

GENERAL NOTES

- 1. EXISTING BRIDGE NO. 8113 WAS DESIGNED IN 1960 AND WIDENED IN 1979. ITS DECK WAS REPLACED IN 2011. CONTACT SAN JUAN COUNTY, NM FOR AS BUILT INFORMATION.
- 2. WORKMANSHIP AND MATERIALS SHALL CONFORM TO NEW MEXICO DEPARTMENT OF TRANSPORTATION'S (NMDOT) STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION 2019 EDITION (THE STANDARD SPECIFICATIONS) AND ALL APPLICABLE SUPPLEMENTAL SPECIFICATIONS AND SPECIAL PROVISIONS.
- 3. DETAILS SHOWN IN THIS PLAN SET ARE PROPOSED AS BRIDGE REPAIR MEASURES AND HAVE NO PURPOSE OF INCREASING THE STRUCTURAL CAPACITY OF ANY BRIDGE COMPONENT.
- 4. CONTRACTOR IS RESPONSIBLE FOR REVIEWING AS BUILT INFORMATION AND VISITING THE SITE TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.
- 5. CONTRACTOR SHALL COORDINATE ALL NECESSARY TRAFFIC CLOSURES WITH PROJECT MANAGER.
- 6. CONTRACTOR IS RESPONSIBLE FOR SHORING AND JACKING OPERATIONS OF BRIDGE STRUCTURE. ALL JACKING AND SHORING PLANS TO BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER IN NEW MEXICO AND SHALL BE SUBMITTED TO THE PROJECT MANAGE FOR REVIEW AND APPROVAL PRIOR TO COMMENCING WORK.
- 7. A SURVEY INCLUDING EXISTING TOP OF ABUTMENT AND PIER ELEVATIONS, AS WELL AS DIMENSIONS OF THE EXISTING STEEL BEARING DEVICES AND ANCHOR BOLTS SHALL BE INCLUDED IN THE BID. FINAL DIMENSIONS AND DETAILS OF THE PROPOSED BEARING ASSEMBLIES WILL BE BASED ON THE INFORMATION FROM THIS SURVEY.
- 8. CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING PROTECTION AGAINST FALLING DEBRIS, CONSTRUCTION MATERIAL, OR TOOLS INTO THE WATERWAY.
- 9. PAINT ON EXISTING STRUCTURAL STEEL ELEMENTS, INCLUDING BEARINGS, MIGHT CONTAIN LEAD. MINIMIZE PAINT DISTURBANCE DURING REMOVAL OPERATIONS. PROTECT WORKERS BY FOLLOWING OSHA 29 CFR 1926.62 (LEAD IN CONSTRUCTION STANDARD).

INDEX OF SHEET

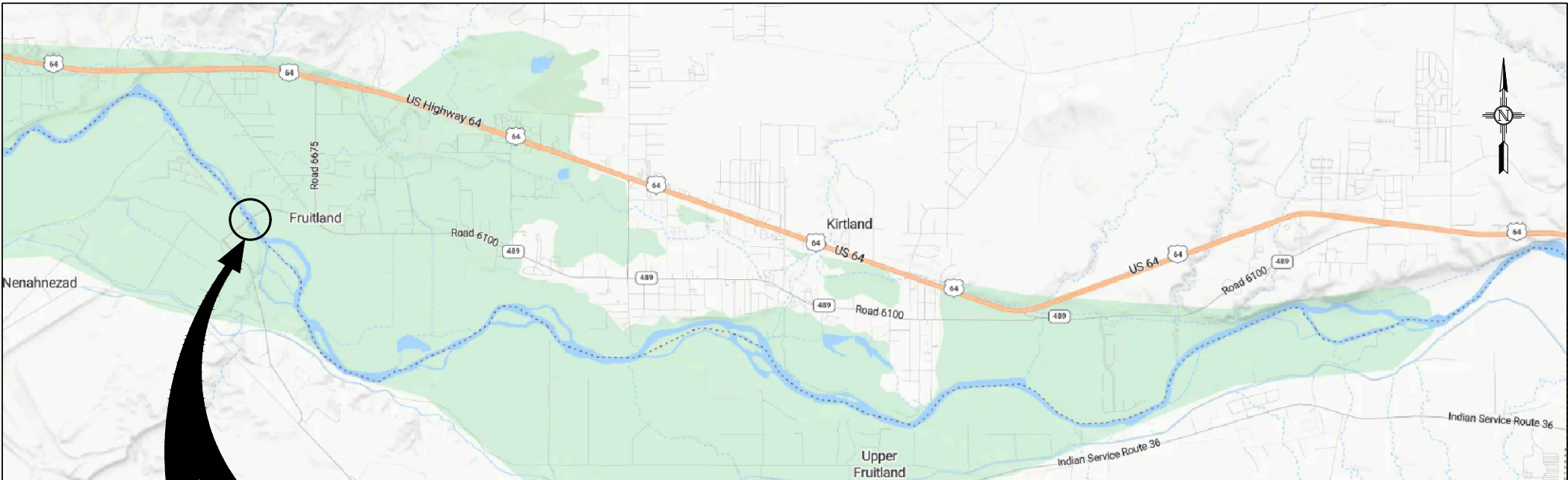
|           |                                        |
|-----------|----------------------------------------|
| SHEET 5-1 | GENERAL NOTES AND ESTIMATED QUANTITIES |
| SHEET 5-2 | SCOPE LAYOUT                           |
| SHEET 5-3 | ABUTMENT BEARINGS LAYOUT AND DETAILS   |
| SHEET 5-4 | PIER BEARINGS LAYOUT AND DETAILS       |

ESTIMATED QUANTITIES

| ITEM   | DESCRIPTION                             | UNIT | LOCATION                                          | QUANTITY |
|--------|-----------------------------------------|------|---------------------------------------------------|----------|
| 529000 | PIER AND ABUTMENT BEARING MODIFICATIONS | L.S. | PIERS AND ABUTMENTS                               | 1        |
| 533000 | REPAIR OF CONCRETE STRUCTURES           | S.Y. | ABUTMENT 1 (WEST)                                 | 25       |
| 533000 | REPAIR OF CONCRETE STRUCTURES           | S.Y. | ABUTMENT 2 (EAST)                                 | 25       |
| 533000 | REPAIR OF CONCRETE STRUCTURES           | S.Y. | PIER 1 (WEST)                                     | 80       |
| 533000 | REPAIR OF CONCRETE STRUCTURES           | S.Y. | PIER 2 (CENTER)                                   | 40       |
| 533000 | REPAIR OF CONCRETE STRUCTURES           | S.Y. | PIER 3 (EAST)                                     | 40       |
| 534000 | EPOXY INJECTION TYPE I                  | GAL. | INJECT CRACKS ON ABUTMENT CAPS                    | 6        |
| 534000 | EPOXY INJECTION TYPE I                  | GAL. | INJECT CRACKS ON PIERS                            | 9        |
| 541100 | STRUCTURAL STEEL FOR STEEL BRIDGES      | LBS. | NEW BEARING DEVICES                               | 6484     |
| 546000 | RECOATING STRUCTURES                    | L.S. | STEEL BEARINGS, GIRDERS AND DIAPHRAGMS NEAR PIERS | 1        |
| 560000 | ELASTOMERIC BEARING PADS                | EACH | PIERS AND ABUTMENTS                               | 20       |
| 614006 | PIPE CASING 6"                          | L.F. | BROKEN DRAIN PIPE ABOVE PIER 1                    | 10       |
| 602000 | RIPRAP CLASS A                          | C.Y. | AROUND ABUTMENTS AND WINGWALLS                    | 20       |

ITEMS SHOWN IN ESTIMATED QUANTITIES TABLE PERTAIN ONLY TO THE PROPOSED WORK ON THE BRIDGE. CONTRACTOR SHALL INCLUDE IN THEIR BIDS ALL REQUIRED ADDITIONAL ITEMS

QUANTITIES SHOWN ARE AN ESTIMATION BASED ON THE CONDITION OF THE STRUCTURE AS OF MARCH 7TH, 2024. SEE GENERAL NOTE 4.



BRIDGE 8113

VICINITY MAP

GEOMATINC.

PROJECT #: 234-4470

915 MALTA AVE. FARMINGTON, NM 87401

(505) 327-7928

BRIDGE 8113

BRIDGE ASSESSMENT

PHASE 3

BRIDGE

REHABILITATION

GENERAL NOTES AND

ESTIMATED QUANTITIES

Drawn By: ARG

Date: 01/07/2025

Approved: FOQ/CO

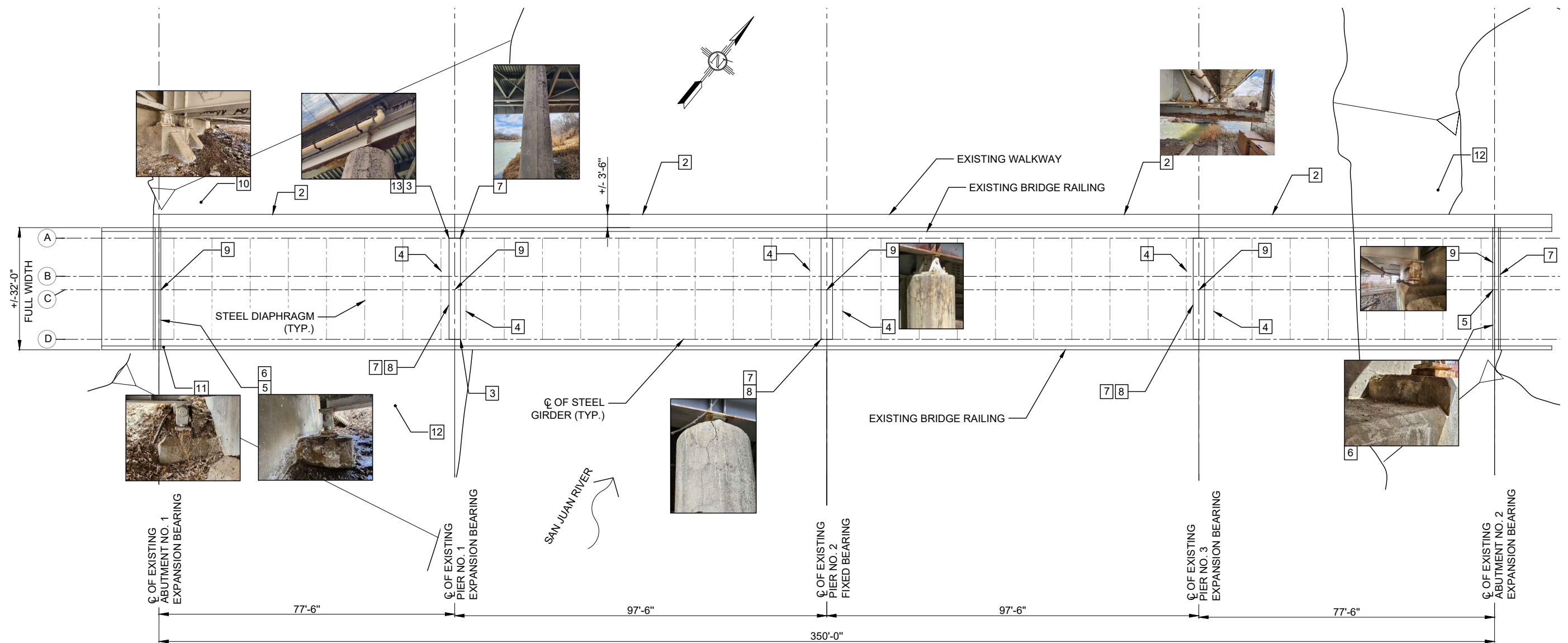
Date: 01/07/2025

Scale: AS NOTED

Sheet:

01"2"

5-1



## KEY NOTES

1. NOT USED.
2. RECOAT ALL RUSTED WALKWAY STEEL FRAMING PER SECTION 546 OF THE NMDOT STANDARD SPECIFICATIONS.
3. RECOAT STEEL GIRDERS NEAR WESTERNMOST PIER PER SECTION 546 OF THE NMDOT STANDARD SPECIFICATIONS.
4. RECOAT STEEL DIAPHRAGMS NEAR WESTERNMOST PIER PER SECTIONS 546 OF THE NMDOT STANDARD SPECIFICATIONS.
5. REPAIR UNSOUND CONCRETE AT ABUTMENT CAPS PER SECTION 533 OF THE NMDOT STANDARD SPECIFICATIONS AT LOCATIONS MARKED BY CONTRACTOR AND APPROVED BY THE PROJECT MANAGER. EXTENT OF REPAIR MIGHT VARY DEPENDING ON LOCATION.
6. EPOXY-INJECT CRACKS AT ABUTMENT CAPS PER SECTION 534 OF THE NMDOT STANDARD SPECIFICATIONS AT LOCATIONS MARKED BY CONTRACTOR AND APPROVED BY THE PROJECT MANAGER
7. REPAIR UNSOUND CONCRETE AT PIERS PER SECTION 533 OF THE NMDOT STANDARD SPECIFICATIONS AT LOCATIONS MARKED BY CONTRACTOR AND APPROVED BY THE PROJECT MANAGER. EXTENT OF REPAIR MIGHT VARY DEPENDING ON LOCATION.
8. EPOXY-INJECT CRACKS AT PIERS PER SECTION 534 OF THE NMDOT STANDARD SPECIFICATIONS AT LOCATIONS MARKED BY CONTRACTOR AND APPROVED BY THE PROJECT MANAGER.
9. REPLACE EXISTING STEEL BEARINGS WITH ELASTOMERIC BEARING PADS PER DETAILS IN THIS PLAN SET. INSTALL NEW BEARING PEDESTALS PER DETAILS IN THIS PLAN SET.
10. STOP FLOW OF WATER THROUGH WEST EMBANKMENT. RESHAPE EMBANKMENT AS NEEDED. SEE SHEET NOTE 1.
11. REMOVE DIRT AND DEBRIS ACCUMULATED ON TOP OF PIER CAP AT WEST ABUTMENT. SEE SHEET NOTE 1.
12. REHABILITATE RIPRAP AS NEEDED.
13. FIX BROKEN DRAIN PIPE AT PIER NO. 1. THIS WORK WILL BE PAID FOR UNDER ITEM 614006 - PIPE CASING 6".

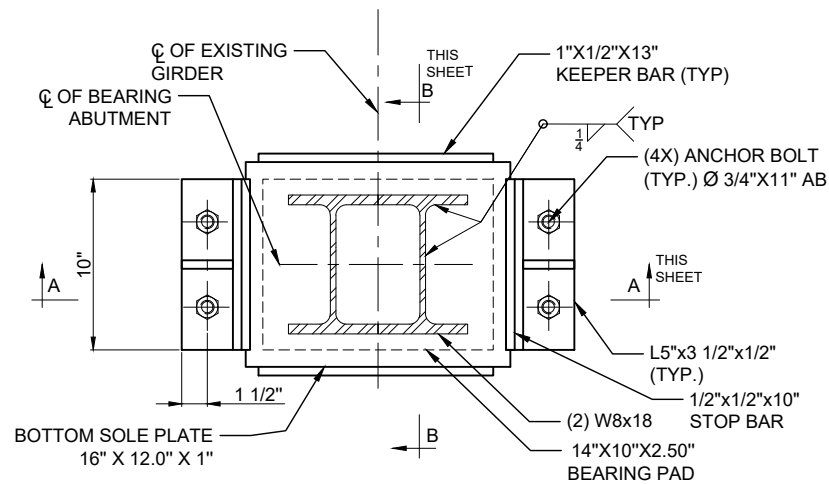
## SHEET NOTES:

1. COST OF DIRT AND DEBRIS REMOVAL FROM ABUTMENT 2, STOPPAGE OF WATER FLOW, AND RESHAPING OF ABUTMENT 2 EMBANKMENT SHALL BE INCLUDED IN THE UNIT PRICE FOR BID ITEM 602000 RIPRAP CLASS A

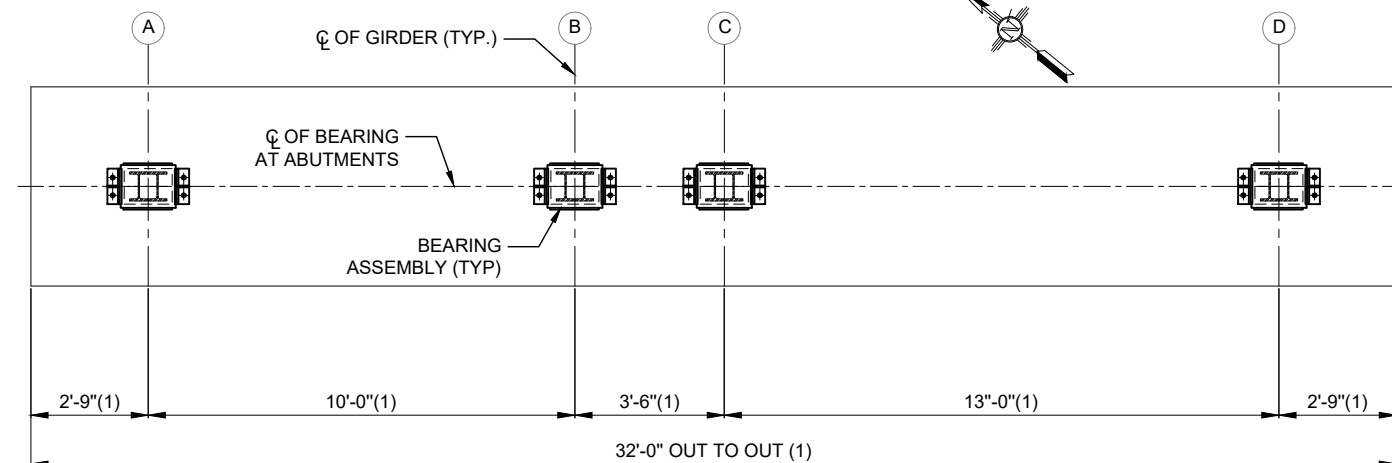
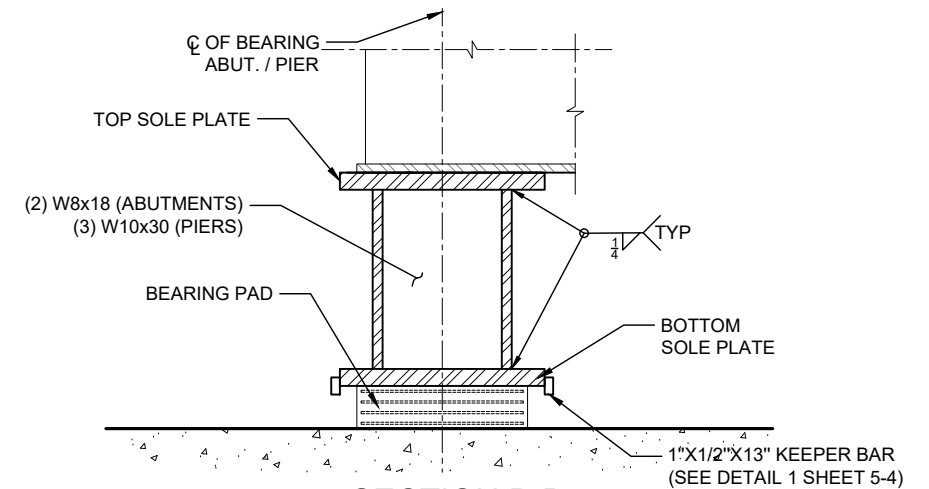
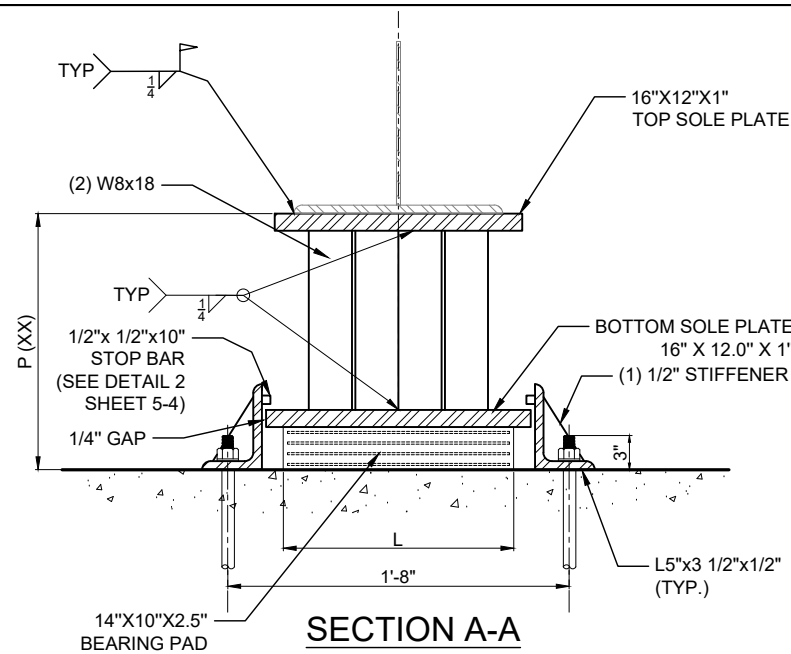
**GEOMAT INC.** PROJECT #: 234-4470  
915 MALTA AVE. FARMINGTON, NM 87401 (505) 327-7928

**BRIDGE 8113 BRIDGE ASSESSMENT  
PHASE 3  
BRIDGE  
REHABILITATION  
SCOPE LAYOUT**

Drawn By: ARG Date: 01/07/2025  
Approved: FOQ/CO Date: 01/07/2025  
Scale: AS NOTED Sheet: **5-2**



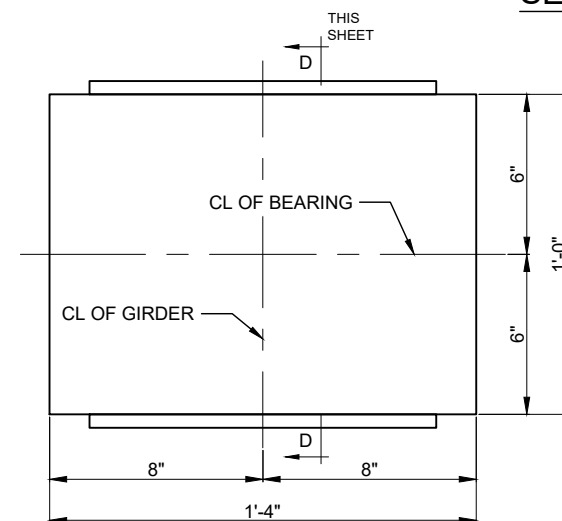
**BEARING ASSEMBLY - ABUTMENTS**



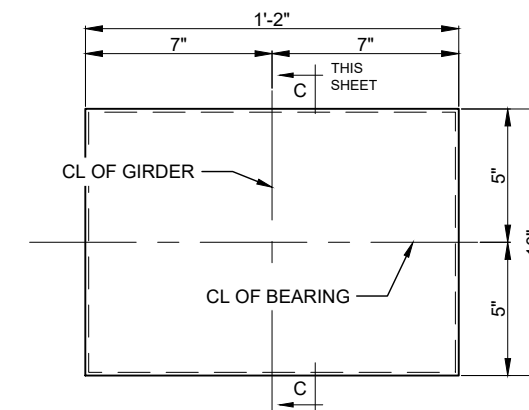
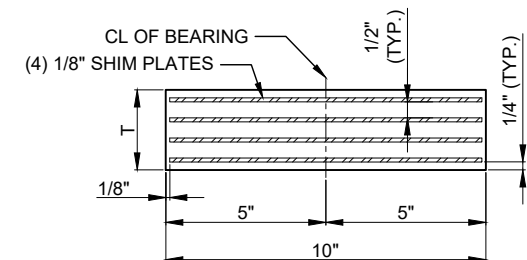
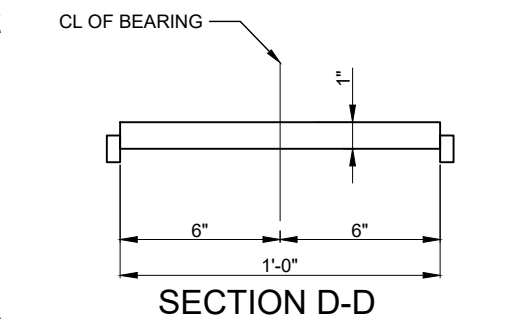
**LOCATION PLAN OF ABUTMENT BEARING ASSEMBLIES**

**SHEET NOTES**

1. VERIFY DIMENSIONS IN THE FIELD.
2. SEE AS BUILT DRAWINGS FOR DETAILS



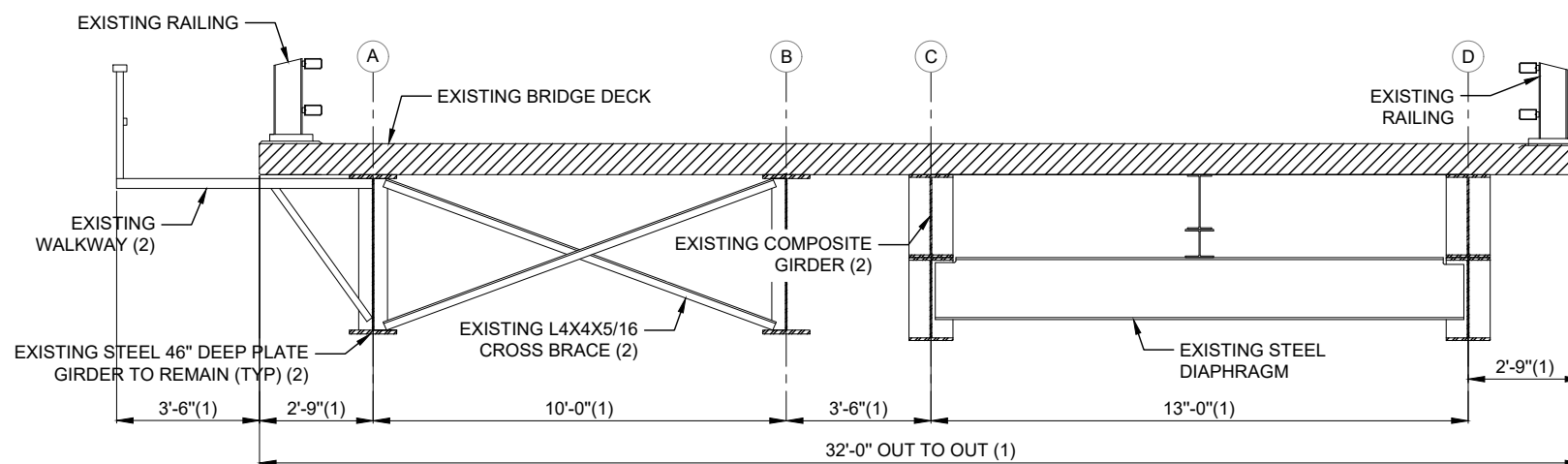
**SOLE PLATES**



**ELASTOMERIC BEARING PADS**

| ELASTOMERIC BEARING PAD SCHEDULE |        |       |                       |      |       |
|----------------------------------|--------|-------|-----------------------|------|-------|
| LOCATIONS                        | Tf (X) | T     | NUMBER OF SHIM PLATES | DL   | LL    |
| ABUTMENTS                        | 2.36"  | 2.50" | 4                     | 47 K | 113 K |

(X) Tf = FINAL THICKNESS AFTER DL AND CREEP DEFLECTIONS (INCLUDES SHIM PLATES)  
 (XX) P = FIELD MEASUREMENTS TO BE CONFIRMED PRIOR TO FABRICATION



**TYPICAL BRIDGE CROSS SECTION (FOR REFERENCE ONLY)**

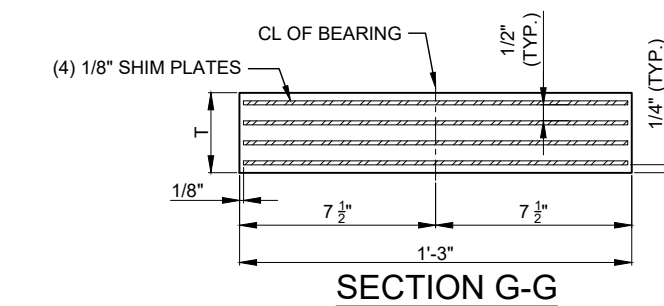
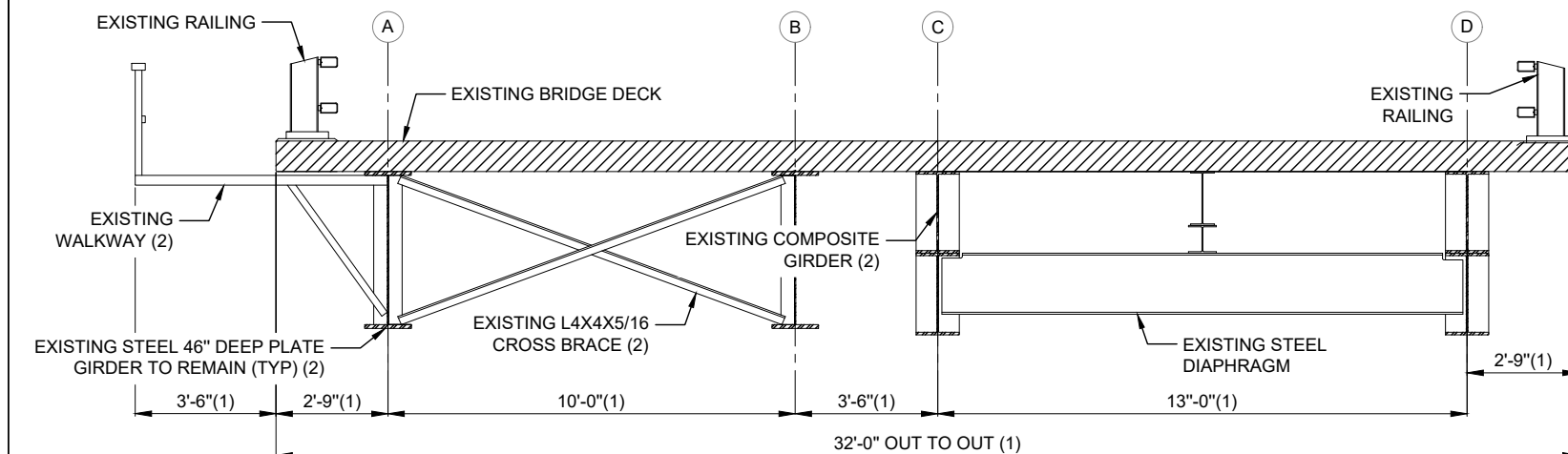
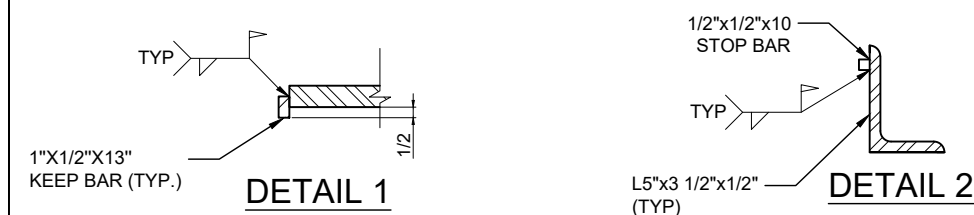
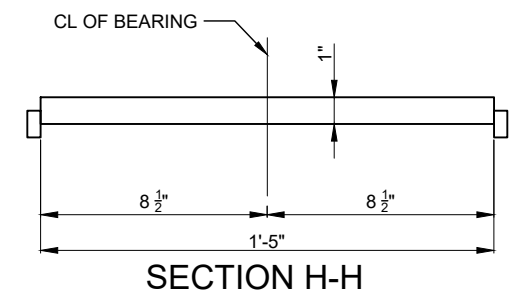
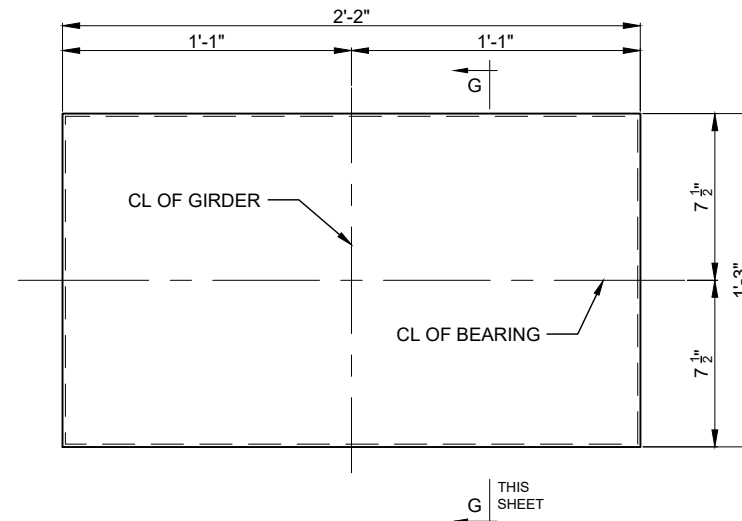
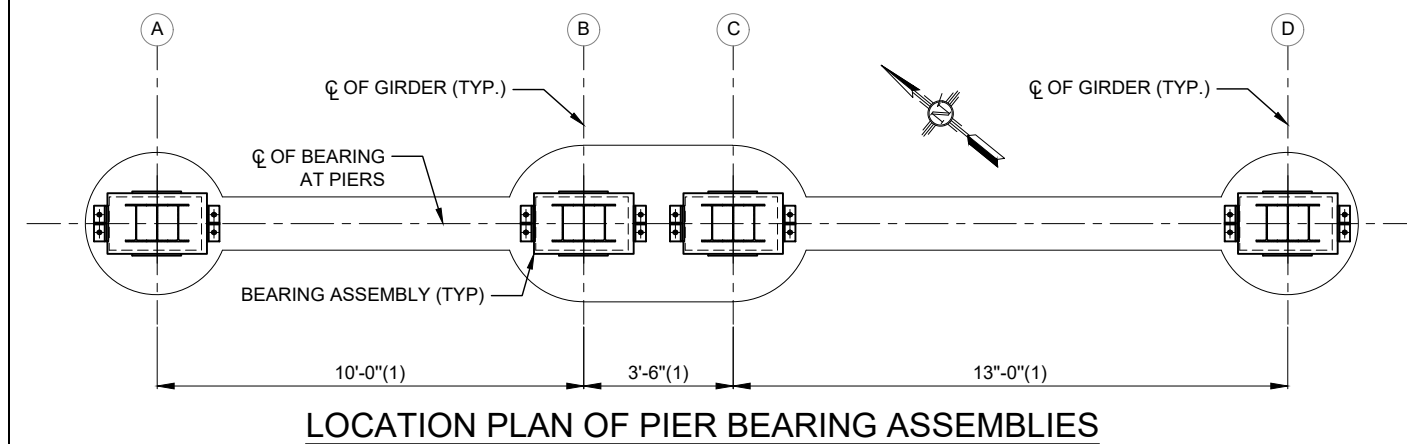
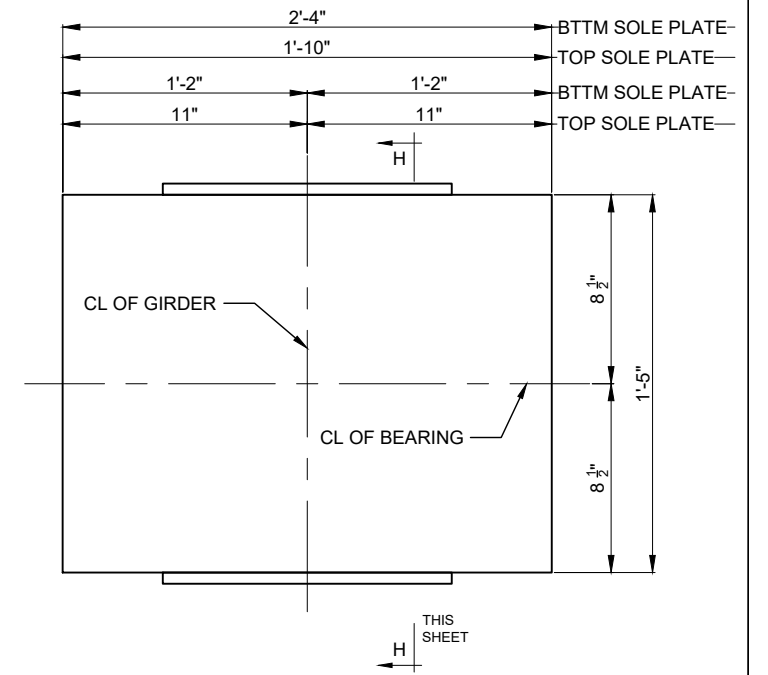
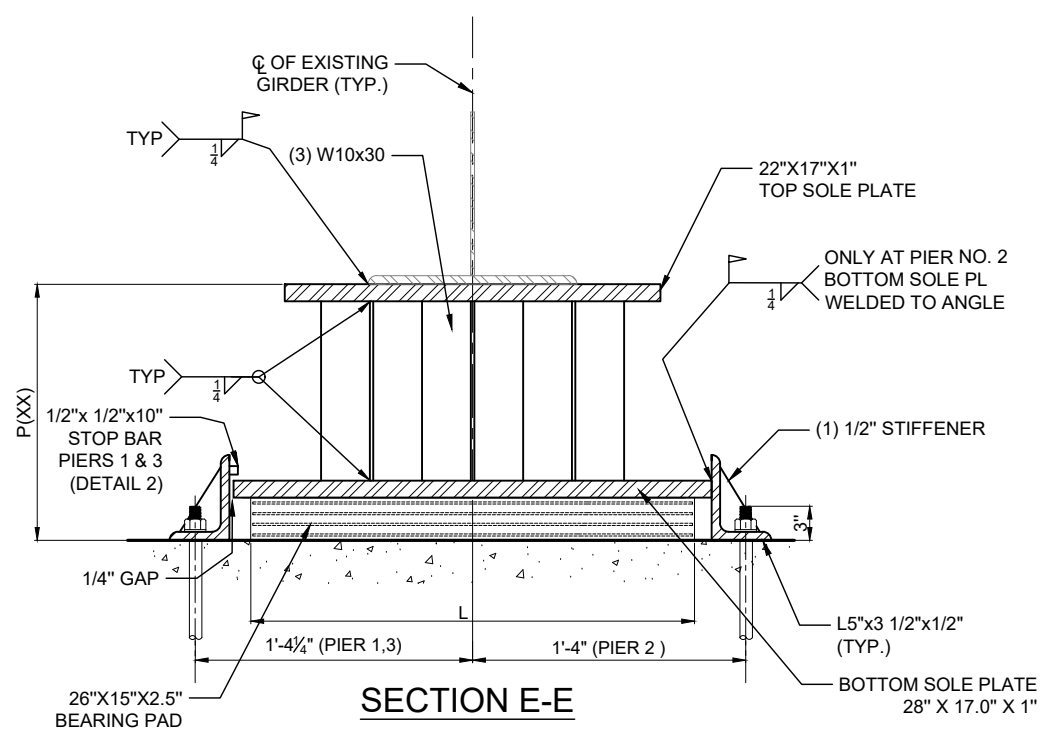
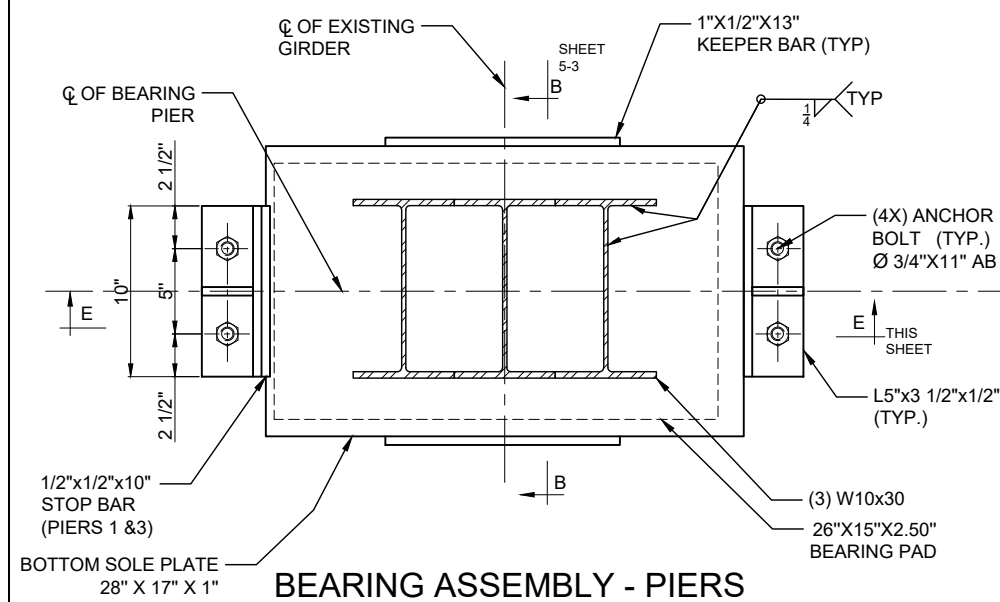
GEOMAT INC. PROJECT #: 234-4470  
 915 MALTA AVE. FARMINGTON, NM 87401 (505) 327-7928



BRIDGE 8113 BRIDGE ASSESSMENT  
 PHASE 3  
 BRIDGE  
 REHABILITATION  
 ABUTMENT BEARINGS  
 LAYOUT AND DETAILS

Drawn By: ARG Date: 01/07/2025  
 Approved: FOQ/CO Date: 01/07/2025

Scale: AS NOTED Sheet: 5-3



| ELASTOMERIC BEARING PAD SCHEDULE |        |       |                       |       |       |
|----------------------------------|--------|-------|-----------------------|-------|-------|
| LOCATIONS                        | Tf (X) | T     | NUMBER OF SHIM PLATES | DL    | LL    |
| PIERS                            | 2.38"  | 2.50" | 4                     | 159 K | 327 K |

(X) Tf = FINAL THICKNESS AFTER DL AND CREEP DEFLECTIONS (INCLUDES SHIM PLATES)  
 (XX) P = FIELD MEASUREMENTS TO BE CONFIRMED PRIOR TO FABRICATION

GEOMAT INC. PROJECT #: 234-4470  
 915 MALTA AVE. FARMINGTON, NM 87401 (505) 327-7928

BRIDGE 8113 BRIDGE ASSESSMENT  
 PHASE 3  
 BRIDGE  
 REHABILITATION  
 PIER BEARINGS  
 LAYOUT AND DETAILS

Drawn By: ARG Date: 01/07/2025  
 Approved: FOQ/CO Date: 01/07/2025  
 Scale: AS NOTED Sheet: 5-4