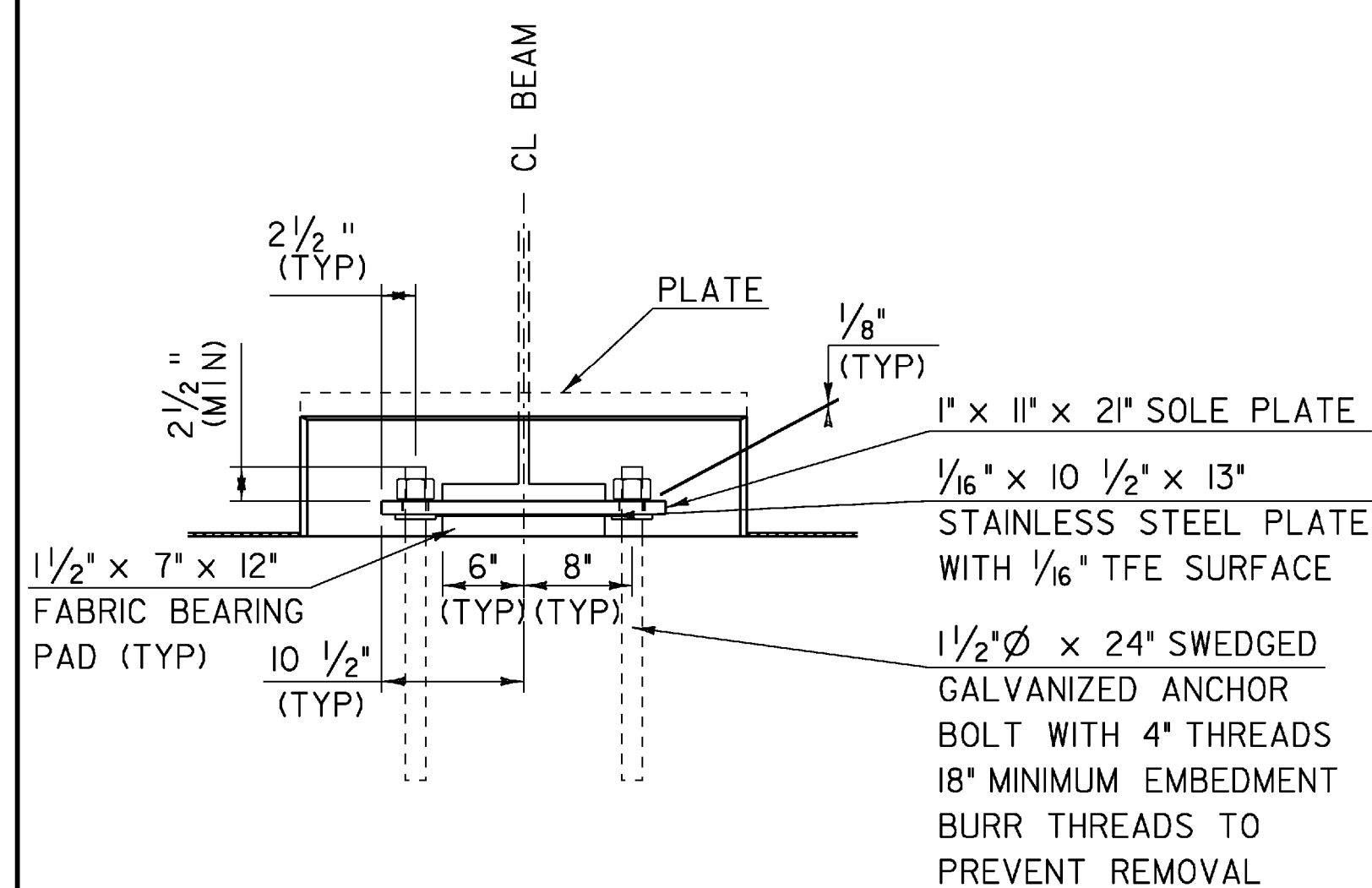
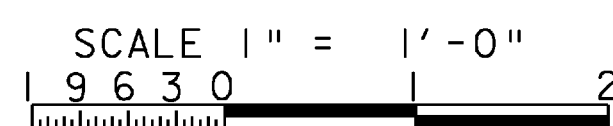
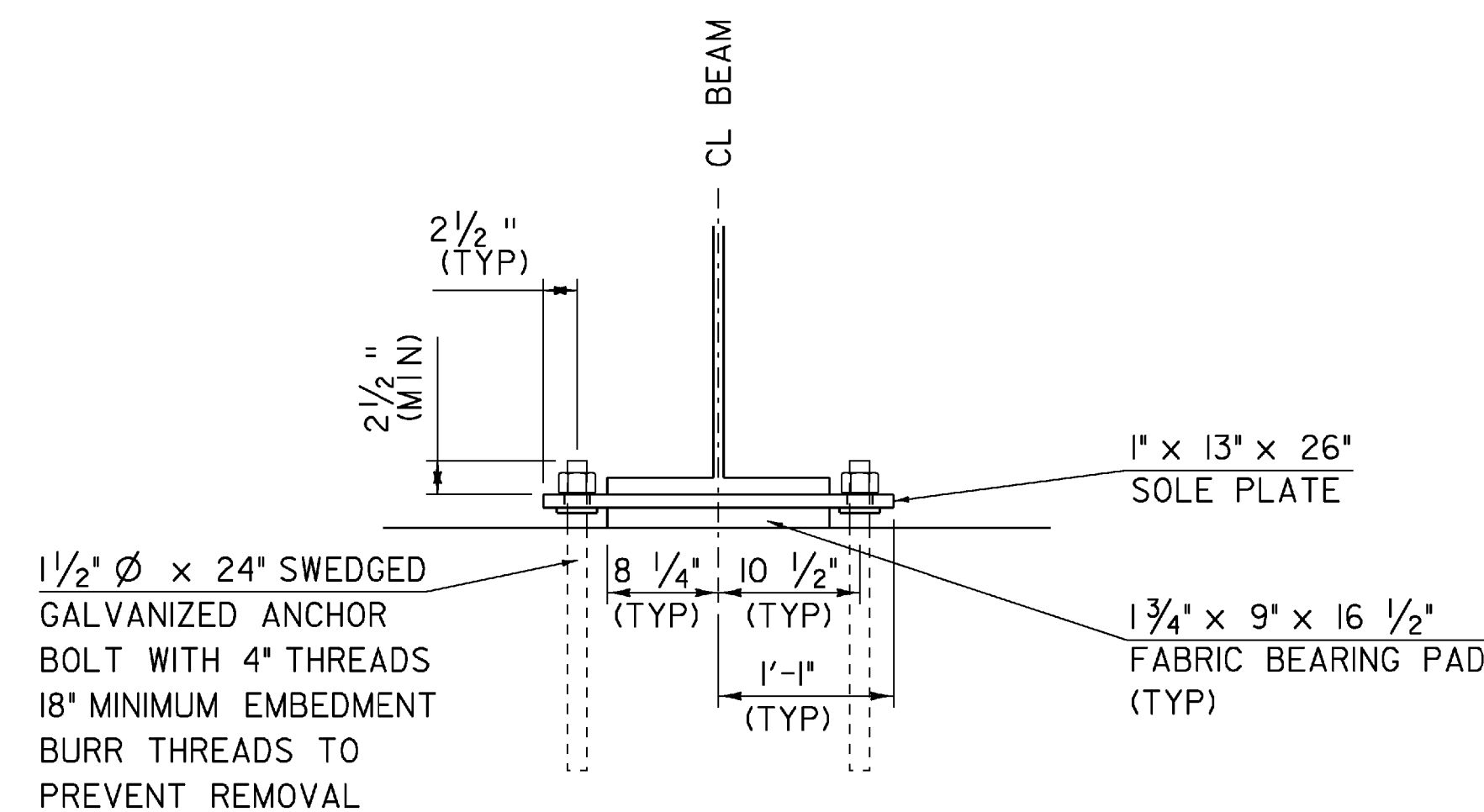
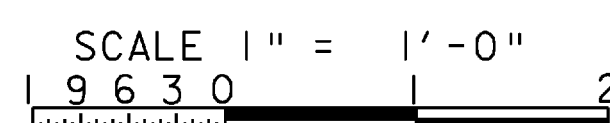


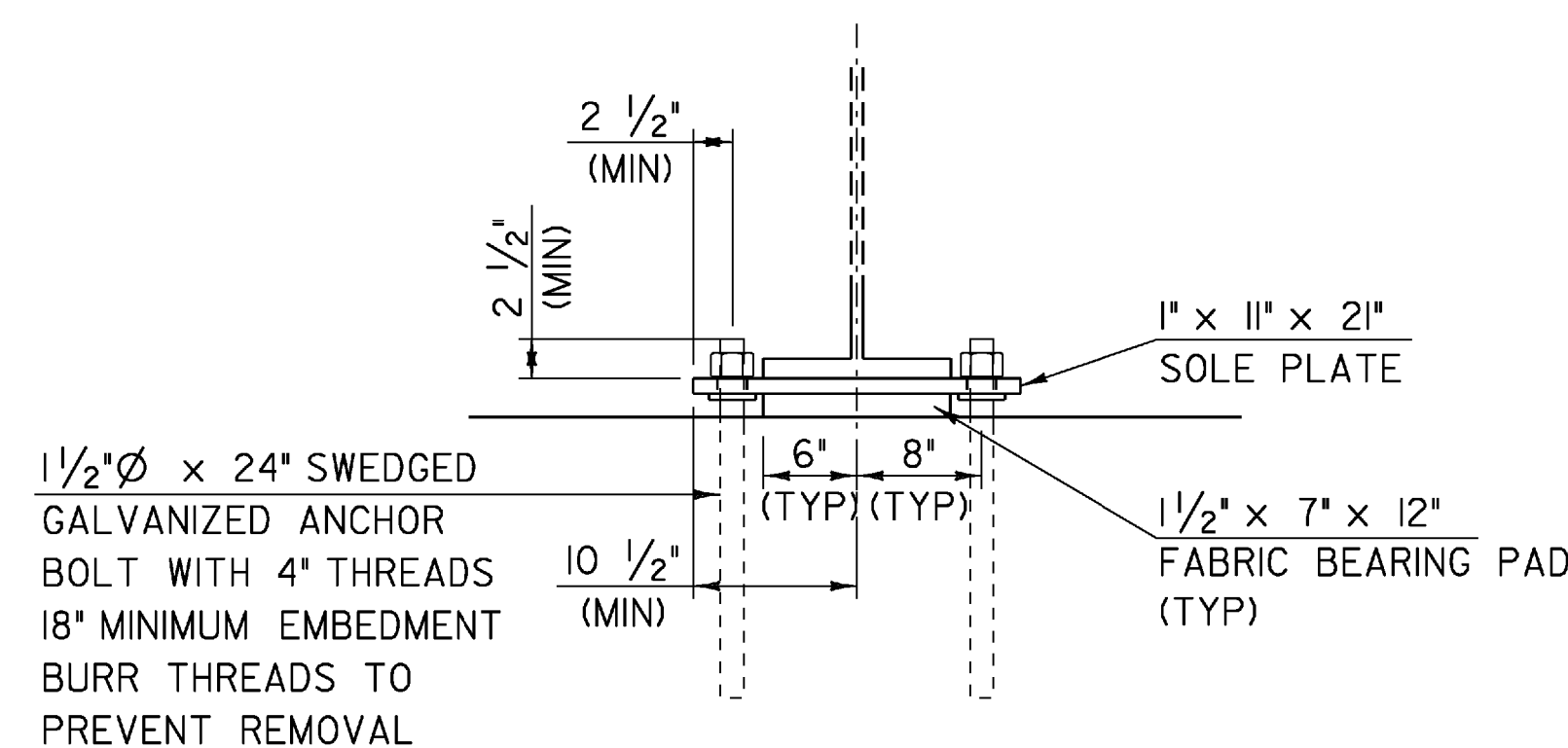
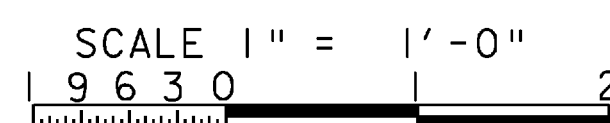
EXPANSION BEARING
 ABUTMENT 1 BEAMS 2 THROUGH 9
 ABUTMENT 2 BEAMS 12 THROUGH 19



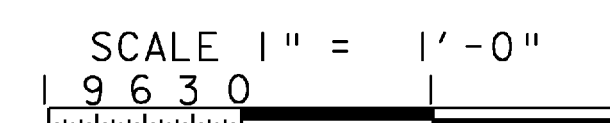
EXPANSION BEARING
 ABUTMENT 1 BEAMS 1 AND 10
 ABUTMENT 2 BEAMS 11 AND 20



FIXED BEARING
 PIER (C/L BRG SPAN 1)
 BEAMS 2 THROUGH 9
 PIER (C/L BRG SPAN 2)
 BEAMS 12 THROUGH 19



FIXED BEARING
 PIER (C/L BRG SPAN 1)
 BEAMS 1 AND 10
 PIER (C/L BRG SPAN 2)
 BEAMS 11 AND 20



BEARING NOTES

- BEARINGS SHALL BE PAID FOR UNDER ITEM 531.10, "BEARING DEVICE ASSEMBLY, PREFORMED FABRIC PAD" AND SHALL CONFORM TO APPLICABLE SUBSECTIONS OF SECTION 531 AND 731. FABRICATION DRAWINGS CONFORMING TO SUBSECTION 531.03 SHALL BE SUBMITTED AND INCLUDE ANY NECESSARY WELDING OR BONDING PROCEDURES.
- NEW 1 1/2" ANCHOR BOLTS SHALL BE INSTALLED BY DRILLING HOLES AND GROUTING THE BOLTS INTO THE ABUTMENT OR PIER SEATS. DRILLING AND GROUTING THE ANCHOR BOLTS SHALL BE INCIDENTAL TO ITEM 531.10, "BEARING DEVICE ASSEMBLY, PREFORMED FABRIC PAD". ANCHOR BOLTS SHALL HAVE A MINIMUM EMBEDMENT OF 18" INTO CONCRETE AND SHALL CONFORM TO STANDARD SPECIFICATION 714.08.
- THE FIELD WELD CONNECTING THE BOTTOM FLANGE WITH THE BEARING DEVICE SHALL BE MADE WITH E7018 ELECTRODES. THE CONTRACTOR SHALL ENSURE THE HEAT FROM WELDING DOES NOT DAMAGE THE BEARING PAD. AREAS OF GALVANIZING OR METALIZING DAMAGED BY WELDING AND/OR HANDLING SHALL BE REPAIRED IN ACCORDANCE WITH SECTION 513. WELD PROCEDURES MUST BE SUBMITTED FOR REVIEW.
- ALTERNATE CONFIGURATIONS FOR BEARINGS MAY BE SUBMITTED FOR APPROVAL. ANY ALTERNATE SUBMITTED SHALL BE DESIGNED AND CERTIFIED TO MEET THE DESIGN LOADS AND CRITERIA SHOWN ON THIS SHEET AND SHALL MAINTAIN THE ANCHORAGE SYSTEM SHOWN.
- MASONRY SURFACES UNDER BEARINGS SHALL BE SMOOTH AND LEVEL BEFORE INSTALLING BEARING DEVICES. EXISTING ANCHOR BOLTS SHALL BE CUT FLUSH AND SMOOTH WITH THE BRIDGE SEAT. THIS WORK SHALL BE INCIDENTAL TO ITEM 531.10, "BEARING DEVICE ASSEMBLY, PREFORMED FABRIC PAD"
- BEARINGS MUST BE INSTALLED BEFORE THE DIAPHRAGMS AND ANCHOR BOLTS ARE INSTALLED.

DESIGN CRITERIA:

- BEARING PAD TO CONCRETE DESIGN PRESSURE = 1000 PSI MAXIMUM
- MINIMUM ALLOWABLE DESIGN ROTATION = 0.015 RADIANS.
- HORIZONTAL CAPACITY SHALL BE A MINIMUM 10% OF VERTICAL LOAD
- DESIGN LOAD PER BEARING (UNFACTORED)

	BEAMS 2-9	BEAMS 1&10	BEAMS 12-19	BEAMS 11&20
DL =	37.2 KIPS	26.6 KIPS	37.2 KIPS	26.6 KIPS
LL+I =	70.6 KIPS	31.9 KIPS	70.6 KIPS	31.9 KIPS
SDL =	9.4 KIPS	25.9 KIPS	9.4 KIPS	25.9 KIPS

- ALL JACKING AND SHORING REQUIRED TO REPLACE BEARINGS WILL BE PAID FOR UNDER ITEM 502.11, "SHORING SUPERSTRUCTURE BEARINGS". THE CONTRACTOR SHALL SUBMIT DETAILS AND CALCULATIONS FOR SHORING AND JACKING AS SPECIFIED IN SECTION 502.
- THE WORK REQUIRED TO REMOVE EXISTING BEARINGS IN ORDER TO INSTALL NEW BEARINGS AS SHOWN ON THE PLANS, SHALL BE INCLUDED IN ITEM 529.20, "PARTIAL REMOVAL OF STRUCTURE".
- ALL STEEL IN BEARING DEVICES (EXCEPT STAINLESS STEEL) AS WELL AS THE 1/4" PLATE SHALL BE AASHTO M270M/M270, GRADE 36 OR 50.
- ALL BEARING DEVICES SHALL BE GALVANIZED OR METALIZED AS PER STANDARD SPECIFICATIONS 506.15 AND 531.04(b). IF THE BEARINGS ARE METALIZED, THEY SHALL BE SEALED WITH AN APPROVED SEALER AS SPECIFIED IN SUBSECTION 506.15. AREAS OF GALVANIZING OR METALIZING DAMAGED BY FIELD WELDING OR HANDLING SHALL BE REPAIRED IN CONFORMANCE WITH ASTM A-760.
- ALL ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED. ALL WASHERS SHALL BE 3/8" PLATE MINIMUM. PAYMENT FOR ANCHOR BOLTS, NUTS, WASHERS AND THEIR INSTALLATIONS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 531.10, "BEARING DEVICE ASSEMBLY, PREFORMED FABRIC PAD".
- EXISTING HOLES IN THE EXISTING BEAM FLANGES SHALL BE CLEANED AND FILLED WITH JOINT SEALER, POLYURETHANE AS SPECIFIED IN SUBSECTION 707.05. THIS WORK SHALL BE INCIDENTAL TO ITEM 531.10, "BEARING DEVICE ASSEMBLY, PREFORMED FABRIC PAD".

VOID
 SEE REVISED
 SHEET

PROJECT NAME:	SPRINGFIELD
PROJECT NUMBER:	BHF 016-2(14)
FILE NAME:	s06j004sup.dgn
PROJECT LEADER:	R. WHITCOMB
DESIGNED BY:	C. CARLSON
BEARING ELEVATIONS AND NOTES	
PLOT DATE:	04-MAR-2009
DRAWN BY:	C. MOONEY
CHECKED BY:	D. PETERSON
SHEET	34 OF 72