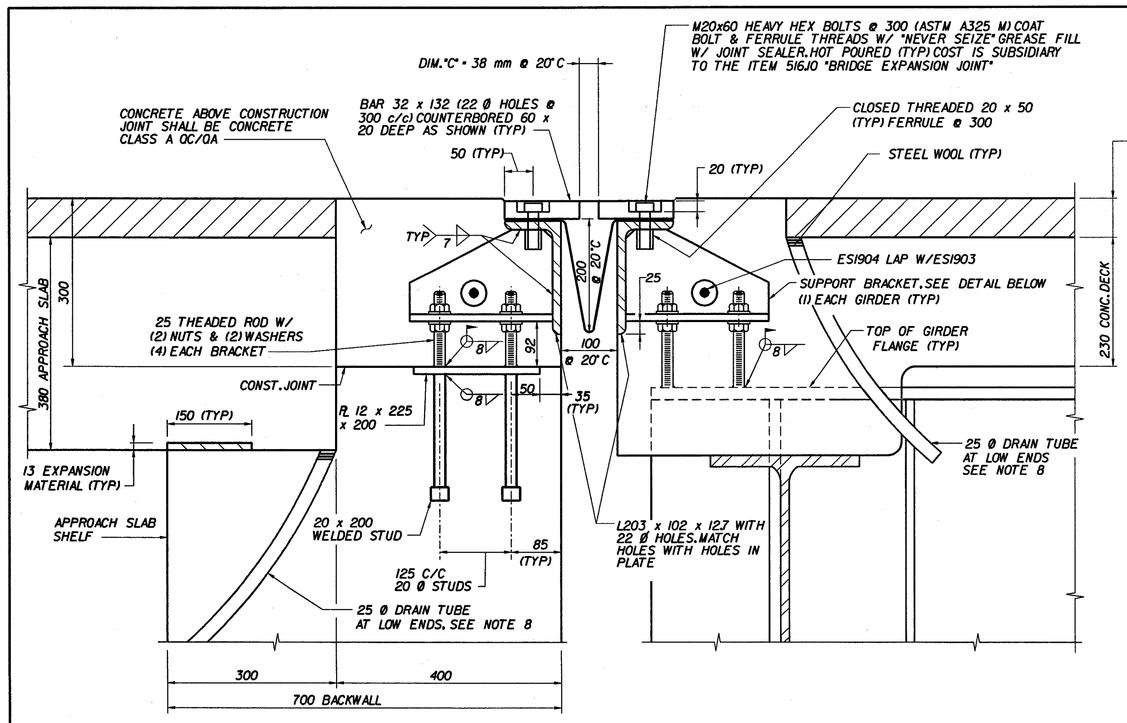
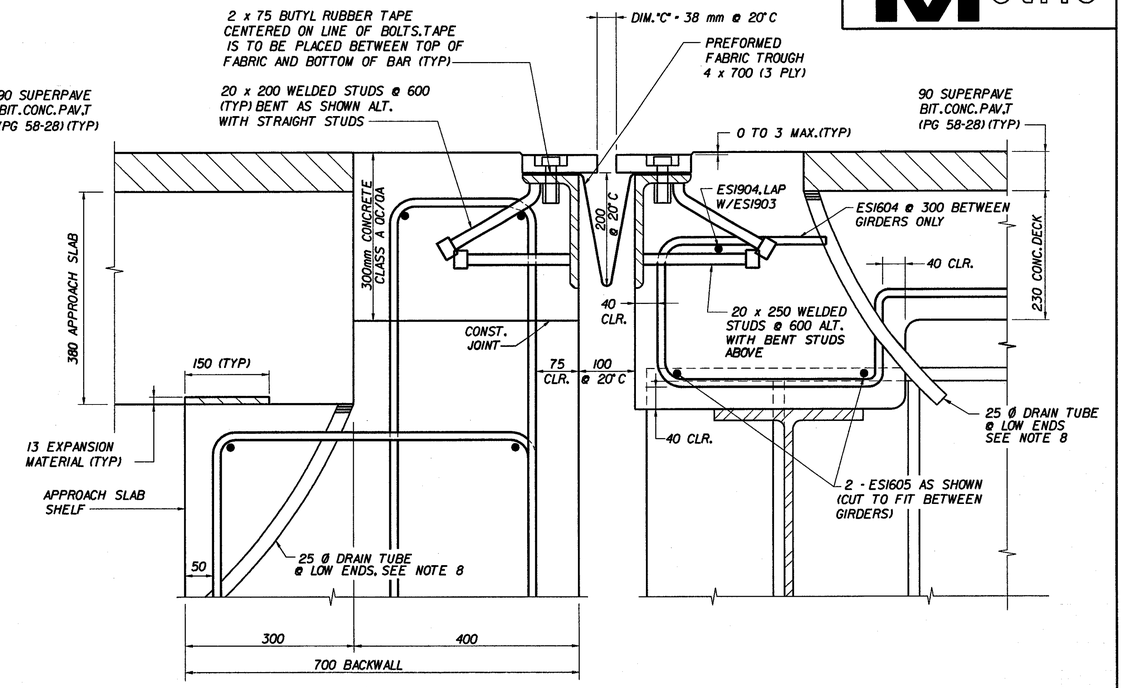
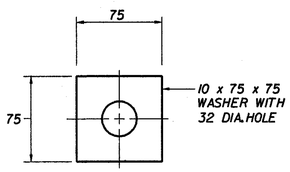


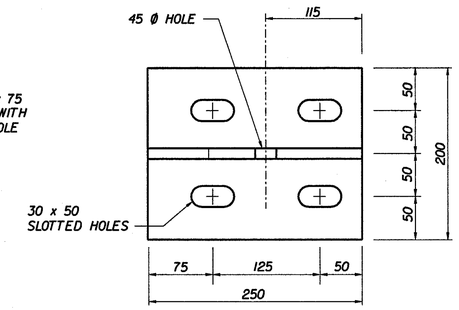


B BR419 **ABUTMENT I SECTION**
1m 0 1m
1:5

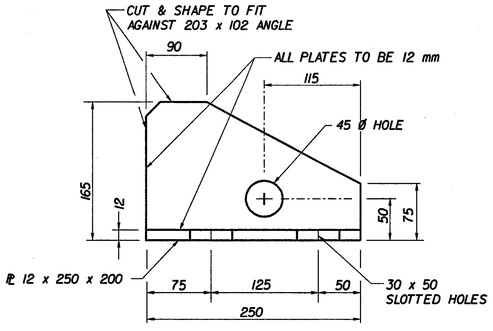
C BR419 **ABUTMENT I SECTION**
1m 0 1m
1:5



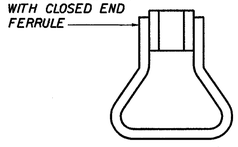
WASHER FOR BRACKET
N.T.S.



BRACKET PLAN
N.T.S.



BRACKET ELEVATION
N.T.S.



ANCHOR FERRULE DETAIL
N.T.S.

TEMP. °C	DIM."C" AT JOINT (mm)
40	25
30	31
20	38
10	44
0	50
-10	57
-20	63

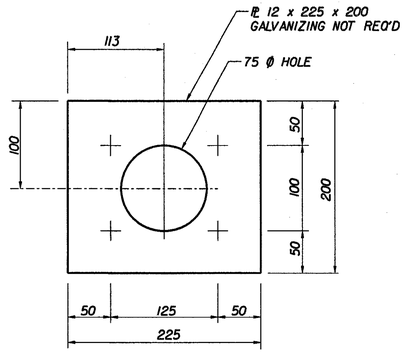


PLATE PLAN VIEW
N.T.S.

BRIDGE EXPANSION JOINT NOTES:

1. EXPANSION JOINTS SHALL MEET THE REQUIREMENTS OF SECTION 516, EXPANSION DEVICES AND PAID AS ITEM 516.10 BRIDGE EXPANSION JOINT. ALL STRUCTURAL STEEL FOR THE BRIDGE EXPANSION JOINTS SHALL BE AASHTO M 270M, GRADE 250 GALVANIZED OR METALIZED. HIGH STRENGTH BOLTS, NUTS AND WASHERS SHALL CONFORM TO AASHTO M 164M (ASTM A325M), TYPE 1 GALVANIZED PER SUBSECTION 714.05. THREADED RODS, BOLTS, NUTS AND FERRULES SHALL CONFORM TO SUBSECTION 714.04.
2. PREFORMED FABRIC MATERIAL SHALL BE CONTINUOUS AND SHALL CONFORM TO SUBSECTION 707.07.
3. BUTYL RUBBER TAPE SHALL CONFORM TO SUBSECTION 707.12.
4. THE FINAL FINISH OF THE EXPANSION DEVICE SHALL BE COVERED DURING THE PLACING OF BRIDGE DECK CONCRETE.
5. ALL STEEL COMPONENTS SHALL BE AASHTO M270/M 270M, GRADE 250. ALL COMPONENTS EXCEPT 12 x 225 x 200 PLATE ATTACHED TO BACKWALL SHALL BE GALVANIZED OR METALIZED AS PER SUBSECTION 506.15 (a) OR (b) UNLESS OTHERWISE NOTED.
6. THE ITEM 516.10 "BRIDGE EXPANSION JOINT" SHALL INCLUDE THE FABRICATION AND ERECTION OF THE COMPLETE JOINT ASSEMBLY INCLUDING ALL STEEL PLATE ANGLES, WELDED STUDS OR RODS, PREFORMED FABRIC MATERIAL, BUTYL RUBBER TAPE AND OTHER MISCELLANEOUS MATERIAL.
7. ALL STEEL SURFACES THAT WILL BE EMBEDDED IN CONCRETE SHALL BE COATED WITH AN EPOXY BONDING COMPOUND IN ACCORDANCE WITH SECTION 530. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 516.10 "BRIDGE EXPANSION JOINT".
8. THE COST OF 25 mm DIA. PLASTIC TUBE IS SUBSIDIARY TO ITEM 501.221 "CONCRETE CLASS A QC/QA". CARE SHALL BE TAKEN TO KEEP TUBE CLEAR DURING CONSTRUCTION. THE TOP OF THE DRAIN TUBES SHALL BE TEMPORARILY PLUGGED WITH STEEL WOOL AND RECESSED 6 mm BELOW THE TOP OF THE CONCRETE AND THE BOTTOM LOCATED 150 mm BELOW THE BOTTOM FLANGE OF THE NEAREST GIRDER (LOW SIDE OF BRIDGE). THE TOP OF THE PLASTIC TUBE SHALL BE DRILLED OPEN AFTER CONCRETE PLACEMENT. THE DRAIN TUBES SHALL BE FASTENED TO THE GIRDERS USING A METHOD APPROVED BY THE ENGINEER. PLASTIC TUBING WILL MEET THE REQUIREMENTS OF SUBSECTION 740.01-PLASTIC PIPE, FLEXIBLE.
9. FOR CLARITY, NOT ALL REINFORCEMENT IS SHOWN.
10. THE 203 x 102 x 12.7 ANGLE SHALL BE FURNISHED AS ONE CONTINUOUS PIECE. THE 32 x 132 BAR SHALL BE FURNISHED IN TWO EQUAL PIECES.

FILE NAME = u:\35731S\br400\jntsht-2.PLT
DATE/TIME = 10/17/2001
USER = BGA

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of BENNINGTON	Bridge No. BR400
Highway No. VT. RTE. 9	Log Sta.
	Surv. Sta. 14+140

VT. RTE. 9 OVER AIRPORT BROOK WEST

BRIDGE JOINT DETAILS-2

Designed By M. GOGUEN	Drawn by B. WEATHERBY
Checked By P. PERKINS 11/01 Date	Bridge Design Supervisor M. OLSTAD Date 11/01
PROJECT BENNINGTON-HOOSICK	PROJECT NO. D.P.I. 0146(11)
I.G.C. Info.	
Bridge Sheet No. BR420	Sheet 209 OF 473

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