CMP WATER CONTROL STRUCTURE

Channel
1/2" Rod
48" CMP Half Riser

Concrete Base To Be Poured In Place

2"x 6" Treated Lumber Stop Logs
5'- 0' Sq

PLAN

Weld Channel To CMP By Continuous Weld
Channel C3x5
1/2" Rod Welded To Channel
Fill Slope
1/8 Typ

Notch Concrete Approximately 1 Inch For Stop Logs
4' Stub Length

SIDE ELEVATION

4'- 6'
6'
#4 Bars At 12" C.C.

DOWNSTREAM ELEVATION

3'
4'- 6'
6'
#4 Bars At 12" C.C.

REFERENCE
Project
Designed
Checked
Approved

NRCS
STANDARD Dwg. NO.
IL-594
SHEET 1 OF 2
DATE 4-29-94
# CMP Water Control Structure

## Table Showing Dimensions and Material

<table>
<thead>
<tr>
<th>Dimensions</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Nominal Length (in feet) of CMP Riser and Channels</td>
<td></td>
</tr>
<tr>
<td>Gage of Riser in inches</td>
<td></td>
</tr>
<tr>
<td>Gage of Conduit in inches</td>
<td></td>
</tr>
<tr>
<td>Ø Angle in Degrees</td>
<td></td>
</tr>
</tbody>
</table>

**Materials**

<table>
<thead>
<tr>
<th>Material Description</th>
<th>Quantity Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of #4 Reinforcing Bars 4'-6' Long</td>
<td>10</td>
</tr>
<tr>
<td>Weight of #4 Reinforcing Bars in Pounds</td>
<td>30</td>
</tr>
<tr>
<td>Volume of Concrete in Cubic Yards</td>
<td>1.0</td>
</tr>
<tr>
<td>Number of 1/2 Inch Rods 48' Long</td>
<td>1.0</td>
</tr>
<tr>
<td>Number of 2' x 6' Stop Logs (Approximate Length 48')</td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**

1. The riser height shall be limited to 5 feet.
2. The conduit diameter shall be limited to 12' thru 27'.
3. The corrugated metal riser with 4 feet conduit stub shall be fabricated from galvanized steel or aluminum. If fabricated from steel, any zinc coating damaged by welding shall be repaired as follows:
   A) All loose and cracked coating shall be removed by wire brushing and all dirt and greasy material by a suitable solvent.
   B) The damaged area shall be painted with two coats of Zinc Dust-Zinc Oxide Primer, follow by a heavy coat of Fibrated Asphalt Mastic.
4. Corrugated aluminum risers and conduits shall be separated from the reinforced concrete base by at least 2 layers of plastic tape with a total thickness of at least 24 mils or by a heavy coat of Alkali-Resistant Bituminous paint.

**Reference**

- Project
- Designed: Date
- Checked: Date
- Approved: Date