



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. 1 TO PROJECT NO. M2994**

**CONSTRUCTION WORK  
REPLACE ROOF, STOREHOUSE – BUILDING 28  
BEDFORD HILLS CORRECTIONAL FACILITY  
247 HARRIS ROAD  
BEDFORD HILLS, NEW YORK**

May 3, 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.

**SPECIFICATIONS**

1. SECTION 011000 SUMMARY OF THE WORK: Add the following paragraphs to Part 1.06 Contractor Use of Premises to this Section.
  - K. Routes of ingress and egress within the building to the location of the Work shall be as directed by the Director's Representative.
  - L. Furniture and portable equipment which interferes with the execution of the Work will be removed and reset by Facility personnel.
2. SECTION 092236 FURRING AND LATHING: Add the attached Section (pages 092236-1 thru 092236-3) to the Project Manual.
3. SECTION 092300 PLASTERING: Add the attached Section (pages 092300-1 thru 092300-6) to the Project Manual.

**DRAWINGS**

4. Drawing A-101, Detail 12: currently shows coverboard under the EPDM: change to provide 4 inches of nailable insulation in lieu of the 2 layers of insulation shown.
5. Addendum Drawing: Drawing AD-1 (Plaster Repair Work-Interior of Bldg 28) dated May 2, 2012 accompanies this Addendum and forms part of the Contract Documents.

**END OF ADDENDUM**

James Dirolf, P.E.  
Director of Design

## SECTION 092236

### FURRING AND LATHING

#### PART 1 GENERAL

##### 1.01 GENERAL

- A. The work covers plaster repairs at the interiors of the Storehouse Bldg 28..

##### 1.02 REFERENCES

- A. Reference Standard: Comply with applicable provisions of ASTM C 841, unless otherwise indicated.

##### 1.03 DEFINITIONS

- A. Gages:
  - 1. Sheet Steel: US Standard.
  - 2. Steel Wire: US Steel Wire Gage.
- B. Galvanizing: Hot dip process, unless otherwise indicated.

##### 1.04 SUBMITTALS

- A. Product Data: Specifications and installation instructions for the following:
  - 1. Metal Lath: Each type specified.
  - 2. Corner and Casing Beads.
- B. Samples:
  - 1. Lath: 6 inch square pieces, each type specified.
  - 2. Attachments and Fasteners: Full size or 12 inch long pieces, each item specified, except for the following:
    - a. Expansion Anchors.
    - b. Bolts.
    - c. Clips.
    - d. Tie Wire and Lacing Wire.
    - e. Nails and Staples.
  - 4. Accessories: 12 inch long pieces, each item specified, except fasteners for beads and screeds, and reinforcement.

##### 1.05 STORAGE

- A. Protect metal items against distortion and rusting.
- B. Protect gypsum material against distortion and moisture.

##### 1.06 PROJECT CONDITIONS

- A. Sequencing: Coordinate furring and lathing with adjoining Work.
  - 1. Coordinate delivery of items to be cast in poured concrete, to avoid delay.

## **PART 2 PRODUCTS**

### **2.01 MATERIALS**

- A. Lath Types:
  - 1. Metal Lath: Expanded metal lath fabricated from copper-bearing steel sheet.
    - a. Type C Metal Lath: Diamond mesh, 3.4 lb per sq yd, fabricated from galvanized steel.
  
- B. Attachments and Fasteners:
  - 1. Inserts: Hohmann and Barnard's No. HD Threaded Insert for 1/2 inch diameter bolt.
  - 2. Clips: Galvanized steel wire or galvanized sheet steel, designed to attach furring members to supports or other members.
  - 3. Lacing Wire for Attaching Metal Lath: Type 302 stainless steel, 0.0475 inch diameter.
  
- C. Accessories:
  - 1. Corner Beads: Metal bead with expanded metal flanges (each) not less than 2-1/2 inches wide.
    - a. 26 gage galvanized steel.
    - b. Standard small-nose bead.
    - c. Bullnose bead, 3/4 inch radius.
  - 2. Casing Beads: Metal bead with expanded metal flange not less than 3 inches wide.
    - a. 24 gage galvanized steel.
    - b. Modified or semi-square edge where plaster abuts dissimilar material.
    - c. Quarter round edge at perimeter of openings.
    - d. Square edge at perimeter of openings.
    - e. Modified or semi-square edge at perimeter of openings.
  - 3. Reinforcement: Diamond mesh expanded metal lath fabricated from copper-bearing steel sheet, 2.5 lb per sq yd, black asphaltum paint finish.
    - a. Internal Corner Reinforcing: 6 inches wide, bent to form 3 inch legs.
    - b. Strip Reinforcing: Self-furring type, 6 inches wide.
  
- D. Miscellaneous Materials:
  - 1. Cold Galvanizing Compound: Single component compound giving 93 percent pure zinc in the dried film, and meeting the requirements of DOD-P-21035A (NAVY).

## **PART 3 EXECUTION**

### **3.01 INSTALLATION**

- A. General:

1. Install Work of this section in accordance with the provisions of ASTM C 841, except as otherwise indicated.
  2. Do not bridge expansion joints with grillage (runner and furring bars), and do not bridge either expansion or control joints with lathing.
  3. Place Type B metal lath with the ribs against the supports.
- B. Lathing: Apply lath to form true surfaces, free from sags and buckles, and secure to furring or directly to supporting structure as indicated. Apply lath with the long dimension of sheets at right angles to the direction of bearings.
1. Metal Lath:
    - a. Laps: Lap sides of sheets not less than 1/2 inch, nesting ribs if any. Lap ends of sheets not less than one inch, and locate end laps over bearings.
    - b. Reinforcement for Internal Corners: Reinforce internal angles of lathed surfaces and intersections of lathed surfaces with masonry (to be plastered) with continuous corner reinforcing except at junctions of load bearing and non-load bearing elements.
    - c. Fastening: Secure metal lath to each furring bar with lacing wire, and nail to each wood bearing, on not exceeding 6 inch centers. Fasten side laps together with lacing wire midway between bearings, and fasten terminating side edge. Secure reinforcement to other lathing with lacing wire, and to masonry with galvanized nails, on not exceeding 6 inch centers. Twist ends of wire ties together, cut off 1/2 inch from twist, and bend ends back against the lath.
- C. Miscellaneous Furring and Lathing:
1. On areas to be plastered, lath over masonry surfaces, close chases, reinforce joints between dissimilar materials (except at control and expansion joints), and install other furring and lathing as required to complete the plastering. Install reinforcement where indicated.
- D. Accessories:
1. General: Set accessories in designed location, flush with finished plaster line, true to line and level or plumb. Align joints with concealed splices and tie plates. Use shims where necessary. Securely fasten in place without dependence upon the plastering. Beads and screeds shall be in one piece where height or length of straight run does not exceed 10 feet.
  2. Corner Beads: Install continuous corner beads at all external corners of plaster, except where corners are rounded or covered by trim. Space fasteners not more than 12 inches on center on both sides of bead.
  3. Casing Beads: Unless otherwise indicated, install continuous casing beads to terminate plaster at head and jambs of doors and windows, around the perimeter of suspended ceilings, at each side of expansion joints and at internal corner junctions of load bearing and non-load bearing elements. Space fasteners not more than 9 inches on center.

**END OF SECTION**

## **SECTION 092300**

### **PLASTERING**

#### **PART 1 GENERAL**

##### **1.01 RELATED WORK SPECIFIED ELSEWHERE**

- A. Furring and Lathing: Section 092236.

##### **1.02 DESCRIPTION OF PLASTER SYSTEMS**

- A. Type 4: Lime-Portland cement plaster consisting of scratch coat, brown coat, and finish coat.

##### **1.03 SUBMITTALS**

- A. Product Data: Manufacturer's name and brand, material type, specifications, and application instructions for the following:
  - 1. Plaster Type(s) specified.
  - 2. Bonding Compound.
  - 3. Accessories, except fasteners.
- B. Quality Control Submittals:
  - 1. Sand: Name and location of source, and N.Y.S. Department of Transportation Test Number.

##### **1.04 QUALITY ASSURANCE**

- A. Regulatory Requirements: Do not use asbestos bearing materials and do not add asbestos to plaster mixes.
- B. Allowable Tolerances: Maximum deviation from true plane shall be 1/8" in 10 ft. as measured by a straight-edge placed at any location on surface.
- C. Example of Work:
  - 1. Construct a 3 ft. x 5 ft. sample panel for each type of plaster, showing color, texture, and workmanship.
  - 2. Do not proceed with plaster application until sample panel has been approved by the Director's Representative.
  - 3. Maintain sample panel on site for comparison purposes until work of this Section has been finished and approved.
- D. Ready-mixed plaster mixes are subject to the approval of the Director.
  - 1. Ready-mixed gypsum plaster mixes shall conform to the standards and requirements established by the Gypsum Association for materials and packaging.

##### **1.05 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver manufactured materials in original sealed containers, with manufacturer's label intact and legible.
- B. Keep cement, gypsum and lime dry, stored off ground, under cover.
- C. Remove wet, lumpy, and hardened materials from the site.

## **1.06 PROJECT CONDITIONS**

- A. Environmental Requirements:
  - 1. Do not use frozen materials in plaster mixes.
  - 2. Do not apply plaster to surfaces that are frozen or contain frost.
  - 3. Do not apply plaster when ambient temperature is less than 50 degrees F.
  - 4. If necessary, heat aggregate and water prior to mixing.
  - 5. Interior Plastering: Make arrangements thru the Director's Representative to have the required temperature maintained for a minimum of 24 hours prior to application, during application, and until plaster has cured.
  - 6. Interior Plastering: Maintain required temperature for a minimum of 24 hours prior to application, during application, and until plaster has cured.
  - 7. Exterior Plastering: Provide heated shelters when necessary. Maintain required temperature for a minimum of 24 hours prior to application, during application, and until plaster has cured.
  - 8. Small on-the-job mix adjustments recommended by the plasterer for working characteristics and drying conditions may be made with the approval of the Director's Representative.
- B. Protection:
  - 1. Protect adjacent finishes with suitable, non-staining covers.
  - 2. Protect plaster from uneven and excessive evaporation and from temperature differentials of more than 20 degrees F. until it has cured.

## **PART 2 PRODUCTS**

### **2.01 LIME-PORTLAND CEMENT PLASTER AND STUCCO MATERIALS**

- A. Portland Cement: ASTM C 150, Type I or IA.
  - 1. Color: Grey.
- B. Lime: One of the following:
  - 1. Special finishing hydrated type; ASTM C 206, Type S.
  - 2. Normal finishing hydrated type; ASTM C 206, Type N.
- C. Sand Aggregate: ASTM C 897.
  - 1. For finish coat, all sand shall pass No. 8 sieve unless otherwise required for special texture finishes.

- D. Finish Coat: Ready-mixed (factory-prepared) “stucco” finish coat, or a job mixture of lime, Portland cement and sand.
- E. Coloring Agent: Alkali resistant, sun fast, pure mineral oxides.

## **2.02 MISCELLANEOUS MATERIALS**

- A. Water: Potable, clear, and free of substances harmful to plaster.
- B. Bonding Compound: Non-oxidizing, non-crystallizing type, unaffected by reapplication of moisture; ASTM C 631.

## **2.03 ACCESSORIES**

- A. Corner Beads: Metal corner bead, with expanded metal flanges (each) not less than 2-1/2” wide.
  - 1. 26 gage galvanized steel.
  - 2. Roll formed zinc alloy.
  - 3. Standard small-nose bead.
  - 4. Bullnose bead, 3/4” radius.
- B. Casing Beads: Metal casing bead with expanded metal flange not less than 3” wide.
  - 1. 24 gage galvanized steel.
  - 2. Roll formed zinc alloy.
  - 3. Modified or semi-square edge where plaster abuts dissimilar material.
  - 4. Quarter round edge at perimeter of openings.
  - 5. Square edge at perimeter of openings.
  - 6. Modified or semi-square edge at perimeter of openings.
- D. Expanded Metal Reinforcement: Diamond mesh expanded metal lath fabricated from copper-bearing steel sheet, not less than 2.5 lbs. per sq. yd., black asphaltum paint finish.
  - 1. Internal Corner Reinforcing: 6” wide, bent to form 3” legs.
  - 2. Strip Reinforcing: Self-furring type, 6” wide.
- E. Fasteners: Corrosion resistant fasteners of the type recommended by the accessory manufacturer.

## **2.04 LIME-PORTLAND CEMENT PLASTER MIX COMPOSITION**

- A. Scratch and Brown Coats: By volume, mix 2 parts lime putty with 1 part Portland cement and 9 parts sand.
- B. Finish Coat: By volume, mix 1-1/4 parts lime putty with 1 part Portland cement and 3 parts sand.
  - 1. For color finish coat, add not more than 10% coloring agent by weight of cementitious materials (lime and Portland cement), unless otherwise recommended by the coloring agent manufacturer.

## **2.05 MIXING**

- A. General:
  - 1. Accurately proportion materials for each batch with measuring devices of known value.
  - 2. Size batches for complete use within maximum of one hour after mixing.
  - 3. Do not retemper plaster, except Keene's cement finish coat and lime putty may be retempered.
  - 4. Do not use frozen, caked, or lumpy materials. Remove such materials from the site.
  - 5. When sand is required in mix proportions, use moist loose sand.
  - 6. Withhold 10% of mixing water until mixing is almost complete. Add remainder as needed to produce necessary consistency.
  
- B. Machine Mixing:
  - 1. Unless otherwise approved by the Director's Representative, mix materials in a power mixer.
  - 2. Clean mixer of set materials before loading each new batch.
  - 3. Maintain mixer in continuous operation while adding the components. After all materials are in the machine, continue mixing for at least 2 minutes.

## **PART 3 EXECUTION**

### **3.01 PREPARATION**

- A. Remove dust, loose particles and other foreign matter which would affect bond of plaster.
  
- B. Wet absorptive bases with a fine spray or fog of clean water to produce a uniform moist condition.
  
- C. When interior concrete surfaces are smooth, dense, and not suitable for keying of the plaster coat, prepare surfaces and apply bonding compound in conformance with the manufacturer's instructions.

### **3.02 INSTALLING ACCESSORIES**

- A. Provide all accessories required for a complete finished installation.
  - 1. Set accessories plumb or level, and true to line. Use shims where necessary. Align joints with concealed splices and tie plates. Attach accessories to substrate at not more than 9" centers. Beads and screeds shall be in one piece where straight run does not exceed 10'.
  - 2. Install continuous corner beads at all external corners of plaster.
  - 3. Unless otherwise indicated, install continuous casing beads to terminate plaster at head and jambs of doors and windows and at internal corner junctions of load bearing and non-load bearing elements.
  - 4. Unless otherwise indicated, install screeds at control joints and along top of wainscots.

### 3.03 PLASTER APPLICATION

#### A. General:

1. Provide plaster thicknesses to match existing. On solid base, thickness will be measured from face of base material. On metal lath base, thickness will be measured from the back plane of metal lath.
2. Apply plaster by hand or machine, unless otherwise indicated.
3. Over metal lath, apply plaster by hand only.
4. Provide 3 coat application consisting of scratch, brown, and finish coats.
5. Finish coats shall form true, sharp lines at angles and against other items. Where plaster abuts flush trim, make a small V-joint in the finish coat at the trim.
6. Stop off plaster application only at junctions of plaster planes, at openings, or control joints.
7. Except for metal lath, apply base and finish coats to moist surfaces only.
8. Ready-Mixed Materials: Follow the manufacturer's application instructions.
9. In spaces where plastering is indicated on the Drawings, apply plaster on surfaces of reveals, soffits, pilasters, columns, and other related surfaces, except where other finish is shown.
10. Extend scratch and brown coats in back of built-in casework unless otherwise indicated. Carry finish coat a minimum of 1" past edges of built-in casework.
11. Extend all coats to the floor where vinyl and rubber base is indicated.

#### B. Scratch Coat:

1. Metal Lath Base: Apply with sufficient material to form keys through lath and fill all voids in lath. Cross scratch to form key for brown coat.
2. Solid Base: Apply material with sufficient pressure to fill all depressions in base surface and insure tight contact and complete coverage. Cross scratch to form key for brown coat.
3. Allow scratch coat to set hard, but not dry, before application of brown coat. Maintain moisture by fogging with clean water as necessary.

#### C. Brown Coat:

1. Straighten and float gypsum plaster to an even plane to allow for finish coat of uniform thickness. Let brown coat set hard. Make certain that brown coat is moist when applying finish coat.
2. Straighten and float lime-Portland cement plaster and stucco to an even plane and cross scratch lightly to form key for finish coat. Moisture cure for not less than 24 hours by fogging with clean water. Maintain moist curing until finish coat is applied.

#### D. Finish Coat:

1. Lime-Portland Cement Plaster Finish: Work material thoroughly into the basecoat. Float and fill to an even plane not less than 1/8" thick. Work with a rubber sponge float to a fine texture. Lightly trowel the surface to compress the grains of sand, producing a smooth, dense,

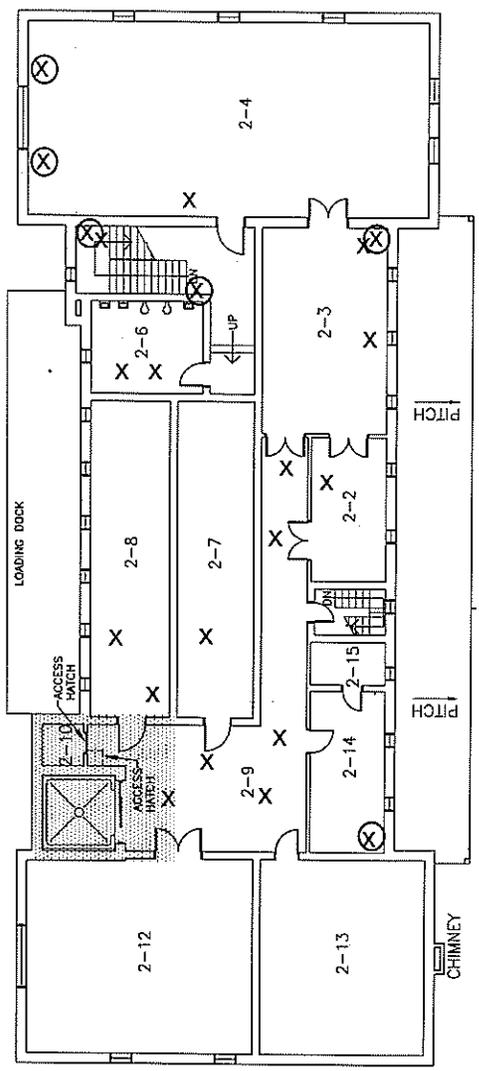
uniform surface. Moisture cure for not less than 48 hours by fogging with clean water.

2. Paint finish coat after proper curing and drying as taken place and follow paint manufacturer's instructions for painting lime-portland cement plaster finish with Type IAL-3 paint.

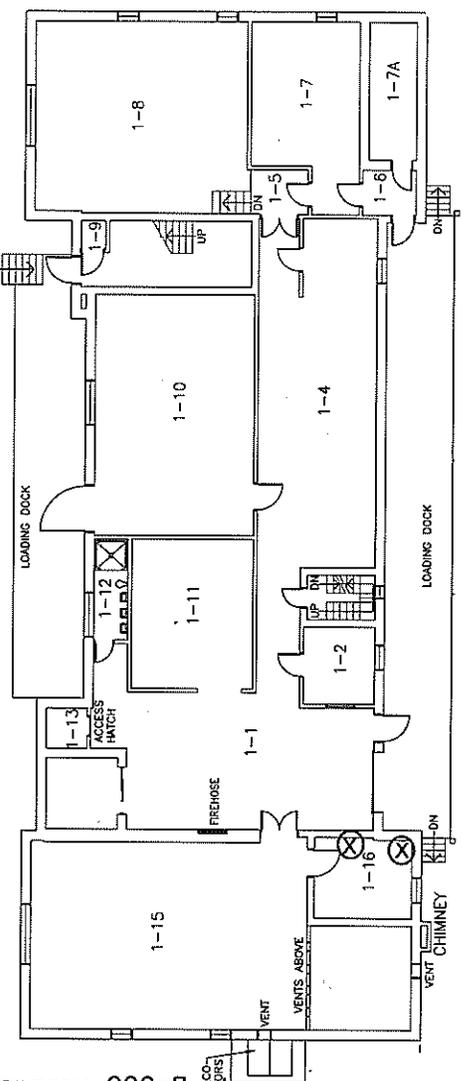
### **3.04 CLEAN-UP**

- A. Clean adjacent surfaces that have been soiled or defaced due to performing the work of this Section. Restore marred or damaged surfaces.

**END OF SECTION**



**SECOND FLOOR PLAN**



**FIRST FLOOR PLAN**

Note : Contractor to repair or replace plaster [approx. 900sf] the locations shown in the above floor diagrams per the attached specifications 092300 Plastering and 092236 Furring & Lath. Remove all damaged plaster and lath before beginning work and at the conclusion of plaster work contractor to use Type IAL-3 paint the repaired area and feather into adjacent sound plaster with color to match existing to the satisfaction of Directors Representative.

- x = plaster repair at ceiling
- ⊗ = plaster repair at wall

**CONTRACT:** Construction  
**PROJ. NO.:** M2994-C  
**DATE:** 2 May 2012  
**DRAWN:** DAB  
**APPROVED:** DAB

**SHEET TITLE:**  
Plaster repair work at interior of Bldg 28

**PROJECT:**  
Replace Roof, Storehouse Bldg 28, Bedford Hills CF, Bedford Hills, NY

WARNING: THE REPRODUCTION OF THIS MATERIAL IN ANY WAY, UNLESS DONE UNDER THE SUPERVISION OF A QUALIFIED PROFESSIONAL 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' VIOLATION.

**DWG NO.:**  
AD-1