04-25-2025 LETTING ITEM 128

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION AR. D8 LTS MODERNIZATION 2025-1 VARIOUS 8 1 ILLINOIS CONTRACT NO. 76T79

D-98-052-24

LOCATION OF SECTION INDICATED THUS: -

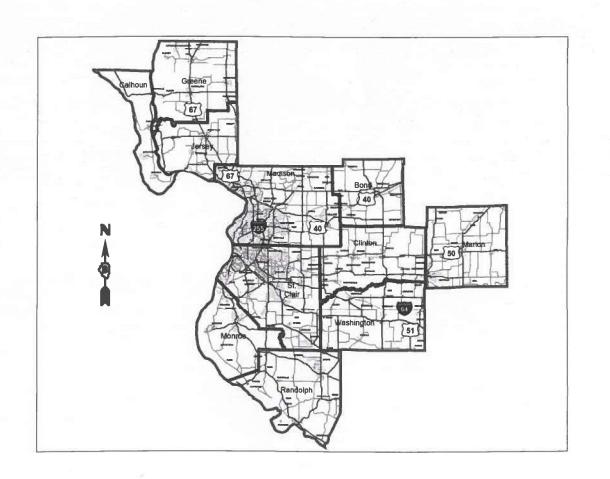
STATE OF ILLINOIS

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES SECTION: D8 LTS MODERNIZATION 2025-1 HIGHWAY LIGHTING, TRAFFIC SIGNAL **MODERNIZATION VARIOUS COUNTIES**

C-98-114-24



FOR INDEX OF SHEETS, SEE SHEET NO. 2



CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

1-800-892-0123

PROJECT ENGINEER: CHERYL KEPLAR PROJECT MANAGER: RICHARD BARBEE

CONTRACT NO. 76T79

INDEX OF SHEETS

COVER SHEET

2. INDEX, HIGHWAY STANDARDS, COMMITMENTS, & GENERAL NOTES

3.-6. SUMMARY OF QUANTITIES

7. LUMINAIRE PERFORMANCE TABLE

CONCRETE FOUNDATION TYPE A PED PUSH-BUTTON POST

COMMITMENTS

NONE

HIGHWAY STANDARDS

000001-08	001006		
701001-02	701400-12	701456-05	873001-02
701006-05	701401-13	701601-09	876001-04
701101-05	701406-13	701606-10	880006-01
701106-02	701421-08	701701-10	886001-01
701201-05	701422-10	701901-10	886006-01
701206-05	701446-11	720001-01	
701301-04	701451-05	821101-03	

GENERAL NOTES

- NO SURVEY WAS PERFORMED FOR THIS PROJECT AND THE PLANS WERE CREATED USING MICROFILM AND FIELD MEASUREMENTS,
- 2. THE RESIDENT ENGINEER SHALL VERIFY THE EXISTENCE OF HIGHWAY LIGHTING, INTELLIGENT TRANSPORTATION SYSTEMS (I.T.S.) UTILITIES, AND/OR ELECTRICAL CABLES ASSOCIATED WITH TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS. IF ANY OF THESE EXIST WITHIN THE PROJECT LIMITS, AND IF THESE ITEMS REQUIRE LOCATING, THE CONTRACTOR SHALL BE DIRECTED TO DO SO ACCORDING TO SECTION 803 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- 3. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- 4. THE LOCATIONS OF THE REPAIR AREAS SHALL BE DETERMINED BY THE ENGINEER/DEPARTMENT.
- NO MATERIAL SHALL BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.
- ANY NECESSARY TRAFFIC CONTROL WILL BE PROVIDED BY THE CONTRACTOR APPROPRIATE STANDARDS ARE LISTED.
- A FLAGGER SHALL BE REQUIRED AT ALL TIMES WHEN WORKERS OR EQUIPMENT ARE ENCROACHING ON THE LANE OF TRAFFIC.
- 45 AND 55 MPH SIGNS ARE INCLUDED IN ALL INTERSTATE LANE CLOSURES. IF THE LANE CLOSURE DURATION IS LESS THAN 4 HOURS, THE 45 AND 55 MPH SIGNS ARE NOT REQUIRED.
- 9. ANY WORK ORDER MAY BE CANCELED AT THE ENGINEER'S/DEPARTMENT'S DISCRETION.
- 10. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.

	USER NAME = daniel.hopkins	DESIGNED -	REVISED -
j		DRAWN -	REVISED -
		CHECKED -	REVISED -
-	PLOT DATE = 1/22/2025	DATE -	REVISED -

SCALE:

			S, HIGHW 'S, & GEN		TANDARDS, NOTES
SHEET 1	OF	1	SHEETS	STA.	TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.		
VAR.	D8 LTS MODERNIZATION 2025-1	VARIOUS	8	2		
CONTRACT NO. 76T79						
LILLINOIS LEED AID PROJECT						

REV - MS

				CONSTR. CODE 100% STATE					CONSTR. CODI
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	TRAFFIC SIGNALS 0021 URBAN	CODE NO.	ITEM	UNIT	TOTAL	TRAFFIC SIGNAL 0021 URBAN
			4.000	51.27.11					
80300100	LOCATING UNDERGROUND CABLE	FOOT	1000	1000	X0327495	JOURNEYMAN ELECTRICIAN	HOUR	1000	1000
82110005	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E	EACH	5	5	X0327496	APPRENTICE ELECTRICIAN	HOUR	100	100
82110007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	20	20	X0327497	PICK-UP TRUCK	HOUR	700	700
82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	40	40	X0327500	ARROWBOARD (TRAILER MOUNTED)	HOUR	20	20
82110032	LUMINAIRE, LED, SIGN LIGHTING, OUTPUT DESIGNATION E	EACH	5	5	X0327501	ATTENUATOR, CRASH (TRUCK MOUNTED)	HOUR	500	500
02.110002				3					
87000240	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 2 AND NO. 4	FOOT	500	500	X0327734	TRUCK CRANE	HOUR	500	500
87000405	ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 2 AND NO. 4	FOOT	1000	1000	X1400096	LED LAMP MODULE REPLACEMENT	EACH	300	300
87000775	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6	FOOT	500	500	X1400188	MAIN DRIVE CONTROLLER	EACH	1	1
	NO. 0								
87000885	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8	FOOT	500	500	X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	29	29
87005275	ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 4 AND	FOOT	1000	1000	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	100	100
87003273	NO. 6		1000	1000	70700200	ACCESSIBLE FEDESTIVAN SIGNALS	EAGI	100	100
87005385	ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8	FOOT	1000	1000	X8760201	PEDESTRIAN PUSH-BUTTON POST	EACH	50	50
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	60	60	X8860400	DETECTOR LOOP (SPECIAL)	FOOT	5000	5000
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	30	30	XP000015	DIGGER DERRICK	HOUR	100	100
88800100	PEDESTRIAN PUSH-BUTTON	EACH	100	100	XP000028	LABOR	HOUR	100	100
			1						

MODEL: SOCET [Sneet]
FILE NAME: c:\nw work\nwidot\danie

 USER NAME
 = daniel.hopkins
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 REVISED

 PLOT DATE
 = 1/22/2025
 DATE
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

				CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN
XP000029	BUCKET TRUCK/VAN FOR TRAFFIC SIGNALS	HOUR	700	700
XP000030	BUCKET TRUCK FOR HIGHWAY LIGHTING	HOUR	700	700
XP000031	POLE TRAILER	HOUR	100	100
	TOLL TWILLIN	HOOK	100	100
XP000032	FLATBED TRAILER	HOUR	100	100
XP000101	ATQ 5A FUSE 200	EACH	200	200
XP000102	FNQ 5A FUSE	EACH	200	200
XP000104	FNM 10A FUSE	EACH	5	5
XP000105	FRNR 60A FUSE	EACH	5	5
XP000106	BUCHANAN FUSEHOLDER KIT	EACH	50	50
XP000115	150W HPS LAMP	EACH	5	5
XP000116	250W HPS LAMP	EACH	100	100
XP000118	400W HPS LAMP	EACH	350	350
XP000119	150W 240/480V BALLAST KIT	EACH	5	5
XP000120	250W 240/480V BALLAST KIT	EACH	100	100

				CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN
XP000122	400W 240/480V BALLAST KIT	EACH	150	150
XP000123	SD-100 BU STARTER	EACH	5	5
XP000124	SURGE ARRESTOR (EDCO MODEL SHA-XXX3) X=20/240/480 VOLTS	EACH	20	20
X 000124	SONOL ANNESTON (EDGG WODEL STIA-9000) A-20/240/400 VOLTS	LAOIT	20	20
XP000125	PHOTO CONTROL, 105V-285V (ALR-MODEL SSTPV-ON)	EACH	20	20
XP000126	#12 XLPE 1/C COPPER WIRE	FEET	500	500
VD000407	We M D TYPE LISE 4/2 CORPER WIDE	FEET	500	500
XP000127	#8 XLP-TYPE USE 1/C COPPER WIRE	FEET	500	500
XP000128	#6 XLP-TYPE USE 1/C COPPER WIRE	FEET	10000	10000
XP000129	60A LIGHTING CONTACTOR	EACH	5	5
XP000130	100A LIGHTING CONTACTOR	EACH	5	5
74 000100	TOUT ELETTING SCHAINGTON	2,1011		3
XP000132	50A CIRCUIT BREAKER, 1P	EACH	5	5
XP000135	50A CIRCUIT BREAKER, 2P	EACH	5	5
XP000137	150A CIRCUIT BREAKER, 2P	EACH	5	5
XP000138	200A CIRCUIT BREAKER, 2P	EACH	5	5
VD000400	PDEAKAWAY COLIDLING 4"	FACU.		
XP000139	BREAKAWAY COUPLING, 1"	EACH	5	5

ME: c:\pw_work\pwidot\daniel.hopkins@illinois.gov\d1042618\D876T79-sht

 USER NAME
 = daniel.hopkins
 DESIGNED
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 PLOT DATE
 = 1/22/2025
 DATE
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

				CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN
XP000140	1/4" X 1/4" STAINLESS STEEL MESH	SQ FT	10	10
XP000141	ALUMINUM SIGNAL BASE, SQUARE (PELCO)	EACH	100	100
XP000142	ALUMINUM SIGNAL POST, 13', SCH 80 (PELCO)	EACH	5	5
XP000145	MAST ARM BRACKET, 3 SECTION (PELCO AB 11 6)	EACH	5	5
XP000146	MAST ARM BRACKET, 4 SECTION (PELCO AB 11 6)	EACH	5	5
XP000147	MAST ARM BRACKET, 5 SECTION (PELCO AB 11 6)	EACH	5	5
XP000161	LAMP, QUARTZ HALOGEN, 43W @, 10.8V (GE OR EQUIVALENT)	EACH	50	50
XP000164	SIGNAL HEAD, POLYCARBONATE, LED, 1-SECTION, 12", R OR Y (ECONOLITE OR MCCAIN)	EACH	5	5
XP000165	SIGNAL HEAD, POLYCARBONATE, LED, 3-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	120	120
	SIGNAL HEAD, POLYCARBONATE, LED, 4-SECTION, 12", (ECONOLITE OR			
XP000166	MCCAIN)	EACH	50	50
XP000167	SIGNAL HEAD, POLYCARBONATE, LED, 5-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	50	50
XP000168	PEDESTRIAN HEAD, POLYCARBONATE, LED, 2-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	40	40
₽ 000170	ELECTRIC CABLE, 2/C, #14, TW, SH	FEET	3000	3000
XP000171	ELECTRIC CABLE, 3 PR, #18, TW, SH	FEET	10	10

				CONSTR. CODE
				100% STATE
CODE			TOTAL	TRAFFIC SIGNALS 0021
NO.	ITEM	UNIT	QUANTITY	URBAN
XP000172	ELECTRIC CABLE, 5 PR, #18, TW, SH	FEET	10	10
XP000173	ELECTRIC CABLE, 6 PR, #18, TW, SH	FEET	10	10
XP000174	ELECTRIC CABLE, 2/C, #14	FEET	3000	3000
XP000175	ELECTRIC CABLE, 3/C, #14	FEET	3000	3000
XP000176	ELECTRIC CABLE, 5/C, #14	FEET	3000	3000
	-			
XP000177	ELECTRIC CABLE, 7/C, #14	FEET	3000	3000
				500 400 000
XP000179	GROUND ROD, 8', COPPER CLAD	EACH	5	5
XP000180	SPLICE KIT (3-M SCOTCHCAST #72-N1)	EACH	10	10
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		271011	10	10
XP000181	LOOP SEALANT (BONDO P606)	GALLON	30	30
XF000101	LOOF SEALANT (BONDO FO00)	GALLON	30	30
VD000400		FAOL	_	
XP000186	J BOX, NEMA, 4X, SS, 6"X8"X4", W/ ALUMINUM BACKPLATE & LOCK KIT	EACH	5	5
XP000187	HANDHOLE, FRAME & COVER (NEENAH R-6660- JP)	EACH	5	5
XP000188	HANDHOLE, COVER ONLY (NEENAH R-6660-JP)	EACH	20	20
XP000191	SIGN, ILLUMINATED, FIBEROPTIC-TYPE, 24"X30" "NO LEFT/RIGHT TURN" OR "LT TURN YIELD"	EACH	5	5
XP000192	SIGN, ILLUMINATED, FIBEROPTIC-TYPE, 24"X30" SYMBOLIC "NO LEFT/RIGHT TURN"	EACH	5	5

MODEL: SOQ-3 [Sheet]

 USER NAME
 = daniel.hopkins
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 PLOT DATE
 = 10/16/2024
 DATE
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE:

				CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN
XP000193	MONITOR, NEMA CONFLICT, 12 CHANNEL (EDI SSM-12E)	EACH	5	5
XP000194	RELAY, FLASH TRANSFER, (MIDTEX 136-62T3A1)	EACH	5	5
VD000405	DETECTOR, NEMA DIGITAL, 1-CH, SHELF MOUNT (DETECTOR SYSTEMS OR	E40U	_	_
XP000195	RENO)	EACH	5	5
XP000196	DETECTOR, NEMA DIGITAL, 2-CH, RACK MOUNT (DETECTOR SYSTEMS OR RENO)	EACH	20	20
XP000197	DETECTOR, POWER SUPPLY, RACK MOUNT (DETECTOR SYSTEMS OR RENO)	EACH	5	5
VD000400	CABINET, SIGNAL CONTROLLER, ALUM., TYPE IV, W/MONITOR & ALL PLUG-		_	_
XP000198	INS, COMPLETE (ECONOLITE)	EACH	5	5
XP000199	FLASHER, NEMA	EACH	20	20
XP000200	LOAD SWITCH, NEMA	EACH	40	40
XP000203	COLD GALVANIZING, SPRAY CAN	EACH	5	5
XP000205	ALUMINUM LIGHT POLE MAST ARM, 15', TRUSS STYLE	EACH	40	40
74 000200	ALCONING IN LIGHT FOLL WATER WING THE WATER WATE	27(011	40	40
XP000207	ALUMINUM LIGHT POLE, 45', COMPLETE, RD, W/ TENON TOP, W/T BASE, 17" B.C., DK. BRONZE POWDER COAT	EACH	5	5
XP000209	UPPER AND LOWER ARM ASSEMBLY, UNPAINTED ALUMINUM	EACH	120	120
XP000210	FLASHER CONTROLLER CABINET ASSEMBLY, NEMA (PELCO SE-1005 OR EQUIVALENT)	EACH	5	5
XP000300	TRAFFIC SIGNAL RELAMPING	EACH	5	5

				CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN
XP000301	TRAFFIC SIGNAL LAMP REPLACEMENT	EACH	5	5
XP000302	FLASHING BEACON INSPECTION	EACH	5	5
XP000303	TOWER LIGHTING INSPECTION	EACH	5	5
XP000304	REPLACE SERVICE INSTALLATION, COMPLETE	EACH	5	5
XP000307	REPAIR TRAFFIC SIGNAL KNOCKDOWN	EACH	120	120
XP000308	REPAIR FLASHING BEACON KNOCKDOWN	EACH	40	40
XP000309	REPAIR HIGHWAY LIGHT POLE KNOCKDOWN	EACH	100	100
XP000310	REPLACE HIGHWAY LIGHT POLE BREAKAWAY DEVICE, COUPLINGS	EACH	5	5
XP000311	REPLACE HIGHWAY LIGHT POLE BREAKAWAY DEVICE, TRANSFORMER BASE	EACH	40	40
XP000312	REPLACE TRAFFIC SIGNAL POST BASE ASSEMBLY	EACH	40	40

USER NAME = daniel.hopkins	DESIGNED -	REVISED -
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PLOT DATE = 1/22/2025	DATE -	REVISED -

SCALE:

	SUMMA	RY	OF QUA	NTITIES		F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						VAR.	D8 LTS MODERNIZATION 2025-	1 VARIOUS	8	6
								CONTRACT	NO. 76	T79
SHEET 4	OF	4	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

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(A)	Illinois Department of Transportation
Project	

Luminaire Performance Table

_								
roject								
ate	Contract Num	er	Section Num	nber	Ci	ounty		
3/03/25	N/A		N/A					
arked Ro	ute Number			Municipalit				
arious				Various	,			
oadway				100000000			- 1	
	(see note 4) Num	her and Di	irection of lanes	e Madi	ian Width	Surface Classi	fication	Q-Zero Value
2			Direction On			R3	iicadori	0.07
tructure				9 1][10.00
	leight Arm Length	Set Back	(see note 1)	Number	of Luminar	ne.		
6 ft	O ff	20 ft	(see note 1)	N/A	OI LUITIIIII			
		20 π		IV/A				
uminaire				_				
escription					e Distributio	n		al Distribution
eplacen	ment For 150W U	nderpas	s	Type III			Medi	um
otal Light	Loss Factor (LLF)	B-U-G	Rating		Shields			Dimming Protocol
efer to I	Notes 6 and 7	U=0			N/A			0-10V
ayout								
pacing	Con	iguration						
0 ft	Sin	ale Sideo	1					
rforma	nce (see notes 5	and 6)						
	uminance, EAVE (fc)		Uniformity Ratio	n Faus/Fran				
/A	arring to the tree		N/A	ry and and				
	ıminance, L _{AVE} (cd/m		nity Ratio, Leve/L		7	Ratio, Luax/Lun		Veiling Luminance Ratio, Lv/Lvv
.6 to 0.9)	less th	nan or equal	to 3.5:1	less tha	n or equal to 6	.0:1	less than or equal to 0.3:1
ght Tres	sspass (see notes	5 and 7)	í.					
stance to	ROW (behind pole)	Max. Hor	izontal Illumina	nce at ROV	W, EH	Max, Vertical	Illumina	nce at ROW, Ev
/A		N/A				N/A		
otes								
	et-Back is from Edge							
	ghting calculations st							
	e diven conditions lis			acceptable	e standards	or photometric p	enorma	nce for the luminaire, based on
	ne width is the width			not to be co	onfused with	total roadway w	idth	
	ompliance with perfo							
	notometric calculation						0.7	
7. Lig	ght trespass calculat	ons shall b	e performed wi	ith a total lig	ght loss fac	or of 1.0 and with	horizor	ntal calculations performed at
	ade and vertical calc							
				e the lumin	aire and do	es not necessarily	y match	any specific roadway geometry
mo	ounting height, setba	ck, or arm	length.					

P)	Illinois Department of Transportation
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Luminaire Performance Table

Project								
Date	Contract Number	er	Section Nun	nber	Co	ounty		
03/03/25	N/A		N/A					
Marked Route N	Number			Municipality	v			
√arious				Various				
Roadway								
Lane Width (see	e note 4) Numb	er and Dire	ction of lanes	s Media	an Width	Surface Classit	fication Q-Zero Value	
12	3			N/A		R3	0.07	
Structure								
Mounting Heigh	t Arm Length	Set-Back (s	ee note 1)	Number	of Luminari	es		
45 ft	15 ft	15 ft		N/A				
Luminaire								
Description				Transverse	e Distributio	n	Lateral Distribution	
Replacement	t for 250W Ho	rizontal M	ount	Type III			Medium	
Total Light Loss	Factor (LLF)	B-U-G Ra	ting		Shields		Dimming Protocol	
Refer to Note	es 6 and 7	U=0	77		N/A		0-10V	
Layout								
Spacing	Config	guration						
160 ft	Sing	le Sided						
Performance	(see notes 5 ar	nd 6)						
Average Illumina		- 51	iformity Ratio	o, Ewe/Emn				
0.9 to 1.4		les	s than or	equal to 3	3.0:1			
Average Lumina	ance, Lave (cd/m²)	Uniformity	Ratio, Lave/	Lun	Uniformity	Ratio, Lux/Lun	Veiling Luminance Ratio.	I w/I ave
0.6 to 0.9		1	n or equal		1	n or equal to 6		
Light Tressna	iss (see notes			10 01011	1000 1110			-1-11
	W (behind pole)		ntal Illumina	ince at ROV	V. EH	Max. Vertical	Illuminance at ROW, Ev	
N/A		N/A				N/A		
Notes								
	ck is from Edge o							
							cular to the roadway erformance for the luminaire, basi	
	en conditions liste		ine minimun	тассертавн	standards	or priotorneuro pi	eriormance for the furninalite, basi	eu on
			vidual lane,	not to be co	onfused with	total roadway wi	dth.	
	ance with perform							
					ith a total lic	aht loss factor of (17	
Photon	netric calculations							V.1741
 Photon Light tr 	espass calculatio	ns shall be	performed w	ith a total lig	ght loss fact		horizontal calculations performed	d at

(P)	Illinois Department of Transportation
(A)	of Transportation

Luminaire Performance Table

Project										
Date	Contract	Numbe	r	Section Nur	nber		County			
03/03/25 N/A N/A										
Marked Route	Number				Municipa	ality				
Various					Variou	S				
Roadway										
Lane Width (s	ee note 4)	Numb	er and D	irection of lane	s Me	edian Width	Surfa	ce Classit	fication	Q-Zero Value
12		3			N	/A	R3			0.07
Structure										
Mounting Heig	ht Arm Ler	ngth S	Set-Back	(see note 1)	Numb	er of Lumina	aries			
45 ft	1 ft		30 ft		N/A					
Luminaire										
Description					Transve	erse Distribut	tion		Latera	al Distribution
Replaceme	nt for 250\	N Mul	ti-Mour	nt	Type I	II			Medi	um
Total Light Los	ss Factor (LI	.F)	B-U-G	Rating		Shields				Dimming Protocol
Refer to No	tes 6 and	7	U=0		N/A	N/A			0-10V	
Layout										
Spacing		Config	uration							
145 ft		Singl	e Side	d						
Performance	see note	s 5 ar	nd 6)							
Average Illumi	nance, EAVE	(fc)		Uniformity Rati	o, Ene/E	VIN				
0.9 to 1.4				less than or	equal to	3.0:1				
Average Lumi	nance, Lwe (cd/m²)	Uniform	nity Ratio, Lave/	Lwn	Uniform	it/ Ratio.	Lww/Lmn		Veiling Luminance Ratio, Lv/Lvv
0.6 to 0.9			less t	han or equal	to 3.5:	1 less th	an or ec	ual to 6	.0:1	less than or equal to 0.3:1
Light Tressp	азэ (эее г	notes	5 and 7)						
				rizontal Illumina	ince at R	OW, EH	Max	. Vertical	Illumina	nce at ROW, Ev
N/A			N/A				N/A			
 Lighti Perfo 	ng calculation	ns sha iiremer	Il be per		luminaire n accepta		ds of phot	ometric p	erforma	the roadway. nce for the luminaire, based on

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Luminaire Performance Table

Project								
Date	Contract Num	ber	Section Nun	nber	C	ounty	_	
03/03/25	N/A		N/A					
Marked Route N	umber			Municipa	lity			
Various				Various	3			
Roadway								
Lane Width (see	note 4) Num	ber and Dir	ection of lanes	s Me	dian Width	Surface Class	sification	Q-Zero Value
12	4			N/.	A	R3		0.07
Structure								
Mounting Height	Arm Length	Set-Back (see note 1)	Numbe	er of Luminar	ies		
45 ft	15 ft	15 ft		N/A				
Luminaire								
Description				Transver	rse Distributio	on	1	al Distribution
Replacement	for 400W H	orizontal M	Mount	Type II	I		Medi	ium
Total Light Loss	Factor (LLF)	B-U-G R	ating		Shields			Dimming Protocol
Refer to Note	s 6 and 7	U=0			N/A			0-10V
Layout								
Spacing	Con	figuration						
240 ft	Sin	gle Sided						
Performance (see notes 5	and 6)						
Average Illumina	ince, EAVE (fc)	U	Iniformity Ratio	D, EAVE/EM	N			
0.9 to 1.4		le	ess than or	equal to	3.0:1			
Average Lumina	nce, Lave (cd/mi) Uniformi	ty Ratio, Lave/I	MIN	Uniformity	y Ratio, Luax/Luin		Veiling Luminance Ratio, Lv/Lsv
0.6 to 0.9		less th	an or equal	to 3.5	less tha	n or equal to	6.0:1	less than or equal to 0.3:1
Light Tresspa	ss (see notes	5 and 7)						
Distance to ROV	V (behind pole)		contal Illumina	nce at RO	DW, EH		I Illumina	ance at ROW, Ev
N/A		N/A				N/A		
Lighting Perform the give Lane wi Complia Photom Light tre grade a Lumina	ance requirem en conditions lis dth is the width ance with perfo etric calculation espass calculat nd vertical calculat	nall be performents shall be ted above. of each incommence criteries for roadwittens shall be ulations per table is into-	rmed with all I to the minimum dividual lane, as shall be he performed with ca ended to defin	uminaires n acceptai not to be eld to one erformed ith a total alculation	confused with significant di with a total li light loss fac points locate	h total roadway vigit. ght loss factor of tor of 1.0 and with three feet about	performa width. f 0.7 th horizon ve grade.	nce for the luminaire, based on

(42)	Illinois Departmen of Transportation
(18)	of Transportation
	o

Project Date	Contrac	t Numbe		Section Nu	ımher	C	ounty			
03/03/25	N/A	. I valido		N/A	inibei		ounty			
Marked Route	Number				Municipa	lity				
Various					Various	3				
Roadway										
Lane Width (se	ee note 4)	Numbe	er and D	irection of lan	es Me	dian Width	Surface (Classification	Q-Zero Value	
12		4			N/.	A	R3		0.07	
Structure										
Mounting Heig	ht Arm Le	ngth 3	et-Back	(see note 1)	Numb	er of Luminar	ies	_		
45 ft	1 ft	3	0 ft		N/A					
Luminaire Description					Transver	se Distributio	on	Later	al Distribution	
Replacemen	nt for 400	W Mult	i-Mour	nt	Type II	I		Med	ium	
Total Light Los	ss Factor (L	LF)	B-U-G	Rating		Shields			Dimming Protocol	
Refer to No	tes 6 and	7	U=0			N/A			0-10V	
Layout										
Spacing		Config	uration							
155 ft		Single	Sided	1						
Performance	(see not	es 5 an	d 6)							
Average Illumi	nance, Ex	(fc)		Uniformity Ra	tio, Eave/En	IN .				
0.9 to 1.4				less than o	equal to	3.0:1				
Average Lumii	nance, L	(cd/m²)	Uniform	nity Ratio, Lau	Лми	Uniformit	y Ratio, Luar	Л ми	Veiling Luminance	Ratio, Luft au
0.6 to 0.9			less th	nan or equa	I to 3.5:1	less tha	n or equa	I to 6.0:1	less than or equ	ial to 0.3:1
Light Tressp	ass (see	notes 5	and 7							
Distance to RO	OW (behind			izontal Illumin	ance at RO	DW, EH		ertical Illumin	ance at ROW, Ev	_
N/A		1	V/A				N/A			
2. Lighti 3. Perfo u ≈ gi 4. Lane 5. Comp	ng calculat rmance rec ven conditi width is the bliance with	ons shall uiremen ons lister width of perform	I be perf ts shall I I above. f each in ance cri		I luminaires m acceptal , not to be held to one	ble standards confused wit significant di	s of photome h total roadv igit.	etric performativay width.	o the roadway.	e, based on

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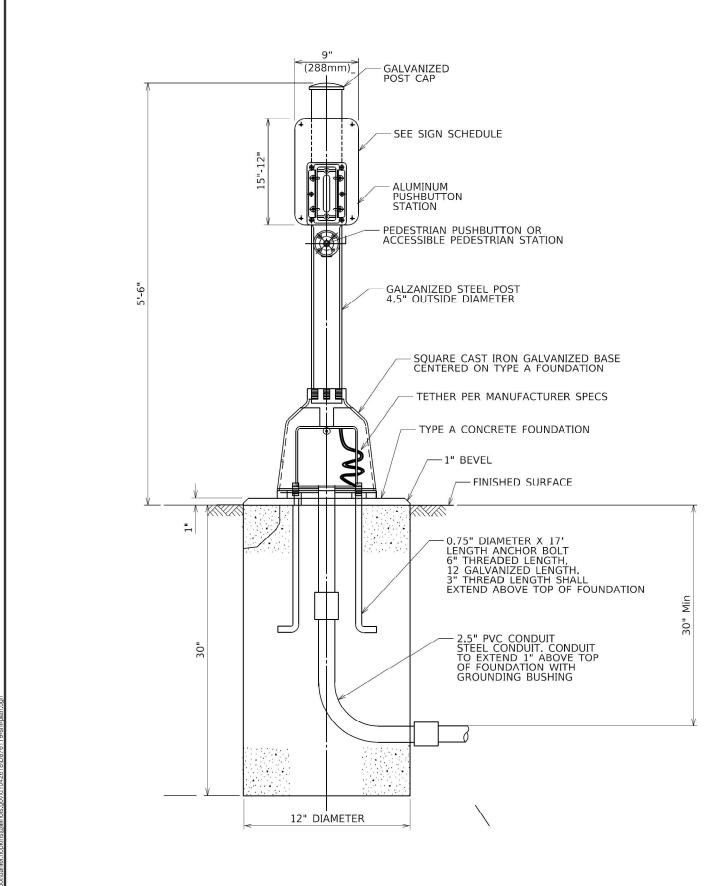
Printed 03/03/25

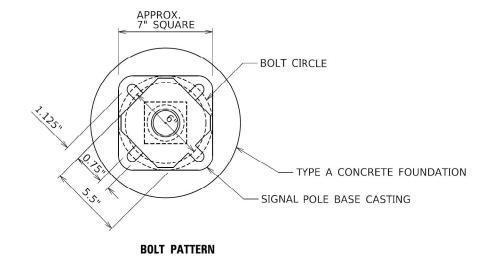
USER NAME = daniel.hopkins DESIGNED -REVISED -DRAWN -REVISED -CHECKED -REVISED -PLOT DATE = 3/12/2025 REVISED -DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

LUMINAIRE PERFORMANCE TABLE CONTRACT NO. 76T79 SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

BDE 5630 (Rev. 06/06/24)





PEDESTRIAN PUSH-BUTTON POST

SER NAME = daniel.hopkins DESIGNED -REVISED . DRAWN REVISED CHECKED -REVISED LOT DATE = 10/16/2024 DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** TRAFFIC SIGNAL DETAILS CONCRETE FOUNDATION, TYPE A PEDESTRIAN PUSH-BUTTON POST

SECTION COUNTY VAR. D8 LTS MODERNIZATION 2025-1 VARIOUS 8 8 CONTRACT NO. 76T79