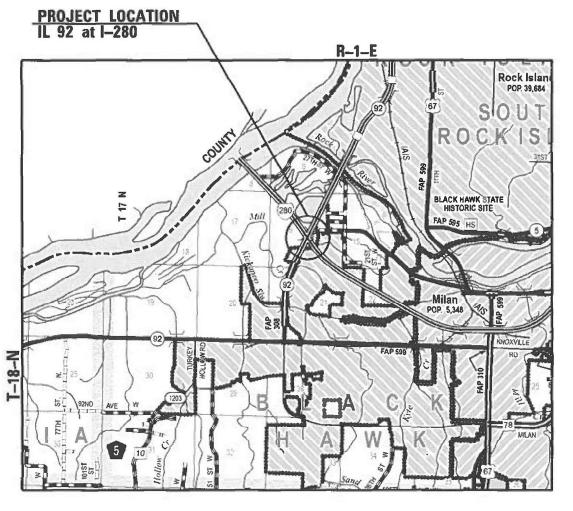
FOR INDEX OF SHEETS & STATE STANDARDS SEE SHEET NO. 2

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS**

PROPOSED HIGHWAY PLANS

F.A.I. ROUTE 280 (I-280) SECTION (81-1-1)HL PROJECT: NHPP-JBM5(315) **ROCK ISLAND COUNTY** C-92-045-19



LOCATION OF SECTION INDICATED THUS: -

FAI RTE, SECTION COUNTY
280 1-280 181-1-1ML ROCK ISLAND

D-92-033-19

CONTRACT NO. 64N68

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

December 9, 202

ENGINEER OF DESIGN AND ENVIRONMENT

December 9, 2022

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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

CONTRACT NO. 64N68

FAI 280 1-280 SECTION (81-1-1)HL

ROCK ISLAND COUNTY

(815) SCOTT

J.U.L.I.E.

INDEX OF SHEETS

- 1. COVER SHEET
- 2. INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES
- 3. SCHEDULE OF QUANTITIES
- 4. LIGHTING REMOVAL PLAN IL 92 AT I-280
- 5. PROPOSED LIGHTING PLAN IL 92 AT I-280
- 6. PROPOSED LIGHTING PLAN IL 92 AT I-280
- 7. PROPOSED LIGHTING WIRING DIAGRAMS IL 92 AT I-280
- 8. LUMINAIRE PERFORMANCE TABLE

LEGEND



PROPOSED ROADWAY LIGHTING UNIT, 40' M.H., LED HORIZONTAL MOUNT 240V LUMINAIRE, BREAKAWAY COUPLINGS ON 6' METAL FOUNDATION WITH POLE SETBACK OF 30' FROM EDGE OF PAVEMENT, UNLESS NOTED OTHERWISE.



PROPOSED LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240V.



PROPOSED UNIT DUCT, SIZE AS NOTED.



EXISTING LIGHTING UNIT AND FOUNDATION TO BE REMOVED (POLE NUMBER NOTED).



EXISTING SIGN LIGHTING UNIT TO BE REMOVED

UNDERGROUND CONDUIT CASING, CNC, 2" DIA.



EXISTING LIGHTING CONTROLLER TO BE REMOVED.

STATE STANDARDS

701101-05	OFF-ROAD OPERATIONS, MULTILANE. 15' TO 24" FROM PAVEMENT EDGE
701400-11	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701406-13	LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP FOR SPEEDS > 45 MPH OR MORE
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS > 45 MPH
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-08	TRAFFIC CONTROL DEVICES
821101-02	LUMINAIRE WIRING IN POLE
825011-04	LIGHTING CONTROLLER PEDESTAL MOUNTED, 240V
830011-03	LIGHT POLE STEEL MAST ARM
836001-04	LIGHT POLE FOUNDATION
838001-01	BREAKAWAY DEVICES

GENERAL NOTES

- 1. NO WORK SHALL BE ALLOWED UNTIL ALL COMPONENTS TO COMPLETE THE LIGHTING SYSTEM HAVE BEEN DELIVERED.
- 2. EXISTING LIGHTING TO BE REMOVED SHALL REMAIN UNTIL PROPOSED LIGHTING SYSTEM IS OPERATIONAL.
- 3. INSTALL NEW UNIT DUCT IN UNDERGROUND CASING UNDER THE ROADWAY AS SHOWN ON PLANS.
- 4. PROPOSED OFFSETS ARE A NOMINAL 30' FROM EDGE OF LANE, ENGINEER WILL DETERMINE EXACT LOCATIONS.
- 5. SIGNS ATTACHED TO LIGHT POLES SHALL BE REMOVED, PRESERVED AND REINSTALLED. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR REMOVAL OF THE LIGHTING UNIT, NO SALVAGE.
- 6. CALL JASON DALE, IOWA DOT, 515-239-1995 TWO WEEKS PRIOR TO CONSTRUCTION FOR A LOCATE OF ELECTRIC FEED FOR EXISTING CCTV POLE ON WEST SIDE OF IL 92.
- 7. THE FINISH EARTHWORK SHALL HAVE A VEGETATION-SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED. THIS SOIL WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE LIGHTING PAY ITEMS.

USER NAME = Kristine Hill	DESIGNED -	REVISED -			FAL	TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	INDEX OF SHEETS, HIGHWAY STANDARDS,	RTE SECTION	COUNTY SHEETS NO.
PLOT SCALE = 102 8342 1 / 10	CHECKED .	REVISED -	DEPARTMENT OF TRANSPORTATION	LEGEND AND GENERAL NOTES	_289(81:1:1)HL	ROCK ISLAND 8 Z
PLOT DATE	DATE .	REVISED -	DEL ATTIMENT OF THANGS ON LATION	SCALE SHEET OF SHEETS STA. TO STA.		CONTRACT NO. 64N68
				SCHOOL STREET OF STREETS STA. 10 STA.	ILLINOIS FED AIR	D PROJECT

SCHEDULE OF QUANTITIES

0021 URBAN 90% FED 10% STATE

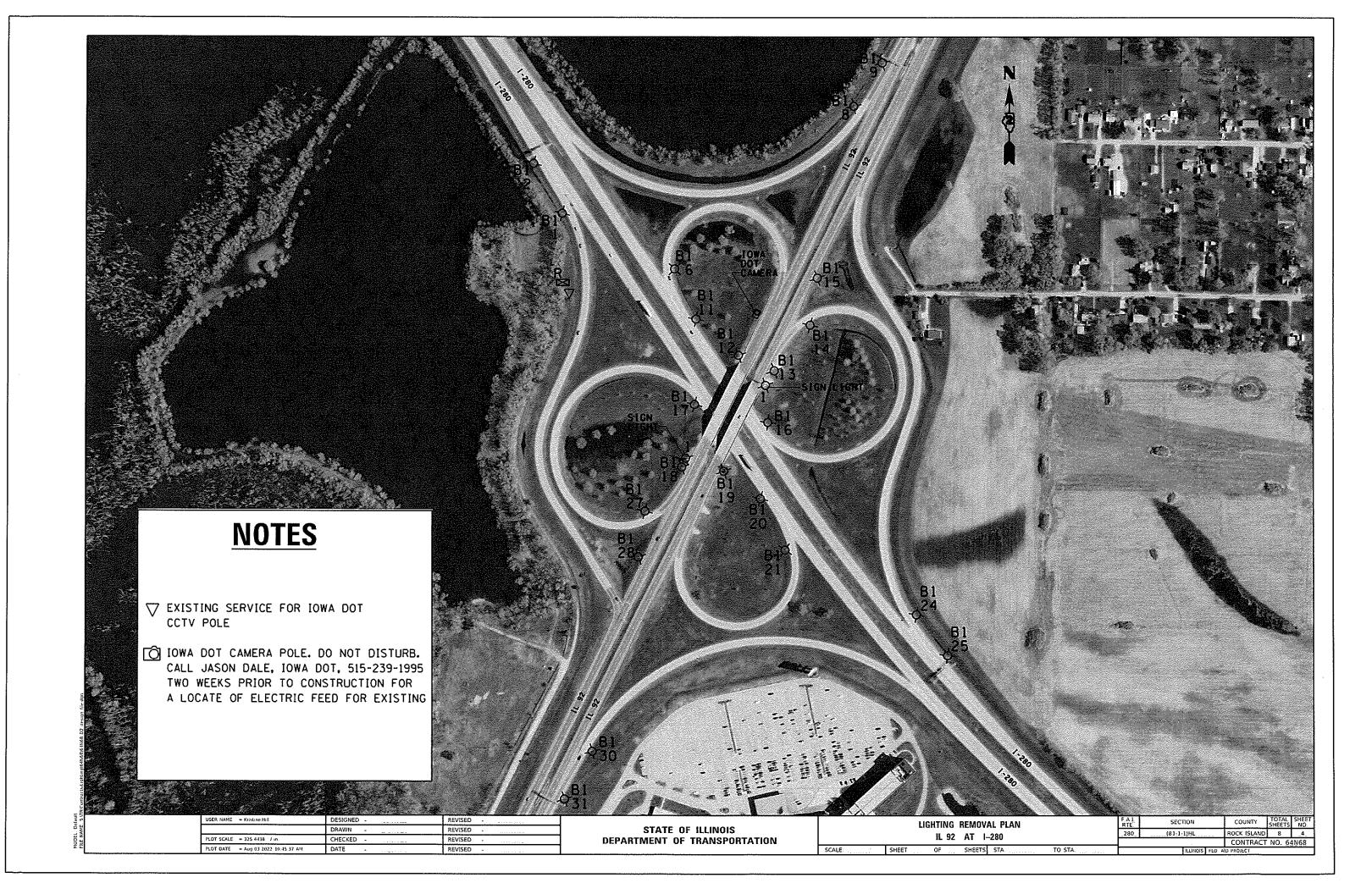
CODE NO.	ITEM	UNIT	TOTAL
67100100	MOBILIZATION	L SUM	1
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	6
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1
81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	815
81603000	UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	8460
81603010	UNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	2220
82110008	LUMINAIRE, LED, ROADWAY, OUTPUT. DESIGNATION H	EACH	24
82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1
83060340	LIGHT POLE, GALVANIZED STEEL, 40 FT. M.H., 12 FT. MAST ARM	EACH	24
83600356	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8" X 6"	EACH	24
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SCREEN	EACH	96
84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	22
84200804	REMOVAL OF POLE FOUNDATION	EACH	22
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	8460
X8420506	REMOVAL OF EXISTING SIGN LIGHTING UNIT WITH NO SALVAGE	EACH	2
x2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.8

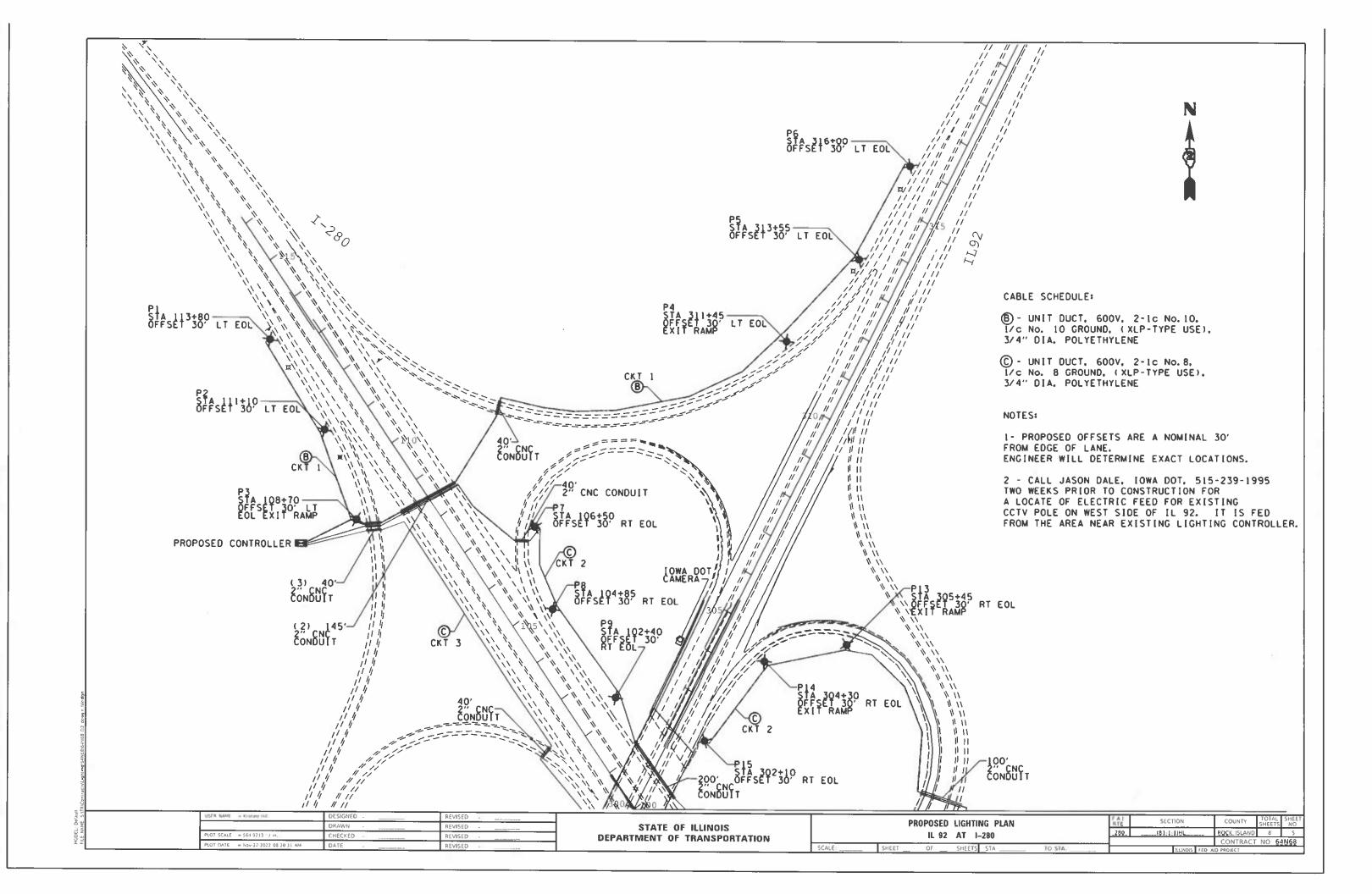
• SPECIALTY ITEMS

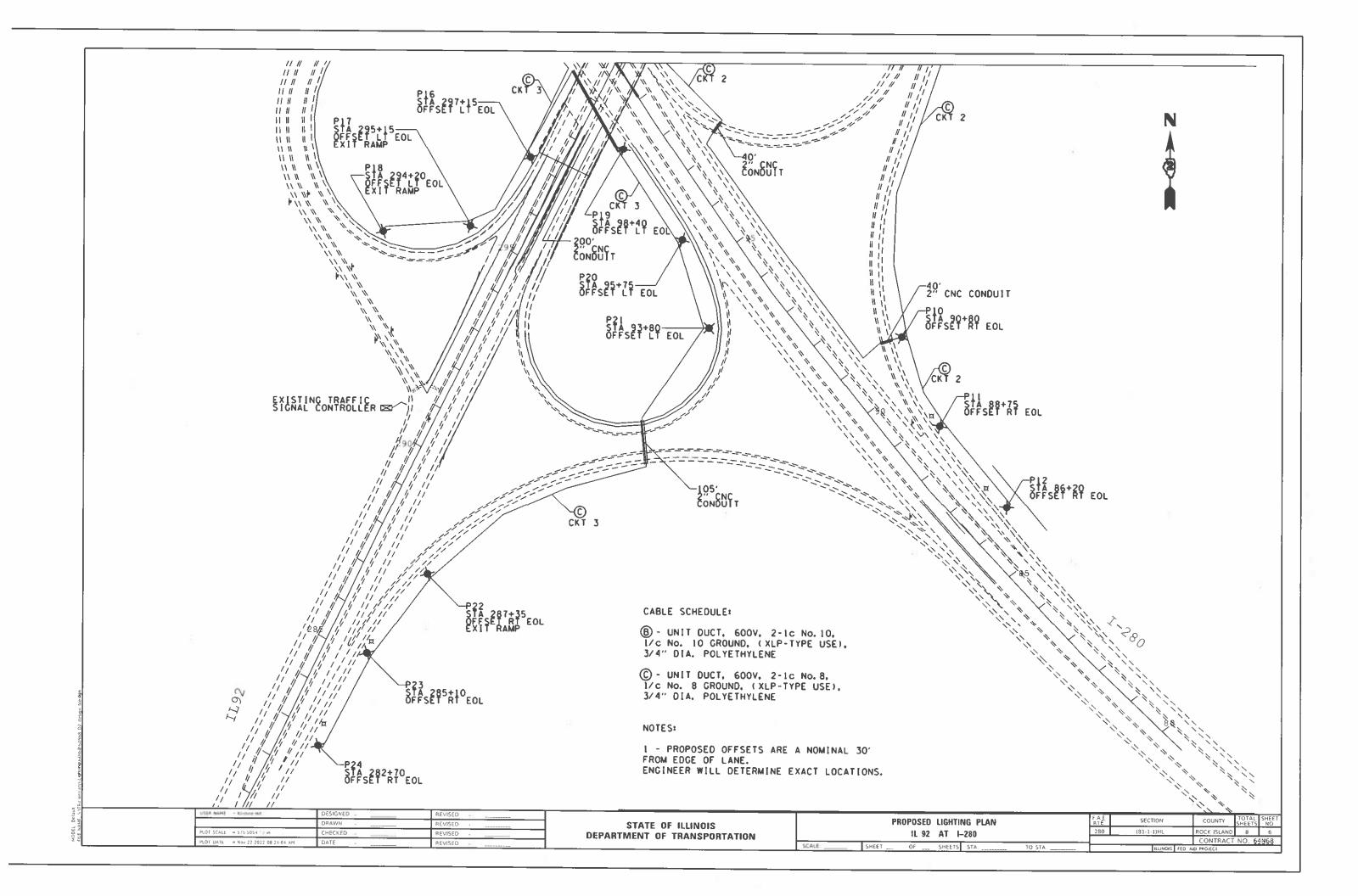
USER HAME -> Kristine Hill	DESIGNED -	REVISED -
	DRAWN	REVISED -
PLOT SCALE = 104 3371 / In	CHECKED -	REVISED
PLOT DATE = Aug-03-2022 10:44 54 AM	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	so	HEDULE	OF QUA	ANTITIES	
		IL 92	AT I-	28D	
SCALE:	SHEET	OF	SHEETS	STA	TO STA

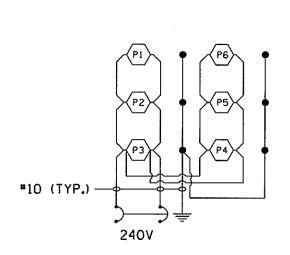




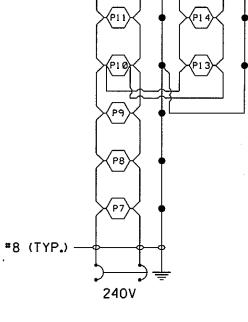


PROPOSED LIGHTING WIRING DIAGRAMS

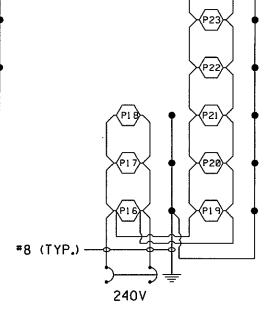
PROPOSED LIGHTING CONTROLLER
IL-92 AT I-280
240V



2 POLE 30 AMP BREAKER CKT #1



2 POLE 30 AMP BREAKER CKT #2



2 POLE 30 AMP BREAKER CKT #3

LEGEND

- (1) PROPOSED LED LUMINAIRE. NUMBER INSIDE CIRCLE INDICATES FIXTURE NUMBER.
- ☐ GROUND ROD
- PROPOSED CABLE (SIZE AS NOTED)

NOTES

1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

USER NAME = Kristine Hill	DESIGNED -	REVISED -		PROPOSED LIGHTING WIRING DIAGRAMS	F.A.J.	SECTION	COUNTY	TOTAL	SHEET
	DRAWN	REVISED .	STATE OF ILLINOIS		280	(81-1-1)HL	ROCK ISLAND	8	7
PLOT SCALE = 103 8500 ' / in	CHECKED	REVISED +	DEPARTMENT OF TRANSPORTATION	IL 92 AT 1-280			CONTRACT	T NO. 64	N68
PLOT DATE = Aug-03-2022 10.46.50 AM	DATE	REVISED -	1	SCALE: SHEET OF SHEETS STA TO STA		ILUNOIS FED. A	ID PROJECT		

MODEL Detault

PROJECT										
DATE CONTRACT NUMBER SECTION N				IMBER	cou	NTY				
6/1/2020	64N68 (81-1			1-1) HL ROCK I SLAND						
MARKED ROUTE	NUMBER			MUNI CI PALI	[TY					
	80			ROCK ISLA	AND					
ROADWAY										
LANE WIDTH	OF LANES	MEDIAN WIE	TH I.E.S SUF	RFACE CLASS	IFI CATION	3-ZERO VALUE				
12	2	N/A	R3		0.0	7				
STRUCTURE MOUNTING HELD	HT ARM LENGT	'H SET BAC	NUMBER OF	LUMINAIRES & SIGN LIGH	HTING ONLY)					
40 FT	12 FT	30 FT	N/A	<u> </u>						
LUM! NA! RE										
DESCRIPTION				1	TERAL DISTE	RIBUTION	I.E.S. VEF	RTICAL DIS	STRIBUTION	
LED, ROADWAY	. UUTPUT UES	SIGNATION H		TYPE III			MED[UM			***************************************
TOTAL LIGHT L	OSS FACTOR (LLF) BUG RA	ATI NG		SHI ELDS	***************************************	DI MMI	NG PROTO	COL	
0. 684		U = 6	9		N/A		0-18)V		
LAYOUT										
SPACING (TO N	EAREST 5 FT)	CONFI GURA	TION (OPPOSET	E. STAGGERE	ED , 1 SI OEO	OR MEDIAN)				
230 FT		SINGLE SIDE	D							
PERFORMANCE										
AVERAGE LLUM	I NANCE. EAVE	(FC)	UNIFORMITY RA	TIO. EAVE /	EMIN					
0.6			3. 0							
AVERAGE LUMIN	ANCE, LAVE (C	D/M²) UNI FOR	RMITY RATIO. L	AVE /LMIN	UNI FORMI TY	RATIO, LMAX /L	——— Min VEILI	ING LUMIN	ANCE RATIO, I	Ly /LMIN
N/A		N/A			N/A		0. 4:			
LIGHT TRESSE	PASS									
DISTANCE TO R		POLE) MAX. P	KORIZONTAL [LL	.UMI NANCE A	T ROW, E	MAX. VERTICAL	L ILLUMINAN	CE AT ROW	. Е	
N/A		N/A				N/A				
NOTES						JL			J	
1. SET BA	ACK IS FROM I			LINE) EXCEF	PT FOR SIGN	LUMI NAI RES WHE	EN IT IS VE	RTICAL AN	D HORI ZONTAL	DISTANCE
2. LIGHTI	NG CALCULAT	ONS SHALL	BE PERFORMED	WITH ALL LL	JMI NAI RES O	RIENTED TOWARD	AND PERPEN	DI CULAR T	O ROADWAY.	
	LIGHT LOSS I			CT OF LUME	EN MAINTENA	NCE" (LLD) = 0.	.9, •DIRT D	EPRECI ATI	ON" (LDD) =	Ø. 8, AND
	RMANCE REOULI ON THE GIVE			I MUM ACCEPT	TABLE STAND	ARDS OF PHOTOME	ETRIC PERFO	RMANCE FO	R THE LUMINA	[RE.
CALCULATI ONS	SHALL BE PE	RFORMED WIT	TH 2 LANES IN	ONE DIRECT	ION ONLY					

INITIAL LUMENS MAY EXCEED THE VALUES GIVEN IN TABLE IN ART. 1067.06 OF THE PROJECT SPECIAL PROVISIONS "LUMINAIRE, LED (BDE)" (25, 200 LUMENS).

REVISED .

REVISED -

REVISED

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PERFORMANCE CRITERIA SHALL BE HELD TO ONE SIGNIFICANT DIGIT.

DESIGNED -

CHECKED -

DRAWN

DATE

USER NAME - Kristing Hill

PLOT SCALE = 104 8550 ' / or

PLOT DATE # Aug-03-2022 10.46 57 AM

LUMINAIRE

PERFORMANCE TABLE

MODEL Default