FOR INFORMATION ONLY

B.M. Chiseled "□" on top of North Abutment West side of bridge at station 79+50 Elev. 660.14

Existing Structure No. 010-0113 Built as S.A. Rte. 15 Section 94-B-15D at Station 79+50 in 1939. The existing R.C. Deck on steel I Beams Superstructure shall be removed and replaced with a new PPC Deck Beams Superstructure. The closed abutments and solid pier substructure shall be rebuilt to accomodate the new widened superstructure. Stage Construction shall be utilized so as to maintain one way traffic. Width of existing structure = 27'-4"

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A. 808	94 BR	Champaign	20	9
FED. ROAD DIST. NO. 5	ILLINOIS	FED. AID PROJECT		

SHEET NO. 1
10 SHEETS

GENERAL NOTES

Reinforcement bars in the substructure shall conform to the requirements of AASHTO M 31 or M53, Grade 60.

All structural steel shall be shop painted with two coats of basic lead silico 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.

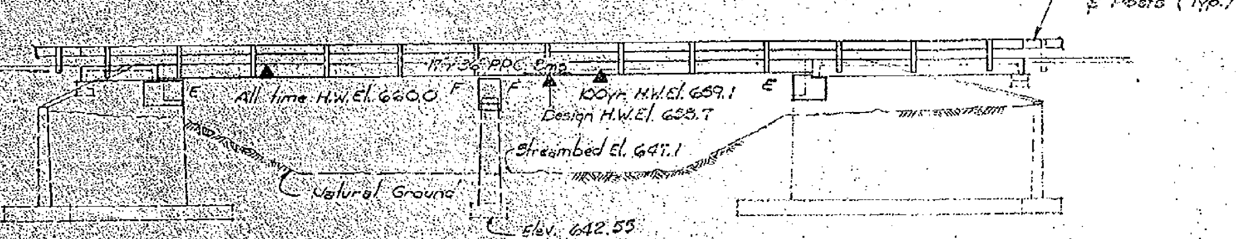
It shall be the responsibility of the Contractor to verify all dimensions and conditions existing in the field prior to construction and ordering of materials.

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.

Limits of Waterproofing Membrane System shall be end to end and out to out of deck.

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

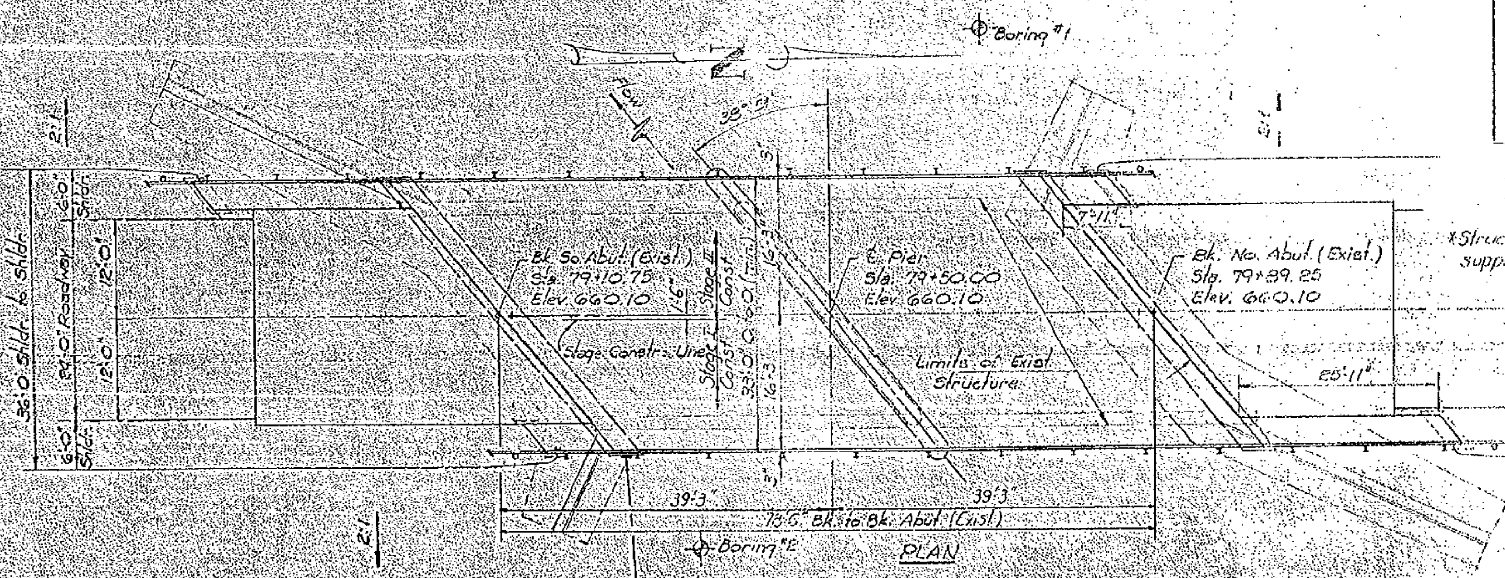
Traffic shall be maintained by utilizing stage construction and temporary bridge rail.



STATION 79+50.00
REBUILT 19 BY
STATE OF ILLINOIS
F.A. RT. 808 SEC. 94-BR
PROJECT F-808(4)
LOADING HS20
*STR. NO.

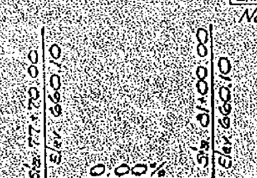
NAME PLATE
(See Std. 2(13))

*Structure Number to be supplied by District.



TOTAL BILL OF MATERIAL

Item	Unit	Super	Sub	Total
Removal of Existing Superstructures	Each			1
Concrete Removal	Cu.Yd.		22	22
Bituminous Concrete Surface Course, Class I	Tons	35		35
Precast Concrete Bridge Slab	Sq.Ft.	253		253
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq.Ft.	2467		2467
Portland Cement Mortar Fairing Course	Lin.Ft.	747		747
Class X Concrete	Cu.Yd.	7.7	38.4	46.1
Reinforcement Bars	Pound	280	5110	5390
Waterproofing Membrane System	Sq.Yd.	282		282
Structural Steel	Pound	6020		6020
Steel Railing, Type "S"	Lin.Ft.	223		223
Preformed Joint Sealer (2¾")	Lin.Ft.	86		86
Temporary Bridge Rail	Lin.Ft.	79		79
Name Plates	Each		1	1



PROFILE GRADE F.A. Rte. 808

DESIGN STRESSES

PRECAST PRESTRESSED UNITS

f'c = 5,000 psi
f'ci = 4,000 psi
f's = 270,000 psi (½" ⌀ Strands)
f'si = 189,000 psi (½" ⌀ Strands)

FIELD UNITS

f'c = 3,500 psi
fs = 60,000 psi

PRECAST UNITS

f'c = 4,500 psi fc = 1,800 psi
fs = 20,000 psi

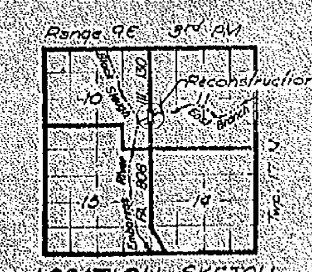
LOADING HS 20-44 (Superstructure)

Design Specifications 1977 AASHTO, 1978 Interim Specifications.

Allow 25#/sq.ft. for future wearing surface.

WATERWAY INFORMATION

Drainage Area	= 40 sq. miles
Design Discharge (50 yr.)	= 2842 c.f.s.
Existing Opening (Below 50 yr. H.W.E.)	= 472 sq.ft.
Required Opening	= 472 sq.ft.
Proposed Opening	= 472 sq.ft.
Created Head for Design Flood	= 0.29'
100 yr. Discharge	= 3232 c.f.s.
Design H.W.Elev. = 658.7 100 yr. H.W.Elev.	= 659.1
All time H.W.Elev.	= 660.0
Created Head For 100 yr. Flood	= 0.30'



LOCATION SKETCH

GENERAL PLAN & ELEVATION
F.A. Rte. 808 OVER EAST BRANCH EMBARRAS RIVER
F.A. Rte. 808 SECTION 94-BR
CHAMPAIGN COUNTY
Sta. 79+50.00

DESIGNED	M.J. RYANN
CHECKED	German Romano
DRAWN	R. Daly
CHECKED	GR

EXAMINED February 8 1979
PASSED
APPROVED

Revised 4-2-79

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HR HURST-ROSCHE ENGINEERS, INC.
HURST-ROSCHE ENGINEERS, INC.
HILLSBORO, ILLINOIS 62049
(217)532-3959 FAX (217)532-3212

FILE NAME =	USER NAME = keysrb	DESIGNED -	REVISED -
c:\pw_work\pwidot\keysrb\d0270790\D570582-sht-detail_GPE1.dgn		DRAWN -	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 6/2/2011	DATE - 5-13-11	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLAN

SCALE: NONE | SHEET NO. 1 OF 4 SHEETS | STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
808	94BR-1	CHAMPAIGN	50	41

CONTRACT NO. 70582

FED. ROAD DIST. NO. 5 | ILLINOIS | FED. AID PROJECT