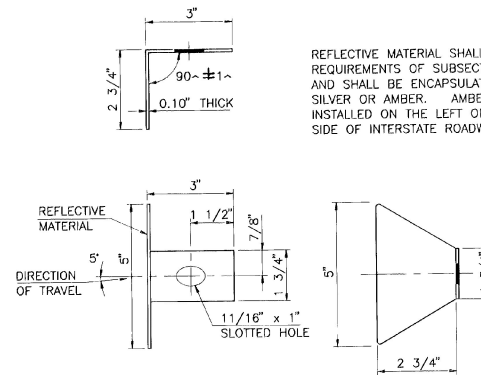


BOX BEAM BRIDGE RAIL NOTES

1. BRIDGE RAILING AND GUARD RAIL APPROACH SECTIONS ARE DESIGNED IN ACCORDANCE WITH THE LATEST AASHTO SPECIFICATIONS.
2. ALL PLATES, BARS, AND ANGLES SHALL BE ASTM A36 STEEL. UNLESS OTHERWISE SPECIFIED, ALL BOLTS SHALL BE ASTM A307. STRUCTURAL STEEL TUBING SHALL BE ASTM A500 COLD-FORMED GRADE B AS MODIFIED IN SECTION 732.03(c).
3. ALL BOX BEAM BRIDGE RAILING, COMPONENTS, ANCHOR BOLTS, AND ATTACHMENT HARDWARE SHALL BE GALVANIZED TO ASTM A123 AFTER FABRICATION.
4. THE FABRICATOR SHALL SUBMIT SHOP DRAWINGS, INCLUDING WELDING PROCEDURES TO THE STRUCTURES DIVISION, FOR APPROVAL IN ACCORDANCE WITH THE PROVISIONS OF SECTION 506.04 - SHOP DRAWINGS. ALL WELDING SHALL CONFORM WITH SECTION 506.10.
5. THE RAIL SYSTEM SHALL BE CONTINUOUS WITH EACH TUBE SECTION ATTACHED TO A MINIMUM OF TWO POSTS. JOINTS SHALL BE SPICED AS SHOWN, WITH CONNECTIONS LOCATED ONE DIRECTLY ABOVE THE OTHER.
6. A BRIDGE RAILING JOINT SPICE SHALL BE PROVIDED AT EACH SUPER-STRUCTURE EXPANSION JOINT. THE RAIL JOINT OPENING SHALL BE ONE INCH UNLESS OTHERWISE NOTED.
7. THE BOX BEAM RAIL SHALL BE SHOP BENT TO MATCH RADI LESS THAN 950 FEET.
8. DELINEATORS SHALL BE MOUNTED AS SHOWN ON SHT. BR110. PAYMENT FOR DELINEATORS SHALL BE SUBSIDIARY TO OTHER ITEMS.
9. PROCEDURE QUALIFICATION FOR ALL WELDS SHALL BE PERFORMED AND APPROVED PRIOR TO FABRICATION. WELDER QUALIFICATION WILL BE REQUIRED FOR EACH PROCEDURE. PROCEDURE AND WELDER QUALIFICATION ACCEPTANCE SHALL BE APPROVED BY RADIOGRAPHIC TESTING.

REFLECTIVE MATERIAL SHALL MEET THE REQUIREMENTS OF SUBSECTION 750.08 AND SHALL BE ENCAPSULATED LENS SILVER OR AMBER. AMBER IS TO BE INSTALLED ON THE LEFT OR MEDIAN SIDE OF INTERSTATE ROADWAYS.

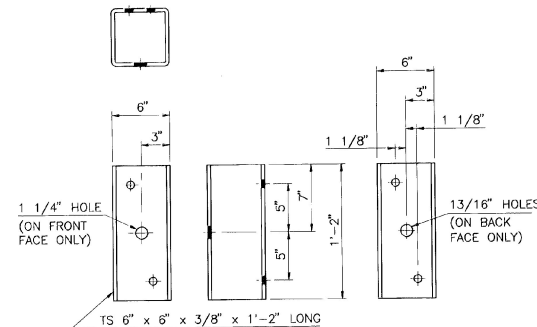


DELINEATOR DETAILS

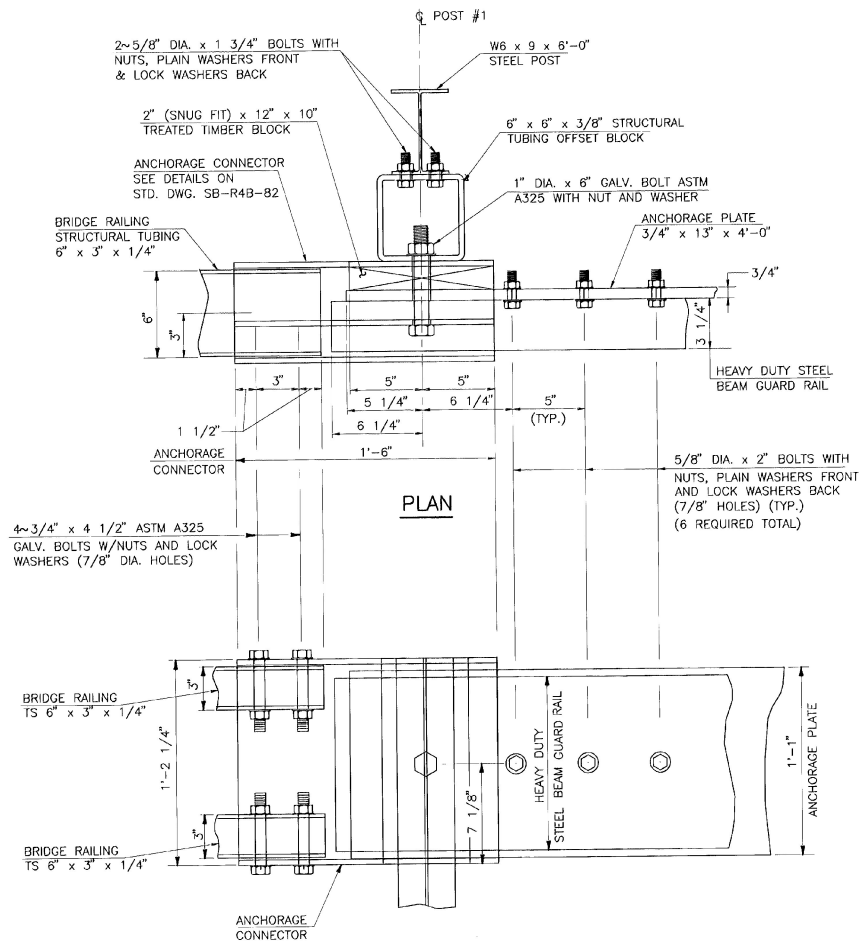
THIS REFLECTORIZED ALUMINUM DELINEATOR IS TO BE ERRECTED EVERY 30 FEET OR CLOSEST POST. DELINEATOR SHALL MEET SPECIFICATION REQUIREMENTS FOR ASTM B209 ALLOY 5052 - H32.

APPROACH RAIL NOTES

1. REFER TO STANDARD G-1 OR G-1d FOR ADDITIONAL APPROACH RAIL DETAILS.
2. ALL POSTS FOR HEAVY DUTY STEEL BEAM GUARD RAIL SHALL BE STEEL, IN ACCORDANCE WITH SECTION 728 "GUARD RAIL, GUIDE POST AND BARRIERS" UNLESS OTHERWISE SPECIFIED IN THE CONTRACT.
3. APPROACH RAIL SPICES SHALL LAP IN DIRECTION OF TRAFFIC FLOW.
4. ANCHORAGE CONNECTOR AND ANCHORAGE PLATE SHALL BE ASTM A36 STEEL GALVANIZED TO ASTM A123 AFTER FABRICATION.
5. APPROACH RAILING SHALL BE HEAVY DUTY STEEL BEAM FOR EITHER TYPE OF GUARD RAIL APPROACH SECTION.
6. ALLOWABLE DIMENSIONAL TOLERANCE FOR BENT SECTIONS IS +/- 1/16 OF AN INCH.
7. THE UNIT PRICES BID FOR EITHER TYPE OF GUARD RAIL APPROACH SECTION, SHALL INCLUDE ANCHORAGE CONNECTOR, ANCHORAGE PLATE, HEAVY DUTY STEEL BEAM GUARD RAIL, POSTS, OFFSET BLOCKS, BLOCKING, BOLTS, AND ALL NECESSARY HARDWARE.



STRUCTURAL TUBING OFFSET BLOCK DETAILS
(OCCURS AT POST NO. 1 WHEN USING APPROACH RAIL UTILIZING STEEL POSTS)



ELEVATION
CONNECTION/TRANSITION DETAILS AT POST NO. 1



STATE OF VERMONT AGENCY OF TRANSPORTATION

| | |
|--------------------------------------|-------------------------------------|
| Town Of WALLINGFORD | Bridge No. 79 |
| Highway No. U.S. ROUTE 7 | Log Sta. _____ |
| U.S. ROUTE 7 OVER OTTER CREEK | |
| CONNECTION/TRANSITION DETAILS | |
| Designed By VAOT | Drawn By VAOT |
| Checked By TJC | Bridge Design Supervisor EMM |
| Date 4/95 | Date 4/95 |
| PROJECT WALLINGFORD | PROJECT NO. BR5 0137 (13) |
| I.G.C. Info. | |
| Bridge Sheet No. BR111 | Sheet 37 of 113 |



BARNES AND JARNIS, INC.
CONSULTING ENGINEERS
25 STUART STREET, 6TH FL.
BOSTON, MASSACHUSETTS