



ADDENDUM NO. 5 TO PROJECT NO. 45011

**CONSTRUCTION WORK, HVAC WORK, PLUMBING WORK, ELECTRIC WORK
PROVIDE COMBINED SUPPORT MAINTENANCE SHOP
CAMP SMITH
11 BEAR MOUNTAIN BRIDGE ROAD
CORTLANDT, MANOR, NY 10567**

August 10, 2015

NOTE: This Addendum forms a part of the Contract Documents. Insert it in the Project Manual. Acknowledge receipt of this Addendum in the space provided on the Bid Form.

SPECIFICATION GROUP

GENERAL REQUIREMENTS SUBGROUP (Common Document)

1. Section 015000 Construction Facilities & Temporary Controls
 - a. Discard the section bound in the Project Manual and substitute the accompanying Section (pages 015000-1 thru 015000-10) noted "Revised 8/10/2015".

CONSTRUCTION WORK

1. Section 075323 Adhered EPDM Roofing System – section added by Addendum 2 noted Revised 8/3/2015
 - a. Delete paragraph 3.05, B.
 - b. Renumber 3.05, C., D to 3.05, B, and C.
2. Section 075323 Adhered EPDM Roofing System
 - a. 2.02 Insulation, A. Change to read; "The total insulation thermal resistance is indicated on drawings."

CONSTRUCTION WORK DRAWINGS

1. Drawing No. A-102:
 - a. Add Note to Supply Room #144: Owner to furnish recessed rails, Contractor to install. Contractor to coordinate concrete slab recess requirements with Director's Representative.
2. Drawing No. A-802:
 - a. Add General Note #3: Items 4-20 thru 4-24 are Owner provided equipment to be installed by Owner.

END OF ADDENDUM

Margaret F. Larkin
Executive Director
Design and Construction

SECTION 015000**CONSTRUCTION FACILITIES & TEMPORARY CONTROLS****PART 1 GENERAL****1.01 DESCRIPTION**

- A. Provide construction facilities and temporary controls necessary for the Work, unless otherwise indicated.
 - 1. The construction facilities and temporary controls specified to be provided by a particular Contract shall be kept operational by that Contractor for the Work of all related Contracts at all times Work is being performed by a Contractor.
 - 2. The construction facilities and temporary controls specified to be provided by a particular Contractor shall be installed as soon after award of the Contract as necessary to enable the Work of each Contract to proceed on schedule, and maintained until completion of the Work of all related Contracts unless otherwise directed in writing.
 - 3. Any Contractor who requires additions to the construction facilities and temporary controls specified to be provided by another Contractor, shall provide and maintain them.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Construction Heat and Temporary Heat: Section 015123.
- B. Construction Waste Management: Section 017419.
- C. Construction Indoor Air Quality Management: Section 018119.

1.03 TEMPORARY LIGHT AND POWER

- A. Electrical energy for temporary light and power will be made available without charge.
- B. Extent of Temporary Wiring: Contractors may ascertain the extent of the temporary wiring provided under the Electrical Work Contract by examining the Electrical Drawings. Wiring for Contractors' trailers is not included.
- C. Electrical Work Contract:
 - 1. Make necessary arrangements, through the Director's Representative, for temporary electrical service at location indicated.
 - 2. Provide portable source of electricity for temporary light and power of adequate capacity to supply the needs of all contractors for the performance of their Work until the temporary electrical service can be utilized for temporary light and power.

3. Provide a pole line for temporary light and power. Install minimum Class 4 poles of height required to maintain at least 25 feet ground clearance under wires. Space wires on cross arms to suit voltage.
 4. Provide wiring and other equipment within the building for temporary light and power.
 - a. Wiring for temporary light and single phase power shall, in general, consist of 3 wire, 120/240 volt or 4 wire, 120/208 volt feeders, with branch circuits of #12 conductors minimum.
 - 1) Install branch circuits with suitable fluorescent fixtures or incandescent lampholders for temporary lighting as required to maintain a minimum of 10 foot candles in the work areas. Equip fixtures and lampholders with guards. Fixtures and lampholders installed in damp or wet locations shall be of the weatherproof type.
 - 2) Install branch circuits with fused grounding type receptacle outlets for single phase power (for power tools, etc.).
 - b. Install 2 circuits with fluorescent fixtures or incandescent lampholders in corridors and stairs. Space fixtures or lampholders no more than 30 feet apart in corridors. Install fixture or lampholder at each stair landing. Also install one fixture or lampholder in each boiler room and mechanical equipment room (connect to the corridor and stair lighting circuits).
 - 1) Keep the corridor and stair lighting maintained and energized 24 hours per day, 7 days per week.
 - c. Install wiring for 3 phase power for machines and other heavy electrical loads consisting of 3 phase, 3 wire, 120/208 volt feeder with fused disconnect switches as indicated. A maximum motor load of 5 hp at 208 volts will be permitted on each feeder.
 6. Provide site lighting for security purposes.
 - a. Keep the site lighting maintained and energized from dusk to dawn, 7 days per week.
 7. Provide a fused sealed service entrance switch for corridor and stair lighting circuits and site lighting circuits. Locate switch adjacent to, and connect to line side of temporary light and power service entrance switch. Stencil cover "CORRIDOR AND STAIR LIGHTING & SITE LIGHTING".
 8. Provide lamps and fuses including replacements required.
- D. All Contracts:
1. Any Contractor requiring additional lighting shall provide additional fluorescent fixtures or incandescent lampholders (with lamps), but in no case shall the load on any branch circuit or feeder exceed its rated capacity.
 2. Install materials for temporary light and power in conformance with the National Electrical Code.
 3. Materials for temporary light and power need not be new if they are in satisfactory operating condition.

- 4. Provide ground-fault protection for personnel (such as portable plug-in type ground-fault circuit-interrupters) on single phase 15 and 20 ampere receptacle outlets which are in use.
 - 5. Receptacle outlets, portable cord connectors and attachment plugs shall have standard NEMA configurations.
 - 6. As the progress of the Work allows, and as approved, completed portions of the permanent wiring and electrical service may be utilized for temporary light and power.
- E. All Contracts:
- 1. Provide temporary wiring and equipment in conformance with the National Electrical Code.

1.04 TEMPORARY WATER

- A. Water will be made available for the Work without charge at source or sources directed within the limits of the existing supply and usage.
- B. Plumbing Work Contract:
 - 1. Provide and maintain a temporary water system, of such size and capacity as to adequately supply the needs of all contractors during performance of their Work.
 - 2. The permanent water lines may be used for temporary water service if potable water is carried in the lines.
 - 3. Hose Connections: Provide and maintain 3/4 inch hose connections and barrels with wastes at two locations equally separated on the site.
 - 4. At each hose connection, provide and maintain a water-tight barrel or tank complete with overflow piping and waste piping to an approved point of discharge, and a metal drip pan under the barrel or tank so as to prevent water overflowing or spilling on floor.
 - 5. Protect temporary lines against freezing.
 - 6. Repair damages caused by installation of leaky, defective or broken piping, connections or other fittings.
- C. All Contracts: Prevent waste of water.

1.05 TEMPORARY TOILETS

- A. Construction Work Contract: Provide toilet facilities for Contractor’s and subcontractors employees engaged on the Project, including employees of other contractors. Locate toilets where directed and maintain them in a sanitary condition.

NUMBER OF EMPLOYEES	MINIMUM NUMBER OF FACILITIES*
20 or less	1 toilet
20 or more	1 toilet and 1 urinal per 40 employees
200 or more	1 toilet and 1 urinal per 50 employees

*Toilet/Urinal Combinations shall count as only one facility.

1. Provide water closets where water and sewer connections are available, otherwise, provide approved chemical or electric toilets.
2. Inside buildings, locate toilet facilities no more than 4 stories or 60 feet above or below, nor more than 500 feet travel on the same level from the work location of any person.
3. Locate toilet facilities no more than 1000 feet from any work location.
 - a. Exception: Mobile crews having readily available transportation to nearby toilet facilities.

1.07 MATERIAL HOISTS

- A. Construction Work Contract:
 1. Provide, maintain, and operate 1 material hoists for the use of all contractors.
 2. Material hoists shall be of adequate capacity for the loads to be carried and shall have all required safeguards. Hoist cars shall be of required size and design for the hoisting of all normal size building materials, including piping, and shall be complete with all equipment necessary for operation.
 3. Install the material hoists on the exterior of the building at locations directed. Install them immediately following erection of the structural framing or form work and extend them upward, closely following the construction unless otherwise approved by the Director's Representative.
- B. All Contracts: Except as otherwise arranged by mutual agreement or directed, the use of hoists provided by the Construction Work Contractor will be allocated on the basis of 75 percent of the working time for the Construction Work Contract and 25 percent for all other contracts, however, the Construction Work Contractor shall have the use of the hoists at all times when not required by other Contractors.

1.09 TEMPORARY CLOSURES FOR EXTERIOR WALL OPENINGS

- A. Construction Work Contract:
 1. Whenever necessary, after the building is enclosed, to maintain proper temperatures for the performance of the Work, provide and maintain temporary closures for all openings in exterior walls that are not closed with permanent materials.
 2. During the period when plastering is being done and continuing thereafter until the plaster is properly cured, provide exterior window and door openings with temporary closures, regardless of the time of year.
 3. Construct temporary closures of 2 x 4 framing sheathed with plywood, waferboard, or 6 mil polyethylene attached to wood frames, as approved and to suit job requirements.
 4. Provide closures so that they will afford convenient means of entrance and exit for persons having business within the building, afford ample light to permit continued progress of the Work, and exclude inclement weather.

1.10 PROTECTION OF WORK AND EXISTING PROPERTY

- A. Protect installed Work and existing property during performance of the Work.
- B. Maintain the building in a watertight condition during performance of the Work.
- C. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent damage.
- D. Provide protective coverings at wall projections, jambs, sills, and soffits of openings.
- E. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, damage, and movement of heavy objects by covering them with durable sheet materials.
- F. Protect smoke detectors from airborne dust and debris.
 - 1. At the beginning of each work day, provide protective coverings over smoke detectors in areas where airborne dust and debris will be generated by the Work.
 - 2. At the end of the work day, clean the areas in which the smoke detectors are located by whatever means necessary to assure that airborne dust and debris will not contaminate the smoke detectors, then remove protective coverings.
 - 3. Provide signs, instructions and alternate methods for reporting a fire during the periods that the smoke detectors are covered.
 - 4. Notify the Director's Representative and have procedures approved.
- G. Prohibit traffic or storage upon waterproofed and roofed surfaces. If traffic or activity is necessary, obtain recommendations for protection from waterproofing or roofing material manufacturer.
- H. Protect existing trees and plants during performance of the Work unless otherwise indicated. Box trees and plants within the grading limit lines. Do not deposit excavated materials or store building materials around trees or plants. Do not attach guy wires to trees.
- I. Prohibit traffic from landscaped areas.
- J. Cleaning tools of cementitious and other insoluble materials:
 - 1. Do not wash tools in sinks or other sanitary drainage systems. Protect all drainage systems from debris that can clog or damage piping and fixtures.
 - 2. Take all precautions necessary to prevent cementitious and other insoluble materials from flowing into floor drains.
 - 3. Dispose of excess cementitious and other insoluble debris with the other rubbish.

1.11 BARRIERS AND ENCLOSURES

- A. All Contracts: Provide barriers during performance of the Work to:
 1. Prevent unauthorized entry to work areas.
 2. Allow for State's occupancy of areas adjacent to the Site.
 3. Protect existing facilities and adjacent properties from damage.
 4. Protect vehicular and pedestrian traffic.

- B. Construction Work Contract:
 1. Temporary Partitions: Provide temporary partitions to form a barrier and to prevent the spread of dust from the work areas. Construct the partitions of 2 x 4 framing sheathed with 1/2 inch thick plywood or waferboard. Secure the partitions in place without damaging existing construction. Seal joints tight. Provide doors with suitable hardware including locks. Furnish the Director's Representative with 2 keys for each lock.
 2. Temporary Dust Barriers: Provide temporary dust barriers to prevent the spread of dust from the work areas. Construct the dust barriers of wood framing sheathed with 6 mil polyethylene film. Secure the dust barriers in place without damaging existing construction.
 3. Scaffolding, Hoist, and Equipment Barriers: Provide temporary fence enclosures as required to prevent unauthorized persons from coming in contact with ground supported scaffolding, hoists, and equipment.

1.12 TEMPORARY FENCE ENCLOSURE

- A. Construction Work Contract:
 1. Provide temporary fence not less than 8 feet in height above grade.
 2. Fabric: #9 gage galvanized steel, or equal gage aluminum, woven together into 2 inch diamond mesh, with both top and bottom edges having a twisted and barbed finish.
 3. Posts, Rails, and Connections: Standard galvanized steel products of an approved manufacturer, of the size and types as required and approved. Provide top and bottom rails between all posts secured with bolted connections.
 4. Gates: Provide access gates for passage of employees and materials, complete with padlock. Fabricate gates with galvanized steel pipe perimeter covered with same fabric specified for fence. Furnish the Director's Representative with 2 keys per gate.
 5. Provide each post and gate with "V" shaped extension arms and with 3 strands per side of 4 point heavy galvanized steel barbed wire.
 6. Erection: Set posts 4 feet into the ground and not more than 10 feet apart. Install bottom rail not more than 2 inches above existing grade. Pull fabric taut and wire tightly to posts and rails at not more than 2 feet on center.
 7. Maintain the temporary fence enclosure throughout the life of the Contract, or until directed to be removed. Replace all items or portions of fence enclosure damaged or destroyed.

1.13 SECURITY

- A. Key Deposits: A \$25 deposit will be required for each key issued by the Facility. Deposits will be refunded upon return of the keys.
- B. Facility Key Regulations:
 1. Sign Facility keys out and in on a daily basis unless otherwise directed.
 2. Keep keys on person at all times while on the premises. Do not loan or give keys to other persons.
 3. Do not remove keys from the premises without written permission from the Director's Representative.
 4. Report lost, missing, or stolen keys immediately to the Facility Safety/Security Department. Assume responsibility for cost of necessary key and lock replacement as a result of lost, missing, or stolen keys.
- C. Identification Cards:
- D. Promptly relock doors and security screens located in access routes, storage areas, and work areas after use.
- E. Restore, by the end of each work day, existing in place safety/security items such as doors, screens, alarm systems components, that required removal, replacement, or adjustment to perform the Work, unless otherwise authorized in writing by the Director's Representative.

1.14 WATER CONTROLS

- A. Provide and maintain pumping equipment necessary to keep the work areas free from water. Discharge water into existing storm drainage systems or otherwise disperse as directed.

1.15 FIRE PREVENTION

- A. Take precautions necessary to prevent fires.
- B. Fuel for cutting and heating torches shall be acetylene or LP-gas only, and shall be contained in Underwriters Laboratory or Federal Department of Transportation approved containers.
- C. Furnish and maintain a currently inspected 20 pound capacity multi-class ABC fire extinguisher in the immediate vicinity where welding tools or torches are in use.
- D. Do not use flammable liquids, other than those specified, within a building without the written approval from the Director's Representative.
- E. Tarpaulins shall be flameproof and shall be securely anchored when attached to scaffolding or when used to enclose any portion of a building.

1.16 TEMPORARY FIRE STANDPIPE PROTECTION SYSTEM

- A. Plumbing Work Contract:
1. Provide temporary fire standpipe protection in accordance with NFPA-14, except as otherwise specified herein. (NOTE: The only components of the permanent fire standpipe system which may be used in the temporary fire standpipe system are pipe and fittings). Provide sufficient hose stations located so that all areas of the building are protected in accordance with NFPA-14.
 2. At ground level, provide 2-way siamese steamer connections plugged with threaded plugs. Locate the siamese connections so that each one faces a different street (where possible) and so that they are easily accessible to the fire department at all times. Mark each connection with a sign reading "STANDPIPE", placed so they are visible at all times.
 3. Carry the system up with each floor level attained and, unless otherwise directed, provide at least one hose station per floor level. At each hose station (except the top) provide a 2-1/2 inch hose valve, with a 2-1/2 x 1-1/2 inch reducer, 1-1/2 inch hose rack with 100 feet of lined fire hose, straight cast iron nozzle, and a double headed spanner wrench to fit both the 2-1/2 inch and 1-1/2 inch hose connections. Chain the spanner wrench to the valve stem. House the entire assembly in a substantially constructed hose cabinet with a hinged door plainly marked "FIRE HOSE" in 3 inch high block lettering.
 4. At the top hose station (never more than one floor level below the highest forms or staging attained), provide a gear box constructed of metal, containing sufficient 2-1/2 inch fire hose to reach all parts of the floor, a 1-1/8 inch galvanized, cast iron nozzle, spanner wrench, and hose straps.
 5. Maintain accessibility to hose stations and siamese connections at all times. Keep access free of debris, snow, materials, and other obstructions.
 6. Notify the local fire department by letter that the temporary standpipe system is a dry system, and of the locations of the siamese connections. Deliver a copy of the letter to the Director's Representative.

1.17 ACCESS ROADS

- A. Routes of ingress and egress on the premises to the location of the work areas shall be as directed.
- B. Keep designated access roads clear of dirt and debris resulting from the Work.
- C. Provide means of removing mud from vehicle wheels before entering paved roads.

1.18 TEMPORARY ROADS

- A. Construction Work Contract:
1. Provide and maintain temporary roads for the use of all persons lawfully frequenting the site.
 2. From the start of construction, provide and maintain adequate temporary roads which access all areas of the site requiring work under this and all

- related contracts. Provide a temporary road section sufficient to carry the heaviest construction traffic wheel loads resulting from this and all related contracts. Also provide an access spur from the nearest temporary road to the State Field Office parking lot.
3. Crown or slope the surface of temporary roads for adequate drainage. Provide temporary drainage, including swales, ditches, culverts and pumps as required, to maintain the temporary roads and prevent ponding water on the roads or on the site.
 4. Permanent roads are not designed or intended for construction equipment use. Continually maintain temporary roads for construction traffic use until no longer needed. Maintenance shall include, but not be limited to, grading and compacting to remove ruts and depressions, removal of snow and ice, and measures to control dust.
 5. Prior to placing the permanent asphalt concrete and/or Portland cement concrete paving required by this Contract, provide uncontaminated specified materials necessary to meet full sections and grades.

1.19 PARKING

- A. All Contracts:
 1. Park vehicles in areas where directed.
 2. Keep designated parking areas clear of dirt and debris resulting from the Work.
 3. If requested, register vehicles which are to be parked at the Facility with the Facility Safety/Security Department.
 4. Remove ignition key from unattended vehicles and lock doors.
- B. Construction Work Contract:
 1. Remove snow from parking areas allocated to all Contractors.
 2. Provide a temporary parking lot, approximately 35 x 40 feet, adjacent to the State Field Office for the exclusive use of State personnel. Surface the area with a minimum of 6 inches of compacted Select Granular Material or Subbase Course Type 2. Crown or slope surface to provide adequate drainage.

1.20 RUBBISH REMOVAL

- A. All Contracts: Clean up and containerize the rubbish (refuse, debris, waste materials, and removed materials and equipment) resulting from the Work at least once a day and more often if the rubbish interferes with the work of others or presents a hazard. Leave work areas broom clean, except where more stringent cleaning is specified, at the end of each day. Locate containerized rubbish on the Site where directed.
 1. Burning of rubbish will not be permitted.
 2. Also comply with the requirements of Section 017419.
- B. Construction Work Contract: Remove rubbish from State property at least once a week and more often if the rubbish presents a hazard. Properly dispose of rubbish.

1.22 RELOCATION AND REMOVALS

- A. Should a change in location of any construction facilities and temporary controls be necessary in order to progress the Work properly, remove and relocate such items as directed.
 - 1. Electrical Work Contract: Frequently relocate/revise the temporary lighting as Contractors progress the Work of their contracts causing changes to the condition of the building (installation or relocation of walls, partitions, ceilings, equipment, etc.). Keep pace with the changes and maintain a minimum of 10 foot candles in each recomposed work area.
- B. Remove the construction facilities and temporary controls when they are no longer required. Restore permanent facilities used for or connected to temporary facilities to their original condition or better.

PART 2 PRODUCTS (Not Used)**PART 3 EXECUTION (Not Used)****END OF SECTION**