09-22-2023 LETTING ITEM 057

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FOR INDEX OF SHEETS, SEE SHEET NO. 2

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

FAP ROUTE 42A (IL 127) SECTION BHF-42(65)BJR **BRIDGE JOINT REPLACEMENT AND DECK REPAIRS – CM CLINTON COUNTY**

C-98-139-22



PROJECT LOCATION IL 127 AT NS RR 0.2 MIN OF IL 161 SN 014-0015 LATITUDE: 38,536314 LONGITUDE: -89.352862 **DIVISION - MIDWEST**

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.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS 1-800-892-0123 OR 811

PROJECT ENGINEER CHERYL KEPLAR PROJECT MANAGER KAREN CHALLANDES

GROSS LENGTH = 52.8 FT. = 0.01 MILE NET LENGTH = 52.8 FT, = 0.01 MILE

CONTRACT NO. 76R64



INDEX OF SHEETS

- COVER SHEET
 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS
 3-4 SUMMARY OF QUANTITIES
 TYPICAL SECTION
 STAGING
 WIDTH RESTRICTION SIGNING
 AND RESTRICTION

- 8-21 BRIDGE SHEETS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENTS BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING

GENERAL NOTES

1. UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA:

AMEREN ILLINOIS AT&T ILLINOIS CLEARWAVE COMMUNICATION HOFFMAN RURAL WATER DISTRICT

2. NO SURVEY WAS PERFORMED FOR THIS PROJECT AND THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS.

3. FOUR (4) CHANGEABLE MESSAGE SIGNS SHALL BE REQUIRED FOR THIS PROJECT AND SHALL BE PLACED TWO (2) WEEKS PRIOR TO ANY LANE CLOSURE. THE CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AT THE DIRECTION OF THE ENGINEER.

USER NAME = Karen.Challandes	DESIGNED -	REVISED -			INDEX OF SHEETS, HIGHWAY STANDARDS					F.A.P BTE	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS		CENEDAL NOTES AND COMMUTMENTS				42A	BHF-42(65)BJR	CLINTON	21 2	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	OF TRANSPORTATION GENERAL NOTES, AND COMMITMENTS			· · ·	CONTRACT	NO. 76R64				
PLOT DATE = 2/10/2023	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FEI	D. AID PROJECT	

COMMITMENTS

NONE

D OF A FOOT BRIDGE REPAIR WITH BARRIER ES BARRIER

782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

REV. - MS

				CONSTR. C
				CONSTR. C
				RURAL
				BRIDGE
CODE			TOTAL	0047
NO.	ITEM	UNIT	QUANTITY	014-001
50102400	CONCRETE REMOVAL	CU YD	22	22
50157300	PROTECTIVE SHIELD	SQ YD	356	356
50300255	CONCRETE SUPERSTRUCTURE	CU YD	37.9	37.9
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4982	4982
50800515	BAR SPLICERS	EACH	64	64
57000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4	4
57100100	MOBILIZATION	LSUM	1	1
0106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	24	24
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	1120	1120
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	178	178
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	467	467
70300221	TEMPORARY PAVEMENT MARKING 🖂 LINE 4" - PAINT	FOOT	1400	1400

USER NAME = Karen.Challandes	DESIGNED	REVISED _	Ϋ́			SUMMA	BY OF	ΟΠΦΝ.	TITIES		F.A.P. BTE	SECTION	COUNTY	TOTAL	SHEET NO.
	DRAWN -	REVISED	STATE OF ILLINOIS			0011111		20/11			42A	BHF-42-(65)BJR	CLINTON	21	3
PLOT SCALE = 100.0000 * / in.	CHECKED .	REVISED	DEPARTMENT OF TRANSPORTATION										CONTRAC	T NO. 76	6R64
PLOT DATE = 2/10/2023	DATE -	REVISED +		SCALE:	SHEET	OF	SHEETS	S STA.		TO STA.		ILLINOIS FED. A	ID PROJECT		

REV. - MS

				100% STATE					100% STAT
				CONSTR. CODE					CONSTR. CO
CODE NO.	ITEM	UNIT	TOTAL	RURAL BRIDGE 0047 014-0015	CODE NO .	ITEM		TOTAL	RURAL BRIDGE 0047 014-0015
NO.			QUANTITI	014-0015	NO.	1 I L M		QUANTITI	014-0015
70300281	TEMPORARY PAVEMENT MARKING - LINE 24 - PAINT	FOOT	36	36	Z0048665	5 RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	487.5	487.5				1 1 1 1 1	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	375	375					
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2					
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2				-	
8300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	472	472					
5060601	CONTAINMENT AND DISPOSAL OF NON-LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1	1					
5870015	BRIDGE DECK CONCRETE SEALER	SQ FT	6407.2	6407.2					
7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 (SPECIAL)	EACH	1	1					
7200201	WIDTH RESTRICTION SIGNING	L SUM	1	1					
:0001903	STRUCTURAL STEEL REMOVAL	POUND	2070	2070					
0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1					
0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	7.4	7.4					
0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	51.9	51.9					
									1

USER NAME = Karen.Challandes	DESIGNED	REVI SED _				SUMMA	RY OF	DUANTITIES		F.A.P.	SECTION			AL SHEET
	DRAWN	REVI SED	STATE OF ILLINOIS						42A	BHF-42-(65)BJF		NTON 2	1 4	
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REV. - MS



ROADWAY NORTH AND SOUTH OF THE STRUCTURE STA. 297+62 STA. 299+61

LEGEND

- EXISTING CONCRETE PAVEMENT 9-6-9
 EXISTING PCC WIDENING, 8"
 EXISTING HOT-MIX ASPHALT SHOULDER, 9¹/₄"
 EXISTING RESURFACING, 5³/₄"
 EXISTING AGGREGATE WEDGE SHOULDER, TYPE B

USER NAME = Karen Challandes	DESIGNED -	REVISED -				тур	PICAL SE	CTION		F.A.P. BTE	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS				IOAL OL			42A	BHF-42(65)BJR	CLINTON	21 5
PLOT SCALE = 100.0000 / in	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRACT	NO. 76R64
PLOT DATE = 2/10/2023	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT	



STAGE 1

PLACE 375' OF TEMPORARY BARRIER IN STAGE 1.

SEE STANDARD 701321 FOR DETAILS NOT SHOWN.



PLACE 112.5' OF TEMPORARY CONCRETE BARRIER IN STAGE 2. RELOCATE 375' TEMPORARY CONCRETE BARRIER IN STAGE 2.

SEE STANDARD 701321 FOR DETAILS NOT SHOWN.

USER NAME = K	Karen Challandes	DESIGNED -	REVISED -					STAG	NC
		DRAWN -	REVISED -	STATE OF ILLINOIS				JIAG	nuc.
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			42A	BHF-42	(65)BJR		CLINTON	21		6
_							CONTRACT	NO.	76	R64
S	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT			



Existing Structure: 014-0015 was built in 1936 under F.A. Route 128, Sec 1VB-WPGH. This bridge consisted of 3 continuous wide flange beams supported on pile bent abutments and piers. In 1963 the bridge was reconstructed under Job number 22503, F.A. Route 128, Sec 1(W,RS)-1. In 1988 the bridge was reconstructed again under contract 96085, F.A. Route 42, Sec 1-VBR. The existing superstructure, abutment & pier caps, upper footage of pier piling was removed. New piling driven for bridge widening was placed. Existing pier piling was extended. A new superstucture along with new abutment and pier caps were constructed.

The deck end, mudwalls and approach ends shall be removed and replaced solid. Before replacing solid, the beam end shall be cleaned and painted. The deck shall be patched.

Stage Construction shall be used.





PLAN

AVVNE R AVV

> SER NAME = Anthony Vinson LOT SCALE = 0:2.0000 ':" / in.

ppires 11-30-2024

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	22.0
Concrete Superstructure	Cu. Yd.	37.9
Reinforcement Bars, Epoxy Coated	Pound	4982
Bar Splicers	Each	64
Bridge Deck Concrete Sealer	Sq. Ft.	6407.2
Structural Steel Removal	Pound	2070
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	7.4
Deck Slab Repair (Partial)	Sq. Yd.	51.9
Cleaning and Painting Steel Bridge, No. 1	L Sum	1
Containment & Disposal of Non-Lead Paint	L. Sum	1
Cleaning Resisidues No. 1		
Protective Shield	Sq. Yd.	356





LOCATION SKETCH

Reinfo

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. As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by grinding ¼ inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

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.

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

Bridge deck concrete sealer shall be placed on top/inside faces of (parapets & curbs) (full length) and on top of new concrete at joints. In addition, place sealer on the existing deck surface.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". After removal of deck ends and end diaphragms, but prior to encasement of the steel beams, all beams, bearings and other structural steel within 6' (measured along the beam) of the deck joints shall be cleaned per Near White Blast Cleaning- SSPC-SP10.

The designated areas cleaned per Near White Blast Cleaning shall be painted according to the requirements of paint system 1- 0Z/E/U. The color of the final finish coat for all steel surfaces shall be Interstate Green (Munsell No. 7.56 4/8).

Containment of cleaning residue is required to control nuisance dust. See special provisions for Containment and Disposal of Non-Lead Paint Cleaning Residues.

SSPC QP1 Certification is required for this Contract.

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

The concrete at joints shall have its final finish tined according to Article 420.09(e)(1) of the Standard Specifications. Cost included with "Concrete Superstructure".

-SN 014-0015

<u>DESIGN STRESSES</u> <u>FIELD UNITS</u> f'c = 4,000 psi fy = 60,000 psi (Reinforcement)

GENERAL PLAN & ELEVATION [IL 127 over NS RR (in Posey)]	SECTION COUNTY SHEETS NO.
DRAWN - Anthony Y. Vinson REVISED - STATE OF ILLINUIS	BHF-42(65)BJR CLINTON 21 8
CHECKED REVISED - DEPARTMENT OF TRANSPORTATION SN 014-0015	CONTRACT NO. 76R64
DATE - REVISED - SCALE: SHEET 1 OF 14 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT

DDEL: 0140015-76R64-001 .E NAME: pw:\\ildat-pw.bentley.com:PWIDOT\Documents\IDOT

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

SHEET INDEX

General Plan and Elevation
 Deck Section
 Joint Removal & Replacement (S. Abut.)
 Joint Removal & Replacement (N. Abut.)
 X-Sec (Appr. Removal & Replacement)(S Abut)
 X-Sec (Appr Removal & Replacement) (N Abut)
 Existing Joint Details
 Proposed Joint Details
 Diaphragm at Abutment (S Abut)
 Deck Patching Survey (Sketch)
 Deck Patching Survey (Data)
 Temporary Concrete Barrier
 Bar Splicer





SCALE:

SHEET 3 OF 14 SHEETS

LOT DATE = 2/9/2023

DATE

REVISED

CEI	CEMENT (S. Abutment)			SECT	FION		COUNTY	SHEETS	NO.
101	015			BHF-42	BHF-42(65)BJR			21	10
							CONTRACT	NO. 76	5R64
S	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		



 USER NAME = Anthony.Vinson
 DESIGNED AYV
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 REVISED STATE OF ILLINOIS

 PLOT SCALE = 5:6.0000 \" / in.
 CHECKED REVISED DEPARTMENT OF TRANSPORTATION

 PLOT DATE = 2/9/2023
 DATE REVISED REVISED

SHEET 4 OF 14 SHEETS

SCALE:

0140015-76R64-00 VE: pw:\\ildot-pw.b

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					CONTRACT	NO. 76	5R64
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m	& Repl.) (S.	Abut.)	RTE.	SLC	ION		COUNTI	SHEETS	NO.
)O'	15		42A	BHF-42	(65)BJR		CLINTON	21	12
	15						CONTRACT	NO. 76	5R64
S	S STA. TO STA.				ILLINOIS	FED. AI	D PROJECT		



USER NAME = Anthony.Vinson	DESIGNED - AYV	REVISED -		C	ROSS SECTION (Appr Rem & Repl) (N Abut)	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	HEET NO
	DRAWN - AYV	REVISED -	STATE OF ILLINOIS	-	SN 014-0015	42A	BHF-42(65)BJR	CLINTON	21	13
PLOT SCALE = 3:0.0000 ':" / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		SN 014-0015			CONTRACT	Г NO. 76F	R64
PLOT DATE = 3/21/2023	DATE -	REVISED -		SCALE:	SHEET 6 OF 14 SHEETS STA. TO STA.		ILLINOIS FE	D. AID PROJECT		



USER NAME = Anthony Vinson	DESIGNED - AYV	REVISED -			EXISTING JOINT DETAILS	F A P BTE	SECTION	COUNTY TOTAL SHEET
	DRAWN - AYV	REVISED -	STATE OF ILLINOIS			42A	BHF-42(65)BJR	CLINTON 21 14
PLOT SCALE = 2:2.0000 ':" / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		SN 014–0015			CONTRACT NO. 76R64
PLOT DATE = 2/9/2023	DATE -	REVISED -		SCALE:	SHEET 7 OF 14 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	84	#5	16'-11"	
a1(E)	20	#6	4'-0"	
a2(E)	16	#6	16'-11''	
a3(E)	4	#4	16'-11''	
b(E)	62	#5	8'-7"	
b1(E)	18	#4	7'-6"	
b2(E)	62	#5	8'-1'' 7'-0''	
b3(E)	18	#4	7'-0"	
d(E)	20	#4	3'-0"	_
d1(E)	22	#5	3'-0"	
d2(E)	10	#5	2'-7"	~
d3(E)	20	#4	3'-3"	Ĺ
d4(E)	12	#5	2'-4"	l
m(E)	48	#6	5'-11"	
m1(E)	8	#6	1'-10''	
m2(E)	8	#6	2'-3"	
s(E)	64	#5	8'-1"	J
v(E)	79	#8	1'-8"	
x(E)	50	#4	3'-0"	
	e Remov	al	Cu. Yd.	22.0
Concret			Cu.Yd.	37.9
Superst	ructure			
	cement i	Bars,	Pound	4980
Ероху (Coated			





USER NAME = Anthony.Vinson	DESIGNED - AYV	REVISED -			DIAPHRA	GM	ΔT SC	DUTH
	DRAWN - AYV	REVISED -	STATE OF ILLINOIS	1				
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PLOT DATE = 2/23/2023	DATE -	REVISED -		SCALE:	SHEET 9	OF 14	SHE	ETS

JTI	H ABUTMENT		F.A.P. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
101	015			BHF-42	65)BJR		CLINTON	21	16
501	15						CONTRACT	NO. 76	5R64
ΤS	STA. TO STA.				ILLINOIS	FED. AI	D PROJECT		



* Epoxy grout v(E) bars in 9" min. holes according to Article 584 of the Standard Specifications. (Cost included with Concrete Superstructure.)

PLAN VIEW THRU DIAPHRAGM

** Preformed Flexible Foam Expansion Joint Filler. (Cost included with Concrete Superstructure)

*** 2" diam. PVC Pipe, Sch. 40 (Cap top of pipe) (Cost include w/Conc Superstructure.)

USER NAME = Anthony.Vinson	DESIGNED - AYV	REVISED -			DIAPHRAGM AT NORTH ABUTMEN	т	F.A.P. BTE	SECTION	COUNTY TO	JTAL SHEET
	DRAWN - AYV	REVISED -	STATE OF ILLINOIS		SN 014-0015	•	42A	BHF-42(65)BJR	CLINTON	21 17
PLOT SCALE = 3:4.0000 ':" / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		311 014-0013				CONTRACT N	IO. 76R64
PLOT DATE = 2/23/2023	DATE -	REVISED -		SCALE:	SHEET 10 OF 14 SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT	



R١	/EY (SKETCH)		F.A.P. RTE. SECTION			COUNTY	SHEETS	SHEET NO.	
101	15		42A	BHF-42	(65)BJR		CLINTON	21	18
							CONTRACT	NO. 76	5R64
S	STA. TO STA.				ILLINOIS	FED. AI	D PROJECT		

Patch		23	23	Cell		(Ctrl + D)]	Full or
# on 1	Patch	Start	End		Offse	ets (ft)		Length	Width	Area	Partial
sketch	#	Sta	Sta	From		То		(ft.)	(ft.)	(sy)	Depth
10	10	299+08	299+22	0	Lt	1.8	Lt	14.1	1.8	2.82	Р
11	11	299+22	299+26	0	Lt	2.6	Lt	4.1	2.6	1.18	Р
12	12	299+26	299+30	0	Lt	1.2	Lt	4	1.2	0.53	Р
13	13	299+31	299+32	3.7	Lt	4.7	Lt	1	1	0.11	Р
14	14	297+93	297+96	1.2	Rt	5.7	Rt	3.4	4.5	1.70	Р
15	15	297+96	297+99	0	Rt	2.7	Rt	3	2.7	0.90	Р
16	16	297+99	298+01	5.1	Rt	7.1	Rt	2	2	0.44	Р
17	17	298+06	298+08	0	Rt	1.6	Rt	2	1.6	0.36	Р
18	18	298+17	298+21	0	Rt	2.7	Rt	4.3	2.7	1.29	Р
19	19	298+21	298+23	0	Rt	1.3	Rt	2	1.3	0.29	Р
20	20	298+21	298+24	1.3	Rt	4.4	Rt	3	3.1	1.03	Р
21	21	298+27	298+35	0	Rt	1.3	Rt	8	1.3	1.16	Р
22	22	298+39	298+41	1.2	Rt	3.7	Rt	2.7	2.5	0.75	Р
23	23	298+45	298+46	4	Rt	5	Rt	1	1	0.11	Р
24	24	298+49	298+50	4.2	Rt	5.4	Rt	1.8	1.2	0.24	Р
25	25	298+51	298+55	0	Rt	5.4	Rt	3.7	5.4	2.22	Р
26	26	298+55	298+57	0	Rt	1.7	Rt	1.8	1.7	0.34	Р
27	27	298+58	298+59	3.9	Rt	5.4	Rt	1.5	1.5	0.25	Р
28	28	298+62	299+25	0	Rt	1.2	Rt	63	1.2	8.40	Р
29	29	298+63	298+64	3.9	Rt	5.9	Rt	1.5	2	0.33	Р
30	30	298+89	299+02	12.9	Rt	14.4	Rt	13	1.5	2.17	Р
31	31	298+91	298+92	3.1	Rt	12.5	Rt	1.5	9.4	1.57	Р
32	32	299+04	299+05	5.5	Rt	7.7	Rt	1.5	2.2	0.37	Р
33	33	298+70	299+00	1	Lt	1		30	2	6.67	F
									T , , ,	50 D C -	

Total 59.3 Sq. Yd.

51.9 Partial

7.4 Full Depth, Type II

USER NAME = Anthony Vinson	DESIGNED - AYV	REVISED -			DECK PATCHING SU	RVEY (DATA)	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	DRAWN - AYV	REVISED -	STATE OF ILLINOIS			• •	42A	BHF-42(65)BJR	CLINTON	21 19
PLOT SCALE = 0:2.0000 ':" / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	DECK PATCHING SURVEY (DATA) SN 014–0015 SCALE: SHEET 12 OF 14 SHEETS STA. TO STA.	15			CONTRACT	NO 76R64	
PLOT DATE = 2/9/2023	DATE -	REVISED -		SCALE:	SHEET 12 OF 14 SHEETS	STA. TO STA.		ILLINOIS FED. A	ID PROJECT	



reinforcement to accommodate the installation of the retainer assemblies.

beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart,

			F A P RTE 42A	SECTION BHF-42(65)BJR			COUNTY	TOTAL SHEETS 21	SHEET NO. 20
. U	14-0015						CONTRACT	NO. 76	5R64
TS	TS STA. TO STA.				ILLINOIS	FED. AI	D PROJECT		





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.

Threaded splicer bar length = min. lap length + $1\frac{1}{2}$ " + thread length

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

(All components shall be provided from one supplier)

Location	Bar size	No. assemblies required	Minimum Iap length
Abutments	#4	2	2'-5"
Abutments	#5	42	3'-6"
Abutments	#6	20	4'-0"



BSD-1	1-1-2020							
	USER NAME = Anthony.Vinson	DESIGNED - AYV	REVISED -		BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS		SECTION	COUNTY TOTAL SHEET
		DRAWN - AYV	REVISED -	STATE OF ILLINOIS		42A	BHF-42(65)BJR	CLINTON 21 21
	PLOT SCALE = 0:2.0000 '." / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 014-0015			CONTRACT NO. 76R64
	PLOT DATE = 2/9/2023	DATE -	REVISED -		SCALE: SHEET 14 OF 14 SHEETS STA. TO STA.		ILLINOIS FED. A	ID PROJECT



STANDARD MECHANICAL SPLICER

		NI 1.1.
Location	Bar	No. assemblies
	size	required

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.