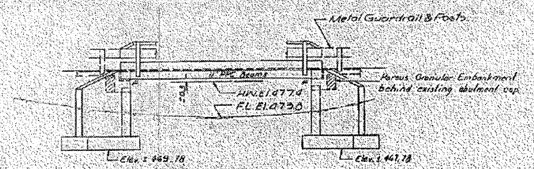
CONTRACT NO. 74107

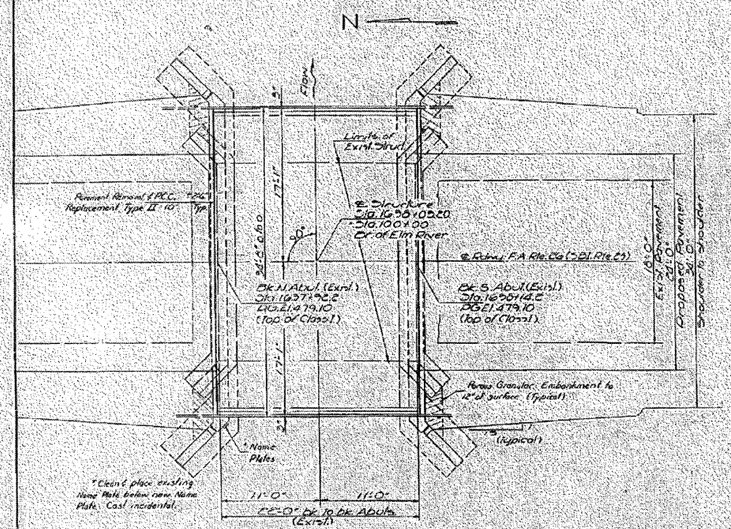
FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
328	(6BR-3)B-1	CLAY	109	43
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

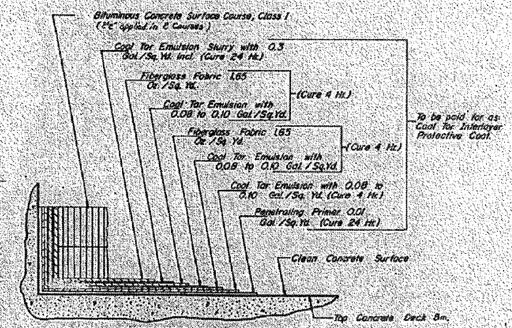
Exist. Structure: Built 1920 Sta. 16+58.05 BC 301 Route 50 Sec. 6A
Superstructure - RC Slab Substructure - RC Closed Abuts
Superstructure to be removed utilizing shoring construction
Bridge railing and posts to be salvaged.



ELEVATION



PLAN



DETAIL OF DECK SURFACING

STATION 16+58.05.20
RESULT 19 - 8X
STATE OF ILLINOIS
FA RT 26 SEC 6 BR 3
LOADING HS 20

NAME PLATE
See Sht. 21.13

					SHEET NO. 7
F.A.P. 328	6BR3	CLAY	109	43	7 SHEETS
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT			

GENERAL NOTES

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

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.

Protective Coat shall not be applied to surfaces to which Coal Tar Interlayer Protective Coat is applied.

Expansion bolts shall consist of self drilling expansion anchors and ¾"x12" hooked bolts.

The back surfaces of new abutments & wings shall be waterproofed above the tops of the footings to within 6" of the top of the wing walls.

Contractor shall complete necessary excavation for Slope Construction behind existing abutments before removing the portion of bridge slab of that location. No backfill shall be placed until the beams for the slope have been placed & dowel bars grouted. See Article 502.11 of the Standard Specifications.

TOTAL BILL OF MATERIAL

Item	Unit	Super.	Sub.	Total
Bituminous Concrete Surface Course, Class 1	Tons	10		10
Removal of Existing Superstructure	Each	1		1
Concrete Removal	Cu. Yds.		3	3
Class X Concrete	Cu. Yds.	1.5	34.3	35.8
P.C.C. Deck Beams 10"	Sq. Ft.	774		774
Steel Railing, Type 1	Lin. Ft.	45		45
Reinforcement Bars	Lbs.	60	3030	3090
Name Plates	Each	1		1
Protective Coat	Sq. Yds.	80		80
Coal Tar Interlayer Protective Coat	Sq. Yds.	86		86
Pavement Removal & P.C.C. Replacement (Type II) 10"	Sq. Yds.	13		13
Temporary Guardrail	Lin. Ft.	63		63
Expansion Bolts ¾"ø	Each		28	28
Porous Granular Embankment	Cu. Yds.		16	16
Structure Excavation	Cu. Yds.		110	110

* Bituminous Concrete Surfacing quantity is 6' beyond end of Deck Beams.

DESIGN STRESSES

FIELD UNITS
fc = 1000 psi sub
fs = 20,000 psi
n = 10
f'c = 1800 psi cont

PRECAST PRESTRESSED UNITS
f'c = 5000 psi
f'ci = 4000 psi
f'c = 20,000 psi 1/2" ø strands
f'ci = 18,700 psi 1/2" ø strands

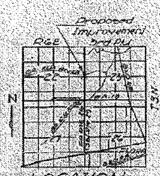
Allow 25 kip for future wearing surf.
Design Specifications
(1989) as applicable

WATERWAY INFORMATION

Drainage Area — 39.2 Acres
Character — Cultivated
Present Opening — 76.2 sq. ft.
Recommended Opening — 52 sq. ft.
Q (100) = 553 cfs.

DESIGNED	T. J. Hauck	
CHECKED	G.E. Cuquet	
DRAWN	JAS	
CHECKED	G.E.O.	

EXAMINED	J. S. Hall	1972
PASSED		
APPROVED		



LOCATION SKETCH

BRANCH OF ELM RIVER
F.A. ROUTE 26 (SBI RTE 29)
SECTION 6BR3
CLAY COUNTY
STATION 16+58.05.20

ESCA CONSULTANTS, INC.		
DESIGNED BY:	DAJ	04/08
DRAWN BY:	HAS	04/08
CHECKED BY:	MTD	05/08
APPROVED BY:	RDP	08/08

FOR INFORMATION ONLY

EXISTING STRUCTURE PLANS
US 45 OVER BRANCH OF ELM CREEK
FAP ROUTE 328 - SECTION (6BR-3)B-1
CLAY COUNTY