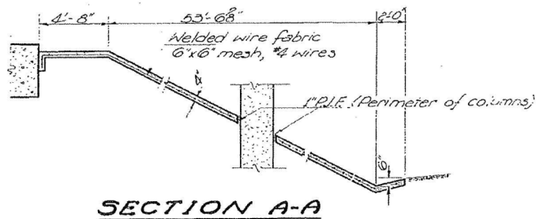
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

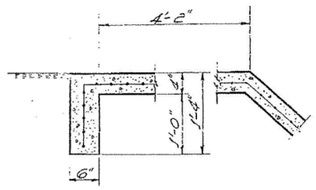
| ROUTE NO. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| F.A.I. 57 | 38-2HVB | IROQUOIS | 21 | 6 |
| FED. ROAD DIST. NO. 7 | ILLINOIS | FED. AID PROJECT | | |

SHEET NO. 2 OF 21 SHEETS

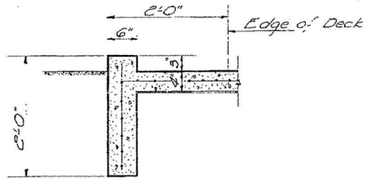



SECTION A-A

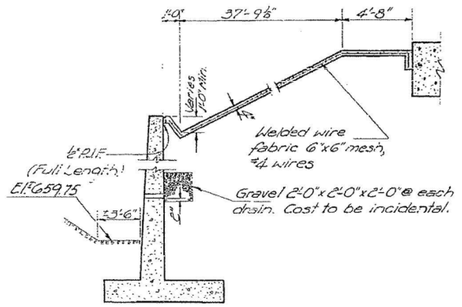
All structural steel shall comply with the specification for structural steel ASTM Designation A-36.




SECTION C-C




SECTION D-D




SECTION B-B

Excavation for portions of structures in the embankments shall not be classified.




SECTION E-E

## GENERAL NOTES

Class A Concrete shall be used throughout.

Coarse aggregate to be used in parapet, abutments and end post must be absolutely free of chert, clay, limonite, lignite and soft sandstone.

The concrete floor slab shall be finished in accordance with Art. 51.13 of the Standard Specifications.

The curb and slab outside of longitudinal bonded construction joints, shown on Cross Section, shall be poured monolithically.

Slope wall shall be reinforced with welded wire fabric 6"x6" mesh, #4 wires, weighing 58# per 100 sq. ft.

Rivets ⅞" ϕ open holes 1⅛" ϕ unless otherwise noted.

All rockers, bolsters, bearing plates, lead plates, pintles and anchor bolts shall be fabricated and set in accordance with Art. 51.15 of the Standard Specifications and are included in quantity of "Structural Steel. Estimated weight of this steel is 21,790 Lbs.

Anchor bolts shall be set before riveting diaphragms over supports.

Expansion guards are included in quantity of "Structural Steel. Estimated weight of this steel is 4,050 Lbs.

The exposed surfaces of the expansion guard shall be given two shop coats of red lead paint, the contact surfaces shall be given one coat of red lead paint. Anchor studs shall not be painted.

Except as otherwise provided, all structural steel shall receive one shop coat of red lead paint and two field coats of aluminum paint. See Art. 561 to 566 inclusive of the Standard Specifications.

The Contractor shall drive 3 test piles; one concrete pile at South Structure-East Abutment, one concrete pile at North Structure-West Abutment in permanent location and one timber pile near North Structure-Pier #3, as directed by the Engineer before ordering the remaining piles.

Concrete piles at abutments shall be driven in holes preored through the embankment in accordance with Art. 60.9(c) of the Standard Specifications.

The following surfaces shall be waterproofed: North Structure-Pier #1, South Structure-Pier #2 and Retaining walls from the top of the embankment to the top of the footings.

Permanent forms will not be permitted in forming the concrete keys.

## TOTAL BILL OF MATERIAL

| Item | Super Sub. | | Total |
|---|---|---|---|
| Class "A" Excav. for Struct. | Cu. Yds. | | 1200 |
| Class "A" Concrete | Cu. Yds. | 826.3 | 1093.5 | 1919.8 |
| Structural Steel | Lbs. | 830890 | | 830890 |
| Aluminum Handrail | Lin. Ft. | 1478 | | 1478 |
| Reinforcement Bars | Lbs. | 180560 | 150000 | 330560 |
| Creosoted Piles | Lin. Ft. | | 3410 | 3410 |
| Test Pile (Timber) | Ea. | | 1 | 1 |
| Concrete Piles | Lin. Ft. | | 6984 | 6984 |
| Test Piles (Concrete) | Ea. | | 2 | 2 |
| Temporary Steel Sheet Piling | Sq. Ft. | | | 3886 |
| Name Plates | Ea. | | 2 | 2 |
| Slope Wall | Sq. Yds. | | | 1810 |
| Protective Coat | Sq. Yds. | | | 3350 |
| Bridge Seat Joint | Lin. Ft. | | | |

DESIGNED — CHECKED — DRAWN — CHECKED

AUG 28 1963

EXAMINED — ENGINEER OF BRIDGE AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF DESIGN
APPROVED — CHIEF HIGHWAY ENGINEER

## TABLE OF MOMENTS AND REACTIONS - INTERIOR BEAM

| | Moments - Ft. Kips | | | | | Reactions - Kips | | |
|---|---|---|---|---|---|---|---|---|
| | 0.4 Span #1 | Pier #1 | 0.5 Span #2 | Pier #2 | 0.5 Span #3 | Abut. | Pier #1 | Pier #2 |
| D.L. | 298.4 | 383.8 | 130.4 | 638.1 | 454.1 | 23.5 | 67.3 | 84.0 |
| L.L. | 396.1 | 330.7 | 382.9 | 458.2 | 520.3 | 34.3 | 45.6 | 51.5 |
| Imp. | 107.0 | 86.0 | 95.7 | 110.0 | 119.7 | | | |
| Total | 791.5 | 800.5 | 609.0 | 1,206.2 | 1,094.1 | 57.8 | 112.9 | 135.6 |

D.L. = Dead Load  L.L. = Live Load  Imp. = Impact

## MISCELLANEOUS PROJ.
## F.A.I. RT. 57 OVER S.B.I. RT. 25 & I.C.R.R.
## F.A.I. RT. 57 SEC. 38-2HVB
## IROQUOIS COUNTY
## STA. 1037+61.38

FOR INFORMATION ONLY

| | | | |
|---|---|---|---|
| TERRA ENGINEERING LTD. | USER NAME = | DESIGNED - DDB | REVISED |
| | | CHECKED - OY | REVISED |
| | PLOT SCALE = | DRAWN - DDB | REVISED |
| | PLOT DATE = | CHECKED - OY | REVISED |

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

**EXISTING STRUCTURE PLANS**
**STRUCTURE NOS. 038 – 0013 & 0014**
SHEET NO. 2 OF 20 SHEETS

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 57 | 38-2HVB, HVBR-1 | IROQUOIS | 146 | 112 |
| | | CONTRACT NO. 66942 | | |
| | ILLINOIS | FED. AID PROJECT | | |

T:\Projects\09-228-1007-157 Bridges- PTB 153-37\Drawings\CADD Drawings\Structural\Final Plans\existing plans\038003_+66942-002-EX. BRIDGE PLANS.dgn