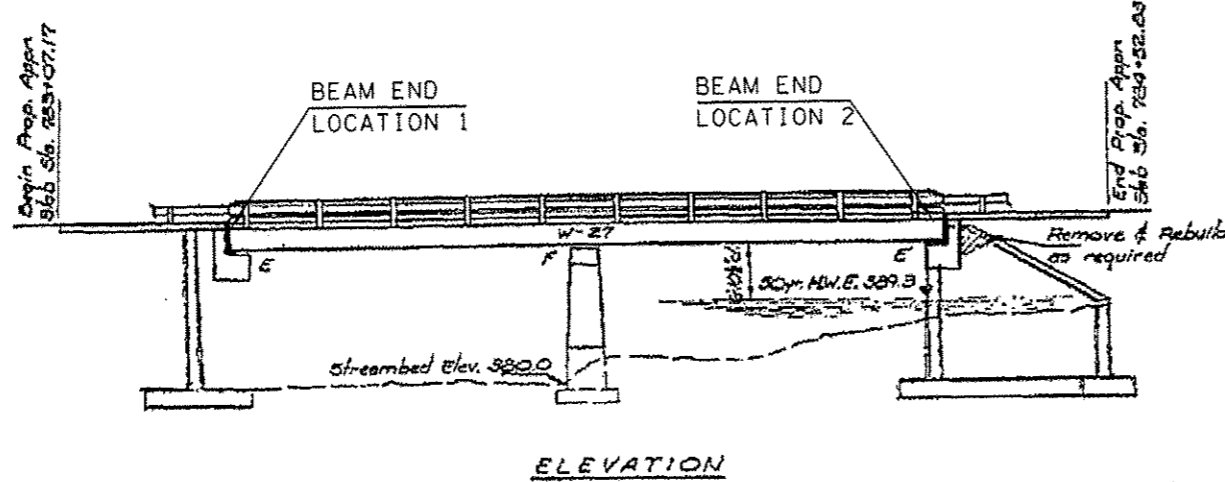


B.M.: R.R. Spike in power pole 56' Ri. Sta. 779+00  
Elev. 396.90  
Existing Structure: No. 035-0004, built as S.B. Rte. 34, Sec. 35 in 1924, 2 spans R.C. thru girder on R.C. closed abutments & pier. The contractor shall remove the existing superstructure in places and provide a new wider superstructure with 27" I-Beams. Widen the substructure. Repair the pier as required. Traffic shall be maintained at all times using stage construction.

No Salvage.

**GENERAL NOTES**

- Fasteners shall be high strength bolts. Bolts  $\frac{3}{4}$ " $\phi$ , open holes  $\frac{1}{16}$ " $\phi$ , unless otherwise noted.
- Calculated weight of Structural Steel = 49,980 Lbs.
- All structural steel shall be AASHTO: M222 unpainted except expansion joint angles and attached bars which shall be AASHTO: M183 and shop painted with two coats of basic lead silico chromate paint.
- Field welding of construction accessories will not be permitted to the bottom 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 bolting diaphragms over supports.
- It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.
- The concrete rail section above the mandatory construction 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.
- 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 1/2" adjusting shims, of the dimensions of the bottom bearing plate, shall be provided for each bearing in addition to all other plates or shims.
- The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the tension flanges, webs and oil splice plate material of the steel girders or wide flange beams.
- All Reinforcement Bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60. See Proposal for Boring Data.

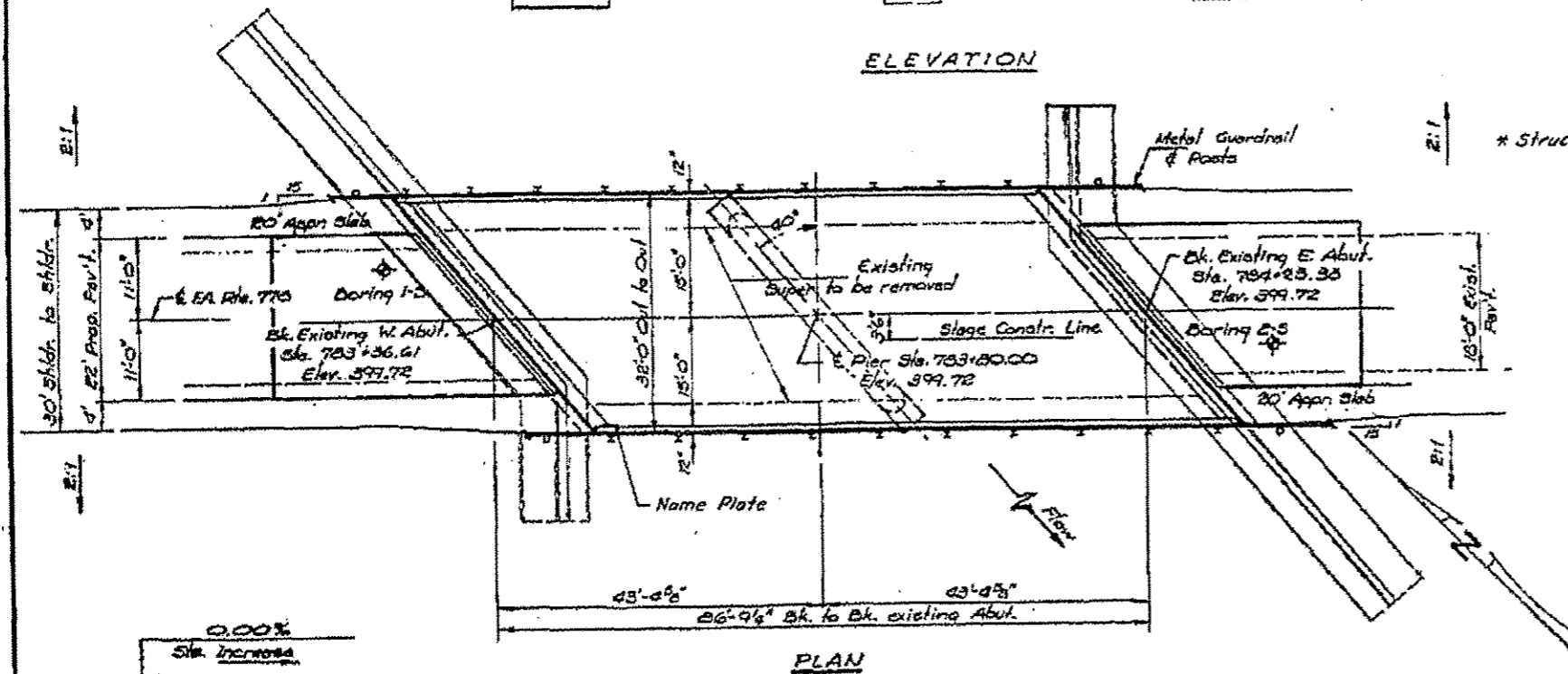


STATION 783+80.00  
REBUILT 157 BY  
STATE OF ILLINOIS  
F.A. RT. 778 SEC. 38-DR

LOADING HS20-44  
\* STR. NO. 035-0004

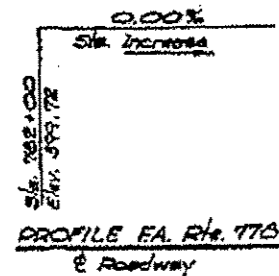
**NAME PLATE**  
See Std. 2113

\* Structure Number to be supplied by District.



**TOTAL BILL OF MATERIAL**

| Item                                | Unit     | Super  | Sub    | Total  |
|-------------------------------------|----------|--------|--------|--------|
| Removal of Existing Superstructures | Each     | 1      |        | 1      |
| Concrete Removal                    | Cu. Yds. |        | 74     | 74     |
| Protective Coat                     | Sq. Yds. | 325    |        | 325    |
| Class X Concrete                    | Cu. Yds. | 74.3   | 102.9  | 177.2  |
| Structural Steel                    | L.S.     |        | 0.78   | 0.78   |
| Steel Railing (Type T)              | Lin. Ft. | 177    |        | 177    |
| Reinforcement Bars                  | Lbs.     | 7140   | 11,900 | 19,040 |
| Reinforcement Bars (Epoxy Coated)   | Lbs.     | 13,130 |        | 13,130 |
| Name Plates                         | Each     | 1      |        | 1      |
| Temporary Guardrail                 | Lin. Ft. | 89     |        | 89     |
| Prefabricated Joint Sealer (E2)     | Lin. Ft. | 83     |        | 83     |
| Temporary Support System            | L.S.     |        |        | 1      |



**WATERWAY INFORMATION**

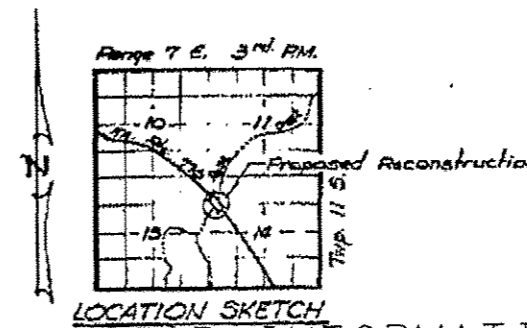
|                    |              |
|--------------------|--------------|
| Drainage Area      | 9.6 sq. mi.  |
| Existing Opening   | 430 sq. Ft.  |
| Required Opening   | 430 sq. Ft.  |
| Proposed Opening   | 430 sq. Ft.  |
| N.W. Elev. 50 yr.  | 359.3 Elev.  |
| Created Head       | 2.960 c.f.s. |
| N.W. Elev. 100 yr. | 0.83'        |
| Created Head       | 359.8 Elev.  |
| Created Head       | 3400 c.f.s.  |
| Created Head       | 0.68'        |

**DESIGN STRESSES**

$f'_c = 3,500$  psi  
\*  $f_y = 60,000$  psi (Reinf.)  
 $f_s = 20,000$  to  $24,000$  psi (Structure)

**LOADING HS 20-44**

Allow  $2\frac{1}{2}$ " for future wearing surface.  
Design Specification: 1973 AASHTO, 1974, 1975, 1976 and 1977 Interim Specifications. \* Epoxy coated reinforcement bars shall be used in the top layer of the slab.



**GENERAL PLAN & ELEVATION**  
FA. Rte. 778 Over ROSE CREEK  
FA. Rte. 778 SECTION 38-DR  
HARDIN COUNTY  
Sta. 783+80.00

FOR INFORMATION ONLY

|   |                      |                       |                      |
|---|----------------------|-----------------------|----------------------|
| FILE NAME: c:\pwwork\pwwork\dahmer.ja\d0382426\784-gnt-plan.dgn | USER NAME: dahmer.ja | DESIGNED: [Signature] | REVISED: [Signature] |
| DESIGNED: [Signature]   | DRAWN: [Signature]   | CHECKED: [Signature]  | REVISED: [Signature] |
| PLLOT SCALE: 2.7909 / in.                                       | DATE: 3/21/2014      |                       |                      |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

035-0004  
IL 34 OVER ROSE CREEK

SCALE: SHEET OF SHEETS STA. TO STA.

|                           |                        |        |              |                    |
|---------------------------|------------------------|--------|--------------|--------------------|
| F.A. RTE.                 | SECTION                | COUNTY | TOTAL SHEETS | SHEET NO.          |
| 09                        | D9 BRIDGE PAINT 2014-1 | *      | 13           | 4                  |
| ILLINOIS FED. AID PROJECT |                        |        |              | CONTRACT NO. 78418 |

NEW SHEET 6-3-14