ADDENDUM NO. 2 TO PROJECT NO. Q1711

CONSTRUCTION WORK
REPLACE ROOF, ADMINISTRATION BUILDING
STATE ARMORY
93-05 168TH STREET
JAMAICA, NY

February 2, 2018

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

1. SECTION 014339 MOCKUP REQUIREMENTS: Discard the Section bound in the Project Manual and substitute the accompanying Section (pages 014339-1 thru 014339-2) noted “ADDENDUM #2_01/31/18”.

2. Page 075323 – 1, Article 1.01, Add the Following Paragraph:
   “D.    Mockup Requirements: Section 014339.”

3. Page 076000 – 1, Article 1.01, Add the Following Paragraph:
   “C.    Mockup Requirements: Section 014339.”

4. SECTION 099103 MECHANICAL PAINTING: Add the accompanying section (pages 099103-1 through 099103-11) noted “ADDENDUM #2_01/31/18” to the Project Manual.

5. SECTION 233723 ROOF MOUNTED INLETS AND OUTLETS: Discard this section from the Project Manual.

DRAWINGS

6. Addendum Drawings:
   a) Drawing A-304 noted “ADDENDUM 2 - 1/31/18” accompanies this addendum and forms part of the Construction Documents.

7. Revised Drawings:

END OF ADDENDUM

Margaret F. Larkin
Executive Director
Design and Construction
SECTION 014339

MOCKUP REQUIREMENTS

PART 1 GENERAL

1.01 RELATED WORK SPECIFIED ELSEWHERE

A. Adhered EPDM Roofing System: Section 075323

B. Flashing and Trim: Section 076000

1.02 SUBMITTALS

A. Quality Control Submittals
   1. Mockup Plan: Copy of proposed plan.

1.03 DEFINITIONS

A. Mockups (General): Full-size physical assemblies that are constructed on-site. Mockups are constructed to verify selections made under sample submittals; to demonstrate aesthetic effects and, where indicated, qualities of materials and execution; to review coordination, testing, or operation; to show interface between dissimilar materials; and to demonstrate compliance with specified installation tolerances.
   1. Mockups are not Samples.
   2. Unless otherwise indicated, approved mockups establish the standard by which the Work will be judged.

C. Integrated Exterior Mockups: Mockups of the exterior envelope erected separately from the building but on Project site, consisting of multiple products, assemblies, and subassemblies.

1.04 QUALITY ASSURANCE

A. Mockup Plan: Detailed, dimensioned plans and elevations showing mockup size, and items and materials that will be included in proposed mockup.

B. Pre-Construction Conference: Prior to the construction of the mockup, a conference will be called by the Director’s Representative at the Site for the purpose of reviewing the requirements, and intent of mockup. The conference shall be attended by the Director’s Representative, Contractor, the authorized roofing applicator, Company Field Advisor and person supervising this phase of the Work.

PART 2 PRODUCTS (Not Used)
PART 3 EXECUTION

3.01 INSTALLATION

A. Before installing portions of the Work requiring mockups, build mockups for each form of construction and finish as directed.
   1. Build mockups in location and of size and profile indicated or, or as directed by the Director’s Representative.
   2. Notify the Director’s Representative a minimum of 5 days in advance of dates and times when mockups will be constructed and able to be inspected.
   3. Employ supervisory personnel to oversee mockup construction. Employ same workers that will be employed during the construction of Project.
   4. Demonstrate the proposed range of aesthetic effects and workmanship.
   5. Commence the Work after mockup has been inspected and approved in writing by Director’s Representative.
   6. The mockup will establish the standard of quality of workmanship by which the Work will be judged.
   7. Maintain mockups during construction in an undisturbed condition as a standard for judging the completed Work. Failure to maintain the mockup, until directed, will be cause for rejection of the Work.
   8. Demolish and remove mockups when directed unless otherwise indicated.

B. Mockup Types: Construct mockup in accordance with approved shop drawings, project manual, and Contract Drawings, using exact materials and methods approved for the Project, including required accessories.
   1. Integrated Exterior Mockups: Coordinate installation of exterior envelope materials and products for which mockups are required in individual Specification Sections and supporting materials.
   2. Provide the following mockups:
      a. Complete roof assembly, including all roof membrane flashing and metal flashing details, included in specification sections 075323 and 076000.

END OF SECTION
SECTION 099103
MECHANICAL PAINTING

PART 1  GENERAL

1.01  DEFINITIONS

A. The word “paint” in this Section refers to substrate cleaners, fillers, sealers, primers, undercoats, enamels and other first, intermediate, last or finish coatings.

B. The word “primer” in this Section refers to substrate cleaners, fillers, sealers, undercoats, and other first or intermediate coats beneath the last or finish coating.

C. The words “finish paint” in this Section refers to the last or final coat and previous coats of the same material or product directly beneath the last or final coat.

D. Finish Paint Systems: Finish paint and primers applied over the same substrate shall be considered a paint system of products manufactured or recommended by the finish coat manufacturer.
  1. Finish paint products shall meet or exceed specified minimum physical properties.

1.02  SUBMITTALS

A. Painting Schedule: Cross-referenced Painting Schedule listing all exterior and interior substrates to be painted and specified finish paint type designation; product name and manufacturer, recommended primers and product numbers, and finish paint color designation for each substrate to be painted.
  1. Designate exterior substrates by building name and number, substrate to be painted and surface location.
  2. Designate interior substrates by building name and number, floor, room name and number, and surface to be painted.

B. Product Data Sheets: Manufacturer’s published product data sheets describing the following for each finish paint product to be applied:
  1. Percent solids by weight and volume, solvent, vehicle, weight per gallon, ASTM D 523 gloss/reflectance angle, recommended wet and dry film thickness, volatile organic compound (VOC) content in lbs/gallon, product use limitations and environmental restrictions, substrate surface preparation methods, directions and precautions for mixing and thinning, recommended application methods, square foot area coverage per gallon, storage instructions, and shelf-life expiration date.
  2. Manufacturer’s recommended primer for each finish paint product and substrate to be painted.
  3. Manufacturer’s complete range of available colors for each finish paint product to be applied.
C. Quality Control Submittals:
   1. Test Reports: Furnish certified test results from an independent testing laboratory, showing that products submitted comply with the specifications, when requested by the Director’s Representative.
   2. Certificates: Furnish certificates of compliance required under QUALITY ASSURANCE Article.

1.03 QUALITY ASSURANCE

A. Volatile Organic Compounds (VOCs) Regulatory Requirements: Chapter III of Title 6 of the official compilation of Codes, Rules and Regulations of the State of New York (Title 6 NYCRR), Part 205 Architectural Surface Coatings.
   1. Certificate of Compliance: List of each paint product to be delivered and installed. List shall include written certification stating that each paint product listed complies with the VOC regulatory requirements in effect at the time of job site delivery and installation.

B. Container Labels: Label each product container with paint manufacturer’s name, product name and number, color name and number, thinning and application instructions, date of manufacture, shelf-life expiration date, required surface preparations, recommended coverage per gallon, wet and dry film thickness, drying time, and clean up procedures.

C. Field Examples:
   1. Prior to on-site painting, at locations designated by the Director’s Representative, apply field examples of each paint type to be applied.
   2. Field examples to be applied on actual substrates to be painted and shall duplicate earlier approved paint samples.
      a. Field Example Minimum Wet and Dry Film Thickness: As indicated on approved product data sheet.
      b. Application: Apply each coat in a smooth uniform wet mil thickness without brush marks, laps, holidays, runs, stains, cloudiness, discolorations and other surface imperfections.
         1) Leave a specified exposed width of each previous coat beneath each subsequent coat of finish paint and primer.
      c. Use of Field Examples: Field examples shall serve as a quality control standard for acceptance or rejection of painting Work to be done under this Section.
   3. Field Example Sizes:
      a. Mechanical Equipment: 20 square feet with 1 foot wide strips.
      b. Linear Substrate Examples: 20 lineal feet with 12 inch long strips.
   4. Do not begin applying paints represented by field examples until examples have been reviewed and approved by the Director’s Representative.
      a. Protect and maintain approved field examples until all painting work represented by the example has been completed and approved.
D. Compatibility of Paint Materials: Primers and intermediate paints shall be products manufactured or recommended by the finish paint manufacturer.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials to the Site in original, unopened containers and cartons bearing manufacturer’s printed labels. Do not deliver products which have exceeded their shelf life, are in open or damaged containers or cartons, or are not properly labeled as specified.

B. Storage and Handling: Store products in a dry, well ventilated area in accordance with manufacturer’s published product data sheets. Storage location shall have an ambient air temperature between 45 degrees F and 90 degrees F.

1.05 PROJECT CONDITIONS

A. Environmental Requirements:
   1. Ambient Air Temperature, Relative Humidity, Ventilation, and Surface Temperature: Comply with paint manufacturer’s published product data sheet or other printed product instructions.
   2. If paint manufacturer does not provide environmental requirements, use the following:
      a. Ambient Air Temperature: Between 45 degrees F and .75 degrees F.
      b. Relative Humidity: Below 75 percent.
      c. Ventilation: Maintain the painting environment free from fumes and odors throughout the Work of this Section.
      d. Surface Temperature: At least 5 degrees F above the surface dewpoint temperature.
   3. Maintain environmental requirements throughout the drying period.

B. The following items are not to be field painted unless otherwise specified, noted or directed:
   1. Stainless steel, chrome plated or monel surfaces.
   2. Piping or ductwork to be insulated.
   3. Insulation on concealed piping and concealed ductwork.
   4. Insulated items covered with aluminum, stainless steel, or PVC jacketing.
   5. Insulation on piping in walk-in and non walk-in tunnels.
   6. Uninsulated mechanical equipment with factory applied baked on enamel finish.
   7. Mechanical equipment with enameled steel insulated jacket.
   8. Prefabricated multi-wall chimneys.

1.06 EXTRA MATERIALS

A. Provide extra finish paint materials, from the same production run as paints to be applied, in the following quantities for each color installed:
   1. Paint Types EAL and IAL: Two gallons.
   2. Color Coded Paints: One gallon, each type.
3. Other Paint Types: One gallon, each type.

PART 2 PRODUCTS

2.01 PAINT MANUFACTURERS

A. Where noted, the following finish paint manufacturers produce the paint types specified.

1. Ameron Protective Coatings, 201 Berry St., Brea, CA 92621, (800) 926-3766.
2. Armstrong World Industries, Inc., P.O. Box 3001, Lancaster, PA 17604, (800) 866-5639.
4. ICI Dulux Paints, 4000 DuPont Cr., Louisville, KY 40207, (800) 984-5444.
6. Insl-X, 50 Holt Drive, P.O. Box 694, Stony Point, NY 10980, (845) 786-5000.
7. PPG Architectural Finishes, One PPG Plaza, Pittsburgh, PA 15272, (800) 441-9695.
10. Valspar Corp., 1401 Severn St., Baltimore, MD 21230, (800) 638-7756.

2.02 MISCELLANEOUS PRODUCTS

A. Cleaning Solvents: Low toxicity with flash point in excess of 100 degrees F.

B. Color Pigments: Pure, non-fading, finely ground pigments with at least 99 percent passing a 325 mesh sieve.

1. Use lime-proof color pigments on masonry, concrete and plaster.
2. Use exterior pigments in exterior paints.

C. Galvanizing Compound, Cold: Single component compound with 93 percent pure zinc in the dried film and meeting the requirements of DOD-P-21035A (NAVY).

D. Masking Tape: Removable paper or fiber tape, self-adhesive and non-staining.

E. Metal Filler: Polyester resin base autobody filler.

F. Mineral Spirits: Low odor type recommended by finish paint manufacturer.

G. Paint Stripper: As recommended by finish paint manufacturer.
ADDENDUM #2_01/31/18

H. Stain Blocker, Primer-Sealer: As recommended by finish paint manufacturer.


2.03 FINISH PAINT TYPES

A. Physical Properties:
   1. Specified percent solids by weight and volume, pigment by weight, wet and dry film thickness per coat, and weight per gallon are minimum physical properties of acceptable materials.
      a. Opaque Pigmented Paints: Physical properties specified are for white titanium dioxide base before color pigments are added.
      b. Specified minimum wet and dry film thickness per coat are for determining acceptable finish paint products. Minimum wet and dry film thickness per coat to be applied shall comply with approved finish paint manufacturer’s product data sheets.
   2. Gloss or Reflectance: The following ASTM D 523 specified light levels and angles of reflectance:
      a. Flat: Below 15 at 85 degrees.
      b. Eggshell: Between 5 and 20 at 60 degrees.
      c. Satin: Between 15 and 35 at 60 degrees.
      d. Semigloss: Between 30 and 65 at 60 degrees.
      e. Gloss: Over 65 at 60 degrees.

B. Exterior Finish Paint Types:
   1. Paint Type EAL-1: Exterior Acrylic Latex, Flat.
      a. Solids by Weight: 52.0 percent.
      b. Solids by Volume: 32.0 percent.
      c. Solvent: Water.
      d. Vehicle: 100 percent acrylic resin.
      e. Weight per Gallon: 10.5 lbs.
      f. Wet Film Thickness: 4.0 mils.
      g. Dry Film Thickness: 1.3 mils.
      h. Manufacturers: ICI Dulux, PPG, Sherwin-Williams.
      a. Solids by Weight: 47.0 percent.
      b. Solids by Volume: 33.2 percent.
      c. Solvent: Water.
      d. Vehicle: 100 percent acrylic resin.
      e. Weight per Gallon: 10.0 lbs.
      f. Wet Film Thickness: 4.0 mils.
      g. Dry Film Thickness: 1.3 mils.
      h. Manufacturers: ICI Dulux, PPG, Sherwin-Williams.
      a. Solids by Weight: 40.0 percent.
      b. Solids by Volume: 32.0 percent.
      c. Solvent: Water.
      d. Vehicle: 100 percent acrylic resin.
      e. Weight per Gallon: 10.0 lbs.
f. Wet Film Thickness: 3.4 mils.
g. Dry Film Thickness: 1.2 mils.
h. Manufacturers: Benjamin Moore, PPG, Sherwin-Williams.

a. Solids by Weight: 79.0 percent.
b. Solids by Volume: 68.0 percent.
c. Pigment by Weight: 90.0 percent zinc.
d. Solvent: Water.
e. Weight per Gallon: 24.6 lbs.
f. Dry Film Thickness: 3.0 mils if finish coated, 4.0 mils if not finish coated.

C. Other Finish Paint Types:
1. Paint Type EIC: Elastomeric Insulation Coating, Acrylic Latex.
a. As manufactured or recommended by insulation manufacturer.

D. Colors: Provide paint colors shown on contract drawings or to be selected by the Director from finish paint manufacturers available color selections.
1. Approved finish paint manufacturers to match designated colors of other manufacturers where colors are shown on contract documents.
3. Fire Protection Systems: Paint exposed piping, and handles of valves serving the system as specified below:
4. Color Coding: Apply exposed insulated and uninsulated piping finish paints in the following colors when piping is located in the following applicable rooms or spaces:
a. Applicable Rooms and Spaces: Mechanical Equipment Rooms, Steam Service Rooms, Refrigeration Machine Rooms, Boiler Rooms, Penthouse Mechanical Equipment Rooms and Power Houses.
b. Existing Facility Buildings: Color code to match Facility’s color code.
c. New Facility Buildings: Color code as follows:
   1) Air, Compressed: Safety Green.
   2) Air, Control: Safety Green.
   3) Air, Medical: Safety yellow.
   4) Ammonia, Gas and Liquid: Safety Yellow.
   5) Brine: Safety Green.
   6) Carbon Dioxide: Safety Red.
   7) Dangerous Materials: Safety Yellow.
8) Engine Exhausts: Safety Yellow.
9) Fire Protection Systems; Fire Standpipe, Sprinkler, and
Wet Chemical Systems: Safety Red.
10) Flue Gases: Safety Yellow.
11) Gas, Natural and Manufactured: Safety Yellow.
12) Gasoline: Safety Yellow.
13) Glycol and Glycol/Water Mixtures: Safety Yellow.
14) Nitrous Oxide: Safety Blue.
18) Refrigerants: Safety Yellow.
19) Sewers, Storm and Sanitary: Safety Yellow.
20) Steam; Supply, Condensate Return and Exhaust: Safety
Yellow.
21) Vacuum: Safety Green.
22) Vent, Atmospheric: Safety Green.
23) Water, Up to 140 Degrees Fahrenheit: Safety Green.

d. Other Colors:
1) Exposed Ductwork: Gray.
2) Insulated and Uninsulated Equipment: Gray.
   a) Do not paint equipment with factory finish
   paint.

PART 3 EXECUTION

3.01 EXAMINATION

A. Examine surfaces to be prepared, primed, or painted for compliance with
contract documents, required environmental conditions, manufacturer’s product
data sheets, product label instructions and other written requirements.
1. Do not begin any phase of the work without first checking and verifying
that surfaces and environmental conditions are acceptable for such work
and that any earlier phase deficiencies and discrepancies have been
properly corrected.
   a. The commencement of new work shall be interpreted to mean
   acceptance of surfaces to be affected.

3.02 PREPARATION

A. Protection: Cover and protect surfaces to be painted, adjacent surfaces not to be
painted, and removed furnishings and equipment from existing paint removals,
airborne sanding particles, cleaning fluids and paint spills using suitable drop
cloths, barriers and other protective devices.
1. Adjacent exterior surface protections include roofs, walls, landscaping,
driveways and walkways. Interior protections include floors, walls,
furniture, furnishings and electronic equipment.
2. Remove and replace removable hardware, lighting fixtures, telephone equipment, other devices and cover plates over concealed openings in substrates to be painted.
   a. Cover and neatly mask permanently installed hardware, lighting fixtures, cover plates and other devices which cannot be removed and are not scheduled for painting.
3. Schedule and coordinate surface preparations so as not to interfere with work of other trades or allow airborne sanding dust particle to fall on freshly painted surfaces.
4. Provide adequate natural or mechanical ventilation to allow surfaces to be prepared and painted in accordance with product manufacturer’s instructions and applicable regulations.
5. Provide and maintain “Wet Paint” signs, temporary barriers and other protective devices necessary to protect prepared and freshly painted surfaces from damages until Work has been accepted.

B. Clean and prepare surfaces to be painted in accordance with specifications, paint manufacturer’s approved product data sheets and printed label instructions. In the event of conflicting instructions or directions, the more stringent requirements shall apply.
1. Cleaners: Use only approved products manufactured or recommended by finish paint manufacturer. Unless otherwise recommended by cleaner manufacturer, thoroughly rinse with clean water to remove surface contaminants and cleaner residue.

C. Surfaces:
1. Existing Painted Substrates: Thoroughly clean to remove dirt, soot, grease, mildew, chalkiness and stains using finish paint manufacturer’s recommended cleaners.
   a. Remove loose, peeling, cracked and blistered paint by chipping, scraping, and sanding smooth with medium and fine sandpaper
   b. Completely strip and remove existing paint films where shown on the drawings using approved methods. When approved, chemical strippers are to be applied and rinsed or removed in accordance with product manufacturer’s printed instructions.
   c. Fill surface holes and depressions with finish paint manufacturer’s recommended filler and sand smooth to adjacent undisturbed edges.
   d. Touch-up bare spots on previously painted surfaces with finish paint manufacturer’s recommended primer.
   e. Sand existing semigloss and gloss paint surfaces to a uniform smooth dull finish before painting.
   f. Fill and sand smooth existing paint surface damages, depressions, ridges and other imperfections that will remain visible after new paints have been applied.
2. Steel Substrates:
   a. Prepare steel in accordance with Structural Steel Painting Council (SSPC) standards:
1) **SSPC-SP1**: Remove oil, grease, dirt, soil, salts, and other surface contaminants using appropriate cleaning solvents and clean rags, vapor, alkali, emulsion, or steam and adequate ventilation.

2) **SSPC-SP2**: Remove loose rust, mill scale, and paint to the degree specified by hand chipping, scraping, sanding, and wire-brushing.

3) **SSPC-SP3**: Remove loose rust, mill scale, and paint to the degree specified by power-tool chipping, descaling, sanding, wire-brushing, and grinding.

4) **SSPC-SP5**: Remove all visible rust, mill scale, paint, and foreign matter by white-metal blast cleaning with wheel or nozzle (dry or wet) using sand, grit, or shot.

5) **SSPC-SP6**: Remove all visible rust, mill scale, paint, and foreign matter by commercial blast cleaning until at least two-thirds of each element of the surface is free of all visible residues.

6) **SSPC-SP10**: Near white blast cleaning for heat resistant paints.

5. **Galvanized Metal**:
   a. Allow new galvanized surfaces to weather as long as possible before cleaning. Remove surface contaminants using clean rags and petroleum spirits.
   b. Remove “white rust” using appropriate solvent and, if necessary, wire brushing or sanding.
   c. Use appropriate Structural Steel Painting Council Standard SSPC-SP1 to SSPC-SP6 to prepare steel substrates where galvanized protection has been removed.

6. **Aluminum**:
   a. Non-corroded Surfaces: Rub with fine steel wool and wipe clean with mineral spirits.
   b. Corroded Surfaces: Sand smooth, rub with fine steel wool and wipe clean with mineral spirits.

D. **Painting Material Preparations**:
   1. Prepare painting materials in accordance with manufacturer’s approved product data sheets and printed label instructions.
      a. Stir materials before and during application for a consistent mixture of density. Remove container surface paint films before stirring and mixing.
      b. Slightly tint first opaque finish coat where primer and finish coats are the same color.
      c. Do not thin paints unless allowed and directed to do so in writing within limits stated on approved product data sheets.

3.03 **PAINTING SCHEDULE**

A. **Exterior Exposed Items**: Unless otherwise specified, apply the following paint types with manufacturer’s recommended primers on the following exterior substrates:
3.04 APPLICATION

A. Environmental Conditions:
   1. Water-based Paints: Apply when surface temperatures will be 50 degrees Fahrenheit to 90 degrees Fahrenheit throughout the drying period.
   2. Other Paints: Apply when surface temperatures will be 45 degrees Fahrenheit to 95 degrees Fahrenheit throughout the drying period.
   3. Apply exterior paints during daylight hours free from rain, snow, fog and mist when ambient air conditions are more than 5 degrees above the surface dewpoint temperature and relative humidity less than 85 percent.
   a. When exterior painting is allowed or required during nondaylight hours, provide portable outdoor weather recording station with constant printout showing hourly to diurnal air temperature, humidity, and dewpoint temperature.
   4. Exterior Cold Weather Protection: Provide heated enclosures necessary to maintain specified temperature and relative humidity conditions during paint application and drying periods.

B. Application: Apply approved paints where specified, or shown on the drawings, and to match approved field examples.
   1. Applicators: Brushes, rollers or spray equipment recommended by the paint manufacturer and appropriate for the location and surface area to be painted.
   a. Approved minimum wet and dry film thicknesses for each coat shall be as recommended on approved product data sheets and the same for each application method and substrate.

C. Paint Type Coats To Be Applied: Unless otherwise specified, or recommended by finish paint manufacturer’s product data sheet and approved by submittal, the number of coats to be applied for each paint type are as follows:
   1. Acrylic Latex Paint Types EAL and IAL:
      a. New Unpainted Surfaces: Apply 1 coat of primer and 2 coats of finish paint.
      b. Existing Painted Surfaces:
         1) Apply 2 coats of finish paint when existing paint has a lower gloss.
         2) Apply one coat of primer and 2 finish coats when existing paint has a higher gloss.
c. Paint Type IAL: Provide mildewcide additive for bathrooms, kitchens, janitor closets, laundry rooms, restrooms and other wet or damp areas.

2. Paint Types ESP and ISP: Apply 1 coat.
   a. Allow paint to dry one week and test adhesion. Remove and replace defective primer where adhesion failures occur.

3. Other Paint Types: Apply in accordance with paint manufacturer’s product data sheets.

3.05 FIELD QUALITY CONTROL

A. Paint Samples: Assist the Director’s Representative in obtaining random one quart paint samples for testing at any time during the Work.
   1. Notify the Director’s Representative upon delivery of paints to the Site.
   2. Furnish new one quart metal paint containers with tight fitting lids and suitable labels for marking.
      a. Furnish labor to thoroughly mix paint before sampling and provide assistance with sampling when required.

3.06 ADJUSTING AND CLEANING

A. Reinstall removed items after painting has been completed.
   1. Restore damaged items to a condition equal to or better than when removed. Replace damaged items that cannot be restored.

B. Touch up and restore damaged finish paints. Touch up and restoration paint coats are in addition to the number of specified finish paint coats.

C. Remove spilled, splashed, or spattered paint without marring, staining or damaging the surface. Restore damaged surfaces to the satisfaction of the Director’s representative.

D. Remove temporary barriers, masking tape, and other protective coverings upon completion of painting, cleaning and restoration work.

END OF SECTION
TRIM BACK EXISTING THRU-WALL FLASHING TO FIRST VERTICAL. BEND AS SHOWN IN THRU WALL FLASHING REPAIR DETAIL.

REMOVE BRICK ABOVE EXISTING THRU-WALL FLASHING. REFER TO BIA TECH NOTE 46.

REMOVE EXISTING TERMINATION BAR AND FASTENERS, COMPLETE TWO PIECE STAINLESS STEEL COUNTERFLASHING REGLET ATTACHMENT INSTALLED WITH MASONRY. TERMINATION BAR AND ROOF MEMBRANE, SEE DESIGN DETAILS. REINSTALL BRICK BEND EXISTING THRU-WALL FLASHING UP AND LAP OVER COUNTER FLASHING CONTINUOUS BEAD OF TYPE 1 SEALANT STAINLESS STEEL FABRIC FLASHING.

WARNING: THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.
WORK NOTES - MASONRY RESTORATION

1. **Remove and reconstructed parapet with 6-inch CMU backup wall and 4-inch vertical reinforcement through existing cornice stone and details 7/S-302.**

2. **Provide restoration anchors along each side of joint.** Sawcut layout control joints at 15'-0" OC in inside wythe of brick parapet. Provide deep crack repair. Provide restoration anchors and remove brick veneer (lower 3 courses). See work note 5.

3. **Provide restoration anchors and remove brick veneer (lower 3 courses).** Provide replacement brick units. Coordinate work with masonry parapet. See details 3/S-302. Assume 2,750 LF of re-pointing at exterior face.


5. **Provide replacement units at exterior face of parapet.** See details 1/S-302. Assume 5/S-302. Install anchors. Remove cramp and cut out sealant and mortar between brick and re-point (lower 3 courses) provide replacement units. Coordinate work with masonry parapet. See details 3/S-302. Assume 100 LF of control joints. Provide restoration anchors and remove brick veneer (lower 3 courses) and provide backer rod and type 1 sealant with weathercap. Assume 330 LF of coping joints. See details 6/S-302.

**NOTES TO SCALE:**

- 1/8" = 1'-0"

**CONSTRUCTION:**

- Replace roof, administration building, and is a class 'A' misdemeanor.

**NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE LICENSED PROFESSIONAL (ALSO KNOWN AS A COMPARABLE CERTIFIED PROFESSIONAL).**
GENERAL INSTRUCTIONS

SECTION AND DETAIL REFERENCES

SPECIAL NOTES

DRAWING NUMBER:

SHEET TITLE:

APPROVED:

FIELD CHECK:

DRAWN BY:

DESIGNED BY:

CLIENT:

LOCATION:

PROJECT NUMBER:

MARK DATE

DESCRIPTION

Q1711

DIVISION OF MILITARY & NAVAL AFFAIRS

CONTINGENCY PLAN

IT Facility

Q1711 3/10/2018

REVISION DESIGNATION

SHEET NUMBER

NEW REMOVAL OF EXISTING SOFFIT (ABOVE) OR HIDDEN (SURFACE BELOW)

EXISTING CONSTRUCTION CLASS: IIB

EXISTING OCCUPANCY: B

OCCUPANCY AND CONSTRUCTION CLASS ARE NOT CHANGED BY THE WORK.

EGRESS AND EXITING ARE NOT CHANGED BY THE WORK.

CODE NOTES

1. OVERALL GOVERNING CODE IS NEW YORK STATE UNIFORM BUILDING AND ENERGY CODE 2016.

2. SEE STRUCTURAL DRAWINGS FOR STRUCTURAL CODE REQUIREMENTS.

OCCUPANCY AND CONSTRUCTION CLASS

1. EXISTING CONSTRUCTION CLASS: III

2. EXISTING OCCUPANCY: B

3. OCCUPANCY AND CONSTRUCTION CLASS ARE NOT CHANGED BY THE WORK.

4. EGRESS AND EXITING ARE NOT CHANGED BY THE WORK.

TEMPORARY PROTECTION NOTES

1. TEMPORARY ACCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. COMPLY WITH OSHA STANDARD 1926.500 FALL PROTECTION AND ALL LOCAL CODES AND ORDINANCES OF GOVERNING AUTHORITIES HAVING JURISDICTION. SUBMIT SCAFFOLDING SYSTEM DESIGN PREPARED BY REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK, FOR INFORMATION ONLY.

A. THE OUTER SIDE AND ENDS OF EACH SCAFFOLD SHALL BE COVERED WITH SAFETY NETTING.

B. SCAFFOLDING SHALL EXTEND TO 6'-0" ABOVE TOP OF PARAPET (+/-.B'-0")

2. SIDEWALK SHED STRUCTURES SHALL BE PROVIDED AT ALL SIDEWALKS ADJACENT TO THE WORK ON THE EXTERIOR FACE OF THE BUILDING. COMPLY WITH CHAPTER 33 OF THE NEW YORK STATE UNIFORM CODE AND ALL LOCAL CODES AND ORDINANCES OF GOVERNING AUTHORITIES HAVING JURISDICTION. SUBMIT SIDEWALK SHED DESIGN PREPARED BY REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF NEW YORK, FOR INFORMATION ONLY.

A. SIDEWALK SHED DECK SHALL BE DESIGNED AND CONSTRUCTED TO CARRY A LIVE LOAD OF 300 PSF.

B. THE OUTER SIDE AND ENDS OF THE DECK OF THE SHED SHALL BE PROVIDED WITH A SUBSTANTIAL ENCLOSURE AT LEAST 3'-6" HIGH.

C. THE WALKWAY BELOW THE SHED SHALL BE WIDE ENOUGH TO ACCOMMODATE PEDESTRIAN TRAFFIC NORMAL TO THE LOCATION WITHOUT CAUSING CONGESTION, BUT IN NO CASE SHALL THE WIDTH BE LESS THAN 4'-0". THE HEIGHT OF THE WALKWAY MUST BE 8'-0" CLEAR.

D. THE UNDERSIDE OF THE SHED SHALL BE LIGHTED AT ALL TIMES, EITHER BY NATURAL OR ARTIFICIAL LIGHT. THE LEVEL OF ILLUMINATION SHALL BE THE EQUIVALENT OF THE PRODUCED BY (2) 100 WATT, 3400 LUMEN STANDARD INCANDESCENT LAMPS SPACED 15'-0" APART.

E. ALL OPENINGS IN SIDEWALK SHED AT THE DECK LEVEL SHALL BE CLOSED OR PROTECTED AT ALL TIMES.
TOWER AND BULKHEAD ROOF REMOVAL PLAN

DR.10 REMOVE PITCH POCKET AROUND VENT PIPES, PIPES TO REMAIN.

DR.11 REMOVE FLASHING AROUND MECHANICAL PENETRATIONS ,

DR.8 REMOVE EXISTING SKYLIGHT AND SKYLIGHT CURB, COMPLETE. CLEAN AND REPAIR OPENING FOR CONCRETE INFILL TO MATCH EXISTING ROOF DECK.

DR.9 REMOVE ROOF MEMBRANE, FLASHING, ADHESIVES, AND PAINTS FROM

DR.12 REMOVE PITCH POCKETS AT ELECTRICAL PENETRATION S, CONDUIT TO STRUCTURE.

DR.13 REMOVE MECHANICAL UNIT, SEE MECHANICAL DRAWING S. TEMPORARILY

DR.14 REMOVE 2'-0" X 2'-0" OF CONCRETE SLAB AROUND R OOF DRAIN. SEE

DR.15 REMOVE ABANDONED ELECTRICAL PITCH POCKET

DR.16 LOOSEN LOWER CLAMP RING, RAISE UP 18" AND RETIGHTEN. REMOVE ROOF

DS.2 REMOVE EXISTING METAL STAIR

DS.1 REMOVE EXISTING WOOD STAIR

DR.4 REMOVE EXISTING METAL FLASHING, TRIM THRUWALL FLASHING AT BRICK

DR.3 REMOVE EXISTING ROOF DRAIN TO FIRST ELBOW.

DR.2 REMOVE EXISTING ROOF SYSTEM TO LEVEL OF CONCRETE ROOF SLAB

DR.1 REMOVE EXISTING ROOF SYSTEM TO LEVEL OF CONCRETE ROOF SLAB

REFERENCE PHOTO FOR DR.16

ROOF PENETRATION LEGEND

F - USE PIPE OF CORRECT DIAMETER IN HOLES

WARNING:

AND IS A CLASS 'A' MISDEMEANOR.

THE ALTERATION OF THIS MATERIAL IN ANY WAY,

THE CONTRACTOR SHALL STOP WORK IN THE AFFECTED AREA, AND

METHODS AND MATERIALS SHALL BE SUBJECT TO THE APPROVAL OF THE DIRECTOR'S

REPRESENTATIVE IN WRITING OF DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE

REPRESENTATIVE.

HAZMAT SCOPE THE CONTRACTOR SHALL STOP WORK IN THE AFFECTED AREA, AND

HAZARDOUS MATERIAL. WHEN IN THE COURSE

HAZARDOUS MATERIAL.

REQUEST TO REMOVE MATERIAL THAT MIGHT NOT BE CUT OR PATCHED.

IF NOT CUT AND PATCH STRUCTURAL ELEMENTS IN A MANNER THAT COULD CHANGE THEIR LOAD

IMMEDIATELY NOTIFY THE DIRECTOR'S REPRESENTATIVE.

HAZMAT DESCRIPTION THE CONTRACTOR SHALL STOP WORK IN THE AFFECTED AREA, AND

REPAIR OR REPLACEMENT

REPRESENTATIVE.

CONDITION, AT NO EXPENSE TO THE DIRECTOR'S REPRESENTATIVE.

HAZMAT SCOPE THE CONTRACTOR SHALL STOP WORK IN THE AFFECTED AREA, AND

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AND IS A CLASS 'A' MISDEMEANOR.
CONSTRUCTION

REPLACE ROOF, ADMINISTRATION BUILDING
WICKS EXEMPT
DIVISION OF MILITARY & NAVAL AFFAIRS

WARNING:
THE ALTERATION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE DIRECTION OF A COMPARABLE PROFESSIONAL, I.E. ARCHITECT FOR AN ARCHITECT, ENGINEER FOR AN ENGINEER OR LANDSCAPE ARCHITECT FOR A LANDSCAPE ARCHITECT, IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND/OR REGULATIONS AND IS A CLASS 'A' MISDEMEANOR.

CONTRACT:
TITLE:
LOCATION:
CLIENT:
DESIGNED BY:
DRAWN BY:
FIELD CHECK:
APPROVED:
SHEET TITLE:
DRAWING NUMBER:

CONSULTANT

36x24 PLOT SHEET

1/8" = 1'-0"

FIFTH FLOOR

CONSTRUCTION KEYED NOTES

NO. DESCRIPTION
C.1 PATCH PLASTER CEILING TO MATCH EXISTING. IAL-3 PAINT TO MATCH EXISTING.
W.2 PROVIDE GYPSUM PARTITION INFILL TO MATCH EXISTING. TAPE, SAND, AND IAL-3 PAINT TO MATCH EXISTING.

REMOVAL KEYED NOTES

NO. DESCRIPTION
DC.1 REMOVE EXISTING PLASTER TO ALLOW FOR ROOF DRAIN AND PIPING REPLACEMENT WORK. ASSUME 100 SF PER ROOF DRAIN. SEE PLUMBING DRAWINGS.
DC.4 PROVIDE DUST BARRIER AROUND CEILING WORK. DUST ENCLOSURE SHALL NOT IMPEDE STAIR USE OR EXITING.
DW.1 SELECTIVE REMOVAL OF WALL ASSEMBLY TO ALLOW FOR PLUMBING WORK. SEE PLUMBING DRAWINGS.

A-104
WOOD BLOCKING, NOTCHING OF WOOD TO FIT FLUSH OVER FASTENERS IS REQUIRED EXISTING LIGHTWEIGHT CONCRETE SLAB

5" RIGID INSULATION (1 LAYER OF 3" AND 5" RIGID INSULATION (1 LAYER OF 3"

STAGGER INSULATION JOINTS MINIMUM

CONTINUOUS BEAD OF TYPE 1 SEALANT

( RIGID INSULATION AND PROTECTION BOARD)

1 LAYER OF 2" FLAT ISO BASE LAYER OF 12" BETWEEN LAYERS TYPICAL)

BOARD TOGETHER ACHIEVE R30

1/2" INSULATIVE PROTECTION BOARD

90 MIL EPDM ROOF MEMBRANE

1" TO 1-1/2"

1/2" EXTERIOR GRADE PLYWOOD

6" CURED EPDM COVER TAPE

12" CURED EPDM COVER TAPE

3" SPLICE TAPE

BY ROOF MANUFACTURER)

( SEALANT OVER FASTENER HEADS 12" ON CENTER MAXIMUM

BATTEN WITH FASTENERS AT IN PRIMER/ADHESIVE

VAPOR BARRIER SET IN DOWN FACE

90 MIL EPDM MEMBRANE EXTENDS MANUFACTURER SUPPLIED BELOW HEAD OF ANCHOR.

SELF DRILLING CONCRETE ANCHOR AT CONCRETE SLAB WITH 1/4" DIAMETER

CONTINUOUS METAL CLEAT BY ROOFING MANUFACTURER

FORMED STAINLESS STEEL GRAVEL STOP

SEALANT BY ROOFING MANUFACTURER

CONTINUOUS BEAD OF TYPE 1

8" ON CENTER MAXIMUM

1" STAINLESS STEEL NAILS AT

1/2" SPLICE TAPE

BY ROOF MANUFACTURER)

3" SPLICE TAPE

BY ROOF MANUFACTURER)

6" CURED EPDM COVER TAPE

3" SPLICE TAPE

BY ROOF MANUFACTURER)

6" CURED EPDM COVER TAPE

3" SPLICE TAPE

BY ROOF MANUFACTURER)

6" CURED EPDM COVER TAPE

3" SPLICE TAPE

BY ROOF MANUFACTURER)

6" CURED EPDM COVER TAPE

3" SPLICE TAPE
1. Existing roof top unit to remain.
2. Existing VRV condensing unit to remain operational. Coordinate for dunnage with structural drawings.
3. Disconnect existing exhaust fan and salvage for re-installation, provide rust protective painting as per specifications section 099103 on fan base. Reconnect existing exhaust fan and test.
4. Existing roof curb to remain. Re-clad the roof curb as per architectural drawing details. Modify and extend the ductwork as necessary per field conditions to accommodate the rise in height. This extension is approximately 4".
5. Existing 4” vent through roof to remain.
6. Existing hydronic piping to remain.

A. Refer to drawing M-001 for general notes & symbols.
B. Contractor is responsible for providing all necessary ductwork drops, risers or transitions required for coordination with structural beams.
C. All existing mechanical equipment shall be installed in accordance with manufacturer recommendations and code requirements.
D. Provide manufacturer recommended equipment clearances for maintenance purposes for all equipment.
E. Contractor shall verify all dimensions, locations and clearances prior to start of construction.
GENERAL NOTES
1. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY THE EXACT LOCATIONS OF THE EXISTING ELEMENTS.
2. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY THE EXISTING ELEMENTS TO REMAIN AND RESTORE THE UTILITIES BACK TO ITS ORIGINAL FUNCTIONING.
3. ANY DAMAGES TO THE EXISTING ELEMENTS OR ANY ITEMS NOT IN SCOPE OF WORK SHALL BE REPAIRED AND BROUGHT TO EXISTING CONDITION WITHOUT ANY ADDITIONAL COST TO THE DIRECTOR'S REPRESENTATIVE.
4. TO THE BEST OF DESIGNER'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THE PLANS OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CODE.

SHEET KEY NOTES
1. EXISTING 4" VENT THROUGH ROOF TO REMAIN. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY THE EXACT LOCATIONS.
2. REMOVE EXISTING ROOF DRAINS UP TO FIRST ELBOWS BELOW ROOF DECK. PLUG THE OPEN ENDS OF THE PIPING UNTIL THE ROOF DRAINS ARE INSTALLED. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATIONS. ALSO REFER TO STRUCTURAL DRAWINGS AND COORDINATE FOR ALL SLAB REPAIR NEEDED AT ROOF DRAIN REPLACEMENT LOCATIONS.
3. EXISTING HYDRONIC PIPING TO REMAIN.
4. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY AND COORDINATE THE EXACT LOCATIONS OF THE PLUMBING ELEMENTS ON THE ROOF.
5. CONTRACTOR IS RESPONSIBLE TO PROTECT THE EXISTING ITEMS TO REMAIN AND RESTORE THE UTILITIES BACK TO ITS ORIGINAL FUNCTIONING.
6. ANY DAMAGES TO THE EXISTING ELEMENTS OR ANY ITEMS NOT IN SCOPE OF WORK SHALL BE REPAIRED AND BROUGHT TO EXISTING CONDITION WITHOUT ANY ADDITIONAL COST TO THE DIRECTOR'S REPRESENTATIVE.
7. TO THE BEST OF DESIGNER'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THE PLANS OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CODE.
GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY AND COORDINATE THE EXACT LOCATIONS OF THE PLUMBING ELEMENTS ON THE ROOF.

2. CONTRACTOR IS RESPONSIBLE TO PROTECT THE EXISTING ITEMS TO REMAIN AND RESTORE THE UTILITIES BACK TO ITS ORIGINAL FUNCTIONING.

3. ANY DAMAGES TO THE EXISTING ELEMENTS OR ANY ITEMS NOT IN SCOPE OF WORK SHALL BE REPAIRED AND BROUGHT TO EXISTING CONDITION WITHOUT ANY ADDITIONAL COST TO THE DIRECTOR'S REPRESENTATIVE.

4. TO THE BEST OF DESIGNER'S KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THE PLANS OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CODE.

SHEET KEY NOTES

1. EXISTING 4" VENT THROUGH ROOF TO REMAIN.

2. PROVIDE ROOF DRAINS COMPLETE WITH THE DOME AND ALL ASSOCIATED FITTINGS. EXTEND THE PIPING UP TO NEAREST MAINS ON FLOOR BELOW. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY AND MATCH THE STORM PIPING TO EXISTING. COORDINATE WITH OTHER TRADES TO ENSURE REQUIRED SLOPES ARE PROVIDED AROUND THE ROOF DRAINS. SEE ROOF DRAIN SCHEDULE IN SHEET P-701. ALSO REFER TO STRUCTURAL DRAWINGS AND COORDINATE FOR ALL SLAB REPAIR NEEDED AT ROOF DRAIN REPLACEMENT LOCATIONS.

3. EXISTING HYDRONIC PIPING TO REMAIN.