M1204
****This standard supersedes BECo U/G Std. 2.10-6.25****

**PRECAST CONCRETE MANHOLE**

6’- 0”W x 10’- 0”L x 8’- 0”H INSIDE DIMENSIONS

1.0 **Scope** – This specification details the dimensions, strength, reinforcement, and appurtenances required for fabrication of precast, concrete manholes.

2.0 **General** – Vendor design and fabrication drawing shall conform to the minimum requirements of this specification and shall be signed and stamped by a Massachusetts registered professional engineer.

3.0 **Design Notes**

   3.1 Concrete minimum strength - 5000 psi @ 28 days.
   3.2 Steel reinforcement - ASTM A615, Grade 60.
   3.3 Minimum Steel Cover – 1inch.
   3.4 Design Loading - AASHTO HS20-44.
   3.5 Design Specifications – ACI 318 & AASHTO Load Factor Design Method.
   3.6 Manufacturer’s name and year of fabrication shall be stenciled on vertical wall of access chimney.
   3.7 All Termaducts to have bell ends flush with the inside wall.
   3.8 Termaducts may be specified in lieu of knockouts at the direction of NSTAR.
   3.9 Construction Joint – Sealed with 1” diameter Butyl Rubber or approved equal.

4.0 **Bill of Materials**

   4.1 The catalog ID for the precast manhole is “16240”.

   4.2 The catalog ID”s for the “3” & “4” position stanchions are “1752” & “1753”. Stanchions shall be manufactured by J. S. Products, Whitman, MA (or approved equal).

   4.3 The catalog ID for the bonding frame is “1229”. Bonding frame consist of 1 - #4/0 stainless steel ground clamp, 1 - #10 x 1-1/2” lg x 5/16” dia SS screw and 1- lead plug as supplied by Tools Unlimited Inc, Stoughton, MA (or approved equal).
4.4 The recessed pulling eye, “New PI-2”, shall be manufactured by Pennsylvania Insert Corp., Spring City, PA (or approved equal).

4.5 The sump grate shall be “Polylock Part No. 3037” as manufactured by Polylock Corp., Wallingford, CT (or approved equal).
SECTION A-A

NOTE: LONG WALLS ARE MIRROR IMAGES.
DRAWING IS NOT TO SCALE.
SECTION B-B

NOTE: SHORT WALLS ARE MIRROR IMAGES.
DRAWING IS NOT TO SCALE
DETAIL “A”

NOTE: DRAWING IS NOT TO SCALE.

Approved by: Elizabeth J. Leonard
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