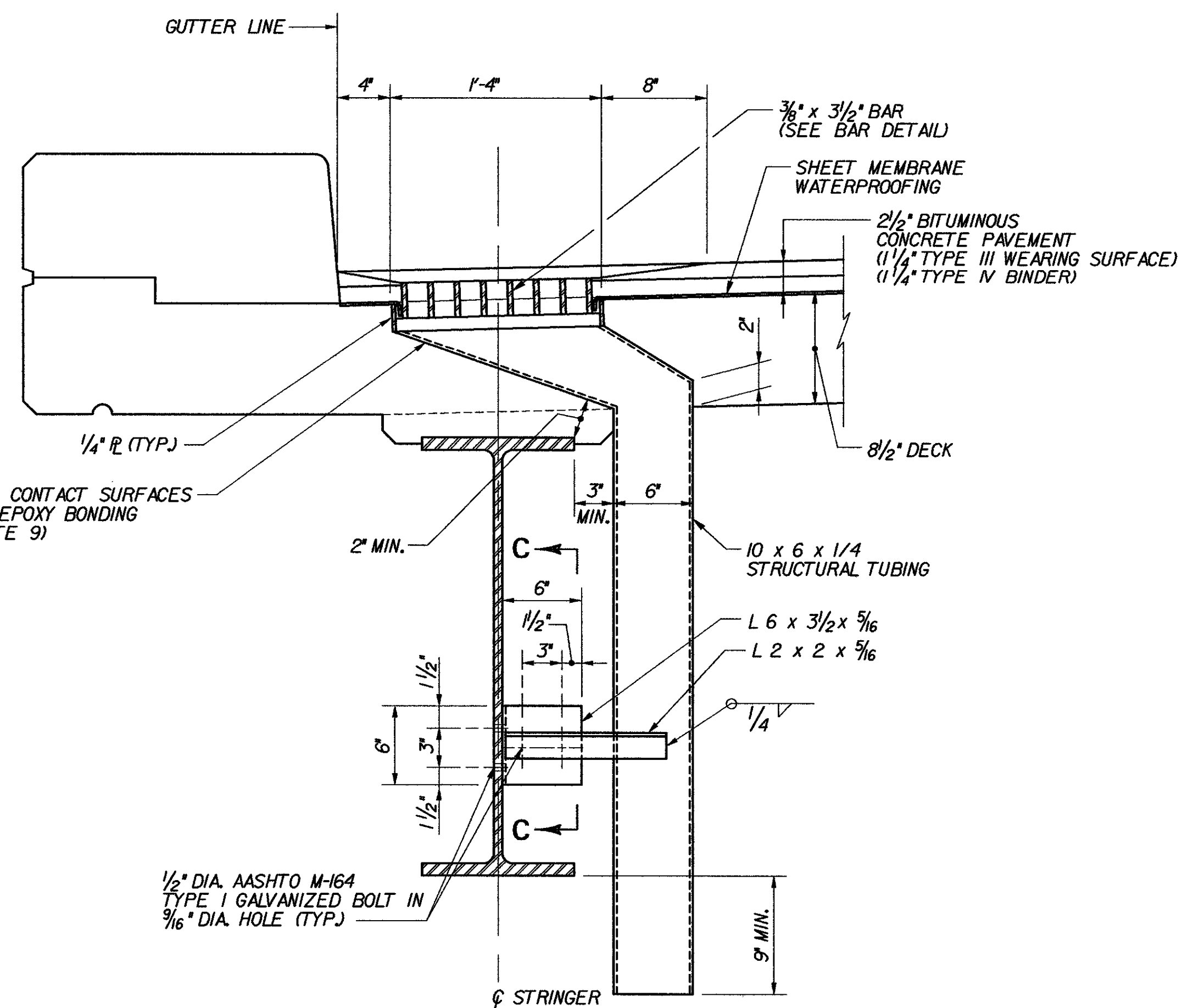


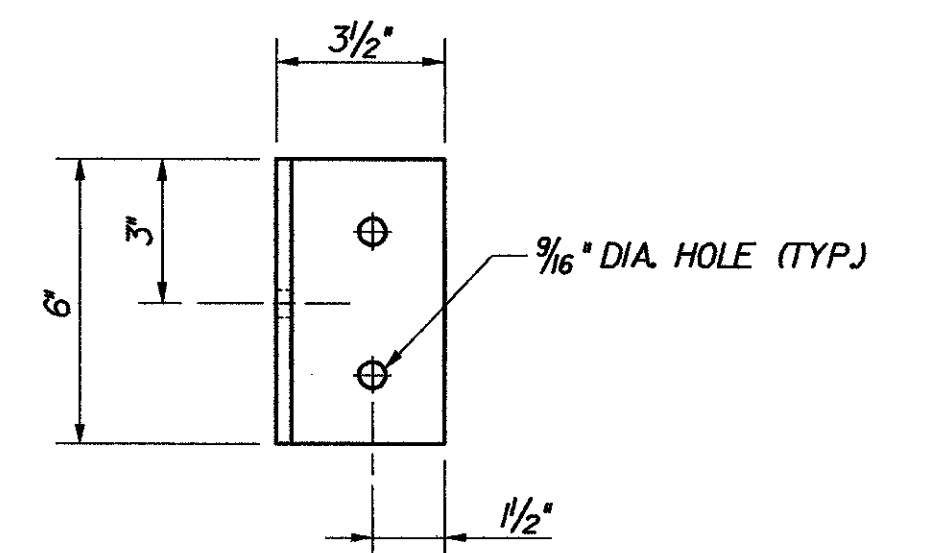
PLAN

SCALE: 1/2"=1'-0"



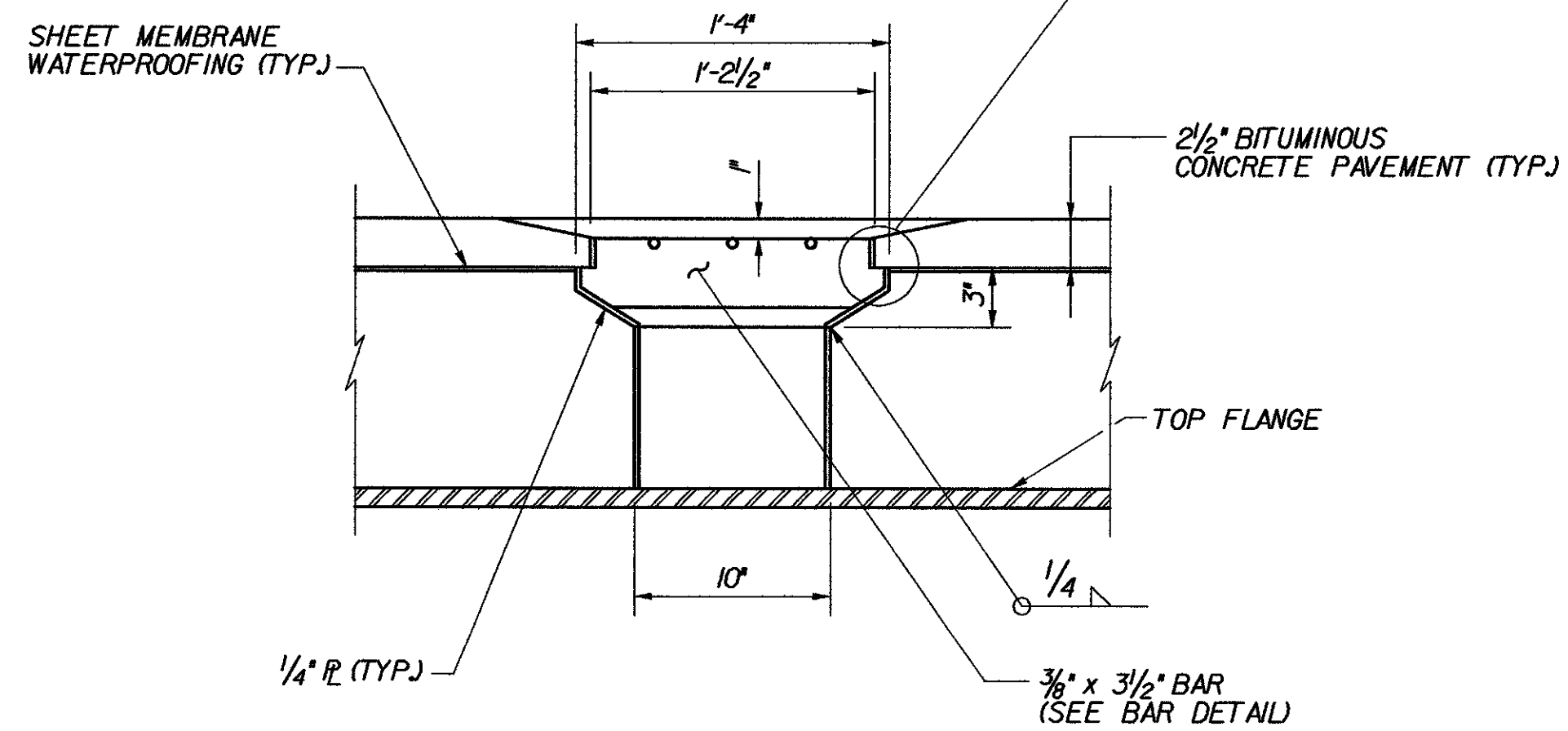
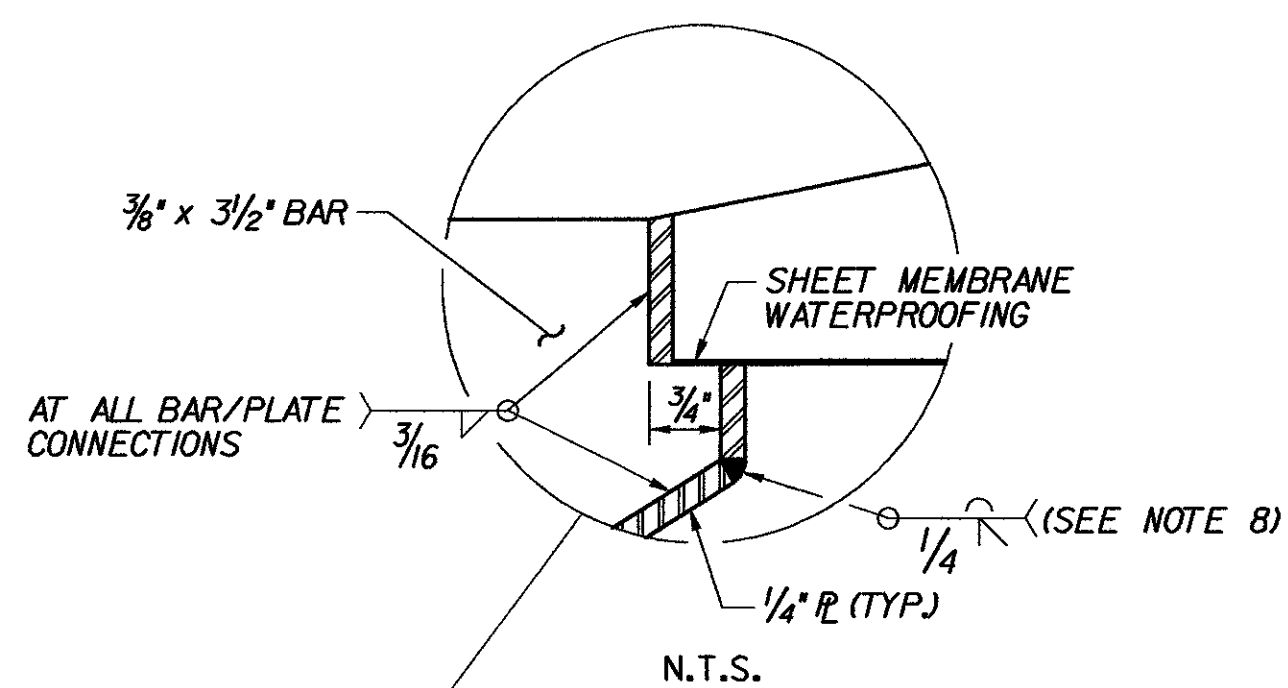
SECTION A-A

SCALE: 1/2"=1'-0"



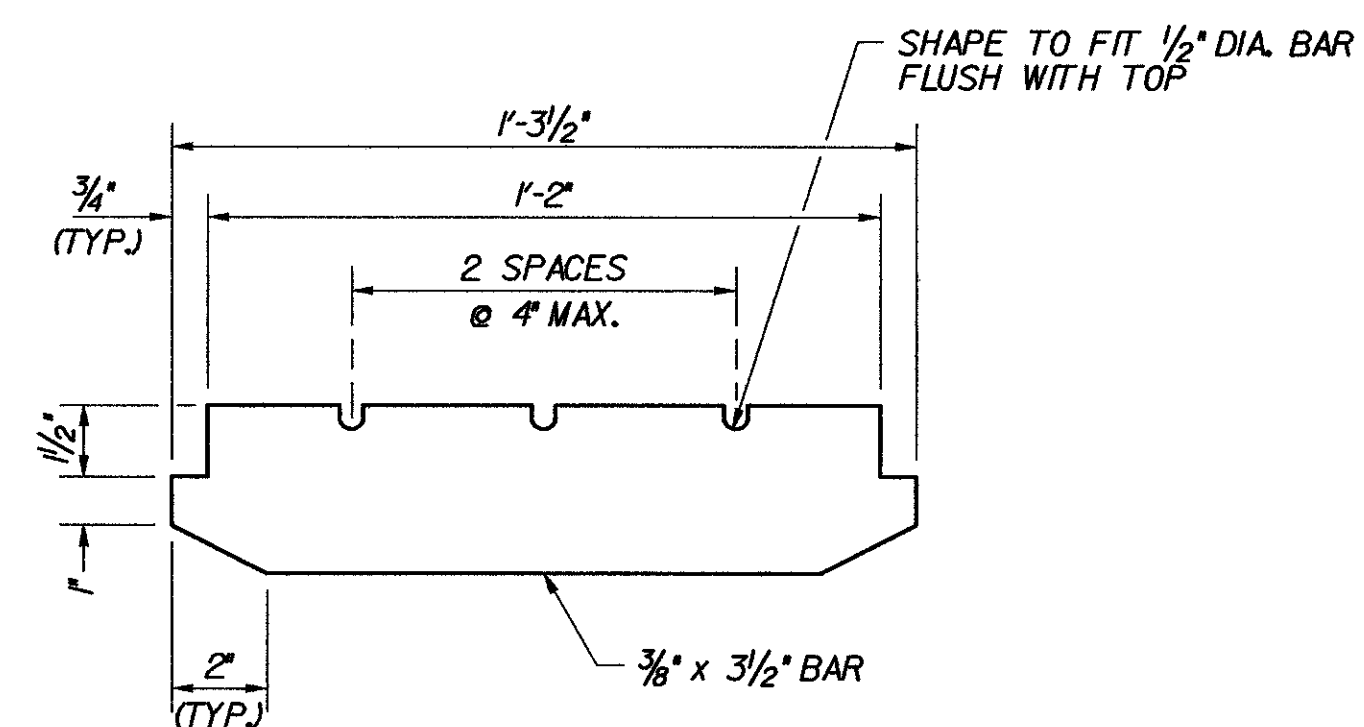
SECTION C-C

SCALE: 3"=1'-0"



SECTION B-B

SCALE: 1/2"=1'-0"



BAR DETAIL

SCALE: 3"=1'-0"

NOTES:

- FOR LOCATION OF SCUPPERS, SEE FRAMING PLAN FOR EACH BRIDGE.
- STRUCTURAL STEEL TUBING SHALL CONFORM TO ASTM A-500 OR A-501.
- ALL PLATES, BARS AND ANGLES SHALL CONFORM TO AASHTO M 270, GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL CONFORM TO AASHTO M-164, TYPE I.
- SCUPPERS, INCLUDING COMPONENTS REQUIRED FOR ATTACHMENT TO SUPERSTRUCTURE, SHALL BE GALVANIZED OR METALIZED AFTER FABRICATION, IN ACCORDANCE WITH SUBSECTION 506.15 OF THE SPECIFICATIONS.
- TOP SURFACE OF SCUPPERS MUST BE SLOPED TO MATCH ROADWAY CROSS SLOPE AND GRADE.
- THE BAR AND GRATE SECTION MAY BE PREFABRICATED PROVIDING THAT THE GEOMETRY AND SECTION PROPERTIES ARE EQUIVALENT TO THE DETAILS SHOWN.
- AT BR 43N&S, THE COST OF SCUPPERS SHALL BE PAID UNDER ITEM 506.50, "STRUCTURAL STEEL (ROLLED BEAM)". AT ALL OTHER LOCATIONS, THE COST SHALL BE PAID UNDER ITEM 506.55, "STRUCTURAL STEEL (PLATE GIRDER)".
- SCUPPER MAY BE FABRICATED BY BENDING PLATES AT THESE JOINTS IN LIEU OF A WELDED CONNECTION. INSIDE RADII SHALL BE NOT GREATER THAN 1/2". GEOMETRICS OF BENT SECTION SHALL CONFORM TO 1/16" FABRICATION TOLERANCE.
- EPOXY BONDING COMPOUND SHALL CONFORM TO THE REQUIREMENTS OF SECTION 719 OF THE SPECIFICATIONS. PAYMENT FOR EPOXY BONDING COMPOUND SHALL BE SUBSIDIARY TO ITEM 501.221, "CONCRETE CLASS A QC/QA".

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

Town Of	MIDDLESEX-BOLTON	Bridge No.	
Highway No.	I-89	Log Sta.	
		Surv. Sta.	

TYPICAL SCUPPER DETAILS

Designed By	P.W. SZUSTAK	Drawn By	R.A. BOTZENHART
Checked By	Date	Bridge Design Supervisor	
J.P. HALSTEAD	10/99	J.P. HALSTEAD	Date 10/99

PROJECT	MIDDLESEX-BOLTON	PROJECT NO.	IM-089-2(126)
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TVGA CAD Drawing No.	scup_det	Date	10/99
Bridge Sheet No.	C-39	Sheet	39 of 307