PILE PAINTING DETAIL NOTES

1. The System 4, Primer, and Top Coat may be omitted whenever Concrete Document extends to within 6" from bottom of deck.

2. Hatch Markings (1-1/2" above & below top of enclosure) shall receive a SSPC SP6 Surface Preparation prior to being coated with an approved Coating Paint. Work shall be performed in accordance with the Sub-articles ISO 8501-1 of the Standard Specifications.

3. Surface Preparation and Painting for Pile and Span Beams shall be Field Applied.

PILE PAINTING DETAIL (OPTION A)

PILE PAINTING DETAIL (OPTION B)
**WATERSTOP DETAIL**

- Open joints in barrier rails to be sealed with a 3/4" x 3/4" x 3" waterstop, except as noted below.

**PART ELEVATION - BARRIER RAIL**

- Joint openings shall be three-quarters inch (3/4") in width whenever barrier rails are constructed by means other than a slip form extrusion machine.

**SPAN REINFORCEMENT DETAIL**

- Joint openings shall be three-quarters inch (3/4") in width whenever barrier rails are constructed by means other than a slip form extrusion machine.
**AASHTO TYPE GDR, CLIP ANGLE (FIXED)**

**BULB TEE TYPE GDR, CLIP ANGLE (FIXED)**

**AASHTO TYPE GDR, CLIP ANGLE (EXP.)**

**BULB TEE TYPE GDR, CLIP ANGLE (EXP.)**

**CLIP ANGLE HOLE & SLOT SIZE**

<table>
<thead>
<tr>
<th>CLIP ANGLE MILE &amp; SLOT SIZE</th>
<th>BOLT</th>
<th>ROUND</th>
<th>SLOT</th>
</tr>
</thead>
<tbody>
<tr>
<td>AB-1</td>
<td>3/8&quot;</td>
<td>3/8&quot;</td>
<td>3/8&quot;</td>
</tr>
<tr>
<td>AB-2</td>
<td>1/2&quot;</td>
<td>1/2&quot;</td>
<td>1/2&quot;</td>
</tr>
<tr>
<td>AB-3</td>
<td>5/8&quot;</td>
<td>5/8&quot;</td>
<td>5/8&quot;</td>
</tr>
</tbody>
</table>

**NOTE:** Swedge anchor bolt shall be set in 4" deep blockout or drilled or concrete-place using concrete anchors.

Remove corrugated well form prior to grouting around anchor bolts. Do not grout anchor bolts until grinders have been completely inserted, adjusted if necessary after erection, and approved by the engineer.

**ANCHOR BOLT AND WELL DETAILS**

**CONNECTION ANGLE DETAILS**

**END VIEW AASHTO TYPE GDR.**

**END VIEW BULB TEE TYPE GDR.**

**NOTE:** Threaded inserts and 3/4" x 3" cap screws with washer each are to be included in the price bid per HPS 70W girder.

Swedge bolts with two nuts and two washers and angles 6"x6"x3" shall be hot-dipped galvanized in accordance with AASHTO M-111.

NOTE: All anchor bolts and washers shall be hot-dipped galvanized in accordance with the applicable AASHTO Standard Specification.

Swedge anchor bolts shall be set in 4" deep blockout or drilled or concrete-place using concrete anchors.

Provide each anchor bolt well with a readily removable watertight cap, details to be approved by the engineer. The formwork, debris and standing water shall be removed from each well immediately prior to grouting. It is mandatory that caps be in place throughout period during which below-freezing temperatures can be expected to occur. The construction shall include that only water trapped in the well does not freeze.
26'-0" TO 30'-0" RETAINING WALL

30'-0" TO 34'-0" RETAINING WALL

TYPICAL BACKFILL FOR RETAINING WALLS ON SHEET 4 OF 4

NOTE: The retaining walls on Sheet 4 of 4 were designed based on a grouted concrete backfill with a backfill density greater than 95%. The top of the backfill is shown where necessary. The retaining wall is designed to withstand the forces acting on it, including live loads, and is intended to prevent the collapse of the structure. The backfill is necessary for the stability of the retaining wall and should be compacted to ensure its integrity.
TYPICAL SECTIONS

GENERAL NOTES

1. SHOULDER, VARIABLE WIDTH ROADWAYS AS SHOWN.

2. SPECIFICATIONS: ALABAMA DEPARTMENT OF TRANSPORTATION, CURRENT EDITION.

3. CLASS loading: AASHTO HS20-44

4. FOUNDRY CASTING: REINFORCEMENT STEEL SHALL MEET THE REQUIREMENTS OF SECTION 830 OF THE STANDARD SPECIFICATIONS.

5. COVERED.......shall conform to the requirements for covered steel per requirement section 830 of the standard specifications.

The following rebar shall be replaced with the materials listed:
- Type 5.00 or 8.10 wires x 7"-11" long spaced as follows:
- 3.5, 4.0, 4.5, 5.0
- 6.0, 8.0, 11.0, 12.0
- 16.0, 20.0, 21.0, 23.0
- The above reinforcement to conform to the requirements of AASHTO steel and notes.

6. REINFORCEMENT BARS TO BE 8.00 MIN. DIA.

7. CONCRETE, CONCRETE SHALL CONFORM TO SECTION 912 OF THE STANDARD SPECIFICATIONS. COMPRESSIVE STRENGTH SHALL BE 5,000 P.S.I.

8. ALUMINUM: ALL WELDS SHALL CONFORM TO E-8-507 AND BE GALVANIZED IN ACCORDANCE WITH AASHTO M-232.