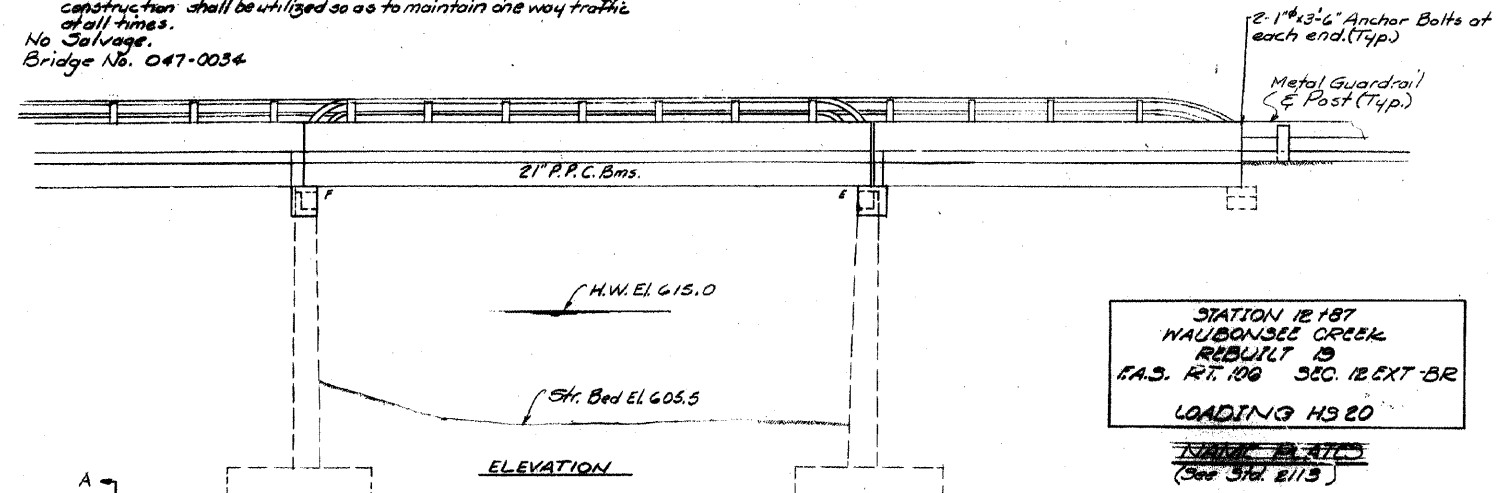


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAU 2503	(35)BR-2	KENDALL	129	50
FED. ROAD DIST. NO.	5	FULL PROJ. NO.	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

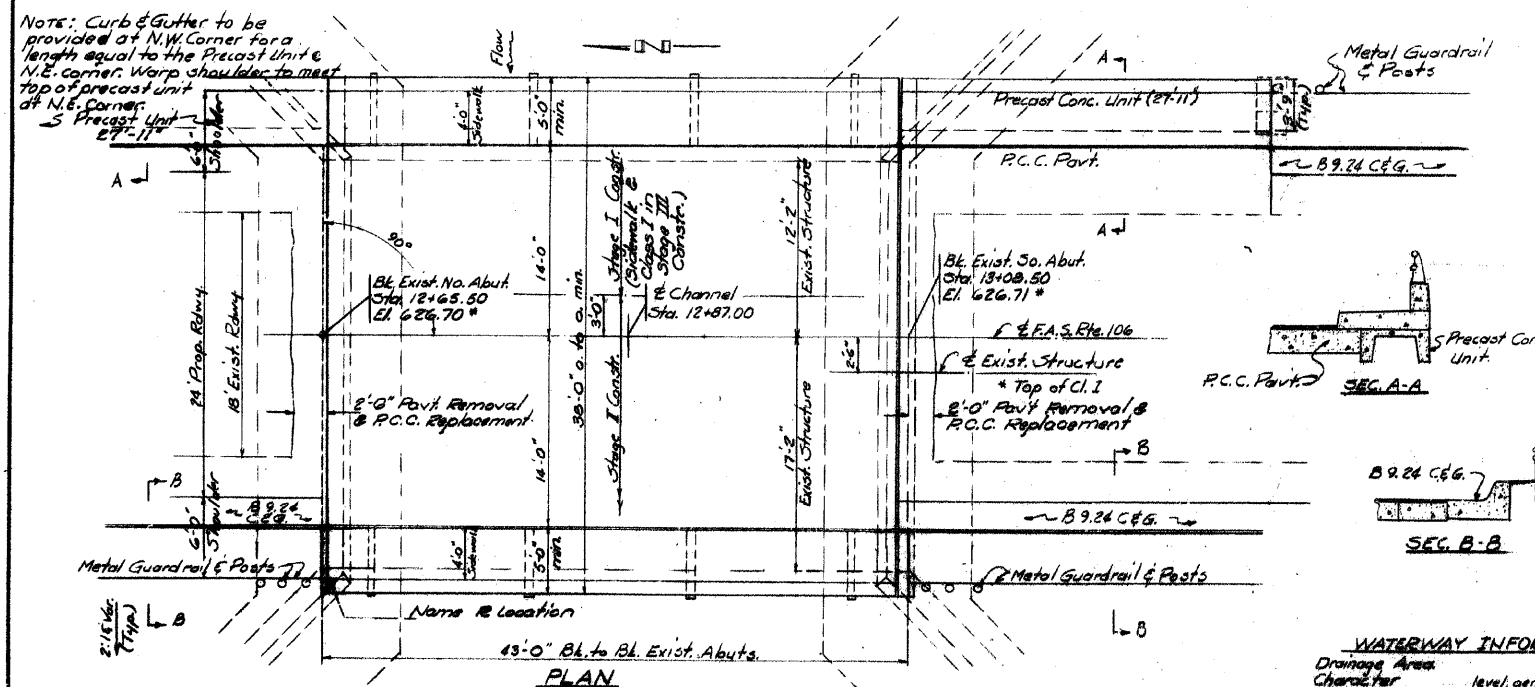
B.M. #A - Chiseled 'U' on N.W. side of conc. base for Mobil gas station sign in S.E. Quad. of U.S. Rte. 34 & Jefferson St. E.L. 640.91.
Existing Structure: Built as S.B.I. Rte. 106, Sec. 12 EXT. at Sta. 12+87 in the year 1924. Existing R.C. Deck Girder superstr. to be removed & existing closed abutts. subst. to be rebuilt as required to accommodate new widened P.C. Deck Bms. superstr. Stage construction shall be utilized so as to maintain one way traffic at all times.
No Salvage.
Bridge No. 047-0054

DESIGN NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2503	(35)BR-2	KENDALL	129	50
FED. ROAD DIST. NO.	5	FULL PROJ. NO.	FED. AID PROJECT	



STATION 12+87
WAUBONSEE CREEK
REBUILT 10
F.A.S. RT. 106 SEC. 12 EXT BR
LOADING HS 20
NADIR PLATES
(See Std. 2113)

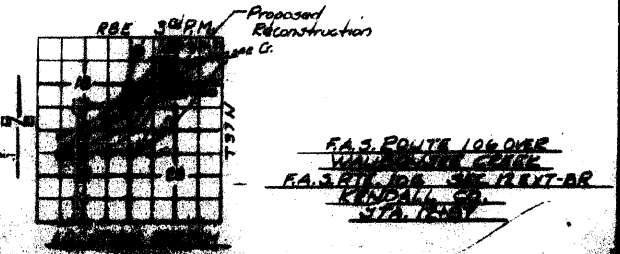
GENERAL NOTES
All reinforcement bars shall be lapped 24 diameters unless otherwise shown.
All structural steel shall be shop painted with two coats of basic lead silice chromate paint.
Expansion guards which are not cast in the precast unit shall be fabricated and erected in accordance with Article 503.07 (c) of the Standard Specifications and are included in quantity of structural steel.
The contractor shall be responsible for all castings to verify all dimensions and tolerances relating to the field prior to construction and ordering of materials.
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.
The concrete rail section above the mandatory construction joint at the top of the spans shall be constructed of Class X Concrete, except the aggregates shall conform to the requirements of Mendota Concrete.
Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.



TOTAL BILL OF MATERIAL

Item	Unit	Quantity	Unit Price	Total
Bituminous Concrete Surface Course, Class 1	Sq. Yds.	100	1.50	150.00
Portland Cement Concrete Pavement (12")	Sq. Yds.	100	2.50	250.00
Pavement Fabric	Sq. Yds.	100	0.50	50.00
Concrete Removal	Cu. Yds.	100	1.00	100.00
Expansion Bolts (1/2")	Each	100	0.20	20.00
Class X Concrete	Cu. Yds.	100	3.00	300.00
Precast Concrete Bridge Slab	Sq. Ft.	100	1.00	100.00
Precast Reinforced Concrete Deck Slabs (12")	Sq. Ft.	100	1.00	100.00
Reinforcement Bars	Lbs.	100	1.00	100.00
Pavement Reinforced P.C. Placement, Type 2 (12")	Sq. Yds.	100	2.50	250.00
Reinforced Concrete Superstructure	Each	100	1.00	100.00
Waterproofing Membrane System	Sq. Yds.	100	1.50	150.00

WATERWAY INFORMATION
Drainage Area: 34 sq. mi.
Character: level, gentle rolling, clay
Required Opening (50 yr): 363 sq. ft.
Present C. width: 363 sq. ft.
Proposed Opening: 363 sq. ft.
Ordinary Water El. 605.0
Low Water El. 605.4
Q₁₀₀ = 2738 c.f.s.
Q₁₀ = 3385 c.f.s.
H.W. El. (100) = 615.0
H.W. El. (10) = 615.0



DESIGNED: J.F. Edr...
CHECKED: J.S. Scheller
DRAWN: J.S. Scheller
APPROVED: J.S. Scheller

DESIGN STRESSES
Precast Units
f_c = 4500 p.s.i.
f_t = 1800 p.s.i.
f_s = 20,000 p.s.i.
γ = 1.5
Field Units
f_c = 1400 (super & sub)
f_t = 20,000 p.s.i. (reinf)
f_s = 75 p.s.i. footing
γ = 1.0
Precast Prest. Conc. Units
f_c = 5000 p.s.i.
f_t = 4000 p.s.i.
f_s = 270,000 p.s.i.
f_s = 180,000 p.s.i.

HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 546-3400
ELGIN • SPRINGFIELD
PROJECT NUMBER: 12-06-0029-1 DATE: 12/13/07
DESIGNED: CHECKED: DRAWN:

EXISTING BRIDGE PLANS
SECTION (35) BR-2
IL 25 OVER WAUBONSEE CREEK
KENDALL COUNTY