#### INDEX OF SHEETS

SHEET	DESCRIPTION
1	COVER SHEET, INDEX OF SHEETS, STANDARDS
2	GENERAL NOTES, SIGNATURES
3	SUMMARY OF QUANTITIES
4	BITUMINOUS MIX DESIGN, PAVEMENT MARKING
5	STAGE CONSTRUCTION SN 041-0021
6	STAGE CONSTRUCTION SN 083-0031
7	PLAN AND ELEVATION SN 083-0031
8	REPAIR DETAILS SN 083-0031
9	REPAIR DETAILS SN 083-0031
10	PLAN AND ELEVATION, REPAIR DETAILS SN 097-0021
11	REPAIR DETAILS SN 097-0021
12	PLAN AND ELEVATION SN 041-0021
13	BEAM DETAILS SN 041-0021
14	RAIL DETAILS SN 041-0021

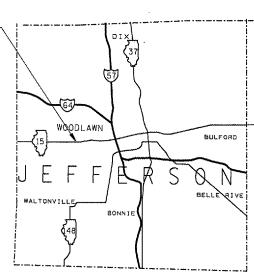
### STANDARDS

701201-02 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH 701321-09 LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER 701901 TRAFFIC CONTROL DEVICES 704001-04 TEMPORARY CONCRETE BARRIER

IMPROVEMENT LOCATION

TRUCKS = 6%

ILL 15 STRUCTURE 041-0021 REPLACEMENT OF 5 PPC DECK BEAMS 2005 ADT = 2200



#### PLAN DRAWINGS ARE NOT TO SCALE.

J.U.L.I.E.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CONTRACT NO. 78035

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

## **PROPOSED HIGHWAY PLANS**

**FAP ROUTE 821 (IL 15)** FAP 776 (IL 142) FAP 328 (US 45) SECTION 105I-1,12I-1,124I-1 C-99-015-08 **JEFFERSON, SALINE, WHITE COUNTIES** 

IMPROVEMENT LOCATION

REPLACEMENT OF 2 PPC DECK BEAMS

**STRUCTURE 083-0031** 

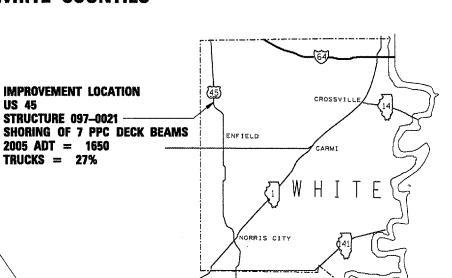
2005 ADT = 1500 TRUCKS = 20%

ILL 142

IMPROVEMENT LOCATION

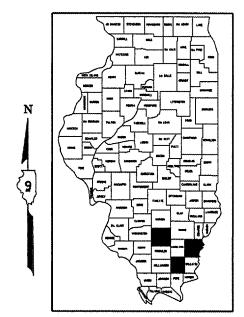
**STRUCTURE 097-0021** 

2005 ADT = 1650 TRUCKS = 27%



**JEFFERSON** SALINE, WHITE

\*(1051-1, 121-1, 1241-1)



STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SUBMITTED .

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

MAP NOT TO SCALE

ELDORAD

HARRISBURG

CARRIER

#### 

\*(105I-1, 121-1, 1241-1) CONTRACT NO. 78035

#### GENERAL NOTES

THE THICKNESS OF HOT-MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT MIXTURE IS PLACED.

THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.

THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS.

TRAFFIC CONTROL SIGNS SHALL BE PLACED SO THAT THEY DO NOT INTERFERE WITH EXISTING SIGNS OR FLASHING BEACONS. THE DIMENSIONS BETWEEN SIGNS MAY BE MODIFIED SLIGHTLY SO AS TO AVOID CONFLICTS WITH EXISTING SIDEROADS, COMMERCIAL ENTRANCES, AND PRIVATE ENTRANCES. THE BUREAU OF OPERATIONS SHOULD APPROVE FINAL PLACEMENT OF TRAFFIC CONTROL SIGNING.

WHILE SIGNAL HEADS ARE MOUNTED IN PLACE, BUT NOT YET IN OPERATION, THEY SHALL BE SECURELY COVERED IN WHITE PLASTIC.

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT-MIX ASPHALT

2.016 TONS/CU. YD.

THE CONTRACTOR IS NOT ALLOWED TO REMOVE GUARDRAIL TO FACILITATE INSTALLATION OF PORTABLE SIGNALS.

Prepared By:	DISTRICT OPERATIONS ENGINEER
Examined By:	h Jan La Van Ing
Examined By:	ASSISTANT REGIONAL ENGINEER
Examined By:	Cani Relsin
Examined By:	DISTRICT PROGRAM DEVELOPMENT ENGINEER
Examined By:	District STUDIES & PLANS ENGINEER
Examined By:	Eluce CONSTRUCTION DENGINEER
Examined By:	DISTRICT MATERIALS ENGINEER
Approved By:	DISTRICT PROJECT IMPLEMENTATION ENGINEER
	DEPUTY DIRECTOR OF HIGHWAYS. REGION 5 ENGINEER
	DATE 20 7

# STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION SUMMARY OF QUANTITIES

MOUTE NO.	SECTION	COUNTY		TOTAL	## MEET MO.
FAP 821 FAP 778 FAP 328	٠	JEFFE SALINE	RSON , WHITE	14	3
PRO, NOAD DEST, NO. 7		BTIMOLE	PIRO. ALU PRICA	ecr.	

\*(105I-1, 121-1, 1241-1) CONTRACT NO. 78035

	100% STATE			RURA	A L	
	CONSTRUCTION TYPE CODE: SAFETY - 2A			QUANT	ITY	
CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	JEFFERSON 041-0021	WHITE 097-0021	SALINE 083-0031
40603320	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N90	TON	12. 1	6. 4		5. 7
44001005	HOT-MIX ASPHALT SURFACE REMOVAL	SQ YD	16. 1	7		9. 1
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ. FT	500.3	500. 3		
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ. FT.	295			295
50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	22600		22600	
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	104.9	62. 6		42.3
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	317	167		150
X0323078	REMOVE AND RE-ERECT EXISTING BRIDGE RAIL	FOOT	148	98		50
67100100	MOBILIZATION	L SUM	1	0. 34	0.33	0.33
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	. 2	1		1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0. 34	0. 33	0.33
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	2	1		1
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	97	81		16
70400100	TEMPORARY CONCRETE BARRIER	FOOT	420	220		200
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	190	190		
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	882	703		179
X0320047	REMOVAL OF EXISTING PRECAST PRESTRESSED CONCRETE DECK BEAMS	SQ FT	799. 3	500. 3		299
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	1	2	1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	4	1	2	1
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	4			4
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	4	2	·	2
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2		

 после но.	MINOTION	990	MIY	TOTAL	BHEETT MCA
FAP 821 FAP 776 FAP 328	•	JEFFE SALINE		14	4
PED. NOAD DIET.	NO. 7	RLINO#	MID AND PROJ	ECT+	

\*(105I-1, 121-1, 1241-1) CONTRACT NO. 78035

### BITUMINOUS MIX DESIGN

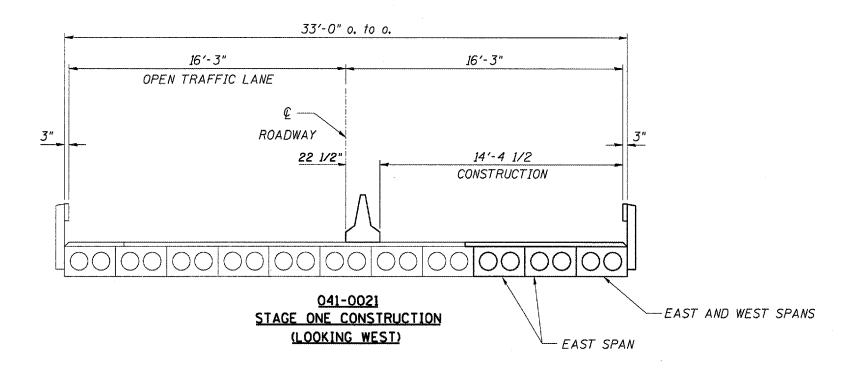
LOCATION:	HOT-MIX ASPHALT SURFACE COURSE
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE, MIX C, N90
AC/PG:	PG64-22
RAP % (MAX):	10
DESIGN AIR VOIDS:	4.0%, 90 GYRATION DESIGN
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL - 9.5 mm OR IL 12.5 mm
FRICTION AGGREGATE:	C SURFACE

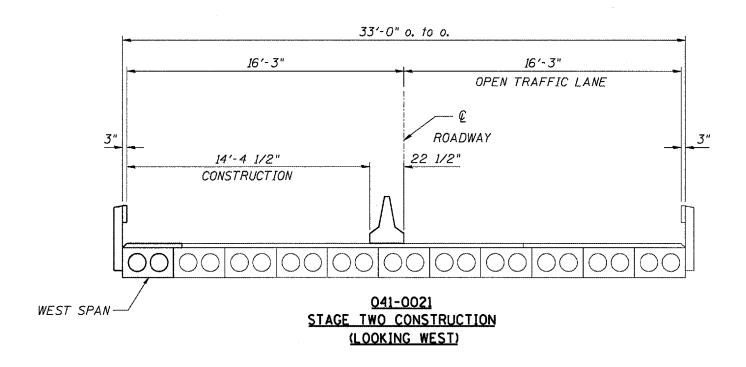
### PAINT PAVEMENT MARKING - LINE 4"

	041-0021	083-0031
QUANTITY	FT.	FT.
YELLOW	668	129
WHITE	35	50
TOTAL	703	179

•						
	MOSTIE MO.	BESTION	9001	INTY	TOTAL	MADE!
	FAP 821 FAP 778	_	JEFFE		14	5
	FAP 328	_	SALINE, WHIT		174	
	FED. HOAD DRIT. NO. 7		KLINOS	PEO. AID PROJ	ECT-	

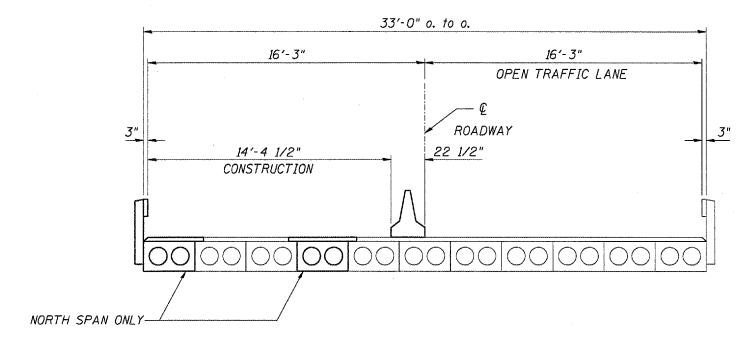
\*(105i-1, 121-1, 1241-1) CONTRACT NO. 78035



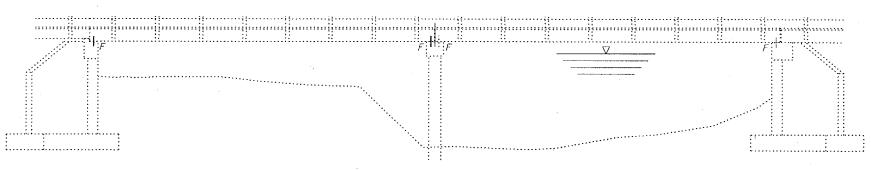


ROUTE NO.	SHOTION	000	RATY	TOTAL MARKETS	MARET NO.
FAP 821 FAP 778 FAP 328	•		RSON WHITE	14	6
PRIS MOAD DIRT.	HQ. 7	B.L.HCR8	FED. AID PROJ	ect-	

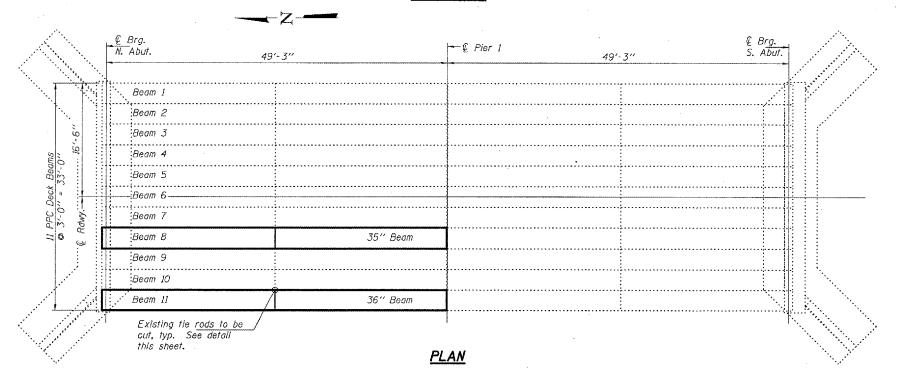
\*(105I-1, 121-1, 1241-1) CONTRACT NO. 78035

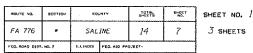


083-0031 (LOOKING NORTH)



#### ELEVATION





Contract Number: 78035 \* (1051-1, 121-1, 1241-1)

#### **GENERAL NOTES**

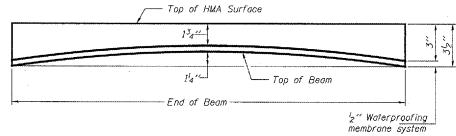
The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractors responsibility to account for the condition of the beams when developing construction procedures,

If the contractor's procedure for existing beam removal or placement of new beams involves placement of cranes or other heavy equipment on the bridge, 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 or existing beams. To distribute load to multiple beams and protect the existing surface, in all cases a double layer mat of heavy fimbers 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. If heavy equipment will be placed on new PPC deck beams, the following shall be done prior to placement of the timber mats: placement and tightening of transverse tie assemblies, grouting and curing the shear keys.

The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work

Temporary concrete barrier shall only be anchored into the overlay and not into the PPC Deck Beams.



#### ANTICIPATED INITIAL CAMBER DIAGRAM

### DESIGN STRESSES

PRECAST PRESTRESSED UNITS f'c = 5,000 psi

 $f'ci = 4,000 \ psi$   $f's = 270,000 \ psi \ ({}^{l}_{2}{}^{\prime\prime}\phi \ low \ lax \ strands)$   $f'si = 201,960 \ psi \ ({}^{l}_{2}{}^{\prime\prime}\phi \ low \ lax \ strands)$ 

DESIGNED THE RED CHECKED VICE H. Velix DRAWN balliva CHECKED AJB VHJ

EXAMINED

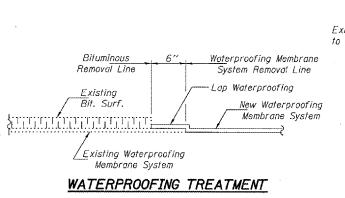
Soldinger of Structural States

PASSED

ENGINEER OF BRIDGES AND STRUCTURES

ENGINEER OF BRIDGES AND STRUCTURES





Existing beam to remain

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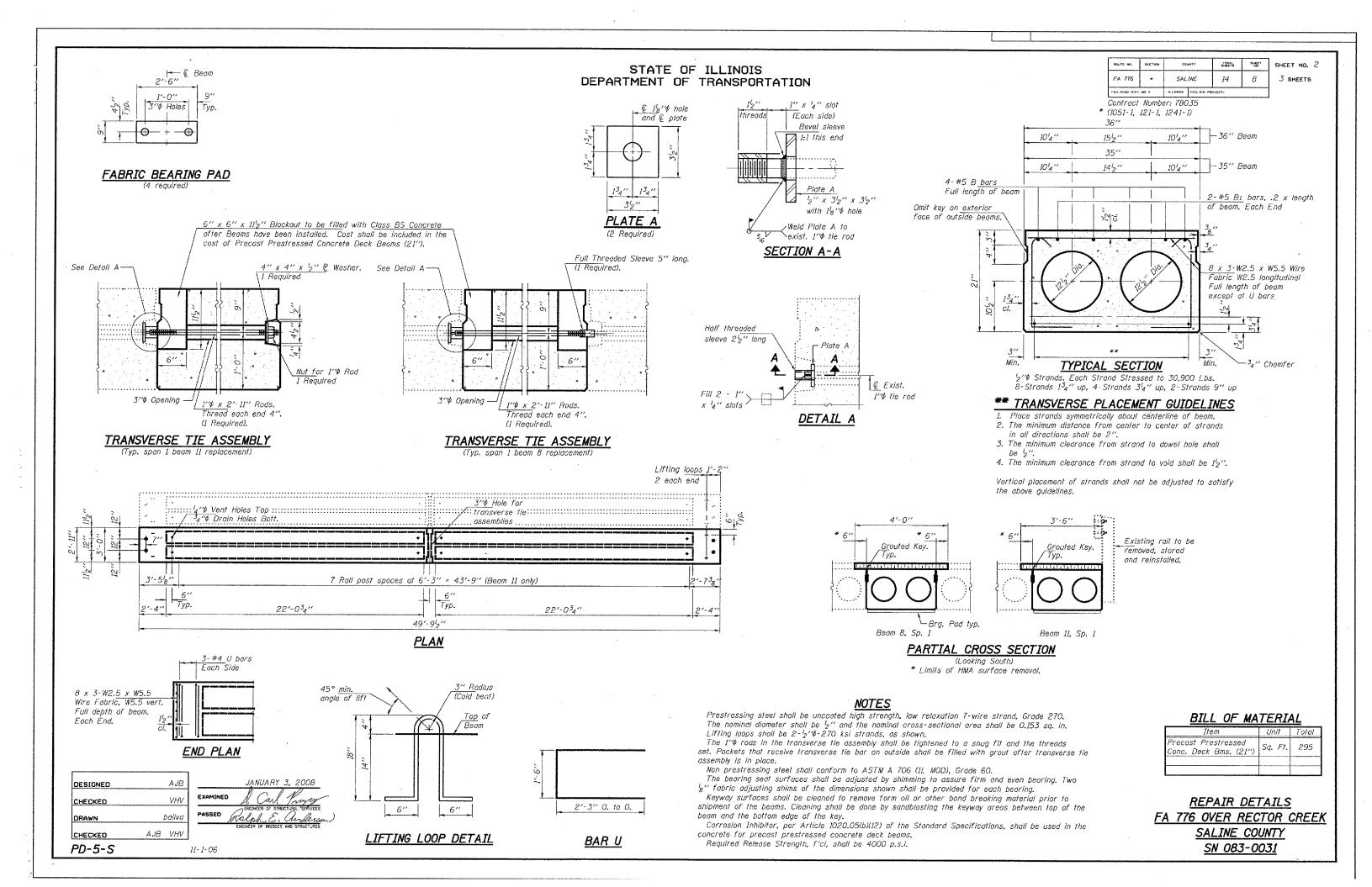
Max.

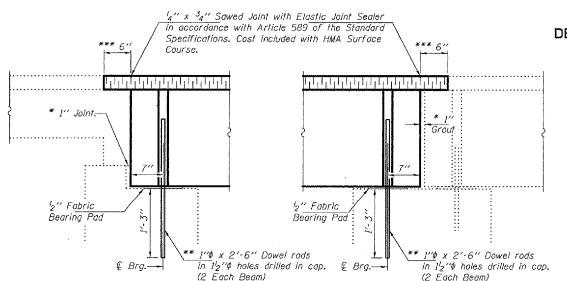
<u>BEAM REMOVAL DETAIL</u> <u>AT TRANSVERSE TIES</u>

#### TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Removal of Existing PPC Deck Beams	Sg. Ft.	299
Precast Prestressed Concrete Deck Beams (21'' Depth)	Sq. Ft.	295
HMA Surface Removal	Sq. Yd.	9.1
HMA Surface Course Mix "C" N90	Tons	5.7
PC Mortar Fairing Course	Foot	150
Asbestos Bearing Pad Removal	Each	4
Waterproofing Membrane System	Sq. Yd.	42.3
Remove and Re-Erect Existing Bridge Rail	Foot	50

PLAN AND ELEVATION
FA 776 OVER RECTOR CREEK
SALINE COUNTY
SN 083-0031





ROUTE NO.	SECTION	cou	PITY	YOTAL SHEETS	SHEET MO.	SHEET NO. 3
FA 776	*	SAL	INE	14	9	3 SHEETS
FEG. ROAD DIST	ND. 7	ILLINOIS	PEO. 010 PR	DJECT -		

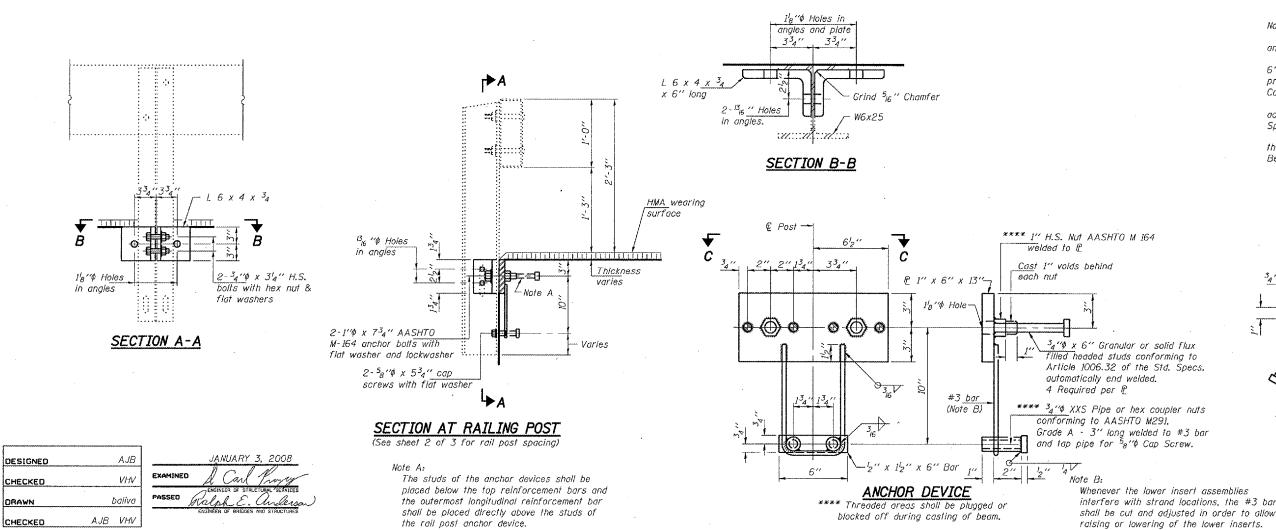
Confract Number: 78035 \* (1051-1, 121-1, 1241-1)

#### TYPICAL SECTION AT ABUTMENT

#### TYPICAL SECTION AT PIER

- \* 1" Joint shall be packed with a very dry mix of 2:1 sand and PC mortar. This dimension may vary plus or minus to accommodate tolerance in beam lengths.
- \*\* Existing Dowel Rods shall be cut off & ground flush with the top of the existing concrete.

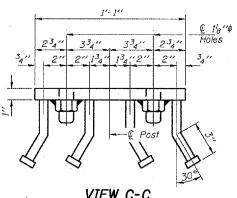
  Cost included with Removal of Existing PPC Deck Beams. Proposed Dowel Rods shall be grouted after beams are in place and allowed to cure (Min. 24 hrs.) prior to grouting shear
- \*\*\* Limits of HMA surface removal.



Maximum adjustment not to exceed \( \frac{1}{2} \).

All field drilled holes shall be coated with an approved zinc rich paint before erection. For multi-span bridges, sufficient 4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1. All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

Cost of the anchorage devices is included with the cost of Precast Prestressed Concrete Deck Beams (21" Depth).



VIEW C-C

REPAIR DETAILS interfere with strand locations, the #3 bars FA 776 OVER RECTOR CREEK SALINE COUNTY SN 083-0031

\*Contractor is to verify beam length prior to ordering material. Other sections meeting the section modulus requirements shown may be allowed subject to approval by the Bureau of Bridges and Structures.

€ Pier 1 --

€ Pier 1 ----

.....B.

-\*W27 x 84 x 28'-10"

ELEVATION

32'-814"

Span 2

PLAN

4 spaces @ 7'-3"

@ Pier 2-

(Min.  $Sx Reg'd = 213.0 in^3$ )

\*W27 x 84 x 29'-6"

32'-104"

4 spaces @ ± 7'-4'2"

ON ENGINEERS INCOMEDIA PLANNERS CONCOURS I AND SURVEYORS CON

MASON CITY, IOWA DUBUQUE, IOWA AMES, IOWA E. DUBUQUE, ILLINOIS SPRINGFIELD, ILLINOIS ROCHESTER, MINNESOT

(space to miss adjacent tie Æ's)

(Min.  $Sx Req'd = 213.0 in^3$ )

\*\*© Transverse tie P's (3 per span). Place additional shims at midpoints between tie ft's, Securely weld shims to top flange of support beam. Minimum shim size is 6" x flange width.

Spacing may be adjusted to miss adjacent

..........

transverse tie E's.

Bk. N. Abut .--

Bk. N. Abut .--

Transverse Tie Æ's

Beam 1 Beam 2

Beam 3 Beam 4 Beam 5

Beam 6

Beam 7 Beam 8 Beam 9

Beam 10

Beam 11

DESIGNED CMV

CHECKED SDS

CHECKED CMV

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

\*W27 x 84 x 29'-6"

32'-104"

Span 3

4 spaces @ 7'-4'2"

(Min.  $Sx Reg'd = 213.0 in^3$ )

Bk. S. Abut.--

Bk. S. Abut.

TOTAL SHEET SHEETS NO. SHEET NO. 14 10 2 SHEETS FAP 328 White

Contract # 78035

#### GENERAL NOTES

All structural steel shall conform to AASHTO Classification M-270 Gr. 36, unless otherwise noted.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction 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 scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

See Section 584 of the Standard Specifications for Epoxy Grouting of Threaded Rods: Min. embedment 9".

The cost of epoxy grouting threaded rods shall be included with Furnishing and Erecting Structural Steel.

The contractor is advised that the existing PPC Deck Beams are in a deteriorated condition with reduced load carrying capacity. It is the contractors responsibilty to account for the condition of the beams when developing construction procedures.

If the contractor's procedure for placement of beams involves placement of cranes or other heavy equipment on the bridge, 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 existing beams. To distribute load to multiple beams and protect the existing surface, 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.

Contractor has the option of using used steel. See Special Provision.

#### TOTAL BILL OF MATERIAL

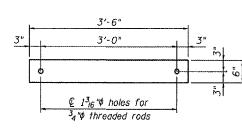
	ĬT E M		UNIT	QUANTITY
Furnishing	and Erecting Str	uctural Steel	Pound	22,600
	5			
		MINIMIN	111//2. 1	1-76-07
	THE COLUMN THE PARTY OF THE PAR	MITEOFI	LININ	1.26.07
	NIII.	A A THE D. S.	10	
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GENERAL PLAN AND ELEVATION REPAIR DETAILS

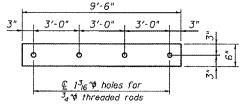
US 45 OVER UNNAMED STREAM

WHITE COUNTY

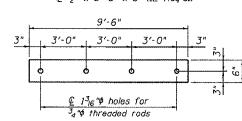
S.N. 097-0021

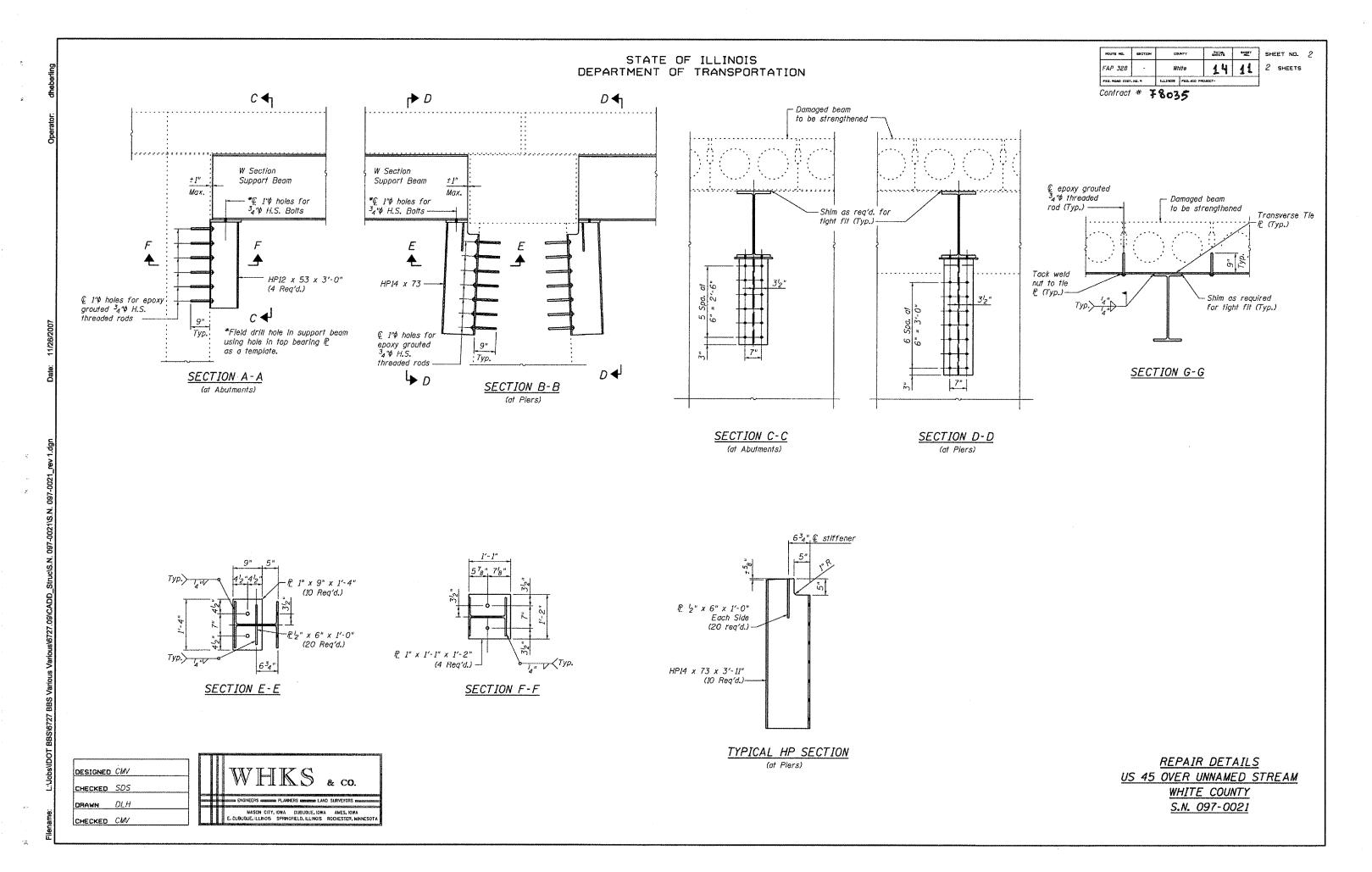


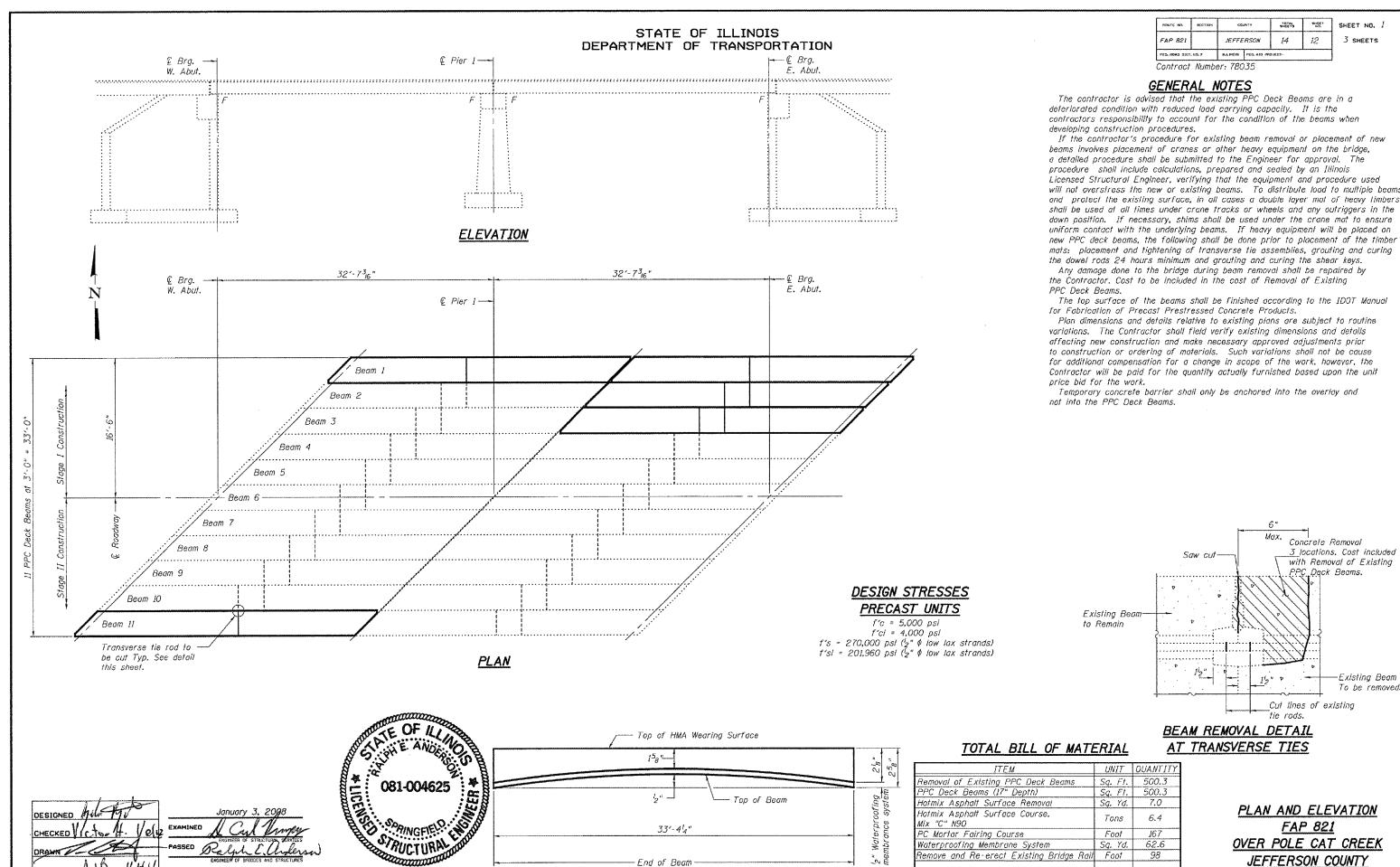
#### TRANSVERSE TIE P "A" P 5" x 3'-6" x 6" (12 Reg'd.)



TRANSVERSE TIE P "B" 尼 b" x 9'-6" x 6" (3 Reg'd.)

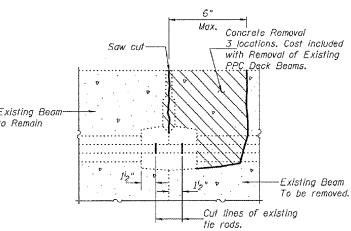






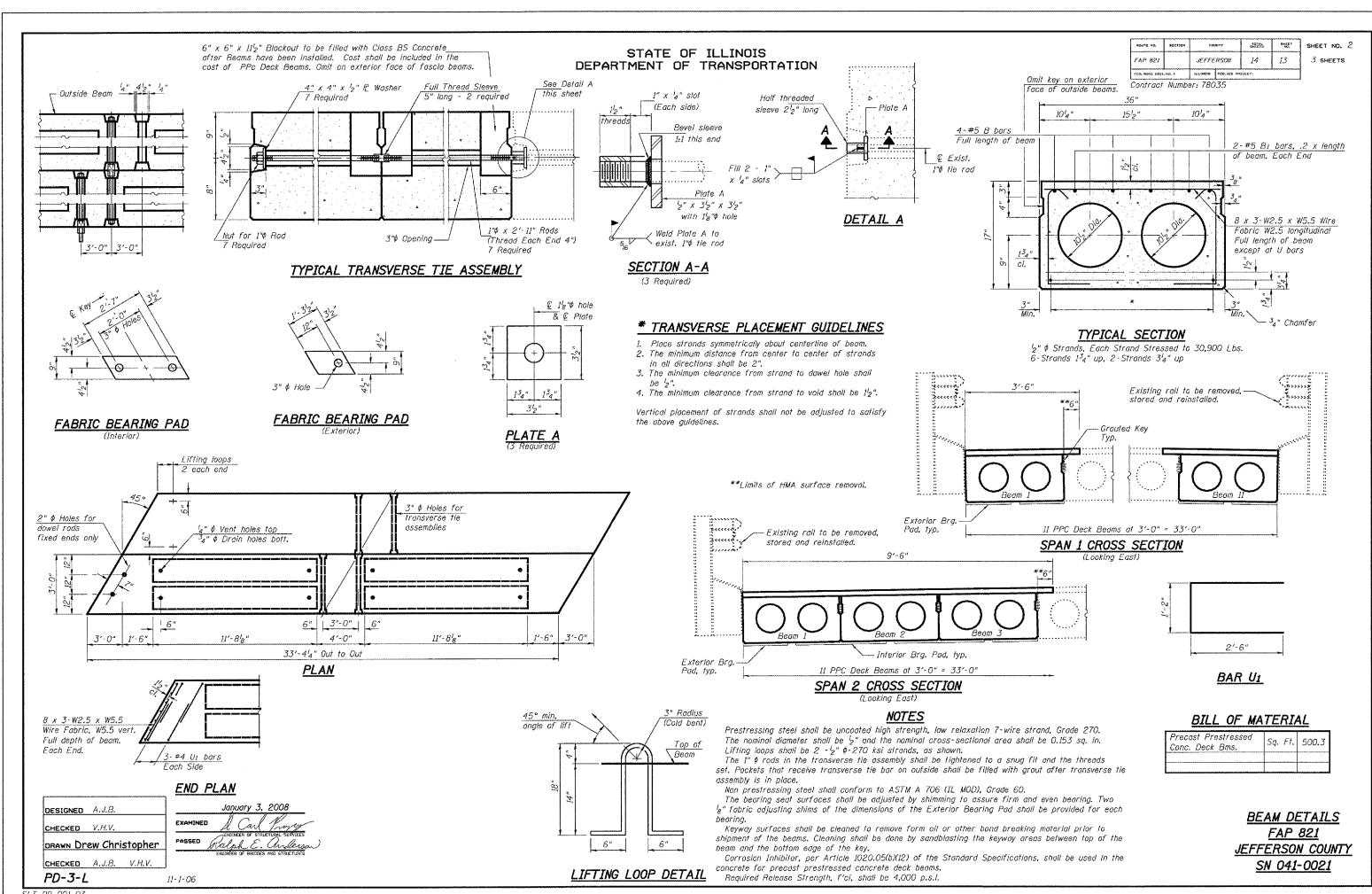
ANTICIPATED INITIAL CAMBER DIAGRAM

Expires: November 30, 2008

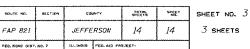


ITEM	UNIT	QUANTITY		
Removal of Existing PPC Deck Beams	Sq. Ft.	500.3		
PPC Deck Beams (17" Depth)	Sq. Ft.	500.3 7.0		
Hotmix Asphalt Surface Removal	Sg. Yd.			
Hotmix Asphalt Surface Course, Mix "C" N90	Tons	6.4		
PC Mortar Fairing Course	Foot 167			
Waterproofing Membrane System	Sq. Yd.	62.6		
Remove and Re-erect Existing Bridge Rail	Foot	98		

JEFFERSON COUNTY SN 041-0021

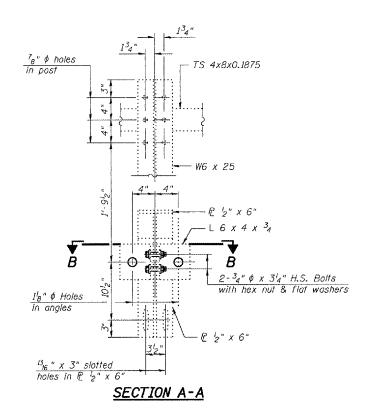


SLT-99-001-07



3 SHEETS

Contract Number: 78035



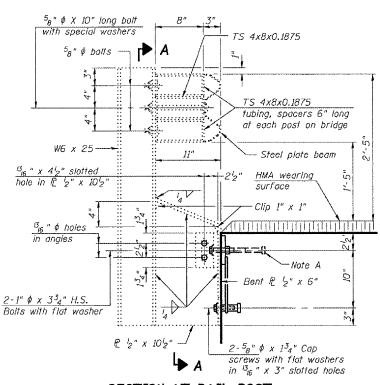
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@ Post ---

EXAMINED

PASSED

11-1-06



#### Bk. of $\mathcal{L}$ Brg. $\frac{7^{l_2}"}{2}$ $\mathcal{L}$ Pier Abut. 14" x 34" Sawed Jt .-Limits of HMA Limits of HMA with elastic Jt. removal and removal and filler full width replacement replacement, Exist. Existing waterwaterproofing to proofing to remain. remain. Lap new Lap new W.P.M.S. W.P.M.S. with exist. with exist. W.P.M.S. waterproofing. b" x 9" x 2'-0' Fabric Brg. Pad - 5" x 6" PJF \*\*1"\$ x 2'-6" Full Width dowel rods in 1/2"\$ holes drilled in cap l<sub>2"</sub> x 3l<sub>2</sub>" P.J.F. Full Width (2 per beam)

#### TYPICAL SECTION AT ABUTMENTS

#### TYPICAL SECTION AT PIER

\*1" Joint shall be filled with non-shrink grout, Dimension may vary to accommodate tolerance in beam lengths.

\*\*Existing dowel rods are to be burned off, ground flush, and sealed with epoxy prior to placement of new beams. Cost included in Removal of Existing PPC Deck Beams. After beams have been erected holes shall be drilled into cap and dowel rods placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure a minimum of 24 hours prior to grouting the shear keys.

## SECTION AT RAIL POST

\* 1" H.S. Nut AASHTO M 164

 $^3$ 4"  $\phi$  x 6" Granular or solid flux

filled headed studs conforming to

article 1006.32 of the Std. Specs.

automatically end welded.

\* 34" \$\phi XX Pipe or Hex Coupler Nuts conforming to AASHTO M291, Grade

A - 3" long welded to #3 bar and

€ 1'8" \$ Holes

tap pipe for <sup>5</sup><sub>8</sub>" ¢ Cap Screw.

4 Required per P

Cast 1" voids behind

welded to P

each nut

x 6" x 13" P

\*\* #<u>3</u>

≥ 1'<sub>B</sub>" \$ Hole

x 1½" x 6" Bar

ANCHOR DEVICE

\* Threaded areas shall be plugged or blocked off during casting of beam.

\*\* Whenever the lower insert assemblies interfere with strand locations,

January 3, 2008

6'-3" Maximun Post Spacing

the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed  $\frac{1}{2}$ ". Note A:

334"

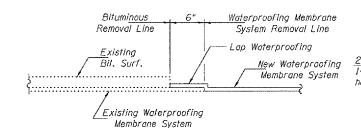
2" 2" 13," 13," 2"

334"

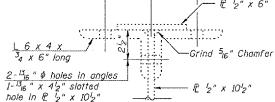
VIEW C-C

2"

The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bor shall be placed directly above the study of the rail post anchor



WATERPROOFING TREATMENT



- ¾" ¢ Holes

4" SHIM PLATE

RAIL DETAILS

FAP 821

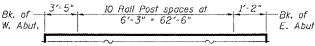
#### SECTION B-B

All field drilled holes shall be coated with an approved zinc rich paint before erection.

For multi-span bridges, sufficient \( \frac{1}{4} \)" \( x \) 6" \( x \) 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Remove and Re-Erect Existing Bridge Rail.

All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.

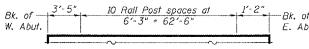
Cost of all labor and material necessary to complete the work as shown on this sheet will be paird for at the contract unit price per



#### RAIL POST SPACING

DILL OF MATENTAL									
liem	Unit	Quantity							
Remove and Re-Erect Existing Bridge Rail	Foot	98							

foot for Remove and Re-erect Existing Bridge Rail.



FAP 021	TAP OZ.		MATERIA	L OF I	BIL	
JEFFERSON COUNTY	O	1/-:4			- Ita	
	uuantity	Unit		71	lfei	
<u>SN 041-0021</u>	98	Foot	Bridge Rail	Existing	Re-Erect	ove and

### CHECKED A.J.B. V.H.V. R-30

DESIGNED A.J.B.

CHECKED V.H.V.

DRAWN Drew Christopher

SLT-99-001-07