06-13-2025 LETTING ITEM 123

FOR INDEX OF SHEETS, SEE SHEET NO. 2

0

0

0

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** 

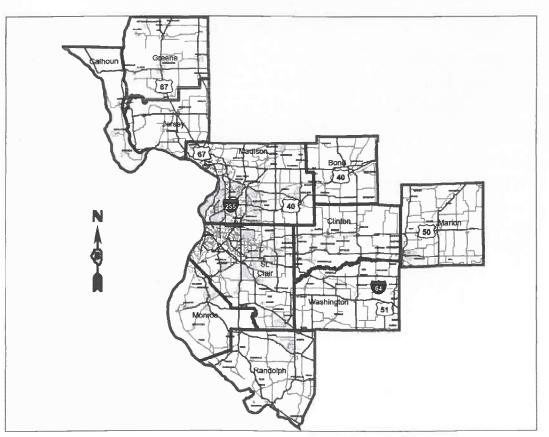
VARIOUS 8 1 DIST 8 LTS 2026-1 CONTRACT NO. 76R28

D-98-105-24

# **PROPOSED**

**SECTION: DIST 8 LTS 2026-1 HIGHWAY LIGHTING, TRAFFIC SIGNAL REPAIR & MAINTENANCE VARIOUS COUNTIES** 

C-98-193-24



**HIGHWAY PLANS VARIOUS ROUTES** 

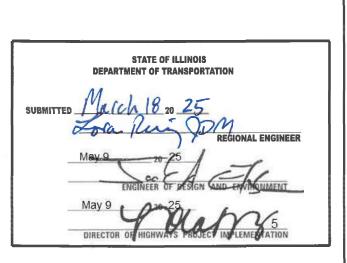
LOCATION OF SECTION INDICATED THUS: -

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: CHERYL KEPLAR PROJECT MANAGER: RICHARD BARBEE** 

CONTRACT NO. 76R28



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

### INDEX OF SHEETS

- COVER SHEET
   INDEX SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS
   SUMMARY OF QUANTITIES
   LUMINAIRE PERFORMANCE TABLE
   CONCRETE FOUNDATION TYPE A PED PUSH-BUTTON POST

### HIGHWAY STANDARDS

701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 M) AWAY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701206-05	LANE CLOSURE, 2L, 2W, NIGHT ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W SHORT TIME OPERATIONS
701400-12	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-13	LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701446-11	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701451-05	RAMP CLOSURE FREEWAY/EXPRESSWAY
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-10	TRAFFIC CONTROL DEVICES
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT

## **GENERAL NOTES**

- 1. THE LOCATION OF THE REPAIR AREAS SHALL BE DETERMINED BY THE ENGINEER / DEPARTMENT.
- 2. NO MATERIAL SHALL BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.
- 3. 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 CLOSURE TRAFFIC CONTROL AND PROTECTION. IF THE LANE CLOSURE DURATION IS LESS THAN 4 HOURS, THE 45 AND 55 MPH SIGNS ARE NOT REQUIRED.
- 6. ANY WORK ORDER MAY BE CANCELED AT THE ENGINEER'S / DEPARTMENT'S DISCRETION.
- 7. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.

COMMITMENTS

SCALE:

USER NAME = d anel.ho pki ns DESIGNED -REVISED -DRAWN -REVISED -CHECKED -REVISED -PLOT DATE = 3/13/2025 REVISED \_ DATE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS SHEET 1 OF 1 SHEETS STA.

COUNTY TOTAL SHEET NO.

VARIOUS 8 2 SECTION DIST 8 LTS 202 61 CONTRACT NO. 76R28

VAR.

				CONSTR. CODE
				100% STATE
. THE ASSESSMENT OF				TRAFFIC SIGNALS
CODE	10.00		TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN
X0327495	JOURNEYMAN ELECTRICIAN	HOUR	1000	1000
X0327496	APPRENTICE ELECTRICIAN	HOUR	100	100
X0327497	PICK-UP TRUCK	HOUR	700	700
X0327500	ARROWBOARD (TRAILER MOUNTED)	HOUR	20	20
X0327501	ATTENUATOR, CRASH (TRUCK MOUNTED)	HOUR	500	500
X0327734	TRUCK CRANE	HOUR	500	500
X1400096	LED LAMP MODULE REPLACEMENT	EACH	300	300
X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	29	29
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	100	100
X8760201	PEDESTRIAN PUSH-BUTTON POST	EACH	50	50
			1000	200000
X8860400	DETECTOR LOOP (SPECIAL)	FOOT	5000	5000
XP000015	DIGGER DERRICK	HOUR	100	100
XP000028	LABOR	HOUR	100	100
XP000029	BUCKET TRUCK/VAN FOR TRAFFIC SIGNALS	HOUR	700	700

SHEET 1

USER NAME = daniel.hopkins	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 11/21/2024	DATE -	REVISED -

STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORT	ATION

SUMMARY OF QUANTITIES		F.A.P RTE. SECTION				COUNTY	TOTAL SHEETS	SHEET NO.				
						VAR.	DIST 8 LTS 2	2026-1		VARIOUS	8	3
										CONTRAC	T NO. 76	₹28
1	OF 4	SHEETS	STA.	TO STA.	- 1		lu i	INOIS	FED AIR	PROJECT		

				CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN
XP000030	BUCKET TRUCK FOR HIGHWAY LIGHTING	HOUR	700	700
XP000031	POLE TRAILER	HOUR	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
XP000122	400W 240/480V BALLAST KIT	EACH	150	150

				CONSTR. CODE
				100% STATE
CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN
XP000123	SD-100 BU STARTER	EACH	5	5
XP000124	SURGE ARRESTOR (EDCO MODEL SHA-XXX3) X=20/240/480 VOLTS	EACH	20	20
XP000125	PHOTO CONTROL, 105V-285V (ALR-MODEL SSTPV-ON)	EACH	20	20
XP000126	#12 XLPE 1/C COPPER WIRE	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 LIGITING CONTACTOR	EACH	5	5
XP000130	100A LIGHTING CONTACTOR	EACH	5	5
XP000132	50A CIRCUIT BREAKER, 1P	EACH	5	5
XP000135	50A CIRCUIT BREAKER, 2P	EACH	5	5
XP000137	150A CIRCUIT BREAKER, 2P	FACH	5	5
XP000138	200A CIRCUIT BREAKER, 2P	EACH	5	5
XP000139	BREAKAWAY COUPLING, 1"	EACH	5	5
			17.0	
XP000140	1/4" X 1/4" STAINLESS STEEL MESH	SQ FT	10	10

LE NAME: c:\pw\_work\pwidot\daniel.hopkins@illinois.gov\d1040324\D876R28-sh

 USER NAME
 = daniel.hopkins
 DESIGNED
 REVISED

 DRAWN
 REVISED

 CHECKED
 REVISED

 PLOT DATE
 = 11/21/2024
 DATE
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE:

				CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN
XP000141	ALUMINUM SIGNAL BASE, SQUARE (PELCO)	EACH	100	100
XP000142	ALUMINUM SIGNAL POST, 13', SCH 80 (PELCO )	EACH	5	5
VF000445	MACT ADM DDAOKET A OFOTION/DELOG AD 44 O	FACIL	-	-
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
XP000166	SIGNAL HEAD, POLYCARBONATE, LED, 4-SECTION, 12", (ECONOLITE OR 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
XP000170	ELECTRIC CABLE, 2/C, #14, TW, SH	FEET	3000	3000
XP000171	ELECTRIC CABLE, 3 PR, #18, TW, SH	FEET	10	10
XP000172	ELECTRIC CABLE, 5 PR, #18, TW, SH	FEET	10	10
	•			

				CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN
XP000173	ELECTRIC CABLE, 6 PR, #18, TW, SH	FEET	10	10
XP000174	ELECTRIC CABLE, 2/C, #14	FEET	3000	3000
XF000174	ELECTRIC CABLE, 210, #14	FEET	3000	3000
XP000175	ELECTRIC CABLE, 3/C, #14	FEET	3000	3000
XP000176	ELECTRIC CABLE, 5/C, #14	FEET	3000	3000
		71117 20	G05400 349 84.	or o
XP000177	ELECTRIC CABLE, 7/C, #14	FEET	3000	3000
XP000179	GROUND ROD, 8', COPPER CLAD	EACH	5	5
X 000173	GROUND ROD, U, GOLL EN GEAD	LAGIT		
XP000180	SPLICE KIT (3-M SCOTCHCAST #72-N1)	EACH	10	10
XP000181	LOOP SEALANT (BONDO P606)	GALLON	30	30
No. 50 (1) Telephotosia Magdala SS				
XP000186	J BOX, NEMA, 4X, SS, 6"X8"X4", W/ ALUMINUM BACKPLATE & LOCK KIT	EACH	5	5
XP000187	HANDHOLE EDAME & COVED (NEENAL D 8680 ID)	EACH	5	5
X-000107	HANDHOLE, FRAME & COVER (NEENAH R-6660- JP)	LACIT		3
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	SICN, ILLUMINATED, FIBEROPTIC-TYPE, 24"X30" SYMBOLIC "NO LEFT/RIGHT TURN"	EACH	5	5
XP000193	MONITOR, NEMA CONFLICT, 12 CHANNEL (EDI SSM-12E)	EACH	5	5
2 333 100	The state of the s	2,1011		, ,

MODEL: 76R28 SOQ-3 [Sheet]
Ell F NAMF: c:\nw workhwidphlaniel honkins@illingis.gov/o

USER NAME = daniel.hopkins	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 11/21/2024	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE:

SUMMARY OF QUANTITIES						F.A.P SECTION		COUNTY	TOTAL SHEETS	SHEET NO.			
·				VAR.	DIST 8 LTS 2026-1		VARIOUS	8	5				
									CONTRAC	T NO. 76	₹28		
	SHEET 3	OF 4	SHEETS	STA.		TO STA.	ILLINOIS FED AID F				D PROJECT		

				CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN
XP000194	RELAY, FLASH TRANSFER, (MIDTEX 136-62T3A1)	EACH	5	5
XP000195	DETECTOR, NEMA DIGITAL, 1-CH, SHELF MOUNT (DETECTOR SYSTEMS OR RENO)	EACH	5	5
XP000196	DETECTOR, NEMA DIGITAL, 2-CH, RACK MOUNT (DETECTOR SYSTEMS OR	EACH	20	20
A-000190	RENO)	LACH	20	20
XP000197	DETECTOR, POWER SUPPLY, RACK MOUNT (DETECTOR SYSTEMS OR RENO)	EACH	5	5
XP000198	CABINET, SIGNAL CONTROLLER, ALUM., TYPE IV, W/MONITOR & ALL PLUG-INS, COMPLETE (ECONOLITE)	EACH	5	5
XP000199	FLACUED NEMA	EACH	20	20
N 1000 199	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
XP000207	ALUMINUM LIGHT POLE, 45', COMPLETE, RD, W/ TENON TOP, W/T BASE, 17" B.C., DK. BRONZE POWDER COAT	FACH	5	5
	S.O., S.I. S.I.O., E. P. O. I.			
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
			2000	-
XP000300	TRAFFIC SIGNAL RELAMPING	EACH	5	5
XP000301	TRAFFIC SIGNAL LAMP REPLACEMENT	EACH	5	5

				CONSTR. CODE
				100% STATE
				TRAFFIC SIGNALS
CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN
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
X-000309	REPAIR HIGHWAT LIGHT FOLE KNOCKDOWN	EACH	100	100
XP000310	REPLACE HICHWAY LIGHT POLE BREAKAWAY DEVICE, COUPLINGS	EACH	5	5
XP000311	REPLACE HIGHWAY LIGHT POLE BREAKAWAY DEVICE, TRANSFORMER BASF	EACH	40	40
XP000312	REPLACE TRAFFIC SIGNAL POST BASE ASSEMBLY	EACH	40	40

-L. 19120 SOC—† tonocy \AME: c:\pw\_work\pwidot\daniel.hopkins@illinois.gov\d1040324\D876R2

USER NAME = daniel.hopkins	DESIGNED -	REVISED -
	DRAWN -	REVISED -
	CHECKED -	REVISED -
PLOT DATE = 11/21/2024	DATE -	REVISED -

STATE OF ILLINOIS									
DEPARTMENT OF TRANSPORTATION									

SCALE:

SUMMARY OF QUANTITIES							F.A.P RTE. SECTION				COUNTY	TOTAL SHEETS	SHEET NO.
					VAR.	DIST 8 LTS 2026-1			VARIOUS	8	6		
											CONTRAC	T NO. 76	₹28
SHEET 4	OF	4	SHEETS	STA.	TO STA	٨.			ILLINOIS	FED. AI	D PROJECT		

Project				
Date	Contract Number	Section Number	County	
03/03/25	N/A	N/A		

Various Various Roadway

Transverse Distribution Lateral Distribution Replacement For 150W Underpass Type III Medium

I otal Light Loss Factor (LLF)

Refer to Notes 6 and 7

U=0 Shields Dimming Protocol Spacing

60 ft Single Sided 
 Performance (see notes 5 and 6)
 Uniformity Ratio, Ener/Emm

 Average Illuminance, Exce (fc)
 Uniformity Ratio, Excer/Emm

 N/A
 N/A

N/A

Average Luminance, Live (cd/m²) Uniformity Ratio, Live/Live

0.6 to 0.9

[less than or equal to 3.5:1] [less than or equal to 6.0:1] [less than or equal to 0.3:1]

0.6 to 0.0 | leas than or equal to 3.5:1 | leas than or equal to 6.0:1 | leas than or equal to 6 N/A

| N/A | Notes | 1. Get-Dack is from Edge of Pavement (white line). | 1. Get-Dack is from Edge of Pavement (white line). | 2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway. | 3. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above. | 4. Lane width is the width of each individual lane, not to be confused with total roadway width. | 5. Compliance with performance criteria shall be held to one significant digit. | 6. Photometric calculations for roadways shall be performed with a total light loss factor of 0.7 | 1. Light respass calculations shall be performed with a total light loss factor of 1. oan own tho nozomal calculations performed at grade and vertical calculations performed with calculation points located three feet above grade. | 8. Luminaire performance totable is intended to define the luminaire and doce not noceocarily match any specific roadway goometry, mounting height, setback, or erm length.

Luminaire Performance Table

Project Date	Contract Num	ber	Section Nu	mber	Co	unty				
03/03/25	N/A		N/A							
Marked Route	Number			Municipalit	y					
Various				Various						
Roadway										
Lane Width (s 12	ee note 4) Nur	nber and D	irection of lane	Medi N/A	ian Width	Surface Cla	ssification	Q-Zero Value 0.07		
Structure										
Mounting Hei	aht Arm Length	Set-Back	(see note 1)	Number	of Luminarie	es				
45 ft	15 ft	15 ft		N/A						
Luminaire										
Description				Transvers	e Distribution	1	Later	al Dietribution		
Replaceme	nt for 250W H	orizontal	Mount	Type III			Med	ium		
Total Light Lo	ss Factor (LLF)		Shields			Dimming Protocol				
Refer to No	tes 6 and 7	U=0			N/A			0-10V		
Layout										
Spacing	Cor	ifiguration								
160 ft	Sir	gle Sideo	ı							
Performanc	e (see notes 5	and 6)								
Average Illum	inance, EAVE (fc)		Uniformity Rat	io, Eave/Emin						
0.9 to 1.4			less than or	equal to	3.0:1					
Average Lumi	nance, L <sub>ine</sub> (cd/n	°) Uniform	nity Ratio, Lwe	/Loan	Uniformity	Ratio, Luc/Lu	IIV.	Veiling Luminance Ratio, Lv/Lx		
0.6 to 0.9		less th	nan or equa	I to 3.5:1	less than	or equal to	6.0:1	less than or equal to 0.3:		
Light Tress	oass (see note	s 5 and 7								
Distance to R	OW (behind pole	Max. Hor	izontal Illumin	ance at ROV	W, EH	Max. Vertic	cal Illumina	ance at ROW, Ev		
	/A N/A					N/A				

Set Back is from Edge of Pavement (white line).
 Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
 Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.
 Lane width is the width of each individual lane, not to be confused with total roadway width.
 Compliance with performance criteria shall be held to one significant digit.
 Photometric calculations for roadways shall be performed with a total light loss factor of 0.7
 Light trespass calculations shall be performed with a total light loss factor of 10 and with horizontal calculations performed at grade and vertical calculations performed with calculation points located three feet above grade.
 Luminaire performance table is intended to define the luminaire and does not necessarily match any specific roadway geometry, mounting height, setback, or arm length.

Luminaire Performance Table

Date	Contract Num	ber	Section Nu	ımber	Co	ounty				
03/03/25	N/A		N/A							
Marked Route	Number			Municipa	ity					
Various	110111001			Various						
Roadway				T anoua						
Lane Width (s	ee note 4) Nur	nber and Dir	action of lan	os Moi	dian Width	Surface Class	ification	Q-Zero Value		
12	3	inoci dila bii	COLIOIT VI IGII	N/A		R3	moddon	0.07		
77.000				14//	1	113		0.07		
Structure		0.10.11		N.C. Constitution	r of Luminari					
	ht Arm Length	Set-Back (	see note 1)		r or Luminan	es				
45 ft	1 ft	30 ft		N/A						
Luminaire										
Description				Transver	se Distributio	n		al Distribution		
Replaceme	nt for 250W N	lulti-Mount		Type III			Med	ium		
Total Light Los	ss Factor (LLF)	B-U-G F	tating		Shields			Dimming Protocol		
Refer to No	tes 6 and 7	U=0			N/A			0-10V		
Lavout										
Spacing	Cor	figuration								
145 ft	Sir	igle Sided								
Porformance	(see notes 5	and 6)								
	nance, E <sub>AVE</sub> (fc)		Iniformity Ra	tio Fave/Fa	w.					
0.9 to 1.4	Harroo, Eart (10)		ess than o	- 17						
	nance, Lwe (od/m				010000 100	Deti- I ii		Matter Lumbers	D-1- 1-1	
-	nance, Leve (ca/n			Ratio, Lave/Lenn Uniformity Ratio, Laux/Lenn				Veiling Luminance Ratio, Lv/Lvv		
0.6 to 0.9			an or equa	or equal to 3.5:1 less than or equal to 6.0			5.0:1	less than or equal to 0.3:1		
	ass (see note									
	OW (behind pole	7	zontal Ilumin	ance at RC	W, En		Illumina	ance at ROW, Ev		
N/A		N/A				N/A				
Notes										
	ack is from Edge				arianted tou	ard and perpend	louler to	the readurer		
								ince for the luminain	e. based on	
	ven conditions li									
						total roadway w	ridth.			
	liance with perfo									
						ght loss factor of				
								ntal calculations per	ormed at	
8. Lumii		e table is inti	ended to def			d three feet abov es not necessari		any specific roadw	ay geometry	

BDE 5630 (Rev. 06/06/24) Printed 03/03/25 BDE 5630 (Rev. 06/06/24) Printed 03/03/25 BDE 5630 (Rev. 06/06/24)

Illinois Department of Transportation

Luminaire Performance Table

roject											
ate	Contract	Numb	er	Section Nur	mber		ounty				
3/03/25	N/A			N/A							
larked Route N	lumber				Municipalit	ty					
'arious					Various						
oadway					,						
ane Width (see	e note 4)	Num	ber and D	irection of lane	s Med	ian Width	Surface Cla	assification	Q-Zero Value		
2		4			N/A		R3		0.07		
tructure											
founting Heigh	t Arm Lei	ngth	Set-Back	(see note 1)	Number	of Luminar	ics				
5 ft	15 ft		15 ft		N/A						
uminaire											
escription					Transvers	e Distributio	n	Latera	al Distribution		
Replacemen	for 400	W H	orizontal	Mount	Type III			Medi	um		
otal Light Loss	Factor (LI	LF)	B-U-G	Rating	267	Shields			Dimming Protocol		
Refer to Note	es 6 and	7	U=0			N/A			0-10V		
ayout			- 1								
pacing		Conf	iguration								
40 ft		Sing	gle Side	d							
erformance	(see note	es 5 a	nd 6)								
verage Illumin	ance, E <sub>AVE</sub>	(fc)		Uniformity Rati	io, Ene/Emn						
.9 to 1.4				less than or	equal to	3.0:1					
verage Lumina	ance, Lave (	cd/m²	) Unifor	mity Ratio, Lave	/Lmn	Uniformit	Ratio, Lway/L	MIN	Veiling Luminance Ratio, L	_WLAVE	
.6 to 0.9			less t	han or equal	l to 3.5	less tha	n or equal t	to 6.0:1	less than or equal to 0	0.3:1	
ight Tresspa	iss (see i	notes	5 and 7	)							
istance to RO	W (behind	pole)	Max. Ho	rizontal Illumina	ance at RO	N, EH	Max. Vert	ical Illumina	nce at ROW, Ev		
I/A			N/A				N/A				
otes											

1. Set-Back is from Edge of Pavement (white line).
2. Lighting calculations shall be performed with all uninaires oriented toward and perpendicular to the roadway.
3. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.
4. Lane width is the width of each individual lane, not to be confused with total roadway width.
5. Compliance with performance criteria shall be held to one significant digit.
6. Compliance with performance criteria shall be held to one significant digit.
7. Light trappas calculations better all be performed with a total light loss factor of 0.7.
8. Light trappas calculations shall be performed with a total light loss factor of 1.0 and with horizontal calculations performed at grade and vertical calculations performed with calculation points located three feet above grade.
8. Luminaire performance table is intended to define the luminaire and does not necessarily match any specific roadway geometry, mounting height, setback, or arm length.

(P)	Illinois Departmen of Transportation
(A)	of Transportation

Luminaire Performance Table

Project											
Date	Contract	Numbe	er	Section Nur	nber	Co	unty				
03/03/25	N/A			N/A							
Marked Route	Number				Municipality						
Various					Various						
Roadway											
Lane Width (se	ee note 4)	Numb	er and Dire	ection of lane	s Media	an Width	Surface C	Classification	Q-Zero Value		
12		4			N/A		R3		0.07		
Structure		,									
Mounting Heig	ht Arm Ler	ngth !	Set-Back (	see note 1)	Number	of Luminarie	es	-			
45 ft	1 ft	:	30 ft		N/A						
Luminaire											
Description					Transverse	Distribution	n	Latera	I Distribution		
Replaceme	nt for 400'	W Mul	ti-Mount		Type III			Medi	um		
Total Light Los	ss Factor (LI	LF)	B-U-G R	ating		Shields			Dimming Protocol		
Refer to No	tes 6 and	7	U=0			N/A			0-10V		
Layout											
Spacing		Config	uration								
155 ft		Singl	e Sided								
Performance	e (see note	es 5 ar	nd 6)								
Average Illumi	inance, E <sub>ME</sub>	(fc)	U	niformity Rati	O, EAVE/EMPL						
0.9 to 1.4			le	ss than or	equal to 3	.0:1					
Average Lumi	nance, Lave (	(cd/m²)	Uniformi	ty Ratio, Lave/	Lmin	Uniformity	Ratio, Lux/	LMN	Veiling Luminance Ratio, Lu/Lu		
0.6 to 0.9			less tha	an or equal	to 3.5:1	less than	or equal	to 6.0:1	less than or equal to 0.3:		
Light Tressp	oass (see i	notes	5 and 7)								
	DW (behind	pole)	Max. Horiz	ontal Illumina	nce at ROV	/, Ен	Max. Ve	rtical Illumina	nce at ROW, Ev		
Distance to RO		I/A N/A				N/A					

SCALE:

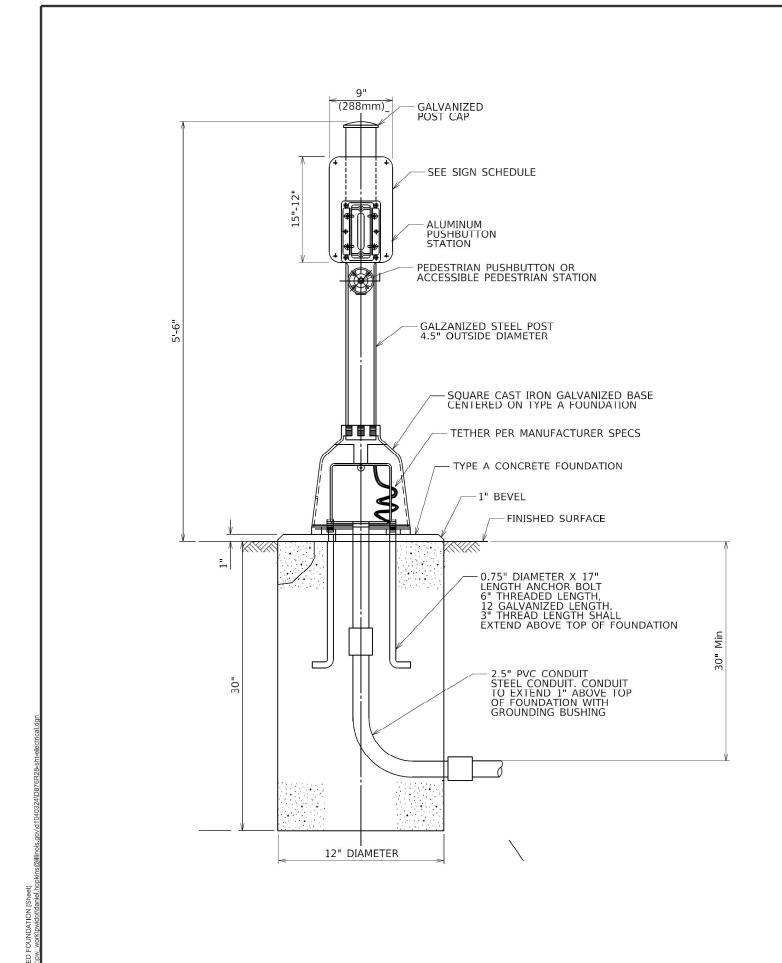
1. Set-Back is from Edge of Pavement (white line).
2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to the roadway.
3. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.
4. Lane width is the width of each individual lane, not to be confused with total roadway width.
5. Compliance with performance criteria shall be held to one significant digit.
6. Photometric calculations for roadways shall be performed with a total light toss factor of 0.7.
6. Light trespass calculations ablia be performed with a total light loss factor of 10 and with horizontal calculations performed at grade and vertical calculations performed with calculation points located three feet above grade.
6. Luminaire performance table is intended to define the luminaire and does not necessarily match any specific roadway geometry, mounting height, setback, or arm length.

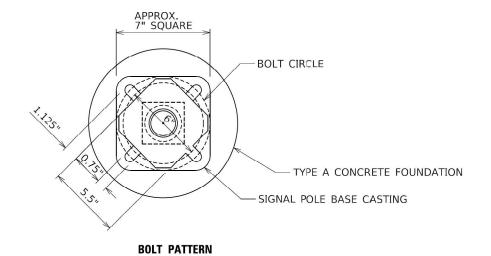
JSER NAME = daniel.hopkins DESIGNED -REVISED -DRAWN REVISED CHECKED -REVISED PLOT DATE = 3/12/2025 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SECTION COUNTY **LUMINAIRE PERFORMANCE TABLE** VARIOUS 8 7 VAR. DIST 8 LTS 2026-1 CONTRACT NO. 76R28 SHEET 1 OF 2 SHEETS STA. TO STA.

BDE 5630 (Rev. 06/06/24)





# PEDESTRIAN PUSH-BUTTON POST

USER NAME = daniel.hopkins	DESIGNED -	REVISED -	STATE OF ILLINOIS	TRΔ	FFIC SIGNAL DETAILS CONCRETE FOUNDATION.	F.A.P RTE	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -			TYPE A PEDESTRIAN PUSH-BUTTON POST	VAR.	DIST 8 LTS 2026-1	VARIOUS	8	8
	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	I TPE A PEDESTRIAN POSH-BUTTON POST				CONTRACT NO. 76R		R28
PLOT DATE = 11/21/2024	DATE -	REVISED -		SCALE:	SHEET 2 OF 2 SHEETS STA. TO STA.		ILLINOIS FED. AID	D PROJECT		