

SECTION 01 12 00 - SUMMARY OF PROJECT**PART 1 - GENERAL****1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including the General and Supplemental Conditions and Division 1 Specification Section, apply to this Section.

1.2 SUMMARY**A. Section includes:**

- 1. Project information.
- 2. Work covered by Contract Documents.
- 3. Construction schedule.
- 4. Requirements and assignments for each Contract.
- 5. Owner-furnished products.
- 6. Access to site.
- 7. Coordination with occupants.
- 8. Work restrictions.

- B. Section includes a summary of each contract, including responsibilities for coordination and temporary facilities and controls.

- C. Each Contractor is responsible to review all Drawings and Specifications for every contract to gain a complete understanding and knowledge of the entire Project, to determine how the work of each contract is to interface with every other contract.

1.3 DEFINITIONS

- A. Permanent Enclosure: As determined by Architect, the condition at which roofing is insulated and weathertight; exterior walls are insulated and weathertight; and all openings are closed with permanent construction; and all exterior joints are sealed.

1.4 PROJECT INFORMATION

- A. Project Identification: Additions and Alterations to: Port Jervis Middle School.

- 1. Project Location: 118 East Main Street, Port Jervis, New York 12771.

- B. Owner: Port Jervis City School District.

- 1. Address: 9 Thompson Street, Port Jervis, New York 12771.

- C. Architect: BCA ARCHITECTS & ENGINEERS

- 1. Address: 798 Cascadilla Street, Suite C, **Ithaca**, New York 14850

- D. Construction Manager: Luis Rodriguez – The Palombo Group

1. Address: 195 Front Street, 1st Floor, Newburgh, New York 12550.
 2. Construction Manager has been engaged for this Project to serve as an advisor to Owner and to provide assistance in administering the Contract for Construction between Owner and each Contractor, according to a separate contract between Owner and Construction Manager.
- E. Project Representative: Project Representative will be appointed by Owner.
1. Project Representative will provide assistance in administering the Contract for Construction between Owner and each Contractor, according to provisions of Division 01 Section "Project Management and Coordination".
- F. Building Code in Effect for Project: New York State Uniform Fire Prevention and Building Code and the Energy Conservation Construction Code of New York State.
1. Comply with the following: New York State Energy Conservation Code and the building standards of the New York State Education Department.

1.5 THE CONTRACT

- A. The Project will be constructed under a multiple prime contracting arrangement with the Owner awarding and holding the separate Contracts. Each contractor shall furnish all labor, material, tools, equipment, supervision, layout, delivery, trucking, shop drawings, submittals, etc. necessary to complete the work described in the Division of Work of their respective Contracts and based upon a complete set of Contract Documents.
- B. Scope of work for each Prime Contractor is defined in Section 01 12 00 and takes precedence over all drawing notes that may refer to scoping.
- C. Each Contractor has been given the opportunity prior to bid to inspect the entire Project site for interferences to their Contract work and agrees to accept the site as it exists on the date of the bid opening.
1. It is the Owner's intention to continue to occupy the existing buildings and site for normal School operations during the Construction process. The Contractors all agree to:
 - a. Cooperate with the Owner's personnel in maintaining and facilitating access to the School's buildings and its facilities by the School staff, Students, Owner's agents, service consultants and the public, throughout the construction process.
 - b. Keep driveways and entrances serving the occupied School buildings clear and available to the Owner, the Owner's employees, the public, and to emergency vehicles at all times. Do not obstruct access to, or use these areas for parking, staging of equipment or materials. All access through these existing areas must be coordinated in advance and in accordance with the Owner's usage and occupancy schedule.
 - c. Schedule construction operations so as to minimize any conflicts or interruptions to the daily school functions. Disruptive construction procedures will be performed on off hours when the building is not occupied by students. Coordinate any necessary interruptions with the designated project representative.
 - d. All existing Owner-occupied areas of buildings (not turned over to the Project Contractors) are to remain operational at all times. The contractors are responsible to maintain all systems, such as but not limited to: fire alarm, clocks, electric, public address system, gas service, heat etc.

D. Each Prime Contractor shall:

1. Provide field-engineering services, in addition to those provided by the General Work Prime Contract, to install site utilities included in the applicable Prime Contract.
2. Coordinate construction schedule information in order to formulate one master schedule for the entire Project.
3. Provide reflective vests to be worn by all personnel, while on the site. Parties that do not abide by this requirement will be escorted off the premises.
4. Provide erosion and Sediment Control and dewatering as it relates to any excavation associated with its own Prime Contract.
5. Provide potable drinking water for its own employees.
6. Provide access to all concealed systems as required for system maintenance and repair for items installed in their Prime Contract. This specifically talks to access panels needed for future maintenance by the district.
7. Provide and maintain material lifting equipment required for the completion of their Contract requirements, and complying with NYS Labor Laws, OSHA Regulations, and other Federal, State, and local laws.
8. Provide and maintain additional temporary stairs, ladders, ramps, scaffolding, and platforms required specifically for completion of work of their own Contract, and as further detailed in this section. All work needs to comply with the NYS Labor Laws, OSHA regulation, and other Federal, State, and local laws.
9. Provide Fire Prevention materials and equipment for fire protection related to the work of their own Prime Contract. Provide fire extinguishers, fire blankets, and fire watch during all cutting and welding operations.
10. Provide any supplemental lighting required to install the work of its own Contract, beyond the minimum OSHA levels provided under the Electrical Work Prime Contract.
11. Provide any supplemental heat required to install the work of its own Contract, beyond the levels owed by the General Work Contractor.
12. Provide traffic control for deliveries, and equipment needed to perform the work of their own Prime Contract.
13. Provide protection of its own finished Work, after installation, until accepted by the Owner.
14. Provide fire caulking for any penetration related to the work for its own Prime Contract.
15. Provide any office and storage trailers required to complete the work of their own Prime Contract.
16. Provide final cleaning as specified.
17. Provide for a thorough final cleaning of the site, building, and equipment provided under their Prime Contract immediately before the final inspection. Each Prime Contractor is responsible for cleaning and dust and debris generated from the work of their own Contract.
 - a. Maintain areas in a cleaned condition until the Owner occupies the space.
 - b. Personnel: Experienced workman or professional cleaners approved by the Construction Manager.
18. Each Prime Contractor shall provide their own selective demolition, in regard to the Hazardous Materials Contractor. All piping, conduit, ductwork, lighting, UVs or other items shall be removed by the assigned contractor down to the point of attachment to the substrate.

1.6 SUMMARY OF WORK

- A. The work will be constructed under multiple prime contracts. One set of contract documents is issued covering the multiple contracts. Each Prime Contract is defined as:

1. CONTRACT 1 GC1- GENERAL CONSTRUCTION

2. CONTRACT 2 SC1- SITE CONSTRUCTION
3. CONTRACT 3 MC1- MECHANICAL CONSTRUCTION
4. CONTRACT 4 EC - ELECTRICAL WORK
5. CONTRACT 5 PC- PLUMBING WORK
6. CONTRACT 6 AB - HAZARDOUS MATERIALS WORK- *For Reference Only*
7. CONTRACT 7 FS1- FOOD SERVICE EQUIPMENT
8. CONTRACT 8 FP1- FIRE PROTECTION WORK- *For Reference Only*
9. CONTRACT 9 WC- WINDOWS

1.7 WORK UNDER SEPARATE CONTRACTS

- A. The project will be constructed under a multiple-prime contracting arrangement
- B. One set of documents is issued covering all multiple prime contracts. Each prime contractor is to review ALL drawings and specifications for complete understanding and knowledge of the work.
- C. The following Contract Documents are specifically included and defined as integral to each Prime Contract.
 1. Bidding Requirements
 2. Performance and Payment Bonds
 3. Conditions of the Contract, including
 - a. General Conditions & Supplementary Conditions
 - b. Insurance Requirements
 - c. NYS Prevailing Wage Rates.
- D. Extent of Contract: Unless the Contract Documents contain a more specific description of the Work, names and terminology on Drawings and in Specification Sections determine which contract includes a specific element of Project.
 1. Unless otherwise indicated, the Work described in this Section for each contract shall be complete systems and assemblies, including products, components, accessories, and installation required by the Contract Documents.
 2. The General Construction Work Contract shall provide shoring and bracing and excavation for all work within the new building addition. The General Construction Work contractor is to refer to Mechanical, Electrical and Plumbing drawings for locations of utilities requiring shoring, bracing, excavation and backfilling.
 3. Concrete for the Work of each contract shall be provided by either the holder of CONTRACT GC1 for ALL INTERIOR concrete, or CONTRACT SC1 for ALL EXTERIOR concrete.
 4. Provide all cutting & patching associated with the Work of its Prime Contract. All patching is to be performed by mechanics qualified and experienced with the materials and finishes being patched and hired by the responsible Prime Contractor.
 5. Firestopping for the Work of each contract shall be provided by each contract for its own Work. Firestopping shall comply with Division 7 Section "Through Penetration Firestop Systems".
 6. Access doors not shown on Architectural drawings and required for access to junction boxes, valves, and similar equipment for the Work of each contract shall be furnished by each contract for its own Work to the General Construction Contractor for installation. *(Unless noted otherwise, installation by the General Construction Contractor is N.I.C., and will be accomplished by use of a portion of the contingency allowance).*

7. Lead Based Paint precautions for the Work of each contract shall be provided by each contract for its own Work. Each Prime Contractor shall provide procedures for OSHA Lead precautions.
 8. Each Prime Contractor shall designate a full-time superintendent to supervise the work of the Prime Contractor, who shall always be present on the job site when work is being performed; this person shall be familiar with Project and authorized to conclude matters relating to progress. This person shall also represent their company at weekly contractor meetings.
 9. Termination and removal of its temporary facilities shall be provided by each contract for its own Work.
- E. Temporary Facilities and Controls: In addition to specific responsibilities for temporary facilities and controls indicated in this Section and in Division 1 Section 01 50 00 "Temporary Facilities and Controls," each Contract is responsible for the following:
1. Installation, operation, maintenance, and removal of each temporary facility usually considered as its own normal construction activity, and costs and use charges associated with each facility
 2. Generators, plug-in electric power cords and extension cords, supplementary plug-in task lighting, and special lighting necessary exclusively for its own activities.
 3. Its own field office, complete with necessary furniture, utilities, and telephone service. The General Construction Contract GC1, is responsible for the Construction Managers Field office as per the specifications.
 4. Its own storage and fabrication sheds.
 5. Temporary heat for construction at isolated work areas.
 6. Temporary enclosures for its own construction activities.
 7. Hoisting requirements for its own construction activities.
 8. Each Prime Contractor is to stockpile his debris daily and place it in the dumpster(s). Dumpsters will be provided by the GC #1 contract for use by the prime contractors, recycling of materials will be instituted daily. All debris shall be broken down and/or flattened prior to placement in dumpsters, e.g. ductwork, casework. Recycling is encouraged. Waste disposal facilities, including collection and legal disposal of its own hazardous, dangerous, unsanitary, or other harmful waste materials will be by the Hazardous Material Abatement Contractor.
 9. Secure lockup of its own tools, materials, and equipment.
 10. Construction aids and miscellaneous services and facilities necessary exclusively for its own construction activities.
 11. Safety procedures as dictated by the district, OSHA, and the NYS Department of Labor.
 12. Labor for daily clean-up.
- G. State Contract Purchases/Co-Operative Purchases. This project includes systems, fixtures and equipment that will be purchased separately by the owner through the State Contract/Co-Operative Purchasing programs. Every effort has been made to identify and notate, on the Drawings and in the Project Manual, all systems, fixtures and equipment that will be purchased through these programs. All Prime Contractors are required to coordinate with these outside vendors/contractors. The scope of these co-operatively purchased/state contract purchases is listed below for your reference:
1. Lockers
 2. Casework and Music Storage
 3. Architectural Millwork
 4. Bleachers, Gym Equipment & Wall Pads, Scoreboards, Basketball Backboards and Winches.

H. The Owner intends to procure Controls Work through a State Contract agreement. The buildings are currently controlled by a combination of original pneumatic controls, electric controls, standalone electronic controls, and a partial direct digital control (DDC) automation system. Final intent is to have essentially all control systems removed and replaced with a new single Electronic Digital Energy Management and Control System utilizing new components and programming as specified in section 23 09 23 and as shown on the drawings. The owner will purchase the control components and turn over to the Mechanical Contractor, who will be responsible for the installation, wiring, programming, and commissioning of all controls. Please note Division 23 – Section 23 09 23 Direct Digital Control System for HVAC is included in the Mechanical Contract and other Prime Contracts for coordination and ancillary work purposes only. The Mechanical Contractor is responsible for having a Temperature Controls Sub-Contractor who shall be a factory trained and authorized Invensys Controls Contractor (i.e. Stark “TBS Controls”). The Temperature Controls Sub-Contractor will have the following responsibilities:

1. Coordination with the Mechanical Contractor, Plumbing Contractor, and other Prime Contractors as required.
 - a. Furnish all components to be installed by other Prime Contractors in ample time to be installed within the construction schedule.
2. Demolition, including removal and proper disposal of the following equipment and material:
 - a. Demolition of existing thermostats and the removal of the existing digital/pneumatic controllers, except electronic stand-alone controls for split air conditioning systems shown as existing to remain with new monitoring controls.
 - b. All control tubing associated with components being removed or already abandoned in equipment rooms and the existing ceiling spaces above corridors and occupied spaces.
 - c. The controls air compressors, driers, filters and miscellaneous equipment associated with the controls air supply system, including all power wiring of the compressors and driers back to the distribution power panel.
 - d. All existing temperature control panels including the contents, and legal disposal of same including mercury switches.
 - e. All existing pneumatic damper actuators.
 - f. All pneumatic and electric relays, enclosures and unused conduit and tubing.
 - g. Remove abandoned wiring, except existing wire mold may be left abandoned in place.
3. New Work:
 - a. Provide controls complete as required for the mechanical work as specified and as shown on the drawings, except for ancillary work by the other Prime Contracts as described in this section and as described in section 23 09 23.
 - b. Division 23 – Section 23 09 23 Direct Digital Control Systems for HVAC along with all other referenced Division 23 technical sections, Divisions 26 and 27, and all referenced codes and standards, are part of this contract.

1.8 CONTRACT 1 - GENERAL CONSTRUCTION WORK-

- A. The Work of the General Construction Work Contract includes but is not limited to, the following descriptions:
1. Includes Architectural, Structural, Masonry, Roofing, Finishes, Blocking for Casework and Equipment, plus other construction operations traditionally recognized as General Work Construction. This includes, but is not limited to, *work shown* on the following:
 - a. Drawings:
 - 1) All “L” series Drawings (Civil)

- 2) All "S" series Drawings (Structural)
- 3) All "A, AS, AR, AD" series Drawings
- 4) All "FSE" series Drawings (Food Service)
- 2. Coordination:
 - a. Coordination with the work of all the other contractors.
 - b. General Work Contractor and Hazardous Materials Work Contractor are to pay particular attention to coordination of work at all tie in areas.
 - c. Coordinate with Window Work Contractor to create temporary entrances and loading areas as shown on the Phasing Plan.
- 3. Demolition:
 - a. Removal of masonry walls, doors, and interior partitions as required for new work. General work contractor is responsible for shoring, demolition and protection of areas associated with new work.
 - b. Removal of finishes noted on plans including but not limited to flooring, and misc. items. Review patch to match conditions at tie-ins and phase meetings.
 - c. Removal and disposal of miscellaneous equipment if impacting work to be demolished. Coordinate shutdown of water and / or electric with trades associated with the area of demolition. See demolition plans for additional demolition notes.
 - d. All cutting and patching necessary for work of this contract, including layout, sleeves, coring, debris removal, sawcuts of existing slabs, providing lintels, drywall work, plaster work, grouting, painting, ceiling replacement, etc.
- 4. Temporary Facilities
 - a. Provide temporary access and continuous exits in and out of all construction areas. Provide self-closing lockable closures at temporary access and loading points.
 - b. Provide dust protection.
 - c. Provide continuous exits for occupied areas of the building.
 - d. Provide Project Identification Sign
 - e. Provide protection at exterior wall and interior spaces when performing tie in work for new addition and any type of window wall replacements.
 - f. Provide all isolation barriers, temporary partitions, egress doors, and temporary egress parameters as shown. Restore all areas to original condition upon completion.
 - g. Provide and maintain insulated, weather-proof temporary closure panels at addition tie-in.
 - h. Provide approved fire extinguishers as per OSHA standards.
 - i. Provide Temporary Facilities indicated as Work of this Contract in Division 1 Section 01 50 00, "Temporary Facilities and Controls"
 - j. Provide and furnish Construction Manager's Field Office as per Section 01 5213, within TEN (10) days of the notice to proceed/contract award. Maintain as per Section 01 5213
- 5. New Construction:
 - a. Provide services of a licensed surveyor for building layout, elevation and as-built foundation location.
 - b. Work separation line between building and site is defined at 5' outside the building perimeter wall. The General Work Contractor #1, is responsible for all excavation, backfill, compaction and sub-base within the building addition footprint and to the line of separation. The General Work Contractor (Contract #1) is responsible for sub-base to the 5' line of separation. The Site Work Contractor (Contract #2) shall be responsible for all exterior concrete work.
 - c. Earthwork: All site earthwork, excavation, bedding, backfill, subbase, and base material, including dewatering as required for the installation of work of this

contract. Dewatering shall remain in place until directed to be removed by the Construction Manager. Include all helical pile as shown.

d. **STRUCTURE EXCAVATION AND BACKFILL:**

1) General: Excavations shall be in compliance with current OSHA regulations. Structure Excavation shall be made to the elevations, slopes and limits shown on the plans. Bottom of excavations shall be level and in firm, solid material; where soft or otherwise unsuitable material is encountered, such material shall be removed and replaced with properly compacted earth material, stone or flowable fill, as directed by the ARCHITECT / ARCHITECT AND CONSTRUCTION MANAGER. Topsoil and other excavated material suitable for fill or backfill shall be stockpiled on the site for future use. Excess material and unsuitable material shall be properly disposed of. Excavated areas shall be kept free of water during construction. Where necessary, excavations shall be protected by shoring, sheeting, cofferdams or other suitable methods. Wherever excavation for a foundation extends below the water table or where specifically indicated on the plans, a 12-inch layer (unless otherwise noted) of crushed stone or gravel shall be spread and compacted in the excavation bottom prior to placing the foundation. Crushed stone or gravel shall conform to ASTM C33, Size 57. A non-woven filter fabric, Mirafi 140N or equivalent shall be placed beneath the stone layer. An adequate dewatering system shall be provided at all structure excavations and elsewhere as directed by the ARCHITECT AND CONSTRUCTION MANAGER. The system shall be capable of removing any water that accumulates in the excavation and maintaining the excavation in a dry condition while construction is in progress. The surface of the ground shall be sloped away from the excavation or piping provided to prevent surface water from entering the excavation. Disposal of water resulting from the dewatering operation shall be done in a manner that does not interfere with normal drainage and does not cause damage to any portion of the work or adjacent property. All drains, culverts, storm sewers and inlets subject to the dewatering operation shall be kept clean and open for normal surface drainage. The dewatering system shall be maintained until backfilling is complete or as otherwise directed by the ARCHITECT AND CONSTRUCTION MANAGER. All damages resulting from the dewatering operation shall be repaired by the CONTRACTOR to the satisfaction of the ARCHITECT AND CONSTRUCTION MANAGER and at no cost to the OWNER.

- e. Provide shoring and bracing and excavation for all work related to new building, and all excavation for other contractors related to new building. Limit of excavation shall be within five (5) feet of building foundation.
- f. All required underpinning related to new building will be by the General Work Contractor (Contract #1).
- g. The General Construction Work Contractor (Contract #1) shall perform all necessary trenching and excavation, backfilling, and compaction and field required concrete for all other primes, within the building.
- h. All concrete foundations, footings, piers, walls, helical pile and interior slabs will be by this contract.
- i. All concrete masonry units, brick, precast-stone and masonry reinforcement will be by this contract, including masonry locker bases.
- j. Install miscellaneous metal fabrications furnished by other contractors but scheduled to be installed under the General Construction Contract as shown and/or specified in the contract documents. Reinforced roof penetrations and shear wall

penetrations are by General Construction Contract. Provide all openings in walls, floors, and roofs for all other Prime Contractors, including lintels, and structural framing. The other Primes are to provide the size and location of the openings prior to the work being built. All lintels and / or framing are to be sized in accordance with the lintel schedules and standard details within the contract documents. Installation is to be performed by a mechanic qualified and experienced with the materials and finishes being altered or installed. Submit to the Architect the name and qualification of the subcontractor performing the installation prior to starting the work.

- k. Provide all steel beams / columns and associated lintels at new openings as shown. Coordinate with mechanical trades.
- l. Provide steel beams and associated beam pockets/plates at corridors to support roof top units. Coordinate with mechanical trades.
- m. Provide access doors that are shown on Architectural drawings.
- n. Provide labor, material and equipment to install all exterior louvers that are furnished by the Mechanical Work Contractor. Install per details on "A" and "M" drawings, seal the perimeter with approved sealant per spec sections under 07 92 00.
- o. Provide repairs to masonry and concrete structures and openings. Patch to match exterior and interior finishes.
- p. Provide self-leveling underlayment where required to allow for acceptable flooring installation. Pay particular attention to abated floor areas and renovation of floors in general classroom areas.
- q. Provide rough and finish carpentry, including concealed blocking, locker bases and locker room benches, and windowsills.
- r. Provide display cases, visual display units, tack boards, whiteboards, tack strips etc.
- s. Provide thermal and moisture protection.
- t. Provide all interior/exterior doors, frames, borrowed lights/interior windows, security windows, and finishing for same. Provide glass and glazing on all doors, frames, borrowed lights, security windows etc. Provide miscellaneous steel required at new openings, coordinate with all prime contracts. Provide all builders hardware. Power for electrified hardware to be provided by the Electrical Contractor.
- u. Provide gypsum wallboard and finishing for same.
- v. Provide finishes including athletic flooring, tile flooring, resilient vinyl tile, carpeting, painting, suspended acoustical ceilings, and ceramic tile. Provide high performance coatings. Provide gymnasium flooring as shown. Contractor shall anticipate that all existing areas to receive new flooring shall require both light grinding and self-leveling underlayment. Provide additional flash-patching where old walls were removed.
- w. Provide all signage, fire-protection specialties, visual display boards, (as indicated).
- x. Provide operable panel partitions. Coordinate with Electrical Contractor.
- y. Provide building paper protection over finished product. Include maintenance of protection and removal of paper.
- z. Provide all roofing work for new additions. Roof blocking and plywood, including:
 - 1) Provide roof penetrations and blocking for mechanical equipment curbs. Roof drains are to be furnished by the Plumbing contractor and installed by the General Construction Contractor. Plumbing contractor to coordinate with General Construction Contractor.
 - 2) For cutting holes through new deck, the following shall apply:

- a) General Construction contractor shall cut and remove material.
 - b) All contractors requiring holes shall provide the necessary layout.
 - c) Temporary and final roofing and weather-tight protection for roof at new additions shall be by the General Construction Contractor.
 - d) See M and P drawings for extent of work.
 - aa. Include (furnish, and install, unless noted otherwise):
 - 1) Provide interior equipment and housekeeping pads.
 - 2) Include in base bid to furnish and install the following access doors beyond those already shown on drawings:
 - a) Four 18" x 18" fire-rated access doors for gypsum wallboard construction.
 - b) Four 18" x 18" fire-rated access doors for masonry construction.
 - c) Four 12" x 12" stainless steel access doors for masonry construction.
 - d) Four 8" x 8" non-rated, primed steel, trimless, access doors for gypsum wallboard construction.
 - 6. Provide multiple shift work as needed to complete work as shown on milestone schedule. Schedule shows a significant amount of work to be performed second shift.
 - 7. Provide for a very thorough cleaning of all building finishes (interior and exterior) immediately before final inspection.
 - a. Maintain areas in a cleaned condition until the Owner occupies the space.
 - b. Personnel: Experienced workman or professional cleaners approved by the Construction Manager.
 - c. Areas where new floor tile is installed are to be finished with three coats of wax.
 - 8. General Requirements, including but not limited to, additional items specifically indicated as the Work of this Contract.
- B. The Work of the General Construction Contract includes but is not limited to the Work that is specified in the Project Manual(s) and as shown on the drawings that form the contract plans. The Contractor is directed to examine all drawings since certain details and/or notes may appear anywhere therein that apply to his/her particular work. This prime contract is defined as, and includes, all Sections in the Divisions indicated by reference, and specific Sections noted:
- 1. Division 0 – Procurement and Contracting Requirement, all Sections.
 - 2. Division 1 – General Requirements, all Sections, including Temporary Facilities indicated.
 - 3. Division 2 – Selective Structure Demolition
 - 4. Division 3 – Concrete, all Sections.
 - 5. Division 4 – Masonry, all Sections.
 - 6. Division 5 – Metals, all Sections.
 - 7. Division 6 – Woods, Plastics and Composites, all Sections.
 - 8. Division 7 – Thermal and Moisture Protection, all Sections except as noted in other Contracts.
 - 9. Division 8 – Openings, all Sections as pertains to the work of this contract
 - 10. Division 9 – Finishes, all Sections.
 - 11. Division 10 – Specialties, all Sections *except for Site Signage and Flagpoles.*
 - 12. Division 11 – Equipment, all Sections
 - 13. Division 12 – Furnishings, all Sections.
 - 14. Division 14 – Conveying Equipment, all Sections
 - 15. Division 31- Earthwork, all sections except as noted in other contracts

1.9 CONTRACT 2 – SITE CONSTRUCTION WORK

- A. The Work of the Site Construction Work Contract includes but is not limited to, the following descriptions:
1. Includes Landscaping, Site Grading, Site Storm, Site Utilities, Site Pavement plus other construction operations traditionally recognized as Site Work Construction. This includes, but is not limited to work shown on the following:
 - a. Drawings:
 - 1) All "L" series Drawings (Civil)
 - 2) All "A" series Drawings (Architectural)
 - 3) All "S" series Drawings (Structural)
 2. Coordination:
 - a. Coordination with the work of all the other contractors.
 3. Demolition:
 - a. Removal of any existing curbing, roadways, bituminous paving, and walks.
 - b. Removal and relocation of trees, shrubs, and ground cover.
 - c. Removal of all underground utilities and/or equipment as shown or described.
 - d. Removal and disposal of fences, railings and other miscellaneous equipment including equipment not shown if impacting work to be demolished.
 - e. Removal of existing 10,00-gallon Fuel Oil tank and site remediation as shown on the drawings.
 - f. CLEARING AND GRUBBING:
 - 1) General: The CONTRACTOR shall consult with the OWNER and ARCHITECT AND CONSTRUCTION MANAGER prior to beginning clearing, and a full understanding is to be reached as to procedure that best meets the contract documents intent. The CONTRACTOR shall then conduct clearing and grubbing operations in strict accordance with these agreements. The CONTRACTOR'S operations shall be conducted with full consideration of all proper and legal rights of the OWNER, adjacent property OWNER'S and the public, and with the least possible amount of inconvenience to them.
 - 2) Construction Site: The work shall consist of clearing and grubbing within the limits of construction sites, road rights-of-way and elsewhere as indicated or necessary to complete the work, except pipelines. All trees, stumps, roots, shrubs and brush shall be removed as required for construction. Stumps and roots shall be grubbed and completely removed. The resulting depressions shall be filled with suitable material placed and compacted. Sound trees and shrubs, which do not interfere with construction, shall remain in place as marked and shall be adequately protected from damage. Cleared and grubbed material, including debris and rubbish, shall be completely disposed of off-site.
 - 3) Structures: Minor structures shall be removed and disposed of as directed by the ARCHITECT AND CONSTRUCTION MANAGER.
 - 4) Burning: Burning of Cleared Material is not allowed within the site limits.
 - g. Sawcut existing pavements and excavate to facilitate new work, patch pavement with asphalt paving.
 4. Temporary Facilities
 - a. Provide dust protection and temporary site fencing as shown on logistics plan. The temporary fencing line will be moved as per the logistics plan. Provide the proper gates as described/shown. Provide temporary signage as per Section 01 5000.

- b. Provide all construction signage as per Section 01 500 00 Temporary Facilities & Controls. Coordinate installation locations with construction manager.
 - c. Provide temporary roads/access and continuous exits in and out of the construction area as shown. Provide work as shown on the phasing and logistics plan. Provide and maintain asphalt binder and temporary striping at parking lots until final paving is completed.
 - d. Provide all necessary erosion / waste-water control measures specific to the site construction process.
 - e. Provide tracking pads and wash out area for construction vehicles onto East Main Street. Washout pits to be located by the Construction Manager.
 - f. Provide snow removal for contractor staging areas.
 - g. Provide temporary flagpole throughout the project. Existing flagpole may be used, coordinate location with construction manager.
 - h. Provide Temporary Facilities indicated as Work of this Contract in Division 1 Section 01500, "Temporary Facilities and Controls"
5. New Construction:
- a. Work separation line between building and site is defined at 5' outside the building perimeter wall. The Site Contractor is responsible for all grade work outside the 5' line of separation **and all final grade work within the line of separation**. The General Work Contractor is responsible for building excavation, backfill and slab sub-base and sub-grade, to the line of separation. The Site Contractor (Contract #2) shall be responsible for the construction of all exterior concrete work. The Site Work Contractor is responsible for all sidewalks, steps, aprons, curbs, pads, and concrete ramps, as shown on the documents. Any exterior doorway not furnished with sidewalks shall be provided with a concrete pad 5'-0" x 5'-0" for a single door and 10'-0" x 5'-0" for a pair of doors, installed by the Site Contractor (Contract #2)
 - b. Provide shoring, bracing, excavation and backfill for all other prime contractors from five (5) feet outside building foundation.
 - c. Earthwork shall consist of all necessary site clearing and grubbing, excavation and backfill to establish new building footprint and associated grade for structures. Provide site grading, grassing and restoration, as well as related work as shown on the plans and as specified herein.
 - 1) GENERAL: All earthwork shall be confined to the construction area as shown on the plans and shall be done in an approved manner with proper equipment. Earthwork shall be suspended during rain and inclement weather, or when unsatisfactory field conditions are encountered, unless otherwise directed by the ARCHITECT AND CONSTRUCTION MANAGER. At all times during construction, the CONTRACTOR shall maintain proper drainage in the construction area and shall take all measures necessary for erosion and sediment control.
 - 2) Existing Utilities: CONTRACTOR shall take every precaution to protect existing utility services from damage during construction operations. If damage occurs, the OWNER of the utility shall be notified immediately, and repairs shall be made promptly at the CONTRACTOR'S expense. All repair work shall be satisfactory to the ARCHITECT AND CONSTRUCTION MANAGER and the OWNER of the utility. When interruptions of existing utilities occur, temporary service shall be provided as approved by the ARCHITECT AND CONSTRUCTION MANAGER and OWNER of the utility.
 - d. SITE GRADING:

- 1) Site grading shall conform to the lines and grades indicated by the finish contours on the plans. Where topsoil, pavement, aggregate surfacing, and other items are shown, rough grade shall be finished to such depth below finish grade as necessary to accommodate these items. All areas where structures are to be built on fill shall be stripped to such depth as necessary to remove turf, roots, organic matter and other objectionable materials. Excavation: Excavation shall be made to the exact elevations, slopes, and limits shown on the plans.
- 2) Fill: Fill shall not contain organic material, debris, or rock larger than 6 inches in any dimension. Where fill is to be placed all existing vegetation, roots and other organic matter down to 12 inches below grade shall be stripped and disposed of as directed. Fill shall be placed in successive layers of not more than 8 inches loose thickness. Each layer shall be spread evenly and compacted as specified below before the next layer is placed. Rock shall not be incorporated in fill sections supporting pavement or structures. Rock shall be evenly distributed. Rock larger than 4 inches in any dimension will not be allowed in the top 12 inches of fills or slopes. Voids between rock materials shall be well filled with suitable fill material, and all rock shall be covered with at least 6 inches of fill material. Where natural slopes exceed 3:1, horizontal benches shall be cut to receive fill material. Slopes of less than 3:1 and other areas shall be scarified prior to placing fill. Borrow material, as required, shall be obtained from the work site or other acceptable source, at the CONTRACTOR'S expense.
- 3) Compaction: Unless otherwise noted, each layer of fill and backfill and the top 12 inches of existing sub grade material in cuts shall be compacted by approved equipment as specified below. The degree of compaction and the density shall be determined by the Standard Proctor test (ASTM D698) or by the Modified Proctor test (ASTM D1557, Method A). Material too dry for proper compaction shall be moistened by suitable watering devices, turned and harrowed to distribute moisture, and then properly compacted. When material is too wet for proper compaction, operations shall stop until such material has sufficiently dried. All compaction tests, including additional tests required due to failure of materials and work to conform to the specified requirements, shall be done at the CONTRACTOR'S expense. Compaction tests shall be conducted by an independent testing agency as provided by the district. The CONTRACTOR shall be responsible for correcting all deficiencies in the work at his expense. Compaction testing shall continue until test results are satisfactory to the ARCHITECT AND CONSTRUCTION MANAGER. Tests shall be made in randomly selected locations as follows:
 - a) Material Frequency
 - b) Fill and backfill 1 per layer (lift) per 1000 sq. ft.
 - c) Sub grade (cuts) 1 per layer (lift) per 2500 sq. ft.
 - d) Road Crossings 1 per layer
- 4) Dressing Off: All cuts, fills and slopes shall be neatly dressed off to the required grade or subgrade, as indicated on the plans.
- 5) Cleanup: Cleanup of the site shall be made upon completion of grading work or any major part thereof. Unless otherwise noted, excess or surplus material shall be wasted and dressed off on the site, or adjacent thereto, to the ARCHITECT AND CONSTRUCTION MANAGER'S satisfaction. Excess or surplus material wasted in off-site spoil areas shall be spread and leveled as directed.

- 6) Topsoil Placement: Topsoil shall consist of a natural friable loam, occurring usually in a surface layer 6 to 18 inches thick, and free of roots, grass, weeds, stone and other foreign matter. Topsoil may be obtained from the graded area, if available, and stockpiled for future use. Otherwise, the CONTRACTOR shall provide topsoil from other sources at his own expense. All topsoil shall be acceptable to the ARCHITECT AND CONSTRUCTION MANAGER. Topsoil shall be placed on the entire graded area as shown on the plans, or as directed by the ARCHITECT AND CONSTRUCTION MANAGER. Topsoil shall be distributed to a depth of 4 inches, measured loose, and dressed off neatly to finish grade, with all debris removed.
- e. Provide underground utilities. This includes new water lines, storm systems, and sewer lines. Provide excavation, backfill, compaction, and concrete for underground electrical and gas services.
 - f. Provide sand filters and underground pipe detention systems.
 - g. Provide concrete paving, landscaping, site appurtenances and curbing. Provide all concrete and masonry associated to site work. Provide site segmented retaining walls and industrial fencing.
 - h. Provide driveway, parking lot paving and drainage.
 - i. Provide concrete light pole bases for Electrical contractor. Provide excavation, backfill, and compaction for all site lighting/cameras. Coordinate installation with Electrical Contractor.
 - j. Provide all site signage "except" for the exterior building sign, this will be provided by the General Work Contractor.
 - k. Provide flagpole.
 - l. Contractor shall obtain and pay for any permits, inspections, or certifications from governing authorities having jurisdiction over the work to be performed, or over the finished product to be installed by this Contractor. Project Building Permit is by others.
- B. NYSDOT Highway Work Permit(s):
1. Site Construction Contractor responsible for:
 - a. Completion of all required applications,
 - b. Make application for the required NYSDOT Permits,
 - c. Payment of all application fees and other associated costs,
 - d. Provide all insurance associated with the NYSDOT Permit Requirements
 - e. All relevant work within the NYSDOT Right-of-Ways associated with the proposed improvements.
 2. Insurance Forms Required for NYSDOT Highway Work Permits or as required:
 - a. Accord 25 – CGL – Min \$1,000,000 per claim / occurrence
 - b. Accord 855
 - c. Workers Comp – C105.2, U-26.3, SI-12 or CE-200 exempt
 - d. Disability – DB120.1, DB-155 or CE-200 exempt
 3. Form PERM 33 – Highway Work Permit Application for Non-Utility Work.
 4. Form PERM 44 – Surety Bond (Performance) For the benefit of The New York State Department of Transportation.
 5. Technical Plan approval.
- C. The Work of the Site Construction Contract includes but is not limited to the Work that is specified in the Project Manual(s) and as shown on the drawings that form the contract plans. The Contractor is directed to examine all drawings since certain details and/or notes may appear anywhere therein that apply to his/her particular work. This prime contract is defined as, and includes, all Sections in the Divisions indicated by reference, and specific Sections noted:
1. Division 1 –General Requirements, all Sections, including Temporary Facilities indicated.

2. Division 3 Section 03 30 00" Cast-in Place Concrete" *as applicable to work of this contract*
3. Division 10 – Specialties – Section 10 14 53 Site Signage and Section 10 75 00 Flagpoles.
4. Division 31 – Earth Work - all Sections.
5. Division 32 – Exterior Improvements - all Sections
6. Division 33 – Utilities - all Sections
7. The Site Work Contract #2 is responsible for installation of and maintenance of all Temporary Erosion and Sediment Control measure for the duration of the project as specified in, "Erosion and Sediment Control". ***Milestone schedule is to be reviewed as there will be the need for the Site Contractor to provide multiple phased visits for work as needed to complete work according to the milestone schedule.***

1.10 CONTRACT 3 - HEATING, VENTILATING, & AIR CONDITIONING WORK CONTRACT

- A. Work of this Contract includes, but is not limited to, the following descriptions:
1. Includes HVAC Equipment, Piping, ductwork, control systems, plus other construction operations traditionally recognized as heating, ventilating and cooling work. This includes, but is not limited to, all work shown on the "M & MD" drawings, and applicable information shown on the A & S drawings, unless noted otherwise. It also includes Administrative and coordination responsibilities.
 2. Coordination:
 - a. Coordination with the work of all the other contractors.
 3. Demolition
 - a. Provide phased demolition of all HVAC equipment and piping as shown and as required at the existing building. Remove items to the point of attachment to the plaster
 - b. Provide demolition of all unit ventilators, provide temporary protection for openings.
 - c. Removal of items as shown and/or required. Remove items to the point of attachment to the plaster walls, cut straps or other carriers and remove items, leave attachment in place.
 - d. Remove and properly dispose of control valves and valve actuators shown to be removed.
 - e. Remove and properly dispose of air dampers and actuators shown to be removed.
 - f. All cutting and patching necessary for work of this contract, including layout, sleeves, coring, debris removal, sawcuts, lintels (furnish and install), drywall work, plaster work, grouting, painting, ceiling removal and replacement, etc.
 4. Temporary Facilities
 - a. Provide Temporary Facilities indicated as Work of this Contract in Division 1 Section 01 50 00, "Temporary Facilities and Controls"
 5. Construction:
 - a. **In existing construction**, each Prime Contractor is to provide their own rough opening in walls, and floors including lintels and any required structural framing for penetrations as part of their own Prime Contract. All lintels and / or framing are to be sized in accordance with the lintel schedules and standard details within the contract documents unless specifically shown to be under the General Construction Contract. Installation is to be performed by a mechanic qualified and experienced with the materials and finishes being altered or installed. Submit to the Construction Manager the name and qualification of the subcontractor performing the installation prior to starting the work.

- b. Install all controls components into air and hydronic systems as required maintaining the integrity of the system:
 - 1) Install motor actuated dampers.
 - 2) Install airflow measuring stations.
 - 3) Install airside temperature and pressure sensors.
 - 4) Install hydronic control valves.
 - 5) Install hydronic temperature and pressure sensor wells
 - 6) Provide TAB and participate in commissioning work of the EMCS as required for controls of the work of this contract.
- c. Provide new Boilers and Condensing Units.
- d. Provide Hydronic and refrigerant piping and pumps
- e. Provide and install new exhaust fans and ductwork as shown.
- f. Provide unit heaters and humidifiers
- g. Provide Air Handling Units and Roof top units
- h. Provide split system air conditioning unit
- i. Provide water source Heat Pumps and / or VAV's
- j. Provide Fan Coil Units
- k. Supply exterior louvers for installation by the General Construction Work Contractor, including louvers for the existing building.
- l. Provide and install new unit heaters, piping controls.
- m. Provide and install ducting for other Contractor provided hoods.
- n. Provide contractor filters, final replacement filters and final duct cleaning.
- o. Provide and install all insulation, painting and labeling of new and modified piping, ductwork, and equipment.
- p. Provide all testing, adjusting, and balancing of all new and existing modified HVAC systems.
- q. All fees required for inspections and permits.
- r. Provide support framing for HVAC equipment, ie mechanical equipment curbs.
- s. Furnish access doors for HVAC access (to be installed by GC)
- t. Provide firestopping and sealing at all HVAC penetrations
- u. Furnish motor controllers/disconnects to Electrical Contract for installation and wiring.
- v. Provide the necessary layout for all roofing penetrations to the General Work Contractor and Roofing Renovation Contractor. Provide curbs for mechanical equipment.
- w. Venting and roof mounted exhaust fans for fume hoods by Mechanical Contractor
- x. Provide owner training / commissioning of equipment.
- 6. General Requirements, including but not limited to, additional items specifically indicated as the Work of this Contract.
- 7. Provide multiple work shifts as needed to complete work as shown on milestone schedule. Schedule shows a significant amount of work to be performed second shift.
"Two Work Shifts" will be required to perform the scheduled work.

- B. The Work of the HVAC Work Contract includes but is not limited to the Work that is specified in the Project Manual(s) and as shown on the drawings that form the contract plans. The Contractor is directed to examine all drawings since certain details and/or notes may appear anywhere therein that apply to his/her particular work. This prime contract is defined as, and includes, all Sections in the Divisions indicated by reference, and specific Sections noted:
- 1. Division 0 –Procurement and Contracting Requirement, all Sections.
 - 2. Division 1 –General Requirements all Sections, including Temporary Facilities indicated
 - 3. Section 07 84 00, Firestopping Systems, as required for the Work of this Contract
 - 4. Section 07 90 05, Joint Sealers, as required for the Work of this Contract

5. Division 23 – HVAC, all Sections.
 - a. *Section 23 09 23 – Direct Digital Control System for HVAC, is included in the HVAC Contract but for coordination and ancillary work purposes only. Coordinate with the Controls Contractor during all demolition and new work. Provide ancillary controls work as stated. Refer to Paragraph 1.7, G also.*

1.11 4 - ELECTRICAL WORK CONTRACT

- A. Work of this Contract includes, but is not limited to, the following descriptions:
 1. Includes Electrical Distribution Service, Lighting, CATV systems, Communications, Fire Alarm, Intercom Systems, Security Systems, Emergency Lighting, and other systems traditionally recognized as Electrical work. This includes but is not limited to, all work shown on the “E & ED” Drawings, and applicable information shown on the “A” and “S” Drawings, unless noted otherwise. It also includes administrative and coordination responsibilities.
 2. Coordination:
 - a. Coordination with the work of all the other contractors.
 - b. Coordination with the work of all outside vendors.
 - c. Coordinate with HazMat Contractor to hook-up and remove temporary panels.
 3. Demolition:
 - a. Removal of items as shown and/or required. Remove items to the point of attachment to the plaster walls, cut straps or other carriers and remove items, leave attachment in place. Coordinate shutoffs with General Contractor during demolition.
 - b.
 - c. Removal and disconnections of electrical devices in walls, ceilings and floors scheduled to be removed in the portion of the building to remain.
 - d. Removal of lighting fixtures not removed as ACM.
 - e. Coordinate with all Contractors for necessary shutdowns, provide temporary power as required.
 - f. Removal of exterior lighting fixtures and wiring.
 - g. Removal of existing unit ventilators power back to panel.
 - h. All cutting and patching necessary for work of this contract, including layout, sleeves, coring, debris removal, sawcuts, lintels (furnish and install), drywall work, plaster work, grouting, painting, ceiling removal and replacement, etc.
 4. Temporary Facilities
 - a. Provide Temporary Facilities indicated as Work of this Contract in Division 1 Section 01 50 00, “Temporary Facilities and Controls”
 - b. Provide temporary power and lights as per the Project Manual
 - c. Provide power for the Hazardous Materials Contractors sub-panels, connection & disconnection. Coordinate with HazMat Contractor.
 5. Construction:
 - a. **In existing construction**, each Prime Contractor is to provide their own rough opening in walls, and floors including lintels and any required structural framing for penetrations as part of their own Prime Contract. All lintels and / or framing are to be sized in accordance with the lintel schedules and standard details within the contract documents unless specifically shown to be under the General Construction Contract. Installation is to be performed by a mechanic qualified and experienced with the materials and finishes being altered or installed. Submit to the Construction Manager the name and qualification of the subcontractor performing the installation prior to starting the work.

- b. The General Construction Work Contract shall perform all necessary trenching and excavation, backfilling, and compaction and field required concrete for all other primes.
 - c. Provide ALL wiring to ALL HVAC equipment. (Install motor controllers/disconnects supplied by HVAC Contract)
 - d. Provide power to all ADA hardware and electric hardware shown in door hardware schedule. Provide control wiring and connection for electrified door hardware
 - e. Provide all interior and exterior lighting including lighting control.
 - f. Provide all fire alarms, CATV, and networking systems.
 - g. Provide public address systems, including full installation and training.
 - h. Provide all cutting and patching required installing all electrical fixtures, devices, wire and conduit.
 - i. Provide all fees required for inspections and permits.
 - j. Provide support framing for Electrical equipment and conduits.
 - k. Furnish access doors for electrical access (to be installed by GC)
 - l. Provide firestopping and sealing of all electrical penetrations
 - m. Provide owner training
 - n. Provide telecommunications
 - o. Provide and maintain a temporary electric service, including lighting and power, for the site office trailers off the temporary service being provided above. Maximum of 1 trailer per Prime Contractor. Each trailer to have a 100 amp, 240 Volt single-phase connections. Assume a diversified peak connected load factor of 12KW per trailer. For the Construction Manager's Office Trailer see Section 01 5213.
- 6. General Requirements, including but not limited to, additional items specifically indicated as the Work of this Contract.
 - 7. Provide multiple shift work as needed to complete work as shown on milestone schedule. Schedule shows a significant amount of work to be performed second shift. ***"Two Work Shifts" will be required to perform the scheduled work.***

B. The Work of the Electrical Work Contract includes but is not limited to the Work that is specified in the Project Manual(s) and as shown on the drawings that form the contract plans. The Contractor is directed to examine all drawings since certain details and/or notes may appear anywhere therein that apply to his/her particular work. This prime contract is defined as, and includes, all Sections in the Divisions indicated by reference, and specific Sections noted:

- 1. Division 0 –Procurement and Contracting Requirement, all Sections.
- 2. Division 1 –General Requirements all Sections, including Temporary Facilities indicated
- 3. Division 7- Thermal and Moisture Protection, Section 07 84 00, Firestopping Systems, and Section 07 90 05, Joint Sealers, as required for the Work of this Contract
- 4. Division 11 - All sections as relates to this contract for power connections to equipment.
- 5. Division 12 – All sections as relates to this contract for power connections to equipment.
- 6. Division 14- All sections as relates to this contract for power connections to equipment.
- 7. Division 21 - All sections as relates to this contract for power connections to equipment.
- 8. Division 22 - All sections as relates to this contract for power connections to equipment.
- 9. Division 23 - All sections as relates to this contract for power connections to equipment.
- 10. Division 26 - Electrical - All Sections.
- 11. Division 27 - Communications - All Sections.
- 12. Division 28 – Electronic Safety and Security - All Sections.

1.12 CONTRACT 5 - PLUMBING WORK CONTRACT

- A. The Work of the Plumbing Work Contract includes but is not limited to, the following descriptions:
1. Drawings:
 - a. All "P & PD" series Drawings (General)
 - b. All "L" series Drawings (as it relates to plumbing work)
 - c. All "AS, AR, AD, A, " series Drawings (as it relates to plumbing work)
 - d. All "FSE" series Drawings (as it relates to plumbing work)
 2. Coordination:
 - a. Coordination with the work of all the other contractors.
 3. Demolition:
 - a. Removal of items as shown and/or required. Remove items to the point of attachment to the plaster walls, cut straps or other carriers and remove items, leave attachment in place. Coordinate shutoffs with General Contractor during demolition.
 - b. All cutting and patching necessary for work of this contract, including layout, sleeves, coring, debris removal, sawcuts, lintels (furnish and install), drywall work, plaster work, grouting, painting, ceiling removal and replacement, etc. All excavation work required for this contract is by this contract, except in the new addition footprint.
 4. Temporary Facilities
 - a. Provide Temporary Facilities indicated as Work of this Contract in Division 1 Section 01 50 00, "Temporary Facilities and Controls" including temporary toilet facilities.
 - b. Provide temporary portable chemical toilets for all construction personnel, as per OSHA standards. Provide toilet facilities at the construction manager's office as per Section 01 5213 Field Offices.
 5. Construction:
 - a. **In existing construction**, each Prime Contractor is to provide their own rough opening in walls, and floors, including lintels and any required structural framing for penetrations as part of their own Prime Contract. All lintels and / or framing are to be sized in accordance with the lintel schedules and standard details within the contract documents unless specifically shown to be under the General Construction Contract. Installation is to be performed by a mechanic qualified and experienced with the materials and finishes being altered or installed. Submit to the Construction Manager the name and qualification of the subcontractor performing the installation prior to starting the work.
 - b. The General Construction Work Contract shall perform all necessary trenching and excavation, backfilling, and compaction and field required concrete for all other primes.
 - c. Provide water, gas, vacuum, and acid waste lines and connect to all fixtures provided under the Casework and Lab Equipment contract at the science classrooms.
 - d. Provide water distribution pumps, meters and gauges as needed.
 - e. Provide all insulation, painting and labeling of new plumbing piping.
 - f. Provide all hot and cold-water piping to other Contractor provided sinks, faucets and appliances. Make all final connections.
 - g. Provide all testing, balancing and disinfection of all new and modified plumbing systems.
 - h. All fees required for inspections and permits.
 - i. Provide support framing for plumbing equipment.
 - j. Furnish access doors for plumbing access (to be installed by GC)
 - k. Provide firestopping and sealing at all plumbing penetrations.

6. General Requirements, including but not limited to, additional items specifically indicated as the Work of this Contract.
 7. Provide multiple shift work as needed to complete work as shown on milestone schedule. Schedule shows a significant amount of work to be performed second shift. ***“Two Work Shifts” will be required to perform the scheduled work.***
- B. The Work of the Plumbing Work Contract includes but is not limited to the Work that is specified in the Project Manual(s) and as shown on the drawings that form the contract plans. The Contractor is directed to examine all drawings since certain details and/or notes may appear anywhere therein that apply to his/her particular work. This prime contract is defined as, and includes, all Sections in the Divisions indicated by reference, and specific Sections noted:
1. Division 0 – Procurement and Contracting Requirement, all Sections.
 2. Division 1 –General Requirements all Sections, including Temporary Facilities indicated
 3. Division 7- Thermal and Moisture Protection, Section 07 84 00, Firestopping Systems, Section 07 90 05, Joint Sealers, as required for the Work of this Contract
 4. Division 22 -All sections

1.13 CONTRACT 6 - HAZARDOUS MATERIAL ABATEMENT CONTRACT

- A. Work of this Contract includes, but is not limited to, the following descriptions:
1. Includes Hazardous Materials abatement/removal plus other construction operations traditionally recognized as Hazardous Materials Construction. This includes, but is not limited to, *all work shown* on the “AA” Drawings, and any applicable information shown on all other drawings. It also includes administrative and coordination responsibilities.
 2. Drawings:
 - a. All “AA” series Drawings (Hazardous Materials)
 3. Coordination:
 - a. Coordination with the work of all the other contractors.
 - b. Coordinate with Electrical Contractor to hook-up and remove temporary panels.
 4. Demolition:
 - a. Asbestos containing material removal as shown in the contract documents and disposal per Code Rule 56.
 - b. Remove windows indicated on the drawings as asbestos abatement.
 - c. Remove all plaster, adhesive, caulk, VAT, TSI, blackboards, mirrors, gaskets and membranes as shown in the documents. Remove interior wythe of brick and mastic at all new exterior wall openings.
 - d. Remove interior wythe of brick at new openings, as asbestos containing material.
 - e. Provide abatement of all identified Lead Based Paint as shown in the contract documents.
 5. Temporary Facilities
 - a. Provide Temporary Facilities indicated as Work of this Contract in Division 1 Section 01 50 00, “Temporary Facilities and Controls”
 - b. Provide temporary shoring at new openings.
 - c. Construction of all hard barriers separating abatement area from other areas.
 6. Construction:
 - a. Provide temporary weather tight and secure closure panels at building openings.
 7. General Requirements, including but not limited to, additional items specifically indicated as the Work of this Contract.
 8. Provide multiple shift work to complete work as shown on milestone schedule. Schedule shows a significant amount of work to be performed second shift. No Hazardous Materials Work will be performed during the school year. ***“Two Work Shifts” are required to perform the scheduled work.***

- B. The Work of the Hazardous Material Abatement Work Contract includes, but is not limited to, the Work that is specified in the Project Manual(s) and as shown on the drawings that form the contract plans. The Contractor is directed to examine all drawings since certain details and/or notes may appear anywhere therein that apply to his/her particular work. This prime contract is defined as, and includes the following listed sections:
1. Division 0 –Procurement and Contracting Requirement, all Sections.
 2. Division 1 –General Requirements all Sections, including Temporary Facilities indicated
 3. Division 2- Existing Conditions, as relates to this contract for the removal of hazardous materials)
 4. Division 7- Thermal and Moisture Protection as required for the Work of this Contract. Particularly 07 84 00Firestopping and 07 90 05 Joint Sealers

1.14 CONTRACT 7- FOOD SERVICES EQUIPMENT

- A. The Work of the Food Services Equipment Contract includes, but is not limited to the following descriptions:
1. Includes all Food Service Storage, Preparing, Cooking, and Serving equipment indicated plus connection to utilities. This includes, but is not limited to all work shown on the FSE drawings, and any applicable information shown on the “A, P, E, M & FSE” drawings. It also includes Administrative and coordination responsibilities.
 2. Coordination:
 - a. Coordination with the work of all the other contractors.
 3. Demolition:
 - a. All cutting and patching necessary for work of this contract, including layout, sleeves, coring, debris removal, sawcuts, lintels (furnish & install), drywall work, plaster work, tile work, grouting, painting, ceiling removal and replacement, etc.
 - b. Removal of all existing food service equipment as indicated on the drawings.
 4. Temporary Facilities:
 - a. Provide Temporary Facilities indicated as Work of this Contract in Division 1 Section 01 50 00 “Temporary Facilities and Controls”.
 5. Construction:
 - a. Provide all new Food Service Equipment as mentioned in the specifications and/or shown in the drawings. Coordinate with other prime contracts for locations, requirements, and connections.
 - b. Furnish and install all coolers, refrigerators, freezers, mixers, stoves, ovens, steamers, kettles, dishwashers, warming units, as specified on the design documents. Include all electrical service fittings, water, and gas attachment hardware. Coordinate with Mechanical Plumbing and Electrical Contractors as required.
 - c. Furnish and install all tables, islands, storage equipment, carts, shelving units, solid top units and worktables as shown in the documents.
 - d. Provide and install new fire suppression system, as per the documents
 - e. Provide and install new remote evaporator coils and refrigerant piping between coils and Cooler/Freezers and required Cat 6 cabling from condensing units to supplied switch.
- B. The Work of the Food Service Equipment Contract includes, but is not limited to, the Work that is specified in the Project Manual(s) and as shown on the drawings that form the contract plans. The Contractor is directed to examine all drawings since certain details and/or notes may appear anywhere therein that apply to his/her particular work. This prime contract is defined as, and includes the following listed sections:

1. Division 0 –Procurement and Contracting Requirement, all Sections.
2. Division 1 –General Requirements all Sections
3. Division 2- Existing Conditions, as relates to this contract for the removal of existing kitchen equipment.
4. Division 11- Specialties as relates to the work of this contract

1.15 CONTRACT 8- FIRE SUPPRESSION

- A. The work of this contract includes but is not limited to the following descriptions;
1. All equipment, piping, valves, meters, pumps, and alarms traditionally recognized as Fire Suppression work. This includes, but is not limited to the work shown on the FSE drawings
 2. Coordination:
 - a. Coordinate with the work of all other contractors.
 - b. Coordinate shut offs with the General Construction contractor prior to demolition.
 3. Demolition:
 - a. Remove all existing sprinkler heads, piping and appurtenances as per the Phasing Plan.
 - b. Removal and disposal of miscellaneous equipment, including equipment not shown, if impacting work to be demolished.
 4. Temporary Facilities
 - a. Provide continuous fire suppression using the existing system.
 - b. Provide "Fire Watch" when existing system is offline. Provide temporary fire protection throughout the project.
 - c. Provide Temporary Facilities indicated as Work of this contract in Division 1 Section 01 50 00 "Temporary Facilities and Controls"
 5. Construction
 - a. **In existing construction**, each Prime contractor is to provide their own rough openings in walls and floors, including lintels and any structural framing for penetrations as part of their own Prime Contract. All lintels and/or framing are to be sized in accordance with the lintel schedules and standard details within the contract documents unless specifically shown to be under the the General Construction Contract. Installation is to be performed by a mechanic qualified and experienced with the materials and finishes being altered or installed. Submit to the Construction Manager the name and qualification of the subcontractor performing the installation prior to starting the work.
 - b. Provide all sprinkler heads, trims, piping, valves, alarms, meters, backflow preventers, pumps and other system parts as needed
 - c. Provide all labeling, signs and identification tags
 - d. Provide all flushing and system testing as required
 - e. Include any fees required for inspections and permits.
 - f. Provide firestopping and sealing at all sprinkler system penetrations.
 6. General Requirements, including but not limited to, additional items specifically indicated as the Work of this Contract

7. Provide multiple shift work as needed to complete work as shown on milestone schedule. Schedule shows a significant amount of work to be performed second shift. ***“Two work Shifts” will be required to perform the scheduled work.***
- B. The Work of the Fire Suppression Work Contract includes but is not limited to the Work that is specified in the Project Manual(s) and as shown on the drawings that form the contract plans. The Contractor is directed to examine all drawings since certain details and/or notes may appear anywhere therein that apply to his/her particular work. This prime contract is defined as, and includes all Sections in the Divisions indicated by reference, and specific Sections noted:
 1. Division 0- Procurement and Contracting Requirements, all section
 2. Division 1- General Requirements, all sections, including Temporary Facilities indicated.
 3. Division 7- Joint Sealants, Section 07 84 00, Firestopping Systems as required for the work of this contract
 4. Division 21- Fire Suppression, all sections
 5. Division 22- Plumbing as required for the work of this contract.

1.16 CONTRACT 9 – WINDOW CONSTRUCTIONWORK:

- A. The Work of the Window Contract includes but is not limited to, the following descriptions:
 1. Includes Architectural, Structural, Masonry, plus other construction operations traditionally recognized as Window Construction Work. This includes, but is not limited to, ***new and existing window replacement, new translucent panels, and all hazardous material abatement work shown relative to this work*** on the following:
 - a. Drawings:
 - 1) All “A500” series Drawings that pertain to the work of this contract.
 - 2) All A800 series Drawings that pertain to the work of this contract.
 - 3) “AA” series Drawings that pertain to the work of this contract.
 2. Coordination:
 - a. Coordination with the work of all the other contractors.
 - b. Coordinate with GC Contract 1, to provide window openings for personnel entry and loading building materials.
 3. Demolition:
 - a. Remove all existing aluminum windows including all associated abatement of ACM panels. Remove all existing steel windows as ACM due to the plaster returns. Asbestos containing material removal and disposal will be per Code Rule 56.
 - b. Provide openings for new windows as per the drawings and contract documents.
 - c. Removal and disposal of miscellaneous equipment including equipment not shown if impacting work to be demolished.
 - d. All cutting and patching necessary for work of this contract, including layout, sleeves, coring, debris removal, sawcuts, and providing lintels.
 4. Temporary Facilities
 - a. Provide critical barriers at all window removals.
 - b. Provide continuous exits.
 - c. Provide temporary shoring as required at new openings.
 - d. Provide insulated weather-tight temporary protection at all openings not receiving new units.

- e. Provide Temporary Facilities indicated as Work of this Contract in Division 1 Section 01500, "Temporary Facilities and Controls"
- 5. New Construction:
 - a. Provide new windows, screens, trims, operators, hardware and glazing as shown.
 - b. Provide new lintels as per the drawings and contract documents.
 - c. Provide new Fiberglass sandwich panels and their frames (Kalwall)
 - d. Flashing and counter flashing for all penetrations.
 - e. Provide all blocking and fascia work as shown.
 - f. Provide rough and finish carpentry.
 - g. Provide thermal and moisture protection.
 - h. All caulking and sealants within or interfacing with the work of this contract.
- 6. General Requirements, including but not limited to, additional items specifically indicated as the Work of this Contract.
- 7. *Milestone schedule is to be reviewed as there will be the need for the Window Contractor to provide multiple phased visits for work as needed to complete work according to the milestone schedule.*

B. The Work of the Window Contract includes but is not limited to the Work that is specified in the Project Manual(s) and as shown on the drawings that form the contract plans. The Contractor is directed to examine all drawings since certain details and/or notes may appear anywhere therein that apply to his/her particular work. This prime contract is defined as, and includes, all Sections in the Divisions indicated by reference, and specific Sections noted:

- 1. Division 1 –General Requirements, all Sections, including Temporary Facilities indicated.
- 2. Division 2 – Existing Conditions, All Sections
- 3. Division 6 – Woods, Plastics, and Composites, all Sections as they pertain to the scope of this work.
- 4. Division 7 –Thermal and Moisture Protection, all Sections as they pertain to this scope of work
- 5. Division 8- Openings, all sections as they pertain to the scope of this work

1.17 ADDITIONAL SCOPING

- A. Definition of Extent of Prime Contract Work; Additional Prime Contract Work not previously described
 - 1. All Prime Contractors are responsible for reviewing plans and specs as it pertains to their scope of work mentioned in the contract documents. Scopes of work referenced may be found in multiple locations throughout the plans and specifications.
 - 2. Local custom and trade union jurisdictional settlements do not control the scope of work included in each prime contract. When a potential jurisdictional dispute or similar interruption of work is first identified or threatened, the affected prime contracts shall promptly negotiate a reasonable settlement to avoid or minimize the pending interruption and delays.
 - 3. All OSHA safety and hazardous materials regulations will be enforced on this project. All Contractors must submit a safety program, a hazardous materials program, (all required data must be maintained at the job site) and attend safety meetings. Toolbox talks will be required from each prime contractor, with a copy of, given to the Construction Manager.

4. All Contractors are responsible for any debris caused by their work. A daily clean-up and disposal is required by each Contractor for the periods which that Contractor is performing work on site, on a day selected by the Construction Manager. Each trade will assign at least one person to the weekly clean-up; the name of this person is to be submitted to the Construction Manager. Any Contractor not providing personnel will be "back-charged" for labor provided by the Construction Manager.
5. All Contractors are responsible for cutting/patching required to complete their work. All exposed finishes must be ready to receive paint, etc.; all concealed openings (piping, ductwork, conduit, etc.) must be repaired to comply with specified wall or deck conditions.
6. Multiple Crews: To maintain the project schedule, each Prime Contractor is to provide multiple crews. Each crew is to be furnished with its own supervision, cranes, scaffold, and other means necessary to maintain the Project Schedule.
7. Supervision: The proposed project manager and field superintendent for the project is to have at least five years experience in the proposed position. Each successful bidder shall submit resumes to the Construction Manager for the proposed project manager and field superintendent for the project. This information will be reviewed with the Owner, Architect and Construction Manager for approval. Should the Project Manager and/or Superintendent prove unqualified for the position at any point in the project, the Construction Manager shall issue a letter stating that the person is to be removed from involvement in the project. Action by the contractor must be made within seven working days of receipt of such letter.
8. Each prime contractor shall return areas disturbed by their work activities to condition prior to start of work.
9. Each prime contractor shall maintain within its field office a complete and current set of Contract Documents (including any Addenda, Change Orders, and Modifications thereto), approved shop drawings, samples, color schedules and other data pertinent to the Project.
10. Each prime contractor is to survey existing work and submit to the Construction Manager a list of damaged areas (e.g. exterior brickwork) prior to commencing work. Any damaged areas not identified prior to the work shall be the responsibility of the contractor/ Contractors working in that area. Construction Manager will have photos of existing conditions on file for reference.
11. The General Construction Work Contract (GC #1) is required to submit a construction and submittal schedule based on the milestone dates to the Construction Manager for review and comment no later than 2 weeks after a Notice to Proceed for the work is issued. The other Prime Contractors have 5 days to complete their construction and submittal schedules after the Construction Manager distributes the General Construction Contractor's schedule.
12. Unless a specific item or material is noted as to remain the Owner's property or to become the Contractor's property (or similar words), any material having salvage or reuse value shall be inspected by the Owner. If the Owner wishes to retain this material, it shall be turned over to him on the site where directed. If the Owner designates the material as scrap, it shall become the Construction Manager's property and removed from the site. Material having salvage value shall be carefully removed. If the Construction Manager designates the material as scrap, it shall become the contractor's property and removed from the site by the contractor. Material having salvage value shall be carefully removed.
13. When the building is occupied and fire alarm and safety system work is in progress, the Electrical Contractor (Contract #4) shall continuously maintain the existing building's fire alarm and detection system and exit, and emergency lighting system or provisions must be made by the Electrical Contractor to provide equivalent safety. Electrical Contractor must notify the local fire department of any non-operating systems.

14. All personnel required to be on site shall have all required personnel protective equipment on, while on the project site.
15. All personnel on site shall have a photo ID displayed where visible, while on the project site. Those without will be removed from site at once. If the same individual fails to have the ID a second time they will be removed from site and not be allowed back on site.

1.18 TESTING

- A. Required testing and test procedures are indicated under each Division of the Technical Specifications. Other testing shall be performed per generally accepted standards.
- B. The Architect shall reserve the right to require additional information as is deemed necessary to fully evaluate testing results.
- C. The Owner shall employ and pay for an independent testing and inspection agency for testing requirements of their work as assigned by this scope of work. All testing shall be per technical specification requirements. The Prime Contractor requiring testing will notify the Construction Manager forty-eight hours in advance of the required testing to allow for coordination and scheduling. Failure to give sufficient notice will require the prime contractor to pay for alternate testing to satisfy the specification.

1.19 WORK SEQUENCE

- A. The Work will be conducted to provide the least possible interference to the activities of the Owner's personnel.
- B. All contract scopes of work in unoccupied areas of work can be performed weekdays according to milestone schedule. Please see schedule for scheduled second shift work. Work cannot be performed in occupied areas. Work shall be scheduled off-hours, vacations and weekends for occupied areas. A Construction Manager Superintendent must be on site at all times that work is being performed. If a contractor fails to maintain the progress as indicated by the milestone schedule by no other fault but its own and requires overtime to complete the work; the contractor shall make arrangements with the Construction Manager 24 hours in advance and pay for a Construction Manager's superintendent at \$150.00 per hour. In the event that the cause for delay is multi-contract, then the costs shall be distributed evenly among contracts. Advise the Construction Manager 48 hours prior to commencing work inside the building.
- C. Coordination of any utility and/or power interruption must be done with the Construction Manager. Shutdowns must occur during off-hours and on days when the building is not occupied by the owner.
- D. Construction access to the site shall be limited to those designated for contractor's personnel, equipment and deliveries by the Owner. Contractors' staging, parking and storage shall be coordinated by the Construction Manager.
- E. Each Contractor shall inspect the site and review the AHERA report on file for the presence of asbestos. Unless otherwise noted, there will be asbestos containing material in place that will require work to take place in the vicinity of, around and/or next to. Each prime contractor that will be working above ceilings, demolishing, in crawl spaces, boiler rooms and all other areas that may contain asbestos per the AHERA report, shall employ "Allied Trades: certified/licensed tradesman as part of the onsite workforce".

1.20 OCCUPANCY REQUIREMENTS

- A. The General Work Contractor shall provide indoor air quality management, for their contract work area, as specified by the Department of Labor and OSHA for the building, when the building is enclosed, as determined by the Construction Manager.
 - 1. Provide an exhaust air system for the project indoor areas that could produce fumes, VOC's off-gasses, gasses, dusts, mists, or other emissions.
 - 2. Exhaust air system for the project areas that could produce emissions listed in Paragraph 1 shall be utilized.
 - 3. Provide temporary partitions and air seals to prevent the migration of airborne contaminants from unoccupied areas to occupied areas when applicable.
- B. Quality assurance:
 - 1. Maintain a negative pressure between the work area and the space surrounding the work area.
 - 2. Before start of work, submit a design for the exhaust air system. Do not begin work until approval of the Owner is obtained.
 - a. The number of machines required.
 - b. Location of the machines in the workspace.
 - c. Description of the methods used to test air flow and pressure differential.
- C. System operation:
 - 1. A sufficient quantity of exhaust fans in existing window openings or other approved locations shall be operated in accordance with the following applicable standards.
 - 2. Exhaust air system shall operate for a minimum of 72 hours after work is completed, or until all materials have cured sufficiently as to stop out gassing of fumes or odors and area has been ventilated to remove all detectable traces of odors and fumes.
 - 3. Maintain twenty-five (25) feet clearance from all temporary exhaust outlets to all active building outdoor air intakes.

1.21 PROJECT MILESTONE SCHEDULE

- A. Substantial Completion is as follows:
 - 1. Stair #2 Renovation– September 2, 2022
 - 2. Area A (Addition) and Area B- August 4, 2023
 - 3. Area C – August 2, 2024
- B. See also Project Manual Section 00 3113 Milestone Schedule
- C. See the milestone schedule included in Addendum #1.
- D. All Prime Contractors are required to submit a schedule based on the milestone dates to the Construction Manager for review and comment no later than 10 days after a Notice to Proceed for the work is issued.

1.22 ALLOWANCES

- A. See Specification Section 01 21 00 – Contractor shall state where requested on the Bid Form the amount of the requested Allowance. Please note that Bid Item No. 1- Field Directive Allowance is required for all contracts and to be included in the Contractor's Total Base Bid.

1.25 UNIT PRICES

A. See Specification Section 01 2200- Unit Prices. Contractors shall state where requested on the ALTERNATES

B. The Contractor shall state where requested on the Bid Form the amount to be added to or deducted from the base bid for the alternates described in Section 01 23 00 - Alternates.

END OF SECTION 01 12 00