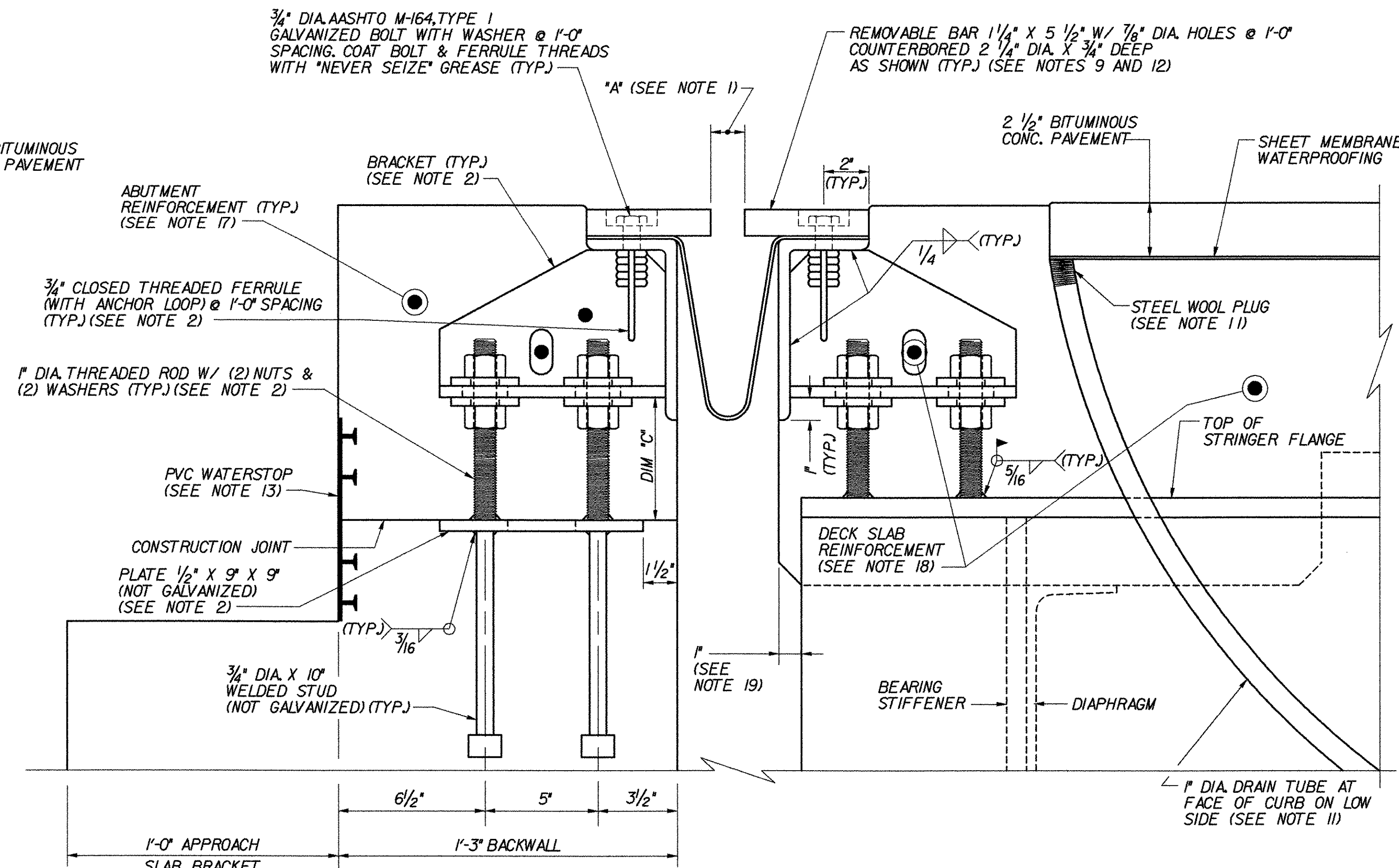


**TYPICAL SECTION BETWEEN STRINGERS**  
(NORMAL TO  $\hat{C}$  BEARING)

SCALE: 3" = 1'-0"



**TYPICAL SECTION AT STRINGERS**  
(NORMAL TO  $\hat{C}$  BEARING)

SCALE: 3" = 1'-0"

**NOTES:**

- FOR TABLES OF "A" AND "X" DIMENSIONS, SEE TYPE "H" ABUTMENT JOINT DETAILS (2 OF 3), BRIDGE SHEET C-29.
- FOR BRACKET, PLATE, WASHER AND ANCHOR FERRULE DETAILS, SEE TYPE "H" ABUTMENT JOINT DETAILS (2 OF 3), BRIDGE SHEET C-29.
- DETAILS ON THIS SHEET ARE FOR ITEM 516.10, "BRIDGE EXPANSION JOINT".
- PREFORMED FABRIC MATERIAL SHALL BE CONTINUOUS AND SHALL CONFORM TO SUBSECTION 707.07 OF THE SPECIFICATIONS.
- BUTYL RUBBER TAPE SHALL CONFORM TO AASHTO SPECIFICATION M-198, TYPE B.
- THE FINAL FINISH OF THE EXPANSION DEVICE SHALL BE COVERED DURING THE PLACING OF BRIDGE DECK CONCRETE.
- ALL STEEL COMPONENTS SHALL BE AASHTO M270 GRADE 36, UNLESS OTHERWISE SPECIFIED. THREADED ROD AND ASSOCIATED NUTS AND WASHERS SHALL CONFORM TO SUBSECTION 714.08 OF THE SPECIFICATIONS. ALL STEEL COMPONENTS AND HARDWARE SHALL BE GALVANIZED OR METALIZED PER SUBSECTION 506.15 OF THE SPECIFICATIONS, UNLESS OTHERWISE SPECIFIED.
- PAYMENT FOR ITEM 516.10, "BRIDGE EXPANSION JOINT" SHALL INCLUDE THE FABRICATION AND ERECTION OF THE COMPLETE JOINT ASSEMBLY INCLUDING ALL STEEL PLATES, BRACKETS, ANGLES, WELDED STUDS OR RODS, PREFORMED FABRIC DRAIN TROUGH MATERIAL AND PLASTIC DRAIN TUBES, BUTYL RUBBER TAPE AND ANY OTHER MISCELLANEOUS MATERIAL NECESSARY TO INSTALL JOINT.
- THE 4 x 8 x 1/2 ANGLES SHALL BE FURNISHED AS ONE CONTINUOUS PIECE. THE 1 1/4 x 5 1/2 BARS EACH SIDE OF THE JOINT SHALL BE PROVIDED IN TWO EQUAL LENGTHS.

- COAT CONCRETE CONTACT SURFACES WITH EPOXY BONDING COMPOUND MEETING THE REQUIREMENTS OF SUBSECTION 719.02 OF THE SPECIFICATIONS. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 516.10, "BRIDGE EXPANSION JOINT".
- A 1" DIAMETER PLASTIC DRAIN TUBE SHALL BE INSTALLED AS SHOWN AT THE FACE OF CURB. THE UPPER END IS TO BE PLUGGED WITH STEEL WOOL AND THE LOWER END IS TO EXTEND BELOW THE BOTTOM OF THE ADJACENT STRINGER. THE DRAIN TUBES SHALL BE FASTENED TO THE STRINGERS USING A METHOD APPROVED BY THE ENGINEER.
- FILL COUNTERBORED HOLES WITH HOT POURED JOINT SEALER AFTER BOLT INSTALLATION. COSTS FOR THE WORK SHALL BE INCIDENTAL TO ITEM 516.10.
- PAYMENT FOR WATERSTOP SHALL BE INCIDENTAL TO ITEM 501.34, "HIGH PERFORMANCE CONCRETE, CLASS B".
- FABRIC TROUGHS SHALL BE INSTALLED SO THAT MINIMUM SLOPE IS 1% FOR POSITIVE DRAINAGE.
- FABRIC TROUGH SHALL BE THOROUGHLY CLEANED AND FLUSHED AFTER PAVING OPERATION.
- EXPANSION JOINTS SHALL BE SHOP ASSEMBLED AND SHIPPED AS ONE UNIT.
- FOR ABUTMENT REINFORCEMENT DETAILS, SEE TYPICAL EXPANSION ABUTMENT REINFORCEMENT, BRIDGE SHEET C-40.
- FOR DECK SLAB REINFORCEMENT, SEE THE TRANSVERSE SECTION AND DECK REINFORCEMENT PLANS FOR EACH BRIDGE.
- THE DIMENSION FROM END OF EXISTING STRINGER TO END OF NEW DECK SLAB SHALL BE 3 1/2' ± AT BR 49N AND 4 3/4' ± AT BR 49S.
- WORK THIS SHEET WITH TYPICAL END OF DECK SLAB DETAILS, BRIDGE SHEET C-15.

BRIDGE	LOCATION	DIM "B"	DIM "C"
43N	ABUT.2	1'-2"	5'3/8"
43S	ABUT.1	1'-2"	5'3/8"
49N	ABUT.2	1'-1"	4'3/8"
49S	ABUT.2	1'-1"	4'3/8"
50N	ABUT.2	1'-2"	5'3/8"
50S	ABUT.1	1'-2"	5'3/8"
51N	ABUT.2	1'-2"	5'3/8"
51S	ABUT.2	1'-2"	5'3/8"

\* THESE DIMENSIONS ARE THEORETICAL AND MAY CHANGE DEPENDING UPON THE OUTCOME OF THE STRINGER PROFILES.

**STATE OF VERMONT**  
**AGENCY OF TRANSPORTATION**

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

**TYPE "H" ABUTMENT JOINT DETAILS (1 OF 3)**

Designed By	P.W. SZUSTAK	Drawn By	R.A. BOTZENHART
Checked By	Date	Bridge Design Supervisor	Date
J.P. HALSTEAD	10/99	J.P. HALSTEAD	10/99
PROJECT	BOLTON	PROJECT NO.	IM-089-2(29)
TVGA CAD Drawing No.	h-jointd	Date	10/99
Bridge Sheet No.	C-28	Sheet	28 of 307