06-16-2023 LETTING ITEM 151

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SECTION DIST 8 LTS 2024-1

INDEX OF SHEETS:

0

0

COVER SHEET

HIGHWAY STANDARDS AND GENERAL NOTES

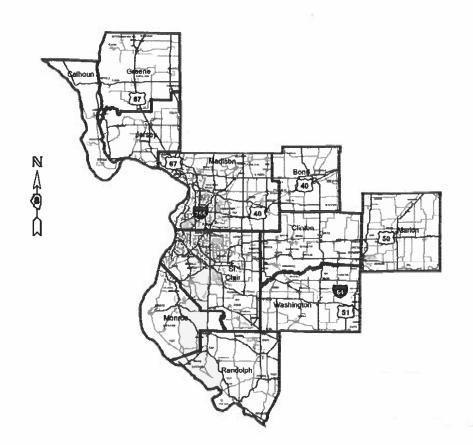
SUMMARY OF QUANTITIES LUMINAIRE PERFORMANCE TABLE

CONCRETE FOUNDATION TYPE A PED PUSH-BUTTON POST

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES SECTION DIST 8 LTS 2024-1 **HIGHWAY LIGHTING, TRAFFIC SIGNAL REPAIR & MAINTENANCE VARIOUS COUNTIES**

C-98-127-22



NOTE: WORK CAN BE LOCATED WITHIN ANY OF THE ABOVE NOTED COUNTIES WITH IN DISTRICT 8/ REGION 5.

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 OR 811

PROJECT ENGINEER: CHERYL KEPLAR PROJECT MANAGER: DANIEL HOPKINS

CONTRACT NO. 76R52







PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

HIGHWAY STANDARDS

701001-02 701006-05 701101-05 701106-02 701201-05 701206-05 701301-04 000001-08	701400 - 11 701401 - 13 701406 - 13 701421 - 08 701422 - 10 701446 - 11 701451 - 05 001006	701456-05 701601-09 701606-10 701701-10 701901-08 886001-01 886006-01	720001 - 01 720006 - 04 720016 - 04 821101 - 02 830001 - 03 838001 - 01 857001 - 01 873001 - 02 876001 - 04 880001 - 01 880006 - 01
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GENERAL NOTES

- 1. THE LOCATIONS 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.
- 4. ILLINOIS STATE LAW REQUIRES A 48 HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITITES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. (PHONE 800 892-0123 OR 811) OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY.
- 5. A FLAGGER SHALL BE REQUIRED AT ALL TIMES WHEN WORKERS OR EQUIPMENT ARE ENCROACHING ON THE LANE OF TRAFFIC.
- 6. 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.
- 7. ANY WORK ORDER MAY BE CANCELED AT THE ENGINEER'S/DEPARTMENT'S DISCRETION.
- 8. NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.

L	USER NAME = Daniel.Hopki sn	DESIGNED	REVISED			шсц	M/AV 61		RDS AND		F.A.P.	SECTION	COUNTY	SHEETS	SHEET NO.
L		DRAWN	REVISED	STATE OF ILLINOIS		пібп	OFNET	AL NO)TEO		VAR	DIST 8 LTS 2024-1	VARIOUS	8	2
	PLOT SCALE = 0.08333317 '/i n.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION			GENER	KAL NC	JIES				CONTRAC	T NO.	
	PLOT DATE = 2/21/2023	DATE	REVISED		SCHALE:SIZE 1 = 1	SHEET 0	OF 1	SHEETS	STA+	TO STA+		ILLINOIS FED. A	IDPROJECT		

				CONSTR. CODE					CONSTR. COD
				100% State					100% State
				TRAFFIC SIGNALS					TRAFFIC SIGNA
CODE			TOTAL	0021	CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN	NO.	ITEM	UNIT	QUANTITY	URBAN
								ļ	
80300100	LOCATING UNDERGROUND CABLE	FOOT	1000	1000	XP000001	JOURNEYMAN ELECTRICIAN	HOUR	1000	1000
82110005	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E	EACH	5	5	XP000002	APPRENTICE ELECTRICIAN	HOUR	100	100
82110007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G	EACH	20	20	XP000009	PICK-UP TRUCK	HOUR	700	700
82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	40	40	XP000012	ARROWBOARD (TRAILER MOUNTED)	HOUR	20	20
82110032	LUMINAIRE, LED, SIGN LIGHTING, OUTPUT DESIGNATION E	EACH	5	5	XP000013	ATTENUATOR, CRASH (TRUCK MOUNTED)	HOUR	500	500
87000240	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 2 AND NO. 4	FOOT	500	500	XP000014	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	X7010218	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	EACH	29	29
87000885	ELECTRIC CABLE ASSEMBLY IN CONDUIT, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8	FOOT	500	500	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	100	100
87005275	ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 4 AND NO. 6	FOOT	1000	1000	X8760201	PEDESTRIAN PUSH-BUTTON POST	EACH	50	50
			1000	1000					
87005385	ELECTRIC CABLE ASSEMBLY IN TRENCH, 600V (XLP-TYPE TC) 2/C NO. 6 AND NO. 8	FOOT	1000	1000	X8860400	DETECTOR LOOP, SPECIAL	FOOT	5000	5000
88102825	PEDESTRIAN SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, BRACKET MOUNTED WITH COUNT DOWN TIMER	EACH	60	60	XP000015	DIGGER DERRICK	HOUR	100	100
88200510	TRAFFIC SIGNAL BACKPLATE, RETROREFLECTIVE	EACH	30	30	XP000028	LABOR	HOUR	100	100
88800100	PEDESTRIAN PUSH-BUTTON	EACH	100	100	XP000029	BUCKET TRUCK/VAN FOR TRAFFIC SIGNALS	HOUR	700	700

USER NAME = Daniel.Hopkins	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 0.08333317 ' / in.	CHECKED	REVISED
PLOT DATE = 2/21/2023	DATE -	REVISED -

SUMMAR	OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	
SHEETTI	FLINE2	VAR	DIST 8 LTS 2024-1	VARIOUS	3	8
ONEETH				CONTRACT	NO. 76	R52
SENLE:SIZE 1 = 1 SHEET 0 OF 1 S	ETS STA+ TO STA+		ILLINOIS FED. A	ID PROJECT		

				CONSTR. CODE					CONSTR. CODE
				100% State					100% State
				TRAFFIC SIGNALS					TRAFFIC SIGNAL
CODE			TOTAL	0021	CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN	NO.	ITEM	UNIT	QUANTITY	URBAN
XP000030	BUCKET TRUCK FOR HIGHWAY LIGHTING	HOUR	700	700	XP000123	SD-100 BU STARTER	EACH	5	5
XP000031	POLE TRAILER	HOUR	100	100	XP000124	SURGE ARRESTOR (EDCO MODEL SHA-XXX3) X=20/240/480 VOLTS	EACH	20	20
74 000001	- SEE HOULER	11001	100	100	71 000 124	OUNCE ANNE OF ON (EDGG WOBEL OF A PARK) X-20/240/400 VOETO	LAGIT	20	20
XP000032	FLATBED TRAILER	HOUR	100	100	XP000125	PHOTO CONTROL, 105V-285V (ALR-MODEL SSTPV-ON)	EACH	20	20
XP000101	ATQ 5A FUSE 200	EACH	200	200	XP000126	#12 XLPE 1/C COPPER WIRE	FEET	500	500
XP000102	FNQ 5A FUSE	EACH	200	200	XP000127	#8 XLP-TYPE USE 1/C COPPER WIRE	FEET	500	500
XP000104	FNM 10A FUSE	EACH	5	5	XP000128	#6 XLP-TYPE USE 1/C COPPER WIRE	FEET	10000	10000
XP000105	FRNR 60A FUSE	EACH	5	5	XP000129	60A LIGHTING CONTACTOR	EACH	5	5
XP000106	BUCHANAN FUSEHOLDER KIT	EACH	50	50	XP000130	100A LIGHTING CONTACTOR	EACH	5	5
XP000115	150W HPS LAMP	EACH	5	5	XP000132	50A CIRCUIT BREAKER, 1P	EACH	5	5
	1								
XP000116	250W HPS LAMP	EACH	100	100	XP000135	50A CIRCUIT BREAKER, 2P	EACH	5	5
VD000440	Leaving and	5,00	250					_	_
XP000118	400W HPS LAMP	EACH	350	350	XP000137	150A CIRCUIT BREAKER, 2P	EACH	5	5
XP000119	150W 240/480V BALLAST KIT	EACH	5	5	XP000138	200A CIRCUIT BREAKER, 2P	EACH	5	5
7			,		74 500100				
XP000120	250W 240/480V BALLAST KIT	EACH	100	100	XP000139	BREAKAWAY COUPLING, 1"	EACH	5	5
XP000122	400W 240/480V BALLAST KIT	EACH	150	150	XP000140	1/4" X 1/4" STAINLESS STEEL MESH	SQ FT	10	10
			I .					J	l.

DEL: SOQ 2 [Sheet]

USER NAME = Daniel.Hopkins	DESIGNED	REVISED		SUMMARY OF QUANTITIES	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
	DRAWN	REVISED	STATE OF ILLINOIS	· ·	VAR	DIST 8 LTS 2024-1	VARIOUS	4	8
PLOT SCALE = 0.08333317 ' / in.	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION	SHEETTITLELINE2			CONTRACT	NO. 76F	352
PLOT DATE = 2/21/2023	DATE	REVISED		SCOLE:SIZE 1 = 1 SHEET 0 OF 1 SHEETS STA+ TO STA+		ILLINOIS FED. AII	D PROJECT		

I TEM AL BASE, SQUARE (PELCO) AL POST, 13', SCH 80 (PELCO) KET, 3 SECTION (PELCO AB 11 6) KET, 4 SECTION (PELCO AB 11 6) KET, 5 SECTION (PELCO AB 11 6) ALOGEN, 43W @, 10.8V (GE OR EQUIVALENT) DLYCARBONATE, LED, 1-SECTION, 12", R OR Y (ECONOLITE OR	EACH EACH EACH EACH	TOTAL QUANTITY 100 5 5 5 5 50	TRAFFIC SIGNALS 0021 URBAN 100 5 5 5 5	CODE NO. XP000173 XP000174 XP000175 XP000176	ELECTRIC CABLE, 6 PR, #18, TW, SH ELECTRIC CABLE, 2/C, #14 ELECTRIC CABLE, 3/C, #14 ELECTRIC CABLE, 5/C, #14 ELECTRIC CABLE, 5/C, #14	FEET FEET FEET FEET	TOTAL QUANTITY 10 3000 3000 3000	100% State TRAFFIC SIGNALS 0021 URBAN 10 3000 3000
AL BASE, SQUARE (PELCO) AL POST, 13', SCH 80 (PELCO) KET, 3 SECTION (PELCO AB 11 6) KET, 4 SECTION (PELCO AB 11 6) KET, 5 SECTION (PELCO AB 11 6) ALOGEN, 43W @, 10.8V (GE OR EQUIVALENT)	EACH EACH EACH EACH	100 5 5 5 5	0021 URBAN 100 5 5 5	XP000173 XP000174 XP000175 XP000176 XP000177	ELECTRIC CABLE, 6 PR, #18, TW, SH ELECTRIC CABLE, 2/C, #14 ELECTRIC CABLE, 3/C, #14 ELECTRIC CABLE, 5/C, #14	FEET FEET FEET	3000 3000 3000	0021 URBAN 10 3000 3000
AL BASE, SQUARE (PELCO) AL POST, 13', SCH 80 (PELCO) KET, 3 SECTION (PELCO AB 11 6) KET, 4 SECTION (PELCO AB 11 6) KET, 5 SECTION (PELCO AB 11 6) ALOGEN, 43W @, 10.8V (GE OR EQUIVALENT)	EACH EACH EACH EACH	100 5 5 5 5	URBAN 100 5 5 5	XP000173 XP000174 XP000175 XP000176 XP000177	ELECTRIC CABLE, 6 PR, #18, TW, SH ELECTRIC CABLE, 2/C, #14 ELECTRIC CABLE, 3/C, #14 ELECTRIC CABLE, 5/C, #14	FEET FEET FEET	3000 3000 3000	3000 3000 3000
AL BASE, SQUARE (PELCO) AL POST, 13', SCH 80 (PELCO) KET, 3 SECTION (PELCO AB 11 6) KET, 4 SECTION (PELCO AB 11 6) KET, 5 SECTION (PELCO AB 11 6) ALOGEN, 43W @, 10.8V (GE OR EQUIVALENT)	EACH EACH EACH EACH	100 5 5 5	5 5 5	XP000173 XP000174 XP000175 XP000176 XP000177	ELECTRIC CABLE, 6 PR, #18, TW, SH ELECTRIC CABLE, 2/C, #14 ELECTRIC CABLE, 3/C, #14 ELECTRIC CABLE, 5/C, #14	FEET FEET FEET	3000 3000 3000	3000 3000 3000
AL POST, 13', SCH 80 (PELCO) KET, 3 SECTION (PELCO AB 11 6) KET, 4 SECTION (PELCO AB 11 6) KET, 5 SECTION (PELCO AB 11 6) ALOGEN, 43W @, 10.8V (GE OR EQUIVALENT)	EACH EACH EACH	5 5 5	5 5 5	XP000174 XP000175 XP000176 XP000177	ELECTRIC CABLE, 2/C, #14 ELECTRIC CABLE, 3/C, #14 ELECTRIC CABLE, 5/C, #14	FEET FEET	3000	3000 3000 3000
AL POST, 13', SCH 80 (PELCO) KET, 3 SECTION (PELCO AB 11 6) KET, 4 SECTION (PELCO AB 11 6) KET, 5 SECTION (PELCO AB 11 6) ALOGEN, 43W @, 10.8V (GE OR EQUIVALENT)	EACH EACH EACH	5 5 5	5 5 5	XP000174 XP000175 XP000176 XP000177	ELECTRIC CABLE, 2/C, #14 ELECTRIC CABLE, 3/C, #14 ELECTRIC CABLE, 5/C, #14	FEET FEET	3000	3000 3000 3000
KET, 3 SECTION (PELCO AB 11 6) KET, 4 SECTION (PELCO AB 11 6) KET, 5 SECTION (PELCO AB 11 6) ALOGEN, 43W @, 10.8V (GE OR EQUIVALENT)	EACH EACH	5 5 5	5 5	XP000175 XP000176 XP000177	ELECTRIC CABLE, 3/C, #14 ELECTRIC CABLE, 5/C, #14	FEET	3000	3000
KET, 4 SECTION (PELCO AB 11 6) KET, 5 SECTION (PELCO AB 11 6) ALOGEN, 43W @, 10.8V (GE OR EQUIVALENT)	EACH EACH	5	5	XP000176 XP000177	ELECTRIC CABLE, 5/C, #14	FEET	3000	3000
KET, 5 SECTION (PELCO AB 11 6) ALOGEN, 43W @, 10.8V (GE OR EQUIVALENT)	EACH	5	5	XP000177				
KET, 5 SECTION (PELCO AB 11 6) ALOGEN, 43W @, 10.8V (GE OR EQUIVALENT)	EACH	5	5	XP000177				
ALOGEN, 43W @, 10.8V (GE OR EQUIVALENT)					ELECTRIC CABLE, 7/C, #14	FEET	3000	3000
	EACH	50	50					1
DLYCARBONATE, LED, 1-SECTION, 12", R OR Y (ECONOLITE OR				XP000179	GROUND ROD, 8', COPPER CLAD	EACH	5	5
	EACH	5	5	XP000180	SPLICE KIT (3-M SCOTCHCAST #72-N1)	EACH	10	10
DLYCARBONATE, LED, 3-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	120	120	XP000181	LOOP SEALANT (BONDO P606)	GALLON	30	30
DLYCARBONATE, LED, 4-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	50	50	XP000186	J BOX, NEMA, 4X, SS, 6"X8"X4", W/ ALUMINUM BACKPLATE & LOCK KIT	EACH	5	5
DLYCARBONATE, LED, 5-SECTION, 12", (ECONOLITE OR MCCAIN)	EACH	50	50	XP000187	HANDHOLE, FRAME & COVER (NEENAH R-6660- JP)	EACH	5	5
AD, POLYCARBONATE, LED, 2-SECTION, 12", (ECONOLITE OR	EACH	40	40	XP000188	HANDHOLE, COVER ONLY (NEENAH R-6660-JP)	EACH	20	20
Ξ, 2/C, #14, TW, SH	FEET	3000	3000	XP000191	SIGN, ILLUMINATED, FIBEROPTIC-TYPE, 24"X30" "NO LEFT/RIGHT TURN" OR "LT TURN YIELD"	EACH	5	5
E, 3 PR, #18, TW, SH	FEET	10	10	XP000192	SIGN, ILLUMINATED, FIBEROPTIC-TYPE, 24"X30" SYMBOLIC "NO LEFT/RIGHT TURN"	EACH	5	5
	FEET	10	10	XP000193	MONITOR, NEMA CONFLICT, 12 CHANNEL (EDI SSM-12E)	EACH	5	5
	D, POLYCARBONATE, LED, 2-SECTION, 12", (ECONOLITE OR , 2/C, #14, TW, SH	D, POLYCARBONATE, LED, 2-SECTION, 12", (ECONOLITE OR EACH , 2/C, #14, TW, SH FEET , 3 PR, #18, TW, SH FEET	D, POLYCARBONATE, LED, 2-SECTION, 12", (ECONOLITE OR EACH 40 , 2/C, #14, TW, SH FEET 3000 , 3 PR, #18, TW, SH FEET 10	D, POLYCARBONATE, LED, 2-SECTION, 12", (ECONOLITE OR EACH 40 40 40 , 2/C, #14, TW, SH FEET 3000 3000 , 3 PR, #18, TW, SH FEET 10 10	D, POLYCARBONATE, LED, 2-SECTION, 12", (ECONOLITE OR EACH 40 40 XP000188 ,2/C, #14, TW, SH FEET 3000 3000 XP000191 ,3 PR, #18, TW, SH FEET 10 10 XP000192	D, POLYCARBONATE, LED, 2-SECTION, 12", (ECONOLITE OR EACH 40 40 XP000188 HANDHOLE, COVER ONLY (NEENAH R-6660-JP) ,2/C, #14, TW, SH FEET 3000 3000 XP000191 Sign, iLLUMINATED, FIBEROPTIC-TYPE, 24"X30" "NO LEFT/RIGHT TURN" OR "LT TURN YIELD" ,3 PR, #18, TW, SH FEET 10 10 XP000192 SIGN, ILLUMINATED, FIBEROPTIC-TYPE, 24"X30" SYMBOLIC "NO LEFT/RIGHT TURN"	D, POLYCARBONATE, LED, 2-SECTION, 12", (ECONOLITE OR EACH 40 40 XP000188 HANDHOLE, COVER ONLY (NEENAH R-6660-JP) EACH 3000 3000 XP000191 SIGN, ILLUMINATED, FIBEROPTIC-TYPE, 24"X30" "NO LEFT/RIGHT TURN" OR "LT TURN EACH YIELD" 3 PR, #18, TW, SH FEET 10 10 XP000192 SIGN, ILLUMINATED, FIBEROPTIC-TYPE, 24"X30" SYMBOLIC "NO LEFT/RIGHT TURN" EACH	D, POLYCARBONATE, LED, 2-SECTION, 12", (ECONOLITE OR EACH 40 40 XP000188 HANDHOLE, COVER ONLY (NEENAH R-6660-JP) EACH 20 2/C, #14, TW, SH FEET 3000 3000 XP000191 SIGN, ILLUMINATED, FIBEROPTIC-TYPE, 24"X30" "NO LEFT/RIGHT TURN" OR "LT TURN EACH 5 3 PR, #18, TW, SH FEET 10 10 XP000192 SIGN, ILLUMINATED, FIBEROPTIC-TYPE, 24"X30" SYMBOLIC "NO LEFT/RIGHT TURN" EACH 5

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	IV.				
USER NAME = Daniel.Hopkins	DESIGNED	REVISED		SUMMARY OF QUANTITIES FA.P. SECTION COUNTY SHEETS NO.	1
	DRAWN	REVISED	STATE OF ILLINOIS	NAD DIOTOTO TO COMP.	1
PLOT SCALE = 0.08333317 ' / in.	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION	SHEETTITLELINE2 VAR DIST 8 LTS 2024-1 VARIOUS 5 8 CONTRACT NO. 76R52	1
PLOT DATE = 2/21/2023	DATE -	REVISED -		SCRILE:SIZE 1 = 1 SHEET 0 OF 1 SHEETS STA. + . TO STA. + .	1

				CONSTR. CODE
				100% State
				TRAFFIC SIGNAL
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 RENO)	EACH	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	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.	EACH	5	5
AF 000207	BRONZE POWDER COAT	LACII	3	
XP000209	UPPER AND LOWER ARM ASSEMBLY, UNPAINTED ALUMINUM	EACH	120	120
	FLASHER CONTROLLER CABINET ASSEMBLY, NEMA (PELCO SE-1005 OR			
XP000210	EQUIVALENT)	EACH	5	5
XP000300	TRAFFIC SIGNAL RELAMPING	EACH	5	5
XP000301	TRAFFIC SIGNAL LAMP REPLACEMENT	EACH	5	5

				CONSTR. CODE
				100% State
				TRAFFIC SIGNAL
CODE			TOTAL	0021
NO.	ITEM	UNIT	QUANTITY	URBAN
XP000302	FLASHING BEACON INSPECTION	EACH	5	5
XP000303	TOWER LIGHTING INSPECTION	EACH	5	5
XF000303	TOWER EIGHTING INSPECTION	EACH		3
XP000304	REPLACE SERVICE INSTALLATION, COMPLETE	EACH	5	5
VD			1.00	100
XP000307	REPAIR TRAFFIC SIGNAL KNOCKDOWN	EACH	120	120
XP000308	REPAIR FLASHING BEACON KNOCKDOWN	EACH	40	40
VD00000	DEDAID HIGHWAY LOUT DOLE MAJOOM DOWN	EACH	100	100
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
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500
XP000312	REPLACE TRAFFIC SIGNAL POST BASE ASSEMBLY	EACH	40	40

Ø 0042

USER NAME = Daniel.Hopkins	DESIGNED	REVISED			SI
	DRAWN	REVISED	STATE OF ILLINOIS		SI
PLOT SCALE = 0.08333317 ' / in.	CHECKED	REVISED -	DEPARTMENT OF TRANSPORTATION		51
PLOT DATE = 2/21/2023	DATE	REVISED		SCALE:SIZE 1 = 1	SHEET 0

SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHE
SHEETTITI ELINE2	VAR	DIST 8 LTS 2024-1	VARIOUS	6	8
OTTLL TITLLLINLZ	8		CONTRACT	NO. 76	R52
OF 1 SHEETS STA. + TO STA. +		ILLINOIS FED. A	D PROJECT		

ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE LUMINAIRE PERFORMANCE TABLE LUMINAIRE PERFORMANCE TABLE LED Replacement for 250W HPS Multi-Mount Luminaire LED replacement for 400W HPS Horizontal Mount luminaire LED replacement for 250W HPS Horizontal Mount luminaire (replacement luminaire shall be mounted horizontally) **GIVEN CONDITIONS** GIVEN CONDITIONS **GIVEN CONDITIONS** Lane Width ROADWAY DATA 12 ft Lane Width 12 ft ROADWAY DATA Number of Lanes (in One direction Only) ROADWAY DATA Lane Width 12 ft Number of Lanes (In One Direction Only) Number of Lanes (One Direction Only) 0 ft Median Width 0 ft I.E.S. Surface Classification Median Width 0 ft R3 I.E.S. Surface Classification R3 I.E.S. Surface Classification R3 O-Zero Value .07 Q-Zero Value .07 Q-Zero Value .07 LIGHT POLE DATA Mounting Height 45 ft LIGHT POLE DATA Mounting Height 45 ft 45 ft LIGHT POLE DATA Mounting Height Luminaire Overhang Fron Luminaire Overhang From 0 ft 0 ft Luminaire Overhang From Edge of Pavement (White Line) Edge of Pavement (White Line) -30 ft Edge of Pavement (White Line) naire Type LED LUMINAIRE DATA LED Luminaire Type Luminaire Type LED I.E.S. Vertical Distribution LUMINAIRE DATA Medium I.E.S. Vertical Distribution Medium I.E.S. Vertical Distribution Medium BUG Rating U = 0**BUG Rating** U = 0**BUG Rating** I.E.S. Lateral Distribution Type II or III I.E.S. Lateral Distribution Type II or III I.E.S. Lateral Distribution Type III or IV Total Light Loss Factor 0.684 Total Light Loss Factor 0.684 Total Light Loss Factor 0.684 LAYOUT DATA Spacing 240 ft 160 ft LAYOUT DATA Spacing LAYOUT DATA 145 ft Configuration One Sided Configuration One Sided Configuration One Sided NOTES: NOTES: Total light loss factor is the product of "Lumen Depreciation" (LLD) = 0.90, "Dirt Depreciation" (LDF) = 0.80, and "Equipment factors" (EF) = 0.95. 1. Total light loss factor is the product of "Lumen Depreciation" (LLD) = 0.90, "Dirt Depreciation" (LDF) 1. Total light loss factor is the product of "Lumen Depreciation" (LLD) = 0.90, "Dirt Depreciation" (LDF) = 0.80, and "Equipment factors" (EF) = 0.95. = 0.80, and "Equipment factors" (EF) = 0.95. PERFORMANCE REQUIREMENTS PERFORMANCE REQUIREMENTS PERFORMANCE REQUIREMENTS NOTE: These performance requirements shall be the acceptable standards of photometric performance for the NOTE: These performance requirements shall be the acceptable standards of photometric performance for the NOTE: These performance requirements shall be the acceptable standards of photometric performance for the luminaire, based on the given conditions listed above. luminaire, based on the given conditions listed above. luminaire, based on the given conditions listed above. Average Illuminance, EAVE 0.9 fc to 1.4 fc Average Illuminance, EAVE 0.9 fc to 1.4 fc ILLUMINANCE Average Illuminance, E_{AVE} 0.9 fc to 1.4 fc ILLUMINANCE Uniformity Ratio, E_{AVE}/E_{MIN} Uniformity Ratio, EAVE/EMIN ≤ 3.0:1 ≤3.0:1 Uniformity Ratio, EAVE/EMIN ≤ 3.0:1 LUMINANCE Average Luminance, Lave 0.6 cd/m2 to 0.9 cd/m2 LUMINANCE Average Luminance, LAVE 0.6 cd/m2 to 0.9 cd/m2 0.6 cd/m² to 0.9 cd/m² LUMINANCE Average Luminance, LAVE Uniformity Ratio, Lave/Lmin Uniformity Ratio, LAVE/LMIN ≤3.5:1 < 3.5:1 Uniformity Ratio, LAVE/LMIN ≤ 3.5:1 Uniformity Ratio, Lway/Lwin ≤ 6.0:1 Uniformity Ratio, L_{MAX}/L_{MIN} Uniformity Ratio, LMAX/LMIN ≤ 6.0:1 Max. Veiling Luminance Ratio, Lv/Lave Max. Veiling Luminance Ratio, Lv/Lave ≤ 0.3:1 ≤ 0.3:1 Max. Veiling Luminance Ratio, Lv/Lave ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS DEPARTMENT OF TRANSPORTATION LUMINAIRE PERFORMANCE TABLE LUMINAIRE PERFORMANCE TABLE LED Replacement for 400W HPS Multi-Mount Luminaire LED Replacement for 150W HPS Underpass Luminaire (replacement luminaire shall be mounted horizontally) **GIVEN CONDITIONS GIVEN CONDITIONS** Lane Width 12 ft ROADWAY DATA Lane Width ROADWAY DATA 12 ft Number of Lanes (in One Direction Only) Number of Lanes (in One Direction Only) Median Width 0 ft Median Width 0 ft I.E.S. Surface Classification R3 I.E.S. Surface Classification R3 Q-Zero Value .07 O-Zero Value .07 LIGHT POLE DATA Mounting Height 16 ft LIGHT POLE DATA Mounting Height 45 ft Luminaire Overhang From Luminaire Overhang From -20 ft Edge of Pavement (White Line) Edge of Pavement (White Line) Luminaire Type LED **LUMINAIRE DATA** Luminaire Type LED LUMINAIRE DATA I.E.S. Vertical Distribution Medium I.E.S. Vertical Distribution Medium **BUG Rating BUG Rating** U = 0U = 0I.E.S. Lateral Distribution I.E.S. Lateral Distribution Type III or IV Type III or IV Total Light Loss Factor 0.684 Total Light Loss Factor 0.684 Spacing LAYOUT DATA 155 ft LAYOUT DATA Spacing 60 ft Configuration One Sided Configuration One Sided NOTES: Total light loss factor is the product of "Lumen Depreciation" (LLD) = 0.90, "Dirt Depreciation" (LDF) = 0.80, and "Equipment factors" (EF) = 0.95. 1. Total light loss factor is the product of "Lumen Depreciation" (LLD) = 0.90, "Dirt Depreciation" (LDF) = 0.80, and "Equipment factors" (EF) = 0.95. PERFORMANCE REQUIREMENTS PERFORMANCE REQUIREMENTS

NOTE: These performance requirements shall be the acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

 ILLUMINANCE
 Average Illuminance, EAVE
 0.9 fc to 1.4 fc

 Uniformity Ratio, EAVE/EMIN
 $\leq 3.0:1$

 LUMINANCE
 Average Luminance, LAVE
 $0.6 \text{ cd/m}^2 \text{ to } 0.9 \text{ cd/m}^2$

 Uniformity Ratio, LAVE/LMIN
 $\leq 3.5:1$

 Uniformity Ratio, LAMA/LMIN
 $\leq 6.0:1$

 Max. Veiling Luminance Ratio, LV/LAVE
 $\leq 0.3:1$

NOTE: These performance requirements shall be the acceptable standards of photometric performance for the luminaire, based on the given conditions listed above.

LUMINANCE	Average Luminance, L _{AVE}	0.6 cd/m ² to 0.9 cd/m ²
	Uniformity Ratio, LAVE/LMIN	≤ 3.5:1
	Uniformity Ratio, L _{MAX} /L _{MIN}	≤ 6.0:1
	Max. Veiling Luminance Ratio, Ly/Lave	< 0.2·1

SECTION

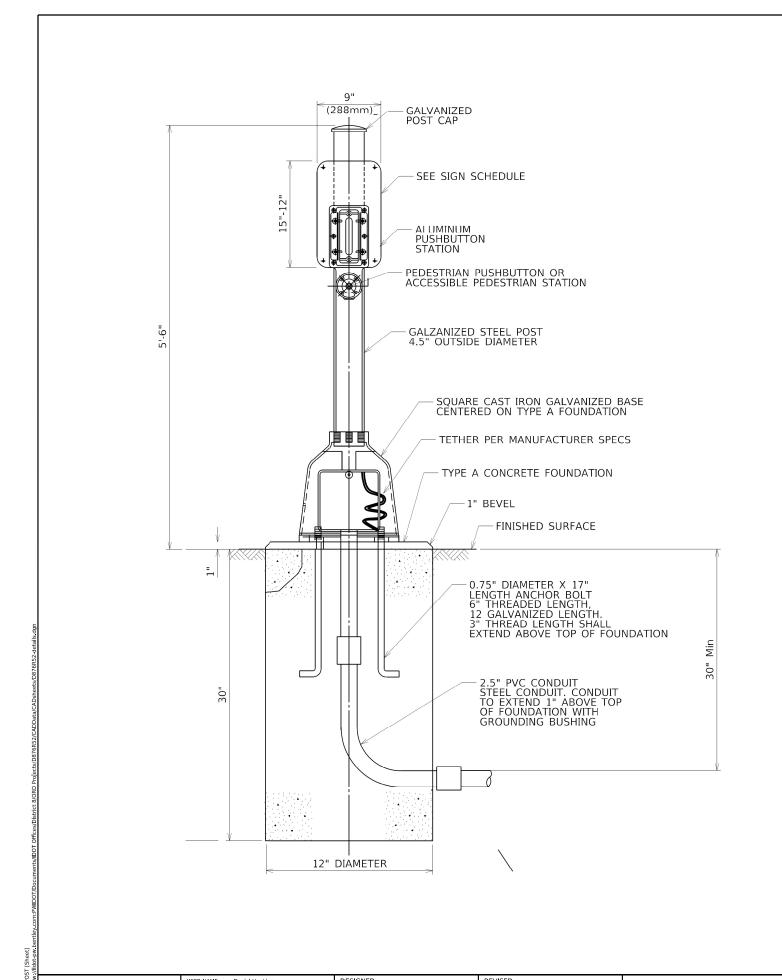
DIST 8 LTS 2024-1

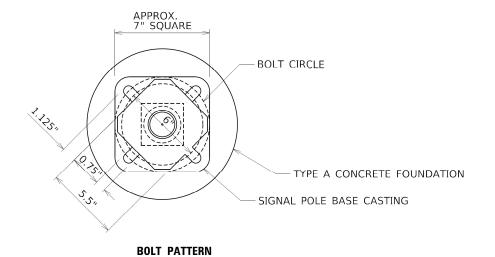
VAR

COUNTY

VARIOUS 8 7
CONTRACT NO. 76R52

	USER NAME = Daniel.Hopkins	DESIGNED	REVISED		
		DRAWN	REVISED	STATE OF ILLINOIS	LUMINAIRE PERFORMANCE TABLE
	PLOT SCALE = 0.08333317 ' / in.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION	
	PLOT DATE = 2/21/2023	DATE	DEVICED	1	SENIESIZE 1 - 1 SHEET 0 OF 1 SHEETS STA + TO STA





PEDESTRIAN PUSH-BUTTON POST

USEK NAME = Daniel.Hopkins	DESIGNED	REVISED
	DRAWN	REVISED
PLOT SCALE = 0.08333317 / in.	CHECKED	REVISED
PLOT DATE = 2/21/2023	DATE	REVISED

COUNTY TOTAL SHEETS NO.

VARIOUS 8 8

CONTRACT NO. 76R52