B.M.: R.R. Spike in timber bridge column. Existing Bridge 25'N. of Track - Elev. 613.20

Sta. 21+52.40 in 1935. Superstructure is R.C. slab

187'-6" Bk. to Bk. ... watertable

Contractor shall remove exist. structure, after completion of new structure.

Existing structure to be used as a detour.

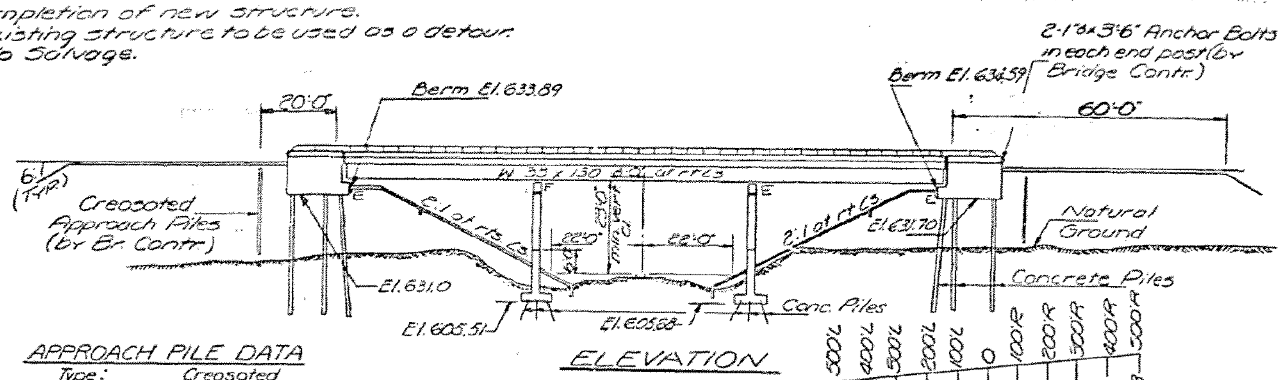
No Salvage.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.B.I. 128 F.A.	101VB-1	Shelby	23	6

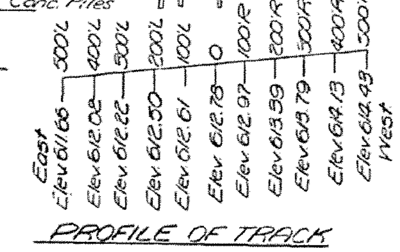
SHEET NO. 1

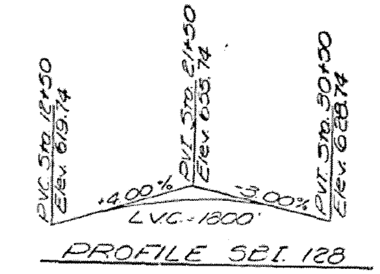
11 SHEETS



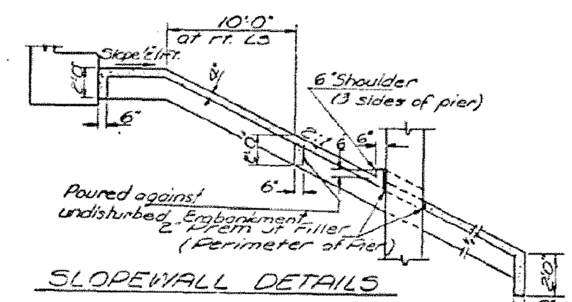
APPROACH PILE DATA

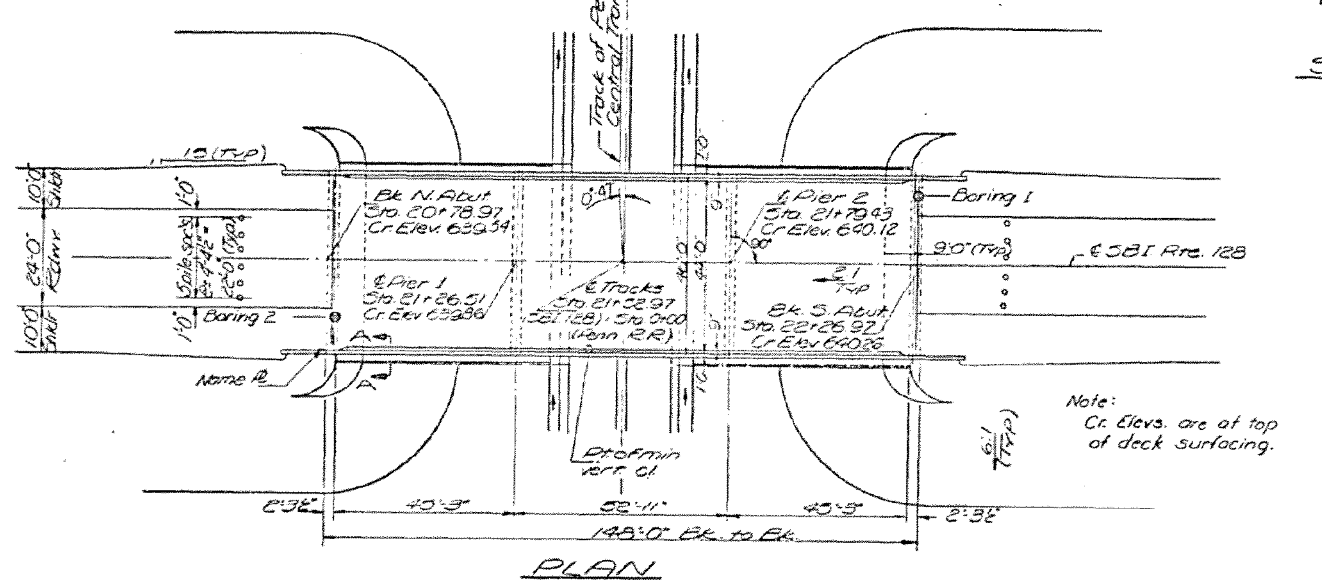
Type:	Creosoted
No. Req'd.	12
Length:	30'



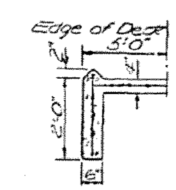


Note:
The Engineer shall determine in the field the location of the deck drains in the spans where R.R. signal and communication pole lines are involved. No deck drains shall be permitted in spans over R.R. tracks.



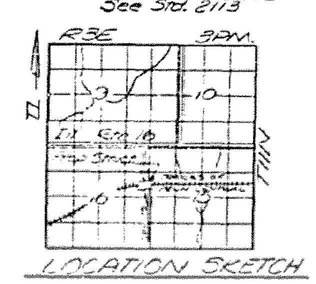


Note:
Cr. Elevs. are at top of deck surfacing.



STATION 21+52.97
BUILT 19 BY
STATE OF ILLINOIS
SBI. RT. 128 SEC. 101 VB-1
LOADING HS20

NAME PLATE
See Std. 2113



GENERAL NOTES

... Coal Tar Interlayer Protective Coat is applied.

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

Fasteners shall be high strength bolts. Bolts ¾"φ; open holes 13/16"φ unless otherwise noted.

Calculated weight of Structural Steel = 138,170 Lbs.

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 bolting diaphragms over supports.

The Contractor shall drive one concrete test pile in a permanent location at Pier 1 as directed by the Engr. before ordering the remainder of piles.

The embankment configuration shown shall be the minimum embankment that must be constructed prior to construction of the abutments

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 Conc.

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

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

Concrete piles at Abuts. shall be driven in holes pre-cored through the embankment in accordance with Article 513.09(c) of the Standard Specifications.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Structure Excavation	Cu. Yd.		135	135
Protective Coat	Sq. Yd.	130		130
Class X Concrete	Cu. Yd.	204.5	251.1	455.6
Structural Steel	L.S.	L.S.		L.S.
Aluminum Railing	Lin. Ft.	332		332
Reinforcement Bars	Pound	51,670	25,220	76,890
Concrete Piles	Lin. Ft.		2136	2136
Test Piles (Concrete)	Ea.		1	1
Name Plates	Ea.	1		1
Creosoted Piles (20.1' to 38')	Lin. Ft.		360	360
Preformed Jt. Sealer	Lin. Ft.	92		92
Removal of Existing Structure	Ea.			1
Slopewall (4")	Sq. Yd.		887	887
Bituminous Concrete Surface Course, Class I	Tons	57.7		57.7
Coal Tar Interlayer Protective Coat	Sq. Yd.	684		684

INT. BEAM MOMENT TABLE

	.4 Span 1 or 3	Pier 1 or 2	.5 Span 2
I (in⁴)	6699	6699	6699
D (k/l)	1.445	1.445	1.445
M D (ik)	215	350	157
M LL (ik)	316.0	243.4	301.7
Imp (ik)	91.7	70.6	87.5
M Total (ik)	622.7	664	546.2
fs (ks)	18.46	19.68	16.19

INTERIOR BEAM REACTION TABLE

	Abut.	Pier
R D (k)	25.3	79.5
R LL (k)	30.5	38.1
Imp (k)	8.9	11.1
R total (k)	64.7	128.7

DESIGN STRESSES

f'c = 1200 psi (Super) f'c = 1400 (Curb, Parapet & Sub)
fs = 20,000 psi (Reinf.)
fs = 20,000 psi (Struct.)
vc = 75 psi (Ftgs.)
n = 10
LL Deflection 1/1000 non-comp.
Design Specifications 1969 AASHO (as applicable)

LOADING HS20-44

DESIGNED		EXAMINED	
CHECKED	C.T.C.	PASSED	
DRAWN	A. Barroza	APPROVED	
CHECKED	C.T.C.		

GENERAL PLAN & ELEVATION

SBI RTE 128 OVER TRACKS OF PENN CENTRAL TRANSPORTATION CO.
SBI RTE 128 SEC. 101 VB-1
SHELBY COUNTY
STA. 21+52.97

• MOULTRIE & SHELBY

FILE NAME = c:\pw_work\pwidot\steffenmk\d0397056\D774683-sht-plan.dgn	USER NAME = steffenmk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	PLOT SCALE = 100.0000 ' / in.	DRAWN -	REVISED -	
	PLOT DATE = 8/4/2014	CHECKED -	REVISED -	
Default		DATE -	REVISED -	

EXISTING PLAN
S.N. 087-0021

SCALE: N/A | SHEET 4 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320 774	D7 BRIDGE PAINTING 2015-1	•	10	7

CONTRACT NO. 74683

ILLINOIS FED. AID PROJECT