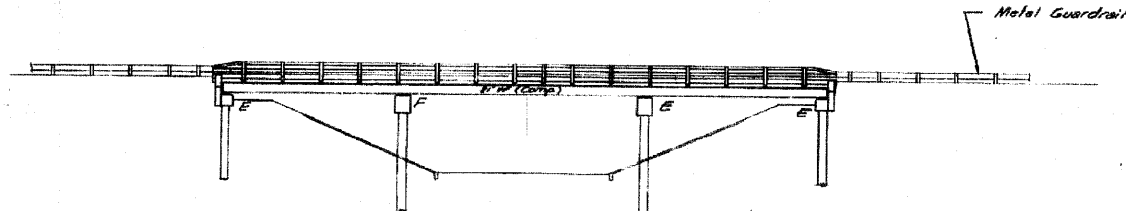


Built 83' FA RT 154  
 Sec 3-B D-F  
 Station 222+94  
 Year Built 1930

STATE OF ILLINOIS  
 DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
 DIVISION OF HIGHWAYS

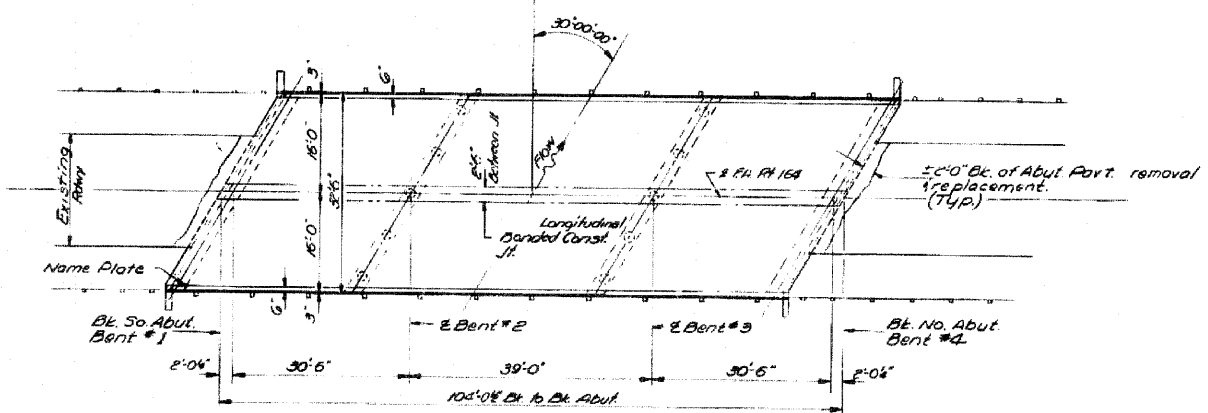
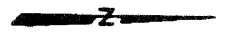
|          |      |        |       |           |
|----------|------|--------|-------|-----------|
| DATE     | BY   | CHKD   | APP'D | SHEET NO. |
| 11-16-37 | 3-BY | Greene | 35    | 4         |



ELEVATION

Station 222+94  
 Bear Creek  
 Built 19  
 F.A. Etc 164 Sec 3B-Y  
 Loading H520  
**NAME PLATE**  
 See Standard 2113-1

**GENERAL NOTES**  
 All reinforcement bars shall be lapped 24 diameters unless otherwise shown.  
 Field connections shall be lapped using high strength bolts. Bolts 3/4", open bolts 5/8", unless otherwise noted.  
 Diaphragm connections may be adapted to shop welding subject to approval by the Engineer.  
 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 cases will be permitted only when approved by the Engineer.  
 Anchor bolts shall be set before placing 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.  
 Existing deck slab & handrail shall be removed, and replaced using Stage Construction so as to permit traffic on the structure during construction.  
 Except as otherwise provided, all new structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint.



PLAN

**TOTAL BILL OF MATERIAL**

| Item                              | Unit     | Super | Sub  | Total    |
|-----------------------------------|----------|-------|------|----------|
| Concrete Removal                  | Cu Yds   |       | 62   | 62       |
| Removal of Exst. Concrete Deck    | Lump Sum | L.S.  |      | L.S.     |
| Expansion Bolts (3/4")            | Each     | 12    |      | 12       |
| C/A Excep. for Structures         | Cu Yds   |       | 12   | 12       |
| Protective Coat                   | Sq Yds   | 377   |      | 377      |
| Class X Concrete                  | Cu Yds   | 143   | 103  | 246      |
| Structural Steel                  | L. Sum   |       |      | L. Sum   |
| Stud Shear Connectors             | Each     | 1128  |      | 1128     |
| Steel Decking Type N              | Lin. Ft  | 208   |      | 208      |
| Reinforcement Bars                | Lbs.     | 23520 | 1060 | 24580    |
| Temporary Guard Rail              | Lin. Ft  | 102   |      | 102      |
| Bridge Seat Sealant               | Lump Sum |       | L.S. | L.S.     |
| Name Plates                       | Each     | 1     |      | 1        |
| Pvt. Perm. PCC Appl. Type I (10') | Sq Yds   |       |      | 11       |
| Adjust Structural Steel           | Lump Sum |       |      | Lump Sum |

\* At Abutments only  
 \*\* Calculated weight of Structural Steel = 14,080\*

DESIGNED *James H. [Signature]*  
 CHECKED *E. A. [Signature]*  
 DRAWN *F. Mercado*  
 CHECKED *ES*

August 20 1960  
 EXAMINED *[Signature]*  
 PASSED *[Signature]*  
 APPROVED *[Signature]*

**DESIGN STRESSES**  
 1c - 1800 psi (Deck Slab)  
 1c - 1800 psi (Curb Sub)  
 1s - 20,000 psi (Reinf)  
 1s - 20,000 psi (New Struct); 18,000 psi (Exst. Struct)  
 2 - 10  
 4 DeFl - 41200 (Comp)  
 LOADING H520-44

GENERAL PLAN & ELEVATION  
 BEAR CREEK  
 F.A. RT 164 SEC 3-B-Y  
 GREENE COUNTY  
 STATION 222+94

FOR INFORMATION ONLY