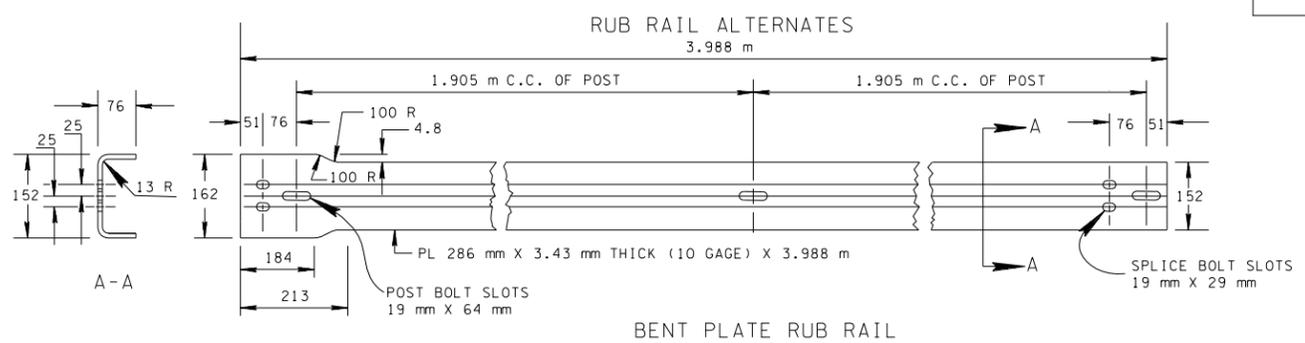
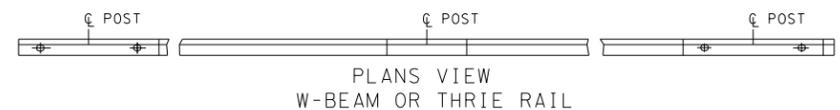


SECTION A-A

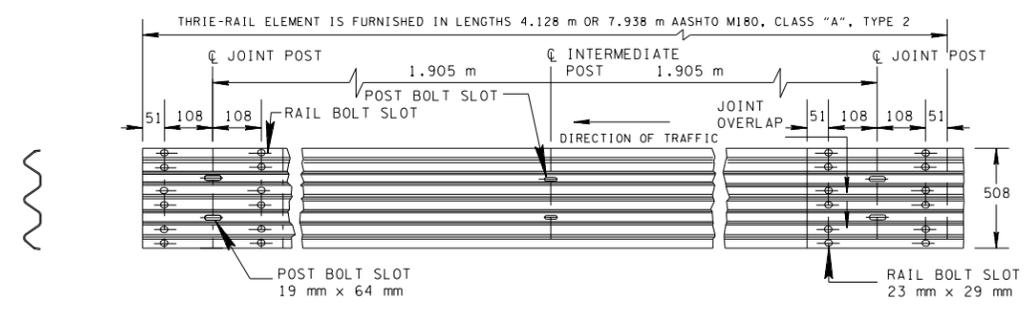
NOTE: HOLES IN RUB-RAIL SAME AS IN SPLICE PLATE



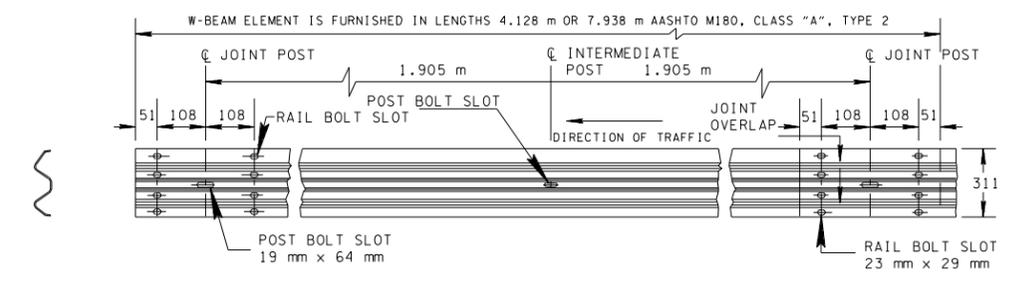
BENT PLATE RUB RAIL



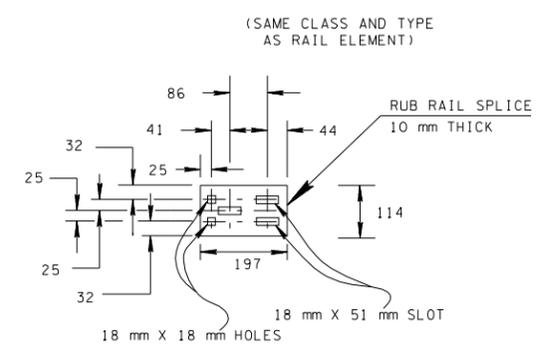
PLANS VIEW  
W-BEAM OR THRIE RAIL



FRONT ELEVATION "THRIE" RAIL



FRONT ELEVATION "W"-BEAM



NOTE: HOLES IN RUB-RAIL SAME AS IN SPLICE PLATE

RUB RAIL SPLICE DETAIL

GENERAL NOTES

- (A) CORRUGATED SHEET STEEL BEAMS SHALL CONFORM TO THE CURRENT REQUIREMENTS OF AASHTO M180, CLASS "A", TYPE 2. RAIL MATERIAL SHALL HAVE A MINIMUM YIELD STRENGTH OF 345 MEGAPASCALS AND A TENSILE STRENGTH OF 483 MEGAPASCALS.
- (B) RUB RAILS AND RUB RAIL SPLICE PLATES SHALL CONFORM TO ASTM A36M AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.
- (C) WHERE GUARDRAIL IS TO BE PLACED ON A CURVE WITH A RADIUS LESS THAN 45 m, THE RAIL SECTION SHALL BE SHOP-FORMED TO THE REQUIRED RADIUS.
- (D) SEE THE "RDM01-TS" STANDARD SERIES FOR GUARDRAIL PLACEMENT.
- (E) ITEM NUMBERS FOR PAYMENT AS DETAILED ON THESE "SM-GR" SERIES OF DRAWINGS ARE AS FOLLOWS:

ITEM NO.	DESCRIPTION	ON DWG NO.
705M01.01	GUARDRAIL AT BRIDGE ENDS	SM-GR-17 & SM-GR-23
705M01.04	METAL BEAM GUARD FENCE	SM-GR-22 & STD-M-15-6
705M02.01	SINGLE GUARDRAIL WITH RUB-RAIL (TYPE 2)	SM-GR-13 & SM-GR-18
705M02.02	SINGLE GUARDRAIL (TYPE 2)	SM-GR-13 & SM-GR-18
705M03.01	MEDIAN DIVIDER GUARDRAIL W/RUB-RAIL (TYPE 2)	SM-GR-13 & SM-GR-18
705M03.02	MEDIAN DIVIDER GUARDRAIL (TYPE 2)	SM-GR-13 & SM-GR-18
705M03.03	MEDIAN DIVIDER GUARDRAIL (TYPE 2) (675 mm MT. HT.)	SM-GR-13 & SM-GR-18
705M03.04	MEDIAN DIVIDER GUARDRAIL AT CONCRETE BARRIER	SM-GR-20
705M04.02	GUARDRAIL TERMINAL (TYPE 12)	SM-GR-19
705M04.03	GUARDRAIL TERMINAL (TYPE 13)	SM-GR-19
705M04.04	GUARDRAIL TERMINAL (TYPE 21)	SM-GR-26
705M04.05	GUARDRAIL TERMINAL (TYPE IN-LINE)	SM-GR-18
705M04.07	TANGENT ENERGY ABSORBING TERMINAL (NCHRP 350 - TL3)	SM-GR-32, SM-GR-35 & SM-GR-40

- (F) TYPE 1: 0.953 mm SPACING
- TYPE 2: 1.905 m SPACING

- REV. 11-1-95: CHANGED TO METRIC.
- REV. 7-29-98: MODIFIED GENERAL NOTE (E).
- REV. 9-5-98: MODIFIED GENERAL NOTE (E).
- REV. 10-26-99: DELETED BACK UP PLATE DETAILS.
- REV. 9-5-00: IN GENERAL NOTES CORRECTED NOTE (E).
- REV. 5-27-01: IN GENERAL NOTE (E) CHANGED ITEM NUMBERS OF GUARDRAIL TO CONCUR WITH NEW PAY ITEM SYSTEM.
- REV. 9-5-01: CORRECTED DESCRIPTION FOR ITEM NO. 705M04.07.
- REV. 9-11-02: DELETED ITEM NO. 705M01.02.
- REV. 9-5-03: CHANGED GENERAL NOTE (A) DELETED GENERAL NOTE (B). RENUMBERED REMAINING GENERAL NOTES.
- REV. 2-22-05: CHANGED GENERAL NOTES (D), (E), AND (F).
- REV. 6-30-05: MODIFIED GENERAL NOTE (A).



ALL UNITS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.

MINOR REVISION -- FHWA APPROVAL NOT REQUIRED.

STATE OF TENNESSEE  
DEPARTMENT OF TRANSPORTATION

W-BEAM & THRIE  
BEAM BARRIER  
RAIL AND RUB RAIL  
ALTERNATES

11-1-95 SM-GR-11

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