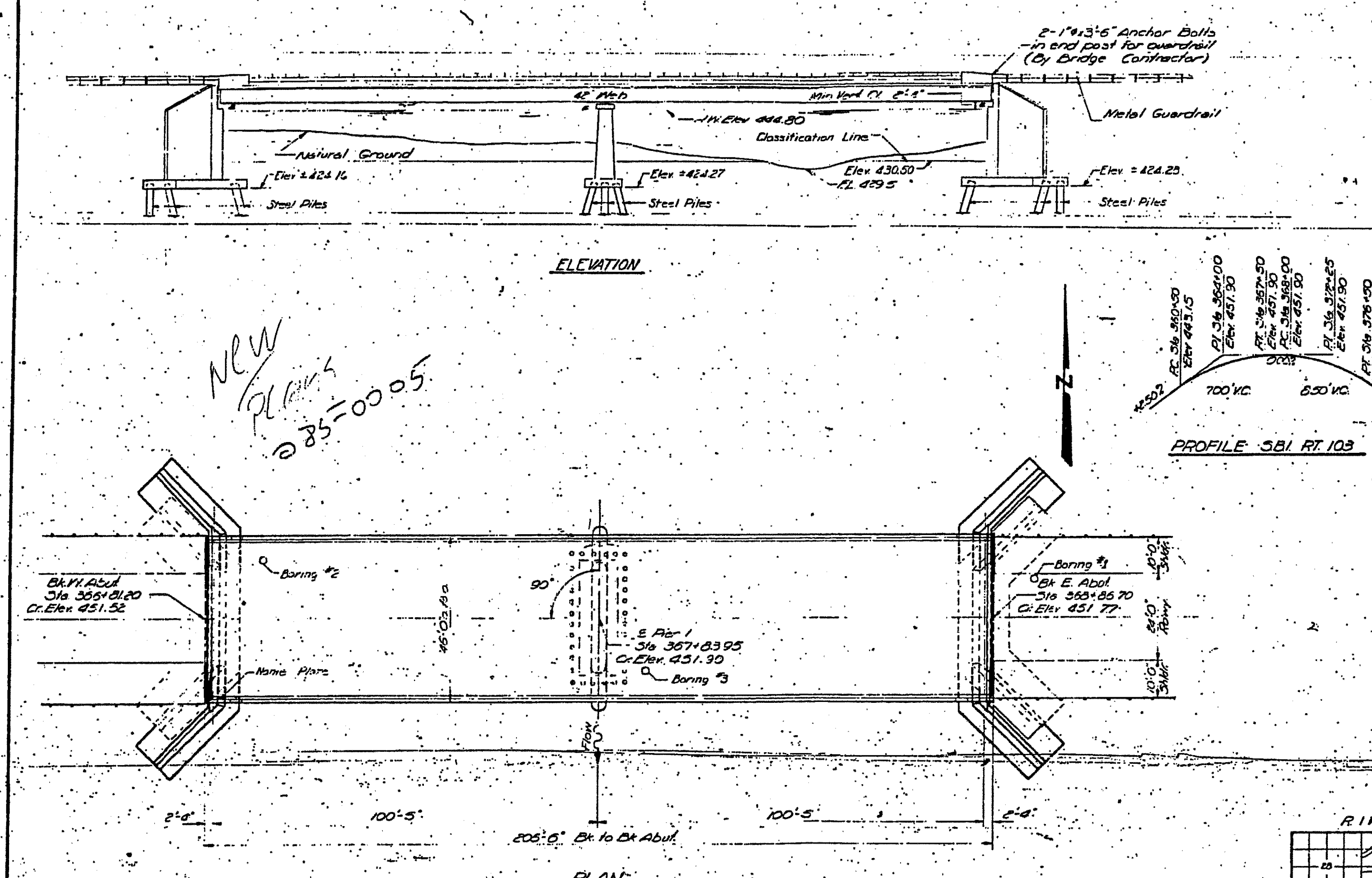
CONTRACT: 72D87
SHEET 13 OF 16

BM #4 RR Spike in Power Pole 20' Lt of Sta 377+70 Elev 430.57
Existing Structure built as SBI Route 103, Sec 102-B, Year built (1932). Superstructure Truss. 21' roadway with RC slab. RC Closed Abutments and solid piers.
Contractor shall remove existing superstructure during construction of New Bridge. Salvage Trusses to become his property. No temporary structure necessary. Traffic detoured on marked route.

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

F.A. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 47	102BR	Schuyler	27	6

SHEET NO. 1
15 SHEETS



New Plans 085-0005

GENERAL NOTES

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

Field connections shall be bolted using high strength bolts. Bolts 3/4" ø, holes 13/16" ø, unless otherwise noted.

The basic lead Silico Chromate paint system shall be used for shop and field painting of Structural Steel.

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 areas will be permitted only when approved by the Engineer.

Anchor bolts shall be set before fastening 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.

The concrete rail section above the mandatory construction joint at the top of the slab shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Handrail Concrete.

The Contractor shall drive two steel test piles in permanent location, one test pile at East Abutment, another test pile at Pier as directed by the Engineer before ordering the remainder of piles.

The Back of Abutment and Back of Wing Walls shall be waterproofed from top of footing to 4" below finished grade.

Existing sheet piling at both ends of the pier and at toe of east abutment wings to be removed. (See Special Provisions)

Calculated weight of Structural Steel = 295,360 lbs.

TOTAL BILL OF MATERIAL

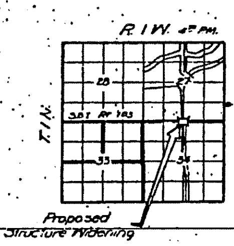
Item	Unit	Super	Sub	Total
Concrete Removal	Cu Yds		37	37
Expansion Bolts (¾ ø)	Each		322	322
Removal of Existing Superstructure	Each	1		1
Cl A Excavation for Structures	Cu Yds		280	280
Protective Coat	Sq Yds	1150		1150
Class X Concrete	Cu Yds	273.2	330.2	603.4
Structural Steel	L.S.	1		1
Stud Shear Connectors	Each	2268		2268
Reinforcement Bars	lbs	65,410	28,620	94,030
Aluminum Railing	Lin Ft	364		364
Steel Piles (10BP42)	Lin Ft		3330	3330
Test Piles Steel (10BP42)	Each		2	2
Cl B Excavation for Structures	Cu Yds		260	260
Name Plates	Each		1	1
Preformed Jt. Sealer	Lin Ft	92		92
Class A [illegible]				

WATERWAY INFORMATION

Drainage Area 25,216 Acres
Character Rolling, Cultivated and Timber
Required Opening 1540 Sq.Ft.
Provided Opening 1916 Sq.Ft.
Present Opening 1916 Sq.Ft.
Q(25) 8620 cfs

DESIGN STRESSES

f'c = 1,000 psi (Wingwall)
f'c = 1200 psi (Deck Slab)
f'c = 1400 psi (Curb, Parapet, Sub)
fs = 20,000 psi (Reinf.)
fs = 20,000 psi (Struct.)
v_c = 75 psi (Ftgs)
n = 10
Allowable ℄ Deflection L/1000
LOADING HS 20-44



LOCATION SKETCH

STA 367+83.95
REBUILT 19 BY
STATE OF ILLINOIS
F.A. RT. 47 SEC. 102BR
F.A. PROJ. F-162(1)
LOADING HS20
NAME PLATE
Std 2113-1

SBI RT. 103 (ILL 103) OVER
COAL AND CRANE CREEK
PROJ. F-162(1)
SBI RT. 103 SEC. 102 BR
SCHUYLER COUNTY
STA. 367+83.95

DESIGNED	Herbert Sung	September 23 1969
CHECKED	D. Krause	EXAMINED C.A. Thurman
DRAWN	C.E. Wilkins	PASSED
CHECKED	A.K.	APPROVED Richard H. Golterman

Revised 3-19-70 W.H.

STRUCTURE No. 4

EXISTING PLANS, SN 085-0005
VARIOUS ROUTES
D6REHAB BDGE PAINTING 2011
MONT, SANG, SCHUY COUNTIES

FOR INFORMATION ONLY