

**NOTES**

FOR POT BEARINGS, SEE SPECIAL PROVISIONS.

AT ALL POINTS OF SUPPORT NUTS FOR ANCHOR BOLTS SHALL BE TIGHTENED FINGER TIGHT AND GIVEN AN ADDITIONAL 1/4 TURN. THE THREAD OF THE NUT AND BOLT SHALL THEN BE BURRED WITH A SHARP POINTED TOOL.

WHEN WELDING THE SOLE PLATE TO THE GIRDER, USE TEMPERATURE INDICATING WAX PENS, OR OTHER SUITABLE MEANS, TO ENSURE THAT THE TEMPERATURE OF THE BEARING DOES NOT EXCEED 121°C. TEMPERATURES ABOVE THIS MAY DAMAGE THE TFE OR ELASTOMER.

AFTER BEARING ASSEMBLY IS IN PLACE AND ANCHOR BOLTS HAVE BEEN FINALLY POSITIONED. THEY SHALL BE GROUTED IN PLACE AS SHOWN.

THE CLOSURE PLATE, GROUT PIPE AND STANDARD PIPE FOR THIS ASSEMBLY NEED NOT BE GALVANIZED.

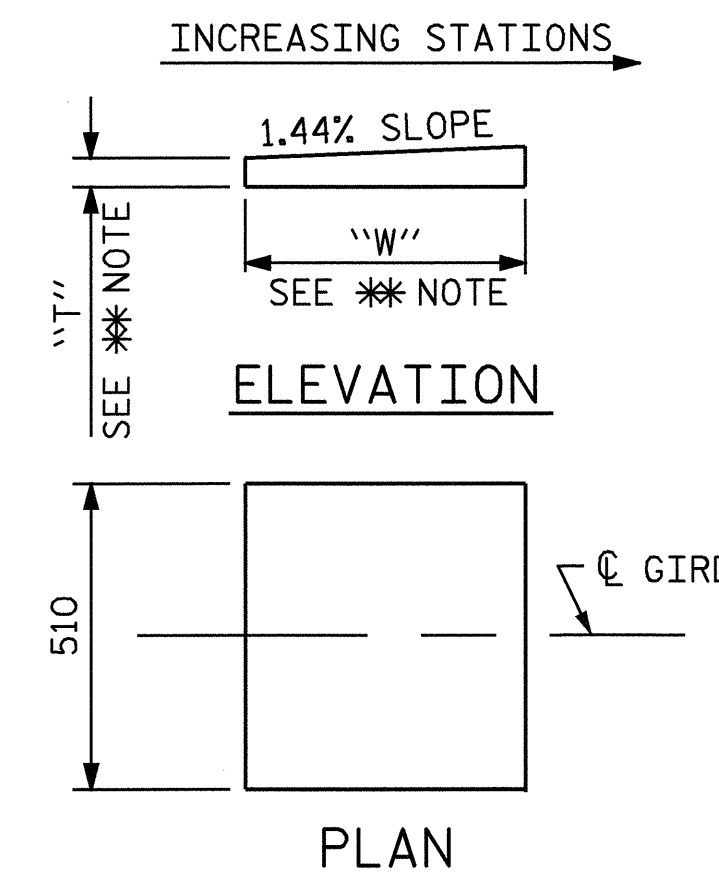
SOLE PLATES SHOULD BE WELDED TO BEAM FLANGES AND ANCHOR BOLTS SHOULD BE GROUTED BEFORE FALSEWORK IS PLACED.

ALL SURFACES OF BEARING PLATES SHALL BE SMOOTH AND STRAIGHT.

FOR THERMAL SPRAYED COATINGS (METALLIZATION), SEE SPECIAL PROVISIONS.

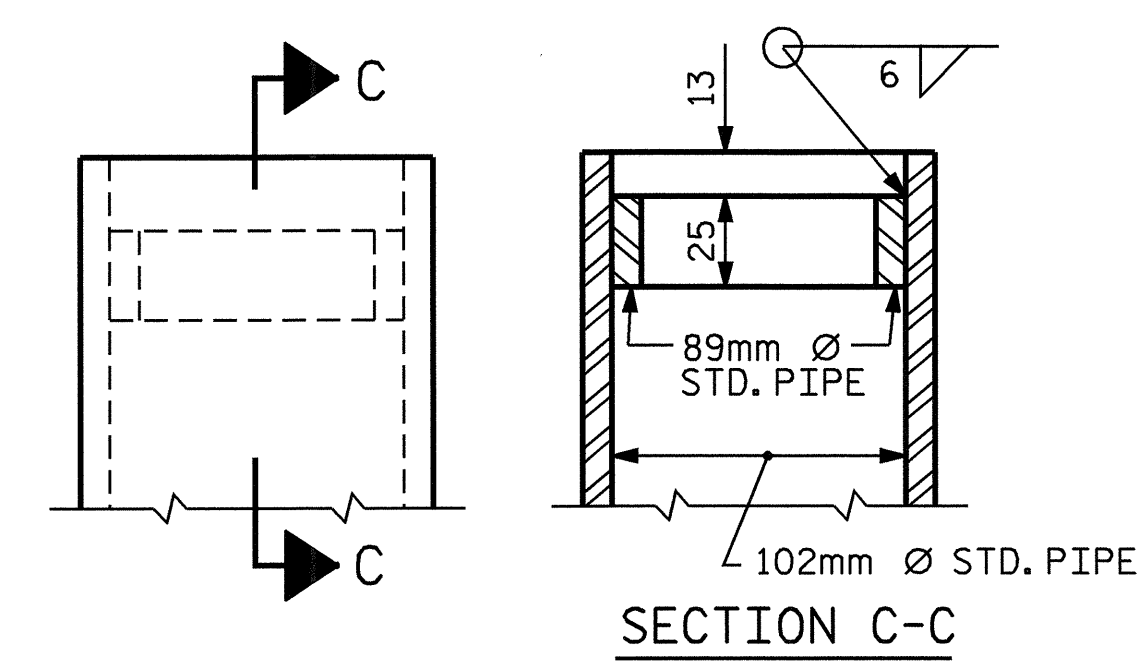
THE CONTRACTOR MAY SUBSTITUTE DISC BEARINGS FOR THE POT BEARINGS SHOWN. FOR OPTIONAL DISC BEARINGS, SEE SPECIAL PROVISIONS.

THE CONTRACTOR SHALL ADJUST THE GIRDER BUILDUPS AS NECESSARY TO INCORPORATE A MAXIMUM PERMISSIBLE VARIATION IN POT BEARING DEPTH OF 13mm, SEE SPECIAL PROVISION FOR POT BEARINGS.

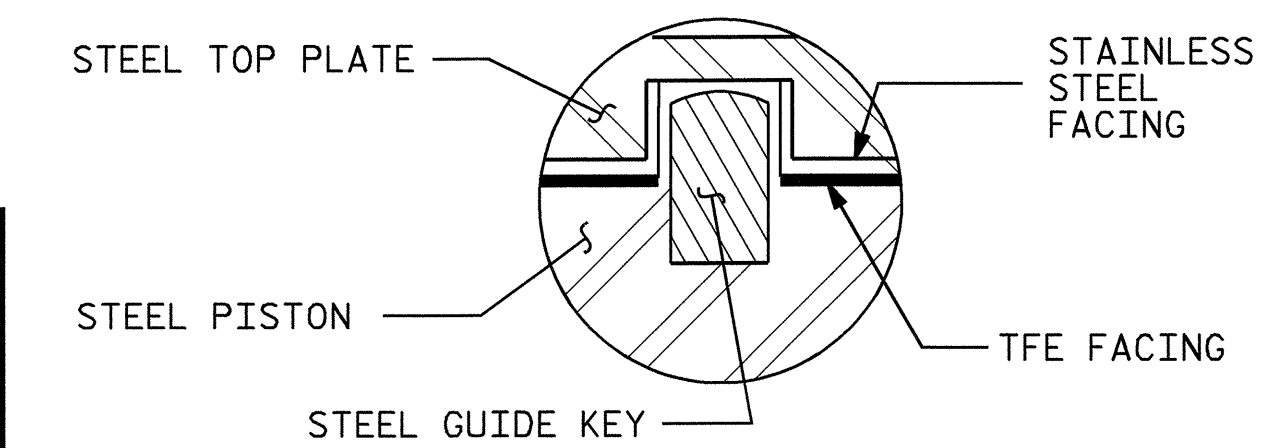


\*\* NOTE: DIMENSIONS "W" AND "T" ARE TO BE DETERMINED BY THE MANUFACTURER.

**SOLE PLATE DETAILS**



**DETAIL "A"**



**GUIDE KEY DETAIL**

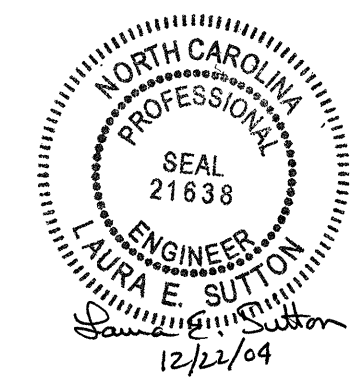
GIRDER	POT BEARING @ BENT 1 PB1	POT BEARING @ BENT 2 PB2
#1	56°-30'-49"	54°-59'-58"
#2	56°-26'-25"	54°-55'-19"
#3	56°-22'-01"	54°-50'-38"
#4	56°-17'-34"	54°-45'-57"

BEARING	LOCATION	VERTICAL LOAD ( kN )			LATERAL LOAD ( kN )	TOTAL MOVEMENT ( mm )
		DEAD	LIVE	TOTAL		
PB1 (FIXED)	BENT 1	1755	589	2344	351	0
PB2 (EXP.)	BENT 2	1761	589	2350	352	30

PROJECT NO. R-0977A  
CHEROKEE COUNTY  
 STATION: 41+19.524-LREV-

SHEET 1 OF 2

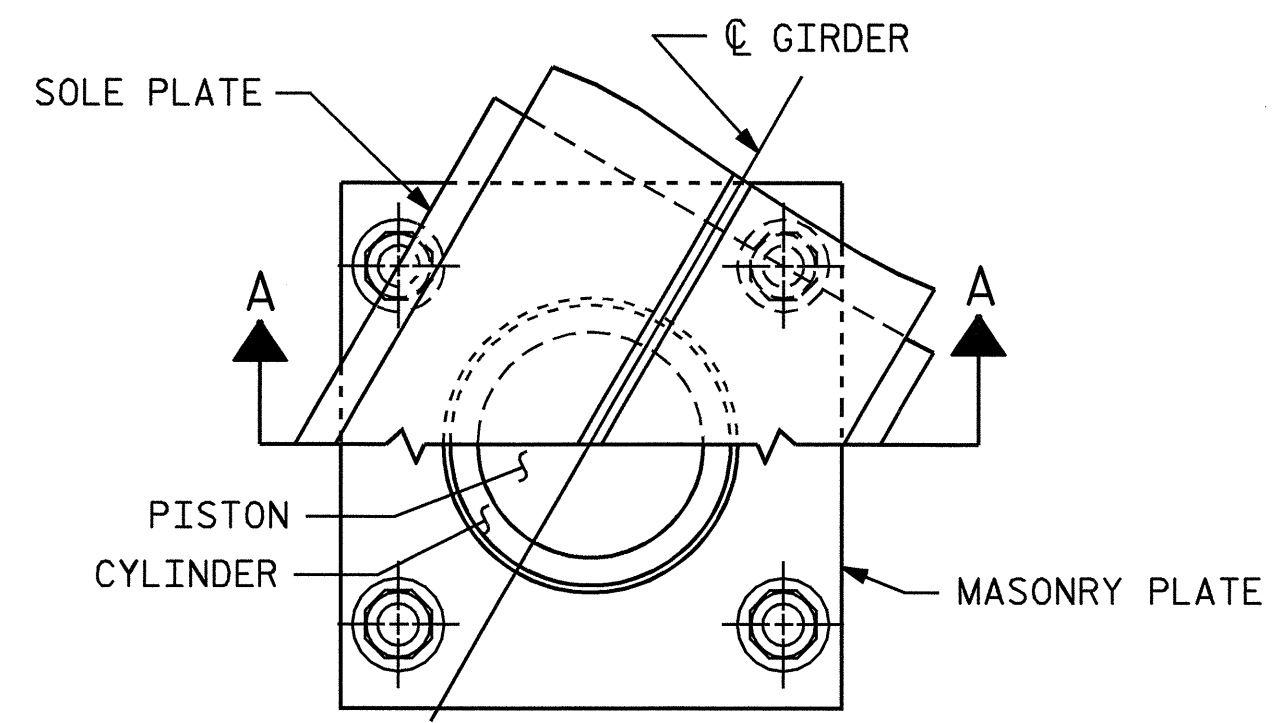
STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH  
 STANDARD  
 POT BEARING  
 DETAILS



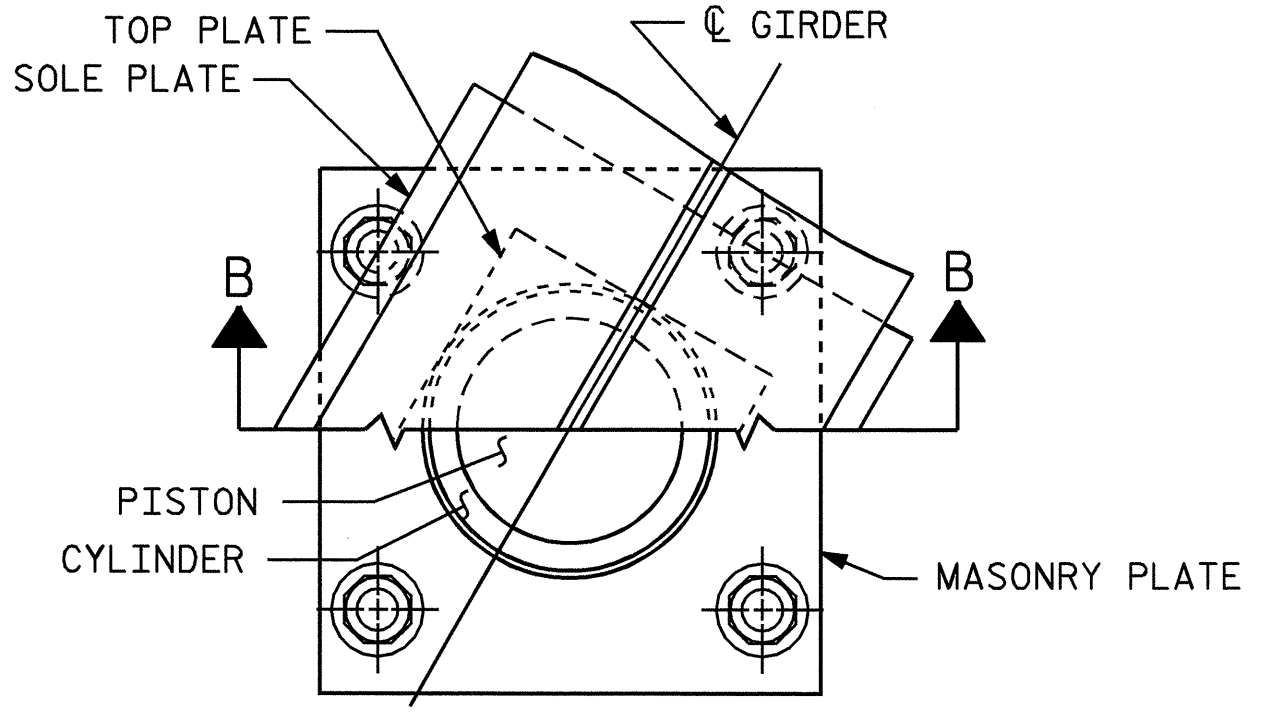
REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	S-140
1			3			TOTAL SHEETS 230
2			4			

STR. #4

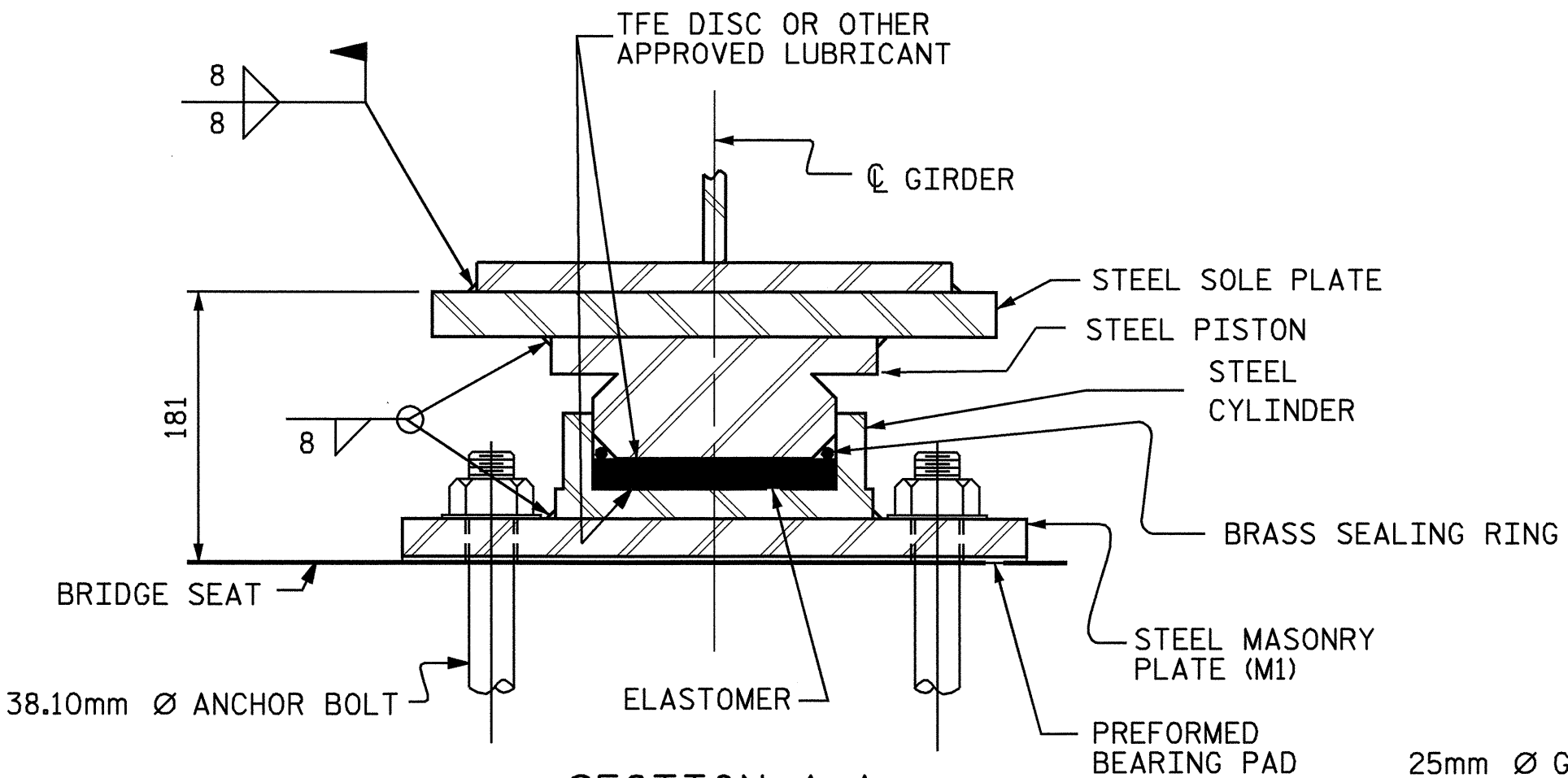
PB1SM.STD



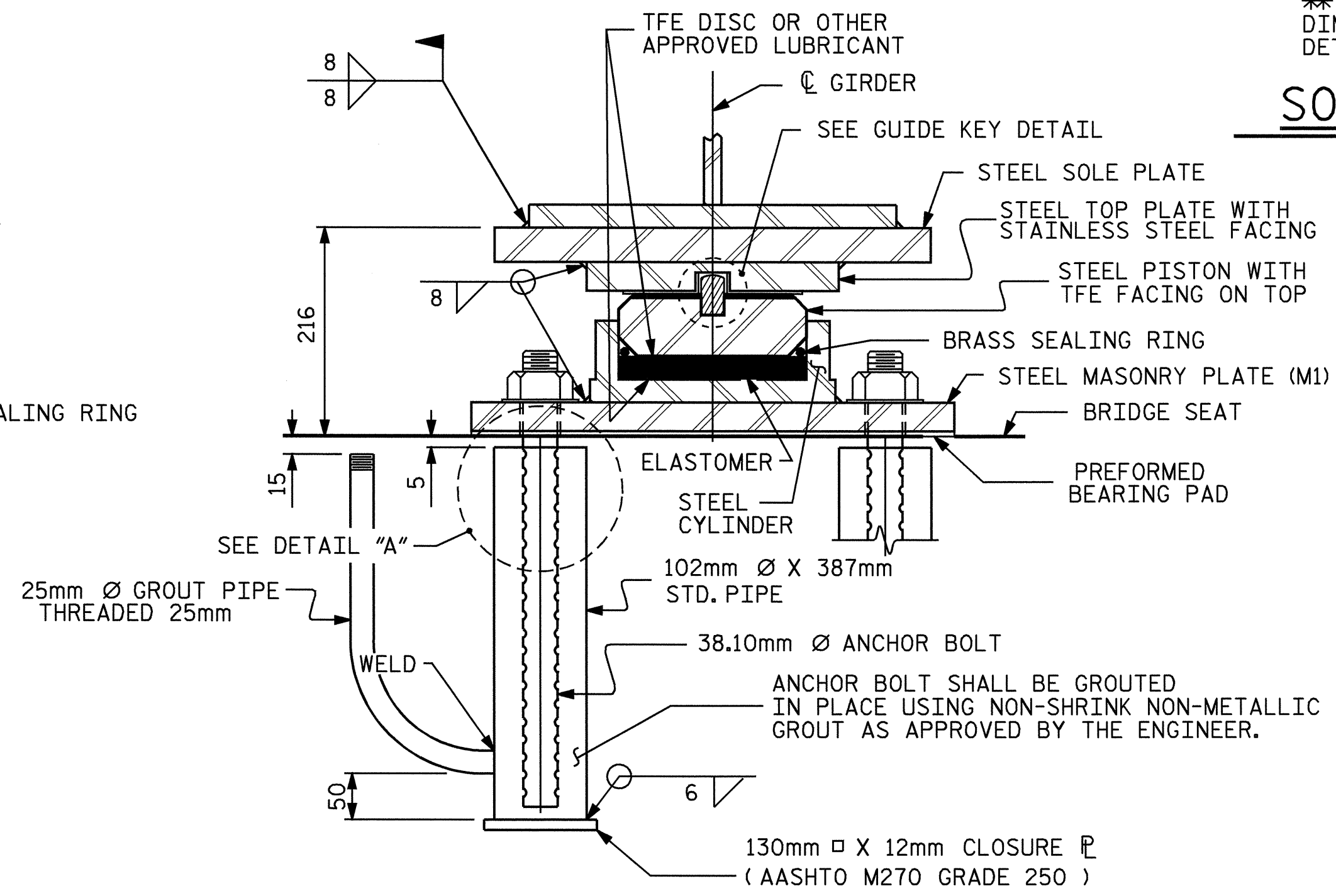
**CUT-AWAY PLAN**



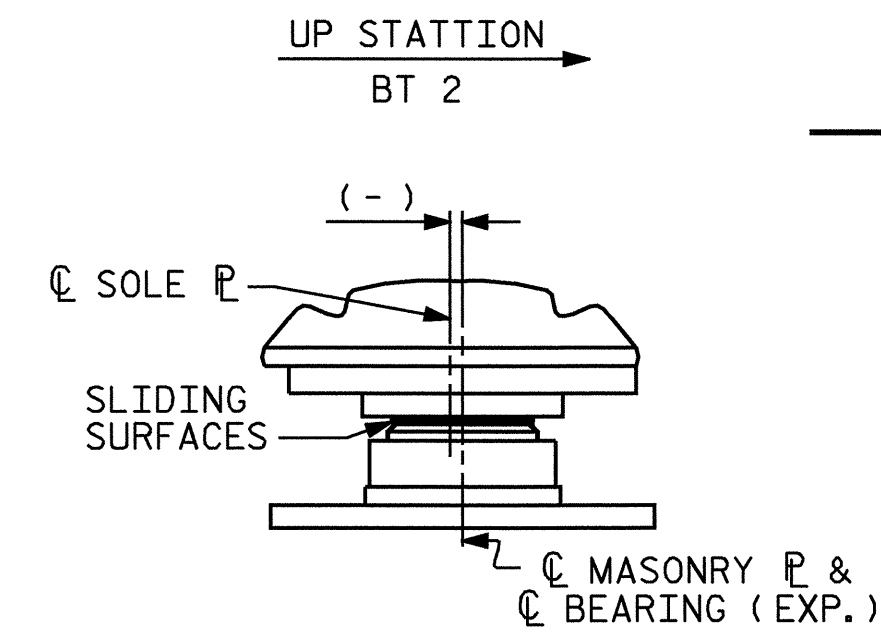
**CUT-AWAY PLAN**



**SECTION A-A**  
PB1, FIXED  
(4 REQ'D.)



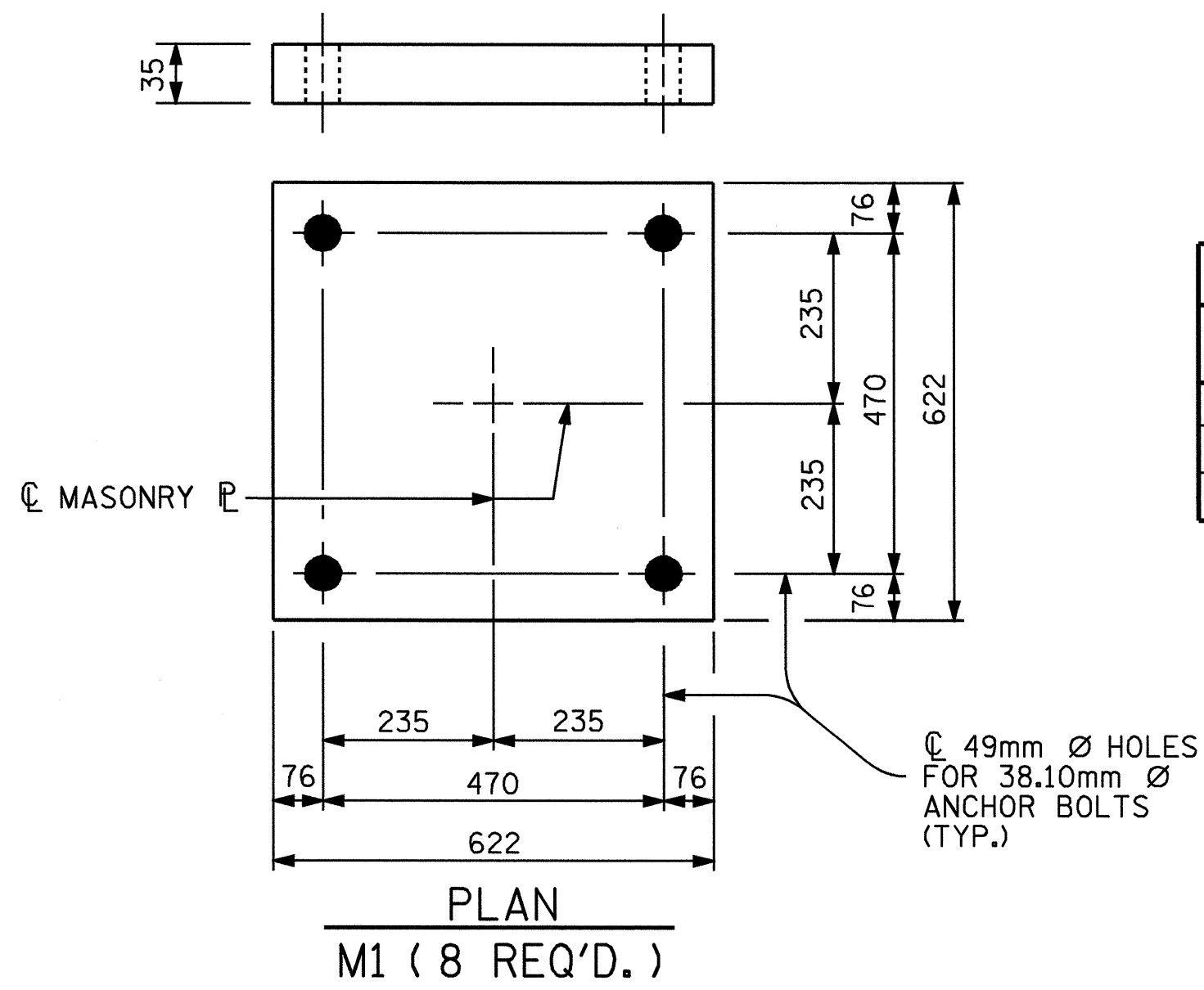
**SECTION B-B**  
PB2, EXP.  
(4 REQ'D.)



TEMPERATURE AT TIME OF SETTING	0° C	16° C	32° C	*
PB2	-9	0	9	-5

\*CORRECTION FOR END ROTATION DUE TO WEIGHT OF SLAB AND COMPOSITE DEAD LOAD.

**TEMPERATURE SETTING DETAIL**



**MASONRY PLATE DETAILS**

ASSEMBLED BY: B.N.BARODAWALA DATE: 11-8-04  
 CHECKED BY: MIKE ALLEN DATE: 11-04  
 DRAWN BY: RWW 8/99 REV. 10/17/00 RWW/LES  
 CHECKED BY: LES 8/99 REV. 7/10/01 LES/RWW  
 REV. 5/7/03 RWW/JTE