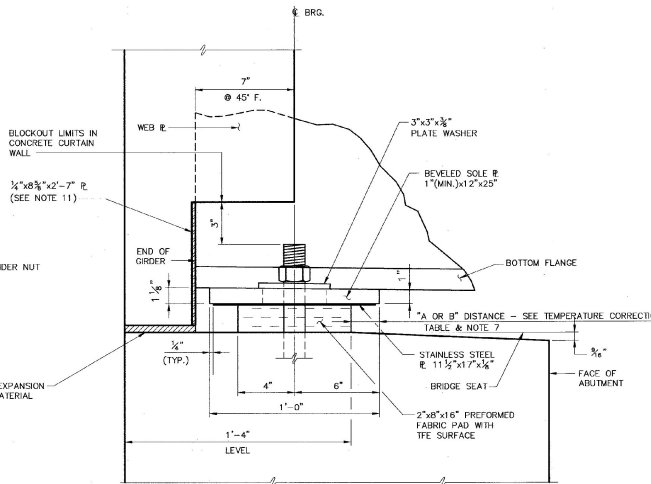


FRONT ELEVATION

SCALE: 3" = 1'-0"

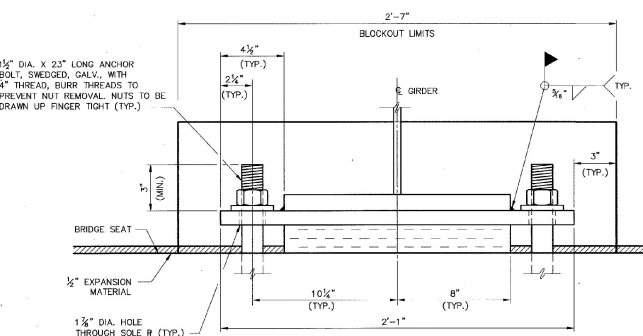


SIDE ELEVATION

SCALE: 3" = 1'-0"

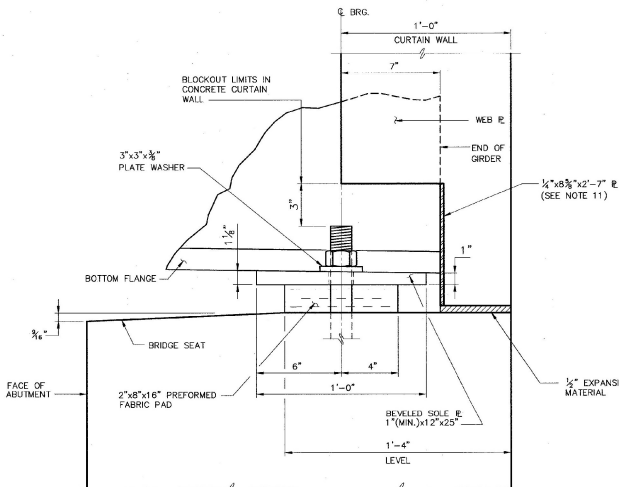
EXPANSION BEARING (ABUT. 1)

NUMBER REQUIRED = 6



FRONT ELEVATION

SCALE: 3" = 1'-0"



SIDE ELEVATION

SCALE: 3" = 1'-0"

FIXED BEARING (ABUT. 2)

NUMBER REQUIRED = 6

NOTES:

- BEARINGS SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTION 531.
- BEARINGS SHALL BE PAID FOR UNDER ITEM 531.10, BEARING DEVICE ASSEMBLY.
- SHOP DRAWINGS CONFORMING TO SUBSECTION 531.03 SHALL BE SUBMITTED TO INCLUDE WELDING AND BONDING PROCEDURES.
- THE CONCRETE SURFACE UNDER THE BEARINGS SHALL BE LEVEL.
- THE FIELD WELD CONNECTING THE BOTTOM FLANGE WITH THE BEARING DEVICE SHALL BE MADE WITH E 7018 RODS.
- BRIDGE SEAT ELEVATIONS MAY BE REVISED TO ACCOMMODATE AN ALTERNATE CONFIGURATION. THE CONTRACTOR SHALL SUBMIT SKETCHES OF THE BRIDGE SEAT REVISIONS FOR APPROVAL OF THE ENGINEER. REVISIONS TO CONCRETE AND REINFORCING STEEL DIMENSIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, AND NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.
- THE "A" DISTANCE IS THE SOLE PLATE ADJUSTMENT TO BE USED BEFORE DEAD LOAD IS ADDED TO THE BEAMS. THE "B" DISTANCE IS THE SOLE PLATE ADJUSTMENT TO BE USED AFTER THE DECK AND CURBS HAVE BEEN POURED. THE 3/8" DIFFERENCE IS THE ELONGATION DUE TO DEAD LOAD DEFLECTION OF SLAB, CURB AND PAVEMENT.
- DESIGN CRITERIA:
 - PREFORMED FABRIC PAD PLATE TO CONCRETE DESIGN PRESSURE = 1000 PSI MAXIMUM.
 - MINIMUM ALLOWABLE DESIGN ROTATION = 0.015 RADIAN.
 - HORIZONTAL CAPACITY SHALL BE A MINIMUM 10% OF VERTICAL LOAD.
 - DEAD LOAD = 37.7 KIPS.
SUPERIMPOSED DEAD LOAD = 15.7 KIPS.
LIVE LOAD PLUS IMPACT = 60 KIPS.
TOTAL DESIGN LOAD PER BEARING = 113 KIPS.
- ALL STEEL IN SOLE PLATES, ANCHOR BOLTS AND WASHERS SHALL BE M270, GRADE 36 GALVANIZED. NUTS SHALL BE HEAVY HEX AND CONFORM TO THE REQUIREMENTS OF ASTM A-307.
- ANCHOR BOLTS SHALL HAVE A MINIMUM OF 15" EMBEDMENT INTO CONCRETE.
- FOR USE AS A BLOCK OUT DURING CURTAIN WALL POUR, TACK WELD 3/4" PLATE TO END OF GIRDER.

TEMPERATURE CORRECTION (° F & INCHES)				
TEMP.	Δ TO MEAN TEMP.	TEMP. CORR.	A	B
+105	-60	-3/8	1 3/8	1 3/8
90	-45	-3/8	1 3/8	1 3/8
75	-30	-3/8	1 3/8	1 3/8
60	-15	-3/8	1 3/8	1 3/8
(MEAN) 45	0	0	2	1 3/8
30	15	3/8	2 3/8	1 3/8
15	30	3/8	2 3/8	2
0	45	3/8	2 3/8	2 3/8

**STATE OF VERMONT
AGENCY OF TRANSPORTATION**

CITY OF BARRE		BRIDGE NO. B-10
STREET NAME BLACKWELL STREET		LOC. STA.
		SURV. STA.
BLACKWELL STREET BRIDGE OVER STEVENS BRANCH		
PLATE GIRDER BEARING DETAILS		
DESIGNED BY V. DeANGELO	DATE	DRAWN BY S. BELANGER
CHECKED BY J. PATUSKY	DATE 12/98	BRIDGE DESIGN SUPERVISOR
PROJECT		PROJECT NO.
BARRE CITY		BRM 6000(13)
BAC DRAWING NO. BLACK10/4	DATE 12/98	
BRIDGE SHEET NO. BR111		SHEET 24 OF 46

BETTIGOLE ANDREWS & CLARK, INC.
Consulting Engineers