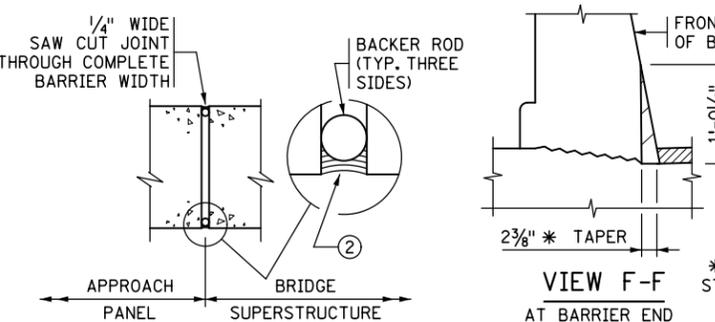
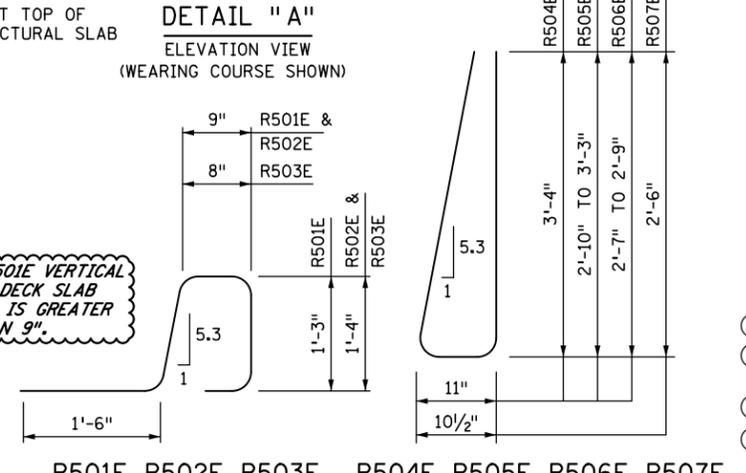
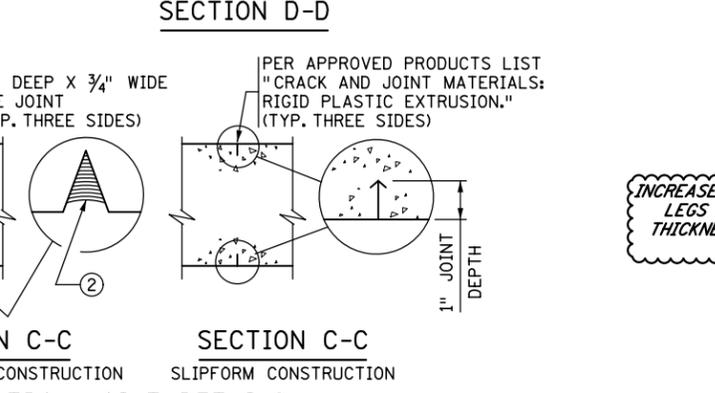
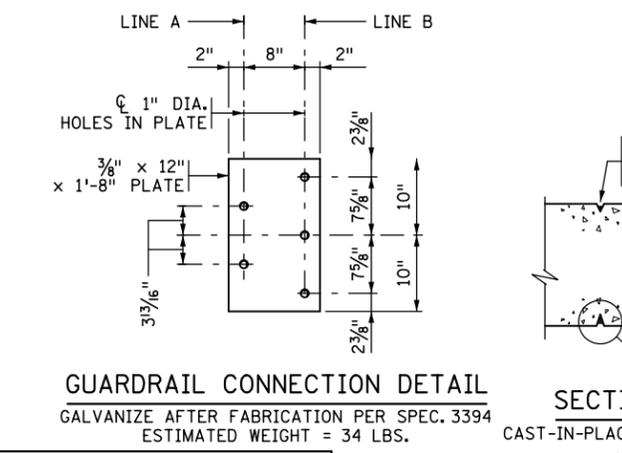


**DESIGNER NOTE**  
 (REMOVE PRIOR TO PLOTTING FINAL PLAN)  
 MINIMUM BARRIER LENGTH ON APPROACH PANEL IS 10'-8" WITH MINIMUM OF 22 R502E AND R503E DOWELS WITH ACCOMPANYING APPROPRIATE BARRIER VERTICAL BARS, 12" MAX. SPACING. VERIFY APPROACH BARRIER LENGTH, NEED FOR A GUARDRAIL CONNECTION, AND VERTICAL TAPER WITH ROADWAY DESIGNER. REFER TO MEMO TO DESIGNERS (2016-01) FOR ADDITIONAL REQUIREMENTS REGARDING BARRIER PLACEMENT.



**BILL OF REINFORCEMENT FOR BARRIER**

BAR NO.	LENGTH	SHAPE	LOCATION
R501E	5'-4"	[Symbol]	BARRIER DOWEL
R502E	5'-6"	[Symbol]	BARRIER DOWEL
R503E	5'-5"	[Symbol]	BARRIER DOWEL
R504E	7'-6"	[Symbol]	BARRIER VERTICAL
R505E	-- SER. OF 4 6'-7" TO 7'-5"	[Symbol]	BARRIER VERTICAL
R506E	-- SER. OF 4 6'-1" TO 6'-5"	[Symbol]	BARRIER VERTICAL
R507E	5'-10"	[Symbol]	BARRIER VERTICAL
R408E	10'-3"	[Symbol]	BARRIER LONGIT.
R4_E		[Symbol]	BARRIER LONGIT.
R4_E		[Symbol]	BARRIER LONGIT.
R4_E		[Symbol]	BARRIER LONGIT.
R4_E		[Symbol]	BARRIER LONGIT.



**GENERAL NOTES**

- MEASURE PAYMENT LENGTH BETWEEN THE OUTSIDE ENDS OF THE BARRIER.
- CONCRETE BARRIER = 556 LBS./FT. (0.137 CU. YDS./FT.)
- FINISH ALL EDGES OF BARRIER WITH 1/2" CHAMFER, EXCEPT WHERE OTHERWISE NOTED.
- SPACE CONTROL JOINTS AT 10 FT. MAXIMUM. REFER TO SUPERSTRUCTURE SHEET FOR SPECIFIC SPACING INFORMATION.
- 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 IN DECK.
- ② JOINT SEALANT PER MDOT APPROVED/QUALIFIED PRODUCTS LIST - CRACK AND JOINT MATERIALS - SILICONE JOINT SEALERS.
- ③ DIMENSIONS TO BE DETERMINED BASED ON THE BRIDGE DECK SLOPE.
- ④ REMOVE CONCRETE FROM PIPE ENDS AFTER SLIPFORMING OR FORM REMOVAL.

REVISION: MAY 10, 2017  
 APPROVED: AUGUST 24, 2016  
 Kevin Weston  
 STATE BRIDGE ENGINEER

**CONTROL JOINT DETAILS**  
 FOR SLIPFORM CONSTRUCTION: IMMEDIATELY AFTER CONCRETE IS PLACED AND WHILE IT IS STILL WET, CREATE A ONE INCH STRAIGHT GROOVE USING A TROWEL. INSERT RIGID PLASTIC EXTRUSION INTO GROOVE TO A DEPTH 1/8" BELOW THE SURFACE; FINISH OVER GROOVE COMPLETELY HIDING THE EXTRUSION.

CERTIFIED BY \_\_\_\_\_  
 LICENSED PROFESSIONAL ENGINEER DATE \_\_\_\_\_  
 NAME: \_\_\_\_\_ LIC. NO. \_\_\_\_\_

TITLE: **CONCRETE BARRIER 42" (TYPE S, TL-4)**  
 INTEGRAL OR SEMI-INTEGRAL ABUTMENT WITH BRIDGE SLAB SIDEWALK AND GUARDRAIL CONNECTION (WITH 2" CONCRETE WEARING COURSE)

DES: \_\_\_\_\_ DR: \_\_\_\_\_ APPROVED: \_\_\_\_\_  
 CHK: \_\_\_\_\_ CHK: \_\_\_\_\_  
 SHEET NO. OF SHEETS BRIDGE NO. \_\_\_\_\_

FIG. 5-397.140(D)