

BID
ADDENDUM NO. 2
TO
CONTRACT DOCUMENTS
AND
TECHNICAL SPECIFICATIONS
FOR
2019 BOND REFERENDUM
CAPITAL IMPROVEMENTS
AT
CHATSWORTH AVENUE SCHOOL
NYSED #66-07-01-03-0-005-020
BID # 19/20-MUFSD-010

Mamaroneck Union Free School District
1000 West Boston Post Road
Mamaroneck, New York 10543

Telephone No. 914-220-3040

Contact: Ms. Sylvia Wallach
Assistant Superintendent for Business

LAN Job #4.1092.72.03
January 7, 2021

Michael J. McGovern, RA
NYS #022257

1.0 General: The original contract documents dated **January 10, 2020** issued to the New York State Education Department (NYSED) for this project are hereby amended as noted in this NYSED addendum which shall become part of said contract documents, as if originally included therein. Bidders must acknowledge receipt of this NYSED addendum and all other addenda on the proposal form when submitting proposals. In case any bidder fails to acknowledge receipt of addenda, his proposal will nevertheless be construed as though it has been received, acknowledged, and the submission of his proposal shall constitute acknowledgment by the bidder of the receipt of same.

This is to advise all prospective bidders that this addendum has been issued to all bidders and that it contains a change in the contract documents.

Sealed bid proposals shall be received by **2:00 p.m. prevailing time on Thursday, January 14, 2021**, by mail or in person at the Boston Post Road main entrance, at the Mamaroneck Union Free School District Office, 1000 West Boston Post Road, NY 10543. All bids must be received by 2:00p.m. prevailing time. **Staff will be available to accept hand delivered bids between the hours of 8:00 a.m. and 2:00 p.m. on Thursday, January 14, 2021. Due to the current COVID-19 pandemic, the District buildings are restricted, and non-essential individuals will not be permitted inside. Bids will be publicly opened and read aloud at 3:30p.m. via livestream on Google Meet at the following URL Address: meet.google.com/xtu-eoaj-bjd using computer audio or call in audio via phone: [+1 442-600-5525](tel:+14426005525) PIN #: 147 172 790#.**

2.0 Amendments to Specifications:

Section No.	Page No.	Addendum Requirements
00 41 02	1d	<p>SECTION 004102 - BID FORM - Contract #3d – Electrical</p> <p>An Allowance (3d) for \$25,000 has been added for the following:</p> <p><i>Provide designated allowance to furnish and install standby generator(s) along with all temporary wiring, connections and panels. The allowance shall also be used towards fuel, maintenance, security, etc. to operate the standby generator(s) continuously until the permanent power is resumed. If necessary, the allowance may also be used towards other misc. expenses as a result of coordination with the Utility Company including, but not limited to, additional trenching and backfill, and installation of new conduits.</i></p>
01 12 00		<p>The following section was revised as follows:</p> <p>[01 12 00 Pg. 6 of 27 – IV. Construction Milestones “Chatsworth Avenue Elementary School”] – (Paragraph #1): This building will include a new five stop elevator.</p> <p>[01 12 00 Pg. 9 of 27 – VI. SAFETY/LOGISTICS/STORAGE] – (Item #18): Site Logistics Plans SL-1, SL-2 and SL-3 can be found at the end of this specification section.</p>
10 14 19	All	Specification Section was updated per Questions in Section 4.

3.0 Amendments to Drawings:

Drawing No.	Addendum Requirements
A1.40	Demolition Key Note #5 has been revised to reflect EC's responsibility associated with the removal of the Unit Ventilators by the MC. Box Note revised to reflect EC's responsibilities for disconnections associated with the floor removal.
A5.40	Drawing revised to further clarify scope of work by separate prime contractors.
A7.00	Dimensions have been added to sheet A7.00 for clarity.
F1.01	Key Note #1 to be revised and shall read as follows: <i>Refer to Drawings A1.20 and A1.21 for work in this Area.</i>
F1.02	Key Note #1 to be revised and shall read as follows: <i>Refer to Drawings A2.20 and A5.20 for work in this Area.</i>
P2.01, P2.02 & P2.03	General Construction Note #8 to be revised and shall read as follows: <i>8. GC is responsible to remove exist. ceiling/grids per drawing A5.40 except those required to be removed by the abatement contractor. EC is responsible to remove existing lighting fixtures and provide new lighting fixtures per drawing E5.01. EC is also responsible to remove & reinstall exist. fire & communication devices, etc. to accommodate plumbing installation.</i>
M0.01	General Construction Notes have been updated to further clarify work for each trade.
M1.02	Keynote tags originally called out as #14 have been changed to #16. There is no Keynote #14 on this sheet.

4.0 Requests for Information (RFIs):

No.	Question / Response
1	<p>Question: What contract is responsible for the removal of ceilings to gain access to the ACM piping depicted on drawing HP1.01?</p> <p>Response: When there are multiple layers of ceilings that require removal to access ACM piping, it is the responsibility of the Asbestos Abatement Contractor to remove any ceiling material that is immediately below any Asbestos-containing Pipe Insulation/Mudded Fittings in containment and disposed of as Asbestos Waste. Any other ceiling material that is scheduled for removal AND does not have any Asbestos containing Pipe Insulation/Mudded Fittings immediately above it, shall be the responsibility of the General Contractor.</p>

4.0 Requests for Information (RFIs) (Cont.):

No.	Question / Response
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|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2 | <p>Question: Demo note 49 says to remove the plaster ceiling above ACT where applicable. On A1.11 the demo note is shown only in the corners of some rooms, does this mean the plaster ceiling extends above all of the ceilings in those rooms or is it just in the corners?</p> <p>Response: When note #49 is shown with a semi-circle cut line in the corner of a room, it is to represent that there is a ceiling above typical for the entire room. Per note #49 on A1.00, "Assume plaster to be continuous above suspended ceiling..."</p> |
| 3 | <p>Question: Detail 5 on Drawing E5.01 shows new lighting fixtures in a new ceiling in the First Floor Corridor. There is no demo lighting drawing for this area, who is responsible for the removal of the lighting and devices in this ceiling?</p> <p>Response: Demolition of lighting and ceiling mounted electrical devices for this corridor are called out to be removed by the Electrical Contractor on Drawing A5.40 (revised per this addendum). In addition, Electrical Demolition Notes on drawing E0.01, "The Electrical Contractor shall refer to the A1.XX series, A5.40, M1.XX Series, and P1.XX series of drawings for additional scope. Electrical Contractor is responsible for all electrical demolition requirements on those plans.</p> |
| 4 | <p>Question: Is there additional scope of work (demolition or proposed) for the Mechanical, Plumbing and Electrical Contracts shown on the other series of drawings?</p> <p>Response: Yes, there is some additional scope called out for other trades on the architectural drawings. All trades are responsible to review all drawings, not just the series they are bidding on. Please take specific note of Demolition key notes on drawing A1.00 and Construction key notes on drawing A2.00.</p> |
| 5 | <p>Question: Specification Section 101419: Please provide the size for the Stainless-steel dedication plaque, a drawing and elevations. (Spec, page 5 B-6).</p> <p>Response: There is no stainless-steel dedication plaque in the project. This section has been updated per this addendum.</p> |
| 6 | <p>Question: Specification Section 101419: There are no directories or bulletin boards on the signage schedule A6.20. Are any required? Please provide drawings. (Specs page 5 B-7)</p> <p>Response: There are no directories or bulletin boards in the project. This section has been updated per this addendum.</p> |
| 7 | <p>Question: Specification Section 101419: There are no vinyl Die Cut graphics on signage schedule A6.20. Are any required? Please provide drawings. (Spec, page 2, 1.04/#2).</p> <p>Response: There are no vinyl Die Cut graphics in the project. This section has been updated per this addendum.</p> |
| 8 | <p>Question: Specification Section 101419: What Max OCC are required and for what room. Please provide qty. (Drawing A6.20)</p> <p>Response: There is one room with Signage Set 5 requiring a maximum occupancy sign noted on Drawing A6.20.</p> |

4.0 Requests for Information (RFIs) (Cont.):

No.	Question / Response	
9	Question:	Specification Section 101419: Are any Way finding signs and if so, how many and the size. There are none on the signage schedule A6.20 but are mentioned in the spec, page 3 1.04-1.
	Response:	There are no way finding signs in the project. This section has been updated per this addendum.
10	Question:	Mechanical bid form does not include alternate per dwg M2.05 - FLOOR REPLACEMENT MECHANICAL PROPOSED WORK which refers to dwgs A1.40 & A2.40 and shown as an alternate.
	Response:	The GC Floor Replacement Add Alternate 3a-1 is for the Nurse's office floor replacement only. The mechanical, plumbing and electrical work associated with the removal and reinstallation of the two (2) unit ventilators in this room should be included in the base bid price for the Mechanical, Electrical and Plumbing Contract.
11	Question:	Currently the specs call for our subcontractors to have the same \$10MM umbrella as the GC, this is a lot in terms of the insurance policy and most of the subcontractors out there will not be able to meet your requirements. Could you please let us know if it is ok for the GC to carry the \$10MM policy and the subs put in a lower amount for their policy?
	Response:	Per the Districts insurance carrier: We recommend the subs have the same insurances as the GC – a contractor is a contractor. If the contract is under \$1,000,000 then the umbrella needs to be \$5,000,000
12	Question:	Food Service plan notes says that food service equipment is going to be supplied and installed by another contractor and not part of this bid however notes on Work Area B on A2.00 does not mention this and notes as if this work is part of this bid, please clarify?
	Response:	Food Service equipment is supplied and installed by another contract. This was clarified in Addendum #1 and the applicable notes on A2.00 were updated.
13	Question:	Fire Sprinkler work is under plumbing contractor, correct?
	Response:	Yes, please refer to specification Section 010101 – Multiple Contract Summary.
14	Question:	Some notes indicate that trench made by electrician is to be filled by GC before floor finishing, but we are assuming all trades are responsible from their own openings and trenching, correct?
	Response:	No, please refer to the Special Provisions Specification Section 011200 for information regarding responsibility of each prime contractor and required coordination.
15	Question:	Could you please point out where the landscaping is shown on the civil drawings? I see the spec section but nothing on the plans.
	Response:	There is no specific landscaping proposed so that spec section is included for repairing any areas disturbed during construction that may include landscaping. See Soil Erosion & Sediment Control Plan, Sheet SC.01 for reference.

4.0 Requests for Information (RFIs) (Cont.):

No. Question / Response

- 16 Question: On the demo plans in the cafeteria on A1.21 Note 25 is in the corner. Does this mean there are 2 layers of gypsum board in the cafeteria?
- Response: Note 25 represents the GWB soffit around the perimeter of the A.C.T. Ceiling in the cafeteria spaces. There is no ceiling above the soffit and A.C.T., it is open to the structure above.
- 17 Question: We cannot find the drawing that indicates where detail G1 on A8.02 is located, could you please tell us where this detail is taking place?
- Response: Detail G1 on Drawing A8.02 was a ceiling that was originally being considered for the stair ceiling replacement in the first floor corridor of the Forest park Building (Work area "L") shown on drawing A5.40. This ceiling was then changed to the 2 hour ceiling as shown on detail 5/A5.40 therefore ceiling type G1 is no longer applicable to the project.
- 18 Question: Who is the FA Vendor for the Chatsworth School?
- Response: The district fire alarm vendor is Open Systems Metro. The contact is Charlie Magnotta, 914-241-0057.
- 19 Question: 5/A2.50- figuring once the gypsum soffit goes in- the existing room has an exposed ceiling- so nothing will have to be patched.
- Response: The Lobby ceiling is existing to remain. No work is proposed to be done to this ceiling beyond what is indicated on the drawings.
- 20 Question: Windows Install- I am thinking you have someone installing and we don't need to look at- correct?
- Response: Per the drawings and specifications, new windows are to be provided and installed by the General Contractor.
- 21 Question: Roof blocking- do you want us to include in our #- or is the roofer doing?
- Response: The General Contractor is responsible for the roofing scope of work, including all required blocking. Therefore, it should be in the base bid price for the GC contract.
- 22 Question: Sheet S2.03, calls out a ramp- do you know approximately how long that ramp comes out past the landing
- Response: Refer to architectural drawing A2.04.
- 23 Question: The classroom floor sleepers and subfloor- sheet A2.40- that is by others- correct?
- Response: Per the detail and the notes, the sleepers are existing to remain, and the plywood is new and part of the GC Contract.
- 24 Question: There are some cafeteria elevations- are we to figure all walls that have tile- but NO elevation is shown that it is at 5'? How about the other floors, also shown on that sheet 3/A7.00 & 4/A7.00.
- Response: Dimensions have been added to revised sheet A7.00 for clarity. (to be sent out in addendum #2 this afternoon).

4.0 Requests for Information (RFIs) (Cont.):

No.	Question / Response
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| 25 | Question: On the Mechanical drawings there are references to saw cutting and core drilling being by the General Contractor. Is this work by the Mechanical Contractor or the General Contractor? |
| | Response: Please refer to the Special Provisions Specification Section 011200 for information regarding responsibility of each prime contractor and required coordination. |

5.0 Clarifications:

No.

- | | |
|---|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1 | Kitchen Equipment Plumbing Requirements on P3.01 notes for the Plumbing "subcontractor" to install all piping. It should be clarified that this is the "Plumbing Prime Contractor". |
| 2 | All lintels called out on Mechanical plans are the responsibility of the General Contractor. Refer to the Lintel Schedule and Details on Drawing S6.04. |
| 3 | All lintels shown on plans, sections and elevations shall be the responsibility of the General Contractor. If no Lintel numbers are shown, please refer to Lintel Schedule and Details on Drawing S6.04 for any loose lintel requirements. |

6.0 Substitution Requests:

Specification Section No.

- | | | | |
|----------|-----------------------|-----------------|-----------------------------|
| 10 11 10 | Visual Display Boards | Approved Equal: | ASI Visual Display Products |
| 10 14 19 | Interior Signs | Approved Equal: | Best Sign Systems |

END OF ADDENDUM NO. 2

- Attachments: #1 – Electrical Bid Form 3d – Section 00 410 02
#2 – Specification Section 01 12 00
#3 – Site Logistics Drawings SL-1, SL-2, SL-3
#4 – Specification Section 10 14 19
#5 – Drawing A1.40
#6 – Drawing A5.40
#7 – Drawing A7.00
#8 – Drawing M0.01
#9 – Drawing M1.02

SECTION 004102 - BID FORM
MAMARONECK UFSD
2019 Bond Referendum
Chatsworth Ave. School
Contract #3d - Electrical
State Plan #66-07-01-03-0-005-020

BUSINESS NAME:	
ADDRESS:	
TELEPHONE NO.:	
FAX NO.:	
CONTRACT #3d (Elec): Base Bid	
\$	(Subtotal)
CONTRACT #3d (Elec): Allowance	
\$	25,000.00
<i>Provide designated allowance to furnish and install standby generator(s) along with all temporary wiring, connections and panels. The allowance shall also be used towards fuel, maintenance, security, etc. to operate the standby generator(s) continuously until the permanent power is resumed. If necessary, the allowance may also be used towards other misc. expenses as a result of coordination with the Utility Company including, but not limited to, additional trenching and backfill, and installation of new conduits.</i>	
CONTRACT #3d (Electrical): Combined Base Bid (Sum)	
\$	(Total)
Acknowledgement by Bidder – Receipt of Addendum (please initial all boxes to verify)	
No.1	No.2
No.3	No.4
No.5	No.6
No.7	No.8
REFER TO PAGE SECTION 004100 FOR A COMPLETE LIST OF FORMS TO BE SUBMITTED WITH THE BID.	
NOTES:	
<p>1). Method of Award: Award of Contract may be made to the Lowest Responsible Bidder on the basis of Base Bid only, it may be made to that responsible bidder whose Base Bid therefor is the lowest and responsive to the bid specifications.</p> <p>The District reserves the right to award a contract to the lowest responsible bidder providing the required security within forty-five (45) days of the date opening of the bids. Bidders may not withdraw their respective bids for a period of forty-five (45) days after the bid opening date, unless otherwise authorized by law.</p> <p>The District further reserves the right to reject bids that contain conditions, omissions, exceptions or modifications, or in its sole discretion to waive any irregularities in the bids, or to reject any or all bids or to accept any bid which in the opinion of the District is in its best interest.</p> <p>2). On acceptance of the bid for the work, the undersigned hereby binds himself/herself/themselves to enter into a written contract with the Board of Education within ten (10) days of the notice of award, and to comply in all respects with the requirements and provisions set forth in the Bid Specifications, including but not limited to the Bid Instructions and the General Conditions in relation to security for the faithful performance of the terms of said contract.</p>	
Signature:	
Printed Name of Person Signing:	
Title of Person Signing:	

SPECIAL PROVISIONS

These Special Provisions are in addition to the Plans, Specifications and the other Contract Documents and shall be part of this Agreement between the Owner and the Contractor. All references to "This Prime Contractor", "This Contractor" or "Contractor" refer to the **General Contractor, Plumbing Contractor, Mechanical Contractor** and **Electrical Contractor**. In cases of contradictions, the most stringent Provision shall govern.

General Requirements for Each Prime Contractor

I. General

1. All dates, durations, etc. defined herein shall be in business days.
2. Except for the basic building permit, each Prime Contractor's price shall include all fees and other costs for securing and maintaining (by the Prime Contractors or their subcontractors) for the life of the job; all permits, PE licenses, connection fees, inspections, etc., applicable to, or customarily secured for the Work. This provision includes any applications and/or permits to be issued by utility companies in the name of the Prime Contractor, or the Owner, as required for the Work. Originals of all permits are to be issued in the name of the Prime Contractor as required for the Work. The Prime Contractor shall furnish the Construction Manager with original copies of all permits prior to the commencement of the Work, and, shall prominently display a copy of all permits at a location agreed to with the Construction Manager.
3. One week after Notice to Proceed (NTP), each Prime Contractor shall provide two copies of a video taped recording of all existing conditions to the Construction Manager. This taping shall provide a record of all-existing buildings, grounds, exterior conditions and interior conditions. The Contractor shall schedule a representative of both the Owner and the Construction Manager to be present at this taping. In the absence of this record, the Prime Contractor shall be responsible for paying the costs associated with any and all repairs or replacements of existing materials and/ or conditions that were damaged in an area where the Prime Contractor is working or has worked, as may be deemed necessary by the Owner or the Construction Manager.
4. Each Prime Contractor is responsible for providing the required mock-ups defined by the Contract Documents out of sequence as needed by the Architect.
5. Each Prime Contractor is responsible for providing all required Engineered material calculations as defined by the contract documents.
6. Each Prime Contractor shall provide drinking water for his own employees.
7. On Site Communications. Each Prime Contractor shall provide, or otherwise see that, the project manager, or site managers, and/or responsible workers of each Prime Contractor and major subcontractor are equipped with cellular phones for the purpose of staying in contact with for the Construction Manager.

8. Each Prime Contractor shall include in his base price the cost of all rigging and equipment required for the performance and installation of the Work.
9. Each bidder who is awarded a contract must perform its work in compliance with all applicable CDC, OSHA and New York State protocols related to the COVID-19 pandemic, including social distancing, cleaning and disinfection protocols. Each bidder who is awarded a contract must ensure the individuals and entities retained by it to perform work comply with all applicable CDC, OSHA and New York State protocols related to the COVID-19 pandemic. Each bidder who is awarded a contract will be responsible to ensure the safety of those retained by the individuals and entities retained by it to perform its contract obligations and will be responsible for the means and the methods utilized to perform the Work. Each bidder who is awarded a contract will be required to cooperate with other contractors engaged by the School District/Owner in providing access to construction areas at the Project site while maintaining compliance with all applicable CDC, OSHA and New York State protocols related to the COVID-19 pandemic.

Any fines imposed or incurred for violation(s) of the Executive Orders of the Governor of New York State related to the COVID-19 pandemic as well as for violation(s) of all applicable CDC, OSHA and New York State protocols related to the COVID-19 pandemic will be the sole responsibility of the bidder awarded a contract whose conduct caused the violation(s).

Each prime contractor must implement and follow all NYS guidelines and regulations regarding COVID-19. Including but not limited to hand washing/sanitizing stations, disinfecting, social distancing, contact tracing logs, etc... COVID-19 protocols, policy and procedures must be detailed and included in each prime contractor's safety manual and logistics plan and is to be submitted to the construction manager. This requirement extends to all subcontractors of the prime contractor.

II. Schedule

1. All Contractors are to recognize that the Project Schedule is of critical importance to the Owner. All aspects of construction must reflect a 'time is of the essence' construction strategy. The attached 'Bid Schedules' serves as a guide of critical milestone dates to the Project. Failure to meet intermediate milestone dates will jeopardize the overall Project Schedule. This failure will mandate Contractor(s) to, increase staff, work overtime, or use other means to recover time, at the costs of those Contractor(s) responsible for such delays. In addition, all costs due to delays in completion of the Work, which require additional Custodial Overtime, Construction Management services, Architectural services, and Engineering services beyond the Work duration in the Bid Schedule, shall be borne by Contractor(s) responsible for delays.
2. Each contractor, prior to being awarded the contract shall prepare and submit a Preliminary Master Project Schedule for their Work. **Within (3) weeks of NTP all Prime Contractors will provide a coordinated Draft master schedule.** Each Prime's Project Schedule are to reflect all requirements for submittals, material and equipment procurement, material stockpiling, setting up Contractor's staging area and surveying of existing conditions. These Schedules, reflecting the critical milestone dates established by the attached 'Bid Schedule', are to be coordinated and shall be inclusive of other

Prime Contractor's activity. The "Final" agreed upon overall schedule of work shall be developed and maintained by the Prime Contractor for General Construction in conjunction with the Construction Manager utilizing each Prime Contractor's Preliminary and updated Schedule(s). Specific relationships between Contractors, sequencing of activities, phasing, and critical "ties" of coordinated Work must be detailed on the Project Schedule. All Contractors shall utilize "Sure Track Project Manager 3.0-" as produced by Primavera Systems, Inc., -or- equal platform producing Gant Style Scheduling.

3. All Prime Contractors shall review the completed "Final" detailed construction schedule and acknowledge their acceptance of this schedule by signing a copy to be kept on record by the Construction Manager. This agreed upon schedule must incorporate all milestone dates and shall be established within five (5) weeks of Notice to Proceed.
4. The Prime Contractor for General Construction shall update the detailed construction schedule with the Construction Manager and issue copies to the other Prime Contractors, the Owner, Construction Manager, and the Architect monthly. Each Prime Contractor shall provide the Prime Contractor for General Construction with all information necessary to provide these updates.
5. Each Prime Contractor is to submit a schedule of projected fabrication on long lead items (items requiring four weeks and over to fabricate) three weeks after Notice to Proceed. Progress/Status reports on fabrication to be submitted to the Construction Manager every two weeks. 'Rate of Change' chart and marked up shop drawings to be included in these reports.
6. The Prime Contractors shall be responsible for coordinating and expediting their fabrication and delivery schedules and keeping the Construction Manager informed as to their progress and their anticipated ability to stay on schedule. Should it become necessary (in the opinion of the Construction Manager) to supplement the Prime Contractor's expediting efforts in order to maintain job progress, the Construction Manager may elect to charge all costs incurred to said Prime Contractor.
7. In the event that Owner makes special arrangements to open a building at the request of a Contractor and the Contractor does not show, the Prime Contractor shall pay the Owner all costs incurred. All parties agree that any action taken to enforce this requirement shall not be construed by any Prime Contractor or its subcontractors/suppliers, as a reason for a claim (for either time or money) for delay to the Work or to the Prime Contractor, its subcontractors, or suppliers.
8. The Owner shall take partial occupancy of the building additions and renovated spaces in accordance with the dates established by the Bid Schedule and the Special Provisions. The Contractors shall perform all Work necessary to maintain the Owner's move-in and occupancy schedule.
9. The Contractors shall include in their base price, all out of sequence Work and any Work required to be performed during overtime hours or non-working hours necessary to maintain the Master Schedule, the Prime Contractors' project schedule, or, the Owner's move-in schedule.

III. Submittal Milestone Requirements

Submittal Priorities

The following submittal dates (in business days) are critical to allow for proper fabrication timeframes to ensure timely completion of the project to meet the attached bid schedule. A complete listing of all submittal requirements is located in "Section 01300 Submissions", which shall be accompanied by each division's specific submittal requirements.

Major General Construction Submittals

Scaffolding and/or Stair tower-(may require PE Stamp)	15 days from Notice to Proceed
Bracing/Shoring-(may require PE Stamp)	15 days from Notice to Proceed
Foundation Shop Drawings	15 days from Notice to Proceed
Rebar/Reinforcing Shop Drawings	15 days from Notice to Proceed
Structural Steel/Decking	15 days from Notice to Proceed
Masonry Submittals/Shop Drawings	15 days from Notice to Proceed
Stormwater/Sanitary	15 days from Notice to Proceed
Doors/Hardware	15 days from Notice to Proceed
Windows/Openings	15 days from Notice to Proceed
Waterproofing	15 days from Notice to Proceed
Vertical Transportation (Elevators)	15 days from Notice to Proceed
Louvers	15 days from Notice to Proceed
Wood Flooring	15 days from Notice to Proceed
Interior Finishes	20 days from Notice to Proceed
Casework	20 days from Notice to Proceed
All remaining Submittals with-in	20 days from Notice to Proceed

Major Site General Construction

Asphalt Pavement and finish surfaces	15 Days after Notice to Proceed
Concrete curbs and slabs	15 Days after Notice to Proceed
All remaining Submittals with-in	20 days from Notice to Proceed

Major Roofing Construction Submittals

Roofing/Tapered Shop Drawings	10 days from Notice to Proceed
Roofing	10 days from Notice to Proceed
Mechanical Curbs	10 days from Notice to Proceed
Misc. Structural Steel	15 days from Notice to Proceed
All remaining Submittal with-in	20 days from Notice to Proceed

Major Plumbing Equipment

Plumbing Equipment	15 days from Notice to Proceed
Plumbing Fixtures	15 days from Notice to Proceed
All remaining Submittals with-in	20 days from Notice to Proceed

Major HVAC Equipment

Duct Work	15 days from Notice to Proceed
Equipment	20 days from Notice to Proceed
Controls	20 days from Notice to Proceed
Hot/Chilled Piping and Enclosures	20 days from Notice to Proceed
All remaining Submittals with-in	20 days from Notice to Proceed

Major Electrical Equipment

Service Equipment	15 days from Notice to Proceed
Fire Alarm	15 days from Notice to Proceed
Public Address/Intercom	15 days from Notice to Proceed
Light Fixtures	15 days from Notice to Proceed
All remaining Submittal with-in	20 days from Notice to Proceed

IV. Construction Milestones

All Prime Contractors

Special consideration should be made to the requirements of the project bid schedule attached in the Specifications. Prime Contractors will be required to man each contract to meet the milestone dates indicated below and/or in the contract bid schedule. All costs should be included in the bid for working multiple shifts, nights, weekends and holidays as necessary to complete each phase of the project.

Time frames indicated, show milestone dates required to be met by all Prime Contractors. These areas, once completed, will be punch-listed and given partial occupancy for the Owner to occupy. Occupying these areas is critical to the Owner. If said dates are not met Liquidated damages may be assessed and back-charged to the responsible Contractor.

KEY MILESTONE DATES:

Chatsworth Ave. Elementary School

CAFETERIA & KITCHEN RENOVATION

- Construction Start: **March 1, 2021** | Substantial Completion: **July 31, 2021**
- Sign Off By WCDOH: **July 31, 2021**

LIBRARY RENOVATION

- Construction Start: **March 1, 2021** | Substantial Completion: **July 31, 2021**

NEW ELEVATOR ADDITION

- Construction Start: **June 29, 2021** | Substantial Completion: **December 31, 2021**

WOOD FLOORING REPLACEMENTS

- Construction Start: **June 29, 2021** | Substantial Completion: **August 20, 2021**

DOMESTIC WATER PIPING REPLACEMENT

- Construction Start: **June 29, 2021** | Substantial Completion: **August 25, 2021**

AUDITORIUM HVAC

- Construction Start: **June 29, 2021** | Substantial Completion: **December 31, 2021**
- *Crane Pick, Dunnage, Duct-work In occupied Academic Spaces by: **August 30th 2021***

Chatsworth Elementary School

This building will include a new five stop elevator. The staging for this project will be adjacent to the new elevator addition, on the Chatsworth Avenue side of the building. The new addition will commence construction at the end of June 2021, being substantially complete for the return of the winter/holiday break in December 2021. The main structure will need to be finished prior to the start of school, as crane picks and structural operations over occupied spaces during the normal business hours after August will not be permitted. All structural work or crane picks taking place past the summer recess, will be required to happen after- hours, on holidays or weekends at no additional cost to the Owner. The new addition will also include a new hallway that will be constructed on top of an existing portion of the building. All structural work (Steel, Masonry, Roofing) for the new hallway will need to occur during the summer recess. Light work (non-structural bearing) will be able to commence in the hallway during the academic year, in coordination with the CM and District.

The building will undergo a large classroom floor replacement program which will commence immediately after school dismisses for summer recess, and must be complete before the return of student in September. **The Prime Flooring Contractor performing the work will only be allowed to remove as much wood flooring that can be replaced within a 72-hr period.** Coordination with the CM/Owner is critical to ensure the District prepare these rooms for the new school year.

The Chatsworth Library and Cafeteria will undergo renovations during the spring and summer 2021, taking advantage of an early start for both spaces, which will require work to be after-hours until the start of summer recess. The Cafeteria must be complete and signed-off by the Westchester Department of Health, **no later than July 30, 2021**. Sign off by WCDOH is solely dependent of each trade finishing their work on-time.

V. SCHOOL OPERATIONS & CONTRACTOR WORK HOURS

This project will affect many areas, which in some cases will remain in operation during construction.

All contract work being performed **before and after the summer recess**, during school session, will need to be perform after-hours (3:00pm-11:00pm). The contractor is responsible for abiding by the local sound ordinance for construction activities, and will be responsible for any fines they may incur if not followed.

All contract work occurring **over the summer recess**, outside of school session, may be performed between during the hours of 7:00am and 4:00pm. Any other contract work effecting the operation of the school, at any point over the project schedule, must be performed on an after-hours schedule, weekends or school holidays.

Each Prime Contractor may work Saturday & Sundays to make up for lost time (Saturday/Sunday work will be required if necessary to meet deadline) with prior approval from the Owner and after the Contractor has verified allowable working hours by town ordinance. If any Prime Contractor must work on either a Saturday, Sunday or a Holiday, in order to make up time that has been lost due to the same contractor, that Contractor will be responsible to reimburse the District for any custodial overtime costs.

Due to extreme traffic congestion associated with student car and bus transportation, deliveries to any area of the project WILL NOT be allowed during school days from

Chatsworth: 8:00 a.m. to 9:00 a.m. and 2:30 p.m. to 3:30 p.m.

All Contractors will provide in their base bid (5) five “black out days”, per school year, to the construction schedule where no work can take place due to testing or any other discretion of the Owner. These dates will be determined by the District and have been incorporated into the milestone dates indicated in the attached bid schedule.

VI. SAFETY / LOGISTICS/STORAGE

1. Two weeks after the receipt of the Notice to Proceed, the Prime Contractor for General Construction shall provide a Site Safety/Logistics Plan to the Construction Manager. The site logistics plan should minimally include locations of the eight-foot high temporary fence, traffic plans for deliveries and removals, refuse container locations, crane locations, pick locations, boom radius, and lift locations. This plan shall also show the location of all staging and storage areas, non-rated and fire-rated partitions used to separate construction and school areas, made with plywood and/or gypsum wallboard, etc. The logistical information represented by the construction documents shall serve as a minimal guide.
2. Each prime contractor is to submit their corporate safety policy (2) weeks after notice to proceed. Plan to minimally meet OSHA standards. Each Prime Contractor shall make the participation of their subcontractors in this program mandatory. These Safety Programs should be a detailed Company Policy defining the specifics as to how a safe work environment shall be maintained
3. Each Prime Contractor and Sub Contractors shall schedule weekly safety meetings (Job Site Safety Talks) and submit meeting minutes indicating attendees and topics to the Construction Manager.
4. Each Prime Contractor is to identify in writing to the Construction Manager their “OSHA Competent Person Regarding Safety” Definition. "Competent person" means one who is capable of identifying existing and predictable hazards in the surroundings or working conditions which are unsanitary, hazardous, or dangerous to employees, and who has authorization to take prompt corrective measures to eliminate them.
5. All flagmen required for deliveries to the site are to be furnished by the Prime Contractor responsible for the delivery. Any and all deliveries crossing the site or student traffic areas shall be escorted by flagmen. All flagmen shall wear orange vests. All deliveries shall be scheduled and coordinated with the Construction Manager and the Owner. Delivery blackout periods for bus traffic interference shall be established with the Construction Manager.

6. Smoking, firearms, alcoholic beverages, and indecent photography are expressly prohibited on all school properties. All persons representing Contractors, subcontractors or suppliers shall wear shirts, long pants and other proper attire while on school property. All persons representing Contractors, subcontractors or suppliers shall conduct themselves in a professional manner consistent with the rules and policies of The School District, and the New York State Education Department while on school property or otherwise representing this project.
7. Each Prime Contractor will ensure that all their employees, while on school property, will wear hard hats, high visibility vests, and ID badges at all times. Anyone on site without this safety gear will be escorted off school property.
8. Each Prime Contractor will ensure that every employee working on this project has completed a 10-hour OSHA training course. Any worker that cannot present a 10-hour OASHA safety-training card will be escorted off the property.
9. Food truck vendors for Construction Workers will only be allowed on school property with prior authorization from the School District. The District may allow or discontinue food vendor truck service at any time for any reason.
10. **Identification Badges**. Each Prime Contractor will provide an ID badge for each of their field personnel prior to coming on school property. All workmen shall display the badge on their person while on site, and at all times. Failure to wear identification badge at all times will result in the immediate removal from the jobsite.
11. Each Prime Contractor is responsible for their own storage and personnel trailers at each site. Each Contractor will be required to supply man trailers and storage box trailers as required. All costs related to its delivery, construction, protection, power, etc. is borne by the individual Contractors utilizing space. The Owner WILL NOT PROVIDE STORAGE SPACE. The placement of these trailers will be strictly limited to predetermined locations. Approval of the placement of any trailer or storage box must be received from the Construction Manager.
12. The parking for construction personnel shall be limited to designated parking areas only. Failure to abide by this rule will result in towing of cars at the expense of the Prime Contractor whom employs the individual.
13. All delivery vehicles/trucks/machinery/etc. permitted on site, must be equipped with back-up alarms and enter through the designated access points. Failure to demonstrate this ability will result in cancellation of delivery or stoppage of work. All delays associated with this cancellation will be the responsibility of the Prime Contractor responsible for the Work involved.
14. All temporary construction site fences installed by the any Contractor shall be installed with a tightly woven, blind screen mesh. This mesh is to be installed on the "construction" side of the fence. The General Contractor will maintain all fencing daily and lock gates at the end of the day.
15. All crane picks, material delivery, etc. must be coordinated so as not to lift over any occupied area of the building. If absolutely necessary, this work shall be done on off hours to ensure the safety of the building occupants. Crane location must be carefully chosen to ensure the safety of building occupants. Crane picks must also not be conducted during academic hours within 20' of a fully-occupied building.

16. The Owner or Construction Manager reserve the right to have all hoisting equipment periodically inspected by an independent inspector whose findings will be binding. The Prime Contractor at its own expense must make corrections before continuing work. The Owner or Construction Manager will not assume any responsibility for the safe operation of any hoisting equipment by exercising this right. Each Prime Contractor or Sub Contractor shall cooperate with the inspector by allowing time for the inspection. The Prime Contractor shall be notified 24 hours prior to the time of the inspection. These inspections do not release the Prime Contractor of their responsibility to provide all engineering, permits, and inspections as required by OSHA or the SED prior to use of any hoisting equipment.
17. All vehicular traffic (personal vehicles, trucks, equipment, deliveries, etc.) are to use the designated entrances as outlined on the Logistics Drawings. Access by other routes is to be on exception basis only.
18. **Site Logistics Plans SL-1, SL-2 and SL-3 can be found at the end of this specification section**

VII. SUBMITTALS

1. Each copy of each submittal shall have attached as the cover page the "Submittal Cover Sheet". All information requested in "Section 01 33 00 Submittal Requirements" shall be provided by the respective Contractor. Submittals will be returned without review if the cover sheet is not accurately completed.
2. Each Prime Contractor shall generate a complete "Submittal Log" within one calendar week of the Notice to Proceed. This log is to list all required submittals specific to your trade as detailed in the Project Manual/Specs. See enclosed form for your use. "ROJ" stands for Required on Job to assist your judgment of the time gap between submission, Architect review, fabrication/procurement and on-site need for putting the work item into place.
3. Each Prime Contractor shall review all submissions for completeness. Each Prime Contractor is responsible to stamp all shop drawings prior to submission to the Architect. The Architect will not review any shop drawings unless first reviewed by said Contractor. Bundle similar material submissions for proper review. Use the Architects Submittal cover sheet located in the Specifications
4. **All submissions shall be sent electronically to the Architect. Submittals will be processed and stored electronically, with access available to all Prime Contractors for coordination.**
5. Each Prime Contractor shall provide one transmittal for each submission package identifying each unique submission individually. For each submittal with the submission package, the Prime Contractor shall identify the length of the delivery time and the necessary "last date" an item may be received on site. Each Prime Contractor shall keep a log of all submissions in a manner prescribed by the Construction Manager and the attached form. Minimally, the Contractor shall update this submittal log biweekly and provide a copy to the Construction Manager for review and information.
6. Each Prime Contractor shall copy the Construction Manager's Project Manager on all transmittals, correspondence, RFI's and any other documents sent to the Architect, his consultants or the Owner

7. At the direction of the Construction Manager, the Prime Contractor shall provide copies of either document and/or data files for any requested document on one of the following programs: Microsoft Word, Microsoft Excel, or Primavera's SureTrack – Project Manager 2.0 scheduling program.

VIII. LINE, LEVELS & GRADE

1. The Prime Contractor for General Construction shall establish a baseline and benchmark system for each building addition, area of renovation or component. This survey work shall be completed by a NYS licensed professional surveyor. The surveyor(s) employed to establish this system or to extend and maintain an existing benchmark system for the work of other trades shall not have less than five years' experience in performing construction surveys similar to the work they will perform for this project. The other Prime Contractors and their subcontractors shall be responsible for extending these lines, levels and grades, and for performing all layouts for their own work. Each Prime Contractor is solely responsible for any damage or loss due to incorrect extension of lines, level or grades in their layout. Each Prime Contractor and their subcontractors shall be responsible for the accuracy with respect to the layout of their work. Any discrepancies or errors in the drawings, perceived by a Prime Contractor or subcontractor, shall be immediately reported to the Construction Manager and Architect. If any corrections are necessary, they shall be executed in accordance with procedures approved by the Construction Manager.
2. Each Prime Contractor and their subcontractors shall be responsible to offset, or to protect, their markings from anything that may disturb them.
3. The Prime General Construction Contractor and all other Contracts will build to existing conditions of the site and joining buildings. To confirm line, level and grade, the Prime General Construction Contractor will employ a licensed NYS surveyor by the end of the project and produce an 'As-Built' drawing including final elevations and boundaries of any structural or earth modifications.

IX. MANAGEMENT OF WORK

1. Each Prime Contractor shall employ (from one week after Notice to Proceed until punch-list and closeout are complete) at a minimum a full-time Project Manager and full-time on-Site Super. The Project Manager and Site Super shall represent the Prime Contractor. All communications given to the Project Manager or Site Super either verbal or written shall be as binding as if given to the Prime Contractor. Important communications shall be so confirmed in writing.
2. Each Prime Contractor shall provide copies of their daily construction reports to the Construction Manager's Field Superintendent. These reports shall be submitted no later than 10:00am the following workday. The daily reports shall provide detailed information concerning the Prime Contractors' activities and operation only. Daily Construction Reports to the owners' representative detailing manpower and work activities on site. A "Daily Construction" form is attached and shall be used for reporting these said activities. In addition, the Contractors are to submit Two Week Look Ahead schedules at every construction meeting which describes coming work in detail. A "Two Week Look a Head" form is also attached and shall be used to report said activities.

3. Each Prime Contractor shall have responsible representation at the **MANDATORY** weekly job meetings held at the Construction Manager's job office from notice to proceed thru close out. These meetings will be held to arrange for a satisfactory coordination of all building trades so as not to impede job progress. Prime Contractors or subcontractors who fail to attend the meetings will be back-charged \$500.00 per each occurrence.
4. Each Prime Contractor shall submit two-week look ahead schedules identifying the anticipated activity, and material needs for all of the work scheduled to be formed by the Prime Contractor and his subcontractors for the identified time period. The Prime Contractor shall keep this schedule current and provide a biweekly report to the Construction Manager concerning the actual performance and activity compared to the two-week look ahead.
5. The MEP Coordination shall follow the guidelines stated below:
 - a. Each Prime Contractor shall have sufficient responsible representatives at mechanical/electrical/plumbing coordination meetings held at a location to be determined. These meetings shall be held as frequently as required by the Construction Manager or any other Prime Contractor. The General Construction Prime Contractor shall also include a representative at these meetings.
 - b. All Contractors are expected to jointly produce coordination drawings. Prime Contractors are to first submit their respective shop drawings for approval, to the Owner's Architect and Engineers in order to make any necessary changes prior to going through the coordination process. The HVAC Contractor shall provide black line mylars/ CAD Drawings showing all of the approved ductwork. The HVAC Contractor shall locate on these mylars/CAD Drawings all piping in orange pencil/ lines. The Plumbing Contractor shall locate the plumbing lines on these mylars/CAD Drawings in blue pencil/ lines. The Electrical Contractor shall indicate conduit runs in green pencil/ lines. The General Contractor will have the last coordination review. As each coordination drawing is completed, Contractors are to meet with the Construction Manager and the Architect to review and resolve all identified conflicts on the coordination drawings.

Note: for areas without HVAC work, the Mechanical Prime shall provide the necessary mylars/ CAD Drawings with black line. All coordination meetings will be held at the Construction Manager's office.
 - c. It is the responsibility of the Prime Contractor for General Construction to coordinate all points of entry through the foundations, slab penetrations, sleeves, roof openings and penetrations, wall openings and penetrations etc. with the work of all other Contractors, including but not limited to M. E. P. Primes, kitchen equipment, casework and casework accessories.
 - d. It is the responsibility of each Prime Contractor to coordinate with the architectural details and elements, such as soffits, variations in ceiling height and materials, fire/smoke partitions or barriers, folding partition, doors, lockers, and any other general construction items that impact the space above the ceiling or otherwise requiring light framing and/or miscellaneous support or bracing.
6. If any Prime Contractor fails to keep the site safe and clean within four hours of being notified by the Construction Manager either verbally or in writing, the Construction Manager will have this work

performed and back charged to the appropriate Prime Contractor at prevailing overtime rates plus 15%. Notice to field personnel is deemed notice to this Prime Contractor.

7. Dust and fume control is essential to the reduction of health risks to the surrounding personnel. Methods of dust control shall include but not be limited to the following:
 - a. Adequate ventilation.
 - b. Wetting down.
 - c. Keeping bags of insulating materials, cement, etc. closed.
 - d. Controlled mixing of materials under field conditions.
 - e. Special attention should be utilized in sawing of insulation and certain acoustical materials and storage of materials.
 - f. Job housekeeping must be maintained.
 - g. Advising all personnel of hazardous conditions, including supervisors and workmen.
 - h. Each Prime Contractor shall be responsible for instituting the above policies to insure minimal impact to surrounding occupied areas.
8. Each Prime Contractor shall confine operations on the premises to areas designated by the Construction Manager and permitted by law, ordinances, permits and the Contract Documents, and shall not unreasonably encumber the Premises with any materials or equipment. The Prime Contractor shall coordinate all of his operations with, and secure approval from, the Construction Manager, before using any portion of the Premises. Field personnel are to be confined to the work area assigned.
9. Where material is specified to be furnished by others or furnished and delivered only, the Prime Contractor installing the material shall be responsible for scheduling the delivery and receiving, unloading, storing, handling, relocating, hoisting, distribution, laying out and installing this material. Upon receipt by the Prime Contractor installing the material, risk of loss and damage shall be borne by that Contractor.
10. All Prime Contractors and their subcontractors shall allow sufficient time to inspect and accept the work of the previous Contractors. Should any discrepancies be discovered, The Construction Manager shall be notified sufficiently in advance so that corrective action can be agreed to and taken (by all necessary parties) without affecting the progress of any Contractor or the work.
11. All Prime Contractors are advised to exert utmost care and diligence when working in or near any existing buildings or site work which is to remain. The absence of protection around such items shall not excuse the Prime Contractor from his liability to provide protection. Any damages to the existing buildings, sitework or facilities shall be repaired and expensed to the responsible Prime Contractor.
12. Each Prime Contractor shall be solely responsible to remove and replace the existing ceiling tiles and grid in areas of the existing building where their work is required but new ceilings are not scheduled. In the event that the existing ceilings are damaged and cannot be replaced to the satisfaction of the Owner, the responsible Prime Contractor shall be solely responsible for replacing, in kind, the existing ceilings with new tile and grid. A qualified Contractor, acceptable to the Owner, shall perform all ceiling replacements.

13. All disconnect and/or tie-in work involving any utilities that would interfere with the ongoing operations of the Owner shall be completed on an after-hours basis. The performance of this work shall be projected on the required schedules and the Owners Representative is to be notified at least forty-eight hours in advance of commencing with this work. All overtime and standby personnel necessary to complete these tie-ins shall be the responsibility of the Prime Contractor performing the work.
14. At the same time the Prime Contractor submits their Insurance Certificate they shall also submit to the Construction Manager the labor rates of each category of labor for which he or his subcontractors shall employ (either directly or indirectly). This information shall be itemized in the format shown below.

Contractor's Name					
Contractor's Address					
Contractor's Office Phone					
Contractor's Fax Number					
Contractor's Email Address					
Labor Rate Breakdown					
Worker's Title		Journey man	1.5 Rate	Fore man	1.5 Rate
Base Hourly Rate					
Payroll Tax & Insurance:	% Per Hr				
FICA					
Federal Unemployment					
State					
Workers Compensation					
Disability					
Other (Explanation Required)					
Subtotal					
Benefits:	\$ Per Hr				
Vacation					
Health & Welfare					
Pension					
Annuity					
401K Fund					
Other (Explanation Required)					
Other (Explanation Required)					

Subtotal					
Hourly Labor Rate					

X. REQUEST FOR INFORMATION (RFIs)

1. Refer to the specifications for a complete explanation of the Request For Information process, and copy of the RFI form. RFIs will be corresponded electronically and will be required for an interpretation needed by the Architect of the Drawings and Specifications.

XI. TESTING/INSPECTIONS

1. If NYSED, the Architect or Owner or determines that any work requires special inspection, testing or approval, the Construction Manager will instruct the Prime Contractor of such special inspection, or testing. If such special inspection or testing reveals a failure of the work to comply with the requirements of the Contract Documents, the Prime Contractor shall bear all costs thereof, including compensation for the Architect's, Construction Manager, and Testing Lab costs.
2. Contractor shall furnish incidental labor to:
 - a. Provide access to the work to be tested, sampled, and inspected.
 - b. Obtain and handle samples at the project site or at the source of the product to be tested.
 - c. Facilitate inspections, samplings and tests.
 - d. Coordinate with the Owners Rep and testing lab and submit schedule of required tests one week in advance.
 - e. Coordinate inspections
3. As they relate to the timely prosecution of the work, all Prime Contractors shall coordinate independent testing and inspections. If any Prime fails to coordinate such inspections and additional costs are incurred to the Owner, the Prime Contractor will be responsible for that inspection cost.
4. **The following is a list of intended controlled inspections:**
 - a. Soil bearing, sub-grade inspection and/or compaction
 - b. Concrete field and plant testing & rebar placement
 - c. Masonry or stone field inspection, mortar sampling, reinforcement placement inspection
 - d. Structural steel field welding, bolting, connections, and metal deck
 - e. Asphalt and sub-base inspection
 - f. Soil compaction, density and sieve analysis testing, soil bearing
 - g. Water and air infiltration for windows
 - h. Roofing, flashing, waterproofing
 - i. Under slab plumbing work
 - j. Firestopping
 - k. Fireproofing
 - l. Asbestos air monitoring

5. The Architect and Construction Manager shall be notified forty-eight hours prior to the need of testing, in the event the Contractor does not give proper notification and the work is done with no test, that Contractor will bear all costs for such tests.
6. ***All controlled inspection testing costs will be paid for by the Owner except as noted above.***
7. As part of the two-week look ahead, the Prime Contractor shall provide the Construction Manager with a schedule of all anticipated on-site Owner supplied inspections (if any are required). The Prime Contractor shall submit all requests for Owner-supplied inspection for all items of controlled inspection by 1:30 p.m. of the day previous.

XII. CHANGES TO THE WORK

1. Refer to Article 8 of the General Conditions for additional information pertaining to this subject.
2. All change proposals for extra work by the Prime Contractors shall be submitted to the Construction Manager, with a complete labor and material breakdown and on the basis of net difference in quantities. The Owner reserves the right to request adequate back up such as invoices, subcontractor quotes, etc., to substantiate the change order cost. Current labor rates for all trades are to be submitted to the Construction Manager by the respective Prime Contractors at the first scheduled job meeting. When both additions and deductions are involved in any one change, the allowance for overhead and profit shall be figured on the basis of net increase or decrease.

All change requests shall follow the cost breakdown found in Paragraph 'C' of Article 8 located in the General Conditions.

XIII. SCHEDULE OF VALUES/PAYMENTS

1. Within one week after Notice to Proceed, the Prime Contractor shall submit a detailed billing breakdown on the AIA G702/ G703 form for approval by Construction Manager. No payments will be made until such billing breakdown is approved.
2. The schedule of values will be reviewed and adjusted if necessary. Once approved, the schedule of values is to be used for the AIA pay application. The schedule of value will take into account and include at minimum the following items:
 - a. Bond/insurance based on actual invoice amount
 - b. Labor and material on line items as applicable
 - c. Submittals - 1% of contract sum
 - d. Punch list - 1% of contract sum
 - e. Close-out documents/warranties - 3% of the contract sum
 - f. Meeting Attendance & Meeting Documentation - 2% of the contract sum
 - g. Allowances
 - h. Approved Alternates

- i. Labor and Material breakdown for each line Item

Note: Punch list value will be dispersed only when the work has been confirmed to be completed 100%.
ALL PAYMENT APPLICATIONS SHALL INCLUDE A 5% RETAINAGE FACTOR.

3. The Owner has elected to require the Prime Contractor to submit releases of liens with respect to all Work previously performed and for which payments were made under a preceding application. Beginning with the second payment requisition and with each subsequent payment requisition, each Prime Contractor shall furnish to Owner the following documents:
 - a. Labor and/or Materials Affidavit
 - b. Daily and Weekly Wage Affidavit
 - c. Prime Contractor's-Partial Release and Wavier of Lien
4. Monthly Payment Applications for Payments shall be made as per Article 9 of the General Conditions of the Contract
5. All Payment Applications for Payment are to include certified payroll for each employee working directly under the Prime Contractor, as well as all subcontractors working under agreements with the Prime Contractor.

XIV. PUNCH LIST

1. Upon substantial completion of each phase of work, the Prime Contractors are to submit to the Owner/Construction Manager a letter declaring the work is substantial complete. Included with said letter is to be the Contractor's punchlist. Upon the receipt of above, the Construction Manager will schedule with the Owner, Architect, and Contractor a walk through to develop a single final punchlist. This single final punchlist agreed by all parties shall serve as the only punchlist. Upon failure to complete the final punchlist within two weeks from receipt, the Owner reserves the right to complete same work and backcharge the costs of material, labor, supervision and other incidental costs.

XV. INSURANCE/INDEMNIFICATION

1. All Prime Contractors must issue a Certificate of Insurance with liability limits as defined in the Construction Documents naming Triton Construction Company, The Architect, The Architect's Consultants and the School District as an 'Additional Insured' in addition to all other parties as stipulated in the General Conditions of the Contract in the project manual.
2. All Prime Contractors agree to indemnify and hold harmless Triton Construction Company, The Architect, The Architect's Consultants, the School District, its agents and employees in addition to all other parties as stipulated in the General Conditions of the Contract in the project manual.
3. All Prime Contractors and Sub-Contractors/sub-subcontractor's/vendors/etc. insurance/indemnification shall comply with Article 11 "Insurance" as specified in the General Conditions of the Contract in the project manual.

Specific Scope Requirements for Each Prime Contractor

Each Prime Contractor is to refer to the technical specifications and drawings for further, or more comprehensive requirements.

Prime Contractor for General Construction (PCGC)

1. This Prime Contractor shall provide, for all the building construction work, all necessary site refuse containers and disposal services to maintain the site in a clean and safe condition. This Prime Contractor shall be responsible for emptying and/or replacing all containers on a regular basis or when full. All containers and disposal services shall be provided by a single entity. This Prime Contractor shall provide sufficient labor to keep the site clean on a daily basis and shall be responsible for providing the daily broom cleaning as necessary to maintain site safety.
2. This Prime Contractor shall coordinate with the; Electrician, Plumber and Mechanical Contractors to allow all Contractors unabated access to the building and surrounding work areas.
3. This Prime Contractor shall provide and maintain temporary chemical toilets for the duration of the project at the New Addition and the Renovations. The quantity of these toilets should be as required to properly maintain sanitary facilities and easy access for the personnel on the job. This quantity shall be a minimum of two toilets per major work area. This requirement shall include all necessary paper products, supplies and services, as well as the maintenance of these toilets until all work is complete and the Owner assumes partial occupancy of the building additions and renovations. As a minimum, this Contractor shall include the pumping and servicing of these toilets twice per week.
4. All Scaffolding or stair towers shall be designed and stamped by a licensed NYS PE. When designing this scaffolding consideration should be given to the environment, scaffolding system being used, means of access, means of tying the scaffolding to the structure, location, length of time to be erected, climate conditions, wrapping/containment of building, purpose of use, loadings, etc. all scaffolding and/ or stair tower access points must be secured while not in use. If and when needed, the scaffolding may be used for access by other Prime Contractors during construction- this contractor will not restrict access by others using the scaffold.
5. This Prime Contractor shall provide testing and inspection of the scaffolding on a daily basis and per governing regulation (e.g.,: OSHA). A log of these inspections are to be kept in the PCGC's job trailer, along with inspections tags that identify the status of the scaffolding (inspection dates, okay to use, caution, danger). Report to the Construction Manager all corrective work required through the course of the project.
6. As shown on the logistics plan, this Prime Contractor shall include in his bid price, all costs to provide an **8' ht.** rental type chain link construction fencing and gates. All fencing shall have a tightly woven, blind screen mesh installed on the "construction" side of the fence. Mesh to be dark green or black. When

directed by the Construction Manager, this Prime Contractor shall remove and dispose of this fencing and all related materials. Gates for man access shall be passive to the exterior of the jobsite during the event of an emergency, but remain closed for un-authorized entry during construction. All gates shall be locked when the site is not active, with a double-keyed system, granting the District access to the site after-hours. Included in his bid price, this Prime Contractor shall allow a 1,000lf allowance of orange netting, to be used at the direction of the CM, Architect or Owner.

7. This Prime Contractor shall perform its steel erection according to their Site Logistics/Safety Plan. Booming steel over the Existing Building will not be permitted while occupied. Steel erection within 20 feet of an occupied building/space will require after-hours crane picks.
8. This Prime Contractor will repair, replace, correct, or finish grade, topsoil, and seed all areas with-in the construction site that was disturbed by the work of this project.
9. This Prime Contractor shall provide and maintain all temporary plastic barriers, partition walls, doors, hardware and plywood barriers for the duration of the project to separate work areas from public areas and to maintain security, dust, and noise control. Temporary partitions and doors will be painted with 1x coat of primer and 2x coats of paint for esthetics.
10. Construction Signage. The Prime Contractor shall include in his base price all construction signage required by OSHA. At the site fence, "Construction Area keep out", "Hard Hats Required" and "Authorized personal only" signage shall be posted every 10' on site fencing. This Prime Contractor shall reference the logistics plans for each project to include any other signage designated for entry gates. Signs shall be made of either metal or durable PVC to endure the project duration.

The Prime Contractor shall also include signage for COVID-19 protection, alike the construction signage, stating "Keep Social Distance", "Wear Mask" and "Sanitize Frequently".

11. Professional Cleaning: The PCGC shall provide a professional commercial cleaning service to prepare all areas of interior construction for use and to provide a final cleaning after substantial completion is achieved and after direction to provide such service is received from the Construction Manager. This work shall be completed in cooperation with the building maintenance staff and their respective procedures. As part of this service, the PCGC shall wax all new or repaired floors, and, wash or clean all walls, doors, windows, frames, casework, blinds, unit ventilators, shelves, counters, toilet fixture, sinks, equipment, etc. All work shall be performed in place or on site and does not include sending items out for service or special cleaning operations.
12. Unless specifically noted on the contract documents, this Prime Contractor will provide all concrete equipment pads as shown on the contract documents. All other primes will provide pad sizes and locations.
13. This Prime Contractor is responsible for protection of finished work. Including but not limited to; floors, walls, and doors. This Prime Contractor will provide, maintain, and remove the appropriate protection materials necessary to adequately protect his finished product.
14. This Prime Contractor should note there are numerous areas where the existing ceilings are remaining. This Contractor will be required to remove and reinstall any ceilings displaced by installation of this Contractor's Work. If open ceilings are not replaced within a twenty-four hour period after a request by

the Construction Manager, either verbal or written, the Construction Manager will have said ceilings reinstalled and all related costs will be back charged to said Contractor.

15. Unless otherwise noted in the construction documents, this Prime Contractor will repair and patch all walls, floors, and ceilings to match adjacent finishes after the removal of interior partitions, ceilings, floors, M.E.P. SP. Conduit, piping and ductwork. This includes all walls and ceilings above finished ceilings or spaces. Each Prime Contractor will cut and cap their own work inside finished walls, floors and ceilings.
16. Snow Removal: This Prime Contractor shall provide all equipment, tools and labor for snow removal to assure work can continue through the winter months. Any accumulation of snow in the areas within the construction fencing and directly outside of the fenced-in area, shall be removed immediately by this Prime Contractor. The contractor will work in-hand with the District with their snow removal efforts to ensure access to the site.
17. Temporary Heat: As dictated by the bid schedule this Prime Contractor shall provide temporary heat from November thru December for the New Addition. This is to assure that the work of all trades can continue through the winter months. This includes temporary heating equipment, fuel, fire watch, necessary labor/supervision, ventilation, temporary enclosures etc. In no case shall the temperature be less than 50 degrees F. Temporary heating plants using electric power as an energy source can be used with prior authorization by the Architect/CM/Owner.
18. Building Containment/Wrap: **(IF NOT COMPLETE WITH MASONRY AND TEMPERATURE-SENSITIVE MATERIALS, and IF WINDOWS DOORS ARE NOT INSTALLED BY HEATING PERIOD)** This Prime Contractor shall wrap the New Addition. The PCGC must wrap in whole structure between November and December to assure that the interior construction can continue through the winter months. As needed to complete the Building Watertight Milestone, the PCGC shall install temporary enclosures to each building addition opening (windows, doors, louvers, clerestory, storefront, etc.) in order to achieve an environment capable of being temporarily heated should the windows and doors not be installed (Typical temporary WINDOW/DOOR enclosure consist of ¾" CDW Plywood over 3 5/8" metal stud.
19. This Prime Contractor shall use winter concrete design mix using Pozitec or Accelguard 80 for all concrete work when temperatures reach 40 F or below.
20. This Prime Contractor will be responsible to provide safe egress between floors, which may include the use of temporary stairs w/hand rails; temporary wood treads in metal pan stairs until concrete is poured, ladders, etc. immediately after completion of the structural steel.
21. This Prime Contractor shall provide fire extinguishers for the life of the project, the extinguishers are to be hung and identified as per OSHA requirements (1 per 3000 sq ft, or better). These extinguishers are to be re-charged and inspected for the life of the project.
22. This Prime Contractor shall furnish, install, and maintain an OSHA (3) three line guardrail system (toe board, 2 mid rails and top rails) @ stairwells, open slab edges, MEP shafts, elevator shafts and other openings leading to fall hazards.
23. This Prime Contractor shall furnish, install, and maintain perimeter protection at all floors and roof areas of the new additions. These safety cables must meet all OSHA requirements. The safety cables must be installed with turnbuckles in such a manner as to allow access to the exterior of the building for completion of work by others.

24. If due to location of fabrication plant, a local storage yard is required, all cost associated with this storage yard including receiving, unloading, storing, shake-out, reloading, and delivery to the site shall be this Prime Contractors' cost.
- a) The Owner may have an Inspector at the plant during the fabrication period. Appropriate access shall be provided at all times for this individual.
25. Prior to each floors lift the Prime Contractor shall provide a survey by a NYS licensed surveyor, with no less than 5 years' experience, indicating wall plumbness and slab elevation prior to final bolting/welding.
26. Shoring/ Support of Excavation: This Prime Contractor will be responsible for hiring a license NYS PE to design a shoring and underpinning plan in effort to build adjacent to existing structures.
27. Stormwater/Underground Drainage: This Prime Contractor will be responsible to install stormwater structures and piping associated with the New Addition work. Stormwater and ponding during the period where final connections have yet to be made will be managed by this Prime Contractor. Ponding of water within or directly outside the site due to construction activities will be mitigated by this Prime contractor by removing the water by pumping or with re-grading the disturbed area.
28. Soil Erosion: This Prime Contractor will be responsible to establish and maintain a soil erosion fence around the disturbed site during the entirety of construction, until authorized by the Civil Engineer/Architect to remove such provisions. This Prime contractor will also provide erosion control at each existing and new nearby storm basin structure. Reference shall be made to the construction plans & documents for additional Soil Erosion provisions required by this Prime Contractor.
29. Abatement Work: This Prime Contractor will be responsible to hire a qualified and DOL licensed Abatement Contractor to perform ALL Hazardous Material removal at areas indicated in the drawings. This work will only take place during the summer recess or over an extended break/holiday such as Spring Break. If the work is unable to be completed by the end of the summer or extended holiday break, abatement will only take place during other holiday weeks, or when students are no occupying the building for extended periods.
30. Under slab MEP Trenching at New & Existing Slabs: This Prime contractor will be responsible to coordinate with the MEP Prime contractors and Construction Manager through the Contract Documents and the Coordination Drawings, for any under-slab piping. This Prime Contractor (PCGC) will be responsible to provide the trenching, bedding, backfill and compaction for such MEP under-slab items. Each MEP Prime Contractor will be responsible to provide a final layout to the PCGC, prior to trenching. Each MEP Prime contractor will be responsible to level their piping with provided bedding from the PCGC, testing the piping prior to back filling.
- This Prime contractor will be responsible to survey, sawcut, trench, lay bedding, backfill trench, dowel existing slab and place new concrete to be level to receive new floor finishes. Where slabs are receiving new floors, this Prime Contractor (PCGC) will provide any corrective patching to the top-of-slab and install the new finish floor. Where existing flooring is to remain and be patched; this Prime Contractor will be responsible to match the existing finish, prepare and install new material, at approval of the Architect and CM.
31. Sanitary: This Prime General Construction Contractor will be responsible to install sanitary structures and piping associated with the civil utility work for the New Addition. All tie-ins to existing structures

and new structures by this Prime Contractor; includes all required testing. Piping shall be brought to 5' outside the building to be picked up by PCP, continuing into the inside of the building.

32. This Prime Contractor will provide new ductwork penetrations greater than 12"x12" for the PCM, PCE and PCP in walls, ceilings, or floors, as well as any structural support necessary.
33. Each Prime Contractor is required to fire stop and/ or smoke stop all walls, floors and ceilings after completion of all their own work.
34. This Prime Contractor will hire the services of an underground utility surveyor to locate and mark all existing underground utilities and services with-in the Area of Work.
35. This Prime Contractor is responsible for protection of finished work. This Prime Contractor will provide, maintain, and remove the appropriate protection materials necessary to adequately protect finished product.
36. This Prime Contractor will repair, replace, correct, or finish grade, topsoil, and seed all areas with-in the construction site that was disturbed by the work of this project, including any staging areas for material and equipment.
37. New Mechanical Roof Top Units and Exhaust Fans will be furnished and installed by the Mechanical Contract Prime, with final Electrical/ Fire-Alarm terminations by the Electrical Prime under separate contracts. Roof Top Curbs will be furnished, lifted/picked, and set/installed by the Mechanical Contract Prime. Blocking for curbs, final flashing, roof deck penetrations/openings and structural reinforcing shall be by the PCGC Prime. Coordination between each trade to install the roof system in a seamless matter is required per each Prime's contract. The following sequence clarifies the coordination between the General Construction Prime (PCGC), Mechanical (PCM) and Electrical (PCE) trades for New Mechanical RTU/ Exhausts Fan Equipment:
 - A. Roof Top Unit Curbs:
 1. Furnished, coordinated, lifted/picked and installed (excludes roof flashing) by Mechanical (PCM) Prime
 2. Deck/Roof Opening, Structural Reinforcing, Blocking, Insulation and Roof Flashing by General Construction (PCGC) Prime
 3. Pipe Portals/ Pitch Pockets Furnished by Mechanical (PCM) Prime
 4. Pipe Portals/ Pitch Pockets Installed and Flashed by General Construction (PCGC) Prime
 - B. Rooftop Dunnage
 1. Furnished, coordinated, lifted/picked and installed by General Construction (PCGC) Prime
 2. Deck/Roof Opening, Structural Reinforcing, Blocking, Insulation and Roof Flashing by General Construction (PCGC) Prime
 - C. Mechanical Equipment (RTUs):
 1. Furnished, hoisted/picked and installed by Mechanical (PCM) Prime
 2. Piping by Mechanical (PCM) Prime
 3. Ductwork by Mechanical (PCM) Prime
 4. Controls by Mechanical (PCM) Prime
 5. Electrical by Electrical (PCE) Prime
 6. Fire Alarm/ Shutdowns by Electrical (PCE) Prime

Temporary protection of open curbs prior to units being installed, will be provided and maintained, by the General Construction Contractor in cooperation of all other trades. Water infiltration as a result the Mechanical or Electrical Prime not re-protecting open roof curbs, will be the sole responsibility of that

trade to reimburse the PCGC Prime - to correct the temporary protection. Any damages to the interior finishes of the building, caused by water infiltration, will be the responsibility of that Prime Contractor causing the leak, to correct the damages per the terms of the General Conditions.

38. Wood Flooring Replacement: This Prime Contractor will not perform more work than what can be replaced in a 72 hour window. This is in order to protect the School District from the contractor not being able to finish his work by the end of the summer, and to turn rooms over to the district periodically. Rooms must start being turned over to the District no later than July 25, 2021 and be complete no later than August 20, 2021.

- j) This Prime Contractor will furnish a mockup for the Architect to review prior to commencing with the replacement of any rooms. The mockup will include conditions that include specific details of typical features in each classroom and may be subject rejection.
- k) This Prime Contractor will mitigate dust from entering the hallway from each room. Dust and debris encountered in the hallways, will be the responsibility of this Prime Contractor to clean.
- l) This Prime Contractor will provide a finished floor system per the direction of the Contract Documents. The flooring system will be turned over to the Owner for use without requirement any cleaning or further work. it will be the responsibility of this contractor to provide a dust-cleaning at each room, including but not limited to: shelves, window sills, unit ventilators, radiators, casework and equipment.

Prime Contractor for Plumbing (PCP)

1. The Prime Contractor for General Construction (PCGC) shall provide dumpsters for this trade. Each Prime Contractor is responsible for collecting, moving, placing, breaking down boxes and pallets, and disposing rubbish, on a daily basis, all debris from their activities into a dumpster supplied by the PCGC. Each Prime Contractor is responsible to broom clean the areas they worked in at the end of each day.
2. The PCP shall use the dedicated staging areas for the PCP's Construction Field Office. The PCP will be required to remove and reinstall the fencing that surrounds this location for installation of the PCP's construction office. The PCP will be required to install electric, sanitary, water, phone, cable etc. at the PCP's expense. Electric bills to the trailer only will be paid by the Owner.
3. The expediting of *out of sequence hookup* of roof drain piping must be included within this Prime Contractor's base bid to help prevent excessive water from entering into the new/existing building.
4. The Prime Contractor for Plumbing shall include, as part of his base price, all costs associated with providing one hose bib for temporary water service at each major building addition area (if this hose bib does not already exist). The Prime Contractor for Plumbing shall install these hose bibs at locations designated by the Construction Manager.
5. The Prime Contractor for Plumbing should note there are numerous areas where the existing ceilings are remaining. This Contractor will be required to remove and reinstall any ceilings displaced by installation of this Contractor's Work. If open ceilings are not replaced within a twenty-four hour period after a request by the Construction Manager, either verbal or written, the Construction Manager will have said ceilings reinstalled and all related costs will be back charged to said Contractor.

6. This Prime Contractor shall coordinate with the Electrician, General Contractor, and Mechanical Prime Contractors to allow all Contractors unabated access to the building.
7. Unless otherwise noted in the construction documents, this Prime Contractor will cut and cap their own work inside finished walls, floors and ceilings.
8. Each Prime Contractor is required to fire stop and/ or smoke stop all walls, floors and ceilings after completion of all their own work.
9. This Prime Contractor is responsible for protection of finished work. This Prime Contractor will provide, maintain, and remove the appropriate protection materials necessary to adequately protect his finished product.
10. Trenching under slab (New/Existing): This Prime contractor will be responsible to layout all locations for any under slab piping. The Prime Contractor for General Construction will be responsible to include trenching provisions for under-slab (New or Existing) work where indicated on the plans at new slab locations. This Prime Contractor (PCP) will lay all piping, leveling piping, test and allow the PCGC to backfill in time not to disturb the overall project schedule. This Prime Contractor for General Construction (PCGC) will be responsible to sawcut any existing slabs required to install piping, trench, lay bedding and patch the slab to accept new finishes.
11. Stormwater "Roof Drains and Piping": This Prime General Construction Contractor will be responsible to connect to the stormwater piping 5' outside the building foundation. This contractor will be responsible to core drill, seal and install all piping from 5' outside the building- into the building.
12. Sanitary: This Prime General Construction Contractor will be responsible to connect to the sanitary piping 5' outside the building foundation. This contractor will be responsible to core drill, seal and install all piping from 5' outside the building- into the building.
13. Any openings in excess 12"x12" in walls, or slabs, will be provided by the PCGC prime contractor at the new additions and renovations. This Prime Contractor (PCP) will be responsible for all other small opening, including saw cutting, core-drilling and alike.

Prime Contractor for Mechanical (PCM)

1. The PCGC shall provide dumpsters for this contractor to use for day-to-day rubbish. Each Prime Contractor is responsible for collecting, moving, placing, breaking down boxes and pallets, and disposing rubbish, on a daily basis, all debris from their activities into a dumpster supplied by the PCGC. Each Prime Contractor is responsible to broom clean the areas they worked in at the end of each day. **This Prime Contractor will include in his bid price the provision to remove large HVAC equipment from the site, at his own costs, including but not limited to RTUs, Chillers, Cooling Towers, Unit Ventilators, and Air Handlers.** All other debris is to be disposed of in the PCGC's dumpsters.
2. This Prime Contractor for Mechanical should note there are numerous areas where the existing ceilings are remaining. This Contractor will be required to remove and reinstall any ceilings displaced by installation of this Contractor's work. If open ceilings are not replaced within a twenty-four hour period after a request by the Construction Manager, either verbal or written, the Construction Manager will have said ceilings reinstalled and all related costs will be back charged to said Contractor.

3. Equipment Pads: Unless specifically noted on the contract documents, the Prime General Construction Contractor will provide all **interior and exterior** concrete equipment pads whether shown on the contract documents or not.
4. This Prime Contractor shall coordinate with the Roofing Contractor, Electrician, Plumber, and General Construction Prime Contractors to allow all Contractors unabated access to the building.
5. Unless otherwise noted in the construction documents, this Prime Contractor will cut and cap their own work inside finished walls, floors and ceilings.
6. Each Prime Contractor is required to fire stop and/ or smoke stop all walls, floors and ceilings after completion of all their own work.
7. This Prime Contractor is responsible for protection of finished work. This Prime Contractor will provide, maintain, and remove the appropriate protection materials necessary to adequately protect his finished product.
8. Both louvers openings, pipe and duct-work openings in excess 12"x12" in walls, or slabs, will be provided by the PCGC prime contractor at the new additions. This Prime Contractor (PCM) will be responsible for all other openings, including saw cutting, core-drilling and alike.
39. New Mechanical Roof Top Units and Exhaust Fans will be furnished and installed by the Mechanical Contract Prime, with final Electrical/ Fire-Alarm terminations by the Electrical Prime under separate contracts. Roof Top Curbs will be furnished, lifted/picked, and set/installed by the Mechanical Contract Prime. Blocking for curbs, final flashing, roof deck penetrations/openings and structural reinforcing shall be by the PCGC Prime. Coordination between each trade to install the roof system in a seamless matter is required per each Prime's contract. The following sequence clarifies the coordination between the General Construction Prime (PCGC), Mechanical (PCM) and Electrical (PCE) trades for New Mechanical RTU/ Exhausts Fan Equipment:
 - A. Roof Top Unit Curbs:
 1. Furnished, coordinated, lifted/picked and installed (excludes roof flashing) by Mechanical (PCM) Prime
 2. Deck/Roof Opening, Structural Reinforcing, Blocking, Insulation and Roof Flashing by General Construction (PCGC) Prime
 3. Pipe Portals/ Pitch Pockets Furnished by Mechanical (PCM) Prime
 4. Pipe Portals/ Pitch Pockets Installed and Flashed by General Construction (PCGC) Prime
 - B. Rooftop Dunnage
 1. Furnished, coordinated, lifted/picked and installed by General Construction (PCGC) Prime
 2. Deck/Roof Opening, Structural Reinforcing, Blocking, Insulation and Roof Flashing by General Construction (PCGC) Prime
 - C. Mechanical Equipment (RTUs):
 1. Furnished, hoisted/picked and installed by Mechanical (PCM) Prime
 2. Piping by Mechanical (PCM) Prime
 3. Ductwork by Mechanical (PCM) Prime
 4. Controls by Mechanical (PCM) Prime
 5. Electrical by Electrical (PCE) Prime
 6. Fire Alarm/ Shutdowns by Electrical (PCE) Prime

Temporary protection of open curbs prior to units being installed, will be provided and maintained, by the General Construction Contractor in cooperation of all other trades. Water infiltration as a result the Mechanical or Electrical Prime not re-protecting open roof curbs, will be the sole responsibility of that trade to reimburse the PCGC Prime - to correct the temporary protection. Any damages to the interior finishes of the building, caused by water infiltration, will be the responsibility of that Prime Contractor causing the leak, to correct the damages per the terms of the General Conditions.

Prime Contractor for Electrical (PCE)

1. The Prime Contractor for General Construction (PCGC) shall provide dumpsters. Each Prime Contractor is responsible for collecting, moving, placing, breaking down boxes and pallets, and disposing rubbish, on a daily basis, all debris from their activities into a dumpster supplied by the PCGC. Each Prime Contractor is responsible to broom clean the areas they worked in at the end of each day.
2. **The Prime Contractor for Electrical is to temporarily support existing ceiling mounted equipment/devices (i.e., speakers, fire alarm apparatuses, exit signs, wiring, light fixtures, etc.) as required for demolition of existing ceilings, in areas being renovated, until new equipment/devices are installed or existing equipment/device can be permanently remounted in the new ceiling.**
3. The Prime Contractor for Electrical shall provide and keep temporary light and power operational for a period of from fifteen minutes before the earliest starting time of the earliest trade, to fifteen minutes after the established quitting time of the trade which stops latest in the evening (fifteen foot candles) throughout the entire building (normal working hours 7:00 am to 4:00 pm). This applies to all scheduled workdays, Monday through Saturday inclusive, which are established as regular workdays for any trade engaged in the work, including such days that are holidays for Electricians but are regular workdays for other trades. These services are to be kept operational until the CM determines that they are no longer required for the execution of the work. Temporary light shall consist of a minimum of (1) bulb and cage per 10 square feet of floor space in all spaces no matter of size throughout the existing building spaces being renovated..
4. The Prime Contractor for Electrical shall include in his base price all costs associated with providing and maintaining adequate temporary light and power to all areas of work required by the construction documents. Each major area of work shall be provided with an adequate sized distribution panel for temporary light and power
5. The Prime Contractor for Electrical shall provide temporary power for masonry work, mixers, steel work, or fire proofing work, compressors etc. that may require 220V temporary power. Power is to be provided at each major area of work if required.
6. The Prime Contractor for Electrical should note there are numerous areas where the existing ceilings are remaining. This Contractor will be required to remove and reinstall any ceilings displaced by installation of this Contractor's work. If open ceilings are not replaced within a twenty-four hour period after a request by the Construction Manager, either verbal or written, the Construction Manager will have said ceilings reinstalled and all related costs will be back charged to said Contractor.
7. The Prime Contractor for Electrical shall replace all burned out light bulbs, within the work areas, when building is turned over to the owner at substantial completion.

8. This Prime Contractor shall coordinate with the, Roofing Contractor, General Contractor, Plumber, and Mechanical Prime Contractors to allow all Contractors unabated access to the building.
9. Unless otherwise noted in the construction documents, this Prime Contractor will cut and cap their own work inside finished walls, floors and ceilings.
10. Each Prime Contractor is required to fire stop and/ or smoke stop all walls, floors and ceilings after completion of all their own work.
11. This Prime Contractor is responsible for protection of finished work. This Prime Contractor will provide, maintain, and remove the appropriate protection materials necessary to adequately protect his finished product.
12. This Prime Contractor will modify all existing Fire Alarm devices that are part of the existing building being renovated, maintain the devices throughout construction, and or disconnect as needed. This Prime Contractor will assure that no troubles exist, by hiring a Fire Alarm vendor who is licensed to modify the existing Fire Alarm system to accept any temporary changes through construction. If any work compromised the Fire Alarm system during academic hours, then modification shall happen after hours.
13. This Prime Contractor is to develop a separate site-specific electrical service shutdown/upgrade schedule within four weeks after Notice to Proceed. This schedule will be developed in conjunction with the Construction Manager and the Owner. No shutdown/transfer will be permitted at any time without prior written notification. The Prime Contractor for Electrical shall provide temporary power for all 'others' work ongoing at the site during any electrical shutdown or transfer period that would otherwise deny other Contractors power. No shutdown or transfer shall be allowed during active school hours. Any and all shutdowns must be scheduled on the Owners off days (weekends, holidays). Any shutdown longer than three days will require this Prime Contractor to supply temporary power for the Owner (i.e., generators). The Electrical Prime Contractor shall provide a minimum of forty-eight hours' notice to the Owner and the Construction Manager or any necessary power shutdown.
9. Trenching under slab (New/Existing): This Prime contractor will be responsible to layout all locations for any under slab piping. The Prime Contractor for General Construction will be responsible to include trenching provisions for under-slab (New or Existing) work where indicated on the plans at new slab locations. This Prime Contractor (PCE) will lay all piping, leveling piping and allow the PCGC to backfill in time not to disturb the overall project schedule. This Prime Contractor for General Construction (PCGC) will be responsible to sawcut any existing slabs required to install piping, trench, lay bedding and patch the slab to accept new finishes.
10. Any openings in excess 12"x12" in walls, or slabs, will be provided by the PCGC prime contractor at the new additions and renovations. This Prime Contractor (PCE) will be responsible for all other small opening, including saw cutting, core-drilling and alike.
40. New Mechanical Roof Top Units and Exhaust Fans will be furnished and installed by the Mechanical Contract Prime, with final Electrical/ Fire-Alarm terminations by the Electrical Prime under separate contracts. Roof Top Curbs will be furnished, lifted/picked, and set/installed by the Mechanical Contract Prime. Blocking for curbs, final flashing, roof deck penetrations/openings and structural reinforcing shall be by the PCGC Prime. Coordination between each trade to install the roof system in a seamless matter is required per each Prime's contract. The following sequence clarifies the coordination between the

General Construction Prime (PCGC), Mechanical (PCM) and Electrical (PCE) trades for New Mechanical RTU/ Exhausts Fan Equipment:

- A. Roof Top Unit Curbs:
 - 1. Furnished, coordinated, lifted/picked and installed (excludes roof flashing) by Mechanical (PCM) Prime
 - 2. Deck/Roof Opening, Structural Reinforcing, Blocking, Insulation and Roof Flashing by General Construction (PCGC) Prime
 - 3. Pipe Portals/ Pitch Pockets Furnished by Mechanical (PCM) Prime
 - 4. Pipe Portals/ Pitch Pockets Installed and Flashed by General Construction (PCGC) Prime
- B. Rooftop Dunnage
 - 1. Furnished, coordinated, lifted/picked and installed by General Construction (PCGC) Prime
 - 2. Deck/Roof Opening, Structural Reinforcing, Blocking, Insulation and Roof Flashing by General Construction (PCGC) Prime
- C. Mechanical Equipment (RTUs):
 - 1. Furnished, hoisted/picked and installed by Mechanical (PCM) Prime
 - 2. Piping by Mechanical (PCM) Prime
 - 3. Ductwork by Mechanical (PCM) Prime
 - 4. Controls by Mechanical (PCM) Prime
 - 5. Electrical by Electrical (PCE) Prime
 - 6. Fire Alarm/ Shutdowns by Electrical (PCE) Prime

Temporary protection of open curbs prior to units being installed, will be provided and maintained, by the General Construction Contractor in cooperation of all other trades. Water infiltration as a result the Mechanical or Electrical Prime not re-protecting open roof curbs, will be the sole responsibility of that trade to reimburse the PCGC Prime - to correct the temporary protection. Any damages to the interior finishes of the building, caused by water infiltration, will be the responsibility of that Prime Contractor causing the leak, to correct the damages per the terms of the General Conditions.

- 14. This Prime Contractor for Electric shall include in their proposal procurement of a certified Sound System Contractor to provide and install the sound system as per the contract documents. The PCE shall ensure a complete turn-key system.
- 15. This Prime Contractor for Electric shall provide and install all labor, materials, and fixtures necessary for a fully functional PA system that is tied into the existing school PA system.

GENERAL LOGISTICS NOTES

1. GENERAL CONSTRUCTION TRADE TO PROVIDE 8'-0" TALL CONSTRUCTION FENCE W/ PRIVACY SCREEN AROUND ALL STORED MATERIAL AND AS SHOWN ON THE PLANS.

2. ALL PRIME CONTRACTORS TO UTILIZE THE STAGING LOCATION, PROVIDED BY THE GC. EACH PRIME CONTRACTOR SHALL COORDINATE MATERIAL AND EQUIPMENT WITHIN STAGING LOCATIONS, WITH THE OTHER PRIME CONTRACTORS AND CM.

3. MATERIAL WILL NOT BE PERMITTED TO BE STORED OUTSIDE FENCED-IN AREAS OR IN AREAS NOT DESIGNATED BY THE CONSTRUCTION MANAGER/OWNER. MATERIAL STORAGE ON THE INTERIOR OF THE BUILDING THAT IS NOT USED WITHIN 72HRS, WILL NOT BE PERMITTED.

4. ALL CRANES PICKS SHOULD BE SCHEDULED TO TAKE PLACE DURING THE SUMMER MONTHS, OR DURING AFTER-HOURS. THE CONTRACT PERFORMING A CRANE PICK ASSUMES ALL RESPONSIBILITY FOR RESTORATION OF THE LANDSCAPE/HARDSCAPE THROUGH APPROVAL BY THE ARCHITECT/CIVIL ENGINEER/CM. CRANE PICKS THAT REQUIRE UTILIZING THE VILLAGE/TOWN/CITY/STATE ROAD WILL REQUIRE THE CONTRACTOR TO FILE ANY PERMITS NEEDED TO SHUTDOWN THE ROAD/LANES FOR THEIR CRANE OPERATIONS. ANY COST ASSOCIATED WITH THE PERMITTING PROCESS OR FINES INCURRED AS A RESULT OF NOT FILING THE CORRECT PERMITS, WILL BE THE RESPONSIBILITY OF THAT CONTRACTOR PERFORMING THE CRANE PICK.

5. THE GC PROVIDING THE STAGING LOCATION IS RESPONSIBLE TO REPAIR THE GRADE, GRASS, SHRUBBERY, AND HARDSCAPES AFTER REMOVAL OF FENCING AND MATERIAL FROM ALL ACTIVITIES WITHIN THE STAGING LOCATION. THIS INCLUDES ANY REPAIRS AS A RESULT OF THEIR EQUIPMENT AND ACTIVITIES AROUND THE BUILDING AS A RESULT OF THEIR WORK. DAMAGE TO THE LANDSCAPE/HARDSCAPE AS A RESULT OF ANOTHER PRIME CONTRACTOR, OUTSIDE OF THE STAGING AREA, WILL BE THE RESPONSIBILITY OF THAT CONTRACTOR TO REPAIR.

THIS INCLUDES RESTORING ANY TEMPORARY LOGISTICS FOR EGRESS, SUCH AS WALKWAYS, ASPHALT RAMPS, ETC.,.

6. DELIVERIES ARE TO BE COORDINATED WITH THE CM AND SITE CONTRACTOR TO AVOID INTERFERENCE WITH PAVING.

7. DUMPSTERS AND REFUSE CONTAINERS, PROVIDED BY THE GENERAL CONSTRUCTION TRADE FOR ALL PRIME CONTRACTORS, ARE PERMITTED WITHIN STAGING AREAS. IF DUMPSTERS ARE NEEDED OUTSIDE OF STAGING AREAS, THEY WILL NEED TO BE SURROUNDED BY FENCING.

8. EACH PRIME CONTRACTOR IS REQUIRED TO COORDINATE -IN-HAND WITH THE CONSTRUCTION MANAGER AND ANY OTHER TRADE- THEIR OWN WORK, IN WHICH THEY MAY IMPACT OTHER TRADES OR THE OWNER AND IT'S PROPERTY.

9. THE GENERAL CONSTRUCTION PRIME CONTRACTOR IS TO PROVIDE AND MAINTAIN PERIODICALLY ALL TEMPORARY CONSTRUCTION SIGNAGE AS SHOWN ON THE LOGISTICS PLANS AND PER NYS, OSHA AND LOCAL GOVERNMENT REGULATION.

10. THIS INCLUDES BUT IS NOT LIMITED TO:
• JOBSITE RULES SIGN (3'-4" X 2'-3") SECURED TO SITE FENCE AT EACH ENTRANCE OF THE STAGING AREA (4 MINIMUM - 1 AT EACH LOCATION)
• "PERSONAL PROTECTIVE EQUIPMENT/ HARD HATS REQUIRED" SIGNAGE AT 20' INTERVALS ON ENTIRE PERIMETER OF SITE FENCE.
• "NOTICE - PREVENT SPREAD OF CORONAVIRUS, SANITIZE/WASH YOUR HANDS FREQUENTLY", "WEAR FACE MASK WHILE MAINTAINING SOCIAL DISTANCING"

11. EACH PRIME CONTRACTOR WILL BE REQUIRED TO SCHEDULE DELIVERIES WITH THE CONSTRUCTION MANAGER AND THE DISTRICT. THE DISTRICT AND/OR THE CONSTRUCTION MANAGER HOLD THE RIGHT TO REJECT DELIVERIES IF NOT SCHEDULED WITH THE CONSTRUCTION MANAGER OR DISTRICT.

12. EACH PRIME CONTRACTOR IS REQUIRED TO PROVIDE A (2X) DEDICATED FLAGMEN WHEN ACCEPTING DELIVERIES WITHIN THE STREET, TO THEIR STAGING AREA.

13. PARKING FOR EMPLOYEES WILL BE DESIGNATED AT TIME OF CONSTRUCTION, AND SHOULD BE ASSUMED TO BE OFFSITE PARKING, NOT PAID FOR BY THE OWNER; PARKING WILL NOT BE ALLOWED WITHIN THE STAGING AREA.

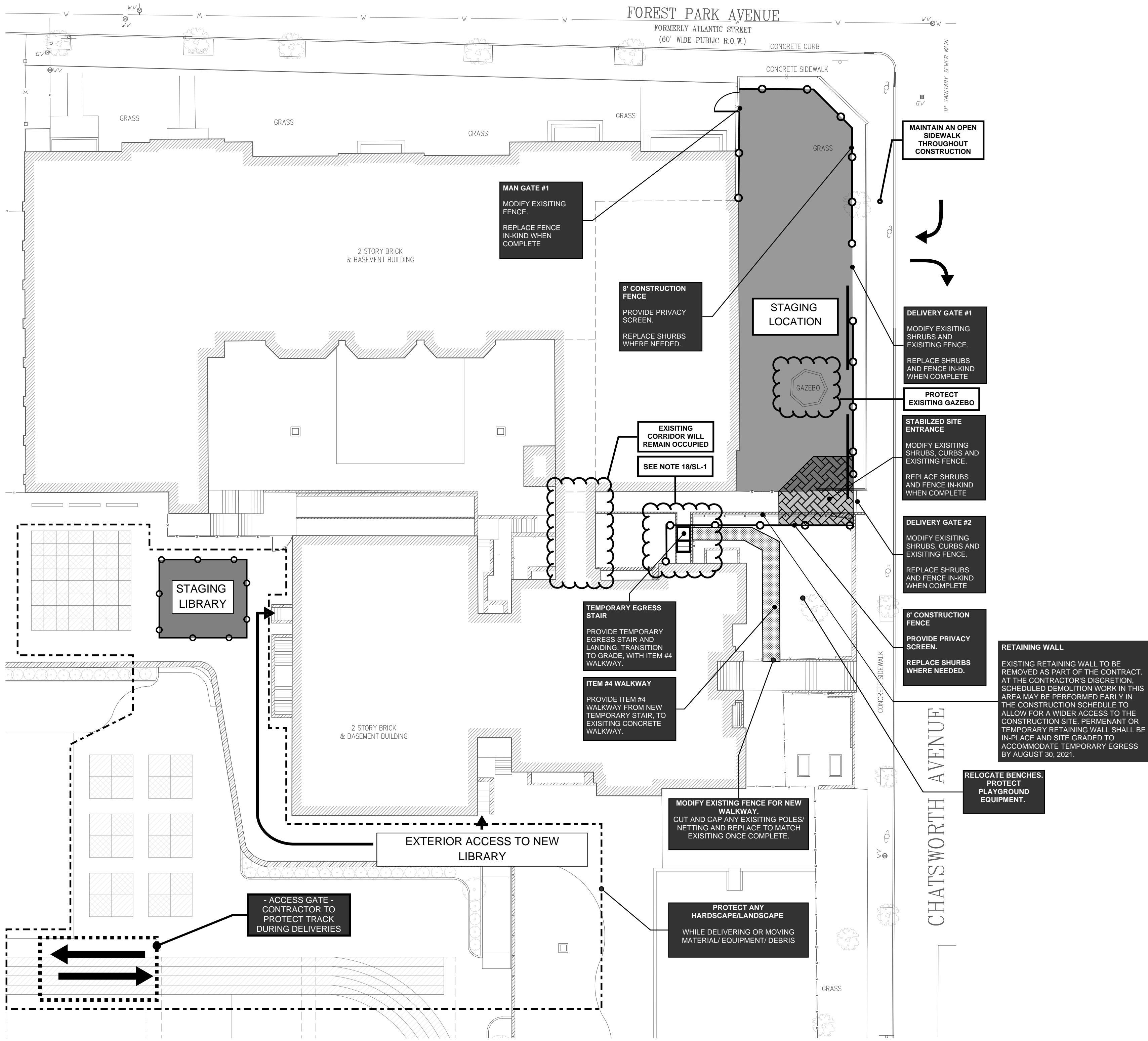
14. WORKERS ARE REQUIRED TO WEAR ID BADGES, HIGH VISIBILITY VESTS, HARD HATS AND ALL OTHER REQUIRED PPE AT ALL TIMES WHILE ON SITE. WORKERS/PERSONNEL WITHOUT THESE REQUIREMENTS WILL BE ASKED TO BE REMOVED FROM THE SITE WITH A ONE-STRIKE POLICY.

15. INTERACTION BETWEEN CONSTRUCTION PERSONNEL AND STAFF/STUDENTS IS NOT PERMITTED. ANY PERSONNEL FOUND INTERACTING WILL BE ESCORTED BY LAW ENFORCEMENT FROM THE SITE. THIS IS A ZERO-STRIKE POLICY.

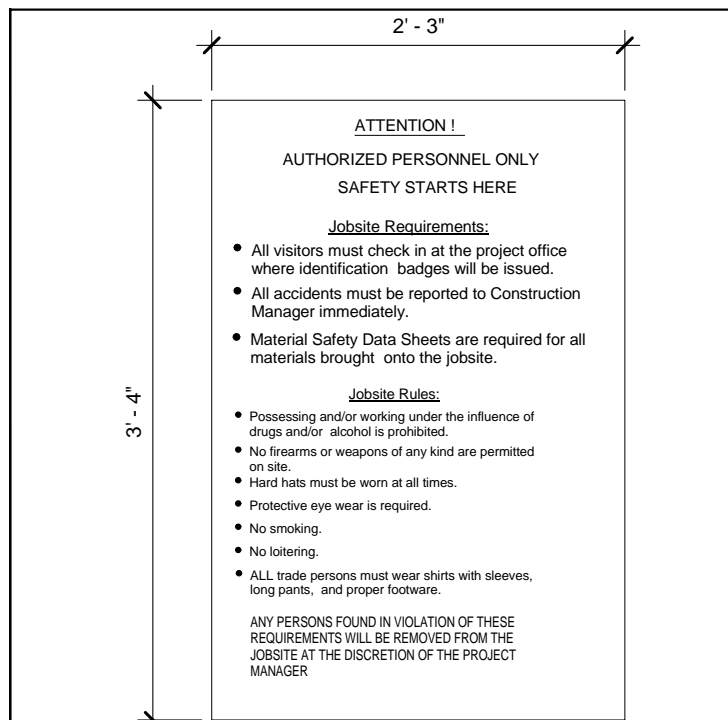
16. REFERENCE DIVISION 01 OF THE SPECIFICATION AND TRITON'S SPECIAL PROVISIONS FOR ALL OTHER LOGISTICAL REQUIREMENTS.

17. EACH PRIME CONTRACTOR MUST IMPLEMENT AND FOLLOW ALL NYS GUIDELINES AND REGULATIONS REGARDING COVID-19. INCLUDING BUT NOT LIMITED TO HAND WASHING/SANITIZING STATIONS, DISINFECTING, SOCIAL DISTANCING, CONTACT TRACING LOGS, ETC.. COVID-19 PROTOCOLS, POLICY AND PROCEDURES MUST BE DETAILED AND INCLUDED IN EACH PRIME CONTRACTOR'S SAFETY MANUAL AND LOGISTICS PLAN AND IS TO BE SUBMITTED TO THE CONSTRUCTION MANAGER WEEKLY. THIS REQUIREMENT EXTENDS TO ALL SUBCONTRACTORS OF THE PRIME CONTRACTOR.

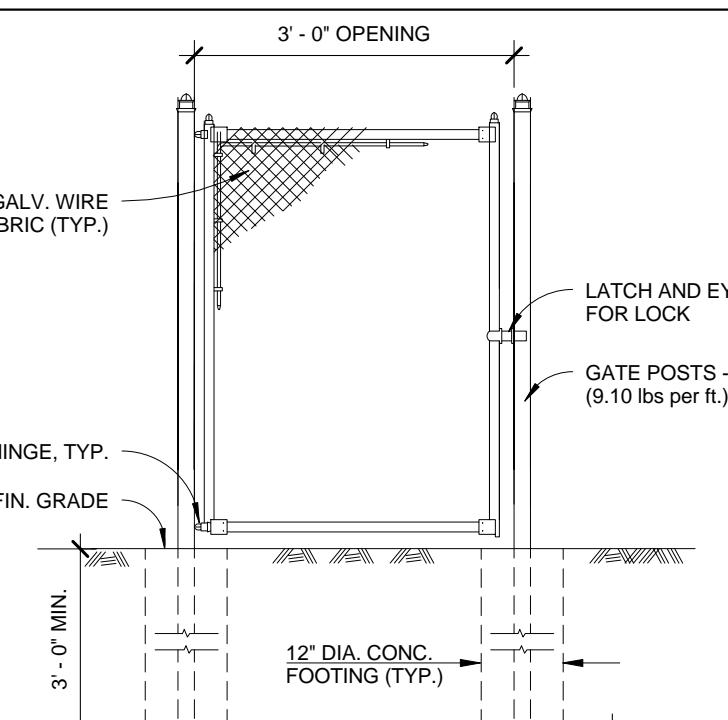
18. PROVIDE TEMPORARY EGRESS STAIR AND LANDING(S) AS REQUIRED TO ACCOMMODATE EGRESS FROM THE EXISTING UILDING BY AUGUST 30, 2021. STAIR AND LANDING SHALL ACCOMMODATE CHANGE IN ELEVATION TO NEW TEMPORARY ITEM #4 WALKWAY. GC TO PROVIDE SKETCH OF NEW EGRESS STAIR FOR APPROVAL PRIOR TO FABRICATION.



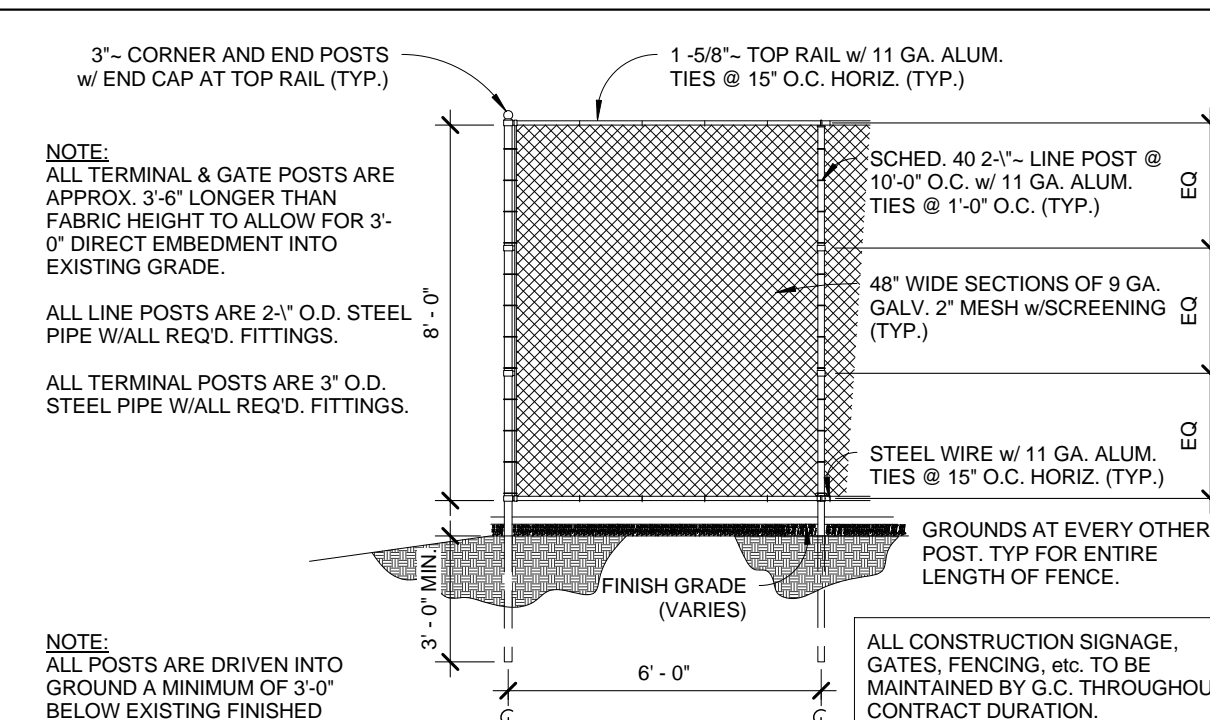
1 SITE PLAN - LOGISTICS
SCALE = N.T.S.



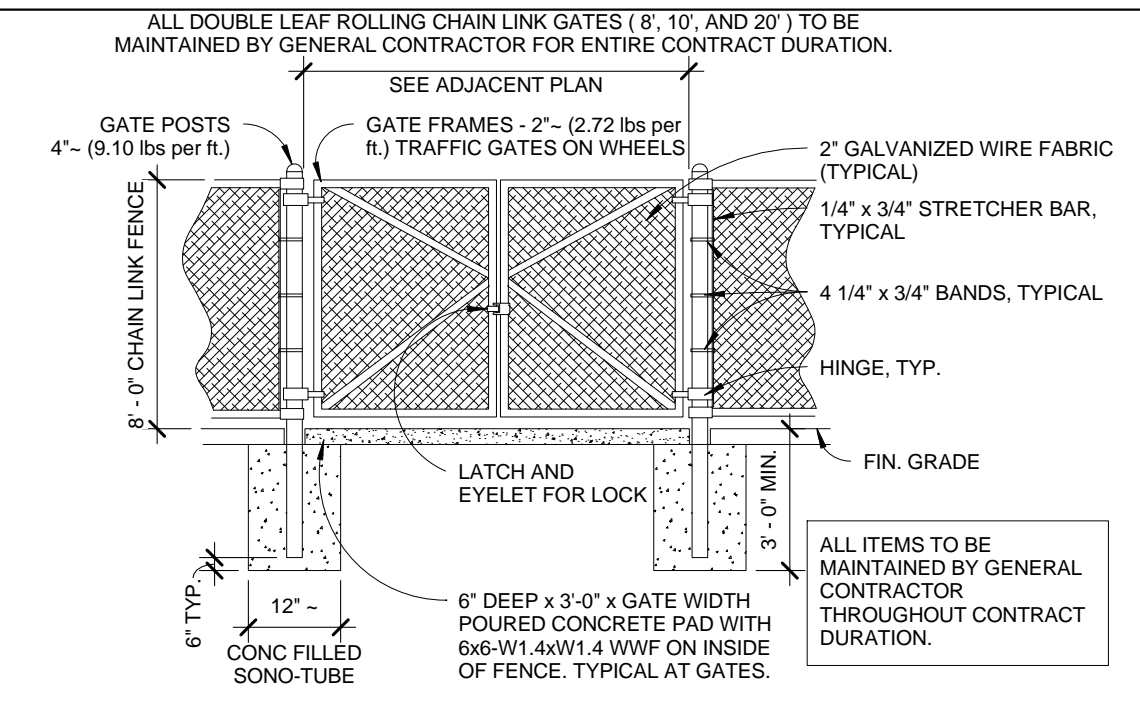
2 JOBSITE RULES SIGN DETAIL
NOT TO SCALE



3 TEMPORARY 3' SWING GATE
NOT TO SCALE

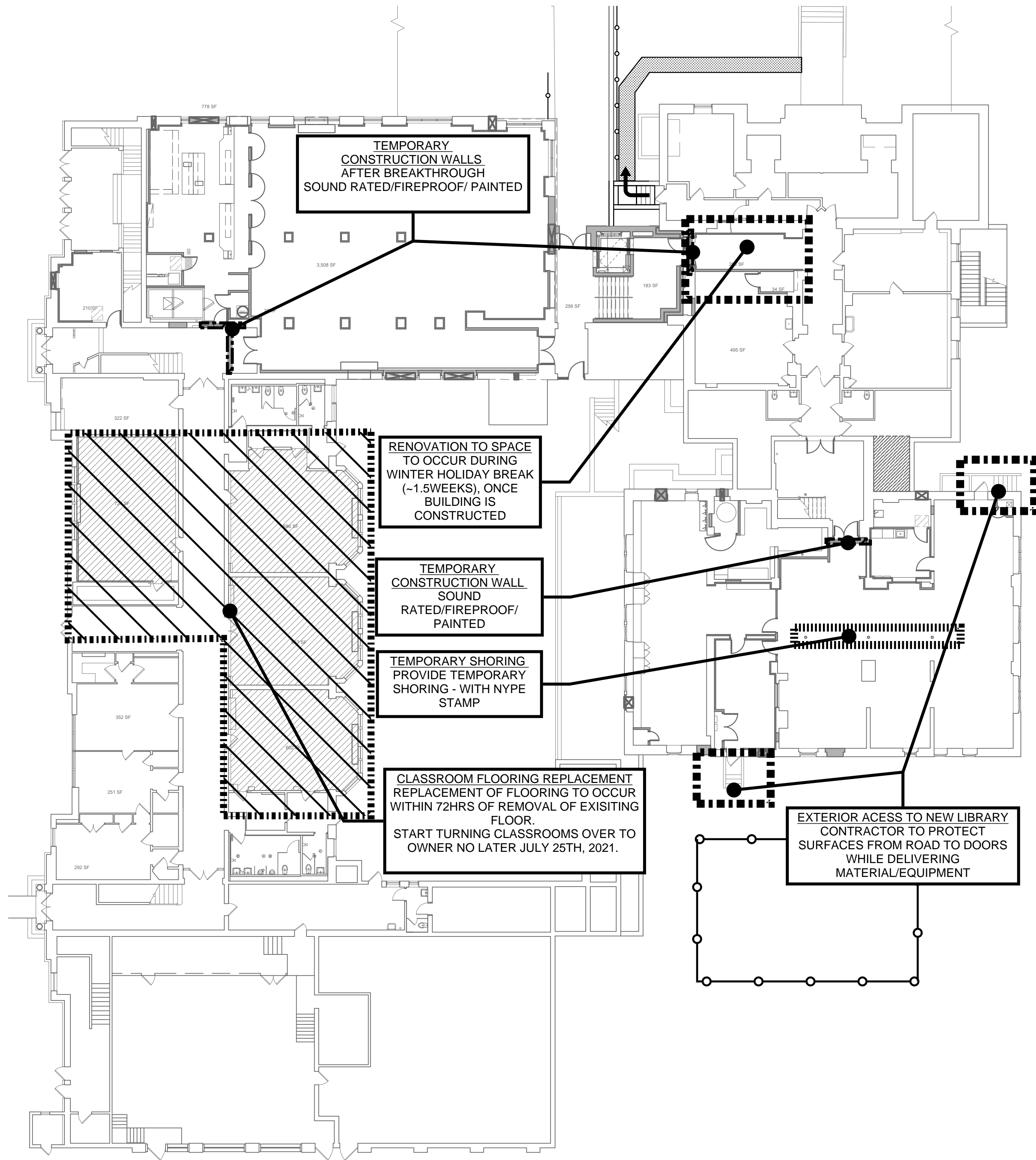


4 DETAIL @ CONSTRUCTION FENCE PANELS
NOT TO SCALE

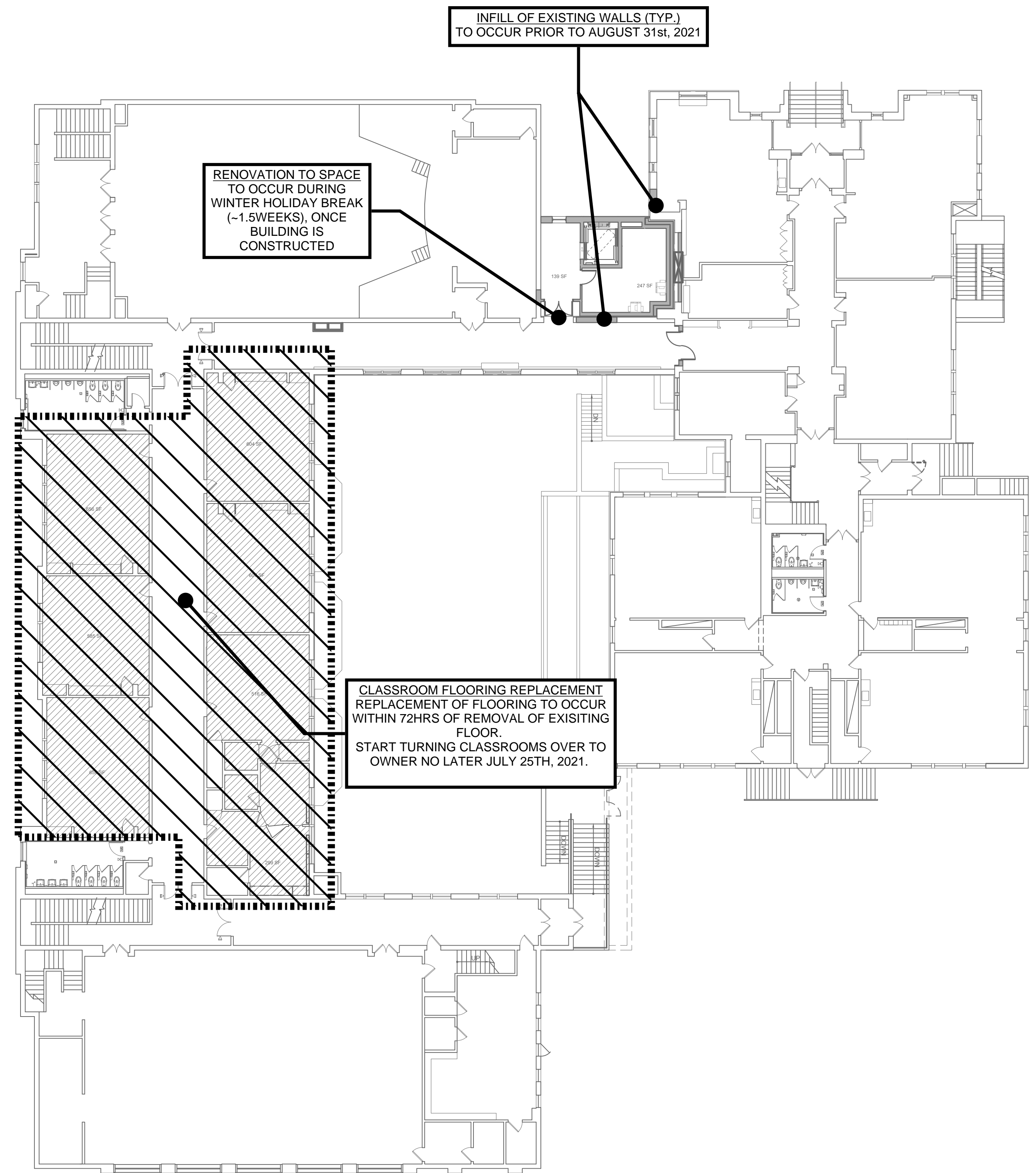


5 DETAIL @ CONSTRUCTION GATE
NOT TO SCALE

Revisions:

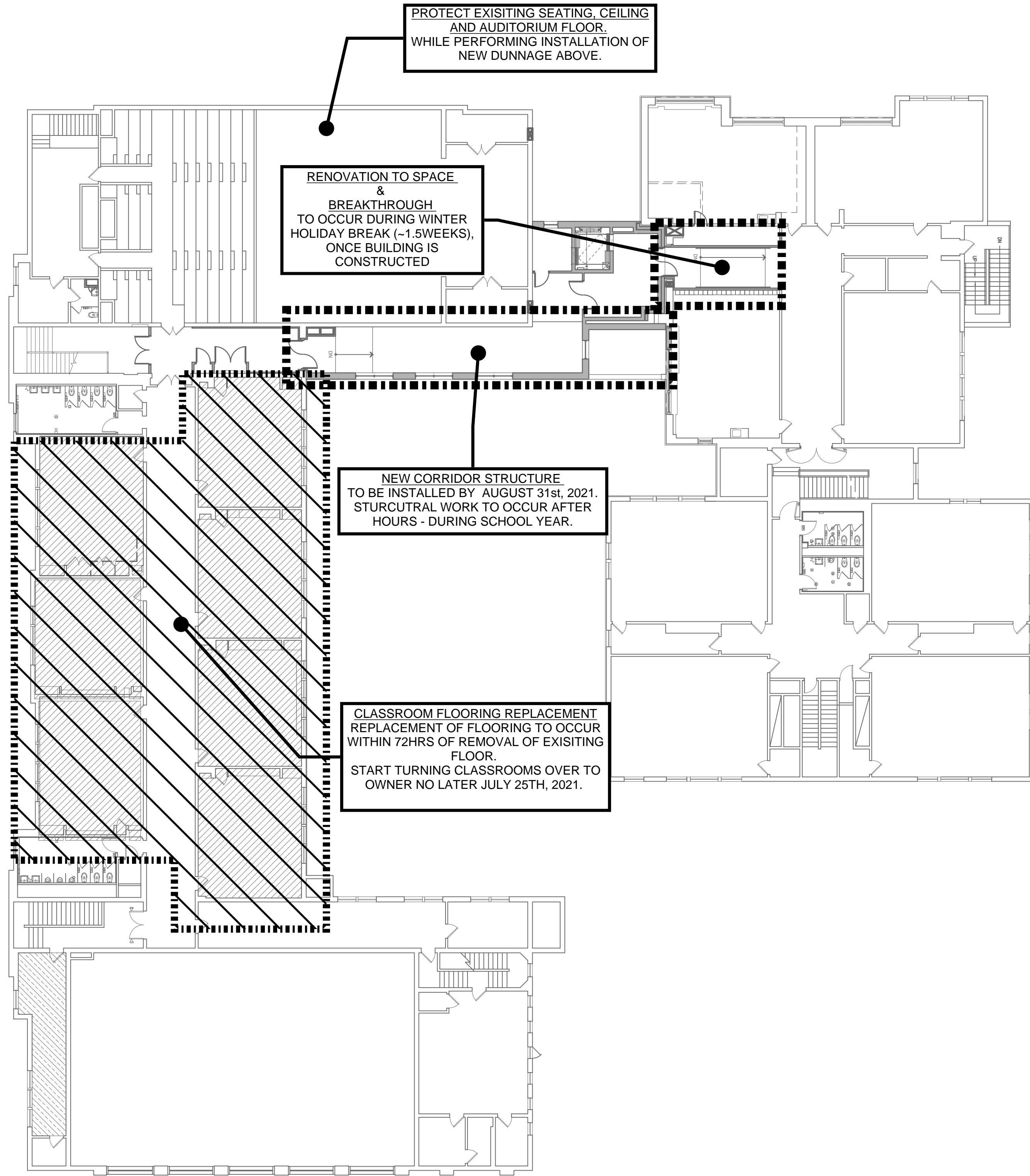


1 FIRST FLOOR - LOGISTICS
SCALE = N.T.S.

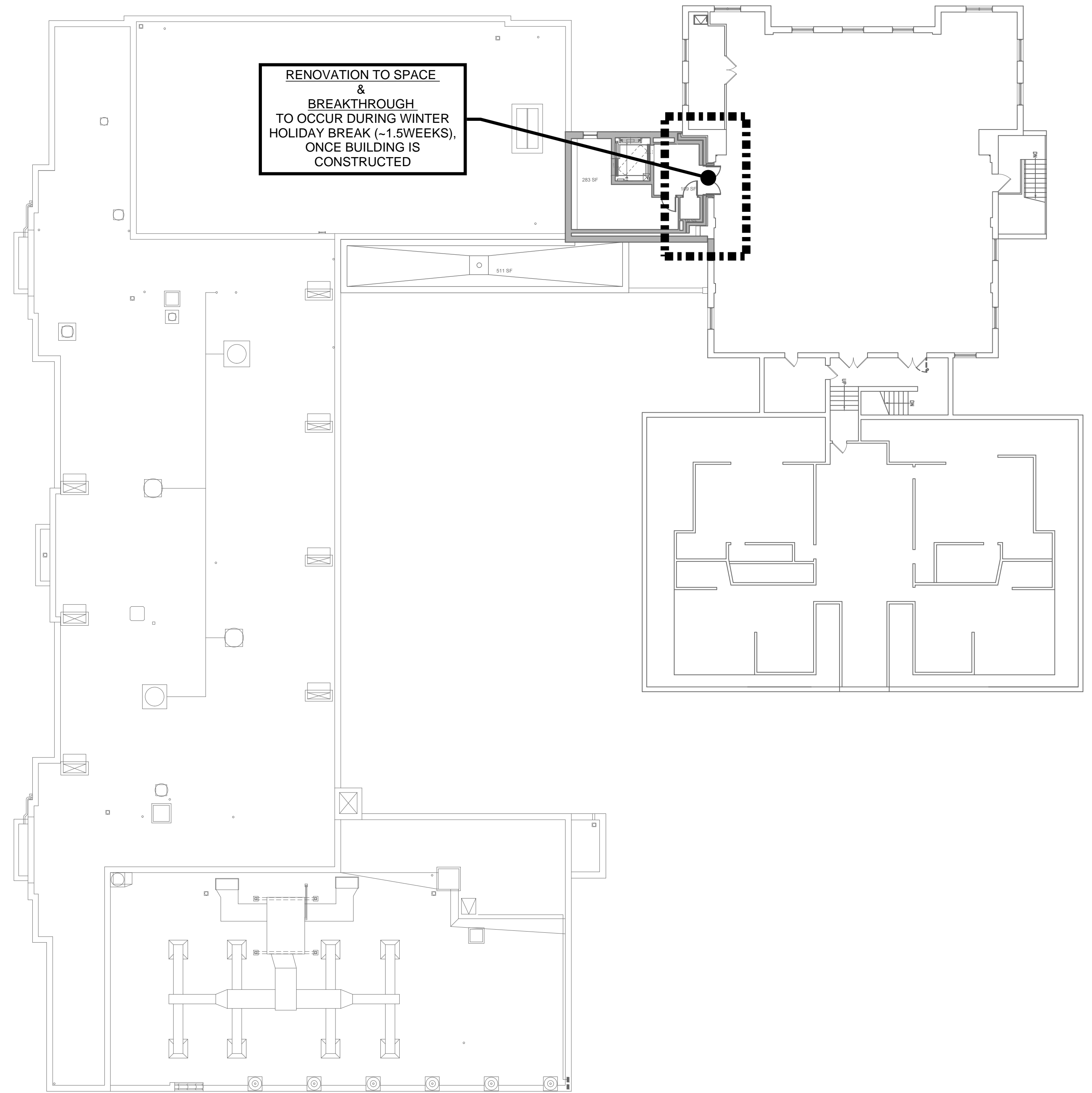


2 SECOND FLOOR - LOGISTICS
SCALE = N.T.S.





1 THIRD FLOOR - LOGISTICS
SCALE = N.T.S.



2 FOURTH FLOOR - LOGISTICS
SCALE = N.T.S.



Date	12/29/20
Checked	
Drawn	
JOHN HANSEN Title: CONSTRUCTION MANAGER License No.: N/A	

Revisions:

TRITON
CONSTRUCTION

2019 BOND REFERENDUM
CHATSWORTH AVENUE ELEMENTARY SCHOOL
MAMARONECK UNION FREE SCHOOL DISTRICT
CHATSWORTH AVENUE, LARCHMONT, NY 10538

Job No. 4.1092.72.03

File No.

SL-3

SECTION 101419 – INTERIOR SIGNS

PART 1 - GENERAL

1.01 SUMMARY

- A. Contractor to provide interior signs for rooms identified in the scope of work. Sign contractor to provide all necessary graphic layouts required for client approvals, complete message schedule keyed to floor plans and allow for three meetings with client to present and finalize signage design.
- B. Section includes: Interior non-illuminated directional, control and information surface mounted signage as complete integrated modular system.
- C. Unit prices: Provide unit price for each type unit in designated system for extra possible required signage.

1.02 REFERENCES

- A. Standards of the following as referenced:
 - 1. American National Standards Institute (ANSI).
- B. Industry standards:
 - 1. Department of Justice, Office of the Attorney General, "Americans with Disabilities Act", Public Law 101-336 (ADA).
 - 2. ANSI A117.1: Providing Accessibility and Usability for Physically Handicap People, 1986 edition.
 - 3. Federal Register Part III, Department of Justice, Office of the Attorney General, 28 CFR Part 36: Nondiscrimination on the Basis of Disability by Public Accommodations and in Commercial Facilities, Final Rule, July 26, 1991.
 - 4. Federal Register Part II, Architectural and Transportation Barriers Compliance Board, 36 CFR Part 1191: Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities; Amendment to Final Guidelines, September 6, 1991.

1.03 DEFINITIONS

- A. Terms:
 - 1. Braille: Grade II Braille including 189 part-word or whole word contractions; see SYSTEM DESCRIPTION Article below.
 - 2. Non-tactile: Letters and numbers on signs with width-to-height ration between 3:5 and 1:1 and stroke width ratio between 1:5 and 1:10 using upper case "X" to calculate ratios. Use Interstate and Helvetica 65 typestyles; upper and lower case lettering is permitted; serif type styles are permitted; see SYSTEM DESCRIPTION Article below.
 - 3. Symbols: Symbol itself is not required to be tactile but equivalent verbal description is required both in tactile letters and Braille for all ADA signage.

4. Tactile: 1/32" raised capital letters without serifs, at least 5/8" height and not more than 2" height based on upper case "X". Braille is required whenever tactile is required; see SYSTEM DESCRIPTION Article below.

1.04 SYSTEM DESCRIPTION

- A. Signage under this section is intended to include items for identification, direction, control and information of building, and to be installed as a complete integrated system.

1. Interior sign plaques

- B. ADA design requirements:

1. Signage requiring tactile graphics:

- a. Wall mounted signs designating permanent rooms and spaces, such as room numbers, restrooms, electrical closets, mechanical rooms and fire stair identifications.
 - b. Individually applied characters are prohibited.

2. Signage not requiring tactile graphics but requiring compliance to other ADA requirements: All other signs providing direction to or information about function of space, such as directional signs (signs with arrow), informational signs (operating hours, policies, etc.), regulatory signs (no smoking, do not enter) and ceiling and projected wall mounted signs.

- C. ADA performance requirements:

1. Tactile graphics sign mounting requirements:

- a. Single doors: Mount 60" to sign centerline above finished floor and on wall adjacent to latch side of door, as shown on drawings.
 - b. Openings: Mount 60" to sign centerline above finished floor adjacent to opening.
 - c. No wall space adjacent to latch side of door, opening or double doors: Mount 60 " to centerline above finished floor on nearest adjacent wall.

- D. VINYL APPLIED CHARACTERS

Vinyl Applied Characters: 3M Series 220 high performance vinyl,

Color: White.

Height: As indicated on Drawings.

Character Style: Helvetica.

1.05 SUBMITTALS

- A. Product data:

1. Manufacturer's signed statement regarding compliance with QUALITY ASSURANCE Article.
 2. Manufacturer's product literature indicating units and designs selected.

3. Evidence of manufacturer's computerized data retrieval program for tracking of project for sign typography, message strip requirements and other pertinent data from schedule input to final computerized typography on finished product.

B. Shop drawings:

1. Indicate materials, sizes, configurations, applicable substrate mountings.
2. Typography sample for message strips and header copy.
3. Artwork for special graphics.

C. Samples:

1. Full size samples for specific sign types, if requested by architect, in colors specified. Samples will not be returned for use in project.
2. Submit 6" x 6" color samples as required by the architect.

D. Contract close out:

1. Furnish appropriate checklist for aiding in reordering after Date of Substantial Completion. Maintain computer schedule program for ordering new signage as required by Owner.
2. Provide an 8½" x 11" re-order form for each sign type and component of each sign type. Forms must be keyed to sign type shown in bid documents using same sign type number.

1.06 QUALITY ASSURANCE

- A. Manufacturer qualifications: Work under this section from manufacturers regularly engaged in work of this magnitude and scope for minimum of five years.
- B. Pre-installation conference: Closely coordinate tolerances required in this section for completely coordinated and smooth installation.
- C. Installer must be regularly engaged in work of this magnitude and scope for minimum of five years.
- D. All work shall conform to applicable codes.

1.07 DELIVERY, STORAGE AND HANDLING

- A. Deliver all signs in fiber board foam, packed and protected for timely installation, minimizing on-site storage time.
- B. Sign contractor to store all signs in a secured area, out of weather and protected, during installation.

1.08 SEQUENCING AND SCHEDULING

- A. Schedule system installation after related finishes have been completed, and in schedule with the project phased construction.

PART 2 - PRODUCTS

2.01 MANUFACTURED UNITS

A. Acceptable product suppliers:

1. Designer Sign Systems, 352 Washington Avenue, Carlstadt, NJ 07072
Phone: (201) 939-5577; Fax: (201) 939-7043 (basis for specifications)
2. Lettera Signs, 1209 Bronx River Avenue, Bronx NY 10472
Phone (718) 991-1000, fax (718)542-4218
3. APCO , 388 Grant Street, SE, Atlanta Georgia,
Phone: 404-688-9000, fax 404-577-3847

2.02 SUBSTITUTIONS

A. Prior to presentation of bid proposals, bidders shall submit to the architect/designer a written request for approval of materials, article or piece of equipment which they propose as equal or superior to that specified.

1. Submissions of such items for consideration by the architect/designer shall be made a minimum of five (5) days prior to bid opening. Submission shall include:
 - a. Specifications or other descriptive literature addressing each of the points called for in the specifications, preferably in the same order as the specifications.
Literature should address only the products the supplier intended to provide, not the manufacturer's entire product line.
 - b. Submissions must be addressed to architect or as directed by owner.
Ref. SPECIFIC JOB NAME

B. If, in the judgment of the architect/designer, the material, article or piece of equipment is acceptable, approval will be given in an addendum (a) issued to all bidders on record by the architect/designer, a minimum of five (5) days prior to bid opening.

2.03 ADA and SUBSURFACE PLAQUE CONSTRUCTION

- A. Tactile copy and Grade II Braille are to be precision embossed a minimum of .032" and formed as an integral part of the sign face. Braille is to be the same color as the sign background with no interruption of the smooth, clean surface of the sign. All plaque edges to be clean, smooth, free of all saw and tooth marks and painted to match the background color of the sign. ADA compliant fabrication is required for all signs. Phenolic photopolymer is NOT acceptable. Lettering, Braille and symbols to be raised 1/32". Braille cell to be 1/4", character height to be 5/8" min., 2" max. Interline spacing to be half of cap height. Braille cell to be 1/4" min. below line of copy above.
- B. Manufacturer's standard embossed, monolithic tactile plaque sign construction to meet relevant ADA requirements indicated for materials, thickness, finish, colors, designs, shapes, sizes and details of construction. Installed dimensional tolerances to be plus/minus 1/32".
 1. Sign Face: .010" transparent polycarbonate with a mar resistant ADA compliant fine velvet finish; precision embossed to form copy and Grade II Braille as an integral part of the sign face. Background color is applied subsurface. Copy colors are a subsurface applied abrasion resistant pigment with a satin finish. Embossed copy and Braille cavities are backfilled,

providing solid copy and Braille. Braille is the same color as the sign face background with no interruption of the surface of the sign face. Sign face is laminated to .125" plastic base.

2. Raised copy/Braille: Sign copy and Braille to be raised 1/32" min. from plaque first surface by by manufacturer's embossing process. Precisely formed, uniformly opaque Braille to meet relevant ADA regulations and the requirements indicated for size, style, spacing, content, position and colors. Embossed graphic cavities are backfilled providing solid copy and Braille. Translation of sign copy to be the responsibility of the manufacturer.
3. Subsurface reverse screened acrylic sign components, consisting of .080 matte acrylic panels laminated to 1/8 clear acrylic back plate. All edges to be clean and smooth free of any tooling marks. Screen printed images to be produced with screen mesh suitable to provide consistent crisp, clear images (minimum 280 mesh).
4. All symbols and letter forms are to faithfully reproduce specified letter, alpha/numeric and symbol forms.
5. Mounting: Plaque sign mounts with 3M 1/32" double-sided vinyl tape, or foam tape. (VERIFY WALL PAINT FINISH TO DETERMINE PROPER TAPE TO BE USED).
Option: Mechanical mounting using tape mounting as noted above and also using 4 tamper proof screws to nylon wall shields for masonry and sheet rock construction.

2.04 FABRICATION

A. Shop Assembly:

1. Fabricate units to configurations indicated on reviewed shop drawings. Internally reinforce units in accord with reviewed shop drawings.
2. Provide copy required on inserts, message strips, headers or bases and covers required on reviewed shop drawings and in accord with ADA requirements.
3. Fill directories with combination of reviewed copy on message strips on blank message strips.
4. Wrap each individual unit with clear polyethylene (see-through) pack and ship by floor in numerical order, tagged sequentially to message schedule.
5. A final copy of the message schedule provided in this bid package is to be provided to the client for their review and approval prior to any fabrication.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Verification of conditions:

1. Examine areas to receive signage; notify architect/designer in writing of unacceptable substrate.
2. Beginning work indicates acceptance of substrate. Subsequent modifications to substrate or modules becomes this section's complete responsibility.

3.02 INSTALLATION

- A. Contact the architect/designer if there are any questions as to suitability of the installation location or installation surface.
- B. Install signs in locations with mounting types indicated in accord with reviewed shop drawings. Square, plumb and level units.
- C. Install inserts not more than 48 hours prior to Date of Substantial Completion complete with correct copy in place. Conform to ADA requirements for tactile graphics signage.

3.03 CLEANING

- A. Clean exposed surfaces using non-abrasive cleaning agents such as soap and water or as recommended by manufacturer not more than 48 hours prior to Date of Substantial Completion in accordance with manufacturer's written cleaning instructions.
- B. Maintain signs according to maintenance instructions as provided by the manufacturer.

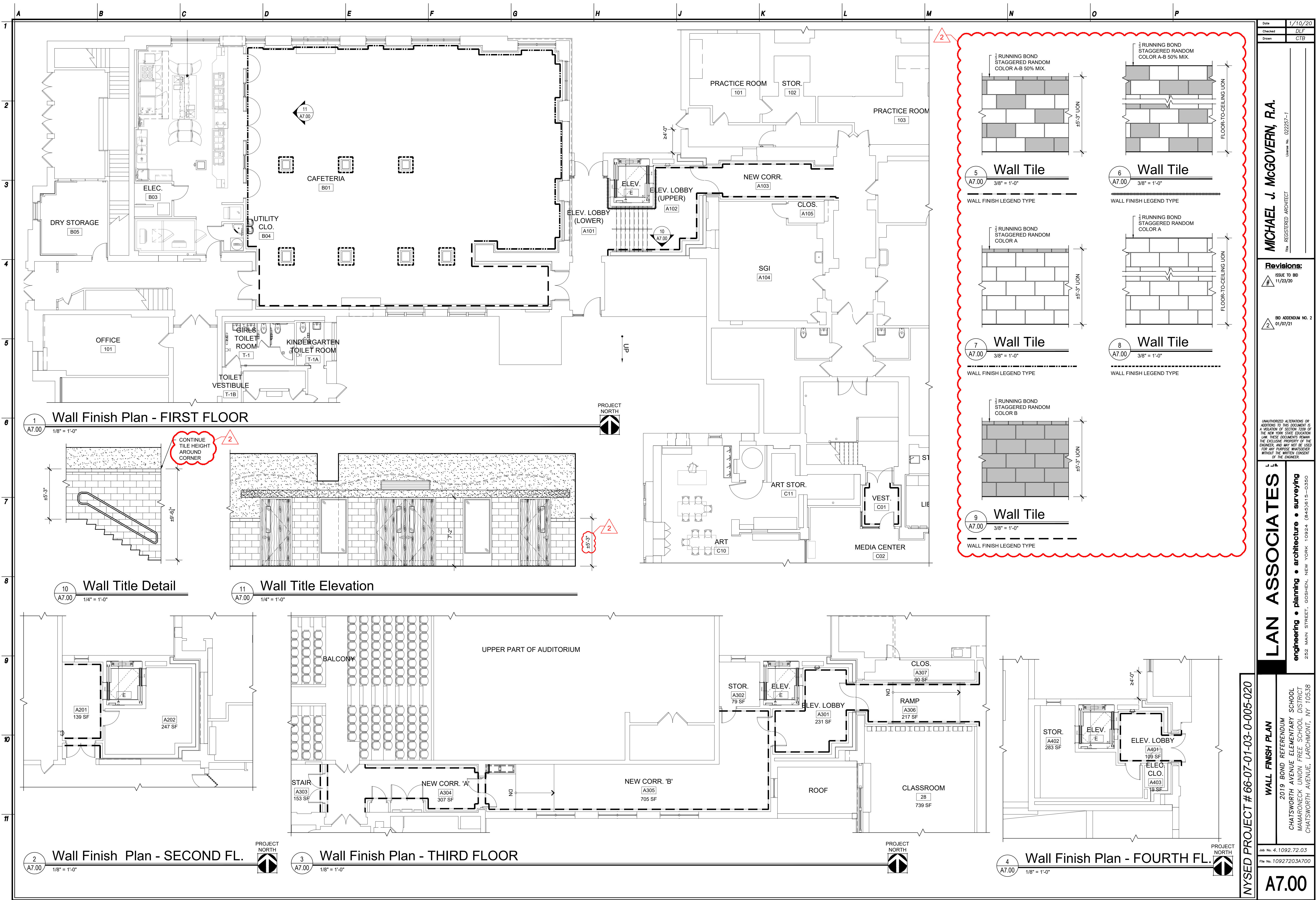
3.04 SCHEDULES

- A. Contractor to coordinate schedule with Owner.
- B. Refer to Room Finish Schedule for Signage Requirements.

- Set 1: Assembly Spaces/ Offices / Storage / Janitor's Closets/ Mechanical Rooms/ Kitchen
Room name and room number; Words and numbers must be converted to Grade 2 Braille and applied to the sign.
- Set 2: Toilet Rooms
Room name and number; ADA and sex pictograms. Words and numbers must be converted to Grade 2 Braille and applied to the sign. ADA room signage shall be provided as detailed on drawing A6.11 and the requirements of the New York State Education Department.
- Set 3: Stair
Room name, stair designation, stair pictogram; Words and numbers must be converted to Grade 2 Braille and applied to the sign.
- Set 4: Classrooms
Room name and room number; Words and numbers must be converted to Grade 2 Braille and applied to the sign. Interchangeable teacher name plate insert.
- Set 5: Maximum Occupancy Signs
Maximum occupancy for places of assembly, Maximum Occupancy signage shall be provided as detailed on drawings and per the requirements of the New York State Education Department.

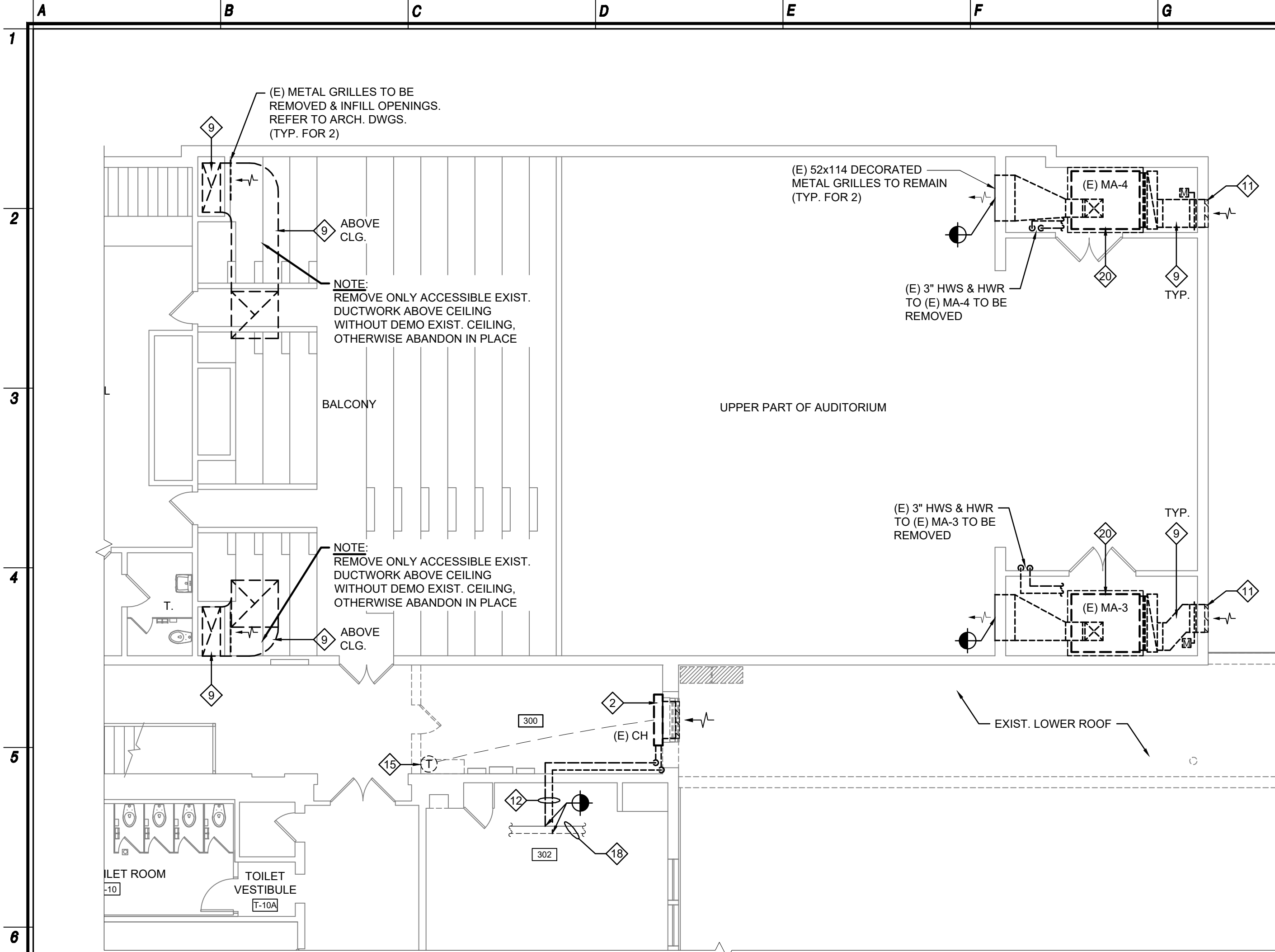
END OF SECTION 101419

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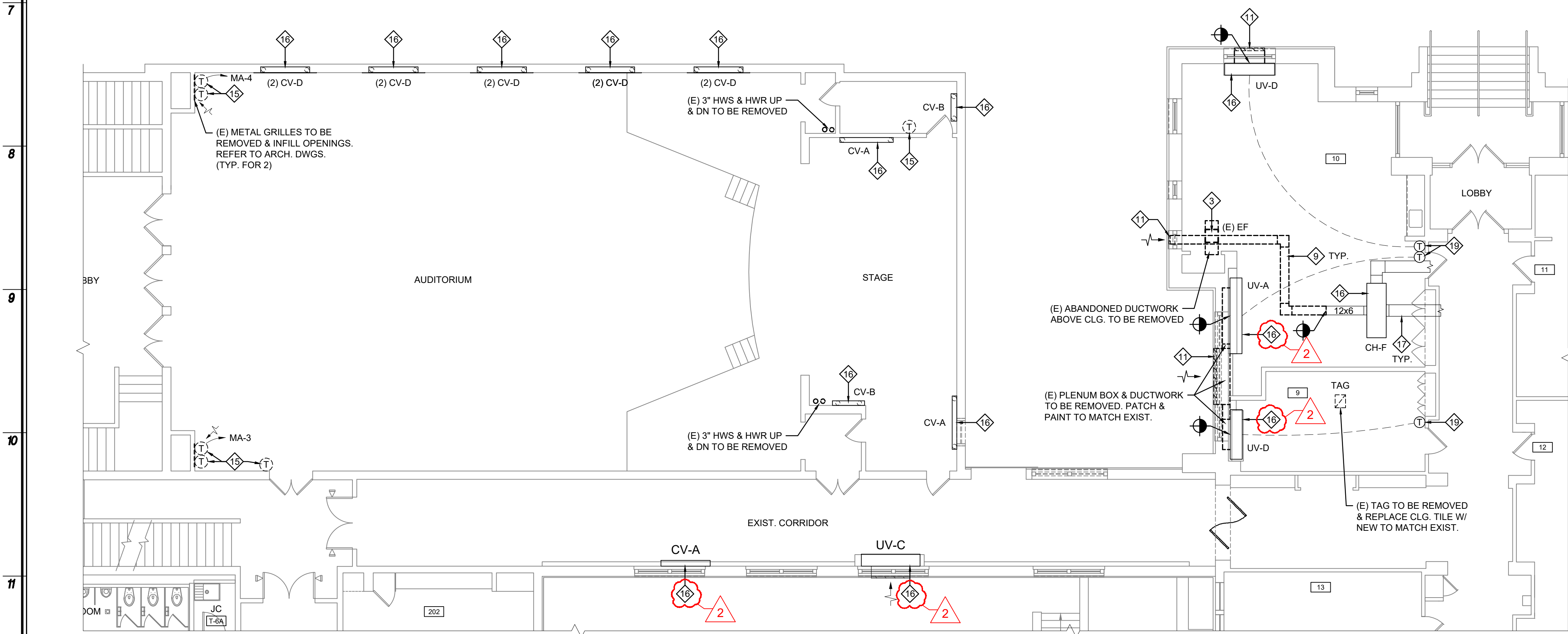


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Checked	IM		
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MICHAEL J. McGOVERN, R.A.		022557-1	
REGISTERED ARCHITECT		License No.	
ISSUES:		2	
Revision to BID		BID ADDENDUM No. 2	
11/23/20		01/07/21	
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MECHANICAL NOTES		LAN ASSOCIATES	
2019 BOND REFERENDUM		engineering • planning • architecture • surveying	
CHATHSWORTH AVENUE ELEMENTARY SCHOOL		232 MAIN STREET, GOSHEN, NEW YORK 10924 (845)515-0350	
MAMARONECK AVENUE FREE SCHOOL DISTRICT			
CHATHSWORTH AVENUE, LARCHMONT, NY 10538			
Job No. 4,1092.72.03		File No. 10927203M201	
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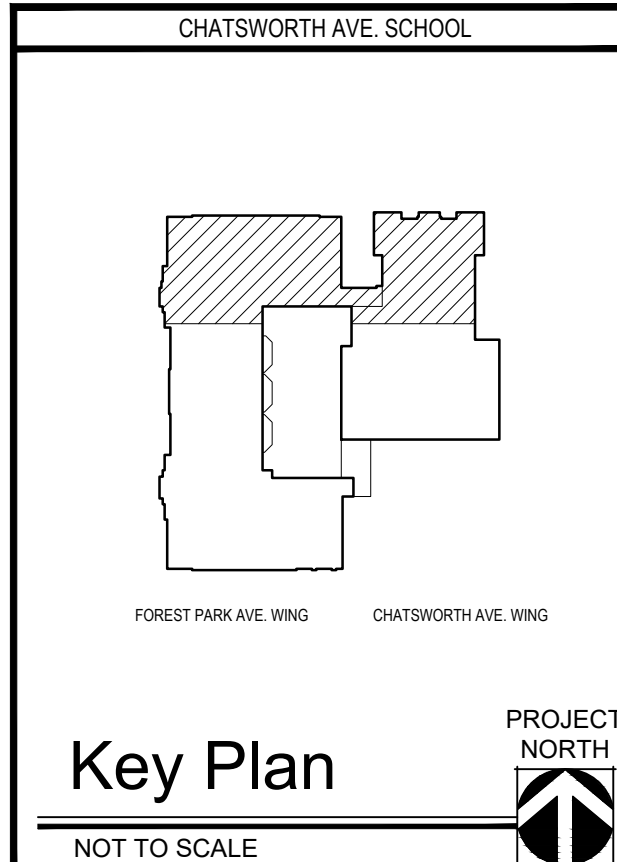
2 Partial Third Floor Mechanical Demolition Plan
M1.02 1/8" = 1'-0"



1 Partial Second Floor Mechanical Demolition Plan
M1.02 1/8" = 1'-0"

DEMOLITION KEY NOTES	
2	EXIST. FLOOR-MOUNTED VERTICAL CABINET HEATER (CH) TO BE REMOVED, COMPLETE W/ ASSOCIATED EXIST. DUCTWORK, PIPING, VALVES, LOUVERS, ELECTRICAL, SUPPORTS, CONTROLS, ETC.
3	EXIST. CEILING-MOUNTED EXHAUST FAN (EF) TO BE REMOVED, COMPLETE W/ ASSOCIATED EXIST. DUCTWORK, INLETS, LOUVERS, ELECTRICAL, SUPPORTS, CONTROLS, ETC.
9	EXIST. DUCTWORK & RELATED DAMPERS, INSULATION, SUPPORTS, FILTERS, CONTROLS, ETC. TO BE REMOVED.
11	EXIST. EA / FAI LOUVERS / WALL CAP TO BE REMOVED. INFILL OPENING TO MATCH EXIST. REFER TO ARCH. DWGS.
12	EXIST. HWS & HWR PIPING TO BE REMOVED. CAP PIPE OPENINGS ON EXIST. MAINS. VERIFY IN FIELD.
15	EXIST. THERMOSTAT & SENSOR & RELATED CONTROL WIRING, ETC. TO BE REMOVED. INFILL OPENING & PAINT TO MATCH EXIST.
16	EXIST. MECHANICAL EQUIPMENT (AHUs, ACs, UVs, CHs, CVs, EFs, ETC.) TO REMAIN.
17	EXIST. DUCTWORK & RELATED DAMPERS, INSULATION, AIR INLET/OUTLET, SUPPORTS, FILTERS, CONTROLS, ETC. TO REMAIN.
18	EXIST. HWS & HWR PIPING TO REMAIN.
18A	EXIST. HWS & HWR PIPING RISER UP ABOVE 1ST FLOOR CLG., IN PIPE ENCLOSURE AND PIPING RISER DN BELOW 1ST FLOOR SLAB TO REMAIN.
19	EXIST. THERMOSTAT & SENSOR TO REMAIN.
20	EXIST. FLOOR-MOUNTED MAKEUP AIR (MA) UNIT TO BE REMOVED, COMPLETE W/ ASSOCIATED EXIST. DUCTWORK, PIPING, VALVES, LOUVERS, CONCRETE PAD, ELECTRICAL, SUPPORTS, CONTROLS, ETC.

- GENERAL DEMOLITION NOTES
- SIZES & LOCATIONS OF EXIST. MECH. EQUIPMENT, DUCTWORK, AIR INLETS/OUTLETS, PIPING, ETC. SHOWN ON DRAWINGS ARE BASED ON SITE OBSERVATIONS & THEY ARE APPROXIMATE. SOME OF DUCT & PIPE ROUTING COULD BE DIFFERENT FROM THAT SHOWN. MC IS REQUIRED TO PROVIDE DUCTWORK SHOP DRAWINGS IDENTIFYING THEM.
 - NOT ALL EXIST. DUCTWORK, PIPING & UTILITIES ARE SHOWN ON DRAWINGS. VERIFY IN FIELD.
 - GC IS RESPONSIBLE TO REMOVE EXIST. SUSPENDED CEILING SYSTEM, GRIDS & TILES TO ACCOMMODATE MECHANICAL DEMOLITION. REINSTALL TO MATCH EXISTING. REMOVE & REPLACE ALL DAMAGED TILES. MODEL & STYLE OF NEW CLG. TILES SHALL MATCH EXISTING.
 - EC IS RESPONSIBLE TO TEMPORARILY REMOVE/RELOCATE EXIST. LIGHT FIXTURES, ELECTRICAL DEVICES, FIRE ALARM & COMMUNICATION DEVICES, ETC. TO ACCOMMODATE MECH. DEMOLITION. REINSTALL TO MATCH EXISTING. CHECK IN FIELD.
 - GC IS RESPONSIBLE TO PATCH ALL OPENINGS ON CLGS, WALLS & ROOF WHERE EXIST. MECH. EQUIPMENT, DUCTWORK & PIPING ARE REMOVED. INFILL & PATCH W/ SUITABLE MATERIALS & PAINT TO MATCH EXISTING.
 - GC IS RESPONSIBLE TO PROPERLY PROTECT EXIST. FLOORS, WALLS, CEILING, FURNITURE, EQUIPMENT, ETC. DURING CONSTRUCTION. ALL DAMAGED ITEMS SHALL BE REPAIRED / REPLACED AT EXPENSE OF THE GC.
 - MC IS RESPONSIBLE TO ISOLATE/SHUTDOWN & DRAIN-DOWN EXIST. HOT WATER HEATING PIPING SYSTEM TO ACCOMMODATE REMOVAL OF EXIST. HWS/HWR PIPING ASSOCIATED W/ DEMOLISHED MECH. EQUIPMENT AND INSTALLATION OF NEW MECH. EQUIPMENT & PIPING. RESTORE THE SYSTEM AFTER ALL WORK IS COMPLETE.
 - MC TO REMOVE ALL EXIST. CONTROLS & RELATED WIRING & CONDUITS, ETC. WHICH BECOME OBSOLETE, WHETHER OR NOT SHOWN ON DWGS. GC TO PATCH AND PAINT WALLS TO MATCH EXISTING.



Date1/10/20

CheckedMAM

DrawnIM

MICHAEL J. MCGOVERN, P.A.

REGISTERED ARCHITECT

License No. 022257-1

Revisions:

ISSUE TO BD

11/23/20

BD ADDENDUM NO. 2

01/23/21

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LAN ASSOCIATES

engineering • planning • architecture • surveying

252 MAIN STREET, GOSHEN, NEW YORK 10924 (845) 815-0350

MECHANICAL DEMOLITION PLANS

2019 BOND REFERENDUM

CHATSWORTH AVENUE ELEMENTARY SCHOOL

MAMARONECK UNION FREE SCHOOL DISTRICT

CHATSWORTH AVENUE, LARCHMONT, NY 10538

Job No. 4.1092.72.03

File No. 10927203M201

NYSED PROJECT # 66-07-01-03-0-005-020

M1.02