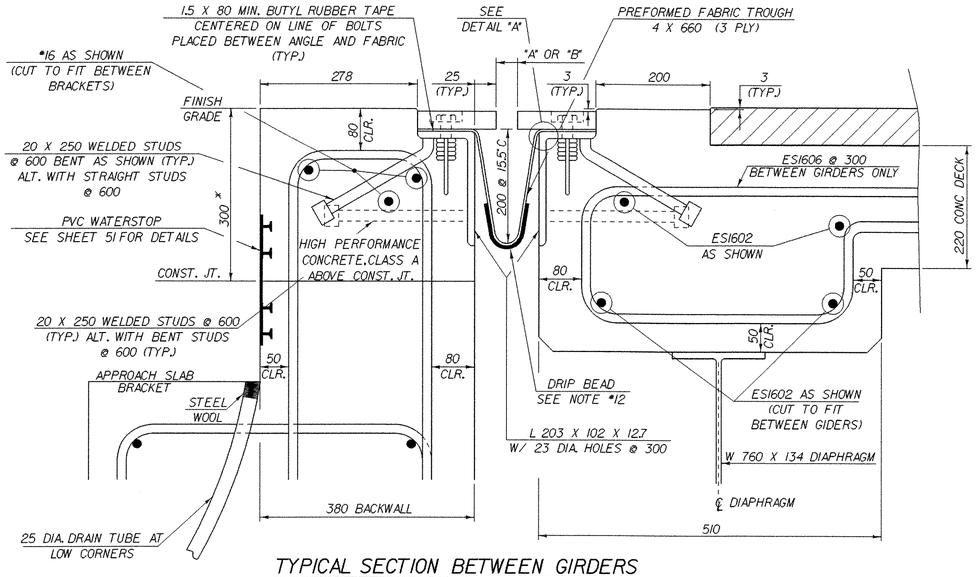
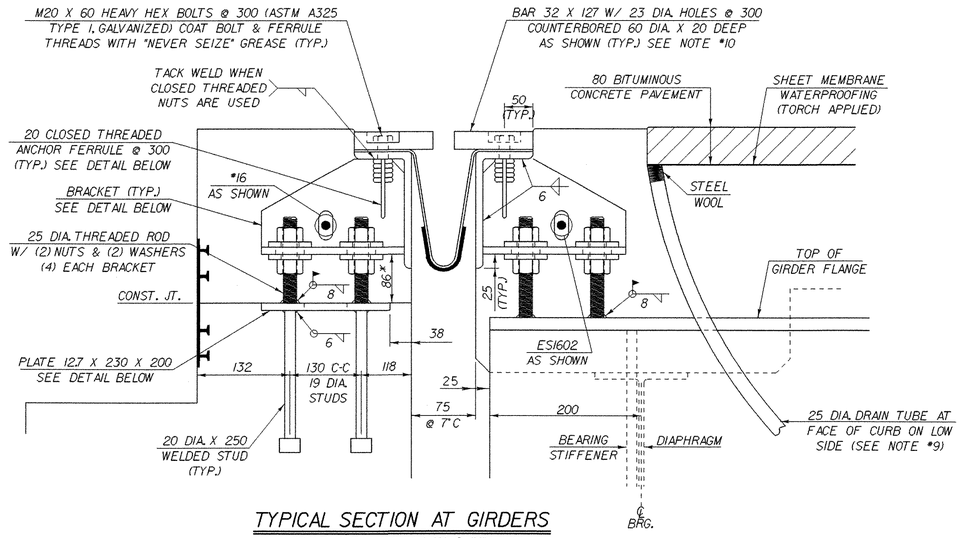


TYPICAL SECTION BETWEEN GIRDERS

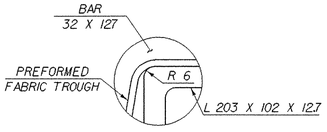
SCALE: 1:5 (NORMAL TO ℄ BEARING)



TYPICAL SECTION AT GIRDERS

SCALE: 1:5 (NORMAL TO ℄ BEARING)

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



DETAIL "A"

NOT TO SCALE

ANCHOR FERRULE DETAIL

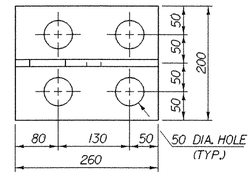
SCALE: 1:5

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

TEMP	"A" DIST	"B" DIST
-18°C	51	35
-9°C	48	32
-1°C	44	29
7°C	41	25
16°C	38	22
24°C	35	19
32°C	32	16
41°C	29	13

"A" IS THE SETTING BEFORE DEAD LOADS ARE IN PLACE.

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



BRACKET PLAN

SCALE: 1:5

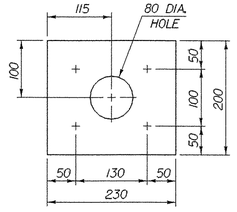
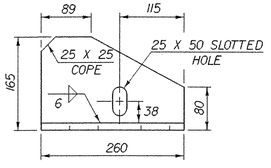


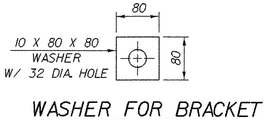
PLATE PLAN

SCALE: 1:5
(NO GALVANIZING REQUIRED)



BRACKET ELEVATION

SCALE: 1:5



WASHER FOR BRACKET

SCALE: 1:5

ALL PLATES 12.7 THICK

NOTES

1. DETAILS ON THIS SHEET ARE FOR ITEM 516.10 "BRIDGE EXPANSION JOINT (VERMONT)".
2. PREFORMED FABRIC MATERIAL SHALL BE CONTINUOUS AND SHALL CONFORM TO SUBSECTION 707.07 OF THE STANDARD SPECIFICATION.
3. BUTYL RUBBER TAPE SHALL CONFORM TO AASHTO SPECIFICATION M-198, TYPE II.
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 506.04 OF THE STANDARD SPECIFICATION AS MODIFIED BY THE GENERAL SPECIAL PROVISIONS UNLESS OTHERWISE SPECIFIED.
6. THE ITEM "BRIDGE EXPANSION JOINT (VERMONT)" 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.
7. THE 203 X 102 X 12.7 ANGLES SHALL BE FURNISHED AS ONE CONTINUOUS PIECE. THE 32 X 127 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 (VERMONT)".
9. A 25mm DIAMETER PLASTIC DRAIN TUBE (PER STANDARD SPECIFICATION 740.07) 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 GIRDER. THE DRAIN TUBES SHALL BE FASTENED TO THE GIRDERS USING A METHOD APPROVED BY THE ENGINEER. PAYMENT FOR DRAIN TUBES AND THEIR INSTALLATION SHALL BE MADE INCIDENTAL TO ITEM 501.33, HIGH PERFORMANCE CONCRETE, CLASS A.
10. FILL COUNTERBORED HOLES WITH HOT POURED JOINT SEALER (STANDARD SPECIFICAION 707.04 AS MODIFIED BY THE GENERAL SPECIAL PROVISIONS) AFTER BOLT INSTALLATION. PAYMENT FOR THE WORK SHALL BE INCIDENTAL TO ITEM 516.10.
11. PAYMENT FOR WATERSTOP SHALL BE SUBSIDIARY TO ITEM 501.33, HIGH PERFORMANCE CONCRETE, CLASS A.
12. A DRIP BEAD OF 6 X 178 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 DOWNSPOUT END OF THE TROUGH.
13. FABRIC TROUGH SHALL BE THOROUGHLY CLEANED AND FLUSHED AFTER PAVING OPERATION.
14. THE EXPANSION JOINT SHALL BE SHOP ASSEMBLED AND SHIPPED AS ONE UNIT.
15. ALL BOLTS, STUDS AND RELATED HARWARE, EXCEPT AS NOTED SHALL BE ASTM A-307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-153 (AASHTO M232).

SHEET NAME: **EXPANSION JOINT DETAILS**

PROJECT NAME: LEICESTER
PROJECT NUMBER: BRF 0160(3)S
HIGHWAY NO.: TH 1
BRIDGE NO.: 6
OVER: OTTER CREEK

FILE NAME: /PW/95j288/sj288exp.dgn
PROJECT MANAGER: R. R. WHITCOMB
DESIGNED BY: C. CARLSON
BRIDGE SHEET NUMBER:
PLOT DATE: 17-AUG-2005
DRAWN BY: T. FILLBACH
IPARM NAME: sj288exp.I
SHEET 53 OF 90