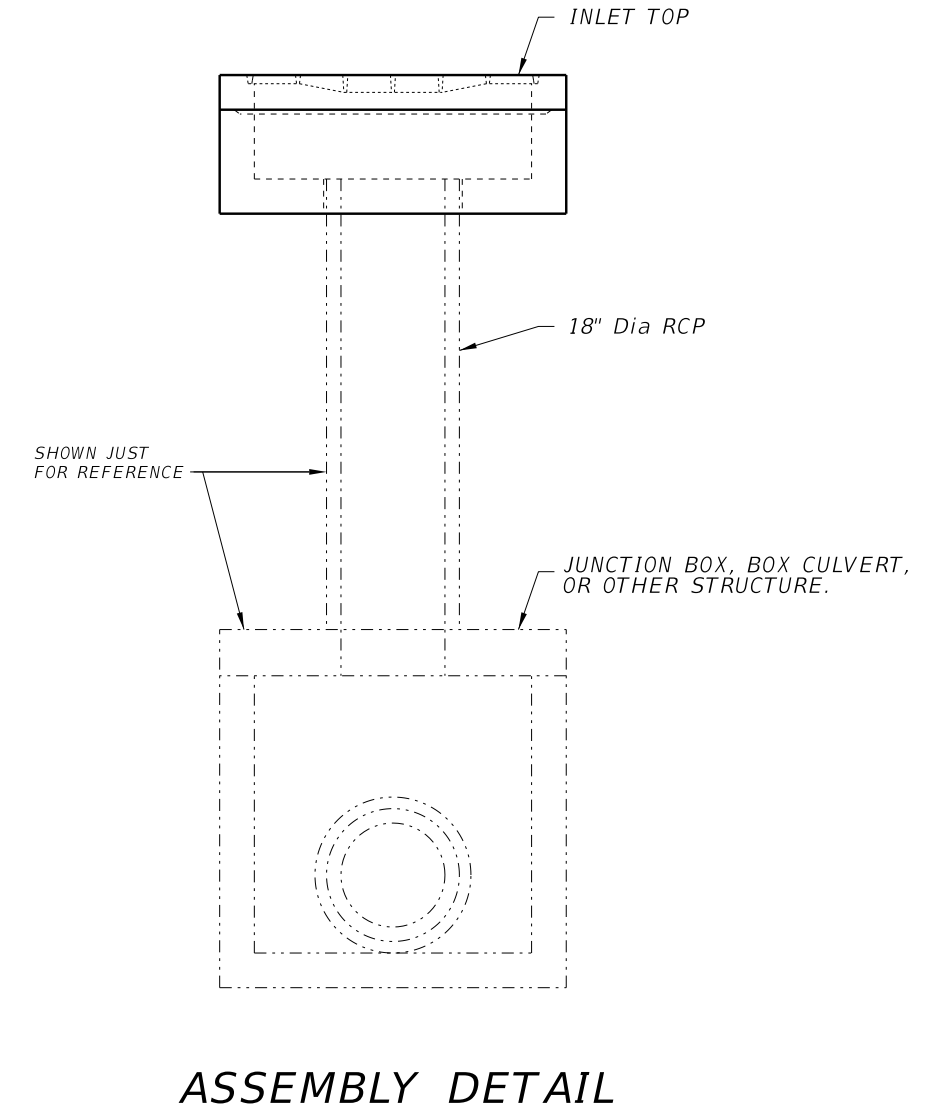
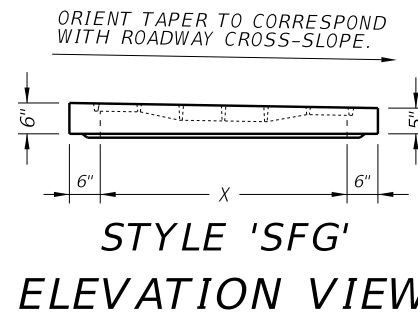
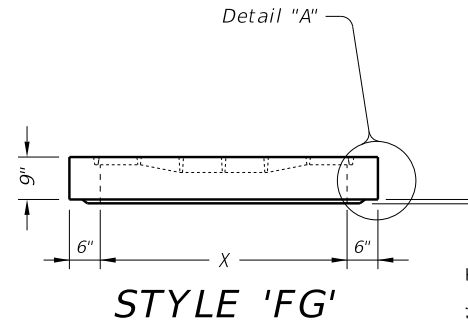
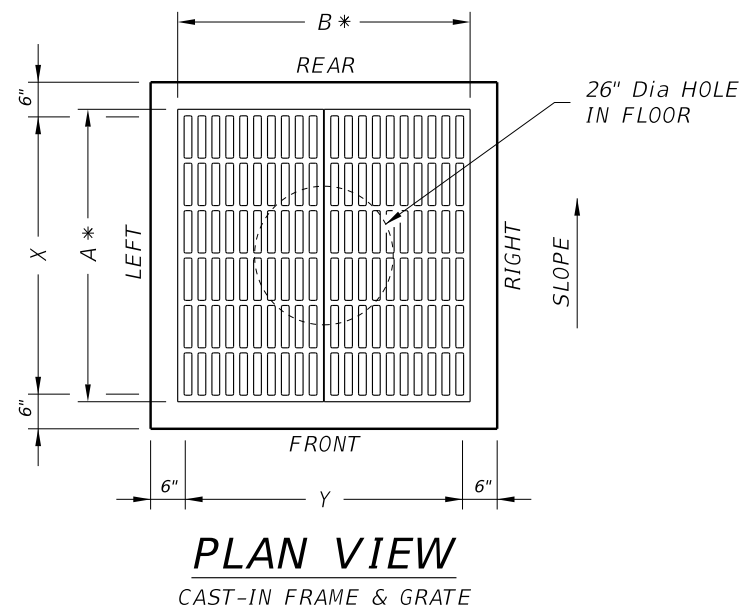
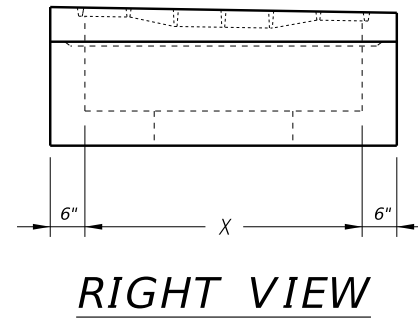
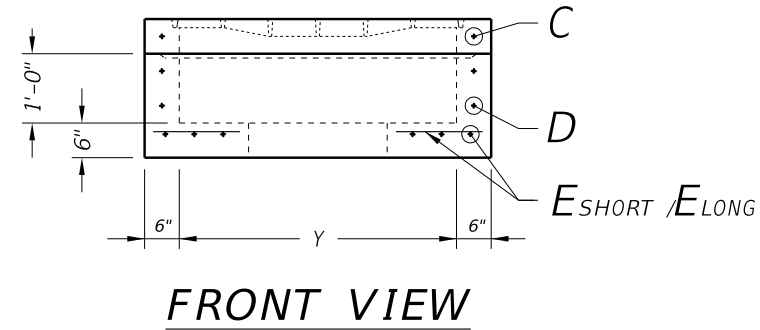
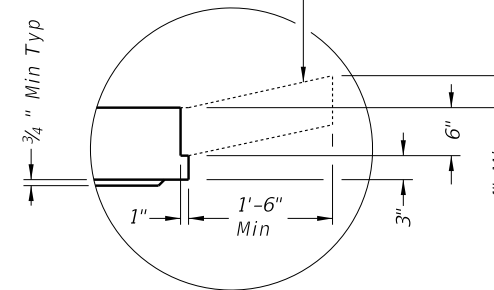


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Construct cast-in-place reinforced concrete apron, when shown elsewhere in plans. Use Class "A" concrete. Apron is subsidiary to POD. Apron is 1'-6" Min width around precast overpass drain.



**FABRICATION NOTES:**

1. Provide Class "H" concrete in accordance with Item 421 and having a minimum compressive strength of 5,000 psi.
2. Provide Grade 60 reinforcing steel or equivalent area of WWR.
3. Provide clear cover of 1 1/2" to reinforcing steel from inside surfaces. Place short span reinforcing steel closest to surface.
4. Design tongue and groove joints for full closure on both shoulders. Minimum spigot depth is 3/4".
5. Provide lifting devices in conformance with Manufacturer's recommendations.
6. Place additional diagonal #4 bars, length = Dia + 4", at 1" clear cover around opening in floor.
7. Provide cast iron standard grate, unless noted otherwise elsewhere in plans.

**INSTALLATION NOTES:**

1. Seal tongue and groove joints with preformed or bulk mastic in conformance with Manufacturer's recommendation. Tongue and groove joints may be grouted no more than 1" between each section, or 1/2 the joint depth, whichever is greater.
2. Do not grout rubber gasket joints without Manufacturer's recommendation.
3. Orient long dimension of grate slots perpendicular to direction of traffic, unless noted otherwise on plans.

**GENERAL NOTES:**

1. Designed according to ASTM C913.
2. Precast Overpass Drain may connect into junction box, box culvert, or other new or existing structure. See details for connecting 18" Dia RCP into structure elsewhere.
3. Payment for inlet is per Item 465, "Junction Boxes, Manholes, and Inlets" by type, style, and size.

| Style | Size (X x Y) | A x B* | C                        | D                        | E Short                  | E Long                   |
|-------|--------------|--------|--------------------------|--------------------------|--------------------------|--------------------------|
| FG    | 3'x3'        | 3'x3'  | 0.37 in <sup>2</sup> /ft | 0.18 in <sup>2</sup> /ft | 0.18 in <sup>2</sup> /ft | 0.18 in <sup>2</sup> /ft |
| SFG   | 3'x3'        | 3'x3'  | 0.32 in <sup>2</sup> /ft | 0.18 in <sup>2</sup> /ft | 0.18 in <sup>2</sup> /ft | 0.18 in <sup>2</sup> /ft |
| FG    | 4'x4'        | 4'x4'  | 0.41 in <sup>2</sup> /ft | 0.18 in <sup>2</sup> /ft | 0.21 in <sup>2</sup> /ft | 0.21 in <sup>2</sup> /ft |
| SFG   | 4'x4'        | 4'x4'  | 0.32 in <sup>2</sup> /ft | 0.18 in <sup>2</sup> /ft | 0.21 in <sup>2</sup> /ft | 0.21 in <sup>2</sup> /ft |
| FG    | 3'x5'        | 3'x5'  | 0.48 in <sup>2</sup> /ft | 0.18 in <sup>2</sup> /ft | 0.22 in <sup>2</sup> /ft | 0.18 in <sup>2</sup> /ft |
| SFG   | 3'x5'        | 3'x5'  | 0.32 in <sup>2</sup> /ft | 0.18 in <sup>2</sup> /ft | 0.22 in <sup>2</sup> /ft | 0.18 in <sup>2</sup> /ft |

\*Nominal frame and grate size.

HL93 LOADING



**PRECAST OVERPASS DRAIN**

**POD**

|                       |           |           |           |           |
|-----------------------|-----------|-----------|-----------|-----------|
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