OJIM MILLER (309)671–3451 ENGINEER: (O PROJECT

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

INDEX OF SHEETS:

- 1. COVER SHEET
- 2. COMMITMENTS & GENERAL NOTES
- 3. SUMMARY OF QUANTITIES
- 4. SCHEDULE OF QUANTITIES
- 5-6. GENERAL LAYOUT
- 7-9. TRAFFIC CONTROL
- 10-14. REPAIR DETAILS

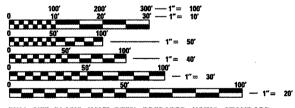
STANDARDS:

630001-09 701901-01

631026-05 704001-06

701101-02 780001-02

701106-0Z



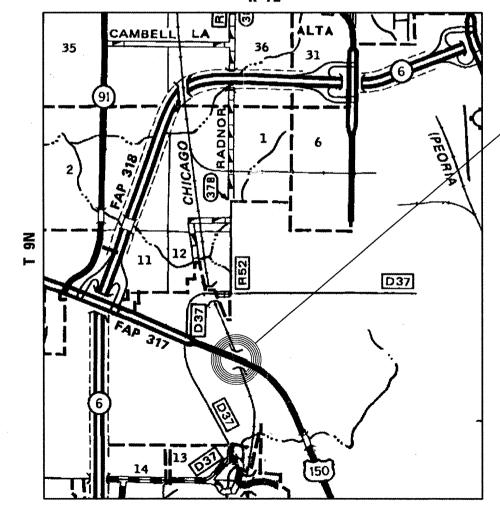
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROPOSED HIGHWAY PLANS

FAP 317 (US 150) SECTION [(16VB)BR]I **BRIDGE REPAIRS PEORIA COUNTY**

C-94-017-07 PROJECT NHE -0317(090)



LOCATION MAP

D-94-016-07



PROJECT CONSISTS OF JOINT REPLACEMENT WITH STRIP SEAL, AND NW. CURB SECTION REMOVED & REPLACED ON STRUCTURE CARRYING US150 (WAR MEMORIAL DR.) OVER UPRR CO, (SN. 072-0154) IN PEORIA.

SN.072-0154

DEPARTMENT OF TRANSPORTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CONTRACT NO. 68685 CAT. NO. 033439-02D

No commitments have been made for this project.

GENERAL NOTES

Plan Elevations - U.S.G.S. Mean Sea Level Datum Use one of the following two options.

- 1. All elevations shown on the plans are established from U.S.G.S. mean sea level datum.
- 2. All elevations shown refer to U.S.G.S. datum at mean sea level unless otherwise noted.

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 bid for the work. Damaged or deteriorated reinforcement bars shall be replaced prior to placement of concrete repair.

JOB SPECIFIC NOTES

Prior to any curb or parapet wall removal on the North side of the structure, the City of Peoria Traffic Operations Manager shall be contacted at (309) 494-8893 for temporarily dismounting the attached 2" fiber-optic conduit. Any damage to the conduit, flex tubing, mounting hardware, or internal cable incurred during this operation are the responsibilty of the Contractor and shall be corrected at no additional cost to the State. All costs included with Concrete Removal.

All Railing removal, storage, and re-erection necessary to complete the parapet wall rework at joint locations shall be included in cost of CONCRETE REMOVAL

Additional equipment or devices required to complete installation of traffic staging shall be included in cost of TRAFFIC CONTROL SPECIAL. See Special Provisions.

AFT/STD&PLNS/SQUAD BRIDGES/BRIDGE CONTRACTS/JOINTS/68685 SN072-0154 US150 ovr C

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SUMMARY OF QUANTITIES

80/20	NHS	FUNDING-0014
THE OF	PEORI/	FUNDING-0014 A COUNTY

			10 E			
	CODE NO.	ITEM	UNIT	URBAN	TOTAL	
	42001300	PROTECTIVE COAT	SQYD	46	46	
	50102400	CONCRETE REMOVAL	CUYD	29.5	29.5	
	50300255	CONCRETE SUPERSTRUCTURE	CUYD	29. 5	29.5	
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3043	3043	
	50800515	BAR SPLICERS	EACH	48	48	
	52000110	PREFORMED JOINT STRIP SEAL	FOOT	194	194	
	67100100	MOBILIZATION	LSUM	1	1	
	70106800	CHANGEABLE MESSAGE SIGN	CALMO	2	2	
k	70300520	PAVEMENT MARKING TAPE, TYPE III, 4"	FOOT	5055	5055	
Ł	70300540	PAVEMENT MARKING TAPE, TYPE III, 6"	FOOT	1025	1025	
	70301000	WORKZONE PAVEMENT MARKING REMOVAL	SQFT	1685	1685	
	70400100	TEMPORARY CONCRETE BARRIER	FOOT	925	925	
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	925	925	
K	78005110	EPOXY PAVEMENT MARKING - LINE 4"	FOOT	921	921	
	78300100	PAVEMENT MARKING REMOVAL	SQFT	307	307	
	X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	LSUM	1	1	
ĸ	X7200201	WIDTH RESTRICTION SIGNING	LSUM	1	1	
	Z0030240	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 2	EACH	4	4	
	Z0030340	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 2	EACH	4	4	
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	1	
Į		* SPECIALTY ITEM				

/DRAFT/STD&PLNS/SQUAD BRIDGES/BRIDGE CONTRACTS/JOINTS/68685 SNO72-015

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES								
			STI	RUC	TUR	E NO. 0	7201	54
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| F.A.P. | SECTION | COUNTY | SHEETS |

SCHEDULE OF QUANTITIES

PROTECTIVE COAT

LOCATION	SQYD
Parapet Wall Replacement Concrete & Surface of Concrete Joints	46
TOTAL	46

CONCRETE REMOVAL

LOCATION							CUYD
E.	&	W.	Structure	Joints	&	Parapets	29.5
						TOTAL	29.5

CONCRETE SUPERSTRUCTURE

	LOCATION						
Ε.	&	W.	Structure	Joints	&	Parapets	<i>29.</i> 5
						TOTAL	29.5

REINFORCEMENT BARS, EPOXY COATED

	LOCATION					
Ε.	&	W.	Joint	Replacements		3043
					TOTAL	3043

BAR SPLICERS

LOCATION	EACH
E. & W. Joint Replacements	48
TOTAL	48

PREFORMED JOINT STRIP SEAL

LOCATION					FOOT
Ε.	&	W.	Joint	Replacements	194
				TOTAL	194

MOBILIZATION

LOCATION	LSUM
Jobsite - SN.072-0154	1
TOTAL	1

CHANGEABLE MESSAGE SIGN

LOCATION		CALMO
Jobsite - SN.072-0154		2
	TOTAL	2

PAVMT. MRKG. TAPE, TYPE III, 4"

LOCATION		FOOT
Jobsite - SN.072-0154		5055
	TOTAL	5055

PVMT. MRKG. TAPE, TYPE III, 6"

LOCATION		FOOT
Jobsite - SN.072-0154		1025
	TOTAL	1025

WORKZONE PVMT. MRKG. REM.

LOCATION		SQFT
Jobsite - SN.072-0154		1685
	TOTAL	1685

TEMPORARY CONC. BARRIER

LOCATION		FOOT
Jobsite - SN.072-0154		925
	TOTAL	925

RELOCATE TEMP. CONC. BARRIER

LOCATION		FOOT
Jobsite - SN.072-0154		925
	TOTAL	925

EPOXY MRKG. - LINE, 4"

LOCATION		FOOT
Jobsite - SN.072-0154		921
	TOTAL	921

PAVEMENT MARKING REMOVAL

LOCATION		SQFT
Jobsite - SN.072-0154		307
	TOTAL	307

T. C. & PROTECTION (SPECIAL)

LOCATION		LSUM
Jobsite - SN.072-0154		1
	TOTAL	1

WIDTH RESTRICTION SIGNING

LOCATION	LSUM
EB. Traffic Control	0.5
WB. Traffic Control	0.5
TOTAL	1

IMPACT ATTEN., TEMP. (NRD) TL2

LOCATION		EACH
Jobsite - SN.072-0154		4
	TOTAL	4

IMPACT ATTEN., RELOC. (NRD) TL2

LOCATION		EACH
Jobsite - SN.072-0154		4
	TOTAL	4

RAILROAD PROT. LIABILITY INS.

LOCATION		LSUM
Jobsite - SN.072-0154		1
	TOTAL	1

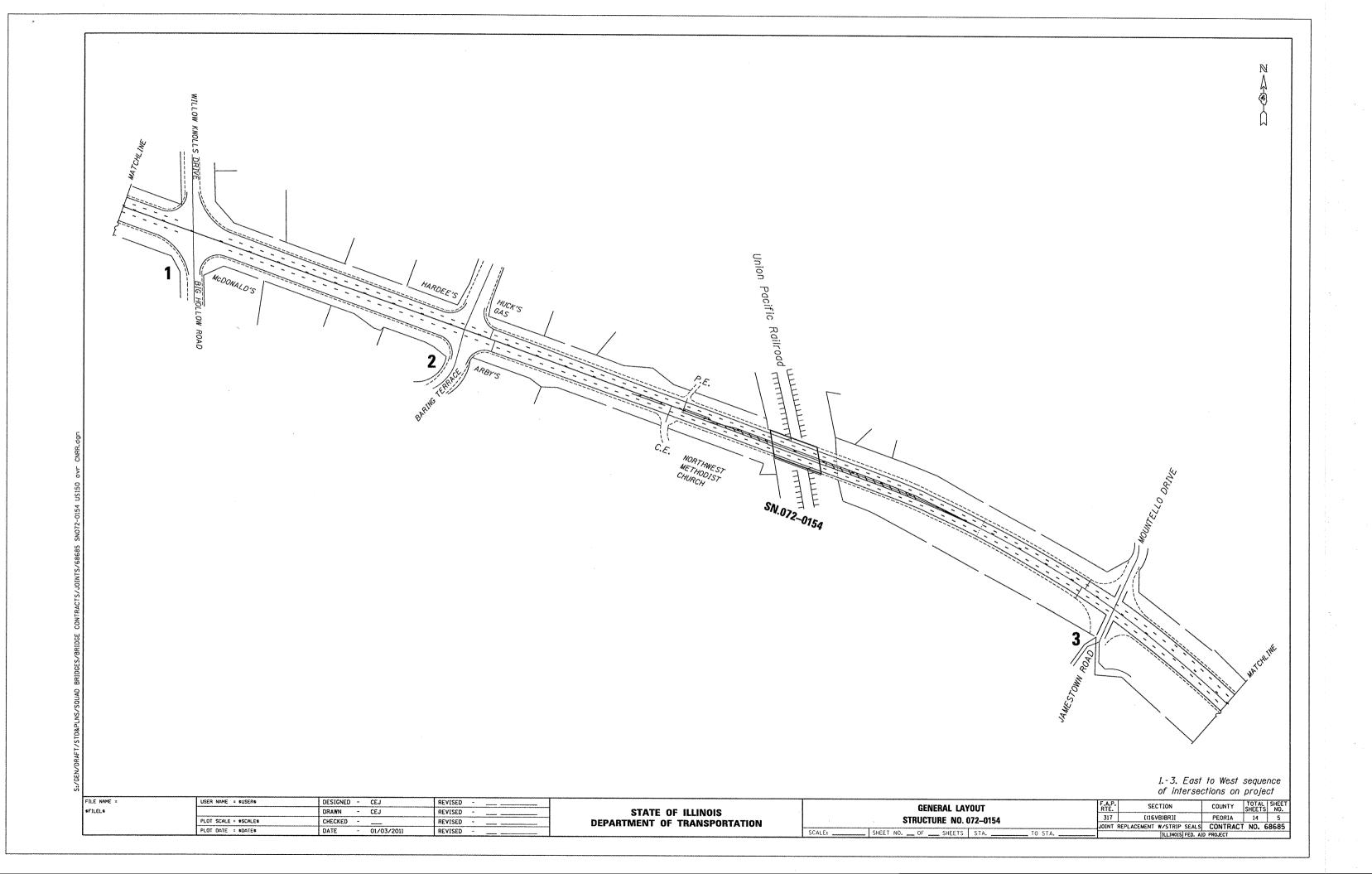
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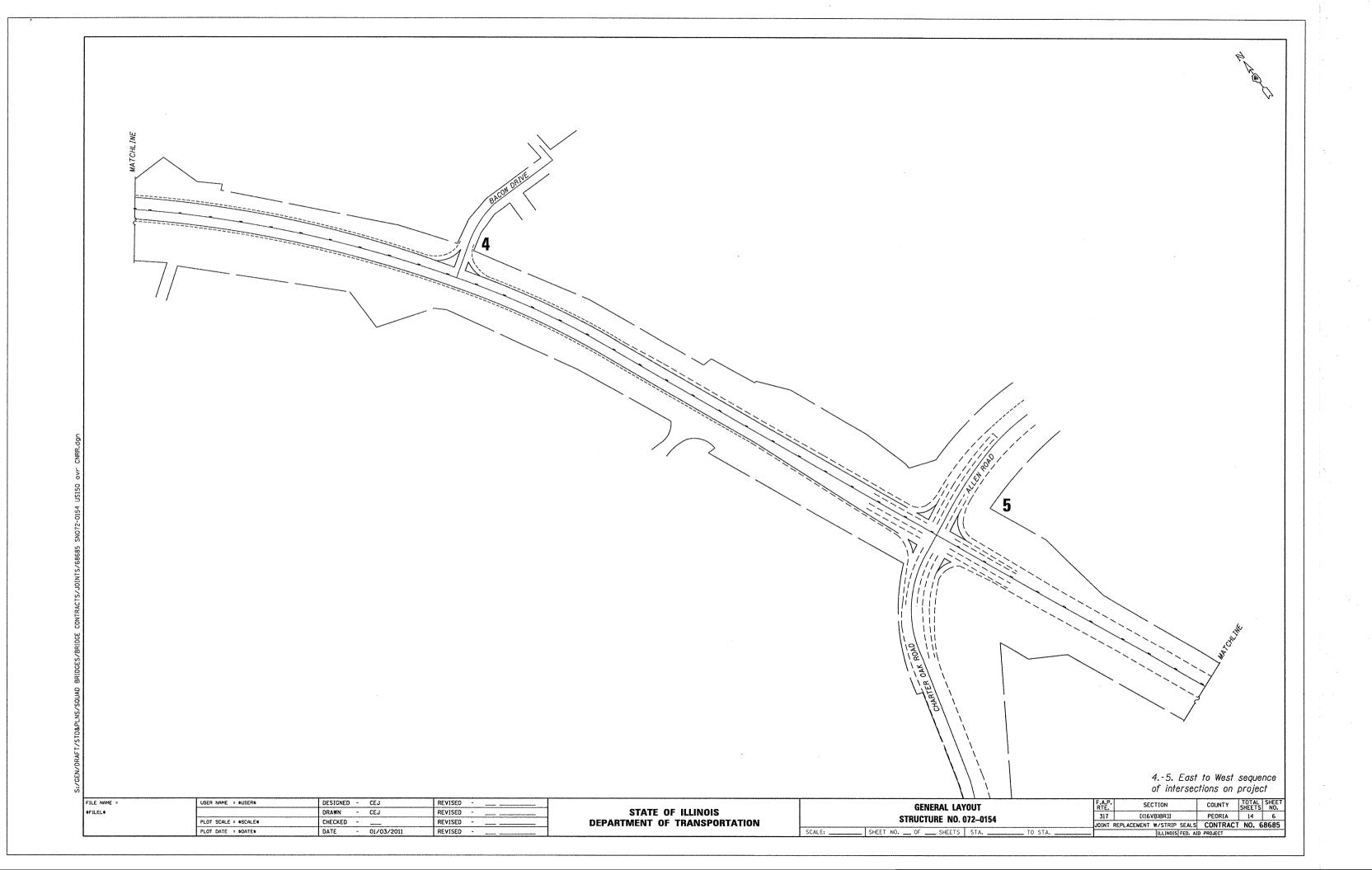
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

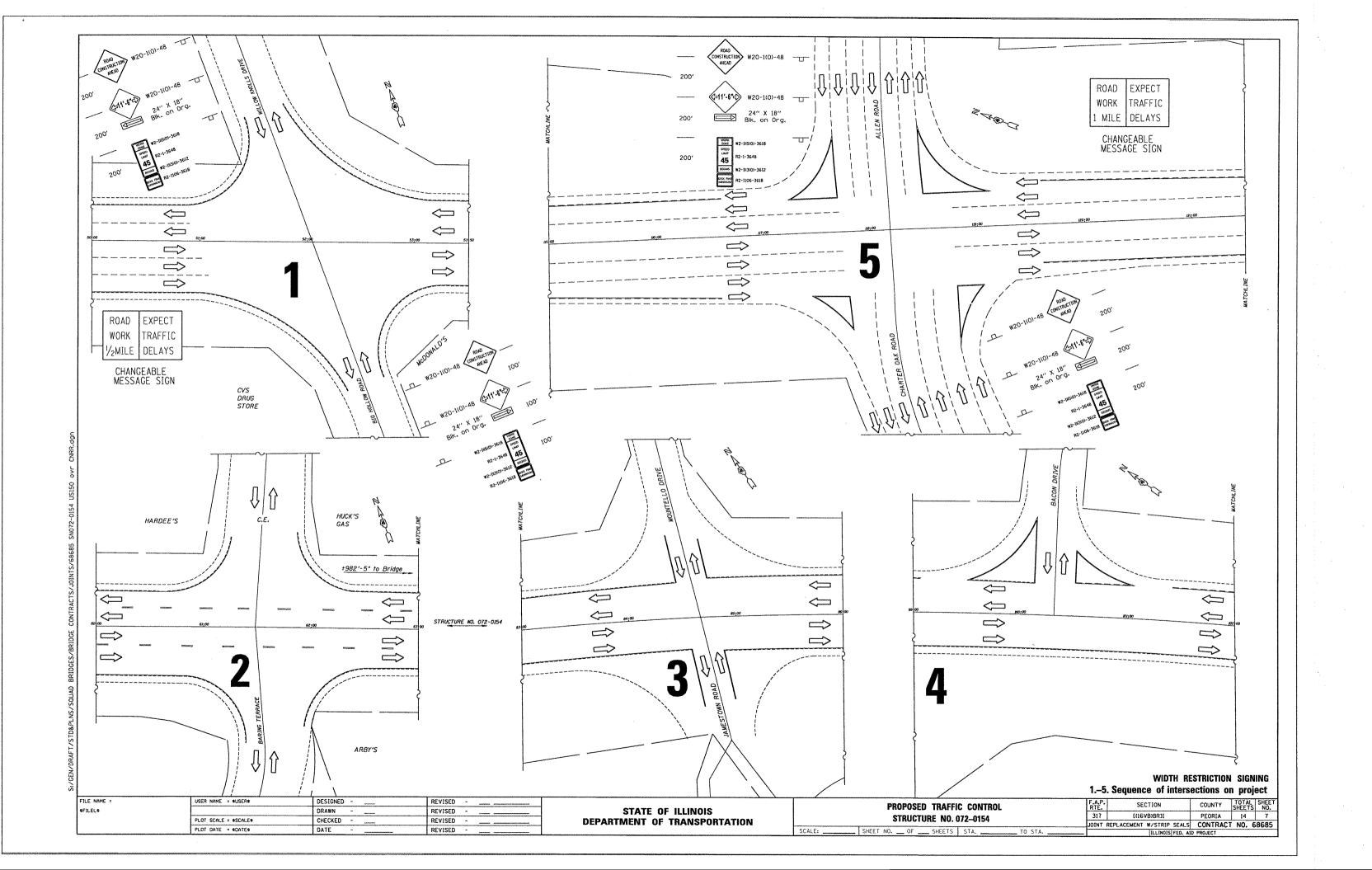
SCHEDULE OF QUANTITIES STRUCTURE NO. 072-0134 F.A.P. SECTION COUNTY TOTAL SHEET NO.

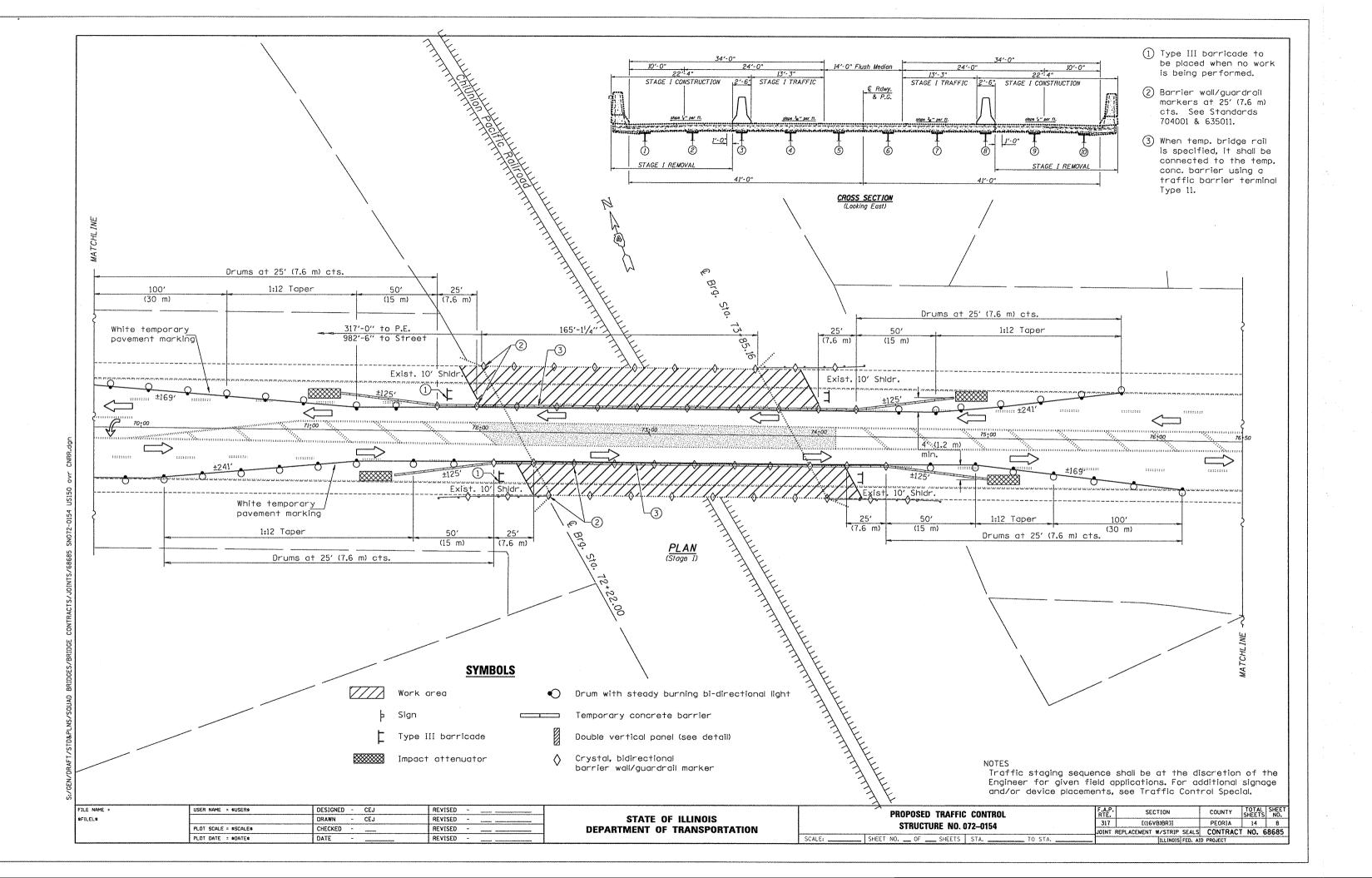
317 (488)1-1 PEORIA 14 4

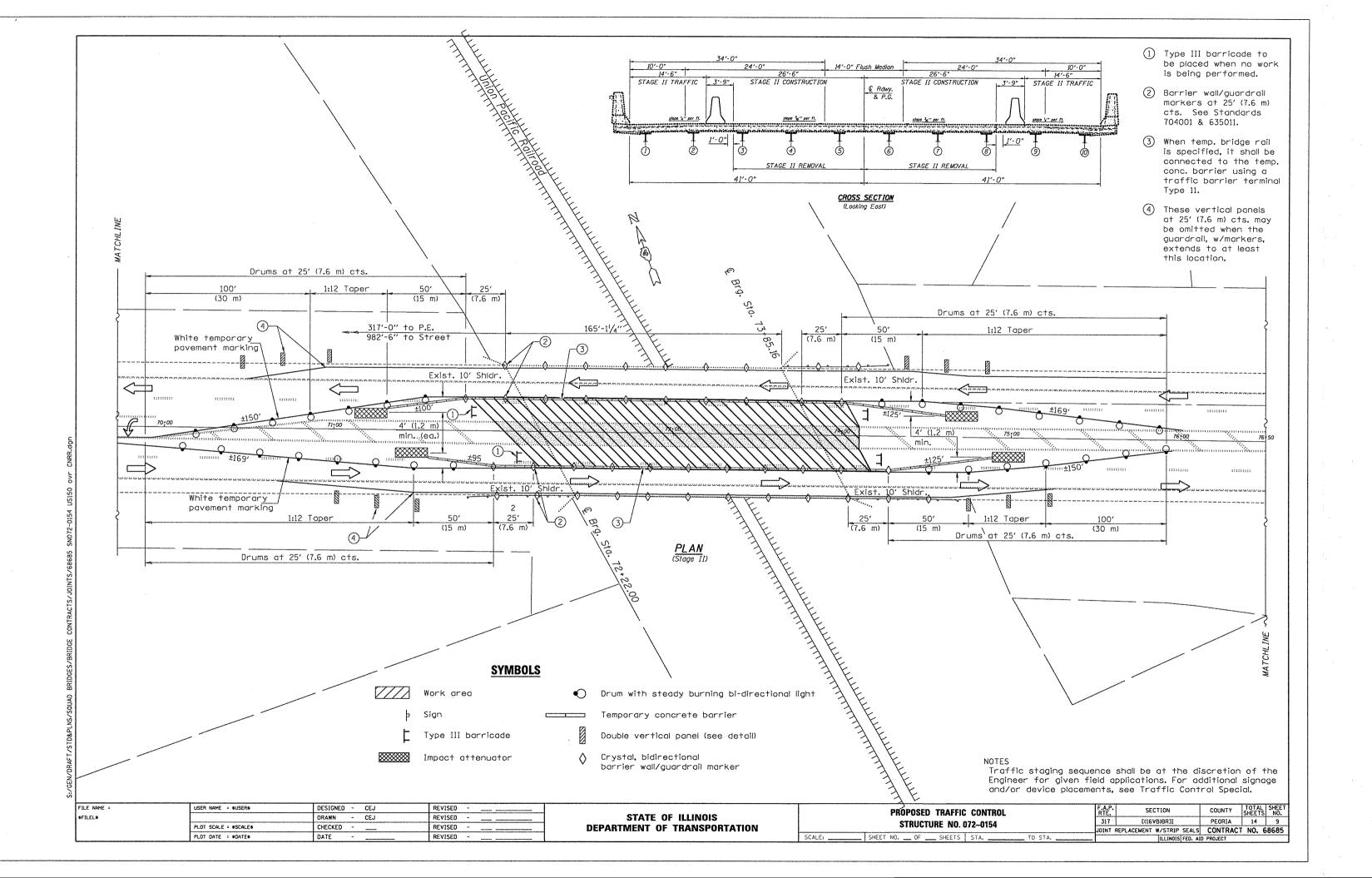
N.Abut. Rehab, Brgs./Jt. Repl. CONTRACT NO. 68995

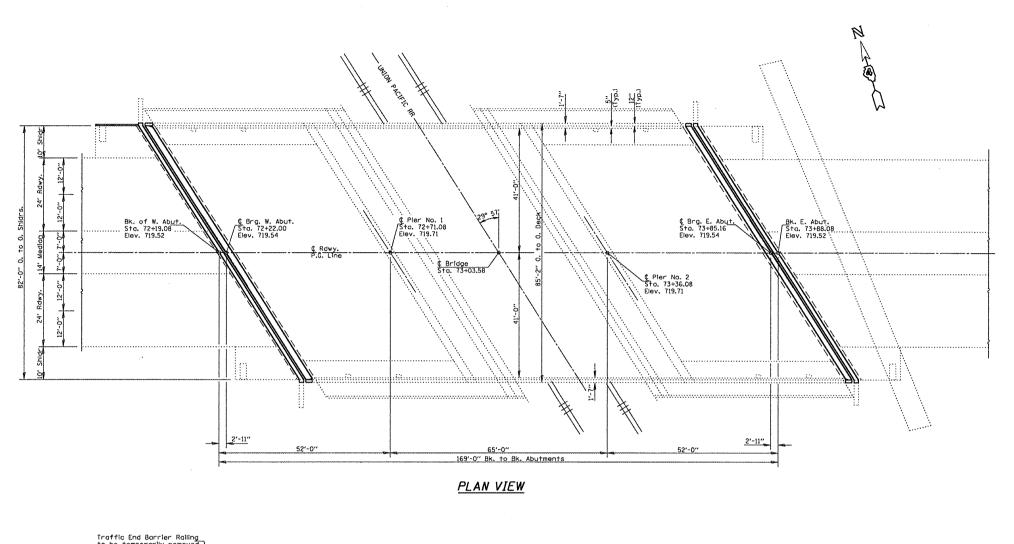












GENERAL NOTES

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 hild for the work.

rprice bid for the work.

Reinforcement bars shall conform to the requirements of ASTM A 706
Gr 60. See Special Provisions

Reinforcement bars designated (E) shall be epoxy coated.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The deck surface shall have it's final finish tined according to Article 420.09(e)(I) of the Standard Specifications. Cost included with Concrete Superstructure.

Joint openings shall be adjusted according to Article 520.04 of the Standard Specifications when the deck is poured at an ambient temperature other than 50°F.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

Troffic for Barriers Rolling to be temporally renoved stored, one reinstead. (Typ. 86. 8 St corrected. (Typ. 80. en. en.) ELEVATION ELEVATI

TOTAL BILL OF MATERIAL

	TOTAL BILL OF MAT	EMIAL	
1	ITEM	Unit	Quantity
*	Protective Coat	Sq.Yd.	46
	Concrete Removal	Cu.Yd.	29.5
	Concrete Superstructure	Cu.Yd.	29.5
	Reinforcement Bars, Epoxy Coated	Pound	3043
	Bar Splicers	Each	48
	Preformed Joint Strip Seal	Foot	194

* Apply to new concrete only

FIELD UNITS f'c = 3,500 psi fy = 60,000 psi (Reinf.)

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

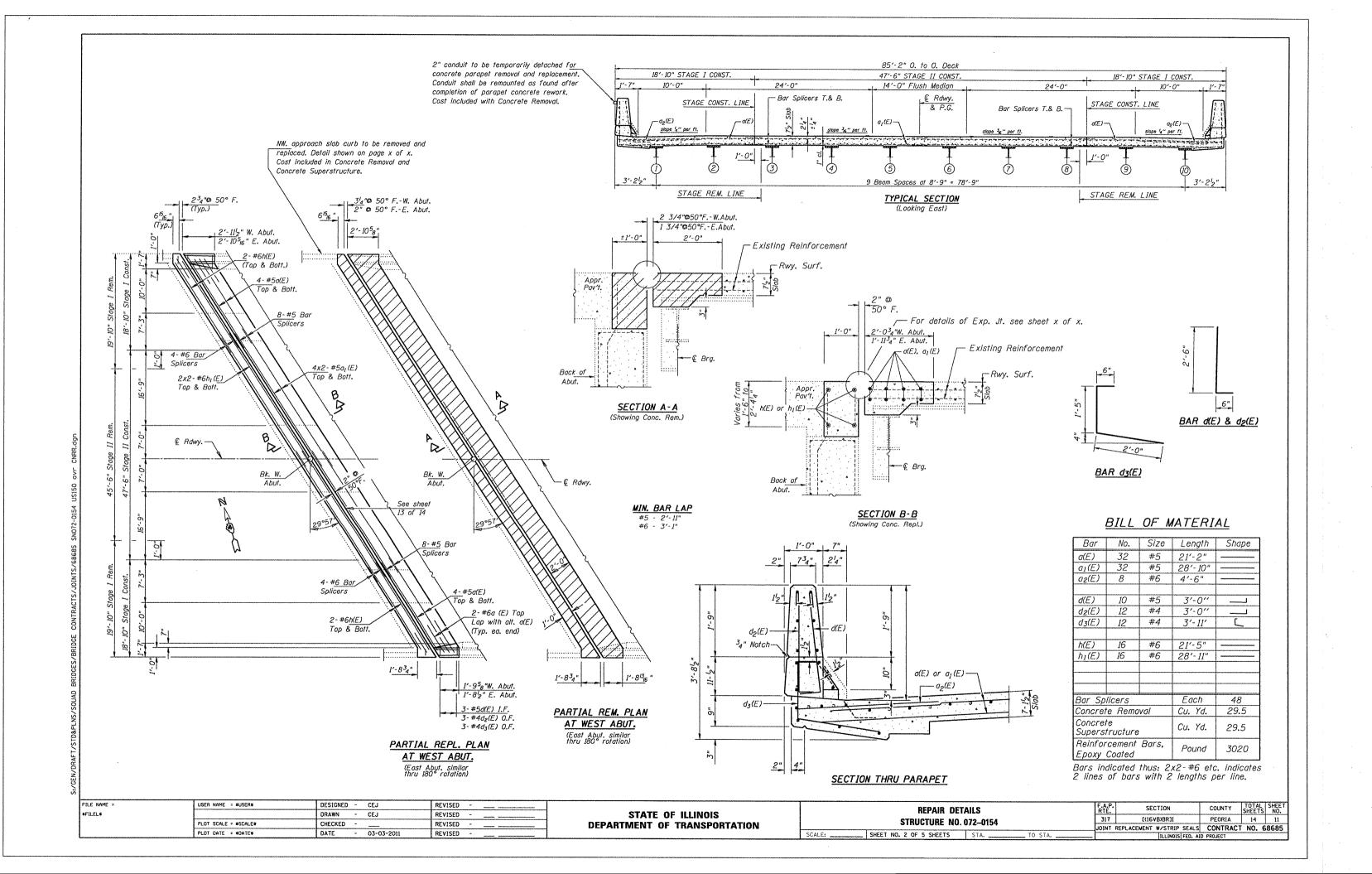
DESIGN STRESSES

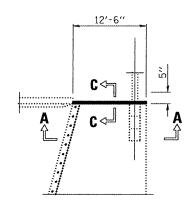
	PLAN & Structure	ELEVATION NO. 072-0	-			
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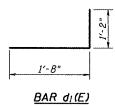
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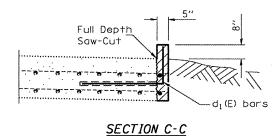
JOINT REPLACEMENT W/STRIP SEALS CONTRACT NO. 68685







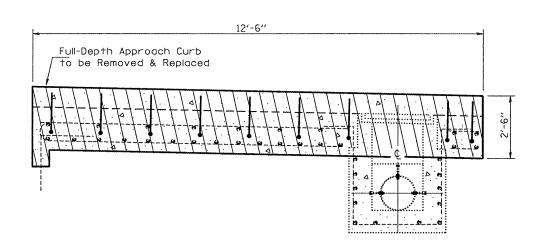
EXISTING DETAIL PLAN

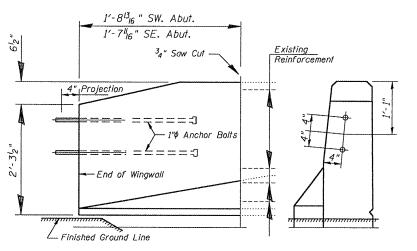


Hatched area indicate Concrete Removal and Concrete Superstructure.

New concrete curb shall be attached to the existing approach slab with bent reinforcement bars, drilled and epoxied on 12" cts. into the saw-cut vertical face of the slab as shown.

SECTION A-A



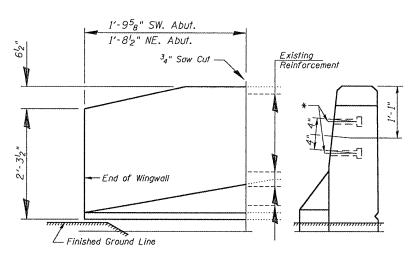


ELEVATION

END VIEW

SOUTH PARAPET AT EAST END

NOTE: To be used with Traffic Barrier Terminal Type 5 (see Standard 631026)



ELEVATION

END VIEW

NORTH PARAPET AT EAST END SOUTH PARAPET AT WEST END

*NOTE: Existing steel rail to be attached to new concrete. Cost included with Concrete Superstructure.

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d1(E)	12	#4	2'-10''	

Concret	e Remo	val	Cu. Yd.	0.5
Concret Supers	te tructure		Cu. Yd.	0.5
Reinforcement Bars, Epoxy Coated			Pound	23

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS

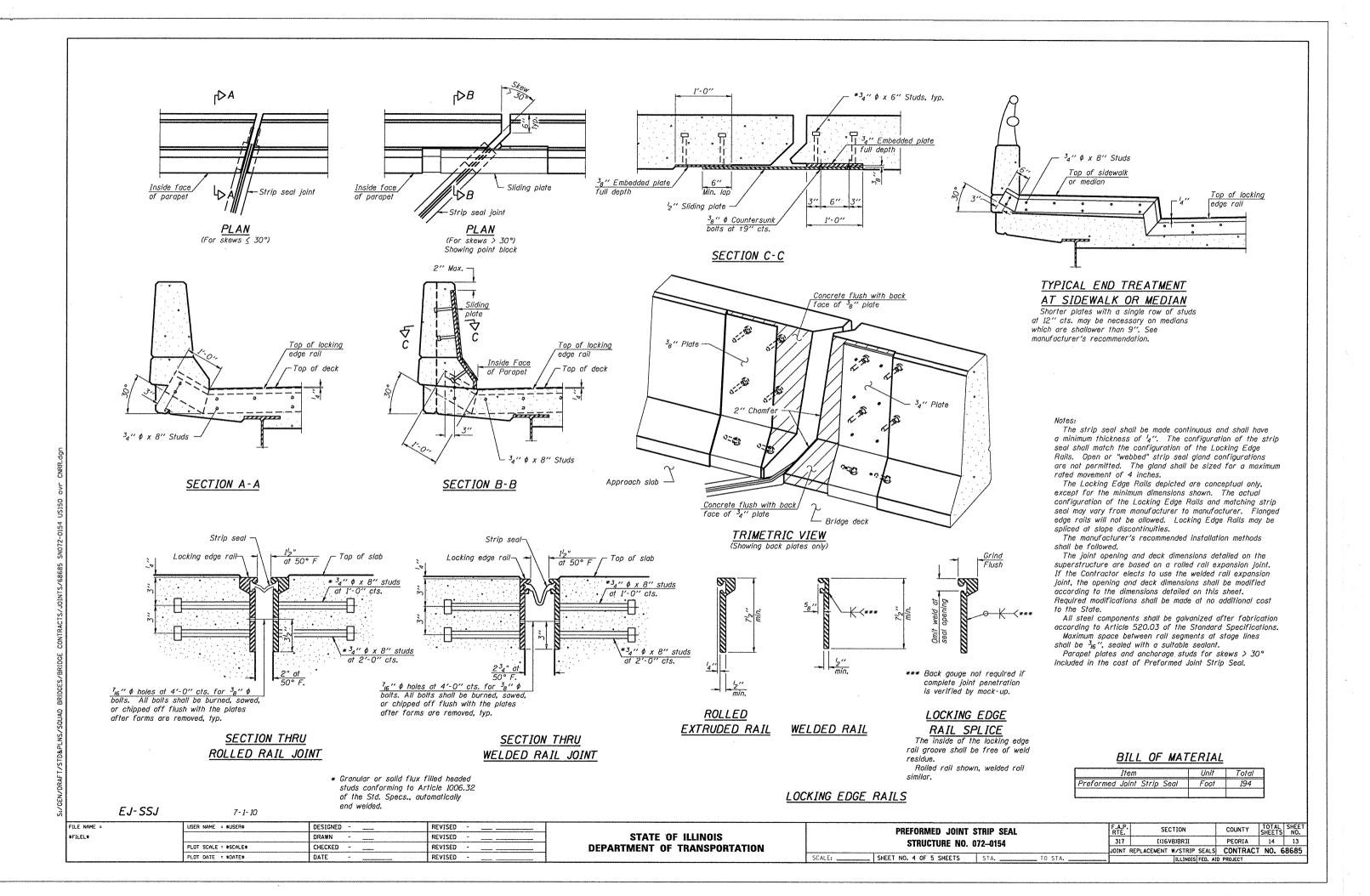
STRUCTURE NO. 072--0154

LE: ______ SHEET NO. 3 OF 5 SHEETS | STA. ______ TO STA. ____

RTE. SECTION COUNTY TOTAL SHEET NO.

317 [(16VB)BR31] PEORIA 14 12

JOINT REPLACEMENT W/STRIP SEALS CONTRACT NO. 68685



STANDARD BAR SPLICER ASSEMBLY

Minimum Lap Lengths									
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5				
3, 4	1'-5''	1'-11''	2'-1"	2'-4"	2'-3"				
5	1'-9''	2'-5"	2'-7"	2'-11"	2'-10"				
6	2'-1"	2'-11''	3'-1"	3'-6"	3'-4"				
7	2'-9"	3'-10''	4'-2"	4'-8''	4'-6"				
8	3'-8"	5'-1"	5′-5″	6'-2"	5'-10"				
9	4'-7"	6'-5"	6'-10''	7'-9"	7'-5"				

Table 1: Black bar, 0.8 Class C

Table 2: Black bar, Top bar lap, 0.8 Class C

Table 3: Epoxy bar, 0.8 Class C

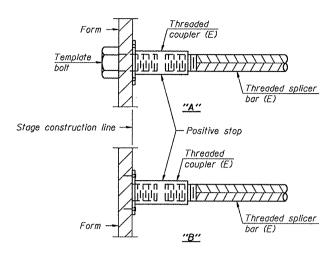
Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Table 5: Epoxy bar, Top bar lap, Class B

Threaded splicer bar length = min. lap length + $1'_2$ " + thread length

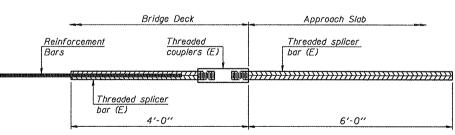
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length
Bridge Deck	#5	32	4
Approach Block	#6	16	3



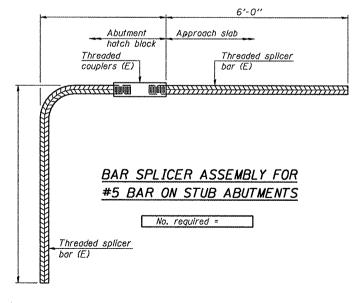
INSTALLATION AND SETTING METHODS

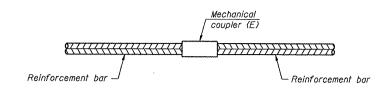
"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E): Indicates epoxy coating.



BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =





STANDARD MECHANICAL SPLICER

[

<u>NOTES</u>

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See special provision for Mechanical Splicers.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

7-1-10

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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

BAR	SPLICER	ASSEMBLY	AND	MECHANICAL	SPLICER	DETAILS	~
		STRUC	TURE	NO. 072-0154			

SHEET NO. 5 OF 5 SHEETS STA. ______TO STA. _____

F.A.P. RTE.	SEC	CTION		COUNTY	TOTAL	SHEET NO.
317	[(16)	/B)BR)I		PEORIA	14	14
 TNIOL	REPLACEMENT	W/STRIP	SEALS	CONTRACT	NO. 6	8685
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