11-04-2016 LETTING ITEM 077

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 3-5

FOR STRUCTURAL PAVEMENT DESIGN INFORMATION, SEE SHEET NO. NA

TRAFFIC DATA

 \bigcirc

0

0

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IL 3 TRAFFIC DATA

2015 ADT = 4100 10 % TRUCKS

TOWNSHIP:

ALEXANDER COUNTY ROAD DISTRICT

PROPOSED HIGHWAY PLANS

FAP 14 (IL 3) SECTION D9 CM BRIDGE REPAIR 2017–1 OVER UPRR AT THEBES BRIDGE JOINT REPAIR ALEXANDER COUNTY

C-99-032-16



DESIGN DESIGNATION : NA

COORDINATE SYSTEM : NA

POSTED SPEED : 55 MPH

J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: DAVID PICHE PROJECT DESIGNER: T. WAYNE HALSTEAD

CONTRACT NO. 78530

 $\begin{array}{rcl} \text{GROSS LENGTH} &=& 205.0 \ \text{FT.} &=& 0.04 \ \text{MHLES} \\ \text{NET LENGTH} &=& 205.0 \ \text{FT.} &=& 0.04 \ \text{MHLES} \\ \end{array}$



STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION OFFICE OF HIGHWAYS PROJECT IMPLEMENTATION

SUBMITTED August 9 20 16 Affrig & Kein REGION FIVE ENGINEER 20 0 MOON M. ADDIS PE. BL TO ENGINEER OF DESIGN AND ENVIRONMENT 30 20 100 DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

- 1) THE THICKNESS OF HOT-MIX ASPHALT MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT MIXTURE IS PLACED.
- 2) FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT MIX ASPHALT	2.016 TONS/CU YD
BITUMINOUS MATERIALS: (TACK COAT) ON PAVENENT	0.05 POUND/SO FT

- 3) THE ADVANCE DETECTOR LOOPS ARE TYPICALLY LOCATED 275 FEET IN ADVANCE OF THE STOP BAR. THE BUREAU OF OPERATIONS SHOULD APPROVE THE LOOP LOCATIONS PRIOR TO INSTALLATION.
- 4) IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16 THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR ALL EQUIPMENT AS DEFINED IN ARTICLE 101.16 REGARDLESS IF TRACK MOUNTED OR WHEELED.
- 5) TRIM EDGES OF EXISTING HOT MIX ASPHALT SURFACE FLUSH WITH EXISTING PAVEMENT PRIOR TO CONSTRUCTING NEW BASE COURSE WIDENING.
- 6) IF THE CONTRACTOR ELECTS TO USE P.C.C. BASE COURSE WIDENING. SUCH WIDENING SHALL BE PRIMED ACCORDING TO ARTICLE 406.02, EXCEPT THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE WIDENING.
- 7) THE CENTERLINE PAVEMENT MARKING SHOULD BE REMOVED FROM THE STOP BAR TO THE SAND ATTENUATORS OR DRUMS. EDGE LINE PAVEMENT MARKING SHOULD BE REMOVED IF A 10 FOOT LANE WIDTH CANNOT BE MAINTAINED. TEMPORARY EDGE LINES SHOULD BE INSTALLED WHEN THE EDGE LINES ARE REMOVED.
- 8) ANY TIME THE CONCRETE BARRIER IS NOT IN THE PROPER POSITION, FLAGGERS SHALL BE IN PLACE TO CONTROL TRAFFIC. THE TEMPORARY TRAFFIC SIGNALS SHALL BE SET TO FLASH ALL RED.
- 9) THE CONTRACTOR SHALL CONTACT UPRR MTM (MASTER OF TRACK MAINTENANCE) KEVIN FERNALLD (402)-501-1305 OR (573)-270-7345, 2 WEEKS PRIOR TO STARTING WORK.

101 COMMITMENTS: NONE AS OF AUGUST 12, 2016.

MIXTURE REQUIREMENTS

Location(s):	Base Course Widening
Mixture Use(s):	Hot-Mix Asphalt Binder Course, N70, IL-19.0
AC/PG:	PG64-22
ABR % (Mox):	See Special Provision
Design Air Voids:	4.0 %, 70 Gyration Design
Mixture Composition: (Gradation Mixture)	1L-19. Omm
Friction Aggregate:	None
Quality Management Program:	QCOA

Location(s):	Hot-Mix Asphalt Surface Course									
Mixture Use(s):	Hot-Mix Asphalt Surface Course, Mix C, N70 Fine Graded									
AC/PG:	PC64-22									
ABR % (Mox):	See Special Provision									
Design Air Voids:	4.0 %, 70 Gyration Design									
Mixture Composition: (Gradation Mixture)	IL-9.5mm Fine Groded									
Friction Aggregate:	C Surface									
Quality Management Program:	A030									

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STANDARD SYMBOLS, ABBREVIATIONS
OFF-ROAD, 2L2W MORE THAN 15'
OFF-ROAD, 2L2W 15' TO 24" FRO
LANE CLOSURE. 212W DAY ONLY.
LANE CLOSURE, 2L2W BRIDGE REP
LANE CLOSURE, 2L2W PAVEMENT W
TRAFFIC CONTROL DEVICES
TEMPORARY CONCRETE BARRIER
TYPICAL PAVEMENT MARKINGS

000001-06

701001-02

701006-05

701201-04

701321-15

701326-04

701901-05

704001-08

780001-05

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INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS; GENERA
3-5	SUMMARY OF QUANTITIES
6	GENERAL PLAN AND ELEVAT
7	STAGING TYPICAL SECTION
8	STACING DETAILS
9	JOINT REPAIR DETAILS
10	PREFORMED JOINT STRIP S
11	BAR SPLICER ASSEMBLY BS
12	TEMP. CONCRETE BARRIER
13	BUTT JOINT DETAILS

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AND PATTERNS FROM PAVEMENT EDGE OM PAVEMENT EDGE FOR SPEEDS ≥ 45 MPH PAIR WITH BARRIER WIDENING, FOR SPEEDS \geq 45 MPH

AL NOTES: STANDARDS

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SEAL 50-1 (R-27)

	Prepared By:
	Examined By:
	Examined By: Canlutan
	Examined By:
	Examined By:
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TO STA	CONTRACT NO. 78530

SUMMARY	ΛE		ΤT	IFS	
JUNINALI	UT	QUANT		ILS	

SUMMARY OF QUANTITIES			ALEXANDER IL 3
			100% STATE
CODE NUMBER	ITEM DESCRIPTION	UNIT	CONSTRUCTION CODE
35650500	BASE COURSE WIDENING 10"	SO YD	210
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	128
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	239
40600000			52
40600990			
50102400	CONCRETE REMOVAL	CU YD	22. 7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	25.0
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4, 340
50800515	BAR SPLICERS	EACH	24
52000110	PREFORMED JOINT STRIP SEAL	FOOT	91
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	821
	· · · · ·		
67100100	MOBILIZATION	LSUM	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1
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	SUMMART OF QUANTITIES - CONT		IL 3
			100% STATE
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CODE NUMBER	ITEM DESCRIPTION	UNIT	CONSTRUCTION CODE 0014
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	LSUM	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	4
70100500		CA00	
/0106500	TEMPURART BRIDGE TRAFFIL SIGNALS	LALH	1
70106800	CHANCEARIE MESSAGE SIGN	CAL MO	1
			4
70300100	SHORT TERM PAVEMENT MARKING	FOOT	74
· · · · · · · · · · · · · · · · · · ·			
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	25
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3, 076
70400100	TEMPORARY CONCRETE BARRIER	FOOT	450
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	400
·			
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2
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			100% STATE
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CODE NUMBER	ITEM DESCRIPTION	UNIT	CONSTRUCTION CODE OOH
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3, 076
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	4
86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1
XU321980	PAVEMENT MARKING REMUVAL - WATER BLASTING		494
X7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	24
20016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	1.0
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1
(0300002	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FC, N70	TON	86

* SPECIALTY ITEM

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DEPARTMENT OF TRANSPORTATION

SCALE: SHEET 1 OF 7 SHEETS

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

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. Cast included with Concrete Removal. Reinforcement bars designated (E) shall be epoxy coated.

TOTAL BILL OF MATERIAL

ITEM	UNIT	OUANITY
	<u></u>	
Hor-Mix Asphalt Surface Course. IL-9.5FG, N/O	lon	58
Waterproofing Membrane System	Sq. Yd.	821
Reinforcement Bars, Epoxy Coated	Pound	4340
Bar Splicers	Each	24
Preformed Joint Strip Seal	Foot	91
Deck Slab Repair (Partial)	Sq. Yd.	1.0
Concrete Removal	Cu. Yd.	22.7
Concrete Superstructure	Cu. Yd.	25.0

BRIDGE REPAIR IL 3 (FAP 14) OVER UPRR AT THEBES ALEXANDER COUNTY D9 CM BRIDGE REPAIR 2017-1 STA. 1101+79.50 SN 002-0031

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		14	•	ALEXANDER	13	8
				CONTRACT	NO. 7	8530
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All Sections looking North.



TOP PLAN Slope HMA at Drains



			*D9 CM BR	IDGE	REPAIR 2	2017 - 1		
AI	ND STAGING	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
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		**D9 CM BR.	IDGE REPA	IR 201	7-1
DETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BILL OF MATERIAL (BOTH JOINTS)

Bar	No.	Size	Length	Shape
a(E)	18	#7	22'-2''	
<i>α</i> 1(E)	18	#7	20'-2''	
a ₂ (E)	20	#6	4'-0''	
a₃(E)	60	#6	5′-2″	
d(E)	20	#5	5′-2″	
d1(E)	20 #5		3′-11′′	J
h(E)	6	#6	22'-2''	
$h_I(E)$	6	#6	20'-2''	
$x_1(E)$	144	#6	7′-6″	
Concre	te Super	rstructure	Cu. Yd.	25.0
Concre	te Remo	Cu. Yd.	22.7	
Reinfo Epoxy	rcement Coated	Pound	4340	



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The strip seal shall be made continuous and shall have a minimum thickness of l_{4} ". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be ${}^{3}_{16}$ ",

sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

TULINOIS FED ATD PROJECT

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.

	BILL OF MATERIAL							
		Item		Unit	Total	٦		
	Preforme	ed Joint Stri	'p Seal	Foot	91	_		
	PREI	FORMED	JOINT	STRIP	SEAL	, =		
		ALEXA	NDER (COUNTY				
	S	TRUCTUF	RE NO.	002-00	9 <u>31</u>			
			∗D9 CM	BRIDGE REP	AIR 201	.7-1		
	F.A.P. RTE	SECT	ION	COUNTY	TOTAL SHEETS	SHEE'		
STRIP SEAL	14	•		ALEXANDER	13	10		
				CONTRACT	NO.7	8530		



Threaded splicer bar length = min. lap length + 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 Iap length
Abutments (deck)	#7	18	4'-2''
Hatch Block	#6	6	4'-0''



INSTALLATION A	4 <i>ND</i>	SETTING	METHODS
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"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.



BSD-1

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	Stage line if applicable
Stage I construction	Stage II construction
	Mechanical
844444444444444444444444444444444444444	
Reinforcement bar _	Reinforcement bar

STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies 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.

* D9 CM BRIDGE REPAIR 2017-1



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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.

- * 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.



RESTRAINING PIN





NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1" x 7' 'x "W" steel P to the
top layer of couplers with $2 - \frac{5}{8}$ '' ϕ bolts
screwed to coupler at approximate Q of
each barrier panel.
Detail II - With Extended Reinforcement Bars:
Connect one (1) 1'' x 7'' x ''W'' steel $P_{\rm c}$ to the concrete
slab or concrete wearing surface with 2- ${}^{5}\!$
Expansion Anchors or cast in place inserts
spaced between the top layer of reinforcement
at approximate $\mathcal Q$ of each barrier panel.
Cost of retainer assembly is included with Temporary Concrete Barrier.
The 1/4 or 7/4 or //1/4/4 eleker shell and he measured undit sheet. It are shows the

* D9 CM BRIDGE REPAIR 2017-1

FOR STAGE CONSTRUCTION				SECTI	ON	COUNTY	TOTAL SHEETS	SHEET NO.
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BUTT JOINT



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REVISED	3-25-08
REVISED	5-17-13

HOT-MIX ASPHALT SURF CSE /MIX C, 1³/₄''

STD. 9-86