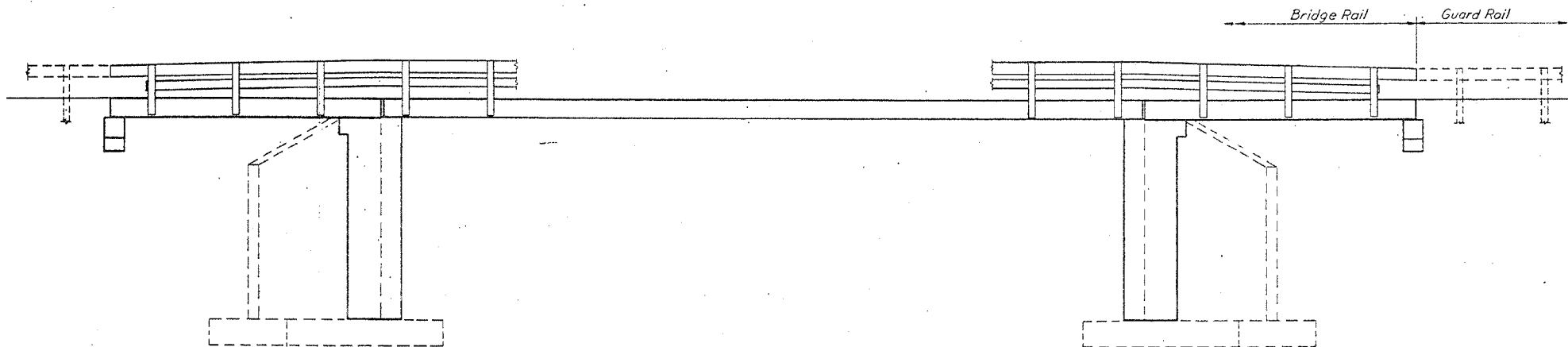


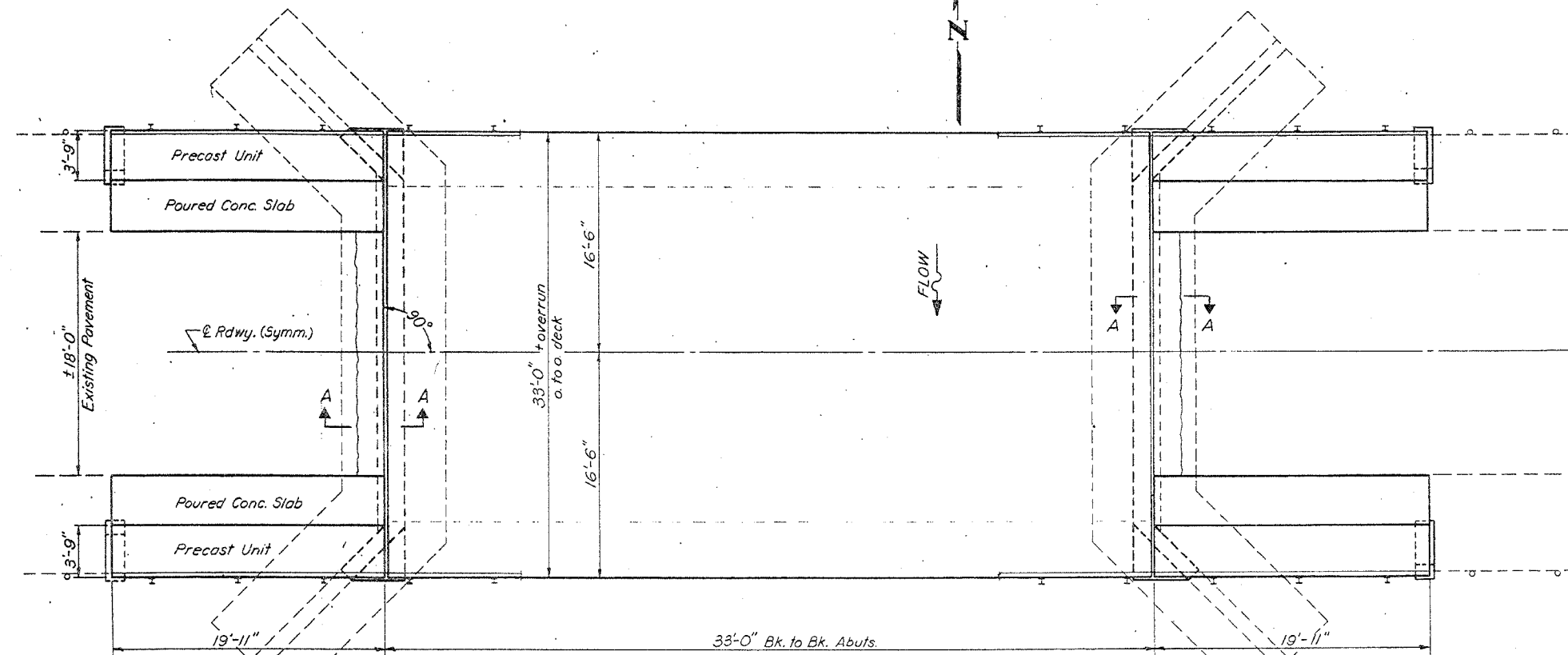
Built as S.B.I. Rt. 5, Section 22 B, Sta. 391+45, Year  
Existing Structure: R.C. Thru Girder on Closed Abutments.  
Superstructure 33'-0" long, 23'-2" wide.

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

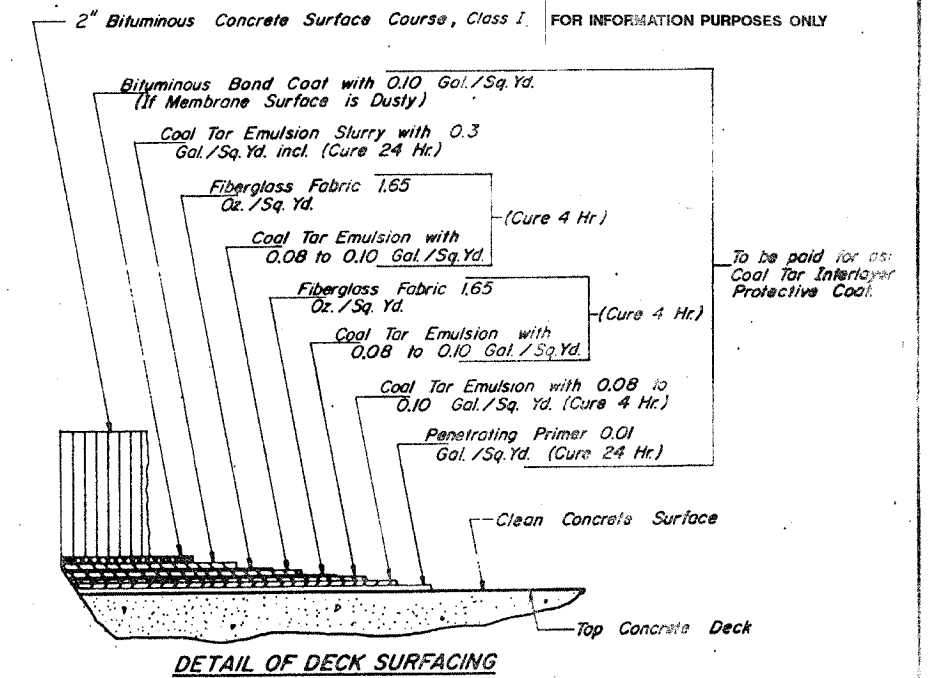
CONTRACT NO. 64B04		SHEET NO. 1	
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
301	223R-1	STEPHENSON	32
STA.	TO STA.		16
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	5 SHEETS



ELEVATION



PLAN



DETAIL OF DECK SURFACING

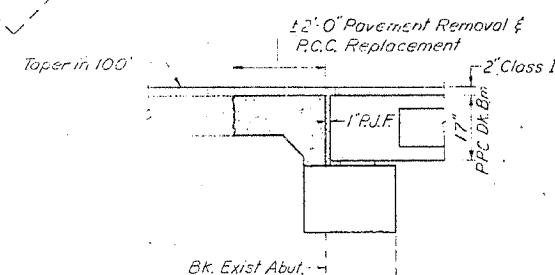
GENERAL NOTES

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.  
An alternate strand pattern using Extra High Strength Prestressing strand (270 ksi.) is permitted.  
Expansion bolts shall consist of self drilling expansion shields and 3/4" hooked bolts. Hooked bolts shall extend a minimum of 12" into new concrete.  
Any excavation shall be incidental to Bridge Contract.  
Shoulder transition to wingwall shall be shaped with broken concrete. Cost Incidental.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub.	Total
Portland Cement Concrete Pavement (10")	Sq. Yds.	33		33
Pavement Fabric	Sq. Yds.	33		33
Concrete Removal	Cu. Yds.		5	5
Expansion Bolts (3/4")	Each	52	100	152
Class X Concrete	Cu. Yds.		25.6	25.6
Precast Concrete Bridge Slab	Sq. Ft.	299		299
Precast Prestressed Concrete Deck Beams (17)	Sq. Ft.	1083		1083
Steel Railings, Type W	Lin. Ft.	138		138
Reinforcement Bars	Lbs.		970	970
Pavement Removal & P.C.C. Replacement Typ. 2(10)	Sq. Yds.			8
Removal of Existing Superstructures	Each	1		1
* Cool Tar Interlayer Protective Coat	Sq. Yds.	121		121

\* Applied Bk. to Bk. Abuts.



SECTION A-A

DESIGNED	James Pence
CHECKED	Jack Armstrong
DRAWN	J.L. Armstrong
CHECKED	JP

EXAMINED  
PASSED  
APPROVED  
August 8, 1963  
Richard H. Peterson  
CHIEF HIGHWAY ENGINEER

DESIGN STRESSES

FIELD UNITS	PRECAST PRESTR. UNITS
f <sub>c</sub> = 1400 psi. (super)	f <sub>c</sub> = 5000 psi.
f <sub>c</sub> = 1000 psi. (sub)	f <sub>c</sub> = 4000 psi.
f <sub>s</sub> = 20,000 psi. (reinf.)	f <sub>s</sub> = 248,000 psi.
v <sub>c</sub> = 75 psi. (footing)	f <sub>si</sub> = 173,600 psi.
n = 10	

LOADING HS 20-44

GENERAL PLAN & ELEVATION  
YELLOW CREEK  
S.B.I. RT. 5 (U.S. 20) SEC. 22 BR  
STEPHENSON COUNTY  
STA. 391+45