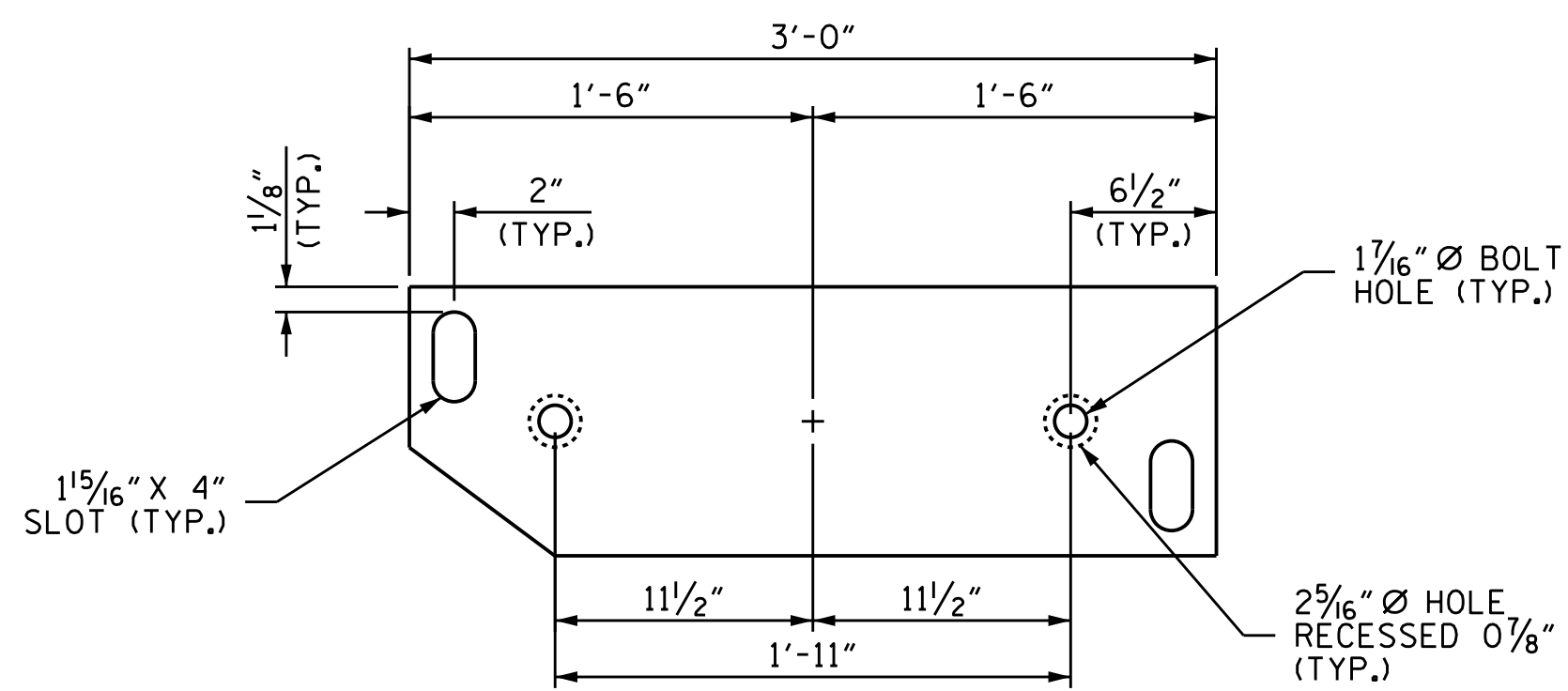
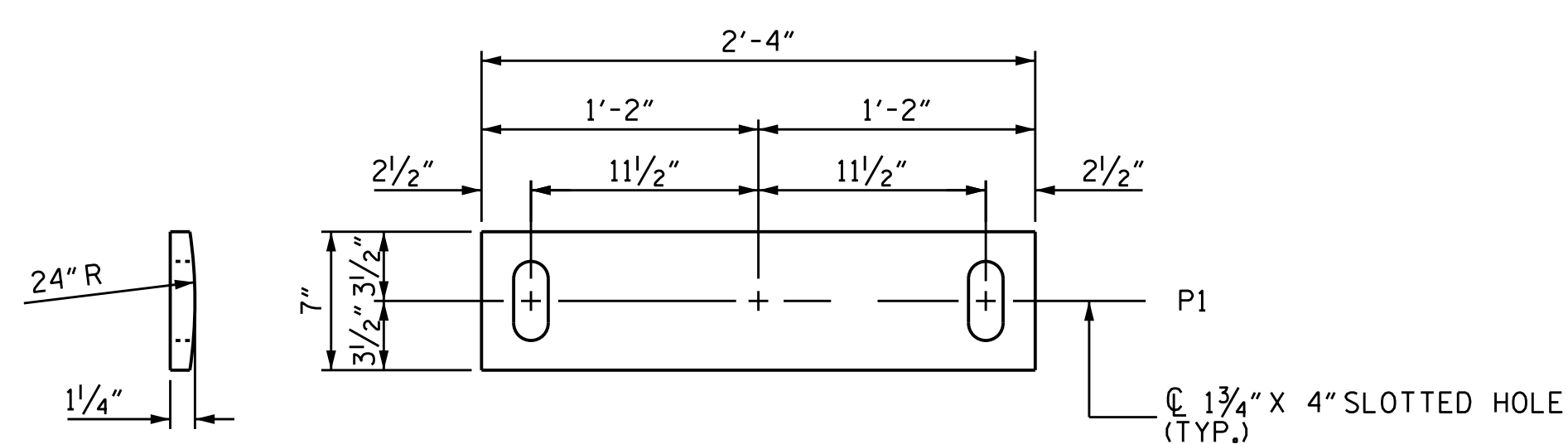


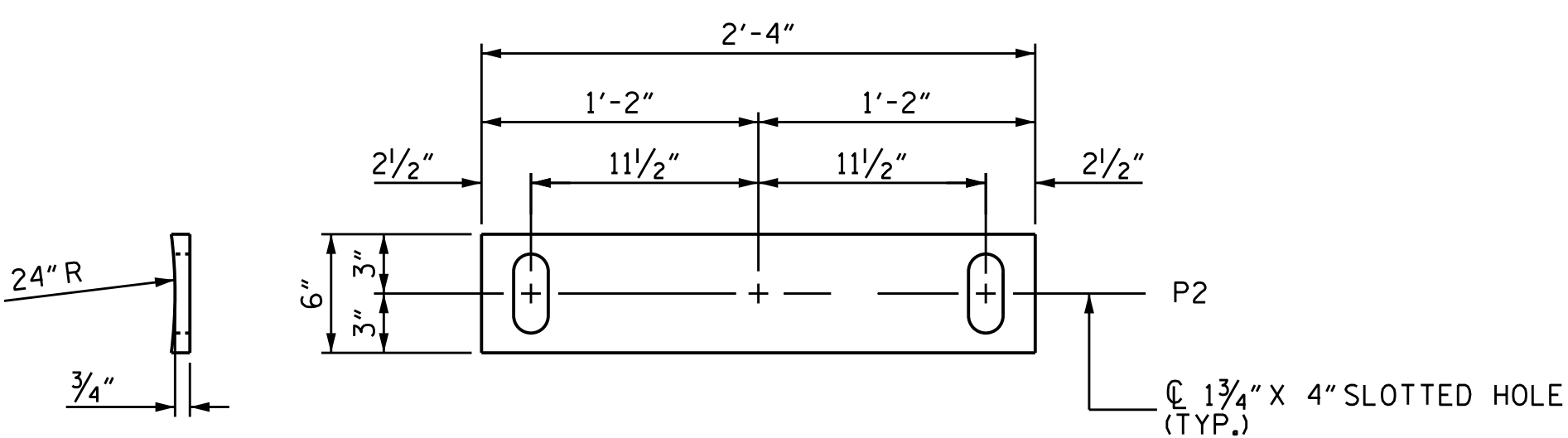
MASONRY PLATE



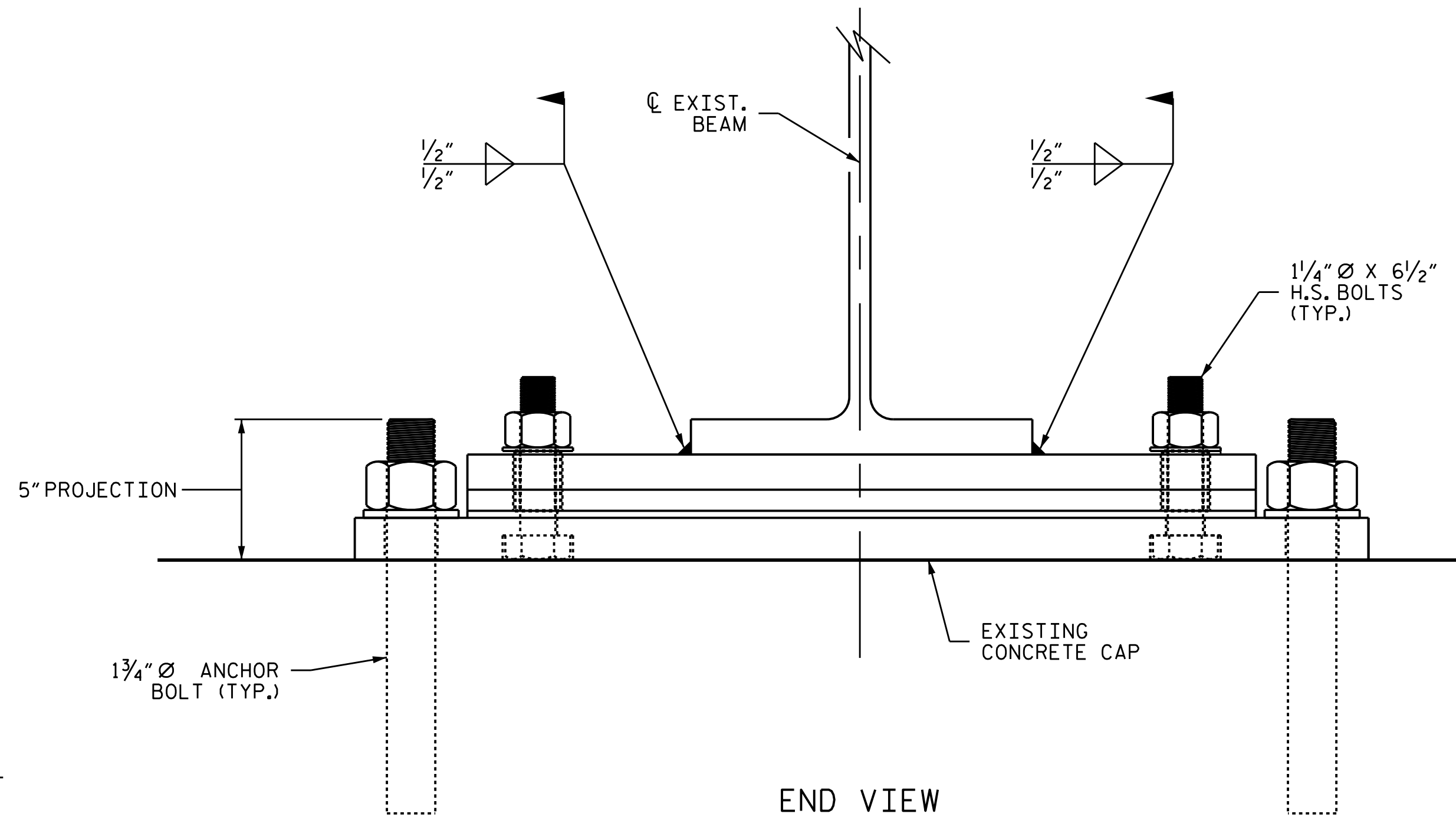
MASONRY PLATE PLAN



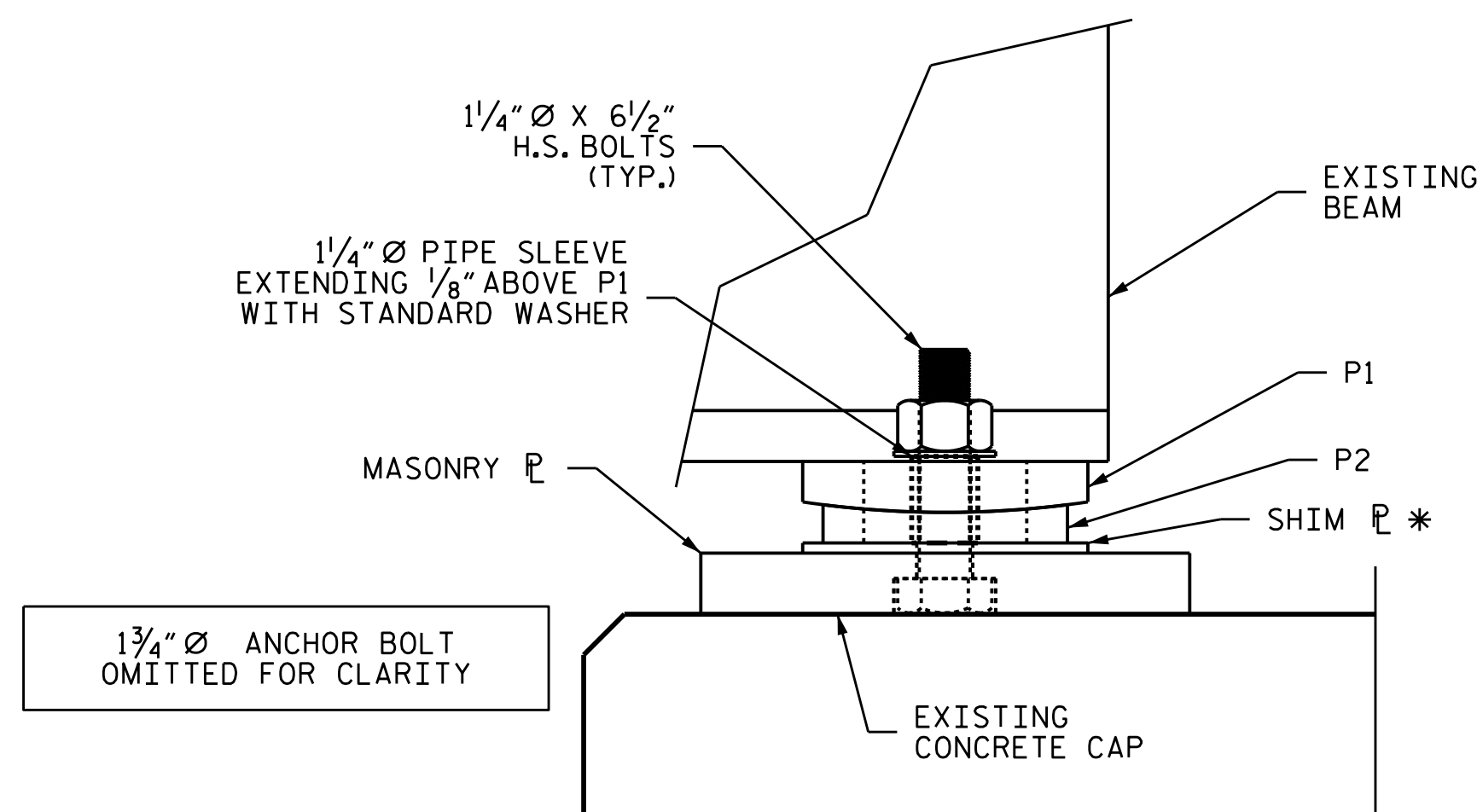
EXPANSION BEARING PLATE P1



EXPANSION BEARING PLATE P2



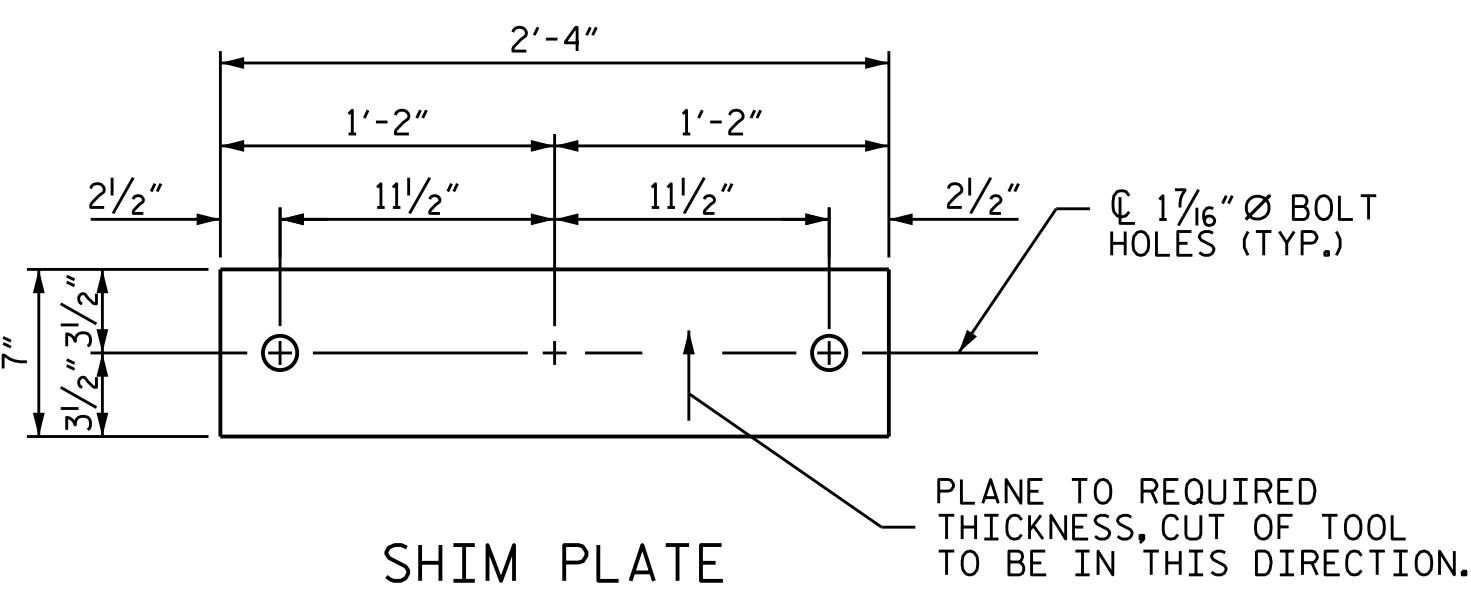
END VIEW



SECTION A-A

* CONTRACTOR TO FIELD VERIFY DIMENSIONS BETWEEN TOP OF BENT CAP AND BOTTOM FLANGE OF EXISTING BEAM PRIOR TO FABRICATION OF SHIM PLATE.

* THICKNESS DETERMINED BY FIELD VERIFICATION



SHIM PLATE

PLANE TO REQUIRED THICKNESS, CUT OF TOOL TO BE IN THIS DIRECTION.

NOTES:

THE EXISTING BEARINGS DETERMINED FOR REPLACEMENT SHALL BE REMOVED AND REPLACED WITH BEARINGS AS SHOWN.

FOR BEARING REPLACEMENT, SEE SPECIAL PROVISIONS.

THE CONTRACTOR SHALL CORE INTO THE EXISTING BENT CAP TO INSTALL 1 3/4" Ø ANCHOR BOLTS. BOLTS SHALL BE ADHESIVELY ANCHORED; SEE STANDARD SPECIFICATIONS. ADHESIVE FOR NEW ANCHOR BOLTS SHALL BE AN NCDOT-APPROVED PRODUCT. FIELD TESTING WILL NOT BE REQUIRED FOR INSTALLATION OF ADHESIVELY ANCHORED BOLTS.

NUTS FOR ANCHOR BOLTS ARE TO BE TIGHTENED FINGER TIGHT AND THEN BACKED OFF 1/2 TURN. THE THREAD OF THE NUT AND BOLT SHALL BE BURRED WITH A SHARP TOOL.

MASONRY PLATES, BEARING PLATES, SHIM PLATES, ANCHOR BOLTS, NUTS, AND WASHERS 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 M291-DH OR AASHTO M292-2H. WASHERS SHALL MEET THE REQUIREMENTS OF AASHTO M293. SHOP DRAWINGS ARE NOT REQUIRED FOR ANCHOR BOLTS, NUTS, AND WASHERS. SHOP INSPECTION IS REQUIRED.

THE 1/4" 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 SLEEVE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR BEARING REPLACEMENT.

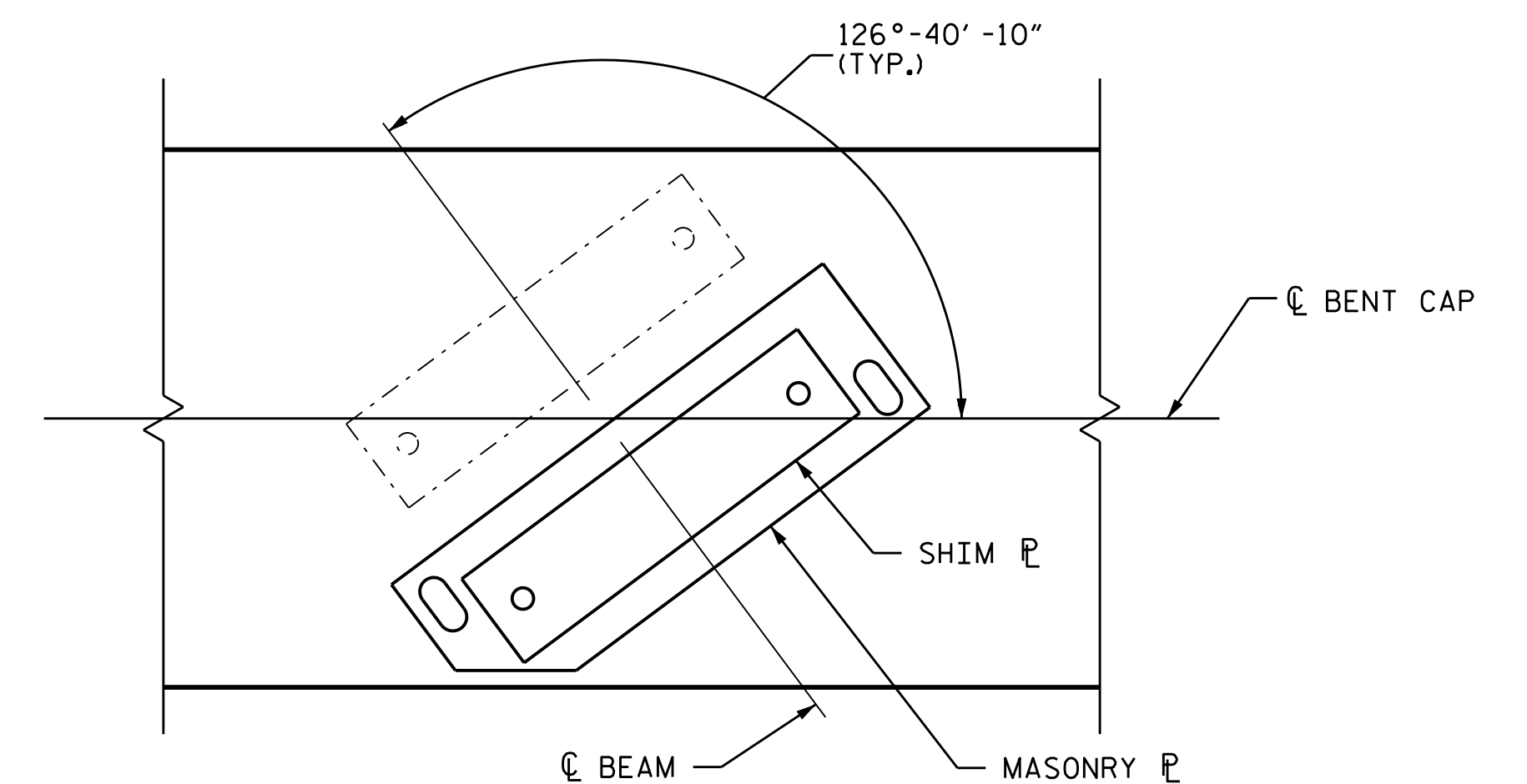
REMOVE GALVANIZING OR ANY OTHER COATING AT THE LOCATION OF FIELD WELDS AND PREPARE THE WELD AREAS AS PER ARTICLE 440-7 OF THE STANDARD SPECIFICATIONS.

AFTER COMPLETION OF FIELD WELDING, THE WELDS AND AREAS WHERE GALVANIZING HAS BEEN REMOVED OR DAMAGED, SHALL BE REPAIRED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

ALL WELDING SHALL BE IN ACCORDANCE WITH CURRENT APPLICABLE AWS AND NCDOT STANDARD SPECIFICATIONS.

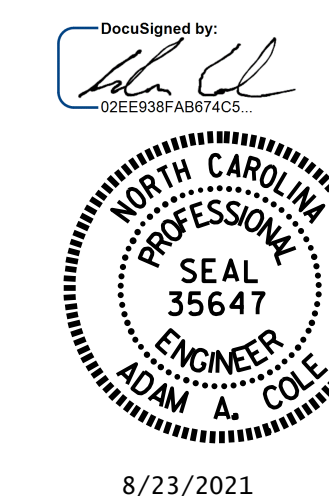
ALL WELDS WILL BE INSPECTED AND TESTED BY THE NCDOT MATERIALS AND TEST UNIT IN ACCORDANCE WITH THE CURRENT AWS BRIDGE WELDING CODE AND STANDARD SPECIFICATIONS.

ALL SURFACES OF BEARING PLATES SHALL BE SMOOTH AND STRAIGHT.



MASONRY PLATE ORIENTATION

PROJECT NO. I-5746C
MECKLENBURG COUNTY
 BRIDGE NO. 590332



STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
**BEARING REPLACEMENT
 DETAILS**

DRAWN BY : R.L. PUTEK DATE : 07/2021
 CHECKED BY : H. A. LOCKLEAR DATE : 07/2021

DOCUMENT NOT CONSIDERED
 FINAL UNLESS ALL
 SIGNATURES COMPLETED

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	
1			3			S10-28
2			4			TOTAL SHEETS 274