

DESIGNER NOTE
 (REMOVE PRIOR TO PLOTTING FINAL PLANS)
 FOR BRIDGES WITH SUPERELEVATION EXCEEDING 2%, SHOW THE BARRIER FRONT FACE DIMENSIONS AS INDICATED ON THIS SHEET, AND ALSO CALCULATE AND SHOW THE BARRIER BACK FACE DIMENSIONS. ALSO VERIFY THAT BAR R501E HAS 10" MIN. PROJECTION WHEN CROSS SLOPE VARIES FROM NORMAL 0.02 FT/FT

EXPANSION JOINT
 EXPANSION JOINT NOT SHOWN

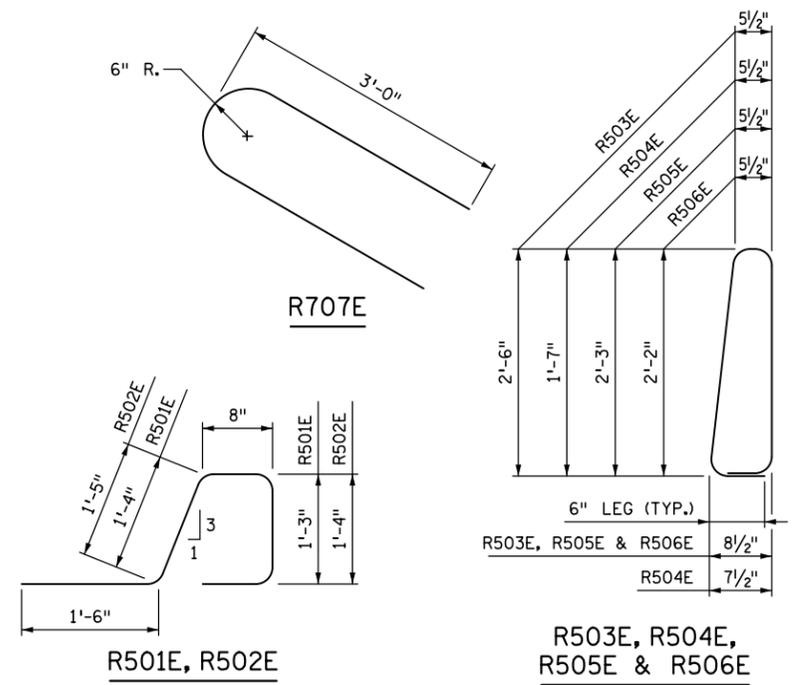
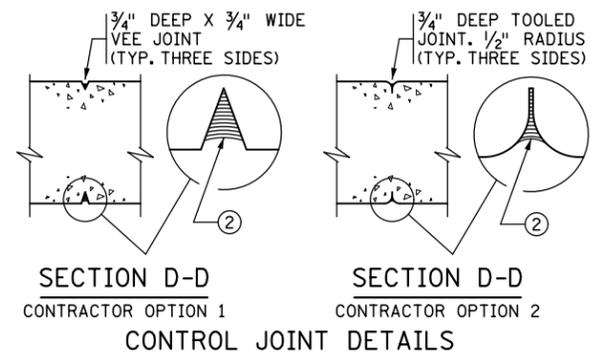
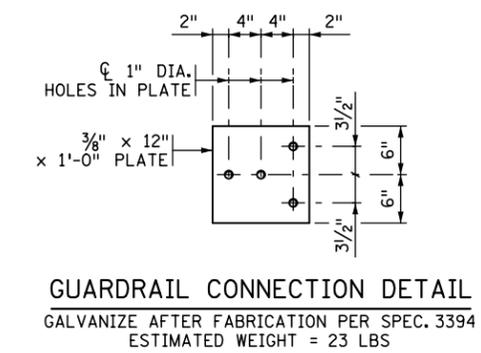
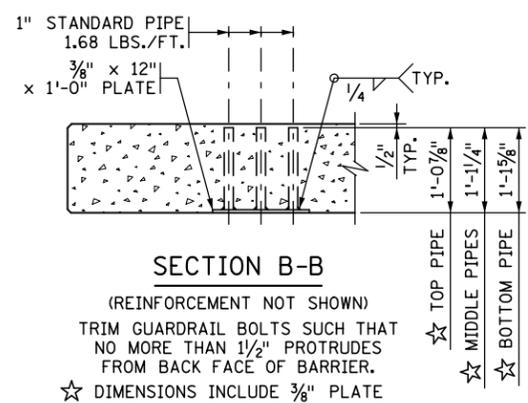
CONTROL JOINT

INSIDE ELEVATION OF BARRIER
 CONCRETE WEARING COURSE NOT SHOWN
 (7'-0" BARRIER ON APPROACH SHOWN)

BARRIER MEETS TEST LEVEL 4 REQUIREMENTS OF NCHRP REPORT 350

BILL OF REINFORCEMENT FOR BARRIER

BAR	NO.	LENGTH	SHAPE	LOCATION
R501E		5'-3"		BARRIER DOWEL
R502E		5'-5"		BARRIER DOWEL
R503E		6'-6"		BARRIER VERTICAL
R504E		4'-8"		BARRIER VERTICAL
R505E		6'-0"		BARRIER VERTICAL
R506E		5'-10"		BARRIER VERTICAL
R707E		6'-6"		BARRIER VERTICAL
R4_E				BARRIER LONGIT.
R4_E				BARRIER LONGIT.
R4_E				BARRIER LONGIT.
R4_E				BARRIER LONGIT.



GENERAL NOTES

MEASURE PAYMENT LENGTH BETWEEN THE OUTSIDE FACES OF THE BARRIER.

CONCRETE BARRIER = 502 LBS./FT. (0.124 CU. YDS./FT.)

FINISH ALL EDGES OF BARRIER AND END POST WITH 1/2" CHAMFER, EXCEPT WHERE OTHERWISE NOTED.

SPACE OF CONTROL JOINTS AT BE 10 FT. MAXIMUM. SEE SUPERSTRUCTURE SHEET FOR JOINT SPACING.

GUARDRAIL CONNECTION TO BE STRUCTURAL STEEL, SPEC. 3306.

GUARDRAIL CONNECTION AND NAME PLATE TO BE CONSIDERED INCIDENTAL TO BARRIER.

BARRIER QUANTITIES ARE LISTED IN SUMMARY OF QUANTITIES FOR SUPERSTRUCTURE.

① PLACE BAR ON TOP OF BOTTOM REINFORCEMENT MAT.

② JOINT SEALANT PER MNDOT APPROVED/QUALIFIED PRODUCTS LIST - CRACK AND JOINT MATERIALS - SILICONE JOINT SEALERS.

REVISION:

APPROVED: JANUARY 13, 2015
Nancy Subenberger
 STATE BRIDGE ENGINEER

CERTIFIED BY _____
 LICENSED PROFESSIONAL ENGINEER DATE _____
 NAME: _____ LIC. NO. _____

TITLE: **CONCRETE BARRIER (TYPE F, TL-4)**
 PARAPET ABUTMENT WITH INTEGRAL END POST
 (WITH CONCRETE WEARING COURSE)

DES: _____ DR: _____
 CHK: _____ CHK: _____

APPROVED: _____
 SHEET NO. OF SHEETS

BRIDGE NO. _____

FIG. 5-397.117(B)