

FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	102X-BR-2	McLEAN	44	30
STA. TO STA.				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	

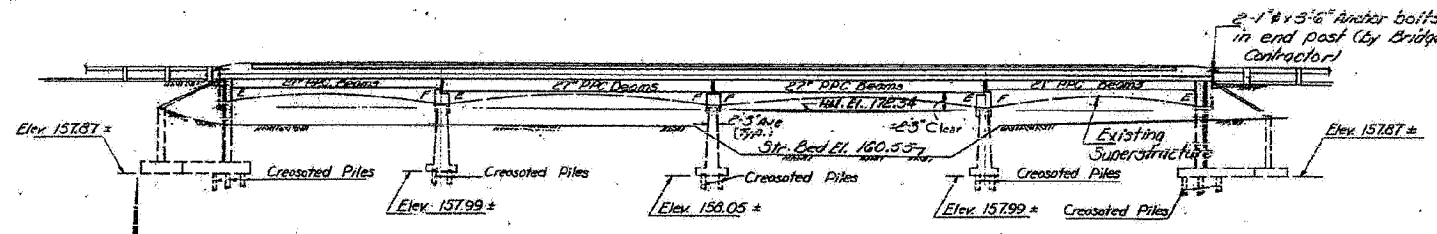
05.20

B.M.: #100 'D' on S.E. Kingwall of Bridge 15, Rt. Sta. 61800 (proposed)
 Elev. 177.27
 Existing Structure
 Sta. 617+15; Built as SBI Rt. 119, Sec 102 X-B-NPH, in 1936
 Existing R.C. Deck Girder Bridge 27 1/2' width to be removed and replaced with P.R.C. Bms.

DATE	BY	NO.	REV.	SHEET NO. /
11-9	McLEAN	153	39	9 SHEETS

TOTAL BILL OF MATERIAL

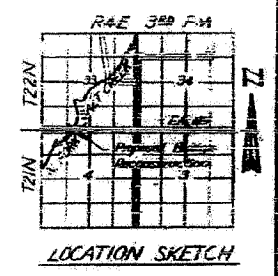
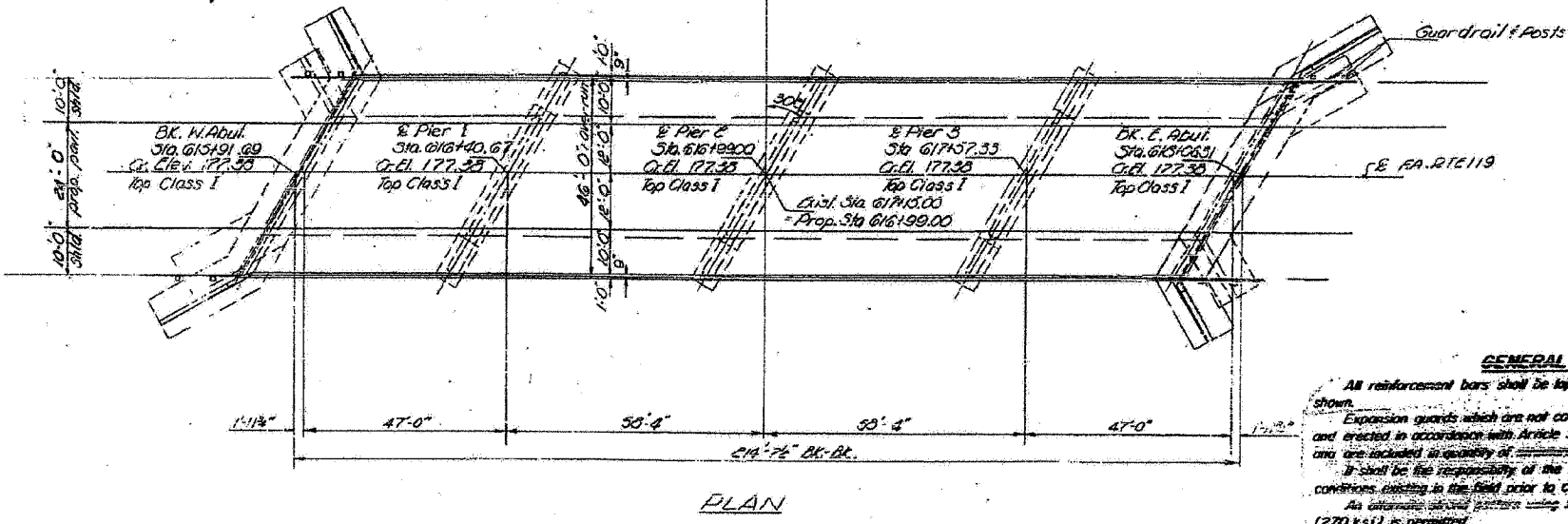
ITEM	UNIT	SUPER	SUB	TOTAL	ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Ea.			1	P.R.C. Bridge Deck (27')	Sq. Ft.	5239		5239
Concrete Removal	Cu Yds.		39	39	Aluminum Railing	Lin. Ft.	583		583
Bit Conc. Sur. Cse. Class I	Tons	110		110	Reinforcement Bars	Lbs.	4970	27700	32670
Cool Tar Interlayer Protective Coat	Sq. Yds.	1000		1000	Crested Piles (up to 20')	Lin. Ft.	1408		1408
Expansion Bolts (3/4")	Ea.		336	336	Test Piles (Number)	Ea.		2	2
Expansion Bolts (1/2")	Ea.		40	40	Name Plates	Ea.	1		1
Structure Excavation	Cu Yds.		1040	1040	Preformed Joint Sealer	Lin. Ft.	212		212
Protective Coat	Sq. Yds.	155		155	Channel Excavation	Cu Yds.			255
Class A Concrete	Cu Yds.		153.4	153.4					
Class X Concrete	Cu Yds.		476	476					
Structural Steel	Lbs.		2720	2720					
P.R.C. Bridge Deck (27')	Sq. Ft.		4204	4204					



STATION 616+99
 REBUILT BY
 STATE OF ILLINOIS
 F.A. RTE 119 SEC. 102X-BR
 PROJ. F-219(1)
 LOADING HS20
NAME PLATE
 See Sta. 213-1

WATERWAY INFORMATION

Drainage Area	61.05	Sq. Mi.
Required Opening (50 yr. flood)	158.5	Sq. Ft.
Present Opening	127.5	Sq. Ft.
Proposed Opening	158.5	Sq. Ft.
Ordinary Water Elev.	169.2	
Low Water Elev.		
Q =	704.3	CFS



GENERAL NOTES

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

Expansion guards which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07 (c) of the Standard Specifications and are included in quantity of _____ steel.

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 _____ High Strength Prestranding strand (270 ksi) is permitted.

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

The concrete rail section above the top of the P.R.C. Deck Beams shall be constructed of class X concrete, except the aggregates shall conform to the requirements of Handrail concrete.

The contractor shall drive two test piles in the permanent locations, one at E. Abut. and one at pier 2 as directed by the engineer before ordering the remainder of piles.

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



DESIGN STRESSES

FIELD UNITS PRESTR. PRECAST UNITS

$f_c = 1400$ psi (Curb, Parapet) $f_c = 5000$ psi
 $f_c = 1000$ psi (Sub.) $f_t = 4000$ psi
 $f_c = 75$ psi Footing $f_s = 245,000$ psi (Strands 1/2")
 $f_s = 20,000$ psi Reinf. $f_s = 175,000$ psi (Strands 3/8")
 $n = 10$
 $f_s = 29,000$ psi Structural
 Loading HS 20-44

DESIGNED: *W. H. H.*
 CHECKED: *R. D. B.*
 DRAWN: *H. D. M.*
 EXAMINED: *W. H. H.*
 DATE: SEPTEMBER 1, 1970

PROJ. F-219(1)
 F.A. RTE. 119 OVER NORTH FORK SALT CREEK
 SEC. 102X-BR
 McLEAN COUNTY
 STATION 617+15.00 EXISTING
 STATION 616+99.00 PROPOSED