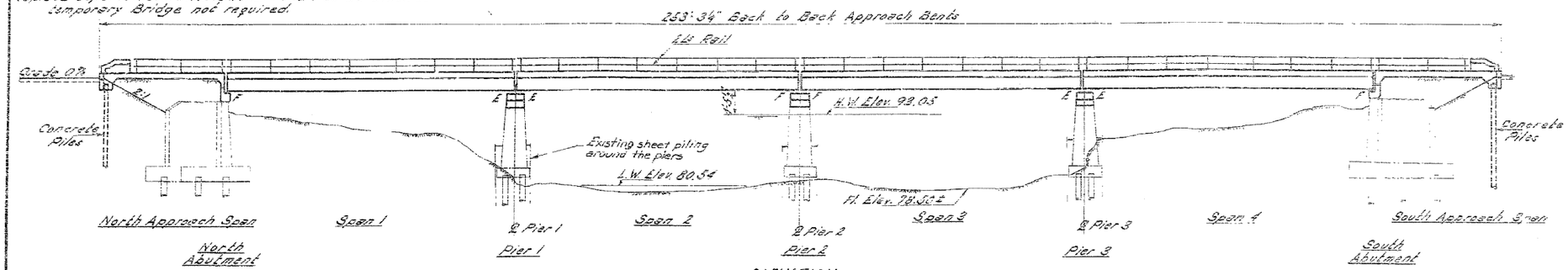
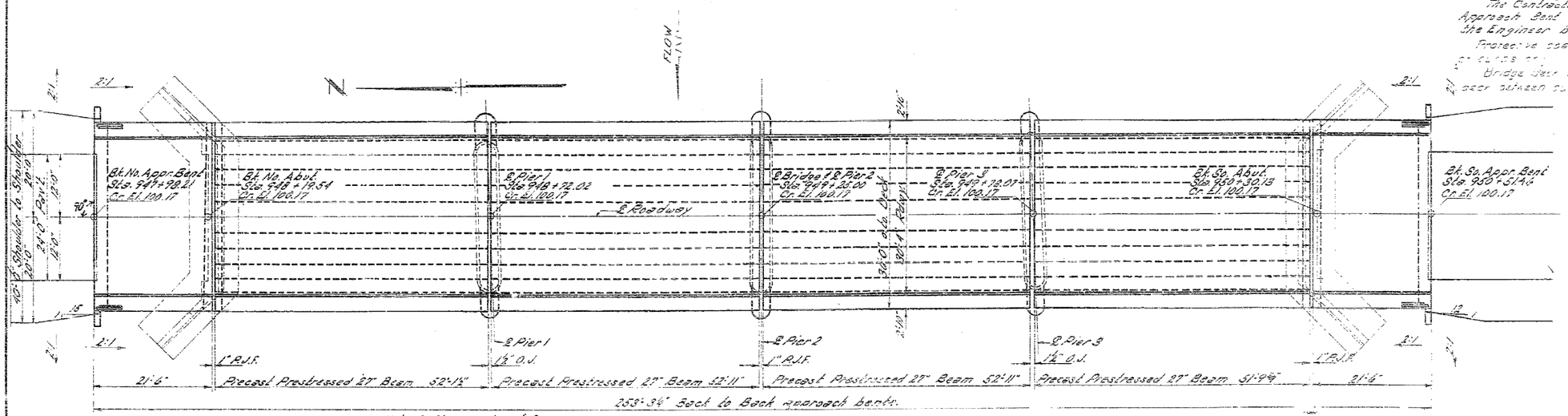
B.M. 3 on Top of South West Corner of South Abutment Elev. 100.00
Existing Structure: 8 Span 3 Hinged Thru girder, 1 Span 3 Hinged Thru 21.8 on P.C. Abut. & Piers.
Replace Superstructure. Abutments & Piers to be widened
Temporary Bridge not required.

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

**EXISTING SN. 053-0050 AS-BUILT PLANS-FOR INFORMATION ONLY-STRUCTURE TO BE REMOVED**




ELEVATION




Note: Cr. El's. are @ top of P.-11.

PLAN

## TOTAL BILL OF MATERIALS

| Item | | Super | Sub | Tot. |
|---|---|---|---|---|
| Protective Coat | | | | 204 |
| Bridge Deck Sealant | L.S. | | | 1 |
| Bridge Deck Sealant | | | | 707 |
| Prestressed Conc. Bridge Beam | Cu. Yds. | 1,510 | | 1,510 |
| Class K Concrete | Cu. Yds. | 317 | 50.4 | 367.4 |
| Handrail Concrete | Cu. Yds. | 1.5 | | 1.5 |
| Reinforcement Bars | Lbs. | 20,330 | 7,540 | 27,870 |
| Removal of Exist. Superstruct. | Ea. | 1 | | |
| Concrete Piles | Lin. Ft. | | 275 | 275 |
| Name Plates | Each | 1 | | 1 |
| Metal Handrail | Lin. Ft. | 493 | | 493 |
| Class A Excavation for str. | Cu. Yds. | | 60 | 60 |
| Concrete Removal | Cu. Yds. | | 42 | 42 |
| Test Piles (Concrete) | Each | | 1 | |

## GENERAL NOTES

Class K Concrete shall be used throughout except in end posts.

Handrail Concrete shall be used in end posts.

The Concrete floor slab of approach slabs shall be finished in accordance with Article 516.17 of Std. Specifications.

All steel handrail posts shall be vertical.

The exposed faces of the 1" x 1" x 1/8" expansion guard angles shall receive two shop coats of red lead paint.

Cost of furnishing and application of paint shall be included in the unit price for Precast Prestressed Concrete Bridge Deck.

The Contractor shall drive 1 concrete test pile at the Approach Bent in permanent location as directed by the Engineer before ordering remainder of piles.

Protective coat shall be applied to inside faces and top of curbs only.

Bridge deck sealant shall be applied to top of pavement over between curbs before application of pavement wearing surface.

STA 949+26.00
BUILT 19 BY
STATE OF ILLINOIS
F.A.I. PROJ. F-157(14)
LOADING H-20 S-16

NAME PLATE
See Std. 3113-1

## WATERWAY INFORMATION

Drainage Area ..... 143,744 Acres
Character ..... Level & Rolling
Required Opening ..... [illegible] Sq. Ft.
Present Opening ..... 1,619 Sq. Ft.
Proposed Opening ..... 1,619 Sq. Ft.
Ordinary water elev.
Low water elev. 80.54

## PRESTRESSED PRECAST UNITS

$f'_c$ = 5,000 p.s.i.
$f'_{ci}$ = 4,000 p.s.i.
$f_s$ = 250,000 p.s.i. (Cables)
$f_y$ = 60,000 p.s.i.
$f_s$ = 18,000 p.s.i. (Strand)

## DESIGN STRESSES

$f_c$ = 1,400 p.s.i.
$f_s$ = 20,000 p.s.i. Reinf.
$f_s$ = 18,000 p.s.i. Struct.
n = 10

LOADING H-20-S16-44

| | |
|---|---|
| DESIGNED | [illegible] |
| CHECKED | N. Kaguri |
| DRAWN | P. Lawler |
| CHECKED | J.K. |

Sept. 30, 1959

EXAMINED — Engineer of Bridge and Traffic Structures
PASSED — Engineer of Design
APPROVED — Chief Highway Engineer

PROJ. F-157(14)
NORTH FORK VERMILLION RIVER
S.B.I. R. 21 W.E.R. 12° E.P.I.
VERMILLION COUNTY
STA. 949+25

Added Bridge Deck Sealant 707 sq. yds., Protective Coat 204 sq. yds., Bridge Deck Sealant 1 Lump Sum. Revised reinforcement bars from 21,960 Lbs. to 27,870 Lbs.