

SECTION 011200 – MULTIPLE CONTRACT SUMMARY

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Project Site:

- 1. Liberty Central School District – Maintenance Building

- B. This Section includes a summary of each Prime Contract, including responsibilities for coordination and temporary facilities and controls. One set of Construction Documents is issued covering the Work of multiple Prime Contracts. Each Prime Contract is responsible to review all drawings and specifications for specific requirements indicated, and for a general understanding and knowledge of the work of other Prime Contracts.

- 1. All Prime Contracts are responsible for all Work of their Contract no matter what drawing on which the Work appears.
 - 2. Separate Prime Contract are defined as follows:

- 1) Contract No. GC-01 – General Construction (GC)
 - 2) Contract No. MC-02 – Mechanical Construction (MC)
 - 3) Contract No. PC-03 – Plumbing Construction (PC)
 - 4) Contract No. EC-04 – Electrical Construction (EC)

- C. Related Sections include, but are not limited to, the following:

- 1. Division 01 Section "Work Restrictions" for use of the Project site and for requirements for continued Owner occupancy of premises.
 - 2. Division 01 Section "Project Management and Coordination" for general coordination requirements.
 - 3. Division 01 Section "Temporary Facilities and Controls" for specific requirements for temporary facilities and controls.

1.3 DEFINITIONS

- A. Building Site(s): The Building Site(s) shall be defined in the Construction Documents, as the building(s) footprint, and all related construction within a five-foot (5'0") distance of the building's exterior face, unless noted or assigned otherwise.

1. Prime Contractors shall be aware of, and coordinate, specific exceptions to the 5'0" limit indicated within each Scope of Work outline.
- B. Permanent Enclosure: As determined by the Architect, the condition at which roofing is installed and weather tight; exterior walls are weather tight and insulated; and all openings are closed with permanent construction or substantial temporary closures equivalent in weather protection to permanent construction.
 1. All costs associated with failure to provide and maintain described installations that result in any damage or contamination to the Owner's property, shall be borne by the Prime Contract responsible for the installation.

1.4 GENERAL REQUIREMENTS OF PRIME CONTRACTS

- A. Prime Contracts: The context used in this Section are separate Prime Contracts that represent significant elements of Work that is to be performed concurrently and in close coordination with the Work of other Prime Contracts for the benefit of the Owner. Each Prime Contract is recognized to be a significant, integrated part of the Work.
- B. Layout and Installation: Each Prime Contractor shall schedule, layout and install their Work in such manner as not to delay or interfere with, but to compliment the execution of the Work of other Prime Contractors, utility companies and Owner's operations.
- C. Extent of Contract: The Construction Documents, comprised of drawings and specifications, contain more specific descriptions of the Work, indicating which Prime Contract shall provide specific elements of the Project Work.
 1. Work provided by each Prime Contract shall mean complete and operable systems and assemblies, including products, components, accessories and installations required by the Construction Documents, respective manufactured product, or indicated otherwise.
 2. Prime Contractors shall exercise good judgment and perform all Work according to related industry standards.
 3. The Owner is exempt from payment of Federal, State and local taxes, including sales and compensating use taxes on all materials and supplies incorporated in completing the Work; these taxes are not to be included in the Bid. This exemption does not apply to tools, machinery, equipment or other property leased by, or to, the Prime Contractor or subcontractor, or to supplies and materials, which even though consumed are not permanently incorporated into the completed Work.
 - a. Prime Contractors, and their subcontractors, shall be responsible for paying all applicable taxes on said tools, machinery, equipment or property, and

upon all said unincorporated supplies and materials, whether purchased or leased.

4. Prime Contractors shall understand that time is of the essence and will adequately staff the Project by employing the appropriate trade's people to perform the Work; these people shall be experienced in their respective trades. A shortage of labor in the industry shall not be accepted as an excuse for not properly staffing the Project; all efforts shall be made to meet or exceed the schedule, including additional staff and/or labor hours necessary. All cost associated with this item shall be included within the Prime Contract's Bid.
 5. Local custom and trade union jurisdictional agreements or settlements will not control the scope of the Work of each Prime Contract.
 - a. When a potential jurisdictional dispute or similar interruption of Work is first identified or threatened, the affected Prime Contractor(s) shall promptly negotiate a reasonable settlement to avoid or minimize the pending interruption and/or delays.
 - b. Contractor's trade-related issues shall not be grounds for modification or extension of scheduled completion date(s).
 6. The Work of all Prime Contractors requires close coordination with other Prime Contractors and construction personnel. Maintain flexibility and cooperation through the Project. "Out of Sequence" and "Delay" claims will only be considered when requirements of Division 01 "Project Management and Coordination" have been adhered to.
 - a. Delay claims must be in writing and forwarded to the Architect per the requirements of the Conditions of the Contract. Claims not submitted per these requirements will be rejected and/or denied.
 7. The intention of the Work is to follow a logical sequence, however, a Prime Contractor may be required by the Architect, to temporarily install, omit or leave out a section(s) of Work, out of sequence. All such out of sequence Work, and come back time, at these areas shall be performed at no additional cost to the Owner.
- D. Substitutions: Per Division 01 Section "Product Requirements", each Prime Contractor shall cooperate with the other Prime Contractors involved, to coordinate approved substitutions with remainder of the Work.
- E. Construction Schedules: Refer to Division 00 Section "Preliminary Schedules", Division 01 Section "Construction Progress Documentation", Division 01 Sections "Construction

Schedules and Phasing" and "Project Management and Coordination" for requirements related to meetings and schedules.

- F. Construction Sequencing: Prime Contractors shall understand that concurrent construction on multiple areas/sites of this Project are a requirement. Should an area of construction not be complete per incremental milestones of the schedule included in the Contract Documents, the responsible Prime Contractor shall immediately augment the labor force, whether self-performed or subcontracted, to recover such lost time.
- G. Testing and Inspections by Owner: The Owner shall employ an independent qualified testing and inspection agency for evaluating and monitoring geotechnical soils work (excluding top soil analysis), compaction, cast-in-place concrete, asbestos and lead abatement monitoring and Special Inspections indicated in the Construction Documents (refer to Division 01 "Quality Requirements" and/or "Statement of Special Inspections" for additional specific information).
 - 1. Prime Contractor shall give one week's notice as to commencement for these requirements. Once underway, Prime Contractor shall coordinate with the Construction Site Representative(s) and give 48 hours' notice as to test(s) required, by Owner's Agency, and further verify the need 24 hours in advance. Full cooperation and coordination is expected of all Contractors and their personnel with the Owner's Testing Agency in fulfilling test requirements; provide all data and materials requested for required reports.
 - 2. Other than with regard to compliance with state and federal laws, the testing agency holds no execution authority other than to provide test results. Should testing indicate a discrepancy or non-compliance during execution of the Work, the Testing and Inspection Agent shall promptly notify the Prime Contractor and Construction Site Representative(s) of such; however, the Prime Contractor shall bear full responsibility for making any decision with regard to proceeding with, or stopping, the Work.
 - 3. Should a conflict or contradiction in assignment of testing responsibilities be indicated elsewhere in the Construction Documents, this Section shall take precedence over all other assignments of testing.
- H. Testing by Others: All testing requirements not listed in preceding paragraph "Testing & Inspections by Owner" or otherwise identified in Division 01 "Quality Requirements" and/or "Statement of Special Inspections" shall be the responsibility of the Prime Contractor providing the respective Work as indicated in the Construction Documents.
 - 1. The respective Prime Contractor shall have performed testing requirements indicated in individual Specification Sections which may inadvertently indicate "Owner to provide," which are not identified in preceding paragraph "Testing & Inspections by Owner".

2. Prime Contractor shall submit their Testing Agency qualifications to the Architect for approval prior to any test being performed. Construction Site Representative(s) shall be given 48 hours' notice of any test/inspections to be performed by Prime Contractor's Testing Agency. 24-hour notification shall be given to the Construction Site Representative(s) for test/inspections requiring his/her presence; 72-hour notification shall be given to the Architect for test/inspections requiring his/her presence.
 3. Determinations required of the Architect shall be anticipated by the Prime Contractor to allow ample time for inspection, investigation and reporting.
- I. Dewatering: Unless noted or assigned otherwise, each Prime Contractor is responsible for their own dewatering as it pertains to their Work, and subsequently any SWPPP requirements that may apply as related to such activities.
1. Should a Prime Contractor be responsible for water entering another Prime Contractor's Work area due to their activities, affected Prime Contractor shall notify the Construction Site Representative(s), in writing, so the issue can be immediately addressed.
- J. Existing Conditions: Each Prime Contractor shall verify existing conditions in the field and per the Conditions of the Contract, immediately report conditions to the Architect that are not represented correctly by the Construction Documents.
1. Each Prime Contractor is responsible for familiarizing himself with Project Site Logistics, whether represented in the Construction Documents, or in real time.
 2. Each Prime Contractor has been given ample opportunity to review existing conditions related to the Project. Existing conditions not noted in the Construction Documents that could be easily recognized during pre-bid review that interfere with the respective Prime Contractor's Work, shall be the responsibility of the respective Prime Contractor, including related costs associated with removal, patching, relocation or re-fabrication of installations.
 3. Owner shall be responsible for removing Owner's contents of spaces for construction during unoccupied periods. Prime Contractors shall be responsible for removing and/or protecting, and re-placing Owner's contents during occupied periods, where contractor needs to perform work (ie: second-shift). The contractor shall ensure that spaces worked in are clean, and as encountered when they entered the space, prior to the next business day.
- K. Protection of Installations: Each Prime Contractor is responsible for protecting their installations at all times. All costs incurred to repair, replace or clean insufficiently protected materials/installations shall be the responsibility of the installing Prime Contractor.

1. The Construction Site Representative(s) shall be notified, in writing, immediately upon material/installation being damaged. Notification shall support indication of the responsible party.
 2. The Owner will not be liable for damaged materials and/or installations by "others", when "others" cannot be identified.
 3. Repair damaged Work, clean exposed surfaces or replace construction installations that cannot be repaired.
 4. Each Prime Contractor shall be responsible for removing all labels not required to remain, from their installations.
 5. Installations shall be wiped clean and proper protection then installed.
- L. Daily Cleaning: All Prime Contractors are responsible for any and all debris and refuse generated by their Work, including the Work of their subcontractors. A daily clean up and disposal is required by each Prime Contractor for the periods which that Prime Contractor, or its subcontractors, are performing Work on site(s).
1. Maintaining a clean Project site(s) shall be deemed a Safety & Health issue, with Prime Contractors and designated Competent Persons being held accountable for fulfilling obligations.
 2. Daily cleaning will be mandated to remove from the building, any debris created by day-to-day activities.
 3. Daily cleaning will not mean any one Prime Contractor is responsible for assisting another Prime Contractor with removing major quantities of debris created by a particular Prime Contractor's Work.
 4. Contractor working solely in an area shall be responsible for cleaning of that area.
 5. Assign at least one person for a daily clean and sweep of the Work area(s). Prime Contractor shall allot sufficient manpower and time for this to be completed by the end of each days' shift.
 - a. Submit name of person(s) identified for this task to the Construction Site Representative(s).
 - b. Construction Site Representative(s) shall have the authority to give direction directly to person(s) on the Project Site(s) identified by the Prime Contract, designated for cleanup tasks.
 - c. Any Prime Contractor not providing personnel for daily cleaning will be Back-Charged for labor provided by the Owner or others retained to complete this task.
 6. General Construction (GC) Contractor shall provide sweeping compound for daily cleaning. Each Prime Contractor shall provide sufficient number of brooms or other necessary tools, for use by their personnel to adequately fulfill their obligations.

7. General Construction (GC) Contractor shall provide and maintain garbage cans/refuse containers with liners for each construction area as directed by the Construction Site Representative(s) and shall be responsible for disposing of these materials to a dumpster.
8. General Construction (GC) Contractor shall provide the necessary equipment/containers (lull/skip-box) to move daily clean/sweep debris from the building to a dumpster daily. Skip-box shall be emptied to a dumpster by 9:00 a.m. the following day.
9. General Construction (GC) Contractor shall be responsible for waste management (dumpsters, off-site disposal of demolished/removed materials, construction waste, etc.), for their own respective purposes, and for use by Mechanical, Electrical, and Plumbing Prime Contracts.
10. Final Cleaning: Following Substantial Completion of each area of construction, each Prime Contractor shall wipe/vacuum clean all respective installations.

1.5 GENERAL TEMPORARY FACILITIES AND CONTROLS OF PRIME CONTRACTS

- A. Conditions of Use: Keep temporary services or conditions clean and neat in appearance. Operate in a safe and efficient manner. Relocate temporary facilities as required as Work progresses; do not overload facilities or permit them to interfere with progress. Take necessary fire prevention measures; do not allow hazardous, dangerous, or unsanitary conditions to develop or persist on the Project site(s).
 1. Installation, operation, maintenance, and removal of each temporary service or condition are considered part of the respective Prime Contractor's own construction activity, as are costs and use charges associated with each facility.
 2. Locate service or condition where they will serve the Project adequately and with minimum interference of the Work, coordinate with the Construction Site Representative(s) and the other Prime Contractors prior to installation.
- B. Temporary Use of Permanent Facilities: Prime Contractor, as installer of each permanent service or condition, shall assume responsibility for its operation, maintenance and protection during use as a construction facility prior to the Owner's acceptance, regardless of previously assigned temporary facilities and controls responsibility.
- C. Owner's Facilities: Contractors are not allowed to use the Owner's facilities (toilets, telephones, food service, etc.) for their own benefit or convenience. Prime Contractor Superintendents shall enforce this policy with their respective Work forces.
 1. Construction personnel parking will be restricted to an area(s) indicated on the Site Logistics Plans (if included), or otherwise requested by the Owner. The

Owner reserves the right to remove from their property, unauthorized vehicles occupying unauthorized areas, at respective vehicle owner's expense.

- D. Storage on the Project Site: Each Prime Contractor shall provide sufficient secure weather-tight storage facilities for their materials and equipment. The Owner's facilities and the Project's building areas shall not be used for storage, unless agreed upon in advance via the Construction Site Representative(s).
 - 1. Until permanently incorporated into the Work, all materials on the Project site(s) are the Prime Contractor's responsibility for protection, security and insuring thereof.
 - 2. Prime Contractors and their subcontractors shall coordinate deliveries with the Construction Site Representative(s) to ensure that disruptions and Owner inconvenience are avoided.
- E. Tools and Equipment: Each Prime Contractor shall provide all tools and equipment necessary for its own activities and shall be responsible for secure lock-up and storage for all items on the Project Site(s).
 - 1. Each Prime Contractor shall provide all construction aids and miscellaneous services and facilities necessary, exclusively for its own construction activities including any additional supplementary power, ventilation, dehumidification, lighting requirements and weather protection.
- F. Project Site Communication: Each Prime Contractor shall provide their Project Superintendent and Competent Person with a wireless cellular telephone for the duration of the Project.
 - 1. Construction Site Representative(s) shall be furnished with contact numbers associated with each wireless telephone.
- G. Safety: Prime Contractors, not the Owner, Architect, or Construction Site Representative(s), are responsible for Project Site Safety, as related to their operations and OSHA compliance (refer to Section 013150 "Special Procedures" for further requirements).
 - 1. Each Prime Contractor shall designate a Competent Person, who shall be available to the Construction Site Representative(s) throughout the Project, in representing Safety of the Project Site.
 - a. A Competent Person is defined as one who through training and/or experience, can identify existing and predictable working conditions which are unsanitary, hazardous, or dangerous to employees, and who has the authority to take prompt corrective measures to eliminate such hazards.

- b. The Competent Person shall inspect all machinery and equipment before and during use to ensure that they are within safe working parameters. All deficiencies must be promptly repaired, and defective parts replaced before the machine or equipment can be used.
 - c. The Competent Person must have knowledge related to soil classification, protective systems, and safety standards related to excavation.
 - 2. Maintain unobstructed access to fire extinguishers, fire hydrants, ladders and other safety devices, egress paths, corridors, stairways, and exits.
- H. Fire Extinguishers: General Construction (GC) contractor shall provide and maintain "general use" fire extinguishers for each construction area at respective buildings where work is being performed; comply with applicable codes for quantities required. Comply with NFPA for recommended classes for exposure; extinguishers shall be inspected and appropriately tagged prior to being brought on site. Provide stands, painted bright orange, sturdy enough to carry the extinguisher, and built as not to create a tipping hazard.
 - 1. Each Prime Contractor shall supplement this requirement by providing additional fire extinguishers specifically related to their Work activity (e.g., welding, soldering, abrasive cutting, etc.).
 - 2. Each Prime Contractor shall provide and maintain proper fire extinguishers at/in their respective on site(s) office and storage facilities.
 - 3. Store combustible materials in approved containers in fire-safe locations.
- I. Welding: Any Prime Contractor performing welding, cutting or other activities with open flames or producing sparks shall at a minimum:
 - 1. Coordinate interruption/shutdown of detection system(s) to avoid creating false alarms.
 - 2. Protect the area and surrounding areas from fire and damage.
 - 3. Maintain fire extinguishers, compatible with activity, at the location of the activity.
 - 4. Provide a continuous Fire Watch during the activity and one-half hour beyond the completion of the activity.
 - 5. Provide all necessary fans and ventilation required for the activity.
- J. Temporary Barriers: Provide new materials whenever possible; undamaged, previously used materials, in serviceable condition, may be used if approved by the Construction Site Representative(s). Refer to the respective Specification Section when selecting materials and provide similar materials suitable for intended use.
- K. Relocation of Temporary Barrier: In the event a Prime Contractor requires relocation of a temporary barrier, Prime Contractor requiring relocation shall do so and shall protect all personnel in the Work area during the relocation.

1. Initial installing Prime Contractor shall coordinate the location of barriers with other Prime Contracts, prior to placement of the barrier.
 2. If a barrier must be located such that it will interfere with another's Work, the Contractor requiring the Work now interfered with shall relocate the barrier as required to install his Work.
 3. Coordinate with Construction Site Representative(s).
- L. Termination and Removal of Barriers: Remove each temporary facility when it can be replaced by the authorized permanent facility no later than Substantial Completion, or as directed by the Architect and/or Construction Site Representative(s). Complete or restore permanent facilities that may have been delayed due to interim use of a temporary barrier or condition.

1.6 WORK SEQUENCE

- A. Normal "first shift" work hours are anticipated to be 7:00am to 3:30pm.
- B. "Second shift" work hours shall be anticipated to be 3:00pm to 11:00pm. Coordinate "second shift" and weekend work requirements with the Owner via the Construction Site Representative(s).
1. Interruption of any utility and/or power must be coordinated with the Owner, via the Construction Site Representative(s). Shut-downs must be approved in writing.
 2. Each Prime Contractor shall provide multiple crews, supervision, tools, cranes, scaffold and other means necessary to perform the Work and maintain the schedule.
 3. Should a Contractor's progress fall behind schedule, Prime Contractor shall employ additional shifts and/or overtime and/or weekend workforce until situation is rectified to the satisfaction of the Owner, Architect, and Construction Site Representative(s), at no additional cost to the Owner.
- C. The Work shall be conducted to provide the least possible interference to the activities of the Owner's personnel and academic calendar.
1. All Prime Contractors and their subcontractors shall abide by any local ordinances and shall limit excessive noise during "second shift" operations so as not to create a disturbance to neighboring properties.
- D. Utilize Project Forms provided by CSArch, for the installation and coordination of the Work. These forms are provided to assist this Prime Contractor with coordinating the installation of Work by others, prior to enclosing and or finishing Work. Owner will not compensate Prime Contractors for Work not properly coordinated that result in added

Work, or removal of Work. Secure the proper signatures or acknowledgements, as indicated, prior to installing/completing the Work.

- E. Construction access to the site(s) shall be limited to personnel, equipment and deliveries by suppliers relative to the Work of Prime Contractors and their subcontractors. Prime Contractors shall keep the Construction Site Representative(s) advised of persons accessing the site(s) and shall seek assistance with coordinating parking and storage facility locations for all Prime Contractors.
 - 1. General Construction (GC) Contractor shall provide temporary fence/barricades/work area protection at each respective work area on the site(s), to secure work zones from access by unauthorized persons/public while construction operations constitute an area restricted to construction personnel, and while related site construction is underway.
 - 2. General Construction (GC) Contractor shall provide temporary fence/barricades/work area protection at each respective building work area, to secure work zones from access by unauthorized persons/public while building additions or renovations constitute an area restricted to construction personnel, and while related site construction is underway.

1.7 GENERAL CONSTRUCTION (GC) – CONTRACT NO. 01

- A. Applicable Drawings: All drawings itemized are to be provided complete by this Prime Contract, unless noted otherwise, as follows:
1. General (G-Series)
 2. Architectural Demolition (AD-Series) - Coordination related to this Prime Contract
 3. Site/Civil (C-Series)
 4. Structural (S-Series)
 5. Architectural (A-Series)
 6. Architectural Finishes (AF-Series)
 7. Electrical Site (ES-Series) - Coordination related to this Prime Contract
- B. Applicable Specification Sections: All specification Sections itemized are to be provided complete by this Prime Contract, unless noted otherwise, as follows:
1. Divisions 00-14 – All Sections
 2. Divisions 22-28 - Coordination related to this Prime Contract
 3. Divisions 30-34 – All Sections
- C. Project Site Superintendent: Prime Contractor shall provide a full time Project Site Superintendent while any Work related to this Contract is being performed, including the activities of their subcontractors, while other Prime Contractors are installing Work, or require the coordination of Work related to this Contract, and/or as requested by the Construction Site Representative(s).
1. Superintendent may be a Working individual provided that the daily requirements of the Contract are maintained, as they relate to the Construction Documents and the Project Schedule. The Construction Site Representative(s) reserves the right to revoke this privilege if in their opinion these requirements are not maintained.
 2. Superintendent shall participate in weekly meetings to schedule and coordinate the Work, in a manner that best promotes the Master Construction Schedule and the objectives of the Project.
 3. Superintendent shall be able to make binding decisions on behalf of the Prime Contractor, as they relate to the daily activities of their crew, adjustments in Work scope, and achieving the goals of the Project.
 4. Prime Contractor shall submit the resume of proposed Superintendent for approval by the Owner and CSArch prior to commencement of the Contract.
 - a. Project Site Superintendent shall be an individual with minimum of two (2) years' experience in this field of Work.

- b. Superintendent shall have a minimum of one (1) years' experience working for the Prime Contractor and be the same individual throughout the duration of the Project.
 - c. Refer to Division 01 Section "Project Management and Coordination" for further requirements.
- D. Scope of Work: Work of the General Construction (GC) Contract includes but is not limited to, the following;
 - 1. For reference, the Work delineation between "building" and "site" is at five feet (5'0") outside of the face of building existing and new.
 - a. The "building" includes the entire footprint of the newly constructed Maintenance Building the area five feet (5') outside that footprint.
 - b. The "site" includes the entire construction area of the new developed property excluding the entire footprint of the newly constructed Maintenance Building plus the area five feet (5') outside that footprint.
 - c. The GC is responsible for Work for the "building" and the "site".
 - 2. Prime Contractor shall understand that Project may require Work to proceed while existing systems are required to be maintained; all cost associated with this sequence shall be incorporated into the Bid.
 - 3. Environmental Protection: Provide protection and conduct construction in ways and by methods that comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
 - a. Restrict use of noisemaking tools and equipment to hours that will minimize complaints from persons or firms on or near the Project Site.
 - b. Provide dust control while Work of this Contract is being performed. Limit situations that may create dust contamination while Work of this Contract is idle.
 - c. Refer to Section 01 "Work Restrictions" for additional information.
 - 4. Provide building demolition, removal, and disposal of the existing structure and contents. Work includes the furnishing of all scaffolding, equipment, hauling, machinery, labor, materials, supervision, tools, supplies, services and insurance, and shall perform all other acts and supply all other materials and services including, but not limited to, alt light, power, heat, water and sanitary facilities for workmen during the progress of the work.
 - 5. Provide demolition, removal, and disposal of the existing building slab and building foundations.

6. Provide demolition, removal and disposal of existing parking areas, driveways and walkways as indicated on drawings.
7. Remove and dispose of existing utilities as indicated on drawings.
 - a. Cap all domestic water lines, fire lines and sewer lines located at the building or uncovered in the demolition process. The method of capping or plugging will be determined by the type of material encountered.
8. Project-specific Storm Water Pollution Prevention Plan (SWPPP): Provide implementation and maintenance of NYS regulated SWPPP as applicable to the Work of this Project. Provide management facilities including, but not limited to, earthen embankments and similar barriers in and around excavations and sub grade construction to maintain existing storm water flows and prevent flooding by runoff of storm water from heavy rains.
 - a. Related information is incorporated into the Construction Documents, however a complete approved SWPPP is available as a publication in the Construction Documents.
 - b. Before construction begins, this Prime Contractor, and any appropriate/designated subcontractors, shall execute a SWPPP Contractor's Certification Statement prior to commencement of construction activities.
 - c. Employ the professional services of a certified SWPPP inspector, whether independent or as an employee, to perform inspections per the requirements of the SWPPP, from the time of mobilization, until such point that the site is stabilized, and the NOT (Notice of Termination) is prepared and forwarded to the Architect for Owner's filing with NYSDEC.
 - d. Refer to the Storm Water Pollution Prevention report included in the Construction Documents for additional requirements.
9. Obtain all permits required by NYS, NYSDOT, town/village of Liberty, and/or Sullivan County, required to perform the Work of this Prime Contract.
 - a. GC shall directly coordinate the Work of this Prime Contract with the respective authorities having jurisdiction of the highway right-of-way(s).
10. Provide all Control Lines and Elevations as required. GC shall transfer lines and elevations to other locations as necessary.
11. Provide all site improvements indicated in the Construction Documents, unless specifically noted otherwise, including but not limited to earthwork, utilities systems, and retaining walls.
12. Provide backfilling, regrading, and compacting of all site areas where demolition was completed, and underground utilities were removed.

13. Provide trenching/excavation and compacted backfill operations related to new underground utility installations.
 - a. These installations include but are not limited to:
 - 1) Below-grade electrical distribution and pole bases furnished by EC
 - 2) Below-grade water and gas distribution and equipment furnished by PC.
 - 3) Below-grade sanitary drainage and storm water distribution and equipment furnished by GC.
14. Provide trenching and compacted backfill operations for underground utility installations for all Prime Contracts.
 - a. Trenching shall extend to face of building(s).
15. Provide all underground storm water drainage and structures.
 - a. GC shall understand that underground storm water systems will not be installed until all large-scale operations of site development and building construction are complete, whereas no heavy equipment will travel over installation, until asphalt and concrete paving is completed.
16. Provide all underground sanitary piping and structures, as well as Work associated with sanitary lift station(s), as applicable.
 - a. GC shall understand that underground sanitary systems will not be installed until all large-scale operations of site development and building construction are complete, whereas no heavy equipment will travel over installation, until asphalt and concrete paving is completed.
 - b. GC shall be responsible for all wiring and connections of pump system(s), alarms, and controllers. EC shall be responsible only to bring power circuit(s) to pump system controller(s). GC shall provide all related trenching and backfill work associated with underground power circuits.
17. Provide all asphalt pavement removals, replacement, and new, sub-base materials, sealants, coatings and markings (striping, etc.) as indicated.
 - a. Repair/replace all existing areas scheduled to remain, that are damaged by truck or equipment traffic. Verify existing conditions prior to beginning of Work, bringing any issues to the Construction Site Representative's attention.

18. Provide all removals, replacement and new concrete sidewalks, curbs, concrete paving, and slabs-on-grade as indicated.
19. Provide all restoration, final grading and landscaping as indicated in the Construction Documents.
20. Provide all protective bollards.
21. Provide all below-grade general building construction, including but not limited to, shoring, excavation, sheeting, dewatering, backfill, concrete footings/ foundations, structural mats, grade beams, damp proofing, waterproofing, filter fabric, insulation and aggregate structural backfill material as indicated in the Construction Documents.
 - a. Provide all concrete steps, aprons, ramps, and walk off pads, cheek walls, insulation, and retaining walls, including those beyond the 5' limit line, connected directly to the building and/or supported by foundations, including related nosing, treads, pipe and/or tube railings, etc.
22. Provide Grease Trap and Oil / Water Separator as necessary for a fully operational system.
23. Provide all structural steel, metal fabrications, bar joists, roof decks, roof drain sump pans, cold-formed framing, and their accessories, unless noted otherwise.
 - a. Provide all primary and secondary framing requirements for all roof penetrations, for all Prime Contractors.
 - b. Provide all primary and secondary framing requirements for all floor penetrations indicated on the Architectural and/or Structural drawings.
 - c. Coordinate Work with all other Prime Contractors.
24. Provide all Work associated with creating structural openings or penetrations requiring lintels, whether for GC's own Work or Work of the MC, EC or PC (i.e.: ductwork and pipe penetrations). This applies to all openings/penetrations greater than 8" through masonry or concrete walls. GC can find likely locations of such openings/penetrations by noting ductwork/piping penetrations through walls on the respective Mechanical, Electrical, or Plumbing drawings. More or less locations of openings/penetrations may be required upon coordinated installation.
 - a. MC, EC & PC shall indicate all required openings/penetrations requiring lintels on Coordination Drawings. Failure to note required openings/penetrations on the coordination drawings for the GC will require that the respective MC, EC & PC provide their own structural openings in accordance with the contract documents at no additional cost to the Owner.

- b. Non-structural openings/penetrations, including those for convenience, shall be self-provided by the respective GC, MC, EC or PC.
 - c. Refer to Structural documents for lintel type/size requirements and Architectural drawings for wall types. Walls not specifically identified in the documents are to be assumed as masonry construction.
 - d. All scheduled exterior wall louver openings indicated on Architectural and/or Structural documents are to be created by GC. MC shall supply the louver. GC shall install, flash, and seal the louver. MC to make final connections to louvers. Exact physical locations shall be laid-out by MC for coordinated sequencing with GC.
 - e. All openings/penetrations are to be additionally identified on Record Drawings, by the Prime Contract requiring the opening.
25. Provide all work associated with the communications siren. Coordinate trenching/excavation and base requirements with EC.
26. Provide all work associated with stairs, steps, and ramps, and their support systems, including but not limited to reinforcing, nosings, and structural framing members.
27. Provide all new roofing systems:
- a. Coordinate with other Prime Contracts for required roof related Work.
 - b. Provide all secondary framing/structural steel at all roof installation locations identified in the Construction Documents; coordinate with MEP roof plans and shop drawings.
 - c. Provide all new copings/fascia, as indicated.
 - d. Provide all expansion joints as shown and/or per industry standards or Manufacturers recommendations.
 - e. GC shall install all roof curbs (assembled MEP curbs furnished by respective trade), pipe portals, etc. including required blocking. GC shall provide temporary weather tight enclosure at these locations.
 - f. Provide all roof scuppers where indicated and at overhangs not receiving roof drains.
28. Provide all doors, frames, hardware, windows, and glazing as per the Construction Documents.
- a. Coordinate voltage requirements of electro-magnetic hold-open devices and hold-open closers for compatibility with power source and/or new and/or existing Fire Alarm system.
 - b. All controls wiring of sectional overhead doors and overhead coiling doors shall be provided by sectional overhead door vendor/subcontractor (GC). EC shall provide circuit to associated point of connection.

- c. All internal line voltage and low voltage wiring/final connections of Access Control system at door openings shall be provided by EC. Coordinate with GC installation of doors, frames, and hardware.
- 29. Provide all cut and patch Work related to that of this Prime Contract, and at those areas specifically identified in the Construction Documents, regardless of trade creating the area to be patched.
 - a. Each Prime Contract is responsible for all other respective cutting and patching required of their installations (refer to Section "Cutting and Patching" for further information).
- 30. Provide all floor hatches/doors as indicated in the Construction Documents.
 - a. Coordinate installations with early construction activities, to provide access to respective areas by all Prime Contractors, for which these are intended for.
 - b. Provide all related structural modifications and finishes.
- 31. Provide all access doors/panels indicated, and those not indicated whereas inaccessible installations have been provided by this Prime Contract, located above hard ceilings or in walls.
- 32. Provide finishes including, but not limited to; CMU, gypsum board assemblies, plaster, suspended ceiling systems, and all paint, flooring and finishing systems.
 - a. Provide all associated surface preparation for each finish included in this Prime Contract.
 - b. Prep/Paint exposed structural steel and/or concrete including related deck, as indicated in the Construction Documents.
 - c. Prep/paint all exposed, unfinished ducts and conduit in related finished areas.
- 33. Provide all new ceiling systems as indicated in the Construction Documents, complete.
 - a. Coordinate with Lighting, PA, Fire Alarm, etc. by EC.
 - b. Coordinate with Registers, Grilles, etc. by MC.
 - c. In Acoustic Panel Ceiling systems, install field tiles only upon approval by the Construction Site Representative(s) to do so. Failure to seek prior approval may require tiles to be removed for further work and/or inspections.

34. Provide all miscellaneous wood blocking, shimming and supports for items or equipment installed under this Prime Contract, and as coordinated with other Prime Contractors for metal strapping and/or wood blocking for installations of other Prime Contracts.
 35. Provide through-penetration fire-stop systems in unit masonry assemblies and at all structural member penetrations.
 36. Provide fire-resistive joint systems at all wall terminations at floor and roof decks, and abutment of fire-rated partitions with walls or deck, or of different construction types of this Prime Contract.
 37. Final connection of utilities to equipment provided by this Prime Contract, are by MC, EC and PC, unless noted or assigned otherwise.
 38. Provide concrete housekeeping and structural pads for equipment provided under this Prime Contract, and those under MC, EC and PC Prime Contracts. MC, EC and PC shall coordinate size, orientation and location with GC, by way of providing physical layout, and verification prior to construction thereof.
 39. Provide concrete pads/slabs on grade for new on-grade fuel storage tank, water service Hot Box, emergency generators, on-grade transformers, and other equipment.
 40. Provide all ornamental iron, and/or pipe and tube railings considered to be components of or accessories to the building.
 41. Provide Project Site survey as supplemental Record Documents, and all other requirements of this Contract.
 42. Refer to Division 00 Section "Project Forms" and make use of these forms for the installation and coordination of the Work. These forms are included to assist this Prime Contract with coordinating the installation of Work by others prior to enclosing and/or finishing work. Owner will not compensate Prime Contract for work not properly coordinated that result in added work, or removal of work. Secure the proper signatures or acknowledgements, as indicated, prior to installing/completing the Work.
- E. Supplemental Temporary Facilities and Controls by GC includes but is not limited to:
1. Waste Disposal Facilities: Provide general debris/refuse/construction waste containers and waste management (dumpsters, off-site disposal of demolished/removed materials, etc.), for their own respective purposes, and for use by Mechanical, Electrical, and Plumbing Prime Contracts.
 2. Misc. Temporary Fences, Gates and Barricades: Provide and maintain temporary fencing and barricading to keep unauthorized persons away from interior and exterior excavations and/or construction areas for which this Prime Contract is responsible.

- a. Coordinate via Construction Site Representative(s), at commencement of, and completion of construction areas, including but not limited to those indicated in the Construction Documents.
3. Dewatering Facilities and Drains: GC shall be responsible for dewatering of any/all areas required to achieve the Work of this Prime Contract, whether interior or exterior.
4. Temporary Doors, Frames & Wall Assemblies: Provide, maintain and eventually remove all temporary installations per OSHA Regulations, Industry Standards, or as indicated in the Construction Documents.
 - a. Provide fire rated assemblies as required.
 - b. Provide exit (panic bar/crash bar) devices at locations of egress.
 - c. Coordinate locations with Construction Exiting Plan, Sequencing/Phasing Plans, and the Construction Site Representative.
 - d. Temporary doors shall be constructed using 1/2' plywood and 2x construction, equipped with hasps, locks, handle and latch mechanism, and spring or counter weight installed to allow door to close after opening.
 - e. Permanent doors will not be used in temporary conditions.
5. Temporary Window Openings: Window openings shall be enclosed using 2x construction, 1/2' plywood, and reinforced polyethylene. Where window opening starts at or near the floor, plywood shall be installed from finish floor to minimum of 42" AFF; reinforced poly may be installed from this point up. Should contractor choose to install plywood across the entire opening, sufficient area will be installed with reinforced poly to allow emergency escape, if required, and to allow natural light into the work area.
 - a. Installation shall be insulated if temporary heat or cooling is being employed.
6. Temporary Exterior Wall Enclosure: Provide and maintain temporary enclosures for weather protection and security of the construction in progress up until completion of permanent installation specified. Enclosures shall protect the building from exposure, foul weather, other construction operations, and similar activities. Provide temporary weather tight enclosure for building exterior.
 - a. Where heating and cooling is needed and permanent enclosure is not complete, provide insulated temporary enclosures. Coordinate enclosure with venting and material drying or curing requirements to avoid dangerous conditions and effects.
 - b. Install tarpaulins securely; install fire retardant materials only.

- c. Where temporary wood enclosures exceed 100 sq. ft. in area, use fire retardant treated materials for framing and sheathing.
 - d. All cost incurred to repair and/or replace materials damaged, due to the failure of GC to provide and maintain weather tight enclosure shall be borne by this Prime Contract. This includes any contamination of materials that may lead to the introduction of mold and mildew.
 - e. Immediately notify the Construction Site Representative, in writing, as to damage to temporary enclosures by "others"; identify responsible party in the submission. Owner shall not be liable for damages caused by "others" if Prime Contract cannot identify responsible party.
7. Temporary Sanitary Facilities: Provide temporary self-contained toilets units for duration of the project for use by forces of all Prime Contracts (including abatement and demolition phases) and their subcontractors, until completion of Punch List work, and closeout of the Contracts.
- a. Comply with regulations and health codes for type, number, location, operation, and maintenance of fixtures and facilities.
 - b. Provide separate facilities (minimum of one ea.) for male and female personnel in proportion required by OSHA.
 - c. Shield toilets to ensure privacy.
 - d. Coordinate mobilization and demobilization of units with Construction Site Representative(s).
 - e. Toilets shall be cleaned at least once per week, with additional facilities or cleanings provided if requested by Construction Site Representative(s).
 - f. Provide and maintain adequate supply of toilet tissue and hand sanitizer for each facility.
8. Indoor air quality management at all areas of Construction, once building is enclosed.
- a. Provide all necessary dust partitions, fans, temporary ducts, and barricades to properly contain and ventilate all work area fumes and odors, created by demolition and new construction or alterations, directly to the outside. Ventilate to an area outside the building, sufficiently away from the building, as not to contaminate other areas. There will be no additional claims honored if the Construction Site Representative requests additional ventilation or requirements.
 - b. Provide and exhaust air system for the project indoor areas that could produce fumes, VOC's, off gasses, dusts, mists, or other emissions.
 - c. System Operation:

- 1) A sufficient quantity of exhaust fans in existing window openings or other approved locations shall be operated.
 - 2) Exhaust air system shall operate for a minimum of 72 hours after work is completed or until all materials have cured sufficiently so 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 25 feet clearance from all temporary exhaust outlets to all active building outdoor air intakes.
 - 4) Refer to Division 01 Section “Work Restrictions” for further information.
9. Project Signage: Provide Project sign(s), and any/all construction signage indicated in the Construction Documents.
 - a. Coordinate installation via Construction Site Representative(s).
10. Temporary Roads: Construct and maintain temporary roads, staging areas, and paved areas adequate to support loads and to withstand exposure to traffic during entire construction period. Install field office, construction storage trailer, and staging areas, within construction limits as indicated, or if not indicated, as directed by the Construction Site Representative.
 - a. Coordinate elevations of temporary roads with permanent roads and paved areas. Install protective measures to limit contamination of existing/new catch basins and UG systems.
11. Road Cleaning: Maintain public/municipal roads, parking and all walkways in clean condition including removal of debris due to this Prime’s traffic on the Project Site. Provide for clear and safe access and use of site.
 - a. Provide cleaning as required, or directed by CSArch, until Substantial Completion as determined by Construction Site Representative and signed off on by the Architect.
 - b. Provide daily cleaning of Project accesses and roads, as required or directed, for all Prime Contracts.
 - c. Road cleaning equipment to be wet/vacuum type. Site entrance area shall be cleaned and maintained as not to create a hazard to local traffic or as directed by the Construction Site Representative.
12. Traffic Controls: Provide temporary traffic controls at junction of temporary roads with public roads. “Project Entrance” sign will be clearly identified along with signage indicating “Caution: Construction Entrance/Deliveries Ahead” from both directions. A “Stop” sign and a “One Way” sign will be installed at the intersection

- of the site exit and the adjacent Municipal road. Coordinate locations of all signage with the Construction Site Representative(s), and/or install per required regulations.
13. Provide full time flag person(s) while any Work is in progress in and/or around travel zones.
 14. Misc. Site Restoration: GC shall provide site restoration as required following demobilization of laydown/staging, storage and Field Office locations.
 15. Snow and Ice Removal: Provide removal of snow and ice until Substantial Completion of the Project, or as required avoiding delays in the Schedule.
 - a. Removal includes temporary roadways, contractor parking areas, staging areas, sidewalks, exterior temporary ramps and stairs within the construction and staging area.
 - b. Removal shall include open areas of the Project building that is under construction, including, but not limited to: SOG, SOD and roof deck areas.
 16. Construction Site Representative's Field Office: Provide separate temporary Field Office to be located at Project Site, for Construction Site Representatives' principal use throughout the Project until a minimum of 30 days following Substantial Completion of all Contracts.
 - a. Coordinate mobilization and demobilization of Field Office with Construction Site Representative(s).
 - b. Office trailer shall be equipped as indicated, including heat and air conditioning.
 - 1) Temporary office shall be a minimum size of 12' x 48', based on an open-plan with one internal office with lockable door.
 - 2) Unit shall not include restroom.
 - 3) Unit shall be blocked, leveled, and fully skirted.
 - 4) Provide stair units with roof and handrails at each entry/exit door.
 - 5) Submit proposed unit plan to Construction Site Representative(s) for approval prior to procurement. Construction Site Representative may additionally visit/review unit in advance of approval.
 - c. Provide the following furnishings, equipment and services with Field Office. Construction Site Representative(s) shall have the right to reject inferior/antiquated furnishings:
 - 1) 1- field fabricated plan table as indicated, or as directed by the Construction Site Representative(s).
 - 2) 1 - 3'x4' tack able surface.
 - 3) 1 - 4'x6' grid-style dry-erase marker board.

- 4) 4- 6' folding tables (or approved conference table) and 12 folding chairs.
- 5) Desk and task chair.
- 6) Bottled water service.
- 7) Rented or leased commercial copy/scan/print machine, capable of 8.5 x 11" and 11 17" color reproductions via networkable connection. Include supply and maintenance for duration of the project.
- 8) High-speed internet service, to be installed in CSArch Field Office, and extended to contractors' Field Office(s).
- 9) 1- General use fire extinguisher.
- 10) 1 – Keurig K-Cup coffee machine (new).

1.8 MECHANICAL CONSTRUCTION (MC) – CONTRACT NO. 02

- A. Applicable Drawings: All drawings itemized are to be provided complete by this Prime Contract, unless noted otherwise, as follows:
 - 1. General (G-Series)
 - 2. Mechanical General (MG-Series)
 - 3. Mechanical (M-Series)
- B. Applicable Specification Sections: All specification Sections itemized are to be provided complete by this Prime Contract, unless noted otherwise, as follows:
 - 1. Divisions 00 & 01 – All Sections
 - 2. Divisions 02-22 – Coordination related to this Prime Contract
 - 3. Division 23 – All Sections
 - 4. Divisions 26-34 Coordination related to this Prime Contract
- C. Project Site Superintendent: Prime Contractor shall provide a full time Project Site Superintendent while any Work related to this Contract is being performed, including the activities of their subcontractors, while other Prime Contractors are installing Work, or require the coordination of Work related to this Contract, and/or as requested by the Construction Site Representative(s).
 - 1. Superintendent may be a Working individual provided that the daily requirements of the Contract are maintained, as they relate to the Construction Documents and the Project Schedule. The Construction Site Representative(s) reserves the right to revoke this privilege if in their opinion these requirements are not maintained.
 - 2. Superintendent shall participate in weekly meetings to schedule and coordinate the Work, in a manner that best promotes the Master Construction Schedule and the objectives of the Project.
 - 3. Superintendent shall be able to make binding decisions on behalf of the Prime Contractor, as they relate to the daily activities of their crew, adjustments in Work scope, and achieving the goals of the Project.
 - 4. Prime Contractor shall submit the resume of proposed Superintendent for approval by the Owner and CSArch prior to commencement of the Contract.
 - a. Project Site Superintendent shall be an individual with minimum of two (2) years' experience in this field of Work.
 - b. Superintendent shall have a minimum of one (1) years' experience working for the Prime Contractor and be the same individual throughout the duration of the Project.
 - c. Refer to Division 01 Section "Project Management and Coordination" for further requirements.

- D. Scope of Work: The Work of this Prime Contract includes but is not limited to, the following:
1. Work delineation between building and site(s) is at five feet (5'0") outside of the face of building, existing and new, unless noted or assigned otherwise.
 - a. The "building" includes the entire footprint of the newly constructed Maintenance Building plus the area five feet (5') outside that footprint.
 - b. The "site" includes the entire construction area of the new developed property excluding the entire footprint of the newly constructed Maintenance Building plus the area five feet (5') outside that footprint.
 - c. The MC is responsible for Work for the "building" and any installation of underground utilities on the "site" related to the work of this Prime Contract.
 2. All new heating system components must be protected, from potential contamination. Once the building is occupied, the building shall be heated to a minimum of 65 degrees F for the heating period of September 15th – May 31st.
 3. Environmental Protection: Provide protection and conduct construction in ways and by methods that comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
 - a. Restrict use of noisemaking tools and equipment to hours that will minimize complaints from persons or firms on or near the Project site(s).
 - b. Refer to Section 01 "Work Restrictions" for additional information.
 4. The HVAC Drawings are schematic in nature, and the MC will make adequate provisions to accommodate the actual field conditions without additional cost to the Owner.
 5. GC shall provide concrete housekeeping and structural pads for equipment provided under this Prime Contract. MC shall coordinate size, orientation and location with GC, by way of providing physical layout, and verification prior to construction thereof.
 6. GC shall provide all Work associated with creating structural openings or penetrations requiring lintels, whether for their own Work or Work of the MC, EC or PC (ie: ductwork and pipe penetrations). This applies to all openings/penetrations greater than 8" through masonry or concrete walls.
 - a. MC, EC & PC shall indicate all required openings/penetrations requiring lintels on Coordination Drawings. Failure to note required openings/penetrations on the coordination drawings for the GC will require

- that the respective MC, EC & PC provide their own structural openings in accordance with the contract documents at no additional cost.
- b. Non-structural openings/penetrations, including those for convenience, shall be self-provided by the respective Prime Contract. This assignment applies to new and existing construction areas.
 - c. Refer to Structural documents for lintel type/size requirements and Architectural drawings for wall types. Walls not specifically identified in the documents are to be assumed as masonry construction.
 - d. All scheduled exterior wall louver openings indicated on Architectural and/or Structural documents are to be created by GC. MC shall supply the louver. GC shall install, flash, and seal the louver. MC to make final connections to louvers. Exact physical locations shall be laid-out by MC for coordinated sequencing with GC.
 - e. All openings/penetrations are to be additionally identified on Record Drawings, by the Prime Contract requiring the opening.
7. GC shall provide all cut & patch Work, related to that of their Prime Contract, and at those areas specifically identified on the Construction Documents, regardless of trade creating the area to be patched.
- a. Each Prime Contract is responsible for all other respective Cutting & Patching required of their installations (refer to Section 017310 for further information).
8. Provide installation of new HVAC system(s), or modifications of existing system(s) as indicated in the Construction Documents, complete and fully operational.
- a. MC shall furnish all related electrical disconnects, variable speed drives and motor starters (including related "heaters, fuses, and phase protection relays") for all equipment provided under this Contract, for coordinated installation by EC.
 - b. MC shall provide controls as referenced in the Construction Documents. MC shall install controls and instrumentation devices, including but not limited to control valves, control dampers, thermowells, pressure probes, flow switches, airflow metering stations, insertion flow meters, and ultrasonic flow meters, required for system operations and as indicated. Such devices will be furnished by vendor to the MC for coordinated installation in HVAC systems.
 - 1) MC shall provide line voltage power for control panels, line voltage valves, actuated dampers, motors, etc. that are not indicated in the E drawings.

- 2) MC shall provide all low voltage wiring of controls, transformers, actuated dampers, motors, etc., as required for a complete operational system.
9. Provide thermal insulation and identification of all HVAC system/components provided/installed by this Prime Contract.
10. Final connections of utilities are by MC, EC and PC, unless noted or assigned otherwise.
11. MC shall hang streamers from all above-ceiling equipment that will require access. This is in addition to any specification requirements for tags, labels, etc. Coordination Drawings shall highlight these areas for Architect's and Engineer's review.
12. Provide all access doors/panels to access inaccessible installations (i.e. valves) provided by this Prime Contract, such as above hard ceilings or in walls. Access panel type shall be same as GC approved submittal, and in sizes adequate for easy access and or replacement of installation.
13. Provide sleeves required for piping penetrating walls, slabs and/or decks for Work of this Prime Contract.
14. Provide through-penetration fire stop systems at all penetrations made by MC for utility penetration of this Prime Contract, maintaining listed ratings of indicated assemblies. Provide repair of existing through-penetration fire stopping damaged by Work of this Prime Contract.
 - a. Sleeves with fire stopping are to be installed in sequence with fire-rated construction. This Prime Contract shall be responsible for installing fire stopping material at intersection of sleeve and constructed materials.
15. Provide coordination with, and notification to, the Construction Site Representative(s) for all specified testing, training, commissioning, etc., of the Work of this Prime Contract.
16. Substantial Completion: Clean all MC installations and provided equipment at the time of Substantial Completion or as directed by Construction Site Representative(s).
- E. Supplemental Temporary Facilities and Controls by MC include, but are not limited to, the following:
 1. Waste Disposal Facilities:
 - a. General debris/refuse/construction waste containers (dumpsters) shall be provided by GC, for use by MC.
 - b. It shall be the responsibility of this Prime Contract to recycle metals generated by its Work, and the Work of its subcontracts.

- 1) Joint effort recycling by all Prime Contracts is encouraged.
2. Indoor air quality management at all areas of Work by this Prime Contract, once building is enclosed.
 - a. Provide all necessary dust partitions, fans, temporary ducts, and barricades to properly contain and ventilate all Work area fumes and odors, created by demolition and new construction or alterations, directly to the outside. Ventilate to an area outside the building, sufficiently away from the building, as not to contaminate other areas. There will be no additional claims honored if the Construction Site Representative(s) requests additional ventilation or requirements.
 - b. Provide and exhaust air system for the project indoor areas that could produce fumes, VOC's, off gasses, dusts, mists, or other emissions.
 - c. System Operation:
 - 1) Provide temporary dust/fume protection at areas of Work of this Contract to limit contamination of surrounding areas. All cost incurred, by the Owner, for added cleaning expenses, due to the failure of this contract to provide and maintain adequate dust/fume protection, for the Work of this Contract, shall be borne by this Contract.
 - 2) A sufficient quantity of exhaust fans in existing window openings or other approved locations shall be operated.
 - 3) Exhaust air system shall operate for a minimum of 72 hours after Work is completed or until all materials have cured sufficiently so as to stop out – gassing of fumes or odors and area has been ventilated to remove all detectable traces of odors and fumes.
 - 4) Maintain 25 feet clearance from all temporary exhaust outlets to all active building outdoor air intakes.
 - 5) Refer to Division 01 Section "Work Restrictions" for further information.
3. Provide all shoring required for Work of this Contract, including but not limited to;
 - a. Cutting or altering of existing construction.
 - b. Provide protection of all new and existing surfaces during the Work. Do not stand, walk or Work off of any unprotected finished surface above the floor.

4. Maintain temporary fencing and barricading to keep unauthorized persons away from excavations and hazardous areas for which this Prime Contract is responsible.

1.9 PLUMBING CONSTRUCTION (PC) – CONTRACT NO. 03

- A. Applicable Drawings: All drawings itemized are to be provided complete by this Prime Contract, unless noted otherwise, as follows:
 - 1. General (G-Series)
 - 2. Plumbing General (PG-Series)
 - 3. Plumbing (P-Series)
- B. Applicable Specification Sections: All specification Sections itemized are to be provided complete by this Prime Contract, unless noted otherwise, as follows:
 - 1. Divisions 00 & 01 – All Sections
 - 2. Divisions 02 through 14 – Coordination related to this Prime Contract
 - 3. Division 22 - All Sections
 - 4. Divisions 23-34 – Coordination related to this Prime Contract
- C. Project Site Superintendent: Prime Contractor shall provide a full time Project Site Superintendent while any Work related to this Contract is being performed, including the activities of their subcontractors, while other Prime Contractors are installing Work, or require the coordination of Work related to this Contract, and/or as requested by the Construction Site Representative(s).
 - 1. Superintendent may be a Working individual provided that the daily requirements of the Contract are maintained, as they relate to the Construction Documents and the Project Schedule. The Construction Site Representative(s) reserves the right to revoke this privilege if in their opinion these requirements are not maintained.
 - 2. Superintendent shall participate in weekly meetings to schedule and coordinate the Work, in a manner that best promotes the Master Construction Schedule and the objectives of the Project.
 - 3. Superintendent shall be able to make binding decisions on behalf of the Prime Contractor, as they relate to the daily activities of their crew, adjustments in Work scope, and achieving the goals of the Project.
 - 4. Prime Contractor shall submit the resume of proposed Superintendent for approval by the Owner and CSArch prior to commencement of the Contract.
 - a. Project Site Superintendent shall be an individual with minimum of two (2) years' experience in this field of Work.
 - b. Superintendent shall have a minimum of one (1) years' experience working for the Prime Contractor and be the same individual throughout the duration of the Project.
 - c. Refer to Division 01 Section "Project Management and Coordination" for further requirements.

- D. Scope of Work: The Work of this Prime Contract includes but is not limited to, the following:
1. Work delineation between building and site(s) is at five feet (5'0") outside of the face of building, existing and new, unless noted or assigned otherwise.
 - a. The "building" includes the entire footprint of the newly constructed Maintenance Building plus the area five feet (5') outside that footprint.
 - b. The "site" includes the entire construction area of the new developed property excluding the entire footprint of the newly constructed Maintenance Building plus the area five feet (5') outside that footprint.
 - c. The PC is responsible for Work for the "building" and any installations of underground utilities on the "site" related to the work of this Prime Contract.
 2. Environmental Protection: Provide protection and conduct construction in ways and by methods that comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
 - a. Restrict use of noisemaking tools and equipment to hours that will minimize complaints from persons or firms on or near the Project site(s).
 - b. Refer to Division 01 Section "Work Restrictions" for additional information.
 3. The Plumbing Drawings are schematic in nature, and the PC will make adequate provisions to accommodate the actual field conditions without additional cost to the Owner.
 - a. PC shall furnish all related electrical disconnects, variable speed drives and motor starters (including related "heaters, fuses, and phase protection relays") for all equipment provided under this Contract, for coordinated installation by EC.
 4. Provide valves, whether permanent or temporary, to permit shutoff and/or capping of systems to achieve the Work of this Prime Contract.
 5. Provide all typical building equipment including but not limited to, plumbing equipment and fixtures, supply, waste, drain and vent piping, as indicated in the Construction Documents.
 6. GC shall provide concrete housekeeping and structural pads for equipment provided under this Prime Contract. PC shall coordinate size, orientation and location with GC, by way of providing physical layout, and verification prior to construction thereof.

7. GC shall provide all Work associated with creating structural openings or penetrations requiring lintels whether for their own Work or Work of the MC, EC or PC (i.e.: ductwork and pipe penetrations). This applies to all openings/penetrations greater than 8" through masonry or concrete walls.
 - a. MC, EC & PC shall indicate all required openings/penetrations requiring lintels on Coordination Drawings. Failure to note required openings/penetrations on the coordination drawings for the GC will require that the respective MC, EC & PC provide their own structural openings in accordance with the contract documents at no additional cost.
 - b. Non-structural openings/penetrations, including those for convenience, shall be self-provided by the respective GC, MC, EC or PC. This assignment applies to new and existing construction areas.
 - c. Refer to Structural documents for lintel type/size requirements and Architectural drawings for wall types. Walls not specifically identified in the documents are to be assumed as masonry construction.
 - d. All openings/penetrations are to be identified on Record Drawings by the Prime Contract requiring the opening.
8. GC shall provide all cut & patch Work related to that of their Prime Contract, and at those areas specifically identified on the Construction Documents, regardless of trade creating the area to be patched.
 - a. Each Prime Contract is responsible for all other respective Cutting & Patching required of their installations (refer to Section 017310 for further information).
9. Final connections of utilities are by MC, EC & PC, unless noted or assigned otherwise.
10. Furnish and install below-grade water and gas distribution and equipment.
11. PC shall hang streamers from all above ceiling equipment that will require access. This is in addition to any specification requirements for tags, labels, etc. Coordination Drawings shall highlight these areas for Architect and Engineer's review.
12. Provide all access panels to access inaccessible installations (i.e. valves) provided by this Prime Contract, such as above hard ceilings or in walls. Access panel type shall be same as GC approved submittal and in sizes adequate for easy access and or replacement of installation.
13. Provide sleeves required for piping penetrating walls, slabs and/or decks for Work of this Prime Contract.
14. Provide through-penetration fire stop systems at all penetrations made by PC for utility penetration of this Prime Contract, maintaining listed ratings of indicated

assemblies. Provide repair of existing through-penetration fire stopping damaged by Work of this Prime Contract.

- a. Sleeves with fire stopping are to be installed in sequence with fire-rated construction. This Prime Contract shall be responsible for installing fire stopping material at intersection of sleeve and constructed materials.
- 15. Provide coordination with, and notification to, Construction Site Representative(s) for all specified testing, training, commissioning, etc., of the Work of this Prime Contract.
- 16. Substantial Completion: Clean all plumbing installations and provided equipment at the time of Substantial Completion or as directed by Construction Site Representative(s).
- E. Supplemental Temporary Facilities and Controls by PC include, but are not limited to, the following:
 - 1. Waste Disposal Facilities:
 - a. General debris/refuse/construction waste containers (dumpsters) shall be provided by GC, for use by PC.
 - b. It shall be the responsibility of this Prime Contract to recycle metals generated by its Work, and the Work of its subcontracts.
 - 1) Joint effort recycling by all Prime Contracts is encouraged.
 - 2. Indoor air quality management at all areas of Work by this Contract, once building is enclosed.
 - a. Provide all necessary dust partitions, fans, temporary ducts, and barricades to properly contain and ventilate all Work area fumes and odors, created by demolition and new construction or alterations, directly to the outside. Ventilate to an area outside the building, sufficiently away from the building, as not to contaminate other areas. There will be no additional claims honored if the Construction Site Representative(s) requests additional ventilation or requirements.
 - b. Provide and exhaust air system for the project indoor areas that could produce fumes, VOC's, off gasses, dusts, mists, or other emissions.
 - c. System Operation:
 - 1) Provide temporary dust/fume protection at areas of Work of this Contract to limit contamination of surrounding areas. All cost incurred, by the Owner, for added cleaning expenses, due to the

- failure of this contract to provide and maintain adequate dust/fume protection, for the Work of this Contract, shall be borne by this Contract.
- 2) A sufficient quantity of exhaust fans in existing window openings or other approved locations shall be operated.
 - 3) Exhaust air system shall operate for a minimum of 72 hours after Work is completed or until all materials have cured sufficiently so as to stop out – gassing of fumes or odors and area has been ventilated to remove all detectable traces of odors and fumes.
 - 4) Maintain 25 feet clearance from all temporary exhaust outlets to all active building outdoor air intakes.
 - 5) Refer to section “Work Restrictions” for further information.
3. Provide all shoring required for Work of this Contract, including but not limited to;
 - a. Cutting or altering of existing construction.
 - b. Provide protection of all new and existing surfaces during the Work. Do not stand, walk, or Work from any unprotected finished surface above the floor.
 4. Water: Provide temporary cold water service, for use by all Prime Contracts for construction purposes. PC shall procure all related permits, coordinate with utility provider, and meet the requirements of the authorities having jurisdiction, in establishing, maintaining, and removing this temporary service.

1.10 ELECTRICAL CONSTRUCTION (EC) – CONTRACT NO. 04

- A. Applicable Drawings: All drawings itemized are to be provided complete by this Prime Contract, unless noted otherwise, as follows:
 - 1. General (G-Series)
 - 2. Electrical General (EG-Series)
 - 3. Electrical Site (ES-Series)
 - 4. Electrical (E-Series)
- B. Applicable Specification Sections: All specification Sections itemized are to be provided complete by this Prime Contract, unless noted otherwise, as follows:
 - 1. Divisions 00 & 01 – All Sections
 - 2. Divisions 02-23 – Coordination related to this Prime Contract
 - 3. Divisions 26-28 - All Sections
 - 4. Divisions 30-34 – Coordination related to this Prime Contract
- C. Project Site Superintendent: Prime Contractor shall provide a full time Project Site Superintendent while any Work related to this Contract is being performed, including the activities of their subcontractors, while other Prime Contractors are installing Work, or require the coordination of Work related to this Contract, and/or as requested by the Construction Site Representative(s).
 - 1. Superintendent may be a Working individual provided that the daily requirements of the Contract are maintained, as they relate to the Construction Documents and the Project Schedule. The Construction Site Representative(s) reserves the right to revoke this privilege if in their opinion these requirements are not maintained.
 - 2. Superintendent shall participate in weekly meetings to schedule and coordinate the Work, in a manner that best promotes the Master Construction Schedule and the objectives of the Project.
 - 3. Superintendent shall be able to make binding decisions on behalf of the Prime Contractor, as they relate to the daily activities of their crew, adjustments in Work scope, and achieving the goals of the Project.
 - 4. Prime Contractor shall submit the resume of proposed Superintendent for approval by the Owner and CSArch prior to commencement of the Contract.
 - a. Project Site Superintendent shall be an individual with minimum of two (2) years' experience in this field of Work.
 - b. Superintendent shall have a minimum of one (1) years' experience working for the Prime Contractor and be the same individual throughout the duration of the Project.

- c. Refer to Division 01 Section "Project Management and Coordination" for further requirements.
- D. Scope of Work: The Work of this Prime Contract includes but is not limited to, the following:
- 1. Work delineation between building and site(s) is at five feet (5'0") outside of the face of building, existing and new, unless noted or assigned otherwise.
 - a. The "building" includes the entire footprint of the newly constructed Maintenance Building plus the area five feet (5') outside that footprint.
 - b. The "site" includes the entire construction area of the new developed property excluding the entire footprint of the newly constructed Maintenance Building plus the area five feet (5') outside that footprint.
 - c. The EC is responsible for Work for the "building" and any installations of underground utilities on the "site" related to the work of this Prime Contract.
 - 2. The Electrical drawings are schematic in nature and the EC will make adequate provisions to accommodate the actual conditions without additional cost to the Owner.
 - a. EC shall install Work in accordance with the National Electrical Code requirements. No additional compensation will be made for extra offsets in conduit or retro-fit Work due to improper component location, or lack of Prime Contractor's coordination.
 - 3. Provide routing of power distribution as indicated in the Construction Documents, specifically to allow for progression of the Work sequence.
 - 4. Provide all lighting, including fixtures, switching devices, circuits, etc.
 - a. Provide new fixtures as scheduled.
 - b. Contractor shall be responsible to tie-up and support fixtures and ceiling-mounted electrical devices to structure above Acoustic Panel Ceiling systems.
 - 5. GC shall provide all Work associated with creating structural openings or penetrations requiring lintels whether for their own Work or Work of the MC, EC or PC (ie: ductwork and pipe penetrations). This applies to all openings/penetrations greater than 8" through masonry or concrete walls.
 - a. MC, EC & PC shall indicate all required openings/penetrations requiring lintels on Coordination Drawings. Failure to note required

- openings/penetrations on the coordination drawings for the GC will require that the respective MC, EC & PC provide their own structural openings in accordance with the contract documents at no additional cost to the Owner.
- b. Non-structural openings/penetrations, including those for convenience, shall be self-provided by the respective GC, MC, EC or PC. This assignment applies to new and existing construction areas.
 - c. Refer to Structural documents for lintel type/size requirements and Architectural drawings for wall types. Walls not specifically identified in the documents are to be assumed as masonry construction.
 - d. All openings/penetrations are to be identified on Record Drawings by the Prime Contract requiring the opening.
6. GC shall provide all cut & patch Work, related to that of their Prime Contract, and at those areas specifically identified on the Construction Documents, regardless of trade creating the area to be patched.
- a. Each Prime Contract is responsible for all other respective Cutting & Patching required of their installations (refer to Section 017310 for further information).
7. GC shall provide concrete housekeeping and structural pads for equipment provided under this Prime Contract. EC shall coordinate size, orientation and location with GC, by way of providing physical layout, and verification prior to construction thereof.
8. Provide complete electrical requirements, materials, and methods including but not limited to:
- a. Service and distribution including bus-way, switchgear, panel boards, and disconnect switches.
 - b. Provide grounding protection for all circuits and outlets and as required by applicable codes and authorities having jurisdiction. Properly ground building equipment provided by this project.
 - c. Coordinate any electrical switchover as to least impact the Project Schedule, and/or as indicated in the Construction Documents.
 - d. Immediately after installation, provide and maintain temporary ID of all circuit breakers and at all shut offs/disconnects until permanent ID is in place.
 - e. Interior and exterior lighting and lighting control equipment; provide occupancy sensors and photo sensors as indicated.
 - f. Provide raceways, boxes, cabinets, and sleeves through existing and new construction. Provide wire, cable, conduit, boxes, and wiring devices.
 - g. Provide permanent electrical identification.

- 1) Provide type written panel board schedules.
 - 2) Clearly label all panel boards, disconnects, relays, junction boxes, and other electrical devices and equipment.
9. Final connections of utilities are by MC, EC & PC, unless noted or assigned otherwise.
10. Furnish and install below-grade electrical distribution and pole bases.
 - a. MC and PC shall furnish all disconnects, variable speed drives and motor starters (including related "heaters, fuses, and phase protection relays"), for all equipment provided under their respective Prime Contract, for coordinated installation by EC.
 - b. Provide all line voltage circuits and connections to equipment provided by MC and PC.
 - c. Provide final connections to equipment furnished by the Owner. Coordinate power and connection requirements with Owner.
11. Provide Fire Alarm system as indicated in the Construction Documents.
 - a. EC shall integrate Fire Alarm system with all HVAC equipment, natural gas shut-downs, Fire Protection systems, AED cabinets, coiling overhead doors, fire shutters, pedestrian doors equipped with electro-magnetic hold-open devices, etc. as required.
12. Provide streamers hung from all above-ceiling equipment that will require access. This is in addition to any specification requirements for tags, labels, etc. Coordination Drawings shall highlight these areas for Architect and Engineer's review.
13. Provide access panels to access inaccessible installations (i.e. junction boxes) provided by this Prime Contract, such as above hard ceilings or in walls. Access panel type shall be same as GC approved submittal, and in sizes adequate for easy access and or replacement of installation.
14. Provide sleeves required for conduits and raceways penetrating walls, slabs and/or decks for Work of this Prime Contract.
15. Provide through-penetration fire stop systems at all penetrations made by EC and at all other penetrations installed by GC for utility penetration of this Prime Contract, maintaining listed ratings of indicated assemblies. Provide repair of existing through-penetration fire stopping damaged by Work of this Prime Contract.

- a. Sleeves with fire stopping are to be installed in sequence with fire-rated construction. This Prime Contract shall be responsible for installing fire stopping material at intersection of sleeve and constructed materials.
- 16. Provide all testing and adjusting, instruction and guarantees for materials and equipment of this Prime Contract.
 - a. Substantial Completion: Clean all light fixtures and electrical equipment at the time of installation or at Substantial Completion, whichever is later, or as directed by Construction Site Representative(s).
- 17. Provide primary/secondary electrical service installations, including associated installation of pad-mounted transformers (by utility provider), switch gear, distribution equipment, conduits, conductors, grounding requirements, etc.
 - a. GC shall provide installation of new electrical transformer pad, and associated protective bollards as indicated. Coordinate transformer pad requirements, and installation sequencing with GC.
 - b. EC shall obtain, and the Owner shall pay for, all permits required by NYS, DOT, town/village of Liberty and/or Sullivan County, and related utility provider, required to perform the Work of this Prime Contract. This includes but is not limited to, permits for temporary electrical service for construction, permanent electrical service, relocation/installation of traffic control lighting, etc.
- 18. Provide clock, telephone, access control, security, PA/intercom, data, Audio-Visual and CCTV systems, as indicated in the Construction Documents.
 - a. Provide all system infrastructure including conduit, back boxes, and wiring as required.
 - b. Provide all associated power circuits and requirements that support these systems, including but not limited to, final connections to actuated door hardware, provided by GC.
 - 1) All internal line voltage and low voltage wiring/final connections of control systems at door openings shall be provided by EC. Coordinate with GC installation of doors, frames, and hardware.
- E. Supplemental Temporary Facilities and Controls by EC include, but are not limited to, the following:
 - 1. Waste Disposal Facilities:

- a. General debris/refuse/construction waste containers (dumpsters) shall be provided by GC, for use by EC.
 - b. It shall be the responsibility of this Prime Contract to recycle metals generated by its Work, and the Work of its subcontracts.
 - 1) Joint effort recycling by all Prime Contracts is encouraged.
2. Temporary Power:
- a. EC shall provide temporary single-phase power sources for use during construction by all Prime Contracts.
 - a) Exception to this requirement is during the Demolition and Abatement Work of this Project, the Demolition and Abatement subcontractor will provide their own temporary power panel(s) and conductors from existing building services, in accordance with NYSDOL Industrial Code Rule 56 and NEC.
 - 1) Provide and maintain temporary weatherproof electric service consisting of main power hook –up, panel board(s) and temporary power and lighting for all Prime Contracts during construction.
 - 2) Temporary electric service shall be maintained during all workdays and shall comply with all applicable codes and regulations.
 - 3) Whenever permanent building power is not available, provide temporary 4-gang outlets at each work area, spaced no greater than 50 feet in any direction. Provide separate 115v, 20-amp circuit for each 4-gang outlet (4 outlets per circuit).
 - 4) System shall be modified as required or as directed by the Construction Site Representative as the Work progresses.
 - 5) Provide temporary power facilities during any and all power interruptions, coordinate power requirements with each Prime Contractor well in advance of each interruption. Coordinate requirements during processes such as power switchover as not to interrupt work, or the schedule of others.
 - 6) Site Lighting:
 - a) Provide temporary site lighting (including any pole requirements) of Staging/Lay-down areas and building entrances under construction, energized daily at sundown until 7:00 A.M. via photo-electronic/timing devices; refer to Site Logistics Plans for locations, or implement as directed by the Architect or Construction Site Representative.

- b. Project Site Field Offices: Provide all requirements for temporary power and connections to all Field Offices of Prime Contractors and Architect, or those otherwise indicated on Site Logistics plans.
 - 1) For each Field Office, provide minimum 60A, single-phase service, including all necessary metering and distribution equipment, required supports, and any other components required by the power utility supplier, or as otherwise indicated in the Construction Documents.
 - 2) Power to Field Office facilities shall be provided immediately upon their arrival to the site; EC shall coordinate appropriately as not to delay connections.
 - 3) EC shall disconnect and remove these utility services upon demobilization of Field Offices.
- 3. Indoor air quality management at all areas of Work by this Prime Contract, once building is enclosed.
 - a. Provide all necessary dust partitions, fans, temporary ducts, and barricades to properly contain and ventilate all Work area fumes and odors, created by demolition and new construction or alterations, directly to the outside. Ventilate to an area outside the building, sufficiently away from the building, as not to contaminate other areas. There will be no additional claims honored if the Construction Site Representative(s) requests additional ventilation or requirements.
 - b. Provide and exhaust air system for the project indoor areas that could produce fumes, VOC's, off gasses, dusts, mists, or other emissions.
 - c. System Operation:
 - 1) Provide temporary dust/fume protection at areas of Work of this Contract to limit contamination of surrounding areas. All cost incurred, by the Owner, for added cleaning expenses, due to the failure of this contract to provide and maintain adequate dust/fume protection, for the Work of this Contract, shall be borne by this Contract.
 - 2) A sufficient quantity of exhaust fans in existing window openings or other approved locations shall be operated.
 - 3) Exhaust air system shall operate for a minimum of 72 hours after Work is completed or until all materials have cured sufficiently so as to stop out – gassing of fumes or odors and area has been ventilated to remove all detectable traces of odors and fumes.
 - 4) Maintain 25 feet clearance from all temporary exhaust outlets to all active building outdoor air intakes.

4. Provide protection of all new surfaces during the Work.
5. Provide shoring required for Work of this Contract, including but not limited to;
 - a. Cutting or altering of existing construction.
 - b. Provide protection of all new and existing surfaces during the Work. Do not stand, walk, or Work from any unprotected finished surface above the floor.

END OF SECTION 011200

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