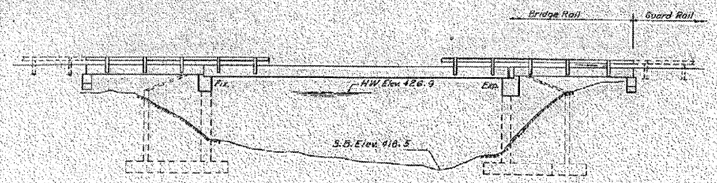
CONTRACT NO. 74107

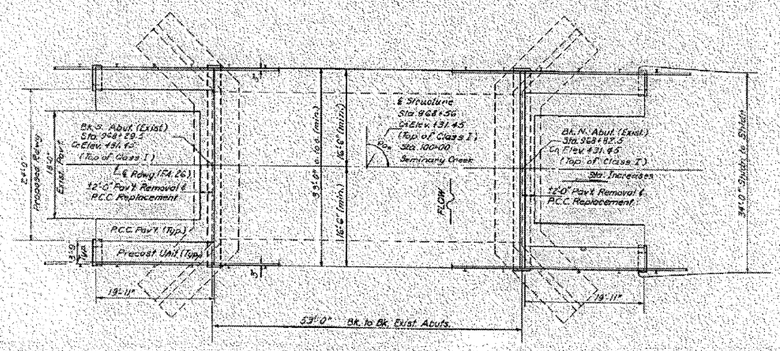
| FAP RTE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 328 | (8BR-4)B-1 | CLAY | 109 | 96 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

Bm. "T" crossed "O" top of SE Wingwall Sta. 966+25. Elev. 430.83
Existing Structure: Built as S.B.I. 25, Sec. 85, Sta. 968+56
in 1920. Superstructure is R.C. thru Girder on R.C. closed Abutments.
Contractor shall remove existing Structure after completion
of reloin. 3 detour 2.00' West of exist. Structure. No Salvage.
Temporary Bridge shall have 75 Sq.Ft. waterway opening.




ELEVATION




PLAN

WATERWAY INFORMATION

Drainage Area: 62.1 Sq. mile

| | |
|---|---|
| Present Opening | 300 Sq. Ft. |
| Proposed Opening | 300 Sq. Ft. |
| Q (50) 1350 c.f.s. | |

STATION 968+56
RESULT 19 BY
STATE OF ILLINOIS
F.A.P.T. 26 SEC. 8BR-4
LOADING HS 20

NAME PLATE
(Sec. Std. 2118 )

| | | |
|---|---|---|
| DESIGNED | Simon Wetmore | January 19 1972 |
| CHECKED | Simon Bruce | EXAMINED |
| DRAWN | Simon Wetmore | PASSED |
| CHECKED | JP | APPROVED |

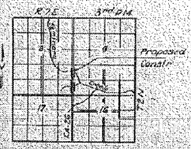
FIELD UNITS
$f'_c$ = 1000 psi (sub.)
$f_s$ = 20000 psi (reinf.)
n = 10

DESIGN STRESSES

| PRECAST PRESTR. UNITS | PRECAST UNITS |
|---|---|
| $f'_c$ = 5000 psi. | $f'_c$ = 4500 psi. |
| $f'_{ci}$ = 4000 psi. | $f'_{ci}$ = 3900 psi. |
| $f_s$ = 248,000 psi. (7/16" Strands) | $f_s$ = 20,000 psi |
| $f_{si}$ = 173,600 psi. (7/16" Strands) | n = 8 |

Design Specifications 1969 AASHO (as applicable)

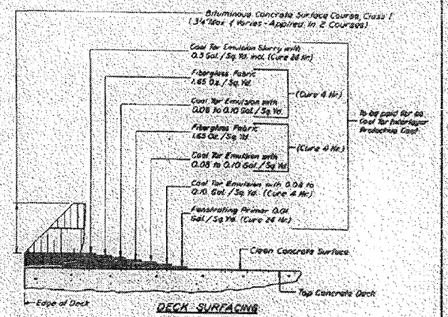
LOADING HS 20-44




LOCATION SKETCH

| Route | Section | County | Total Sheets | Sheet No. |
|---|---|---|---|---|
| 328 | 8BR-4 | CLAY | 21 | 12 |
| Fed. Road Dist. No. 7 | Illinois | Fed. Aid Project | | |

SHEET NO.
? SHEETS




DECK SURFACING

GENERAL NOTES

All reinforcement bars shall be lapped 24 diameters unless otherwise shown.

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.

An alternate strand pattern using Extra High Strength Prestressing strand (270 Ksi.) is permitted.

Expansion bolts shall consist of self drilling expansion anchors and 3/4" ø hooked bolts. Hooked bolts shall extend a minimum of 12" into new concrete, unless otherwise shown.

Shoulder transition to wingwall shall be shaped with broken concrete. Cost Incidental

TOTAL BILL OF MATERIAL

| Item | Unit | Super. | Sub. | Total |
|---|---|---|---|---|
| Bituminous Concrete Surface Course, Class I | Tons | 29 | | 29 |
| Portland Cement Concrete Pavement (10") | Sq. Yds. | 33 | | 33 |
| Pavement Fabric | Sq. Yds. | 33 | | 33 |
| Concrete Removal | Cu. Yds. | | 6.0 | 8.0 |
| Expansion Bolts (3/4") | Each | 52 | 52 | 104 |
| Class X Concrete | Cu. Yds. | 1.6 | 18.2 | 20.3 |
| Precast Concrete Bridge Slab | Sq. Ft. | 295 | | 295 |
| Precast Prestressed Concrete Deck Beams (24") | Sq. Ft. | 1739 | | 1739 |
| Steel Railing, Type 3 | Lin. Ft. | 107 | | 107 |
| Reinforcement Bars | Lbs. | | 5390 | 5390 |
| Pavement Removal & P.C.C. Replacement, Type 2 (10") | Sq. Yds. | 8 | | 8 |
| Removal of Existing Superstructures | Each | 1 | | 1 |
| Coal Tar Interlayer Protective Coat | Sq. Yds. | 135 | | 135 |
| Name Plates | Each | 1 | | 1 |
| Preformed Joint Sealer | Lin. Ft. | 53 | | 53 |
| Structural Steel | Lbs. | 6990 | | 6990 |
| Temporary Bridge Complete | Each | 1 | | 1 |

* Bk. to Bk. Existing Abutments.

GENERAL PLAN & ELEVATION
F.A.R.T. 26 OVER SEMINARY CREEK
F.A.R.T. SEC. 8BR-4
CLAY COUNTY
STA. 968+56

GP-1 (5-15-71)

| | | |
|---|---|---|
| DESIGNED BY: | DAJ | 04/08 |
| DRAWN BY: | HAS | 04/08 |
| CHECKED BY: | MTD | 05/08 |
| APPROVED BY: | RDP | 08/08 |

**FOR INFORMATION ONLY**

EXISTING STRUCTURE PLANS
US 45 OVER SEMINARY CREEK
FAP ROUTE 328 - SECTION (8BR-4)B-1
CLAY COUNTY