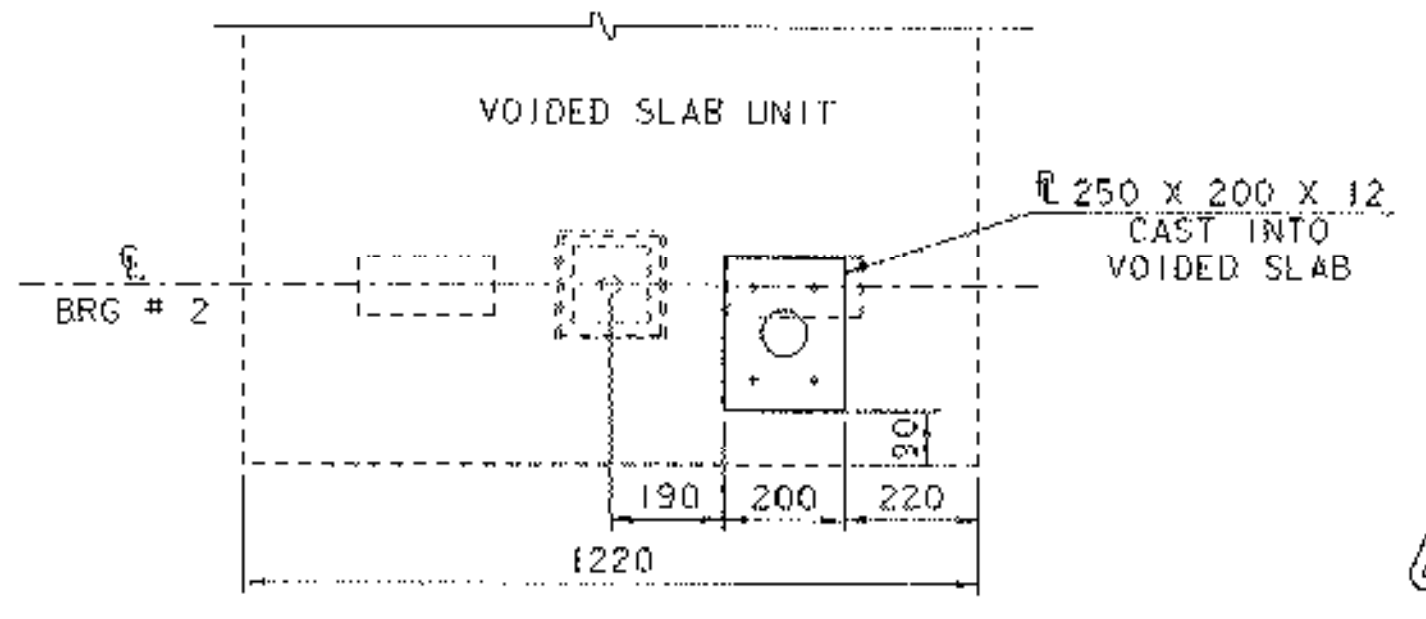


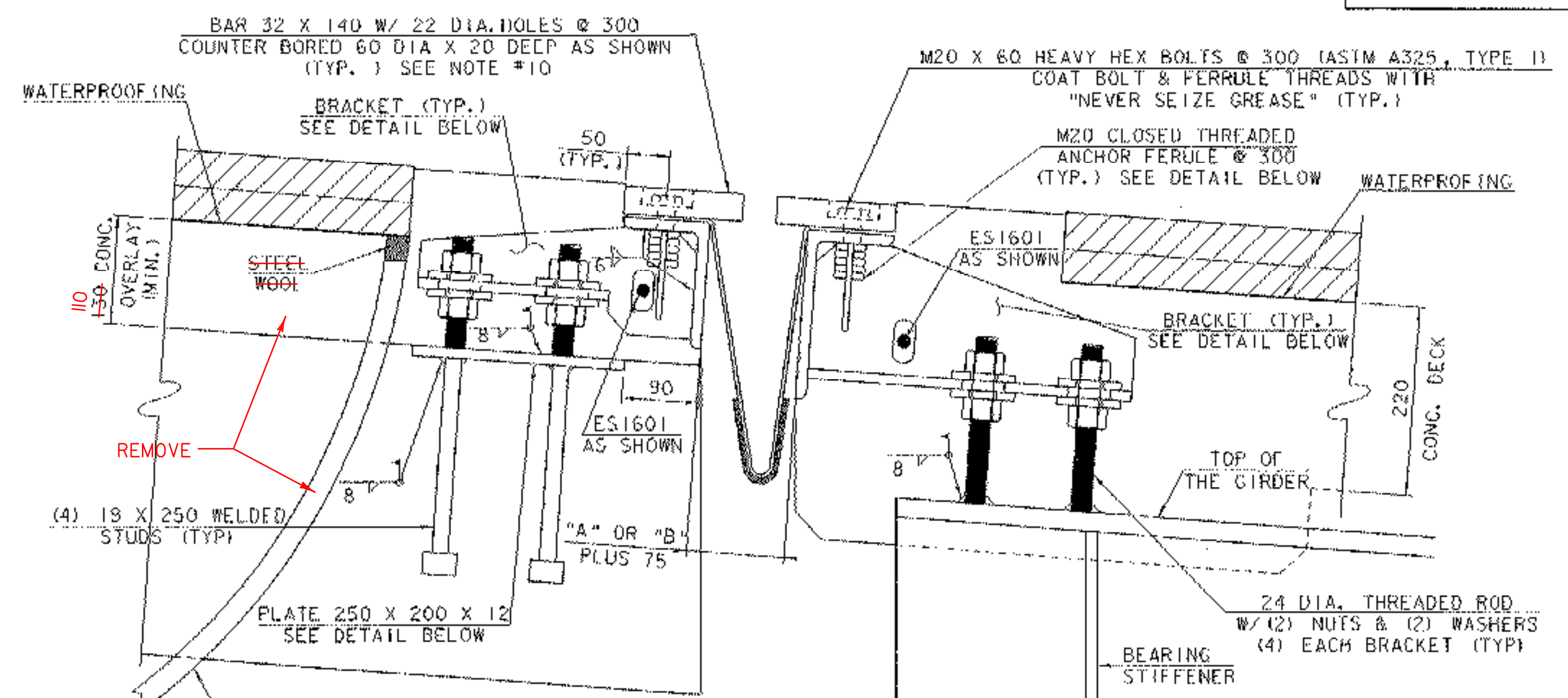
**TYPICAL SECTION BETWEEN GIRDERS**  
SCALE 1 : 5

\* THESE DIMENSIONS ARE THEORETICAL AND MAY CHANGE DEPENDING UPON THE OUTCOME OF BEAM PROFILE.

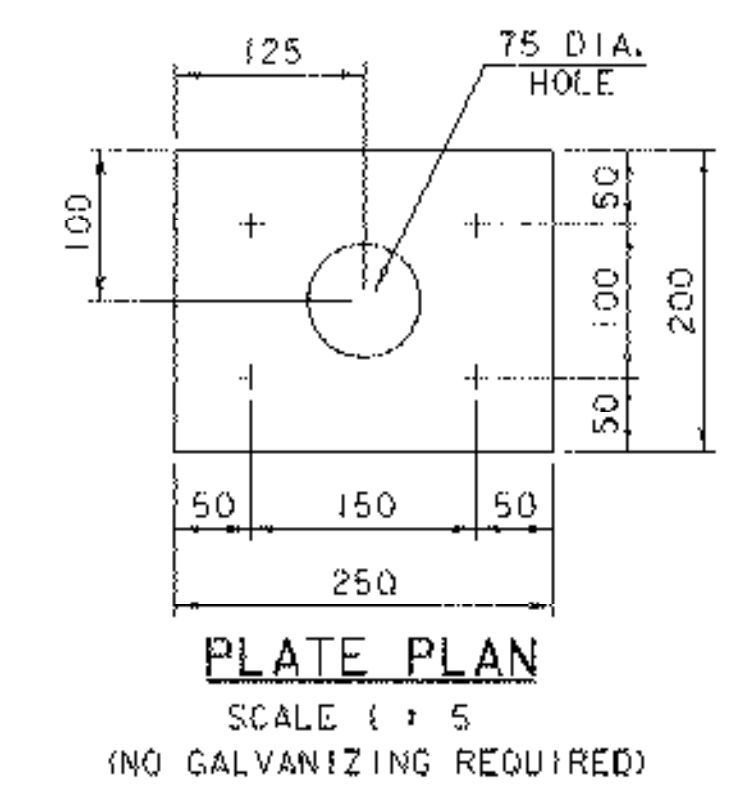
**TYPICAL PLATE LOCATION @ VOIDED SLAB UNITS**  
NOT TO SCALE.



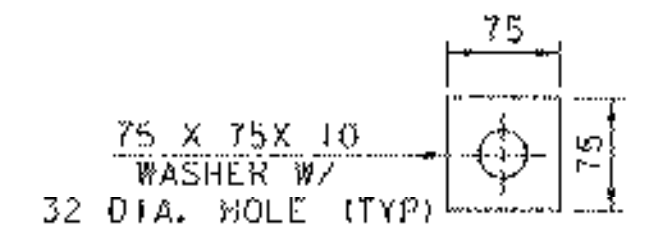
**ANCHOR FERRULE**  
SCALE 1 : 5



**TYPICAL SECTION AT GIRDERS**  
SCALE 1 : 5

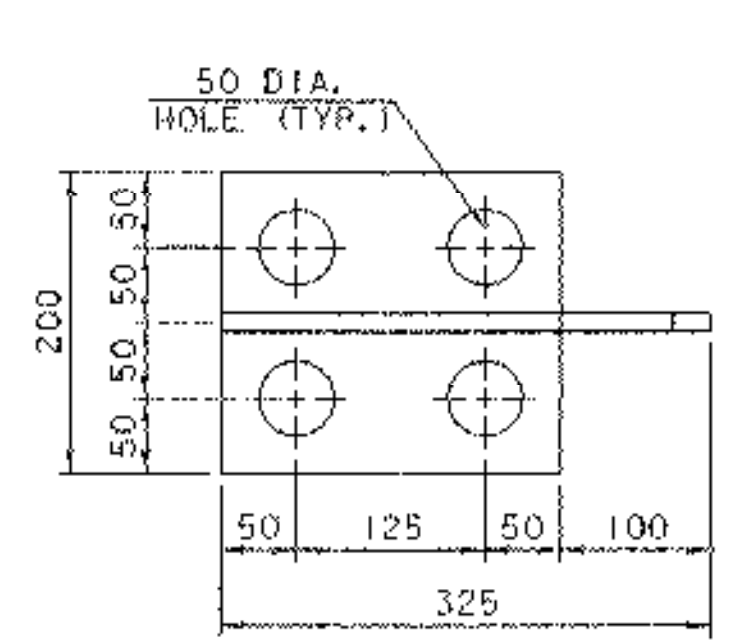


**PLATE PLAN**  
SCALE 1 : 5  
(NO GALVANIZING REQUIRED)

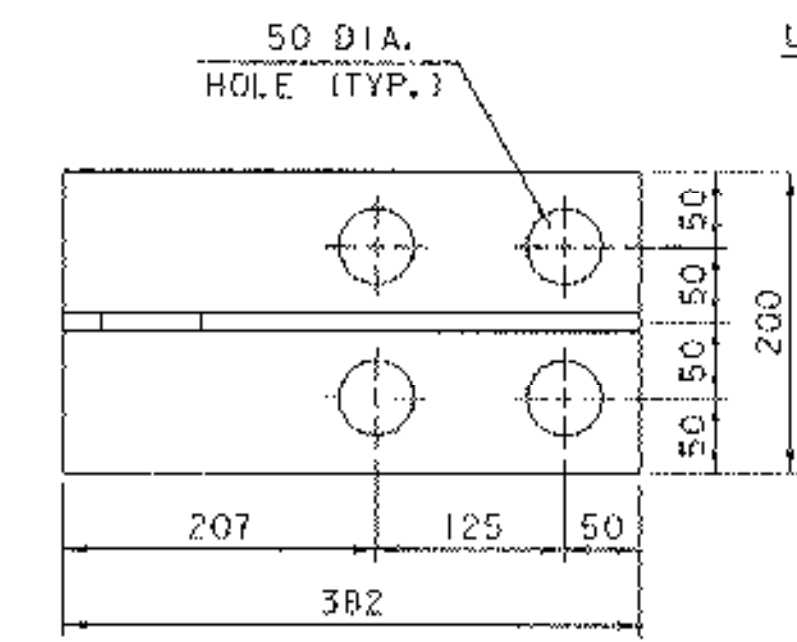


**WASHER FOR BRACKET**  
SCALE 1 : 5

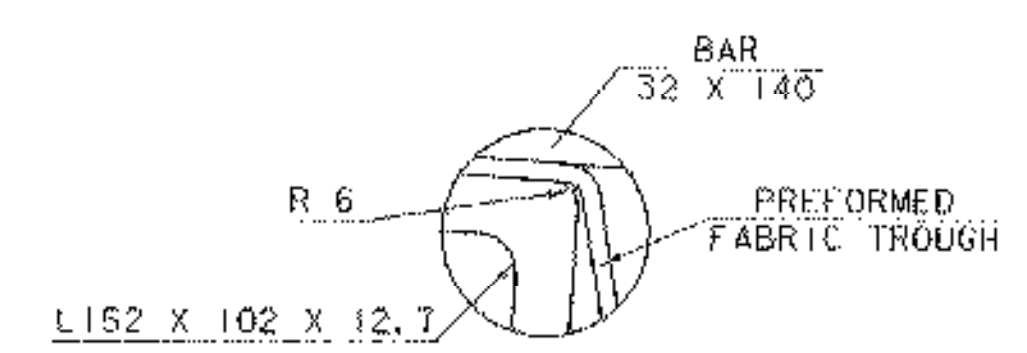
ALL PLATES 12 mm THICK



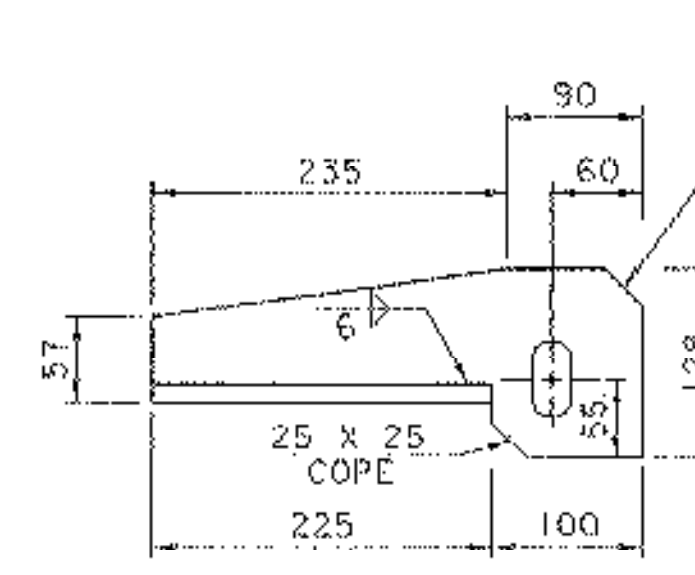
**VOIDED SLAB BRACKET PLAN**  
SCALE 1 : 5



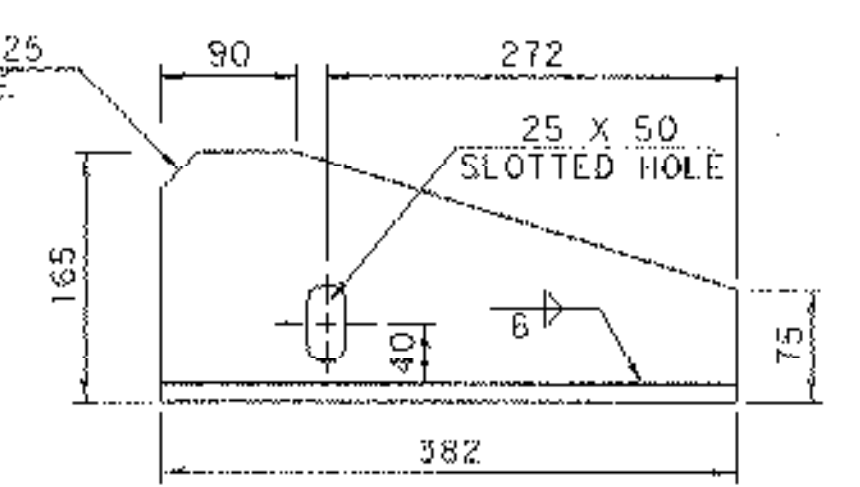
**GIRDER BRACKET PLAN**  
SCALE 1 : 5



**DETAIL "A"**  
NOT TO SCALE



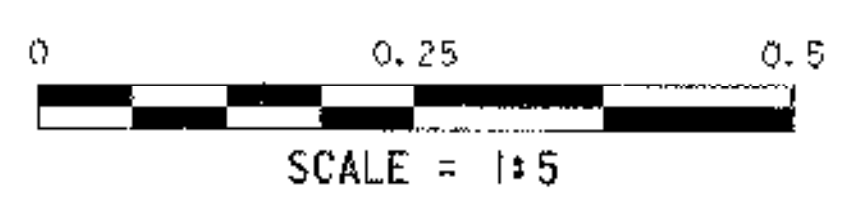
**VOIDED SLAB BRACKET ELEVATION**  
SCALE 1 : 5



**GIRDER BRACKET ELEVATIONS**  
SCALE 1 : 5

TEMP	"A" DIST.	"B" DIST.
-15°C	82	55
-5°C	77	50
5°C	72	45
15°C	67	40
25°C	62	35
35°C	57	30
45°C	52	25

"A" IS THE SETTING BEFORE ANY DEAD LOADS ARE IN PLACE  
"B" IS THE FINAL SETTING AFTER ALL DEAD LOADS ARE IN PLACE



**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.
3. BUTYL RUBBER TAPE SHALL CONFORM TO AASHTO SPECIFICATION M-198, TYPE 11.
4. THE FINAL FINISH OF THE EXPANSION DEVICE SHALL BE COVERED DURING THE PLACING OF THE BRIDGE DECK CONCRETE.
5. ALL STEEL COMPONENTS SHALL BE AASHTO M270/270M GRADE 250 GALVANIZED OR METALIZED AS PER SUBSECTION 506.15 (a) OR (b) UNLESS OTHERWISE SPECIFIED.
6. THE ITEM "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 THE JOINT.
7. THE 102 X 203 X 12.7 AND 102 X 192 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. COAT CONCRETE CONTACT SURFACES WITH EPOXY BONDING COMPOUND MEETING THE REQUIREMENTS OF SUBSECTION 719.02. PAYMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 516.10 "BRIDGE EXPANSION JOINT".
9. A 25 DIAMETER PLASTIC DRAIN TUBE SHALL BE INSTALLED AS SHOWN AT THE FACE OF THE CURB. THE UPPER END IS TO BE PLUGGED WITH STEEL WOOL AND THE LOWER END IS TO BE EXTENDED BELOW THE BOTTOM OF THE VOIDED SLAB AND 900 mm AWAY FROM THE FACE OF THE PIER. THE DRAIN TUBES SHALL BE FASTENED TO THE VOIDED SLAB USING A METHOD APPROVED BY THE ENGINEER. THE PLASTIC DRAIN SHALL MEET REQUIREMENTS OF THE SECTION 740.01.
10. FILL COUNTERBORED HOLES WITH HOT POURED JOINT SEALER AFTER BOLT INSTALLATION. PAYMENT FOR THE WORK SHALL BE INCIDENTAL TO ITEM 516.10.
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 mm FROM THE DOWN SPOUT ENDS OF THE TROUGH.
12. FABRIC TROUGH SHALL BE THOROUGHLY CLEANED AND FLUSHED AFTER PAVING OPERATIONS.
13. THE EXPANSION JOINT SHALL BE SHOP ASSEMBLED AND SHIPPED AS ONE UNIT.
14. THE THREADED RODS SHALL MEET THE REQUIREMENTS OF A 307, GR. C.

PROJECT: <b>BETHEL</b>	PROJECT NO. : <b>BRF0241 (33) C/2</b>
DESIGN FILE NAME: 02c180/structure/s02c180expjoint.dgn	PLOT DATE: 15-APR-2005
IPARM FILE NAME: expjoint.i	DESIGNED BY: M. GAGULIC
SQUAD LEADER: C. P. WILLIAMS	DRAWN BY: M. GAGULIC
EXPANSION JOINT TYPICAL SECTION	CHECKED BY: K. M. HIGGINS
	SHEET: 44 OF 130