



GIRDER 1 BEARING AT BENT 2



GIRDER 2 BEARING AT BENT 2



GIRDER 1 BEARING AT BENT 2

NOTES

WORK DEFINED IN THIS DRAWING SHALL BE PERFORMED IN ACCORDANCE WITH - AND PAID FOR UNDER - 'STEEL BEARING REPAIRS' AS REFERENCED IN THE PROJECT SPECIAL PROVISIONS.

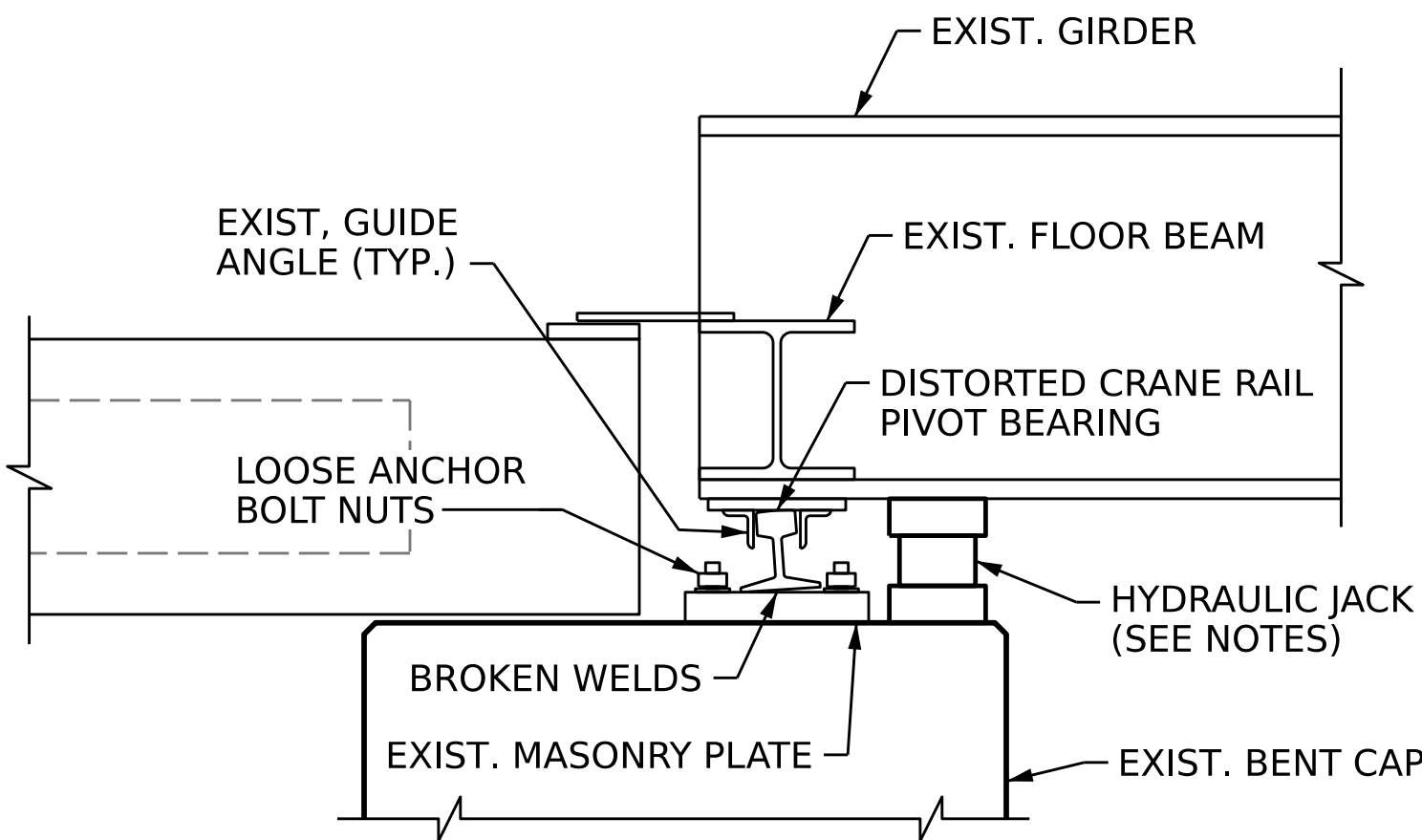
IMAGES ARE TAKEN FROM INSPECTION REPORT DATED 11/01/2023, PRIOR TO BEGINNING ANY REPAIR WORK, FIELD VERIFY EXISTING CONDITIONS. IF EXISTING CONDITIONS VARY SIGNIFICANTLY FROM IMAGES SHOWN, NOTIFY THE ENGINEER IN WRITING PRIOR TO ORDERING MATERIALS OR BEGINNING REPAIR WORK.

CLEAN ANCHOR BOLT THREADS AND TIGHTEN NUTS AS REQUIRED AT GIRDER 1 AND 2 BEARING LOCATIONS. INCLUDE DOUBLE (JAM) NUT ON EXISTING ANCHOR BOLTS AT BOTH GIRDER 1 AND GIRDER 2.

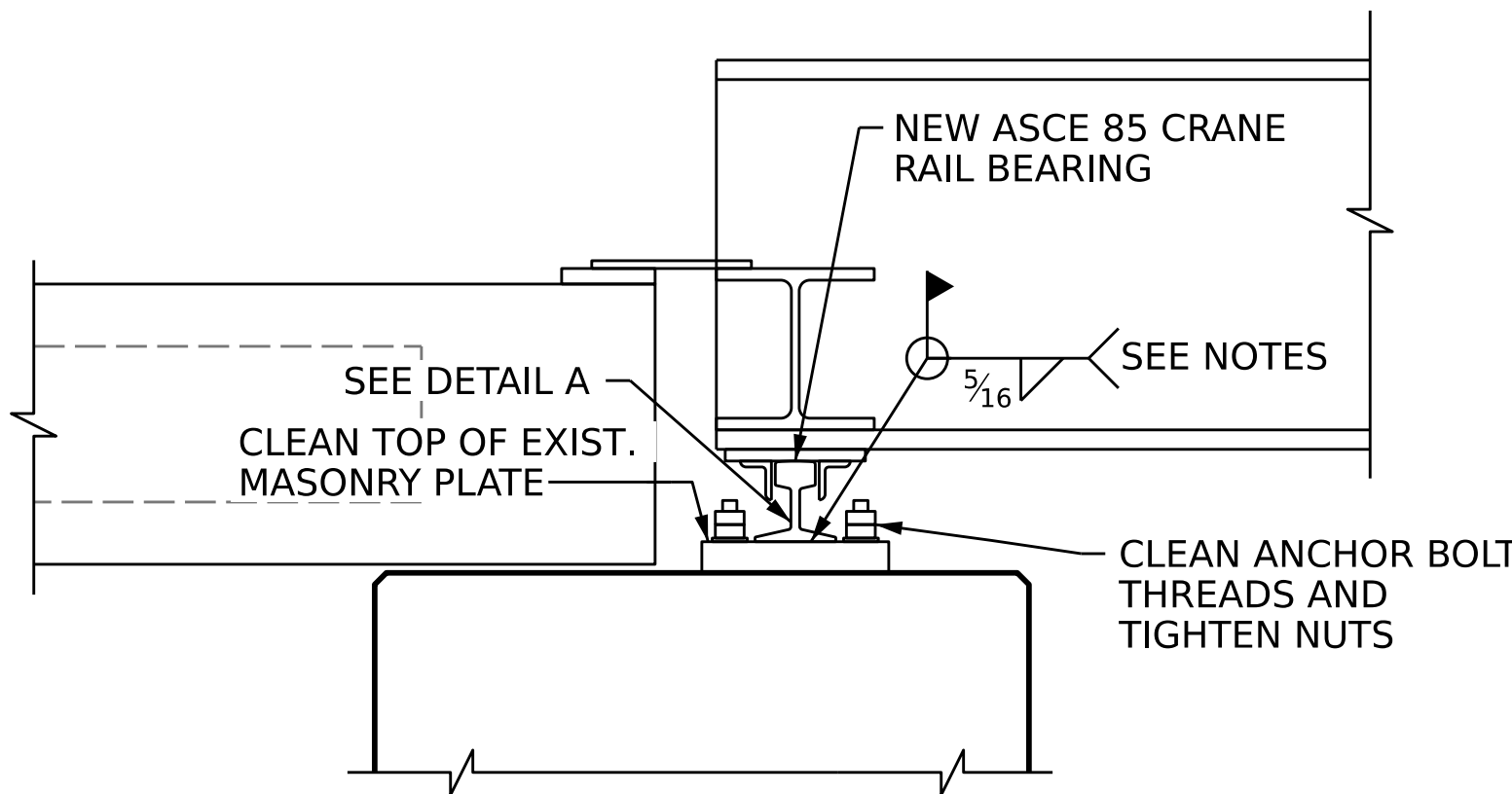
SURFACE PREPARATION FOR WELDING AND/OR PAINTING: REMOVE RUST, PAINT, AND OTHER CONTAMINANTS DOWN TO BARE STEEL TO SSPC-SP3 STANDARDS. VACUUM-ASSISTED HAND POWER TOOLS SHALL BE USED FOR CAPTURE AND CONTAINMENT OF CONTAMINANTS. SAND BLASTING SHALL NOT BE PERMITTED OVER WATER.

REPAIR PROCEDURE:

1. MARK CONTROL LINES SUFFICIENT TO INDICATE PROPER ALIGNMENT FOR NEW RAIL AFTER EXISTING RAIL IS REMOVED.
2. ENGAGE JACKING SYSTEM TO REMOVE LOAD FROM 'TILT' BEARING (RAIL SECTION AND BASE PLATE) AND LIFT REAR END OF SPAN TO ALLOW TRANSVERSE SHEAR KEY TO CLEAR THE TOP OF THE EXISTING BEARING RAIL SECTION. RESTRAIN THE RAMP IN 3 (VERTICAL, LONGITUDINAL, AND TRANSVERSE) DIRECTIONS.
3. TAKING CARE TO PROTECT THE ANCHOR RODS AND MASONRY PLATE FROM GOUGING, CUT RAIL SECTION AWAY FROM BASE PLATE AND REMOVE IT THEN GRIND MASONRY PLATE SURFACE SMOOTH AND PREPARE SURFACE FOR WELDING.
4. FURNISH REPLACEMENT ASCE 85 CRANE RAIL SECTION FABRICATED AS SHOWN. FILLET WELD NEW RAIL SECTION TO EXISTING BASE PLATE.
5. PREPARE WELD AND STEEL SURFACES FOR FINISHING.
6. PAINT THE EXPOSED STEEL AND CONNECTION COMPONENTS IN THE REPAIR AREA IN ACCORDANCE WITH SECTION 442-12 OF THE STANDARD SPECIFICATIONS, USING PAINT SYSTEM 4 FROM NCDOT'S STRUCTURAL STEEL SHOP COATINGS PROGRAM DOCUMENT, WITH TOPCOAT COLOR MATCHED TO THE EXISTING TOPCOAT COLOR.
7. LOWER SPAN ONTO THE NEW BEARING ELEMENT USING THE JACKING SYSTEM AND REMOVE THE TEMPORARY SPAN RESTRAINTS

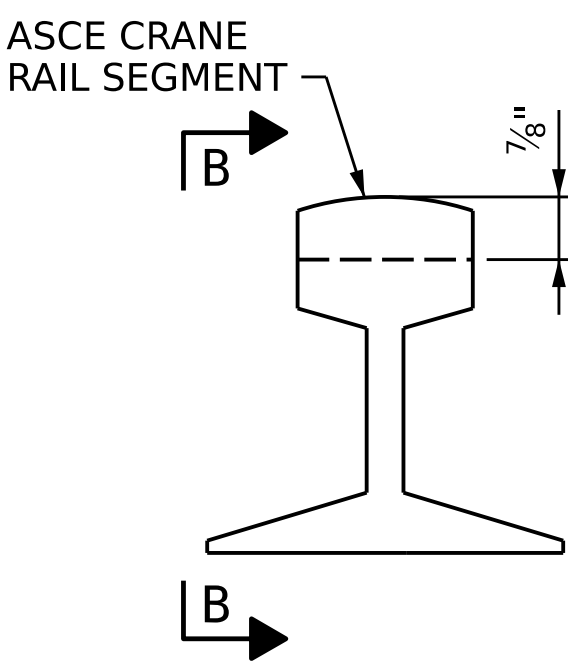


EXISTING CONDITION

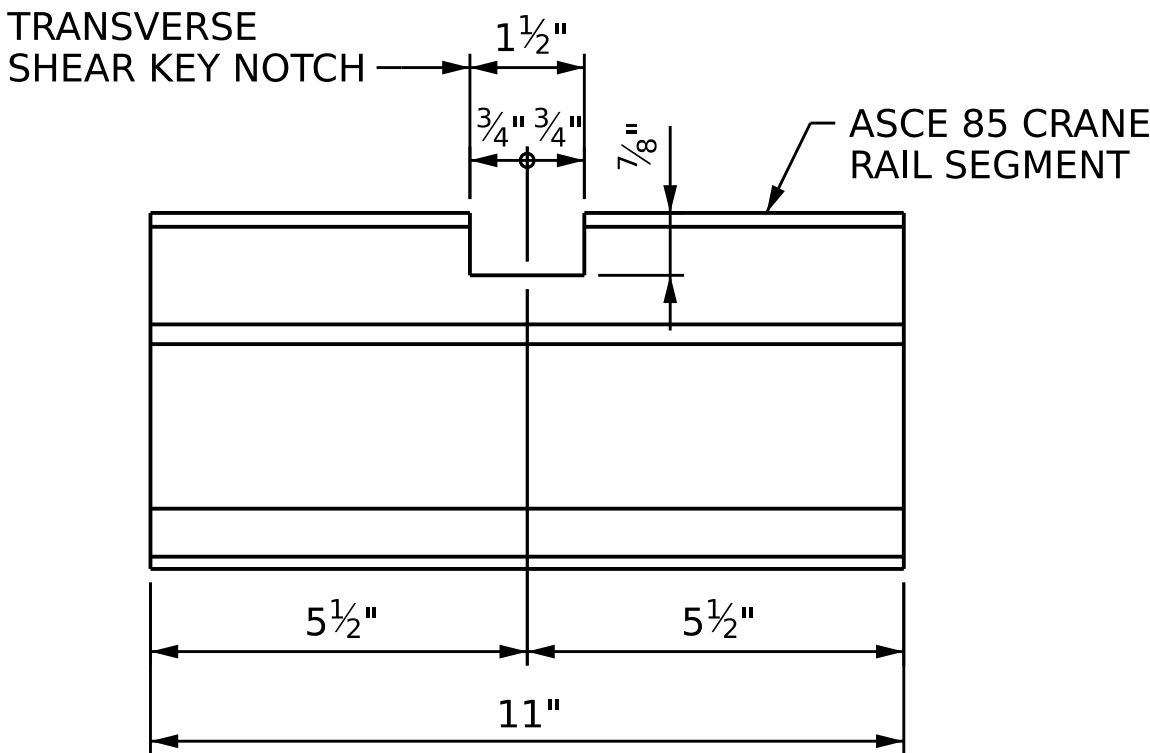


REPAIR CONDITION

GIRDER 1 BEARING REPAIR DETAILS



DETAIL A



VIEW B

TILT BEARING MEMBER FABRICATION

PROJECT NO. **15BPR.164**
BEAUFORT COUNTY
TERMINAL: **BAYVIEW**

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

STEEL BEARING
REPAIR DETAILS

REVISIONS						SHEET NO. S2-02
NO.	BY:	DATE:	NO.	BY:	DATE:	
1	--	--	3	--	--	TOTAL SHEETS
2	--	--	4	--	--	34



DAVID KNICKERBOCKER

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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DES CHK: D. KNICKERBOCKER DATE : 11/2025 CHK BY: D. KNICKERBOCKER DATE : 11/2025