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:
SECTION 02604 – AIR RELEASE VALVES

Density
2 pcf, Minimum

Compressive Strength
35 psi, Minimum at 5% Deflective or Yield

Water Absorption
0.25% by Vol. Maximum

Thermal Conductivity
Max. 0.23 BTU

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