

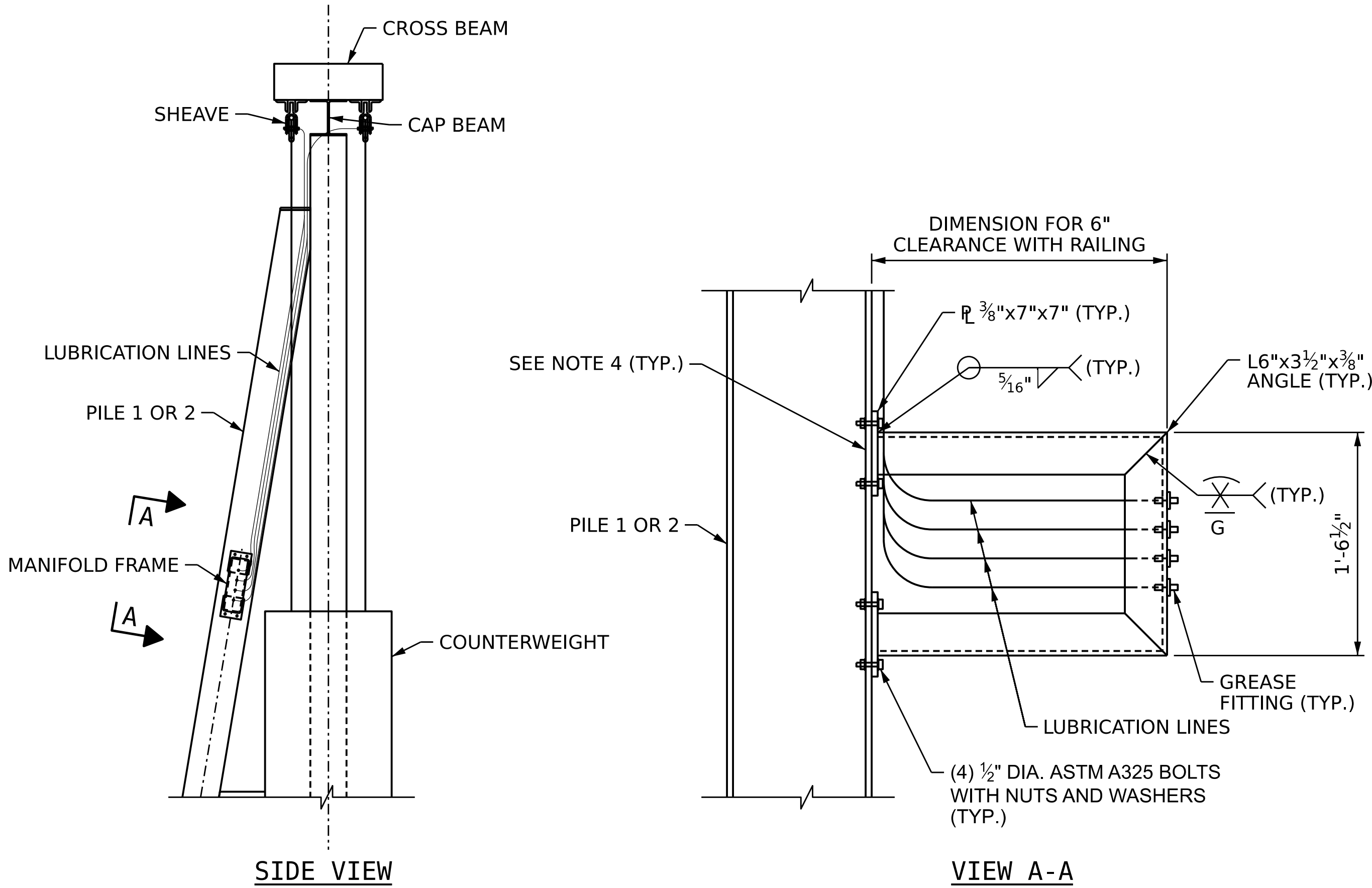


CORRODED HYDRAULIC FITTINGS



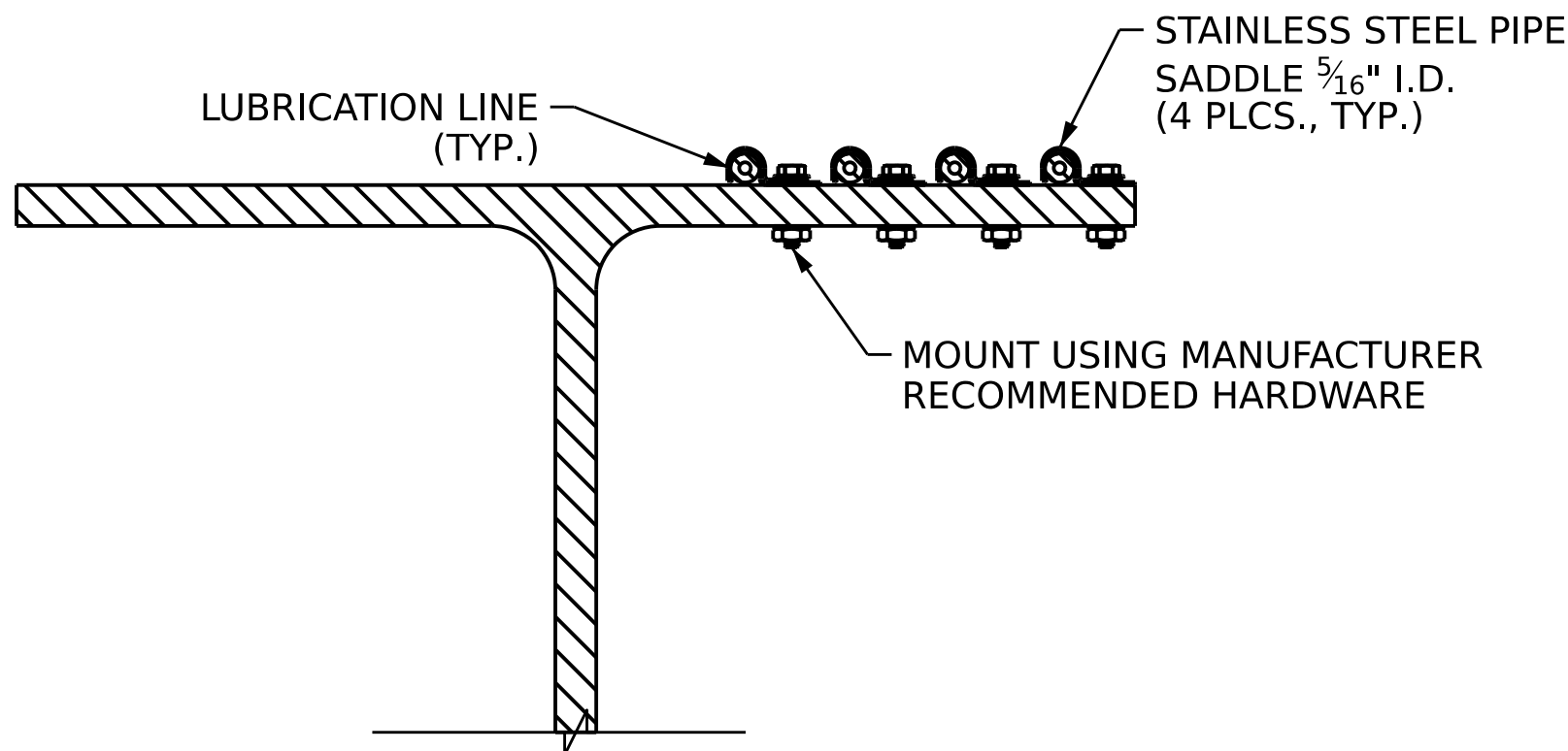
EXAMPLE LUBRICATION LINE SUPPORT MANIFOLD

IMAGE SHOWS LUBRICATION LINE MANIFOLD  
AT THE AURORA SITE (BRIDGE 060321)



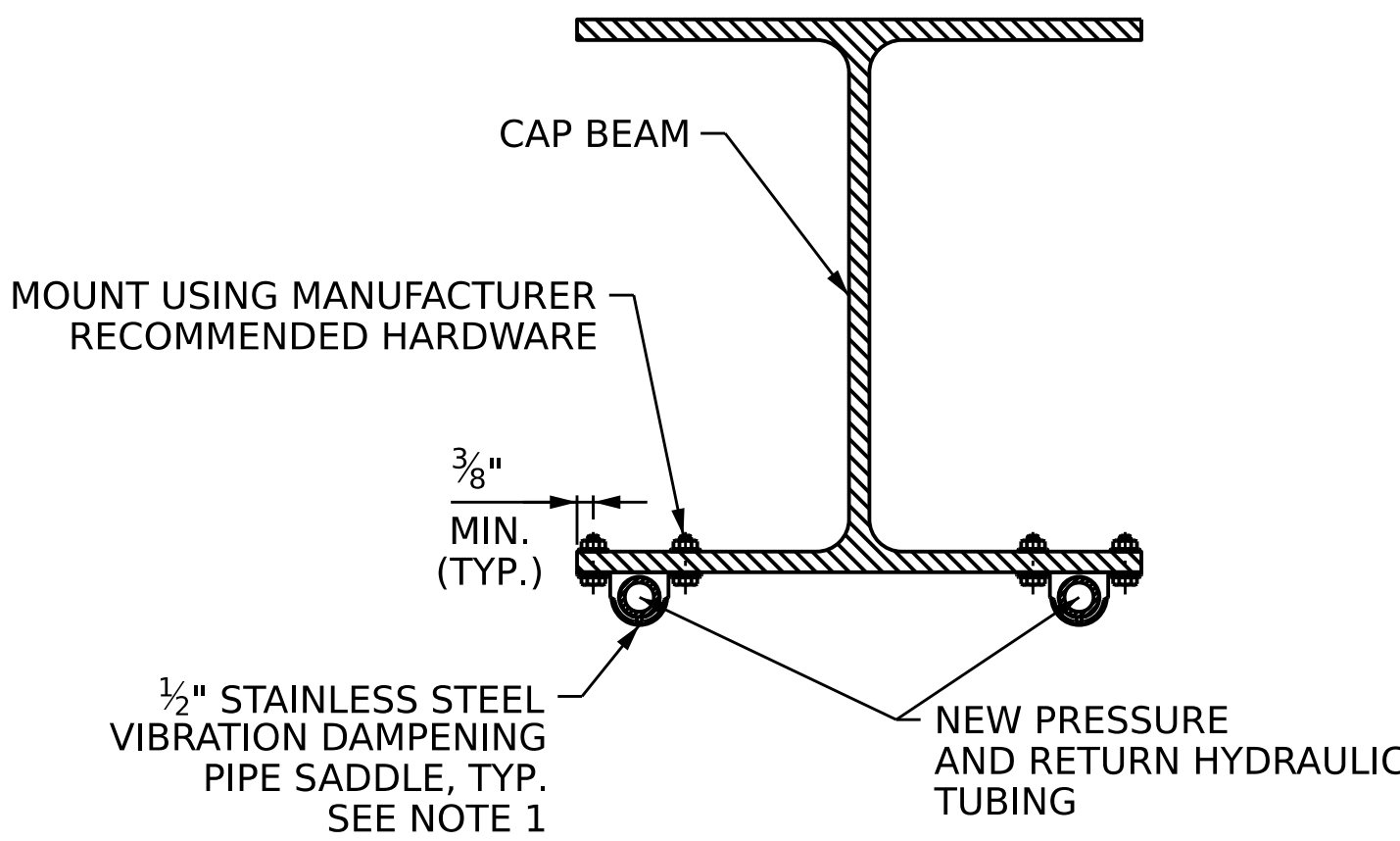
LUBRICATION LINE SUPPORT MANIFOLD DETAILS

ALL STEEL SHALL BE 316 STAINLESS STEEL  
(2) ASSEMBLIES REQUIRED



TYPICAL LUBRICATION LINE SUPPORT DETAIL

LUBRICATION LINE LOCATIONS SHOWN ARE APPROXIMATE



TYPICAL HYDRAULIC TUBING SUPPORT DETAIL

TUBING LOCATIONS SHOWN ARE APPROXIMATE

NOTES

1. THE CONTRACTOR SHALL SUBMIT HYDRAULIC TUBING AND LUBRICATION 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.
4. THE LOCATION OF THE EXISTING PILES WHERE THE NEW LUBRICATION MANIFOLD SUPPORT ARE TO BE ATTACHED SHALL BE CLEANED IN ACCORDANCE WITH SSPC-SP3 AND SHALL BE PRIME COATED IN ACCORDANCE WITH THE SPECIAL PROVISIONS PRIOR TO INSTALLATION OF THE MANIFOLD SUPPORT.

KEY NOTES

1. REPLACE ALL CORRODED HYDRAULIC FITTINGS.
2. REPLACE ALL HYDRAULIC TUBING SUPPORTS AND HARDWARE WITH SECTION LOSS BEYOND 20%. SUPPORT AT MAXIMUM EVERY 54".
3. REPLACE ALL HYDRAULIC TUBING. SEE SPECIFICATIONS FOR REQUIREMENTS.
4. INSTALL LUBRICATION LINE SUPPORT MANIFOLD. SEE DETAIL.

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

STATE OF NORTH CAROLINA  
DEPARTMENT OF TRANSPORTATION  
RALEIGH

HYDRAULIC  
AND LUBRICATION  
REPAIR DETAILS

| REVISIONS |     |       |     |     |       | SHEET NO.<br>M2-02 |
|-----------|-----|-------|-----|-----|-------|--------------------|
| NO.       | BY: | DATE: | NO. | BY: | DATE: |                    |
| 1         | --  | --    | 3   | --  | --    | TOTAL<br>SHEETS    |
| 2         | --  | --    | 4   | --  | --    | 34                 |



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