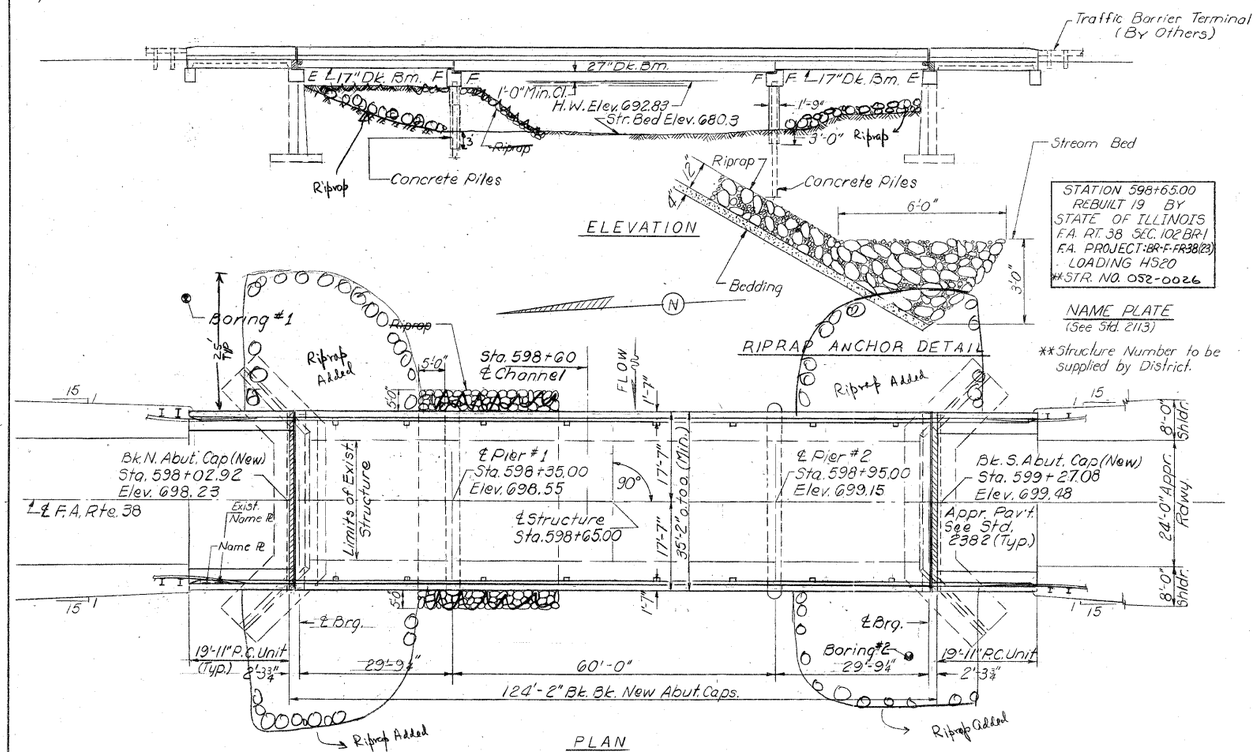
EXISTING STRUCTURE PLANS
(FOR REFERENCE ONLY)

B.M. Chiseled square on S.W. wingwall of bridge 15' Rt. Sta. 602+56 Elev. 695.49
Existing Structure #052-0026 Built as S.B.I. Rt. 26, Sec. 102 B & C, at Sta. 598+65 in the year 1927. The existing 120'-0" long by 23'-2" wide steel truss shall be removed and the existing R.C. closed Abuts. rebuilt and two new concrete enclosed pile bent piers built to accommodate a new P.P.C. Deck Beam Superstructure. Traffic shall be detoured.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



PLAN

+0.99% Grade
Sta. Increase
Sta. 597+59
Elev. 697.80

PROPOSED PROFILE GRADE

DESIGNED	Jeffrey Romanus
CHECKED	M. Ryan
DRAWN	R. Doty
CHECKED	MR

FEBRUARY 28 1981
EXAMINED — BUREAU OF BRIDGES AND TRAFFIC STRUCTURES
PASSED — ENGINEER OF BRIDGES
APPROVED — DIRECTOR OF HIGHWAYS

WATERWAY INFORMATION

Drainage Area 235 Sq. Mi. Low Grade Elev. @ Sta.

Flood	Freq. Yrs.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head Ft. Exist.	Head Ft. Prop.	Headwater El. Exist	Headwater El. Prop.
Design	50	6400 / 3200	990	990	693.83	0	0	693.83	693.83
Base	100	7850 / 3700*	990	990	693.3	0	0	693.3	693.3
Max. Calc.	500	9135 / 4600*	990	990	693.3+	0	0	693.3+	693.3+

*Estimated Discharges.
Note: Proposed Opening over the Green River is one opening of a total of (8) located in the Green River floodplain. A total opening 1328 Sq. Ft. is provided below design Highwater.

DESIGN STRESSES

FIELD UNITS	PRECAST UNITS
f'c = 3500 p.s.i.	f'c = 4500 p.s.i.
fy = 60,000 p.s.i. (Reinf.)	f'c = 1,800 p.s.i.
fs = 20,000 p.s.i. (Struct.)	fs = 20,000 p.s.i.

PRECAST PRESTRESSED UNITS
f'c = 5000 p.s.i.
f'ci = 4000 p.s.i.
fs = 270,000 p.s.i. (½" ϕ Strands)
f'si = 189,000 p.s.i. (½" ϕ Strands)
Design Specifications 1977 AASHTO
1978, 1979 & 1980 Interim Specs. as applicable
Allow 25 #/sq. ft. for future Wearing Surface
LOADING HS20-44 (New Structure)

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.P. 38	102 BR-1	LEE	61	15
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT-		

SHEET NO. 1
13 SHEETS

GENERAL NOTES

Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53 Grade 60.

See Proposal for Boring Data.

All structural steel shall be shop painted with two coats of basic lead silica chromate paint.

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 structural steel.

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

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The top surface of the beams shall be finished in accordance with Article 505.06 of the Standard Specifications except that the surface shall not be roughened by brooming. The finished surface shall be free of depressions or high spots with sharp corners, and the top edge of keys shall be rounded or chamfered a minimum of ¼".

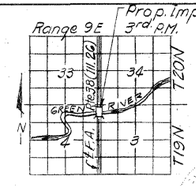
Limits of Waterproofing Membrane System shall be from toe to toe of parapets and end to end of deck beams.

Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.

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

TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Bituminous Concrete Surface Course, Class I	Tons	50		50
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		18	18
Structure Excavation	Cu. Yd.		83	83
~~Stone Riprap~~ FORCE ACCT.	~~Sq. Yd.~~		~~440~~	~~440~~
Protective Coat	Sq. Yd.	130		130
Class X Concrete	Cu. Yd.	42.4	110.9	153.3
Precast Concrete Bridge Slab	Sq. Ft.	299		299
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	2122		2122
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	2097		2097
Structural Steel	Pound	4620		4620
Reinforcement Bars	Pound	4200	9150	13350
Reinforcement Bars (Epoxy Coated)	Pound	1480		1480
Concrete Piles	Lin. Ft.		563	563
Test Piles Concrete	Each		1	1
Name Plates	Each	1		1
Preformed Joint Seal 2½"	Lin. Ft.	70		70
Portland Cement Mortar Fairing Course	Lin. Ft.	1085		1085
Waterproofing Membrane System	Sq. Yd.	429		429



LOCATION PLAN

GENERAL PLAN
F.A. RTE. 38 OVER GREEN RIVER
F.A. RTE. 38 (ILL. RT. 26) SEC. 102 BR-1
LEE COUNTY
STA. 598+65.00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
316	*	LEE	216	134
		CONTRACT NO. 64D57		
		ILLINOIS FED. AID PROJECT		

* 102BR-5, 102BR-6, & 102BR-7