**Typical Manhole Frame & Cover**

- **Brick Course to Suit**
- **Inside Surface Vertical for Safe Descent and Ascent**
- **Cone Section (See Note)**
- **See DWG. No. 908-A for Step Detail**
- **Riser Sections**
- **Inlet & Outlet Precast at Any Angle (See Plan View)**
- **Dia. of Holes to Suit**
- **Base Riser Section**

**Manhole Assembly**

- **Area of Circumferential Steel (Side Walls)**
  - .12 sq. in. per lin. ft.
- **Spread Footing (Monolithic)**
- **5'0" Max**
- **12"**
- **8"**
- **48"**
- **6"**
- **12"**
- **6"**
- **12'0" Max**
- **5'10"**
- **4"**
- **12'0" Max**

**Typical 48" Dia Manhole with Top Slab**

- **Invert to Be Built by Contractor (Typ)**
- **Outlet Angle as Required**
- **Opening Size to Suit**
- **2-#4 Bars at 90°**
- **#4 @ 6" O.C.E.W.**
- **Area of Circumferential Steel (Side Walls)**
  - .12 sq. in. per lin. ft.

**Concrete to Test 4000 PSI @ 28 Days**

**NOTES:**
- In Conformance with ASTM C-476 Design for H2O Loading

**Approx. Weights:**
- **Base = 2800 LBS**
- **Risers = 875 LBS/FT**
- **Top Slab = 1575 LBS**
- **36" High Cone = 2470 LBS**

<table>
<thead>
<tr>
<th>Cone Dimensions</th>
<th>Cone Opening</th>
<th>Height</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>24&quot;</td>
<td>36&quot;</td>
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<tr>
<td></td>
<td>30&quot;</td>
<td>36&quot;</td>
</tr>
</tbody>
</table>

**Butyl Rubber Federal Specification SS-S-00210 (GSA-FSS)**

**Joint Detail**

**Precast Concrete Sales Co.**
123 Route 303, Valley Cottage, N.Y. 10989
Tel. (845) 268-4949 - Fax (845) 268-4376

**Cont.**

**Job**

**4"-0" Dia. Concrete Manhole with Spread Footing - Typical Assembly**

**Date**

**Drawn By**

**Drawing No.**

1/16 Classic Design 3-4E