

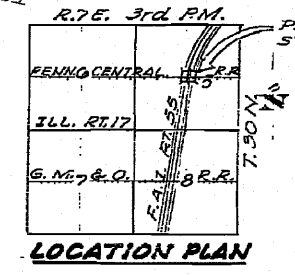
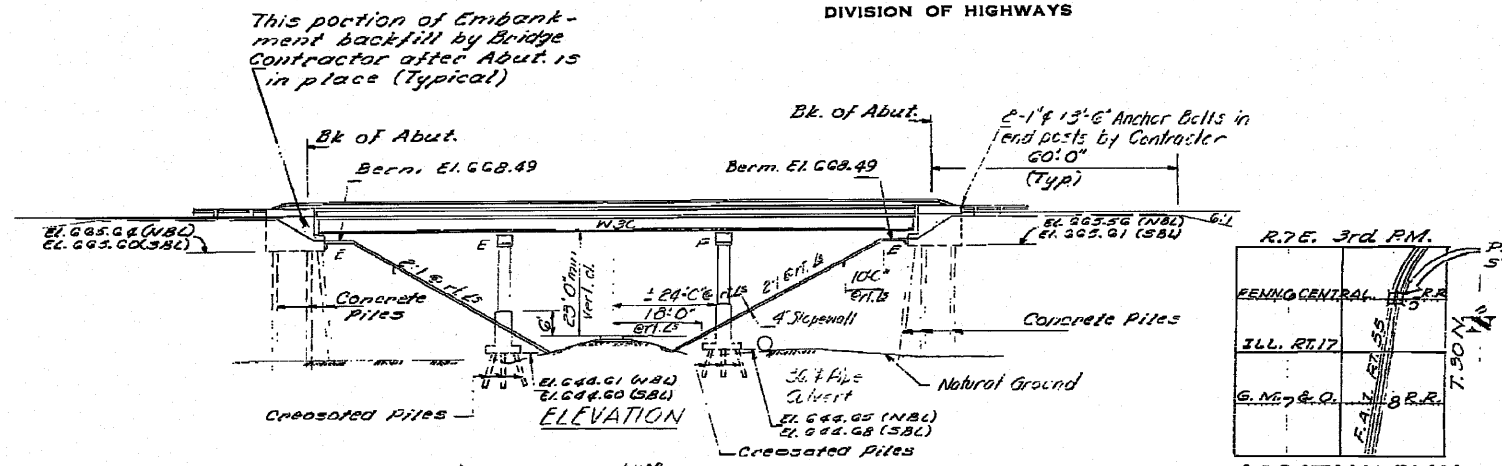
BM: #38 RR Spike in RR Tie Fence Post Approx. 175'  
 Encl. Sect. Line Elev. 602.60 Sta. 47189.11

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS

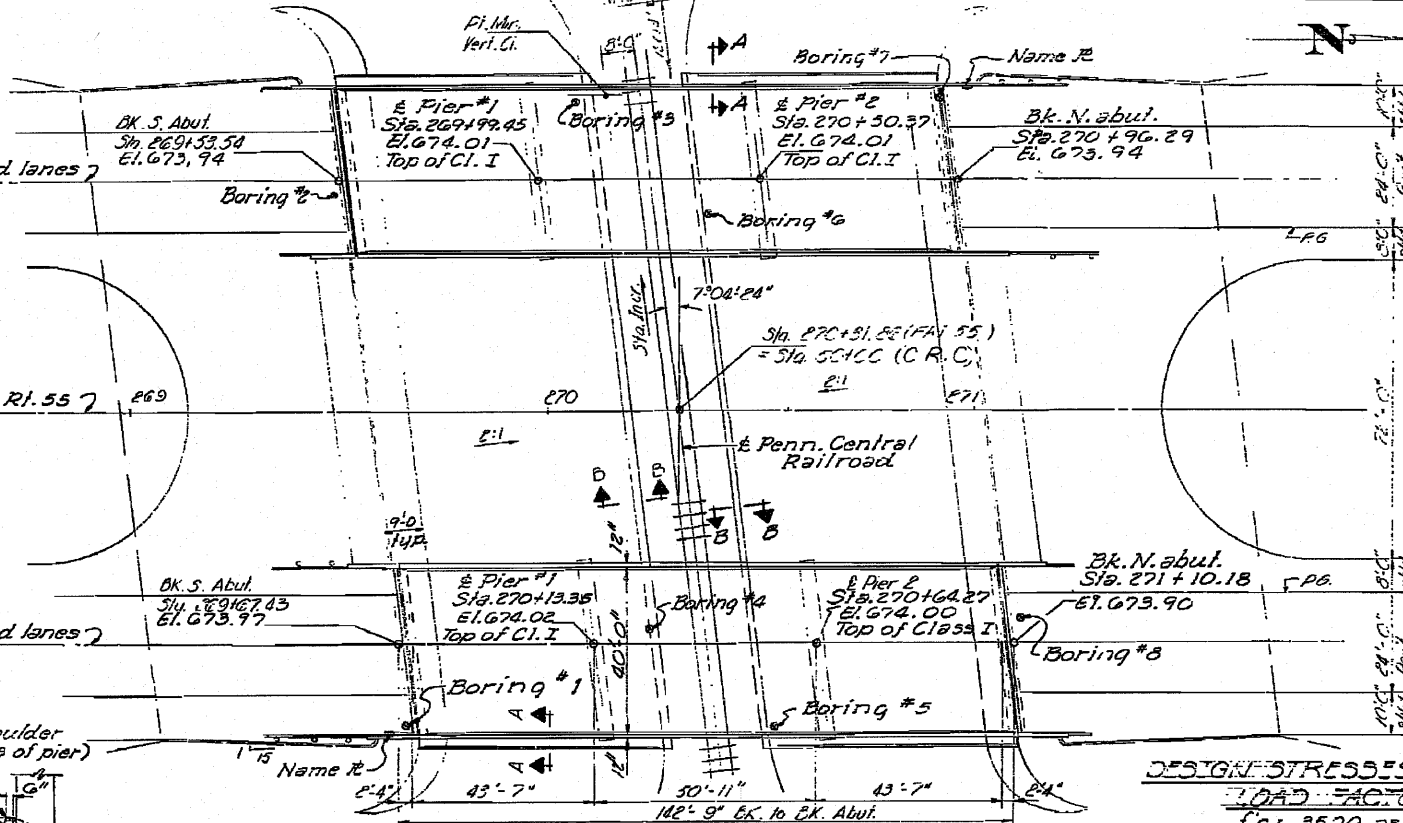
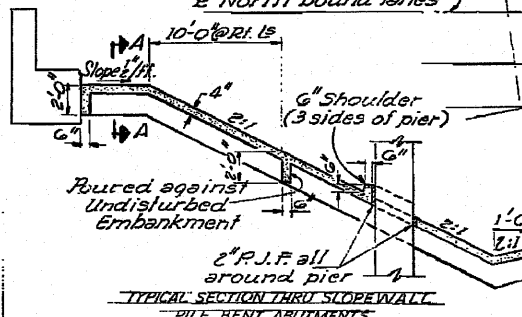
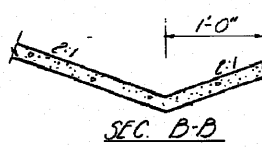
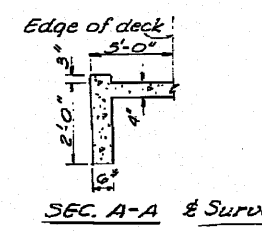
|                       |                   |           |                           |           |
|-----------------------|-------------------|-----------|---------------------------|-----------|
| NO. 1                 | SECTION           | COUNTY    | TOTAL SHEETS              | SHEET NO. |
| 55                    | (S3-DHBR & HBR-1) | TROUQUAIS | 102                       | 62        |
| FED. ROAD DIST. NO. 1 |                   |           | ILLINOIS FED. AID PROJECT |           |

STATION 270+31.86  
 BUILT BY  
 STATE OF ILLINOIS  
 EAST ST. SEC. 55-17B  
 F.A. PROJ. 55-5178/209  
 LOADING HS20 & ALL  
 STR. NO. \*

NAME PLATE  
 S.D. 2112  
 \*Structure Number to be  
 supplied by District.

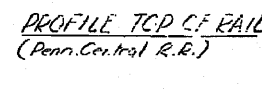


**GENERAL NOTES**  
 All reinforcement bars shall be lapped 24 diameters unless otherwise shown.  
 Fasteners shall be high strength bolts. Bolts 3/8" diam. holes 1/2" unless otherwise noted.  
 Calculated weight of Structural Steel = 267,420 Lbs.  
 The basic lead silico chromate paint system shall be used for shop and field painting Structural Steel.  
 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.  
 Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, weighing 100#/sq. ft.  
 The Contractor shall drive one concrete pile at each of the following: South abut., South bound lanes, North abut., North bound lanes. One creosoted timber test pile at Pier 2, South bound lanes & one creosoted timber test pile at Pier one, North bound lanes.  
 These piles shall be driven under the direction of the Engineer before ordering remainder of piles.  
 Concrete piles at abutments shall be driven in holes precored through the embankment in accordance with Article 513.09 (c) of the Standard Specifications.  
 The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments & piers.  
 The concrete rail section above the mandatory construction joint at the top slab shall be constructed of Class X Concrete except if aggregates shall conform to the requirements of normal concrete.  
 Projective coat shall not be applied to surfaces to which waterproofing Membrane System is applied.



**DESIGN STRESSES - JK. SLAB**  
 LOAD FACTOR  
 f'c = 3500 psi  
 fy = 60,000 psi (Grade 60)  
 Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. V-3 or M-53 Grade 60.

**DESIGN STRESSES**  
 f = 1,400 psi (Curb, parapet, Sit.)  
 f = 20,000 psi (Reinf. - Dura, Parapet & Sub.)  
 f = 20,000 psi (Struct.)  
 f = 75 psi (F.F.)  
 n = 10  
 Allow 25% sq. ft. for future W.S.



**TOTAL BILL OF MATERIAL**

| Item                         | Unit     | Super.   | Sub.  | Refs.   |
|------------------------------|----------|----------|-------|---------|
| Minimum Rebar                | Lin. Ft. | 650      | 350   |         |
| Test Piles (Concrete)        | Each     | 2        | 2     |         |
| Test Piles (Timber)          | Each     | 2        | 2     |         |
| Preformed Joint Sealer       | Lin. Ft. | 170      | 170   |         |
| Class X Concrete             | Cu. Yds. | 365.8    | 384.4 | 750.2   |
| Protective Coat              | Sq. Yds. | 242      | 252   |         |
| Reinforcement Bars           | Lbs.     | 26,080.5 | 480   | 187,594 |
| Slope Wall (4")              | Sq. Yds. |          |       | 2,500   |
| Name Plates                  | Each     |          |       | 2       |
| Concrete Piles               | Lin. Ft. |          |       | 2,218   |
| Creosoted Piles (Up to 20')  | Lin. Ft. |          |       | 437     |
| Structural Steel             | Volume   |          |       | 1       |
| Creosoted Piles (20' to 38') | Lin. Ft. |          |       | 1,005   |

\* By Paving Contractor

DESIGNED: S.W. T. 3/1/72  
 CHECKED: Charles K. [Signature]  
 DRAWN: d. Mullerix  
 CHECKED: C.G. R.D. [Signature]

EXAMINED: [Signature] 1972  
 PASSED: [Signature]  
 APPROVED: [Signature] CHIEF HIGHWAY ENGINEER

F.A. PROJ. 55-5178/209  
**GENERAL PLAN & ELEVATION**  
 CONSOLIDATED RAIL CORP.  
 F.A. 55 SECTION 53-17B  
 LIVINGSTON COUNTY  
 STATION 270+31.86

LOADING HS 20-44 & ALL