	Date 12/:	5/2023
Activity ID	Activity Description	Orig.	Total	Start	Finish	Calendar		0005		0007		0000		
		Dur.	Float											29 M.II.IIA
CNST-3510	Misc. Roof Finishes (Walkway Pads, Ladders, Roof Hatch, Snow Guards, Etc.) - Area B	15	149	9/15/2026	10/5/2026	5D - Hol			Misc Ro	of Finishes (Walkway P	ads. Ladders.	Roof Hatch, Sho	w Guards.	Etc.) - Are
CNST-3870	Roof Inspections & Testing - Area B	5	149	10/6/2026	10/12/2026	5D - Hol			I Roof Ins	pections & Testing - Are	a B		777	
Area C										J				
CNST-1820	Roof Drains / Rain Leader Piping - Area C	10	31	2/9/2026	2/20/2026	5D - Hol		Roof Drains / I	Rain Leader I	Piping - Area C				
CNST-1830	Roof Edge & Parapet Framing - Area C	10	13	2/23/2026	3/6/2026	5D - Hol		Roof Edge &	Parapet Fran	ning - Area C	·/·/·/·		////	
CNST-1910	Install Roof Blocking & Sheathing - Area C	10	13	3/2/2026	3/13/2026	5D - Hol		Install Roof E	locking & Sh	eathing - Are a C				
CNST-2090	Vapor Barrier - Area C	15	8	3/23/2026	4/10/2026	5D - Hol		Vapor Ban	er-Area C	g				
CNST-2150	Rigid Insulation & Cover Board - Area C	15	8	3/24/2026	4/13/2026	5D - Hol		Rigid Insu	ation & Cove	r Board - Area C				
CNST-2270	Membrane Roofing - Area C	13	8	3/26/2026	4/13/2026	5D - Hol		Membrane	Roofing - Ar	eaC				
CNST-2380	Install Flashing & Trim - Area C	15	241	4/14/2026	5/4/2026	5D - Hol		Install Fl	ishina & Trim	-Area C				
CNST-3150	Install Rooftop Equipment Curbs - Area C	15	112	8/19/2026	9/9/2026	5D - Hol			Install Roof	top Equipment Curbs	Area C			
CNST-3450	Set Rooftop Equipment - Area C	5	112	9/10/2026	9/16/2026	5D - Hol			Set Roofto	p Equipment - Area C				
CNST-3530	MEP Connections to Rooftop Equipment - Area C	20	112	9/17/2026	10/14/2026	5D - Hol				nhections to Rooftop	auipment - Ar	rea C		
CNST-4020	Misc. Roof Finishes (Walkway Pads, Ladders, Snow Guards, Etc.) - Area C	15	127	10/15/2026	11/4/2026	5D - Hol			Misc. F	oof Finishes (Walkway	Pads. Ladde	rs. Snow Guards.	Etc.) - Area	аC
CNST-4430	Roof Inspections & Testing - Area C	5	127	11/5/2026	11/11/2026	5D - Hol			Roof 1	nspections & Testing -	Area C	·····	/.///	
Fireproofing														
Area A														
Exterior														
CNST-1880	Install Z-Clips / Track - Exterior - Area A	5	9	2/11/2026	2/17/2026	5D - Hol		Install Z-Clips /	Track - Exteri	or - Area A				
CNST-1980	Spray Fireproofing - Exterior - Area A	5	0	3/3/2026	3/9/2026	5D - Hol		Spray Firepro	ofing Exterio	or - Area A			///	
Second Floor					,,									
CNST-1960	Install Z-Clips / Track - Se cond Floor - Area A	5	27	2/27/2026	3/5/2026	5D - Hol		Install Z-Clips	/ Track - Se o	ond Floor - Area A				
CNST-1970	Install MEP Hangers - Second Floor - Area A	5	32	2/27/2026	3/5/2026	5D - Hol		🚺 Install MEP H	angers - Sec	ond Floor - Area A				
CNST-25 10	Spray Fireproofing - Second Floor - Area A	5	0	4/21/2026	4/27/2026	5D - Hol		Spray Fir	proofing - Se	ond Floor - Area A				
First Floor												/	///	
CNST-2230	Install Z-Clips / Track - First Floor - Area A	5	32	3/6/2026	3/12/2026	5D - Hol		I Install Z-Clips	/ Track - Firs	Floor-Area A				
CNST-2240	Install MEP Hangers - First Floor - Area A	5	32	3/6/2026	3/12/2026	5D - Hol		Install MEP I	lange <mark>rs - Firs</mark>	t Floor - Area A				
CNST-2580	Spray Fireproofing - First Floor - Area A	5	0	4/28/2026	5/4/2026	5D - Hol		🛽 Spray Fi	eproofing - F	irst Floor - Area A				
Area B									///				///	
Exterior														
CNST-1700	Install Z-Clips / Track - Exterior - Area B	5	22	2/18/2026	2/24/2026	5D - Hol		Install Z-Clips	Track - Exte	ior - Area B				
CNST-1780	Spray Fireproofing - Exterior - Area B	5	3	3/24/2026	3/30/2026	5D - Hol		Spray Firep	oofing - Exte	ripr - Area B				
Second Floor														
CNST-1760	Install Z-Clips / Track - Second Floor - Area B	5	60	3/13/2026	3/19/2026	5D - Hol		Install Z-Clip	s / Track - Se	cond Floor - Area B	////		<i></i>	
CNST-1770	Install MEP Hangers - Second Floor - Area B	5	60	3/13/2026	3/19/2026	5D - Hol		Install MEP	langers - Se	cond Floor - Area B				
CNST-2290	Spray Fireproofing - Second Floor - Area B	5	23	5/12/2026	5/18/2026	5D - Hol		I Spray F	reproofing -	Second Floor - Are a B				
First Floor				0/00/0000	0/00/0000				///					
CNS1-2060	Install Z-Clips / Track - Hist Floor - Area B	5	60	3/20/2026	3/26/2026	5D - Hol			s/Irack-Hr	st Floor - Area B				
CNS1-2070	Install MEP Hangers - First Floor - Area B	5	76	3/20/2026	3/26/2026	5D - Hol	{////		Hangers - Fir	St Floor - Area B	<i></i>		·/·/·/····	
CNS1-2350	Spray Fireprooting - First Floor - Area B	5	23	5/19/2026	5/26/2026	5D - Hol		∎ Spray	-ireprooting -	Hirst Floor - Area B				
Area C														
CNST-2130	Install Z.Clins / Track - Exterior - Area C	5	27	2/20/2026	2/26/2026	5D - Hol		I Install Z-Cline	Track - Evto	for - Area C				
CNST-2200	Sprav Firenroofing - Exterior - Area C	5	8	4/14/2026	4/20/2026	5D - Hol				terior - Area C				
Second Floor	opidy methoding Excitor read	0	U	4/14/2020	4/20/2020	OB HO	······································						<i>,,.</i> ,	
CNST-2180	Install Z-Clins / Track - Second Floor - Area C	5	80	3/27/2026	4/2/2026	5D - Hol		I Install Z-Cli	os / Track - S	econd Floor - Area C				
CNST-2190	Install MEP Hangers - Second Floor - Area C	5	85	3/27/2026	4/2/2026	5D - Hol		Install MEE	Handers - S	erond Floor - Area C				
CNST-30.20	Spray Fireproofing - Second Floor - Area C	5	43	6/3/2026	6/9/2026	5D - Hol			Fireproofing	- Second Floor - Area	e.			
First Floor		Ū		0,0,2020	0/0/2020	02 1101								
CNST-2360	Install Z-Clips / Track - First Floor - Area C	5	100	4/3/2026	4/9/2026	5D - Hol		Install Z-Cl	os/Track-F	inst Floor - Area C	·/·/·/		·	
CNST-2370	Install MEP Hangers - First Floor - Area C	5	100	4/3/2026	4/9/2026	5D - Hol		I Install ME	Handers - F	irst Floor - Area C				
CNST-3130	Sprav Fireproofing - First Floor - Area C	5	58	6/10/2026	6/16/2026	5D - Hol			Fireproofing	-First Floor - Area C				
Exterior Envelope		-												
CNST-2120	Exterior LGMF - Area A	15	0	3/10/2026	3/30/2026	5D - Hol		Exterior LG	/F-Area A		/./././		·/·/·/	
CNST-2310	Blocking / Prep at Windows - Area A	15	0	3/17/2026	4/6/2026	5D - Hol			rep at Wind	ows-Area A				
CNST-2340	Insulation & Sheathing - Area A	20	0	3/24/2026	4/20/2026	5D - Hol			& Sheathing	-Area A				
CNST-24 60	Air / Vapor Barrier - Area A	15	0	4/14/2026	5/4/2026	5D - Hol		Air / Van	or Banier - Ar	eaA		ľ		
CNST-2730	Masonry / Stone Assemblies - Area A	30	0	4/28/2026	6/9/2026	5D - Hol			ny / Stone A	ssemblies - Area A		l.		
CNST-3250	Exterior Wall Panels-Area A	20	38	5/5/2026	6/2/2026	5D - Hol			r Wall Panel	s-Area A	·/·/·/·		<i></i>	
CNST-4540	Install Entrance Canopy - Area A	20	207	5/5/2026	6/2/2026	5D - Hol			Entrance Ca	hopy - Area A				
CNST-2570	Install Windows / Glazing Systems - Area A	15	0	5/19/2026	6/9/2026	5D - Hol			Windows / C	azing Systems - Area		l.		
		10		3, 10, 2020	0,0,2020						////	Ľ		

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Activity ID	Activity Description	Orig.	Total	Start	Finish	Calendar	2024		2020
		Dur.	Fioat					1025 2026 2027 2027 2027 2027	
CNST-3690	Install Exterior Lighting & Security Equipment - Area A	10	202	6/10/2026	6/23/2026	5D - Hol		Install Exterior Lighting & Security Equipment - Area A	
CNST-3880	Install Storefronts - Area A	10	202	6/24/2026	7/8/2026	5D - Hol		□ Install Storefronts - Area A	
CNST-4160	Doors & Hardware - Area A	5	202	7/9/2026	7/15/2026	5D - Hol		Doors & Hardware - Area A	·····
CNST-4250	Install Gutters & Downspouts - Area A	10	202	7/16/2026	7/29/2026	5D - Hol		Install Gutters & Downspouts - Area A	
Area B									
CNST-1870	Exterior LGMF - Area B	15	3	3/31/2026	4/20/2026	5D - Hol		Exterior LGMF - Area B	
CNST-1950	Blocking / Prep at Windows - Are a B	15	3	4/7/2026	4/27/2026	5D - Hol		Blocking / Prep at Windows - Are a B	
CNST-2050	Insulation & Sheathing - Area B	20	3	4/14/2026	5/11/2026	5D - Hol		Insulation & Sheathing - Area B	
CNST-2250	Air / Vapor Barrier - Area B	15	3	5/5/2026	5/26/2026	5D - Hol		🔲 Air / Vapor Bamier - Area B	
CNST-2430	Masonry / Stone Assemblies - Area B	30	3	5/27/2026	7/8/2026	5D - Hol		Masonry Stone Assemblies - Area B	
CNST-2330	Install Windows / Glazing Systems - Area B	20	3	6/17/2026	7/15/2026	5D - Hol		Install Windows / Glazing Systems - Area B	
CNST-2930	Exterior Wall Panels-Area B	20	8	7/16/2026	8/12/2026	5D - Hol		Exterior Wall Panels-Area B	
CNST-3240	Install Exterior Lighting & Security Equipment - Area B	10	157	8/13/2026	8/26/2026	5D - Hol		Instal Exterior Lighting & Security Equipment - Area	∋a B
CNST-3460	Install Storefronts - Area B	10	157	8/27/2026	9/10/2026	5D - Hol		Install Storefronts - Area B	
CNST-3670	Doors & Hardware - Area B	5	157	9/11/2026	9/17/2026	5D - Hol		Doors & Hardware - Area B	
CNST-3820	Install Gutters & Downspouts - Area B	10	157	9/18/2026	10/1/2026	5D - Hol		Install Gutters & Downspouts - Area B	
Area C									
CNST-2300	Exterior LGMF - Area C	15	8	4/21/2026	5/11/2026	5D - Hol		Exterior LGMF-Area C	
CNST-2440	Blocking / Prep at Windows - Area C	15	8	4/28/2026	5/18/2026	5D - Hol		Blocking / Prep at Windows - Area C	
CNST-2470	Insulation & Sheathing - Area C	20	8	5/5/2026	6/2/2026	5D - Hol		Insulation & Sheathing - Area C	
CNST-26 10	Air / Vapor Barrier - Area C	15	8	5/27/2026	6/16/2026	5D - Hol		🔲 Air / Vapor Barrier - Area C	
CNST-8370	Masonry / Stone Assemblies - Area C	30	8	6/17/2026	7/29/2026	5D - Hol		Masonry / Stone Assemblies - Area C	
CNST-2740	Install Windows / Glazing Systems - Area C	25	3	7/16/2026	8/19/2026	5D - Hol		Install Windows / Glazing Systems - Area C	
CNST-3700	Exterior Wall Panels - Area C	20	3	8/20/2026	9/17/2026	5D - Hol		Exterior Wall Panels - Area C	
CNST-4180	Install Exterior Lighting & Security Equipment - Area C	10	132	9/18/2026	10/1/2026	5D - Hol		Install Exterior Lighting & Security Equiprhent - A	Area C
CNST-4440	Install Storefronts - Area C	10	132	10/2/2026	10/15/2026	5D - Hol		Install Storefronts - Area C	
CNST-4670	Doors & Hardware - Area C	5	132	10/16/2026	10/22/2026	5D - Hol		Doors & Hardware - Area C	·····
CNST-4750	Install Gutters & Downspouts - Area C	10	132	10/23/2026	11/5/2026	5D - Hol		Install Gutters & Downspouts - Area C	
Interior Finish-Ou	it								
Area A									
Stairs	Install Stair Emmas & Structural Steel Supports Stairs Area A	E	220	E/E/2026	E/11/2026	ED Hal		I Install Stair Emerge 2 Otrustural Staal Supports Stalls Are	
CNST-3210	Place Construct Londings & Stone Steins Area A	5	220	5/5/2020	5/11/2026	5D - Hol		I Install Stall Frames & Structural Steel Supports - Stalls - Ale	saA
CNST-0300	Place Concrete Landings & Steps - Stails - Alea A	4	105	11/10/2026	3/15/2020	5D - Hol		Place Conclete Landings & Steps - Stails - Area A	
CNST-7370	Install Flooring Einishes Stairs Area A	5	5	1/12/2020	4/16/2027	5D Hol			
Flevator		5	5	-,12/2021	4/10/2021	50 - 1101			
CNST-7900	Install Elevator - Area A	30	21	2/12/2027	3/25/2027	5D - Hol		Install Elevator - Area A	
CNST-7910	Test & Inspect Flevator (By Installer) - Area A	5	21	3/26/2027	4/1/2027	5D - Hol		I Test & Inspect Elevator (By Instal	aller) - Area A
CNST-8070	Schedule & Conduct State Elevator Inspection - Area A	10	0	5/3/2027	5/14/2027	5D - Hol		Schedule & Conduct State El	-levator Inspection - Area A
Main Electrical	Mechanical Rooms		Ū	0/0/2021	0,11,2021	02 1101			
CNST-3560	Place Housekeeping Pads - Mechanical Room	3	153	5/5/2026	5/7/2026	5D - Hol		Place Housekeeping Pads - Mechanical Room	
CNST-4190	Set Mechanical / HVAC Equipment (Boilers, Pumps, etc.) - Mechanical Room	20	87	8/12/2026	9/9/2026	5D - Hol		Set Mechanical / HVAC Equipment (Boilers, Pum	nps, etc.) - Mechanical Room
CNST-4720	Pipe Mechanical / HVAC Equipment - Mechanical Room	20	87	9/10/2026	10/7/2026	5D - Hol		Pipe Mechanical / HVAC Equipment - Mechanic	ical Room
CNST-58 80	Set Electrical Gear / Terminations / Permanent Power	20	0	1/7/2027	2/3/2027	5D - Hol		Set Electrical Gear / Terminations / Pe	ermanent Power
CNST-7030	Coordination & Scheduling w/ Utility Company	5	0	2/4/2027	2/10/2027	5D - Hol		Coordination & Scheduling w/ Utility	Company
CNST-7040	Utility Company Install Meter Socket, Energize	1	0	2/11/2027	2/11/2027	5D - Hol		// Utility Company Install Meter Socket,	t, Energize
Cafeteria / Stage	/ Band / Admin				·				
Interior Framin	g								
CNST-3290	Frame Interior Partition Walls - Cafe / Core / Admin	20	0	5/5/2026	6/2/2026	5D - Hol		Frame Interior Partition Walls - Cafe / Core / Admin	
CNST-3300	Set Door Frames - Cafe / Core / Admin	15	34	5/12/2026	6/2/2026	5D - Hol		Set Door Frames - Cafe / Core / Admin	
CNST-3430	Wall Blocking - Cafe / Core / Admin	15	54	5/19/2026	6/9/2026	5D - Hol		Wall Blocking - Cafe / Core / Admin	
CNST-36 10	Frame Ceilings & Soffits - Cafe / Core / Admin	15	49	5/27/2026	6/16/2026	5D - Hol		Frame Ceilings & Soffits - Cafe / Core / Admin	
CNST-3860	Install OH Tracks - Cafe / Core / Admin	10	107	6/10/2026	6/23/2026	5D - Hol		Install OH Tracks - Cafe / Core / Admin	
MEP Rough-Ins									
Overhead ME	PRoughs			- 1 - 1 - 1					
CNST-33 10	Rough In Fire Protection - Cafe / Core / Admin	20	14	5/5/2026	6/2/2026	5D - Hol		Rough In Firle Protection - Cafe / Core / Admin	
CNST-3320	Rough In OH Plumbing - Cafe / Core / Admin	20	14	5/5/2026	6/2/2026	5D - Hol		Rough In OH Plumbing - Cafe / Core / Admin	·····
CNST-3470	Rough In OH Electrical / Low Voltage - Cafe / Core / Admin	20	8	5/19/2026	6/16/2026	5D - Hol		Rough In OH Electrical / Low Voltage - Cafe / Core / Adr	min
CNST-3480	Rough In Mechanical - Cafe / Core / Admin	20	4	5/19/2026	6/16/2026	5D - Hol		Rough In Mechanidal - Cafe / Core / Admin	
In-Wall MEP R				F (0 7 10 7 7 7	0/02/2255				
CNST-3620	Electrical / Low Voltage In-Wall - Cafe / Core / Admin	20	0	5/27/2026	6/23/2026	5D - Hol		Electrical / Low Voltage In-Wall - Cate / Core / Admin	
CNST-3630	Plumbing In-Wall - Cafe / Core / Admin	20	0	5/27/2026	6/23/2026	5D - Hol		Plumbing In-Wall - Cafe / Core / Admin	

Pa	ge 11 of 21	Clinton Middle School: Proposal Schedule								
Activ	ity ID	Activity Description	Orig.	Total	Start	Finish	Calendar	0004	0005	
			Dur.	Float				2024 I D J I FIM AIM J I JI AI SI O N		2026 <u>2027</u> MAIMJIJIAISIOINIDIJIFI TALIJIJ
	CNST-3900	Electrical In-Wall Inspections - Cafe / Core / Admin	1	44	6/23/2026	6/23/2026	5D - Hol			Electrical In-Wall Inspections -
	CNST-39 10	Plumbing In-Wall Inspections - Cafe / Core / Admin	1	44	6/23/2026	6/23/2026	5D - Hol			I Plumbing In-Wall Inspections
	CNST-3990	MEP Rough-In / Framing Inspections - Cafe / Core / Admin	1	43	6/24/2026	6/24/2026	5D - Hol			I MEP Rough-In / Framing Insp
	Finishes									
	CNST-4010	Insulation & GWB - Cafe / Core / Admin	15	43	6/25/2026	7/16/2026	5D - Hol			🔲 Insulation & GWB - Cafe / C
	CNST-4240	Mud, Sand, Tape GWB - Cafe / Core / Admin	15	43	7/10/2026	7/30/2026	5D - Hol			🔲 Mud, Sand, Tape GWB - C
	CNST-4510	Prime & First Coat Paint - Cafe / Core / Admin	15	43	7/22/2026	8/11/2026	5D - Hol			Prime & First Coat Paint -
	CNST-4830	Install ACT Grid - Cafe / Core / Admin	15	58	8/12/2026	9/1/2026	5D - Hol			Instal ACT Grid - Cafe /
	CNST-4840	Millwork / Running Trim / Wall Panels - Cafe / Core / Admin	15	43	8/12/2026	9/1/2026	5D - Hol			Millwork / Running Trim /
	CNST-5220	Install Mechanical Drops / Finishes - Cafe / Core / Admin	10	62	9/2/2026	9/16/2026	5D - Hol			Install Mechanical Drop
	CNST-5230	Install Lighting Fixtures - Cafe / Core / Admin	10	58	9/2/2026	9/16/2026	5D - Hol			Install Lighting Fixtures
	CNST-5240	Install Casework & Countertops - Cafe / Core / Admin	15	58	9/2/2026	9/23/2026	5D - Hol			Install Casework & Cou
	CNST-54 40	MEP Ceiling Inspections - Cafe / Core / Admin	1	62	9/17/2026	9/17/2026	5D - Hol			I MEP Ceiling Inspection
	CNST-5590	Finish Painting - Cafe / Core / Admin	10	58	9/24/2026	10/7/2026	5D - Hol			Finish Painting - Cafe
	CNS1-5600	Install Plumbing Fixtures - Cate / Core / Admin	15	93	9/24/2026	10/14/2026	5D - Hol		/./././.	
	CNS1-5750	Electrical / Fire Alarm Hinishes - Cafe / Core / Admin	15	63	10/8/2026	10/28/2026	5D - Hol			
	CNS1-5760	Communications / Technology Finishes - Cate / Core / Admin	15	98	10/8/2026	10/28/2026	5D - Hol	_ / ///		
	CNS1-5770	Fire Protection Finishes - Cafe / Core / Admin	15	58	10/8/2026	10/28/2026	5D - Hol			
	CNS1-6070	Install Acoustical Ceiling Tiles - Cate / Core / Admin	5	58	10/29/2026	11/4/2026	5D - Hol			
	CNS1-6290	Install Flooring Finishes - Cafe / Core / Admin	15	58	11/5/2026	11/25/2026	5D - Hol			
	CNST-6200	Install Flooring at Stage - Care / Core / Admin	10	78	11/5/2026	11/18/2026	5D - Hol			
	CNS1-66-60	Doors & Hardware - Care / Core / Admin	10	88	11/30/2026	12/11/2026	5D - Hol			
	CNS1-0670	Remaining wall Coverings - Cale / Cole / Admin	10	08	11/30/2026	12/11/2026	5D - Hol			
		Install Signage - Cale / Cole / Admin	5	73	11/30/2020	12/4/2026	5D - Hol	— / ///		
	CNST-0090	Install Visual Display Surfaces - Care / Core / Admin	5	93	11/30/2020	12/4/2020	5D - Hol		, , , , , , , , , , , , , , , , , , ,	
	CNST-6720		5	73	11/30/2020	12/4/2020	5D - Hol			
	Corridor / Share	ad Space Finishes	5	13	11/30/2020	12/4/2020	30 - 110			i install Clage Cult
	CNST-52.50	Millwork / Wall Panels - Corridors - Cafe / Core / Admin	15	43	9/2/2026	9/23/2026	5D - Hol			Millwork / Wall Panels -
	CNST-56 10	Install ACT Grid - Corridors - Cafe / Core / Admin	10	43	9/24/2026	10/7/2026	5D - Hol			Install ACT Grid - Corr
	CNST-57 80	Install Mechanical Drops / Finishes - Corridors - Cafe / Core / Admin	10	67	10/8/2026	10/21/2026	5D - Hol		(-/-/-/-/-/-/-////////////////////////	Install Mechanical D
	CNST-5790	Install Lighting Fixtures - Corridors - Cafe / Core / Admin	10	43	10/8/2026	10/21/2026	5D - Hol			Install Lighting Fixtur
	CNST-5870	Install Plumbing Fixtures - Corridors - Cafe / Core / Admin	5	93	10/15/2026	10/21/2026	5D - Hol			Install Plumbing Fixte
	CNST-5980	MEP Ceiling Inspections - Corridors - Cafe / Core / Admin	1	67	10/22/2026	10/22/2026	5D - Hol			I MEP Ceiling Inspect
	CNST-6050	Finish Painting - Corridors - Cafe / Core / Admin	10	67	10/23/2026	11/5/2026	5D - Hol			Finish Painting - Co
	CNST-6230	Install Acoustical Ceiling Tiles - Corridors - Cafe / Core / Admin	5	67	11/6/2026	11/12/2026	5D - Hol			Install Acoustical C
	CNST-6240	Electrical / Fire Alarm Finishes - Corridors - Cafe / Core / Admin	10	82	11/6/2026	11/19/2026	5D - Hol			Electrical / Fire Ala
	CNST-6250	Communications / Technology Finishes - Corridors - Cafe / Core / Admin	10	82	11/6/2026	11/19/2026	5D - Hol			Communications
	CNST-6260	Fire Protection Finishes - Corridors - Cafe / Core / Admin	10	82	11/6/2026	11/19/2026	5D - Hol			Fire Protection Fin
	CNST-6820	Install Flooring Finishes - Corridors - Cafe / Core / Admin	10	58	11/30/2026	12/11/2026	5D - Hol			Instal Flooring F
	CNST-7050	Doors & Hardware - Corridors - Cafe / Core / Admin	5	78	12/14/2026	12/18/2026	5D - Hol			I Doors & Hardwa
	CNST-7060	Wall Coverings & Signage - Corridors - Cafe / Core / Admin	10	58	12/14/2026	12/28/2026	5D - Hol			🛛 Wal Coverings
	CNST-7070	Install Misc. Accessories - Corridors - Cafe / Core / Admin	5	63	12/14/2026	12/18/2026	5D - Hol			I Install Misc. Aco
	CNST-7180	Install Sidelights & Interior Glazing - Corridors - Cafe / Core / Admin	5	78	12/21/2026	12/28/2026	5D - Hol			Install Sidelight
	Preliminary Pu	nch & Inspections								
	CNST-7360	Fontaine Work to Complete List - Cafe / Core / Admin	5	58	12/29/2026	1/5/2027	5D - Hol			Fontaine Work
	CNST-7440	Fontaine Complete Preliminary Punch List - Cafe / Core / Admin	15	58	1/6/2027	1/26/2027	5D - Hol			Fontaine Co
	CNST-7750	Final Clean - Cafe / Core / Admin	3	58	1/27/2027	1/29/2027	5D - Hol			I Final Clean -
	CNST-78 10	Design Team Punchist Inspection - Cafe / Core / Admin	2	58	2/1/2027	2/2/2027	5D - Hol			Design Tear
	CNST-7830	Contractor Complete Punch List - Cafe / Core / Admin	15	58	2/3/2027	2/23/2027	5D - Hol			Contractor
	CNST-8000	AE Team Back-Punch - Cafe / Core / Admin	5	340	2/24/2027	3/2/2027	5D - Hol			AE Team
	CNST-8050	Fontaine Complete Back-Punch Items - Cafe / Core / Admin	10	340	3/3/2027	3/16/2027	5D - Hol			F ontaine
	Kitchen									
	Interior Framing	g	15		0/0/0000	6/00/0000				
		Frame Interior Partition vvalis - Kitchen	15	0	6/3/2026	6/23/2026	5D - Hol	_ /_ <i>/_/_/</i>	\\	Frame Interior Partition Walls
			15	19	7/00/0000	0/23/2020				
	CINS 1-3140	wall blocking - Nichen	15	35 25	1/23/2026	8/12/2026 8/10/2026	5D - HOI			
			5	35	0/0/2020	0/12/2020	10H - UC			
	Overboad ME									
	CNST-30.90	Rough In Fire Protection - Kitchen	15	14	6/3/2026	6/23/2026	5D - Hol			Rough In Fire Protection - Kitc
	CNST-31.00	Rough In OH Plumbing - Kitchen	15	1/	6/3/2020	6/23/2026	5D - Hol			Rough In OH Plumbing - Kitch
			10	1 14	01012020	0/20/2020	50 - 1101			

			Data Date 12/5/2023
2025	2026	2027	2028 2029
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	I Electrical In	-Wall Inspections - Cafe / Core / Admir	n ////
	I Plumbing I	n-Wall Inspections - Cafe / Core / Admi	n
	I MEP Roug	h-In / Framing Inspections - Cafe / Cor	e / Admin
/	Insulation	& GWB - Cafe / Core / Admin	
	🔲 Mud, Sa	nd, Tape GWB - Cafe / Core / Admin	
		First Cpat Paint - Cafe / Cdre / Admin	י 🛛
	Insta	ACT Grid - Cafe / Core / Admin	
		ork / Running Trim / Wall Panels - Cafe	/ Core / Admin
·		all Mechanical Drops / Finishes - Cafe /	Core / Admin
		all Lighting Fixtures - Cafe / Core / Adm	n (A durin
		all Casework & Countertops - Cale / Co	min
		ich Painting Cafe / Core / Admin	
		stall Plumbing Fixtures - Cafe Core	vet min
/		ectrical / Fire Alarm Enishes - Cafe / C	ore / Admin
		Communications / Technology Finishes	-Cafe / Core / Admin
		ire Protection Finishes - Cafe / Core //	vd min
7 2		nstall Acoustical Ceiling Tiles - Cafe / C	ore / Admin
$\lambda = \lambda$		Install Flooring Finishes - Cafe / Core	/ Ad min
		Install Flooring at Stage - Cafe / Core	/Admin
		Doors & Hardware - Cafe / Core / A	dmin
		Remaining Wall Coverings - Cafe	Core / Admin
		Install Signage - Cafe / Core / Admin	
		Install Visual Display Surfaces - Cafe	/ Core / Admin
		Install Misc. Accessories - Cafe / Core	e / Admin
		Install Stage Curtains - Cafe / Core/	Admin
		work/ Wall Panels - Corridors - Cafe / C	Core / Admin
/	□ Ins	tall ACT Grid - Corridors - Cate / Core/	Admin
		stall Mechanical Drops / Finishes - Cor	ridors - Cafe / Core / Admin
		istall Lighting Fixtures - Corridors - Cafe	/ Core / Admin
		istall Plumbing Fixtures - Condors - Ca	fe / Core / Admin
		IEP Ceiling Inspections - Conidors - Ca	fe / Core / Admin
- <u> </u>		Finish Painting - Comdors - Care / Core	/ Admin
		Electrical / Eiro A h m Eniches - Corrido	s - Cale / Core / Admin
		Communications / Technology Einishe	s - Corridors - Cafe / Core / Admin
		Fire Protection Finishes - Corridors - C	afe / Core / Admin
		Instal Elooring Einishes - Corridors	Cafe / Core / Admin
[][//	-/-/	Doors & Hardware - Corridors - Cafe	/ Core / Admin
7 1		Wall Coverings & Signade - Corrido	ors - Cafe / Core / Admin
λ (2)		Install Misc. Accessories - Corridors	-Cafe / Core / Admin
		I Install Sidelights & Interior Glazing	- Corridors - Cafe / Core / Admin
		Fontaine Work to Complete List	Cafe / Core / Admin
A 12		/ 📕 / Fontaine Complete Preliminary F	Punch List - Cafe / Core / Admin
) (/		/ Final Clean - Cafe / Core/ Admi	n [///]
		I Design Team Punchist Inspection	on - Cafe / Core / Admin
///_	///	Contractor Complete Punch	ist - Cafe / Core / Admin
7 7		AE Team Back-Punch - Cafe	Core / Admin
1 [/		Fontaine Complete Back-Pu	nch Items - Cafe / Qore / Admin
	Frame Inte	rior Partition Walls - Kitchen	
[]		rames - Kitchen	······
$\lambda = \lambda$	□ Uct Door T	ocking -Kitchen	
1 1	I Install	Valk-In Cooler / Freezer - Kitchen	
	· · · · · · · · · · · · · · · · · · ·		
	🔲 Rough In F	ire Protection - Kitchen	
<u>}</u>	🔲 🔲 Rough In 🤇	OH Plumbing - Kitchen	

Pa	age 12 of 21	Clinton Middle School: Proposal Schedule								
Activ	ity ID	Activity Description	Orig.	Total Elect	Start	Finish	Calendar	2024	2026	5 2026 2027
			Dui.	FIDAL					ASIONDJIFMAMJIJ	JASIONDJIFMAMJIJAISIONDJIFI JALIJIJ
	CNST-3190	Rough In OH Electrical / Low Voltage - Kitchen	15	8	6/17/2026	7/8/2026	5D - Hol			Rough In OH Electrical / Low
	CNST-3200	Rough In Mechanical - Kitchen	15	4	6/17/2026	7/8/2026	5D - Hol			🗖 Rough In Mechanical - Kitcher
	In-Wall MEP R	oughs								
	CNST-3340	Electrical / Low Voltage In-Wall - Kitchen	18	0	6/24/2026	7/20/2026	5D - Hol			Electrica / Low Vp Itage In-Wa
	CNST-3350	Plumbing In-Wall - Kitchen	18	0	6/24/2026	7/20/2026	5D - Hol			Plumbing In-Wal - Kitchen
	CNST-3540	Electrical In-Wall Inspections - Kitchen	1	51	7/20/2026	7/20/2026	5D - Hol			I Electrica In-Wall Inspections
	CNST-3550	Plumbing In-Wall Inspections - Kitchen	1	51	7/20/2026	7/20/2026	5D - Hol			I Plumbing In-Wall Inspections
	CNST-3640	MEP Rough-In / Framing Inspections - Kitchen	1	51	7/21/2026	7/21/2026	5D - Hol			I MEP Rough-In / Framing Ins
	Interior Finishes	S								
	CNST-3660	Insulation & GWB Walls - Kitchen	15	35	8/13/2026	9/2/2026	5D - Hol	_///		
	CNST-38 10	Drines Deint Wells - Kitchen	15	35	8/20/2026	9/10/2026	5D - Hol			
	CNST-4000	Prime Paint Wails - Kitchen	10	35	9/3/2026	9/17/2020	5D - Hol			Install Quarticed Calling
	CNST-4140	Install Overhead Colling Dools - Nichen	5	25	9/11/2020	9/17/2020	5D - Hol	/ ././		
	CNST4230	Install FRF Failes - Richen	0	35	9/18/2020	9/23/2020	5D - Hol	— ////		
	CNST/1530			35	10/2/2026	10/8/2026	5D - Hol			
	CNST4650		15	35	10/9/2026	10/29/2026	5D - Hol			
	CNST-4900	Install / ighting Fixtures - Kitchen	10	44	10/23/2026	11/5/2026	5D - Hol			
	CNST-4910	Mechanical Drops / Finishes - Kitchen	10	44	10/23/2026	11/5/2026	5D - Hol			
	CNST-4960	Prep Kitchen Floor - Kitchen	4	35	10/30/2026	11/4/2026	5D - Hol			Prep Kitchen Floor -
	CNST-5040	Install Quarty Tile - Kitchen	15	35	11/5/2026	11/25/2026	5D - Hol			Install Quarry Tile -
	CNST-5120	Doors, Hardware & Glazing - Kitchen	15	44	11/6/2026	11/30/2026	5D - Hol			Doors Hardware
	CNST-5130	Millwork - Kitchen	15	44	11/6/2026	11/30/2026	5D - Hol			Millwork - Kitchen
	CNST-5140	MEP Ceiling Inspections - Kitchen	1	48	11/6/2026	11/6/2026	5D - Hol			I MEP Ceiling Inspect
	CNST-5150	Fire Protection Finishes - Kitchen	10	48	11/9/2026	11/20/2026	5D - Hol			Fire Protection Finis
	CNST-5160	Finish Painting - Kitchen	5	48	11/9/2026	11/13/2026	5D - Hol			I Finish Fainting - Kite
	CNST-5170	Electrical / Fire Alarm Finishes - Kitchen	10	48	11/9/2026	11/20/2026	5D - Hol			Electrical / Fire Alan
	CNST-5290	Communications / Technology Finishes - Kitchen	10	58	11/16/2026	12/1/2026	5D - Hol			Communications /
	CNST-5300	Install Acoustical Ceiling Tiles - Kitchen	5	48	11/16/2026	11/20/2026	5D - Hol			I Install Acoustical C
	CNST-54 60	Install Plumbing Fixtures - Kitchen	15	35	11/30/2026	12/18/2026	5D - Hol			Install Plumbing
	CNST-5470	Install Food Service Equipment - Kitchen	15	35	11/30/2026	12/18/2026	5D - Hol			Install Food Serv
	CNST-5490	Install Remaining Flooring Finishes - Kitchen	10	44	12/1/2026	12/14/2026	5D - Hol			I Instal Remaining
	CNST-5800	Wall Coverings & Signage - Kitchen	10	35	12/21/2026	1/5/2027	5D - Hol			Wall Coverings
	Preliminary Pur	nch & Inspections			·					
	CNST-60.60	Fontaine Work to Complete List - Kitchen	5	35	1/6/2027	1/12/2027	5D - Hol	_///		I Fohtaine Work
	CNST-6090	Fontaine Complete Preliminary Punch List - Kitchen	15	35	1/13/2027	2/2/2027	5D - Hol	_///		
	CNS1-64-80	Final Clean - Kitchen	3	35	2/3/2027	2/5/2027	5D - Hol	_///		
	CNST-6510	Design learn Punchist Inspection - Kitchen	2	35	2/8/2027	2/9/2027	5D - Hol		······ <i>[],[,[,</i>],	V Wesign lean
	CNS1-6570	Contractor Complete Punch List - Kitchen	15	35	2/10/2027	3/2/2027	5D - Hol			
	CNST-7020	AE Ieam Back-Punch - Kitchen	5	35	3/3/2027	3/9/2027	5D - Hol			
	Media Center	Fontaine Complete Back-Punch items - Nichen	10	35	3/10/2027	3/23/2027	5D - HOI			U Fontaine
	Interior Framing	1								
	CNST-2860	Frame Interior Partition Walls - Media Center	15	35	6/24/2026	7/15/2026	5D - Hol	—		Frame Interior Partition Walls
	CNST-2870	Set Door Frames - Media Center	15	54	6/24/2026	7/15/2026	5D - Hol			Set Door Frames - Media Cel
	CNST-29 10	Wall Blocking - Media Center	15	35	7/1/2026	7/22/2026	5D - Hol			Wall Blocking - Media Center
	CNST-3040	Frame Ceilings / Soffits at Perimeter - Media Center	15	35	7/16/2026	8/5/2026	5D - Hol			Frame Ceilings / Soffits at P
	MEP Rough-Ins					<u> </u>				
	Overhead MEP	P Roughs								
	CNST-2880	Rough In Fire Protection - Media Center	15	45	6/24/2026	7/15/2026	5D - Hol			Rough In Fire Protection - Me
	CNST-2890	Rough In OH Plumbing - Media Center	15	45	6/24/2026	7/15/2026	5D - Hol			Rough In OH Plumbing - Med
	CNST-2950	Rough In OH Electrical / Low Voltage - Media Center	15	35	7/9/2026	7/29/2026	5D - Hol			Rough In OH Electrical / Lov
	CNST-2960	Rough In Mechanical - Media Center	15	35	7/9/2026	7/29/2026	5D - Hol			🔲 Rough in Mechanical - Medi
	In-Wall MEP R	oughs		1						
	CNST-30 50	Electrical / Low Voltage In-Wall - Media Center	15	35	7/21/2026	8/10/2026	5D - Hol	_///		Electrical / Low Voltage In -
	CNST-3060	Plumbing In-Wall - Media Center	15	35	7/21/2026	8/10/2026	5D - Hol	/ //		Plumbing In-Wall - Media C
	CNST-3260	Electrical In-Wall Inspections - Media Center	1	36	8/10/2026	8/10/2026	5D - Hol	/ ///		Electrical in-Wall Inspection
	CNST-3270	Plumping In-Wall Inspections - Media Center	1	36	8/10/2026	8/10/2026	5D - Hol		······	I Plumbing in-Wall Inspection
	CNST-3280	MEP Rough-In / Framing Inspections - Media Center	1	35	8/11/2026	8/11/2026	5D - Hol			I MEP Rough-In/ Framing Ir
	FINISNES	Inculation & CW/P Modia Conter	45	25	0/40/0000	0/1/2020				
	CNST 25 20	Mud. Sand. Tape GWB - Media Center	15	30	8/26/2020	9/1/2020	5D - HOI			
	01101-0020	וזיומי, סמוים, ומףט סיי ט - וזיוכעומ טכוונכו	10	- 55	012012020	0/10/2020	JD - 1101		r////	

					Data	Date 12/5/20)23
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	\square	Rough In	OH Electrical / Low Voltage -	Kitchen		777	
		Rough In	Mechanical - Kitchen				
//			/////	/. /. /. /			
		Electrica	/ Low Voltage In-Wall - Kitch	en			
		Plumbing	1 In-Wall - Kitchen				
		l Electrica	In-Wall Inspections - Kitchen				
			In-Wall Inspections - Kitcher				
			ugn-in / Framing Inspections	Kilchen		/./././.	
			tion & CWB Walls - Kitchen				
			Sand Tane GWB Walls - Kit	chan			
			Paint Walls - Kitchen	Cricit			
		I Inst	all Overhead Coiling Doors - k	litchen			
<u></u>		l Ins	all FRP Panels - Kitchen				
		l Ins	tall Kitchen Hood & Controls	Kitchen			
		l In	stall Ansul System In Hood - H	Kitchen			
			nstall ACT Grid - Kitchen				
			Install Lighting Fixtures - Kitch	en			
			Mechanical Drops / Finishes -	Kitchen		////	
		0	Prep Kitchen Floor - Kitchen				
			Install Quarry Tile - Kitchen				
			Doors Hardware & Glazing	- Kitchen			
			Millwork - Kitchen				
		I	MEP Ceiling Inspections - Kit	chen			
			Fire Protection Finishes - Kite	chen			
		1	Finish Painting - Kitchen				
			Electrical / Fire Alarm Finishe	s-Kitchen			
			Communications / Technolo	gy Finishes	-Kitchen		
		0	Install Acoustical Ceiling Tile	s - Kitchen			
			Install Plumbing Fixtures -	Kitchen			
			Install Food Service Equip	ment - Kitch	en		
			I Instal Remaining Flooring	Finishes - K	itchen		
/			Wall Coverings & Signa	e - Kitchen		////	
			I Fontaine Work to Comp	llete List - Ki	tchen		
			Hontaine Complete Pr	eliminary Pu	nch List - Kitchen		
			Final Clean - Kitchen		Kitah an		
				st inspection	- Kilchen	. <i>[. [.].].</i>	
					h Itoms Kitchon		
				e Back-i une			
		Frame In	terior Partition Walls - Media (Center		· / / / / / / · · · · · · · ·	
		Set Door	Frames - Media Center				
		🗖 Wall Blo	king - Media Center				
		🗖 Frame	Ceilings/ Soffits at Perimeter	Media Cen	iter		
		Rough Ir	Fire Protection - Media Cent	er			
		Rough Ir	OH Plumbing - Media Cente	r///			
		Rough	n OH Electrical / Low Voltage	-Media Cer	nter		
/ /		Rough	n Mechanical - Media Center	////		////	
			at / Low Voltage In-Wall - Me	lla Center			
		Plumbi	ng in-wall - Media Center			///>	
			ai in-vvaii inspections - Media	Center		////	
·/-	/./././	I Plumbi	ng in-vyall Inspections - Medi			/////	
		I MEP F	ougn-in/ Framing Inspection	s - Iviedia Ce	enter		
			tion & GWR Madia Contar			///>	
			Sand Tape GWP Modia	enter			
	Y///		, Janu, Tape Gwb - Wedla C	Gniel			

Page 13 of 21	Clinton Middle School: Proposal Schedule						Data Date 12/5/20
Activity ID	Activity Description	Orig.	Total	Start	Finish	Calendar	
		Dur.	Float				2024 2025 2026 2027 2028 2029
CNST-3790	Prime & First Coat Paint - Media Center	15	35	9/8/2026	9/28/2026	5D - Hol	
CNST-4110	Install ACT Grid - Media Center	15	35	9/29/2026	10/19/2026	5D - Hol	
CNST-4120	Millwork / Running Trim / Wall Panels - Media Center	15	50	9/29/2026	10/19/2026	5D - Hol	Millwork Running Trim / Wall Panels Media Center
CNST-44.80	Install Mechanical Drops / Finishes - Media Center	10	39	10/20/2026	11/2/2026	5D - Hol	Install Mechanical Drops / Finishes - Media Center
CNST-44 90	Install Lighting Fixtures - Media Center	10	39	10/20/2026	11/2/2026	5D - Hol	I Install Lighting Fixtures - Media Center
CNST-4500	Install Casework & Countertops - Media Center	15	35	10/20/2026	11/9/2026	5D - Hol	Install Gasework & Countertops - Media Center
CNST-47 10	MEP Ceiling Inspections - Media Center	1	39	11/3/2026	11/3/2026	5D - Hol	I MEP Ceiling Inspections - Media Center
CNST-4820	Finish Painting - Media Center	10	35	11/10/2026	11/23/2026	5D - Hol	I Finish Painting - Media Center
CNST-50 10	Electrical / Fire Alarm Finishes - Media Center	15	40	11/24/2026	12/16/2026	5D - Hol	Electrical / Fire Alarm Finishes - Media Center
CNST-50 20	Communications / Technology Finishes - Media Center	15	65	11/24/2026	12/16/2026	5D - Hol	J Communications / Technology Finishes - Media Center
CNST-50 30	Fire Protection Finishes - Media Center	15	35	11/24/2026	12/16/2026	5D - Hol	I Fire Protection Finishes - Media Center
CNST-54 30	Install Acoustical Ceiling Tiles - Media Center	5	35	12/17/2026	12/23/2026	5D - Hol	I Install Acoustical Ceiling Tiles - Media Center
CNST-5700	Install Flooring Finishes - Media Center	15	35	12/24/2026	1/15/2027	5D - Hol	Install Flooring Finishes Media Center
CNST-5930	Doors & Hardware - Media Center	10	53	1/18/2027	1/29/2027	5D - Hol	Doors & Hardware - Media Center
CNST-5940	Remaining Wall Coverings - Media Center	10	35	1/18/2027	1/29/2027	5D - Hol	I Remaining Wall Coverings - Media Center
CNST-5950	Install Signage - Media Center	5	40	1/18/2027	1/22/2027	5D - Hol	I Install Signage - Media Center
CNST-5960	Install Visual Display Surfaces - Media Center	5	60	1/18/2027	1/22/2027	5D - Hol	1 1 Install Visual Display Surfaces - Media Center
CNST-5970	Install Misc. Accessories - Media Center	5	40	1/18/2027	1/22/2027	5D - Hol	I Install Misc. Accessories - Media Center
CNST-6170	Install Window Shades - Media Center	5	53	2/1/2027	2/5/2027	5D - Hol	I Install Window Shades - Media Center
Preliminary	Punch & Inspections						
CNST-6280	Fontaine Work to Complete List - Media Center	5	35	2/1/2027	2/5/2027	5D - Hol	I I fontaine Work to Complete List - Media Center
CNST-64.00	Fontaine Complete Preliminary Punch List - Media Center	15	35	2/8/2027	2/26/2027	5D - Hol	I Fontaine Complete Preliminary Punch List - Media Center
CNST-68 10	Final Clean - Media Center	3	35	3/1/2027	3/3/2027	5D - Hol	I Final Clean - Media Center
CNST-68.60	Design Team Punchist Inspection - Media Center	2	35	3/4/2027	3/5/2027	5D - Hol	I Design Team Punchist Inspection - Media Center
CNST-6910	Contractor Complete Punch List - Media Center	15	35	3/8/2027	3/26/2027	5D - Hol	I Contractor Complete Punch List - Media Center
CNST-7350	AE Team Back-Punch - Media Center	5	317	3/29/2027	4/2/2027	5D - Hol	I AE Team Back-Punch - Media Center
CNST-7430	Fontaine Complete Back-Punch Items - Media Center	10	317	4/5/2027	4/16/2027	5D - Hol	I Fontaine Complete Back-Punch Items - Media Center
Locker Room	is / Supporting Areas						
	ning	45	0	0/40/2020	40/0/2020		
CNST-8410	Frame Intenor Partition Walls - Locker Rooms / Supporting	15	8	9/18/2026	10/8/2026	5D - Hol	Frame Interior Partition vvails - Locker Rooms / Supporting
CNS1-8430	Well Decking Lecker Rooms / Supporting	15	24	9/18/2026	10/8/2020	5D - Hol	
CNST-8440	Vali Biocking - Locker Rooms / Supporting	15	19	9/25/2026	10/15/2026	5D - Hol	Vian Biocong - Locker Rooms / Supporting
MER Rough	Frame Cenings & Somis - Locker Rooms / Supporting	10	9	10/16/2026	10/29/2026	5D - HOI	
	AFP Roughs						
CNST-845	0 Rough In Fire Protection - Locker Rooms / Supporting	15	23	9/18/2026	10/8/2026	5D - Hol	Bough In Fire Protection - Locker Rooms / Supporting
CNST-846	0 Rough In OH Plumbing - Locker Rooms / Supporting	15	23	9/18/2026	10/8/2026	5D - Hol	Rough In DH Plumbing - Locker Rooms/ Supporting
CNST-848	0 Rough In Mechanical - Locker Rooms / Supporting	15	13	10/2/2026	10/22/2026	5D - Hol	Rough In Mechanical - Locker Rooms Supporting
CNST-847	0 Rough In OH Electrical / Low Voltage - Locker Rooms / Supporting	15	8	10/9/2026	10/29/2026	5D - Hol	Rough Im OH Electrical / Low Voltage - Locker Rooms / Surporting
In-Wall ME	PRoughs					-	
CNST-850	0 Electrical / Low Voltage In-Wall - Locker Rooms / Supporting	15	5	10/14/2026	11/3/2026	5D - Hol	Electrical / Low Voltage In-Wall - Locker Rooms / Supporting
CNST-853	0 Plumbing In-Wall - Locker Rooms / Supporting	15	5	10/14/2026	11/3/2026	5D - Hol	I Plumbing In-Wall - Locker Rooms / Supporting
CNST-851	0 Electrical In-Wall Inspections - Locker Rooms / Supporting	1	6	11/3/2026	11/3/2026	5D - Hol	I Electrical In-Wall Inspections Locker Rooms / Supporting
CNST-852	0 Plumbing In-Wall Inspections - Locker Rooms / Supporting	1	6	11/3/2026	11/3/2026	5D - Hol	I Plumbing In-Wall Inspections - Locker Rooms / Supporting
CNST-849	0 MEP Rough-In / Framing Inspections - Locker Rooms / Supporting	1	5	11/4/2026	11/4/2026	5D - Hol	I MEP Rough-In / Framing Inspections + Locker Rooms / Supporting
Finishes							
CNST-8540	Insulation & GWB - Locker Rooms / Supporting	15	5	11/5/2026	11/25/2026	5D - Hol	I Insulation & GWB - Locker Rooms / Supporting
CNST-8550	Mud, Sand, Tape GWB - Locker Rooms / Supporting	15	5	11/19/2026	12/11/2026	5D - Hol	i Mud, Sand, Tape GWB - Locker Rooms / Supporting
CNST-8560	Prime & First Coat Paint - Locker Rooms / Supporting	15	5	12/3/2026	12/23/2026	5D - Hol	Prime & First Coat Paint Locker Rooms / Supporting
CNST-8570	Install ACT Grid - Locker Rooms / Supporting	15	5	12/24/2026	1/15/2027	5D - Hol	Install ACT Grid - Locker Rooms/ Supporting
CNST-8640	Millwork / Running Trim / Wall Panels - Locker Rooms / Supporting	15	20	12/24/2026	1/15/2027	5D - Hol	Millwork / Running Trim / Wall Panels - Locker Rooms / Supporting
CNST-8690	Tile - Toilet Rooms - Locker Rooms / Supporting	15	302	12/24/2026	1/15/2027	5D - Hol	Tile - Toilet Rooms - Locker Rooms / Supporting
CNST-8580	Install Mechanical Drops / Finishes - Locker Rooms / Supporting	10	9	1/18/2027	1/29/2027	5D - Hol	I Install Mechanical Drops / Finishes - Locker Rooms / Supporting
CNST-8590	Install Lighting Fixtures - Locker Rooms / Supporting	10	9	1/18/2027	1/29/2027	5D - Hol	Install Lighting Fixtures - Locket Rooms / Supporting
CNST-8730	Install Casework & Countertops - Locker Rooms / Supporting	15	5	1/18/2027	2/5/2027	5D - Hol	Install Casework & Countertops - Locker Rooms / Supporting
CNST-8930	Install Lockers - Locker Rooms / Supporting	15	5	1/18/2027	2/5/2027	5D - Hol	
	IVIEr Ceiling Inspections - Locker Rooms / Supporting Finish Deinting Locker Rooms / Supporting	1	9	2/1/2027	2/1/2027		The Ceiling Inspections - Locker Rooms / Supporting
CNS1-8660	Finish Painting - Locker Rooms / Supporting	10	5	2/0/2027	2/19/2027		Light Planting - Locker Rooms / Supporting
	Electrical / Eiro A him Eniches - Locker Rooms / Supporting	15	20/	210/2021	2/20/2027		I Install Plumbing Fixtures - Locker Rooms / Supporting
	Communications / Technology Einiches Locker Rooms / Supporting	15	10	2/22/2027	3/12/2027		Electrical / File A and Fibishes - Locker Rooms / Supporting
	Communications / reciminicity rinishes - Locker Rooms / Supporting	10	201 E	2/22/2027	3/12/2027		
	Fire Protection Finishes - Locker Rooms / Supporting	15	Э	212212021	3/12/2021	10H - UC	

Р	age 14 of 21	Clinton Middle School: Proposal Schedule						Data Date 12/5/2023
Act	ivity ID	Activity Description	Orig.	Total	Start	Finish	Calendar	
			Dur.	Float				2024 2025 2026 2027 2028 2029
		Tailet Compating Tailet Decine Lector Decine / Currenting		007	2/4/2027	2/5/20027		
	CNST-07-00	Toilet Room Accessories Toilet Rooms - Locker Rooms / Supporting	5	207	3/1/2027	3/5/2027		Toilet Compartments - Joliet Rooms - Locker Rooms / Supporting
	CNST-07 10	Install Acounting Colling Tiles Locker Rooms / Supporting	5	201	3/6/2027	3/12/2027		I lotter Room Accessories - Toilet Rooms - Locker Rooms / Supporting
	CINST-80 10	Install Acoustical Celling Ties - Locker Rooms / Supporting	5	5	3/15/2027	3/19/2027	5D - Hol	
	CNS1-86-30	Install Flooring Finishes - Locker Rooms / Supporting	15	5	3/22/2027	4/9/2027	5D - Hol	
	CNS1-80-50	Doors & Hardware - Locker Rooms / Supporting	10	2//	4/12/2027	4/23/2027	5D - Hol	Dools & Hardware - Looker Rooms / Supporting
	CINS 1-80 80	Remaining waii Coverings - Locker Rooms / Supporting	10	257	4/12/2027	4/23/2027	5D - Hoi	Remaining way Coverings - Locker Rooms / Supporting
	CNS1-8750	Install Signage - Locker Rooms / Supporting	5	262	4/12/2027	4/16/2027	5D - Hol	I Install Signage -Locker Rooms / Supporting
	CNS1-8760	Install Visual Display Surfaces - Locker Rooms / Supporting	5	282	4/12/2027	4/16/2027	5D - Hol	I Install Visual Display Surfaces - Locker Rooms // Supporting
	CNS1-8770	Install Misc. Accessories - Locker Rooms / Supporting	5	262	4/12/2027	4/16/2027	5D - Hol	I Install Misc. Accessories Locker Rooms / Supporting
	CNST 90 10	Fontaine Work to Complete List Locker Reams / Supporting	5	257	4/26/2027	4/20/2027	5D Hol	L Easteine Watthe Complete List Leaker Resma / Supporting
	CNS1-09 10	Fontaine Work to Complete List - Locker Rooms / Supporting	5	207	4/20/2027	4/30/2027		Fontaine Wolkto Complete List - Locker Rooms/ Supporting
	CNS1-9000	Final Olarge Lealer Preliminary Punch List - Locker Rooms / Supporting	15	257	5/3/2027	5/21/2027	5D - Hol	Final Competer Pleiminary Punch List Locker Rooms / Sup
	CNS1-8940	Final Clean - Locker Rooms / Supporting	3	257	5/24/2027	5/26/2027	5D - Hoi	I Final Clean - Locker Rooms / Supporting
	CNS1-8950	Design learn Punchist Inspection - Locker Rooms / Supporting	2	257	5/27/2027	5/28/2027	5D - Hol	
	CNS1-9010	Contractor Complete Punch List - Locker Rooms / Supporting	15	257	6/1/2027	6/21/2027	5D - Hol	Contractor Complete Punch List - Locker Roomsi/ Supporting
	CNS1-9020	AE leam Back-Punch - Locker Rooms / Supporting	5	257	6/22/2027	6/28/2027	5D - Hol	I AE learn Back-Puttor - Locker Rooms / Supporting
	CNST-9030	Fontaine Complete Back-Punch Items - Locker Rooms / Supporting	10	257	6/29/2027	7/13/2027	5D - Hol	Fontaine Complete Back-Punch Items Locker Rooms / Sup
	Gymnasium							
	Interior Framing		45	00	0/40/0000	40/0/0000		
	CNS14390	Framing (As Required) - Gymnasium	15	03	9/18/2026	10/8/2026	5D - Hol	
	CNS1-44-00	Set Door Frames - Gymnasium	15	68	9/18/2026	10/8/2026	5D - Hoi	
	CNS14520	Wall Blocking - Gymnasium	15	63	9/25/2026	10/15/2026	5D - Hol	Wall Blocking - Gymnasium
	MEP Rough-Ins		45	07	0/40/0000	40/0/0000	50	
	CNS1-43-30	Fire Protection Rough - Gymnasium	15	67	9/18/2026	10/8/2026	5D - Hoi	
	CNS1-4340	Plumbing Rough - Gymnasium	15	67	9/18/2026	10/8/2026	5D - Hol	Plumbing Rough - Gymnasium
	CNS1-4620	Mechanical Rough - Gymnasium	15	57	10/2/2026	10/22/2026	5D - Hol	Miechanidal Rough - Gymnasium
	CNST-4610	Electrical / Low Voltage Rough - Gymna sium	15	52	10/9/2026	10/29/2026	5D - Hol	Electrical / Low Voltage Rough - Gymnasium
	CNST-4940	MEP Rough Inspections - Gymnasium	1	52	10/30/2026	10/30/2026	5D - Hol	I MEP Rough Inspections - Gymnasium
	Interior Finishes	S				44/0/0000		
	CNST-5270	Insulation & GWB Walls - Gymnasium	5	52	11/2/2026	11/6/2026	5D - Hol	I Insulation & GWB Walls - Gymnasium
	CNS1-5370	Mud, Sand, Tape GWB Walls - Gymnasium	5	52	11/9/2026	11/13/2026	5D - Hol	I Mud, Sand, Tape GWB Walls - Gymnasium
	CNS1-54-50	Paint Overhead Decking / Structure / MEPs - Gymnasium	5	52	11/16/2026	11/20/2026	5D - Hol	Paint Overhead Decking / Structure / MEPs - Gymnasium
	CNST-56 20	Prime Paint Walls - Gymnasium	5	53	11/23/2026	12/1/2026	5D - Hol	Prime Paint Walls - Gymnasium
	CNST-6520	Install Plumbing Fixtures - Gymnasium	5	7	2/8/2027	2/12/2027	5D - Hol	Install Plumbing Fixtures - Gymnasium
	CNST-66 10	Install Lighting Fixtures - Gymnasium	10	1	2/8/2027	2/19/2027	5D - Hol	Install Lighting Fixtures - Gymnasium
	CNST-6620	Mechanical Drops / Finishes - Gymnasium	10	1	2/8/2027	2/19/2027	5D - Hol	Mechanical Drops / Finishes _ Gymnasium
	CNST-68.80	MEP Ceiling Inspections - Gymnasium	1	1	2/22/2027	2/22/2027	5D - Hol	MEP Ceiling Inspections - Gymnasium
	CNST-6920	Painting - Gymnasium	5	1	2/23/2027	3/1/2027	5D - Hol	I Painting - Gymnasium
	CNST-6930	MEP Finishes - Gymnasium	5	14	2/23/2027	3/1/2027	5D - Hol	I MEP Finishes - Gymnasium
	CNST-7100	Doors, Hardware & Glazing - Gymnasium	5	14	3/2/2027	3/8/2027	5D - Hol	Doors, Hardware & Glazing - Gymnasium
	CNST-7160	Install Overhead Gym Equipment - Gymnasium	8	1	3/2/2027	3/11/2027	5D - Hol	Install Overhead Gym Équipment - Gymnasium
	CNST-7330	Install Wall Panels / Custom Coverings - Gymnasium	5	1	3/12/2027	3/18/2027	5D - Hol	Install Wall Panels / Custom Coverings - Gymnasium
	CNST-74 10	Install Wall Pads - Gymnasium	5	1	3/19/2027	3/25/2027	5D - Hol	I Install Wall Pads - Gymnasium
	CNST-7580	Install Gym Flooring - Gymnasium	10	1	3/26/2027	4/8/2027	5D - Hol	Install Gym Flooring - Gymasium
	CNST-7720	Install Line Striping & Symbols - Gymnasium	3	3	4/9/2027	4/13/2027	5D - Hol	I Install Line Striping & Symbols - Gymnasium
	CNST-7730	Install Signage & Misc Accessories - Gymna sium	5	1	4/9/2027	4/15/2027	5D - Hol	I Install Signage & Misc Accessories - Gymna sium
	CNST-7740	Install Bleachers - Gymnasium	5	1	4/9/2027	4/15/2027	5D - Hol	I Install Bleachers - Gymnasium
	Preliminary Pu	nch & Inspections						
	CNST-7820	Fontaine Work to Complete List - Gymnasium	5	1	4/16/2027	4/22/2027	5D - Hol	Fontaine Work to Complete List - Gymnasium
	CNST-7920	Fontaine Complete Preliminary Punch List - Gymnasium	10	1	4/23/2027	5/6/2027	5D - Hol	Fontaine Complete Preliminary Punch List - Gymnasum
	CNST-8040	Final Clean - Gymnasium	3	1	5/7/2027	5/11/2027	5D - Hol	🛛 🖉 🖉 🖉 🖉 🖉 🖉 🖉 🖉 🖉 🖉
	CNST-8100	Design Team Punchist Inspection - Gymnasium	2	1	5/12/2027	5/13/2027	5D - Hol	I Design Te am Punchiist Inspection - Gymnasium
	CNST-8130	Contractor Complete Punch List - Gymnasium	5	278	5/14/2027	5/20/2027	5D - Hol	Contractor Complete Punch List - Gymnasium
	CNST-82 10	AE Team Back-Punch - Gymnasium	5	278	5/21/2027	5/27/2027	5D - Hol	I AE Team Back-Punch - Gymnasium
	CNST-8290	Fontaine Complete Back-Punch Items - Gymnasium	10	278	5/28/2027	6/11/2027	5D - Hol	Fontaine Complete, Back-Punch Items - Gymnasium
	Area B							
	Stairs							
	CNST-2400	Install Stair Frames & Structural Steel Supports - Stairs - Area B	5	210	5/27/2026	6/2/2026	5D - Hol	I Install Stair Frames & Structural Steel Supports - Stairs - Are a B
	CNST-24 20	Place Concrete Landings & Steps - Stairs - Area B	10	210	6/3/2026	6/16/2026	5D - Hol	Place Condrete Landings & Steps - Stairs - Area B
	CNST-6540	Install Handrails - Stairs - Area B	5	92	12/4/2026	12/10/2026	5D - Hol	I Install Handrails - Stairs - Area B
	CNST-6590	Install Flooring Finishes - Stairs - Area B	5	12	4/6/2027	4/12/2027	5D - Hol	Install Flooring Finishes - Stairs - Area B
	Second Floor - A	rea B						

Page 15 of 21	Clinton Middle School: Proposal Schedule									Data Date 12/5/2023
Activity ID	Activity Description	Orig.	Total	Start	Finish	Calendar				
		Dur.	Float				2024	2025 2026	2027	2028 2029
							IDJIFIMAMJIJIASIDNE	UTEMAMJIJASIJNDJEMAMJIJ	<u>Aladudile la Inteladudie.</u>	MAMJJIASIJNDJIFMAMJJIA
Interior Framing										
CNST-2520	Frame Interior Partition Walls - Second Floor - Area B	15	3	6/24/2026	7/15/2026	5D - Hol			-rame Interior Partition Walls - Second Floor - /	krea B
CNST-2530	Set Door Frames - Second Floor - Are a B	15	19	6/24/2026	7/15/2026	5D - Hol			Set Door Frames - Second Floor - Area B	
CNST-2590	Wall Blocking - Second Floor - Area B	15	14	7/1/2026	7/22/2026	5D - Hol			Wall Blocking - Second Floor - Area B	
CNST-26 50	Frame Ceilings & Soffits - Second Floor - Area B	15	4	7/16/2026	8/5/2026	5D - Hol			Frame Ceilings & Soffits - Second Floor - Are	a B
MEP Rough-Ins										
	2 Roughs									
	Bough In Fire Protection - Second Floor - Area R	15	14	6/24/2026	7/15/2026	ED. Hal	{////////////////////////////////		Dough In Fire Protection Second Floor Area	k
CINS1-2540	Rough III File Protection - Second Floor - Area B	15	14	0/24/2020	7/15/2020				Cough in File Protection - Second Flow, - Area	<u>٢</u>
CNST-2550	Rough In OH Plumbing - Second Floor - Area B	15	14	6/24/2026	7/15/2026	5D - Hol			Rough In OH Plumbing - Second Floor - Area f	1 ///
CNST-2630	Rough In Mechanical - Second Floor - Area B	15	4	7/9/2026	7/29/2026	5D - Hol			Rough In Mechanical - Second Floor - Area B	
CNST-2620	Rough In OH Electrical / Low Voltage - Second Roor - Area B	15	3	7/16/2026	8/5/2026	5D - Hol			Rough In OH Electrical / Low Voltage - Seco	nd Floor-Area B
In-Wall MEP R	oughs									
CNST-2660	Electrical / Low Voltage In-Wall - Second Floor - Area B	15	0	7/21/2026	8/10/2026	5D - Hol		·/-/-/	Electrical / Low Voltage In-Wall - Second Fig	or - Area B
CNST 26 70	Diumbing In Wall, Second Fleer, Area B	10	0	7/21/2020	9/10/2020	5D Hal			Diumber 12 Well Second Fleer Area P	
CIN31-2070		15	0	1/21/2020	0/10/2020				Plumbing m-vvali - Second Floor - Alear B	1 ////
CNST-2790	Electrical In-Wall Inspections - Second Floor - Area B	1	1	8/10/2026	8/10/2026	5D - Hol			Electrical In-Wall Inspections - Second Floor	Area B
CNST-2800	Plumbing In-Wall Inspections - Second Floor - Area B	1	1	8/10/2026	8/10/2026	5D - Hol			Plumbing In-Wall Inspections - Second Floor	-Area B
CNST-2820	MEP Rough-In / Framing Inspections - Second Floor - Area B	1	0	8/11/2026	8/11/2026	5D - Hol			MEP Rough-In / Framing Inspections - Seco	nd Floor - Area B
Classroom Fini	shes									
CNST-2900	Insulation & GWB - Second Floor - Area B	15	0	8/12/2026	9/1/2026	5D - Hol			Insulation & GWB - Second Floor - Area B	
CNST 20 70	Mud Sand Tana CW/P. Second Elear Area P.	15	0	8/26/2026	0/16/2026	5D Hol			Mud Sand Tana CWR. Sacond Elect	
CN31-2970		10	0	8/20/2020	9/10/2020	5D - HUI				
CNST-3120	Prime & First Coat Paint - Second Floor - Area B	15	0	9/8/2026	9/28/2026	5D - Hol			Prime & First Coat Paint - Second Floor	Area B
CNST-3390	Install ACT Grid - Second Floor - Area B	15	15	9/29/2026	10/19/2026	5D - Hol			Install ACT Grid - Second Floor - Area F	<u> </u>
CNST-34 00	Millwork / Running Trim / Wall Panels - Second Floor - Area B	15	0	9/29/2026	10/19/2026	5D - Hol			Millwork / Running Trim / Wall Panels -	Second Floor - Area B
CNST-34 10	Tile - Toilet Rooms - Second Floor - Area B	15	15	9/29/2026	10/19/2026	5D - Hol			☐ Tile - Toilet Rooms - Second Floor - Are	a B
CNST-37 10	Install Mechanical Drops / Finishes - Second Floor - Area B	10	15	10/20/2026	11/2/2026	5D - Hol			□ Install Mechanical Drops / Finishes - 5	Second Floor - Area B
CNET 27 20		10	16	10/20/2020	11/2/2020	5D Hal				
CN31-37 20		10	10	10/20/2020	11/2/2020	5D - HUI				
CNS1-3730	Install Casework & Countertops - Second Floor - Area B	15	20	10/20/2026	11/9/2026	5D - Hol		//////////////////////////////////////	Install Qasework & Countertops - Sec	pnd Floor - Area B
CNST-37 50	Install Lockers / Cubbies - Second Floor - Area B	15	20	10/20/2026	11/9/2026	5D - Hol			Install Lockers / Cubbies - Second Fit	Jor - Area B
CNST-3890	MEP Ceiling Inspections - Second Floor - Area B	1	24	11/3/2026	11/3/2026	5D - Hol			I MEP Ceiling Inspections - Second Flo	Jpr-Area B
CNST-4040	Finish Painting - Second Floor - Area B	10	20	11/10/2026	11/23/2026	5D - Hol			Finish Painting - Second Floor - Area	a B
CNST-40.50	Install Plumbing Fixtures - Second Floor - Area B	15	40	11/10/2026	12/2/2026	5D - Hol			Install Plumbing Fixtures - Second /	Floor - Area B
CNST 4260	Electrical / Fire A ham Enisted Second Poor Area P	15	25	11/24/2026	12/16/2026					hoor floor Area P
CN31-4200		15	20	11/24/2020	12/10/2020	5D - HUI		·////		
CNS1-4270	Communications / Technology Finishes - Second Floor - Area B	15	65	11/24/2026	12/16/2026	5D - Hol			Communications / Technology Fini	shes-Second Floor-Area B
CNST-4280	Fire Protection Finishes - Second Floor - Area B	15	20	11/24/2026	12/16/2026	5D - Hol			Fire Protection Finishes - \$econd f	floor - Area B
CNST-44 50	Toilet Compartments - Toilet Rooms - Second Floor - Area B	5	65	12/3/2026	12/9/2026	5D - Hol			Toilet Compartments - Toilet Room	s - Second Floor - Area B
CNST-4570	Toilet Room Accessories - Toilet Rooms - Second Floor - Area B	5	65	12/10/2026	12/16/2026	5D - Hol			Toilet Room Accessories - Toilet R	ooms - Second Floor - Area B
CNST4680	Install Acoustical Ceiling Tiles - Second Floor - Area B	5	20	12/17/2026	12/23/2026	5D - Hol			Install Accustical Ceiling Tiles - Se	cond Floor - Area B
	Pron Shoot Vinul Integral Rese, Second Floor, Area R	5	20	12/11/2020	12/20/2020	5D Hal	{	·/·/·/·/·	Prob Shoot Visual Integral Page	Compared Floor Area P
CN31-47 00	Piep Sheet Vinyi integral base - Second Floor - Alea B	5	20	12/24/2020	12/31/2020					
CNST-4930	Install Flooring Finishes - Second Floor - Area B	15	20	1/4/2027	1/22/2027	5D - Hol			Install Flooring Finishes - Second	Id Floor - Area B
CNST-53 10	Doors & Hardware - Second Floor - Area B	10	48	1/25/2027	2/5/2027	5D - Hol			Doors & Hardware - \$econd F	floor - Area B
CNST-5320	Remaining Wall Coverings - Second Floor - Area B	10	30	1/25/2027	2/5/2027	5D - Hol			Remaining Wall Coverings - S	econd Floor - Area B
CNST-53 30	Install Signage - Second Floor - Area B	5	35	1/25/2027	1/29/2027	5D - Hol			/ Install Signage - Second Floor	Area B
CNST-5340	Install Visual Display Surfaces - Second Floor - Area B	5	55	1/25/2027	1/29/2027	5D - Hol			Install Visual Display Surfaces	Second Floor - Area B
CNST 53 50		5	35	1/25/2027	1/20/2027	5D Hol			I Install Misc. Accessories. Sec.	hd Ebor Area B
		5	35	1/23/2027	1/29/2027	50-110				
CNS1-5510	Install Window Shades - Second Floor - Area B	5	48	2/8/2027	2/12/2027	5D - Hol			I Install Window Shades - Seco	ind Floor - Area B
Corridor / Share	ed Space Finishes				, , ,=					
CNST-37 40	Millwork / Wall Panels - Corridors - Second Floor - Area B	15	0	10/20/2026	11/9/2026	5D - Hol			Millwork / Wall Panels - Corridors - Se	pond Floor - Area B
CNST-4060	Install ACT Grid - Corridors - Second Floor - Area B	10	0	11/10/2026	11/23/2026	5D - Hol			Install ACT Grid - Corridors - Second	Floor - Area B
CNST-4070	Install Plumbing Fixtures - Corridors - Second Floor - Area B	5	75	11/10/2026	11/16/2026	5D - Hol			Install Plumbing Fixtures - Corridors	Second Floor - Area
CNIST 4200	Install Mechanical Drons / Finishes Corridors Second Floor Area P	10	0	11/24/2026	12/0/2026	50 HAI			Instal Mechanical Drops / Einished	Corridors - Second Elect Ama P
ONOT 42.90		10	0	11/24/2020	12/3/2020					
CNS1-4300	Install Lighting Fixtures - Compose - Second Floor - Area B	10	U	11/24/2026	12/9/2026	5D - Hol				Second Floor - Area B
CNST-4580	MEP Ceiling Inspections - Corridors - Second Floor - Area B	1	34	12/10/2026	12/10/2026	5D - Hol		////	MEP Ceiling Inspections - Corridor	a - Second Floor - Area B
CNST-4630	Finish Painting - Corridors - Second Floor - Area B	10	34	12/11/2026	12/24/2026	5D - Hol			Finish Painting - Corridors - Secor	d Floor - Area B
CNST-4850	Install Acoustical Ceiling Tiles - Corridors - Second Floor - Area B	5	34	12/28/2026	1/4/2027	5D - Hol			I Install Acoustical Ceiling Tiles - Q	prridors - Second Floor - Area B
CNST-4860	Electrical / Fire Alarm Finishes - Corridors - Second Roor - Area B	10	49	12/28/2026	1/11/2027	5D - Hol			Electrical / Fire Alarm Finishes-1	Jorridors - Second Floor - Area B
CNICT 40 70	Communications / Technology Finishes Contriders Record Floor Area P	10	40	12/20/2020	1/11/2027					inishes Corridors Spand Floor Arra D
ONOT 4070	Sommanications / recamology Fillshes - Controls - Second Floor - Area D	10	49	12/20/2020	1/11/2027					anong - Comucits - Second FIDUI - Alea B
CNS F48 80	Fire Protection Finishes - Comdors - Second Floor - Area B	10	49	12/28/2026	1/11/2027	5D - Hol	/ _/_/	////,	I Fire Protection Finishes Corrido	rs - Second Hoor - Area B
CNST-54 20	Install Flooring Finishes - Corridors - Second Floor - Area B	10	20	1/25/2027	2/5/2027	5D - Hol			I Install Flooring Finishes - Com	dors - Second Floor - Are a B
CNST-5670	Doors & Hardware - Corridors - Second Floor - Area B	5	40	2/8/2027	2/12/2027	5D - Hol			Doors & Hardware - Corridors	- Second Floor - Area B
CNST-5680	Wall Coverings & Signage - Corridors - Second Floor - Area B	10	20	2/8/2027	2/19/2027	5D - Hol			Wall Coverings & Signade -	corridors - Second Floor - Area B
CNST-56.90	Install Misc. Accessories - Corridors - Second Floor - Area B	5	25	2/8/2027	2/12/2027	5D - Hol			Install Misc. Accessories - Cor	tidors - Second Floor - Area B
CNICT ET 40	Install Sidelights & Interior Clazing Corridor Second Floor Ama P		40	2/15/2007	2/10/2027					azing Corridors Second Date Ama D
CINO 1-07 40	ו האמוי אינפווערוג א והנפווטר שומבורע - Contidors - Second Floor - Alea B	C	40	2/13/2027	2/19/2021	10H - LIC				Area B

Pa	ge 16 of 21	Clinton Middle School: Proposal Schedule						Data Date 12	2/5/2023
Activ	y ID	Activity Description	Orig.	Total	Start	Finish	Calendar		
	•		Dur.	Float				<u>2024</u> <u>2025</u> <u>2026</u> <u>2027</u> <u>2028</u> <u>2</u>	2029
								<u> </u>	AMJJA
	Preliminary Pune	ch & Inspections							
	CNST-58 10	Fontaine Work to Complete List - Second Floor - Area B	5	20	2/22/2027	2/26/2027	5D - Hol	Fontaine Work to Complete List - Second Floor - Area B	
	CNST-5900	Fontaine Complete Preliminary Punch List - Second Floor - Area B	15	20	3/1/2027	3/19/2027	5D - Hol	🛱 Fontaine Complete Preliminary Punch List - Second Floor - /	-Anea B
	CNST-6270	Final Clean - Second Floor - Area B	3	20	3/22/2027	3/24/2027	5D - Hol	I Final Clean - Second Floor - Area B	
	CNST-6340	Design Team Punchist Inspection - Second Floor - Area B	2	20	3/25/2027	3/26/2027	5D - Hol	L Design Team Punch ist Inspection - Second Floor - Area B	
	CNETE260	Contractor Complete Dunch List, Second Floor, Area B	15	20	2/20/2027	4/16/2027	5D Hol		
	CN31-03-00		15	20	3/29/2027	4/10/2027	5D - HOI		
	CNS1-6800	AE leam Back-Punch - Second Floor - Area B	5	302	4/19/2027	4/23/2027	5D - Hol	I AE learn Back-Punch - Second Hoor - Area B	
	CNST-6890	Fontaine Complete Back-Punch Items - Second Floor - Area B	10	302	4/26/2027	5/7/2027	5D - Hol	Fontaine Complete Back-Punch Items - Second Floor -	Area B
	First Floor - Area	В							
	Interior Framing								
	CNST-2680	Frame Interior Partition Walls - First Floor - Area B	15	3	7/16/2026	8/5/2026	5D - Hol	Frame Interior Partition Walls - First Floor - Area B	
	CNST-2690	Set Door Frames - First Floor - Area B	15	19	7/16/2026	8/5/2026	5D - Hol	Set Door Frames - First Floor - Area B	
	CNST-2750	Wall Blocking - First Floor - Area B	15	32	7/23/2026	8/12/2026	5D - Hol	Wall Booking First Floor - Area B	
	CNST 29 20	Frame Callinge & Soffite First Floor Area B	15	17	9/12/2020	0/12/2020			
	CN31-2030	Fiame Cennigs & Somits - Flist Floor - Area B	15	17	0/13/2020	9/2/2026	5D - HOI		
	MEP Rough-Ins								
	Overhead MEP	Roughs			1				
	CNST-2700	Rough In Fire Protection - First Floor - Area B	15	14	7/16/2026	8/5/2026	5D - Hol	Rough In Fire Protection - First Floor - Area B	
	CNST-27 10	Rough In OH Plumbing - First Floor - Area B	15	14	7/16/2026	8/5/2026	5D - Hol	Rough In OH Plumbing - First Floor - Area B	
	CNST-2780	Rough In Mechanical - First Floor - Are a B	15	4	7/30/2026	8/19/2026	5D - Hol	Rough In Mechanical - First Floor - Area B	
	CNST-2770	Rough In OH Electrical / Low Voltage - First Floor - Area B	15	3	8/6/2026	8/26/2026	5D - Hol	Rough In OH Electrical / Low Voltage - First Floor - Area B	
	In-Wall MEP Ro	undhs							
	CNST-2840	Electrical / Low Voltage In-Wall - First Floor - Area B	15	0	8/11/2026	8/31/2026	5D - Hol	Electrical // ow Voltage In-Wall - First Floor 4 Area B	
	CNST 20 40	Diumbing In Well, First Floor, Aroo B	10	0	9/11/2020	9/21/2026	5D Hol		
	CIN31-2030		15	0	0/11/2020	8/31/2020	5D - HUI		
	CNS1-2980	Electrical In-Wall Inspections - First Floor - Area B	1	19	8/31/2026	8/31/2026	5D - Hol	I Electrical In-Wall Inspections - First Floor - Area B	
	CNST-2990	Plumbing In-Wall Inspections - First Floor - Area B	1	19	8/31/2026	8/31/2026	5D - Hol	I Plumping In-Wall Inspections - First, Floor - Area B	
	CNST-3030	MEP Rough-In / Framing Inspections - First Floor - Area B	1	18	9/1/2026	9/1/2026	5D - Hol	I MEP Rough-In / Framing Inspections - First Floor - Area B	
	Classroom Finis	hes							
	CNST-3110	Insulation & GWB - First Floor - Area B	15	17	9/3/2026	9/24/2026	5D - Hol	□ Insulation & GWB - First Floor - Area B	
	CNST-3230	Mud, Sand, Tape GWB - First Floor - Area B	15	17	9/18/2026	10/8/2026	5D - Hol	Mud, Sand, Tape GWB - First Poor - Arga B	
	CNST-3420	Prime & First Coat Paint - First Floor - Area B	15	17	9/30/2026	10/20/2026	5D - Hol	Prime & First Coat Paint - First Floor - Area B	
	CNST-3760	Install ACT Grid - First Floor - Area B	15	17	10/21/2026	11/10/2026	5D - Hol		
	CNCT 27.70	Milluot/ / Dunning Tim / Mall Danala, First Floor, Area D	10	20	10/21/2020	11/10/2020	5D Hol		
	CN31-5770		15	20	10/21/2020	11/10/2020	5D - HU		
	CNST-3780	Tile - Tollet Rooms - First Floor - Area B	15	43	10/21/2026	11/10/2026	5D - Hol	Ille - Totet Rooms - First Floor - Area B	
	CNST-4080	Install Casework & Countertops - First Floor - Area B	15	17	11/11/2026	12/3/2026	5D - Hol	Install Casework & Countertops - First Floor - Area B	
	CNST-4100	Install Lockers / Cubbies - First Floor - Area B	15	17	11/11/2026	12/3/2026	5D - Hol	Install Lockers / Cubbies - First Floor - Area B	
	CNST-4460	Install Plumbing Fixtures - First Floor - Area B	15	39	12/4/2026	12/24/2026	5D - Hol	Install Plumbing Fixtures First Floor - Area B	
	CNST-4590	Install Mechanical Drops / Finishes - First Floor - Area B	10	0	12/10/2026	12/23/2026	5D - Hol	Install Mechanical Drops / Finishes - First Floor - Area B	
	CNST-4600	Install Lighting Fixtures - First Floor - Area B	10	0	12/10/2026	12/23/2026	5D - Hol	Install Lighting Fixtures - First Floor - Area B	
	CNST4770	MEP Ceiling Inspections - First Floor - Area B	1	2	12/24/2026	12/24/2026	5D - Hol	MEP Ceiling Inspections First Fidor - Area B	
	CNST 49.00	Finish Deinting First Elser Area P	10	2	12/24/2020	1/11/2027	5D Hol		
	CN314090		10	2	12/20/2020	1/11/2027	5D - HOI		
	CNS1-5050	Electrical / Fire Alarm Hnishes - First Floor - Area B	15	1	1/12/2027	2/1/2027	5D - Hol	L'Hectrical / Fire Alarm Hinishes 1 First Floor- Area B	
	CNST-5060	Toilet Compartments - Toilet Rooms - First Floor - Area B	5	49	1/12/2027	1/18/2027	5D - Hol	I Tofilet Compartments - Toilet Rooms - First Floor - Area B	
	CNST-5070	Communications / Technology Finishes - First Hoor - Area B	15	44	1/12/2027	2/1/2027	5D - Hol	Gommunications / Technology Finishes - First Roor Area B	
	CNST-5080	Fire Protection Finishes - First Floor - Area B	15	2	1/12/2027	2/1/2027	5D - Hol	Fire Protection Finishes - First Floor - Area B	
	CNST-5280	Toilet Room Accessories - Toilet Rooms - First Floor - Area B	5	49	1/19/2027	1/25/2027	5D - Hol	I Toilet Room Accessories - Toilet Rooms - First Floor - Area B	
	CNST-54.80	Install Acoustical Ceiling Tiles - First Floor - Area B	5	2	2/2/2027	2/8/2027	5D - Hol	V Install Acoustical Ceiling Tiles - First Floor - Area B	
	CNST-5630	Pran Sheet Vinyi Integral Rase - First Floor - Area B	5	2	2/0/2027	2/15/2027	5D - Hol	I Pren Sheet Vinue Intervel Base - First Boor - Area B	
	CN01-0030		15	2	2/3/2021	2/13/2021	50 - 110		
	CNST-07 10	Install Flooring Finishes - First Floor - Area B	10	2	2/16/2027	3/8/2027	SD - HOI		
	CNS1-5990	Doors & Hardware - First Floor - Area B	10	22	3/9/2027	3/22/2027	5D - Hol	Doors & Hardware - First Hoor - Area B	
	CNST-60 00	Remaining Wall Coverings - First Floor - Area B	10	9	3/9/2027	3/22/2027	5D - Hol	Remaining Wall Coverings - First Floor - Area B	
	CNST-60 10	Install Signage - First Floor - Area B	5	14	3/9/2027	3/15/2027	5D - Hol	Install Signage - First Floor Area B	
	CNST-6020	Install Visual Display Surfaces - First Floor - Area B	5	29	3/9/2027	3/15/2027	5D - Hol	Install Visual Display Surfages - First Floor - Area B	
	CNST-6030	Install Misc. Accessories - First Floor - Area B	5	14	3/9/2027	3/15/2027	5D - Hol	Install Misc. Accessories - First Roor - Area B	
	CNST-6210	Install Window Shades - First Floor - Area B	5	22	3/23/2027	3/29/2027	5D - Hol	I Install Window Sharles - First Floor - Area B	
	Corridor / Sharo		Ŭ		0/20/2021	0/20/2021			
		Millwork / Wall Panels - Corridors - First Floor Area B	15	26	11/11/2026	12/2/2026	50 42		
	CNCT 44 70		10	20	12/4/2020	12/012020			
	CINO 1-44 /U		10	20	12/4/2020	12/11/2020			D
	CNST-4780	Install Mechanical Drops / Finishes - Corridors - First Floor - Area B	10	24	12/24/2026	1/8/2027	5D - Hol	Install Mechanical Drops / Finishes - Corridors - First Floor - Area E	Ъ
	CNST-4790	Install Lighting Fixtures - Corridors - First Floor - Area B	10	24	12/24/2026	1/8/2027	5D - Hol	Install Lighting Fixtures - Corridors - First Floor - Area B	
	CNST-4800	Install Plumbing Fixtures - Corridors - First Floor - Area B	5	54	12/28/2026	1/4/2027	5D - Hol	Δ / I Install Plumbing Fixtures Corridors - First Floor - Area β	
	CNST-50 00	MEP Ceiling Inspections - Corridors - First Floor - Area B	1	24	1/11/2027	1/11/2027	5D - Hol	// MEP Ceiling Inspections - Corridors - First Floor - Area B	
	CNST-5090	Finish Painting - Corridors - First Floor - Area B	10	24	1/12/2027	1/25/2027	5D - Hol	Finish Painting - Corridors - First Floor - Area B	

Page 17 of 21	Clinton Middle School: Proposal Schedule						D	vata Date 12/5/2023
Activity ID	Activity Description	Orig.	Total	Start	Finish	Calendar		
		Dur.	Float					
CNST-5380	Install Acoustical Ceiling Tiles - Corridors - First Floor - Area B	5	24	1/26/2027	2/1/2027	5D - Hol	I I / Install Acoustical Ceiling Tiles - Corridors - First Fi	oor-Area B
CNST-5390	Electrical / Fire Alarm Finishes - Corridors - First Floor - Area B	10	39	1/26/2027	2/8/2027	5D - Hol	I Electrical / Fire Alarm Finishes - Corridors - First F	-loor - Area B
CNST-54 00	Communications / Technology Finishes - Corridors - First Floor - Area B	10	39	1/26/2027	2/8/2027	5D - Hol	I Communications / Technology Finishes - Corrido	ors - First Floor - Area B
CNST-54 10	Fire Protection Finishes - Corridors - First Floor - Area B	10	39	1/26/2027	2/8/2027	5D - Hol	I Fire Protection Finishes - Corridors - First Floor -	Area B
CNST-6080	Install Flooring Finishes - Corridors - First Floor - Area B	10	2	3/4/2027	3/17/2027	5D - Hol	I Install Flooring Finishes - Corridors - First Floo	or - Area B
CNST-63 10	Doors & Hardware - Corridors - First Floor - Area B	5	17	3/18/2027	3/24/2027	5D - Hol	I Doors & Hardware - Corridors - First Floor - A	.rea B
CNST-6320	Wall Coverings & Signage - Corridors - First Floor - Area B	10	2	3/18/2027	3/31/2027	5D - Hol	I Wall Coverings & Signage - Corridors - First	Floor - Area B
CNST-63 30	Install Misc. Accessories - Corridors - First Floor - Area B	5	7	3/18/2027	3/24/2027	5D - Hol	I Install Misc. Accessories - Corridors - First Ro	or-Area B
CNST-64 10	Install Sidelights & Interior Glazing - Corridors - First Floor - Area B	5	17	3/25/2027	3/31/2027	5D - Hol	I Install Sidelights & Interior Glazing - Corridor	s - First Floor - Area B
Preliminary Pu	nch & Inspections		, ,		1			
CNST-65 50	Fontaine Work to Complete List - First Floor - Area B	5	2	4/1/2027	4/7/2027	5D - Hol	I Fontaine Work to Complete List - First Floo	r - Area B
CNST-67 30	Fontaine Complete Preliminary Punch List - First Floor - Area B	10	2	4/8/2027	4/21/2027	5D - Hol	I Fontaine Compete Preliminary Punch List	First Floor - Area B
CNST-7120	Final Clean - First Floor - Area B	3	2	4/22/2027	4/26/2027	5D - Hol	I I Final Clean - First Floor Area B	
CNST-7170	Design Team Punchist Inspection - First Floor - Area B	2	2	4/27/2027	4/28/2027	5D - Hol	I Design Team Punchist Inspection - First F	loor - Area B
CNST-7200	Contractor Complete Punch List - First Floor - Area B	10	2	4/29/2027	5/12/2027	5D - Hol	I Contractor Complete Punch List - First F	ioor - Area B
CNST-7600	AE Team Back-Punch - First Floor - Area B	5	284	5/13/2027	5/19/2027	5D - Hol	I I AE Team Back-Punch - First Floor - Area	ιB
CNST-7680	Fontaine Complete Back-Punch Items - First Floor - Area B	10	284	5/20/2027	6/3/2027	5D - Hol	I Fontaine Complete Back-Punch Items	- First Floor - Area B
Area C								
Stairs								
CNST-8350	Install Stair Frames & Structural Steel Supports - Stairs - Area C	5	205	6/17/2026	6/23/2026	5D - Hol	I Install Stair Frames & Structural Steel Supports - Stairs - Area C	
CNST-8340	Place Concrete Landings & Steps - Stairs - Area C	10	205	6/24/2026	7/8/2026	5D - Hol	I Place Concrete Landings & Steps - Stairs - Area C	
CNST-83 30	Install Handrails - Stairs - Area C	5	73	1/18/2027	1/22/2027	5D - Hol	I Install Handrails - Stairs - Area C	
CNST-8360	Install Flooring Finishes - Stairs - Area C	5	22	4/6/2027	4/12/2027	5D - Hol	I Install Flooring Finishes - Stairs - Area C	
Second Floor - A	Area C / Partial Area A							
	g	45	0	0/0/0000	0/00/0000			
CNS1-3570	Frame Interior Partition Walls - Second Floor - Area C	15	3	8/6/2026	8/26/2026	5D - Hol	I Frame Interior Partition Walls - Second Floor - Area C	
CNS1-3580	Set Door Frames - Second Floor - Area C	15	19	8/6/2026	8/26/2026	5D - Hol		
CNS1-3800	Wall Blocking - Second Floor - Area C	15	14	8/13/2026	9/2/2026	5D - Hol		
CNS1-3920	Frame Cellings & Sorrits - Second Floor - Area C	15	4	8/27/2026	9/17/2026	5D - Hol	Frame Cellings & Somts - Second Floor - Area C	
	P Roughs							
CNST-3590	Rough In Fire Protection - Second Floor - Area C	15	14	8/6/2026	8/26/2026	5D - Hol	Bourde In Fire Protection - Second Floor - Area C	
CNST-3600	Rough In OH Plumbing - Second Floor - Area C	15	14	8/6/2026	8/26/2026	5D - Hol	Bough In OH Plumbing - Second Ricor - Area C	
CNST-3840	Rough In Mechanical - Second Floor - Area C	15	4	8/20/2026	9/10/2026	5D - Hol	Rough In Mechanical - Second Floor - Area C	
CNST-3830	Rough In OH Electrical / Low Voltage - Second Roor - Area C	15	3	8/27/2026	9/17/2026	5D - Hol	I Rough In OH Electrical / Low Voltage - Second Roor - Area	c
In-Wall MEP R	Roughs		1		<u> </u>			
CNST-3930	Electrical / Low Voltage In-Wall - Second Floor - Area C	15	0	9/1/2026	9/22/2026	5D - Hol	I Electrical / Low Voltage In-Wall - Second Floor - Area C	
CNST-3940	Plumbing In-Wall - Second Floor - Area C	15	0	9/1/2026	9/22/2026	5D - Hol	I Plumbing In-Wall - Second Floor - Area C	
CNST-43 10	Electrical In-Wall Inspections - Second Floor - Area C	1	1	9/22/2026	9/22/2026	5D - Hol	I Electrical In Wall Inspections - Second Floor - Area C	
CNST-4320	Plumbing In-Wall Inspections - Second Floor - Area C	1	1	9/22/2026	9/22/2026	5D - Hol	I I Plumbing In-Wall Inspections - Second Floor - Area C	
CNST-4350	MEP Rough-In / Framing Inspections - Second Floor - Area C	1	0	9/23/2026	9/23/2026	5D - Hol	I I MEP Rough-In / Framing Inspections - Second Floor - Area	с
Classroom Fini	ishes							
CNST-44 10	Insulation & GWB - Second Floor - Area C	15	0	9/24/2026	10/14/2026	5D - Hol	I Insulation & GWB - Second Fldor - Area C	
CNST-4660	Mud, Sand, Tape GWB - Second Floor - Area C	15	0	10/8/2026	10/28/2026	5D - Hol	I Mud, Sahd, Tape GWB - Second Floor - Area C	
CNST-48 10	Prime & First Coat Paint - Second Floor - Area C	15	0	10/20/2026	11/9/2026	5D - Hol	I Prime & First Coat Paint - Second Floor - Area C	
CNST-5180	Install ACT Grid - Second Floor - Area C	15	12	11/10/2026	12/2/2026	5D - Hol	I Install ACT Grid - Second Foor - Area C	
CNST-5190	Millwork / Running Trim / Wall Panels - Second Floor - Area C	15	0	11/10/2026	12/2/2026	5D - Hol	I Millwork / Running Trim / Wall Panels - Second Floor -	Area C
CNST-5200	Tile - Toilet Rooms - Second Floor - Area C	15	15	11/10/2026	12/2/2026	5D - Hol	I Tile - Toilet Rooms - Second Floor - Area C	
CNST-5520	Install Casework & Countertops - Second Floor - Area C	15	12	12/3/2026	12/23/2026	5D - Hol	I Install Casework & Countertops - Second Floor - Are	a C
CNST-5540	Install Lockers / Cubbies - Second Floor - Area C	15	12	12/3/2026	12/23/2026	5D - Hol	I Install Lockers / Cubbies Second Floor - Area C	
CNST-59 10	Install Mechanical Drops / Finishes - Second Floor - Area C	10	0	12/24/2026	1/8/2027	5D - Hol	I Install Mechanical Drops // Finishes - Second Floor	- Area C
CNST-5920	Install Lighting Fixtures - Second Floor - Area C	10	0	12/24/2026	1/8/2027	5D - Hol	I Install Lighting Fixtures - Second Floor - Area C	
CNST-5820	Install Plumbing Fixtures - Second Floor - Area C	15	39	12/28/2026	1/18/2027	5D - Hol	I Install Plumbing Fixtures - Second Floor - Area C	
CNST-6110	MEP Ceiling Inspections - Second Floor - Area C	1	1	1/11/2027	1/11/2027	5D - Hol	I VIEP Ceiling Inspections - Second Floor - Area C	
CNST-62.20	Finish Painting - Second Floor - Area C	10	1	1/12/2027	1/25/2027	5D - Hol	Finish Painting - Second Floor Area C	
CNST-64 20	Install Acoustical Ceiling Tiles - Second Floor - Area C	5	11	1/26/2027	2/1/2027	5D - Hol	I Install Acoustical Ceiling Tiles - Second Floor - Ar	за С
CNST-64 30	Electrical / Fire Alarm Finishes - Second Roor - Area C	15	1	1/26/2027	2/15/2027	5D - Hol	Electrical / Fire Alarm Finishes - Second Roor - /	Area C
CNST-64 40	Ioilet Compartments - Toilet Rooms - Second Floor - Area C	5	39	1/26/2027	2/1/2027	5D - Hol	I Tpilet Compartments - Toilet Rooms - Second Flo	or Area C
CNST-64 50	Communications / lechnology Finishes - Second Floor - Area C	15	34	1/26/2027	2/15/2027	5D - Hol	Communications / Technology Finishes - Secon	d Hoor - Area C
CNST-64.60	Fire Protection Finishes - Second Floor - Area C	15	1	1/26/2027	2/15/2027	5D - Hol	Fire Protection Finishes - Second Floor - Area C	
CNST-6560	Ioilet Room Accessories - Ioilet Rooms - Second Floor - Area C	5	39	2/2/2027	2/8/2027	5D - Hol	I Toilet Room Accessories - Toilet Rooms - Secon	J Hoor - Area C
CINS 1-6840	Prep Sheet vinyi integral base - Second Floor - Area C	5	1	2/16/2027	2/22/2027	0H - Uc	I II Prep Sheet Vinyi Integral Base - Second Floor	Aleac

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Activity I	D	Activity Description	Orig. Dur.	Total Float	Start	Finish	Calendar		2024 2025	2026		2027	2028		2029
									<u>IMAMJJIASIONDJIFMAMJJIASIO</u>	NDJFMAMJJ	ISONDI	FAJJASON	DIFMAMJJASD	NDJF	MAMJJA
	CNST-6950	Install Flooring Finishes - Second Floor - Area C	10	1	2/23/2027	3/8/2027	5D - Hol		A			Install Flooring Finis	shes - Second Floor - Area C		4
	CNST-/210	Doors & Hardware - Second Floor - Area C	10	18	3/9/2027	3/22/2027	5D - Hol	_///				Doors & Hardwar	e - Second Floor - Area C		
	CNS1-/220	Remaining Wall Coverings - Second Floor - Area C	10	9	3/9/2027	3/22/2027	5D - Hol	_///					Joverings - Second Floor - An	eaC	
	CNST-7230	Install Signage - Second Hoor - Area C	5	14	3/9/2027	3/15/2027	5D - Hol	—[///				I Install Signage - S	econd Floor - Area C		
	CNST-7240	Install Visual Display Surfaces - Second Floor - Area C	5	29	3/9/2027	3/15/2027	5D - Hol	—[///				I Install Visual Dispi	ay Surfaces - Second Floor -	Area C	
	CNS1-7250	Install Misc. Accessones - Second Floor - Area C	5	14	3/9/2027	3/15/2027	5D - Hol		A		·····	I Install Misc. Acces	sories - Second Floor - Area		4
	CNS1-7500	Install Window Shades - Second Floor - Alea C	5	22	3/23/2027	3/29/2027	5D - Hoi						nades - Second Floor - Alea		
	CNST-5530	Millwork / Wall Panels - Corridors - Second Floor - Area C	15	0	12/3/2026	12/23/2026	5D - Hol					1 1 Jillwork / Wall Panels - C	orridors - Second Floor - Area	aC	
	CNST-5830	Install ACT Grid - Corridors - Second Floor - Area C	10	0	12/24/2026	1/8/2027	5D - Hol	_///				Install ACT Grid - Corrid	ors - Second Floor - Area C		
	CNST-6120	Install Mechanical Drops / Finishes - Corridors - Second Floor - Are a C	10	0	1/11/2027	1/22/2027	5D - Hol	_///				Install Mechanical Dro	ps / Finishes - Corridors - Sec	cond Flor	or-Area C
	CNST-6130	Install Lighting Fixtures - Corridors - Second Floor - Area C	10	0	1/11/2027	1/22/2027	5D - Hol					Install Lighting Fixtures	- Corridors - Second Floor -	Area C	1
	CNST-6140	Install Plumbing Fixtures - Corridors - Second Floor - Area C	5	39	1/19/2027	1/25/2027	5D - Hol					Install Plumbing Fixtur	es - Corridors - Second Floor	-Area C	
	CNST-6370	MEP Ceiling Inspections - Corridors - Second Floor - Area C	1	14	1/25/2027	1/25/2027	5D - Hol	_///				MEP Ceiling Inspectio	ns - Corridors - Second Floor	:-Area C	
	CNST-6470	Finish Painting - Corridors - Second Floor - Area C	10	14	1/26/2027	2/8/2027	5D - Hol				1	Finish Painting - Corr	idors - Second Floor - Area C	. ///,	
	CNST-6740	Install Acoustical Ceiling Tiles - Corridors - Second Floor - Area C	5	14	2/9/2027	2/15/2027	5D - Hol	_///				Install Acoustical Cei	iling Tiles - Corridors - Second	d Floor -1	Area C
	CNST-6750	Electrical / Fire Alarm Finishes - Corridors - Second Floor - Area C	10	20	2/9/2027	2/22/2027	5D - Hol					Electrical / Fire Alam	n Finishes - Corridors - Secor	nd Floor -	Area C
	CNST-6760	Communications / Technology Finishes - Corridors - Second Floor - Area C	10	29	2/9/2027	2/22/2027	5D - Hol	_///				Communications / T	echnology Finishes - Corrido	rs - Seco	nd Floor - Area
	CNST-6770	Fire Protection Finishes - Corridors - Second Floor - Area C	10	29	2/9/2027	2/22/2027	5D - Hol	_///				Fire Protection Finis	hes - Conidors - Second Floo	r Area (2
	CNST-7390	Install Flooring Finishes - Corridors - Second Floor - Area C	10	1	3/5/2027	3/18/2027	5D - Hol	_///				Install Flooring Fin	ishes - Corridors - Second Flo	oor - Are;	ı¢
	CNST-76 10	Doors & Hardware - Corridors - Second Floor - Area C	5	16	3/19/2027	3/25/2027	5D - Hol	_///				Doors & Hardwar	e - Corridors - Second Floor -	· Area C	
	CNST-7620	Wall Coverings & Signage - Corridors - Second Floor - Area C	10	1	3/19/2027	4/1/2027	5D - Hol					Wall Coverings 8	Signage - Corridors - Secon	Id Floor -	Area C
	CNST-7630	Install Misc. Accessories - Corridors - Second Floor - Area C	5	6	3/19/2027	3/25/2027	5D - Hol					I Install Misc. Acce	sories - Corridors - Second F	-bor - Arr	∋a C
	CNST-7690	Install Sidelights & Interior Glazing - Corridors - Second Floor - Area C	5	16	3/26/2027	4/1/2027	5D - Hol					I Install Sidelights	& Interior Glazing - Corridors	- Second	Floor - Area C
	Preliminary Pur	nch & Inspections										\sim			
	CNST-7780	Fontaine Work to Complete List - Second Floor - Area C	5	1	4/2/2027	4/8/2027	5D - Hol					Fontaine Work t	Complete List - Second Flo	or - Area	¢
	CNST-7870	Fontaine Complete Preliminary Punch List - Second Floor - Area C	10	1	4/9/2027	4/22/2027	5D - Hol	///				Fontaine Comp	ete Preliminary Punch List -	Second	Foor-Area C
	CNST-8020	Final Clean - Second Floor - Area C	3	1	4/23/2027	4/27/2027	5D - Hol	_///				I Final Clean - S	econd Floor - Area C		
	CNST-8030	Design Team Punchist Inspection - Second Floor - Area C	2	1	4/28/2027	4/29/2027	5D - Hol	_///				Design Team I	Funchiist Inspection - Second	J Floor - A	vrea C
	CNST-8080	Contractor Complete Punch List - Second Floor - Area C	10	1	4/30/2027	5/13/2027	5D - Hol	///				Contractor Co	mplete Punch List - Second	Floor - A	rea C
	CNST-8200	AE Team Back-Punch - Second Floor - Area C	5	283	5/14/2027	5/20/2027	5D - Hol	///				I AE Team Ba	dk-Punch - Second Floor - Are	∋a∕C∕	
	CNST-8230	Fontaine Complete Back-Punch Items - Second Floor - Area C	10	283	5/21/2027	6/4/2027	5D - Hol	_///				Fontaine Co	mplete Back-Punch Items -	Second I	Floor - Area C
	First Floor - Area	a C													
	Interior Framing		15	0	8/27/2026	0/17/2026	5D Hol	_///				torior Partition Walls			
	CNST3060	Set Door Frames First Floor Area C	15	24	8/27/2026	9/17/2020	5D - Hol	—[///				Frames First Floor Ar	ist Floor - Alea C		
	CNST/130	Wall Blocking - First Floor - Area C	15	10	9/3/2026	9/24/2026	5D - Hol		/-/			cking - First Floor - Area		. a fa fa fa y	
	CNST4360	Frame Ceilings & Soffits - First Floor - Area C	15	9	9/18/2020	10/8/2026	5D - Hol	—[///				Cellings & Soffits - First	Floor - Area C		
	MEP Rough-Ins		10	3	0/10/2020	10/0/2020									
	Overhead MEF	P Roughs													
	CNST-3970	Rough In Fire Protection - First Floor - Area C	15	19	8/27/2026	9/17/2026	5D - Hol				🔲 Rough Ir	Fire Protection - First F	loor - Area C		
	CNST-3980	Rough In OH Plumbing - First Floor - Area C	15	19	8/27/2026	9/17/2026	5D - Hol				Rough Ir	OH Plumbing - First Flo	oor-AreaC		
	CNST-4220	Rough In Mechanical - First Floor - Area C	15	9	9/11/2026	10/1/2026	5D - Hol				Rough	n Mechanical - First Flo	or - Area C		
	CNST-4210	Rough In OH Electrical / Low Voltage - First Floor - Area C	15	8	9/18/2026	10/8/2026	5D - Hol				🔲 Rough	In OH Electrical / Low V	oltage - First Floor - Area C		
	In-Wall MEP R	oughs													
	CNST-4370	Electrical / Low Voltage In-Wall - First Floor - Area C	15	5	9/23/2026	10/13/2026	5D - Hol				Eectric	al Low Voltage In-Wal	l - Fírst Fløor - Area C		
	CNST-4380	Plumbing In-Wall - First Floor - Area C	15	5	9/23/2026	10/13/2026	5D - Hol	_///			Pumbi	ng In-Wall - First Floor -	Area C		
	CNST-4690	Electrical In-Wall Inspections - First Floor - Area C	1	6	10/13/2026	10/13/2026	5D - Hol	///			l Electric	al In-Wall Inspections -	First Floor - Area C		
	CNST-4700	Plumbing In-Wall Inspections - First Floor - Area C	1	6	10/13/2026	10/13/2026	5D - Hol	_///			l Pumb	ng In-Wall Inspections -	First Floor - Area C		
	CNST-4730	MEP Rough-In / Framing Inspections - First Floor - Area C	1	5	10/14/2026	10/14/2026	5D - Hol				I MEP F	ough-In / Framing Insp	ections - First Floor - Area C		
	Classroom Fini	shes	45		40/45/0000	44/4/0000	ED Hel		· · · · · · · · · · · · · · · · · · ·					<i></i>	4
	CNST-4740	Insulation & GWB - First Floor - Area C	15	5	10/15/2026	11/4/2026	5D - Hol	_///				ation & GVVB - First Floc	or-Area C		
	CNST-4970	Mud, Sand, Tape GWB - Hist Floor - Area C	15	5	10/29/2026	11/18/2026	5D - Hol	_///				I, Sand, Tape GWB - HI	st Floor - Area C		
	CNST-5210	Prime & First Coat Paint - First Floor - Area C	15	5	11/10/2026	12/2/2026	5D - Hol	—[///			Pn	ne & First Coat Paint -	First Floor - Area C		
	CNS1-5550	Install ACT Grid - First Floor - Area C	15	/	12/3/2026	12/23/2026	5D - Hol	_///				Istall AC I Grid - First Flo	por - Area C		2
	CNST-5560	IVIIIIWOIK / KUNNING INM / VVAII PANEIS - HIRST Floor - Area C	15	5	12/3/2026	12/23/2026	5D - Hol	_ _/././	A		······	WWORK / Running Irim /	wall Panels - First Floor - Are	ac	
			15	20	12/3/2026	12/23/2026		_///							1
	CINS 1-58 40	Install Casework & Counterlops - First Floor - Area C	15	1	12/24/2026	1/15/2027		///				Install Casework & Col	Tietops - First Floor - Alea C	·///	1
		Install Lockers / Cubbles - First Floor - Area C	15	19	12/24/2026	1/15/2027	5D - HOI	 ///							
		Install Fullibility Fixtures - Filst Floor - Area C	15	(1/10/2027	2/3/2027		—[///					and Liniahan First Floor A		2
		Install viechanical Drops / Finishes - First Floor - Area C	10	0	1/25/2027	2/5/2027	5D - HOI		/	<i>[</i>]			ups / Finishes - First Floor - Ar	eac	4
	UN21-0390	Install Lighting Fixtures - First Floor - Area C	10	0	1/25/2027	2/5/2027	5D - Hol			Y///		r Install Lighting Fixture	p - First Floor - Area C	- Y / / /	1

Data	Date	12/5	/2023
Data	Date	14/0	2025

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Activity II	C	Activity Description	Orig.	Total	Start	Finish	Calendar		2024	- 1	2005	2000	0007	2020
			Dur.	Float										
	CNST-6630	MEP Ceiling Inspections - First Floor - Area C	1	3	2/8/2027	2/8/2027	5D - Hol						MEP Ceiling Inspections - First F	Floor - Area C
	CNST-6780	Finish Painting - First Floor - Area C	10	3	2/9/2027	2/22/2027	5D - Hol	- ///					Finish Painting - First Floor - Are	aC
	CNST-6960	Install Acoustical Ceiling Tiles - First Floor - Area C	5	3	2/23/2027	3/1/2027	5D - Hol	-///					Install Acoustical Ceiling Tiles -	First Floor - Area C
	CNST-6970	Electrical / Fire Alarm Finishes - First Floor - Area C	15	5	2/23/2027	3/15/2027	5D - Hol	-1///					Electrical / Fire Alarm Finishes	s - First Floor - Area C
	CNST-6980	Toilet Compartments - Toilet Rooms - First Floor - Area C	5	29	2/23/2027	3/1/2027	5D - Hol		A		//		Toilet Compartments - Toilet R	ooms - First Floor - Area C
	CNST-6990	Communications / Technology Finishes - First Floor - Area C	15	24	2/23/2027	3/15/2027	5D - Hol	-///					Communications / Technolog	v Finishes - First Roor - Area C
	CNST-70.00	Fire Protection Finishes - First Floor - Area C	10	29	2/23/2027	3/8/2027	5D - Hol						Fire Protection Finishes - First	Floor - Area C
	CNST-7130	Toilet Room Accessories - Toilet Rooms - First Floor - Area C	5	29	3/2/2027	3/8/2027	5D - Hol	-					Toilet Room Accessories - Toile	et Rooms - First Floor - Areal C
	CNST-7140	Pren Sheet Vinyl Integral Base - First Floor - Area C	5	3	3/2/2027	3/8/2027	5D - Hol	-///					Pren Sheet Vinvl Integral Base	e - First Floor - Area C
	CNST-7270	Install Flooring Finishes - First Floor - Area C	10	3	3/9/2027	3/22/2027	5D - Hol				h-h-			t Floor - Area C
	CNST-7510	Doors & Hardware - First Floor - Area C	10	22	3/23/2027	4/5/2027	5D - Hol	- [///					Doors & Hardware - First El	loor - Area C
	CNST-7520	Remaining Wall Coverings - First Floor - Area C	10	9	3/23/2027	4/5/2027	5D - Hol	-///					Remaining Wall Coverings	- First Floor - Area C
	CNST-7530		5	1/	3/23/2027	3/20/2027	5D - Hol	-1///						Area C
	CNST 75/0	Install Visual Display Surfaces First Floor Area C	5	20	3/23/2027	3/20/2027	5D Hol	-						as First Floor Area C
	CNST 75 50	Install Mise Accessories First Floor Area C	5	1/	3/23/2027	3/20/2027	5D Hol				//	<i>k-f-f-</i>		
	CNST-7300	Install Window Shades First Floor Area C	5	22	4/6/2027	4/12/2027	5D - Hol	-1///					Install Window Shadoo Ei	ret Floor Area C
	Corridor / Shara	d Space Finishes	5	22	4/0/2021	4/12/2021	3D - 1101							Ist Hool - Alea C
	CNST 59 50	Milwork / Wall Banala, Carridom, First Floor, Area C	15	5	12/24/2026	1/15/2027	ED Hal	-///						First Floor, Area C
	CNST-0050	Install ACT Crid Corridor First Floor Area C	10	5	1/19/2020	1/15/2027	5D - Hol	- ///					Install ACT Crid. Corridors - Einst	Flist Floor Area C
		Install Machanical Drana / Finishas Carridara First Floor Area C	10	0	2/9/2027	2/10/2027	5D - Hol	_	4		/-/	-/-/	Install ACT Glid - Comunis - Filst	Floor - Alea C
	CNST-0040	Install Mechanical Diops / Finishes - Condois - Filst Floor - Area C	10	0	2/0/2027	2/19/2027	5D - Hol	-///						am First Floor Am C
	CNS1-00-50	Install Digning Fixtures - Conidors - First Floor - Alea C	10	0	2/0/2027	2/19/2027	5D - Hol	-1///						
	CNS1-6530	Install Plumbing Fixtures - Comdors - First Floor - Area C	5	35	2/8/2027	2/12/2027	5D - Hol	-					I Install Plumbing Fixtures - Como	idors - First Floor - Area C
	CNS1-6900	MEP Celling Inspections - Comdors - Hist Floor - Area C	1	0	2/22/2027	2/22/2027	5D - Hol	- ///					Finish Drinting Orbitish	Idors - First Floor - Area C
	CNS1-7010	Finish Painting - Comdors - First Floor - Area C	10	0	2/23/2027	3/8/2027	5D - Hol				·/·	////		st Floor - Area C
	CNS1-7280	Install Acoustical Celling Tiles - Compose - First Floor - Area C	5	8	3/9/2027	3/15/2027	5D - Hol	-						- Comdors - First Fipor - Area C
	CNS1-7290	Electrical / Fire Alarm Hnishes - Corridors - First Floor - Area C	10	0	3/9/2027	3/22/2027	5D - Hol	_///						s-Condors-First Hoor-Area C
	CNS1-7300	Wall Coverings & Signage - Corridors - First Floor - Area C	10	19	3/9/2027	3/22/2027	5D - Hol	_///					Wall Coverings & Signage-	Comdors - First Floor - Area C
	CNST-7310	Communications / Technology Finishes - Corridors - First Floor - Area C	10	18	3/9/2027	3/22/2027	5D - Hol	_///					Communications Technolog	gy Finishes - Corridors - First Floor - Area C
	CNS1-7320	Fire Protection Finishes - Comdors - First Floor - Area C	10	19	3/9/2027	3/22/2027	5D - Hol	/././.	4	- /-/-/	/	·///		rridors - First Floor - Area C
	CNST-7640	Install Flooring Finishes - Corridors - First Floor - Area C	10	3	3/23/2027	4/5/2027	5D - Hol	_///					Install Flooring Finishes - Co	orridors - First Floor - Area C
	CNST-7790	Doors & Hardware - Corridors - First Floor - Area C	5	3	4/6/2027	4/12/2027	5D - Hol	_					Doors & Hardware - Corride	ors - First Floor - Area C
	CNST-7800	Install Misc. Accessories - Corridors - First Floor - Area C	5	4	4/6/2027	4/12/2027	5D - Hol	_///					I Install Misc. Accessories - C	Corridors - First Floor - Area C
	CNST-7890	Install Sidelights & Interior Glazing - Corridors - First Floor - Area C	5	14	4/13/2027	4/19/2027	5D - Hol						Install Sidelights & Interior	Glazing - Corridors - First Floor - Area C
	Preliminary Pun	ich & Inspections	1 -								·	////		
	CNST-7880	Fontaine Work to Complete List - First Floor - Area C	5	4	4/13/2027	4/19/2027	5D - Hol	_///					Fontaine Work to Complet	te List - First Floor - Area C
	CNST-7940	Fontaine Complete Preliminary Punch List - First Floor - Area C	10	4	4/20/2027	5/3/2027	5D - Hol	_///					Fontaine Complete Prelir	ninary Punch List - First Flodr - Area C
	CNST-8090	Final Clean - First Floor - Area C	3	4	5/4/2027	5/6/2027	5D - Hol	_///					I Final Clean - First Floor-	Area C
	CNST-8120	Design Team Punchist Inspection - First Floor - Area C	2	4	5/7/2027	5/10/2027	5D - Hol	_///					Design Team Punchlist li	nspection - First Floor - Area C
	CNST-8180	Contractor Complete Punch List - First Floor - Area C	15	271	5/11/2027	6/1/2027	5D - Hol				//	////	Contractor Complete	Punch List - First Floor - Area C
	CNST-8240	AE Team Back-Punch - First Floor - Area C	5	271	6/2/2027	6/8/2027	5D - Hol	_///					AE Team Back-Punch	- First Floor - Area C
	CNST-8320	Fontaine Complete Back-Punch Items - First Floor - Area C	10	271	6/9/2027	6/22/2027	5D - Hol						Fontaine Complete B	Back-Punch Items - First Flodr - Area C
Sit	e Finishes - Pha	ase 1												
SI	TE-1000	Rough Grade / Prep for Site Finishes - Phase 1	15	3	9/18/2026	10/8/2026	5D - Hol	_///				🗖 🗖 R	ough Grade / Prep for Site Finishes - Ph	ase 1
SI	TE-1010	Construct Gravel Borrow Subbase - Phase 1	15	3	10/9/2026	10/29/2026	5D - Hol				[]]		Construct Gravel Borrow Subbase - Pha	se 1
SI	TE-1020	Construct Retaining Walls - Phase 1	20	97	10/9/2026	11/5/2026	5D - Hol						Construct Retaining Walls - Phase 1	
SI	TE-1030	Set Light Pole Foundations - Phase 1	5	3	10/30/2026	11/5/2026	5D - Hol					0	Set Light Pole Foundations - Phase 1	
SI	TE-1040	Pave Binder Course - Phase 1	3	3	11/6/2026	11/10/2026	Pave 5D - Hol	_///				/// I	Pave Binder Course - Phase 1	
SI	TE-1050	Install Curbing - Phase 1	5	109	11/11/2026	11/17/2026	5D - Hol					0	Install Curbing - Phase 1	
SI	TE-1060	Site Concrete & Hardscapes - Phase 1	20	94	11/11/2026	12/10/2026	5D - Hol		<u> </u>			<u> </u>	Site Concrete & Hardscapes - Phase	1
SI	TE-1070	Install Bollards & Gates - Phase 1	5	94	12/4/2026	12/10/2026	5D - Hol						Instal Bollards & Gates - Phase 1	
SI	TE-1090	Fine Grade Loam - Phase 1	5	94	12/11/2026	12/17/2026	5D - Hol						Fine Grade Loam - Phase 1	
SI	TE-1080	Pave Top Course & HMA Sidewalks - Phase 1	3	7	4/15/2027	4/19/2027	Pave 5D - Hol						I Pave Top Course & HMA	Sidewalks - Phase 1
SI	TE-1100	Permanent Pavement Markings & Symbols - Phase 1	2	7	4/20/2027	4/21/2027	Pave 5D - Hol		1				Permanent Pavement Ma	rkings & Symbols - Phase 1
SI	TE-1110	Landscape Plantings - Phase 1	10	7	4/22/2027	5/5/2027	5D - Hol (No Winter)		2		<u>//</u> /		Landscape Plantings - Pl	nase 1
SI	TE-1120	Seeding - Phase 1	10	7	4/22/2027	5/5/2027	5D - Hol (No Winter)						Seeding - Phase 1	
Sta	rtup & Testing								1					
H	VAC Equipment								2					
A	vrea A													
	CLST-1040	Equipment Startup - Area A	15	0	2/12/2027	3/4/2027	5D - Hol						Equipment Startup Area A	
	CLST-1160	Testing & Balancing - Area A	15	30	3/5/2027	3/25/2027	5D - Hol		2				Testing & Balancing - Area A	
	CLST-1230	Commissioning - Area A	50	181	3/26/2027	6/4/2027	5D - Hol						Commissioning - Area	Α
A	vrea B								1					

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Activity ID	Activity Description	Orig.	Total	Start	Finish	Calendar	
		Dur.	Float				I 2024 2025 2020 2020 2027 2027 2028 2029
CLST-1000	Equipment Startup - Area B	15	0	3/5/2027	3/25/2027	5D - Hol	Equipment Startup - Area B
CLST-1170	Testing & Balancing - Area B	15	15	3/26/2027	4/15/2027	5D - Hol	🔲 Testing & Balan¢ing - Area B
CLST-1240	Commissioning - Area B	50	298	4/16/2027	6/25/2027	5D - Hol	Commissioning - Area B
Area C							
CLST-1080	Equipment Startup - Area C	15	0	3/26/2027	4/15/2027	5D - Hol	Equipment Startup - Area C
CLST-1150	Testing & Balancing - Area C	15	0	4/16/2027	5/6/2027	5D - Hol	Testing & Balancing - Area C
CLSI-1220	Commissioning - Area C	50	283	5/7/2027	7/19/2027	5D - Hol	Commissioning, Area C
CI ST-1020	Lighting Controls Testing & Programming	20	18	3/23/2027	4/19/2027	5D - Hol	Lighting Controls Testing & Programming
CI ST-1030	Fire Alarm Programming	20	0	3/23/2027	4/19/2027	5D - Hol	
CLST-1060	Emergency Generator Startup & Testing	3	34	3/24/2027	3/26/2027	5D - Hol	Emergency Generator Stattup & Testing
CLST-1110	Fire Alarm Testing	20	0	4/5/2027	4/30/2027	5D - Hol	Fire Alarm Testing
CLST-1100	Test Card Access & Security System	20	3	4/13/2027	5/10/2027	5D - Hol	Test Card Access & Sepurity System
Plumbing							
CLST-1140	Domestic Water Heater Startup & Testing	5	6	4/16/2027	4/22/2027	5D - Hol	Domestic Water Heater Startup & Testing
CLST-1180	Chlorinate Domestic Water Lines	5	6	4/23/2027	4/29/2027	5D - Hol	Chlorinate Domestic Water Lines
Fire Protection	Fire Department Withood & Apprentic Fire Chainking Testing	-	- 20	2/22/2027	2/20/2027		
CLSI-1010		5	29	3/23/2027	3/29/2027	5D - Hol	U Fire Department Witness & Approve Fire Sprinkler lesting
Ecod Services / K		1	34	312312021	312312021	10H - UC	
CLST-1070	Balance & Test Fume Hoods	5	38	3/5/2027	3/11/2027	5D - Hol	1 Balance & Test Furne Hoods
CLST-1090	Ansul System Testing	5	38	3/12/2027	3/18/2027	5D - Hol	I Ansul System Testing
CLST-1120	Board of Health Walk	2	35	3/24/2027	3/25/2027	5D - Hol	Board of Health Walk
CLST-1130	Health / Safety Inspection (Kitchen)	1	35	3/26/2027	3/26/2027	5D - Hol	I Health / Safety Inspection (Kitchen)
Final Inspections			· · ·				
CLST-1190	Final Plumbing Inspection	5	6	4/30/2027	5/6/2027	5D - Hol	I Final Plumbing Inspection
CLST-1210	T&B Reports / Final Affidavits	6	0	5/7/2027	5/14/2027	5D - Hol	T&B Reports Final Affidavits
CLST-1200	Final Fire Alarm Inspection	1	4	5/7/2027	5/7/2027	5D - Hol	I Final Fire Alam Inspection
CLST-1250	Final Electrical Inspection	1	3	5/11/2027	5/11/2027	5D - Hol	I Final Electrical Inspection
CLST-1260	Final Building Inspection	1	0	5/17/2027	5/17/2027	5D - Hol	I Final Building Inspection
CLST-1270	Building Inspector Issues TCO / CO	1	0	5/17/2027	5/17/2027	5D - Hol	I Building Inspector Issues TCO / CO
Building Closeou		400	101	0/00/0007	40/40/0007	50.111	
CLS 1-1320		182	181	3/26/2027	12/13/2027	5D - Hol	
CLST-1290	AF Team Issue Certificate of Substantial Completion	40	0	5/17/2027	5/17/2027	5D - Hol	
CLST-1280	Owner Move	20	3	5/18/2027	6/15/2027	5D - Hol	
CLST-1310	Closeout Documents / Project Closeout	145	181	5/18/2027	12/13/2027	5D - Hol	Closeout Documents / Project Closeout
CLST-1340	Phase 2 Start (Pending End of School Year)	23	0	5/18/2027	6/18/2027	5D - Hol	Phase 2 Start (Pending End of School Year)
CLST-1330	Remaining Punchlist Completion Period - Phase 1	30	257	7/14/2027	8/24/2027	5D - Hol	Remaining Punchlist Completion Period - Phase 1
Phase 2 Constru	uction						
Phase 2A							
Demolition							
PHS2-1020	Make Safes - Phase 2A	4	0	6/21/2027	6/24/2027	5D - Hol	I Make Safes - Phase 2A
PHS2-1000	Temporary Fencing & Construction Entrance - Phase 2A	4	0	6/21/2027	6/24/2027	5D - Hol	I Temporary Féncing & Construction Entrance - Phase 2A
PHS2-1010	Establish E&S Controls - Phase 2A	4	0	6/21/2027	6/24/2027	5D - Hol	I Establish E&S Controls - Phase 2A
PHS2-1030	Hazardous Material Abatement - Phase 2A	20	0	6/25/2027	7/23/2027	5D - Hol	Hazarddu's Matehial Abatement - Phase 2A
PHS2-1040	Demo Existing Building - Phase 2A	25	0	//26/2027	8/27/2027	5D - Hol	Demo Existing Building - Phase 2A
PHS2-1200	Demo & Stip Site - Phase ZA	5	0	8/30/2027	9/3/2027	5D - Hol	Demo & Surb Sile - Phase ZA
PHS2-1050	Bestore Site Grades, Fine Grading - Sitework - Phase 2A	10	0	9/7/2027	9/20/2027	5D - Hol (No Winter)	Restore Site Grades, Fine Grading - Sitework - Phase 2
PHS2-1060	Remaining Drainage / Infiltration System - Sitework - Phase 2A	20	0	9/14/2027	10/11/2027	5D - Hol (No Winter)	Remaining Drainage / Infiltration System - Sitework - F
PHS2-1070	Set Light Pole Foundations - Sitework - Phase 2A	5	5	10/12/2027	10/18/2027	5D - Hol (No Winter)	Set Light Pole Foundations - Stework - Phase 2A
PHS2-1080	Construct Gravel Borrow Subbase - Sitework - Phase 2A	10	0	10/12/2027	10/25/2027	5D - Hol (No Winter)) Construct Gravel Borrow Subbase - Sitework - Phase
PHS2-1090	Pave Binder Course - Sitework - Phase 2A	2	0	10/26/2027	10/27/2027	5D - Hol (No Winter)	Pave Binder Course - Sitework - Phase 2A
PHS2-1100	Fine Grade Loam - Sitework - Phase 2A	2	114	10/26/2027	10/27/2027	5D - Hol (No Winter)	Fine Grade Loam - Sitework - Phase 2A
PHS2-1110	Construct Concrete Sidewalks & Ramps - Sitework - Phase 2A	15	0	10/28/2027	11/17/2027	5D - Hol (No Winter)	Construct Concrete Sidewalks & Ramps - Sitework
PHS2-1150	Landscape - Sitework - Phase 2A	15	114	10/28/2027	11/17/2027	5D - Hol (No Winter)) 🔲 Landscape - Sitework - Phase 2A
PHS2-1280	Install Curbing - Sitework - Phase 2A	4	9	10/28/2027	11/2/2027	5D - Hol (No Winter)) I install Curbing - Sitework - Phase 2A
PHS2-1140	Misc Hardscapes & Site Finishes - Sitework - Phase 2A	10	0	11/4/2027	11/17/2027	5D - Hol (No Winter)) Misc Hardscapes & Site Finishes - Sitework - Phase
PHS2-1160	Pave Top Course - Site work - Phase 2A	2	0	11/16/2027	11/17/2027	5D - Hol (No Winter)) Pave Top Course - Site work Phase 2A
PHS2-1170	Permanent Pavement Markings & Symbols - Sitework - Phase 2A	1	0	4/3/2028	4/3/2028	5D - Hol (No Winter)) Permanent Pavement Markings & Sym

Page 21 of 21	Clinton Middle School: Proposal Schedule														Data Da	ite 12/5	5/2023
Activity ID	Activity Description	Orig.	Total	Start	Finish	Calendar											
		Dur.	Float					2024	2025		2026		2027	2028		202	29
							D J F	MAMJJASONC	JFMAMJJ	ASJND	JFMAMJJASO	NDJF	AJJASOND	JFMAMJJAS	SOND J	FMA	MJJA
Phase 2B																\square	
Recreation Fields																	
PHS2-1200	Earthwork & Grading - Recreation Fields - Phase 2B	10	0	4/4/2028	4/18/2028	5D - Hol								Earthwork	& Grading	- Recre:	ation Field
PHS2-1240	Install Drainage - Recreation Fields - Phase 2B	10	5	4/11/2028	4/25/2028	5D - Hol								🛛 Install Dra	inage - Re	ereation	ι Fields - F
PHS2-1220	Construct Subbase - Recreation Fields - Phase 2B	5	0	4/19/2028	4/25/2028	5D - Hol								Construct	Subbase	- Recrea	ation Field
PHS2-1270	Install Site Lighting - Recreation Fields - Phase 2B	5	0	4/26/2028	5/2/2028	5D - Hol								Install Sit	e Lighting	- Recrea	ation Field
PHS2-1230	Install Turf Field - Recreation Fields - Phase 2B	20	0	5/3/2028	5/31/2028	5D - Hol								📕 Install	Turf Field -	Recreat	tion Fields
PHS2-1130	Fencing & Gates - Recreation Fields - Phase 2B	10	0	6/1/2028	6/14/2028	5D - Hol								📕 📕 Fenci	ng & Gates	s - Recre	eation Fie
PHS2-1250	Install Athletic Equipment - Recreation Fields (As Required) - Phase 2B	10	0	6/15/2028	6/28/2028	5D - Hol							1 /	📕 📕 Instr	all Athletic F	Ξquipme	ent-Recor
PHS2-1410	Install Misc. Site Finishes - Phase 2B	10	0	6/15/2028	6/28/2028	5D - Hol								📕 Instr	all Misc. Site	e Finishe	es - Phase
Project Closeout																	
PHS2-1180	Phase 2 Inspections & Final Punchlist	20	0	6/29/2028	7/27/2028	5D - Hol			///					Pł	ase 2 Insr	pections	& Final P
PHS2-1190	Project Closeout	25	0	7/28/2028	8/31/2028	5D - Hol									Project Clr	oseput	

4.1.2 SCHEMATIC DESIGN BINDER

- S. Local Actions & Approvals
 - Certified SBC Meeting Minutes where SD Submittal was Approved
 - 2. PowerPoint Presentation at All-Boards Meeting
 - 3. Signed Local Actions & Approvals Certification

MSBA Module 4

Schematic Design

4.1.2 SCHEMATIC DESIGN BINDER

S. Local Actions & Approvals

1. Meeting Agendas & Minutes

1.	Agenda: Clinton Middle School Building Committee- 13	6/20/2023
2.	Minutes: Clinton Middle School Building Committee- 13	6/20/2023
3.	Agenda: Clinton Middle School Building Committee- 14	7/18/2023
4.	Minutes: Clinton Middle School Building Committee- 14	7/18/2023
5.	Agenda: Clinton Middle School Building Committee- 15	8/22/2023
6.	Minutes: Clinton Middle School Building Committee- 15	8/22/2023
7.	Agenda: Clinton Middle School Building Committee- 16	9/19/2023
8.	Minutes: Clinton Middle School Building Committee- 16	9/19/2023
9.	Agenda: Clinton Middle School Building Committee- 17	10/03/2023
10.	Minutes: Clinton Middle School Building Committee- 17	10/03/2023
11.	Agenda: Clinton Middle School Building Committee- 18	10/17/2023
12.	Minutes: Clinton Middle School Building Committee- 18	10/17/2023
13.	Agenda: Clinton Middle School Building Committee- 19	11/14/2023
14.	Minutes: Clinton Middle School Building Committee- 19	11/14/2023
15.	Agenda: Clinton Middle School Building Committee- 20	12/19/2023
16.	Minutes: Clinton Middle School Building Committee- 20	12/19/2023
17.	Agenda: Clinton Middle School Building Committee- 21	1/09/2024
18.	Minutes: Clinton Middle School Building Committee- 21	1/09/2024
19.	Agenda: Clinton Middle School Building Committee- 22	1/30/2024
20.	Minutes: Clinton Middle School Building Committee- 22	1/30/2024
21.	Agenda: Clinton Middle School Building Committee- 23	2/06/2024
22.	Minutes: Clinton Middle School Building Committee-23	2/06/2024
23.	Agenda: Clinton Middle School Building Committee- 24	2/20/2024
24.	Minutes: Clinton Middle School Building Committee- 24	2/20/2024





PERMANENT BUILDING COMMITTEE SCHOOL BUILDING SUB-COMMITTEE MEETING AGENDA



Meeting Date:June 20, 2023Meeting Time:6:30 PMProject Name:Clinton Middle SchoolProject Number:202000640305Meeting Purpose:SBC Meeting No. 013Meeting Location:Clinton Middle School – Media Center

- 1. Call to Order & number of voting members present:
- 2. Previous Topics and Approval of June 6th, 2023, Meeting Minutes:
- 3. Invoices and Commitments for approval
 - 3.1. Central Mass Signal, LLC June invoice, in the amount of \$29,687.51
- 4. Public All-Boards Meeting Update
- 5. SBC/PBC Discussion and PBC vote for the preferred option.
- 6. Permanent Building Committee Vote to submit PSR to MSBA
- 7. Local Actions Letter Approval Letter
- 8. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting.
- 9. Public Comment
- 10. Next Meetings
- 11. Adjourn:



PERMANENT BUILDING COMMITTEE SCHOOL BUILDING COMMITTEE SUB-COMMITTEE MEETING MINUTES

Project:	Clinton Middle School	Project No:	202000640305
Subject:	School Building Committee Meeting	Meeting Date:	06/20/2023
Location:	Clinton Middle School	Time:	6:30 PM
Distribution:	Attendees, Project File	Prepared By:	E. Grijalva

Present							
Name	Affiliation						
Michael Ward*	Town Administrator -PBC Member						
Brendon Bailey	School Committee Chair						
Steven Meyer*	Superintendent – PBC Member						
Brian Farragher	Director of Facilities						
Chris McGown*	Chair of PBC, Head of DPW						
Chris Magliozzi*	Vice-Chair of PBC						
Michael Moran*	PBC Member						
Brian Delorey*	PBC Member						
Phil Duffy	Director of Community & Econ. Dev.						
Trip Elmore	DWMP						
Elias Grijalva	DWMP						
Peter Caruso	LPAA						
Sean Brennan	LPAA						
Eric	LPAA						

*PBC Voting Members

Description

Action

13.1	Call to Order: 6:26 DA	A meeting w	as called to	o order by	PBC Chair (C. McGowr		Pacard
	voting members in att	tendance.					1 WILLI 6 01 7	Record
13.2	Previous Topics & Ap the 06/06/2023 meetin Discussion: None. Abstentions: None	oproval of Jung minutes w	ine 6, 202 vas submit	3, Meeting ted by S. M	g Minutes: eyer and se	A motion conded by	to approve B. Delorey.	Record
	All in favor, motion pa	isses, June 6,	2023, mee	etings are o	certified as	approved.		
13.3	Invoices and Commi	tments						Record
	Invoice 1: Central Ma	ss Signal, LLC	C June Invo	oice, in the	amount of	\$29,687.5 ⁻	1	
	A motion was made b Central Mass Signal Ju Discussion : None. Abstentions: None	oy C. Maglioz ine Invoice.	zi and sec	onded by N	И. Moran fo	or the app	roval of the	
			- ·		nal luna Ini	voico for p	avment.	
13.4	All in favor, motion pa	eting Updat	ove Centra :e	ai Mass Sig			<u> </u>	Record
13.4	All in favor, motion pa Public All Boards Me T. Elmore briefly share on June 14, 2023 and option, which is repre	eting Updat es a few pictu I shares the sented in the	ove Centra : e res from tl estimatec e chart bel	he All-Boar I local shai ow.	ds Public m re cost ran	eeting tha ges for ea	t took place ich building	Record
13.4	All in favor, motion pa Public All Boards Me T. Elmore briefly share on June 14, 2023 and option, which is repre Evaluation Criteria	eting Updat es a few pictu d shares the sented in the BR	estimatec AR-1	he All-Boar I local shai ow. AR-2	ds Public m re cost ran	peeting that ges for ea	t took place ich building	Record
13.4	All in favor, motion pa Public All Boards Me T. Elmore briefly share on June 14, 2023 and option, which is repre Evaluation Criteria Enrollment	eting Updat es a few pictu d shares the sented in the BR -	ove Centra res from the estimated chart bel AR-1 700	he All-Boar I local shai ow. AR-2 700	ds Public m re cost ran AR-1.5 700	eeting tha ges for ea <u>NC-1</u> 700	t took place ich building	Record
13.4	All in favor, motion pa Public All Boards Me T. Elmore briefly share on June 14, 2023 and option, which is repre Evaluation Criteria Enrollment Educational Program Fulfillment	eting Updat es a few pictu d shares the sented in the BR - 1	ove Centra res from the estimated chart bel AR-1 700 3	he All-Boar I local shar ow. AR-2 700 4	ds Public m re cost ran AR-1.5 700 3	neeting tha ges for ea <u>NC-1</u> 700 5	t took place ich building	Record
13.4	All in favor, motion pa Public All Boards Me T. Elmore briefly share on June 14, 2023 and option, which is repre Evaluation Criteria Enrollment Educational Program Fulfillment Space Summary	eting Updat es a few pictu d shares the sented in the BR - 1 1	ove Centra res from the estimated chart bel AR-1 700 3 3	he All-Boar I local shar ow. AR-2 700 4 1	ds Public m re cost ran AR-1.5 700 3 2	Note for p ges for ea <u>NC-1</u> 700 5 5	t took place ich building	Record
13.4	All in favor, motion pa Public All Boards Me T. Elmore briefly share on June 14, 2023 and option, which is repre Evaluation Criteria Enrollment Educational Program Fulfillment Space Summary Site & Facility Goals & Objective	eting Updat es a few pictu d shares the sented in the BR - 1 1 4	ove Centra res from the estimated chart bel AR-1 700 3 3 4	he All-Boar I local shar ow. AR-2 700 4 1 4	AR-1.5 700 3 2 4	NC-1 700 5 4	t took place ich building	Record
13.4	All in favor, motion pa Public All Boards Me T. Elmore briefly share on June 14, 2023 and option, which is repre Evaluation Criteria Enrollment Educational Program Fulfillment Space Summary Site & Facility Goals & Objective Energy Efficient & Utilities	eting Updat es a few pictu d shares the sented in the BR - 1 1 4 4	ove Centra res from ti estimated chart bel AR-1 700 3 3 4 4 4	he All-Boar I local shar ow. AR-2 700 4 1 4 3	ds Public m re cost ran AR-1.5 700 3 2 4 4 4	NC-1 700 5 5 4 4	t took place ich building	Record
13.4	All in favor, motion pa Public All Boards Me T. Elmore briefly share on June 14, 2023 and option, which is repre Evaluation Criteria Enrollment Educational Program Fulfillment Space Summary Site & Facility Goals & Objective Energy Efficient & Utilities Construction Phasing Impact	eting Updat es a few pictu d shares the sented in the BR - 1 1 4 4 5-10 YRS	ove Centra res from the estimated e chart bel AR-1 700 3 3 4 4 4 4 4 YRS	he All-Boar I local shar ow. AR-2 700 4 1 4 3 4 YRS	AR-1.5 700 3 2 4 4 4 4 YRS	NC-1 700 5 5 4 4 3 YRS	t took place ich building	Record
13.4	All in favor, motion pa Public All Boards Me T. Elmore briefly share on June 14, 2023 and option, which is repre Evaluation Criteria Enrollment Educational Program Fulfillment Space Summary Site & Facility Goals & Objective Energy Efficient & Utilities Construction Phasing Impact Estimated Local Share	eting Updat eting Updat es a few pictu d shares the sented in the BR - 1 1 4 4 5-10 YRS \$113 - \$125M	ove Centra res from ti estimated chart bel AR-1 700 3 3 4 4 4 4 4 4 878- \$78- \$86M	he All-Boar I local shar ow. AR-2 700 4 1 4 3 4 YRS \$86- \$95M	AR-1.5 700 3 2 4 4 4 4 YRS \$74 - \$81M	NC-1 700 5 5 4 4 3 YRS \$83- \$92M	t took place ich building	Record
13.4	All in favor, motion pa Public All Boards Me T. Elmore briefly share on June 14, 2023 and option, which is repre Evaluation Criteria Enrollment Educational Program Fulfillment Space Summary Site & Facility Goals & Objective Energy Efficient & Utilities Construction Phasing Impact Estimated Local Share	eting Updat es a few pictu d shares the sented in the BR - 1 1 4 5-10 YRS \$113 - \$125M	ove Centra res from the estimated chart bel AR-1 700 3 3 4 4 4 4 4 4 4 878- \$86M	he All-Boar I local shar ow. AR-2 700 4 1 4 3 4 YRS \$86- \$95M	AR-1.5 700 3 2 4 4 4 4 4 7 7 0 5 7 0 3 5 7 0 5 7 0 5 7 0 7 0 3 5 7 0 5 7 0 5 7 0 5 7 0 5 7 0 5 7 0 5 7 0 5 7 0 5 7 0 5 7 7 0 5 7 7 7 0 5 7 7 7 7	NC-1 700 5 5 4 4 3 YRS \$83- \$92M	t took place ich building	Record

T. Elmore briefly recaps each 700-enrollment building discussion and before voting proceeds.	option as a refresher for
AR 1(700) Mainly Repovation – 145 500 SOFTT	
• Total Project Cost Range	\$137 to \$151
 MSBA Reimbursement Range: 	\$58 to \$65
 Potential Local Share Range: 	\$78 to \$86
 Project Duration: 	4 years
 Disturbance to the learning environment: 	Very High
AR.2(700) Addition/Renovation – 156,000 SQFTT	
 Total Project Cost Range: 	\$148 to \$164
 MSBA Reimbursement Range: 	\$63 to \$69
 Potential Local Share Range: 	\$86 to \$95
 Project Duration: 	4 years
 Disturbance to the learning environment: 	High
0	
 AR.1.5(700) Addition/Renovation- 150,000 SQFT 	
 Total Project Cost Range: 	\$134 to \$148
 MSBA Reimbursement Range: 	\$60 to \$66
 Potential Local Share Range: 	\$74 to \$81
 Project Duration: 	4 years
 Disturbance to the learning environment: 	High
• NC.1(700) New Construction – 136,000 SQFT	
 Total Project Cost Range: 	\$135 to \$149
 MSBA Reimbursement Range: 	\$52 to \$57
 Potential Local Share Range: 	\$83 to \$92
 Project Duration: 	3 years
 Disturbance to the learning environment: 	Low
Discussion:	

C.McGown shares that his two top options are AR1.5 & NC1.

C. Magliozzi agrees and states that one option satisfies the educational process. Our school committee and our school department have both said we have an educational problem and a programmatic problem, and you know doing the Base Repair doesn't solve it. Again, see what solves the problem the best and disrupts our children the least. I have a hard time essentially sentencing children for four years of the renovation project.

S. Meyer states that you can't overlook the disruption to students.

P. Duffy asks what the differences between AR1.5 and NC.1, in terms of fulfilling the educational program.

E. Moore explains in any of the reno options, we're constrained by the existing spaces such as the existing cafeteria and gymnasium. We can't move those spaces around. One of the things we talked about was having an area to come in and having that community use of the spaces and having a central area to access both of those. You can't do that when they are on opposite sides of the building. Also, since AR1.5 uses existing spaces, the rooms are not always going to be the right size for what you need and they're not always going to have the right relationship with each other.

S. Brennan additionally the other thing that was part of the educational program was to have a nice separation between the upper and lower school. AR1.5 doesn't quite accomplish that. However, in the new construction option, we have a building that is split.

T. Elmore states a renovation project versus new construction has very different risks associated with it. There are unknowns that you hit in a renovation project. When you're in the demo phase and you're trying to figure out how to replumb these first-floor areas. You're going to cut out most of these hallway slabs and do you influence any of the structural members underneath? All I'm trying to do here is point out the facts, that there will be unknowns and more risk. So, it's just a factor whereas new construction, you're doing it in sequence, do things in the proper order, and you're not going to impact what's in the ground.

P. Duffy asks if you have done soil testing.

T. Elmore explains that we have structural soil testing data from the last project, which saved the project money.

M. Moran asks what the next steps are.

T. Elmore replies that after you pick the option, we'll be moving forward into Schematic Design (SD), which refines the plans better.

M.Moran asks if there will there be any differences in operating costs in NC1 vs AR1.5.

E. Moore you get better insulation value in building option NC-1 versus AR1.5.

PBC vote for the preferred option.

A motion to submit option **NC1- 700 Enrollment**, as the PBC recommended building option for the PSR submission was made by C. Magliozzi, 2nd by B. Delorey.

Discussion: None

	All in favor, motion passes to ap	prove NC1-7	'00 enro	llment as th	e preferred option.					
13.6	 6 Permanent Building Committee Vote to submit PSR to MSBA A motion to submit the Preferred Schematic Report to the MSBA was made by C. Magliozzi ,2nd by B. Delorey. 									
	Call Vote	Yes	No	Abstain]					
	1 Michael Ward	х			-					
	2 Steve Meyer	х								
	3 Chris Magliozzi	х								
	4 Michael Moran	х								
	5 Brian Delory	х								
	6 Timothy O' Toole									
	7 Chris McGown	х								
13.7	Those AGAINST; ABST Motion: <u>Passes</u> (An official copy will be provided Discussion: None Local Actions Letter Approval T. Elmore explains that part of t which is standard MSBA languag open public meetings and that the Discussion: None	d for the PSR Letter the PSR subm ge on your let they have be	submiss nission is terhead en poste	sion) s to put toge that just sta ed. No votin	ether a local action letter ites that we've had these g needed.	Record				
13.8	Other Topics not Reasonably Discussion: None.	Anticipated	48 houi	rs prior to t	he Meeting.	Record				
13.9	Public Comment: Discussion: None					Record				
13.10	Next Meeting: • <u>07.18.2023</u> - CMS Buildi	ng Committe	e Virtua	I ZOOM Me	eting No.014 @ 6:30 PM	Record				
13.11	Adjourn: 7:39 PM A motion w adjourn the meeting. Discussion: None. All in favor, the meeting is adjou	vas made by urned.	S. Mey	er and seco	onded by B. Delorey to	Record				

Sincerely, DORE + WHITTIER Elias Grijalva Assistant Project Manager Project: Clinton Middle School Meeting: School Building Committee Meeting No. 013 – 06/20/2023 Page: 6

Cc: Attendees, File

The above is my summation of our meeting. Please contact me for incorporation into these minutes if you have any additions and/or corrections.

PERMANENT BUILDING COMMITTEE SCHOOL BUILDING SUB-COMMITTEE MEETING AGENDA



Meeting Date:	July 18, 2023 DORE + WHIT	τI
Meeting Time:	6:30 PM	
Project Name:	Clinton Middle School	
Project Number:	202000640305	
Meeting Purpose:	SBC Meeting No. 014	
Meeting Location:	Zoom	
Meeting Link:	https://us06web.zoom.us/j/84493667367?pwd=cDJtdmtnUEpUNnd0Q3Q5NS9lWDlSdz09)
Meeting ID:	844 9366 7367	
Passcode:	419054	
One tab Mobile:	+16468769923,84493667367#,,,,*419054# US (New York)	

- Call to Order & number of voting members present: 1.
- Renovation/ Construction of the Library 2.
- Senior Center Carriage Housing Painting Change Order 3.
- Previous Topics and Approval of June 20th, 2023, Meeting Minutes: 4.
- 5. Invoices and Commitments for approval:
 - 5.1. DWMP invoice #011, for the month of June, in the amount of \$15,000.00
 - 5.2. LPA|A Invoice #006, for the month of June, in the amount of \$31,445.00
- 6. PSR Submission Update
- 7. Facilities Assessment Committee Update
- Other Topics not Reasonably Anticipated 48 hours prior to the Meeting. 8.
- **Public Comment** 9.
- 10. Next Meetings
- 11. Adjourn:


PERMANENT BUILDING COMMITTEE SCHOOL BUILDING COMMITTEE SUB-COMMITTEE MEETING MINUTES

Project:	Clinton Middle School	Project No:	202000640305
Subject:	School Building Committee Meeting	Meeting Date:	07/18/2023
Location:	ZOOM	Time:	6:30 PM
Distribution:	Attendees, Project File	Prepared By:	E. Grijalva

Name	Affiliation
Michael Ward*	Town Administrator -PBC Member
Steven Meyer*	Superintendent – PBC Member
Chris McGown*	Head of DPW - Chair of PBC
Chris Magliozzi*	Vice-Chair of PBC
Shane McCarthy	Teacher
Trip Elmore	DWMP
Elias Grijalva	DWMP
Peter Caruso	LPAA
Sean Brennan	LPAA
Phil Duffy	Director of Community & Econ. Dev.
Marie Letarte	Public

*PBC Voting Members

	Description	Action
14.1	Call to Order : 6:31 PM meeting was called to order by PBC Chair C. McGown with 4 of 7 voting members in attendance.	Record
14.2	Renovation / Construction of the Library	Record
	M. Latard updates the PBC on the library project that was approved by the Massachusetts Board of Library commissioners, and they required both town and select board approvals. It is a town project, and the town will need a permanent building committee like the Clinton Middle School building project. We would like to be added to the agenda from time to time to update the PBC on the progress of the library and possibly get feedback.	
	M. Ward shares that the library board has hired a consultant and they are going to write the application for them as well as work on community outreach. They need to get input as to what is needed for the library, maybe this committee can give them some input.	
14.3	Senior Center Carriage Housing Painting Change Order	Record
	Proposal: Fox Painting Co. change order proposal in the amount of <u>\$40,000.00</u>	
	A motion was made by <u>S. Meyer</u> and seconded by <u>C. Magliozzi</u> for the approval of the Senior Center Carriage Housing Painting Change order.	
	Discussion: None. Roll Call Vote: S. Meyer (Y), C. Magliozzi (Y), C. McGown (Y), M. Ward (Y) Abstentions: None	
	All in favor, motion passes to approve Senior Center Carriage Housing Painting Change Order.	
14.4	Previous Topics & Approval of June 20, 2023, Meeting Minutes: A motion to approve the 06/20/2023 meeting minutes was submitted by <u>M. Ward</u> and seconded by <u>S. Meyer.</u>	Record
	Discussion: None. Roll Call Vote: S. Meyer (Y), C. Magliozzi (Y), C. McGown (Y), M. Ward (Y) Abstentions: None	
	All in favor, motion passes, June 20, 2023, meetings are certified as approved.	
14.5	Invoices and Commitments	Record
	Invoice 1 : DWMP Invoice #011, for the month of June, in the amount of \$ <u>15,000.00</u>	
	A motion was made by <u>M. Ward and seconded by C. Magliozzi</u> for the approval of the DWMP June invoice.	

	 Discussion: None. Roll Call Vote: S. Meyer (Y), C. Magliozzi (Y), C. McGown (Y), M. Ward (Y) Abstentions: None All in favor, motion passes to approve DWMP June invoice. Invoice 2: LPA A Invoice #006, for the month of June, in the amount of \$<u>31,445.00</u> A motion was made by <u>C. Magliozzi</u> and seconded by <u>S. Meyer</u> for the approval of the LPA A June Invoice. Discussion: None. Roll Call Vote: S. Meyer (Y), C. Magliozzi (Y), C. McGown (Y), M. Ward (Y) Abstentions: None All in favor, motion passes to approve LPA A June invoice 	
14.6	 PSR SUBMISSION T. Elmore shares some important dates and upcoming meetings. 06.27.2023 - PSR Submitted to MSBA 07.19.2023 - Pre- Facilities Assessment Subcommittee Meeting Running through the process of the FAS meeting Boilerplate that describes the next steps after approval 08.02.2023 - Facilities Assessment Subcommittee TBD - Preferred Schematic Conference Call with District Board 08.30.2023 - Approval date expected to move forward into schematic design. Discussion: T. Elmore shares that in Module 4, we further define elements of the building and start the process of developing a real schedule, a real budget, drawings with layouts, and much more details. After the conclusion of Module 4, we go into funding the project, which should take place in June of 2024. 	Record
14.7	 Facilities Assessment Committee Update The Facilities Assessment Subcommittee meets to hear district presentations regarding proposed projects and provide feedback to districts before the project is presented to the Board. The Project Management Subcommittee meets to review audit appeals for MSBA projects. Districts with projects requiring Board approval for a preferred schematic design and/or project scope and budget will be asked to present information about the project at a Facilities Assessment Subcommittee meeting in advance of the Board meeting at which the project vote will occur. 	Record

14.8	Other Topics not Reasonably Anticipated 48 hours prior to the Meeting.	Record
	Discussion: S. Meyer shares that in the next couple of months, two big topics we'll be discussing are the New Energy Code and whether we will go Design Bid Build or Construction Manager (CM) @ Risk.	
	T. Elmore states that he anticipates that at our next school building committee meeting we will address the New Energy Code, New Stretch Code, and New Mass state building code. The Green Engineer would participate in those meetings to allow a forum where we could ask questions and get them answered regarding these topics. This is new to the industry in the state of Massachusetts and all the design professionals are trying to figure it out. There are still lots of questions.	
	M. Ward asks if there will be any information provided for the CM @ risk, like a list of Pros and Cons or a presentation.	
	T. Elmore replies that we have a presentation of the pros/cons and various benefits that each can bring to the table. We're anticipating the CM @ Risk discussion will take place in the month of September, with the idea of bringing a CM on board by the end of the year, so that they could participate in the Schematic Design evaluation, which includes both the estimate as well as the phasing and scheduling of the work.	
14.9	Public Comment: Discussion: None	Record
14.10	 Next Meeting: 08.22.2023 - CMS Building Committee Remote @ 6:30PM Discussion: S. Brennan shares that given our current work plan and design review, we do foresee the need for a meeting for the next three months. We have some big items we want to share, obviously, sustainability, CM @ Risk, updated building plans, layouts, and material selections. 	Record
14.11	 Adjourn: 7:01 PM A motion was made by <u>S. Meyer</u> and seconded by <u>C. Magliozzi</u> to adjourn the meeting. Discussion: None. All in favor, the meeting is adjourned. 	Record

Sincerely, DORE + WHITTIER Elias Grijalva Assistant Project Manager Cc: Attendees, File The above is my summation of our meeting. Please contact me for incorporation into these minutes if you have any additions and/or corrections.

PERMANENT BUILDING COMMITTEE SCHOOL BUILDING SUB-COMMITTEE MEETING AGENDA



Meeting Date:	August 22, 2023 DORE + 1	wнi
Meeting Time:	6:30 PM	
Project Name:	Clinton Middle School	
Project Number:	202000640305	
Meeting Purpose:	SBC Meeting No. 015	
Meeting Location:	Zoom	
Meeting Link:	https://us06web.zoom.us/j/88026164931?pwd=NElVV1ZmKzJVdDl4OE1rT1BqZ1lEZ	<u>z09</u>
Meeting ID:	880 2616 4931	
Passcode:	409629	
One tab Mobile:	+16468769923,,88026164931#,,,,*409629# US (New York)	

- 1. Call to Order & number of voting members present:
- 2. Senior Center Carriage Housing Invoice and Change Order for Approval
- 3. Previous Topics and Approval of July 18th, 2023, Meeting Minutes:
- 4. Invoices and Commitments for approval:
 - 4.1. DWMP invoice #012, for the month of July, in the amount of <u>\$15,000.00</u>
 - 4.2. LPA|A Invoice #007, for the month of July, in the amount of \$52,700.00
 - 4.3. LPA||A Amendment No.003, for additional land survey services in the amount of \$17,600.00
- 5. Facilities Assessment Subcommittee (FAS) Update
- 6. LPA|A Update
- 7. Construction Delivery Method Discussion Only
- 8. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting.
- 9. Public Comment
- 10. Next Meetings
- 11. Adjourn:

PERMANENT BUILDING COMMITTEE SCHOOL BUILDING COMMITTEE SUB-COMMITTEE MEETING MINUTES



Project:	Clinton Middle School	Project No:	202000640305
Subject:	School Building Committee Meeting	Meeting Date:	08/22/2023
Location:	ZOOM	Time:	6:30 PM
Distribution:	Attendees, Project File	Prepared By:	E. Grijalva
MSBA Module:	3- Feasibility Study		

Meeting Agenda

- 1. Call to Order
- 2. Senior Center Housing Invoice and Change Order
- 3. Previous Topics and Approval of July 18, 2023, Meeting Minutes
- 4. Invoices and Commitments for Approval
- 5. Facilities Assessment Subcommittee Update
- 6. LPA|A Update
- 7. Construction Delivery Method Discussion Only
- 8. Other Topics not Reasonably Anticipated 48 hours prior to the meeting
- 9. Public Comment
- 10. Next Meeting
- 11. Adjourn

Name

Brendan Bailey Steven Meyer* Chris McGown * Chris Magliozzi* Michael Moran* Brian Delorey* Kelly Turcotte Trip Elmore Elias Grijalva Peter Caruso Sean Brennan Eric Moore Tina Joel Bates Sam Dov

Affiliation

School Committee Chair Superintendent – PBC Member Chair of PBC- Head of DPW Vice-Chair of PBC PBC Member PBC Member Special Education Parent Advisory DWMP- Project Director DWMP – Assistant PM LPA | A – Project Manager LPA | A – Project Architect LPA | A – Sr. Project Architect Public Public



ltem No.	Description	Action
15.1	Call to Order: 6:32 PM meeting was called to order by PBC Chair, C. McGown with 5 of 7 members in attendance	Record
15.2	Senior Center Carriage Housing Invoice and Change Order Approval:	Record
	Fox Painting Co, Application for Payment No.001 Request, in the amount of <u>\$71,487.50</u>	
	A motion to approve Fox Painting Co. application for payment request, in the amount of $\frac{71,487.50}{1}$ was submitted by C. Magliozzi and seconded by M. Moran .	
	Discussion: None Roll Call Vote: C. Magliozzi (Y), M. Moran (Y), B. Delorey(Y) S. Meyer (Y), C. McGown (Y) Abstentions: None	
	All in favor, motion passes.	
	Fox Painting Co, Change Order Request, in the amount of <u>\$18,000.00</u>	
	A motion to approve the Fox Painting Co, Change Order Request, in the amount of <u>\$18,000.00</u> was submitted by <u>B. Delory</u> and seconded by <u>C. Magliozzi</u> .	
	 Discussion: B. Delorey asks if we have the funds to pay for this. C. McGown confirms there are funds available. Currently, the project is still under budget. Roll Call Vote: C. Magliozzi (Y), M. Moran (Y), B. Delorey(Y) S. Meyer (Y), C. McGown (Y) Abstentions: None 	
	All in favor, motion passes, July 18, 2023, meetings are certified as approved.	
15.3	Previous Topics & Approval of July 18, 2023, Meeting Minutes: A motion to approve the 07/18/2023 meeting minutes was submitted by <u>S. Meyer</u> and seconded by <u>M. Moran.</u>	Record
	Discussion: None. Roll Call Vote: C. Magliozzi (Y), M. Moran (Y), B. Delorey(Y) S. Meyer (Y), C. McGown (Y) Abstentions: None	
	All in favor, motion passes, July 18, 2023, meetings are certified as approved.	
15.4	Invoices and Commitments for Approval	Record
	Invoice 1: DWMP Invoice #012, for the month of July, in the amount of \$15,000.00	
	A motion was made by <u>B. Delorey</u> and seconded by <u>S. Meyer</u> for the approval of the DWMP July invoice.	

15.5



Discussion: None.	
Roll Call Vote: C. Magliozzi (Y), M. Moran (Y), B. Delorey(Y) S. Meyer (Y), C. McGown (Y)	
Abstentions: None	
All in favor, motion passes to approve DWMP July invoice.	
Invoice 2: LPA A Invoice #007, for the month of July, in the amount of \$52,700.00	
A motion was made by <u>B. Delorey</u> and seconded by <u>C. Magliozzi</u> for the approval of the LPA A	
July Invoice.	
Discussion: None.	
Roll Call Vote: C. Magliozzi (Y), M. Moran (Y), B. Delorey(Y) S. Meyer (Y), C. McGown (Y)	
Abstentions: None	
All in favor, motion passes to approve LPA A July invoice.	
LPA A Amendment No.003 Request for Approval, in the amount of \$17,600.00	
T. Elmore explains this amendment is for the survey required to finalize the deed. National	
Grid has requested a new survey to be completed, due to the existing survey being 20 years	
old therefore a new survey is needed to finalize the Deed	
C Magliozzi asks if there is a source for this fund	
T Fimore confirms that the funds are available	
The motion was made by B Delorey and seconded by S Meyer for the approval of LPALA	
Amendment No 003	
Amendment No.005.	
Discussion: None	
Boll Call Vote: C. Magliozzi (V) M. Moran (V) P. Dolorov(V) S. Mover (V) C. McCown (V)	
Abstantians: Napa	
Abstentions: None	
All in favore motion process to common LDA LA habitation	
All in lavor, motion passes to approve LPATA July involce.	
Facilities Assessment Cub sommittes (FAC) Undets	Deservel
Facilities Assessment Subcommittee (FAS) Opdate	Record
The following items were tonics of discussion during the FAC monthing	
The following items were topics of discussion during the FAS meeting:	
Appreciation of the Educational Program and responses to comments.	
Opportunity to increase World Language program offerings for all students including	
English Learners.	
Consideration to adjust Health and Physical Education program schedules to extend	
throughout the school year.	
• Proposed use and staffing considerations for the proposed Media Center and Maker	
Space.	



	• The size of the proposed parking in relation to the building as well as refinements to integrate safety measures, designated parking areas and green space; (combined what wore two bullets)	
	 Anticipated further refinement of the building massing to clarify scale and volumes, 	
	character, and experience upon entry.	
	Appreciation of the layout of the academic and public spaces.	
	Distribution and use of Special Education spaces and DESE submittal process.	
	 Student class size and age requirements related to sub-separate classrooms within a 4- 8 grade configuration; and 	
	 Opportunities for renewable energy use such as geothermal wells, solar papels and 	
	other potential energy saving resources.	
	Discussion: None	
15.6	LPA A Update	Record
	S. Brennan demonstrates the updated floor plans, site plan, and traffic patterns, since the Preferred Schematic Report submission on June 20, 2023. (Refer to the meeting packet for visual slides)	
	Key differences in Updated floor plans	
	Common spaces are now the collaborative space.	
	 Color reinforces wayfinding to identify grade neighborhoods. 	
	 Locker rooms switched sides giving more opportunities for further efficiency. 	
	 Locations of Skylights that will bring light into the 2nd and 1st floors The upper floor cap view into the Cympacium 	
	 Bathrooms have sinks on the exterior side without doors, which reduces the amount of 	
	loitering.	
	S. Brennan talks about the new energy code and its implications for projects funded by the	
	Massachusetts School Building Authority.	
	Old Base Requirement:	
	LEED for Schools Certified or NE-CHPS Verified	
	Exceed Current Energy Code by 10%	
	 Specific IAQ Points Required – LEED or NE-CHPS 	
	Previously for an Additional 2% reimbursement:	
	Exceed current energy code by 20%	
	Base Requirement	
	LEED for Schools Silver or NE-CHPS Verified	
	Meeting new Stretch Code	
	Minimum IAQ Points – LEED or NE- CHPS	
	For an additional 3%: meet OPT in Specialized Code	
	For an additional 1%: Achieve two additional IAQ points in LEED or CHPS	
	4% additional available in total	



	Discussion:	
(Construction Delivery Method Discussion Only:	Recor
-	T. Elmore explains the different construction delivery methods: CM at Risk (MGL Chapter 149a) versus Design Bid Build (MGL Chapter 149).	
	Project owner requirements and considerations are as follows:	
-	Budget Impact	
	• Design	
	• Schedule	
	 Risk Assessment (repair project, lack of swing space, impact on School), 	
	Owners Expertise	
	MGL 149: <u>Design – Bid- Build Facts</u>	
	• You are purchasing a building in accordance with plans and specifications.	
	Selection is bid/price based (lowest bidder wins)	
	• Design is finished, then the bid to GC and subcontractors (After MSBA PFA) – You will	
	not know the number until after.	
	Traditional Massachusetts project delivery method	
	Sealed bid, fixed price	
	 Contract value based on a "lump sum" amount. 	
	"Closed Book" construction budget accounting	
	MGL Chapter 149a: CM at Risk Facts	
	• You are hiring a construction manager firm that manages the construction of buildings	
	and provides input during the design process. They will help estimate the project and	
	review the drawings. They are part of the team.	
	• Selection is qualifications and cost based.	
	• CM provides pre-construction (Prior to MSBA PFA) & and construction services. – This	
	option costs a little more, but it is helpful when creating our budget. They will have	
	more input on schedule, phasing, and logistics.	
	• CM participates in the sub-contractor prequalification process.	
	 Option for early release bid packages or "fast-track" schedules – If the design is 	
	finishing in October and we want to start construction the following summer, we have	
	the option to do an early release package for site work, abatement, demolition, etc.	
	This allows work to start earlier.	
	• Contract value based on a "Guaranteed Maximum Price (GMP)" Cost of work + General	
	Conditions + negotiated CM Fee	
	GMP Assembled with assumptions and allowances for phasing/ logistics (during	
	schematic design – potential for additional reimbursement for unforeseen items.	
	"Open Book" construction budget accounting.	



CM @ Risk Selection Process – 2 ½ to 3 months duration

- 1) OIG Application
- 2) Form Prequalification / CM Selection Committee
- 3) Develop an Issue RFQ with the owner.
- 4) Develop and issue an RFP with the owner.
- 5) Conduct Interviews
- 6) Select Top choice, Construction Manager

Design Bid Built: Advantages

- o Familiar delivery method
- Simple procurement process to manage.
- Lowest price proposed & accepted.
- Simple accounting (GC/GR)

Construction Manager At Risk: Advantages

- o Qualifications-based selection
- The builder assists with budgeting, logistics and constructability.
- Schematic Design Estimate (reconciled) set budget (Prior to MSBA PFA)
- Fast track scheduling allows the use of Early Release Packages (ERP)
- CM joins the "Team" during the design phase and provides input as documents are developed.
- Negotiations and a "Team" atmosphere reduce the likelihood of claims and schedule extensions.
- CM assumes risk for project cost and schedule.

> DBB: Disadvantages

- Linear process: may mean longer schedule durations.
- Construction cost not known until bids received; may require re-design/rebid (AFTER PFA)
- The designer must develop a project phasing and schedule approach.
- o GC project management, safety, and field supervision is minimal.
- o Increased probability of disputes/claims
- No GC input in design, planning, constructability, or budgeting
- Full costs not realized until completion.

> CMR: Disadvantages

- o Requires OPM/Design team to be familiar with the GMP model.
- The two-step procurement process takes time.
- o Additional CM costs related to preconstruction services.

Conclusions

- DBB is best suited for less complicated/complex projects with a straightforward design.
- CMR is best suited for complicated/complex project design, phasing, logistics, and schedule management challenges, or strict schedule limitation.

Discussion:



	M. Moran asked who determines the fee schedule for CM @ Risk.	
	T. Elmore explains once we prequalify construction managers, we then issue an RFP Request for Proposals. The CM applicants will then submit a proposal that includes a fee amount, and project team member rates, which will ultimately determine the fee schedule.	
	C. Magliozzi do the design professionals have any opinion about how much value is gained by going CM @ Risk?	
	S. Brennan responded that there is a lot less work, it allows less time for this committee to spend on reviewing and processing the information and potentially holding up the flow of construction.	
	P. Caruso states that he is a big supporter of CM @ Risk. The process is more integrated with the team and we're able to descope the non-file subcontractors alongside the CM.	
	T. Elmore empathizes that this is an open-book process, you get a chance to see what's behind the scenes.	
	C.McGown when do we decide which path to go?	
	T. Elmore replies at the next PBC meeting, in September.	
	C.McGown after the vote, how do we start the process of choosing the Construction Manager?	
	T. Elmore states first we get the vote, then we submit an application to the Inspector General which may take up to sixty-plus days to get the application reviewed by the Office of Inspector General. We anticipate it will take a minimum of three to four months to get the CM on board. Then we want them on board two to three months prior to the submittal of the schematic design. Once we bring them on board, we put in the contract that they're being hired for a stipend, typically around twenty-five to thirty thousand, and then we are obligated to pay them that amount to help us get an estimate for the schematic design submission, produce a schedule, and do a phasing plan. (Refer to CM Selection Process slide)	
15.8	Other Topics not Reasonably Anticipated 48 hours prior to the Meeting:	Record
	Discussion: None	
15.9	Public Comment:	Record



	T. Elmore mentions that National Grid has approved the survey scope per conversation with	
	Mike Ward.	
15.10	Next Meeting:	Record
	09.19.2023 – CMS Building Committee Remote @ 6:30 PM – Location: TBD 10.17.2023 – CMS Building Committee Remote @ 6:30 PM – Location: TBD	
	Discussion: None	
15.11	Adjourn: 7:22 PM A motion was made by <u>M. Moran</u> and seconded by <u>C. Magliozzi</u> to adjourn the meeting.	Record
	Discussion: None. Roll Call Vote: C. Magliozzi (Y), M. Moran (Y), B. Delorey(Y) S. Meyer (Y), C. McGown (Y) Abstentions: None	
	All in favor, the meeting is adjourned.	

Sincerely, DORE + WHITTIER Elias Grijalva Assistant Project Manager Cc: Attendees, File The above is my summation of our meeting. Please contact me for incorporation into these minutes if you have any additions and/or corrections.

PERMANENT BUILDING COMMITTEE SCHOOL BUILDING SUB-COMMITTEE MEETING AGENDA



Meeting Date:	September 19, 2023 DORE + WH	117
Meeting Time:	6:30 PM	
Project Name:	Clinton Middle School	
Project Number:	202000640305	
Meeting Purpose:	SBC Meeting No. 016	
Meeting Location:	ZOOM	
Meeting Link:	https://us06web.zoom.us/j/82807387737?pwd=c0E5QitBVkU2Vjh0TElVb0YzTVZwdz09	1
Meeting ID:	828 0738 7737	
Passcode:	859559	
One tab Mobile:	+13126266799,,82807387737#,,,,*859559# US (Chicago)	

- 1. Call to Order & number of voting members present:
- Senior Center Carriage Housing Invoice No.002 for approval, in the amount of \$145,112.50 2.
- Previous Topics and Approval of August 22, 2023, Meeting Minutes: 3.
- Project Budget Update 4.

- 4.1. LPA Amendment#004 Request for approval
- 5. Invoices for Approval:
 - 5.1. DWMP invoice #013, for the month of August, in the amount of \$15,000.00
 - 5.2. LPA A Invoice #008, for the month of August, in the amount of $\frac{35,540.00}{100}$
- 6. MSBA Board of Directors Update
- 7. LPA | A Update
- Construction Delivery Methodology Discussion and Vote 8.
 - 8.1. If CM at Risk is voted to proceed, Designation of the Qualification, Proposal, and Interview voting members need to be established and approved.
- 9. Community Outreach
- 10. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting.
- 11. Public Comment
- 12. Next Meetings
- 13. Adjourn:

PERMANENT BUILDING COMMITTEE SCHOOL BUILDING COMMITTEE SUB-COMMITTEE MEETING MINUTES



Project:	Clinton Middle School
Subject:	School Building Committee Meeting
Location:	ZOOM
Distribution:	Attendees, Project File
MSBA Module:	4- Schematic Design

Project No:	202000640305
Meeting Date:	09/19/2023
Time:	6:30 PM
Prepared By:	E. Grijalva

Meeting Agenda

		Name	Affiliation
1.	Call to Order	Michael Ward*	Town Admin- PBC Member
2.	Senior Center Housing Invoice for Approval	Steven Meyer*	Superintendent – PBC Member
3.	Previous Topics and Approval of August 22, 2023, Meeting Minutes	Chris McGown*	Chair of PBC, Head of DPW
4.	Project Budget Update	Chris Magliozzi*	Vice-Chair of PBC
5.	Invoices and Commitments for Approval	Brian Delorey*	PBC Member
6.	MSBA Board of Directors Update	Brendon Bailey	School Committee Chair
7.	LPA A Update	Matthew Varakis	School Committee Vice-Chair
8.	Construction Delivery Method Discussion Only	Shane McCarthy	Teacher
9.	Community Outreach	Bill McGrail	Finance Committee Co-Chair
10.	Other Topics not Reasonably Anticipated 48 hours prior to the meeting	Phil Duffy	Director of Community & Econ. Dev.
11.	Public Comment	Kelly Turcotte	Special Education Parent Advisory Council
12.	Next Meeting	Christine M.	Public
13.	Adjourn	Steve O' Connell	Public
		Trip Elmore	DWMP- Project Director
		Mike Cox	DWMP- Project Manager
		Elias Grijalva	DWMP- Assistant Project Manager
		Peter Caruso	LPAA – Project Manager
		Sean Brennan	LPAA- Project Architect
		Eric Moore	LPAA- Sr. Project Architect
		Kevin Seaman	Seaman Engin.
		Lynne Giesecke	Studio 2112



ltem No.	Description	Action
16.1	<u>Call to Order</u> : 6:34 PM meeting was called to order by PBC Chair, C. McGown with 5 of 7 members in attendance.	Record
16.2	Senior Center Carriage Housing Invoice and Change Order Approval:	Record
	Fox Painting Co, Application for Payment No.002 Request, in the amount of <u>\$145,112.50</u>	
	A motion to approve Fox Painting Co.'s application for payment request, in the amount of \$145,112.50 was submitted by S. Meyer and seconded by C. Magliozzi.	
	Discussion : None; Roll Call Vote: C. Magliozzi (Y), S. Meyer (Y), C. McGown (Y); Abstentions: M. Ward (experienced technical difficulties) All in favor, motion passes.	
16.3	Previous Topics & Approval of August 22, 2023, Meeting Minutes:	Record
	A motion to approve the 08/22/2023 meeting minutes was submitted by S. Meyer and seconded by C. Magliozzi.	
	Discussion : None; Roll Call Vote: C. Magliozzi (Y), S. Meyer (Y), C. McGown (Y); Abstentions: M. Ward (experienced technical difficulties)	
46.4	All in favor, motion passes, August 22, 2023, meetings are certified as approved.	
16.4	Project Budget Update: <u>M.Cox</u> updates the committee on the current project budget. After tonight's approval of LPA A Amendment No.004, there will be \$41,706.32 left in the budget for future expenditures.	Record
	 <u>LPA A Amendment No.004 request.</u> Geotechnical Testing Services: \$10,010.00 (4) borings, taking the four corners of the building to confirm the soil condition. 	
	 Fire Hydrant Flow Test: \$1,925.00 Confirm that there is enough water pressure so that we do not have to put a fire pump in the building. 	
	• Amendment No.004 Total: <u>\$11,935.00</u>	
	A motion was made by S. Meyer, and second by M. Ward for the approval of the LPA A Amendment No.004.	
	Discussions: None; Roll Call Vote: M. Ward (Y), S. Meyer (Y), C. McGown (Y), B. Delorey; Abstentions: C. Magliozzi (experienced technical difficulties)	
	All in favor, motion passes to approve LPA A Amendment No.004 request.	



16.5	Invoices and Commitments for Approval	Record
	Invoice 1: DWMP Invoice #013, in the amount of \$15,000.00	
	A motion was made by M. Ward and seconded by B. Delorey for the approval of the DWMP August invoice.	
	Discussion : None; Roll Call Vote: M. Ward (Y), S. Meyer (Y), C. McGown (Y), B. Delorey; Abstentions: C. Magliozzi (experienced technical difficulties) All in favor, motion passes to approve DWMP invoice.	
-	Invoice 2: LPA A Invoice #008, in the amount of 35,540.00	
	A motion was made by M. Ward and seconded by S. Meyer for the approval of the LPA A August Invoice.	
	Discussion : None; Roll Call Vote: M. Ward (Y), S. Meyer (Y), C. McGown (Y), B. Delorey; Abstentions: C. Magliozzi (experienced technical difficulties) All in favor, motion passes to approve LPA A invoice.	
16.6	MSBA Board of Directors Update <u>T. Elmore</u> shares a few slides from the MSBA Board of Directors meeting that took place on August 30, 2023. The MSBA accepted the project at an estimated total project cost of \$142,184,781.00, with a proposed square footage of 136,000, and a grade configuration of grades 4-8. The MSBA has invited the Town of Clinton into Schematic Design (SD). Discussion: None	Record
16.7	LPA A Update	Record
	<u>P. Caruso</u> introduces two of LPA A sub-consultants L. Giesecke from Studio 2112, landscape architect, and Kevin Seaman from Seaman Engineering, Mechanical engineer. He demonstrates the updated floor plans and some of the changes made since the last presentation.	
	L. Giesecke demonstrates the up-to-date site plan and traffic pattern. (refer to meeting packet)	
	Discussion:	
	<u>C. McGown</u> asks, can the buses queue along those two lanes near the rain garden? S. Brennan confirms the buses can. They could start queueing all the way back to the intersection.	
	<u>M. Varakis</u> asks if we know how many buses are utilized at the middle school on a typical day.	
	<u>M. Varakis</u> states that hopefully, we will have more room than we have today.	
	<u>S. Meyer</u> states that during the executive meeting, we discussed relocating the playground closer to the basketball court so that the basketball court and the play area are close in proximity.	



<u>L. Giesecke</u> suggests moving the playground north of the landscape berm, right outside the fourth-grade wing, taking advantage of that unprogrammed space, and maintaining the Flexible Greenspace for the PE classes.

<u>S. Meyer</u> likes the suggestion because the playground would be right outside their classroom. A good transition for the students.

<u>S. Meyer</u> asks about area 14 – Multipurpose field, has it been decided if that area will be grass or turf?

<u>L. Giesecke</u> confirms it is grass.

<u>E. Moore</u> states if interested, we can always do an add-alternate in exploring a synthetic turf field.

<u>M. Varakis</u> states that he thinks it's a smart play to at least evaluate it so we can understand the potential cost associated with synthetic turf.

<u>T. Elmore</u> states that if turf is a selected option, then that will increase the budget by an estimated 1 million dollars. It's a significant upgrade.

L. Giesecke explains that there will long long-term operational cost savings.

<u>P. Duffy</u> asks if there is any plan to account for pedestrian circulation along West Boylston Street, there is an existing sidewalk in front of the middle school leading up to the High school. <u>T. Elmore</u> replies that the sidewalk will remain because we are not disturbing any of that area along West Boylston Street.

L. Giesecke comments there will be pedestrian connections to this within the project.

<u>P. Duffy</u> asked the committee what they thought about the limited pedestrian accommodation. <u>C. McGown</u> states he is not sure if any upgrades would be part of this project.

<u>C. Magliozzi</u> states he thinks the design team should spend some time thinking about how they can improve the street.

<u>P. Duffy</u> states it might be a good opportunity to look at it within the scope of this project.

<u>C.McGown</u> agrees that the sidewalk is in disrepair and one way or another, it should be upgraded whether it's part of this project or not.

<u>S. Brennan</u> gives an overview of the implications of the MSBA, recently adopted amendments to their energy efficiency credits, and the impact of the new stretch code that the state of Massachusetts adopted.

Old Base Requirement: (PSR Design – Program No Longer Exist)

- LEED for Schools Certified or NE-CHPS Verified
- Exceed Current Energy Code by 10%
- Specific IAQ Points Required LEED or NE-CHPS

Previously for an Additional 2% reimbursement:

• Exceed current energy code by 20%

Base Requirement

- LEED for Schools Silver or NE-CHPS Verified
- Meeting new Stretch Code
- Minimum IAQ Points LEED or NE- CHPS
- For an additional 3%: meet OPT in Specialized Code



• <u>For an additional 1%</u>: Achieve two additional IAQ points in LEED or CHPS

• 4% additional available in total

<u>S. Brennan</u> states our greatest opportunity to make and implement these changes is now, early in the process, so we can avoid costly change orders, but most important is locking in your percentage reimbursement rate and the scope of work at the end of Schematic Design.

New Stretch Mandatory Code Requirements (refer to meeting packet)

- <u>C402.1.5- Envelope Backstop</u> New set of criteria. Not included in PSR Design. Computational software that allows us to understand how well the building is performing.
- <u>C402.3- Rooftop Solar Ready</u> Owned in PSR Design.
- <u>C402.5 Air Leakage Testing</u> New set of criteria. Not included PSR Design. Stretch code is now required. Rely on Mechanical ventilation and reduce the amount of leakage and thermal loss or infiltration into the building.
- <u>C402.7 Thermal Bridge Derating-</u> New criteria. Not included in PSR Design. Derating the performance of your wall system
- <u>C403 Building Mechanical System w/ Energy Recovery</u> PSR Design had efficiency criteria that were met or exceeded. The new code raises the bar.
- <u>C404- Service Water Heating</u> PSR Design had efficiency criteria that were met or exceeded. The new code raises the bar.
- <u>C406 Additional Efficiency Measures-</u> PSR Design had efficiency criteria that were met or exceeded. The new code raises the bar.
- <u>EV Parking</u> PSR Design had efficiency criteria that were met or exceeded. The new code requires 10% of your spaces EV Wiring. PSR was close to 10%. Marginal change.

Discussion:

<u>C. Magliozzi</u> asked if you had any idea what the increase in electrical costs would be.

<u>K. Seaman</u> replies with the favorable cost of natural gas and high increase rates of electricity, the electric approach does add more cost compared to the burning of natural gas. The trend is steering away from fossil fuels.

<u>C. Magliozzi</u> asked if there is any way to get some data on lifecycle costs relative to equipment replacement, so the committee can evaluate before deciding. How soon does this decision have to be made?

<u>K. Seaman</u> shares that the green engineer has completed energy models for this school. <u>S. Brennan</u> replies within two weeks, to a month.

<u>T. Elmore</u> recommends that LPA|A reach out to the Green Engineer, so they can demonstrate some operational cost modeling and some life cycle cost in the next meeting on October 3rd, 2023, so the committee can make an informed decision.



16.8	Construction Delivery Method Discussion and Vote:	Record
	T. Elmore briefly recaps the Facts, Advantages, and Disadvantages of each Construction Delivery Method, CM @ Risk (Chapter 149a) vs. Design Bid Build (Chapter 149)	
	Discussion:	
	<u>M. Ward</u> asks are construction Managers (CM) able to manage the process of subcontractor competitive bidding.	
	T. Elmore confirms and explains that as a town you have 18 trade categories from mechanical, and electrical, to plumbing and so on, that are directly bid by the town to the filed sub-bidders'. Once the proposals are received, the accepted low-qualified bidder is then assigned to the CM. The CM is the one who owns the subcontractor at the time that you assign it to them. They also buy approximately 25 other trades independently with input from the team. We are involved in the de-scoping and the understanding of what they're procuring from a scope standpoint. Typically, that's where the OPM and the architect will represent the town and really understand what we're buying.	
	M. Ward is the CM fully transparent?	
	<u>T. Elmore</u> replies that it's a fully open-book process. If we want to see something, we get to see it.	
	<u>M. Ward comments that we haven't done it before in this town but I'm willing to give it a try.</u> <u>C. Magliozzi</u> shares that he likes the transparency of CM@ Risk and if any problems arise, we can proactively resolve those problems. Whereas a Design Bid Built, we're forced to be combative, where we're forced to rely on the documents, and if we can't resolve the problem then it ends up in court. I come from a construction background, and we don't do Design Bid Built, built and the documents.	
	Built projects, we only do CM @ Risk projects. <u>B. Delorey</u> commented that he agreed that the CM at Risk method is the way to go. <u>M. Ward</u> asked if our current consultants, OPM and Designer have any experience with CM @ Risk.	
	<u>T. Elmore</u> states I have completed 8 public projects using CM @ Risk since 2004, I also have had numerous discussions with the IG's office regarding improving the process, so, I have extensive experience with CM@ @ risk and so does Eric Moore from LPA A, has numerous CM @ Risk projects. So, your team has the experience to do this.	
	<u>C. McGown</u> commented on past experiences with Design, Bid, and Build projects going to litigation and the Town not winning the legal cases, which M. Ward agreed with. The CM at Risk may proactively help the Town come to a more favorable conclusion at the end of the project.	
	A motion was made by S. Meyer and seconded by B. Delorey for CM @ Risk (Chapter 149a) as the Construction Delivery Method.	
	Roll Call Vote: C. Magliozzi (Y), B. Delorey (Y), M. Ward (Y), S. Meyer (Y), C. McGown (Y), Abstentions: None	
	Motion passes to use CM @ Risk, as the construction delivery method for this project.	
16.8.1	If CM at Risk is voted to proceed, the Designation of the Qualification, Proposal, and	Record
	interview voting members need to be established and approved.	

16.9



<u>T. Elmore</u> explains the next couple of steps, submitting the MA Inspector General application, Designation of Qualifications, Proposals, and Interview. The voting members need to be established and approved for this process.	
1. MA Inspector General Application to use CM @ Risk as the Construction Delivery Method	
 Complete Application > Submit Application > 60 Days IG Application Review > IG Approval to use CM @ Risk 	
 Develop, issue, and review CM Risk Qualifications to get shortlisted. Create a Request for Qualifications (RFS) > Approve and Issue RFQ > Receive CM Firm Qualifications > Review Qualifications and Select 3-4 firms to submit proposals. 	
 Develop, issue, and Review CM @ Risk Proposals/Interviews to select the CM Create a Request for Proposal (RFP) > Approve and Issue RFP > Receive CM Firm Proposals > Score Proposals > Interview Firms > Negotiate and Award CM 	
 CM Subcommittee Criteria At Least (2) members from SBC/PBC, (1) member from OPM, and (1) member from Architect. OPM Representative: Trip Elmore LPA A Representative: Eric Moore 	
<u>C. McGown</u> states that M. Moran is not present at this meeting, and we don't want to exclude him from tonight's decision for the CM subcommittee selection. We will be meeting in two weeks; we can vote then, on October 3 rd .	
Community Outreach Update	
 T. Elmore talks about public outreach. The project message needs to come from within the community. Keeping the public informed with accurate information Address Concerns and issues at local events 	
 There is one shot at getting this done, so the community needs to understand how important it is to vote. There is no "costs nothing" approach, it only costs most in the future. 	
 Spencer East Brookfield HS's original construction project budget was \$60 Million. The project failed to move forward. 10 years later. The same project is now 112 million. Passed the local vote. 	
The point is that it only costs more if this project does not pass the first time and the need does not go away.	
Discussion: None	



15.10	Other Topics not Reasonably Anticipated 48 hours prior to the Meeting: Discussion: None	Record
15.11	Public Comment: Discussion: None	Record
15.12	Next Meeting:10.03.2023 - CMS Building Committee Remote @ 6:30PM - Remote via ZOOM10.17.2023 - CMS Building Committee Remote @ 6:30 PM - Location: TBD11.14.2023 - CMS Building Committee Remote @6:30 PM - Location TBD12.19.2023 - CMS Building Committee Remote @6:30PM - Location: TBDDiscussion: None	Record
15.13	 Adjourn: 8:16 PM motion was made by <u>M. Ward</u> and seconded by S. Meyer to adjourn the meeting. Discussion: None; Roll Call Vote: C. Magliozzi (Y), M. Moran (Y), B. Delorey(Y) S. Meyer (Y), C. McGown (Y) Abstentions: None All in favor, the meeting is adjourned. 	Record

Sincerely, DORE + WHITTIER Elias Grijalva Assistant Project Manager Cc: Attendees, File The above is my summation of our meeting. Please contact me for incorporation into these minutes if you have any additions and/or corrections.

PERMANENT BUILDING COMMITTEE SCHOOL BUILDING SUB-COMMITTEE MEETING AGENDA



Meeting Date:	October 3, 2023 DORE + WHIT
Meeting Time:	6:30 PM
Project Name:	Clinton Middle School
Project Number:	202000640305
Meeting Purpose:	SBC Meeting No. 017
Meeting Location:	ZOOM
Meeting Link:	https://us06web.zoom.us/j/85012813874?pwd=JVGtcGjmHI1J2WKZcziLhom370xmV6.1
Meeting ID:	850 1281 3874
Passcode:	926603
One tab Mobile:	+16468769923,,85012813874#,*926603# US (New York)

- 1. Call to Order & number of voting members present:
- 2. Previous Topics and Approval of September 19, 2023, Meeting Minutes:
- 3. Invoices and Commitments for Approval:
 - 3.1. DWMP invoice #014, for the month of September, in the amount of \$15,000.00
 - 3.2. LPA|A Amendment No.005, in the amount of <u>\$14,190.00</u>
 - 3.3. Budget Revision Request No.002, Request for Approval
- 4. Mechanical Systems Discussion and Vote
- 5. Construction Management @ Risk Subcommittee Selection
- 6. OIG Application Submission Permission
- 7. Construction Management @ Risk RFQ Draft Discussion
- 8. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting.
- 9. Public Comment
- 10. Next Meetings
- 11. Adjourn:

PERMANENT BUILDING COMMITTEE SCHOOL BUILDING COMMITTEE SUB-COMMITTEE MEETING MINUTES



Project:	Clinton Middle School	Project No:	202000640305
Subject:	School Building Committee Meeting	Meeting Date:	10/03/2023
Location:	ZOOM	Time:	6:30 PM
Distribution:	Attendees, Project File	Prepared By:	E. Grijalva
MSBA Module:	4- Schematic Design		

Meeting Agenda

- 1. Call to Order & Number of Voting Members
- 2. Previous Topics and Approval of September 19, 2023, MM
- 3. Invoices and Commitments for Approval
- 4. Mechanical Systems Discussion and Vote
- 5. Construction Management @ Risk Subcommittee Selection
- 6. OIG Application Submission Permission
- 7. Construction Management @ Risk RFQ Draft Discussion
- 8. Other Topics not Reasonably Anticipated 48 hours prior to the meeting
- 9. Public Comment
- 10. Next Meeting
- 11. Adjourn

Name

Steven Meyer* Chris McGown *

Michael Moran* Brian Delorey* Brendan Bailey Brian Farragher Matthew Varakis Phil Duffy Trip Elmore Elias Grijalva Peter Caruso Sean Brennan Anthony Hardman Carrie Havey Kevin Seaman J Blume

Mark Abdella

Josiah Herbert

Jeff Cammuso

upprintendent D

Affiliation

Superintendent – PBC Member Chair of PBC- Head of DPW

PBC Member PBC Member School Committee Chair Director of Facilities School Committee Vice-Chair Director of Community & Econ. DWMP- Project Director DWMP – Assistant PM

LPA|A – Project Manager LPA|A – Project Architect an Green Engineer Green Engineer Seaman Engineer Public – Fontaine Bros Public – Fontaine Bros Public – Shawmut Design Public – Shawmut Design

*PBC Voting Members



Description	Action
Call to Order: 6:36 PM meeting was called to order by PBC Chair, C. McGown with 5 of 7 members in attendance.	Record
 Previous Topics & Approval of September 19, 2023, Meeting Minutes: A motion to approve the 09/19/2023 meeting minutes was submitted by S. Meyer_and seconded by B. Delorey. Discussion: None. Roll Call Vote: B. Delorey(Y) S. Meyer (Y), M. Moran (Y), C. McGown (Y) Abstentions: None All in favor, motion passes, September 19, 2023, meetings are certified as approved. 	Record
Invoices and Commitments for Approval	Record
 Invoice 1: DWMP Invoice #014, for the month of September, in the amount of \$15,000.00 A motion was made by S. Meyer and seconded by B. Delorey for the approval of the DWMP September invoice. Discussion: None. Roll Call Vote: B. Delorey(Y) S. Meyer (Y), M. Moran (Y), C. McGown (Y) Abstentions: None All in favor, motion passes to approve DWMP September invoice. LPAJA Amendment No.005 Request for Approval, in the amount of \$14,190.00. T. Elmore states this amendment is a result of additional services relative to proving the Traffic Analysis that the MSBA wants us to conduct. A motion was made by B. Delorey and seconded by S. Meyer for the approval of the LPA A Amendment No.005. Discussion: None. Roll Call Vote: B. Delorey(Y) S. Meyer (Y), M. Moran (Y), C. McGown (Y) Abstentions: None All in favor, motion passes to approve LPA A Amendment No.005. Budget Revision Request (BRR) No.002 Request for Approval in the amount of \$10,465.00 T. Elmore explains that this BRR form is to approve moving money within the budget to cover Designer's Amendment No.005. Moving \$10,465.00 from the other category to the Environmental and Site category. A motion was made by S. Meyer and seconded by M. Moran for the approval of the LPA A Amendment No.005. Discussion: None. Roll Call Vote: B. Delorey(Y) S. Meyer (Y), M. Moran (Y), C. McGown (Y) 	
Abstentions: None All in favor, motion passes to approve Budget Revision Request No.002.	
	Description Call to Order: 6:36 PM meeting was called to order by PBC Chair, C. McGown with 5 of 7 members in attendance. Previous Topics & Approval of September 19, 2023, Meeting Minutes: A motion to approve the 09/19/2023 meeting minutes was submitted by S. Meyer, and seconded by B. Delorey. Discussion: None. Roll Call Vote: B. Delorey(Y) S. Meyer (Y). M. Moran (Y), C. McGown (Y) Abstentions: None All in favor, motion passes, September 19, 2023, meetings are certified as approved. Invoices and Commitments for Approval Invoice 1: DWMP Invoice #014, for the month of September, in the amount of \$15,000.00 A motion was made by S. Meyer and seconded by B. Delorey for the approval of the DWMP September invoice. Discussion: None. Roll Call Vote: B. Delorey(Y) S. Meyer (Y), M. Moran (Y), C. McGown (Y) Abstentions: None All in favor, motion passes to approve DWMP September invoice. LPA[A Amendment No.005 Request for Approval, in the amount of \$14,190.00. T. Elmore states this amendment is a result of additional services relative to proving the Traffic Analysis that the MSBA wants us to conduct. A motion was made by B. Delorey and seconded by S. Meyer for the approval of the LPA[A Amendment No.005. Discussion: None. Roll Call Vote: B. Delorey(Y) S. Meyer (Y), M. Moran (Y), C. McGown (Y) Abstentions: None <t< td=""></t<>

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· · · · ·	nechanical systems Discussion and vote	Record
S A ru u li	. Brennan introduces the consulting engineers that are present in the meeting; Carrie Havey, anthony Hardman from the Green Engineer, and Kevin Seam from Seaman Engineering. He then ecaps what was discussed in the last meeting as well as provides an Order of Magnitude nderstanding of the cost to go from the New Stretch Code to the Updated Code. the anticipated fecycle, and the usable life of these new fixtures.	
	• MSBA revised its funding regarding green incentive points. The 2% that was previously qualified no longer exists. MSBA offered a compliance pathway towards getting an additional 4% points overall.	
	 New Stretch Mandatory Code: C402.1.5- Envelope Backstop, C402.3- Rooftop Solar Ready, C402.5 Air Leakage Testing, C402.7- Thermal Bridge Derating, C403 – Building Mechanical System w/ Energy Recovery, C404- Service Water Heating, C406 Additional Efficiency Measures, EV Parking 	
	• The New Stretch Code is an MSBA Requirement, whether the town has adopted it or not and we have to meet a Target Performance Pathway called TEDI. This is the biggest step to meet the New Stretch Code. It's a smaller step to get into the specialized Opt-in Code with all electrified systems.	
	• Dual Fuel Option requires putting PV on the roof and being electric ready, meaning running conduits and providing space for additional switch gears or panels that you might need to require in the future. You would also have to bring electrical service that would be large enough to surface those future devices.	
	 PSR Design MSBA Reimbursement: \$81.75M Included 2% Energy Efficiency Incentive Points 	
	 Stretch Mandatory Code MSBA Reimbursement: \$83.25M Includes 2% loss Energy Efficiency Incentive Points + Stretch Code improvements Insulation Increase (to meet TEDI) Triple Panel Window (to meet TEDI) 	
	 Opt-In Code (Stretch code plus the following) MSBA Reimbursement: \$80.25M Includes 4% Energy Efficiency Incentive Points + Stretch Code improvements Path 1 All Electric HVAC 	
	 Electric Domestic Hot Water Electric Cooking Equipment Hybrid fossil electric HVA Full electric infrastructure for future retrofit 	



S. Brennan demonstrates a real-life example of data that was collected on gas and electricity usage from The Town of Shrewsbury, who was nice enough to share all their usage, payment terms, and Kw over the past few years. We averaged the numbers out and looked at the consumption for the building heating and what that cost would be in Clinton Dollars. The biggest guestion is whether we are going all-electric or trying to keep fossil fuels in the building and what would impact operating costs.

- Example: Beal Elementary, Shrewsbury MA
 - 142,000 SQF Building
 - Hybrid Fuel Systems
 - Rooftop Package unit with Perimeter fin tube radiation system 0
 - Estimated Additional Operating cost for Clinton: \$28,000.00

Systems type	<u>Fuel</u>	Service Life
DHW Boilers	Gas	25+/- Years
DHW Boilers	Electric	15+\- Years
Heating Boilers	Gas	25 +\- Years
Air Source Heat	Electric	15+\- Years

T. Elmore asks how much PV cost for a building of this size.

A. Hardman replies that the rule of thumb is \$3 per watt.

C. McGown states we have a project about a mile away that requires solar panels. Is there a way to tie these two projects together where we could use solar to bring the power to this building?

S. Brennan states I've never dived that deep into it. What I can say is Beal Elementary School, did this very thing, put in a PV system in their landfill. They voted at the town level to allocate 100% of their coverage for their electrical use. So that building in essence is Net Zero electric based on their local community grid.

C. Havey comments you can do offsite PV if it's allocated to this project. I think the broader question is, does that work per the energy code?

A. Hardman states he believes off-site is permissible for code.

S. Brennan states the PSR estimate did not have PV panels in it. We'll be looking at an estimated \$1.5 million add for a 500 Kw PV system, cost could increase if canopies are added. The existing service to the school is a 2000-amp service.

M. Moran asked what the new service would be.

S. Brennan confirms the new service would be 4000-amp.

K. Seaman states in the PSR Design the VRF systems are in office admin and nursing areas, then for the rest of the building has a mix of air handlers fed by air-source heat pumps for large spaces and chilled water fed style displacement systems with hot water radiation for classrooms. Chilled and hot water would be fed by an air source heat pump chiller/heater. The chiller/heater would make warm enough water to utilize multi-tier fin-tube, coils, or radiant heat. The decision is whether you will with a gas boiler or an electric boiler for supplemental heat.

P. Duffy asks if you go all-electric are you limited to only heat pumps for heating? Can you use an electrical lead to generate a hydronic system?

S. Brennan replies that we could do Geothermal.

17.5



K. Seaman states as far as electric resistance heat, you're limited to how much of that you can use such as a cabinet heater, it would also be expensive.	
A. Hardman talks about the incentives between air sources and geothermal.	
 T. Elmore talks about Lexington Hasting School's Geothermal system. M. Moran asked what the cost was and what was the outcome as far as electric usage. T. Elmore states the Green Engineer did a study on the payback. Geothermal costs about 2.5 million for roughly a building of this size and there was never a payback. 	
S. Meyer comments that I think if we were building a system that was primarily future-proof, it would make sense to go full electrification.	
A motion was made by S. Meyer and seconded by M. Ward to pursue full electrification.	
 Discussion: M. Moran comments there are too many variables with electrification. 67% of electricity generated in Massachusetts is by gas. C. McGown comments it might be the case today, but I doubt it will be in 5-10 years. A. Hardman states if you go hybrid, we're still doing all the infrastructure for a fully electric building, so we are duplicating cost. 	
Roll Call Vote: B. Delorey(Y) S. Meyer (Y), M. Ward (Y), C. McGown (Y) Abstentions: M. Moran	
 All in favor, motion passes to proceed with full electric mechanical systems.	
Construction Management @ Risk Subcommittee Selection	Record
T. Elmore recaps the outcome of the last PBC Meeting. The Town voted to go CM @ Risk as the Construction Delivery Method for this project. One of the components of this process is selecting a CM @ Risk subcommittee.	
 CM @ Risk Subcommittee Owners Project Manager (OPM) Representative – Trip Elmore – Project Director Designer Presentative – Eric Moore – Senior Project Architect Town of Clinton S. Meyer M.Moran Discussion: None 	



17.6	OIG Application Submission Permission :	Record
	T. Elmore states that we would like Procurement to review the OIG Application if possible because we are submitting the application under the Town of Clinton.	
	A motion was made by S. Meyer and seconded by M. Moran to approve the OIG Application pending final review by M. Ward.	
	Discussion: None Roll Call Vote: B. Delorey(Y) S. Meyer (Y), M. Moran (Y), M. Ward (Y), C. McGown (Y) Abstentions: None All in favor, motion passes to approve the OIG Application pending final review.	
17.7	Construction Management @ Risk RFQ Draft Discussion	Record
	T. Elmore comments that we have drafted a standard Request for Qualification (RFQ) that was shared prior to this meeting. From a procurement standpoint, we would have to advertise this once we are authorized to put the RFQ on the street. We would like to release the RFQ by next Wednesday, October 11, 2023, so it would need to go into the Central Register by Thursday, October 5 th , and we would also need to put out a local ad as well as put an ad on COMMBUYS.	
	M. Ward comments to get an ad in the local paper for next week, we would have to submit an ad this Friday by Noon. I can do COMMBUYS once I have the general information.	
	 Prepare and Advertise the RFQ: October 05, 2023 RFQ Issue Date: October 11, 2023 RFQ Deadline: November 02, 2023 	
	A motion was made by B. Delorey and seconded by M. Moran to issue all the publications according to the schedule that was discussed.	
	 Discussion: M. Moran asked if this is enough time for CMs to submit their qualifications by November 2nd. T. Elmore confirms this is sufficient time. Roll Call Vote: B. Delorey(Y) S. Meyer (Y), M. Moran (Y), M. Ward (Y), C. McGown (Y) Abstentions: None All in favor, motion passes to approve issuing the publications. 	



17.8	Other Topics not Reasonably Anticipated 48 hours prior to the Meeting:	Record
	T. Elmore mentions that LPA A received preliminary survey information on the easement location from their surveyor. Within the next couple of days, we will receive the final survey that can be	
	forwarded to National Grid.	
	Discussion: None	
17.9	Public Comment:	Record
	Discussion: None	
17.10	Next Meeting:	Record
	10.17.2023 – CMS Building Committee Remote @ 6:30 PM – In-Person @ Clinton Middle School	
	11.14.2023 – CMS Building Committee Remote @6:30 PM – Location TBD	
	12.19.2023 – CMS Building Committee Remote @6:30PM – Location:TBD	
	Discussion: None	
17.11	Adjourn: 8:16 PM a motion was made by S. Meyer and seconded by M. Moran to adjourn the	Record
	meeting.	
	Discussion: None.	
	Roll Call Vote: B. Delorey(Y) S. Meyer (Y), M. Moran (Y), M. Ward (Y), C. McGown (Y)	
	Abstentions: None	
	All in lavor, the meeting is adjourned.	

Sincerely, DORE + WHITTIER Elias Grijalva Assistant Project Manager Cc: Attendees, File The above is my summation of our meeting. Please contact me for incorporation into these minutes if you have any additions and/or corrections.

PERMANENT BUILDING COMMITTEE SCHOOL BUILDING SUB-COMMITTEE MEETING AGENDA



Meeting Date: Meeting Time: Project Name: Project Number: Meeting Purpose: Location: Prepared By: October 17, 2023 6:30 PM Clinton Middle School 202000640305 SBC Meeting No. 018 Clinton Middle School - Library Elias Grijalva

- 1. Call to Order & number of voting members present
- 2. RFP for Architectural Services for Renovations to the Senior Center Carriage House
- 3. Senior Center Carriage Housing Invoice No.003 for Approval, in the amount of \$49,400.00
- 4. Previous Topics & Approval of October 03, 2023 Meeting Minutes
- 5. Invoices and Commitment for Approval:
 - > LPA|A September Invoice, in the amount of \$46,610.00
- 6. LPA | A Update Exterior Building Material Sample Review
- 7. Construction Management @ Risk Update
- 8. All Electric versus Hybrid Fuel Building Systems Discussion
- 9. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting
- 10. Public Comment
- 11. Next Meetings
- 12. Adjourn

PERMANENT BUILDING COMMITTEE SCHOOL BUILDING COMMITTEE SUB-COMMITTEE MEETING MINUTES



Project:	Clinton Middle School	Project No:	202000640305
Subject:	School Building Committee Meeting	Meeting Date:	10/17/2023
Location:	100 West Boylston St, Clinton MA 01510	Time:	6:30 PM
Distribution:	Attendees, Project File	Prepared By:	E. Grijalva
MSBA Module:	4- Schematic Design		

	Meeting Agenda	Name	Affiliation
1. 2. 3.	Call to Order & Number of Voting Members RFP for Architectural Services for Reno to the Sr. Cntr Carriage House Sr. Center Carriage Housing Invoice No.003 for Approval Provious Topics and Approval of October 03, 2023, MM	Steven Meyer* Chris McGown * Michael Moran* Brian Dolorov*	Superintendent – PBC Member Chair of PBC- Head of DPW PBC Member PBC Member
4. 5.	Invoices and Commitments for Approval	Chris Magliozzi*	Vice Chair of PBC
6. 7. 8. 9. 10. 11. 12.	LPA A Update – Exterior Building Material Sample Review Construction Management @ Risk Update All Electric versus Hybrid Fuel Building System Discussion Other Topics not Reasonably Anticipated 48 hours prior to the meeting Public Comment Next Meeting Adjourn	Michael Ward* Brendan Bailey Brian Farragher Shane McCarthy Bill McGrail Phil Duffy Trip Elmore Elias Grijalva Peter Caruso	Town Administration – PBC Member School Committee Chair Director of Facilities Teacher Finance Committee Co-Chair Director of Community & Econ. DWMP- Project Director DWMP – Assistant PM LPA A – Project Manager Shawmut
		*PBC Voting Memb	bers



ltem No	Description	Action
18.1	<u>Call to Order</u>: 6:32 PM meeting was called to order by PBC Chair, C. McGown with 6 of 7 members in attendance.	Record
18.2	RFP for Architectural Services for Renovations to the Senior Center Carriage House M. Ward explains we're looking to redesign the carriage house into a ADA compliant fitness center.	Record
	A motion to approve the RFP Architectural Services was submitted by S. Meyer _and seconded by M. Ward . Discussion: None; Vote: All in favor; Abstention: None All in favor motion passes to move forward with the REP for Architectural Services.	
18.3	 Senior Center Carriage Housing Invoice No.003 for Approval, in the amount of \$49,400.00 A motion to approve Fox Painting Invoice No.003 was submitted by M. Ward_and seconded by S. Meyer. Discussion: None; Vote: All in favor; Abstentions: None All in favor, motion passes, to pay Fox Painting Invoice No.003. 	Record
18.4	 Previous Topics & Approval of October 03, 2023, Meeting Minutes: A motion to approve the 10/03/2023 meeting minutes was submitted by S. Meyer and seconded by M. Ward. Discussion: None; Vote: S. Meyer(Y), M. Moran (Y), M. Ward (Y), B. Delorey(Y), C. McGown(Y); Abstentions: C. Magliozzi (Y) All in favor, motion passes, October 03, 2023, meetings are certified as approved. 	Record
18.5	 Invoices and Commitments for Approval Invoice 1: LPA A Invoice #009, for the month of September, in the amount of \$46,610.00 A motion was made by S. Meyer and seconded by M. Ward for the approval of the LPA A September invoice. Discussion: None; Vote: All in favor; Abstentions: None All in favor, motion passes to approve LPA A September invoice. 	Record
18.6	LPA A Update - Exterior Building Material Sample Review E. Moore updates the committee on where LPA A stands in the MSBA process, Module 4: Schematic Design and demonstrates some interior and exterior physical material samples. Front Entrance - canopy with skylight at the roof - Let's natural light come in Base Material - Calcium Silicate (Basis of Estimating in Schematic Design) Durable material, last a long time, good quality materials, Next layer is Brick Material Large format brick, faster installation, Durable Same installation methods, Durable Examples: South High Community School Exterior: 	Record
	Brick Masonry, Curtainwall, and composite metal panel at main entry	



 Fiber Cement panel, and mineral wool insulation exterior wall 	
 PVC Roofing and PV System 	
 Kalwall Skylight with aluminum frame 	
o Interior:	
 <u>Gym</u>: Harwood flooring system, Kalwall panels, gym equipment, telescopic 	
bleachers, CMU, and high impact GWB walls at Gym	
 <u>Corridor</u>: Hollow metal frames, corridor lockers, tile wall surface and 	
linoleum flooring	
 Band Room: Acoustical Wall panels, and ceiling tile 	
 <u>Cafeteria</u>: Linoleum flooring, LED Lighting, stainless steel column covers and 	
Kalwall	
 <u>Science Lab</u>: Mobile wood casework with epoxy counters, steel experiment 	
support frame and casters	
 <u>Common Room</u>: Carpet Tile, ACT, porcelain wall tile, and interactive project 	
 Typical Classroom: Linoleum flooring, GWB walls, built in casework, ACT and 	
indirect LED lighting, markerboard and interactive project	
Auburn Middle School- traditional	
o Exterior:	
 Precast Concrete, brick masonry, and insulated metal wall metals at main 	
entry	
 Precast pavers, tabled driveway, and bollards at outside dining 	
 Kalwall skylight at Lobby 	
o Interior:	
o <u>Gym:</u> Harwood flooring system, Kalwall panels, gym equipment, telescopic	
bleachers, CMU, and high impact GWB walls at Gym	
• <u>Lobby:</u> Terrazzo floor tile, entry mat carpet tile, plastic laminate wall panels, and	
Kalwall skylight	
C. Magliozzi asks what is the purpose of the different types of materials? Why wouldn't it be all	
one type of material?	
E. Moore replies with it's an aesthetic thing and masonry is heavy material, using the aluminum	
or fiber cement panels are much lighter and they don't require the same sort of structural	
support that masonry requires.	
C.McGown asks if the cost of brick is more expensive than the other materials?	
E. NOULE states blick is less expensive, we were judicious about where we placed the metal papels. There is a higher perceptage of brick versus the metal papels, but this being the	
antrance it's compating that creates compainterest and a good expertunity to use color	
Moran asks when do we value engineering?	
T Elmore replies we value engineer all the way through We value engineer at the end of	
Schematic Design again in Design Development at 60% Construction documents and 90%	
construction documents	
B McGrail asks how old is the oldest building that has the aluminum metal composite	
E. Moore states we've been using this material for 20 years	



	C.McGo brick or	wn states that our town is a m n this building.	ill town, all brick buildings and I would like to see more	
18.7	Constru	uction Management @ Risk U	<u>pdate</u>	Record
	T. Elmo project. the RFQ and we along th	re shares that we have ten Cor We'll be selecting the top 3-4 the decision is made final by th 'll be sharing the scoring sheet ne way.	nstruction Managers that have expressed interest in this qualified firms not just qualified firms. As mentioned in e committee. We will make results known after an award s and any other information that we might accumulate	
	CM Tra	cking Log		
	1.	Fontaine Bros	6. Barr & Barr	
	2.	Consigli	7. W.T Rich	
	3.	Bond Building	8. Shawmut Design	
	4.	Suffolk	9. Brait Builders	
	5.	Daniel O'Connell Building	10. Lee Kennedy	
18.8	S. Meye T. Elmo indeper firm to many. B. McG T. Elmo 495, pro project, M.Mora T. Elmo of the c Second	er asks when are proposals due ore states we are accepting pro- indently read and score the Stat invite them to submit a Reque- rail asks what makes this proje ore explains it's the right size pro- posimity to several sub-contractor and the site is basically flat. an asks who determines the fee- ore explains there are two thing cost of the work the company we also receive staff rates, so we tric versus Hybrid Fuel Buildi	² ? roposals on November 2 ^{nd.} The CM subcommittee will ement of Qualifications to decide who the best qualified est for Proposals (RFP). This is an attractive project for ct attractive. roject, the ability to bond the work, location from route rs in the area, it's a new construction versus a renovation e for the proposals. gs in the proposals that get to stick. One is a percentage will deem as a fee which can range from 2 to 3 percent. we understand the structure of different personnel rates.	Record
	M.Mora electric C.McGo versus l B. Delo must ru already E. Moo equipm	an states going all electric will co bill. own states we had the designer hybrid fuel systems and they can rey states regardless of if we go in all conduits, allocate the spac 90% there. re states that there has been tent after January 1,2024.	est more in the long run. You can be looking at a \$500,000 d's sub-consultant do a comparison cost analysis electric me back with a difference of \$35,000.00 not \$500,000.00. delectric or hybrid, we need to buy bigger switchgear, we e, and the generator must be sized for future load. We're a change on Mass save, they will no longer fund gas	



18.9	Other Topics not Reasonably Anticipated 48 hours prior to the Meeting:	Record
	Discussion: None	
18.10	Public Comment:	Record
	 M.Ward informs the committee that we submitted the initial survey to National Grid and their response was positive and they were satisfied with the information they received, so because of that they looking to circumvent their step-by-step process and just go to final approval to get the transaction. They will require a final plan to bring to the planning board. The planning board meetings are on the first Tuesday of every month. The next meeting is takin place on November 7th. T. Elmore states we can have the final plans within two weeks and requests that M. Ward add this to the next board meeting agenda. 	
18.11	Next Meeting:	Record
	11.14.2023 – CMS Building Committee Remote @6:30 PM – via Zoom	
	12.19.2023 – CMS Building Committee Remote @6:30PM – Location: TBD	
	Discussion: None	
18.12	Adjourn: 8:16 PM a motion was made by B. Delorey and seconded by C. Magliozzi to adjourn	Record
	the meeting.	
	Discussion: None; Vote: All in favor; Abstentions: None	
	All in favor, the meeting is adjourned.	

Sincerely,

DORE + WHITTIER

Elias Grijalva

Assistant Project Manager

Cc: Attendees, File

The above is my summation of our meeting. Please contact me for incorporation into these minutes if you have any additions and/or corrections.


Meeting Date:	November 14, 2023
Meeting Time:	6:30 PM
Project Name:	Clinton Middle School
Project Number:	202000640305
Meeting Purpose:	SBC Meeting No. 019
Location:	ZOOM
Meeting Link:	https://us06web.zoom.us/j/81892529824?pwd=yzY4Zrnfld5v1ub4o2lGWn5Bagt75P.1
Meeting ID:	818 9252 9824
Passcode:	163860
One Tab Mobile:	+13092053325,,81892529824#,,,,*163860# US
Prepared By:	Elias Grijalva

- 1. Call to Order & number of voting members present
- 2. Column Software PBC Invoice for Approval, in the amount of \$39.60
- 3. Previous Topics & Approval of October 17, 2023, Meeting Minutes
- 4. Invoices and Commitment for Approval
 - > DWMP Invoice No.015, for the month of October, in the amount of \$15,000.00
 - > LPA|A Invoice No.010, for the month of October, in the amount of \$64,485.00
- 5. LPA | A Update Discussion on Building Control Systems
- 6. Construction Management @ Risk Update
- 7. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting
- 8. Public Comment
- 9. Next Meetings
- 10. Adjourn



Project:	Clinton Middle School	Project No:	202000640305
Subject:	School Building Committee Meeting	Meeting Date:	11/14/2023
Location:	ZOOM	Time:	6:30 PM
Distribution:	Attendees, Project File	Prepared By:	E. Grijalva
MSBA Module:	4- Schematic Design		

Meeting Agenda

- 1. Call to Order & Number of Voting Members
- 2. Column Software PBC Invoice for Approval
- 3. Previous Topics and Approval of October 17, 2023, MM
- 4. Invoices and Commitments for Approval
- 5. LPA|A Update Discussion on Building Control Systems
- 6. Construction Management @ Risk Update
- 7. Other Topics not Reasonably Anticipated 48 hours prior to the meeting
- 8. Public Comment
- 9. Next Meeting
- 10. Adjourn

Name

Steven Meyer* Chris McGown * Michael Moran* Brian Delorey* Chris Magliozzi* Michael Ward* Matthew Varakis Brian Farragher Shane McCarthy **Becky Tollis** Pam Gaw Matt Wilder Jamie J. Jeremiah Driscoll Luke Hickey Trip Elmore Elias Grijalva Peter Caruso Kevin Seaman Azim Rawji Christine McCall David Fontaine Jr Beth Paulson Mark Abdella Jamie Blume Christian Riordan Josiah Herbert *PBC Voting Members

Affiliation

Superintendent – PBC Member Head of DPW - Chair of PBC **PBC Member PBC Member** Vice Chair of PBC Town Administration - PBC Member School Committee-Vice Chair **Director of Facilities** Teacher CMS Board Member School Committee Member Public Public Public Public DWMP- Project Director DWMP - Assistant PM LPA | A – Project Manager Seaman Engineering | Mechanical ART Engineering | Electrical **Consigli Construction** Fontaine Bros Fontaine Bros Fontaine Bros Fontaine Bros Suffolk Construction Shawmut Design & Construct.



ltem No	Description	Action
19.1	Call to Order: 6:33PM meeting was called to order by PBC Chair, C. McGown with 6 of 7	Record
	members in attendance.	
	*M. Ward joined the meeting late.	
19.2	Column Software PBC Invoice for Approval, in the amount of \$39.60	Record
	A mating to an any other Caluma Cafferran langing and as its days D . D . D . I .	
	A motion to approve the Column Software involce was submitted by B. Delorey and seconded by C. Magliozzi	
	Discussion: None: Roll Call Vote: B Delorev(Y) C Magliozzi (Y) S Mever(Y) M Moran (Y) C	
	McGown (Y): Abstentions: None	
	All in favor, motion passes, to pay Column Software Invoice.	
19.3	Previous Topics & Approval of October 17, 2023, Meeting Minutes:	Record
	A motion to approve the 10/1//2023 meeting minutes was submitted by S. Meyer and seconded by B. Delorey	
	Discussion : None: Roll Call Vote: B Delorev(Y) C Magliozzi (Y) S Mever(Y) M Moran (Y) C	
	McGown (Y); Abstentions: None	
	All in favor, motion passes, October 17, 2023, meetings are certified as approved.	
19.4	Invoices and Commitments for Approval:	Record
	Invoice 1, DWMAD Invoice #015, for the month of October in the amount of \$15,000,00	
	A motion was made by S Meyer and seconded by B Delorey for the approval of the DWMP	
	October invoice.	
	Discussion : None; Roll Call Vote: B. Delorey(Y), C. Magliozzi (Y), S. Meyer(Y), M. Moran (Y), C.	
	McGown (Y); Abstentions: None	
	All in favor mating another to constant DMMAD Optic has invalid	
	All in favor, motion passes to approve DWMP October Invoice.	
	Invoice 2: LPALA Invoice #010, for the month of October, in the amount of \$64,485,00	-
	A motion was made by B. Delorev and seconded by C. Magliozzi for the approval of the LPAIA	
	October invoice.	
	Discussion : None; Roll Call Vote: Vote: B. Delorey(Y), C. Magliozzi (Y), S. Meyer(Y), M. Moran	
	(Y), C. McGown (Y); Abstentions: None	
	All in favor, motion passes to approve LPALA October invoice	



19.5	LPA A Update – Discussion on Building Control Systems	Record
	P. Caruso introduces Kevin Seaman, mechanical engineer from Seaman Engineering who discusses the mechanical controls.	
	 Mechanical Controls: What makes a Building Automated System (BAS) truly open? Serviced by multiple contractors. Open protocol – multiple people can service it and get into the software. No licensing restriction Thin Client Access (web browser) – Access the system anywhere in the world. Replacement controllers available for purchase Affordable and accessible software tools Access to factory training 	
	 Truly Open Systems have all Three. Open Protocol Characteristics are published and may be used freely. Often misinterpreted as interchangeable with open systems Bacnet standard Open Procurement Anyone can purchase hardware. No restriction. Open Service Tools required to work on a system are available to anyone. Anyone can serve. Niagara Interoperability Conformance Statement (NICS) Written into the Specifications – forces away from proprietary system. 	
	 <u>Locked In Manufacturers:</u> Johnson Controls, Honeywell, Siemens, Trane, Alberton, automated logic 	
	Open Manufactures: • KMC Controls, VYkon, Distech Controls, Facility Explorer, Niagara 4, Honeywell Webs	
	 M.Moran asks who does the updates to the software when you have an open system. K. Seaman states we set up this system in a way where you can get a service contract and if that vendor doesn't work out, you can hire a different vendor. P. Caruso states that Kevin can also specify training programs in the specifications to suit the school's needs, for example a recording, for training purposes. C. Magliozzi asks what is the lifecycle of this technology? How fast will this technology go obsolete? K. Seaman replies with the sensors and thermostats are durable, the co2 sensor has a 10-year warranty. In 10-years the devices will start to wear out, and you'll need to replace them, but maybe by then there will new technology that works better. M.Moran asks who overs the commissioning agent? 	



T. Elmore replies that the MSBA covers the cost of the commissioning agent as part of their commitment to the projects, and they have a pool of around 10-20 commission agents.

Lighting Controls: Interior lighting shall be controlled with an automatic control device to shut off building lighting in all spaces and shall function on either:

- A scheduled bass using a time of day operated control device that turns lighting off at specific programmed times; or
- An occupant sensor that shall turn lighting off within 30 minutes of an occupant leaving a space.
- An unscheduled basis by occupant intervention
- Each space shall have at least one control device to independently control general lighting. Shall be activated manually or automatically by sensing an occupant.
- Each perimeter office shall have manual control to uniformly reduce the connected lighting load by 50% or shall be provided with automatic daylighting controls.
- Each perimeter classroom shall have a manual control to uniformly reduce the connected lighting load by 50% and shall be provided with automatic daylighting controls. Classrooms shall have the ability to dim or switch off lights at the presentation/teaching front wall. Lighting controls shall be integrated with the HVAC controls.
- Emergency LED egress and exit lighting shall be provided and will be fed from the emergency life safety branch of the emergency/standby system.

Lighting Controls LEED Requirements - Option 1

For all shared multioccupant spaces, meet all the following requirements.

- Have in place multizone control systems that enable occupants to adjust the lighting to meet group needs and preferences, with at least three lighting levels or scenes. (Off/On/Mid-level)
- Lighting for any presentation or projection wall must be separately controlled.
- Switches or manual controls must be located in the same space as the controlled luminaries. A person operating the controls must have a direct line of sight of the controlled luminaries.
- The lighting control will be integrated with the HVAC control. For example, if the sensors do not detect occupants in space within 30 minutes, then the lights shut off. This can be tied in with the HVAC system by also turning it down to a minimum or shutting off.
- **T. Elmore** asks if the lighting controls are locally controlled?
- **P. Caruso** replies, yes, it is a LEED requirement for all shared multizone spaces.
- T. Elmore asks, can you control the system with your phone?

A. Rawji replies, you can give individual people permission to control the system.

C. Magliozzi asks, can the same vendor monitoring the HVAC controls, can they help with the lighting controls?

A. Rawji replies, unfortunately, they are different vendors for each control system.



<u>Security</u>

- Video Surveillance:
 - Monitor all entry/exits, building perimeter, each stair landing, public spaces & corridors.
- Access Control:
 - Consisting of proximity card readers/key fobs at entry/egress doors.
 - An electric lock and an intercom at the front door with the ability to release the front door from the administration office will be provided.
- Intrusion Detection:
 - Monitor all exterior doors and ground floor windows.
 - Door positions switches will be provided on all exterior doors.
 - Motion detectors will be provided in all rooms with windows accessible from the ground.
 - Keypads to arm/disarm the system will be provided at the building entrance.

M.Moran asks, is there any detection of a door being open? **P. Caruso** replies, yes.

<u>Fire Alarm</u>: Provide an addressable fire alarm system with voice evacuation and connection to the fire department.

- Fire alarm system shall conform to applicable codes, supported by standby batteries to support 24 hours of full supervisory operation followed by 15 minutes of alarm.
- Provide combination audiovisual signaling appliances located in all egress pathways, classrooms, public and common areas. Visual devices will be included in all offices. All devices installed per applicable codes.
- Manual pulls stations installed at means of egress.
- Smoke detectors shall be in or at all egress pathways, stairwells, elevators, and mechanical, electrical, and similar rooms.
- Sprinkler tamper and flow devices shall be wired for trouble and alarm indication to FA control panel.
- Provide public safety radio distributed antenna system to boost emergency responder radio frequencies.

Public Address / Clock System

- Speakers will be located in classrooms, administration areas, assembly areas and in public and common areas. Classroom speakers will be talk-back type. Emergency call stations will be provided in each classroom, as well as in all instructional and public areas.
- The system will provide the front office with the ability to make announcements throughout the building premises, to a limited area, or to an individual room. Any telephone handset in the building will be capable of initiating a page. In the front office, the administration stall can select whether they want to initiate or respond to a call via the PA handset, make announcements or play background music through the speaker. The system will be capable of supporting multiple and simultaneous communications.



Discuss	ion:	· · · · ·			
<u>Constru</u>	iction Management (@ Risk Upd	<u>ate</u>		
T. Elmo towards	re shares the results f obtaining a CM for th	rom the Co is project.	nstruction Manager Qualifications and the next steps		
INTERES	TED CM APPLICANTS:	12; Submit	ted Qualifications: 10		
	CM Subcommittee	reviewed F	RFQ and provided comments/feedback.		
Novem	ber 14, 2023 - PBC me	eting and ra	anks Qualifications.		
Novem	ber 13, 2023 - Distribu ber 21, 2023 - CM Site	Walk-Throi	ugh		
Decem	per 05. 2023 – Receive	CM Pronos	November 21, 2023 - CM Site Walk-Through		
 December 05, 2023 – Receive CM Proposals CM selection subcommittee reviews and ranks CM proposals prior to interview. 			sals		
	• CM selection subc	ommittee r	sals eviews and ranks CM proposals prior to interview.		
Decemi	CM selection subc	ommittee ro w CM firms	sals eviews and ranks CM proposals prior to interview.		
Decemi Decemi	CM selection subc per 13, 2023 - Interview per 19,2023 - PBC Mee 2024 - Award SD estin	ommittee row CM firms eting - Recon	sals eviews and ranks CM proposals prior to interview. mmendation to Award CM Contract		
Decemi Decemi January	CM selection subc per 13, 2023 - Interview per 19,2023 - PBC Mee 2024 - Award SD estin	ommittee ro w CM firms eting - Recon mating Purc	sals eviews and ranks CM proposals prior to interview. mmendation to Award CM Contract chase Order		
Deceml Deceml January	CM selection subc per 13, 2023 - Interview per 19,2023 - PBC Mee 2024 - Award SD estin Results	ommittee row CM firms w CM firms eting - Recon mating Purc	sals eviews and ranks CM proposals prior to interview. mmendation to Award CM Contract chase Order		
Deceml Deceml January Place	CM selection subc per 13, 2023 - Interview per 19,2023 - PBC Mee 2024 - Award SD estin Results CM Applicant	ommittee row CM firms eting - Recon mating Purce	sals eviews and ranks CM proposals prior to interview. mmendation to Award CM Contract chase Order		
Decemb Decemb January Place 1st	CM selection subc per 13, 2023 - Interview per 19,2023 - PBC Mee 2024 - Award SD estin Results CM Applicant Fontaine Bros	ommittee row CM firms eting - Recondition Recondition Recondition Recondition Recondition Recondition Recondition Record	sals eviews and ranks CM proposals prior to interview. mmendation to Award CM Contract chase Order		
Decemb Decemb January Place 1st 2nd	CM selection subc oer 13, 2023 - Interview oer 19,2023 - PBC Mee 2024 - Award SD estin Results CM Applicant Fontaine Bros Consigli	ommittee row CM firms eting - Recommating Purce Score 99 90 90	sals eviews and ranks CM proposals prior to interview. mmendation to Award CM Contract chase Order Prequalified Firms to submit proposals: Fontaine		
Decemi Decemi January Place 1st 2nd 3rd	CM selection subcorrection sub	ommittee row CM firms eting - Recommating Purce of the second sec	sals eviews and ranks CM proposals prior to interview. mmendation to Award CM Contract chase Order Prequalified Firms to submit proposals: Fontaine Bros, Consigli, Shawmut & W.T Rich		
Decemi Decemi January Place 1st 2nd 3rd 4th	CM selection subc per 13, 2023 - Interview per 19,2023 - PBC Mee 2024 - Award SD estin Results CM Applicant Fontaine Bros Consigli Shawmut WT Rich	Score 99 90 85 85	sals eviews and ranks CM proposals prior to interview. mmendation to Award CM Contract chase Order Prequalified Firms to submit proposals: Fontaine Bros, Consigli, Shawmut & W.T Rich		
Decemi Decemi January Place 1st 2nd 3rd 4th -	CM selection subc Der 13, 2023 - Interview Der 19,2023 - PBC Mee 2024 - Award SD estin Results CM Applicant Fontaine Bros Consigli Shawmut WT Rich Turner Rond Building	Score 99 90 85 85 81 74	eviews and ranks CM proposals prior to interview. mmendation to Award CM Contract chase Order		
Decemi Decemi January Place 1st 2nd 3rd 4th -	CM selection subc per 13, 2023 - Interview per 19,2023 - PBC Mee 2024 - Award SD estin Results CM Applicant Fontaine Bros Consigli Shawmut WT Rich Turner Bond Building	Score 99 90 85 85 81 74	eviews and ranks CM proposals prior to interview. mmendation to Award CM Contract chase Order Prequalified Firms to submit proposals: Fontaine Bros, Consigli, Shawmut & W.T Rich Non-Prequalified Firms: Turner, Bond, Suffolk, DOC, Commodore, Lee Kennedy		
Decemi Decemi January Place 1st 2nd 3rd 4th - -	CM selection subc per 13, 2023 - Interview per 19,2023 - PBC Mee 2024 - Award SD estin Results CM Applicant Fontaine Bros Consigli Shawmut WT Rich Turner Bond Building Suffolk	Score 99 90 89 85 81 74 72	sals eviews and ranks CM proposals prior to interview. mmendation to Award CM Contract chase Order		
Decemi Decemi January Place 1st 2nd 3rd 4th - - - - -	CM selection subc per 13, 2023 - Interview per 19,2023 - PBC Mee 2024 - Award SD estin Results CM Applicant Fontaine Bros Consigli Shawmut WT Rich Turner Bond Building Suffolk DOC	Score 99 90 889 85 81 74 72 73	 sals eviews and ranks CM proposals prior to interview. mmendation to Award CM Contract chase Order Prequalified Firms to submit proposals: Fontaine Bros, Consigli, Shawmut & W.T Rich Non-Prequalified Firms: Turner, Bond, Suffolk, DOC, Commodore, Lee Kennedy 		
Decemi Decemi January Place 1st 2nd 3rd 4th - - - - - - -	CM selection subc per 13, 2023 - Interview per 19,2023 - PBC Mee 2024 - Award SD estin Results CM Applicant Fontaine Bros Consigli Shawmut WT Rich Turner Bond Building Suffolk DOC Commodore	Score 99 90 889 85 81 74 72 73 65	 sals eviews and ranks CM proposals prior to interview. mmendation to Award CM Contract chase Order Prequalified Firms to submit proposals: Fontaine Bros, Consigli, Shawmut & W.T Rich Non-Prequalified Firms: Turner, Bond, Suffolk, DOC, Commodore, Lee Kennedy 		



	CM RFP & Interview Selection Subcommittee	
	OPM Representative: Trip Elmore	
	Designer Representative: Eric Moore	
	District Member #1: Michael Moran	
	District Member #2: Steve Meyer	
	District Member #3: Chris Magliozzi	
	District Member #4: Brian Delorey	
	District Member #5: Michael Ward	
	District Member #6: Chris McGown	
	M.Moran asks, what happens if there is a tie?	
	T. Elmore replies, if you should have a tie, we'll have to vote again. We would have another	
	ballot, dissemble the votes and see if that breaks the tie. I guarantee it's going to be a very	
	difficult decision. All firms that made the shortlist are well qualified.	
	December 13, 2023 - Interview CM firms	
	Interview Hours: 12PM-4PM	
	Interviews will be held at Clinton Town Hall	
	• CM's will have 45minutes to an hour to do their presentation and answer questions.	
	Discussion: None	
19.7	Other Topics not Reasonably Anticipated 48 hours prior to the Meeting:	Record
	Discussion: None	
19.8	Public Comment:	Record
	Discussion: None	
19.9	Next Meeting:	Record
	12.13.2023 – CMS Construction Managers Interview @ Clinton Town Hall from 12PM-4PM	
	12.19.2023 – CMS Building Committee Remote @6:30PM – Location: Remote via Zoom	
	Discussion: None	
19.10	Adjourn: 8:00PM a motion was made by S. Meyer and seconded by M.Moran to adjourn the	Record
	meeting.	
	Roll Call Vote: B. Delorey(Y), C. Magliozzi (Y), S. Meyer(Y), M. Moran (Y), C. McGown (Y);	
	Abstentions: None	
	All in favor, the meeting is adjourned.	

Sincerely, DORE + WHITTIER

Elias Grijalva Assistant Project Manager

Cc: Attendees, File

The above is my summation of our meeting. Please contact me for incorporation into these minutes if you have any additions and/or corrections.



Meeting Date:	December 19, 2023
Meeting Time:	6:30 PM
Project Name:	Clinton Middle School
Project Number:	202000640305
Meeting Purpose:	SBC Meeting No. 020
Location:	ZOOM
Meeting Link:	https://us06web.zoom.us/j/82360491295?pwd=TfGM4m6riBElsq2qL5qzbsjZTopfbD.1
Meeting ID:	823 6049 1295
Passcode:	443381
One Tab Mobile:	+16469313860,,82360491295#,,,,*443381# US
Prepared By:	Elias Grijalva

- 1. Call to Order & number of voting members present
- 2. Senior Center Carriage House Design Services
- 3. Previous Topics & Approval of November 14, 2023, Meeting Minutes (Vote expected)
- 4. Invoices and Commitment for Approval (Vote expected)
 - > DWMP November Invoice No.016, in the amount of \$15,000.00
 - > LPA|A November Invoice No. 011, in the amount of \$57,040.00
 - > LPA|A Amendment No.006 request for approval, in the amount of \$4,950.00
- 5. Construction Management @ Risk Update
- 6. LPA|A Update FF & E, Building Design and Proprietary Technology
- 7. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting
- 8. Public Comment
- 9. Next Meetings
- 10. Adjourn



Project:	Clinton Middle School	Project No:	202000640305
Subject:	School Building Committee Meeting	Meeting Date:	12/19/2023
Location:	ZOOM	Time:	6:30 PM
Distribution:	Attendees, Project File	Prepared By:	E. Grijalva
MSBA Module:	4- Schematic Design		

Meeting Agenda

- 1. Call to Order & Number of Voting Members
- 2. Senior Center Carriage House Design Services
- 3. Previous Topics and Approval of December 19, 2023, MM
- 4. Invoices and Commitments for Approval
- 5. LPA | A Update FF & E, Building Design and Proprietary
- 6. Construction Management @ Risk Update
- 7. Other Topics not Reasonably Anticipated 48 hours prior to the meeting
- 8. Public Comment
- 9. Next Meeting
- 10. Adjourn

Name

Affiliation

Steven Meyer* Superintendent – PBC Member Chris McGown * Head of DPW - Chair of PBC Michael Moran* **PBC Member** Chris Magliozzi* Vice Chair of PBC Michael Ward* Town Administration - PBC Member Matthew Varakis School Committee-Vice Chair Phil Duffy Director of Community & Eco Dev. Trip Elmore **DWMP-**Project Director Elias Grijalva DWMP - Assistant PM Eric Moore LPA | A - Principal in Charge Peter Caruso LPA|A - Project Manager Sean Brennan LPA | A - Project Architect David Fontaine Jr **Fontaine Bros Beth Paulson Fontaine Bros** Mark Abdella Fontaine Bros Jamie Blume **Fontaine Bros Chelsey Mutrie** Fontaine Bros **Brian Davies Fontaine Bros** MJ Lafond Sr. Supt. Brendan unknown *PBC Voting Members



ltem No	Description	Action
20.1	Call to Order: 6:32PM meeting was called to order by PBC Chair, C. McGown with 5 of 7	Record
	members in attendance.	
20.2	Senior Center Carriage House Design Services	Record
	M.Ward provides update on the Senior Center Carriage Housing project.	
	Purpose: Turn the Senior Carriage House into a fitness center	
	Received numerous inquiries, but only received (1) qualification submission from SSB Architects	
	• Received a late submission, waiting on Attorney General's Office to determine how to handle the late proposal.	
	• SSB Architects specialized in historic renovation, with relevant projects in their portfolio.	
	Next Steps:	
	• Waiting on a response from Attorney General office on the late proposal	
	• Forming a subcommittee to interview SSB Architects or deciding on re-bidding.	
	RFQ Subcommittee: Chris McGown, Chris Magliozzi, Michael Ward	
	Discussion:	
	C. McGown comments that we should wait to hear back from the Attorney General and	
	interview both companies.	
20.3	Previous Topics & Approval of December November 14,2023, Meeting Minutes:	Record
	A motion to approve the 11/14/2023 meeting minutes was submitted by M. Ward and seconded by C. Magliozzi.	
	Discussion : None; Roll Call Vote: C. Magliozzi (Y), S. Meyer(Y), M. Moran (Y), M. Ward (Y), C. McGown (Y); Abstentions: None	
	All in favor, motion passes, November 14, 2023, meetings are certified as approved.	
20.4	Invoices and Commitments for Approval:	Record
	Invoice 1: DWMP Invoice #016, for the month of November, in the amount of \$15,000.00	
	A motion was made by C. Magliozzi and seconded by M. Moran for the approval of the DWMP November invoice.	
	Discussion : None; Roll Call Vote: C. Magliozzi (Y), S. Meyer(Y), M. Moran (Y), M. Ward (Y), C. McGown (Y); Abstentions: None	
	All in favor, motion passes to approve DWMP November invoice.	



Discussion: None; Roll Call Vote: C. Magliozzi (Y), S. Meyer(Y), M. Moran (Y), M. Ward (Y), C. McGown (Y); Abstentions: None All in favor, motion passes to approve LPA A November invoice. LPA A Amendment No.006 for approval, in the amount of \$4,950.00 S. Brennan explains due to recent changes to the building code and the adoption of rules for additional incentive points, we are proposing a change order to engage Passivhaus consultant for an early study to validate potential cost savings with the Passivhaus approach. A motion was made by M. Moran and seconded by S. Meyer for the approval of the LPA A Amendment No.006 request. Discussion: None; Roll Call Vote: C. Magliozzi (Y), S. Meyer(Y), M. Moran (Y), M. Ward (Y), C. McGown (Y); Abstentions: None All in favor, motion passes to approve LPA A November invoice. 20.5 Construction Management @ Risk Update T. Elmore comments that (3) outstanding proposals were received from highly qualified construction companies. Results (Refer to Meeting Packet to view the scorecard) 1 1 ^{st:} Fontaine Bros 2 ^{std*} Consigli Construction 3 ^{std*} Consigli Construction 3 ^{std*} Consigli Construction	Invoice 2: LPA A Invoice #011, for the month of November, in the amount of \$57,040.00 A motion was made by S. Meyer and seconded by M. Moran for the approval of the LPA November invoice.	A
All in favor, motion passes to approve LPA A November invoice. LPA A Amendment No.006 for approval, in the amount of \$4,950.00 S. Brennan explains due to recent changes to the building code and the adoption of rules for additional incentive points, we are proposing a change order to engage Passivhaus consultant for an early study to validate potential cost savings with the Passivhaus approach. A motion was made by M. Moran and seconded by S. Meyer for the approval of the LPA A Amendment No.006 request. Discussion: None; Roll Call Vote: C. Magliozzi (Y), S. Meyer(Y), M. Moran (Y), M. Ward (Y), C. McGown (Y); Abstentions: None All in favor, motion passes to approve LPA A November invoice. 20.5 Construction Management @ Risk Update T. Elmore comments that (3) outstanding proposals were received from highly qualified construction companies. Results (Refer to Meeting Packet to view the scorecard) 1 ^{14:} Fontaine Bros 2 ^{ndd} : Shawmut Design and Construction 3 ^{ndd} : Consigli Construction A motion was made by M. Moran and seconded by C. Magliozzi to approve Fontaine Bros as the recommended CM for the Clinton Middle School project.	Discussion : None; Roll Call Vote : C. Magliozzi (Y), S. Meyer(Y), M. Moran (Y), M. Ward (Y), McGown (Y); Abstentions: None	C.
LPA A Amendment No.006 for approval, in the amount of \$4,950.00 S. Brennan explains due to recent changes to the building code and the adoption of rules for additional incentive points, we are proposing a change order to engage Passivhaus consultant for an early study to validate potential cost savings with the Passivhaus approach. A motion was made by M. Moran and seconded by S. Meyer for the approval of the LPA A Amendment No.006 request. Discussion: None; Roll Call Vote: C. Magliozzi (Y), S. Meyer(Y), M. Moran (Y), M. Ward (Y), C. McGown (Y); Abstentions: None All in favor, motion passes to approve LPA A November invoice. 20.5 Construction Management @ Risk Update T. Elmore comments that (3) outstanding proposals were received from highly qualified construction companies. Results (Refer to Meeting Packet to view the scorecard) 3rd: Consigli Construction 3rd: Consigli Construction A motion was made by M. Moran and seconded by C. Magliozzi to approve Fontaine Bros as the recommended CM for the Clinton Middle School project.	All in favor, motion passes to approve LPA A November invoice.	
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 Construction Management @ Risk Opdate T. Elmore comments that (3) outstanding proposals were received from highly qualified construction companies. Results (Refer to Meeting Packet to view the scorecard) 1st: Fontaine Bros 2nd: Shawmut Design and Construction 3rd: Consigli Construction A motion was made by M. Moran and seconded by C. Magliozzi to approve Fontaine Bros as the recommended CM for the Clinton Middle School project. 	All In favor, motion passes to approve LPA A November invoice.	Deserved
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	A motion was made by M. Moran and seconded by C. Magliozzi to approve Fontaine Bros the recommended CM for the Clinton Middle School project.	as
Discussion: None	Discussion: None	

20.6



LPA A Update	R
P. Caruso shares room data sheets on major spaces in the building, indicating what furniture.	
fixtures and equipment are in those specific rooms.	
Furniture, fixtures, and equipment	
Typical Classrooms	
Typical Science Lab	
• Cafetoria	
Media Center	
 Destiny System will be maintained. 	
*Refer to Meeting packet for a list of furniture, equipment/technology in each space.	
*Red font indicates items that need to be confirmed by LPA A subconsultants	
M.Moran asks if there will be any gas in the science labs?	
P. Caruso replies, there will not be any gas in the science labs.	
Proprietary Technology Items	
Network Switches – Extreme networks	
Wireless Access Devices – Cisco Meraki	
Telephone System- Mitel	
Integrated Security System- Verkada	
<u>Geothermal System & Photovoltaic System</u>	
• None of these systems are currently captured in the last cost estimate, once the CM is	
on board, we can have a more meaningful conversation with them relative to budget	
and logistics to determine if either are a right fit for the project.	
• Potential for incentives, especially federal incentives with the inflation reduction act.	
• Intention is to include these systems in the schematic design estimates for the project	
scope and budget agreement with the MSBA.	
M.Moran asks, do you know what the operating cost savings are for Geothermal.	
E. Moore replies we'll have to get cost information and present this data at a different PBC	
meeting.	
M. Ward comments this is something worth looking at, but what does it entail in terms of	
looking at it.	
T. Elmore states the Green Engineer has done the geothermal analysis and they are already	
part of LPA A team, I suggest inviting Chris Schaffner from the Green Engineer to join our next	
PBC meeting for an education session.	
Security System	
• (3) Types of Security Systems that included in the design and cost estimate	
 Video Surveillance, Intrusion Detection and Access Control 	
S. Brennan demonstrates the updated building design.	
Redesign exterior building envelope with improved aesthetics per the feedback	
received.	
• Will be carrying (1) operable window in the classrooms, opening about 4-5 inches.	
PV Ready	



	Car Charging Stations = 10% of parking spot	
	*Refer to meeting packet for building design visuals	
	 Discussion: M. McGown comments that he likes this rendition more than the first one. It's more in line with what we were looking for. P. Duffy comments that he's very happy with the massing and the materials. Some of the details can be refined as we move forward. C. Magliozzi comments it's a big improvement from the first version, I'm interested in exploring options for more development of the roof edge at the top, and in understanding the placement and design of skylights on the large side of the building. 	
	S Brennan replies potentially, if not will be ready for the next PBC meeting	
20.7	Other Topics not Reasonably Anticipated 48 hours prior to the Meeting:	Record
20.8	 E. Moore announces that Katie Crockett will no longer be the principal in charge as she is retiring at the end of the year. The MSBA requires notifications for any changes in leadership or major staffing projects. I will be the new Principle in Charge for this project. Discussion: None Public Comment: 	Record
	Discussion: None	
20.9	Next Meeting:01.09.2023 - CMS Building Committee Remote Meeting No.021 @6:30PM - Location: Zoom02.06.2024 - CMS Building Committee Remote Meeting No.022 @6:30PM - Location: Zoom02.13.2024 - All Boards Meeting - In-Person; Location: TBD02.20.2024 - CMS Building Committee Remote Meeting No.023 @6:30PM - Location: In-PersonDiscussion: None	Record
20. 10	Adjourn: 7:58PM a motion was made by C. Magliozzi and seconded by M. Ward to adjourn the	Record
	 Roll Call Vote: C. Magliozzi (Y), S. Meyer(Y), M. Moran (Y), M. Ward (Y), C. McGown (Y); Abstentions: None All in favor, the meeting is adjourned. 	

Sincerely, DORE + WHITTIER

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Elias Grijalva

Assistant Project Manager

Cc: Attendees, File

The above is my summation of our meeting. Please contact me for incorporation into these minutes if you have any additions and/or corrections.



Meeting Date:	January 9, 2024
Meeting Time:	6:30 PM
Project Name:	Clinton Middle School
Project Number:	202000640305
Meeting Purpose:	SBC Meeting No. 021
Location:	ZOOM
Meeting Link:	https://us06web.zoom.us/j/89223864901?pwd=5P1uirz57xY6iJhskJy0apscOZ5LLG.1
Meeting ID:	892 2386 4901
Passcode:	887252
One Tab Mobile:	+16469313860,,89223864901#,,,,*887252# US
Prepared By:	Elias Grijalva

- 1. Call to Order & number of voting members present.
- 2. Previous Topics & Approval of December 19, 2023, Meeting Minutes (Vote expected)
- 3. Invoices and Commitment for Approval (Vote expected)
 - > DWMP December Invoice No.017, in the amount of \$25,000.00
 - > LPA | A December Invoice No. 012, in the amount of \$53,323.00
- 4. CM Introductions
- 5. LPA|A Update Typical Classrooms and Updated SD
- 6. TEDI Vs. PHIUS
- 7. Property DEED and registry filing update
- 8. Project funding discussion
- 9. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting
- 10. Public Comment
- 11. Next Meetings
- 12. Adjourn



Project:	Clinton Middle School	Project No:	202000640305
Subject:	School Building Committee Meeting	Meeting Date:	01/09/2024
Location:	ZOOM	Time:	6:30 PM
Distribution:	Attendees, Project File	Prepared By:	E. Grijalva
MSBA Module:	4- Schematic Design		

Meeting Agenda

- 1. Call to Order & Number of Voting Members
- 2. Previous Topics and Approval of December 19,2023 MM
- 3. Invoices and Commitments for Approval
- 4. CM Introductions
- 5. LPA | A Update Typical Classrooms and Updated SD
- 6. TEDI Vs. PHIUS
- 7. Property DEED and registry filing Update
- 8. Project funding discussion
- 9. Other Topics not Reasonably Anticipated 48 hours prior to the meeting
- 10. Public Comment
- 11. Next Meeting
- 12. Adjourn

Name

Affiliation

Steven Meyer* Superintendent – PBC Member Head of DPW - Chair of PBC Chris McGown * Michael Moran* **PBC Member** Chris Magliozzi* Vice Chair of PBC Michael Ward* Town Administration – PBC Member Matthew Varakis School Committee- Vice Chair Brian Delorey* PBC Member Phil Duffy Director of Community & Eco Dev. Brian Farragher **Director of Facilities** Shane Mcarthy Teacher **DWMP-** Project Director **Trip Elmore Bill Connolly** Observer Elias Grijalva DWMP - Assistant PM LPA | A – Principal in Charge Eric Moore Peter Caruso LPA|A - Project Manager LPA | A - Project Architect Sean Brennan David Fontaine Jr Fontaine Bros – CEO Beth Paulson Fontaine Bros – Project Manager Fontaine Bros -VP of Precon Srv Chelsey Mutrie *PBC Voting Members



ltem No	Description	Action
21.1	Call to Order: 6:33 PM meeting was called to order by PBC Chair, C. McGown with 6 of 7	Record
	members in attendance.	
21.2	Previous Topics & Approval of December 19, 2024, Meeting Minutes:	Record
	A motion to approve the 12/19/2023 meeting minutes was submitted by S. Meyer and seconded	
	by M. Moran .	
	Discussion: None; Roll Call Vote: B. Delorey(Y), C. Magliozzi (Y), S. Meyer(Y), M. Moran (Y), M.	
	Ward (Y), C. McGown (Y); Abstentions: None; All in favor, motion passes.	
21.3	Invoices and Commitments for Approval:	Record
	Invoice 1: DWMP Invoice $\#017$ for the month of December in the amount of \$25,000,00	Record
	A motion was made by M. Ward and seconded by B. Delorey for the approval of the DWMP	
	December invoice.	
	Discussion: None; Roll Call Vote: B. Delorey(Y), C. Magliozzi (Y), S. Meyer(Y), M. Moran (Y), M.	
	Ward (Y), C. McGown (Y); Abstentions: None; All in favor, motion passes.	
	Invoice 2: LPA A Invoice #012, for the month of November, in the amount of \$53,323.00	
	A motion was made by M. Ward and seconded by M. Moran for the approval of the LPA A	
	December Involce.	
	Ward (Y) C. McCown (Y): Abstentions: None: All in favor motion passes	
	Ward (1), C. McGowit (1), Abstentions. None, Altin lavor, motion passes.	
21.4	Construction Introductions	Record
	The Fontaine team provides concise introductions and presents an overview of the timeline and	
	logistical plans for the site.	
	Pre-Construction Services	
	1. Estimating: Chad Bergeron	
	2. BIM + VDC: Ben Hedges	
	3. Safety: Mark Bisson	
	4. Sustainability: Tracy Routhier	
	5. MEP: Brian Davies	
	6. Scheduling: Christa Spedding	
	Preconstruction Timeline:	
	• Schematic Design: Aug 2023 – Feb 2024	
	• Vote Support: Mar – June 2024	
	Design Development: June – Oct 2024	
	• 60% CD: Nov – Feb 2025	



5		
	 Pre GMP #1 approval 	
	• 90% CD: Feb -April 2025	
	 Pre GMP#2 approval 	
	• 100% CD: April – June 2025	
	GMP Development: Jul – Aug 2025	
	 Final GMP approval 	
	Site Logistics Plan	
	Overview of the phased approach to construction and development, ensuring minimal disruption	
	to daily operations.	
	Summer 2025	
	 Establish perimeter and construction entrance. 	
	 Fix traffic flow and student crosswalk 	
	• Redirect students off site to pick up and maintain car access around the read of the	
	school.	
	Construction 2025 – Spring 2026	
	 On going construction activities 	
	• Summer 2026	
	 Connect utilities on the west side while maintaining structure boundaries. 	
	Fall 2026	
	 Resume original traffic patterns as construction continued within the perimeter. 	
	Summer 2027 Demolition of the existing building begins	
	 Demonutor of the existing building begins. First day of school in 2027 with ostablished parking and bus loop. 	
	• Fall 2027	
	 Complete turnover of the parking lot 	
	\circ Focus on completing the	
	Discussion:	
	C. McGown asks what's the difference between Guaranteed Maximum Price (GMP) 1 and (GMP)	
	2.	
	T. Elmore highlights the importance of timing in deciding when to implement the GMP, either	
	early in the project or after obtaining market input and bids. Utilizing the GMP process with	
	Construction Manager (CM) at risk allows for flexibility in adjusting the project scope until all	
	subcontractors are awarded. This flexibility helps in making informed decisions for the benefit of	
	the community and avoiding unnecessary cash reserves. The value of awarding the GMP in	
	chunks, such as sitework, foundations, structural steel, and MEPs, to better manage costs and	
	keep important aspects of the building intact.	
	M. Moran asks at what point do we value engineering (VE) ?	
	T. Elmore replies every step of the way, subsequent VE reviews will be conducted three more	
	times at 60%, 90% and 100% Construction Document (CD).	
	LPA A Update: Typical Classrooms and Updated SD	Record
	Schematic Design Schedule	
	 <u>01.24.2024</u>: SD Drawings and specifications to cost estimators. 	
	• <u>02.01.2024</u> : Cost Estimates are due.	
	<u>02.02.2024:</u> Cost Estimate Reconciliation	

• <u>02.06.2024</u>: SBC/PBC Presentation (Cost estimate)

21.5



- <u>02.09.2024</u>: Submit presentation and estimate to the town.
- 02.13.2024: All Boards Meeting
- 02.20.2024: PBC Vote to submit schematic design MSBA.
- <u>02.23.2024:</u> Submit DESE and SD packet.

P. Caruso demonstrates what a typical classroom and science lab will look like.

Typical Classroom Main Points:

- There are (6) dedicated classrooms for each grade, totaling 30 classrooms, not including special education, wellness, executive functioning, etc.
- Each classroom is about 900 square feet, designed for 20 to 25 students, with specific features on the teaching wall, including three magnetic marker boards and an interactive short throw projector.
- Technological flexibility is provided on the back wall with data and electrical outlets, along with a mix of monitors and tack boards.
- -Finishes for general classrooms include linoleum flooring, painted chip gypsum board walls, plastic laminate countertops, and pendant LED light fixtures.
- Grades four through six will have two sinks, one accessible and one with a deep bowl, while grades seven through eight won't have any sinks, following MSBA requirements.
- Cabinets along the corridor wall include a teacher wardrobe cabinet, a phone, and a digital display for clock and door messages.
- Detailed specifications are provided for emergency features and other aspects of the classroom design.
- The speech reinforcement device (SR) is in the ceiling.
- Displacement diffusers in opposite corners of classrooms allow for fresh air circulation in the students' breathing zone.
- Windows along the exterior wall are aesthetically designed to work with exterior fenestration, with plans for one operable window per classroom.
- Each classroom has a communicating door to adjacent classrooms, equipped with security lock sets for both sides, ensuring passage mode for egress even when locked.
- Emergency responders reviewed and approved the door security features.
- Elevations of classroom spaces reveal details like windows, base cabinets with open and lockable shelving, displacement diffusers, teaching wall elements, and sinks for specific grades.
- The presentation provides a comprehensive view of the design and features of the classroom spaces.

Typical Science Lab

- There will be three labs, each around 1440 square feet, located in the seventh and eighth-grade academic wing.
- MSBA guidelines dictate their design, accommodating up to 24 students for safety.
- Science labs share similarities with general classrooms in terms of technology, featuring magnetic whiteboards, interactive short throw projectors on the teaching wall, and a dedicated teacher demonstration table with accessories.
- Each science lab includes a 300 square foot prep room, and the teacher's own dedicated lab sink.



	 Finishes include linoleum flooring, painted gypsum board walls, epoxy countertops to resist chemical damage, wood-finish cabinets, and a ceiling with two-foot by two-foot acoustical tiles and pendant LED light fixtures. Instead of individual desks and chairs, mobile student tables for two students each are provided, along with stools featuring a backstop. The design emphasizes functionality, safety, and durability in the science lab spaces. Science labs designed without fume hoods or gas for teachers; shared lab sinks and electrical outlets for students. Adherence to MSBA safety guidelines with emergency eyewash, shower, fire extinguisher, fire blanket cabinet, goggle cabinet with UV disinfectant, and safety data sheets station. Accessible and general handwashing stations provided, along with a steel frame for hanging objects in experiments. Prep rooms equipped with the same finishes as the main lab, including a refrigerator, high-end dishwasher, chemical storage cabinet, and sink. Communicating doors between science labs, a dedicated chemical storage room across the hall, and interior elevations showcasing casework, cabinets, and teacher demonstration areas. M. Moran asked if there is a neutralization system? P. Caruso replies yes there will be. As of right now, the collection system is outside. S. Brennan shares the exterior design. A detailed look at the roof edge has been developed, emphasizing refinement as the project progresses. Notable revisions include overhangs for the cafeteria and kitchen windows, large southfacing windows with shading structures, and GFRC clad panels for stair towers. Canopies, skylight shed roofs, and outdoor engagement spaces, including a courtyard with play areas and raised garden beds, are highlighted. Emphasis on the main entry canopy providing cover, large fenestrations for admin and guidance, and a courtyard between two wings. Mentio	
21.6	TEDI Vs. PHIUS (Refer to meeting packet for visuals on TEDI vs. PHIUS)	Record
	 S. Brennan explains the differences between Thermal Emissivity Density Index (TEDI) and Passive House Institute in the United States (PHIUS). TEDI feasibility study initially met code requirements, but based on preliminary observations, a feasibility study for PHIUS was requested to explore potential cost savings and efficiency. Detailed comparison between TEDI and PHIUS, considering factors such as windows, window-wall ratio, doors, insulation values, air infiltration rates, modeling requirements, certifications, blower door tests, and additional costs associated with modifications to meet PHIUS standards. 	



	 Notable differences include the need for Passivhaus certified windows, different door and window systems, variations in insulation values, multiple modelers, and certifications for PHIUS, higher blower door testing requirements, and the installation of a 250 KW PV array for PHIUS. Concerns about the potential increased costs associated with deviations from the base model and a comparison of certification fees for LEED and Mass Save under both pathways. The presentation includes charts illustrating the costs associated with certifications and fees for each pathway, emphasizing the potential financial implications of choosing between TEDI and PHIUS compliance. 	
21.7		D
21.7	Property DEED and registry filing Update	Record
	T. Elmore emphasizes the approaching deadline for the property and registry filing. Urgently, need evidence of property ownership within a month to avoid delay in the project schedule. Discussion: None	
21.8	Project Funding Discussion	Record
	S. Meyer comments on the PTA meeting that he attended and shares concerns that were raised during the meeting.	
	General concerns raised in the meeting:	
	1. Timing of tax impacts : Questions about the timing of the vote in June 2024 and when the borrowing process begins, affecting tax implications. Consideration of short-term borrowing for the initial years.	
	2. Debt exclusion timing : Uncertainty about when the debt exclusion takes effect in relation to the final borrowing.	
	3. Interest rates : Discussion about the estimates made with bond counselors and the need to explore a range of interest rates, considering potential variations beyond the initial estimate of 5%, such as 7.5%.	
	* Concerns expressed by the PTA members revolve around gaining a clearer understanding of the project's cost implications and ensuring transparency for the community.	
	Discussion:	
	T. Elmore comments that we should present the answers to these questions at the all boards committee and post the response on the website.	



21.9	Other Topics not Reasonably Anticipated 48 hours prior to the Meeting:	Record
	M. Ward shares an update on the Senior Center Carriage Housing Project. The second proposer acknowledged that most likely the Town of Clinton couldn't accept their proposals and I expect that would be the answer from the Attorney General as well.	
21.10	Public Comment:	Record
	Discussion: None	
21.11	Next Meeting: 02.06.2024 – CMS Building Committee Remote Meeting No.022 @6:30PM – Location: Zoom 02.13.2024 – All Boards Meeting – In-Person; Location: TBD 02.20.2024 – CMS Building Committee Remote Meeting No.023 @6:30PM – Location: In-Person	Record
	Discussion: None	
21.12	 <u>Adjourn:</u> 8:12 PM a motion was made by M. Moran and seconded by M. Ward to adjourn the meeting. Discussion: None; Roll Call Vote: B. Delorey(Y), C. Magliozzi (Y), S. Meyer(Y), M. Moran (Y), M. Ward (Y), C. McGown (Y); Abstentions: None All in favor. the meeting is adjourned. 	Record

Sincerely, DORE + WHITTIER Elias Grijalva Assistant Project Manager Cc: Attendees, File The above is my summation of our meeting. Please contact me for incorporation into these minutes if you have any additions and/or corrections.



Meeting Date:	January 30, 2024
Meeting Time:	6:30 PM
Project Name:	Clinton Middle School
Project Number:	202000640305
Meeting Purpose:	SBC Meeting No. 022
Location:	ZOOM
Meeting Link:	https://us06web.zoom.us/j/83692330688?pwd=PkM0wg3z2hjvXIcWYZfhka2sMKhgwf.1
Meeting ID:	836 9233 0688
Passcode:	263692
One Tab Mobile:	16468769923,,83692330688#,,,,*263692# US (New York)
Prepared By:	Elias Grijalva

- 1. Call to Order & number of voting members present.
- 2. Geothermal & PV Systems Discussion/Vote
- 3. COA Carriage House Designer Services Award
- 4. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting
- 5. Public Comment
- 6. Next Meetings
- 7. Adjourn



Project:	Clinton Middle School	Project No:	202000640305
Subject:	School Building Committee Meeting	Meeting Date:	01/30/2024
Location:	ZOOM	Time:	6:30 PM
Distribution:	Attendees, Project File	Prepared By:	E. Grijalva
MSBA Module:	4- Schematic Design		

Meeting Agenda

- 1. Call to Order & Number of Voting Members
- 2. Geothermal & PV Systems Discussion/Vote
- 3. COA Carriage House Designer Services Award
- 4. Other Topics not Reasonably Anticipated 48 hours prior to the meeting
- 5. Public Comment
- 6. Next Meeting
- 7. Adjourn

Name	Affiliation
Steven Meyer*	PBC Member- Superintendent
Chris McGown *	PBC Chair
Michael Moran*	PBC Member
Michael Ward*	PBC Member- Town Administration
Brian Delorey*	PBC Member
Shane Mcarthy	SBC Member - Teacher
Trip Elmore	DWMP- Project Director
Elias Grijalva	DWMP – Assistant Project Manager
Eric Moore	LPA A – Principal in Charge
Peter Caruso	LPA A – Project Manager
Sean Brennan	LPA A – Project Architect
Kevin Seaman	Seaman Engineering
David Fontaine Jr	Fontaine Bros – CEO
Jamie Blume	Fontaine Bros- Project Executive
Beth Paulson	Fontaine Bros – Project Manager
Chelsey Mutrie	Fontaine Bros – VP of Precon.
*PBC Voting Membe	rs



ltem No	Description	Action
22.1	<u>Call to Order</u> : 6:33PM meeting was called to order by PBC Chair, C. McGown with 5 of 7 members in attendance.	Record
22.2	Geothermal & PV Systems Discussion/Vote	Record
	Schematic Design Schedule updateprovided by P. Caruso1/12/24Schematic Design (SD) drawings and specifications to cost estimators.2/01/24Cost Estimates are due.2/02/24Cost Estimate reconciliation2/06/24SBC/PBC presentation (cost estimate)2/09/24Submit presentation and Cost Estimate to the Town	
	2/13/24Submit presentation and Cost Estimate to the rown2/13/24All-Boards Meeting2/20/24SBC vote to submit Schematic Design (SD) Package2/23/24Submit DESE & SD Package	
	S. Brennan summarizes the base system in Schematic Design (SD) and a potential geothermal system option.	
	 Packaged Air Source Heat Pump (Base system design) Dedicated Outdoor Air Systems (DOAS) Packaged HVAC Systems Inverter Variable Speed Compressors Energy Recovery (ERV) Wheels or Core Hot Water or Electric Back-up Heat 	
	 Heat Recovery Chiller/Heater (Base system design) Generates both chilled water and hot water simultaneously. Operation down to 0F with 130 F water Multiple 30-ton modules (Est. 150 ton+) 	
	 Geothermal System Types Traditional – normal well field; takes up a lot more land. Proprietary – pyramidal drilling; preserves the land and provides greater development options in the future. 	



Geothermal Cost Comparison				
	Est. Current System (ASHP only)	Est. Geothermal System (partial)	Delta	
Mechanical Scope (Direct Cost Only)	\$11,400,000	\$11,650,000	\$250,000	
Geothermal Wells and Site Work	\$0	\$3,000,000	\$3,000,000	
Subtotal	\$11,400,000	\$14,650,000	\$3,250,000	
Mass Save Rebates (275 Tons)	(\$220,000) \$800/ton	(\$553,000) 90 tons @ \$4500/ton 185 tons @ \$800/ton	(\$333,000)	
IRA (est. 34%)	\$0	\$ (4,981,000.00)	\$(4,981,000.00)	
Estimated Total Const. Costs	\$11,180,000	\$9,116,000	\$(2,064,000.00)	

• The annual heating energy consumption is estimated to be 190,800kWh/year.

• The Annual Heating Energy Cost is +/- 190,800kWh/year (.22cents) = \$42,000.00

System	Annual Cost	Median Service Life
Air-sourced heat pumps	\$16,790.00	15-20 years
Ground Source Heat Pumps	\$10,494.00	20-25 years
	\$(6,296.00)	(5-10 years)

• The savings of using geothermal equipment to be approx. \$6,300/year

 A geothermal system is expected to be 25-50% more efficient than an equivalent air source system.

T. Elmore emphasizes that nobody has received actual grants from this Inflation Reduction Act (IRA), so there is a little risk to consider, but it is published. The check would be issued about a year after the building is complete and you would need to meet the criteria, which is not fully understood at this point.

M. Moran asks, does anyone know if this system is running in other schools?

T. Elmore replies, there are several schools, for example Lexington and Cambridge

M.Moran asks, has anyone heard any comments and how it's working?

K. Seaman mentions that early installations, particularly in Westboro, utilized a system with standing column wells to extract water from the ground. While this method was efficient and



saved the need for numerous boreholes, there were notable failures due to the early stage of implantation.

M. Moran asks, how many wells would there be?

K. Seaman replies, the proposed design will be a partial geothermal system, which means about 20 wells estimated at 700 feet in depth.

S. Meyer mentions, the tax credit for geothermal only applies to projects which construction begins before January 1, 2025.

A motion was made by B. Delorey and 2nd by M. Moran, to proceed with Geothermal for the Schematic Design (SD) submission.

Discussion: None; **Roll Call Vote**: B. Delorey (Y), M. Moran (Y), S. Meyer (Y), C. McGown (Y); **Abstention**: M. Ward (Experienced technical difficulties)

Photovoltaic System Update presented by S. Brennan.

Estimated available square footage for photovoltaic (PV) cells is the following:

- Roof PV array | 28,830sf | +/-400kW array*
- Parking Lot Canopy PV array | 7,350sf | +/-100kW array*
 - TOTAL | 36,180sf | +/-500kW array.
 - Anything over 500kWh will require battery storage.

PV system on New School:

- 500kW estimated generation = 405,000kWh/year
- 405,000kWh/year x \$0.22/kWh = **\$89,100/year***

Budgetary Numbers:

School Roof (~400kW)	\$1	,400,000
Parking Lot Canopy (~100kW)	\$	350,000
Parking Lot Canopy Framing	\$	750,000

PV System Budget \$2,500,000

*Estimated Town Share After Incentives (30%): \$2,500,000 x 70% = \$1,750,000

M.Moran asks, does the unused power go back to the grid?

T. Elmore replies, yes, it goes back to the grid and then you get a credit swap.

M.Moran asks, will National Grid take it?

T. Elmore replies, you will have to work with National Grid to get them to take it.

- S. Meyer asks, is there any negative impact in terms of the energy code that we need to meet?
- **S. Brennan** replies, no there is not.

A motion was made by S. Meyer and 2nd by M. Moran, to have the PV system as an add alternate.

Discussion: None; **Roll Call Vote**: B. Delorey (Y), M. Moran (Y), S. Meyer (Y), C. McGown (Y); **Abstention**: M. Ward (Experienced technical difficulties)



	S. Brennan provides an updated rendering of the project. (refer to project website to watch the latest rendering)	
22.3	COA Carriage House Designer Services Award	Record
	A motion was made by S. Meyer and 2 nd by M. Moran, to accept SSV Architects qualifications and move forward with a price proposal.	
	Discussion: None; Roll Call Vote : B. Delorey (Y), M. Moran (Y), S. Meyer (Y), C. McGown (Y), M. Ward (Y); Abstention : None	
22.4	Other Topics not Reasonably Anticipated 48 hours prior to the Meeting:	Record
	Discussion: None	
22.5	Public Comment:	Record
	Discussion: None	
22.6	Next Meeting: 02.06.2024 – CMS Building Committee Remote Meeting No.022 @6:30PM – via Zoom 02.13.2024 – All Boards Meeting – In-Person; Location: CMS Cafetorium 02.20.2024 – CMS Building Committee Remote Meeting No.023 @6:30PM – via Zoom	Record
	Discussion: None	
22.7	 <u>Adjourn:</u> 8:16 PM a motion was made by S. Meyer and seconded by M. Ward to adjourn the meeting. Discussion: None; Roll Call Vote: B. Delorey(Y), C. Magliozzi (Y), S. Meyer(Y), M. Moran (Y), M. Ward (Y), C. McGown (Y); Abstentions: None 	Record
	All in favor, the meeting is adjourned.	

Sincerely, DORE + WHITTIER Elias Grijalva Assistant Project Manager Cc: Attendees, File The above is my summation of our meeting. Please contact me for incorporation into these minutes if you have any additions and/or corrections.



Meeting Date:	February 6, 2024
Meeting Time:	6:30 PM
Project Name:	Clinton Middle School
Project Number:	202000640305
Meeting Purpose:	SBC Meeting No. 023
Location:	ZOOM
Meeting Link:	https://us06web.zoom.us/j/83780505605?pwd=UqxeiPKDBdyQtSgmHakUg8PCjbkzPa.1
Meeting ID:	837 8050 5605
Passcode:	948445
One Tab Mobile:	+13052241968,83780505605#,,,,*948445# US
Prepared By:	Elias Grijalva

- 1. Call to Order & number of voting members present.
- 2. Senior Center Carriage House Project: Approval of Designer Services (Vote expected)
- 3. Previous Topics & Approval of January 09, 2024 & January 30, 2024, Meeting Minutes (Vote expected)
- 4. Invoices and Commitment for Approval (Vote expected)
 - > DWMP January Invoice No.018, in the amount of \$25,000.00
 - > LPA|A January Invoice No. 013, in the amount of \$44,859.00
- 5. Proprietary Items Vote (Vote expected)
- 6. Construction Cost Reconciliation Update
- 7. Total Project Budget Review (MSBA Form 3011)
- 8. Property DEED and registry filing update
- 9. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting.
- 10. Public Comment
- 11. Next Meetings
- 12. Adjourn



Project:	Clinton Middle School	Project No:	202000640305
Subject:	School Building Committee Meeting	Meeting Date:	02/06/2024
Location:	ZOOM	Time:	6:30 PM
Distribution:	Attendees, Project File	Prepared By:	E. Grijalva
MSBA Module:	4- Schematic Design		

Me	eting Agenda	Name	Affiliation
1.	Call to Order & Number of Voting Members	Steven Meyer*	PBC Member- Superintendent
2.	Previous topics & MM for Approval	Chris McGown *	PBC Chair
3.	Invoices and Commitments	Michael Moran*	PBC Member
4.	Proprietary Items Vote	Michael Ward*	PBC Member- Town Administration
5.	Construction Cost Reconciliation Update	Brian Delorey*	PBC Member
6.	Total Project Budget Review	Brian Farragher	CMS Facilities Director
7.	Property DEED and registry filing update	Kelly Turcotte	CMS Spec. Ed. Parent Advisory Council
8.	Other Topics not Reasonably Anticipated 48 hours prior to the meeting	Matthew Varakis	CMS School Committee Vice Chair
9.	Public Comment	Trip Elmore	DWMP- Project Director
10.	Next Meeting	Elias Grijalva	DWMP – Assistant Project Manager
11.	Adjourn	Eric Moore	LPA A – Principal in Charge
		Peter Caruso	LPA A – Project Manager
		David Fontaine Jr	Fontaine Bros – CEO
		Jamie Blume	Fontaine Bros- Project Executive
		Beth Paulson	Fontaine Bros – Project Manager
		Chelsey Mutrie	Fontaine Bros – VP of Precon.
		Joel Kent	Fontaine Bros – Chief Operating Officer
		Shane Sampson	Fontaine Bros- Sr. Project Manager
		*PBC Voting Me	mbers



ltem#	Description	Action
23.1	<u>Call to Order</u>: 6:34PM meeting was called to order by PBC Chair, C. McGown with 5 of 7 members in attendance.	Record
23.2	Previous Topics & Meeting Minutes for Approval A motion to approve the January 9, 2024, meeting minutes was submitted by S. Meyer and seconded by M. Moran.	Record
	Discussion : None; Roll Call Vote: B. Delorey (Y), M. Moran (Y), S. Meyer(Y), M. Ward (Y), C. McGown (Y); Abstentions: None; All in favor, motion passes.	
	A motion to approve the January 30, 2024, meeting minutes was submitted by S. Meyer and seconded by B. Delorey.	
	Discussion : None; Roll Call Vote: B. Delorey (Y), M. Moran (Y), S. Meyer(Y), M. Ward (Y), C. McGown (Y); Abstentions: None; All in favor, motion passes.	
23.3	Invoices and Commitments for Approval	Record
	Invoice 1: DWMP January Invoice, in the amount of \$25,000.00 A motion was made by S. Meyer and seconded by M. Moran for the approval of DWMP January Invoice.	
	Discussion : None; Roll Call Vote: B. Delorey (Y), M. Moran (Y), S. Meyer(Y), M. Ward (Y), C. McGown (Y); Abstentions: None; All in favor, motion passes.	
	Invoice 2: LPA A January Invoice, in the amount of \$44,859.00 A motion was made by S. Meyer and seconded by M. Moran for the approval of LPA A January Invoice.	
	Discussion : None; Roll Call Vote: B. Delorey (Y), M. Moran (Y), S. Meyer(Y), M. Ward (Y), C. McGown (Y); Abstentions: None; All in favor, motion passes	
23.4	Proprietary Items Vote	Record
	 T. Elmore states that according to the Massachusetts School Building Authority (MSBA) mandates that approval for proprietary items requires a vote from the committee. Network Switches - Extreme networks. Wireless Access Devices - Cisco Meraki Telephone System- Mitel Integrated Security System- Verkada 	
	A motion was made to accept the proprietary items by S. Meyer and 2 nd by M. Moran.	



	Discussion: None; Roll Call Vot (Y), C. McGown (Y) ; Abstentions	:e: B. Delorey (Y), M. Moran (Y), S. Meyer(Y), M. Ward : None; All in favor, motion passes	
23.5	Construction Cost Reconciliati	on Update	Record
	T. Elmore summarizes the const	ruction cost reconciliation.	
	Reconciled Budget	\$114.4 million	
	Value Engineering Identified: Total Project Budget:	\$1.5 million \$139.3 million	
	 Approximately 90% through Potential Identified \$1.5 mill Planting reductions, granite curb, Total project budget is proje Project currently under budge Small discrepancy of around Discussion: M.Moran asks, what happens if the transmission of transmissin of transmission of	reconciliation with some questions remaining. ion in value engineering savings. playground equipment reductions, reduce size of cted at \$139.3 million. get compared to previous estimates. \$500,000 between different estimates the bids come over the budget? the scope according to identified VE items, or we can ocurement. If file sub bid where anyone is allowed to bid ualify the trades. ify them or are they prequalified through DCAMM. qualifying. We have devised a method to streamline educe the burden on the team. It generally takes two	
23.6	Total Project Budget Review		Record
	T. Elmore reviews the 3011 and	the major categories.	
	Section	Amount	
	Feasibility Study:	\$1 million	
	Auministrative Cost:	\$4.1 MIIION \$12 million	
	Construction Cost:	\$12 IIIIII0I \$114 A million	
	Miscellanoous Cost	\$114.4 11111011 \$250 thousand	
	FF8.F	\$2.7 million	
	Sub-total:	\$135.3 million	-
	Contingency	\$4 million	-
	Total	130 2 million	-
	Approx Local Share	¢68.2 million	-
	Approx Local Sildre	400.2 ΠΙΙΙΙΟΠ (\$2.5 million)	
	Potential Geothermal/PV Grant	(\$2.5 million)	



	Potential Local Share: \$65.7 million	
	Discussion: M. Varakis asks can the designer speak to any recent projects they've done. What's the likelihood we see 50% of that contingency number back based on a new building. E. Moore replies, Auburn Middle School & Nelson Elementary schools, both saw money come back in terms of unused contingency, whether it was 50% or not, I don't have those exact figures.	
23.7	Property DEED and registry filing update	Record
	C.McGown states that the property Deed and registry filing should be completed this week.	
23.8	Other Topics not Reasonably Anticipated 48 hours prior to the Meeting: Discussion: None	Record
23.9	<u>Public Comment:</u> Discussion: None	Record
23.10	Next Meeting: 02.13.2024 – All Boards Meeting – In-Person; Location: CMS Cafetorium 02.20.2024 – CMS Building Committee Remote Meeting No.023 @6:30PM – via Zoom Discussion: None	Record
23.11	 Adjourn: PM a motion was made by M. Ward and seconded by M. Moran to adjourn the meeting. Discussion: None; Roll Call Vote: B. Delorey (Y), M. Moran (Y), S. Meyer(Y), M. Ward (Y), C. McGown (Y); Abstentions: None; All in favor, motion passes. 	Record

Sincerely, DORE + WHITTIER

Elias Grijalva Assistant Project Manager Cc: Attendees, File The above is my summation of

The above is my summation of our meeting. Please contact me for incorporation into these minutes if you have any additions and/or corrections.



Meeting Date:	February 20, 2024
Meeting Time:	6:30 PM
Project Name:	Clinton Middle School
Project Number:	202000640305
Meeting Purpose:	SBC Meeting No. 024
Location:	Remote- Zoom
Meeting Link:	https://us06web.zoom.us/j/83150253943?pwd=BC2l91Zlg7xF52q4Agl1Hfl4KybGt1.1
Meeting ID:	831 5025 3943
Passcode:	935820
One Tab Mobile:	+16469313860,,83150253943#,,,,*935820# US
Prepared By:	Elias Grijalva

- 1. Call to Order & number of voting members present.
- 2. COA Carriage House Design Contract
- 3. Previous Topics & Approval of February 6, 2024, Meeting Minutes (Vote expected)
- 4. All Boards Meeting Update
- 5. Value Engineering (VE) Items & vote to accept Landscaping VE (Vote expected)
- 6. Project Budget Update
- 7. Schematic Design (SD) Review & Approval to have DWMP & LPA | A submit SD Package to the MSBA (vote expected)
- 8. Next steps: Public Outreach
- 9. Other Topics not Reasonably Anticipated 48 hours prior to the Meeting
- 10. Public Comment
- 11. Next Meetings
- 12. Adjourn



Project:	Clinton Middle School	Project No:	202000640305
Subject:	School Building Committee Meeting	Meeting Date:	02/20/2024
Location:	ZOOM	Time:	6:30 PM
Distribution:	Attendees, Project File	Prepared By:	E. Grijalva
MSBA Module:	4- Schematic Design		

Meeting Agenda

- 1. Call to Order & Number of Voting Members
- 2. COA Carriage House Design Contract
- 3. Previous topics & MM for Approval
- 4. All Boards Meeting Update
- 5. VE Items & vote to accept landscape VE
- 6. Project Budget Update
- 7. SD Review & Approval to submit to MSBA
- 8. Next steps: Public Outreach
- 9. Other Topics not Reasonably Anticipated 48 hours prior to the meeting
- 10. Public Comment
- 11. Next Meeting
- 12. Adjourn

Name

Steven Meyer*PBCChris McGown *PBCMichael Moran*PBCMichael Ward*PBCBrian Delorey*PBCChris Magliozzi*PBCBrian FarragherCMSBrendan BaileyCMSMatthew VarakisCMSTrip ElmoreDWNElias GrijalvaDWNPeter CarusoLPAJamie BlumeFontChelsey MutrieFont

Affiliation

PBC Member- Superintendent PBC Chair PBC Member PBC Member- Town Admin PBC Member PBC Member & Vice Chair CMS Facilities Director CMS SC Chair CMS SC Chair CMS SC Vice Chair DWMP- Project Director DWMP - Assistant PM LPA | A - Project Manager Fontaine Bros- Project Ex. Fontaine Bros - VP of Precon.



ltem No.	Description	Action
24.1	Call to Order & number of voting members present 4:04pm meeting was called to order by PBC Chair C. McGown with 6 of 7 voting members in attendance.	Record
24.2	COA Carriage House Design Contract	
	 C.McGown remarked that this matter had already been addressed during our previous Permanent Building Committee Meeting and no additional information is available at this time. Discussion: None 	
24.3	Previous Topics & Approval of February 6 ,204, Meeting Minutes:	Record
	A motion to approve the February 06,2024 meeting minutes was submitted by S. Meyer and seconded by M. Moran.	
	Discussion : None; Roll Call Vote: B. Delorey (Y), M. Moran (Y), M. Ward (Y), S. Meyer(Y), C. McGown (Y); Abstentions: C. Magliozzi; All in favor, motion passes.	
24.4	All Boards Meeting Update	Record
	T. Elmore comments that the meeting had a good turnout, all questions from various boards and the community were addressed, and the project costs were significantly lower than projected in the feasibility study.	
	S. Meyer notes that there were some concern neighbors from the South Main area worried about construction vehicles and entrance access, which was addressed before and during the presentation.	
	Discussion: None	
24.5	Value Engineering (VE) Items & vote to accept landscape VE (refer to meeting packet for a list of identified VE items)	Record
	T. Elmore highlights the list of potential cost reductions identified during the project estimation. We are proposing a 30% reduction amounting to approximately \$320,000.00. We are seeking the committee's approval to proceed with this cost-savings measure and ensure it's documented as a valuable engineering item for the Schematic Design submission.	
	A motion to approve the landscape value engineering items was submitted by S. Meyer and seconded by M. Moran.	
	C. Magliozzi asks is this motion for just the landscape reduction or the other value engineering items as well?T. Elmore confirms this is strictly for landscape reduction.	


	Roll Call Vote: B. Delorey (Y), C. Magliozzi (Y), Moran (Y), M. Ward (Y), S. Meyer(Y), C. McGown (Y) Abstentions: None; All in favor, motion passes.	
24.6	Project Budget Update	Record
	T. Elmore notes that there was a recent change in the budget from the last meeting. The core academic ineligible square footage increased from 50 to 500 square feet. The additional 450 square feet is deemed ineligible. The adjustment resulted in a reduction of the facilities grants by approximately half a million dollars, consequently increasing the local share by the same amount. Thus, the initial local share presented was 61.3 million, it now stands closer to 61.8 million. It's important to note that these figures are subject to change as negotiations with the MSBA progress over the next month.	
	Discussion:	
	S. Meyer asks what did the MSBA cut off?	
247	1. Linore states the maker space on the library, the MSDA deem the space to be meligible.	Deserved
24.7	to the MSBA (vote expected)	Record
	A motion was made by S. Meyer to approve the Clinton Building Project Schematic Design Budget and Submission by the OPM and Design Team to the MSBA. 2 nd by B. Delorey.	
	Discussion:	
	M. Ward asks when the MSBA assesses the Schematic Design package, will they make changes or amendments to the design or budget, or is it more like a review process which simply involves either approving or rejecting it outright?	
	T. Elmore replies, during the discussions with the MSBA, the focus would primarily be on clarifying any spaces they have questions about regarding eligibility, which influences the budget allocation. The MSBA typically does not engage in other aspects of the project at this stage.	
	Roll Call Vote: B. Delorey (Y), C. Magliozzi (Y), Moran (Y), M. Ward (Y), S. Meyer(Y), C. McGown (Y) Abstentions: None; Vote results: (6) in Favor, (0) Oppose, (0) Abstain Motion: <u>Passes</u> / Fails	
24.8	Next Steps: Public Out	Record
	T. Elmore highlights the importance of preparing for the next steps after working with the MSBA over the next month. He emphasizes the need to inform the public and address any potential questions or misinformation accurately. The team will provide support, as they are all invested in the project's success.	
	Next Steps:	
	Update FAQ document.	
	Add user friendly links to current information on websites.	



 Work with PTA March 15 - Dr. Meyer on Chamber of Commerce TV Show Upcoming Community Events 	
 DWMP, LPA A, & Fontaine are available for "support of; Upcoming Events in the Town of Clinton Support in generating the facts about the project. Answering any community questions 	
 Discussion: M. Varakis suggested the idea of pre-recording a presentation with key slides and voiceovers to distribute widely, aiming to combat misinformation and ensure factual understanding among the public. T. Elmore emphasizes the importance of having local community members represent the project data, rather than relying on consultants. A recent incident at the Whittier vocation school, where the contractor involvement in campaign efforts for a favorable vote was met with disapproval from the community. The community voices must be at the forefront of the project presentations and discussion to maintain trust and credibility. C. Magliozzi requests a guide on what the committee are allowed to do and what we are not allowed to do, in terms of advocacy. T. Elmore states he will look into it. 	
Other topics not Reasonably Anticipated 48 hours prior to the Meeting: Discussion: None	Record
Public Comment: Discussion: None.	Record
Next SBC Meeting: PBC/SBC Remote Meeting: March 12, 2024 @ 6:30PM	Record
Adjourn: 7:14 PM A motion was made by S. Meyer and seconded by C. Magliozzi to adjourn the meeting.	Record
Discussion: None; Roll Call Vote : B. Delorey (Y), C. Magliozzi (Y), Moran (Y), M. Ward (Y), S. Meyer(Y), C. McGown (Y) Abstentions: None; All in favor, motion passes.	
	 Work with PTA March 15 - Dr. Meyer on Chamber of Commerce TV Show Upcoming Community Events DWMP, LPA A, & Fontaine are available for "support of; Upcoming Events in the Town of Clinton Support in generating the facts about the project. Answering any community questions Discussion: M. Varakis suggested the idea of pre-recording a presentation with key slides and voiceovers to distribute widely, aiming to combat misinformation and ensure factual understanding among the public. T. Elmore emphasizes the importance of having local community members represent the project data, rather than relying on consultants. A recent incident at the Whittier vocation school, where the contractor involvement in campaign efforts for a favorable vote was met with disapproval from the community. The community voices must be at the forefront of the project presentations and discussion to maintain trust and credibility. C. Magliozzi requests a guide on what the committee are allowed to do and what we are not allowed to do, in terms of advocacy. T. Elmore states he will look into it. Other topics not Reasonably Anticipated 48 hours prior to the Meeting: Discussion: None. Next SBC Meeting: PBC/SBC Remote Meeting: March 12, 2024 @ 6:30PM Adjourn: 7:14 PM A motion was made by S. Meyer and seconded by C. Magliozzi to adjourn the meeting. Discussion: None; Roll Call Vote: B. Delorey (Y), C. Magliozzi (Y), Moran (Y), M. Ward (Y), S. Meyer(Y), C. McGown (Y) Abstentions: None; All in favor, motion passes.

Sincerely, DORE + WHITTIER Elias Grijalva Assistant Project Manager Cc: Attendees, File The above is my summation of our meeting. Please contact me for incorporation into these minutes if you have any

additions and/or corrections.

Massachusetts School Building Authority







February 15, 2024 All-Boards Meeting

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Clinton MIDDLE SCHOOL

BUILDING PROJECT

PSR Phase - 06.27.2023	Base Repair	New
Option	BR	NC-1 [700]
Building Square Footage	130,000	136,000
MSBA \$/Sq.Ft. Reimbursement Cap	-	@ \$393 sf
Cost ESTIMATE <u>including</u> Contingency	\$101.5M	\$135 - \$149M
MAXIMUM Reimbursement Amount	\$0	\$52 - \$57M
POTENTIAL Local Share	\$101.5M	\$83 - \$92M
Duration & Disturbance	5 to 10 years	3 years
Time Frame	very high	low



±\$13.6M

±\$3.9M

±\$9.8M

±\$3.7M

±\$4.4M

±\$1.5M

±\$1.2M

±\$1.1M

±\$5.5M

±\$2.1M

±\$2.3M

±\$3.0M

Estimated Project Costs

Scope of Work Haz Mat Abatement & Demo **Roofing & Structure Fire Protection Interior Ceilings Exterior Walls Exterior Doors & Windows Interior Finishes Exterior Improvements**

HVAC

Plumbing

Electrical

Accessibility





OPTIONS COST COMPARISON

Tier 1 Upgrades

- **HVAC System Replacement:** \$13,650,000.00
 - Replacing 48 yr. old gas fired boilers
 - New RTU heat pump system and ductwork
 - New classroom units and piping
 - VRF for admin. gvm. café. media
 - All new controls
- \$3,900,000.00 Plumbing System Replacement:
 - New domestic water system and fixtures
 - New AG sanitary W&V and AG Storm
- **Electrical System Replacement:** \$8,710,000.00
 - New Electrical Service & Equipment ٠
 - Normal and emergency power (Generator) ٠
 - Mechanical wiring, new lighting
 - Fire Alarm, BDA, lightning protection

Tel/Com & AV Upgrade: \$1,105,000.00

- New AV Rough-In
- New Security & Access Control
- Assisted Listening systems, master clock/PA
- Hazardous Materials Abatement \$1,585,000.00
 - Removals associated with above ceiling and mechanical systems
- Demo & Temp Protection: \$1,950,000.00
 - Removal of all ceilings/necessary walls for new systems
 - Removal of all existing systems
 - Protection of all finishes (floor, millwork, doors, etc.)
- **Necessary Structural Upgrades:** \$1,150,000.00
 - Structural Steel for new roof units and new roof openings
 - Seismic clips at interior masonry walls
 - Supplemental steel for new above ceiling systems
- Sitework for Updating Utilities: \$675,000.00
 - New 8" water line for sprinkler system
 - New primary electrical feeds/ductbank
- **Interior Ceilings Replacement:** \$1,105,000.00
 - New ACT ceilings throughout
 - Healthzone ACT in kitchen and bathrooms

- \geq Necessary Drywall/Paint Upgrades: \$1,950,000.00
 - Walls and soffits for new systems ٠
 - New paint throughout

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⊳

- Remove/Abate 28 Yr. Old Roof: \$3,325,000.00
- **Complete Roof Replacement:**
 - New adhered PVC Roof assembly
 - Flashings and blocking for new roof penetrations

\$617,500.00

\$1,560,000.00

- \$5.000.000.00 Temporary Student Classrooms:
 - Swing space classroom trailers allowance for 200 students
 - Includes temporary utilities

Tier 1 Code Required Upgrades

- Fire Sprinkler System:
 - Complete new fire protection system
 - Necessary Canopy and Kitchen heads
 - Accessibility Required Upgrades: \$1,200,000.00
 - Elevator replacement
 - Stage vertical lift
 - Signage
 - Bathroom updates (partitions, accessories)
 - Classroom casework with sinks
 - Egress doors and hardware
 - Interior door hardware
 - Misc. exterior surface upgrades (sidewalks, athletic paths)
 - Stair Railings
 - Accessible gym seating

Tier 2 Upgrades

\$5,500,000.00

\$3,000,000.00

\$550,000.00

- Replace All Existing Windows/Exterior Doors: \$2,150,000.00
 - Replace all existing windows/storefront DGU
 - New blocking and sealants
- New Energy Compliant Facade: \geq
 - New insulated metal panel to entire facade
 - Exterior wall AVB to existing masonry
 - Exterior wall flashings and tie-ins
- \$2,350,000.00 \geq Flooring Finishes Replacement:
 - Remove and Replace VCT flooring and base throughout
 - New carpet in admin & media, new tile in all bathrooms
- **Classroom Casework Replacement:** \$1,885,000.00
- Upgrade all classroom casework
- **Exterior Improvements:** New bituminous parking, curbing and line stripping
- New sidewalks and site lighting
 - Landscaping, fence and field updates
- \geq New Lockers:
- \geq Kitchen & Athletic Equipment Upgrades: \$1,080,000.00
 - Adequate sized cooler and serving equipment
 - New telescoping bleachers & gym partitions
 - Misc. theatre and athletic equipment updates

BASE REPAIR DETAIL

<u>Tier 1 Upgrades</u>

\triangleright	HVAC System Replacement:	\$13,650,000.00
\triangleright	Plumbing System Replacement:	\$3,900,000.00
\triangleright	Electrical System Replacement:	\$8,710,000.00
\triangleright	Tel/Com & AV Upgrade:	\$1,105,000.00
\triangleright	Hazardous Materials Abatement	\$1,582,500.00
\triangleright	Demo & Temp Protection:	\$1,950,000.00
\succ	Necessary Structural Upgrades:	\$1,150,000.00
\triangleright	Sitework for Updating Utilities:	\$675,000.00
\succ	Interior Ceilings Replacement:	\$1,105,000.00
\triangleright	Necessary Drywall/Paint Upgrades:	\$1,950,000.00
\triangleright	Remove/Abate Roof:	\$617,500.00
\triangleright	Complete Roof Replacement:	\$ 3,325,000.00
\triangleright	Temporary Student Classrooms:	\$ 5,000,000.00

Tier 2 Upgrades

\triangleright	Replace All Existing Windows/Exterior Doors	\$2,150,000.00
\triangleright	New Energy Compliant Façade:	\$5,500,000.00
\triangleright	Flooring Finishes Removal and Replacement:	\$2,350,000.00
\triangleright	Classroom Casework Replacement:	\$1,885,000.00
\triangleright	Exterior Improvements:	\$3,000,000.00
\triangleright	New Lockers:	\$550,000.00
\triangleright	Kitchen & Athletic Equipment Upgrades:	\$1,080,000.00
	GC's/GR's and CM Fee:	\$2,477,250.00
	Tier 2 Estimated Construction Cost:	\$18,992,250.00

Tier 2 Estimated Contingencies:\$3,418,605.00Tier 2 Estimated Soft Cost:\$3,798,450.00Total Estimated Tier 2 Cost:\$26,209,305.00

2030

\$4,191,397 threshold

2025

Tier 1 Code Required Upgrades

Fire Sprinkler System: \$1,560,000.00
 Accessibility Required Upgrades: \$1,200,000.00
 GC's/GR's and CM Fee: \$7,122,000.00

Tier 1 Estimated Construction Cost:\$54,602,000.00Tier 1 Estimated Contingencies:\$9,828,360.00Tier 1 Estimated Soft Costs:\$10,920,400.00Total Estimated Tier 1 Cost:\$75,350,760.00

Total Base Repair Estimate

Total Estimated Tier 1 Cost:\$75,350,760.00Total Estimated Tier 2 Cost:\$26,209,305.00

Total Estimated Cost: \$101,560,065.00

BASE REPAIR TIMELINE

700 STUDENTGRADES 4-8136,000 GROSS SQUARE FEET



-			
CORE ACADEMIC SPACES	36,120	50	36,070
SPECIAL EDUCATION	14,200	6,150	8,050
ART & MUSIC	5,100	500	4,600
VOCATIONS & TECHNOLOGY	4,320	0	4,320
HEALTH & PHYSICAL EDUCATION	9,400	1,000	8,400
MEDIA CENTER	4,405	0	4,405
DINING & FOOD SERVICE	10,558	1,000	9,558
MEDICAL	660	50	610
ADMINISTRATION & GUIDANCE	3,500	0	3,500
CUSTODIAL & MAINTENANCE	2,175	0	2,175
<u>OTHER</u>	0	0	0
SUBTOTAL	90,438	8,750	81,688
NON-PROGRAMMED SPACES	45,562	11,250	34,312
TOTAL	136,000	20,000	116,000
	1.50		1.41

PROPOSED

DIFFERENCE

GUIDELINE

SPACE SUMMARY TEMPLATE

SINCE WE MEET LAST, SOME MAJOR MILESTONES/ DECISIONS MADE INCLUDES THE FOLLOWING:

- MSBA APPROVED TOWN TO PROCEED TO SD
 IN AUGUST 2023
- CONSTRUCTION MANAGER SELECTED IN DEC. 2023
- BUILDING WILL BE ALL-ELECTRIC (no gas)
- GEOTHERMAL HEATING WILL BE INCLUDED
- BUILDING WILL BE "SOLAR READY"; PV's will be included as an add alternate

UPDATES

4th Grade Neighborhood CLASSROO 4TH GYM GIRLS COLLABORATIVE WORK AREA 4TH CLASSROOM 4TH SMALL GROU CLASSROOM 4TH CLASSROOM 4TH SPED LIASON 4TH KER SPACE Main Entrance NEDIA CENTER CAFETERIA NCE 748 SCIENCE 78 7th & 8th Grade STEM

FIRST FLOOR PLAN

FIRST FLOOR PLAN



SECOND FLOOR PLAN



SECOND FLOOR PLAN





AERIAL VIEW



AERIAL VIEW



AERIAL VIEW

UPDATE VIDEO



ENABLING PACKAGE



SITE ENTRANCE



PARENT DROP OFF



CONSTRUCTION OF NEW BUILDING



RETURN TO SCHOOL IN 2026



DEMOLISION & MOVE IN



1st DAY OF SCHOOL IN THE NEW BUILDING



COMPLETION OF SITE WORK



December 2023



Summary of reimbursement and local share

- Total Project Cost
- Less MSBA Max.
 <u>Reimbursement Funds</u>
- Sub-total = local share
- Less Potential Geothermal & PV State and Federal Grant Funds
- Revised potential local share

\$ 139.3 Million
- \$ 77.9 Million
\$ 61.3 Million

- \$ 2.5 Million
 - **\$** 59 Million

- Currently, Municipalities can finance MSBA new building projects for 30 years
 - Recent legislature filed may allow up to 40 year financing
 - Municipal interest rates are typically lower and more stable than normal interest rates
- Once a debt exclusion is approved, short term borrowing will be used to cover the expenses incurred during the construction process.
 - This will result in an incremental tax increase beginning in FY26
- Once the project is completed, the final exact amount will be borrowed and financed
 - The total impact of the borrowing will most likely be in FY29

Financing a New Building

Residential Tax Impact	25 yrs at 4.0%	30 yrs at 4.25%	40 yrs at 5.25%
Borrowing Amount	\$61,300,000	\$61,300,000	\$61,300,000
Capital Debt Rate Estimate	1.61	1.50	1.52
2024 Average Assessed Residential Value	\$403,286	\$403,286	\$403,286
Average Annual Debt Exclusion Increase	\$650	\$605	\$612

Debt Exclusion Increase:	25 yrs at 4.0%	30 yrs at 4.25%	40 yrs at 5.25%
Quarterly	\$162.50	\$151.25	\$153.00
Monthly	\$54.17	\$50.42	\$51.00
Weekly	\$12.50	\$11.63	\$11.77
Daily	\$1.78	\$1.66	\$1.68

Current estimated cost of borrowing \$61.3M

Expiring Debt Exclusions During Construction	Average Tax Impact	Expiration Date
Clinton Elementary School	\$40.33	5/1/2025
Rauscher Farm Open Space Acquisition	\$24.20	5/1/2028
Senior Center Renovation	\$12.10	5/1/2028
Total	\$76.63	

Expiring Debt Exclusions After Construction	Average Tax Impact	Expiration Date
School Track / Fire Engine	\$8.07	2030
School Track, Fire Engine, Water St. Sidewalks	\$20.16	2031
Savage Field Renovations	\$8.07	2032
Total	\$36.30	

Expiring Debt Exclusions

- Clinton High School was completed in 1999
- Clinton Elementary School was completed in 2003
- Clinton Middle School was completed in 1974
- Fifty year old buildings, typically require major upgrades to their systems :
 - CHS will be 50 years old in 2049
 - CES will by 50 years old in 2053
 - CMS is 50 years old now
- If we try to just complete base repairs, in 2050, the town will have two buildings approximately 50 years old, and one approximately 75 years old.

Timing of this Process

Thank you for attending/watching

Any Questions?

Thank you and Questions



TOWN OF CLINTON

Office of the Selectmen 242 Church Street, Clinton, Massachusetts 01510 Tel: (978) 365-4120 • Fax: (978) 365 413(

BOARD OF SELECTMAN

Edward J. Devault Mary Rose Dickhaut Sean J. Kerrigan Matthew H. Kobus Julie K. Perusse

Michael J. Ward Town Administrator

02/21/2024

Ms. Diane Sullivan Senior Capital Program Manager 40 Broad Street, Suite 500 Boston, Massachusetts 02109

Dear Ms. Sullivan:

The Town of Clinton Permanent Building Committee ("PBC") has completed review of the Schematic Design Submittal for the Clinton Middle School project and voted to approve and authorize the OPM to submit the Schematic Design related submittals to the MSBA for consideration on February 20, 2024. A draft copy of the PBC meeting minutes, which includes the specific language of the vote and the number of votes in favor, opposed and abstained, are attached. A certified copy will be submitted upon approval of the meeting minutes.

The PBC held (11) meetings regarding the Clinton Middle School project since the MSBA Board of Directors approved the Town to proceed into Schematic Design on August 30,2023.

• SBC/PBC Meeting No. 14

- Date/Time: July 18, 2023, at 6:30pm
- Location: Remote Meeting via Zoom
- Topics Discussed: PSR Submission Update, Facility Assessment Subcommittee (FAS) Update
- SBC/PBC Meeting No. 15
 - o Date/Time: August 22, 2023, at 6:30pm
 - o Location: Remote Meeting via Zoom
 - o Topics Discussed: FAS Update, LPA | A Update, CM @ Risk Method Discussion
- SBC/PBC Meeting No. 16
 - Date/Time: September 19, 2023, at 6:30pm
 - o Location: Remote Meeting via Zoom
 - Topics Discussed: Project Budget Update, MSBA Board of Directors Update, LPA|A Update, CM@R discussion & vote, Community Outreach

• SBC/PBC Meeting No. 17

- Date/Time: October 03, 2023, at 6:30pm
- Location: Remote Meeting via Zoom
- Topics Discussed: Mechanical Systems Discussion/Vote, CM@R subcommittee selection, OIG Application submission permission, CM@R RFQ draft discussion.

• SBC/PBC Meeting No. 18

- o Date/Time: October 17, 2023, at 6:30pm
- Location: Clinton Middle School Media Center
- Topics Discussed: LPA|A Update, CM@R Update, All Electric vs Hybrid fuel system discussion



TOWN OF CLINTON

Office of the Selectmen 242 Church Street, Clinton, Massachusetts 01510 Tel: (978) 365-4120 • Fax: (978) 365 4130

BOARD OF SELECTMAN

Edward J. Devault Mary Rose Dickhaut Sean J. Kerrigan Matthew H. Kobus Julie K. Perusse

Michael J. Ward Town Administrator

- SBC/PBC Meeting No. 19
 - Date/Time: November 14, 2023, at 6:30pm
 - o Location: Remote meeting via Zoom
 - Topics Discussed: LPA|A Update, CM@R Update,
- SBC/PBC Meeting No. 20
 - o Date/Time: December 19, 2023, at 6:30pm
 - o Location: Remote Meeting via Zoom
 - Topics Discussed: LPA | A Update, CM@R Update,
- SBC/PBC Meeting No. 21
 - o Date/Time: January 09,2024, at 6:30pm
 - o Location: Remote Meeting via Zoom
 - Topics Discussed: CM Introduction, LPA|A Update, TEDI vs PHIUS, Property DEED and registry filing update, project funding discussion
- SBC/PBC Meeting No. 22
 - o Date/Time: January 30,2024, at 6:30pm
 - o Location: Remote Meeting via Zoom
 - o Topics Discussed: Geothermal & PV Discussion/Vote
- SBC/PBC Meeting No. 23
 - o Date/Time: February 06,2024, at 6:30pm
 - Location: Remote Meeting via Zoom
 - Topics Discussed: Construction Cost Reconciliation Update, Total Project Budget Review, Property DEED and registry filing update.
- SBC/PBC Meeting No. 24
 - Date/Time: February 20,2024, at 6:30pm
 - Location: Remote Meeting via Zoom
 - Topics Discussed: All Boards Meeting Update, VE Items, Project Budget Update, Vote on SD Design, Next steps.

In addition to the SBC/PBC meetings listed above, the Town held (1) public meeting, which was posted in compliance with the Open Meeting Law, at which the Clinton Middle School project was discussed.

February 15, 2024 – Community & All Boards Public Meeting with Owner's Project Manager DWMP, Designer LPA|A, Superintendent of Schools Steve Meyer. Topics discussed: Team Introduction, Base Repair Cost Evaluation, New Building Design Review, Timeline, Estimated Construction Cost & Total Project Cost Review, Local funding impact, and Questions & Answers

The meeting presentation materials, meeting minutes, and summary materials as they relate to the Clinton Middle School project. Are available locally for public review at:

www.clintonmiddleschoolbuildingproject.com > Committee (Clinton Middle School Building Project)

BOARD OF SELECTMAN



TOWN OF CLINTON

Office of the Selectmen 242 Church Street. Clinton, Massachusetts 01510 Tel: (978) 365-4120 • Fax: (978) 365 4130 Edward J. Devault Mary Rose Dickhaut Sean J. Kerrigan Matthew H. Kobus Julie K. Perusse

Michael J. Ward Town Administrator

To the best of my knowledge and belief, each of the meetings listed above complied with the requirements of the Open Meeting Law, M.G.L. c. 30A, §§ 18-25 and 940 CMR 29 et seq. Ρ

If you have any questions or require any additional information, please contact the Owner's Project Manager, Dore & Whittier Management Partners, at (978) 499-2999.

By signing this Local Action and Certification, Approval 1 hereby certify that, to the best of my knowledge and belief, the information supplied by the information supplied by the District in this Certification complete, is true, and accurate.

harflord

By: Michael Ward **Title: Chief Executive Officer & Town Administrator**

Date: 02/21/2024

By signing this Local Action and Approval Certification, 1 hereby certify that, to the best of my knowledge and belief, is true, complete, and

accurate. Bv:

Steve Meyer Title: Superintendent Schools

Date: 02/21/2024

By signing this Local Action and Approval Certification, hereby certify that, to the best of my knowledge and belief, the information supplied by the District in this Certification the District in this Certification is true, complete, and accurate.

Bv:

Brendan Bailey Title: Chair of the School Committee

Date: 02/21/2024

of

4.1.2 SCHEMATIC DESIGN BINDER

- T. Supporting Documents
 - 1. Press & Media Coverage
 - 2. Clinton MSBA Design Enrollment Certification
 - 3. Deed Recording Documents
Schematic Design

4.1.2 SCHEMATIC DESIGN BINDER T. Supporting Documents

1. Press and News Articles

A proactive community outreach effort has continued throughout the Schematic Design phase. Some of the key steps include the following:

- The project website continued to be maintained and updated so the public will have current information and can be found here: https://www.clintonmiddleschoolbuildingproject.com/
 As discussed in the PSR, the intent is to continue to upload public documents (i.e. general information, existing conditions, meeting minutes, reports, graphics, schedules, project photos, presentations, etc.) available for viewing on this website. The District has also added a link to submit questions or comments.
- All-Boards Meeting: The project team presented an update to the All-Boards group at an open to the public and televised meeting that took place on February 15th, 2024, at the Clinton Middle School cafeteria. The All-Boards group consists of the following town boards:
 - Board of Selectmen
 - School Committee
 - Finance Committee
 - Permanent Building Committee / School Building Committee

LPA|A presented an update on the project to date, including a review of the site and building that is being submitted to MSBA as part of the SD submission. Additionally, the Superintendent and Town Manager discussed tax implications to the town residents based on the estimated project costs.

- School Building Committee (SBC) Meetings: All SBC meetings have been conducted in accordance with the state's open meeting law. All agendas and minutes of these meetings can be found in section 4.1.2, S. The final SBC meeting for the PSR was held on February 20th, 2024, at the Middle School where the SD package was voted on and approved to be submitted to MSBA.
- The Clinton Middle School/MSBA project is a regular agenda item for all CPS school committee meetings. All CPS school committee meetings are live-streamed, and the recordings are available online. Additionally, the local paper (Clinton Item) has run multiple articles in which the CMS/MSBA updates from the school committee meeting have been feature articles. Finally, multiple updates have been provided to the Clinton Board of Selectmen and the Clinton Finance Committee. These meetings are broadcast on Clinton Cable TV and the recordings are available online. Refer to section 4.1.2, A, 1 for a list of all meetings that were held.





MSBA Module 4

Schematic Design

4.1.2 SCHEMATIC DESIGN BINDER

T. Supporting Documents

1. Press and News Articles

 Clinton Public Schools has made every effort to keep the public informed of the MSBA process. The District puts out a monthly newsletter, as part of this process. The newsletter is sent to all addresses that the District has on file and is also available to anyone who signs up on the District's website. Within the newsletter, the superintendent, Steven Meyer, always includes an update on the project. Here is a list of monthly newsletters from March 2022 to now:

https://conta.cc/42fgkBz https://conta.cc/3T3d7To https://conta.cc/3QCbz0Y https://conta.cc/465ay60 https://conta.cc/3NIDJdA https://conta.cc/45Kyo8i https://conta.cc/3NIR5In https://conta.cc/3FrRe8t https://conta.cc/3lyJ8f2 https://conta.cc/3XN4Ulv https://conta.cc/3WCzL3i https://conta.cc/3U2TfN0 https://conta.cc/3Dd8ZYm https://conta.cc/3R83FJK https://conta.cc/3tk5TNb https://conta.cc/3xR2R5S https://conta.cc/3KM0bdb https://conta.cc/3vBORfc





assachusetts School Building Authority

Deborah B. Goldberg Chair, State Treasurer

James A. MacDonald

Mary L. Pichetti Chief Executive Officer Executive Director / Deputy CEO

August 31, 2023

Mr. Michael J. Ward, Town Administrator Town of Clinton 242 Church Street Clinton, MA 01510

Re: Town of Clinton, Clinton Middle School

Dear Mr. Ward:

On August 30, 2023, the Massachusetts School Building Authority's Board of Directors voted to approve the Town of Clinton's Preferred Schematic for the Clinton Middle School project. Based on this approval, enclosed is a Design Enrollment Certification for 700 students in grades 4-8 for your review and execution.

Please sign and return the attached certification within 21 calendar days to document the Town of Clinton's agreement on the design enrollment for the Clinton Middle School project.

If you have any questions or comments, please do not hesitate to contact Allison Sullivan (Allison.Sullivan@MassSchoolBuildings.org).

Sincerely,

Michael & McDul

Michael McGurl Director of Capital Planning

Cc: Legislative Delegation Matthew H. Kobus, Chair, Clinton Select Board Brendan Bailey, Chair, Clinton School Committee Dr. Steven Meyer, Superintendent, Clinton Public Schools Trip Elmore, Owner's Project Manager, Dore & Whittier Management Partners, LLC Kathryn Crockett, Designer, Lamoureux Pagano Associates, Architects File: 10.2 Letters (Region 2)

MASSACHUSETTS SCHOOL BUILDING AUTHORITY TOWN OF CLINTON CLINTON MIDDLE SCHOOL DESIGN ENROLLMENT CERTIFICATION

As a result of a collaborative analysis with the Massachusetts School Building Authority (the "MSBA") of enrollment projections and space capacity needs for the proposed project at Clinton Middle School, the Town of Clinton hereby acknowledges and agrees that the design of the proposed project at Clinton Middle School shall be based on an enrollment of no more than 700 students in grades 4-8. The Town of Clinton further acknowledges and agrees that, pursuant to 963 CMR 2.00 et seq., the MSBA shall determine the square feet per student space allowance and total square footage for grades 4-8 in a middle school serving 700 students. The Town of Clinton acknowledges and agrees that it has no right or entitlement to any particular design enrollment, square feet per student space allowance, or total square footage and that it has no right or entitlement to a design enrollment any greater than 700 students for Clinton Middle School, and further acknowledges and agrees that it shall not bring any claim or action, legal or equitable, against the MSBA, or any of its officers or employees, for the purpose of obtaining an increase in the design enrollment of Clinton Middle School that it has acknowledged and agreed to herein. The Town of Clinton further acknowledges and agrees that, among other things, the design enrollment, square feet per student space allowance, and total square footage of Clinton Middle School shall be subject to the approval of the MSBA's Board and that the final approval of a proposed project at Clinton Middle School shall be within the sole discretion of the MSBA's Board.

The undersigned, for themselves and the Town of Clinton, hereby certify that they have read and understand the contents of this Design Enrollment Certification and that each of the above statements is true, complete and accurate. The undersigned also hereby certify that they have been duly authorized by the appropriate governmental body to execute this Certification on behalf of the Town of Clinton and to bind the Town of Clinton to its terms.

Michaelfa

Chief Executive Officer

2023

Date

Superintendent of Schools

Duly Authorized Representative of School Committee

ept 01, 2023

Date

Date

QUITCLAIM DEED

TOWN OF CLINTON a Massachusetts municipal corporation, having an address at 242 Church Street, Clinton, Massachusetts 01510 ("Grantor"),

for consideration paid and in full consideration of Ten and 00/100 Dollars (\$10.00), grants and conveys to

NEW ENGLAND POWER COMPANY, a Massachusetts corporation, having an address at 170 Data Drive, Waltham, Massachusetts 02451, (together with its successors and assigns, "Grantee")

WITH QUITCLAIM COVENANTS,

All of Grantor's right, title and interest in and to that certain parcel of land located southerly of West Boylston Road (Route 110) in the Town of Clinton, County of Worcester, Commonwealth of Massachusetts, shown as "PARCEL B" on a plan entitled "PLAN OF LAND, CLINTON MIDDLE SCHOOL, 100 WEST BOYLSTON STREET, CLINTON, MA 01510" prepared by Nitsch Engineering for the Town of Clinton, dated 10-24-23, last revised 01-09-24, recorded with the Worcester District Registry of Deeds (the "Registry") in Plan Book 975, Page 121 (the "ANR Plan"), and being more particularly described on Exhibit A attached hereto and made a part hereof. The Granted Premises constitute a portion of the premises granted to the Grantor (the "1969 Parcel") by deed from The Commonwealth of Massachusetts, acting through its Metropolitan District Commission to the Grantor dated January 9, 1969, and recorded with the Registry in Book 4928, Page 585 (the "1969 Deed").

The Grantor hereby also grants to the Grantee, with quitclaim covenants, the following perpetual rights and easements:

1. From time to time, exclusive of all others, to construct, reconstruct, install, repair, replace, maintain, operate, inspect and patrol, for the transmission of high and low voltage electric energy and for the transmission of intelligence by any means, whether

now existing or hereafter devised, lines of towers or poles or both (any of which may be erected and/or constructed at the same or different times) with wires and cable strung upon and from the same, together with all necessary foundations, anchors, guys, braces, fittings, equipment and appurtenances, including a buried ground wire and such footbridges, causeways and ways of access, if any (collectively, the "Improvements"), as may be reasonably necessary for the convenient construction, reconstruction, installation, repair, replacement, maintenance, operation, inspection and patrolling of the Improvements, in, over, across, upon, under and through two (2) certain strips of land shown as Easement C on the ANR Plan and Easement D on a plan entitled "EASEMENT PLAN, 75 WEST BOYLSTON STREET, CLINTON, MA 01510" prepared by Nitsch Engineering for the Town of Clinton, dated 10-30-23 (collectively, the "Easement Areas"). Easement C is located southerly of West Boylston Road (Route 110) in the Town of Clinton, County of Worcester, Commonwealth of Massachusetts, constituting a portion of the 1969 Parcel and Easement D is located northerly of said West Boylston Road (Route 110) constituting a portion of the premises granted to the Grantor by deed from The Commonwealth of Massachusetts, acting by and through its Division of Capital Asset Management and Maintenance (formerly the Division of Capital Planning and Operations) to the Grantor dated April 23, 1999, and recorded with the Registry in Book 21354, Page 317. The Easement Areas are more particularly described on Exhibit B attached hereto and made a part hereof.

- 2. To pave, excavate and/or change the grade so much thereof as is reasonable, necessary and proper in connection with the exercise of the forgoing rights and easements.
- 3. From time to time, without further payment therefor, to clear and keep cleared by physical, chemical or other means, the Easement Areas of trees, underbrush, buildings, above and below ground structures and other obstructions (the first clearing may be for less than the full width and may be widened from time to time to the full width) and to renew, replace, add to and otherwise change the Improvements and each and every part thereof and all appurtenances thereto and the location thereof within the Easement Areas; and to pass along the Easement Areas to and from the adjoining lands and to pass over the Grantor's adjoining lands to and from the Easement Areas as reasonably required.

The Grantor, for itself and its successors and assigns, hereby covenants and agrees with the Grantee that no act will be permitted within the Easement Areas which is inconsistent with the rights and easements hereby granted; that no buildings or structures will be erected or constructed within the Easement Areas; that no recreational use will be allowed within the Easement Area; and that the present grade or ground level of the Easement Areas will not be changed by excavation or filling. Notwithstanding the foregoing or any other provision of this Deed to the contrary, (i) the Grantee acknowledges that on the date of this Deed certain improvements owned by the Grantor exist within the boundaries of Easement Areas and are shown on the ANR Plan and the Easement Plan (collectively, the "Grantor Improvements"), (ii) the Grantor Improvements may remain, and (iii) the Grantor Improvements may be reconstructed, repaired, replaced, maintained and used from time to time without the consent of the Grantee, provided, however, that (A) any reconstruction or replacement of the Grantor Improvements shall be in-kind and shall not change the present grade or ground level of the Easement Areas, and (B) the Grantor may not add to or expand the footprint of the Grantor Improvements without the prior written consent and approval of the Grantee, which approval shall not be unreasonably withheld, delayed or conditioned.

It is the intention of the Grantor to grant to the Grantee all the rights and easements aforesaid and any and all additional and/or incidental rights and easements needed to construct, reconstruct, install, repair, replace, maintain, operate, inspect and patrol and otherwise change, for the transmission of high and low voltage electric energy and the transmission of intelligence, the Improvements, in, over, across, upon, under and through the Easement Areas. The Grantor hereby agrees to execute, acknowledge and deliver to the Grantee such further deeds and instruments as may be necessary to secure to the Grantee the rights and easements intended to be herein conveyed. It is intended by the parties that the rights and easements granted herein shall be assignable and may be apportioned by the Grantee.

These provisions shall bind and inure to the benefit of the successors and assigns of the respective parties.

It is agreed that the Improvements shall remain the property of the Grantee and that the Grantee shall pay all taxes assessed thereon.

Subject to and together with the benefit of all other easements, encumbrances, covenants, conditions, restrictions and other matters of recorded; provided, however, that the Grantor, for itself and its successors and assigns, hereby covenants and agrees that it shall have the sole obligation to repair and maintain, at its sole cost and expense, the fence located on the Granted Premises and referred to in the second full paragraph on the second page of the 1969 Deed.

[*Remainder of Page Intentionally Left Blank – Signature Page Follows*]

EXECUTED as an instrument under seal this 7th day of February, 2024.

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TOWN OF CLINTON By its Select Board

Matthew H. Kobus Matthew H. Kobus, Chair

Jun K Para Julie Perusse, Vice Chair

Edward J. Devault, Clerk

Sean J. Kerrigan, Member

May R Dukht

Mary R Dickhaut, Member

COMMONWEALTH OF MASSACHUSETTS

Worcester, ss.

On this 7th day of February, 2024, before me, the undersigned notary public, personally appeared Matthew H. Kobus, Julie Perusse, Edward J. Devault, Sean J. Kerrigan, and Mary R. Dickhaut, proved to me through satisfactory evidence of identification, which was photographic identification with signature issued by a federal or state governmental agency, oath or affirmation of a credible witness, personal knowledge of the undersigned, to be the persons whose name are signed on the preceding or attached document(s), and acknowledged to me that they each signed it voluntarily for its stated purpose as Members of the Select Board of the Town of Clinton for and on behalf of the Town of Clinton.



Before me,

Name

Notary Public My commission expires:

EXHIBIT A

LEGAL DESCRIPTION

Parcel B

A parcel of land located southerly of West Boylston Road (Route 110) in the Town of Clinton, County of Worcester, Commonwealth of Massachusetts, shown as "PARCEL B" on a plan entitled "PLAN OF LAND, CLINTON MIDDLE SCHOOL, 100 WEST BOYLSTON STREET, CLINTON, MA 01510" prepared by Nitsch Engineering for the Town of Clinton, dated 10-24-23, last revised 01-09-24 (the "ANR Plan"), recorded with the Worcester District Registry of Deeds in Plan Book 975, Page 121, and more particularly described according to the ANR Plan as follows:

BEGINNING at the Southeasterly corner of Parcel B, said point being located on the northwesterly sideline of Main Street;

THENCE turning and running by land now or formerly of Metropolitan District Commission, N 73°12'19" W, a distance of 1,644.27 feet, to a point;

THENCE turning and running by land of the Town of Clinton, N 53°31'45" E, a distance of 123.94 feet, to a point;

THENCE turning and running by land of said Town of Clinton, S 73°12'19" E, a distance of 956.65 feet, to a point;

THENCE turning and running by Parcel C, S 64°00'31" E, a distance of 621.51 feet, to the POINT OF BEGINNING.

CONTAINING 129,172± square feet or 2.965± acres, according to the ANR Plan.

EXHIBIT B

LEGAL DESCRIPTION

Easement C

A strip of land located southerly of West Boylston Road (Route 110) in the Town of Clinton, County of Worcester, Commonwealth of Massachusetts, shown as "EASEMENT C" on the ANR Plan, and more particularly described according to the ANR Plan as follows:

BEGINNING at the Northwesterly corner of Easement C, said point being located on the Southerly sideline of West Boylston Street (Route 110);

THENCE turning and running by West Boylston Street (Route 110), S 86°00'56" E, a distance of 107.80 feet, to a point;

THENCE turning and running, S 17°56'48" E, a distance of 587.93 feet, to a point at Parcel B;

THENCE turning and running by Parcel B, N 73°12'19" W, a distance of 169.22 feet, to a point;

THENCE turning and running, N 07°56'23" E, a distance of 89.46 feet, to a point;

THENCE turning and running, N 17°56'48" W, a distance of 451.28 feet, to the POINT OF BEGINNING.

CONTAINING 59,439± square feet or 1.364± acres, according to the ANR Plan.

For Grantor's title, see deed from The Commonwealth of Massachusetts, acting through its Metropolitan District Commission to the Grantor dated January 9, 1969, and recorded with the Worcester District Registry of Deeds in Book 4928, Page 585.

Easement D

A strip of land located northerly of West Boylston Road (Route 110) in the Town of Clinton, County of Worcester, Commonwealth of Massachusetts, shown as "EASEMENT D" on a plan entitled "EASEMENT PLAN, 75 WEST BOYLSTON STREET, CLINTON, MA 01510" prepared by Nitsch Engineering for the Town of Clinton, dated 10-30-23 (the "Easement Plan"), recorded with the Worcester District Registry of Deeds in Plan Book 975, Page 116, and more particularly described according to the Easement Plan as follows:

BEGINNING at the Southeasterly corner of Easement D, said point being located on the Northerly sideline of West Boylston Street (Route 110);

THENCE turning and running by West Boylston Street (Route 110), N 86°00'56" W, a distance of 107.80 feet to a point;

THENCE turning and running, N 17°56'48" W, a distance of 776.26 feet, to a point at land now or formerly of Boston and Maine Railroad;

THENCE turning and running by land now or formerly of Boston and Maine Railroad, N 67°54'04" E, a distance of 100.26 feet, to a point;

THENCE turning and running, S 17°56'49" E, a distance of 823.78 feet, to the POINT OF BEGINNING.

CONTAINING 80,000± square feet or 1.836± acres, according to the Easement Plan.

For Grantor's title, see Release Deed from The Commonwealth of Massachusetts, acting by and through its Division of Capital Asset Management and Maintenance (formerly the Division of Capital Planning and Operations) to the Grantor dated April 23, 1999, and recorded with the Worcester District Registry of Deeds in Book 21354, Page 317.

QUITCLAIM DEED

NEW ENGLAND POWER COMPANY, a Massachusetts corporation, having an address at 170 Data Drive, Waltham, Massachusetts 02451 ("Grantor"),

for consideration paid and in full consideration of Ten Dollars (\$10.00), grants and conveys to

TOWN OF CLINTON a Massachusetts municipal corporation, having an address at 242 Church Street, Clinton, Massachusetts 01510,

WITH QUITCLAIM COVENANTS,

a parcel of land located southerly of West Boylston Road (Route 110) in the Town of Clinton, County of Worcester, Commonwealth of Massachusetts, shown as "PARCEL A" on a plan entitled "PLAN OF LAND, CLINTON MIDDLE SCHOOL, 100 WEST BOYLSTON STREET, CLINTON, MA 01510" prepared by Nitsch Engineering for the Town of Clinton, dated 10-24-23, last revised 01-09-24, and being more particularly described on <u>Exhibit A</u> attached hereto and made a part hereof.

Subject to and together with the benefit of all other easements, encumbrances, covenants, conditions, restrictions and other matter of record.

This conveyance does not constitute all or substantially all of the Grantor's assets in the Commonwealth of Massachusetts.

The parcel of land herein conveyed constitutes only a portion of the property, comprised of approximately 3.9 acres of land, conveyed to Grantor and shown on plan recorded with Worcester District Registry of Deeds in Plan Book 233, Page 57.

For Grantor's title, see deed from The Commonwealth of Massachusetts acting through its Metropolitan District Commission to the Grantor dated February 27, 1958, and recorded with the Worcester District Registry of Deeds in Book 3957, Page 51.

EXECUTED as an instrument under seal this $\underbrace{\text{B}}^{\text{T}}$ day of February, 2024.

NEW ENGLAND POWER COMPANY

By: David J. Aho

Authorized Representative

COMMONWEALTH OF MASSACHUSETTS

Middlesex, ss.

On this 2^{+h} day of February, 2024, before me, the undersigned notary public, personally appeared David J. Aho, Authorized Representative of New England Power Company, proved to me through satisfactory evidence of identification, which was photographic identification with signature issued by a federal or state governmental agency, \Box oath or affirmation of a credible witness, \swarrow personal knowledge of the undersigned, to be the person whose name is signed on the preceding or attached document(s), and acknowledged to me that he signed it voluntarily for its stated purpose on behalf of New England Power Company.

Before me,

M. Wah

5-13.202

Name: Notary Public My commission expires:



GRACE G. WALSH NOTARY PUBLIC Commonwealth of Massachusetts My Commission Expires May 13, 2027

EXHIBIT A

LEGAL DESCRIPTION

Parcel A

A parcel of land located southerly of West Boylston Road (Route 110) in the Town of Clinton, County of Worcester, Commonwealth of Massachusetts, shown as "PARCEL A" on a plan entitled "PLAN OF LAND, CLINTON MIDDLE SCHOOL, 100 WEST BOYLSTON STREET, CLINTON, MA 01510" prepared by Nitsch Engineering for the Town of Clinton, dated 10-24-23, last revised 01-09-24 (the "Plan"), recorded with the Worcester District Registry of Deeds in Plan Book 975, Page 121, and more particularly described according to the Plan as follows:

BEGINNING at the Northeasterly corner of Parcel A, said point being located on the Southerly sideline of West Boylston Street (Route 110);

THENCE turning and running, along a curve to the left having a radius of 814.12 feet, a distance of 637.35 feet, to a point;

THENCE turning and running, S 64°00'31" E, a distance of 1,006.12 feet, to a point at Main Street;

THENCE turning and running by Parcel C, N 73°12'19" W, a distance of 625.66 feet, to a point;

THENCE turning and running, N 64°00'31" W, a distance of 388.49 feet, to a point;

THENCE turning and running, along a curve to the right having a radius of 914.12 feet, a distance of 757.97 feet to a point at West Boylston Street (Route 110);

THENCE turning and running by said West Boylston Street (Route 110), S 86°00'56" E, a distance of 107.68 feet, to the POINT OF BEGINNING.

CONTAINING $139,495\pm$ square feet or $3.202\pm$ acres, according to the Plan.



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4.1.3 SCHEMATIC DESIGN PROJECT MANUAL

- A. SD Specifications Table of Contents
 - (refer to complete separate bound set)
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4.1.3 SD PROJECT MANUAL

A. SD Specifications TOC (refer to complete separate bound set)

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4.1.3 SD PROJECT MANUAL

B. Proprietary Items

MSBA Module 4

Schematic Design

PROPRIETARY ITEMS

The following is a list of proposed proprietary items for Clinton Middle School along with reasons for their use. These proprietary items were approved by the Permanent School Building Committee in a public meeting held on 2/06/24 and include the following:

- 1. Network Switches: to be manufactured by Extreme Networks for the following reasons:
 - a. Maintains consistency with similar equipment that is the standard for school networking, ensuring the new systems work seamlessly with existing equipment currently installed within the Clinton Public School District.
 - b. Enhances and streamlines the management of data at various sites, because a single manufacturer's management system can be used by administrators. Multiple manufacturers would require multiple management platforms that increase the complexity and burden on network administrators, requiring additional training and time to support.
 - c. Reduces the overall cost of ongoing support and maintenance from running different systems.
 - d. Reduces the cost and complexity of support by resellers when technical and warranty related issues arise.
 - e. Provides the highest level of coordination with other network equipment installed by the District.
 - f. The manufacturer produces tier level one network equipment for public schools, which is widely used by districts statewide. The equipment is supported by multiple and reliable resellers in Massachusetts that compete for this business.
- 2. Wireless Access System: to be manufactured by Cisco Meraki. Same reasons as network switches.
- 3. Telephone System: to be manufactured by Mitel for the following reasons:
 - a. Maintains consistency with equipment already installed as a standard in the other schools, ensuring that the telephone systems can be networked together. This is only possible if systems are manufactured by the same company. Networked telephone systems provide the opportunity for significant savings on recuring telephone service charges, which are only available when services are shared between like systems.





Schematic Design

- b. Enhances and streamlines the management of systems District-wide. One system to train on and support. Multiple manufacturers would require learning two systems rather than a single system, increasing the complexity and burden on system administrators, requiring additional time to support.
- c. Reduces the overall cost of ongoing support and maintenance from running different systems.
- d. Reduces the cost and complexity of support by resellers when technical and warranty related issues arise.
- e. The manufacturer Mitel produces tier level one telephone systems equipment for public schools, which is widely used by school districts statewide. The equipment is supported by multiple and reliable resellers in Massachusetts that compete for this business.
- 4. Video Intercom and Door Control System: to be manufactured by Verkada for the following reasons:
 - a. Maintains consistency with equipment that is currently being purchased and deployed in the school district.
 - b. Enhances and streamlines the management of security data at various sites within the District, because a single manufacture's management system can be used by administrators. Multiple manufacturers would require multiple management platforms that increase the complexity and burden on security system administrators, requiring additional training and time to support.
 - c. Reduces the overall cost of ongoing support and maintenance from running different systems.
 - d. Provides the highest level of coordination with other security system equipment installed by the District.
 - e. The manufacturer Verkada produces tier level one cloud-based security system equipment and applications that are supported by multiple and reliable resellers in Massachusetts that compete for this business.





4.1.4 SCHEMATIC DESIGN DRAWINGS

A. List of SD Drawings (refer to complete separate bound set)

4.1.4 SD DRAWINGS

A. SD List of Drawings (refer to complete separate bound set)

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