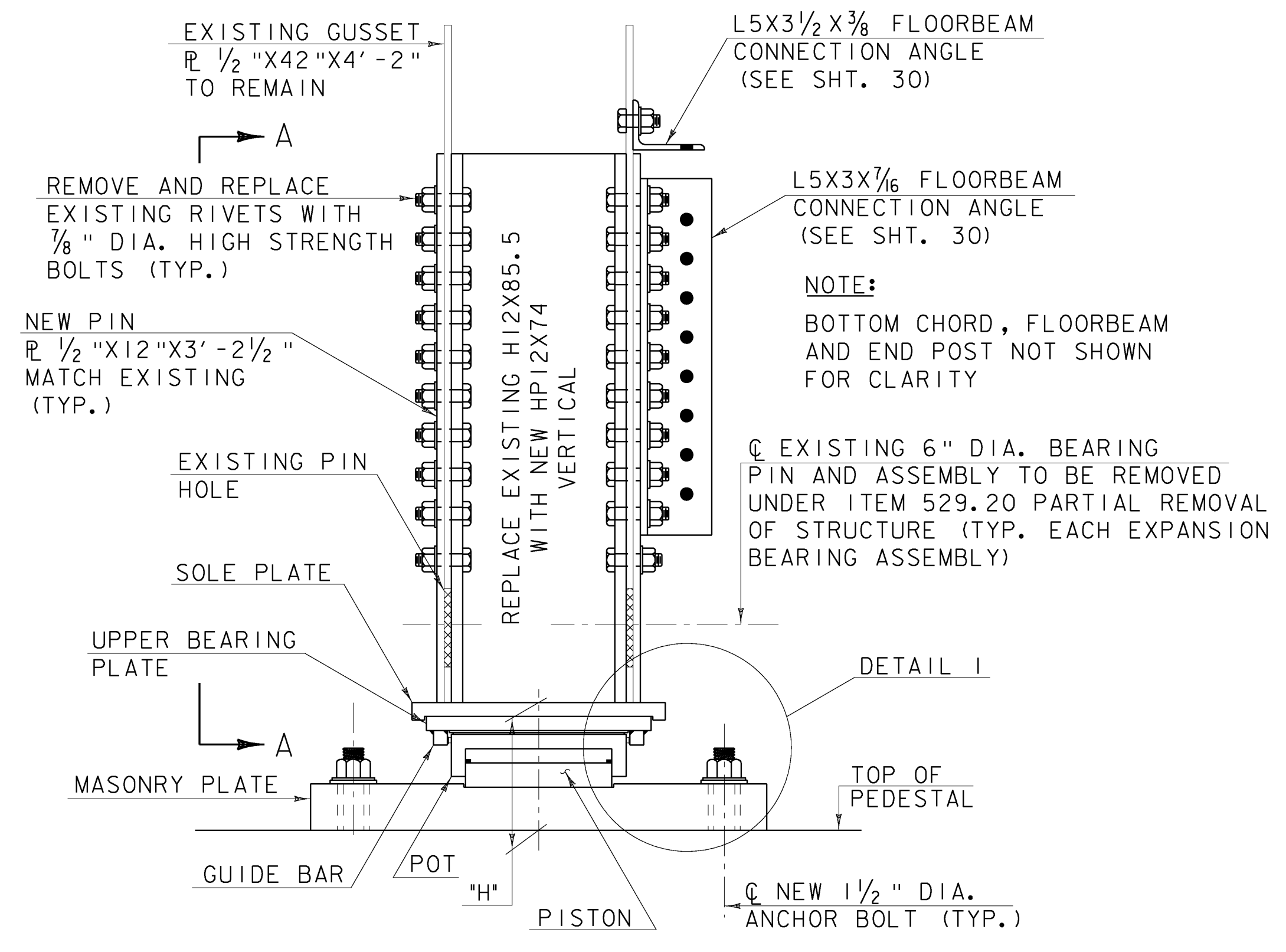
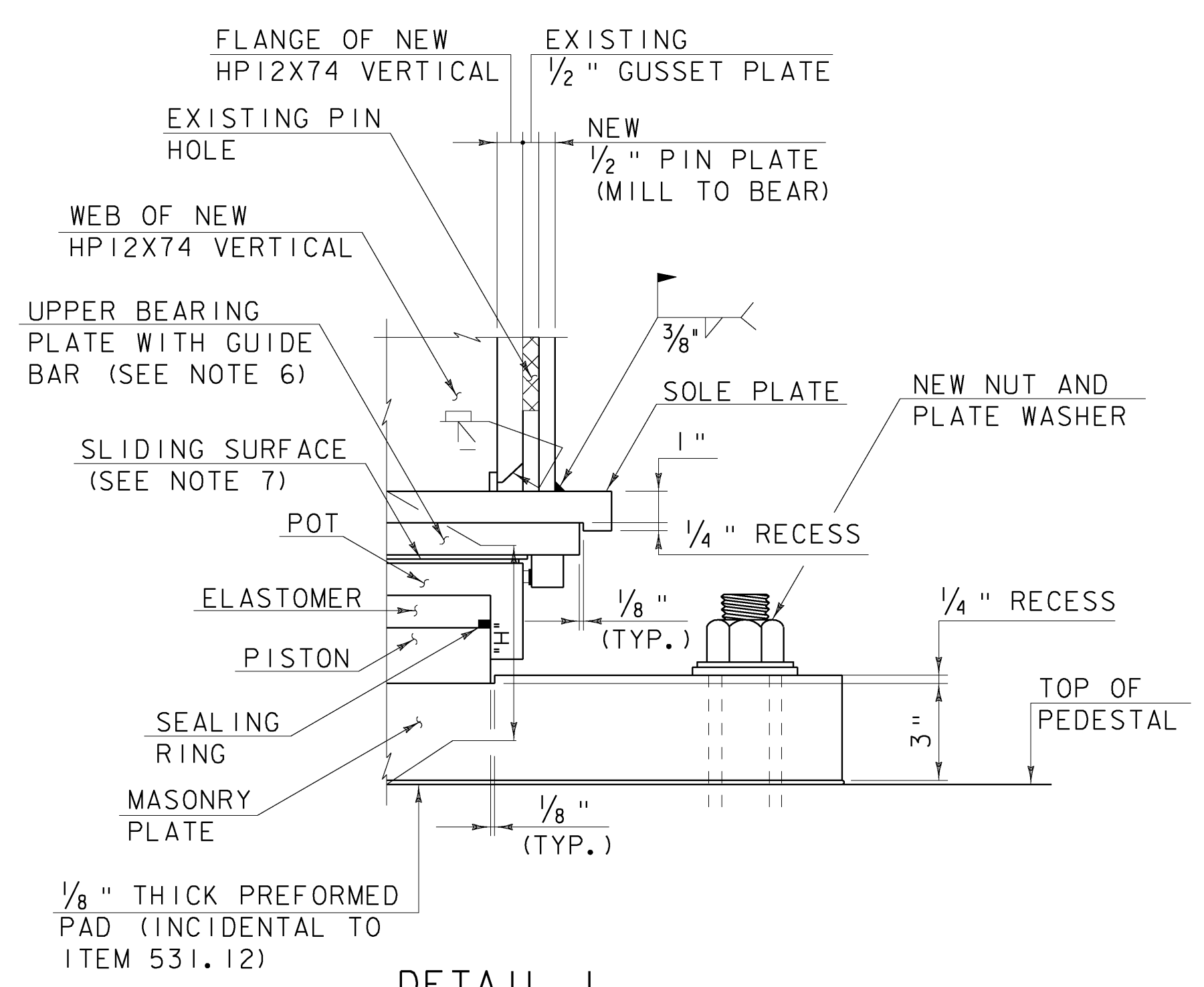


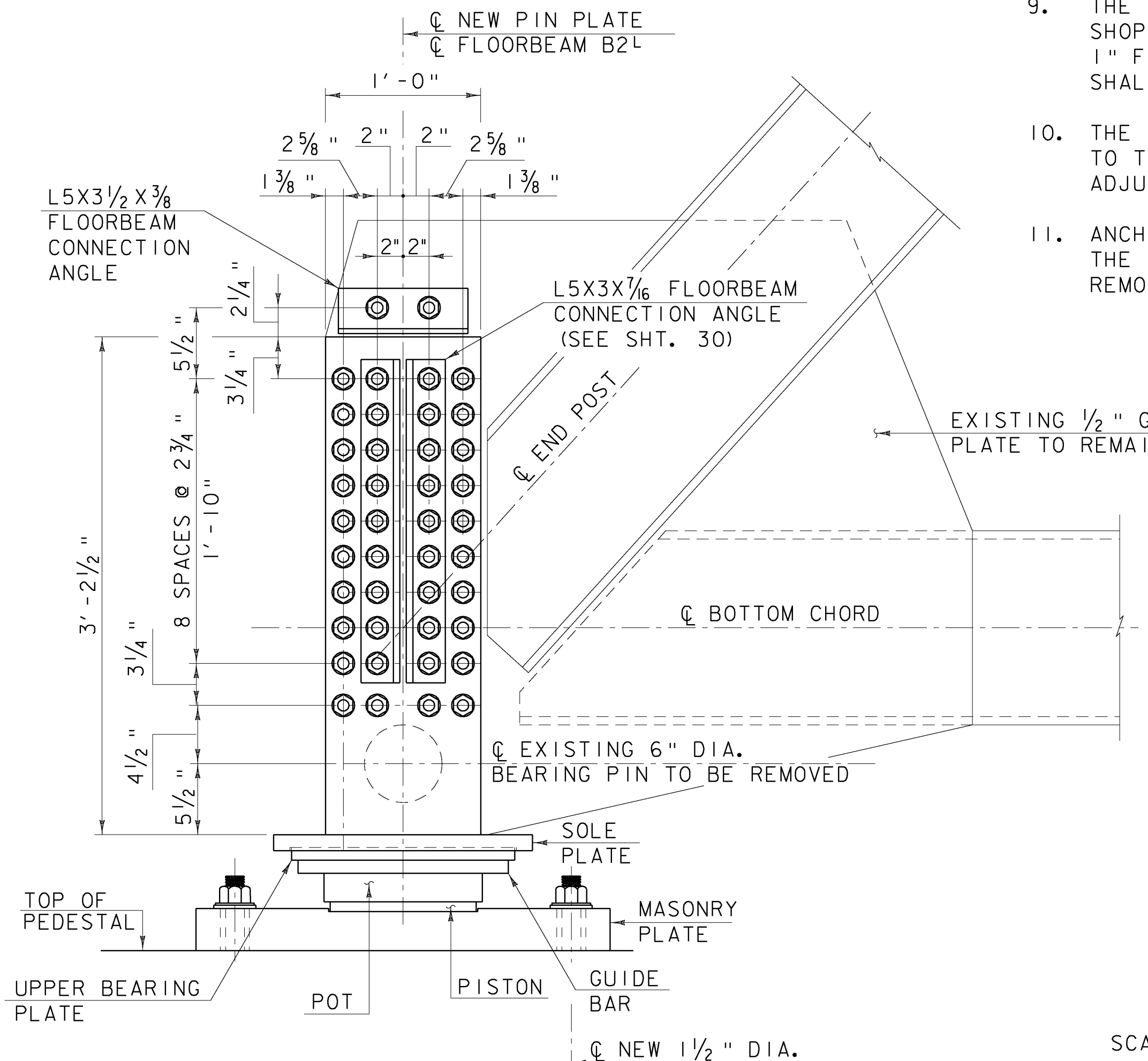
PLAN
SCALE: 1/2" = 1'-0"



ELEVATION
SCALE: 1/2" = 1'-0"
(EAST BEARING SHOWN
WEST BEARING SIMILAR)



DETAIL I
SCALE: 1/2" = 1'-0"



SECTION A-A
SCALE: 1/2" = 1'-0"

BEARING NOTES:

- POT BEARING ASSEMBLIES SHALL BE PAID FOR UNDER ITEM 531.12 BEARING DEVICE ASSEMBLY, POT. SOLE PLATES, MASONRY PLATES, ANCHOR BOLTS AND PLATE WASHERS SHALL NOT BE PAID FOR DIRECTLY, BUT SHALL BE INCLUDED UNDER ITEM 531.12. ALL NEW STEEL ABOVE THE TOP OF THE SOLE PLATES SHALL BE PAID FOR AS ITEM 506.60 STRUCTURAL STEEL. FABRICATION DRAWINGS SHALL BE SUBMITTED IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 105. PLANS AND DESIGN CALCULATIONS SHALL BE STAMPED BY A QUALIFIED PROFESSIONAL ENGINEER.
- PEDESTAL ELEVATIONS ARE BASED UPON THE POT BEARING ASSEMBLIES HAVING THE THICKNESS OF "H". IF THE THICKNESS OF THE NEW BEARING IS DIFFERENT THAN SHOWN, NEW PEDESTAL ELEVATIONS SHALL BE COMPUTED AND SUBMITTED BY THE CONTRACTOR TO THE RESIDENT ENGINEER FOR APPROVAL PRIOR TO PLACING CONCRETE. ANY ADDITIONAL COST DUE TO MODIFICATIONS BY THE CONTRACTOR SHALL BE AT THE CONTRACTOR'S EXPENSE.
- THE MASONRY PLATE SHALL BE ONE PLATE.
- THE CENTERLINE OF ALL BEARING COMPONENTS SHALL BE IN LINE AT 45° F.
- GUIDED EXPANSION BEARINGS SHALL BE SELF ALIGNING.
- GUIDE BARS SHALL BE ATTACHED TO THE UPPER BEARING PLATE BY THE MANUFACTURER.
- ALL EXPANSION BEARINGS SHALL HAVE A MAXIMUM COEFFICIENT OF FRICTION OF 4%. THE TEMPERATURE OF THE STEEL ADJACENT TO THE ELASTOMER SHALL NOT EXCEED 200° F. TEMPERATURE SHALL BE CONTROLLED BY WELDING PROCEDURES AND TEMPERATURE INDICATING CRAYONS OR OTHER DEVICES APPROVED BY THE RESIDENT ENGINEER.
- MASONRY PLATES, SOLE PLATES, HP12X74 VERTICAL, NUTS AND PLATE WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH STANDARD SPECIFICATION SUBSECTION 506.15. THE SOLE PLATE AND HP12X74 VERTICAL SHALL BE GALVANIZED AS A SINGLE UNIT.
- THE PIN PLATES SHALL BE SHOP PAINTED UNDER ITEM 513.25 STRUCTURAL PAINTING, SHOP APPLIED AND SHALL BE FIELD WELDED TO THE SOLE PLATE. TERMINATE ALL WELDS 1" FROM THE END OF THE PLATE. ANY GALVANIZED SURFACE DAMAGED DURING ERECTION SHALL BE REPAIRED IN ACCORDANCE WITH STANDARD SPECIFICATION SUBSECTION 513.06.
- THE CONTRACTOR SHALL SUBMIT THE NEW BEARING INSTALLATION PROCEDURE TO THE RESIDENT ENGINEER FOR REVIEW. PROCEDURE SHALL INCLUDE BEARING ADJUSTMENT SETTINGS DEPENDING UPON TEMPERATURE AT TIME OF ERECTION.
- ANCHOR BOLTS WILL HAVE AN 1/8" GAP BETWEEN THE BOTTOM OF THE NUT AND THE TOP OF THE WASHER. BURR THE THREADS ON ALL ANCHOR BOLTS TO PREVENT REMOVAL OF THE NUTS.

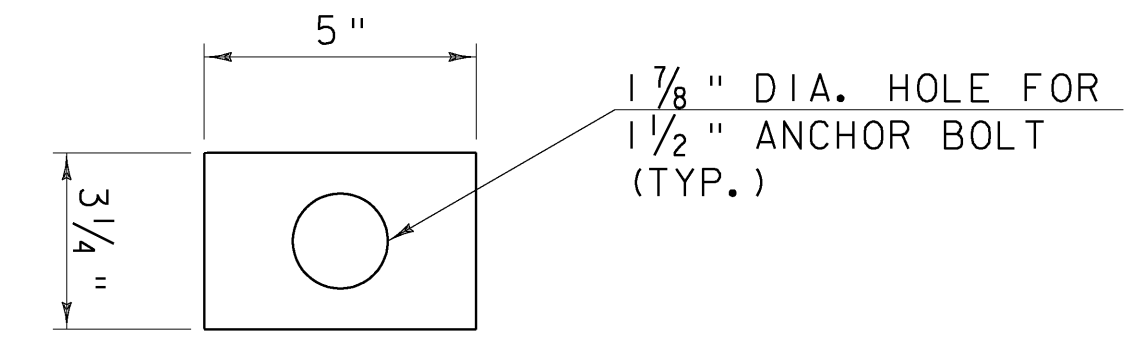
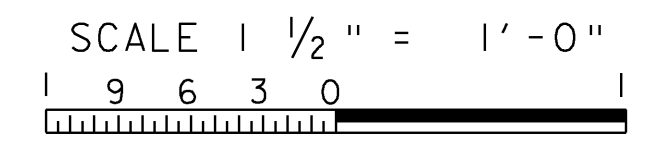


PLATE WASHER DETAIL
NOT TO SCALE

EXPANSION BEARING TABLE					
DESIGN LOADS			LIVE LOAD ROTATION (RAD)	ONE-WAY MOVEMENT (IN)	H (IN)
TOTAL DL (KIPS)	TOTAL LL+I (KIPS)	HORIZONTAL (KIPS)			
150	115	14	.015	1.00	8.05

NOTE:

THE ONE WAY MOVEMENT SHOWN ON THE BEARING TABLE IS THE MAXIMUM MOVEMENT (EXPANSION OR CONTRACTION) OF THE SUPERSTRUCTURE WHEN BEARINGS AND SUPERSTRUCTURE ARE SET AT 45° F.



EXPANSION BEARING DETAILS

PROJECT NAME: MONTPELIER	FILE NAME: \$FILES\$	PLOT DATE: 10/12/2009
PROJECT NUMBER: BHF 6400(31)	PROJECT MANAGER: SUSAN SCRIBNER	DRAWN BY: D. D'AMATO
	DESIGNED BY: D. D'AMATO	CHECKED BY: P. PERKINS
	BRIDGE DESIGN SUPERVISOR: P. HALSTEAD	SHEET 32 OF 63



FILE NAME: I:\14596\mtn\p\lens\14596_expansion_bear.rng.dgn
DATE/TIME: 10/12/2009 10:25:52
USER: PPERKINS