



DESIGN AND CONSTRUCTION GROUP  
THE GOVERNOR NELSON A. ROCKEFELLER  
EMPIRE STATE PLAZA  
ALBANY, NY 12242

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**ADDENDUM NO. 2 TO PROJECT NO. 45017**

**CONSTRUCTION WORK, HVAC WORK, ELECTRIC WORK  
PROVIDE BAR SCREEN, BUILDING NO. 192  
WYOMING CORRECTIONAL FACILITY  
3203 DUNBAR ROAD  
ATTICA, NY**

February 19, 2016

**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. C - CONTRACT – SECTION 331111 DUCTILE IRON PIPE: Add the attached Section (pages 331111 – 1 thru 331111 – 4) to the Project Manual.
2. C - Contract – Page 333101 – 1, Article 2.01, Add the Following Paragraph:  
“B. Rubber and Steel Joints (V-1).”.

**DRAWINGS**

1. C – CONTRACT – Drawing No. C- 102:
  - a. Plan and Profile, Change “12” RCP” to “12” PVC”.
2. E - CONTRACT – Drawing No. E-101:
  - a. KEY NOTES Column, Add the Following Note:  
“21. Receptacles to be: Appleton #EFS175-2023 or approved equivalent. Switches to be: Appleton #EDS175-F1 or approved equivalent.”.

**END OF ADDENDUM**

Margaret F. Larkin  
Executive Director  
Design and Construction

**SECTION 331111**  
**DUCTILE IRON PIPE**

**PART 1 GENERAL**

**1.01 RELATED WORK SPECIFIED ELSEWHERE**

- A. Earthwork: Section 310000.
- B. Water Utility Distribution Valves: Section 331216.

**1.02 SUBMITTALS**

- A. Product Data: Manufacturer's specifications including dimensions and coatings.
- B. Quality Control Submittals: Statement of compliance with ANSI/AWWA Specifications.

**PART 2 PRODUCTS**

**2.01 ACCEPTABLE MANUFACTURERS**

- A. U.S. Pipe  
1101 East Pearl Street  
Burlington, New Jersey 08016  
(609)387-6122
- B. American Pipe  
1614-0 Union Valley Road, Suite 304  
West Milford, New Jersey 07480  
(973)853-4288
- C. EBAA Iron Sales, Inc.  
P.O. Box 857  
Eastland, TX 76448  
(800) 433-1716  
www.ebaa.com

**2.02 DUCTILE IRON PIPE**

- A. Centrifugally cast, in accordance with ANSI/AWWA C151/A21.51.
  - 1. Working Pressure: 50 psi.
  - 2. Thickness Class: 52.

3. Restrained joints: Boltless integral restraining system rated for a working pressure of 350 psi in accordance with the performance requirements of ANSI/AWWA C111/A21.1.
    - a. Field LOK 350 by U.S. Pipe
    - b. Flex-Ring by American Pipe
  4. Laying Lengths: 18 or 20 feet.
- B. Coating and Lining:
1. Outside Coating: Bituminous enamel, minimum thickness 1 mil.
  2. Inside Lining: Cement mortar; ANSI/AWWA C104/A21.4.

### **2.03 FITTINGS**

- A. Ductile Iron (3 Inch – 48 Inches): ANSI/AWWA C110/A21.10.
- B. Joints: Match pipe furnished.
- C. Coating and Lining:
  1. Outside Coating: Bituminous enamel, minimum thickness 1 mil.
  2. Inside Lining: Cement mortar; ANSI/AWWA C104/A21.4.

## **PART 3 EXECUTION**

### **3.01 INSPECTION**

- A. Inspect pipe and fittings prior to installation to preclude installation of defective materials.

### **3.02 INSTALLATION**

- A. General: Unless otherwise shown, or specified, install the Work of this Section in accordance with ANSI/AWWA Standard C600 and the manufacturer's printed instructions.
- B. Laying Pipe:
  1. Lay pipe to line and grade with joints close and even. Excavate adequate bell holes to facilitate joint assembly and to permit a uniform bearing on undisturbed earth for the pipe barrel. Unless otherwise noted minimum depth of pipe shall be 4'-6" measured from the top of the pipe to the finished or existing grade, whichever is lower.
  2. Keep the trench free from water. Do not lay or test pipe in a wet trench.
  3. Lay water pipe on a continuously rising grade from low points to high points at service lines, hydrants or air valves.
  4. Construct concrete thrust blocks behind bends, tees, caps and plugs, as shown on the drawings. Cast concrete against undisturbed earth and place support so it will not interfere with making joints.
  5. Use clamps, tie-rods, lugged pipe, etc., for anchorage when required and as approved.

- C. Mechanical Joints: Conform strictly to the manufacturer's instructions with particular reference to gland alignment and the tightening of the bolts.
- D. Cutting: Cut pipe at right angles to the axis with sharp tools. Prepare ends for proper connections. Do not lay cut pipe within three lengths of a bend or the end of a line without written approval.
- E. Protecting Pipe:
  - 1. Keep pipe clean from all sediment, debris, packing material and other foreign material.
  - 2. Close all open ends of pipes and fittings securely with removable plugs at end of each work day, during storms, and when the Work is left at any time.

### 3.03 PRESSURE AND LEAKAGE TESTS

- A. Before backfilling, fill pipe with water to expel all air. Conduct as directed concurrent pressure and leakage tests for two hours at 1-1/2 times the specified working pressure. Maximum variation in test pressures shall not exceed plus or minus 5 psi.
  - 1. Test Procedures: ANSI/AWWA C600, Section 5.
- B. Pipe installations will be rejected when the additional water required to maintain pressure during the test period, exceeds the allowable leakage in the following formula.

$$L = \frac{SD \times \text{the square root of } P}{148,000}$$

in which:

L = allowable leakage in gallons per hour

S = length of pipe line tested, in feet

D = nominal diameter of pipe, in inches

P = average test pressure during the leakage test, psi (gage)

- C. All pressure and leakage tests shall be conducted in the presence of the Director's Representative.
- D. Locate and repair or replace all pipe and fittings showing visible leaks. Repeat Pressure and Leakage Tests as specified.

### 3.04 DISINFECTION

- A. Disinfect pipe and fittings in accordance with Section 331300 after completion of pressure and leakage tests.

### **3.05 CONNECTIONS**

- A. When other connecting pipe or other connecting structures have not yet been installed, lay pipe to a point where directed and plug or cap the end. Identify the terminal point with a stake extending above ground, marked to indicate size and service. Provide temporary thrust restraint as directed.

**END OF SECTION**