

## SECTION 031515–CONCRETE ACCESSORIES FOR STEAM UTILITY DISTRIBUTION

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification sections, apply to this section.

#### 1.2 SUMMARY

- A. This section includes the furnishing and installation of concrete accessories.
- B. Related sections include the following:
  - 1. Division 03 Section "Concrete Formwork for Steam Utility Distribution."
  - 2. Division 03 Section "Concrete Reinforcement for Steam Utility Distribution."
  - 3. Division 03 Section "Cast-In-Place Concrete for Steam Utility Distribution."
  - 4. Respective Systems Section for Mechanical, Process and Electrical Anchorage Devices.

#### 1.3 REFERENCES

- A. Except as herein specified or as indicated on the Drawings, the work of this section shall comply with ASTM Standard Specifications: D1751 - Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types).

### PART 2 - PRODUCTS

#### 2.1 MATERIALS

- A. Waterstops:
  - 1. W. R. Meadows, Inc., Elgin, Illinois; Vinylex Corporation, Knoxville, Tennessee; Greenstreak, St. Louis, Missouri; or equal.
  - 2. Multi-ribbed, 4-inch, polyvinylchloride.
- B. Inserts for general trades:
  - 1. Halfen Anchoring Systems; Heckman Building Products; Hohmann & Barnard, Inc.; or equal.
  - 2. Malleable iron and steel, strength as required.
  - 3. Include bolts, nuts and washers.
  - 4. All steel shall be galvanized.
- C. Waterproof bead:
  - 1. Waterstop RX by CETCO; or equal.

2. 3/4-inch x 3/8-inch.
3. Provide at joints marked WSJ on Drawings and at all other joints in slabs and walls.

**SPECIFIER: Coordinate the following with Division 05 Section "Metal Fabrications for Steam Utility Distribution." Do not specify manhole steps in 2 places.**

- D. Manhole steps:
1. Provide either cast iron or plastic.
  2. Cast iron:
    - a. Model 8509 by East Jordan Iron Works; Model R-1980-J by Neenah Foundry Company; or equal.
    - b. Minimum dimensions: 10 inches deep by 14 inches wide, 5-inch tread depth, 1-inch x 1-inch tread section with 2-inch rail height.
  3. Plastic:
    - a. PS2-PF as manufactured by M.A. Industries, Inc. Peachtree City, GA or approved equal.
    - b. Copolymer polypropylene plastic manhole steps with Grade 60 No. 4 reinforcing bar core.
    - c. Grip width: 14 inches.
    - d. Grip depth: 6 inches.
- E. Manhole Castings:
1. Manufacturers: East Jordan Iron Works (EJIW) 1320, Neenah R1582, or approved equal.
- F. Other materials: All other materials not specifically described but required for a complete and proper installation of concrete accessories shall be as selected by Contractor subject to the approval of Engineer.

## PART 3 - EXECUTION

### 3.1 INSTALLATION

- A. Install concrete accessories:
1. As indicated on the Drawings.
  2. As specified in various other sections.
  3. As necessary for the proper and complete performance of the Work.
- B. Waterstops:
1. Tie up to reinforcing steel with wire to prevent folding over during concrete placement.

2. Weld, heat, or glue together at splices and joints in accordance with manufacturer's recommendations.
- C. Waterproof bead:
1. Install in joints at last convenient time of accessibility.
  2. Apply in strict accordance with manufacturer's instructions.
- D. Piping, mechanical and electrical equipment support: Refer to Division 03 Section "Concrete Formwork for Steam Utility Distribution."

END OF SECTION 031515