

Existing Structure- S.N. 029-0026 was originally built in 1928 and rebuilt in 1978 as S.B.I. RTE 95, section 128-BR at Sta. 468+53.4. The structure consists of simple span PPC-deck beams on closed abutments on pile supported footings. The bk. to bk. abutment length is 31'-7 1/8" and the out to out bridge width is 42'-0". The existing superstructure is to be removed and replaced. Stage construction shall be used during construction.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET
F.A.P. 622	(128BR)I	FULTON	19	10
FED. ROAD DIST. NO. 7	ILLINOIS	FED. AID PROJECT		

SHEET NO. 1
10 SHEETS

Contract #68483

GENERAL NOTES

Salvage- No Salvage

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications - 17th ed.

LOADING HS20-44

Allow 50#/Sq. Ft. for Future Wearing Surface

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
f'c = 5,000 psi (Concrete Wearing Surface)
fy = 60,000 psi (reinforcement)

PRECAST PRESTRESSED UNITS

f'c = 5,000 psi
f'ci = 4,000 psi
f's = 270,000 psi (1/2" φ Low Relaxation Strands)
f'si = 201,960 psi (1/2" φ Low Relaxation Strands)

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 for the work.

All construction joints shall be bonded. The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to the exterior face and 9" in on the underside of the fascia beams. The sealer shall be performed by the producer and included with the cost of the beam.

The minimum thickness of the Concrete overlay shall be 5" and varies as required to adjust for the new profile grade and beam camber.

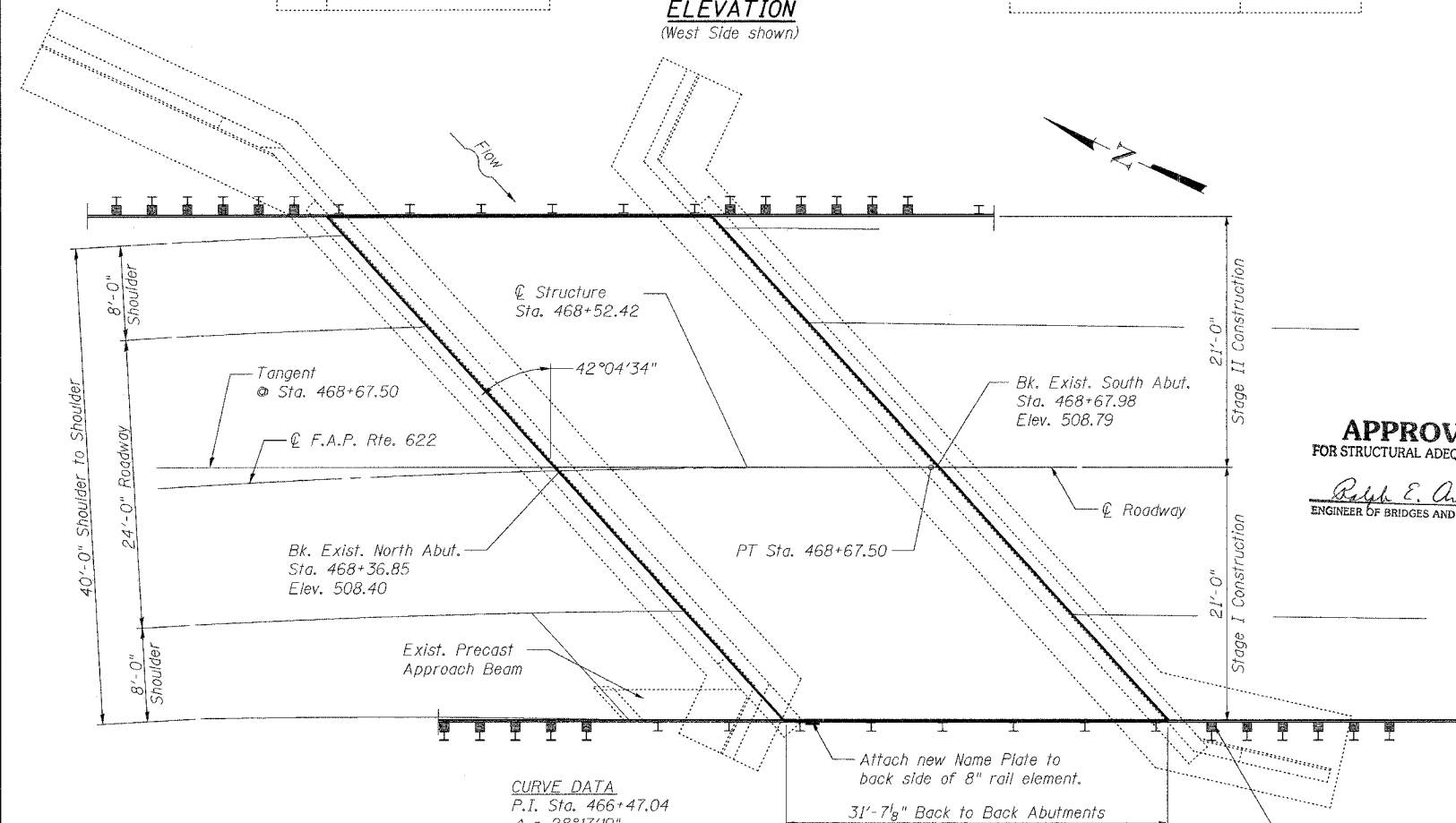
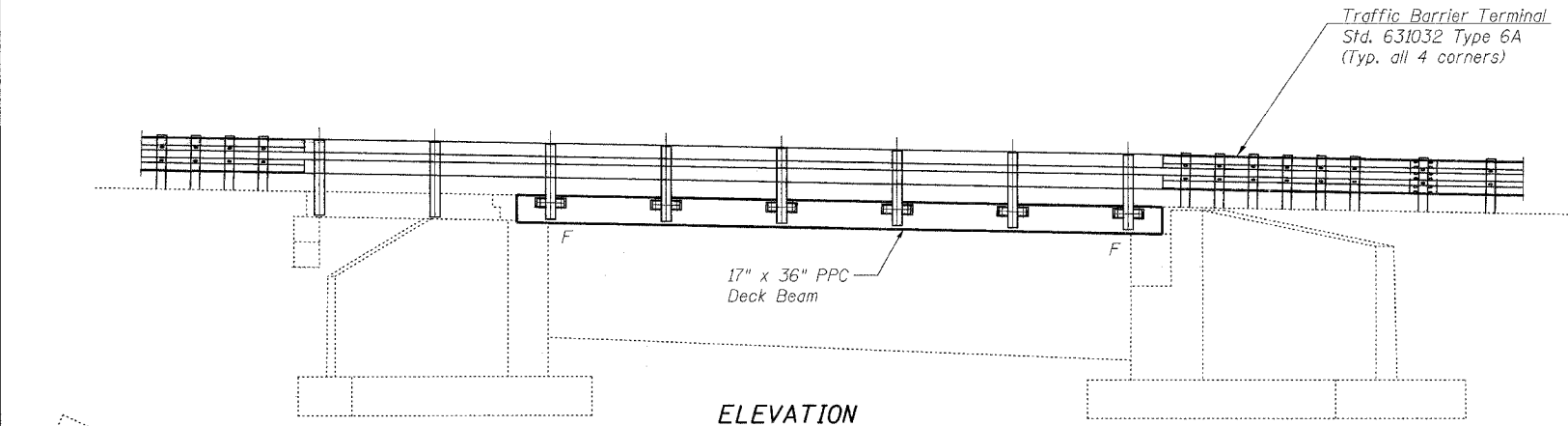
The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractor's responsibility to account for the condition of the beams when developing construction procedures for removal and replacement of the superstructure.

If the contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on new beams, a detailed procedure shall be submitted to the Engineer for approval. The procedure shall include calculations, prepared and sealed by an Illinois Licensed Structural Engineer, verifying that the equipment and procedure used will not overstress the new beams. To distribute load to multiple beams and protect the concrete, in all cases a double layer mat of heavy timbers shall be used at all times under crane tracks or wheels and any outriggers in the down position. If necessary, shims shall be used under the crane mat to ensure uniform contact with the underlying beams. Prior to placement of the timber mats the following shall be done: placement and tightening of transverse tie assemblies, grouting and curing the dowel rods 24 hours minimum and grouting and curing the shear keys. A temporary means of lateral restraint will be required for fascia beams at expansion ends of beams to prevent movement of the beams.

No instream work will be allowed on this project.

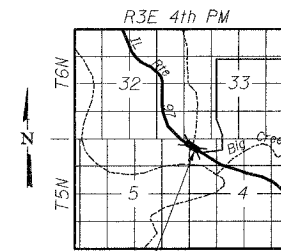
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CURVE DATA
P.I. Sta. 466+47.04
Δ = 28°17'19"
D = 6°16'55"
T = 229.84'
L = 450.31'
R = 912.05'
E = 28.515'
S = 0.08'/'
P.C. Sta. 464+17.20
P.T. Sta. 468+67.50

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Ralph E. Anderson
ENGINEER OF BRIDGES AND STRUCTURES

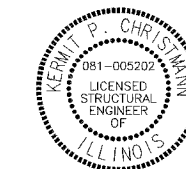


NAME PLATE

STATION 468+52.42
REBUILT 200 BY
STATE OF ILLINOIS
F.A.P. RT. 622
SEC. (128BR)I
LOADING HS20
STR. NO. 029-0026

NAME PLATE
See Std. 515001

Existing Name Plate shall be cleaned and relocated adjacent to new Name Plate. Cost included with Name Plates.



Expires: 11/30/06

Kermit P. Christman

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Removal of Existing Superstructures	Each	1		1
Bridge Deck Grooving	Sq. Yd.	144		144
Protective Coat	Sq. Yd.	151		151
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	1355		1355
Reinforcement Bars, Epoxy Coated	Pound	2050		2050
Steel Bridge Rail, Type SM	Foot	75		75
Name Plates	Each	1		1
Epoxy Crack Sealing	Foot		14	14
Structural Repair of Concrete (Depth equal to or less than 5")	Sq. Ft.		20	20
Concrete Wearing Surface, 5"	Sq. Yd.	151		151
Bar Splicers	Each	36		36

GENERAL PLAN AND ELEVATION
ILLINOIS ROUTE 97 OVER
BIG CREEK TRIBUTARY
F.A.P. RTE 622 SECTION (128BR)I
FULTON COUNTY
SN 029-0026

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CHECKED ALN	
DRAWN KBF	
CHECKED KPC	