

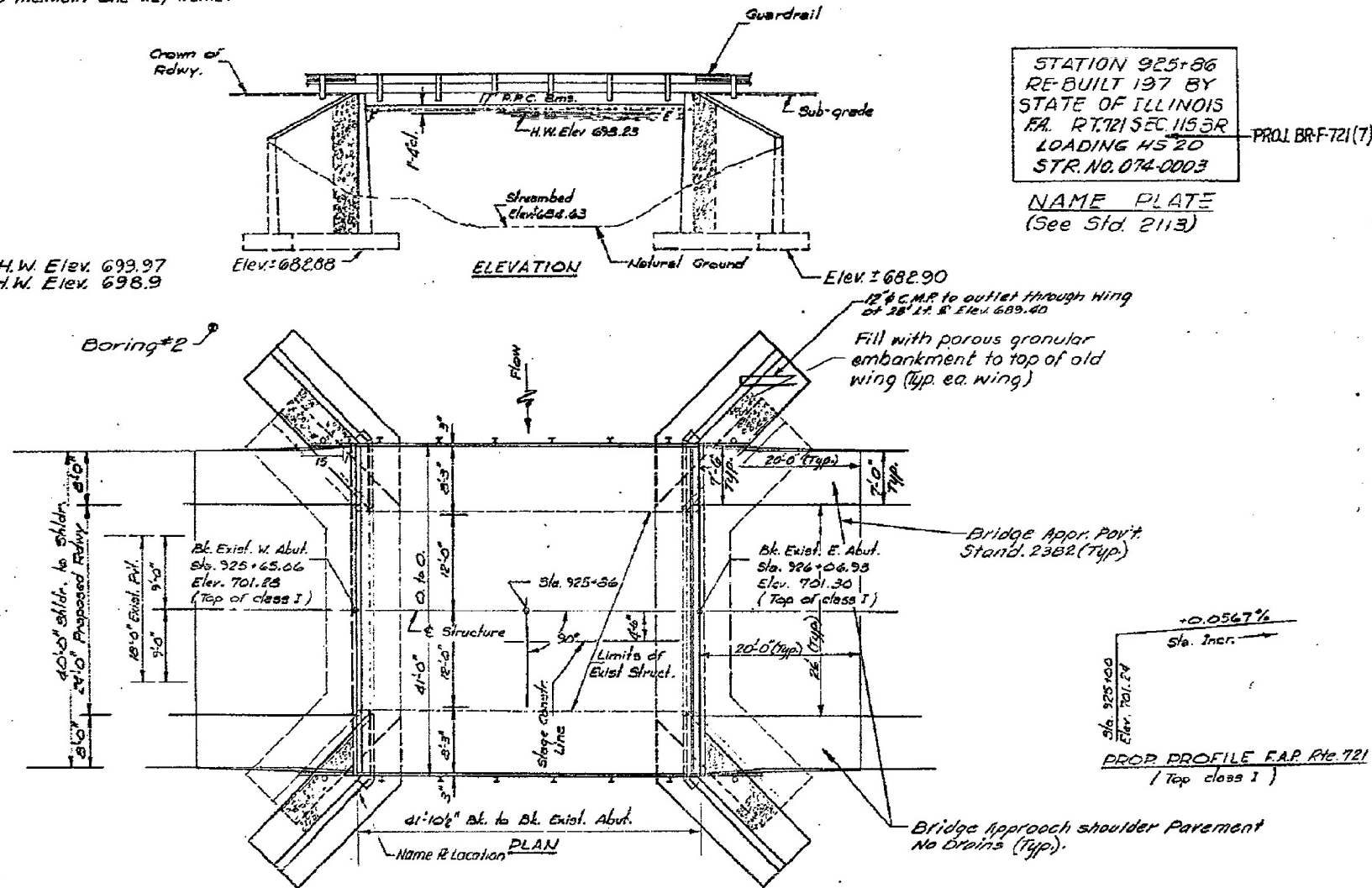
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS	SHEET NO.
074-0003	115 BR	PIATT	20	10

BM #2 chiseled on SW hubward 11.41' Pl. Sta 925+64.95
Elevation 701.57
Existing Structure: #074-0003 Built as S.A.I. Rte. 120,
Section 115 B at Sta. 925+86 in 1951. The existing
R.C. Deck on steel I Bms. Superstructure shall be
removed and replaced with a new PPC Deck Bms.
superstructure. The existing closed abutment
substructure shall be rebuilt to accommodate the new
widened superstructure. Stage construction shall be
utilized so as to maintain one way traffic.

No Salvage.

All time H.W. Elev. 699.97
100 Yr. H.W. Elev. 698.9



STATION 925+86
RE-BUILT 197 BY
STATE OF ILLINOIS
FA. RT121 SEC 115 BR
LOADING HS 20
STR. NO. 074-0003
NAME PLATE
(See Std. 2113)

GENERAL NOTES

- 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 503.06 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.
- Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
- Expansion bolts shall consist of self drilling expansion anchors and 1/4" x 12" hooked bolts.
- 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.
- Back surfaces of new abutment wall and wingwalls shall be waterproofed above the tops of the footings. See Special Provisions for Boring Data.
- Reinforcement bars shall conform to the requirements of AASHTO M-31 or M-53, Grade 60 unless otherwise noted.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Structural Steel	Lbs	2831		2831
Class 4 Concrete	Cu Yds	0.2	14.7	14.9
Preformed Joint Sealer (2")	Lin. Ft	41		41
Structure Excavation	Cu Yds		4.70	4.70
Reinforcement Bars	Lbs	150	15,570	15,720
Concrete Removal	Cu Yds		14	14
Expansion Bolts (1/4")	Each		159	159
Steel Railing, Type S	Lin. Ft	85		85
Temporary Bridgerail	Lin. Ft	43		43
Name Plate	Each		1	1
Removal of Exist. Superstr.	Each	1		1
Precast Prest. Conc. Deck Bms (7")	Sq. Ft	1733		1733
Waterproofing Membrane Syst.	Sq Yds	204		204
Fin. Concrete Surf. (See C.I.)	Tons	25.7		25.7
Portland Cement Mortar	Lin. Ft	507		507
Fairing Course	Ft			
Porous Granular Embankment	Tons		215	215
Threaded Rods 3/8"	Each		26	26

* Pavement Removal is incidental to this item.

GENERAL PLAN & ELEVATION
F.A.P. Rte. 721 Over GOOSE CREEK
F.A.P. Rte. 721 SECTION 115 BR
PIATT COUNTY
STATION 925+86

WATERWAY INFORMATION

Drainage Area	19 sq. mi
Character - Level, Cultivated	
Required Opening (50yr.)	440 sq. ft.
Present Opening	440 sq. ft.
Proposed Opening	440 sq. ft.
H.W. Elev. (50 yr.)	698.23
Q (50 yr.)	2067 c.f.s.
Created Head (50yr.)	0.25 ft.
H.W. Elev. (100 yr.)	698.90
Q (100 yr.)	2554 c.f.s.
Created Head (100 yr.)	0.58 ft.

DESIGN STRESSES
FIELD UNITS

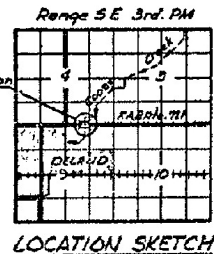
- f_c = 3,500 psi Sub-struct.
- f_y = 60,000 psi Reinf.
- f_s = 20,000 psi (struct.)

PRECAST PRESTRESSES UNITS

- f_c = 5000 psi
- f_{cl} = 4000 psi
- f_s = 270,000 (2# strands)
- f_{si} = 189,000 (12# strands)

LOADING HS 20-44 (New Constn)

Allow 25'/* for future Wearing Surface
Design Specification: 1973 AASHTO, 1974 and 1975
Interim Specification.



DESIGNED	[Signature]
CHECKED	[Signature]
DRAWN	F.M.
CHECKED	[Signature]

EXAMINED	[Signature]
PASSED	[Signature]
APPROVED	[Signature]

UPDATED 1-29-79 EAS - REA TYPE 5 RAIL CLASS I 1/2" STRANDS REV. 5/11/79 EAS (Bridge Appr.)

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AS BUILT GP&E SHEET (1979)
STRUCTURE NO. 074-0003

SHEET NO. 18 OF 18 SHEETS

CB Coombe-Bloxdorf P.C.
- CIVIL ENGINEERS -
- STRUCTURAL ENGINEERS -
- LAND SURVEYORS -
Design Firm License No. 184-002703

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
721	(115BR)BR	PIATT	39	29

CONTRACT NO. 70432
ILLINOIS FED. AID PROJECT

FILE NAME =	USER NAME = grozianoja	DESIGNED -	REVISED -
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PLOT DATE = 10/25/2013		CHECKED -	REVISED -