PHONE NO: (309) 671-4463

07-31-2015 LETTING ITEM 080

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FULTON COUNTY

FAP 317 (US24) SECTION [(102)B-1]DR **FULL-DEPTH DECK PATCH**

C-94-091-15

HIGHWAY STANDARDS:

INDEX OF SHEETS:

2. GENERAL NOTES & COMMITMENTS

3. SUMMARY OF QUANTITIES

5. SCHEDULE OF QUANTITIES

6-7. PROPOSED TRAFFIC CONTROL

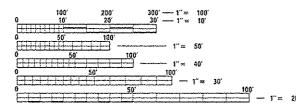
4. EXISTING PLANVIEW

8 - 10. DETAIL SHEETS*

* INCLUDES SHEET IOA

1. COVER SHEET

701001-02 701006-05 701501-06 701901-04 780001-05 BLR22-7



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.

CONTRACT NO. 68C69 CAT. NO. 035305-00D

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

PROJECT ENGINEER: MARK ECKHOFF PROJECT MANAGER: TOM LACY

R 4E DUNFERMLINE SN. 029-0059

NET LENGTH = 102.35 FT. = 0.02 MILE

GROSS LENGTH = 102.35 FT. = 0.02 MILE

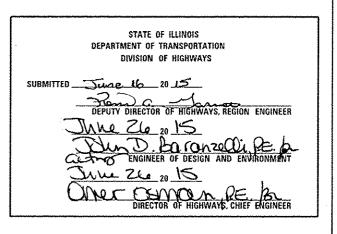
FULTON 10 ((102)B-110R FULL-DEPTH DECK PATCHING THE INDIST CONTRACT NO. 58C69

* 10+1 " | TOTAL SHEETS

D-94-051-15



THIS PROJECT CONSISTS OF 10' WIDE FULL DEPTH DECK PATCH, WINGWALL REPAIR AND FLOOR DRAIN PATCHING ON STRUCTURE (SN.029-0059) CARRYING US24 OVER BUCKHEART CREEK 1.3 MILES EAST OF US24/L78 JUNCTION



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

COMMITMENTS

Commitments are not to be altered without the written approval of all parties to which the commitment was made.

GENERAL NOTES

AVAILABILITY OF ELECTRONIC FILES

MicroStation and GEOPAK files of this project will be made available to the Contractor after contract award. If there is a conflict between the electronic files and the printed contract plans and documents, the printed contract plans and documents shall take precedence over the electronic files. The Contractor shall accept all risk associated with using the electronic files and shall hold the Department harmless for any errors or omissions in the electronic files and the data contained therein. Errors or delays resulting from the use of electronic files by the Contractor shall not result in an extension of time for any interim or final completion date or shall not be considered cause for additional compensation. The Contractor shall not use, share, or distribute these electronic files except for the purpose of constructing this contract. Any claims by third parties due to use or errors shall be the sole responsibility of the Contractor. The Contractor shall include this disclaimer with the transfer of these electronic files to any other parties and shall include appropriate language binding them to similar responsibilities.

CRITICAL PATH WORK SCHEDULE REQUIREMENT

The Contractor will submit to the Engineer a satisfactory progress schedule and critical path schedule which shall show the proposed sequence of work at the time of the pre-construction conference.

CLEARING

At locations where clearing is indicated on the plans beyond the limits of the proposed excavation or embankment, the Contractor shall restore the disturbed earth by blading and shaping to blend with the adjacent ground. The clearing will not be paid for separately but shall be included in the cost of the excavation pay items in the plans. Payment for reseeding or resodding will be as provided in the plans.

TREE REMOVAL

The District Four Tree Committee should be contacted and prior approval obtained for any tree removal beyond the limits/locations included in the plans.

TRANSITION PAYMENT METHOD - NEWOLD CONSTRUCTION

Ten feet (10 ft.) (3 m) transitions shall be used to match proposed items of work to existing items in the field unless otherwise shown. The transition shall be paid for at the contract unit price for the proposed item of work specified.

SIGNING

Sign locations may vary from the stations shown on the plans in accordance with directions from the Engineer at the time of construction. Sign locations may be adjusted in the field to avoid any found utilities.

All wood post locations shall be verified with the Bureau of Operations, Traffic Section, before installation.

JOB-SPECIFIC NOTES

PROTECTIVE COAT APPLICATION

Protective coat shall be applied according to Section 503 of the Standard Specifications to all exposed surfaces of the new wingwall and top surfaces of all deck patches. The 14-day concrete curing period for protective coat application required in Article 503.19 shall be waved for this project.

CLEANING & PAINTING

Floor Drain surface cleaning and finish coat painting shall conform to Section 506 of the Standard Specifications,

WINGWALL

All necessary excavation and backfilling cost for the wingwall removal and replacement shall be incidental to Concrete Structures.

FILE NAME +	USER NAME * Jonesce	DESIGNED - CEJ	REVISED -
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	PLOT SCALE . 225,4925 1/ 10.	CHECKED -	REVISED -
Default	PLOT DATE * 8/15/2015	DATE - 5/12/2015	REVISED -

STATE	OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

GENERAL NOTES & COMITTMENTS	RYE. SECTION	COUNTY TOTAL SHEE SHEETS NO.
Structure No. 029-0059	317 E110218-130R	FULTON 10 2
	FULL-DEPTH DECK PATCHING	CONTRACT NO. 68C69
SCALE: SHEET OF SHEETS STA. TO STA.	ILL INOIS FED. AI	D PROJECT

			~		0014
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	100% STATE
	42001300	PROTECTIVE COAT	SO YD	112	112
	50102400	CONCRETE REMOVAL	CU YD	47.7	47.7
	50300100	FLOOR DRAINS	EACH	12	12
	50300225	CONCRETE STRUCTURES	CU YD	1	1
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	46.8	46.8
	50800205	REINFORCEMENT BARS. EPOXY COATED	POUND	12,270	12,270
	67100100	MOBILIZATION	LSUM	1	1
	70101835	TRAFFIC CONTROL AND PROTECTION. STANDARD BLR 22	LSUM	1	1
	70106800	CHANGEABLE MESSAGE SIGN	CALMO	2	2
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	410	410
	78300100	PAVEMENT MARKING REMOVAL	SO FT	137	137
	X7010226	TRAFFIC CONTROL AND PROTECTION. STANDARD 701501. SPECIAL	LSUM	1	1
	50300260	BRIDGE DECK GROOVING	SQ YD	112	112
14	50800530	MECHANICAL SPLICERS	EACH	344	344
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* SPECIALTY ITEM

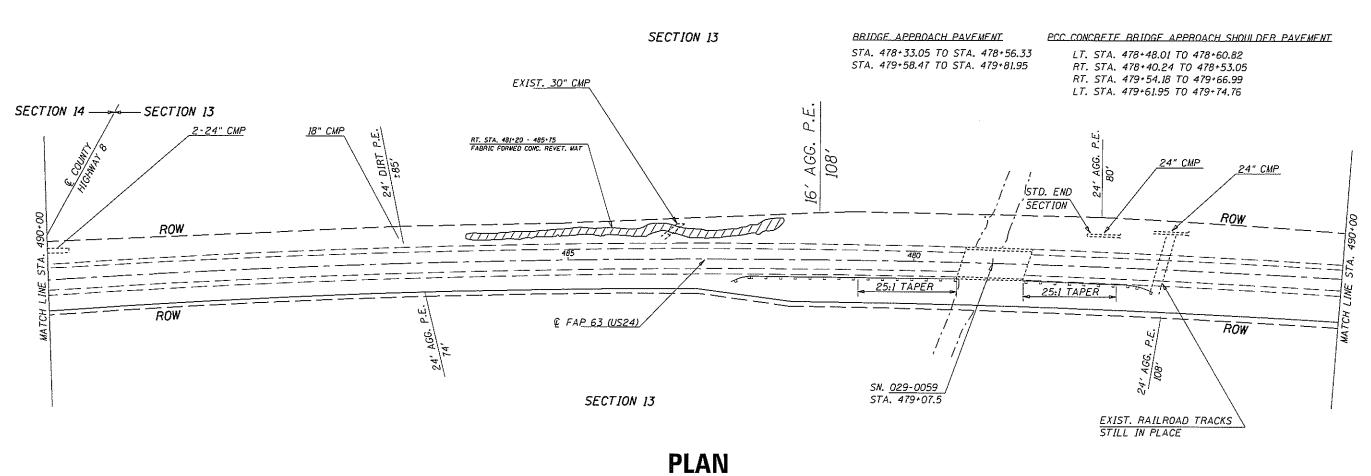
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	FILE NAME +	USER NAME # jonesee	DESIGNEO - CEJ	REVISED -
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		PLOT SCALE . 285,9925 ./ IA	CHECKED	REVISED -
Ì		PLOT CATE . 6/16/2015	DATE - 6/12/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES Structure No. 029-0059

CONST. CODE

F.A.P. RTÉ.	SECTION	COUNTY	TOTAL	SHEET NO.
317	(4102)8-130R	FULTON	10	3
FULL-O	EPTH DECK PATCHING	CONTRACT	NO.	8069
	ILLBIDIS FED. A	D PROJECT		



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	PLOT SCALE = 205,9925 1/10.	CHECKED -	REVISED	DEPARTMENT OF TRANSPORTATION	Structure No. 0290059	FULL-DEPTH DECK PATCHING	CONTRACT NO. 68C69
Default	PLOT DATE = 6/15/2015	DATE - 6/12/2015	REVISED -		SCALE: SHEET OF SHEETS STA TO STA	ILLINOIS FEE	D. AID PROJECT

SCHEDULE OF QUANTITIES

PROTECTIVE COAT

LOCATION	sayo
DECK PATCH & WINGWALL	11.7
TOTAL	11.7

CONCRETE SUPERSTRUCTURE

LOCATION		CUYD
DECK PATCH		31.9
	TOTAL	31.9

CHANGEABLE MESSAGE SIGN

LOCATION		CALMO
DETOUR ROUTES		2
	TOTAL	2

CONCRETE REMOVAL

LOCATION			CUYD		
DECK	PATCH	&	WINGWALL		32.9
				TOTAL	32.9

REINFORCEMENT BARS, EPOXY COATED

LOCATION		POUND
DECK PATCH		12700
	TOTAL	12700

<u>PAINT PAVEMENT</u> MARKING - LINE 4"

LOCATION		FOOT
BRIDGE DECK		410
	TOTAL	410

FLOOR DRAINS

LOCATION	EACH
BRIDGE DECK	12
TOTAL	12

MOBILIZATION

10		
LOCATION	-	LSUM
JOBSITE		1
	TOTAL	1

PAVEMENT MARKING REMOVAL

LOCATION		SQFT
BRIDGE DECK		137
	TOTAL	137

CONCRETE STRUCTURES

LOCATION		CUYD
WINGWALL		1
	TOTAL	1

T,C,&P, STD. BLR 22

LOCATION		LSUM
J0BSITE		1
	TOTAL	1

T.C.&P. STD. 701501 SPECIAL

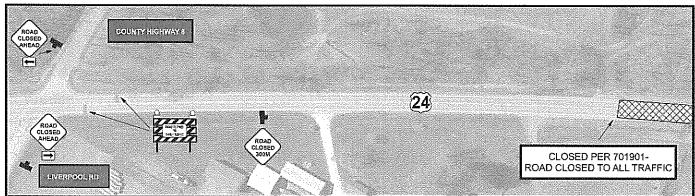
LOCATION	LSUM
JOBSITE	1
TOTAL	1

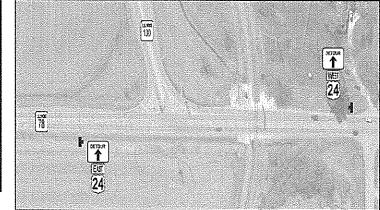
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	PLOT SCALE = 205,9925 '/ in.	CHECKED -	REVISED -
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DEPARTMENT OF	TRANSPORTATION

SCHEDULE OF QUANTITIES	F.A.P. SECTION	COUNTY TOTAL SH SHEETS I
Structure No. 029-0059	317 [(102)B-1)DR	FULTON 10
	FULL-DEPTH DECK PATCHING	CONTRACT NO. 680
CALE: SHEET OF SHEETS STA TO STA	ILLINOISI FED. A	ID PROJECT

DETOUR SHEET 1



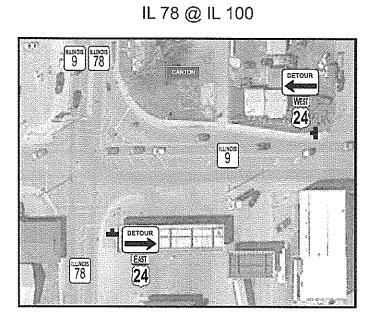


US 24 @ BUCKHEART CREEK -

ROAD CLOSED PER 701901ROAD CLOSED TO ALL TRAFFIC

ROAD CLOSED TO ALL TRAFFIC

ALL SIGNS SHALL BE POST MOUNTED DURING THIS DETOUR.



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FILE NAME =	USER NAME = jonesce	DESIGNED - CEJ	REVISED
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

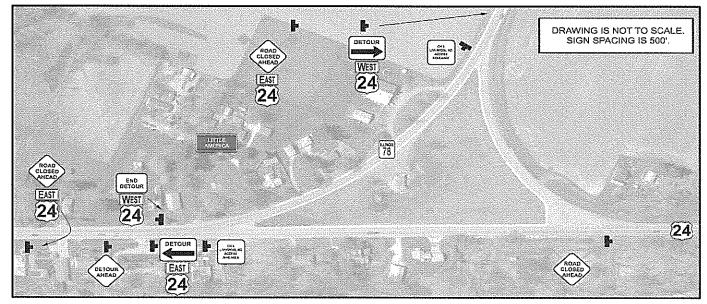
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			Structur	8	No. 029	-00!	59
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TO STA.

F.A.P. RTE.	SECTION		COUNTY	TOTAL	SHEET NO.
317	((102)8-13DR	Т	FULTON	10	6
 FULL-0	PTH DECK PATCHING	Т	CONTRACT		68069
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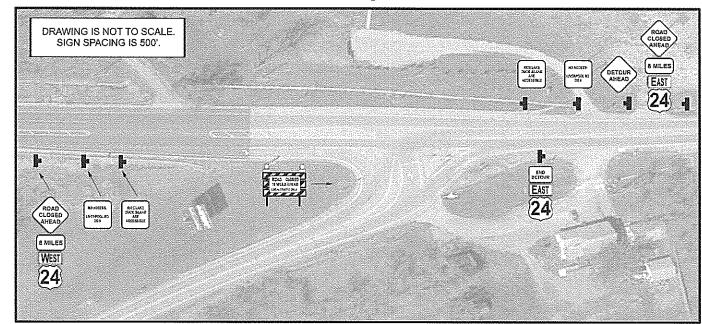
www.invarion.com

DETOUR SHEET 2





US 24 @ IL 78



US 24 @ IL 9- BANNER

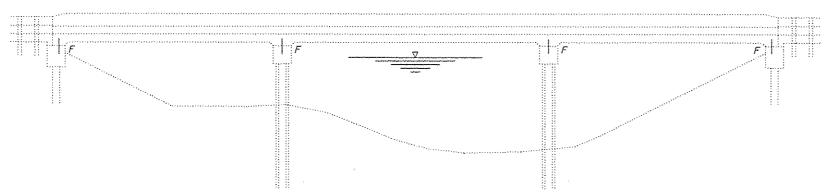
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	PLOT SCALE = 206,9925 '/ in.	CHECKEO -	REVISEO
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

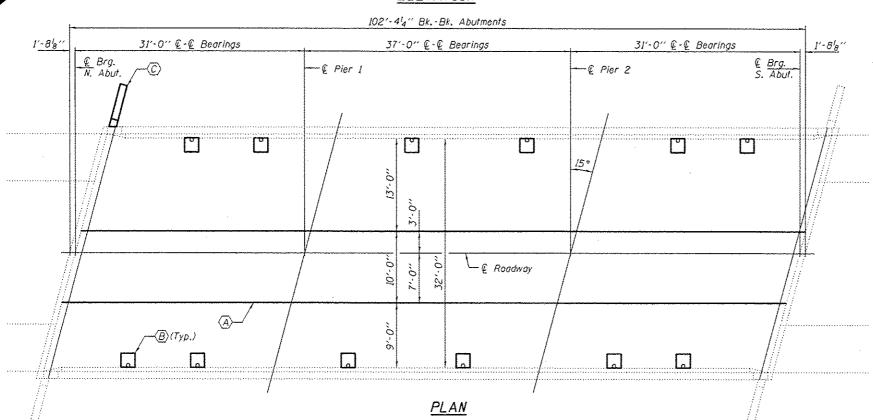
	PROPOSED T	RAFFIC CONTROL	
	Structure	No. 029-0059	
CHECK	~ **		-

TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
317	(1102)B-13DR	FULTON	10	7
FULL-0	EPTH DECK PATCHING	CONTRACT	NO. E	806
	ILLINOISI FED. A	ID PROJECT		



ELEVATION



- (A) Partially remove and replace existing slab.
- (B) Remove & replace existing drains with 6" Drains. (12 Locations)
- © Remove & Replace existing NE wingwall



EXPIRES, 11-30-2016

DESIGNED	Just	70/0		1	DATE	JUNE 26, 20
CHECKED	Steple	In Ryan]			VONE 20, 20
DRAWN	baliva		PASSED	Ha Carl Known	REVISED	
CHECKED	000	SMR		ACTING ENGINEER OF BRIDGES AND STAUCTORES		
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN AND ELEVATION FA63 (US 24) OVER BUCKHEART CREEK SN 029-0059 SHEET NO. 1 OF 4 SHEETS

TOTAL BILL OF MATERIAL

GENERAL NOTES

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

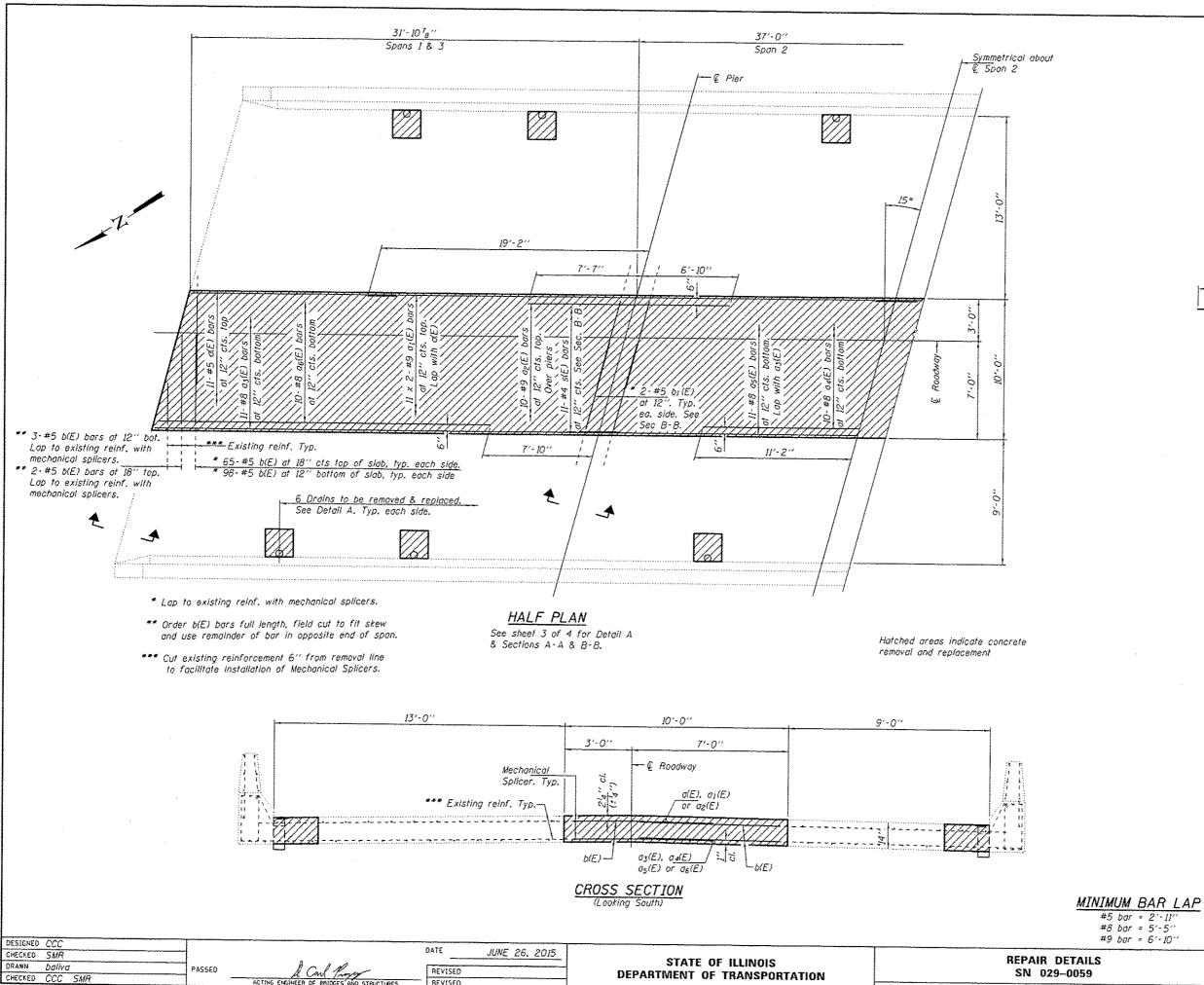
to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid

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, Traffic to be detoured during construction operations.

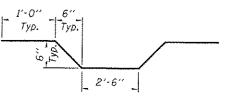
for the work.

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	47.7
Concrete Superstructure	Cu. Yd.	46.8
Concrete Structures	Cu. Yd.	0.9
Reinforcement Bars, Epoxy Coated	Pound	12270
Floor Drains	Each	12
Mechanical Splicers	Each	344
Protective Coat	Sq. Yd.	112
Bridge Deck Grooving	Sq. Yd.	112

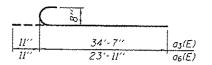


REVISED

DEPARTMENT OF TRANSPORTATION



BAR s(E)



BARS 03(E) & 06(E)

BILL OF MATERIAL

DILL OF WATLAIAL					
Bar	No.	Size	Length	Shape	
o(E)	22	#5	15'-9"		
a;(E)	22	#9	41'-3"		
oz(E)	20	#9	14'-5"		
93(E)	22	#8	35′-6′′		
04(E)	10	#8	22'-4"		
05(E)	11	#8	42'-6"		
06(E)	20	#8	24'-10''	ــــــ	
b(E)	331	#5	6'-6"		
DI(E)	8	#5	7'-0''		
					
h(E)	10	#5	5'-9''	~~~~	
s(E)	22	#4	5′-11″	~_~	
v(E)	7	#5	7'-2''		
Mechanical Splicers			Each	344	
Reinforcement Bars. Epoxy Coated			Pound	12270	
Concre			Cu. Yds.	46.8	

Bars indicated thus 11 x 3-#9 etc. indicates

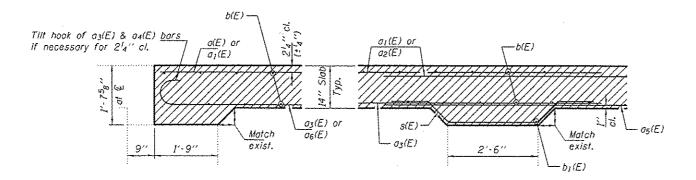
#5 bar = 2'-11" #8 bar = 5'-5" 11 lines of bars with 3 lengths per line. #9 bar * 6'-10"

SN 029-0059

SHEET NO. 2 OF 4 SHEETS

RTE.

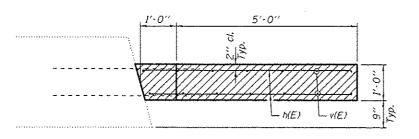
COUNTY TOTAL SHEET NO. FULTON 10 9 63 CONTRACT NO. 68C69



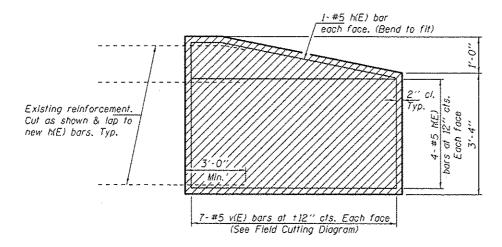
SECTION A-A

SECTION B-B

(Dimensions are at Rt. L's)

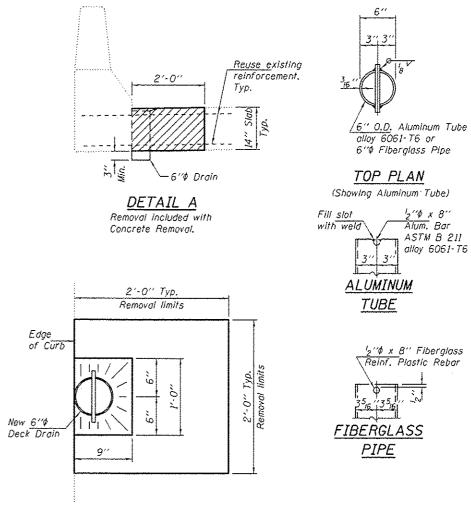


PLAN



<u>ELEVATION</u> NE WINGWALL REPAIR

Hatched areas indicate concrete removal and replacement

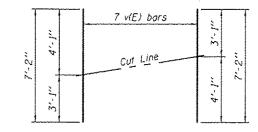


CONCRETE TREATMENT AT DRAINS

Notes:

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 the Society of Protective Coating's Spec. SSPC-SP1 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.



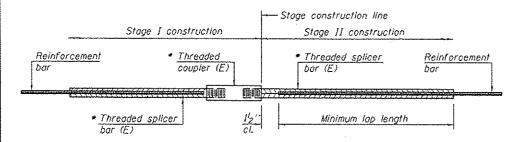
FIELD CUTTING DIAGRAM

Order v(E) bars full length. Cut as shown and use remainder of bars in opposite face.

DESIGNED	CCC			DATE	JUNE 26	. 2015
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)RAWN	baliva	PASSED	A Carl Proces	REVISED		
CHECKED	CCC SMR		ACTING ENGINEER OF BRIDGES AND STRUCTURES	REVISED		

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

REPAIR DETAILS	F.A. RTE.	SEC
SN 029-0059	63	£(102)
SHEET NO. 3 OF 4 SHEETS		

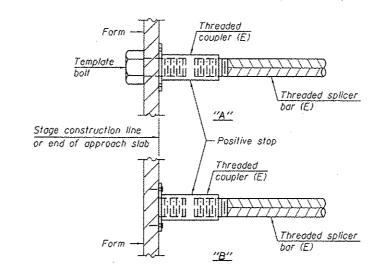


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + $I_2^{\prime\prime}$ + thread length

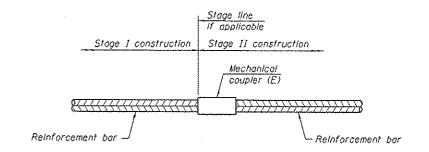
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No, assemblies required	Minimum Iap length
	 		



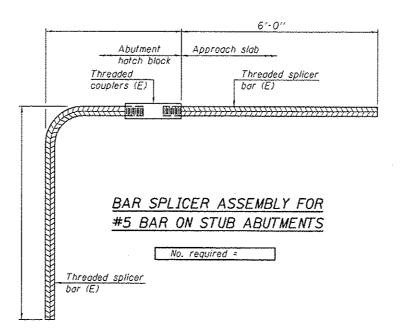
INSTALLATION AND SETTING METHODS

"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
Deck	#6	344
·		
		



NOTES

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

BSD-1

CHECKED CCC SMR

DESIGNED CCC

CHECKED SMR

DRAWN baliva

6-8-15 PASSED

A Carl Party G ENGINEER OF BRIDGES AND STRUCTUS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS

SN 029-0059

SHEET NO. 4 OF 4 SHEETS

F.A. SECTION COUNTY TOTAL SHEETS NO. 53 (110218-10R FULTON 10 10A CONTRACT NO. 68C69