

SECTION A-A
* DIMENSION SHOWN IS TO THE TOP OF THE WEARING COURSE AT GUTTERLINE.

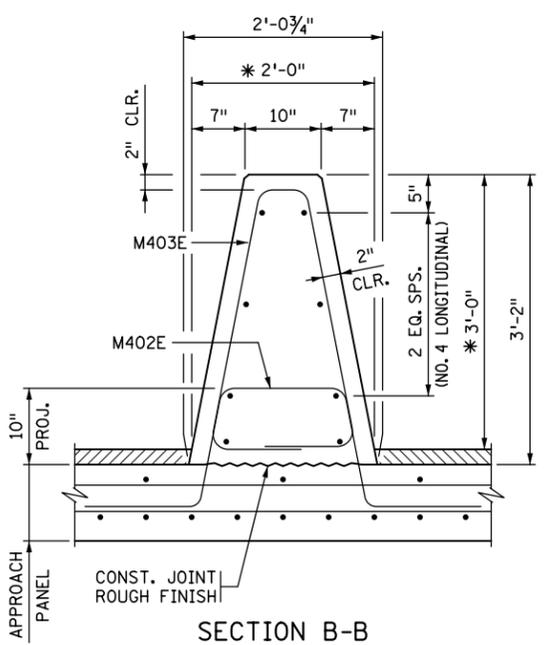
DESIGNER NOTE
REMOVE PRIOR TO PLOTTING FINAL PLAN;
VERIFY LENGTH OF BARRIER ON APPROACH PANEL
WITH ROADWAY DESIGNER. REFER TO MEMO TO DESIGNERS (2016-01)
FOR ADDITIONAL REQUIREMENTS REGARDING BARRIER PLACEMENT.

EXPANSION JOINT ③
EXPANSION DEVICE NOT SHOWN

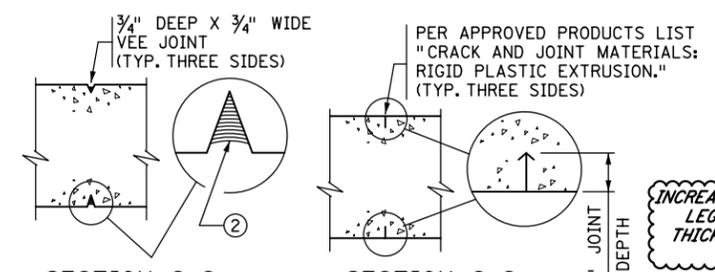
INSIDE ELEVATION OF BARRIER
CONCRETE WEARING COURSE NOT SHOWN

**BARRIER MEETS NCHRP 350 TL-4 REQUIREMENTS
ON BRIDGE DECK AND TL-3 ON APPROACH PANEL.**

BILL OF REINFORCEMENT FOR BARRIER				
BAR	NO.	LENGTH	SHAPE	LOCATION
M401E		6'-5"		BARRIER DOWEL
M402E		6'-6"		BARRIER DOWEL
M403E		8'-5"		BARRIER VERTICAL
M404E		6'-1"		BARRIER VERTICAL
M4_E				BARRIER LONGITUDINAL
M4_E				BARRIER LONGITUDINAL
M4_E				BARRIER LONGITUDINAL
M4_E				BARRIER LONGITUDINAL



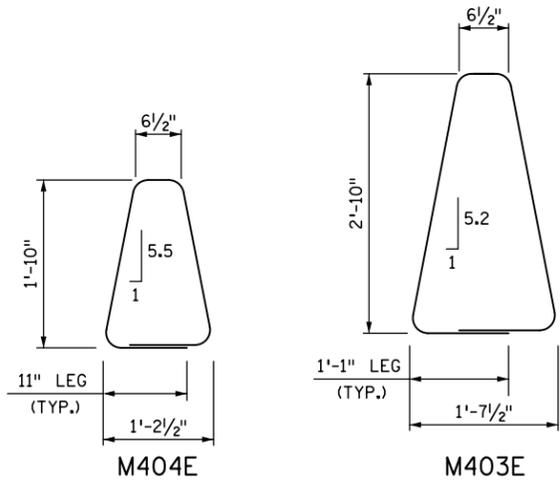
SECTION B-B
CONCRETE APPROACH PANEL.
* DIMENSION SHOWN IS TO THE TOP OF THE WEARING COURSE AT GUTTERLINE.



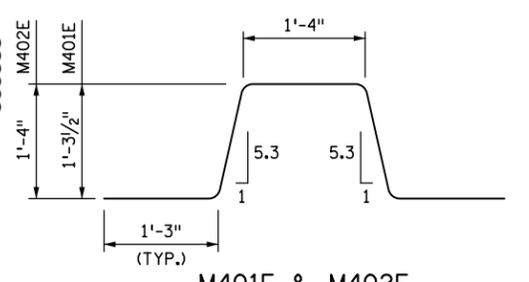
SECTION C-C
CAST-IN-PLACE CONSTRUCTION
SECTION C-C
SLIPFORM CONSTRUCTION
CONTROL JOINT DETAILS

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.

INCREASE M401E VERTICAL LEGS IF DECK SLAB THICKNESS IS GREATER THAN 9"



M404E **M403E**



M401E & M402E

GENERAL NOTES

- MEASURE PAYMENT LENGTH BETWEEN THE OUTSIDE ENDS OF THE BARRIER FROM THE E8 JOINT.
- CONCRETE BARRIER = 688 LBS./FT. (0.170 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.
- 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 MnDOT APPROVED/QUALIFIED PRODUCTS LIST- CRACK AND JOINT MATERIALS -SILICONE JOINT SEALERS.
- ③ REFER TO "WATERPROOF EXPANSION DEVICE" STANDARD PLANS FOR COVER PLATE DETAILS.

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

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

TITLE: **SOLID MEDIAN BARRIER 36"**
(TYPE S, TL-4)
PARAPET ABUTMENT
(WITH 2" CONCRETE WEARING COURSE)

DES: _____ DR: _____
CHK: _____ CHK: _____
APPROVED: _____
BRIDGE NO. _____
SHEET NO. _____ OF _____ SHEETS

FIG. 5-397.147(D)