

**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.

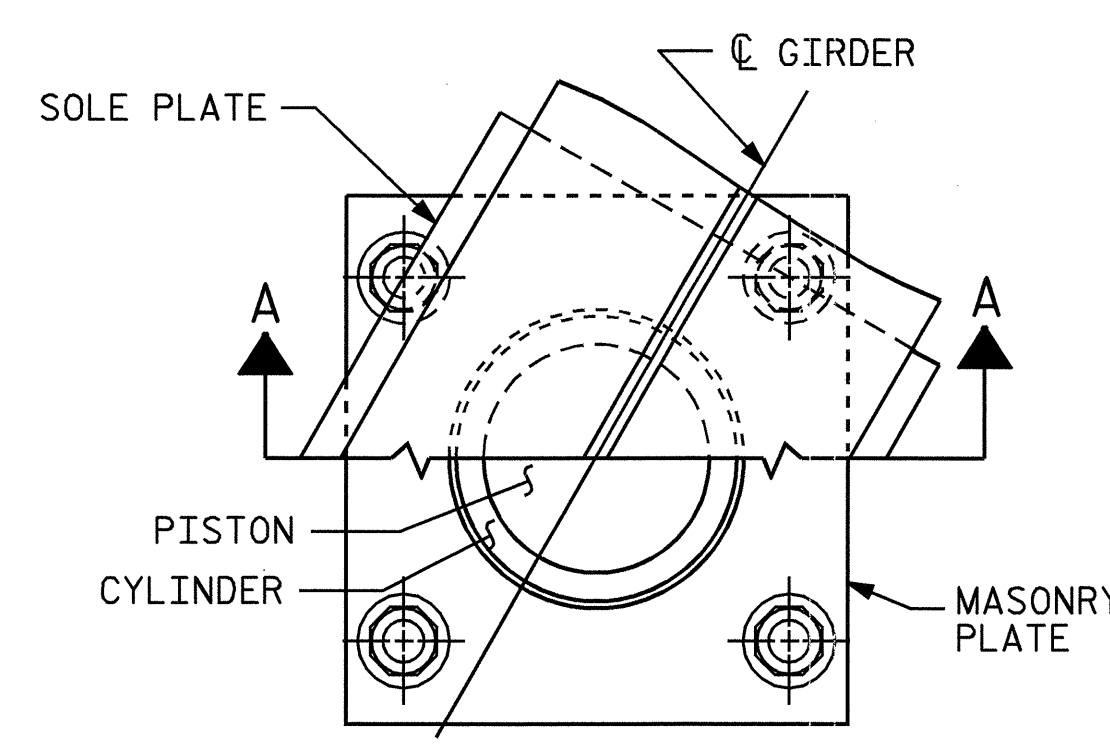
ANCHOR BOLTS SHALL MEET THE REQUIREMENTS OF ASTM A449. NUTS SHALL MEET THE REQUIREMENTS OF AASHTO M291M-12 OR AASHTO M292M-2H. WASHERS SHALL MEET THE REQUIREMENTS OF AASHTO M293M. SHOP DRAWINGS ARE NOT REQUIRED FOR ANCHOR BOLTS, NUTS AND WASHERS. SHOP INSPECTION IS REQUIRED.

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.

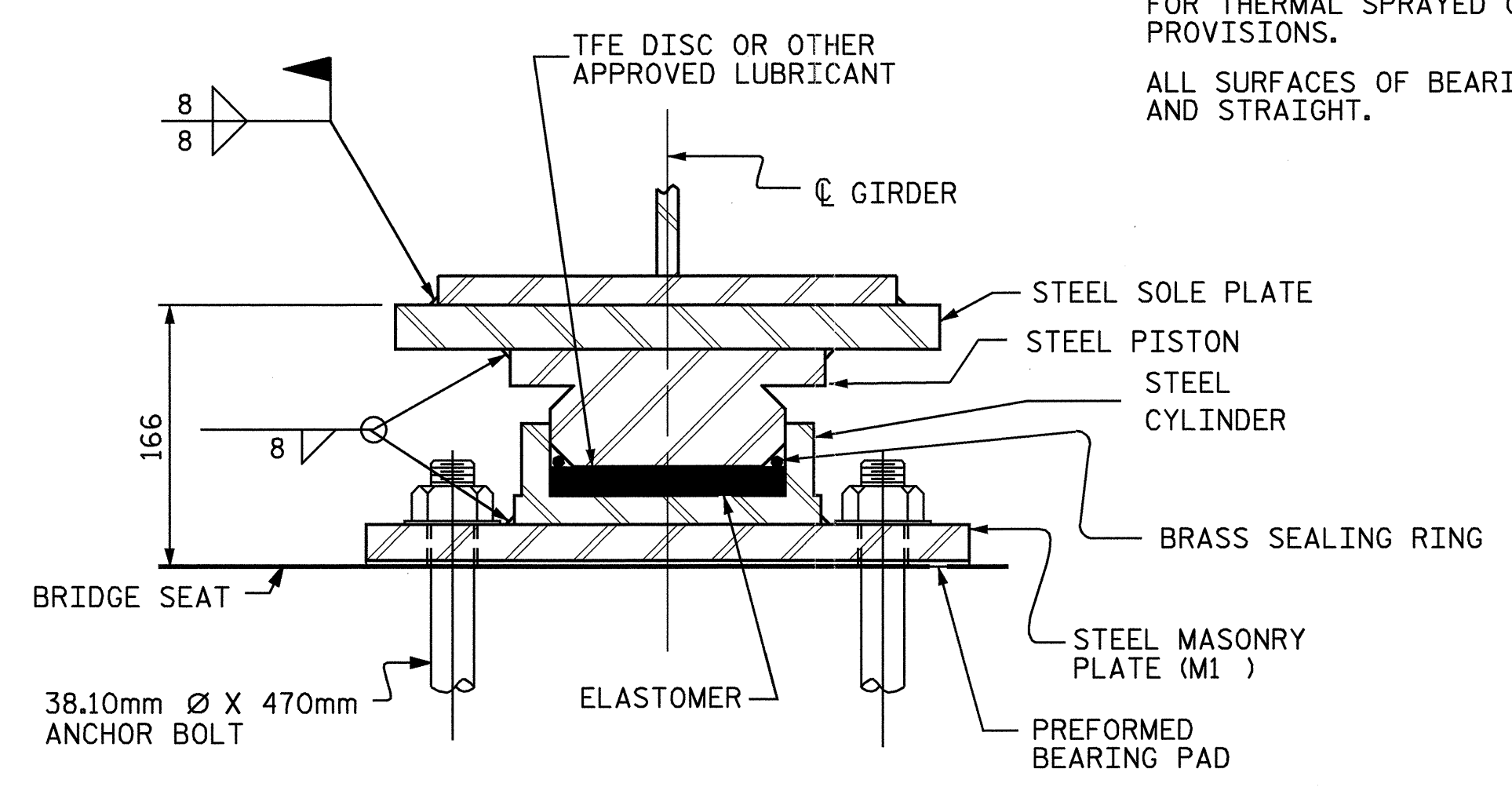
ALL SURFACES OF BEARING PLATES SHALL BE SMOOTH AND STRAIGHT.

**NOTES**

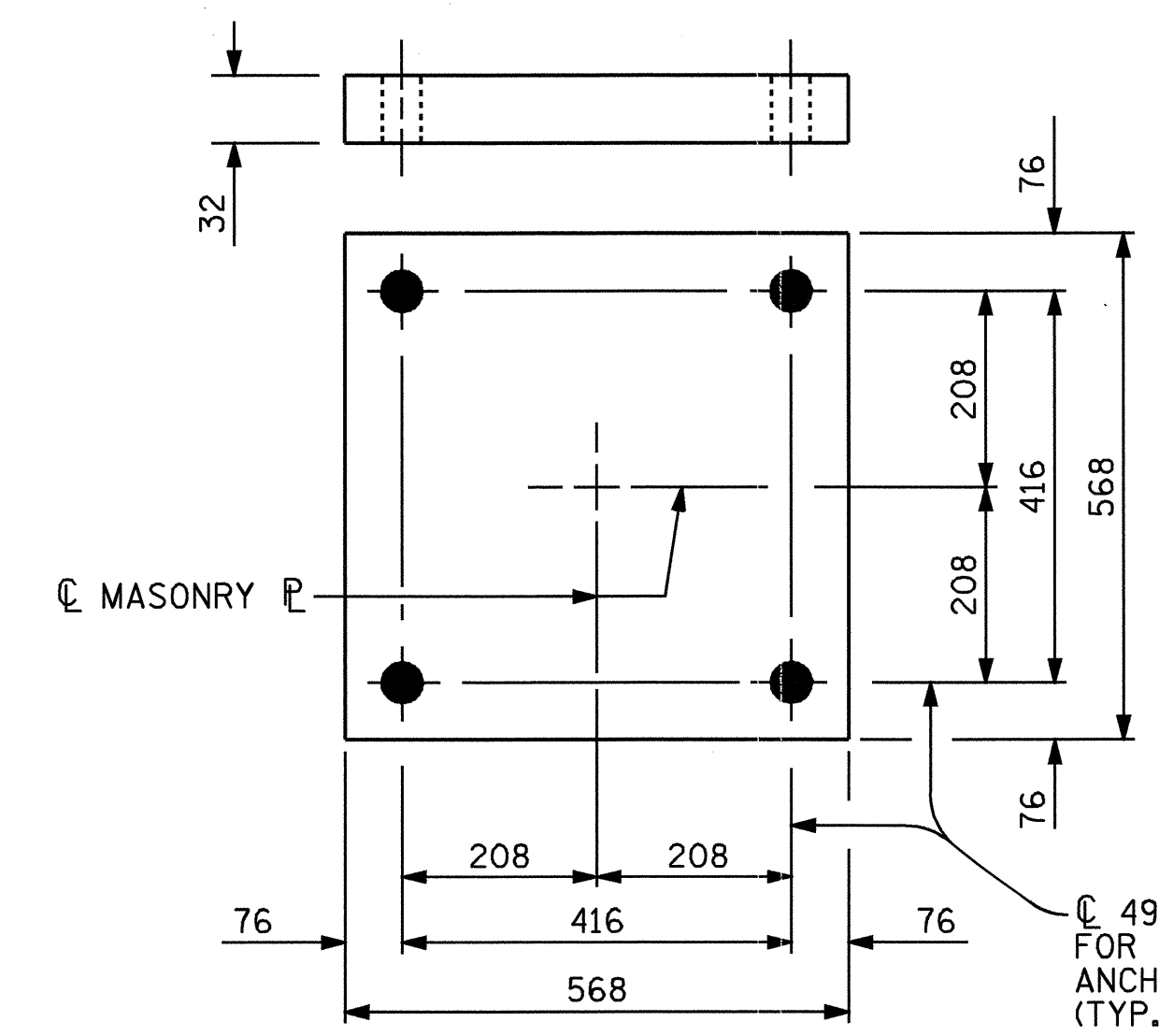
FOR POT BEARINGS, SEE SPECIAL PROVISIONS.  
 AT ALL POINTS OF SUPPORT AT BENT 1, NUTS FOR ANCHOR BOLTS SHALL BE TIGHTENED FINGER TIGHT AND GIVEN AN ADDITIONAL 1/4 TURN. THE THREAD OF THE NUT AND BOLT SHALL THEN BE BURRED WITH A SHARP POINTED TOOL.  
 WHEN WELDING THE SOLE PLATE TO THE GIRDER, USE TEMPERATURE 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.  
 THE CONTRACTOR MAY BE SUBSTITUTE DISC BEARINGS FOR THE POT BEARINGS SHOWN. FOR OPTIONAL DISC BEARINGS, SEE SPECIAL PROVISIONS.  
 SOLE PLATES SHALL BE WELDED TO BEAM FLANGES BEFORE FALSEWORK IS PLACED.  
 THE CONTRACTOR SHALL ADJUST THE GIRDER BUILDDUPS AS NECESSARY TO INCORPORATE A MAXIMUM PERMISSIBLE VARIATIONS IN POT BEARING DEPTH OF 13mm, SEE SPECIAL PROVISIONS FOR POT BEARINGS.  
 FOR THERMAL SPRAYED COATINGS (METALLIZATION) SEE SPECIAL PROVISIONS.  
 ALL SURFACES OF BEARING PLATES SHALL BE SMOOTH AND STRAIGHT.



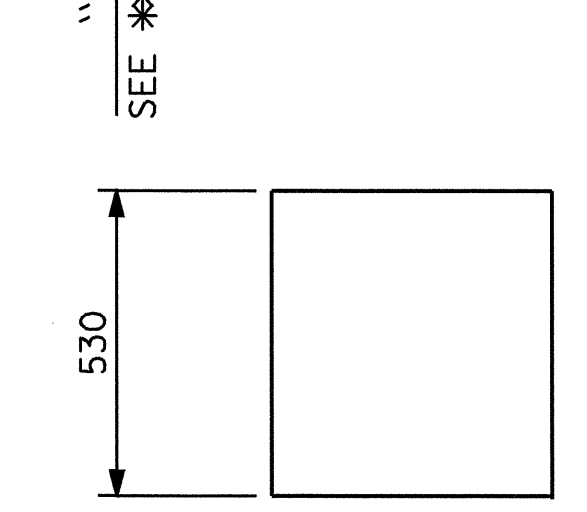
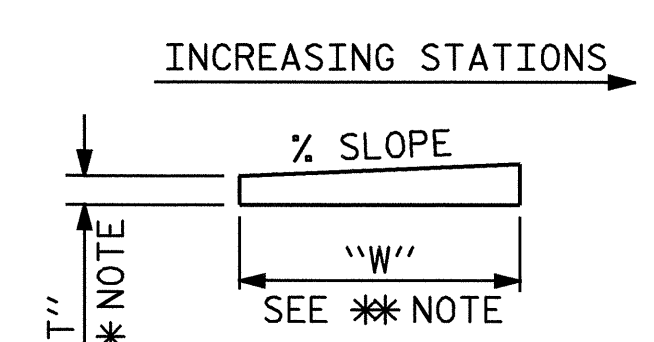
**CUT-AWAY PLAN**



**SECTION A-A**  
**PB1, FIXED**  
 PB1 (4 REQUIRED)



**PLAN OF MASONRY PLATE**  
 M1 (4 REQUIRED)

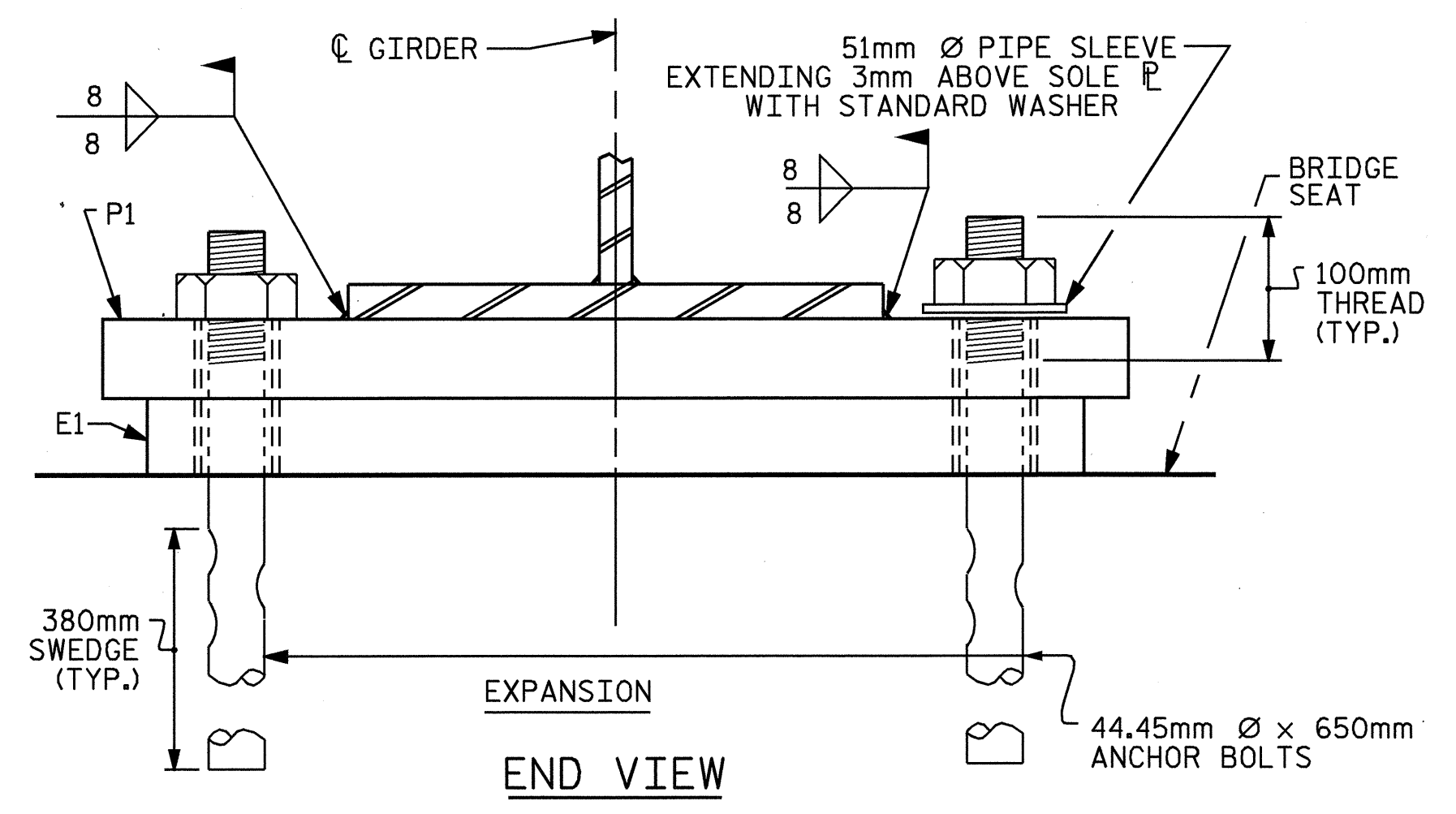


\*\* NOTE: DIMENSIONS "W" AND "T" ARE TO BE DETERMINED BY THE MANUFACTURER.

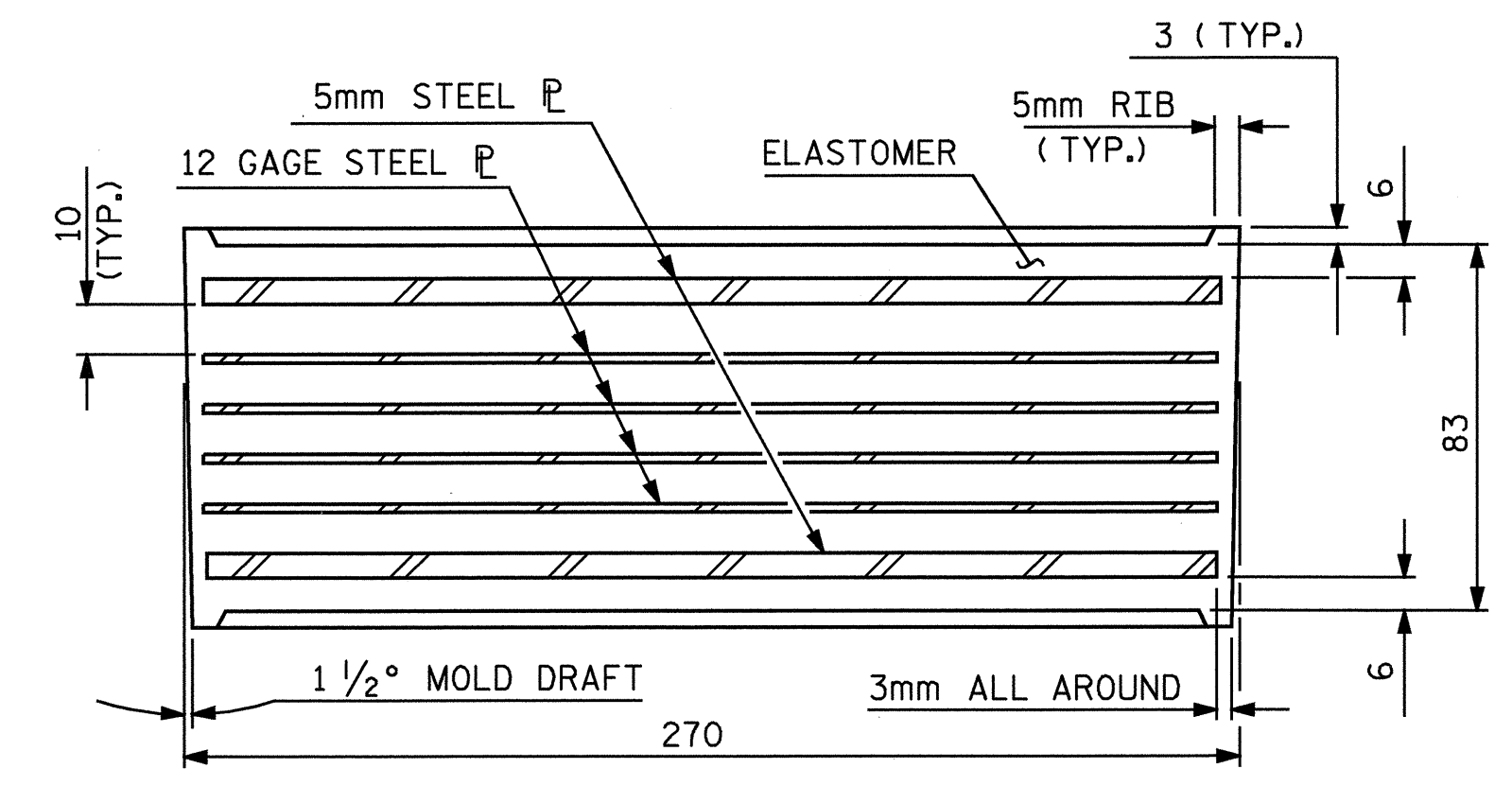
**SOLE PLATE DETAILS**

M1 (4 REQUIRED)

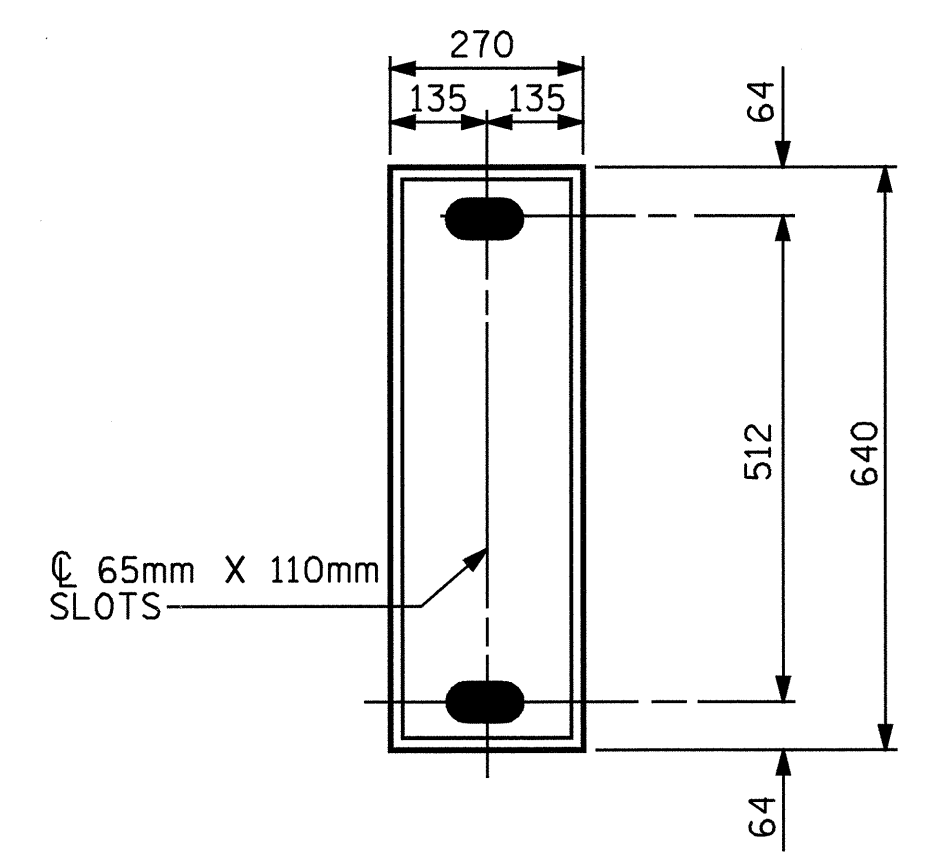
TABLE FOR LOADS					
BEARING	LOCATION	VERTICAL LOAD (KN)			LATERAL LOAD (KN)
		DEAD	LIVE	TOTAL	
PB1 (FIXED)	BENT 1	1700	560	2260	226



**END VIEW**

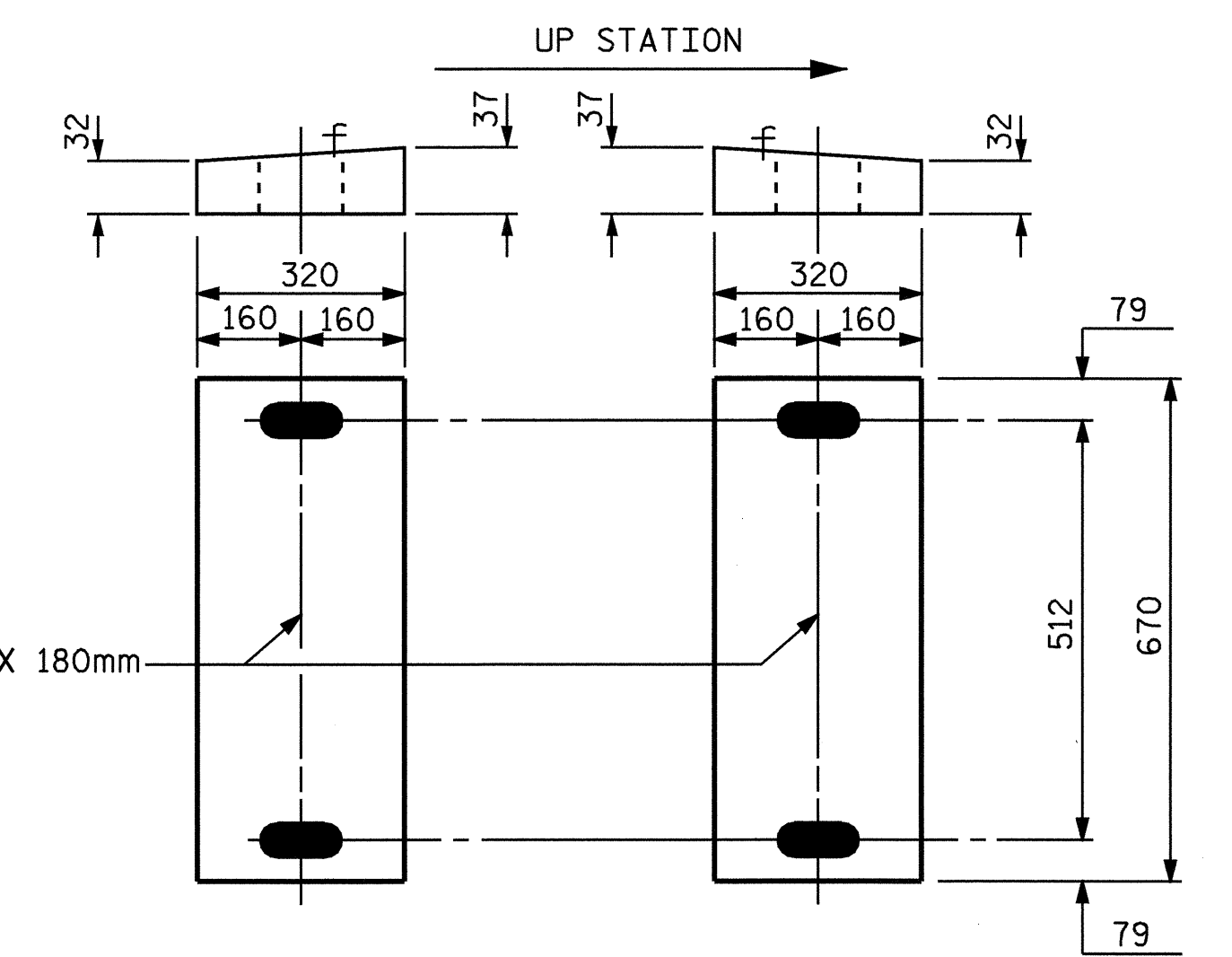


**TYPICAL SECTION OF ELASTOMERIC BEARING**



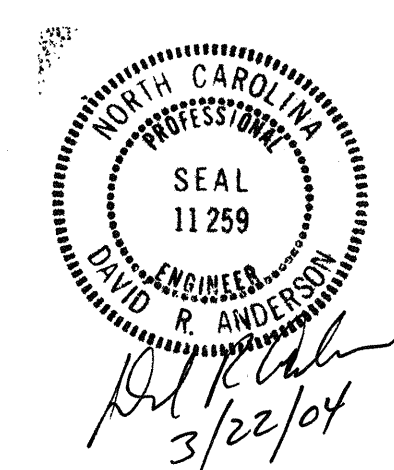
**PLAN OF ELASTOMERIC BEARING**  
 (TYPE IV)  
 E1 (8 REQ'D)

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



**PLAN OF SOLE PLATE**  
 P1 (4 REQ'D) (AT END BENT #1)  
 P2 (4 REQ'D) (AT END BENT #2)

PROJECT NO. R-513C  
ROBESON COUNTY  
 STATION: 271+08.001 -L-



STATE OF NORTH CAROLINA  
 DEPARTMENT OF TRANSPORTATION  
 RALEIGH

**SUPERSTRUCTURE BEARING DETAILS**

REVISIONS					
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. 5-111  
 TOTAL SHEETS 312

DRAWN BY: N.Q. TRAN DATE: MAY-01  
 CHECKED BY: T.A. WALTER DATE: 9-02