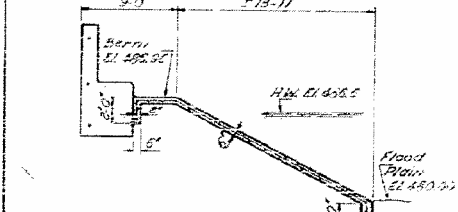
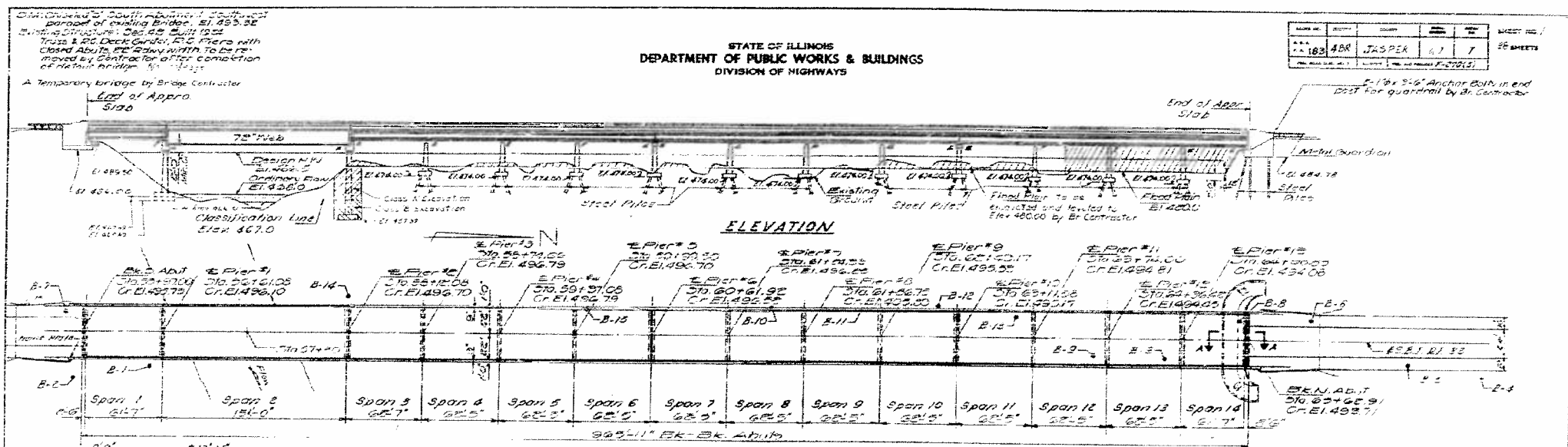


STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

PROJECT NO.	183 4BR	JASPER	67	7	SHEET NO.
					26 SHEETS



PLAN
GENERAL NOTES

All reinforcement bars shall be lapped 34 diameters unless otherwise shown.
Field connections shall be bolted using high strength bolts. Bolts 3/4" open holes 1/2" unless otherwise shown.
Field welding of construction accessories will not be permitted in the bottom flange of girders. Field welding in other areas will be permitted only when approved by the Engineer.
Rock Excavation at Pier 1 shall be restricted to the footing limits only.
Anchor bolts shall be set before bolting cross frame over supports.
Slope wall shall be reinforced with welded wire fabric 6x6 mesh, weighing 56 lb. per 100 sq. ft. Layout of slope walls may be varied in the field to suit ground conditions as directed by the Eng.
The Contractor shall drive 3 Steel Test Piles in a perpendicular position, one at each of the following, No. Abut., Pier 3 and Pier 1, as directed by the Engineer before ordering the remainder of piles.
Class A Excavation for structures includes excavation for sloeswall.
An alternate strand pattern using Extra High Strength Prestressing strand (770 K.S. 2) is permitted.
The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of abutments.
The concrete wall sections above the manufacturing construction joint at the top of the slab shall be constructed of Class X Concrete, except the approaches shall conform to the requirements of Normal Concrete.
Drive all steel piles to refusal.
Existing structure is approximately 795' long from Sta. 56+00 to Sta. 64+00.
Portions of the existing pier stems and/or landings in the vicinity of the So. Abut., Pier 6 and Pier 8 may need to be removed below the normal removal elevation to allow new construction.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Rock Excavation for Structures	Cu. Yd.			20
Removal of Existing Structures	EA			1
Class A Earth for Structures	Cu. Yd.			1210
Class B Earth for Structures	Cu. Yd.			120
Protective Coat	Sq. Yds.	2280		2280
Class X Concrete	Cu. Yds.	14676	10260	25245
Steel Prest. Conc. 7 Ann. 183'	Lin. Ft.	4943		4943
Structural Steel	L.S.	1		1
Steel Shear Connectors (1/4" Dia.)	Ea.	1575		1575
Aluminum Roofing	Lin. Ft.	1226		1226
Reinforcement Bars	Ea.	328,990	25,790	354,780
Steel Piles (10 1/2" Dia.)	Lin. Ft.		7114	7114
Test Piles (Steel Pipe 24")	Ea.		3	3
Wave Piles	Ea.		1	1
Slope Wall (6")	Sq. Yds.			270
Temporary Bridge Complete	Ea.			1
Bridge Seal Coating	L.S.			1
Prestressed Joint Sealer	Lin. Ft.	46		46

SECTION A-A
(North West View)

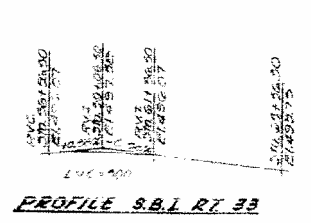
STATION 57+30
BUILT BY
STATE OF ILLINOIS
S.B.L. RT 33 SEC. 4-BE
N.A. P.O. 1. 370 (S)
LOADING H-20

NAME PLATE
(See Std. 312-1)

WATERWAY INFORMATION

Drainage Area: 14203 sq. miles
Character: Level, rolling, clay, wooded, cultivated
Total Required Opening: (100 Year Flood) - 2812 sq. ft.
Total Project Opening: 1251 sq. ft.
Proposed Opening: 7200 sq. ft.
Percent Overlap Opening: 1150 sq. ft.
Total 14203 sq. ft.

DESIGNED	Examined
CHECKED	PASSED
DRAWN	Checked
CHECKED	



DESIGN STRESSES

FIELD UNITS
F_c = 1500 psi - Deck Slab
F_c = 1400 psi - Curbs, Parapet, Sub
F_c = 50,000 psi - Reinf.
F_c = 20,000 psi - Struct.
F_c = 75 psi - Figs.
n = 10 - Allowable C_r 2000 (R. Garter Spans)

PRECAST PRESTRESSED UNITS
F_c = 5000 psi
F_t = 4000 psi
F_s = 240,000 psi - Strands
F_s = 170,000 psi - Strands
Allowable Future F_s = 200,000 psi
E_c = 4,000,000 psi



GENERAL PLAN & ELEVATION
PROJ. E-270 (5)
EMBARCASS RIVER
FARMERS SEC. 4-BE
JASPER COUNTY
STATION 57+30