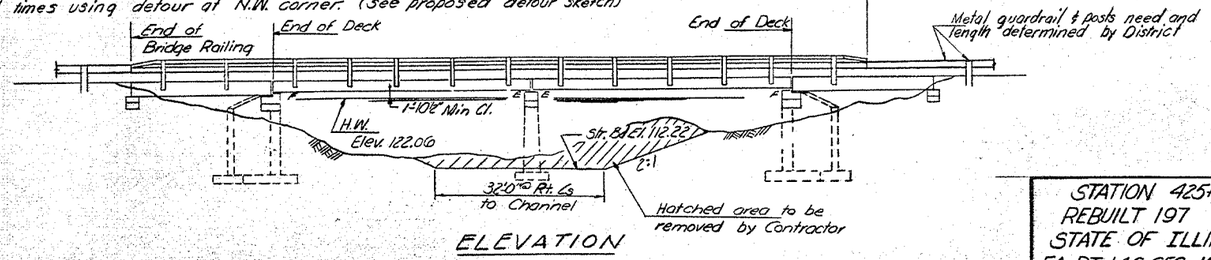
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 07	*	MARSHALL DUNNAN	59	39
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
7 SHEETS
662284

*(122, 123, 124) W7B5, 122152 & 105BR-1

BM: Top North bolt West Hubguard 12' Rt. Sta. 565+39 Elev. 122.14 on S.B.I. Rt. 89 Bridge Sta. 565+81
Existing Structure: R.C.D.G. 2 Span @ 19'-0½" each with R.C. Closed Abuts.
Built as S.B.I. Rt. 89c, Sec 105B, in 1931 @ Sta 425+08
Existing deck to be removed by contractor.
Two Bridges @ this intersection to be built one at a time & traffic to be maintained at all times using detour at N.W. corner. (see proposed detour sketch)

STATE OF ILLINOIS
[redacted]



ELEVATION

STATION 425+08
REBUILT 197 BY
STATE OF ILLINOIS
F.A. RT. 146 SEC. 105 BR-1
LOADING HS20

NAME PLATE
(See Std. 2113-1)

GENERAL NOTES

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

Shoulder transition to wingwall shall be shaped with broken concrete. Cost incidental.

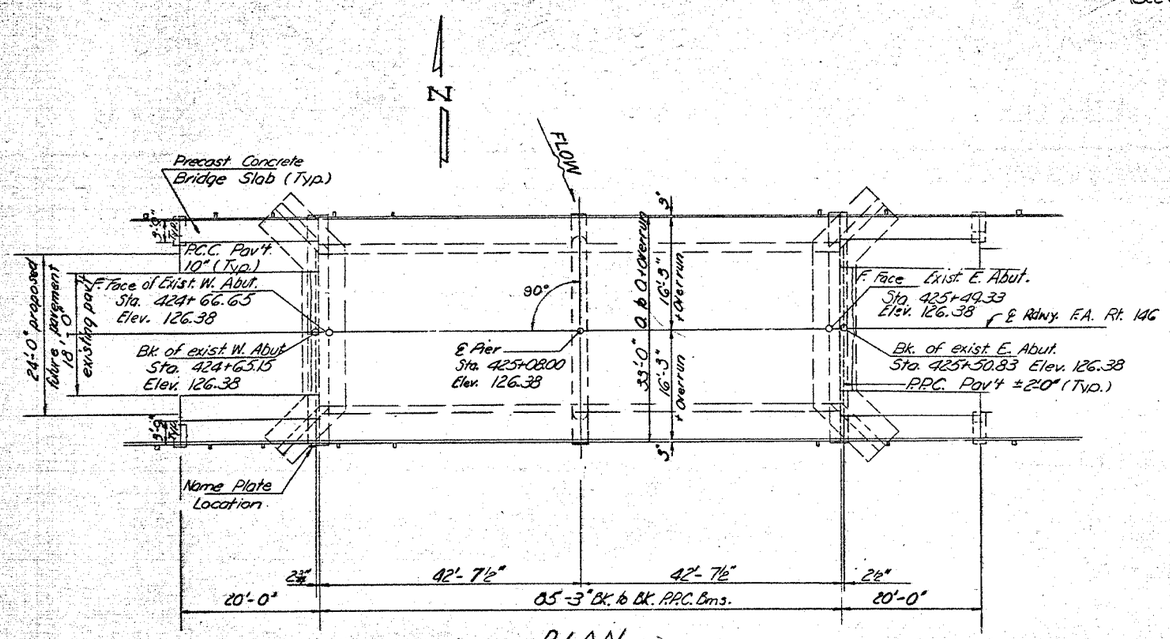
Limits of Coal Tar Interlayer Protective Coat shall be back to back of Abutments and out to out of deck.

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.

Expansion bolts shall consist of self drilling expansion anchors and ¾"φ x 12 hooked bolts.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Portland Cement Concrete Pavement (10")	Sq. Yds.			33
Pavement Fabric	Sq. Yds.			33
Removal of existing Superstructures	Each			1
Concrete Removal	Cu. Yds.		13.4	13.4
Expansion Bolts ¾" φ	Each		52	52
Class X Concrete	Cu. Yds.		31.5	31.5
Precast Concrete Bridge Slab	Sq. Ft.	300		300
Precast Prestressed Concrete Deck Beams (17)	Sq. Ft.	2811		2811
Reinforcement Bars	Pound		3040	3040
Coal Tar Interlayer Protective Coat	Sq. Yds.	313		313
Pavement Removal & P.C.C. Replacement, Type II (10")	Sq. Yds.			8
Steel Railing, Type N	Lin. Ft.	233		233
Preformed Joint Sealer 2½"	Lin. Ft.	33		33
Name Plates	Each		1	1



PLAN

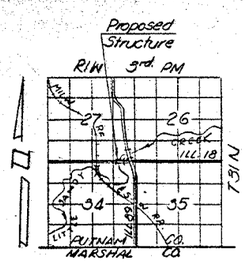
PROFILE F.A. RT. 146
(along ℄)

PRECAST PRESTRESSED UNITS

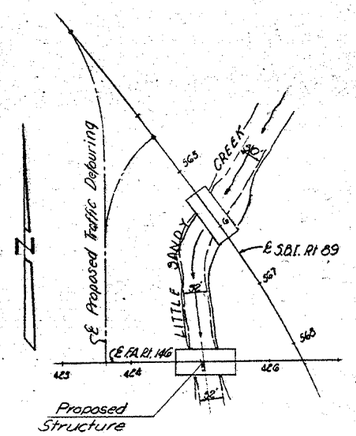
f'c = 5,000 psi
f'ci = 4,000 psi
f's = 270000 psi (Strands)
f'si = 188700 psi (Strands)

FIELD UNITS	PRECAST UNITS
fc = 1400 psi Piers	fc = 4500 psi
fc = 1000 psi Abuts.	fc = 1800 psi
Vc = 75 psi Footing	fs = 20,000 psi
fs = 20,000 psi Reinf.	n = 8
n = 10	Allow 65#/sq.ft. for Future W.S.

NEW CONSTR. LOADING HS 20-44
Design Specifications AASHO 1969 as applicable



LOCATION SKETCH



PROPOSED DETOUR & CHANNEL SKETCH

DESIGNED	Stanley S. Lin
CHECKED	Ch. Tien Chen
DRAWN	R. Doty
CHECKED	S.L. C.T.C.

January 27 1971
EXAMINED [signature] ENGINEER OF BRIDGES AND TRAFFIC STRUCTURES
PASSED [signature] ENGINEER OF DESIGN
APPROVED Richard H. Hoeferman CHIEF HIGHWAY ENGINEER

GENERAL PLAN AND ELEVATION

F.A. RT. 146 SEC. 105 BR-1
PUTNAM COUNTY
STA. 425+08.00

010.13