04-27-12 LETTING ITEM 108

FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

**DIVISION OF HIGHWAYS** 

**PROPOSED** HIGHWAY PLANS

F.A.I. ROUTE 64 (I-64) **SECTION D7 BRIDGE REPAIRS 2012-2** 

**CONTRACT MAINTENANCE BRIDGE REPAIRS WAYNE COUNTY** 

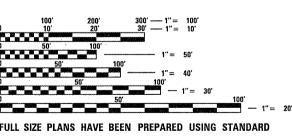
C-97-085-11

ADT = 9700 (2007)

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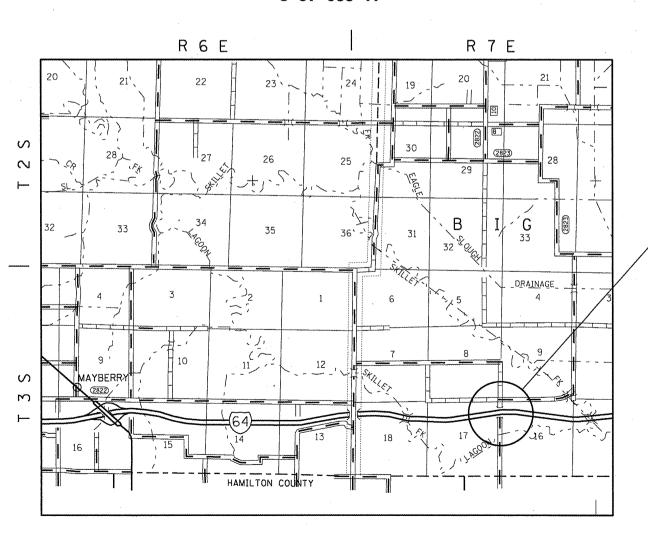


ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: TOM RONAN PROJECT MANAGER: JENNIFER WENTHE PHONE 217-342-8361

CONTRACT NO. 74536



GROSS LENGTH = 540 FT. = 0.10 MILES

NET LENGTH = 540 FT. = 0.10 MILES

OF THE STATE OF ILLINOIS

D-97-038-11

64 D7 BRIDGE REPAIRS 2012-2 WAYNE

ILLINOIS CONTRACT NO. 74536



PROJECT LOCATION SECTION D7 BRIDGE REPAIRS 2012-2 S.N. 096-0039

> STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION Much 23 20 12 John D. Baranzelli, P.E. a. ENGINEER OF DESIGN AND ENVIRONMENT Mark 23 20 12 William R. Frey Brawns DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY

# INDEX OF SHEETS

SHEET NO.	ITEM
1	COVER SHEET
2	INDEX OF SHEETS AND GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6	SCHEDULE OF QUANTITIES
7	PLAN DETAIL
8-9	STAGE I TRAFFIC CONTROL
10-11	STAGE II TRAFFIC CONTROL
12-13	PAVEMENT MARKING DETAILS
14-22	STRUCTURE REPAIR PLANS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 22:

STD. NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420701-02	PAVEMENT FABRIC
701101-02	OFF-ROAD OPERATIONS, MULTI-LANE, 15' TO 24" FROM PAVEMENT EDGE AWAY
701400-05	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-06	LANE CLOSURE, FREEWAY/EXPRESSWAY
701402-09	LANE CLOSURE. FREEWAY/EXPRESSWAY, WITH BARRIER
701426-04	LANE CLOSURE, MULTI-LANE. INTERMITTENT OR MOVING OPER FOR SPEEDS >= 45 MPH
701901-02	TRAFFIC CONTROL DEVICES
704001-07	TEMPORARY CONCRETE BARRIER
780001-03	TYPICAL PAVEMENT MARKINGS

# GENERAL NOTES

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS; THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012; AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THIS PROJECT IS LOCATED ON FAI 64 IN WAYNE COUNTY, APPROXIMATELY 5 MILES EAST OF THE IL 242 INTERCHANGE AT STRUCTURE NUMBER 096-0039. THE WORK INCLUDED IN SECTION D7 BRIDGE REPAIRS 2012-2 CONSISTS OF PCC BASE COURSE WIDENING, TRAFFIC CONTROL, BRIDGE DECK REPAIRS, PAVEMENT MARKING, AND ANY OTHER WORK NECESSARY TO COMPLETE THE SECTION.

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURES HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING OF MATERIAL. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF THE WORK. THE CONTRACTOR WILL BE PAID FOR THE QUANTITY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

PAVEMENT MARKING SHALL BE APPLIED IN ACCORDANCE WITH SECTION 780 OF THE STANDARD SPECIFICATIONS.

THE TOTAL QUANTITY OF URETHANE PAVEMENT MARKING-LINE 4" CONSISTS OF 540 FEET OF WHITE AND 540 FEET OF YELLOW.

THE TOTAL QUANTITY OF URETHANE PAVEMENT MARKING-LINE 6" CONSISTS OF 135 FEET OF WHITE.

THE SAW CUT REQUIRED FOR THE PAVED SHOULDER REMOVAL SHALL BE INCLUDED IN THE COST OF PAVED SHOULDER REMOVAL AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. ANY EXCAVATION NECESSARY FOR CONSTRUCTION OF THE PCC BASE COURSE WIDENING, 10" SHALL BE INCLUDED IN THE COST OF THE PCC BASE COURSE WIDENING, 10" AND NO ADITIONAL COMPENSATION SHALL BE ALLOWED.

IN ADDITIONAL TO THE REQUIREMENTS FOR PORTABLE CHANGEABLE MESSAGE SIGNS IN ARTICLE 701.15(I), A LAPTOP COMPUTER TO CONTROL THE MESSAGE SIGNS SHALL ALSO BE SUPPLIED BY THE CONTRACTOR.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN THE CALCULATING PLAN QUANTITIES:

AGGREGATE SUBBASE

2.05 TONS/CU YD

FILE NAME :	USER NAME = steffenmk	DESIGNED -	REVISED -			INDEX OF SHEETS &				SECTION	COUNTY	TOTAL S	HEET
c:\pw_vork\pwidot\steffenmk\d0270599\D	74536-sht-index.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS						NZ BRINCE REPAIRS 2012-2	WAYNE	37,122,13	3
	PLOT SCALE = 100,0000 1/ 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	GENERAL NOTES						ACT NO. 74	536	
PI	PLOT DATE = 1/25/2012	DATE -	REVISED -		SCALE: NA	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	<u> </u>	ILLINOIS FED. AID PROJECT		C1 NO. 14	330

	SUMMARY OF QUANTITIES			100% STATE	TRUCTION TYPE CODE		SUMMARY OF QUANTITIES			100% STATE	CTION TYPE CODE
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0014		CODE NO	ITEM	UNIT	TOTAL	0014	
1101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	66	66		67100100	MOBILIZATION	L SUM	1	1	
35400500	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING	SO YD	580	580		70100207	TRAFFIC CONTROL AND PROTECTION, STANDARD 701402	EACH	1	1	
12001200	PAVEMENT FABRIC	SO YD	580	580		70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1	
14000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"	SO YD	434	434							
						70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5	
44004250	PAVED SHOULDER REMOVAL	SO YD	580	580							
	CONCOUNTS DEMONAL	OU VD				70300100	SHORT TERM PAVEMENT MARKING	FOOT	97	97	
50102400	CONCRETE REMOVAL	CU YD	9	9		70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	32	32	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	17.6	17.6							
						70400100	TEMPORARY CONCRETE BARRIER	FOOT	313	313	
50300260	BRIDGE DECK GROOVING	SO YD	441	441							
50300300	PROTECTIVE COAT	SO YD	14	14		70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	313	313	
30300300	PROTECTIVE COAT	30 10		14		78300100	PAVEMENT MARKING REMOVAL	SO FT	325	325	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	880	880							
						X 78009004	URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1080	1080	
50800515	BAR SPLICERS	EACH	8	8			MODIFIED				
50800530	MECHANICAL SPLICERS	EACH	80	80		78009006	URETHANE PAVEMENT MARKING - LINE 6"  MODIFIED	FOOT	135	135	
2000330	mediani dre di exderid	LAUII				Z0012113	BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE	SQ YD	441	441	
67000500	ENGINEER'S FIELD OFFICE. TYPE B	CAL MO	3	3			OVERLAY. 3				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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PLOT DATE = 1/25/2012

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DATE

REVISED -

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F.A.I. SECTION COUNTY TOTAL SHEET NO.

64 D7 BRIDGE REPAIRS 2012-2 WAYNE 22 3

CONTRACT NO. 74536

SUMMARY OF QUANTITIES

SHEET NO. 1 OF 2 SHEETS STA. TO STA.

	SUMMARY OF QUANTITIES	S	707	100% STATE	TRUCTION TYPE	T
CODE NO	ITEM	TINU	TOTAL OUANTITIES	0014	**************************************	
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	434	434		
Z0030250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1		
Z0030350	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3	EACH	1	1		
					,	

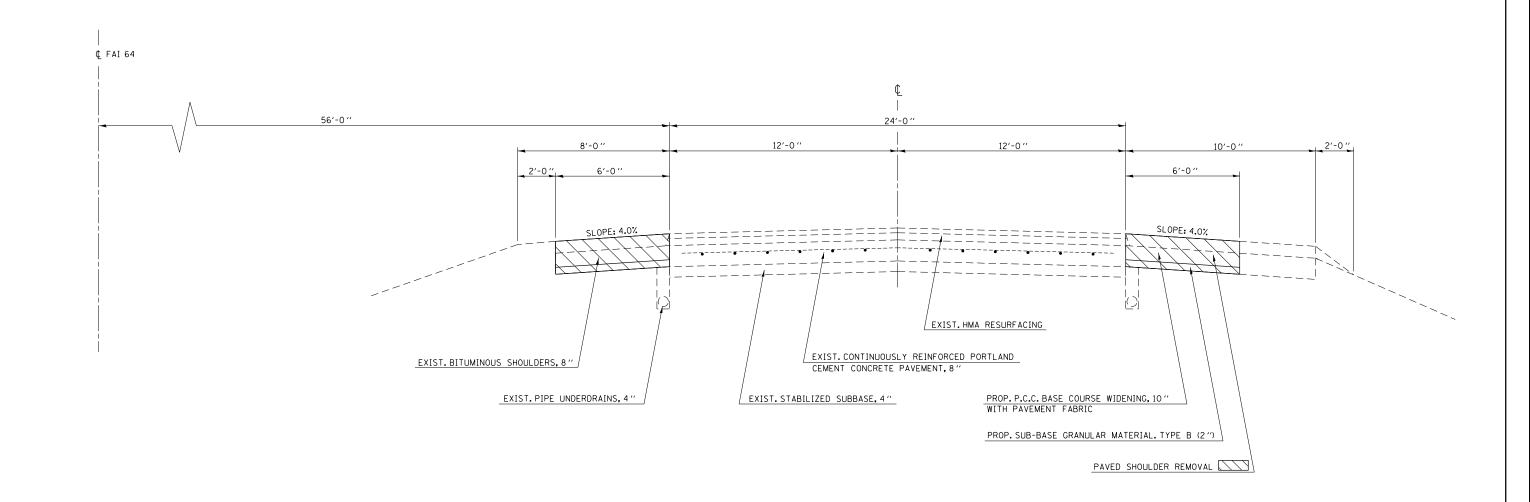
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	PLOT DATE = 1/25/2012	DATE -	REVISED -	

STATE	: OF	ILLINOIS	
DEPARTMENT	OF	TRANSPORTATION	

		SUMMARY OF	F.A.I. RTE.	SECTION	COUNTY	TOTAL				
			64	D7 BRIDGE REPAIRS 2012-2	WAYNE	22	4			
ı								CONTRAC	T NO.	74536
	SCALE: NA	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT				

# TYPICAL CROSS SECTION

STA. 4054+05 TO STA. 4056+60 STA. 4057+65 TO STA. 4059+45



NOTE: NOT DRAWN TO SCALE

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c:\pw_work\pwidot\steffenmk\d0270599\D	74536-sht-typicals.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		THIORE GIGGS SECTIONS	64 D7	7 BRIDGE REPAIRS 2012-2	WAYNE	22 5
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					CONTRACT	T NO. 74536
	PLOT DATE = 1/25/2012	DATE -	REVISED -		SCALE: NA	SHEET NO.1 OF 1 SHEETS STA. TO STA.			PROJECT	

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### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SH N
	64	D7 BRIDGE REPAIRS 2012-2	WAYNE	22	
			CONTRAC	T NO. 74	45
SCALE: NA SHEET NO. 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		

STATION	ΤO	STATION	URETHANE PAVEMENT MARKING - LINE 4"	URETHANE PAVEMENT MARKING - LINE 6"	PAVEMENT MARKING REMOVAL	SHORT TERM PAVEMENT MARKING	WORK ZONE PAVEMENT MARKING REMOVAL
			FOOT	FOOT	SQ FT	FOOT	SQ FT
	EB						
4054+05.00	ТО	4056+60.00	510.0	63.8	170.0	45.9	15.3
4056+60.00	ТО	4057+65.00	210.0	26.3	35.0	18.9	6. 3
4057+65.00	ТО	4059+45.00	360.0	45.0	120.0	32.4	10.8
-	TOTALS	5	1080.0	135.0	325.0	97.0	32.0

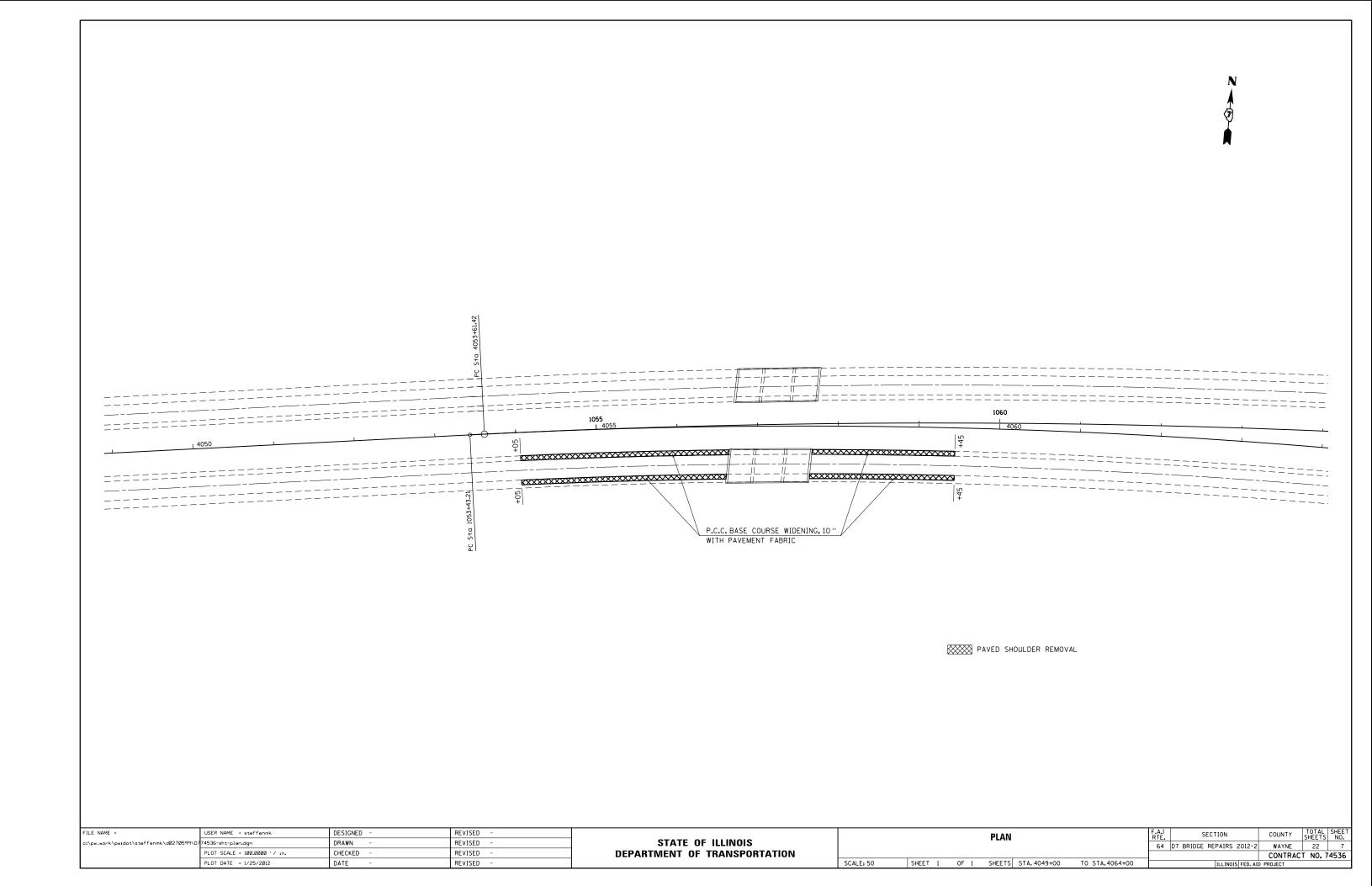
### PAVEMENT MARKING SCHEDULE

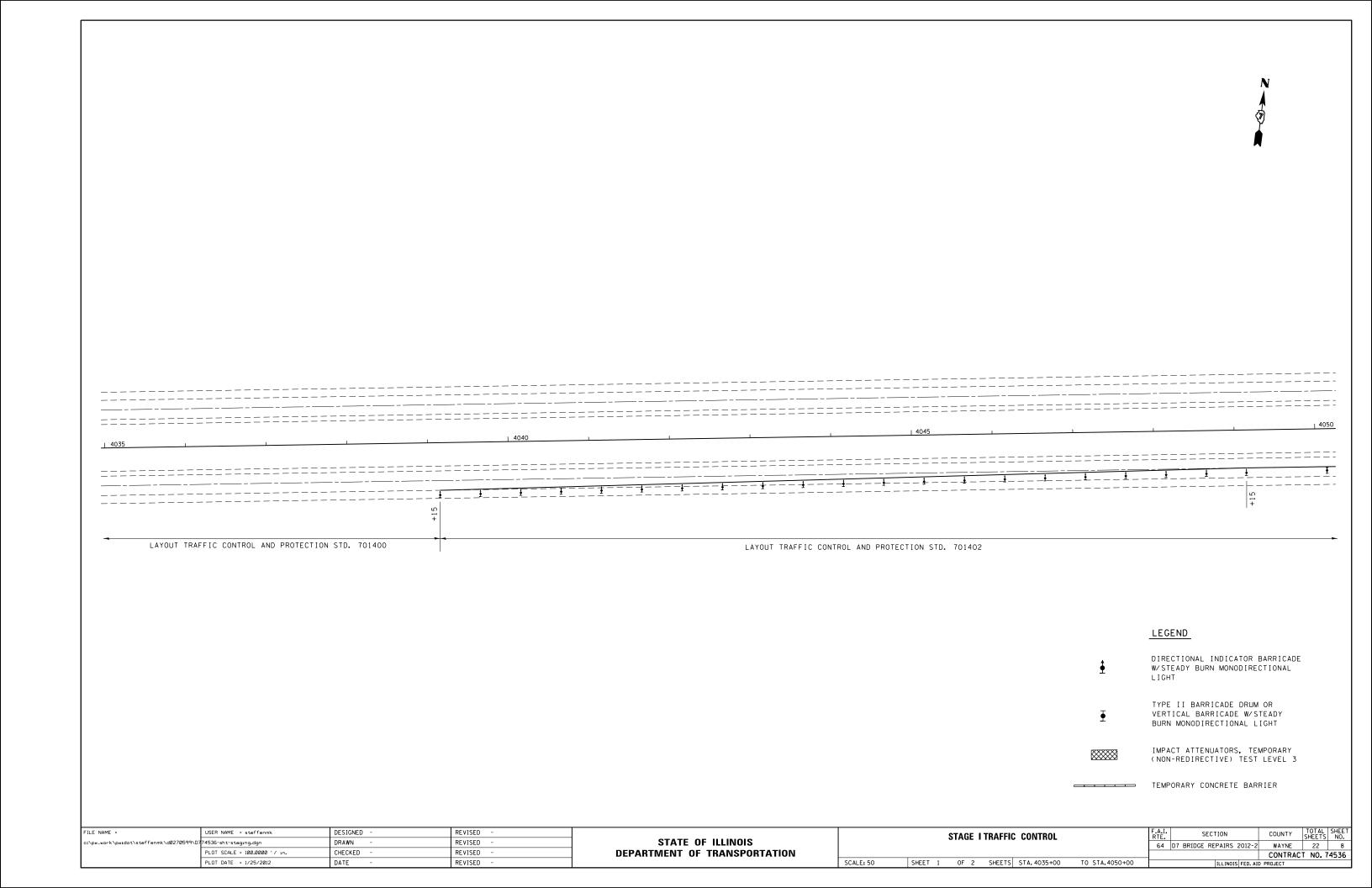
	STATION	ТО	STATION	SUBBASE GRANULAR MATERIAL, TYPE B	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING, 10"	PAVEMENT FABRIC	PAVED SHOULDER REMOVAL
				TON	SQ YD	SQ YD	SQ YD
		EB					
RT	4054+05.00	ТО	4056+60.00	19.4	170.0	170.0	170.0
LT	4054+05.00	ТО	4056+60.00	19.4	170.0	170.0	170.0
RT	4057+65.00	ТО	4059+45.00	13.7	120.0	120.0	120.0
LT	4057+65.00	ТО	4059+45.00	13.7	120.0	120.0	120.0
	1	TOTALS	5	66.0	580.0	580.0	580.0

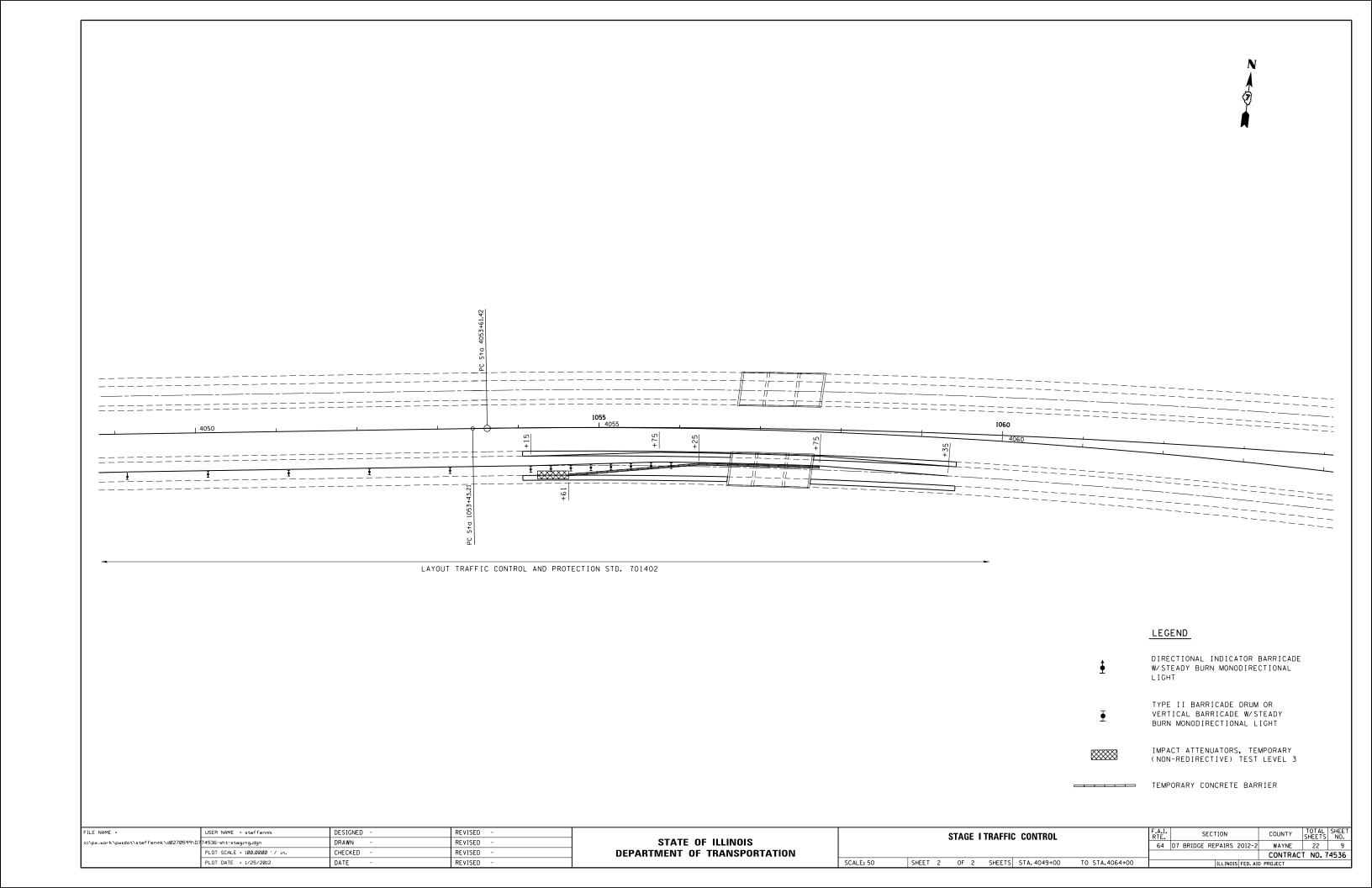
WIDENING SCHEDULE

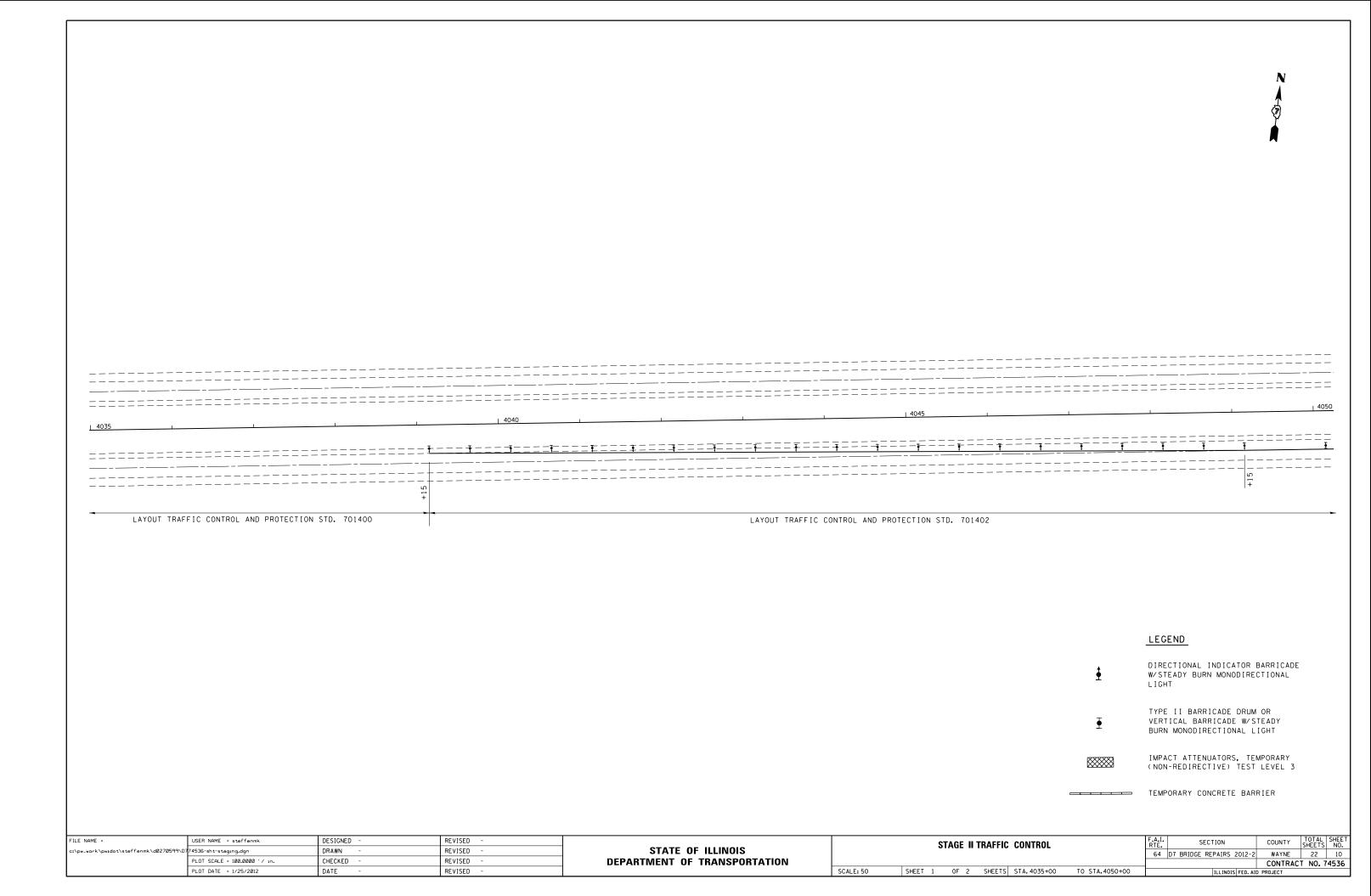
TRAFFIC CONTROL DEVICES

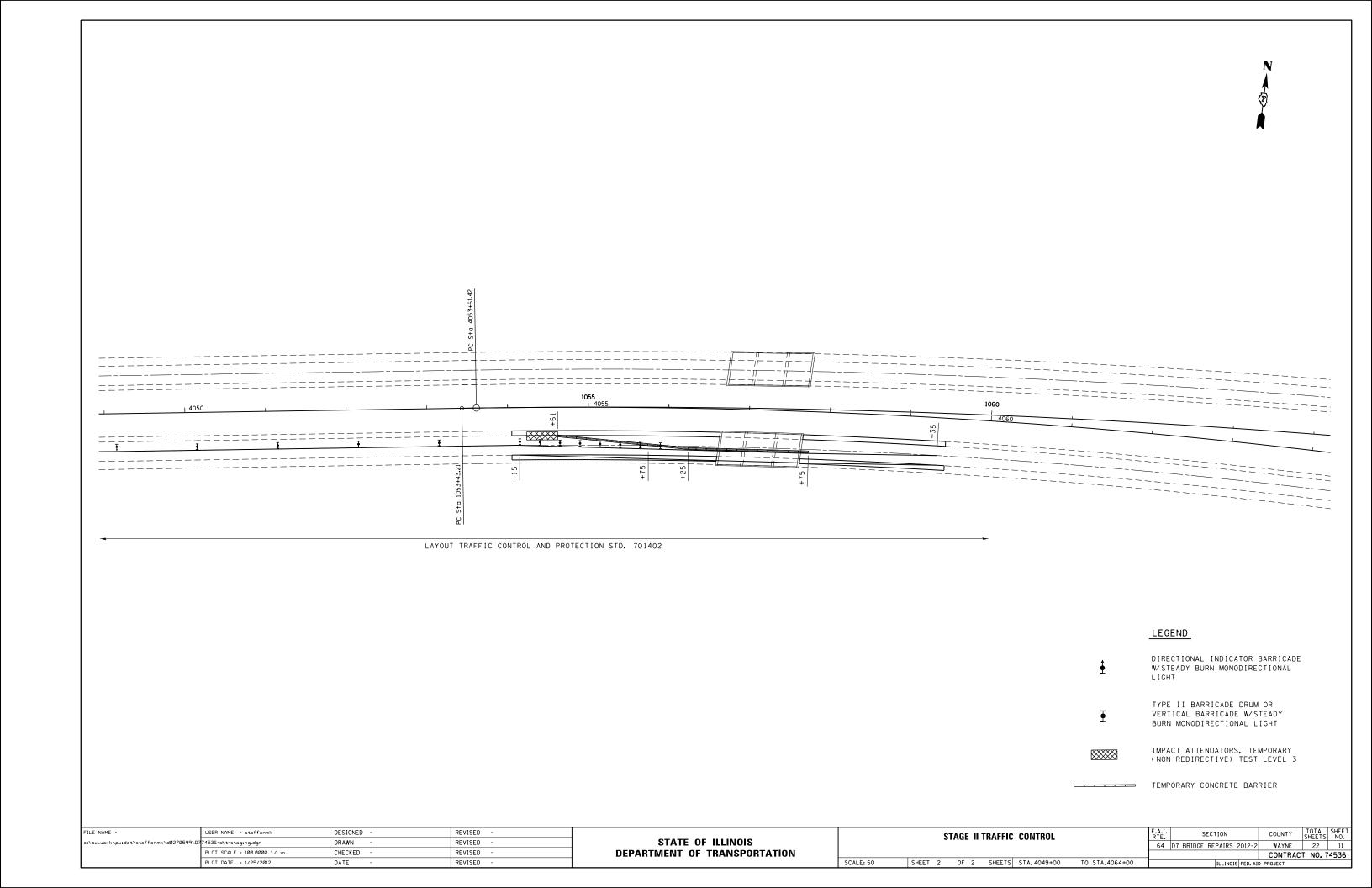
	CCONTIN			
STATION TO STATION	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE), TEST LEVEL 3
STATION TO STATION	FOOT	FOOT	SQ FT	FOOT
	1 001	1 001	30 1 1	1001
STAGE I				
EB 1054+61.00 TO 1056+25.00	162.5	0.0	1.0	0.0
EB 1056+25.00 TO 1057+75.00	150.0	0.0	0.0	0.0
STAGE II				
EB 1054+61.00 TO 1056+25.00	0.0	162.5	0.0	1.0
EB 1056+25.00 TO 1057+75.00	0.0	150.0	0.0	0.0
TOTALS	313.0	313.0	1.0	1.0

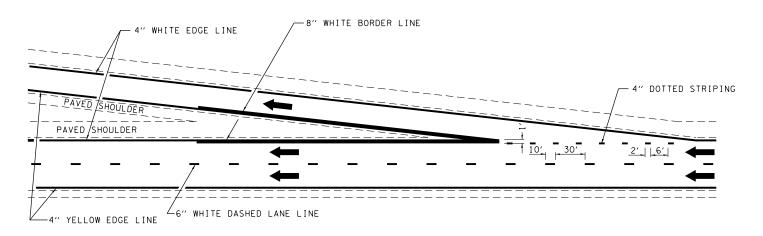




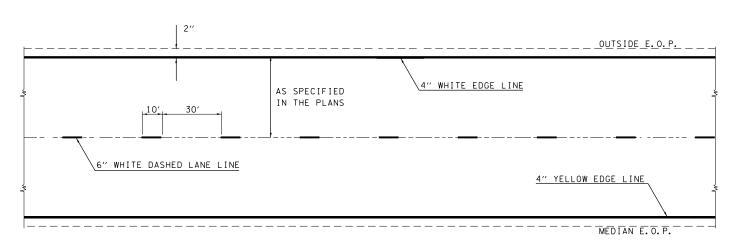




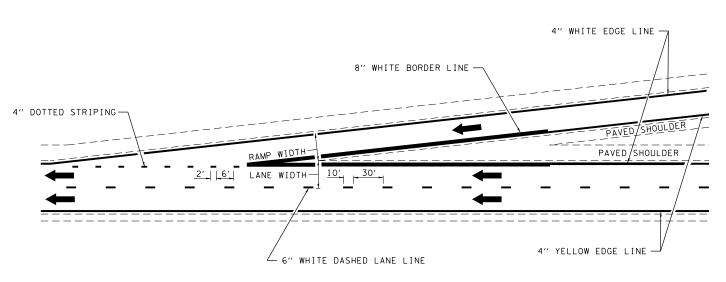




TYPICAL EXIT RAMP MARKING



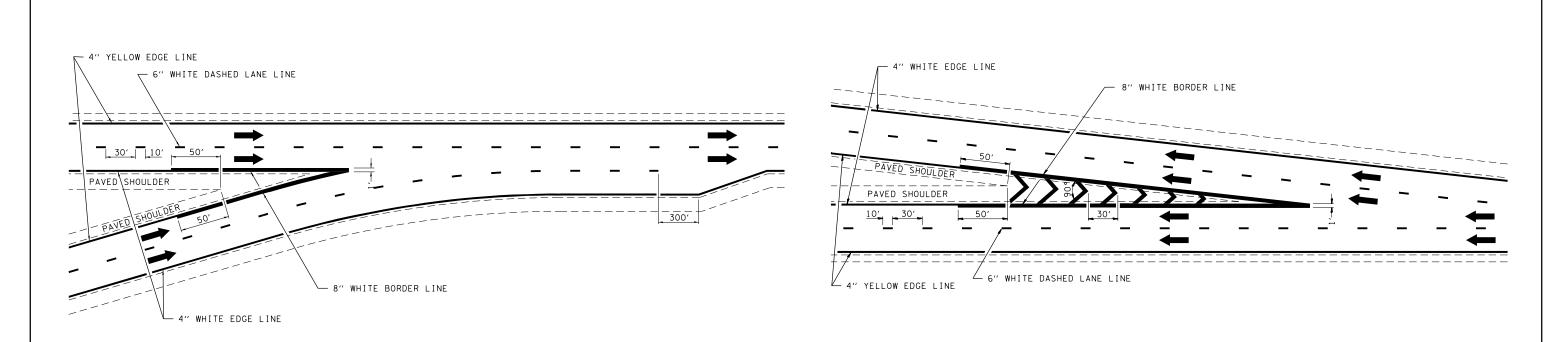
TYPICAL CENTERLINE & EDGELINE MARKINGS



TYPICAL ENTRANCE RAMP MARKING

NOT TO SCALE

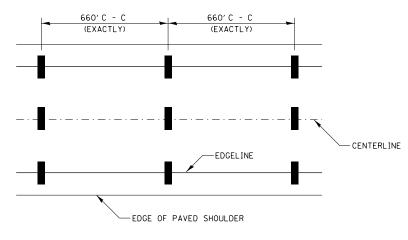
							DISTRI	CT 7 DETAIL	. NO. 78	8000002
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -	DRM 08-04			F.A.i RTF	SECTION	COUNTY	TOTAL SHEET
c:\pw_work\pwidot\steffenmk\d0270599\D	774536-sht-details.dgn	DRAWN -	REVISED -	MKS 04-08	STATE OF ILLINOIS	TYPICAL APPLICATIONS OF INTERSTATE PAVEMENT MARKING	64 D7 BRI	DGE REPAIRS 2012-2	WAYNE	22 12
	PLOT SCALE = 100.0000 ' / 10.	CHECKED -	REVISED -	DRM 01-09	DEPARTMENT OF TRANSPORTATION					CT NO. 74536
	PLOT DATE = 1/25/2012	DATE -	REVISED -	DRM 12-10		SCALE: NA SHEET NO. 1 OF 2 SHEETS STA. TO STA.	FED. ROAD DIST.	NO. ILLINOIS FED. AID		



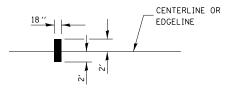
TYPICAL CONVERGENCE MARKING

TYPICAL DIVERGENCE MARKING

### AERIAL SPEED CHECK ZONES



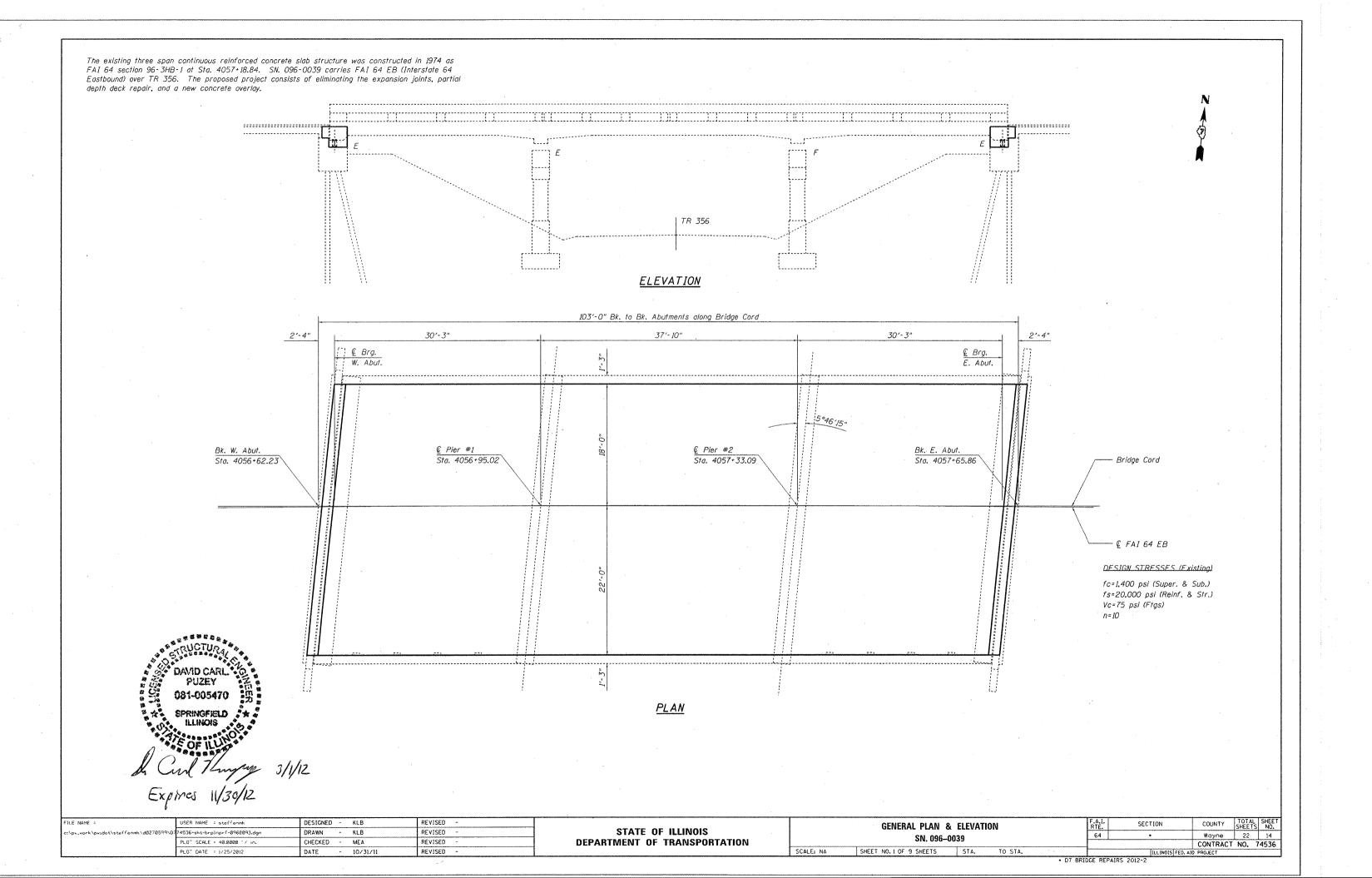
IT WILL BE NECESSARY TO HAVE A REPRESENTATIVE OF THE STATE POLICE PRESENT SO THAT THE ACCURACY OF MEASUREMENT CAN BE ATTESTED TO IN COURT.



NOT TO SCALE

DI	STRICT	7 DE	TAIL	. NO. 78	0000	02
F.A.I RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
64	D7 BRIDGE RE	PAIRS	2012-2	WAYNE	22	13
				CONTRAC	T NO. 7	4536
FED. RO	AD DIST. NO.	ILLINOIS	FED. AID	PROJECT		

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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - MKS 04-08
	PLOT DATE = 1/25/2012	DATE -	REVISED - DRM 01-09



### GENERAL NOTES

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 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 hid.

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

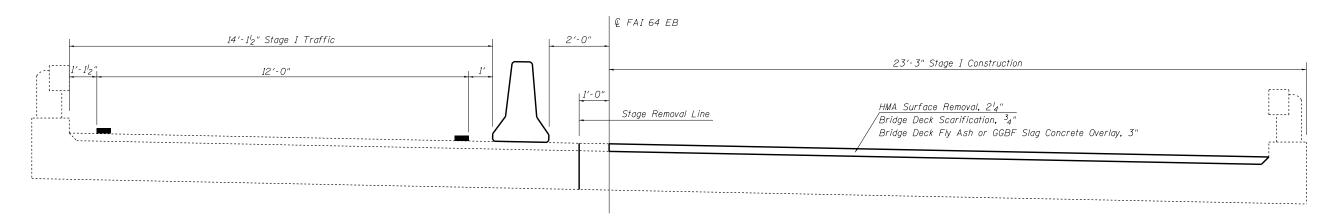
Reinforcement Bars designated (E) shall be epoxy coated.

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 operations shall be replaced using an approved bar splicer or anchorage system. Cost included in CONCRETE REMOVAL.

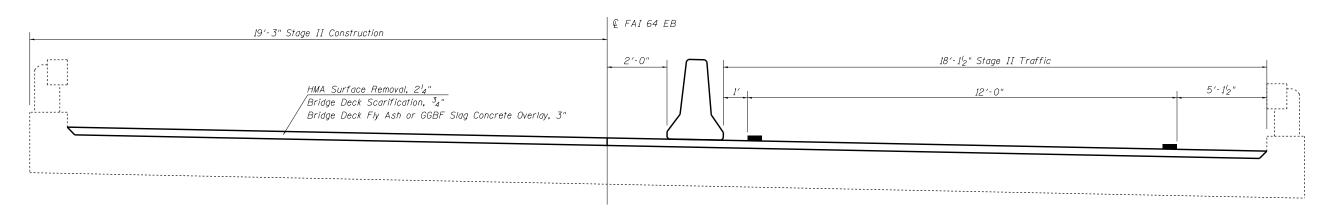
Prior to pouring the new concrete, all heavy and loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete, including the existing rocker bearings. Tightly adhered paint may remain unless otherwise noted. Removal 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.

### TOTAL BILL OF MATERIALS

ITEM	UNIT	QUANTITY
II C M	UNIT	QUANTITI
Concrete Removal	Cu. Yd.	9.0
Concrete Superstructure	Cu. Yd.	17.6
Reinforcement Bars, Epoxy Coated	Pound	880
Bar Splicers	Each	8
Mechanical Splicers	Each	80
Protective Coat	Sq Yd	14
HMA Surface Removal, 2 <sup>1</sup> 4"	Sq Yd	434
Bridge Deck Scarification, $\frac{3}{4}$ "	Sq Yd	434
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 3"	Sq Yd	441
Bridge Deck Grooving	Sq Yd	441



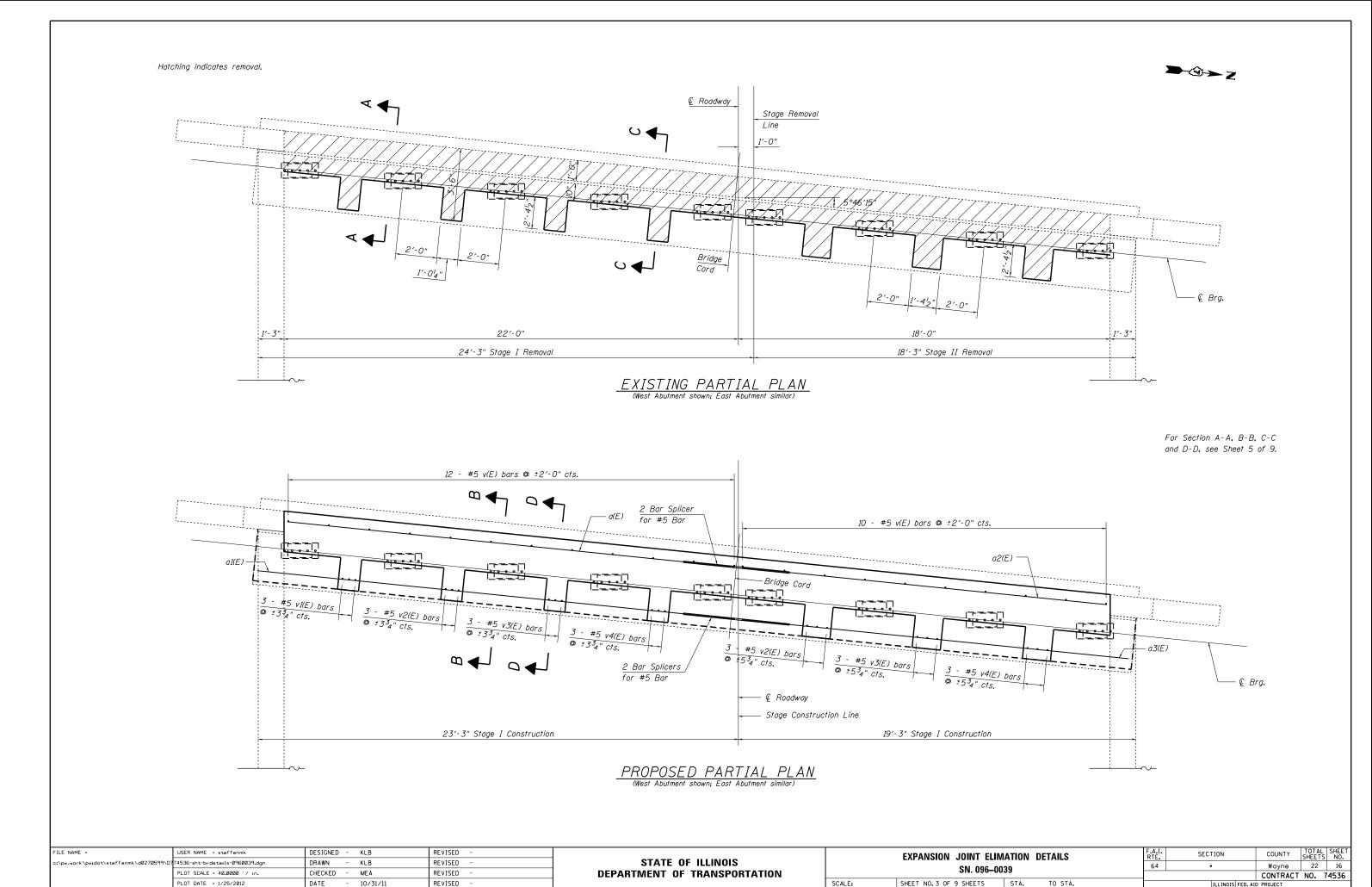
### STAGE I LOOKING EAST

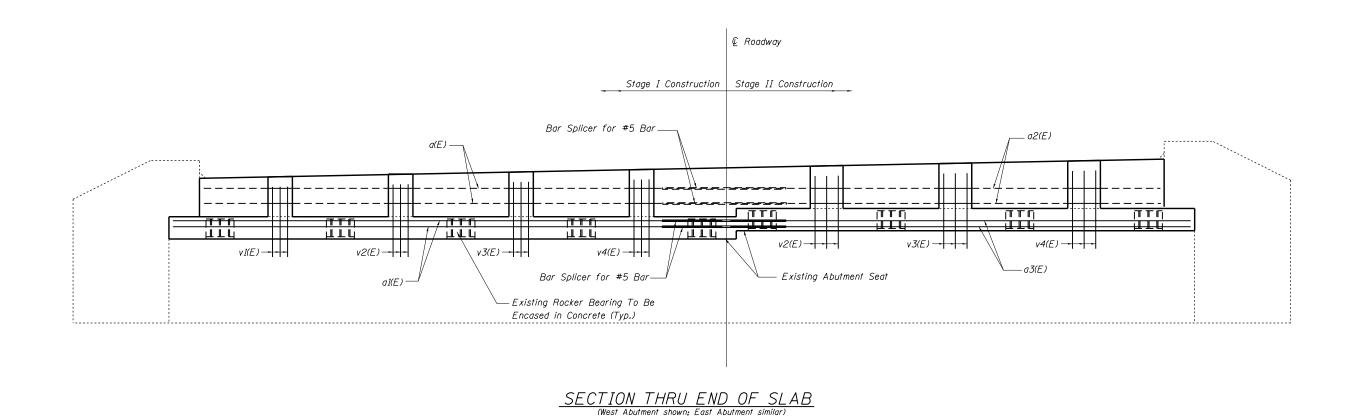


### STAGE II LOOKING EAST

NOTE: NOT TO SCALE

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c:\pw_work\pwidot\steffenmk\d0270599\D7	74536-sht-brgennote-0960039.dgn	DRAWN -	KLB	REVISED -	STATE OF ILLINOIS		SN. 096-0039	WATEHIAE	64	•	Wayne	22 15
	PLOT SCALE = 40.0000 '/ in.	CHECKED -	MEA	REVISED -	DEPARTMENT OF TRANSPORTATION		2M. 030-0033				CONTRACT	T NO. 74536
	PLOT DATE = 1/25/2012	DATE -	10/31/11	REVISED -		SCALE: NA	SHEET NO. 2 OF 9 SHEETS STA.	TO STA.		ILLINOIS FED. AII	D PROJECT	

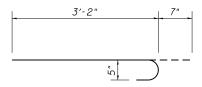




# BILL OF MATERIAL

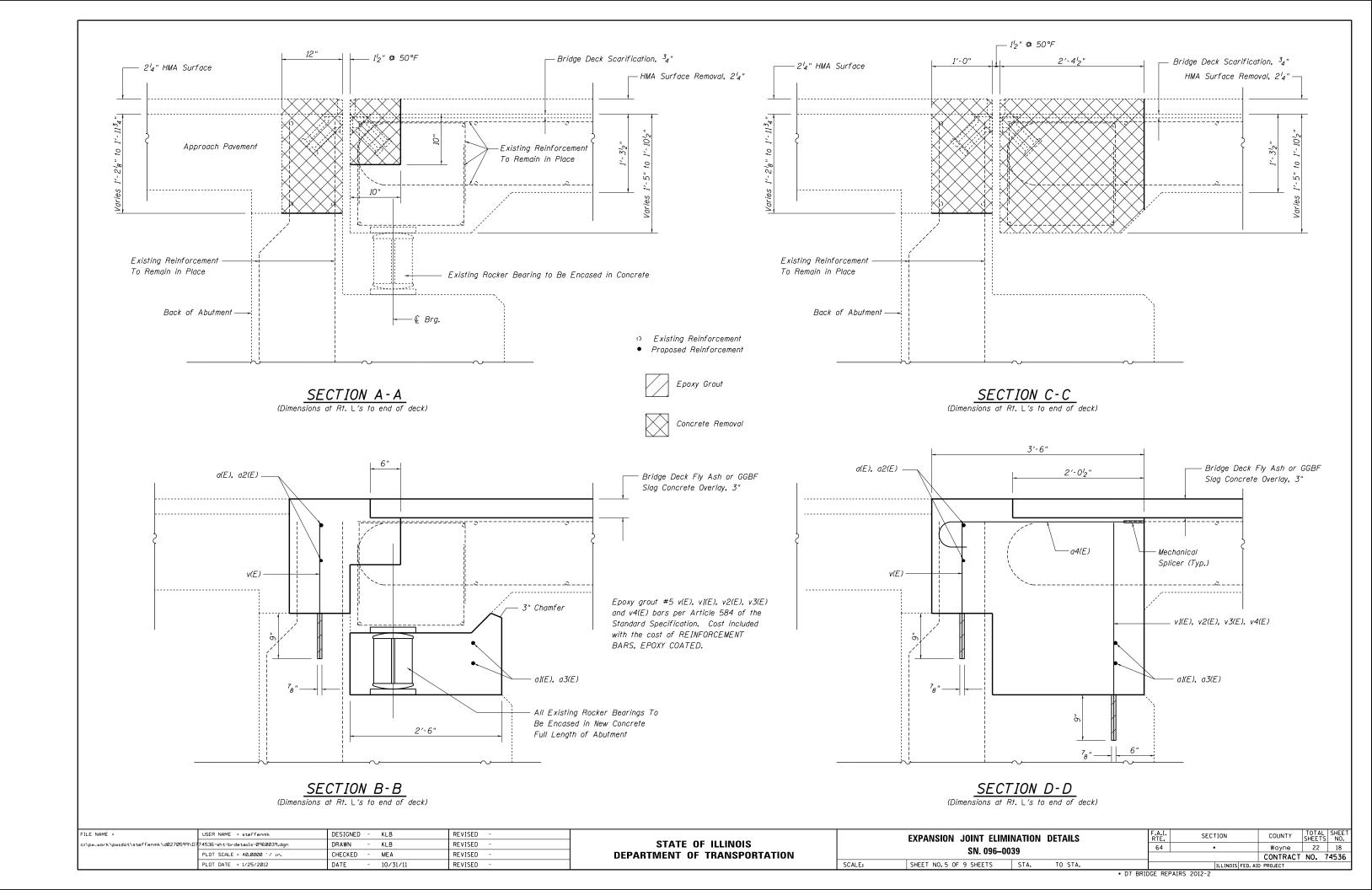
PER ABUTMENT

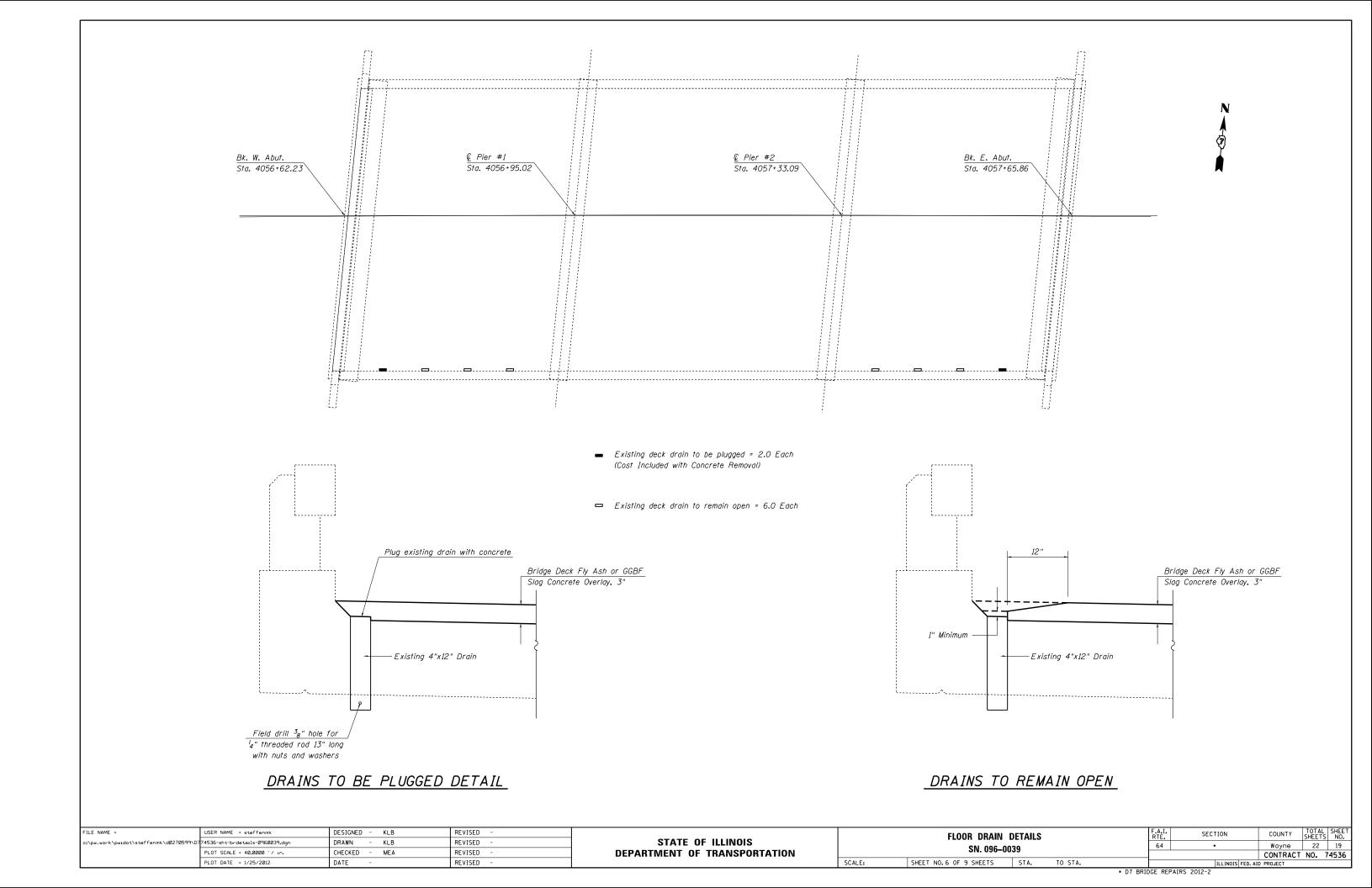
2 2 18	2 2 2 2 2 40	#5 #5 #5 #5	21'-9" 22'-10 <sup>1</sup> 2" 17'-9" 18'-10"										
2 18	2 2	#5 #5 #5	22'-10 <sup>1</sup> <sub>2</sub> " 17'-9" 18'-10"										
2 18	2	#5 #5	17'-9" 18'-10"										
2 18	2	#5	18′-10"										
18													
	40	#5											
10			3′-9"	$\overline{}$									
10	22	#5	1'-9 <sup>1</sup> 2"										
	3	#5	2'-11"										
3	6	#5	3'-0 <sup>1</sup> 2"										
3	6	#5	3'-1 <sup>1</sup> 2"										
3	6	#5	3'-3"										
(EP0XY	COATED)		POUND	440									
CONCRETE REMOVAL													
CONCRETE SUPERSTRUCTURE													
v3(E)         3         3         6         #5           v4(E)         3         3         6         #5           REINFORCEMENT BARS (EPOXY COATED)													



Bar a4(E)

FILE NAME =	USER NAME = steffenmk	DESIGNED - KLB	REVISED -			EXPANSION JOINT ELIMIN	IATION DETAILS	F.A.I.	SECTION	COUNTY TOTAL
c:\pw_work\pwidot\steffenmk\d0270599\D7	74536-sht-brdetails-0960039.dgn	DRAWN - KLB	REVISED -	STATE OF ILLINOIS		SN. 096-003		64	•	Wayne 22
	PLOT SCALE = 40.0000 '/ in.	CHECKED - MEA	REVISED -	DEPARTMENT OF TRANSPORTATION		2M. 080-003	19			CONTRACT NO.
	PLOT DATE = 1/25/2012	DATE - 10/31/11	REVISED -		SCALE:	SHEET NO. 4 OF 9 SHEETS	STA. TO STA.		ILLINOIS F	ED. AID PROJECT
•								<ul> <li>D7 BRIDGE REF</li> </ul>	PAIRS 2012-2	



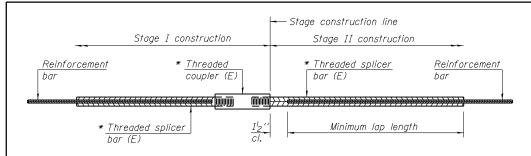


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© PIER 2 STA 4057+33.09



### 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

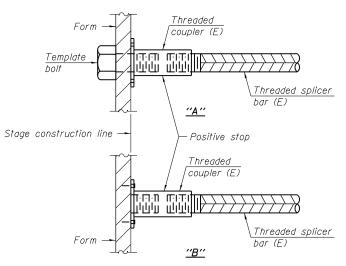
Table 4: Epoxy bar, Top bar lap, 0.8 Class C

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

Threaded splicer bar length = min. lap length +  $1_2^{\prime\prime}$  + thread length

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

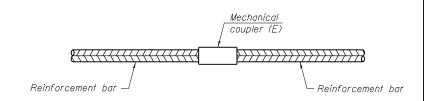
Location	Bar size	No. assemblies required	Table for minimum lap length
096 - 0039	#5	8	Table 3



### INSTALLATION AND SETTING METHODS

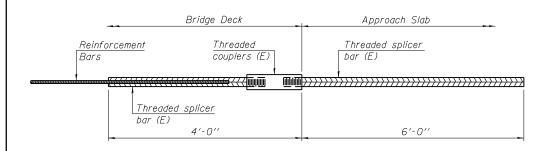
"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



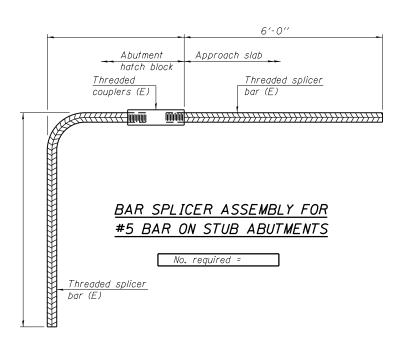
### STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required			
096-0039	#5	80			



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

No. required =



# <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.

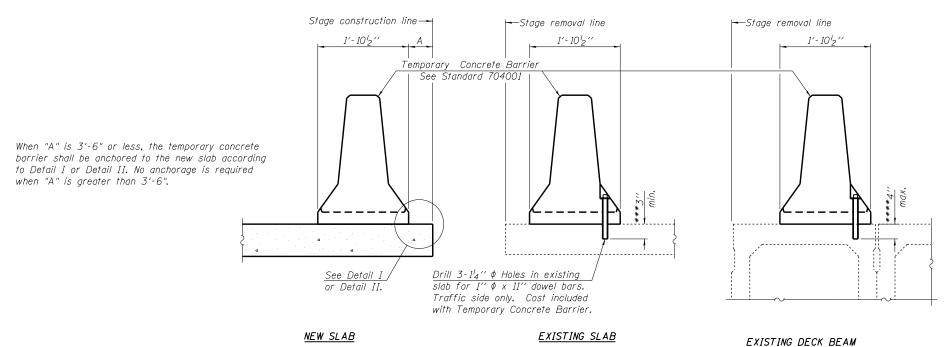
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

7-1-10

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FILE NAME =	USER NAME = steffenmk	DESIGNED - KLB	REVISED -		BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS	F.A.I.	SECTION	COUNTY SHEET
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• D7 BRIDGE REPAIRS 2012-2



### NOTES

Detail I - With Bar Splicer or Couplers:

Connect one (1)  $I'' \times 7' \times 'W''$  steel  $f_{-}^{p}$  to the top layer of couplers with  $2^{-5}g'' \not = b$  bolts screwed to coupler at approximate  $f_{-}^{p}$  of each barrier panel.

Detail II - With Extended Reinforcement Bars:

Connect one (1) I'' x 7'' x ''W'' steel P to the concrete slab or concrete wearing surface with 2-58'' \$\phi\$

Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate \$\mathbb{C}\$ of each barrier panel.

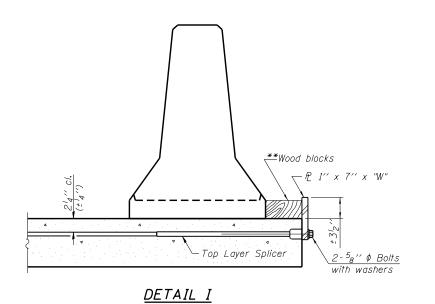
Cost of anchorage is included with Temporary Concrete Barrier.

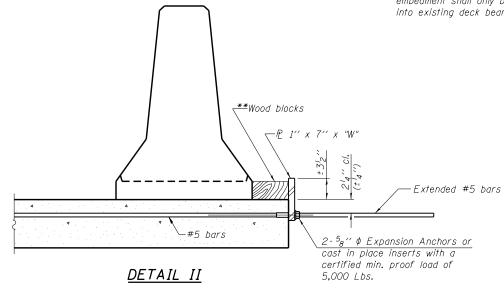
The I'' x 7'' x ''W'' plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

### SECTIONS THRU SLAB OR DECK BEAM

- \*\*\* Dimension shown is minimum required embedment into concrete.

  If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.
- \*\*\*\* If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.





STEEL RETAINER & 1" x 7" x "W"

\* Reauired only with Detail II

\*\* Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

"W" = Top bars spacing + 4"

#### R-27

7-1-10

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