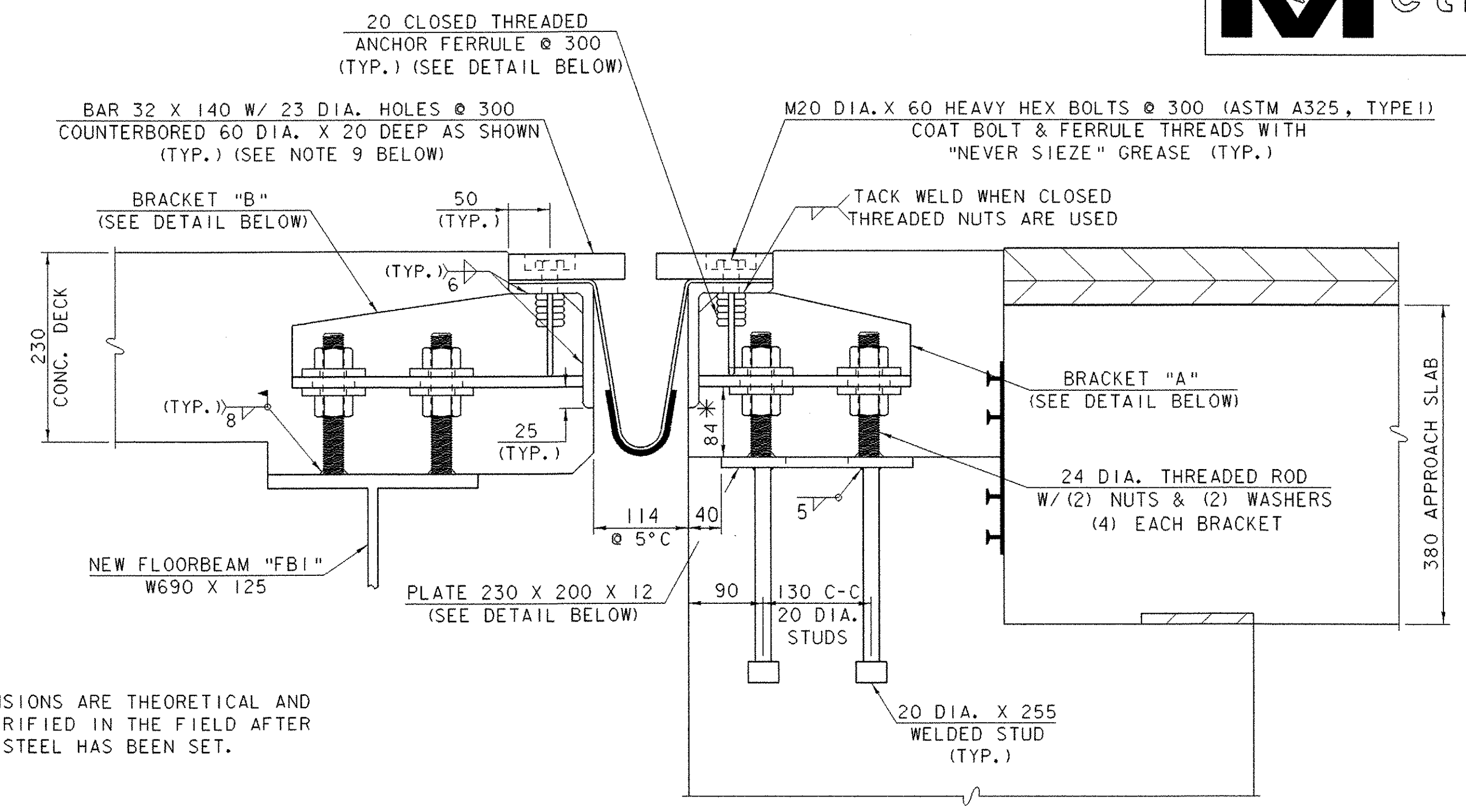
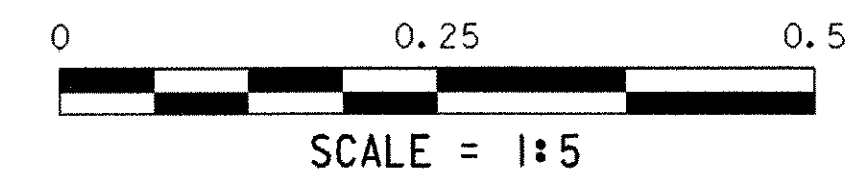
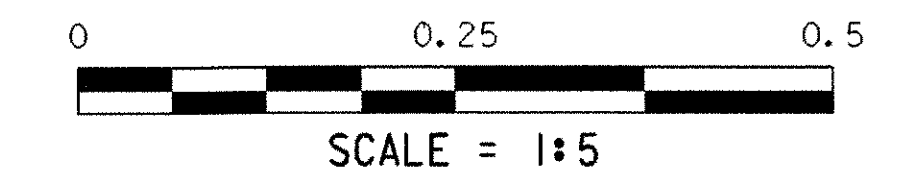


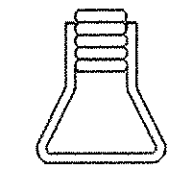
TYPICAL SECTION BETWEEN BRACKETS



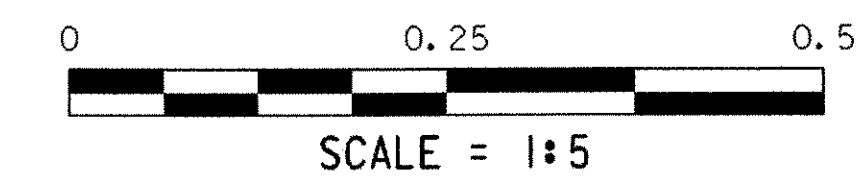
TYPICAL SECTION AT BRACKETS



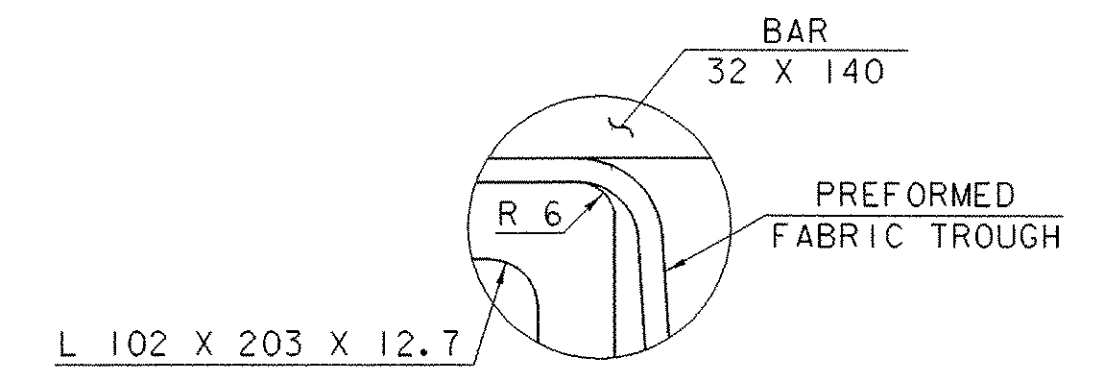
* THESE DIMENSIONS ARE THEORETICAL AND SHALL BE VERIFIED IN THE FIELD AFTER STRUCTURAL STEEL HAS BEEN SET.



ANCHOR FERRULE DETAIL



NOTE: CLOSED THREADED FERRULE NUTS WITHOUT ANCHOR LOOPS MAY BE USED.

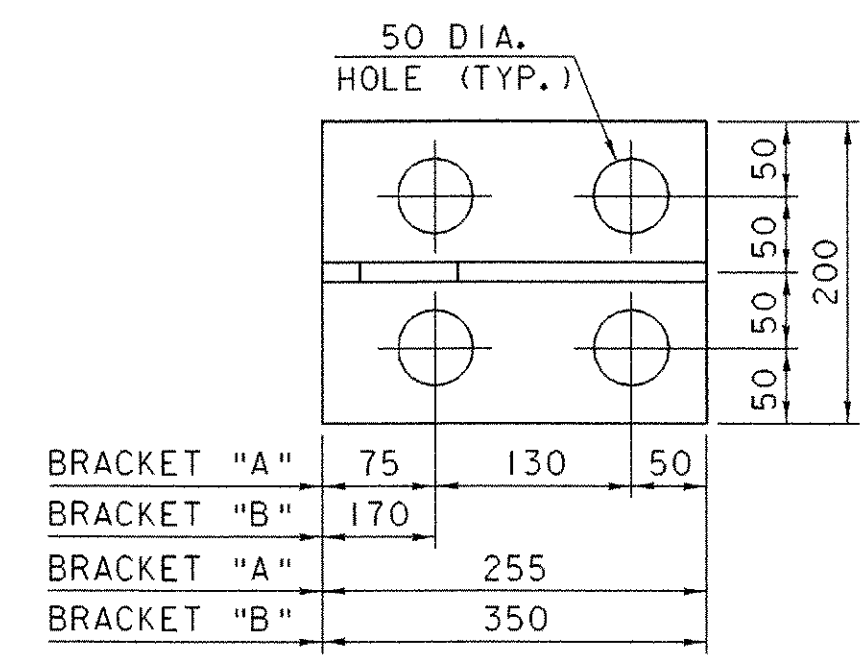


DETAIL "A"

NOT TO SCALE

EXPANSION JOINT NOTES

1. DETAILS ON THIS SHEET ARE FOR ITEM 516.10, "BRIDGE EXPANSION JOINT".
2. PREFORMED FABRIC MATERIAL SHALL BE CONTINUOUS AND SHALL CONFORM TO SUBSECTION 707.07 OF THE STANDARD SPECIFICATIONS.
3. BUTYL RUBBER TAPE SHALL CONFORM TO AASHTO SPECIFICATION M198, TYPE B.
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 M270M/M270 GRADE 250 GALVANIZED OR METALIZED AS PER SUBSECTION 506.15 OF THE STANDARD SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
6. THE 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, BUTYL RUBBER TAPE AND ANY OTHER MISCELLANEOUS MATERIAL, LABOR AND INCIDENTALS NECESSARY TO INSTALL JOINT.
7. THE 102 X 152 X 12.7 ANGLES SHALL BE FURNISHED AS ONE CONTINUOUS PIECE. THE 32 X 140 BARS EACH SIDE OF THE JOINT SHALL BE PROVIDED IN TWO EQUAL LENGTHS.
8. CONCRETE CONTACT SURFACES SHALL BE COATED WITH AN EPOXY BONDING COMPOUND MEETING THE REQUIREMENTS OF SUBSECTION 719.02 OF THE STANDARD SPECIFICATIONS. PAYMENT SHALL BE MADE SUBSIDIARY TO ITEM 516.10, "BRIDGE EXPANSION JOINT".
9. COUNTERBORED HOLES SHALL BE FILLED WITH HOT POURED JOINT SEALER AFTER BOLT INSTALLATION. THE SEALER SHALL MEET THE REQUIREMENTS OF SUBSECTION 707.04 (a) OF THE STANDARD SPECIFICATIONS. PAYMENT FOR THE SEALER SHALL BE MADE SUBSIDIARY TO ITEM 516.10, "BRIDGE EXPANSION JOINT".
10. PAYMENT FOR WATERSTOP AND ITS INSTALLATION SHALL BE MADE SUBSIDIARY TO ITEM 501.33, "CONCRETE, HIGH PERFORMANCE CLASS A".
11. A DRIP BEAD OF 6 X 180 STRIP OF PREFORMED MATERIAL SHALL BE CEMENTED TO THE BOTTOM OF THE FABRIC TROUGH USING AN ADHESIVE APPROVED BY THE MANUFACTURER. THE DRIP BEAD SHALL BE APPLIED 25 FROM THE DOWNSPOUT END OF THE TROUGH.
12. THE FABRIC TROUGH SHALL BE THOROUGHLY CLEANED AND FLUSHED AFTER PAVING OPERATIONS.
13. THE EXPANSION JOINT SHALL BE SHOP ASSEMBLED AND SHIPPED AS ONE UNIT.



BRACKET PLAN

SCALE = 1:5

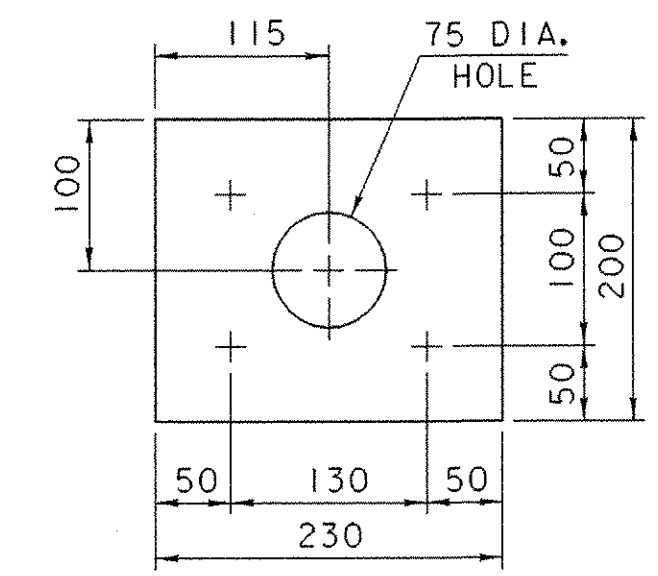
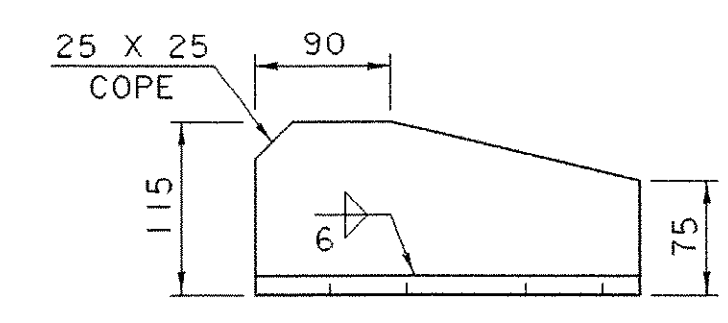


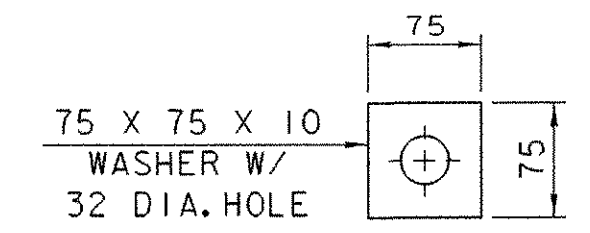
PLATE PLAN

SCALE = 1:5 (NO GALVANIZING REQUIRED)



BRACKET ELEVATION

SCALE = 1:5



WASHER FOR BRACKET

SCALE = 1:5

ALL PLATES 12 THICK

TEMP	"A" DIST.
-25°C	56
-15°C	50
-5°C	44
5°C	38
15°C	32
25°C	26
35°C	20
45°C	14

"A" IS THE FINAL SETTING AFTER ALL DEAD LOADS ARE IN PLACE.

EXPANSION JOINT DETAILS

PROJECT NAME:	BROOKLINE NEWFANE
PROJECT NUMBER:	BHO 1442 (25)
FILE NAME:	951278\Structures\sj278ejd.1
PROJECT MANAGER:	R. WHITCOMB
DESIGNED BY:	G. ROY
PLOT DATE:	26-JUN-2003
DRAWN BY:	G. ROY
CHECKED BY:	M. LOZIER
SHEET	38 OF 78