#### INDEX OF SHEETS

1. Cover Sheet

0

C. \*1

\* 3

 $\circ$ 

- 2. Summary of Quantities
- 3. General Notes & Standards
- 4. Traffic Control Plan Stage I
- 5. Traffic Control Plan Stage I
- 6. Traffic Control Plan Stage II
- 7. Traffic Control Plan Stage II
- 8. Plan & Elevation Structure No. 081-0038
- 9. Details Structure No. 081-0038
- 10. Preformed Joint Strip Seal Details SN 081-0038
- 11. Bar Splicer Assembly and Mechanical Assembly Details SN 081-0038

#### STATE OF ILLINOIS

## DEPARTMENT OF TRANSPORTATION

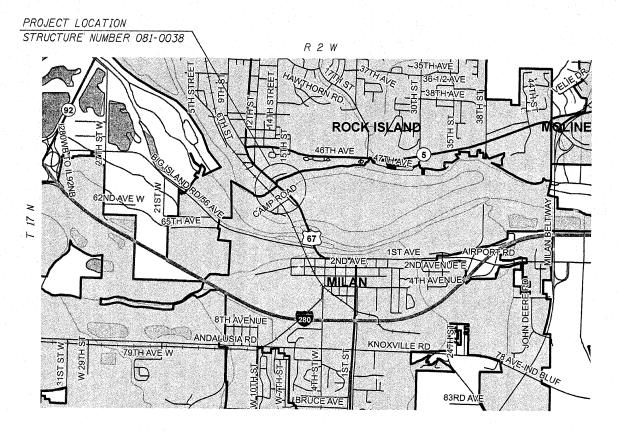
**DIVISION OF HIGHWAYS** 

## PROPOSED HIGHWAY PLANS

FAP ROUTE 599 (US 67) SECTION 17(D)BR-M

## BRIDGE REPAIRS ROCK ISLAND COUNTY

C-92-058-10



GROSS LENGTH = 705.5 FT. = 0.134 MILE NET LENGTH = 705.5 FT. = 0.134 MILE

CONTRACT NO. 64F94

J.U.L.I.E.

OR 811

1-800-892-0123

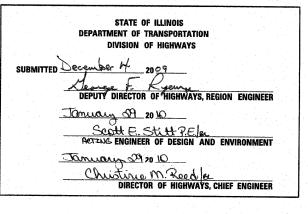
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION

PROJECT ENGINEER: Mahmoud Etemadi 815/284-5393

#### D-92-034-10





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

# SUMMARY OF QUANTITIES

100% State SFTY-2A

paycode	description	units	quantity
50102400	CONCRETE REMOVAL	CU YD	55.
50300255	CONCRETE SUPERSTRUCTURE	CU YD	55.
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	488
50800515	BAR SPLICERS	EACH	6
52000110	PREFORMED JOINT STRIP SEAL	FOOT	40
<u>52000365</u>	NEOPRENE EXPANSION JOINT 6 1/2"	FOOT	6
67100100	MOBILIZATION	L SUM	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	125
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	S0 FT	417
70400100	TEMPORARY CONCRETE BARRIER	FOOT	912.
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	912.
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	324
78300100	PAVEMENT MARKING REMOVAL	SQ FT	115
Z0024476	FLEXIBLE DELINEATOR MAINTENANCE	EACH	100
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	

	FILE NAME =	USER NAME = linkdj	DESIGNED	REVISED -	_
	0:\BR\CADD plans\Rock Island County\0816	038\12204composite.dgn	DRAWN	REVISED -	
		PLOT SCALE = 50.0000 '/ IN.	CHECKED	REVISED -	
i		PLOT DATE = Tue Dec 08 08:28:22 2009	DATE	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		Summary	or una	inuues	
CALE:	CUECT NO	05 6	nice te	CTA	 -

 F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
599	17(D)BR-M	Rock Island	11	2
		CONTRACT	NO. 6	4F94
	THE THOTE SED. A	D DDO IFCT		

### **GENERAL NOTES**

The final top four inches of soil in any right-of-way area disturbed by the Contractor must be capable of supporting vegetation. The soil must be from the A horizon (zero to 2' deep) of soil profiles of local soils.

All Borrow/Waste/Use sites must be approved by the Department prior to removing any material from the project or initiating any earthmoving activities, including temporary stockpiling outside the limits of construction.

The Contractor shall seed all disturbed areas within the project limits. Seeding Class 4 or 2A shall be used, except in front of properties where the grass will be mowed, then use Seeding, Class 1. Class 2A shall be used on front slopes and ditch bottoms. Class 4 shall be used behind Type A gutter, on all backslopes and areas behind the backslope, and beyond the toe of front slope on fill sections without ditches. This work will be included in the contract unit price per Cubic Yard for Concrete Removal.

Fertilizer shall be applied to all disturbed areas and incorporated into the seedbed prior to seeding or placement of sod at the rate specified in Sections 250 and 252 of the Standard Specifications. This work shall be included in the cost of CONCRETE REMOVAL.

Mulch Method II shall be applied over all seeded areas. This shall be included in the cost of the CONCRETE REMOVAL.

No permits from the agencies governing the Rock River have been obtained for this work. If any concrete or debris is dropped in the river it will require that the contractor obtain the permits. No debris can be dropped in the river without obtaining the permit and abiding by the requirements.

At bridge expansion joints, if temporary expansion joint bulkheads are attached to adjacent deck slabs or abutments for support, the Contractor shall cut the attachments as soon as the concrete has set to prevent joint damage due to horizontal contraction or expansion.

The Contractor shall be responsible for protecting utility property during construction operations as outlined in Article 107.31 of the Standard Specifications. A minimum of 48 hours advance notice is required for non-emergency work. The JULIE number is 800-892-0123.

### **STANDARDS**

701101-02 Off-Road Operations, Multilane, 4.5 m (15') to 600 mm (24") From Pavement Edge

701426-03 Lane Closure, Multilane, Intermittent or Moving Operation, for Speeds > 45 MPH

701606-06 Urban Lane Closure, Multilane, 2W with Mountable Median

701801-04 Lane Closure, Multilane 1W or 2W Crosswalk or Sidewalk Closure

701901-01 Traffic Control Devices

704001-06 Temporary Concrete Barrier

720001-01 Sign Panel Mounting Details

720006-02 Sign Panel Erection Details

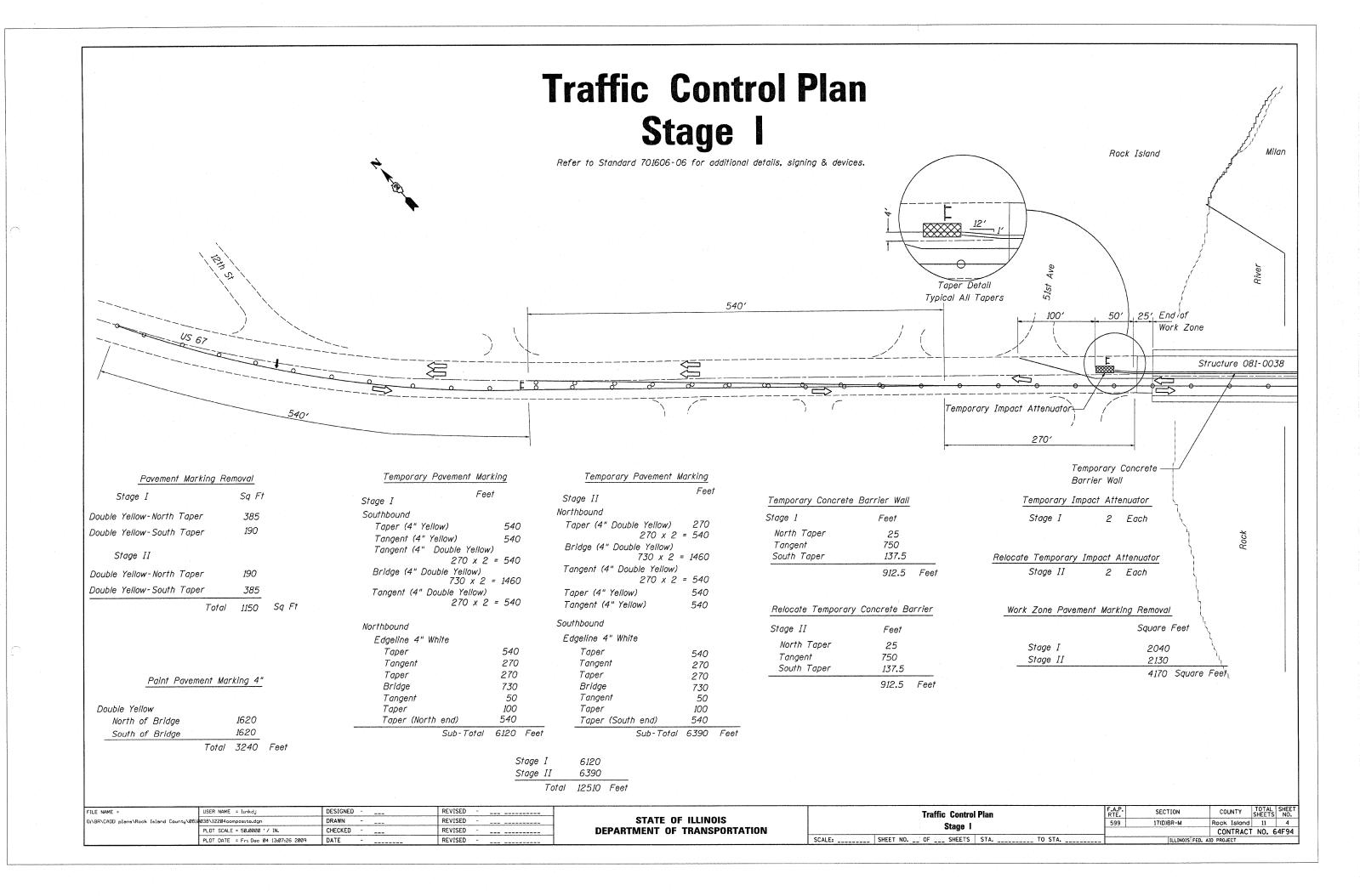
720001-01 Sign Panel Mounting Details

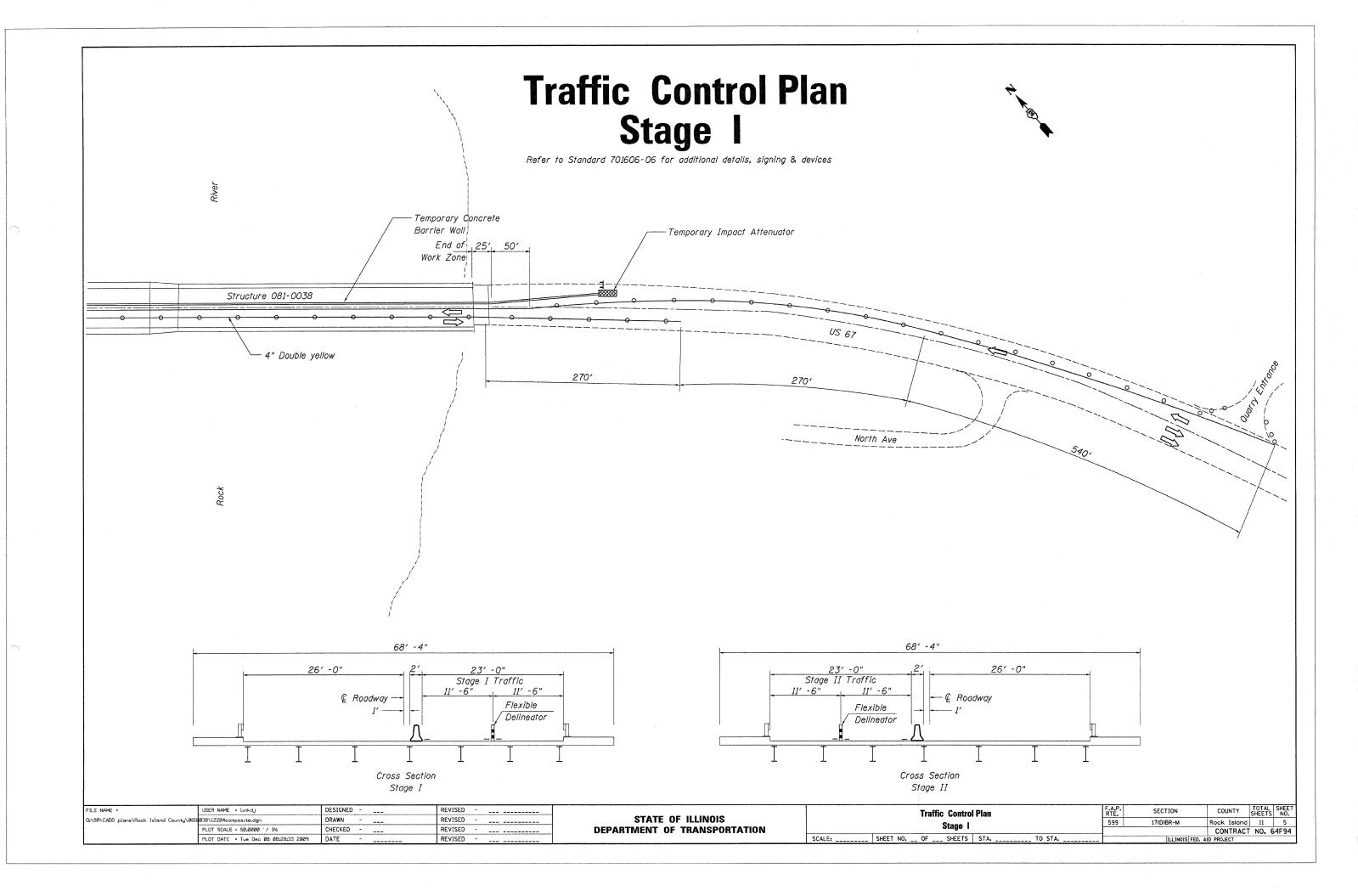
728001-01 Telescoping Steel Sign Support

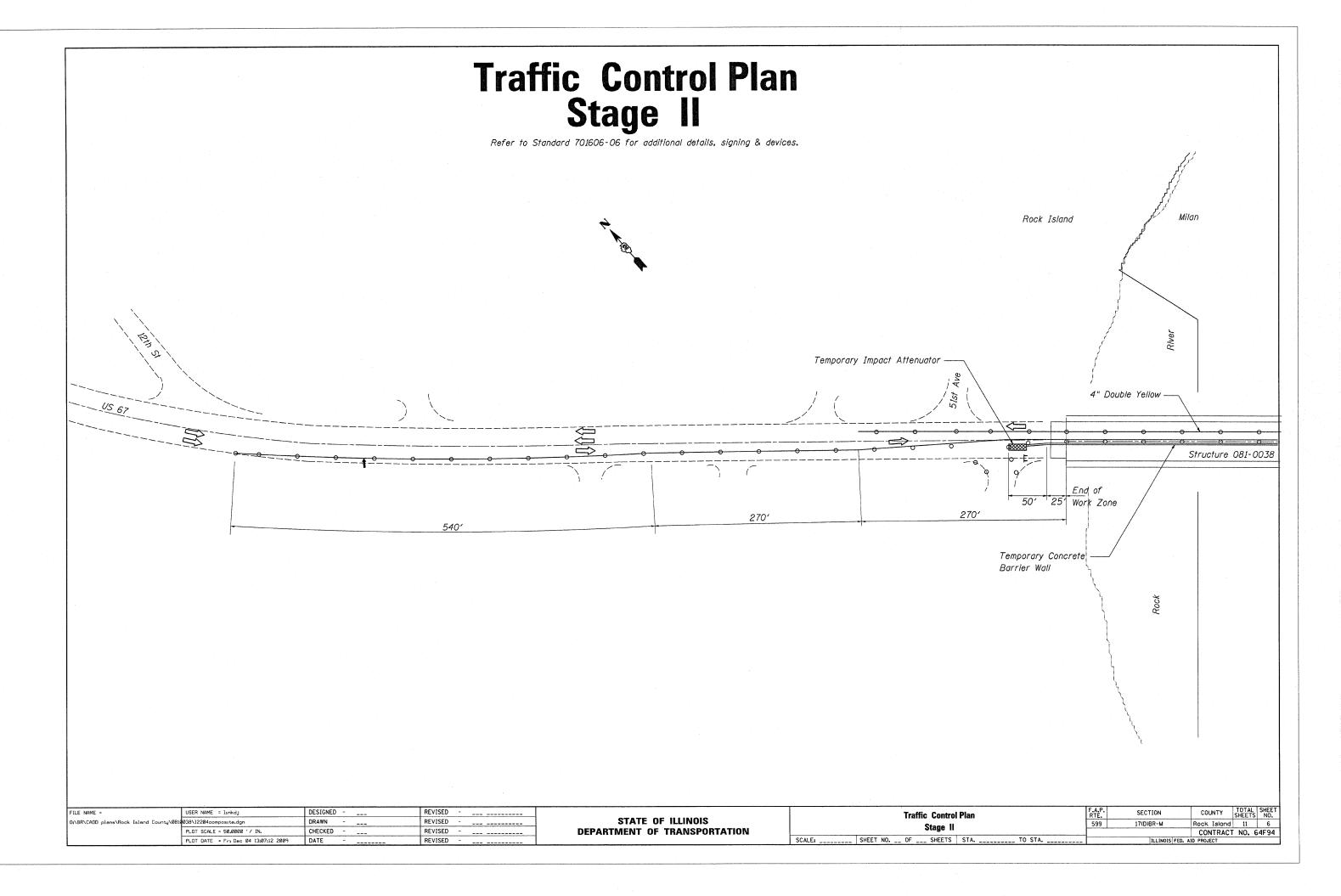
729001-01 Applications of Types A and B Metal Posts (For Signs & Markers)

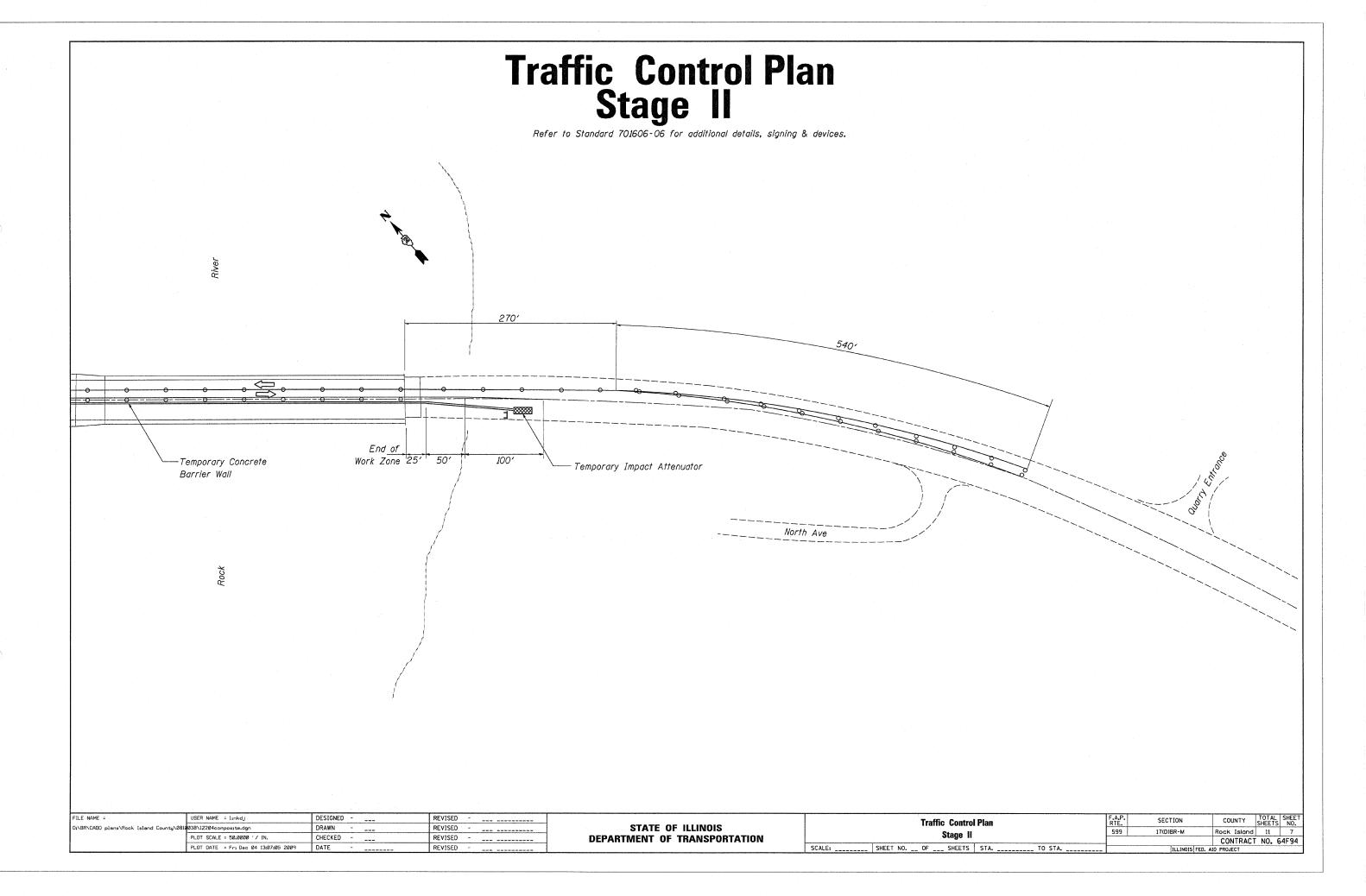
FILE NAME = USER NAME = linkdj	DESIGNED	REVISED -
0:\BR\CADD plans\Rock island County\0819038\12204composite.dgn	DRAWN	REVISED
PLOT SCALE = 50.0000 '/ IN.	CHECKED	REVISED
PLOT DATE ≈ Fri Dec 04 13:07:32 2009	DATE	REVISED

	General Notes	F.A.P. RTÉ.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
	Standards	599	17(D)BR-M	Rock Island 11 3
1	Juliuaius			CONTRACT NO. 64F94
SCALE: _	SHEET NO OF SHEETS   STA TO STA		ILLINOIS FED. A	ID PROJECT

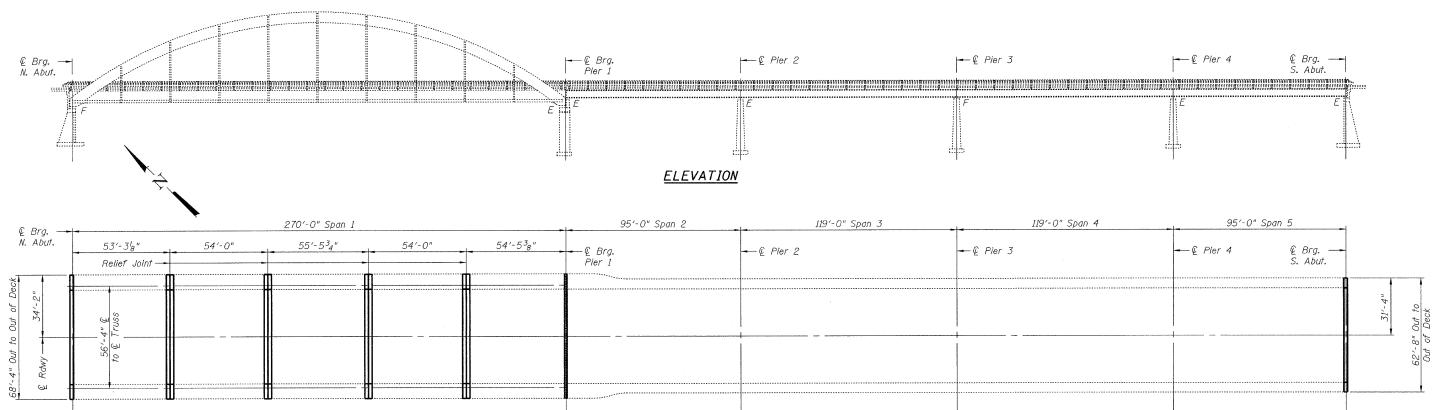








## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



PLAN

#### GENERAL NOTES

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

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

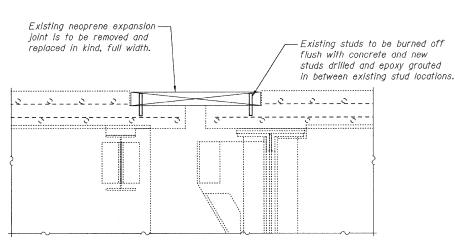
Reinforcement bars designated (E) shall be epoxy coated.

Plan dimensions and details relative to existing plans are subject to nominal construction 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 at the unit price bid for the work.

Joint plates and attached bars shall be shop painted with the inorganic zinc rich primer. No field paint required.

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.

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



PIER 1 NEOPRENE EXPANSION JOINT REPLACEMENT

#### TOTAL BILL OF MATERIAL

UNIT	QUANTITY
Cu, Yd.	55.3
Cu. Yd.	55.3
Foot	404
Pound	4,880
Each	62
Foot	69
	Cu. Yd. Cu. Yd. Foot Pound Each

#### PLAN AND ELEVATION SN 081-0038

SHEET NO. 1	F.A. RTE.	SEC1	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
011221 1101 1	599	17(D)BR-M		Rock Island	11	8	
4 SHEETS		TUDBK-M		CONTRACT	NO. (	64F94	
	FED. RO	DAD DIST. NO.	ILLINOIS	FED. A	ID PROJECT		

DESIGNED ATH IJL

EXAMINED STRUCTURES

EXAMINED STRUCTURES

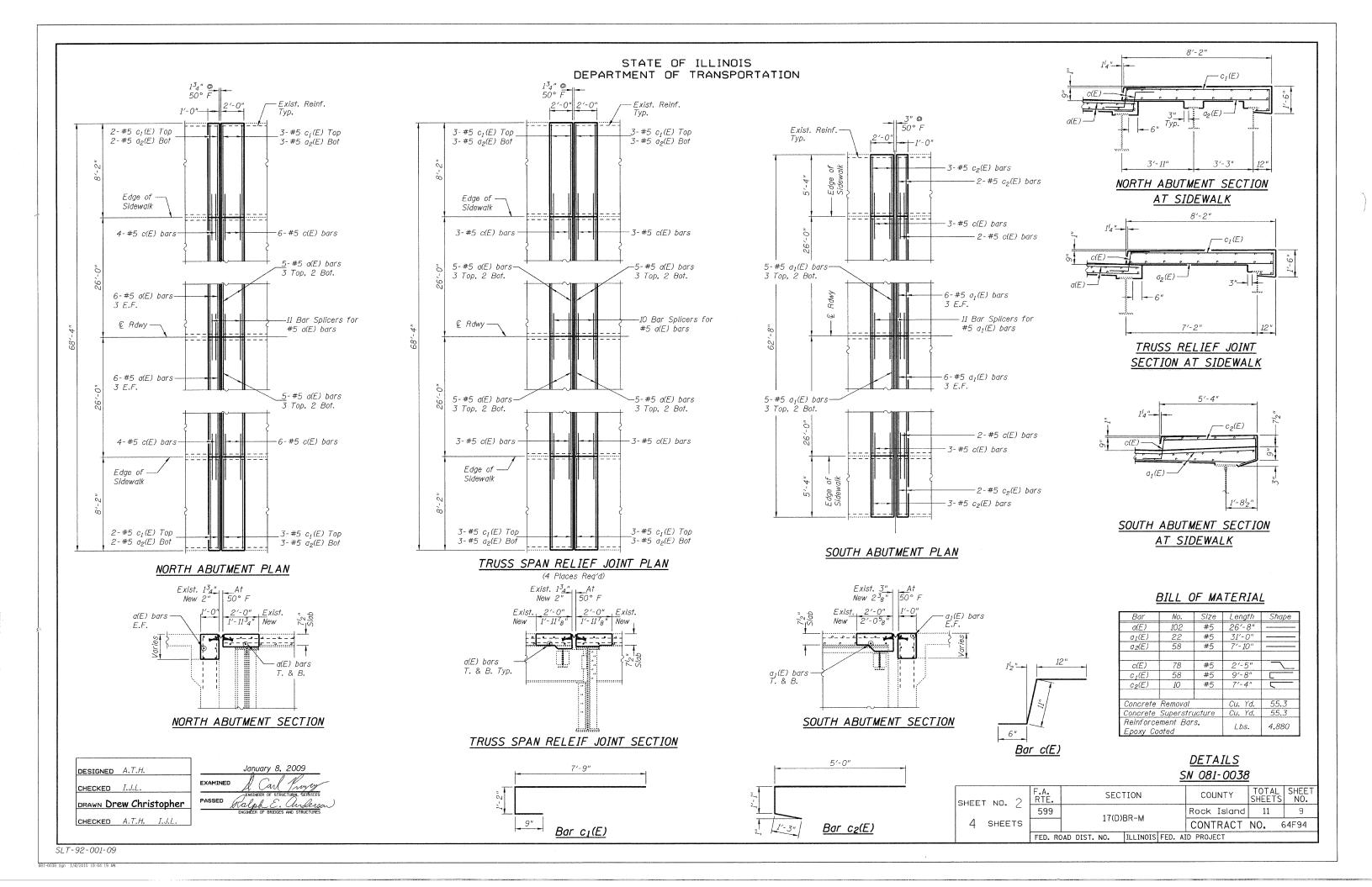
ENGINEER OF STRUCTURES

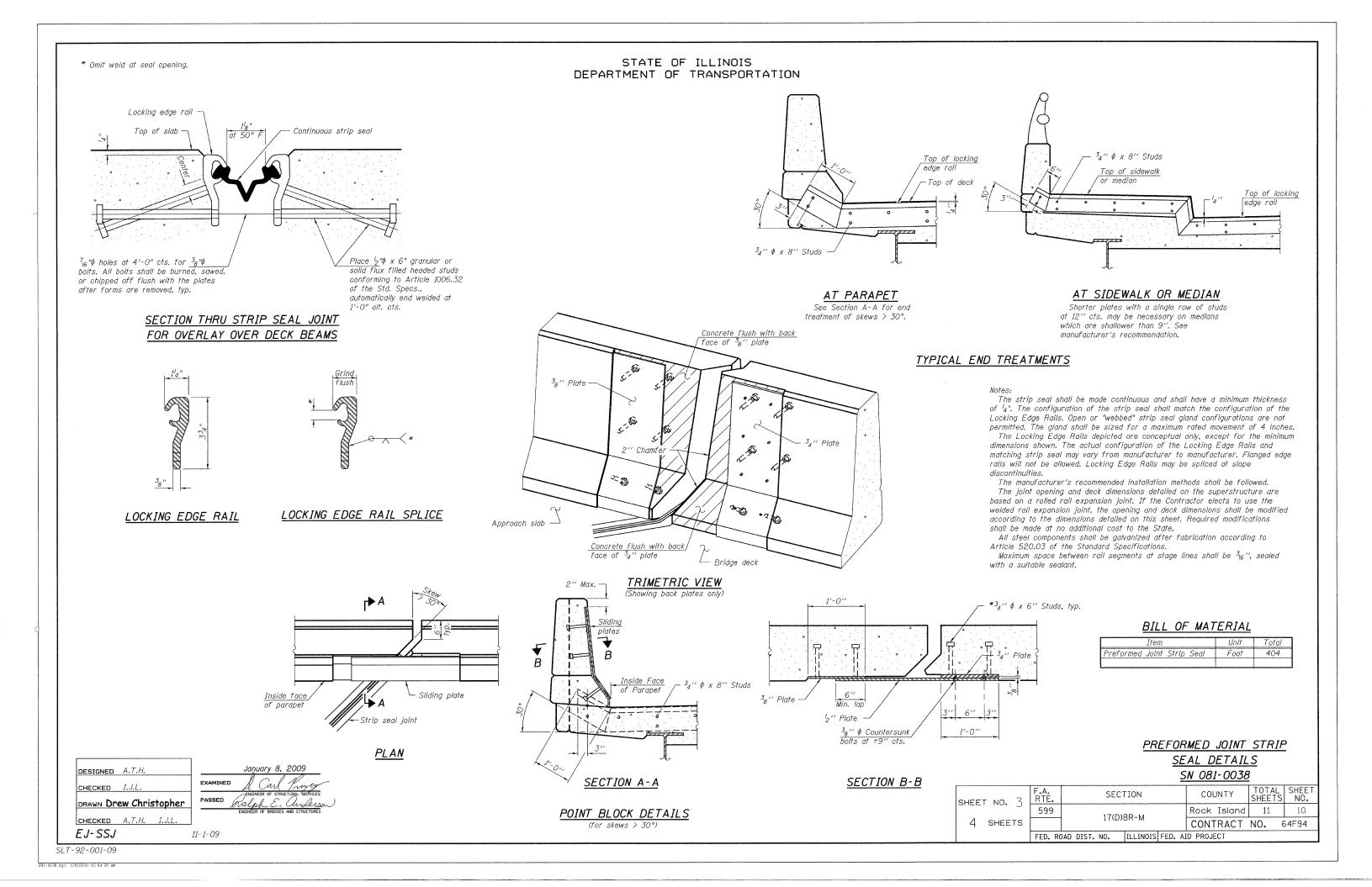
PASSED ALL ALL

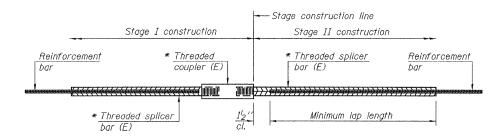
ENGINEER OF BRIDGES AND STRUCTURES

081-004625 #

Expires: November 30, 2010







#### STANDARD BAR SPLICER ASSEMBLY

	Minima	um Lap Leng	ths	
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4
3, 4	1'-5''	1'-11''	2'-1''	2'-4''
5	1'-9''	2'-5"	2'-7"	2'-11''
6	2'-1''	2'-11''	3'-1''	3′-6′′
7	2'-9''	3'-10''	4'-2''	4'-8''
8	3′-8′′	5′-1′′	5′-5′′	6'-2"
9	4'-7"	6'-5"	6'-10"	7'-9''

Table 1: Black bar, 0.8 Class C

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

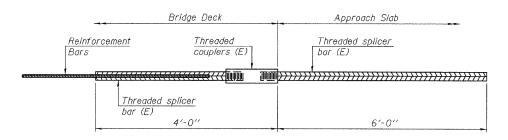
Table 3: Epoxy bar, 0.8 Class C

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

Threaded splicer bar length = min. lap length +  $1_2^{l}$ " + 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

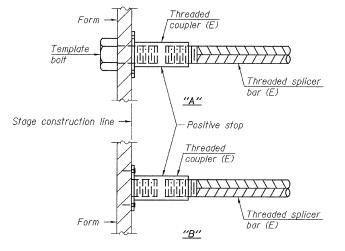


### BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required =

	4 0 - 0000
DESIGNED A.T.H.	January 8, 2009
CHECKED I.J.L.	EXAMINED & Carl Prayey
DRAWN Drew Christopher	PASSED Kalph E. andersa
•	ENGINÉER OF BRIDGES AND STRUCTURES
CHECKED A.T.H. I.J.L.	
BSD-1	11-1-09

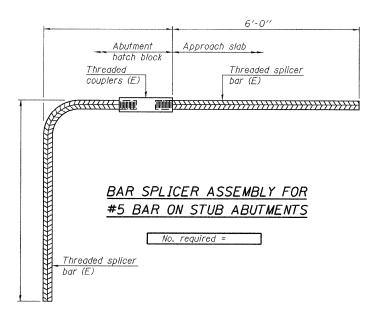
### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

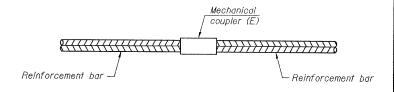


#### INSTALLATION AND SETTING METHODS

"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.





#### STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Deck	#5	50
Abutment	#5	12

#### <u>NOTES</u>

Splicer bars shall be deformed  $\overline{\textit{with threaded}}$  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.

#### BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS SN 081-0038

SHEET NO. 4	F.A. RTE.	SECTION			COL	JNTY	TOTAL SHEETS	SHEET NO.
	599	17(D)BR-M			Rock	Island	11	11
		T ((D)B((-M)			CONT	RACT	NO. 6	64F94
	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT					

81-0038.dgn 1/8/2010 10:04:21

SLT-92-001-09