





REINFORCING STEEL BARS SHOWN ARE BASED ON A 20' PANEL LENGTH.

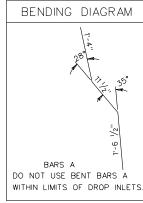
ALL REINFORCING BARS ARE TO BE SIZE #4 GRADE 60 STEEL WITH A MINIMUM $1^{l}\!/_{2}^{l}{}^{l}$ CONCRETE COVER.

THE TYPICAL JOINT SPACING FOR CONSTRUCTION JOINTS IS 20' AND 80' FOR EXPANSION JOINTS FOR TYPE II AND III BARRIERS

FOR DETAILS OF HOW JOINTS ARE TO BE FORMED & WATER STOP DETAILS SEE ST'D. RW-3.

TRANSVERSE JOINTS FOR TYPE I BARRIERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ROAD AND BRIDGE SPECIFICATIONS EXCEPT NO SCORING OR SAWING WILL BE ALLOWED.

HORIZONTAL REINFORCING STEEL BARS B ARE TO BE SEPARATED AT ALL EXPANSION & CONTRACTION JOINTS. A 2" CONCRETE COVER IS REQUIRED OVER THE ENDS OF REINFORCING STEEL.

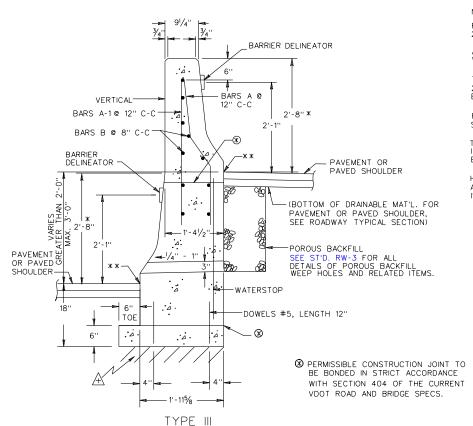


X MB-7D BARRIER FACE

** DENOTES FINISHED GRADE ELEVATION

FOUNDATION MATERIAL UNDER MEDIAN BARRIER IS TO BE COMPACTED.

REINFORCING STEEL SCHEDULE								
	BARS "A"		BARS A-1		BARS "B"		DOWELS	
PANEL	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
TYPE I					2	19'-8''		
TYPE II	20	4'-0''	20	4'-0''	9	19'-8''	40	1'-0''
TYPE III	20	4'-0''	20	4'-0''	9	19'-8''	40	1'-0''



TYPE II (GREATER THAN 2'-0" HT. DIFF., MAX. 3'-0")

MEASUREMENT AND PAYMENT

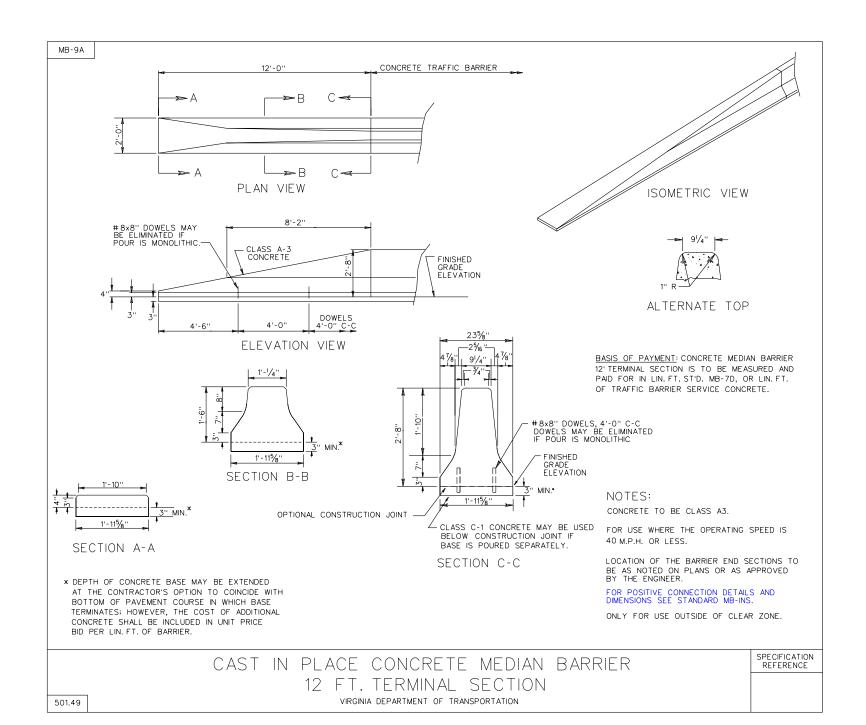
MEDIAN BARRIER MB-8A TYPE I, II OR III WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LIN. FOOT, WHICH SHALL BE FULL COMPENSATION FOR FURNISHING AND INSTALLING CLASS A3 CONCRETE, REINFORCING STEEL, POROUS BACKFILL AND ALL TOOLS, LABOR, EQUIPMENT AND INCIDENTALS NECESSARY TO COMPLETE THE WORK.
ANY ADDITIONAL EXCAVATION, BACKFILL WITH SUITABLE MATERIAL AND COMPACTION WORK NECESSARY FOR THE CONCRETE MEDIAN BARRIER INSTALLATION IS TO BE CONSIDERED INCIDENTAL IN THE PRICE BID FOR THE CONCRETE MEDIAN BARRIER.

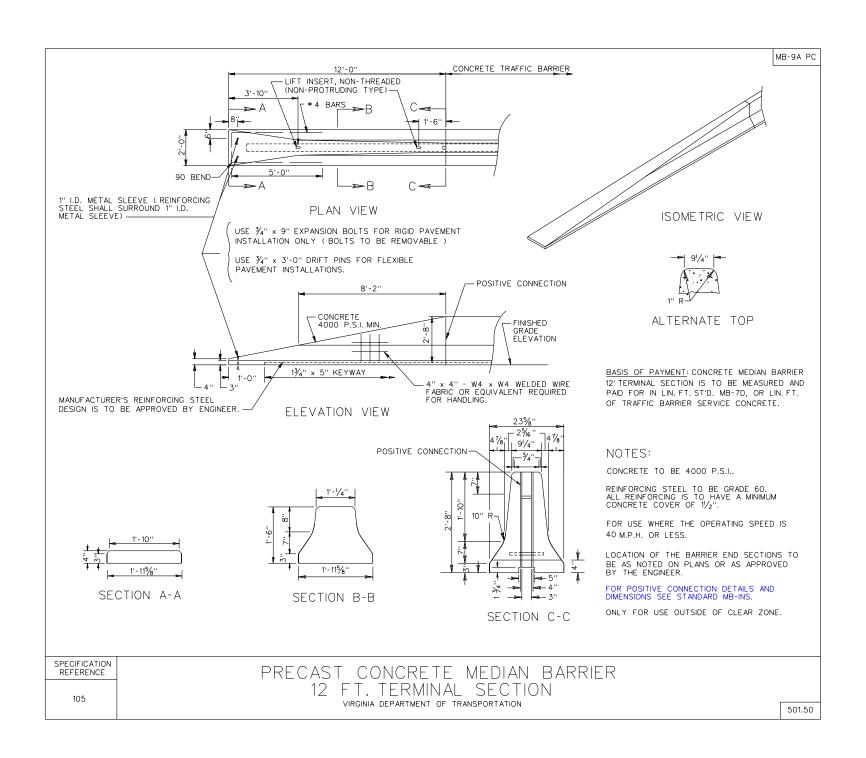
SPECIFICATION REFERENCE

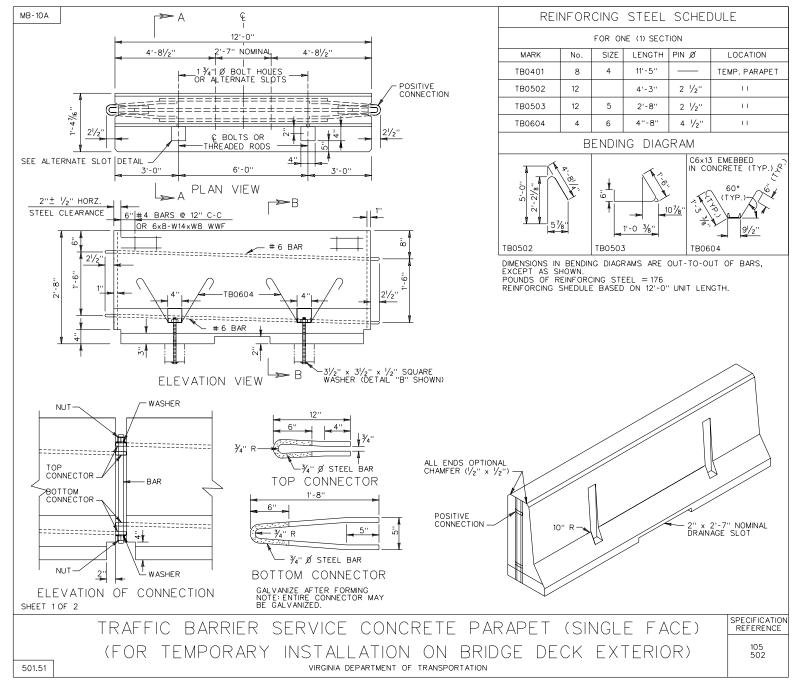
CONCRETE MEDIAN BARRIER
TYPE I, II OR III
VIRGINIA DEPARTMENT OF TRANSPORTATION

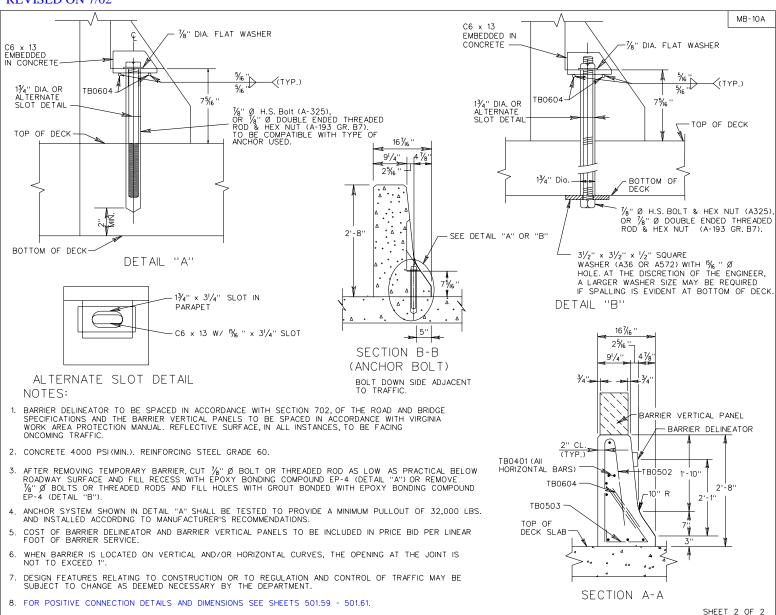
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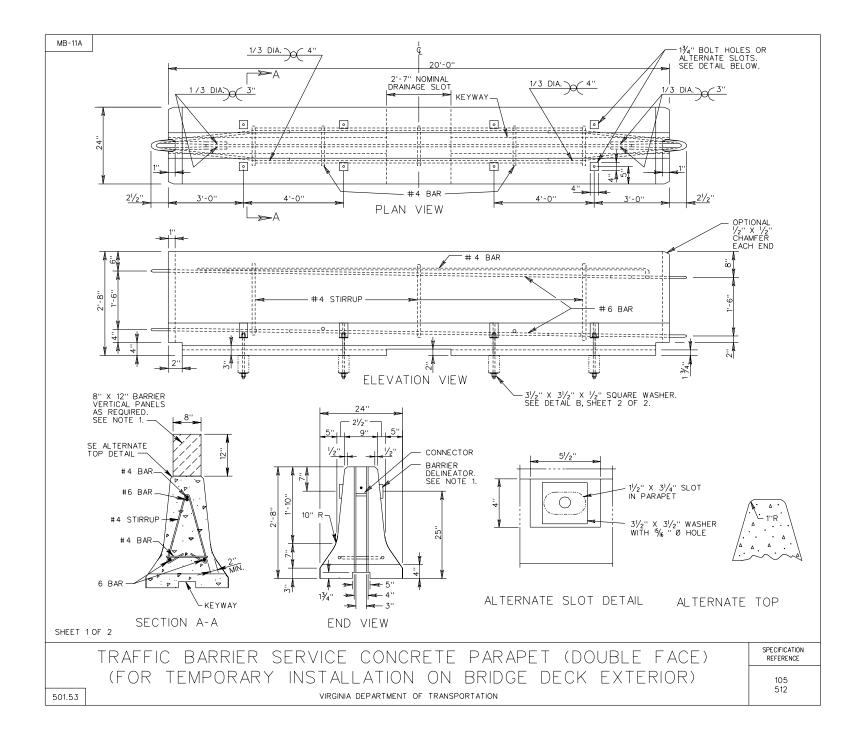


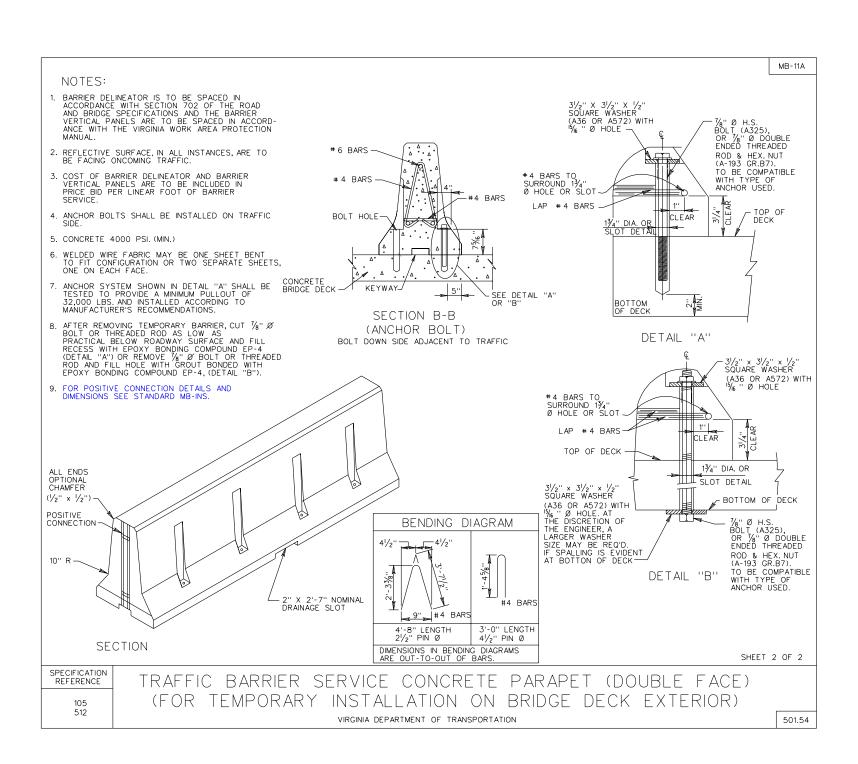
SPECIFICATION REFERENCE

TRAFFIC BARRIER SERVICE CONCRETE PARAPET (SINGLE FACE) (FOR TEMPORARY INSTALLATION ON BRIDGE DECK EXTERIOR)

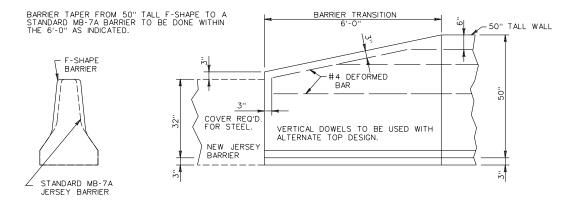
VIRGINIA DEPARTMENT OF TRANSPORTATION

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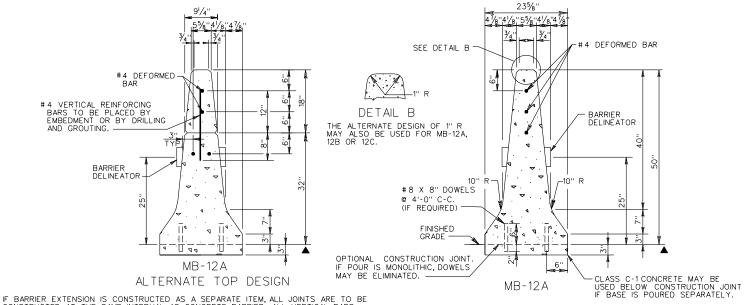








TRANSITION FROM 50" TALL WALL TO 32" JERSEY BARRIER



IF BARRIER EXTENSION IS CONSTRUCTED AS A SEPARATE HEM, ALL JOINTS ARE TO BE CONSTRUCTED AT THE SAME INTERVAL AS CONCRETE BARRIER. ALL VERTICAL BARS ARE #4 AT 24" MAX. SPACING. LENGTH OF DOWELS SHALL BE 20". VERTICAL BARS MAY BE PLACED IN THE CONCRETE OR BONDED INTO DRILLED HOLES IN HARDENED CONCRETE. WHEN HOLES ARE DRILLED NON-SHRINK GROUT SHALL BE USED TO BOND THE BARS IN PLACE.

▲ DEPTH OF CONCRETE BASE MAY BE EXTENDED AT THE CONTRACTOR'S OPTION TO COINCIDE WITH BOTTOM OF PAVEMENT COURSE IN WHICH BASE TERMINATES: HOWEVER, THE COST OF ADDITIONAL CONCRETE SHALL BE INCLUDED IN UNIT PRICE BID PER LINEAR FT. OF BARRIER.

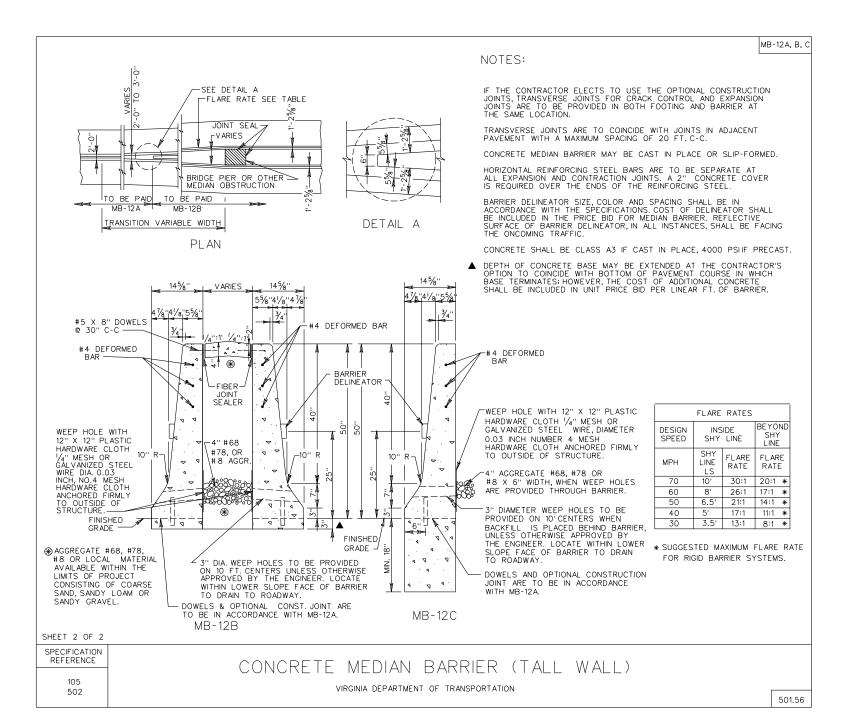
SHEET 1 OF 2

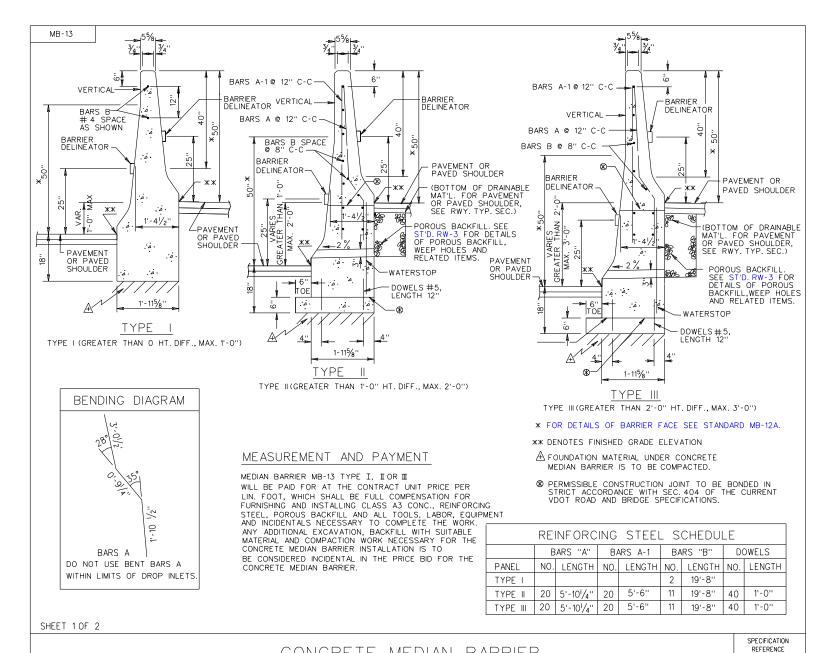
CONCRETE MEDIAN BARRIER (TALL WALL)

VIRGINIA DEPARTMENT OF TRANSPORTATION

REFERENCE 105 502

SPECIFICATION



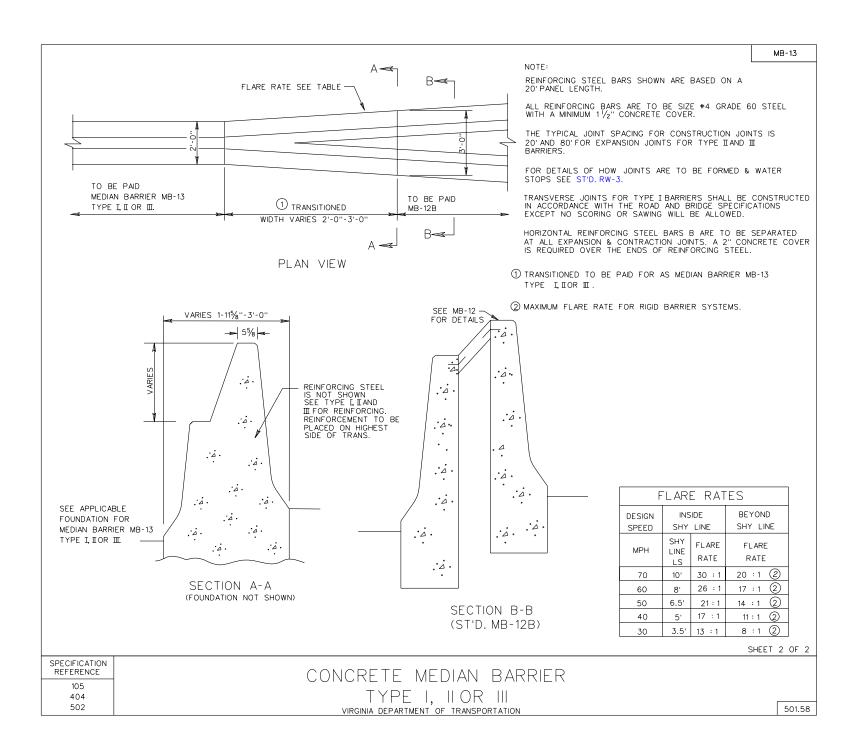


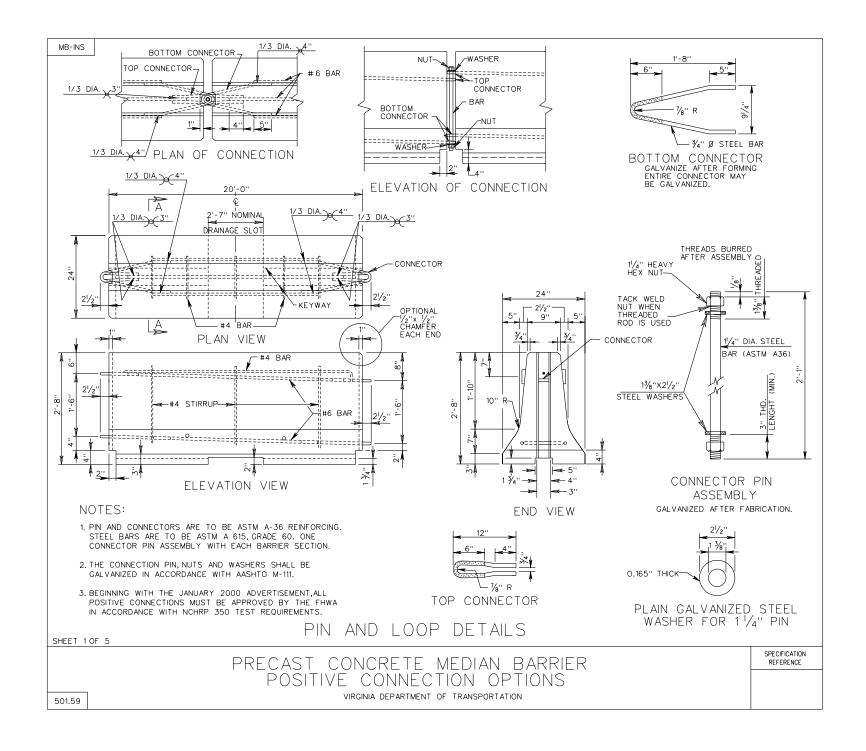
CONCRETE MEDIAN BARRIER

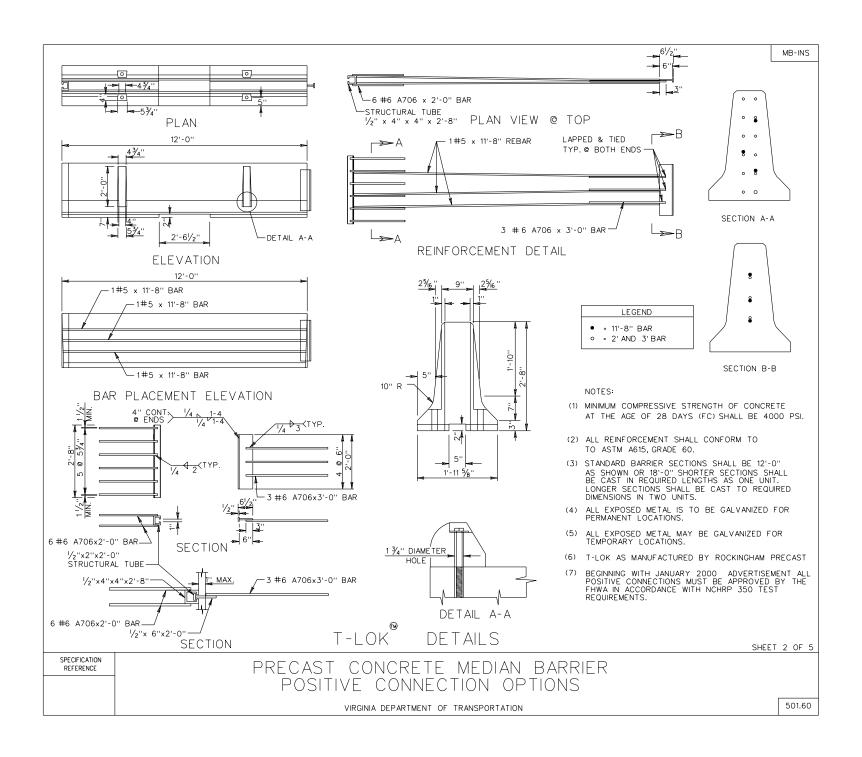
TYPE I, II OR III

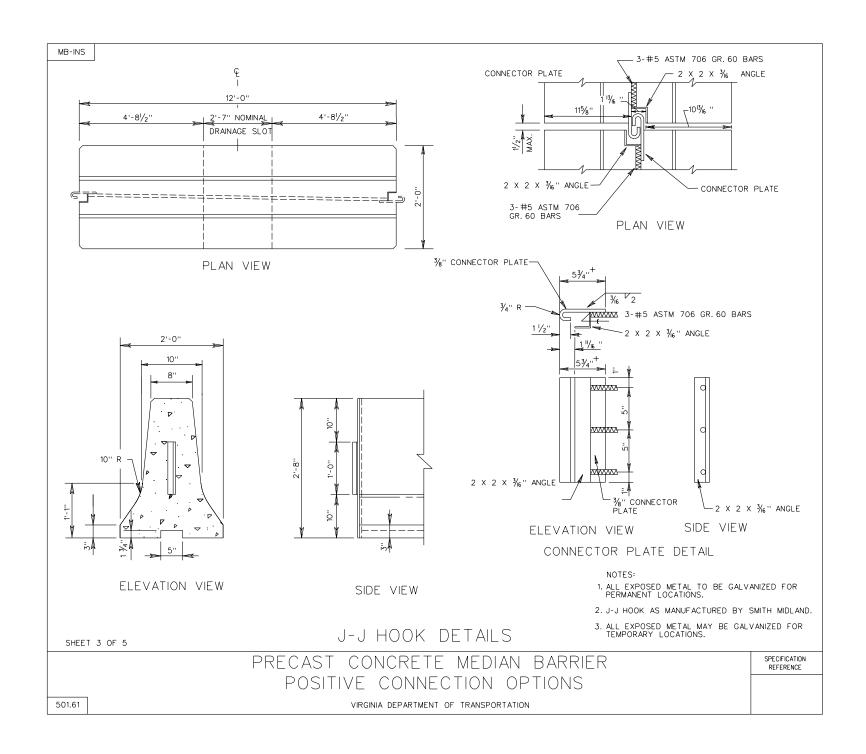
VIRGINIA DEPARTMENT OF TRANSPORTATION

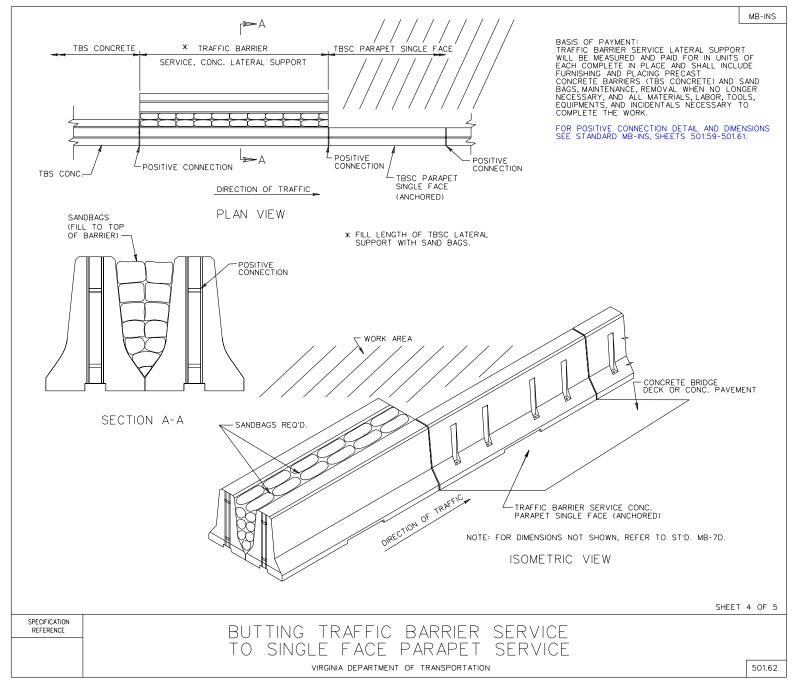
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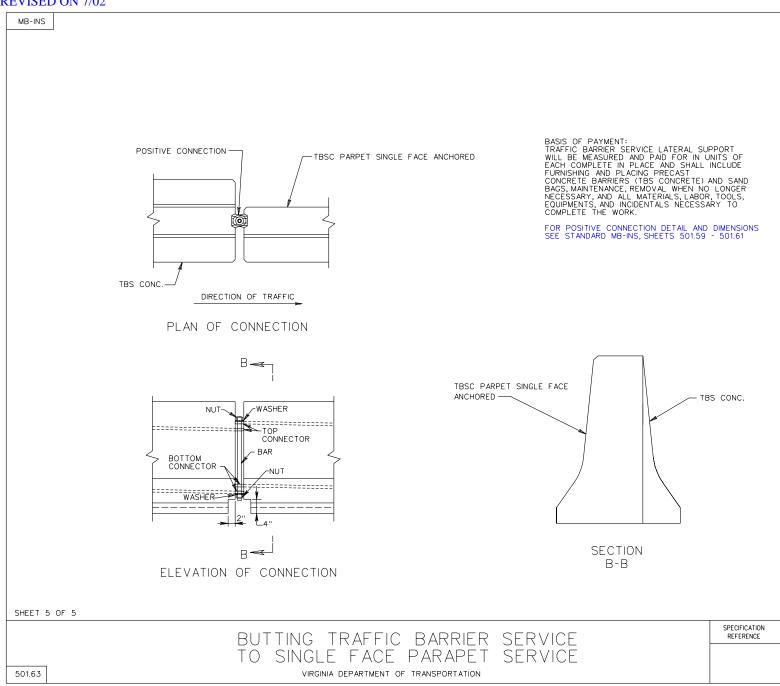




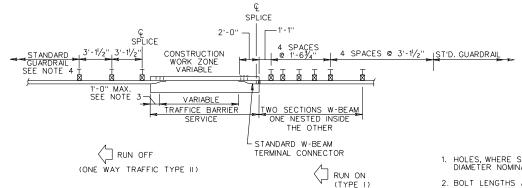




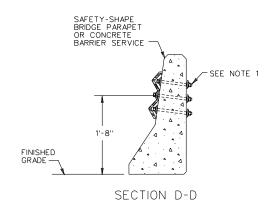


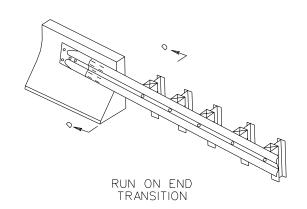






- 1. HOLES, WHERE SHOWN, SHALL BE FORMED WITH SLEEVES OF $11\!/_{\!2}\text{"}$ DIAMETER NOMINAL PIPE.
- 2. BOLT LENGTHS ARE TO BE ESTABLISHED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. ALL BOLTS ARE TO BE $\frac{7}{6}$ " DIA. HEX HEAD MACHINE BOLTS WITH BEVELED WASHERS AND SELF-LOCKING NUTS.
- 3. FOR TWO-WAY TRAFFIC DESIGN, USE RUN-ON END TRANSITION (TYPE I).
- 4. RUN OFF (TYPE II) GUARDRAIL TO BE USED ONLY WHEN REQUIRED FOR OTHER REASONS.
- 5. COST OF TRANSITION TO BE INCLUDED IN PRICE BID PER FOOT OF TRAFFIC BARRIER SERVICE CONCRETE.
- 6. THESE INSTRUCTIONS APPLICABLE FOR TEMPORARY INSTALLATION IN CONSTRUCTION ZONES ONLY. REFER TO STANDARD GR-FOA FOR INSTRUCTIONS ON PERMANENT INSTALLATION.





SPECIFICATION REFERENCE

W BEAM GUARDRAIL INSTALLATION CRITERIA FIXED OBJECT ATTACHMENT METHODS FOR CONSTRUCTION ZONES

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VIRGINIA DEPARTMENT OF TRANSPORTATION

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