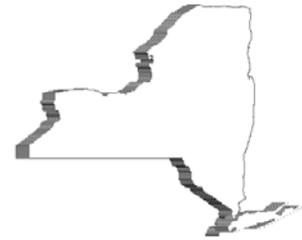




STATE OF NEW YORK  
OFFICE OF GENERAL SERVICES  
DESIGN AND CONSTRUCTION GROUP  
THE GOVERNOR NELSON A. ROCKEFELLER  
EMPIRE STATE PLAZA  
ALBANY, NY 12242



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**ADDENDUM NO. 3 TO PROJECT NO. M2989**

**CONSTRUCTION WORK  
REINFORCE EXISTING WAFFLE ROOF  
BUILDING NO. 77  
GREATER BINGHAMTON HEALTH CENTER  
425 ROBINSON STREET  
BINGHAMTON, NY**

May 29, 2012

**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.

**BIDDING REQUIREMENTS**

1. DOCUMENT 002216 SUPPLEMENTARY INSTRUCTIONS TO BIDDERS ASBESTOS PROJECTS: Add the accompanying document (page 002216-1) to the Project Manual

**SPECIFICATIONS**

2. DOCUMENT 028213 ASBESTOS ABATEMENT: Add the accompanying document (pages 028213-1 thru 028213-8) to the Project Manual.
2. DOCUMENT 028304 HANDLING OF LEAD CONTAINING MATERIALS: Add the accompanying document (pages 028304-1 thru 028304-8) to the Project Manual.
3. DOCUMENT 079200 JOINT SEALERS: Add the accompanying document (pages 079200-1 thru 079200-3) to the Project Manual.
4. DOCUMENT 099101 CONSTRUCTION PAINTING: Add the accompanying document (pages 099101-1 thru 099101-6) to the Project Manual.

**DRAWINGS**

6. Drawing S-101 ROOF SLAB & COLUMN REHABILITATION:
  - a. Detail 01 CARBON FIBER REINFORCEMENT PLAN BOTTOM OF SLAB:
    1. Change Note 1. to read:
      1. CFRP procured strip reinforcement: Sika Carbodur provide 2 and 4 inch strips for 6" total width and alternate each size at each layer, follow manufacturers recommendations.
      2. Add Note "7. Provide 2 hr. mastic fireproofing per specifications."
  - b. Column 11:
    1. Delete note "1 Layer of FRP reinforcing/wrapping".
    2. Change "WINDOW" to "TRANSLUCENT PANEL".

## ADDENDUM NO. 3 TO PROJECT NO. M2989-C

- c. Column 13: Add note: "Provide FRP column wrapping only for length of column not embedded in below grade concrete wall, verify in the field."
  - d. Column 14: Add note: "Provide FRP column wrapping only for length of column not embedded in below grade concrete wall, verify in the field."
  - e. Column 17: Delete note "1 Layer of FRP reinforcing/wrapping".
  - f. Column 18:
    - 1. Delete note "1 Layer of FRP reinforcing/wrapping".
    - 2. Change "WINDOW" to "TRANSLUCENT PANEL".
  - g. Column 25: Delete note "1 Layer of FRP reinforcing/wrapping".
  - h. Column 26: Change "WINDOW" to "TRANSLUCENT PANEL".
7. Drawing S-103 COLUMN REHABILITATION:
- a. Detail 01:
    - 1. Change the "WINDOW" to "TRANSLUCENT PANEL".
    - 2. DELETE column 18 from scope of work for FRP column wrap.
    - 3. Add leader for notes 2, 3 & 4 to left CMU wall.
    - 4. Add note 5: "For column 18 scope of work does not include FRP column wrap but does include patching and or epoxy crack injection repair."
  - b. Detail 02:
    - 1. DELETE column 18 from scope of work for FRP column wrap.
    - 2. Add leader for notes 5, 6 & 7 to right CMU wall.
    - 3. Add note 9: "For column 18 scope of work does not include FRP column wrap but does include patching and or epoxy crack injection repair."
  - c. Detail 03:
    - 1. Change the "WINDOW(S)" to "TRANSLUCENT PANEL(S)".
    - 2. DELETE columns 11, 17 and 25 from scope of work for FRP column wrap.
    - 3. Add leader for notes 2, 3 & 5 to left CMU wall.
    - 4. Add leader for note 4 to left translucent panel.
    - 5. Add note 6: "For columns 11, 17 and 25 scope of work does not include FRP column wrap but does include patching and or epoxy crack injection repair."
  - d. Detail 04:
    - 1. Change the "WINDOW(S)" to "TRANSLUCENT PANEL(S)".
    - 2. DELETE columns 11, 17 and 25 from scope of work for FRP column wrap.
    - 3. Add leader for notes 5, 6 & 7 to right CMU wall.
    - 4. Add leader for note 8 to right translucent panel.
    - 5. Add note 10: "For columns 11, 17 and 25 scope of work does not include FRP column wrap but does include patching and or epoxy crack injection repair."

**ADDENDUM NO. 3 TO PROJECT NO. M2989-C**

8. Drawing A-101, Noted "Addendum 3 dated 5/23/12" accompanies this Addendum and forms part of the Contract Documents.

**END OF ADDENDUM**

James Dirolf, P.E.  
Director of Design

**DOCUMENT 002216**

**SUPPLEMENTARY INSTRUCTIONS TO BIDDERS - ASBESTOS PROJECTS**

This supplement modifies the Instructions to Bidders.

Add the following:

**21. CONDITION OF AWARD**

21.1 As a condition of award, the following shall be transmitted to the Bureau of Contract Awards, Division of Contract Administration, Design and Construction Group, Office of General Service, 35th Floor, Corning Tower, Empire State Plaza, Albany, NY 12242 by certified mail by the apparent low bidder within 5 days after the bids are opened and by other bidders within 5 days after receiving a written request from the Bureau of Contract Awards for such a submission:

- a. A copy of a valid asbestos-handling license issued by the Commissioner of Labor to the contractor who will perform the Work of the asbestos project.

**END OF DOCUMENT**

## SECTION 028213

### ASBESTOS ABATEMENT

#### PART 1 GENERAL

##### 1.01 SUMMARY

- A. This Section specifies the procedures for disturbance and removal of existing assumed asbestos-containing materials (ACM) and disposal of removed materials.
- B. Contractor shall remove translucent panels, and associated interior and exterior sealant assumed to be an ACM (approximately 200 linear feet) including mullions, as necessary, to access columns scheduled for repair. Contractor shall clean any residual sealant on translucent panels and any residual sealant on interior and exterior panel frames. Upon completion of overall scope of work at various locations, the Contractor shall reinstall translucent panels and any mullions removed. New sealant shall be applied in order to obtain an air tight condition on the interior and exterior of each panel.
- C. Type of Asbestos Abatement Project:
  - 1. Small Asbestos Abatement Project: An asbestos project involving the removal, disturbance, repair or handling of more than 10 square feet or 25 linear feet but less than 160 square feet or 260 linear feet of ACM.

##### 1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Summary of the Work: Section 011000.
- B. Construction Facilities and Temporary Controls: Section 015000.

##### 1.03 REFERENCES

- A. New York State Department of Environmental Conservation (DEC) 6NYCRR:
  - 1. Part 360 Solid Waste Management Facilities.
  - 2. Part 364 Waste Transporter Permits.
  - 3. Part 370 Hazardous Waste Management System-General.
  - 4. Part 371 Identification and Listing of Hazardous Wastes.
  - 5. Part 372 Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities.
  - 6. Part 373 Hazardous Waste Management Facilities.
- B. Occupational Safety and Health Administration (OSHA): Asbestos Regulations (29 CFR Part 1926.1101).
- C. U.S. Environmental Protection Agency (USEPA):
  - 1. National Emission Standards for Hazardous Air Pollutants; Asbestos NESHAP Revision; Final Rule.

2. Asbestos Emergency Response Act (AHERA) (40 CFR Part 763, Subpart E).
- D. New York State Department of Labor (DOL): Industrial Code Rule 56.

#### **1.04 DEFINITIONS**

- A. Authorized Personnel: Facility or the Director's Representative, and all other personnel who are authorized officials of any regulating agency, be it State, Local, Federal or Private entity who possess legal authority for enforcement or inspection of the work.
- B. Clearance Criteria: Shall be determined and established by a Certified Asbestos Project Monitor with an independent testing lab employed by the Director's Representative, conforming to all standards set forth by all authorities having jurisdiction, mentioned in the references, and issue the certification of cleaning.
- C. Site Specific Variance: Relief in accordance with section 30 of the Labor Law from specific sections of Industrial Code Rule 56 for a specific project.
- D. Phase I & II: Asbestos Project phases as defined and subcategorized in ICR 56-2.

#### **1.05 ABBREVIATIONS**

- A. ASTM: American Society for Testing and Materials  
1916 Race Street  
Philadelphia, PA 19103
- B. CFR: Code of Federal Regulations  
Government Printing Office  
Washington, DC 20402
- C. DOL: New York State Department of Labor  
Harriman State Office Building Campus  
Albany, NY 12240
- D. NIOSH: National Institute for Occupational Safety and Health  
Building J.N.E. Room 3007  
Atlanta, GA 30333
- E. OSHA: Occupational Safety and Health Administration  
200 Constitution Avenue  
Washington, DC 20210
- F. USEPA: United States Environmental Protection Agency  
401 M Street SW  
Washington, DC 20460

## **1.06 ASBESTOS SITE SPECIFIC VARIANCE**

- A. If a site specific variance is sought, the application must be submitted by the contractor's NYS DOL Certified Asbestos Designer within 14 days after the Contract Agreement is approved by the Comptroller. Forward the required forms to the Department of Labor for their action. Forward the required forms to the Department of Labor for their action.

## **1.07 SUBMITTALS**

- A. Asbestos Site Specific Variance Submittals; if a site specific variance is sought submit the following:
  - 1. One copy of the completed DOSH-751 and DOSH-465 forms
  - 2. One copy of the New York State Department of Labor site specific variance decision.
  
- B. Quality Control Submittals:
  - 1. Notification Compliance Data: Within 2 days after notification is sent to the regulatory agencies submit one copy of each notice sent to each regulatory agency (USEPA and DOL).
  - 2. Asbestos Removal Company Data: Name and address of proposed asbestos removal company and abatement contractor license issued by DOL.
  - 3. Asbestos Worker Certification Data: Name and address of proposed asbestos abatement workers and licenses issued by DOL.
  - 4. Work Plan: For information only, submit one copy of the work plan required under Quality Assurance Article.
  - 5. Waste Transporter Permit: One copy of transporter's current waste transporter permit from NYS DEC (NYS Part 364 Permit).
  - 6. Landfill: Landfill to be used for ACM disposal shall be licensed to receive asbestos waste by NYS DEC (NYS Part 360 Permit) and by USEPA. Out of state landfills shall provide licenses from local agencies having jurisdiction.
  - 7. Negative Air Pressure Equipment: Copy of manufacturer's and performance data of all units and HEPA filters used.
  
- C. Asbestos Work Closeout Submittals:
  - 1. Waste Shipment Records and Disposal Site Receipts: Copy of waste shipment record and disposal site receipt showing that the ACM has been properly disposed.
    - a. Waste shipment record and disposal site receipt must be received within 35 days of the ACM waste leaving the Site. If receipts are not received within the specified time period, the Director's Representative will notify USEPA in writing within 45 days of the ACM waste leaving the Site.
  
- D. Contract Closeout Submittals:
  - 1. Daily Log: Submit copy of Project Monitor's daily air sample log and a copy of Asbestos Abatement Contractor's Daily project log.
  - 2. Air Monitoring Data: Submit copy of air test results and chain of custody.

## **1.08 QUALITY ASSURANCE**

- A. Regulatory Requirements: Comply with the referenced standards.
- B. Pre-Work Conference: Before the Work of this Section is scheduled to commence, a conference will be held by the Director's Representative at the Site for the purpose of reviewing the Contract Documents, discussing requirements for the Work, and reviewing the Work procedures.
  - 1. The conference shall be attended by the Contractor, the asbestos removal subcontractor, and the project monitor employed by the Director.
- C. Work Plan: At the conclusion of the pre-work conference, before the physical abatement Work begins, prepare a detailed work plan.
  - 1. The work plan shall include, but not be limited to, work procedures, types of equipment, details of equipment used, decontamination unit locations, crew size, and emergency procedures for fire and medical emergencies and for failure of containment barriers.
  - 2. If a site specific variance is sought, do not finalize the work plan until the Department of Labor decision is received.

## **1.09 PROJECT CONDITIONS**

- A. In addition to the postings required by law, post at the entrance to the abatement area the following documents:
  - 1. Copy of the printed Work plan.
  - 2. Copy of Industrial Code Rule 56.
- B. Shut-down of Air Handling System: Complete the Work of this Section within the time limitation allowed for shut-down of the air handling system serving the work area.
  - 1. The air handling system will not be restarted until approval of the air monitoring tests following the last cleaning.
  - 2. If total shut down of the system is not acceptable, follow all regulations for local isolation and provision for temporary HVAC as per DOL regulations.
- C. Maintain electric services to those portions of the building and remaining facility not a part of the asbestos abatement work area at all times. Follow all regulations for electric power shut down exemptions as per DOL regulations.
- D. Do not obstruct any aisle or passageway so as to reduce its required width as an exit.

## **1.10 HEALTH AND SAFETY**

- A. Where in the performance of the work, workers, supervisory personnel or sub-contractors may encounter, disturb, or otherwise function in the immediate vicinity of contaminated items and materials, all personnel shall take appropriate

continuous measures as necessary to protect all ancillary building occupants from the potential ACM exposure.

1. Such measures shall include the procedures and methods described herein and shall be in compliance with all applicable regulations of Federal, State and Local agencies.

### **1.11 FIRE PROTECTION, EMERGENCY EGRESS AND SECURITY**

- A. Establish emergency and fire exits from the work area containment. Provide first aid kits and two full sets of protective clothing and respirators for use by qualified emergency personnel outside of the work area.
- B. Provide a logbook throughout the entire term of the project. All persons who enter the regulated abatement work area or enclosure shall sign the logbook. Document any intrusion or incident in the log book.

### **1.12 PERSONAL PROTECTIVE CLOTHING AND EQUIPMENT**

- A. Workers must wear personal protective equipment for all projects as per OSHA and DOL regulations. Provide respiratory protection in accordance with OSHA regulation 1910.134 and ANSI Z88.2.
- B. Workers must be trained as per OSHA and DOL requirements, have medical clearance and must have recently received pulmonary function test (PFT) and respirator fit tested by a trained professional.
  1. A personal air sampling program shall be in place as required by OSHA.
  2. The use of respirators must also follow a complete respiratory protection program as specified by OSHA.

## **PART 2 PRODUCTS**

### **2.01 DISPOSAL BAGS**

- A. Type: Minimum 6 mil thick, clear, and preprinted with a Caution Label.

### **2.02 EQUIPMENT**

- A. Temporary lighting, heating, hot water heating units, ground fault interrupters, and all other equipment on site shall be UL listed.
- B. All electrical equipment shall be in compliance with the National Electric Code, Article 305 - Temporary Wiring.

### **2.03 GLOVE BAGS**

- A. Type: Minimum 6 mil thick, clear, fire retardant polyethylene. Select glove bag sizes appropriate for the size and location of the project.
- B. Use high heat glove bags for high heat active steam lines.

## **2.04 NEGATIVE AIR PRESSURE UNITS**

- A. Type: Local exhaust system, capable of maintaining negative air pressure within the containment, and provides for HEPA filtration of efficiency not less than 99.97 percent with 0.3 micron particles. Equip the unit with filter alarms lights and operation time meter.

## **2.05 PLASTIC SHEETS**

- A. Type: Minimum 6 mil thick, clear, fire retardant polyethylene.

## **2.06 RESPIRATORS**

- A. Type: As approved by the Mine Safety and Health Administration (MSHA), Department of Labor, or the National Institute for Occupational Safety and Health (NIOSH), Department of Health and Human Services.

## **2.07 VACUUM CLEANERS**

- A. Type: Vacuums equipped with HEPA filters.

## **PART 3 EXECUTION**

### **3.01 ASBESTOS-CONTAINING MATERIAL HANDLING AND REMOVAL PROCEDURES**

- A. Comply with the standards referenced in Part 1 of this Section.

### **3.02 CLEAN UP PROCEDURES**

- A. Comply with the standards referenced in Part 1 of this Section.

### **3.03 PROJECT AIR SAMPLING, MONITORING AND ANALYSIS**

- A. Air Sampling and Analysis: The Director will employ the services of an independent testing laboratory to perform air sample monitoring. The laboratory shall use the methods described in standards referenced in Part 1 of this Section.
  1. The equipment, duration, flow rate, calibration of equipment, number and location of samples are as per ICR 56-4.
  2. Air sampling technician shall be on site to observe and maintain air sampling equipment for the duration of the air sampling collection.
  3. Period of time permitted between completion of air sample collection and receipt of results on the project site shall be equal or less than 48 hours.
- B. If air samples collected outside the regulated work area indicate airborne fiber concentrations at or above 0.01 fibers per cubic centimeter, or the established background level, which ever is greater, work shall stop immediately for inspection of barriers and negative air ventilation systems. Clean up surfaces outside the regulated work area using HEPA filter equipped vacuums and wet

cleaning methods. Work methods shall be altered to reduce fiber concentrations to acceptable levels.

- C. Elevated air sample results, if any, along with background and all other air sample results collected during Phase IIA through Phase IIC shall be submitted to the Commissioner of appropriate Asbestos Control Bureau within the same business day of receipt of results.

### **3.04 FINAL CLEANING AND CLEARANCE PROCEDURES**

- A. Negative Pressure Ventilation: Negative air pressure machines if used, shall remain in continuous operation during the entire length of the project.
- B. Cleaning and Visual Inspection: After first, second, third cleaning and required waiting/settling and drying periods, perform a final visual inspection.
  - 1. Final clearance air sampling shall commence after the waiting/settling and drying time as per ICR 56 has elapsed.
- C. Project Monitor Visual Inspection: The Director will employ the services of a DOL certified asbestos project monitor employed by an independent testing laboratory to perform visual inspection as required by ICR 56.
- D. Final Clearance Air Sampling: The Director will employ the services of an independent testing laboratory to perform final air sampling.
  - 1. The laboratory shall use the methods described in standards referenced in Part 1 of this Section.
  - 2. The equipment, duration, flow rate, calibration of equipment, number and location of samples are as per ICR 56-4.
  - 3. If initial Post-Abatement (Clearance Air) Monitoring results do not comply with the standards referenced in Part 1 of this Section the Contractor shall either re-clean or order a full set of TEM analysis.
    - a. Results of the TEM analysis will be conclusive, and if the results do not comply with the standards referenced in Part 1 of this Section, the Contractor shall re-clean and additional full set of air samples will be collected and analyzed until the standards are met.
    - b. All satisfactory PCM clearance air sample results along with background air sample results, if they are greater than or equal to 0.01 fibers per cubic centimeter, shall be submitted to the Commissioner of appropriate Asbestos Control Bureau within two business days of receipt of satisfactory clearance air results.
    - c. All satisfactory TEM results of previously unsatisfactory PCM clearance air sample results, along with the unsatisfactory PCM results shall be submitted to the Commissioner of appropriate Asbestos Control Bureau within two business days of receipt of satisfactory clearance air results.
  - 4. Prior to removal of isolation barriers the Director's Representative at the site will receive an affidavit from the air monitoring laboratory certifying the final air samples comply with the standards referenced in Part 1 of this Section.

- E. Dismantling of Regulated Abatement Work Area:
1. Remove all tools and equipment after proper decontamination as per Part 1 of this section.
  2. Dismantle and remove each tent enclosure and air lock and any barriers only after final clearance air monitoring has been performed and satisfactory results obtained.
  3. All remaining polyethylene, duct tape, expandable foam and other barrier materials shall be bagged, wrapped, containerized and labeled as asbestos waste.
  4. Remove all temporary hard walled barriers from site.
  5. Dismantle any remote decontamination units and plastic sheeting shall be disposed as asbestos waste.
  6. Remove all waste generated to the holding area, lockable trailer or dumpster.
  7. Contractor's Supervisor shall certify in writing to the Director that abatement work is complete and no debris/residue remains.

### **3.05 DISPOSAL OF ASBESTOS-CONTAINING MATERIAL AND RELATED DEBRIS**

- A. Remove all waste generated as part of the asbestos project from the project site within ten calendar days from the site after completion of Phase IIC of the project or within one day of the waste disposal container/trailer becomes full, whichever occurs first.
- B. Transport and dispose of all the asbestos-containing waste, related debris, and waste water to the approved disposal site.
- C. All generated waste removed from the site must be documented, accounted for and disposed of in compliance with the requirements of USEPA NESHAP.
- D. Comply also with the standards referenced in Part 1 of this Section.

### **3.06 RESTORATION**

- A. Remove temporary decontamination facilities and restore area designated for these facilities to its original condition or better.
- B. Where existing work is damaged or contaminated, restore work to its original condition or better.

**END OF SECTION**

## SECTION 028304

### HANDLING OF LEAD CONTAINING MATERIALS

#### PART 1 GENERAL

##### 1.01 SUMMARY

- A. This Section specifies the requirements for the detection and prevention of lead dust, paint chips, or debris contamination of lead dust control work areas and areas adjacent to them, protection of workers, post-work cleaning, predisposal testing and appropriate disposal of removed material.
- B. It is assumed that painted surfaces are lead-containing materials. It is also assumed that surfaces may or may not be disturbed by this project. If surfaces, such as but not limited to, paint on columns and paint on window panels/frames and etc., are disturbed then this section applies to this project.

##### 1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Summary of the Work: Section 011000.
- B. Construction Facilities and Temporary Controls: Section 015000.
- C. Removals Cutting and Patching: Section 017329.

##### 1.03 REFERENCES

- A. New York State Department of Environmental Conservation (DEC) 6NYCRR:
  - 1. Part 360 Solid Waste Management Facilities.
  - 2. Part 364 Waste Transporter Permits.
  - 3. Part 370 Hazardous Waste Management System-General.
  - 4. Part 371 Identification and Listing of Hazardous Wastes.
  - 5. Part 372 Hazardous Waste Manifest System and Related Standards for Generators, Transporters and Facilities.
  - 6. Part 373 Hazardous Waste Management Facilities.
- B. New York State Department of Transportation (DOT): Follow all regulations of 49CFR Part 100 through 199.
- C. Occupational Safety and Health Administration (OSHA): Lead Exposure in Construction: Interim Final Rule 29 CFR 1926.62.
- D. U.S. Department of Housing and Urban Development (HUD): Guidelines for evaluation and control of Lead based paint hazards: Title Ten of Housing and Community Act of 1992.
- E. U.S. Environmental Protection Agency (EPA): Resource Conservation and Recovery Act (RCRA) Section 3004 Hazardous and Solid Waste Amendments.
- F. U.S. Environmental Protection Agency (EPA): Toxicity Characteristics Leaching Procedure EPA Method 1311.

#### **1.04 DEFINITIONS**

- A. Authorized Personnel: Facility or the Director's Representative, and all other personnel who are authorized officials of any regulating agency, be it State, Local, Federal or Private entity who possess legal authority for enforcement or inspection of the work.
- B. Containment: The enclosure within the building which establishes a contaminated area and surrounds the location where lead remediation is taking place and establishes a Lead Control Work Area.
- C. Floor Surface Clearance Criteria: Shall be determined and established by an independent testing lab hired by the Director's Representative, conforming to all standards set forth by all authorities having jurisdiction, mentioned in the references, and issue the certification of cleaning. At a minimum no single post work lead wipe sample test values shall have reading levels greater than the levels established by pre-work wipe sampling test values, or greater than 40 mg/ft<sup>2</sup>. Record levels in mg/ft<sup>2</sup>.
- D. Fixed Object: Mechanical equipment, electrical equipment, fire detection systems, alarms, and all other fixed equipment, furniture, fixtures or other items which cannot be removed from the work area.
- E. HEPA: High Efficiency Particulate Absolute filtration efficiency of 99.97 percent down to 0.3 microns. Filtration provided on specialized vacuums and air filtration devices to trap particles.
- F. Lead Based Paint (LBP): Paints or other surface coatings that contain lead equal to or greater than 1.0 milligrams per square centimeter or 0.5 percent of lead by weight.
- G. Lead Dust Control Work Area: A cordoned off area with drop clothes or an enclosed area or structure with containment to prevent the spread of lead dust, paint chips, or debris from lead-containing paint disturbance operations.
- H. PPE: Personal Protective Equipment.

#### **1.05 ABBREVIATIONS**

- A. ASTM: American Society for Testing and Materials  
1916 Race Street  
Philadelphia, PA 19103
- B. CFR: Code of Federal Regulations  
Government Printing Office  
Washington, DC 20402
- C. DOT: Department of Transportation  
Main Office, 50 Wolf Road  
Albany, NY 12232

- D. NIOSH: National Institute for Occupational Safety and Health  
Building J, N.E. Room 3007  
Atlanta, Georgia 30333
- E. OSHA: Occupational Safety and Health Administration  
200 Constitution Avenue  
Washington, DC 20210
- F. USEPA: United States Environmental Protection Agency  
401 M Street SW  
Washington, DC 20460

## **1.06 SUBMITTALS**

- A. Quality Control Submittals: Submit the entire Lead Handling Work Plan, if applicable, submittal package at the same time.
  - 1. Worker' Qualifications: The persons removing lead containing/coated material and their Supervisors shall be personally experienced in this type of work and shall have been employed by a company with a minimum of one year experience in this type of work. Submit a copy of documentation of completion of the EPA lead renovators training program.
    - a. Name of lead supervisor on site during the work.
  - 2. Detailed Work Plan: Submit one copy of the work plan required under Quality Assurance Article.
  - 3. Waste Transporter Permit: One copy of transporter's current NYS DEC waste transporter permit.
- B. Operation and Maintenance Data: Submit air filtration unit operation and maintenance data and manufacturer's catalog sheets, if applicable, for the HEPA filter.
  - 1. Provide an affidavit stating that the HEPA filters to be used for this project are new and unused.
- C. Contract Closeout Submittals:
  - 1. Assessment Report compiled by a testing lab certifying that the work area has lead concentrations below the levels specified under the cleaning criteria, if conducted.
  - 2. Disposal Site Receipts: Copy of waste shipment record and disposal site receipt showing that the lead-containing materials have been properly disposed, if applicable.

## **1.07 QUALITY ASSURANCE**

- A. Regulatory Requirements: Comply with the referenced standards.
- B. Pre-Work Conference: Before the Work of this Section is scheduled to commence, a conference will be held by the Director's Representative at the Site with the contractor and the lead handling subcontractor (if any) for the purpose of reviewing the Contract Documents, discussing requirements for the Work, and

reviewing the Work procedures.

- C. Detailed Lead-Containing Material Removal Work Plan: Before the physical Work begins, prepare a detailed lead-containing material removal work plan, if applicable.
  - 1. The work plan shall include, but not be limited to, the location, size, and details of lead dust control work areas, containment, sequencing of lead containing material handling, work procedures, types of equipment, crew size, and emergency procedures for fire and medical emergencies, if applicable.

#### **1.08 PROJECT CONDITIONS, if applicable**

- A. Shut-down of Air Handling System: Complete the Work of this Section within the time limitation allowed for shutdown of the air handling system serving the work area.
  - 1. The air handling system will not be restarted until approval of the post-work dust-wipe testing following the last cleaning.
- B. Cover and seal all fin-tube radiator covers, diffusers, duplex outlets, speakers, smoke and heat detectors, etc. Use temporary plasticized partitions as required.
  - 1. Prevent lead containing dust from entering hard to clean areas within the dust containment area.
  - 2. Items judged to be too difficult to protect may be disconnected, removed and replaced at contractor's option.
- C. Remove or encase all movable equipment in the work area with two layers of six mil fire retardant polyethylene sheeting.
- D. Cut and altar existing materials as required to perform the work. Limit cutting to the smallest amount necessary. Core drill round holes and saw cut other openings where possible for removal work. Flame cutting, high speed grinding or welding is prohibited on lead painted surfaces.

#### **1.09 HEALTH AND SAFETY**

- A. Where in the performance of the work, workers, supervisory personnel or sub-contractors may encounter, disturb, or otherwise function in the immediate vicinity of contaminated items and materials, all personnel shall take appropriate continuous measures as necessary to protect all ancillary building occupants from the potential lead exposure.
  - 1. Such measures shall include the procedures and methods described herein and shall be in compliance with all applicable regulations of Federal, State and Local agencies.

#### **1.10 FIRE PROTECTION, EMERGENCY EGRESS AND SECURITY**

- A. Establish emergency and fire exits from the lead dust control work area containment. Provide first aid kits and two full sets of protective clothing and respirators for use by qualified emergency personnel outside of the work area.

- B. Provide a logbook throughout the entire term of the project. All persons who enter the regulated lead dust control work area or containment shall sign the logbook. Document any intrusion or incident in the log book.

### **1.11 PERSONAL PROTECTIVE CLOTHING AND EQUIPMENT**

- A. Workers must wear protective suits, protective gloves, eye protection and a minimum of half-face respirator with new HEPA filter cartridge for all projects. Respiratory protection shall be in accordance with OSHA regulation 1910.134 and ANSI Z88.2.
- B. Workers must be trained per EPA, have medical clearance and must have recently received pulmonary function test (PFT) and respirator fit tested by a trained professional.
  - 1. A personal air sampling program shall be in place as required by OSHA.
  - 2. The use of respirators must also follow a complete respiratory protection program as specified by OSHA.

## **PART 2 PRODUCTS**

### **2.01 RESPIRATORS**

- A. Type: Approved by the Mine Safety and Health Administration (MSHA), Department of Labor, or the National Institute for Occupational Safety and Health (NIOSH), Department of Health and Human Services.

### **2.02 VACUUM CLEANERS**

- A. Type: Vacuums equipped with new HEPA filters.

### **2.03 PLASTIC SHEETS**

- A. Type: Minimum 6 mil., clear, fire retardant polyethylene sheets.
- B. Floor Protective Layer: Minimum 10 mil., reinforced polyethylene sheets.

### **2.04 DISPOSAL BAGS**

- A. Type: Minimum 6 mil thick, clear polyethylene bags with preprinted Caution Label. Properly containerize/drum prior to disposal.

### **2.05 EQUIPMENT**

- A. Temporary lighting, heating, hot water heating units, ground fault interrupters, and all other equipment on site shall be UL listed and shall be safe, proper, and sufficient for the purpose intended.
- B. All electrical equipment shall be in compliance with the National Electric Code, Article 305 - Temporary Wiring.

## **PART 3 EXECUTION**

### **3.01 PRE-WORK WIPE TESTING**

- A. Testing: The Director, at his option, will employ the services of an independent testing laboratory to perform the pre-work testing within the lead dust control work area and the areas adjacent to the lead dust control work area.
  - 1. The testing lab will be New York State Department of Health, Environmental Laboratory Accreditation Program (NYS ELAP).

### **3.02 EMPLOYEE PROTECTION**

- A. Comply with all applicable Occupational Safety and Health Administration (OSHA) Requirements.

### **3.03 LEAD-CONTAINING/COATED MATERIAL HANDLING AND DISPOSAL**

- A. Handle and dispose of lead-containing materials in accordance with OSHA 1926.62 and the approved lead-containing material work plan. Use procedures and equipment required to limit occupational and environmental exposure to lead when material containing or coated with lead containing paint is handled and disposed of in accordance with referenced standards.

### **3.04 POST-WORK WIPE TESTING**

- A. Testing: The Director, at his option, will employ the services of an independent testing laboratory to perform the post-work testing within the lead dust control work area and the areas adjacent to the lead dust control work area.
  - 1. The testing lab will be New York State Department of Health, Environmental Laboratory Accreditation Program (NYS ELAP).

### **3.05 CLEANING CRITERIA, if applicable**

- A. Cleaning criteria is separated into two categories; areas within the lead dust control work area, and areas adjacent to the lead dust control work area:
  - 1. Surfaces within the Lead Dust Control Work Area: In each area where the lead containing/coated materials have been disturbed, compare the post work wipe sample values with the pre work wipe sample values. If any of the sample values exceed the pre work values, clean again and schedule retesting until the lead levels are equal to or less than the pre work values or less than the HUD guidelines listed below. Any other surfaces inside the lead dust control work area that are not listed below shall be cleaned to the pre work values:
    - a. Floors: 40 micrograms of lead per square foot.
    - b. Window Sills: 250 micrograms of lead per square foot.
    - c. Window Troughs: 400 micrograms of lead per square foot.
    - d. Soil: 400 ppm in play areas and 1,200 ppm in bare soil in the remainder of the yard.
  - 2. Areas Adjacent to the Lead Dust Control Work Area: In each area

where the work has been performed, compare the post work wipe sample values with the pre work wipe sample values. If any of the sample values exceed the pre work values, the area has been contaminated by the work and cleaning is mandatory.

- a. Clean all affected surfaces and schedule retesting. If results still exceed pre work wipe sample values, clean again and schedule retesting until the following criteria is met or until the lead dust values are equal to or lower than the pre-work wipe sample values. Any affected surfaces that are not listed below shall be cleaned to pre-work levels.
  - 1) Floors: 40 micrograms of lead per square foot.
  - 2) Window Sills: 250 micrograms of lead per square foot.
  - 3) Window Troughs: 400 micrograms of lead per square foot.
  - 4) Soil: 400 ppm in play areas and 1,200 ppm in bare soil in the remainder of the yard.

### **3.06 CERTIFICATION OF CLEANING, if applicable**

- A. Schedule dust wipe testing with the Director's Representative at the site, when work area is ready for clearance testing, if applicable.
- B. The Director's Representative, at his option, will employ the services of an independent testing lab to perform clearance testing.
  1. Prior to removal of any isolation barrier, the Director's Representative will obtain a written affidavit and a final assessment report from the lab stating that the tests conform to all standards set forth by all authorities having jurisdiction, mentioned in the references.
  2. Schedule a walk-through inspection with the Director's Representative and obtain his written approval.
- C. The Director's Representative shall have final determination of an acceptable clearance level.

### **3.07 PRE-DISPOSAL TESTING**

- A. Prior to disposal, the Director, at his option, will employ the services of an independent testing lab to perform clearance testing of the removed materials for toxicity in accordance with EPA Method 1311, Toxicity Characteristic Leaching Procedure (TCLP).
  1. Test results indicating a value greater than 5 ppm lead or 5mg/L classifies the removed material as Hazardous Waste.

### **3.08 DISPOSAL OF LEAD-CONTAINING/COATED MATERIAL AND RELATED DEBRIS**

- A. Transport and dispose of lead-containing material classified as Hazardous Waste in accordance with the standards referenced in Part 1 of this Section.
- B. Transport and dispose of lead-containing material classified as Non- Hazardous Waste in accordance with the standards referenced in Part 1 of this Section.

### **3.09 RESTORATION**

- A. Remove temporary decontamination facilities and restore area designated for these facilities to its original condition or better.
- B. Where existing construction is damaged or contaminated during the course of performing this project, restore area to its condition or better.

**END OF SECTION**

## **SECTION 079200**

### **JOINT SEALERS**

#### **PART 1 GENERAL**

##### **1.01 SUBMITTALS**

- A. Product Data: Catalog sheets, specifications, and installation instructions for each product specified except miscellaneous materials.

##### **1.02 PROJECT CONDITIONS**

- A. Environmental Requirements:
  - 1. Temperature: Unless otherwise approved or recommended in writing by the sealant manufacturer, do not install sealants at temperatures below 40 degrees F or above 85 degrees F for non silicone sealants and below minus 20 degrees F or above 125 degrees F for silicone sealants.
  - 2. Humidity and Moisture: Do not install the Work of this section under conditions that are detrimental to the application, curing, and performance of the materials.
  - 3. Ventilation: Provide sufficient ventilation wherever sealants, primers, and other similar materials are installed in enclosed spaces. Follow manufacturer's recommendations.
- B. Protection:
  - 1. Protect all surfaces adjacent to sealants with non-staining removable tape or other approved covering to prevent soiling or staining.
  - 2. Protect all other surfaces in the Work area with tarps, plastic sheets, or other approved coverings to prevent defacement from droppings.

#### **PART 2 PRODUCTS**

##### **2.01 SEALANTS**

- A. Type 1 Sealant: One-part, low-modulus silicone sealant: Dow Corning 795, Pecora 864, Tremco Incorporated Spectrem 2.
- B. Type 1D Sealant: One-part, mildew resistant silicone sealant; Dow Corning 786, Dow Corning Tub and Ceramic, Pecora 898 Sanitary Silicone, General Electric Sanitary SCS1700, or Bostik Silicone Rubber Bathroom Caulk.
- C. Sealant Colors: For exposed materials provide color as indicated or, if not indicated, as selected by the Director from manufacturer's standard colors. For concealed materials, provide the natural color which has the best overall performance characteristics.

##### **2.02 JOINT FILLERS**

- D. Expanded Polyethylene Joint Filler: Flexible, compressible, closed-cell polyethylene of not less than 10 psi compression deflection (25 percent).

## **2.03 MISCELLANEOUS MATERIALS**

- A. Joint Primer/Sealer/Conditioner: As recommended by the sealant manufacturer for the particular joint surface materials and conditions.
- B. Backer Rod: Compressible rod stock of expanded, extruded polyethylene.
- C. Bond Breaker Tape: Polyethylene or other plastic tape as recommended by the sealant manufacturer; non-bonding to sealant; self adhesive where applicable.
- D. Cleaning Solvents: Oil free solvents as recommended by the sealant manufacturer. Do not use re-claimed solvents.
- E. Masking Tape: Removable paper or fiber tape, self-adhesive, non-staining.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Examine all joint surfaces for conditions that may be detrimental to the performance of the completed Work. Do not proceed until satisfactory corrections have been made.

### **3.02 PREPARATION**

- A. Clean joint surfaces immediately before installation of sealant and other materials specified in this Section.
  - 1. Remove all loose materials, dirt, dust, rust, oils and other foreign matter that will impair the performance of materials installed under this Section.
  - 2. Remove lacquers, protective coatings and similar materials from joint faces with manufacturer's recommended solvents.
  - 3. Do not limit cleaning of joint surfaces to solvent wiping. Use methods such as grinding, acid etching or other approved and manufacturer's recommended means, if required, to clean the joint surfaces, assuring that the sealant materials will obtain positive and permanent adhesion.
- B. Set joint fillers at proper depth and position as required for installation of bond breakers, backer rods, and sealants. Do not leave voids or gaps between the ends of joint filler units.

### **3.03 SEALANT INSTALLATION**

- A. Except as shown or specified otherwise, install sealants in accordance with the manufacturer's printed instructions.

- B. Install sealants with ratchet hand gun or other approved mechanical gun. Where gun application is impractical, install sealant by knife or by pouring as applicable.
- C. Finishing: Tool all vertical, non-sag sealants so as to compress the sealant, eliminating all air voids and providing a neat smoothly finished joint. Provide slightly concave joint surface, unless otherwise indicated or recommended by the manufacturer.
  - 1. Use tool wetting agents as recommended by the sealant manufacturer.

#### **3.04 CLEANING**

- A. Immediately remove misapplied sealant and droppings from metal surfaces with solvents and wiping cloths. On other materials, remove misapplied sealant and droppings by methods and materials recommended in writing by the manufacturer of the sealant material.
- B. After sealants are applied and before skin begins to form on sealant, remove all masking and other protection and clean up remaining defacement caused by the Work.

**END OF SECTION**

## SECTION 099101

### CONSTRUCTION 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. 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.
- B. Finish Paint Type Samples: Two finish paint samples applied over recommended primers for each substrate to be painted.
  - 1. Samples shall be in the designated color and specified ASTM D 523 reflectance.
  - 2. Label each sample with the following information:
    - a. Project number and Painting Schedule designation describing substrates and locations represented by the sample.

- b. Finish paint and primer manufacturer, product names and numbers, finish paint color and reflectance.
  - 3. Leave a 1 inch wide exposed strip of unpainted substrate and each coat of primer and finish paint.
  - 4. Sample Sizes:
    - a. Concrete and Concrete Masonry Unit Substrates: 4 inch square blocks.
- 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.

### **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.

## **PART 2 PRODUCTS**

### **2.01 PAINT MANUFACTURERS**

- A. Where noted, the following finish paint manufacturers produce the paint types specified.
  1. Benjamin Moore and Co., 51 Chestnut Ridge Rd., Montvale, NJ 07645, (201) 573-9600.
  2. PPG Architectural Finishes, One PPG Plaza, Pittsburgh, PA 15272, (800) 441-9695.
  3. Sherwin-Williams Co., Cleveland, OH 44101, (800) 321-8194.

### **2.02 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. Interior Finish Paint Types:
  1. Paint Type IAL-4: Interior Acrylic Latex, Gloss Enamel.
    - a. Solids by Weight: 40.0 percent.
    - b. Solids by Volume: 32.0 percent.
    - c. Solvent: Water.
    - d. Vehicle: Vinyl acrylic resin.
    - e. Weight Per Gallon: 10.0 lbs.
    - f. Wet Film Thickness: 3.4 mils.

- g. Dry Film Thickness: 1.2 mils.
- C. Colors: Provide paint colors either 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.

### **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 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:
3. Concrete Masonry Units:
    - a. Allow two months for mortar joints to dry before painting.
    - b. Remove severe laitance, efflorescence, dirt, grease, slurry, chalk deposits and other surface contaminants using a low-pressure power wash. Use mildewcide solution if mildew is present.
    - c. Remove less severe surface contaminants and contaminant residues by dampening surface with water and scrubbing with a 10 percent solution of muriatic acid.
- 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 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.
- B. Install approved paints where specified, or shown on the drawings, and to match approved field examples.
1. Paint 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 shall be the same for different application methods and substrates.
- C. Paint Type Coats To Be Applied: Unless specified otherwise by finish paint manufacturer's product data sheet, the number of coats to be applied for each paint type are as follows:
1. Paint Types 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 Types IAL: Provide mildewcide additive for wet or damp areas.
  - d. Pitted Concrete Masonry Surfaces: Use block filler as primer /sealer where allowed by finish paint manufacturer.
- D. Surfaces: Unless otherwise specified or shown on the drawings, paint surfaces as follows:
  - 1. Interior Surfaces:
    - a. Walls: Paint Type IAL-4.

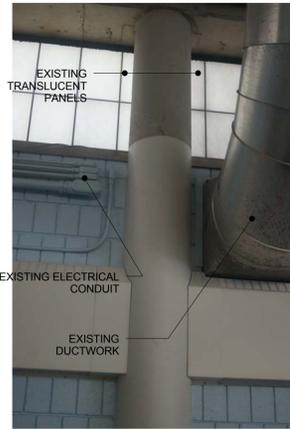
### **3.04 FIELD QUALITY CONTROL**

- 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.

### **3.05 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**



6 COLUMN 11



7 COLUMN 13



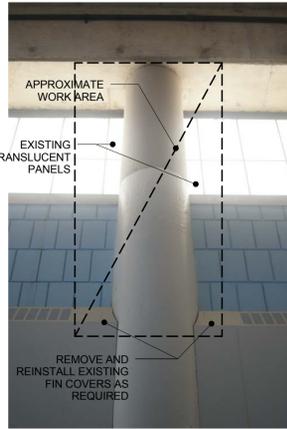
8 COLUMN 14



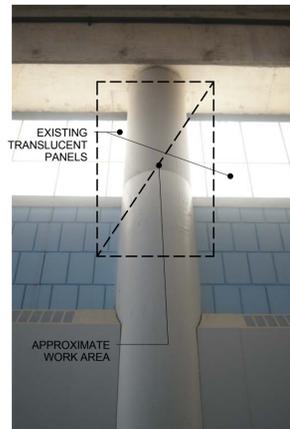
9 COLUMN 17



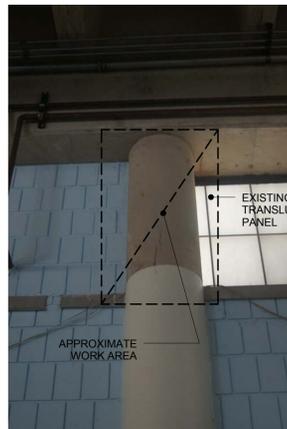
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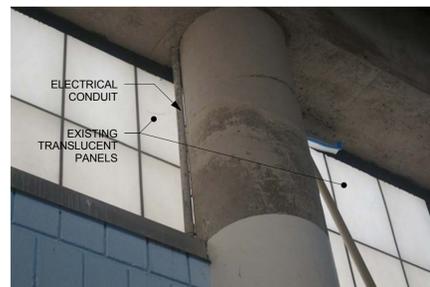
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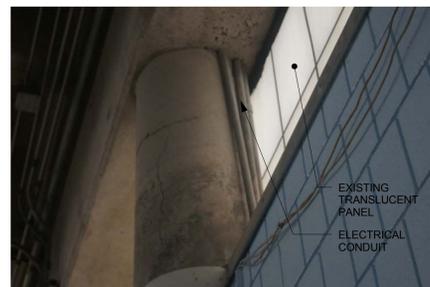
12 COLUMN 22



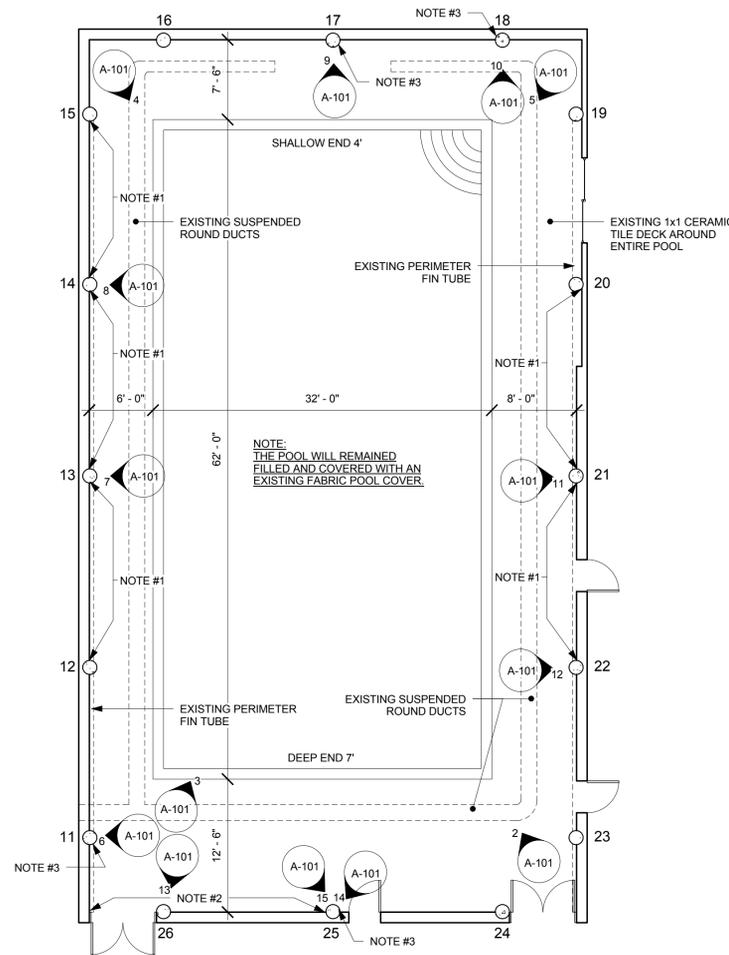
13 COLUMN 26



14 COLUMN 25 VIEW 1



15 COLUMN 25 VIEW 2



- NOTES:**
1. PAINT CMU TO MATCH EXISTING, COLUMN TO COLUMN AND TRANSLUCENT PANEL TO TOP OF FIN TUBE ENCLOSURE.
  2. PAINT CMU TO MATCH EXISTING, COLUMN TO COLUMN AND BOTTOM OF CONCRETE BEAM TO FLOOR.
  3. PAINT EXISTING COLUMN AFTER CONCRETE PATCHING AND/OR EPOXY CRACK INJECTION REPAIR.
  4. SEALANT SCHEDULE:  
• TYPE 1 AT RE-INSTALLATION OF TRANSLUCENT PANELS.  
• TYPE 1D AT INTERIOR JOINT OF CMU AND EXISTING SILL OF TRANSLUCENT PANELS.

1 POOL PLAN  
1/8" = 1'-0"

**EXISTING CONDITION PHOTO NOTES:**

1. SEE DRAWINGS S-101, S-102, AND S-103 FOR ADDITIONAL SCOPE OF WORK FOR STRUCTURAL MODIFICATIONS.
2. INTERIOR AND EXTERIOR SEALANT AT TRANSLUCENT PANELS IS ASSUMED TO BE ASBESTOS CONTAINING.
3. ALL PAINTED SURFACES ARE ASSUMED TO BE LEAD CONTAINING.



2 OVERALL PICTURE 1



3 OVERALL PICTURE 2



4 OVERALL PICTURE 3



5 OVERALL PICTURE 4



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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:

**CONSTRUCTION**

TITLE: Reinforce Existing Waffle Roof  
Keeler Building No. 77

LOCATION: Greater Binghamton Health Center  
425 Robinson Street  
Binghamton, NY 13904

CLIENT: NYS Office of Mental Health

MARK:	DATE:	DESCRIPTION:
	5/23/2012	Addendum #3

PROJECT NUMBER: M2989-C

CHECKED BY: GG

DRAWN BY: GLM

FIELD CHECK:

APPROVED:

SHEET TITLE:

POOL PLAN AND EXISTING  
CONDITION PHOTOS

DRAWING NUMBER:

**A-101**