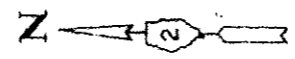


B.M. RR Spike in PP opposite  
Sta. 56+67.4, 250' right  
E1 577.19



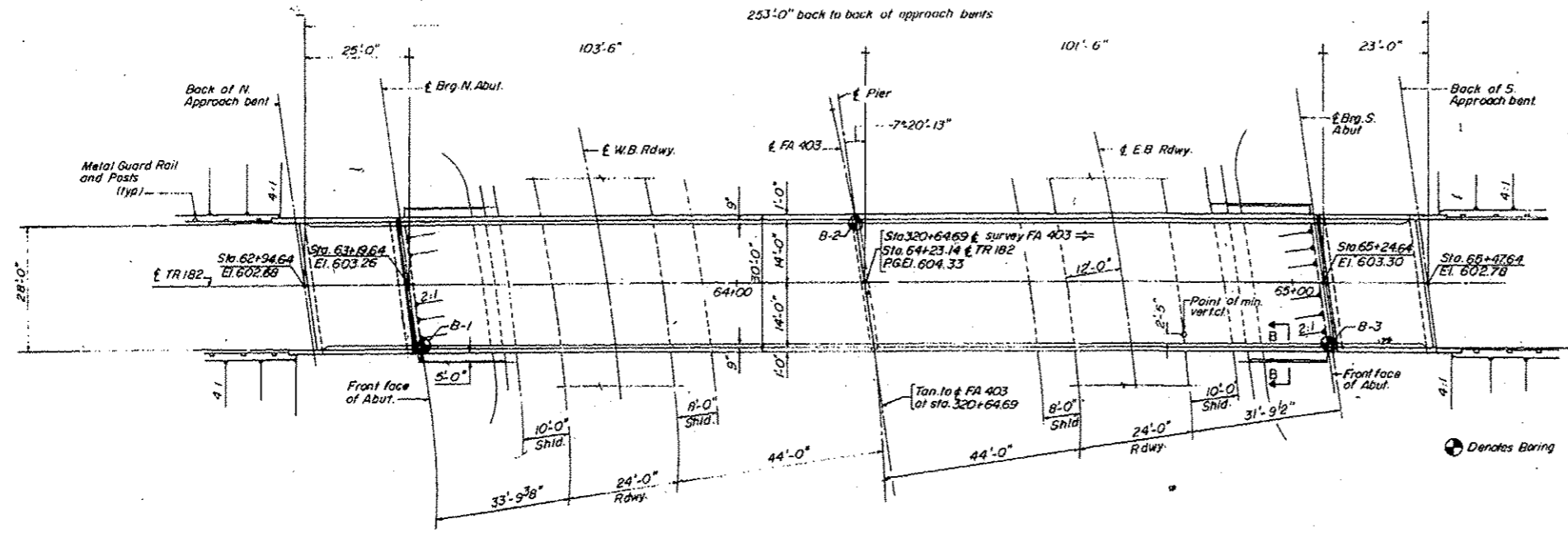
**CURVE DATA**

PI Sta. 317+67.26  
 $\Delta = 33^\circ 44' 23''$   
 $D = 1.30'$   
 $R = 3819.72'$   
 $T = 1150.32'$   
 $L = 2249.31'$   
 $E = 171.77'$   
 $e = 0.052 \%$

|             |         |             |              |           |           |
|-------------|---------|-------------|--------------|-----------|-----------|
| PROJECT NO. | SECTION | SUBJECT     | TOTAL SHEETS | SHEET NO. | SHEET NO. |
| 403         | 161     | ROCK ISLAND | 545          | 230       | 15 SHEETS |

**GENERAL NOTES:**

- All Reinforcement bars shall be lapped 24 diameters unless otherwise shown.
- Field connections shall be bolted using high strength bolts. Bolts  $3/4"$   $\phi$ , open holes  $1/16"$   $\phi$ , unless otherwise noted.
- The main load carrying member components subject to the Supplemental Requirements for Notch Toughness are the flanges, webs, and splice plates of the steel girders or wide flange beams.
- The basic lead silica chromate paint system shall be used for shop and field painting of structural steel.
- Field welding of construction accessories will not be permitted to the bottom of flange of beams or girders nor to the top flange for a distance equal to one-fourth the span length each way from the pier supports. Field welding in other areas will be permitted only when approved by the engineer.
- Anchor bolts shall be set before riveting or bolting cross frames over supports.
- Slope wall shall be reinforced with welded wire fabric 6"x6" Mesh weighing 58# per 100 Sq. Ft.
- The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments.
- The contractor shall drive three test piles in a permanent location. One each at the north and south abutments and pier as directed by the engineer before ordering the remainder of the piles.
- Concrete piles at abutment & approach bents shall be driven in holes prepared through the embankment in accordance with art. 513.09 (C) of the standard specifications.
- The concrete rail section above the mandatory const. joint at the top of the slab shall be constructed of class X concrete, except the aggregates shall conform to the requirements of handrail concrete.
- Protective coat shall not be applied to surfaces to which waterproofing membrane syst. is applied.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of  $\pm 1/8$  inch. Adjustment shall be made either by grinding the surface or by shimming the bearing. Two  $1/8"$  adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.



**PLAN**

**DESIGN NOTES:**

**DESIGN LOADING:**  
 HS 15-44 and allowance for 25 P.S.F. Future wearing surface

**DESIGN STRESSES:**

$f_c = 1400$  P.S.I. Except as follows:  
 $f_c = 1200$  P.S.I. For Deck Slab.  
 $f_c = 1000$  P.S.I. For conc. in contact with earth.  
 $f_s = 20,000$  P.S.I. M41 Structural Steel.  
 $f_s = 20,000$  P.S.I. Reinforcement Steel.  
 $v = 75$  P.S.I. allowable shear in footings.  
 $n = 10$   
 Allowable live load deflection =  $L/1200$  (Composite)  
 DESIGN SPECIFICATIONS: AASHTO 1969 as applicable.

**TOTAL BILL OF MATERIAL**

| ITEM                              | UNIT     | SUPER STRUCT. | SUB STRUCT. | TOTAL  |
|-----------------------------------|----------|---------------|-------------|--------|
| Protective coat                   | Sq. Yds. | 208.0         | —           | 208.0  |
| Class X Concrete                  | Cu. Yds. | 263.8         | 195.7       | 459.5  |
| Structural Steel                  | L. Sum.  | 0.12          | —           | 0.12   |
| Aluminum Railing                  | Lin. Ft. | 496.0         | —           | 496.0  |
| Reinforcement bars                | Lbs.     | 61,920        | 22,330      | 84,250 |
| Stud Shear Connectors             | Each     | 1248          | —           | 1248   |
| Concrete Piles                    | Lin. Ft. | —             | 1982        | 1982   |
| Test Piles (Concrete)             | Each     | —             | 3           | 3      |
| Name Plates                       | Each     | —             | 1           | 1      |
| Slope walls (4")                  | Sq. Yds. | —             | 248.0       | 248.0  |
| Bit. Conc. Surface Course Class I | Tons     | 63.0          | —           | 63.0   |
| Waterproofing Mem. System         | Sq. Yds. | 742.0         | —           | 742.0  |
| Sand Backfill                     | Cu. Yds. | —             | 221.0       | 221.0  |
| Preformed Jt. Sealer              | Liq. Ft. | 61            | —           | 61     |
| Permanent B.M. Type I             | Each     | 1             | —           | 1      |

\* Calculated Weight of Structural Steel = 193,150 Lbs.

APPROVED

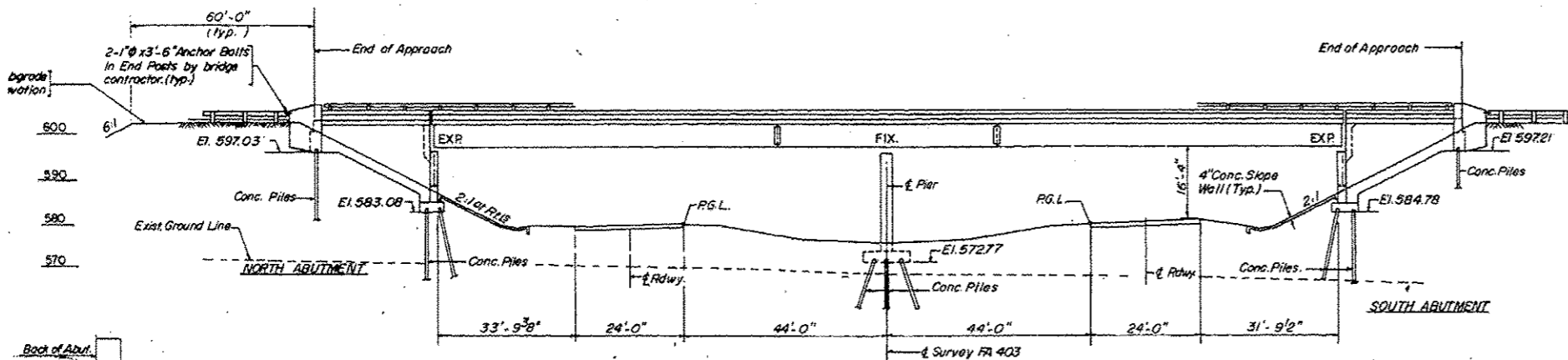
FOR STRUCTURAL ADEQUACY ONLY

**GENERAL PLAN & ELEVATION**

FA 403 SECTION 161-IHB-1  
 FA 403 UNDER TR 182  
 ROCK ISLAND COUNTY

FOR INFORMATION ONLY

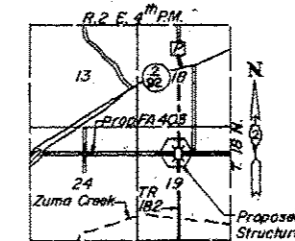
STATION 320+64.69



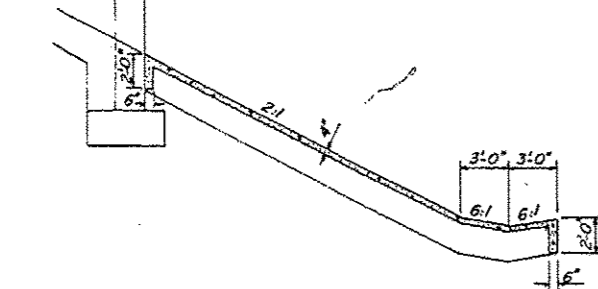
**ELEVATION**

**NAME PLATE**

SEE STD. 2113

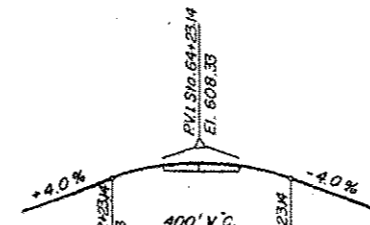


**LOCATION MAP**

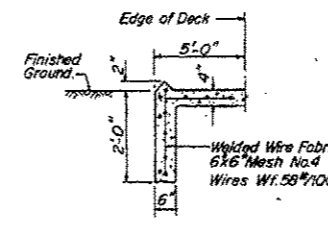


**SECTION THRU SLOPEWALL AT ABUT.**

**PROFILE FA 403 ALONG & SURVEY**



**PROFILE T.R. 182**



**SECTION B-B**

|          |        |
|----------|--------|
| DESIGNED | B.T.M. |
| CHECKED  | D.M.P. |
| DRAWN    | A.M.   |
| CHECKED  | D.M.P. |

|   |                                      |           |          |  |                            |             |                          |             |              |                           |
|---|--------------------------------------|-----------|----------|--|----------------------------|-------------|--------------------------|-------------|--------------|---------------------------|
| FILE NAME:  | USER NAME: drossdd                   | DESIGNED: | REVISED: | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | EXISTING PLANS SN 081-0120 | F.A.I. RTE. | SECTION                  | COUNTY      | TOTAL SHEETS | SHEET NO.                 |
| 0:\DR\Dross\Rock Island\64K16 Cleaning & Painting SH 081-0120 & 0127\CA00\02-shr-co | 081-0120                             | 081-0120  | 081-0120 |  |                            | 88          | B2 BRIDGE PAINTING 2015- | ROCK ISLAND | 17           | 12                        |
| Default   | PLOT SCALE = 1/20,000 1" = 200'      | CHECKED:  | REVISED: |  |                            |             |                          |             |              |                           |
|   | PLOT DATE = Wed Aug 05 11:17:11 2014 | DATE:     | REVISED: |  |                            |             |                          |             |              |                           |
|   |                                      |           |          |  |                            |             |                          |             |              | CONTRACT NO. 64K16        |
|   |                                      |           |          |  |                            |             |                          |             |              | ILLINOIS FED. AID PROJECT |