FOR INDEX OF SHEETS, SEE SHEET NO. 2

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STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

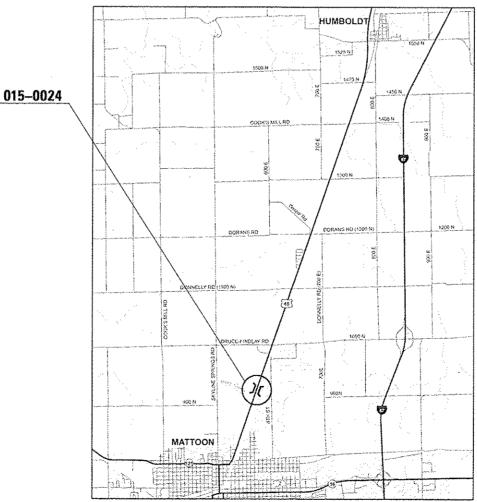
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAP ROUTE 824 (U.S. 45) SECTION D7 BRIDGE REPAIRS 2016-3

BRIDGE DECK REPAIR COLES COUNTY

C-97-076-14



GROSS LENGTH = 0.00 FT. = 0.00 MILE

NET LENGTH = 0.00 FT. = 0.00 MILE

CONTRACT NO. 74673

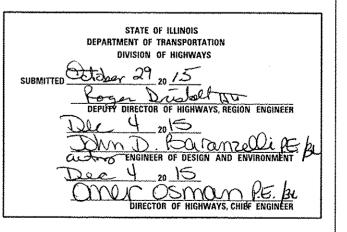
RTE. SECTION COUNTY TOTAL SHEET SIGN.

824 • COLES 15 1

ILLINOIS CONTRACT NO. 74673

*D7 BRIDGE REPAIRS 2016-3





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

0 100' 200' 300' — 1" = 100'
0 50' 100' 1" = 50'
0 50' 100' 1" = 40'
0 50' 100' 1" = 40'
0 50' 100' 1" = 40'

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.J.E.

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

PROJECT ENGINEER: TOM RONAN PROJECT MANAGER: JEFF DAVISON

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INDEX OF SHEETS

SHEET NO.	ITEM
1 2	COVER SHEET INDEX OF SHEETS AND GENERAL NOTES
3 4~5	SUMMARY OF QUANTITIES MARKED ROUTE DETOUR SHEETS
6-15	STRUCTURE REPAIR SHEETS

THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED AFTER SHEET NO. 15:

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
701001-02	OFF-ROAD OPERATIONS, 2L2W, 15' MINIMUM AWAY FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701006-05	OFF-ROAD OPERATIONS, 2L2W, 15' AWAY TO EDGE OF PAVEMENT
701201-04	LANE CLOSURE, 2L2W, DAY ONLY
701311-03	LANE CLOSURE, 2L. 2W, DAY ONLY
701901-04	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
BLR 21-9	TYPICAL APPLICATION OF TREFFIC CONTROL DEVICES FOR
	CONSTRUCTION ON RURAL LOCAL HIGHWAYS

CENERAL 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 AT STRUCTURE NUMBER 015-0024. STRUCTURE NUMBER 015-0024 IS LOCATED 1 MILE NORTH OF MATTOON AND CARRIES US ROUTE 45 OVER RILEY CREEK IN COLES COUNTY. THE WORK INCLUDED IN SECTION D7 BRIDGE REPAIRS 2016-3 CONSISTS OF TRAFFIC CONTROL. EXPANSION JOINT REPLACEMENT, A NEW CONCRETE WEARING SURFACE. PAVEMENT MARKING, AND ANY OTHER WORK NECESSARY TO COMPLETE THE SECTION.

PLAN DIMENSIONS AND DETAILS RELATIVE TO THE EXISTING STRUCTURE 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.

THE CONTRACTOR MAY NEED TO DETACH OR REMOVE BRIDGE RAIL AND/OR GUARDRAIL TERMINAL SECTIONS TO COMPLETE CONCRETE REMOVAL AND TO CONSTRUCT THE NEW EXPANSION JOINTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DETACHING, REMOVING, AND REATTACHING ANY BRIDGE RAIL AND/OR GUARDRAIL TO THE STRUCTURES. THIS WORK WILL BE CONSIDERED INCLUDED IN THE PAY ITEMS INVOLVED. THE CONTRACTOR MAY NEED TO REMOVE AND REINSTALL EXISTING NAME PLATES TO COMPLETE CONCRETE REMOVAL AND TO CONSTRUCT THE NEW EXPANSION JOINTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR REMOVING AND REINSTALLING ANY NAME PLATES. THIS WORK WILL BE CONSIDERED INCLUDED IN THE PAY ITEMS INVOLVED.

PAVEMENT MARKING SHALL BE APPLIED IN ACCORDANCE WITH SECTION 180 OF THE STANDARD SPECIFICATIONS.

THE TOTAL QUANTITY OF PAINT PAVEMENT MARKING-LINE 4" CONSISTS OF267 FEET OF WHITE AND 33 FEET OF YELLOW.

IN ADDITION TO THE REQUIREMENTS FOR PORTABLE CHANGEABLE MESSAGE SIGNS IN ARTICLE 701.15(1), A LAPTOP COMPUTER TO CONTROL THE MESSAGE SIGNS SHALL ALSO BE SUPPLIED BY THE CONTRACTOR.

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DEPARTMENT	0F	TRANSPORTATION

SCALE: NA

		D7 BRIDGE REPAIRS	2016-3		
INDEX, LIST OF STANDARDS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
AND GENERAL NOTES	824	•	COLES	15	2
			CONTRAC	T NO.	74673
SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FEO. A	D PROJECT		

CUMMANDY OF QUANTITIES				TRUCTION TYPE CODE		CHANADY OF CHANTITIES			CONSTRUCTION TYPE CODE			
	SUMMARY OF QUANTITIES		TOTAL	SN 015-0024 100% STATE	harmon particular and the second seco		SUMMARY OF QUANTITIES		TOTAL	SN 015-0024 100% STATE		
CODE NO	M3TI	UN(T	QUANTITIES	0014	***************************************	CODE NO	Mati	UNIT	QUANTITIES	0014		
44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SO YD	195	195		X0327271	TRAFFIC CONTROL FOR ROAD CLOSURE	EACH	1	L		
					to are the contract of the con							
50102400	CONCRETE REMOVAL	CU YD	16.2	16.2		X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	28	28		
50300100	FLOOR DRAINS	EACH	8	8		Z0012114	BRIDGE DECK FLY ASH OR GGBF SLAG CONCRETE	SQ YD	173	173		
							OVERLAY, 3 1/4"					
50300255	CONCRETE SUPERSTRUCTURE	CU YD	21.4	21.4								Market Ma
	·					Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	168	168		
50300260	BRIDGE DECK GROOVING	SQ YD	162	162							V	
						-Z0015802	PLUG EXISTING DECK DRAINS	EACH	4	4	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
50300300	PROTECTIVE COAT	SO YD	28	28						-		
						Z0016001	DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SO YD	3	3		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1320	1320		***************************************				-		
						Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SO YD	8	8		- Control of the Cont
50800530	MECHANICAL SPLICERS	EACH.	94	94								
					es prominent projection of the control of the contr	Z0016702	DETOUR SIGNING	LSUM	1	4		
67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	3	3		9						
67100100	MOBILIZATION	L SUM	1			100 mm						

70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	1	operation and the second							
	701201											
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	300	300								
		-			***************************************							
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	300	300								

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* SPECIALTY ITEMS

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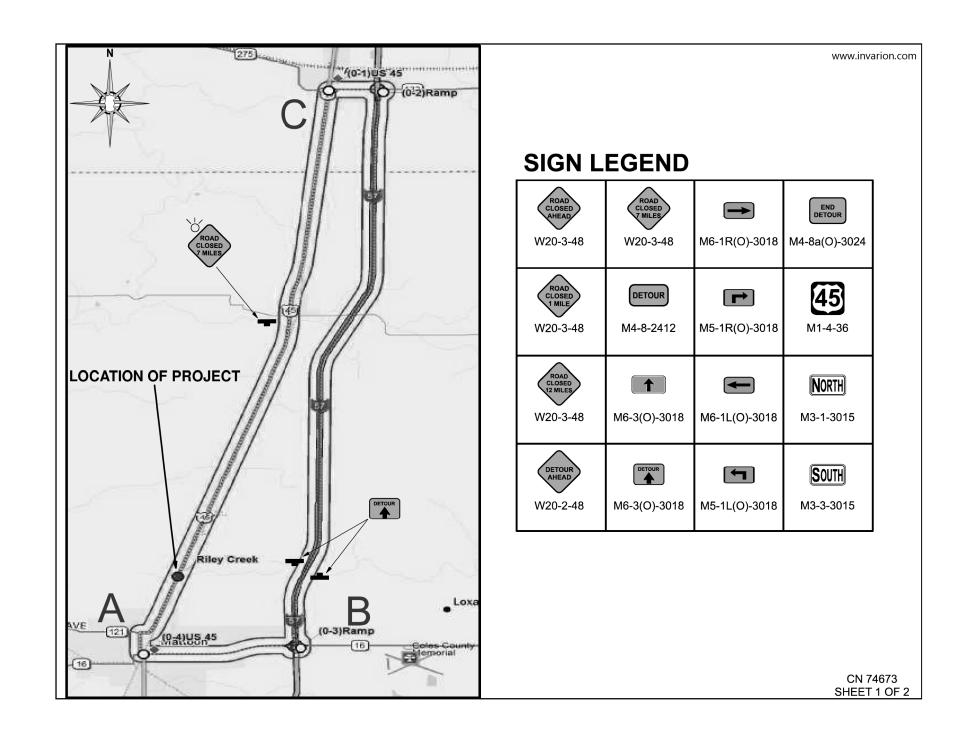
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DEPARTMENT OF TRANSPORTATION

		**	SUMMARY OF	=
			QUANTITIES	
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TO STA.

+D7 BRIDGE REPAIRS 2016-3

| F.A.P. | SECTION | COUNTY | SHEETS | NO. |
| 624 | - | COLES | 15 | 3 |
| CONTRACT NO. 74673



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*D7 BRIDGE REPAIRS 2016-3

COUNTY TOTAL SHEET NO.

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CONTRACT NO. 74673 SECTION

824

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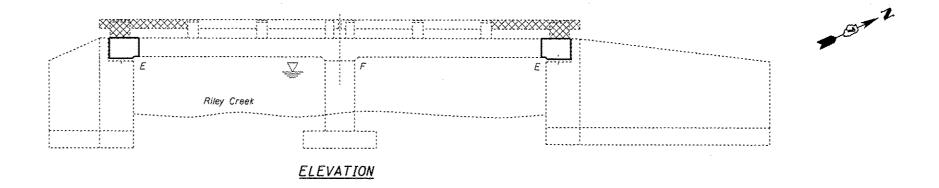
MARKED ROUTE

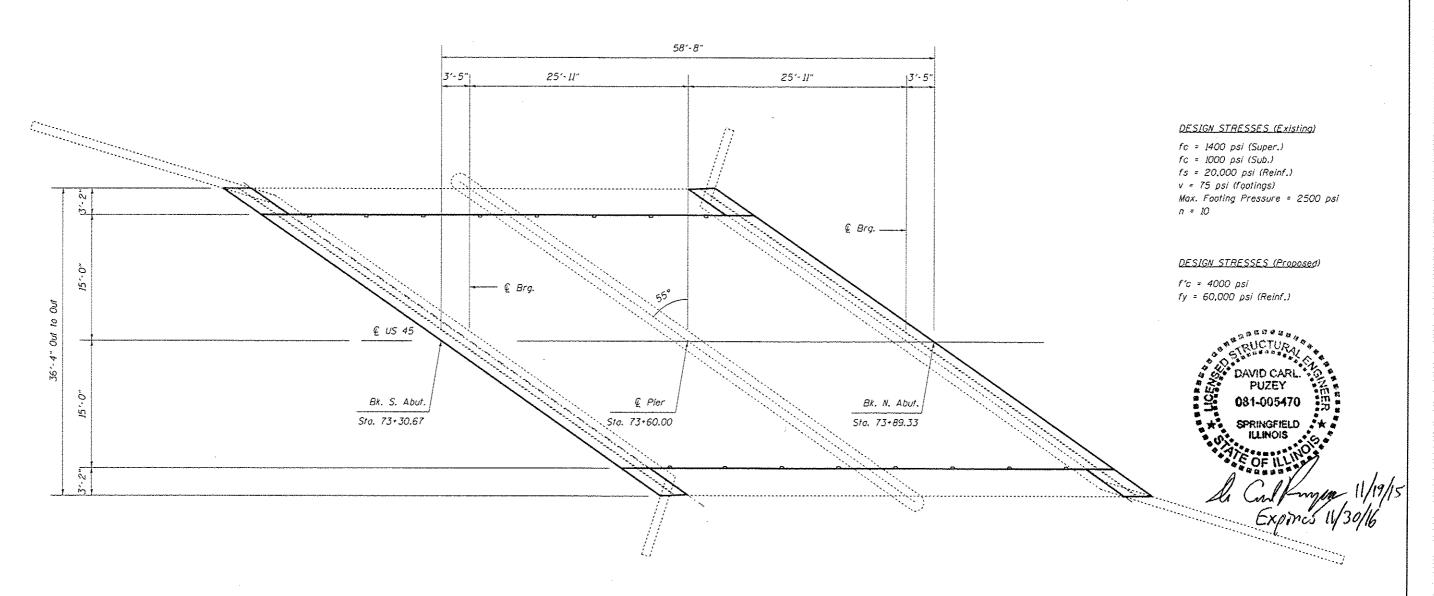
DETOUR

SHEET 2 OF 2 SHEETS STA.

SCALE: NA

The existing two span continuous reinforced concrete slab structure was constructed in 1959 as section 198R at Sta. 73+60. SN. 015-0024 carries FAP 824 (US 45) over Riley Creek. The proposed project consists of bridge deck patching, new concrete wearing surface and expansion joint elimination. The roadway will be closed to traffic during construction.





PLAN

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efault	PLOT DATE = 18/38/2815	DATE ~	REVISED -		SCALE: NA SHEET I OF 10 SHEETS STA. TO STA.	ILLINOISIFED, AID PROJECT

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 bid for the work.

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.

Areas of deck repairs shown are estimated. The engineer shall show actual locations of deck repairs on as-built plans.

Removal and re-erection of the steel rail may be necessary for construction of the expansion joints. The existing rail posts shall be reused. All Existing anchors that are within the concrete removal area shall be replaced with new anchors that are cast-in-place or drilled and set according to Article 509.06 of the Standard Specifications. This work and all materials shall be included Concrete Removal.

The Name Plate is currently attached to a section of the concrete railing that will be removed. The Name Plate shall be relocated to a section of the railing that will remain in place. This work and all materials shall be included in the price of Concrete Removal.

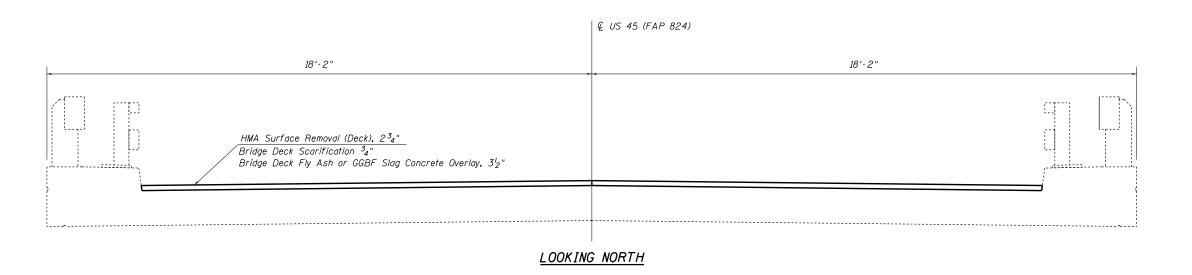
It is anticipated that a full depth deck slab repair will be necessary at every location of floor drains to be replaced. Removal and disposal of the existing floor drains shall be included in the contract unit price for Deck Slab Repair (Full Depth, Type II).

Synthetic Fibers shall be added to the Bridge Deck Fly Ash or GGBF Slag Concrete Overlay. See special provisions.

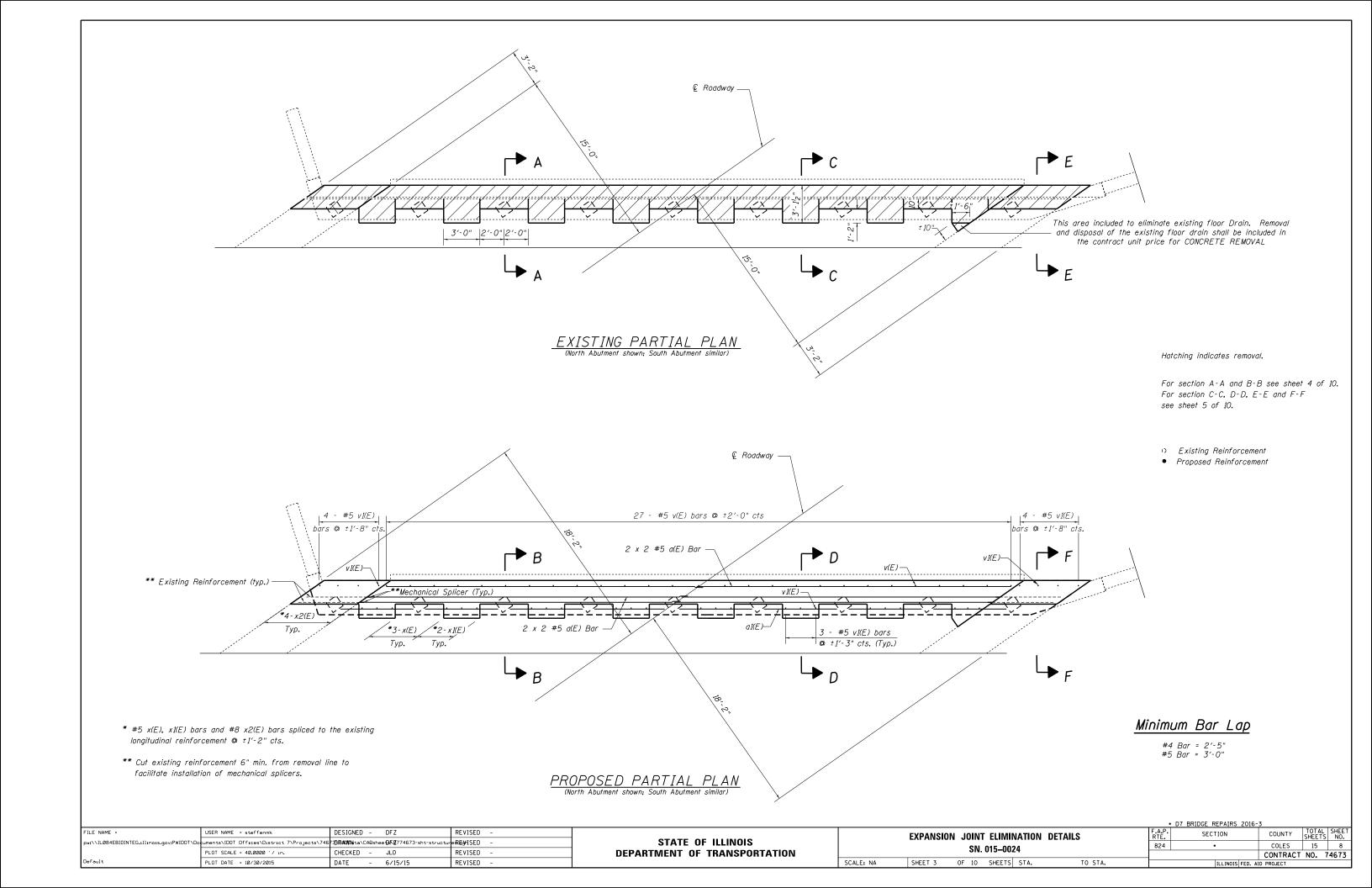
Protective Coat shall not be applied to the Bridge Deck Fly Ash or GGBF Slag Concrete Overlay.

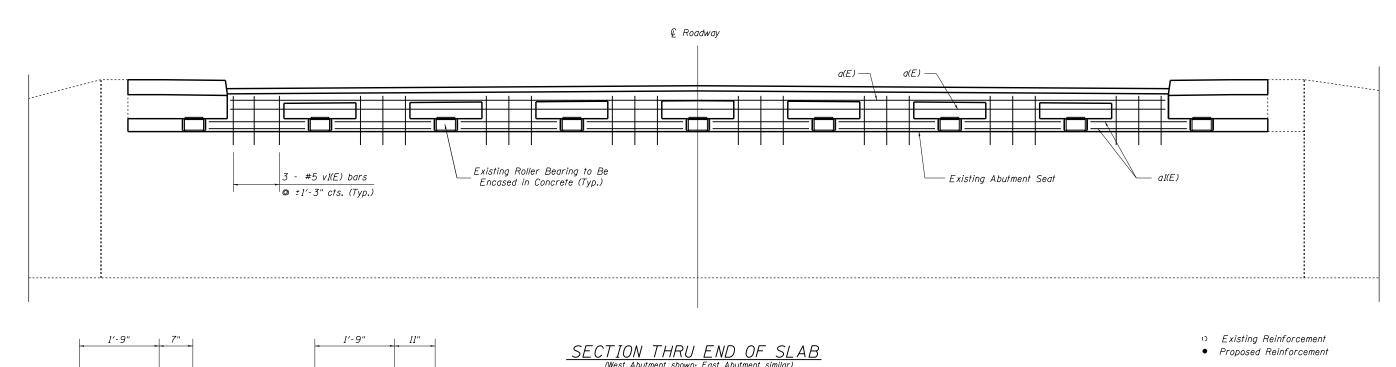
TOTAL BILL OF MATERIALS

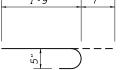
ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	16.2
Concrete Superstructure	Cu. Yd.	21.4
Reinforcement Bars, Epoxy Coated	Pound	1320
Floor Drains	Each	8
Protective Coat	Sq Yd	28
HMA Surface Removal, 2 ³ 4"	Sq Yd	195
Bridge Deck Scarification, 3 ₄ "	Sq Yd	168
Bridge Deck Fly Ash or GGBF Slag Concrete Overlay, 3^l_4 "	Sq Yd	173
Bridge Deck Grooving	Sq Yd	162
Mechanical Splicers	Each	94
Deck Slab Repair (Full Depth, Type I)	Sq Yd	3
Deck Slab Repair (Full Depth, Type II)	Sq Yd	8

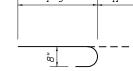


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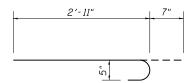








Bar x2(E)

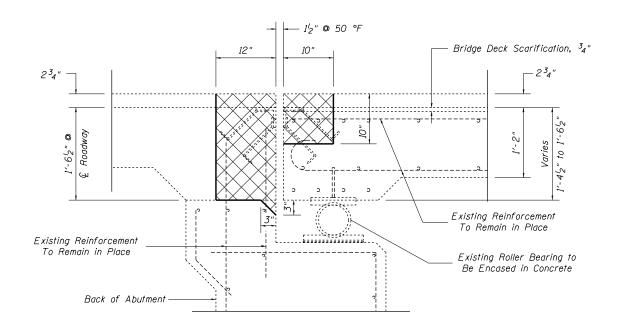


Bar x1(E)

BILL OF MATERIAL

PER ABUTMENT

BAR	NUMBER OF BARS	TOTAL	SIZE	LENGTH	SHAPE
a(E)	8	8	#5	28'-9"	
a1(E)	16	16	#5	6′-0"	
v(E)	27	27	#5	2'-2"	
v1(E)	32	32	#5	2'-9"	
x(E)	21	21	#5	2'-4"	
x1(E)	14	14	#5	3′-6"	
x2(E)	8	8	#8	2′-8"	$\overline{}$
REINFOR	CEMENT BARS (EPOXY	POUND	660		
CONCRET	E REMOVAL	CU YD	8.1		
CONCRET	E SUPERSTRUCTURE	CU YD	10.7		

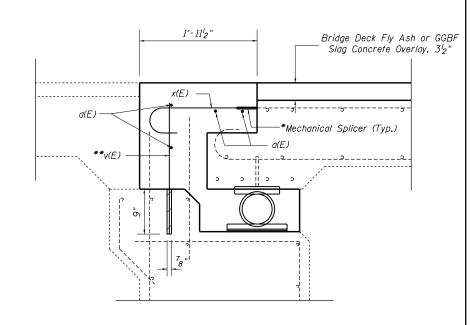


SECTION A-A (Dimensions at Rt. L's to end of deck)

Minimum Bar Lap

#4 Bar = 2'-5" #5 Bar = 3'-0" * Cut existing reinforcement 6" min. from removal line to facilitate installation of mechanical splicers.

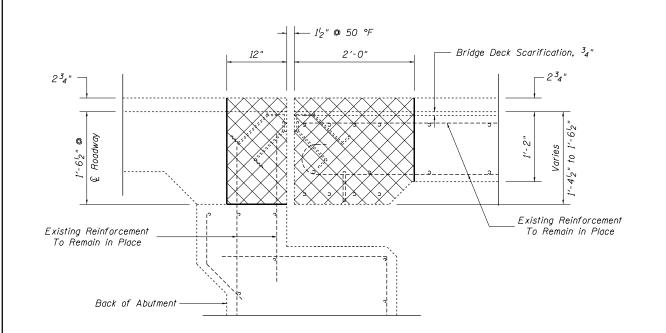
** Epoxy grout #5 v(E) and v1(E) bars per Article 584 of the Standard Specifications. Cost included with the cost of REINFORCEMENT BARS, EPOXY COATED.



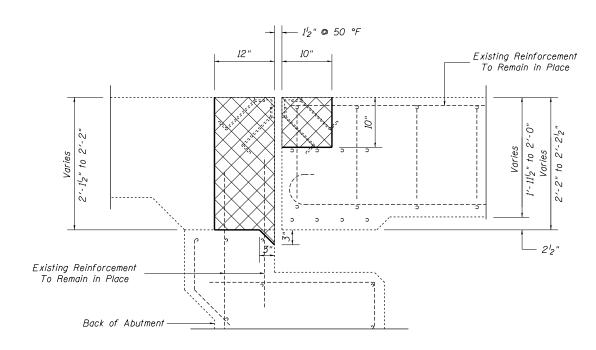
SECTION B-B
(Dimensions at Rt. L's to end of deck)

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			EXPANSIO	N JOINT	ELIMII	ΙΔΤΙΩΝ	I DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	
	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SN. 015-0024				824	•	COLES	15	9			
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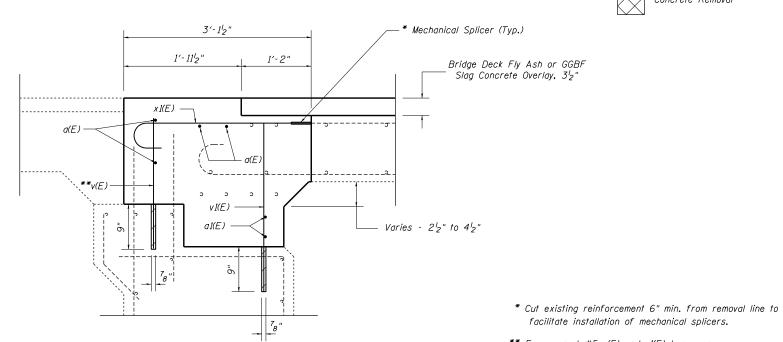


SECTION E-E (Dimensions at Rt. L's to end of deck)

- O Existing Reinforcement
- Proposed Reinforcement

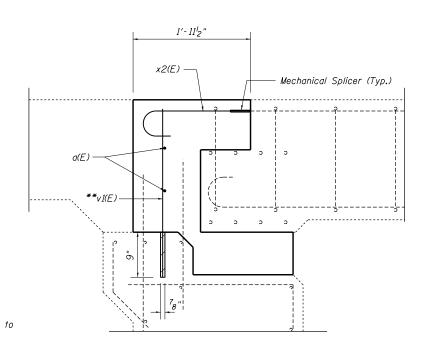
Epoxy Grout

Concrete Removal



SECTION D-D
(Dimensions at Rt. L's to end of deck)

** Epoxy grout #5 v(E) and v1(E) bars per Article 584 of the Standard Specifications. Cost included with the cost of REINFORCEMENT BARS, EPOXY COATED.



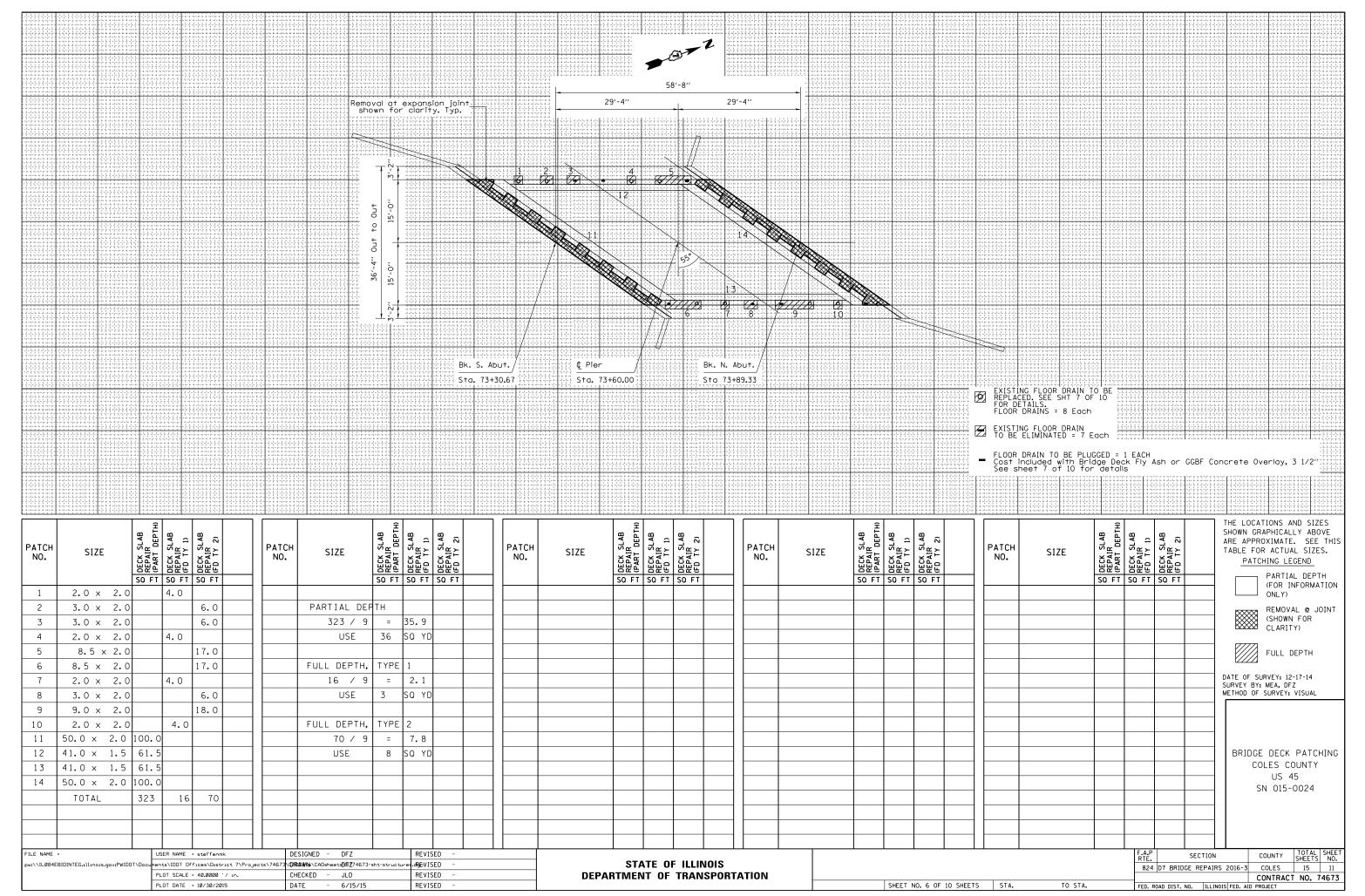
SECTION F-F
(Dimensions at Rt. L's to end of deck)

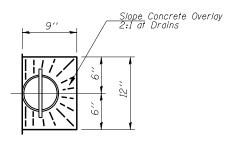
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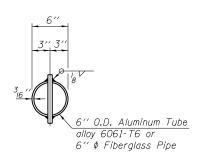
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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SHEET 5 OF 10 SHEETS STA. TO				TO STA.		ILLINOIS FED.	AID PROJECT			

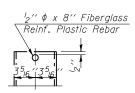




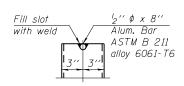
TOP PLAN



TOP PLAN (Showing Aluminum Tube)

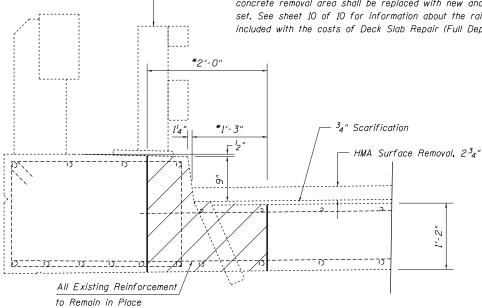


FIBERGLASS PIPE

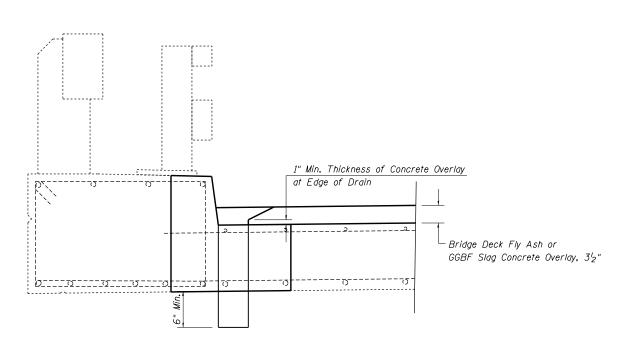


<u>ALUMINUM</u> <u>TUBE</u>

Removal and replacement of rail posts may be necessary depending on location of concrete removal area. The existing rail posts shall be reused. The existing anchors that are within the concrete removal area shall be replaced with new anchors that are cast-in-place or drilled and set. See sheet 10 of 10 for information about the railing. This work and all materials shall be included with the costs of Deck Slab Repair (Full Depth, Type II).



SECTION THRU EXISTING
FLOOR DRAINS



SECTION THRU PROPOSED
FLOOR DRAINS

Note: See "Total Bill of Materials" for structure quantities.

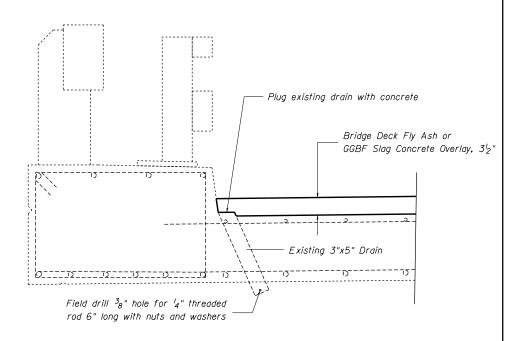
The exterior surfaces of the floor drains shall be painted with the finish coat as specified in the special provisions for Cleaning and Painting New Metal Structures. The exterior surfaces of the drains shall be cleaned according to Society of Protective Coating's Spec. SSPC-SPI prior to painting.

Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum. Galvanize clamping device according to AASHTO M 232. Cost of clamping device and galvanizing included with Floor Drains.

Hatching indicates removal. Cost included with Deck Slap Repair (Full Depth, Type II).

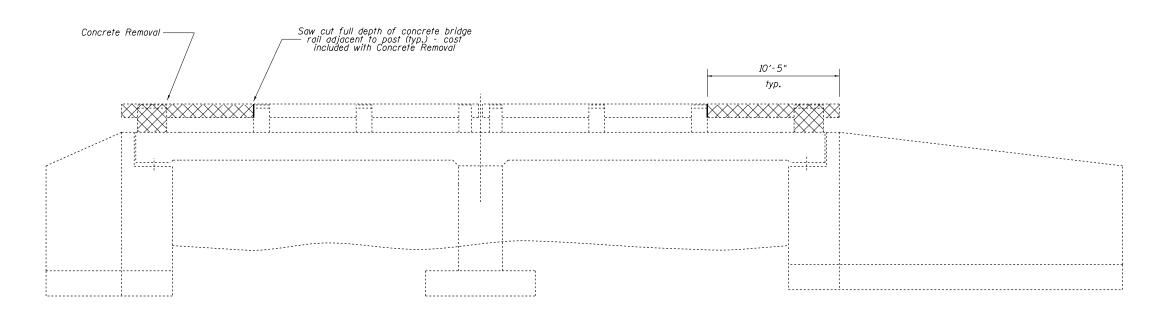
* Concrete removal and replacement dimensions shall be determined by the Engineer based on the extent of deck deterioration at each drain.

For locations of drain replacements and deck drains to be plugged, see Sheets 6 of 10.

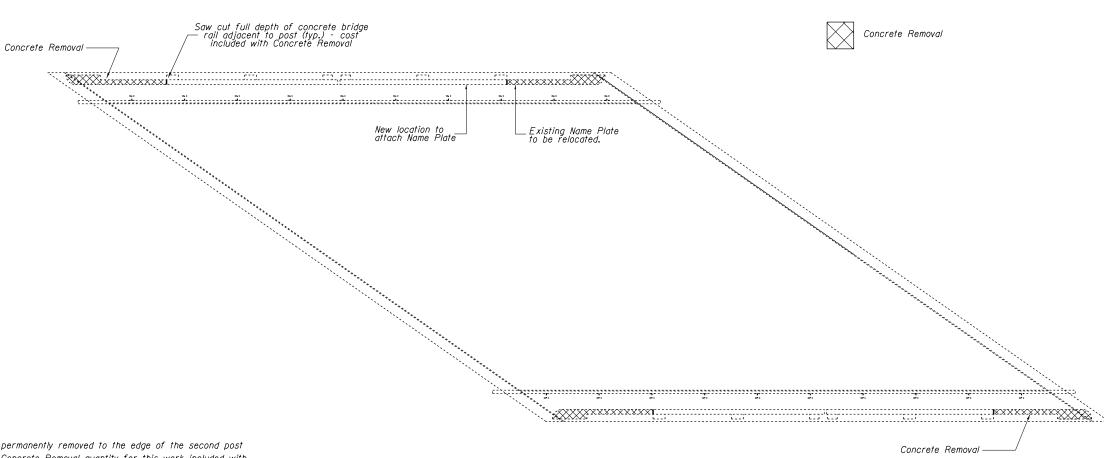


SECTION THRU PLUGGED FLOOR DRAINS

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ELEVATION

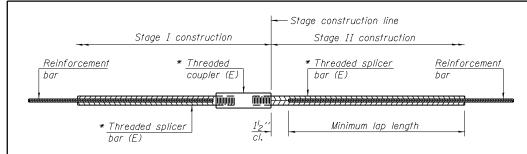


Note: Existing concrete bridge rail to be saw cut and permanently removed to the edge of the second post from the end at each corner of the structure. Concrete Removal quantity for this work included with Concrete Removal for each abutment.

Removal and replacement of portions of steel bridge rail may be necessary. The existing rail posts shall be reused. See sheet 10 of 10 for information about the railing. This work shall be included with the costs of Concrete Removal.

PLAN

								• D7 BRIDGE REPAIRS 2016	-3	
FILE NAME =	USER NAME = steffenmk	DESIGNED -	DFZ	REVISED -		PERMANENT REMOVAL OF OLD CONCRETE BRIDGE RAIL	F.A.P.	SECTION	COUNTY	TOTAL SHEET
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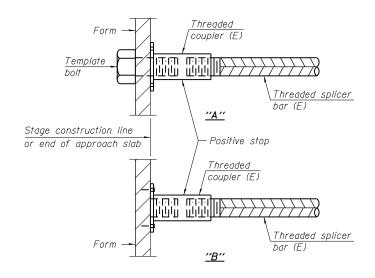


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1^{l_2} " + thread length

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

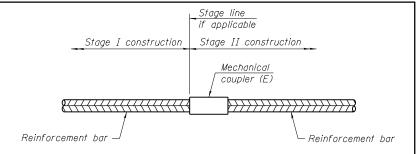
Location	Bar size	No. assemblies required	Minimum lap length



INSTALLATION AND SETTING METHODS

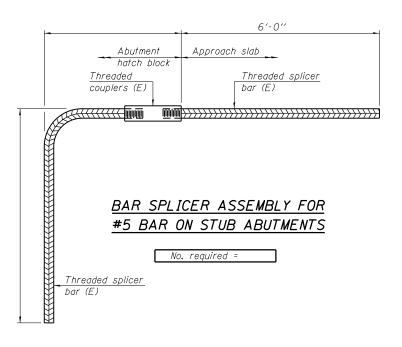
"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Abutments	#5	78
Abutments	#8	16



<u>NOTES</u>

Splicer bars shall be deformed $\overline{\text{with thre}}$ 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 approved list of bar splicer assemblies and mechanical splicers for alternatives.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS STRUCTURE NO.								
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F.A.P RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
824	•		COLES	15	14
		CONTRACT	NO. 7	4673	
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•D7 BRIDGE REPAIRS 2016-3

