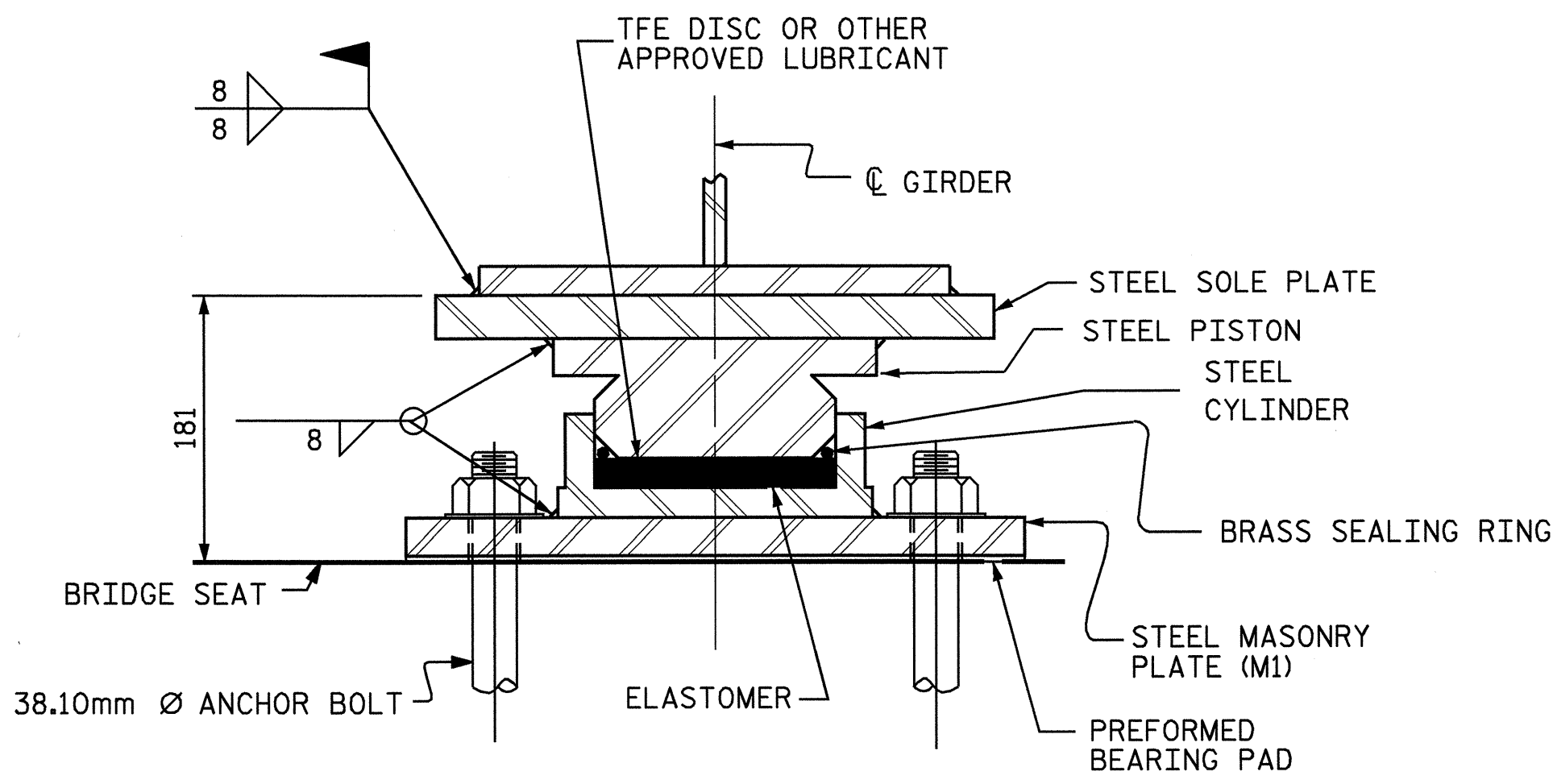
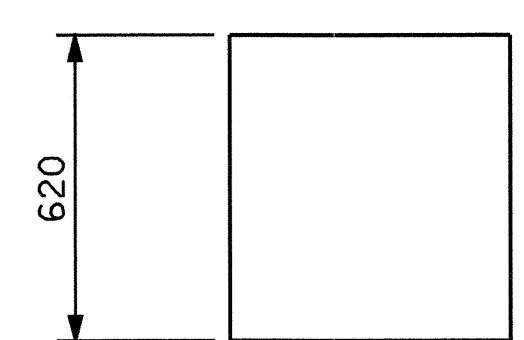
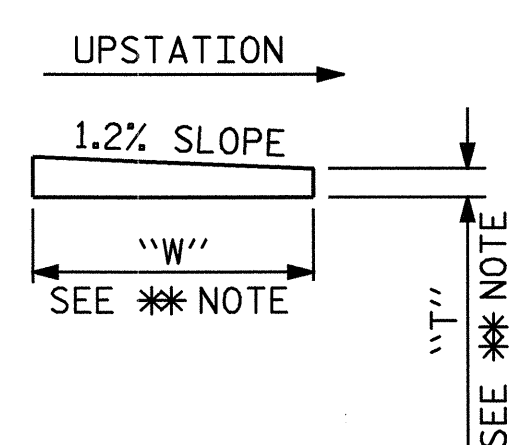


CUT-AWAY PLAN

**NOTES**  
 FOR POT BEARINGS, SEE SPECIAL PROVISIONS.  
 AT ALL POINTS OF SUPPORT AT BENT 1, 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.  
 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.



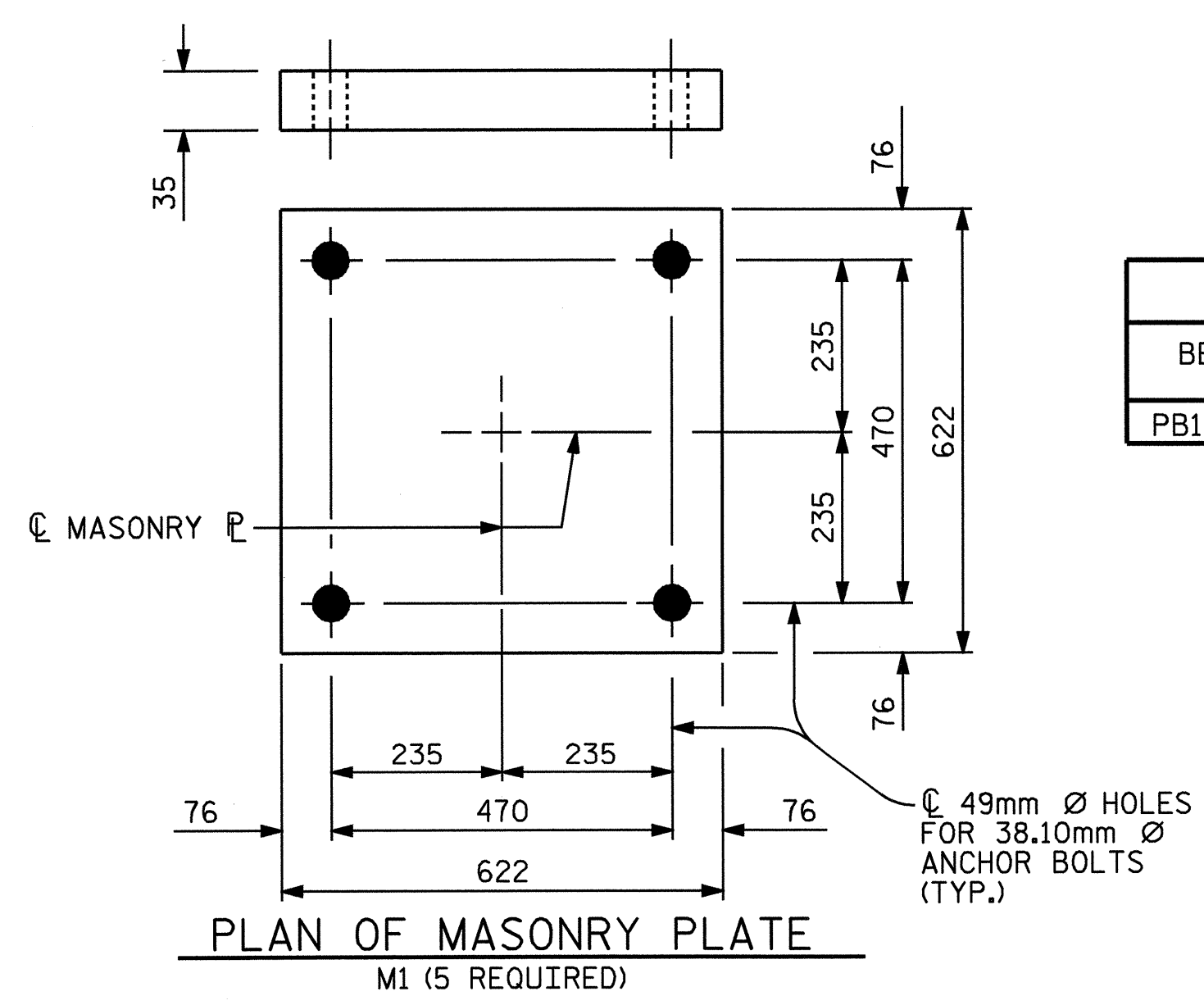
SECTION A-A  
 PB1, FIXED  
 PB1 (5 REQUIRED)



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

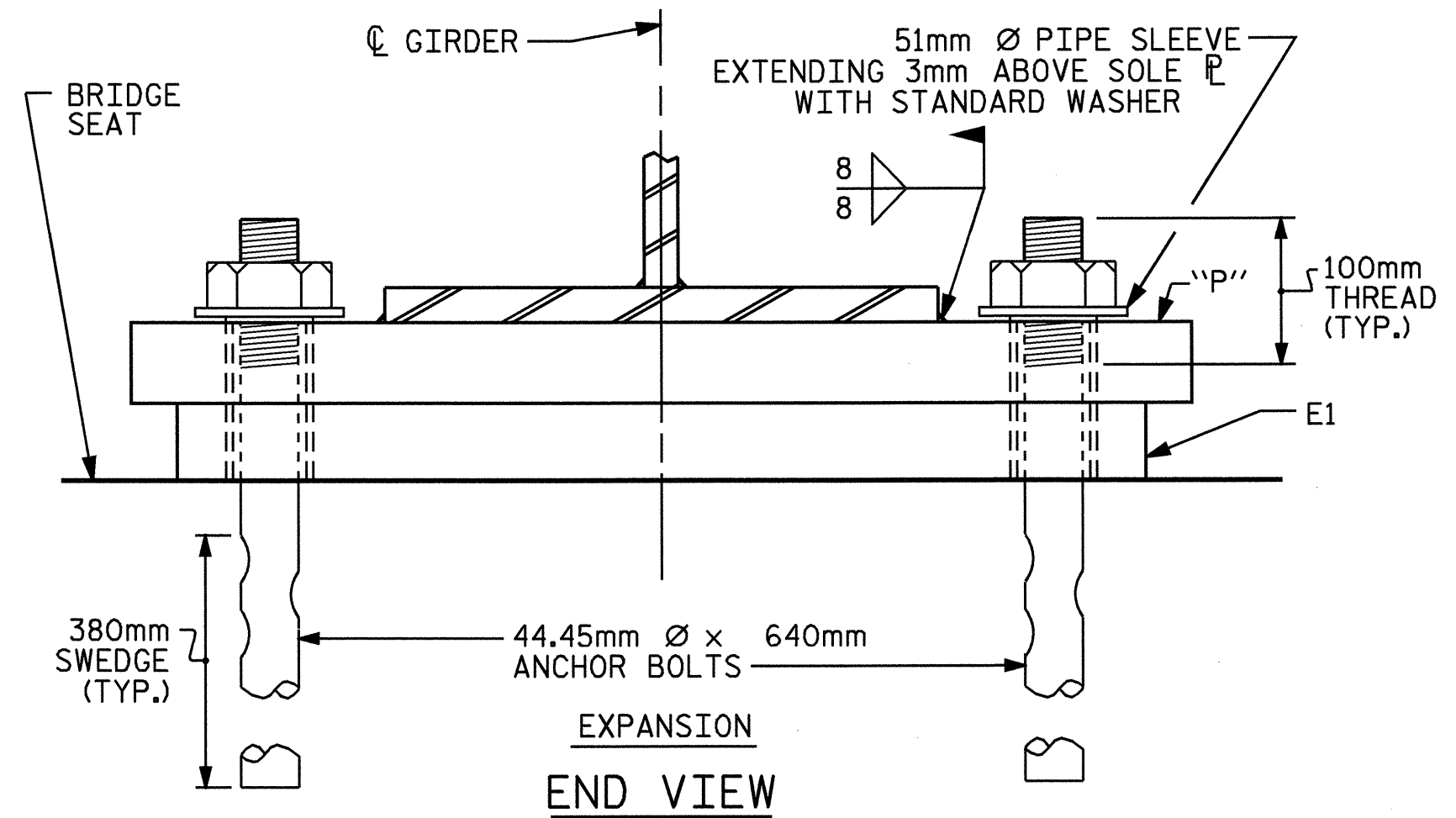
SOLE PLATE DETAILS

TABLE FOR LOADS					
BEARING	LOCATION	VERTICAL LOAD (KN)			LATERAL LOAD (KN)
		DEAD	LIVE	TOTAL	
PB1 (FIXED)	BENT 1	1690	604	2294	338



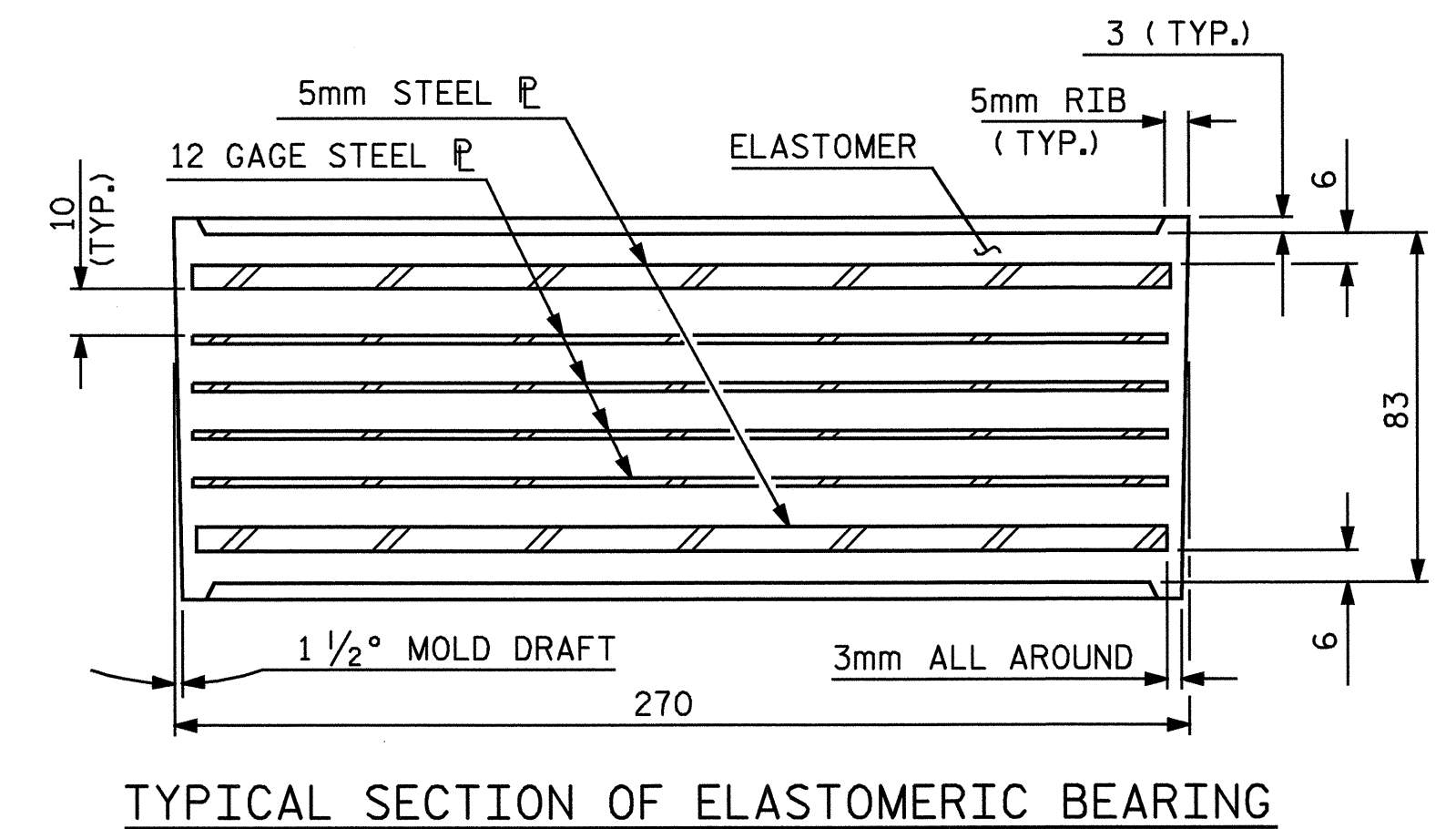
PLAN OF MASONRY PLATE  
 M1 (5 REQUIRED)

DRAWN BY: T.A. WALTER DATE: 11/27/02  
 CHECKED BY: N.Q. TRAN DATE: 7/03

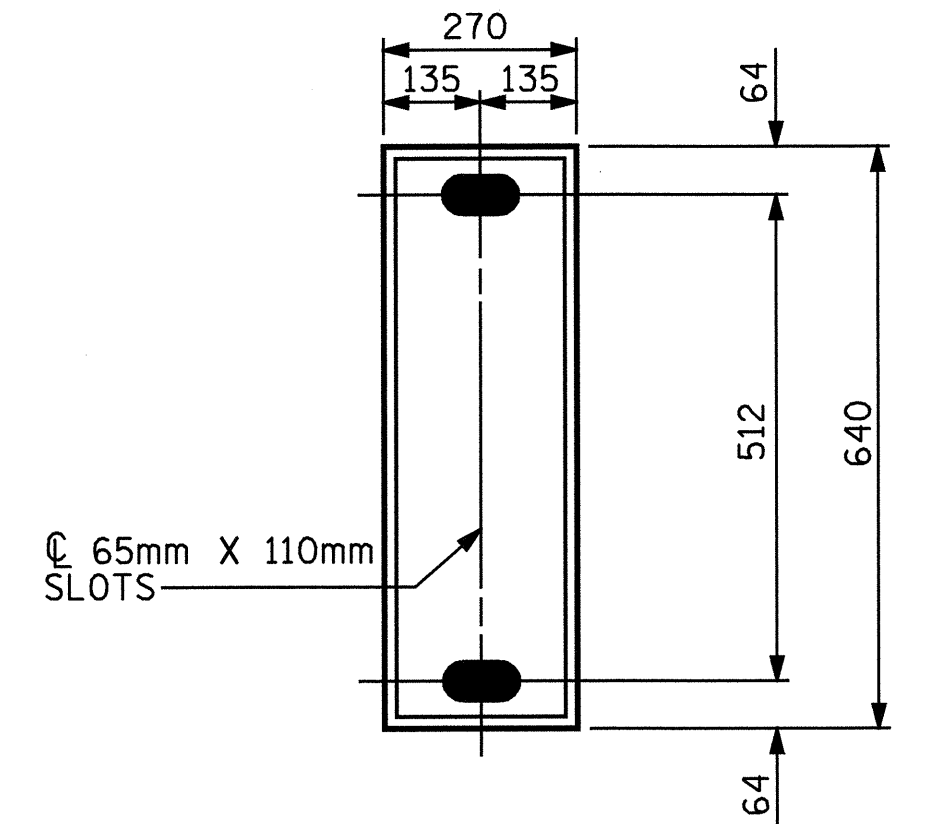


EXPANSION  
 END VIEW

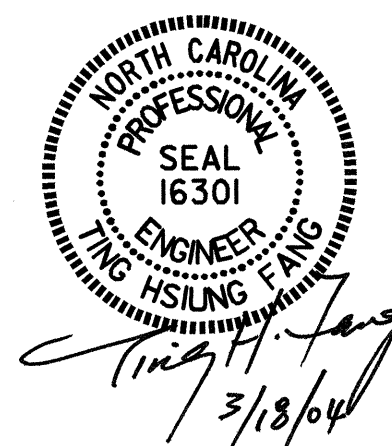
**NOTES**  
 FOR ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.  
 THE 51mm Ø PIPE SLEEVE SHALL BE CUT FROM SCHEDULE 40 PVC PLASTIC PIPE. THE PVC PLASTIC PIPE SHALL MEET THE REQUIREMENTS OF ASTM D1785.  
 THE PAYMENT FOR THE PIPE SLEEVES SHALL BE INCLUDED IN THE SEVERAL PAY ITEMS.  
 FOR AASHTO M270 GRADE 345W STRUCTURAL STEEL, SOLE PLATE SHALL BE AASHTO M270 GRADE 345W AND SHALL NOT BE GALVANIZED, ANCHOR BOLTS AND NUTS SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.  
 ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A449. NUTS SHALL MEET THE REQUIREMENTS OF AASHTO M291M-12 OR AASHTO M292M-2H. WASHERS SHALL MEET THE REQUIREMENTS OF AASHTO M293M. SHOP DRAWINGS ARE NOT REQUIRED FOR ANCHOR BOLTS, NUTS AND WASHERS. SHOP INSPECTION IS REQUIRED.  
 WHEN FIELD WELDING THE SOLE PLATE TO THE GIRDER FLANGE, USE TEMPERATURE INDICATING WAX PENS, OR OTHER SUITABLE MEANS, TO ENSURE THAT THE TEMPERATURE OF THE SOLE PLATE DOES NOT EXCEED 149°C. TEMPERATURES ABOVE THIS MAY DAMAGE THE ELASTOMER.  
 ALL SURFACES OF BEARING PLATES SHALL BE SMOOTH AND STRAIGHT.



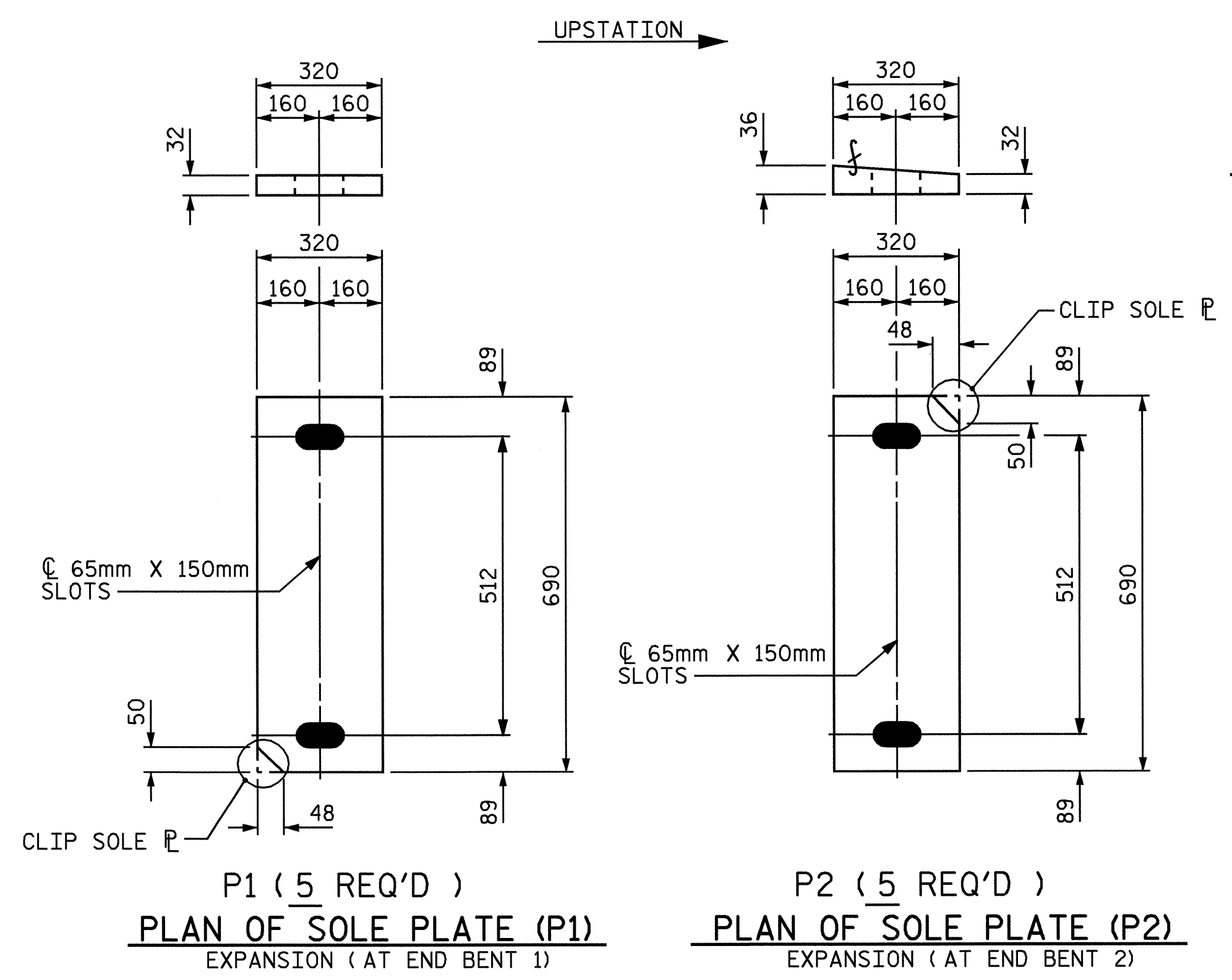
TYPICAL SECTION OF ELASTOMERIC BEARING



E1 (10 REQ'D)  
 PLAN OF ELASTOMERIC BEARING  
 (TYPE IV)



PROJECT NO. R-513BB  
 ROBESON COUNTY  
 STATION: 179+16.663 -L-



P1 (5 REQ'D)  
 PLAN OF SOLE PLATE (P1)  
 EXPANSION (AT END BENT 1)

P2 (5 REQ'D)  
 PLAN OF SOLE PLATE (P2)  
 EXPANSION (AT END BENT 2)

-LOAD RATINGS-	
TYPE IV	MAX. D.L.+ L.L.
	809 KN

STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**SUPERSTRUCTURE  
 BEARING DETAILS**

REVISIONS						SHEET NO. S-12
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			TOTAL SHEETS 312
2			4			