

SECTION 02604 – AIR RELEASE VALVES

PART 1 – GENERAL

1.1 DESCRIPTION

- A. The WORK under this Section includes providing all labor, materials, tools and equipment necessary for furnishing and installing air release valves with appurtenances.

1.2 SUBMITTALS

- A. Air Release Valve: Catalogue cut.

PART 2 – PRODUCTS

2.1 MANHOLES

- A. The manhole shall be a storm drain, Type I shallow manhole, unless otherwise shown on the Drawings
- B. Manhole covers shall be embossed with the word “WATER” in three inch high letters.

2.2 PIPE

- A. Pipe shall be hot-dip galvanized steel conforming to ASTM A 53, Schedule 40.

2.3 FITTINGS

- A. Fittings for steel pipe shall be malleable iron threaded type with a working pressure rating of 150 psi. Material shall conform to ASTM A 47, Grade 32510.
- B. Fittings shall be hot-dip galvanized.

2.4 MISCELLANEOUS

- A. The air release valve shall be a two inch APCO 200A, or approved equal.
- B. The corporation stop shall be a Mueller H-10012 with lever handle, Ford F500 with lever handle, or approved equal.
- C. The service saddle shall be a double strap, iron, I.P. thread, Rockwell 313, or approved equal.
- D. Rigid Insulation shall be rigid board closed cell polystyrofoam material containing a flame retardant additive specifically designed for underground pipe or pavement installations, equivalent to Dow Chemical Company Styrofoam HI, and approved by the ENGINEER.
- E. Sprayed-on urethane foam insulation material applied directly to the air release manhole interior with an elastomeric coating shall have demonstrated a satisfactory performance history in underground installation and shall have the following physical properties:

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Density	2 pcf, Minimum
Compressive Strength (ASTM D 1621)	35 psi, Minimum at 5% Deflective or Yield
Water Absorption (ASTM C 177)	0.25% by Vol. Maximum
Thermal Conductivity (ASTM C 177)	$\frac{\text{Max. 0.23 BTU}}{\text{Hr. Ft.}^2 \text{ }^\circ\text{F. In. Thickness}}$

PART 3 – EXECUTION

3.1 CONSTRUCTION

- A. All construction activities shall meet the quality of WORK requirements set forth in the applicable portions of these Specifications.
- B. All piping shall be sloped to permit escape of any entrained air.
- C. After installation, the air release valve shall be subjected to field-testing and disinfection as outlined in Section 02601 – Water Pipe.
- D. A field change in water pipe profile may require changing the location of the air release valve. Refer to CBJ Standard Details.

END OF SECTION