

NOTES:

ALL MATERIAL AND WORK SHOWN ON THIS DRAWING SHALL BE INCLUDED IN THE PAY ITEM STRUCTURAL STEEL FOR REPAIRS, SEE SPECIAL PROVISIONS.

BEVELED SHIM INSTALLATION PROCEDURE:

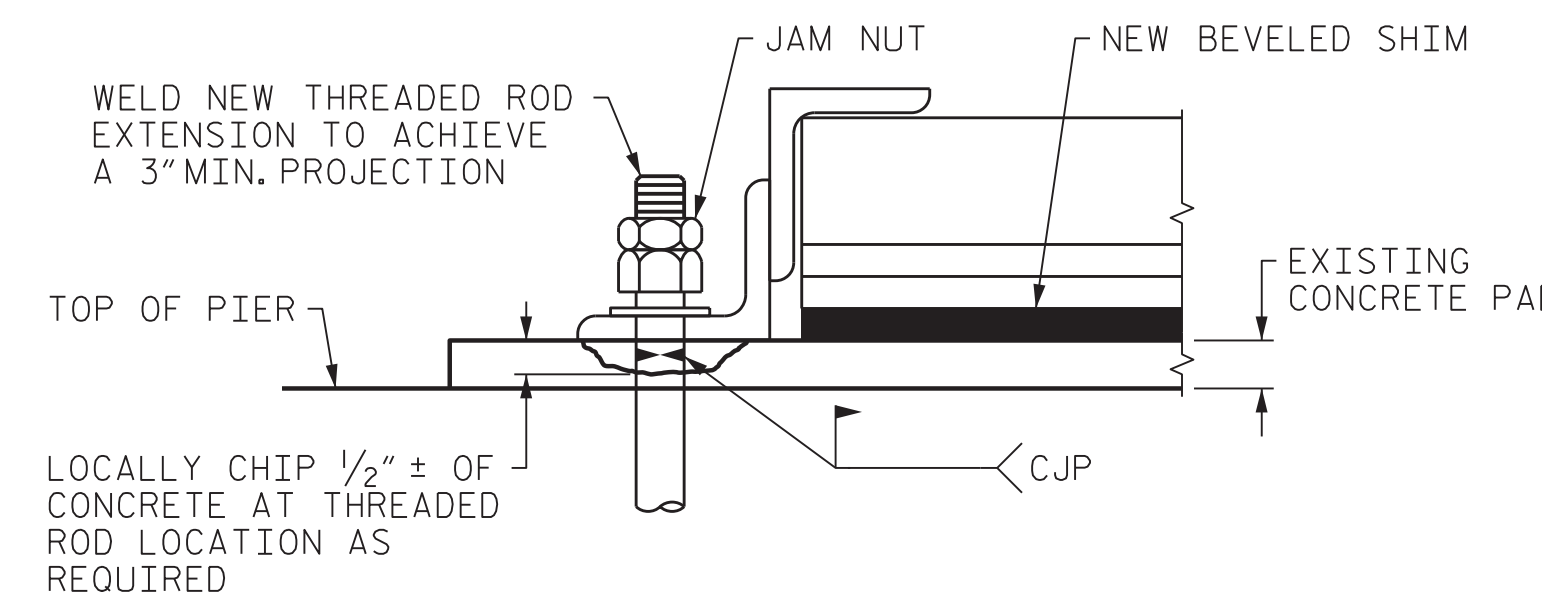
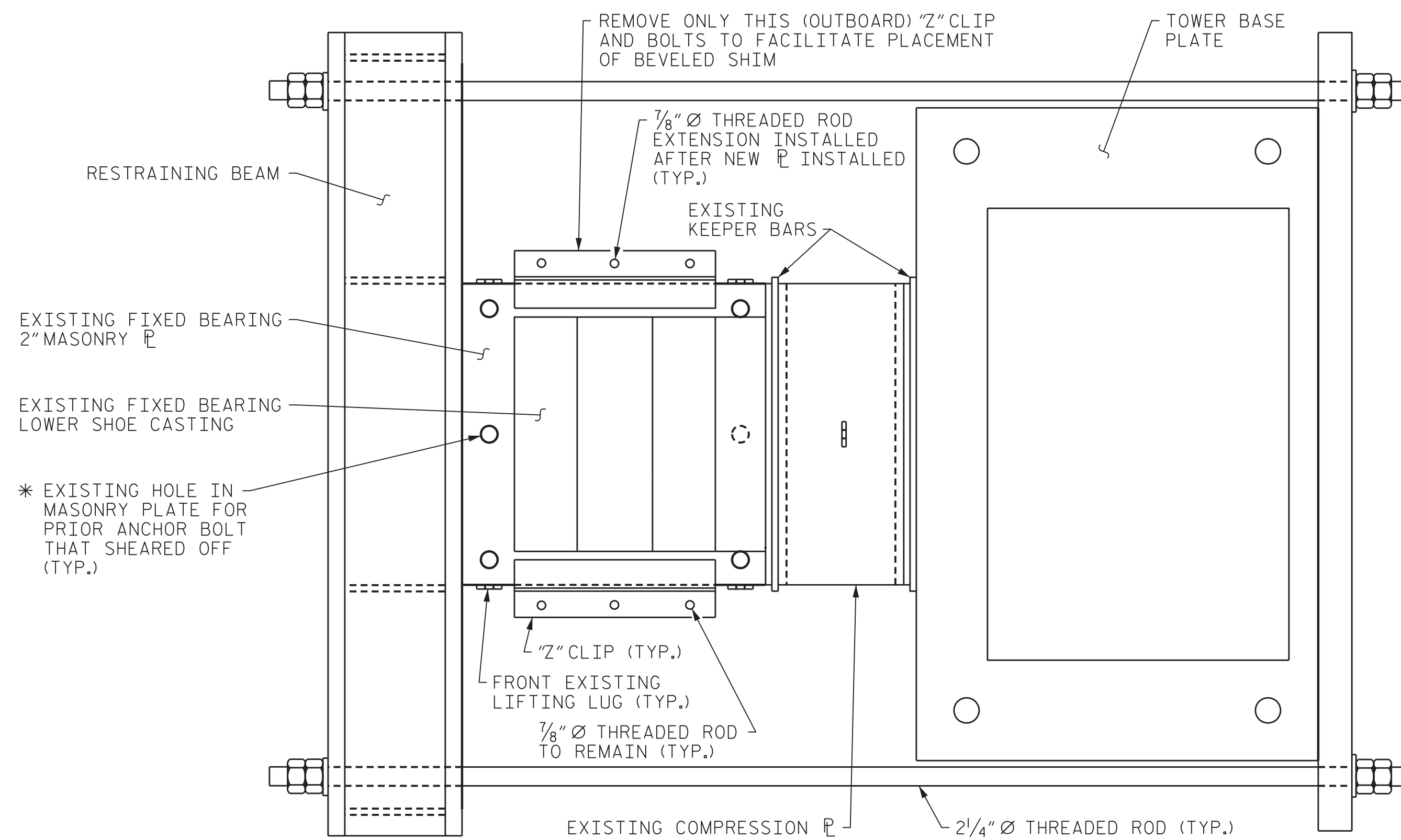
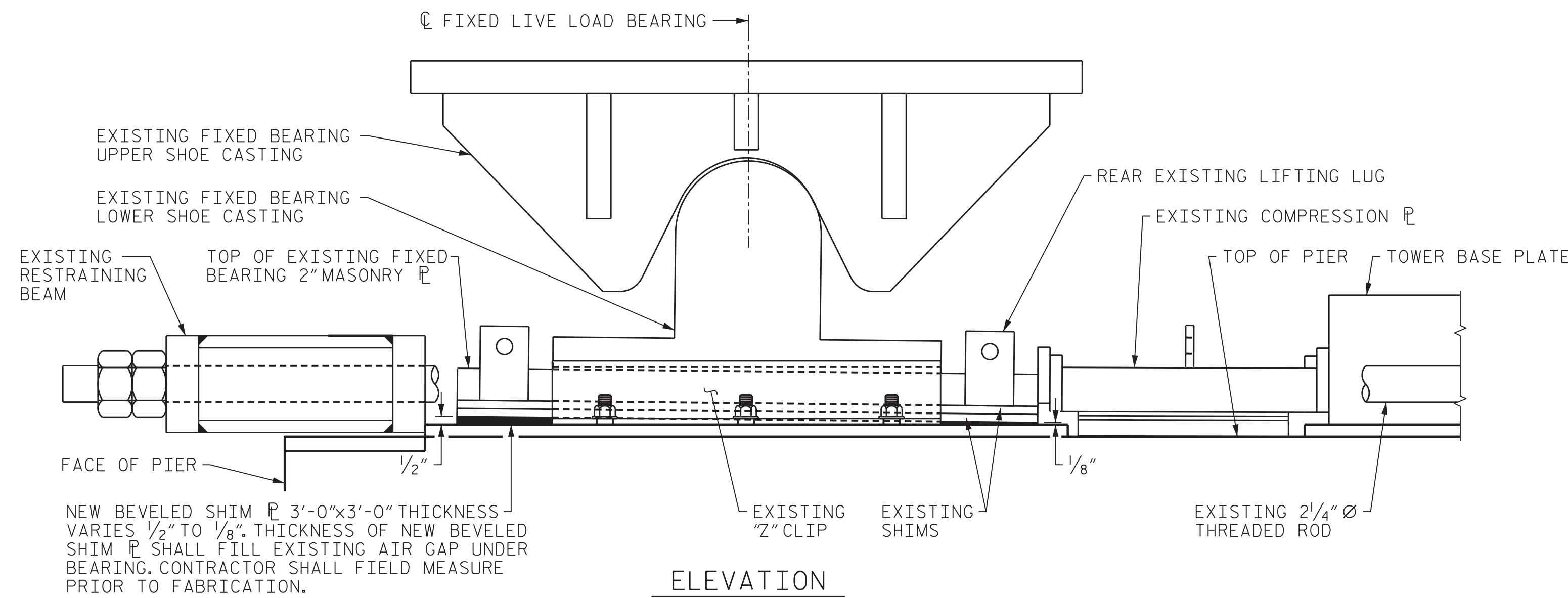
1. CUT OFF OUTBOARD Z-CLIP BOLTS FLUSH WITH TOP OF CONCRETE PAD UNDER Z-CLIP AND REMOVE Z-CLIP.
2. WHILE SUPERSTRUCTURE IS LIFTED OFF OF TOP OF BEARING, LIFT FRONT OF BEARING APPROXIMATELY 1/8" USING FRONT EXISTING LIFTING LUGS
3. INSTALL BEVELED SHIM UNDER EXISTING SHIM PLATES AND LOWER BEARING TO REST ON BEVELED SHIM.
4. PRIOR TO LOWERING SUPERSTRUCTURE BACK ONTO BEARING, TACK WELD NEW BEVELED SHIM TO EXISTING SHIM PLATE
5. REMOVE APPROXIMATELY 1/2" OF CONCRETE AROUND ANCHOR BOLTS AT OUTBOARD Z-CLIP AND WELD NEW ANCHOR BOLT EXTENSIONS TO THE EXISTING ANCHOR BOLTS USING A FULL PENETRATION WELD.
6. REINSTALL EXISTING OUTBOARD Z-CLIP ONTO ANCHOR BOLTS, TIGHTEN NUTS FINGER TIGHT AND THEN BACK THEM OFF 1/2 TURN AND PLACE JAM NUT.

MATERIAL:

STRUCTURAL STEEL: ASTM A709, GRADE 50, UNPAINTED.

THREADED ROD: ASTM F1554, GRADE 55.

WELDING: PROVIDE MATERIAL AND WORK IN ACCORDANCE WITH ANSI/AASHTO/AWS D1.5-2015 BRIDGE WELDING CODE.



"Z" CLIP DETAIL

PATCH CHIPPED AREA AROUND ANCHOR BOLT WITH MATERIAL TO BE SUBMITTED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER.

NORTHEAST FIXED LIVE LOAD BEARING

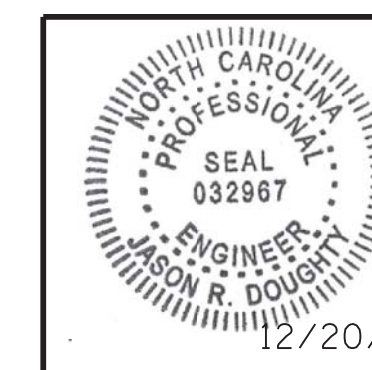
* IF EXISTING SHEARED ANCHOR BOLTS PREVENT THE INSTALLATION OF THE SINGLE BEVELED SHIM, THE CONTRACTOR MAY, AT NO ADDITIONAL COST TO THE DEPARTMENT, USE THREE BEVELED SHIM PLATES WHERE TWO OF THE PLATES ARE FABRICATED TO SLIDE AND FIT AROUND THE REMAINING PORTIONS OF THE ANCHOR BOLTS.

PROJECT NO. 15BPR.15
NEW HANOVER COUNTY
 STATION: _____

STATE OF NORTH CAROLINA
 DEPARTMENT OF TRANSPORTATION
 RALEIGH
 LIFT SPAN
FIXED LIVE LOAD BEARING RETROFIT



333 FAYETTEVILLE STREET, SUITE 505
 RALEIGH, NC 27601
 NC LICENSE NO. C-2979



DocuSigned by:
 Jason R Doughty
 5F73FA2DEA974E8...

| REVISIONS | | | | | | SHEET NO. |
|-----------|-----|-------|-----|-----|-------|--------------|
| NO. | BY: | DATE: | NO. | BY: | DATE: | TOTAL SHEETS |
| 1 | | | 3 | | | 5-29 |
| 2 | | | 4 | | | 66 |

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

12/21/2017 4:00:05 PM 368202_SML_BRG_640013.dgn

DESIGNED BY: B. LOFLIN DATE: DEC 2017
 DRAWN BY: K. WHITE DATE: DEC 2017
 CHECKED BY: J. DOUGHTY DATE: DEC 2017
 DESIGN ENGINEER OF RECORD: J. DOUGHTY DATE: DEC 2017