



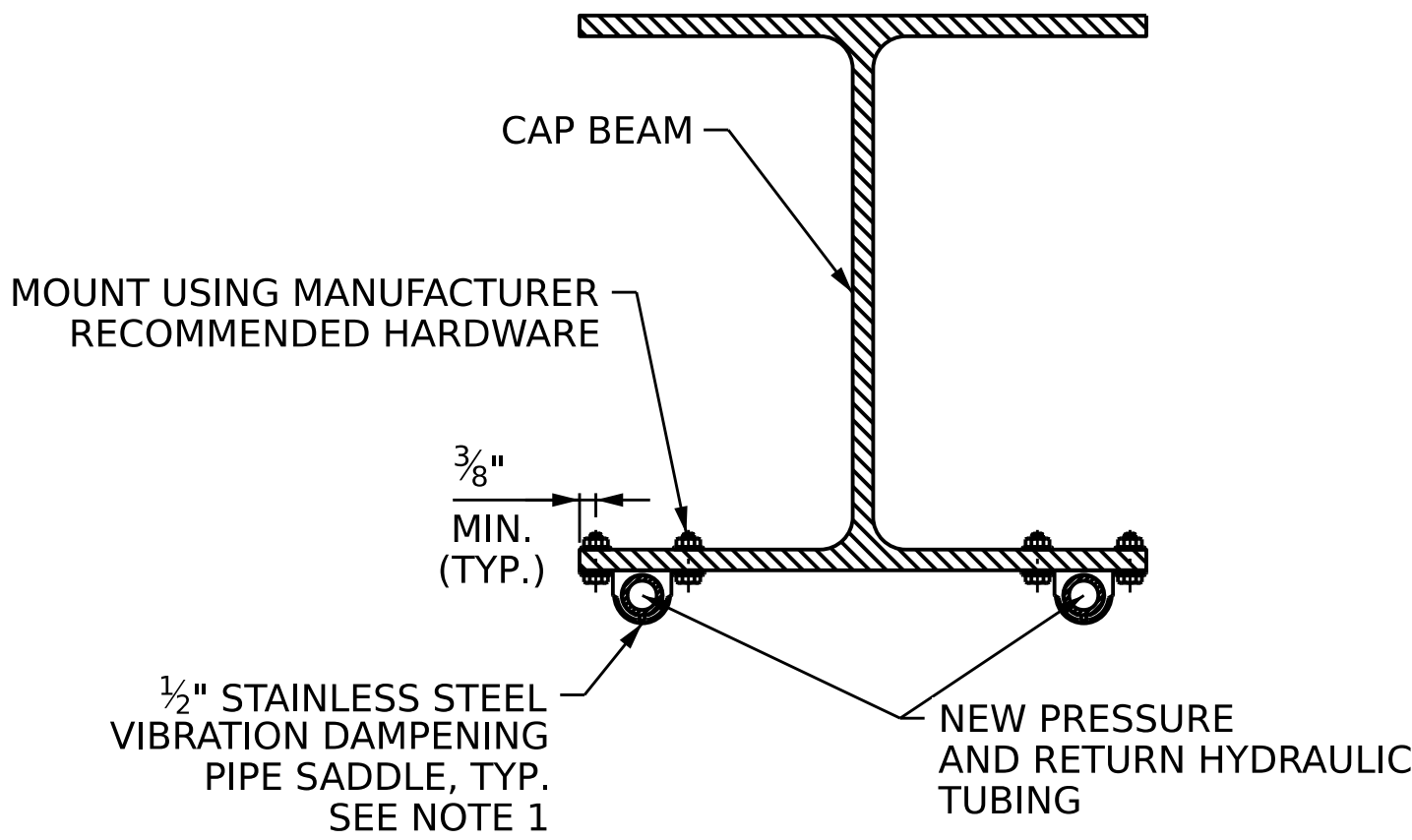
CORRODED HYDRAULIC FITTINGS



ERRANT GREASE LINE

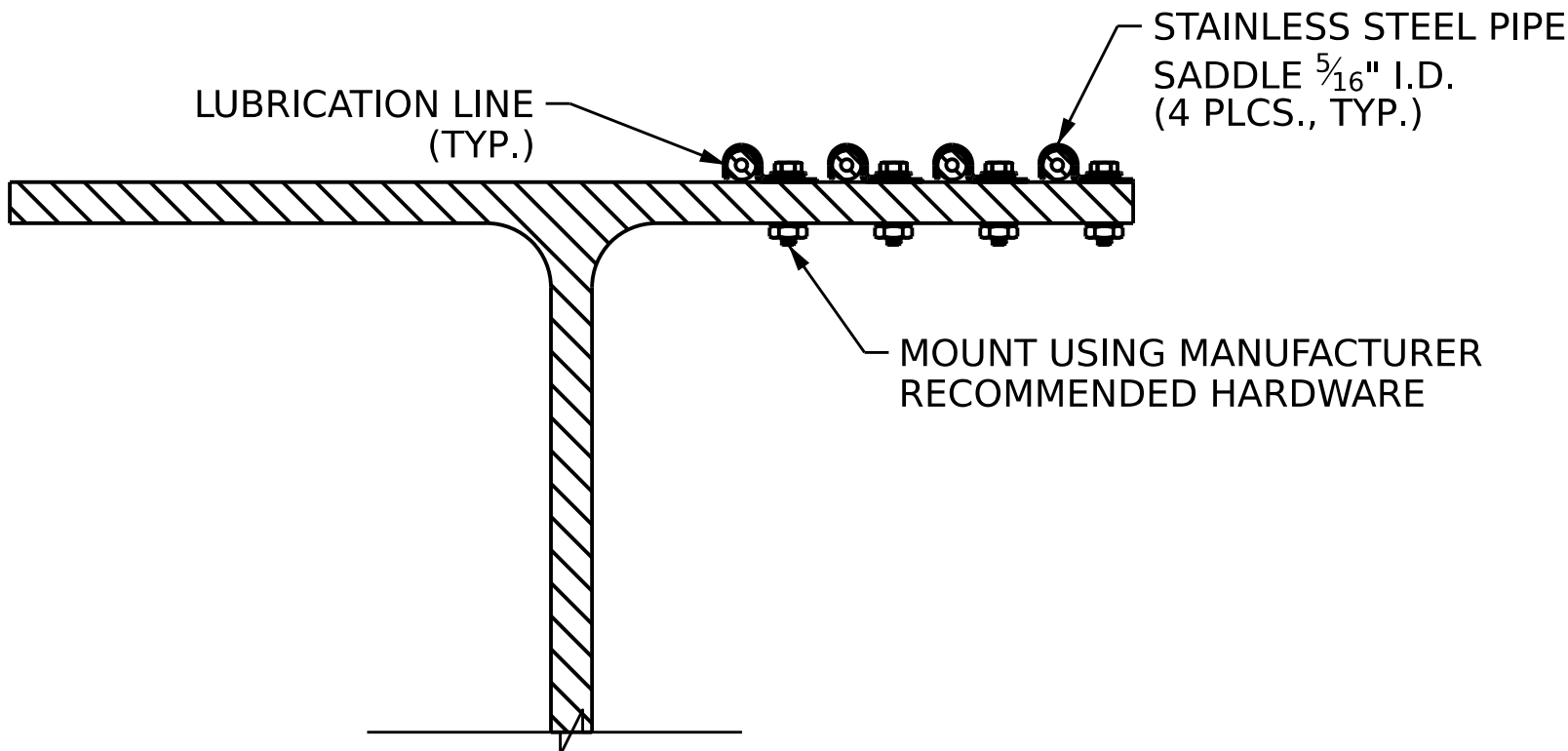


CORRODED TUBING SUPPORTS



TYPICAL HYDRAULIC TUBING SUPPORT DETAIL

HYDRAULIC TUBING LOCATIONS SHOWN ARE APPROXIMATE



TYPICAL LUBRICATION LINE SUPPORT DETAIL

LUBRICATION LINE LOCATIONS SHOWN ARE APPROXIMATE

NOTES

1. THE CONTRACTOR SHALL SUBMIT HYDRAULIC TUBING AND GREASE LINE SUPPORTS AND FITTINGS TO THE ENGINEER FOR REVIEW AND APPROVAL. SEE SPECIFICATIONS FOR REQUIREMENTS.
2. IMAGES PROVIDED SERVE AS VISUAL EXAMPLES AND SHOULD NOT BE CONSIDERED A COMPLETE CATALOG OF ALL REPAIR LOCATIONS.
3. WHERE HYDRAULIC TUBING SUPPORT MOUNTING INTERFERES WITH EXISTING BEAM GEOMETRY, SUPPORTS MAY BE STAGGERED TO ALLOW INSTALLATION CLEARANCE.

KEY NOTES

1. REPLACE ALL CORRODED HYDRAULIC FITTINGS.
2. REPLACE ALL HYDRAULIC TUBING SUPPORTS AND FASTENERS WITH SECTION LOSS BEYOND 20%. SUPPORT AT MAXIMUM EVERY 54".
3. REPLACE ALL HYDRAULIC TUBING. SEE SPECIFICATIONS FOR REQUIREMENTS.
4. SECURE ERRANT GREASE LINE IN CONTACT WITH THE EAST SIDE WIRE ROPE.

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

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

HYDRAULIC AND
LUBRICATION
REPAIR DETAILS

REVISIONS						SHEET NO. M1-02
NO.	BY:	DATE:	NO.	BY:	DATE:	
1	--	--	3	--	--	TOTAL SHEETS 34
2	--	--	4	--	--	



Stephen Grabowski
7/16/2026
DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

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N.C.B.E.L.S. License Number: F-0116

DES BY: C. MORRIS DATE : 11/2025 DWG BY: B. PETERSON DATE : 11/2025
DES CHK: S. GRABOWSKI DATE : 11/2025 CHK BY: S. GRABOWSKI DATE : 11/2025