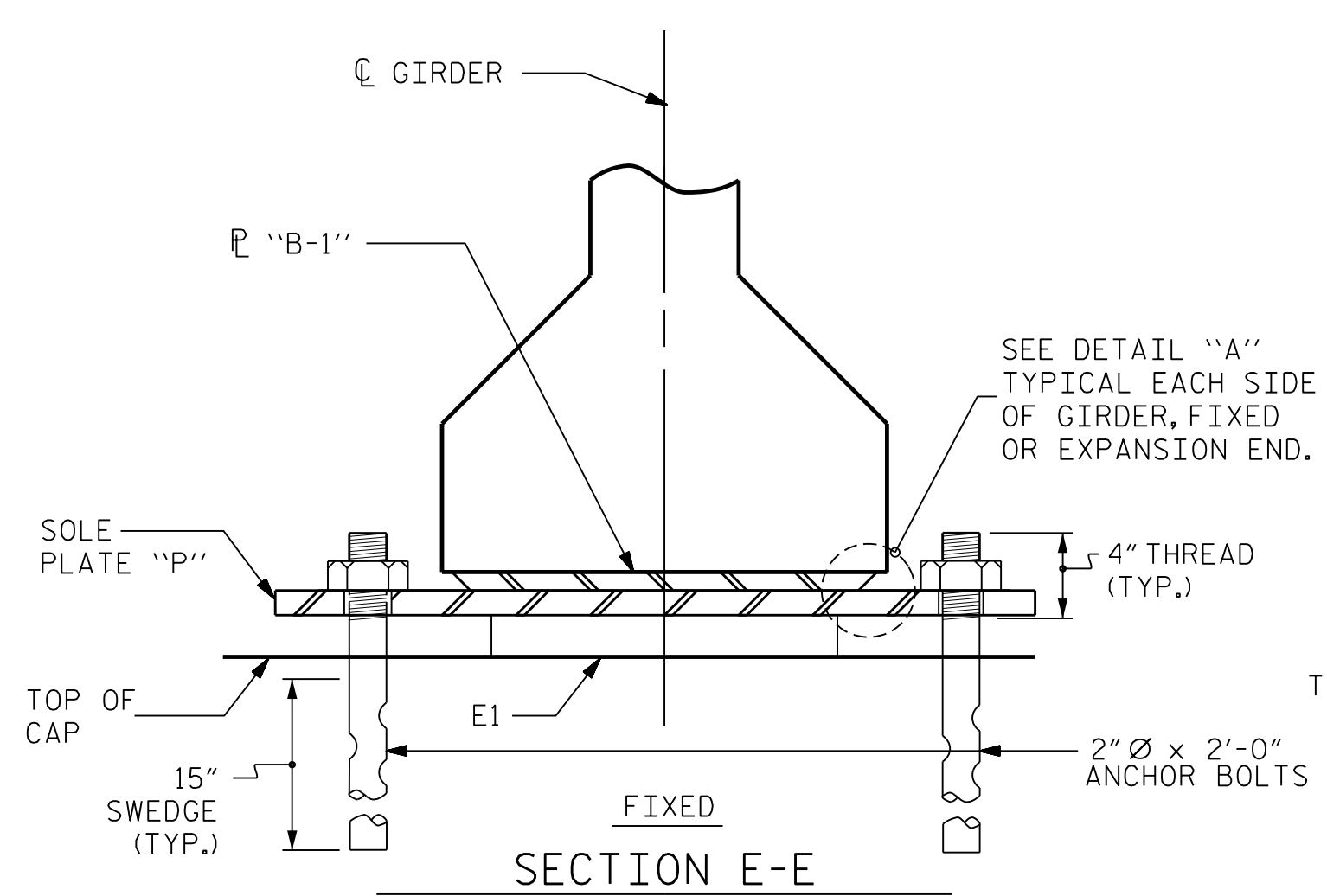
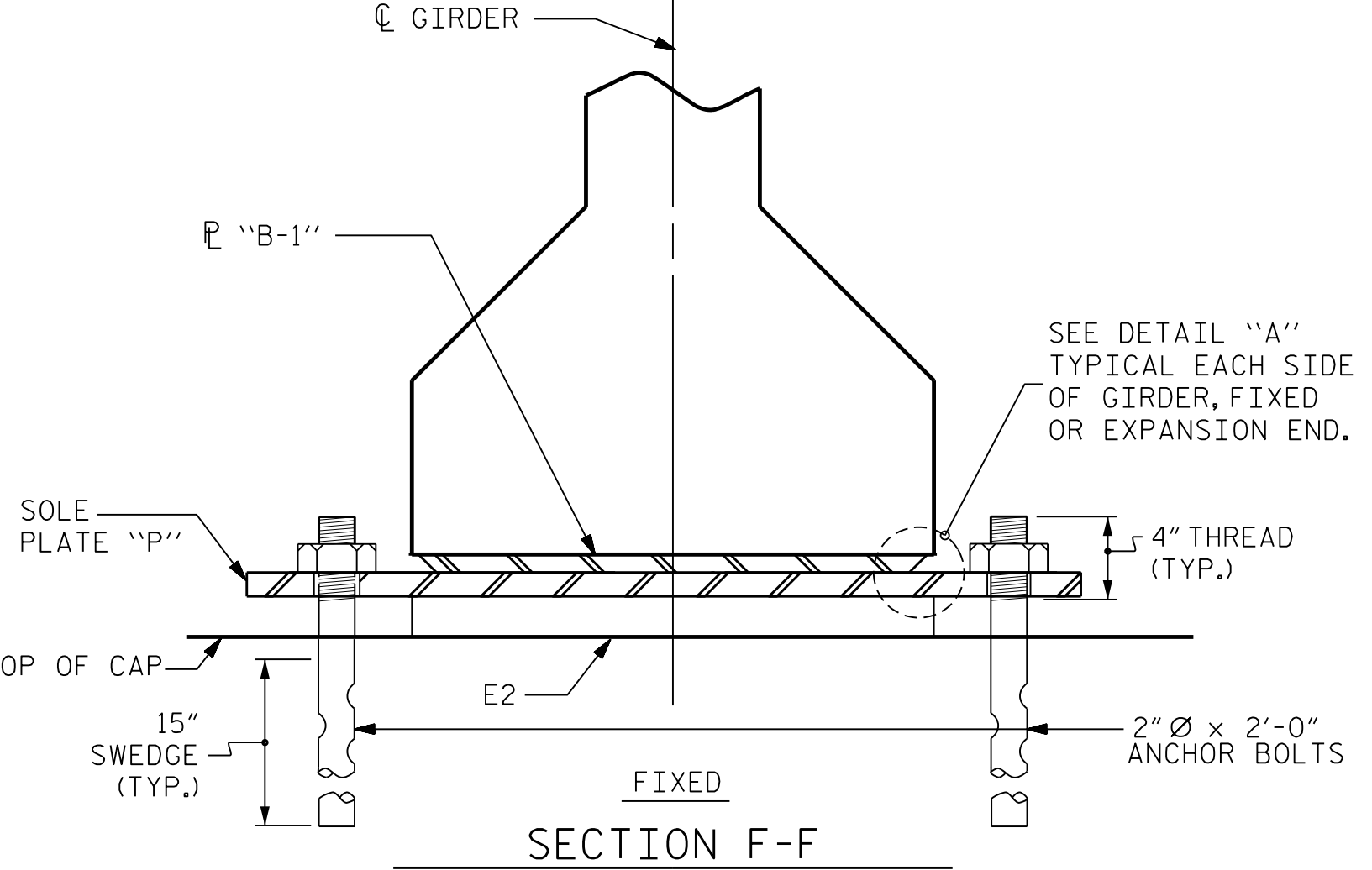


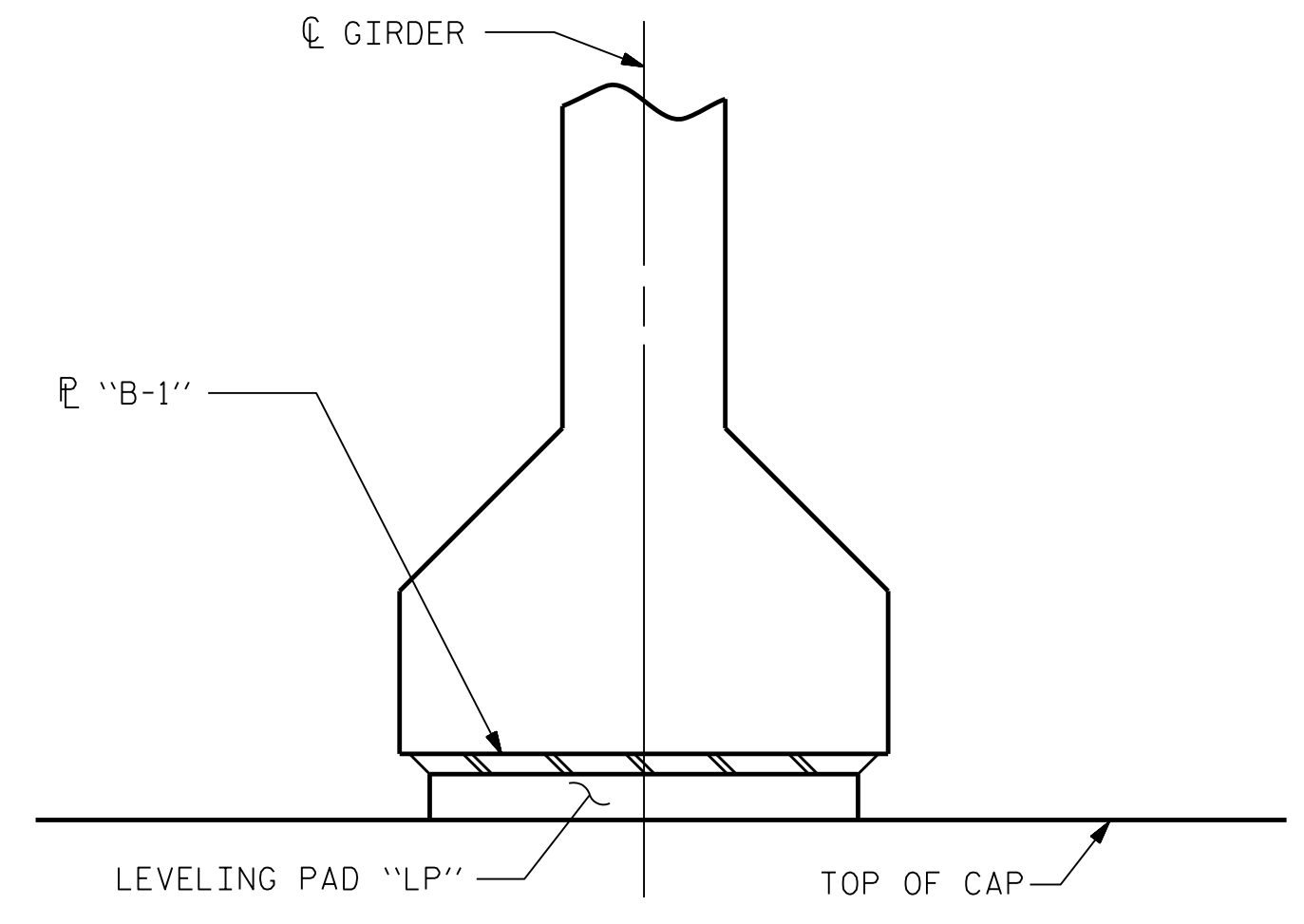
PLOT DRIVER: NCDOT STRUCTURES DEFAULT PLOTTER.PHT
 PENTABLE: NCDOT STRUCTURES DEFAULT PEN.FBI
 USER: dcarte
 DATE: 2/19/2018
 TIME: 1:43:51 PM
 FILE: ...\\structures\dgm\Final\CAD\0570



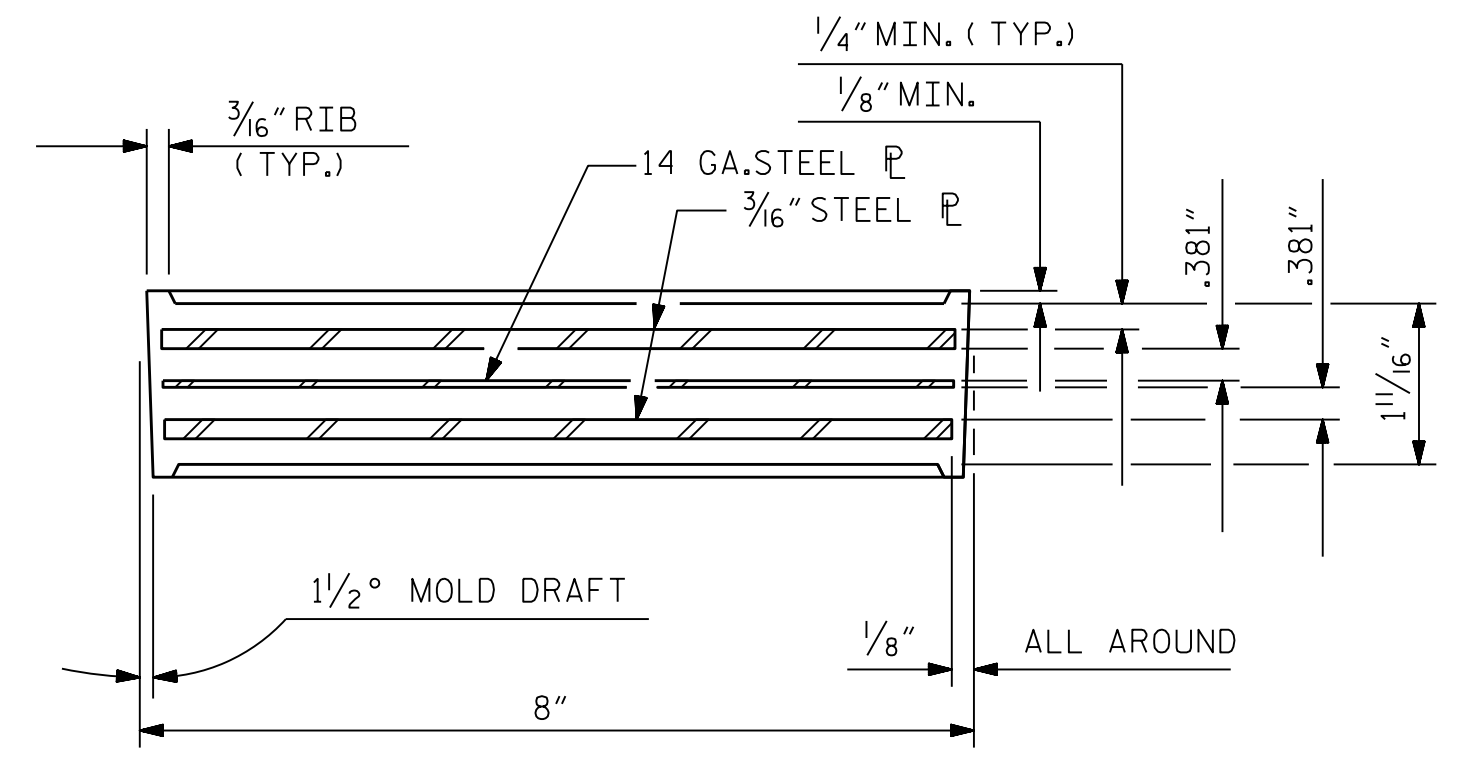
SECTION E-E



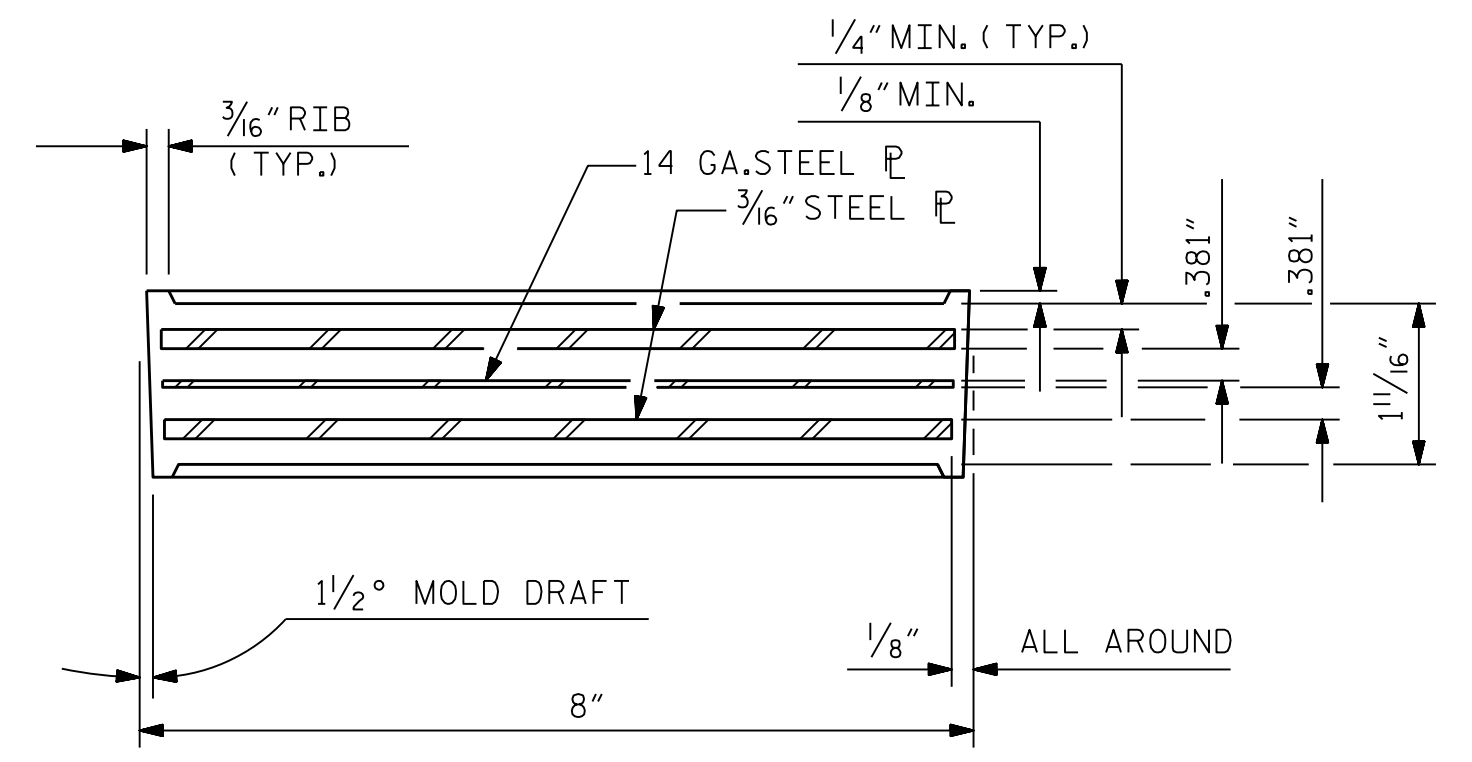
SECTION F-F



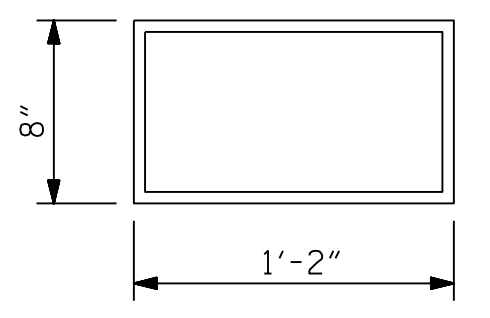
SECTION B-B



TYPICAL SECTION OF ELASTOMERIC BEARINGS



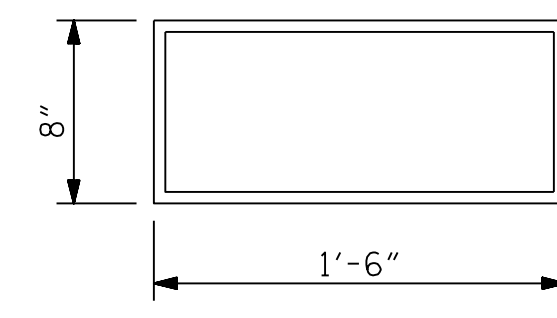
TYPICAL SECTION OF ELASTOMERIC BEARINGS



E1 (12 REQ'D)

PLAN VIEW OF ELASTOMERIC BEARING

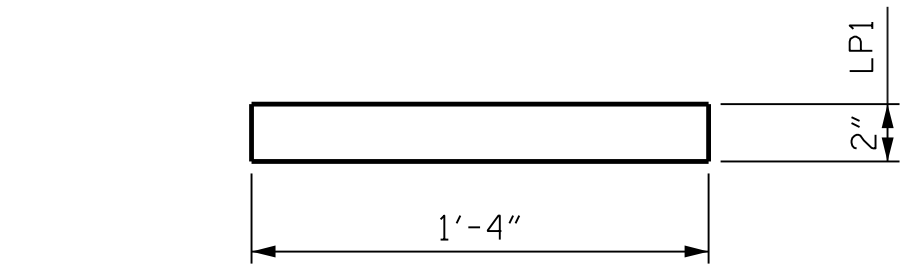
TYPE II



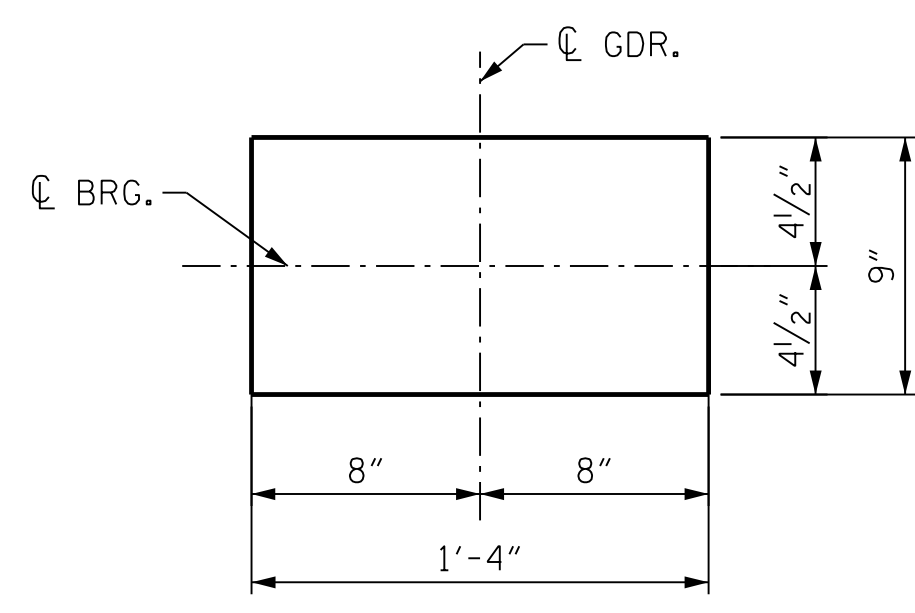
E2 (12 REQ'D)

PLAN VIEW OF ELASTOMERIC BEARING

TYPE III



TYPICAL SECTION OF ELASTOMERIC LEVELING PAD



LP1 (12 REQ'D)

PLAN VIEW OF ELASTOMERIC LEVELING PAD

(LEVELING PADS SHALL BE 60 DUROMETER HARDNESS)

NOTES

AT ALL FIXED POINTS OF SUPPORT, 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 THEN BE BURRED WITH A SHARP POINTED TOOL.

STEEL SOLE PLATES, ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

PRIOR TO WELDING, GRIND THE GALVANIZED SURFACE OF THE PORTION OF THE EMBEDDED PLATE AND SOLE PLATE THAT ARE TO BE WELDED. AFTER WELDING, DAMAGED GALVANIZED SURFACES SHALL BE REPAIRED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

WHEN WELDING THE SOLE PLATE TO THE EMBEDDED PLATE IN THE GIRDER, USE TEMPERATURE INDICATING WAX PENS, OR OTHER SUITABLE MEANS, TO ENSURE THAT THE TEMPERATURE OF THE SOLE PLATE DOES NOT EXCEED 300°F. TEMPERATURES ABOVE THIS MAY DAMAGE THE ELASTOMER.

SOLE PLATE "P", BOLTS, NUTS, WASHERS, AND PIPE SLEEVE SHALL BE INCLUDED IN THE PAY ITEM FOR PRESTRESSED CONCRETE GIRDERS.

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 BOLT, NUTS AND WASHERS. SHOP INSPECTION IS REQUIRED.

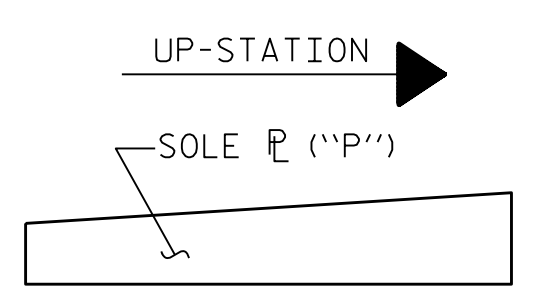
ALL SURFACES OF BEARING PLATES SHALL BE SMOOTH AND STRAIGHT.

THE ELASTOMER IN THE STEEL REINFORCED BEARINGS SHALL HAVE A SHEAR MODULUS OF 0.160 KSI, IN ACCORDANCE WITH AASHTO M251.

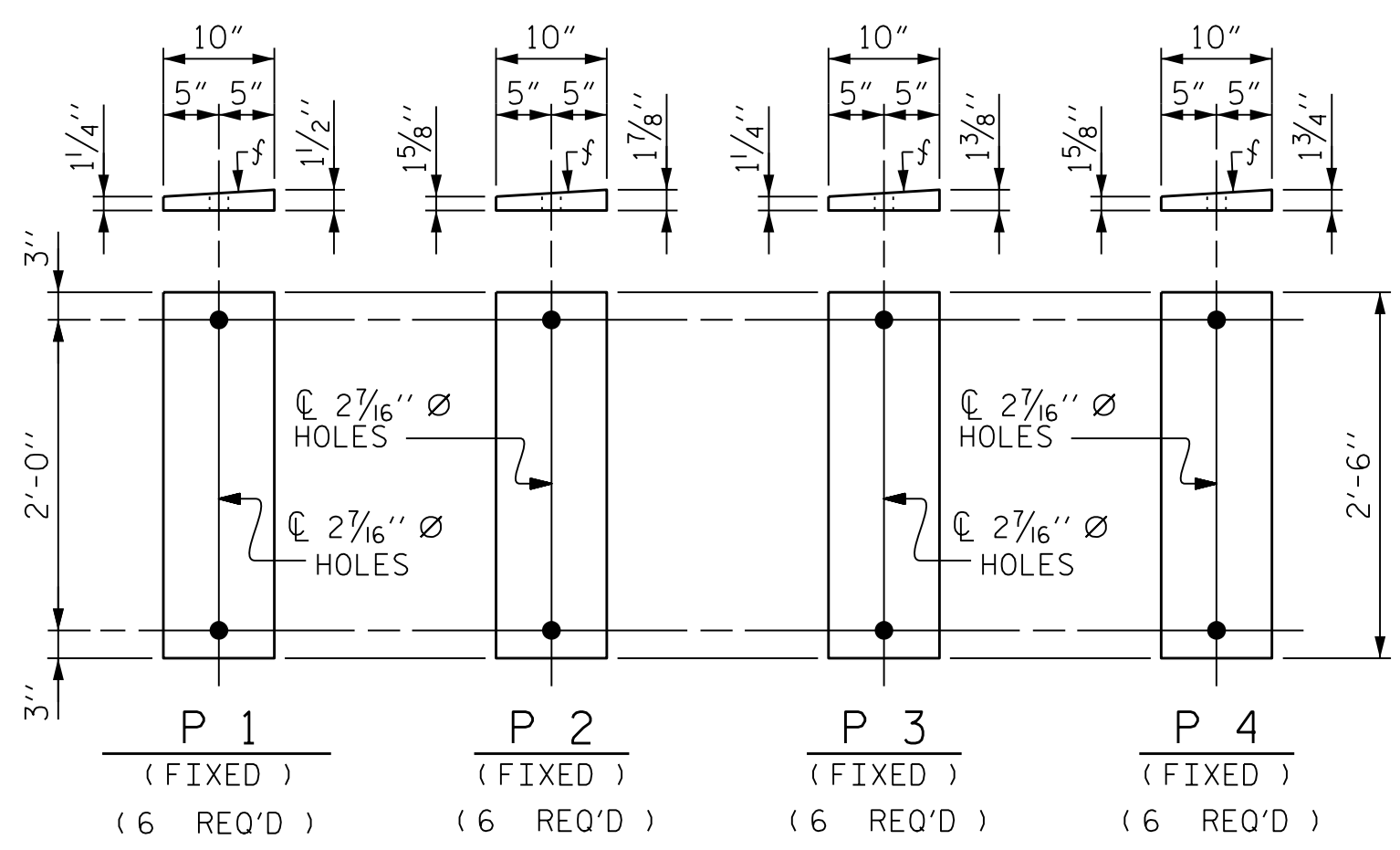
FOR STEEL REINFORCED ELASTOMERIC BEARINGS, SEE SPECIAL PROVISIONS.

ALL SOLE PLATES SHALL BE AASHTO M270 GRADE 36.

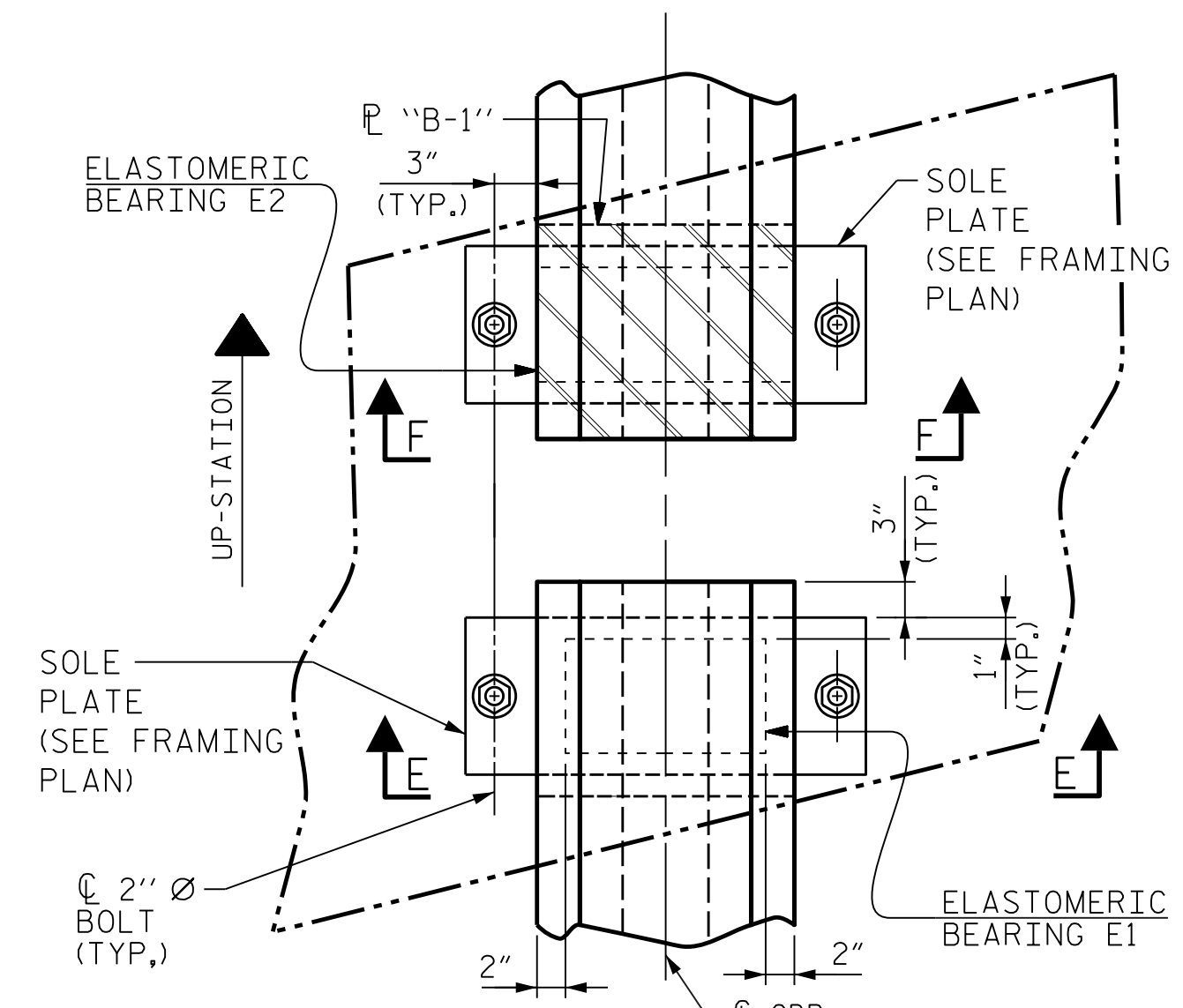
MAXIMUM ALLOWABLE SERVICE LOADS	
D.L.+L.L. (NO IMPACT)	
TYPE II	145 K
TYPE III	205 K



SOLE PLATE PLACEMENT DETAIL

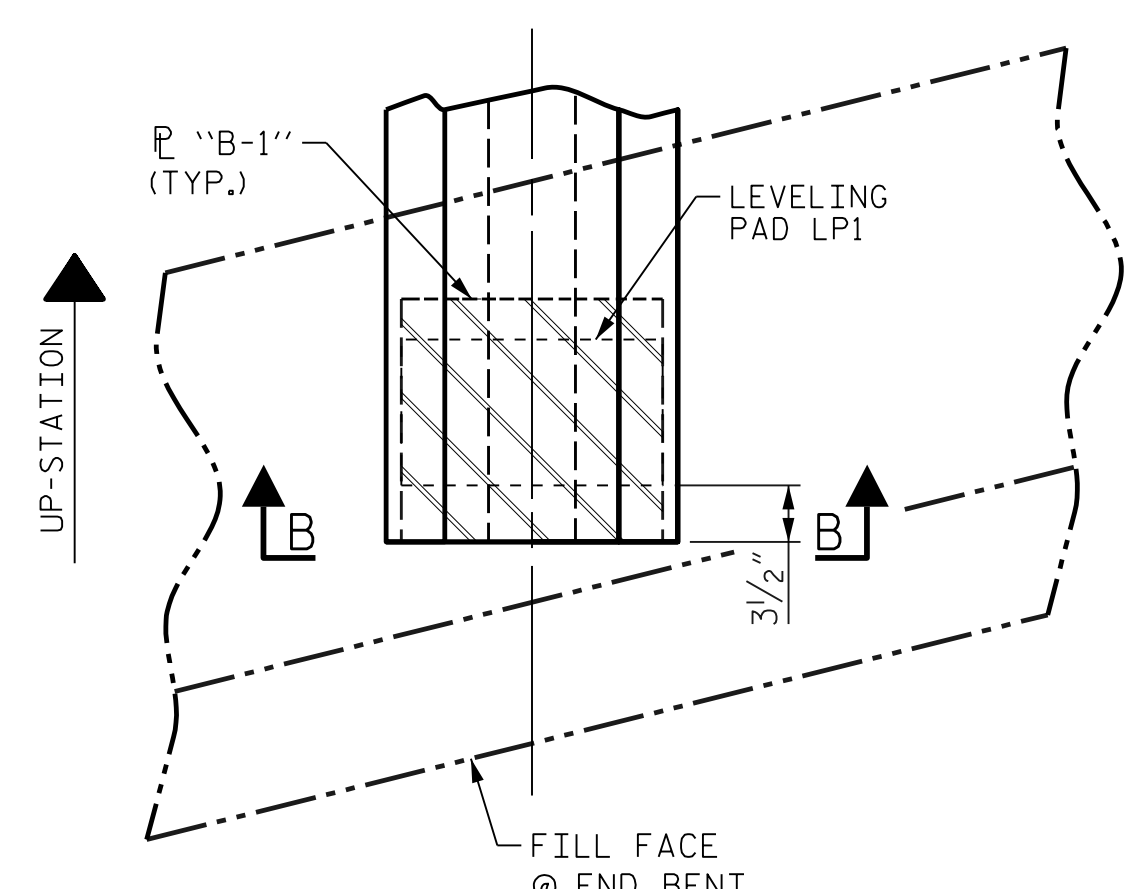


SOLE PLATE DETAILS ("P")



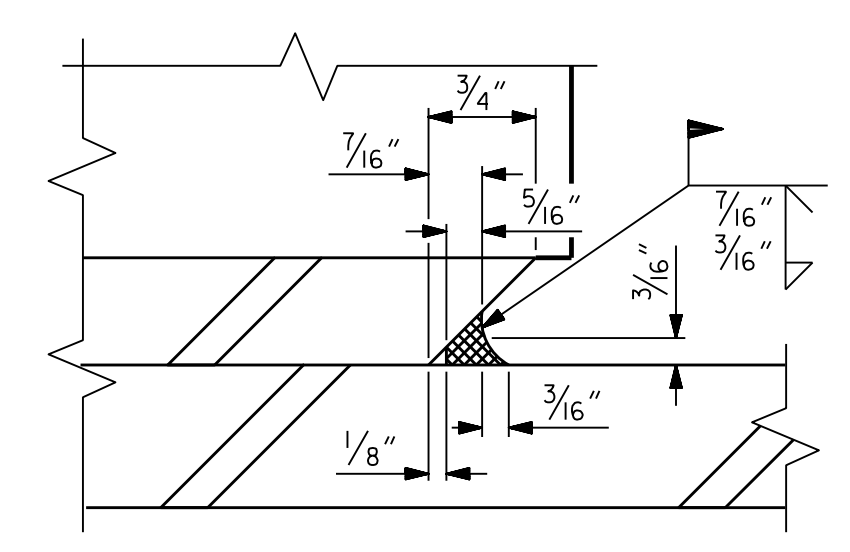
PLAN VIEW AT BENT

BENT 1 SHOWN, BENT 2 SIMILAR



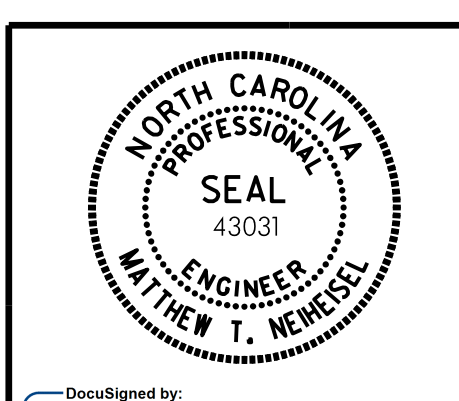
PLAN AT END BENT

END BENT 1 SHOWN, END BENT 2 SIMILAR



DETAIL "A"

PROJECT NO. B-5352
 ROCKINGHAM COUNTY
 STATION: P.O.T. 22+16.89 -L-



DocuSigned by:
 Matthew T. Neiheisel
 2/20/2018
 84E318F9E3074E

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH

SUPERSTRUCTURE
 ELASTOMERIC BEARING
 DETAILS
 PRESTRESSED CONCRETE GIRDER
 SUPERSTRUCTURE

REVISIONS				SHEET NO.	
BY:	DATE:	NO.	BY:	DATE:	S-19
		3			TOTAL SHEETS
		4			37

DRAWN BY: D. H. CARTER DATE: FEB 2018
 CHECKED BY: M. T. NEIHEISEL DATE: FEB 2018
 DESIGN ENGINEER OF RECORD: M. T. NEIHEISEL DATE: FEB 2018

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 NC License No: F-0258

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