04-25-2025 LETTING ITEM 060

0

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

D-92-088-25

PROPOSED HIGHWAY PLANS

ROUTE VARIOUS SECTION D2 LIGHTING 2025 LIGHTING **VARIOUS COUNTY**

C-92-011-25

R2E

PROJECT LOCATION IL 75 & I-90

PROJECT LOCATION WILLOW CREEK REST AREA

PROJECT LOCATION IL 251 AND ROCKTON RD.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION OF SECTION INDICATED THUS: -

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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.

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

PROJECT ENGINEER: Scott Kullerstrand Designer: Nick Vock (815-284-5407)

CONTRACT NO. 64U13

INDEX OF SHEETS

1 COVER SHEET

838001-01

2 INDEX OF SHEETS, STANDARDS, GENERAL NOTES

PLAN SHEET - TURTLE CREEK REST AREA

- 3 SUMMARY OF QUANTITIES
- 4 LUMINAIRE PERFORMANCE TABLE
- 5 PLAN SHEET I-90/ IL 75
- 6 PLAN SHEET I-90/ IL 75
- 8 PLAN SHEET IL 251/ ROCKTON RD.
- 9 CONTROLLER INSTALLATION DIAGRAM

BREAKAWAY DEVICES

HIGHWAY STANDARDS

701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45MPH
701456-05	PARTIAL EXIT RAMP CLOSURE, FREEWAY/ EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON TRAVERSABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-10	TRAFFIC CONTROL DEVICES
821101-03	LUMINAIRE WIRING IN POLE
825011-04	LIGHTING CONTROLLER PEDESTAL MOUNTED, 240V
830021-04	LIGHTING POLE STEEL TENON TOP
838001-01	BREAKAWAY DEVICES
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY

 USER NAME
 = Nicholas.Vock
 DESIGNED REVISED

 DRAWN REVISED

 PLOT SCALE = \$SCALE\$
 CHECKED REVISED

 PLOT DATE = 2/11/2025
 DATE REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

GENERAL NOTES

CONTRACTOR AND ENGINEER TO CONFIRM COUNT OF LUMINAIRE, BRACKETS, AND COUPLINGS PRIOR TO ORDERING MATERIALS

TURTLE CREEK CONTROLLER BOX IS AT THE WELCOME CENTER BUILDING

COUNTY

				CONCIN. CODE		
	SUMMARY OF QUANTITIES			100% STATE		
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	HIGHWAY LIGHTING 0021		
	1.4		Q 0			
67100100	MOBILIZATION	L SUM	1	1		
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	5	5		
70100800	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	L SUM	1	1		
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1	1		
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	1	1		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	92	92		
82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	2	2		
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	360	360		
X1400267	REMOVAL OF LIGHTING LUMINAIRE, NO SALVAGE	EACH	92	92		
X8000001	MAINTAIN EXISTING HIGHWAY LIGHTING	EACH	1	1		
X8210402	LUMINAIRE MOUNTING BRACKET (SPECIAL)	EACH	90	90		

CONSTR. CODE

USER NAME = Nicholas.Vock	DESIGNED -	REVISED _	Т
	DRAWN _	REVISED _	
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	
PLOT DATE = 2/11/2025	DATE -	REVISED _	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

					142		_				
	OUMANDY OF OUANESEES						SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
SUMMARY OF QUANTITIES						VAR	D2 LIGHTING 2025	VARIOUS	9	3	
								CONTRACT	NO. 641	J13	
	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT					



Luminaire Performance Table

Project									
				Section Numb	er	Co	unty		1
04/04/25 64u13 D2 I				D2 Lighting	2025				
Marked Route	Number			h	Municipality				
Various				\	/arious			8	
Roadway Lane Width (s	ee note 4)	Numbe	er and Direc	tion of lanes	Median	Width	Surface Classific	ation Q-Zero Valu	ie
12 ft	100-90 W41 1-2212	4 lane	es, in 1 di	rection only	N/A	A MONORAL AN	R3	0.07	
Structure Mounting Heig 45 ft	tht Arm Le		Set-Back (se 30 ft	ee note 1)	Number of	Luminarie	es		
Luminaire Description	ŸI:				ransverse [Distribution		Lateral Distribution	
roadway, Li	ED, outpu	t desig	nation H		Type III			Medium	
Total Light Los	ss Factor (L	LF)	B-U-G Ra	ting		Shields	16	Dimming Prot	ocol
Refer to No	tes 6 and	7	U=0		1	A/V		0-10V	
Layout Spacing 160 ft Performance Average Illumi ≥ 0.8		Single es 5 an	Uni	formity Ratio.	Еле/Ешн				
Average Lumi	nance, Lave	(cd/m²)		Ratio, Lve/Lu	en I	Uniformity	Ratio, Luny/Lun		ance Ratio, Lv/Lwi
≥ 0.6			≤ 3.5:1	li.		≤ 6:1		≤ 0.3:1	
Light Tressp						-			
Distance to RO N/A	OW (behind		Max. Horizo N/A	ntal Illuminani	ce at ROW,	En	Max. Vertical III	uminance at ROW, I	ev .
Notes 1. Set-B 2. Lighti 3. Perfo the set before 4. Lane 5. Comp 6. Photo 7. Light grade 8. Lumin	ing calculation rmance requiven condition width is the pliance with ometric calculation trespass calculation and vertical and vertical and vertical calculation and vertical and and and and and and and and	Edge of ons shall uiremen ons lister width or perform ulations alculation al calculation and calculation and calculations alculation al calculation al calcu	Pavement II be perform its shall be to d above. If each indivi- ance criteri for roadway is shall be pations perforable is inten	ridual lane, no a shall be held ys shall be per performed with rmed with calculated to define	ot to be conf to one sign formed with a total light culation poin	fused with hificant dig a total lig t loss factors its located	ard and perpendice of photometric per total roadway widt git. ght loss factor of 0. or of 1.0 and with h	7 orizontal calculation	s performed at
	PARTY OF THE PROPERTY OF THE PARTY OF THE PA	ordero so A	wastisting 1990						

Printed 04/04/25 BDE 5630 (Rev. 06/06/24)

USER NAME = Nicholas, Vock	DESIGNED -	REVISED -		VARIOUS ROUTES					F.A.	SECTION	COUNTY	TOTAL SHEET	
	DRAWN -	REVISED -	STATE OF ILLINOIS	LUMINAIRE PERFORMANCE TABLE						VAR	D2 LIGHTING 2025	VAR	9 4
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		LOMINAINE PERIORMANOE TABLE						CONTRAC	T NO. 64U13	
PLOT DATE = 2/10/2025	DATE -	REVISED -	SCALE: SHEET OF SHEETS STA. TO STA.								ILLINOIS FED. A	ID PROJECT	



DESIGNED -

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PLOT SCALE = \$SCALE\$

PLOT DATE = 2/11/2025

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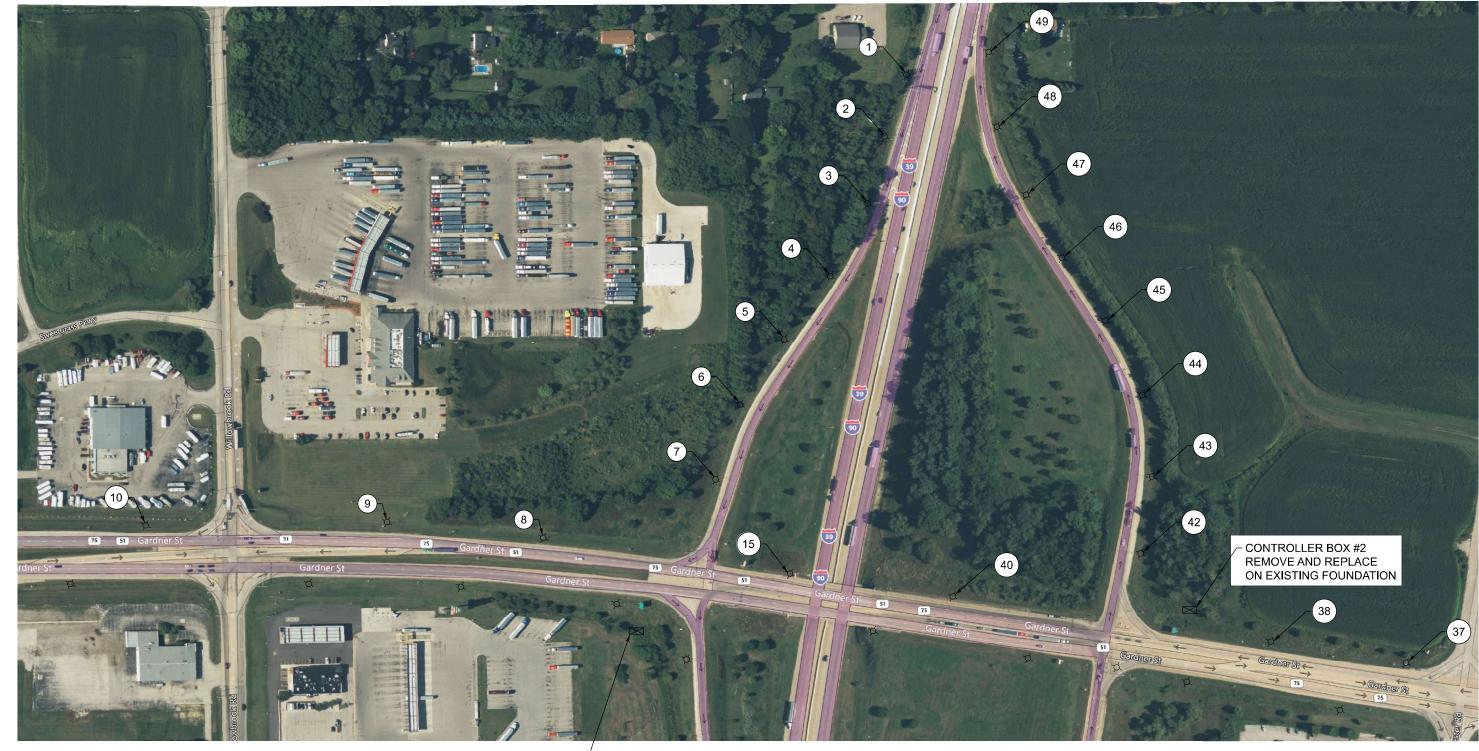
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION LIGHTING AND COUPLING REPLACEMENT PLAN SHEET CONTRACT NO. 64U13 OF SHEETS STA.

I-90 AND IL 75 INTERCHANGE SOUTH

SECTION

VAR D2 LIGHTING 2025





CONTROLLER BOX #1 - REMOVE AND REPLACE ON EXISTING FOUNDATION

USER NAME = Nicholas Vock	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 2/11/2025	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

I-90 AND IL 75 INTERCHANGE NORTH
LIGHTING AND COUPLING REPLACEMENT PLAN SHEET



MODEL: D2_SHT PLAN

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TURTLE CREEK REST AREA
LIGHTING AND COUPLING REPLACEMENT PLAN SHEET

SHEET OF SHEETS STA. TO STA.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

USER NAME = Nicholas, Vock

DESIGNED -

DRAWN -

CHECKED -

DATE

REVISED -

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REVISED -

IL 251 AND IL 67 INTERCHANGE

LIGHTING AND COUPLING REPLACEMENT PLAN SHEET

SHEET OF SHEETS STA.

SECTION

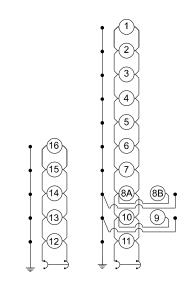
D2 LIGHTING 2025

COUNTY TOTAL SHEETS NO.

VARIOUS 9 8

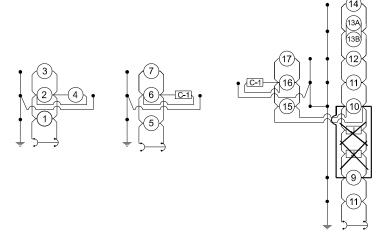
CONTRACT NO. 64U13

ILLINOIS FED. AID PROJECT



I-90 TURTLE CREEK REST AREA

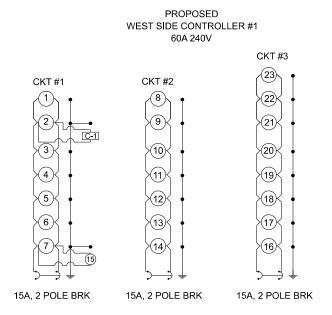
45' TALL, (60A 240V) FOR REFERENCE ONLY

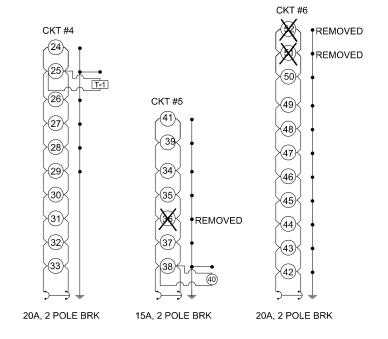


IL 251 @ ROCKTON RD

45' TALL, (60A 240V) FOR REFERENCE ONLY







I-90 @ IL 75 INTERCHANGE

45' TALL, (60A 240V)

USER NAME = Nicholas Vock	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	
PLOT DATE = 2/11/2025	DATE -	REVISED -	
100.000	D/112 -	TREVIOLD -	

CONTROLLED INCTALLATION BIACDAMC										TOTAL SHEETS	SHEET NO.	
CONTROLLER INSTALLATION DIAGRAMS				VAR	R D2 LIGHTING 2025		i	VAR	9	9		
									CONTRACT	NO. 641	J13	
SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT						