**COMBINATION RAIL**

**TYPE C221**

**TERMINAL CONNECTION DETAILS**

1. Terminal connectors and associated hardware are to be paid for under the Item "Metal Beam Guard Fence". Attach Metal Beam Guard Fence Transitions to the bridge rail and extend along the embankment until otherwise shown in the plans.

2. Place rail offset map, with Engineer's Approval, be continued to the end of the railing.

3. Use shop splice per HSS rail section is permitted with minimum 65 percent penetration. The end may be square groove, or single vee groove. Ground smooth.

4. Increase Z for structures with overlap.

5. Place 6 additional bars #4 @ 3'-6" in length inside bars #4@6" and centered 2'-6" from end of rail when Terminal Connections are required. Field bend as needed.

6. HSS 2.375 x 0.154

7. HSS 2.275 x 0.125

8. V groove

9. Dia Hole in bottom of HSS rail (Minimum 1 hole between posts ~ Typ)

**POST BASE PLATE PLAN**

**RAIL TURNDOWN BASE PLATE PLAN**

**INTERMEDIATE WALL JOINT DETAIL**

Provide all interior joints without slab expansion joints.

**ELEVATION SHOWING TYPICAL REINFORCING PLACEMENT**

(Shewing without raised sidewalks)

**REVISIONS**

**FILE:**

**COUNTY:**

**DIVISION:**

**HIGHWAY:**

**SECT:**

**DIST:**

**DN:**

**DATE:**

**TxDOT**

**JMH**