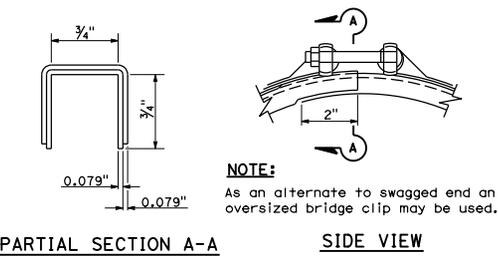
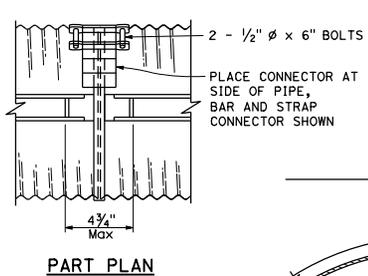


MODIFIED HUGGER BAND

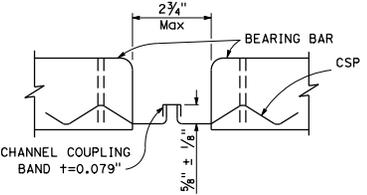


PARTIAL SECTION A-A

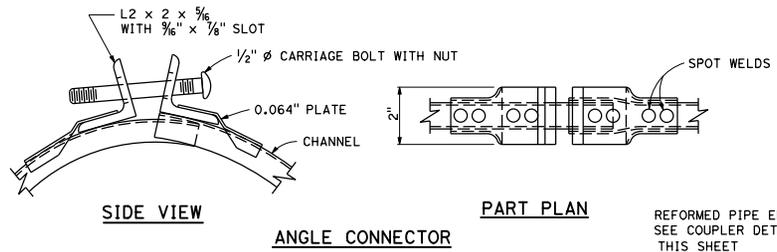
SIDE VIEW



PART PLAN



**ELEVATION
BAR & STRAP CONNECTOR**
See Standard Plan D97A

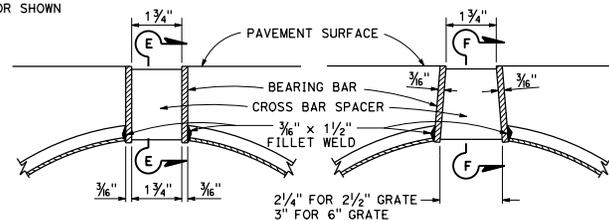


SIDE VIEW

ANGLE CONNECTOR

PART PLAN

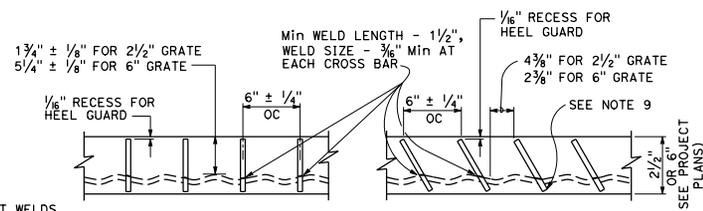
CHANNEL COUPLING BAND



RECTANGULAR SPACER

TAPERED SPACER

GRATE SLOT-SECTION

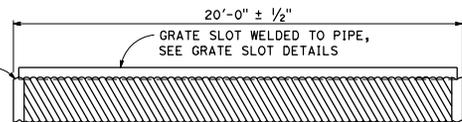


RECTANGULAR SPACER

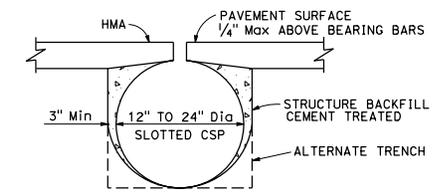
TAPERED SPACER

GRATE SLOT-LONGITUDINAL ELEVATION VIEW

See Note 10



SLOTTED CORRUGATED STEEL PIPE



BACKFILL

SLOTTED CORRUGATED STEEL PIPE DRAIN DETAILS
NO SCALE

D98B

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER
 Bruce D. Swanger
 No. C61257
 Exp. 6-30-17
 CIVIL
 STATE OF CALIFORNIA

October 30, 2015
 PLANS APPROVAL DATE
 THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

NOTES:

1. Drain pipe seams may be continuous helical lock seam or helical weld seam.
2. Drain sections shall be assembled with either of the coupling bands shown.
3. The cross bar spacer shall be welded to the bearing bars in such a manner as to develop a minimum tensile strength of 12,000 LBS normal to the longitudinal axis of the bearing bars.
4. The maximum variance from a straight line between the extreme top corners of the bearing bars shall be 1/2" in 20'-0".
5. Spot welds shall develop minimum required strength of strap.
6. Dimensions shown are minimums.
7. Minimum pipe wall thickness is 0.064".
8. Use heel guard when specified.
9. Bottom edge of cross bar spacer offset in direction of flow.
10. Unless otherwise shown on the plans or specified in the special provisions, cross bar spacers shall be either rectangular or tapered at the contractor's option.