NO COMMITMENTS HAVE BEEN MADE IN CONJUNCTION WITH THIS PROJECT.

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SHEET	DESCRIPTION
1	COVER SHEET
2	COMMITMENTS, INDEX OF SHEETS, HIGHWAY STANDARDS, AND
2	TRAFFIC CONTROL NOTES
3	CONSTRUCTION NOTES
4	SUMMARY OF QUANTITIES
5 - 6	EXISTING LIGHTING PLANS & REMOVAL ITEMS - I-39 & CR 2200 N
J - 0	(EXIT 27) INTERCHANGE - WOODFORD COUNTY
7 - 8	PROPOSED LIGHTING PLANS - I-39 & CR 2200 N (EXIT 27)
7 - 0	INTERCHANGE - WOODFORD COUNTY
9	PROPOSED CIRCUIT DIAGRAM - I-39 & CR 2200 N (EXIT 27)
<u> </u>	INTERCHANGE - WOODFORD COUNTY
10	PROPOSED LUMINAIRE PERFORMANCE TABLES - I-39 & CR 2200 N
10	(EXIT 27) INTERCHANGE - WOODFORD COUNTY
11	PROPOSED LIGHTING CONTROLLER DETAIL - I-39 & CR 2200 N
	(EXIT 27) INTERCHANGE - WOODFORD COUNTY
12	PROPOSED LIGHT TOWER REPLACEMENT DESIGN - MACKINAW
12	DELLS REST AREAS (EB & WB) - WOODFORD COUNTY
13	PROPOSED LIGHT TOWER CIRCUIT DIAGRAMS - MACKINAW DELLS
15	REST AREAS (EB & WB) - WOODFORD COUNTY
14	PROPOSED LUMINAIRE PERFORMANCE TABLES - MACKINAW DELLS
17	REST AREAS (EB & WB) - WOODFORD COUNTY
15	PROPOSED LIGHTING CONTROLLER DETAIL - MACKINAW DELLS
L J	REST AREAS (EB & WB) - WOODFORD COUNTY

	HIGHWAY STANDARDS					
STANDARD APPLICATION						
000001-08 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS						
001006	DECIMAL OF AN INCH AND OF A FOOT					
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY					
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE					
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE					
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY					
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS					
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≥ 45 MPH					
701451-05	RAMP CLOSURE, FREEWAY/ EXPRESSWAY					
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY / EXPRESSWAY					
701901-08	TRAFFIC CONTROL DEVICES					
814001-03	HANDHOLES					
821101-02	LUMINAIRE WIRING IN POLE					
830021-03	LIGHT POLE STEEL TENON TOP					
836001-04	LIGHT POLE FOUNDATION					
838001-01	BREAKAWAY DEVICES					

TRAFFIC CONTROL NOTES:

I-39 MAINLINE:

1. USE STD. 701301, ONE ADDITIONAL FLAGGER SHALL BE REQUIRED FOR APPROACHING TRAFFIC ON THE EXIT RAMP WITHIN THE LANE CLOSURE. THIS COST IS INCIDENTAL TO STD. 701301.

I-39 RAMPS:

- 1. THE CONTRACTOR SHALL GIVE 14 DAYS ADVANCE NOTICE PRIOR TO STARTING WORK ON THE RAMPS.
- 2. STD. 701451 SHALL BE USED TO CLOSE THE RAMPS.
- 3. STD. 701426 SHALL BE USED TO CLOSE THE DRIVING LANE OF MAINLINE I-39 DURING REMOVAL OF THE TWO TOWERS LOCATED AT GORE AREAS ALONG I-39.

MACKINAW DELLS REST AREAS:

- 1. THE CONTRACTOR SHALL NOTIFY BRITTANY GAVIN, D4 ROADSIDE MANAGER, (309-671-4479) 7 DAYS PRIOR TO TOWER REMOVAL.
- 2. PARKING SPACES AFFECTED BY THE TOWER REMOVAL AND INSTALLATION WORK SHALL BE BARRELLED OFF 24 HOURS PRIOR TO STARTING THE WORK. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE TOWER REMOVAL.
- 3. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL DURING THE REMOVAL OF THE LIGHT TOWERS IN THE EASTBOUND MACKINAW REST AREA BY UTILIZING A SLOW ROLL OPERATION WITH TWO VEHICLES DRIVING IN THE I-74 EB LANES TO PROVIDE AN OPENING IN THE WB LANES WHERE THERE IS NO TRAFFIC ON THE ROADWAY WHILE THE LIGHT TOWERS ARE REMOVED AND LAID DOWN. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE TOWER REMOVAL.

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	CONSTRUCTION NOTES
1.	THE LOCATION OF ALL UTILITIES AND PRIVATELY OWNED FACILITIES SHALL BE FIELD VERIFIED BY THE GENERAL CONTRACTOR PRIOR TO THE INSTA
2.	THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE IF REQUIRED
	FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.
3.	ELECTRICAL WORK SHALL CONFORM WITH NATIONAL, STATE, AND LOCAL CODES.
4.	THE LOCATIONS FOR LIGHT POLES ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR LOCATION VERIFICAT
5.	ALL HIGHWAY LIGHTING STRUCTURES SHALL BE BONDED IN ACCORDANCE WITH NEC REQUIREMENTS. THIS WORK SHALL BE PAID FOR AT THE CO
	NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE" AND SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS (INCLUDING CLAM
	ITEMS REQUIRED TO BOND THE STRUCTURES.)
6.	THE CONTRACTOR SHALL PROVIDE ELECTRICAL CABLE SLACK IN ACCORDANCE WITH ARTICLE 873.03.
7.	ELECTRICAL CABLE WILL BE MEASURED FOR PAYMENT IN ACCORDANCE WITH ARTICLE 817.04.
8.	POTHOLING TO LOCATE EXISTING UNDERGROUND UTILITIES SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR THE UNIT-DUCT PAY ITEM.
9.	ALL SURPLUS MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
10.	NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING UNIT-DUCT OR CONDUIT AT GREATER THAN 2 FT. MINIMUM DEPTH TO AVOID OB
11.	THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WO
	THE UNIT-DUCT AND CONDUIT.
12.	THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING. THERE WILL BE NO ADDITIONAL COMPENSATION PAID FOR CLAIMS THAT A
	EXISTING FIELD CONDITIONS.
13.	THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING LIGHTING SYSTEM COMPLETELY (LIGHT POLES, HIGH MAST LIGHT TOWERS, CONC
	WIRING, ETC.) AS SHOWN IN THE PLANS. THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICE FOR "REMOVE EXISTING LIGHTING SYSTEM."
14.	THE CONTRACTOR SHALL FURNISH AND INSTALL NEW FUSEHOLDERS, FUSES, SURGE ARRESTORS, AND LUMINAIRE WIRING INSIDE THE POLE. THE C
	PRICE OF THE PROPOSED LUMINAIRES.
15.	THE CONTRACTOR SHALL DISPOSE OF THE EXISTING LIGHT POLES, HIGH MAST LIGHT TOWERS, CONCRETE AND METAL FOUNDATIONS, LUMINAIRES,
	COST OF THESE ITEMS SHALL BE INCLUDED IN THE BID PRICES FOR "REMOVE EXISTING LIGHTING SYSTEM."
16.	COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC PUSHED OR TRENCHED.
17.	THE EXISTING LIGHTING SYSTEM SHALL REMAIN IN OPERATION UNTIL THE PROPOSED LIGHTING SYSTEM IS FULLY OPERATIONAL.
18	THE CONTRACTOR SHALL REMOVE EXISTING METAL HELIX FOUNDATIONS BY EXCAVATING 36", CUTTING THE FOUNDATION, AND BACKFILLING AS RE
	WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR "REMOVE EXISTING LIGHTING SYSTEM."
19	THE COST OF THE CONDUIT AND SERVICE CABLES, INCLUDING GROUNDING CABLE AND HARDWARE, FROM THE DISCONNECT TO THE LIGHTING CO
	PROPOSED ELECTRIC SERVICE.
20	THE CONTRACTOR SHALL REMOVE EXISTING CONCRETE LIGHT TOWER FOUNDATIONS IN ACCORDANCE WITH ARTICLE 895.05 OF THE STANDARD SP
	INCLUDED IN THE UNIT PRICE FOR "REMOVE EXISTING LIGHTING SYSTEM."
21	THE CONTRACTOR MAY ELECT TO INSTALL CONDUIT AND ELECTRIC WIRE IN LIEU OF UNIT DUCT AT NO ADDITIONAL COST TO THE DEPARTMENT.

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TALLATION OF ANY COMPONENTS. D. THE GENERAL CONTRACTOR SHALL ALSO BE LIABLE

ATION BEFORE INSTALLATION. CONTRACT UNIT PRICE FOR "UNIT DUCT, 600V, 2-1C AMPS, HARDWARE, ELECTRICAL CABLE, AND ALL OTHER

DBSTACLES SUCH AS UNDERGROUND UTILITIES. VORK SHALL BE INCLUDED IN THE UNIT PRICES FOR

ARISE FROM A FAILURE TO FULLY INVESTIGATE

NCRETE AND METAL FOUNDATIONS, LUMINAIRES,

COST OF THIS WORK SHALL BE INCLUDED IN THE

S, WIRING, ETC. OFF THE JOB SITE. THE SALVAGE

REQUIRED TO MATCH THE EXISTING GRADE. THIS

CONTROLLER SHALL BE INCLUDED IN THE COST OF THE

SPECIFICATIONS. THE COST OF THIS WORK SHALL BE

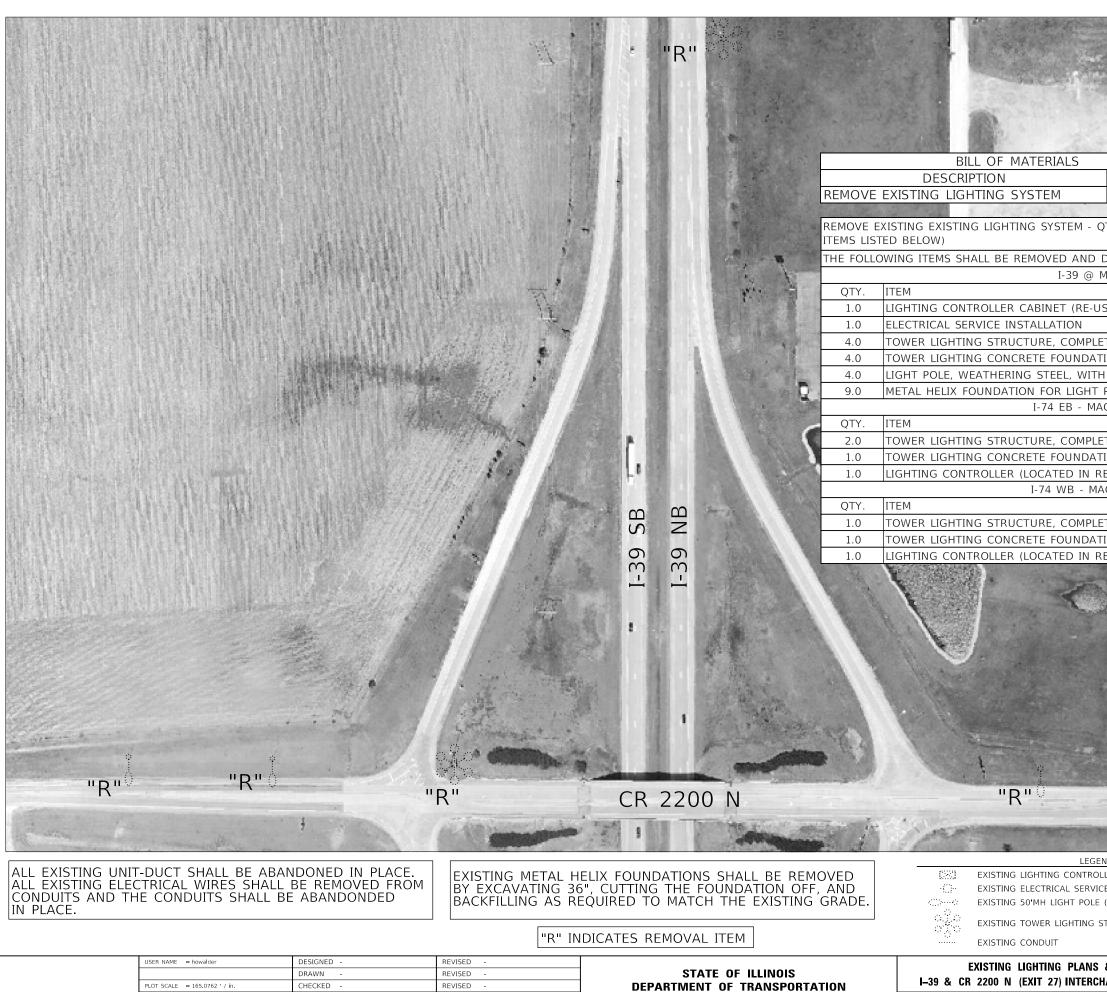
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	NOTES		39 / 74 (102-4;X3-16RA)L		WOODFORD	15	3		
_							CONTRACT	NO. 68	3G22
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A REVISED ENTIRE SHEET 4/1/21

	SUI	MMARY OF QUANTITIES			WOODFORD COUNTY CONST. TYPE CODE 0021 90% FEDERAL 10% STATE OVERHEAD LIGHTING	
CODE	IT	EM DESCRIPTION	UNIT	TOTAL QTY.	RURAL	ŝ
671001	DO MOBILIZATION		L SUM	1.0	1.0	
804001	DO ELECTRIC SERVICE INSTALLATION		EACH	1.0	1.0	
810283	50 UNDERGROUND CONDUIT, PVC, 2" DIA.		FOOT	615.0	615.0	
	50 UNDERGROUND CONDUIT, PVC, 2 1/2" DIA.		FOOT	70.0	70.0	
814007	00 HANDHOLE, PORTLAND CEMENT CONCRET	TE	EACH	1.0	1.0	
816030	40 UNIT DUCT, 600V, 2-1C NO.6, 1/C NO.8	GROUND, (XLP-TYPE USE), 1" DIA. POLYETHY	LENE FOOT	8664.0	8664.0	
821100	08 LUMINAIRE, LED, ROADWAY, OUTPUT DES	SIGNATION H	EACH	14.0	14.0	с ч
821100	09 LUMINAIRE, LED, ROADWAY, OUTPUT DES	10.0				
825003	30 LIGHTING CONTROLLER, PEDESTAL MOUN	1.0	1.0			
825004	30 LIGHTING CONTROLLER, WALL MOUNTED,	240VOLT, 100AMP	EACH	2.0	2.0	
830608	30 LIGHT POLE, GALVANIZED STEEL, 45 FT.	M.H., TENON MOUNT	EACH	24.0	24.0	e a e
836003	56 LIGHT POLE FOUNDATION, METAL, 15" BO	DLT CIRCLE, 8 5/8" X 6'	EACH	24.0	24.0	
	50 BREAKAWAY DEVICE, COUPLING WITH STA		EACH	96.0	96.0	~
X032554	1 REMOVE EXISTING LIGHTING SYSTEM 16 TRAFFIC CONTROL AND PROTECTION, (SP		LSUM	1.0	1.0	$\underline{1}$
x70102	16 TRAFFIC CONTROL AND PROTECTION, (SP	ECIAL)	LSUM	1.0	1.0	
X82104	D2 LUMINAIRE MOUNTING BRACKET - SPECIAL	L	EACH	24.0	24.0	NOT TO COME
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ION COMPLETE WITH HIGH MAST LUMINA	IRES	
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L, WITH HPS LUMINAIRE		
LIGHT POLE (SEE NOTE)		14 P. 19
B - MACKINAW DELLS REST AREA		
COMPLETE WITH HIGH MAST LUMINA	IRES	
UNDATION (PARTIAL REMOVAL IN AC		CLE 895.05)
D IN REST AREA BASEMENT)		
/B - MACKINAW DELLS REST AREA		1936
COMPLETE WITH HIGH MAST LUMINA	IRES	
UNDATION (PARTIAL REMOVAL IN AC		CLE 895.05)
D IN REST AREA BASEMENT)		
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CONTROLLER AND CONCRETE FOUNDATION		
AL SERVICE HT POLE (WEATHERING STEEL) AND METAL HE	LIX FOUNDATION	
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"R" INDICATES REMOVAL ITEM

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EXISTING TOWER LIGHTING STRUCTURE AND CONCRETE FOUNDATION

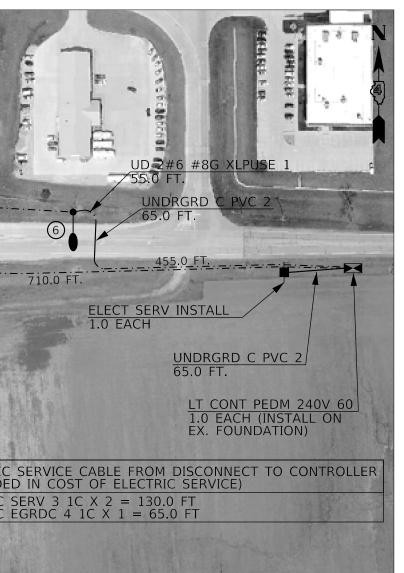
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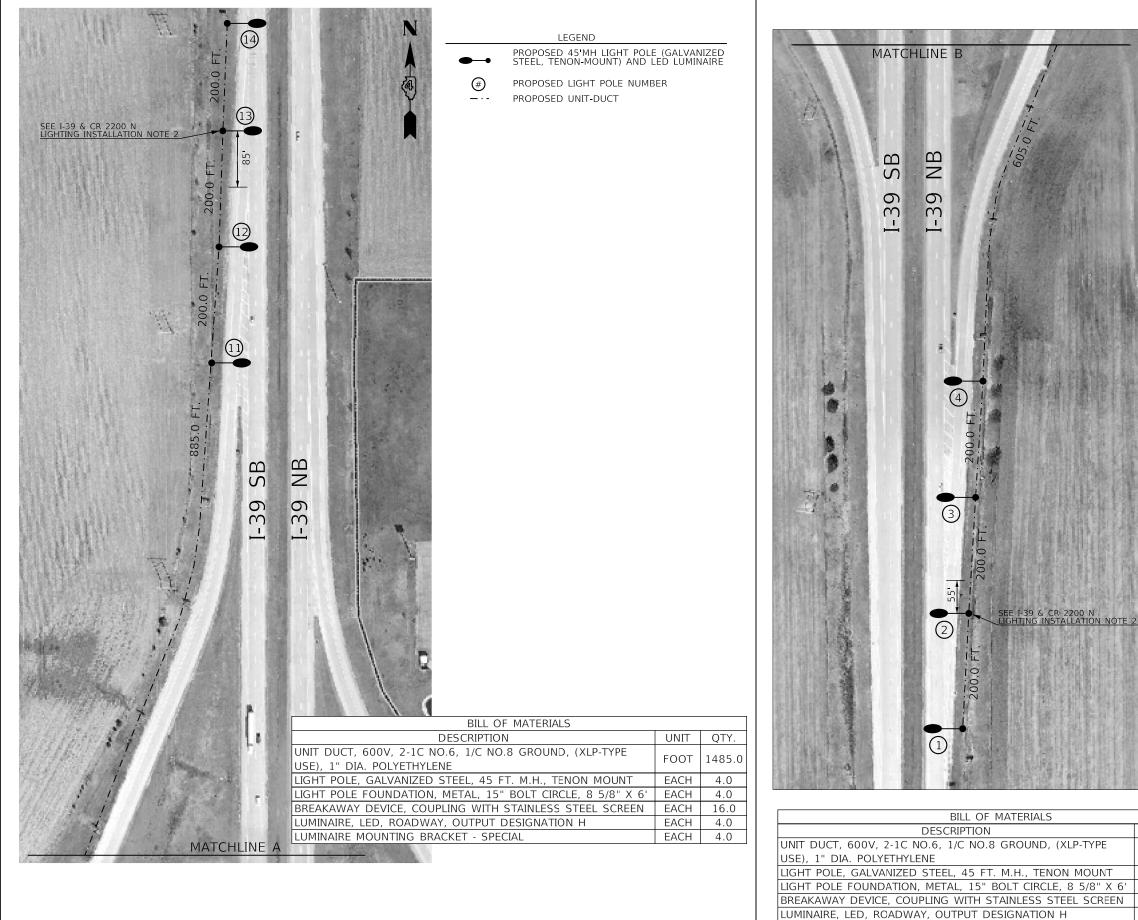
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3100 FT. 290.0 FT. 290.0 FT. 255.0 FT. 455.0 FT. 10 9 0 6 65.0 FT. 6 65.0 FT. 10 100 FT. 100 FT.<	RGRD C PVC 2 FT. CONT PEDM 240V 60 D EACH (INSTALL ON FOUNDATION) DNNECT TO CONTROLLER DNNECT TO CONTROLLER VICE) VICE VINIT QTY. EACH FOOT 410.0 FOOT FOOT A10.0 FOOT A10.0 FOOT A10.0 FOOT A10.0 FOOT FOAT A524.0 MP EACH X 6'
310.0 FT. 310.0 FT. → 310.0	



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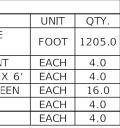
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LUMINAIRE MOUNTING BRACKET - SPECIAL

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PROPOSED 45'MH LIGHT POLE (GALVANIZED STEEL, TENON-MOUNT) AND LED LUMINAIRE \wedge

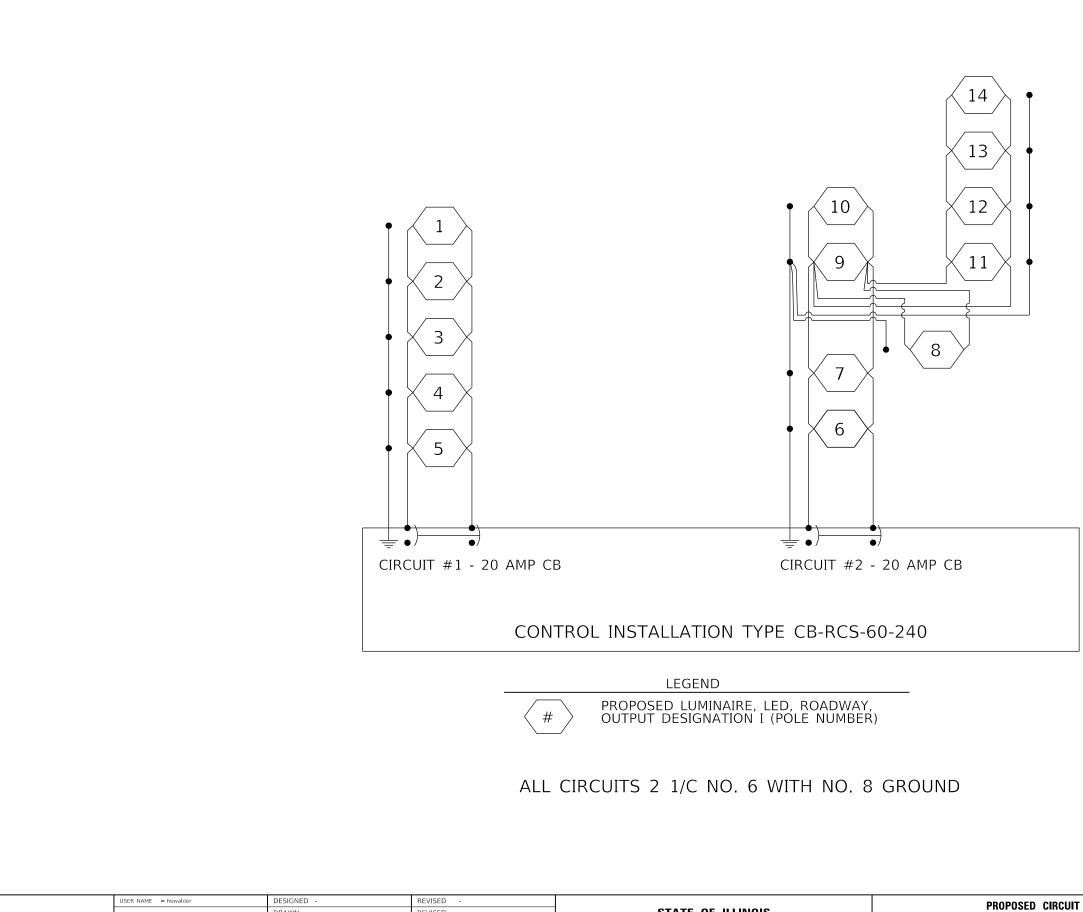
PROPOSED LIGHT POLE NUMBER PROPOSED UNIT-DUCT

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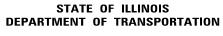
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NOTE: PERFORMANCE VALUES MAY BE ROUNDED UP TO ONE SIGNIFICANT DIGIT.



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Project Date	Contract Numbe	er	Section Nur	nber	С	ounty		
01/26/21	68G22		(102-4;X3			/oodford		
Marked Route N][(,,	Municipalit				
	ITY ROAD 220	00N			,			
Roadway	# of Lanes Me	dian Width		face Classif	ication O-2	Zero Value		
	3 N/		R3		0.0			
Structure Mounting Heigh 45 FT Luminaire		<u>Set-Back</u> 18 FT	Number of L (Highmast & N/A		ng Only)			
Description					ral Distribu	tion	I.E.S. Vertical Distribu	ition
LED, OUTPL	JT DESIGNA			Type IV			SHORT	
Total Light Loss	Factor (LLF)	B-U-G R	ating		Shields YES		Dimming Protoc	lo
0.1							0 101	
Performance Average Illumin ≥ 0.9	ance, E _{AVE} (fc)		niformity Ratio ≤ 3.0:1	O, EAVE/EMIN				
Average Lumina	ance, L _{AVE} (cd/m ²)	Uniformi	ty Ratio, Lave/	Lmin	Uniformit	y Ratio, Lmax/Lmin	Veiling Luminar	nce Ratio, L
0.6		3.5			N/A		< 0.3	
40 FT Notes 1. Set-Ba to the I 2. Lighting 3. Total L	<u>W (behind pole)</u> ck is from Edge o uminaire. g calculations sha ight Loss Factor (s" (EF) = 0.95.	< 0.2 fc f Pavemer II be perfo LLF) = the	rmed with all product of "L	except for s luminaires c umen Main	ign luminai priented tov tenance" (L	<pre>< 0.2 fc (A' res when it is ver vard and perpend LD) = 0.9, "Dirt D</pre>	Illuminance at ROW, Ex T 3 FT ABOVE GRA tical and horizontal dista dicular to the roadway. Depreciation" (LDD) = 0.8	ADE) nce from the 3, and "Equi
Factors	nance requirement en conditions liste	d above.			l in one	direction d	erformance for the lumin only. significant digit ne values the offer	

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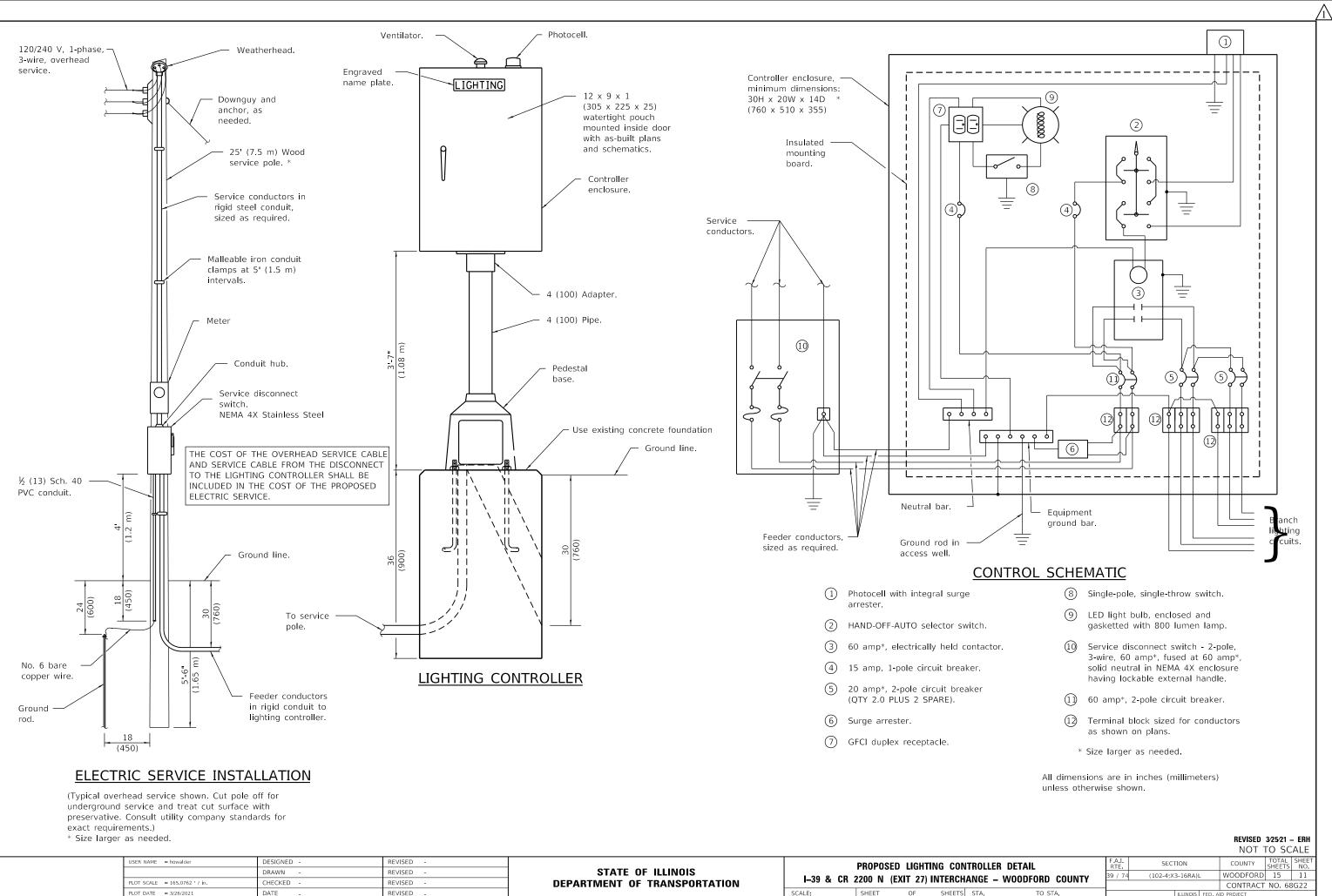
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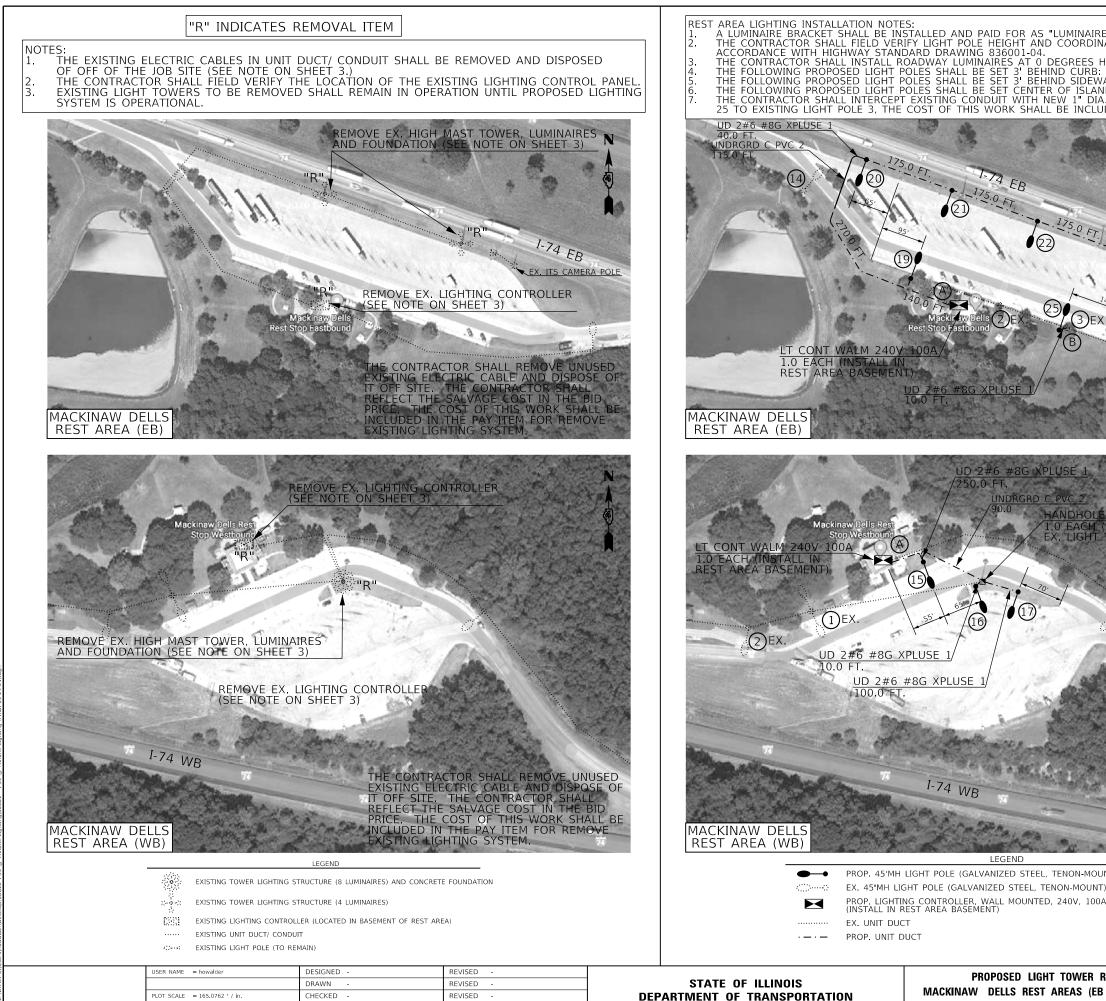
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PROPOSED LIGHT TOWER R MACKINAW DELLS REST AREAS (EB SCALE SHEET OF

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(16)

I-74 WB

LOT DATE = 3/26/2021

DATE



GHTING CONTROLLER, WALL MOUNTED, 240VOLT, 100AMP EACH 2.0 IGHT POLE, GALVANIZED STEEL, 45 FT. M.H., TENON MOUNT EACH 10.0 IGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8" X 6' EACH 10.0 BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN EACH 40.0 UNCTION BOX (SPECIAL) EACH 1.0 UMINAIRE MOUNTING BRACKET - SPECIAL EACH 10.0

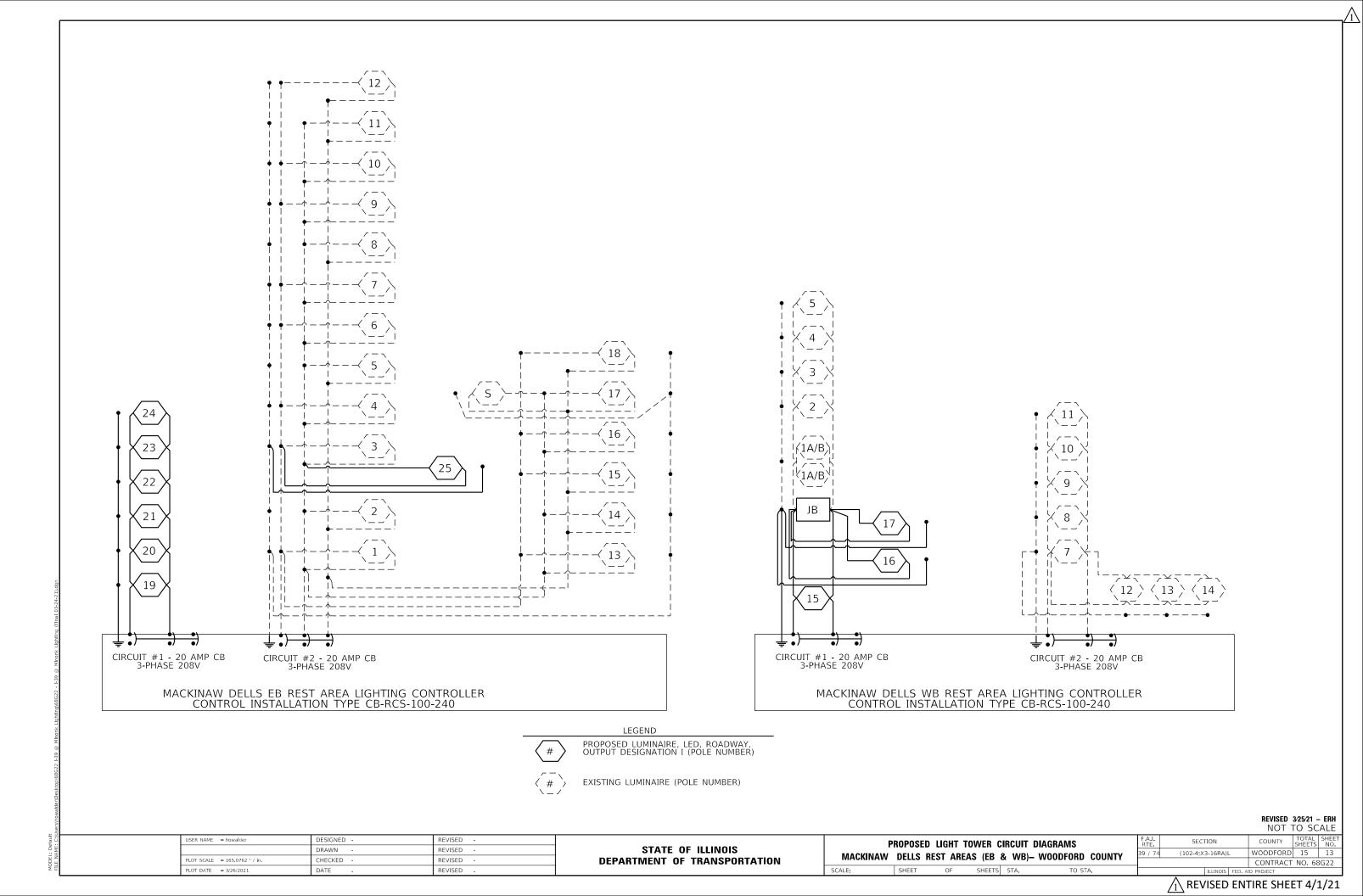
PROP. 45 MH LIGHT POLE (GALVANIZED STEEL, TENON-MOUNT) AND LED LUMINAIRE

EX. 45'MH LIGHT POLE (GALVANIZED STEEL, TENON-MOUNT) AND LED LUMINAIRE

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NOTE: PERFORMANCE VALUES MAY BE ROUNDED UP TO ONE SIGNIFICANT DIGIT.



Luminaire Performance Table

Date	Contract Nu	mber	Section Nu	ımber	Cour	nty	
01/26/21	68G22		(102-4;X	3-16RA)L	Woo	odford	
Marked Route	Number			Municipality			
I-74 & MAC	KINAW DEL	LS REST /	AREA				
Roadway							
Lane Width	# of Lanes	Median Widt	h I.E.S. Su	rface Classific	ation_Q-Zer	o Value	
18 Ft.	1	N/A	R3		0.07		
Structure			Number of				
	ght Arm Length			& Sign Lighting	g Only)		
45 FT	2 FT	30 FT	N/A				
Luminaire							
Description				I.E.S. Latera	al Distributio		.S. Vertical Distribution
LED, OUTF	PUT DESIG	NATION I		Type III		M	EDIUM
Total Light Lo	ss Factor (LLF)	B-U-G F	Rating		Shields		Dimming Protocol
0.7		U =0			N/A		0-10V
Average Illum	e inance, E _{AVE} (fc	·	Uniformity Rat	tio, Eave/Emin			_
Average Illum ≥ 1.1	inance, E _{AVE} (fc		≤ 3.0:1		Uniformity R		Veiling Luminance Rat
Average Illum ≥ 1.1 Average Lumi N/A	inance, E _{AVE} (fc			E/Lmin	Uniformity R N/A	atio, Lmax/Lmin	Veiling Luminance Rat ≤ 0.3
≥ 1.1 Average Lumi N/A Light Tress Distance to R N/A Notes 1. Set-E to the 2. Light 3. Total Facto 4. Perfor the g 5. Light 6. Cor 7. Initi	inance, EAVE (fc inance, LAVE (cd/ pass OW (behind pol buminaire. ing calculations Light Loss Fac ors" (EF) = 0.95 ormance require iven conditions nting_calcu al_lumens	(m ²) Uniform N/A (N/A)	≤ 3.0:1 hity Ratio, Lave ity Ratio, Lave contal Illumin ent (white line) ormed with all e product of " be the minimu hall be pr rmance of rmance of	Amn Amnce at ROW) except for sig I luminaires or Lumen Mainte m acceptable erformed riteria sh luminaire	N/A , E _H gn luminaires iented towar nance" (LLC standards of in one d all be he may var	Max. Vertical Illum N/A when it is vertical a d and perpendicula 0) = 0.9, "Dirt Depre photometric perfor irection only. eld to one sig y from the y	≤ 0.3 inance at ROW, Ev and horizontal distance fro r to the roadway. ciation" (LDD) = 0.8, and " mance for the luminaire, b

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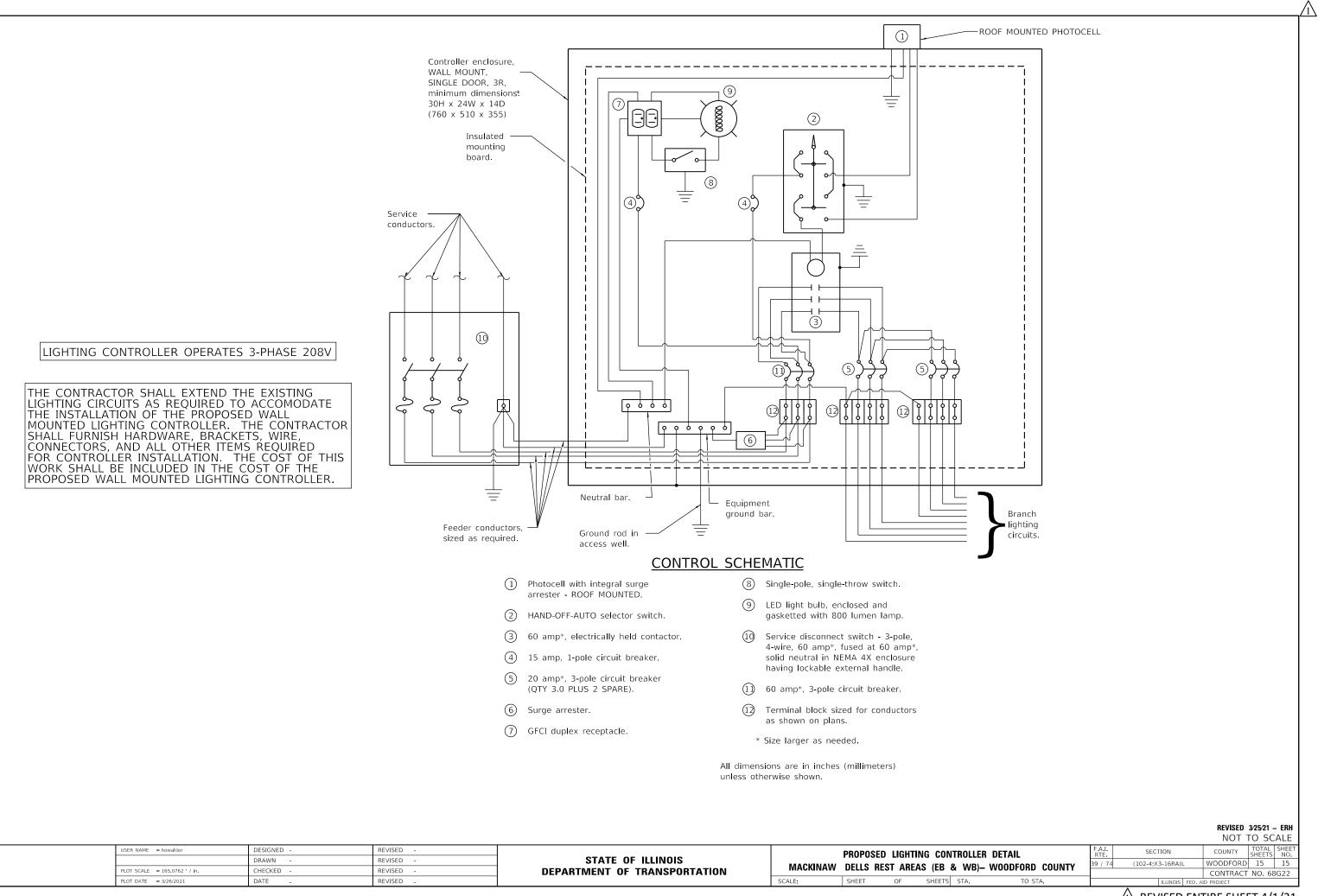
BDE 5650 (04/10/19)

												NOT TO SCALE
USER NAME = howalder	DESIGNED -	REVISED -		PI	RUBUCED		RE PERF	FORM	ANCE TABLES	F.A.I. BTE	SECTION	COUNTY TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	PROPOSED LUMINAIRE PERFORMANCE TABLES		39 / 74	(102-4;X3-16RA)L	WOODFORD 15 14				
PLOT SCALE = 165.0762 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	MACKINAW	MACKINAW DELLS REST AREAS (EB & WB)- WOODFORD COUNTY			(CONTRACT NO. 68G22			
PLOT DATE = 3/26/2021	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.					ILLINOIS FED.	AID PROJECT		
										-		

REVISED 3/25/21 - ERH

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Λ REVISED ENTIRE SHEET 4/1/21



USER NAME = howalder	DESIGNED -	REVISED -			PROPOSED	ПСНТІМ	
	DRAWN -	REVISED -	STATE OF ILLINOIS				
PLOT SCALE = 165.0762 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	MACKINAW	DELLS RES	T AREAS	S (ER S
PLOT DATE = 3/26/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS

1 REVISED ENTIRE SHEET 4/1/21