01-16-2026 LETTING ITEM 122

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

D-97-002-25

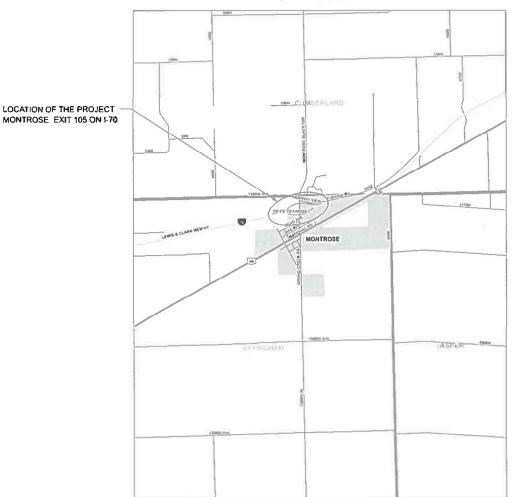
70 D7 HIGHWAY LIGHTING 2025-1 EFFINGHAM 9

ILLINOIS CONTRACT NO. 74D37

PROPOSED HIGHWAY PLANS

FAI ROUTE (70) **D7 HIGHWAY LIGHTING 2025-1 PROJECT NHPP-DJVH (958) REMOVE AND REPLACE LIGHTING EFFINGHAM COUNTY**

C-97-002-25



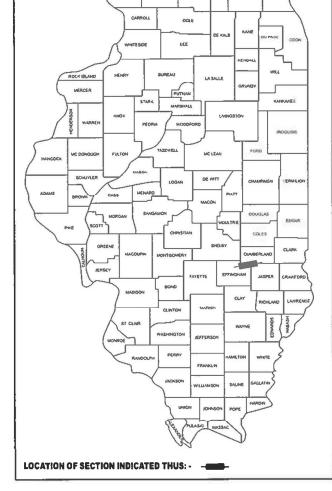
GROSS LENGTH = 2112 FT. = 0.4 MILE NET LENGTH = 2112 FT. = 0.4 MILE

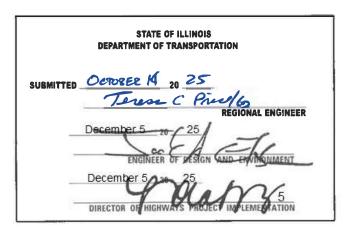
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER ROBERT GREUEL PROJECT MANAGER DEWAYNE SEACHRIST

CONTRACT NO. 74D37





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

ELECTRICAL WORK SHALL CONFORM TO NATIONAL, STATE, AND LOCAL CODES.

CONTRACTOR SHALL COORDINATE WITH AMEREN ILLINOIS CONSTRUCTION AND ENGINEERING SERVICES AT 1-888-659-4540 FOR ELECTRIC SERVICE INSTALLATION.

THE CONTRACTOR SHALL SET LIGHT POLES 18' BEHIND EDGE OF PAVEMENT (WHITE LINE) OR AS DIRECTED BY ENGINEER.

A DEPTH OF FORTY-EIGHT INCHES (48") OR GREATER FOR ALL UNDERGROUND UITILITIES SHALL BE MAINTAINED WITHIN ACCESS-CONTROLLED RIGHT OF WAY UNLESS CROSSING A WATERWAY WHERE THE MINIMUM ALLOWED DEPTH SHALL BE SIXTY INCHES (60") BELOW THE FLOW LINE ELEVATION OF THE WATERWAY.

UTILITIES INSTALLED NEAR BRIDGE STRUCTURES SHALL BE A MINIMUM OF SEVENTY-FIVE FEET (75') BEYOND THE **BRIDGE ABUTMENT LOCATION.**

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MOWING, BRUSH AND SHRUB REMOVAL AND SHALL DISPOSE OF ALL REMOVED ITEMS OFF THE JOB SITE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE BID PRICE FOR THE REMOVAL OF LIGHTING UNIT, NO SALVAGE.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES (100 MILLIMETERS) IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE BID PRICE FOR THE REMOVAL OF POLE FOUNDATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING EXISTING IDOT ELECTRICAL FACILITIES AT HIS/HER OWN EXPENSE IF REQUIRED. THE CONTRACTOR SHALL ALSO BE LIABLE FOR ANY DAMAGE TO IDOT FACILITIES RESULTING FROM INACCURATE LOCATING.

THE CONTACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

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 LIGHTING UNIT, NO SALVAGE.

ONCE CABLE IS REMOVED FROM UNIT DUCT IT SHALL BECOME THE CONTRACTOR'S PROPERTY.

INDEX OF SHEETS

- 1 COVER SHEET
- 2 GENERAL NOTES, HIGHWAY STANDARDS, INDEX OF SHEETS
- **SUMMARY OF QUANTITIES**

838001-01 BREAKAWAY DEVICES

- **ENVIRONMENTAL PLAN**
- LIGHTING PLAN
- WIRING DIAGRAM AND LUMINAIRE PERFORMANCE TABLE

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

NUMBER	DESCRIPTION
000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5m) AWAY
701006-05	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5m) TO 24" (600 MM) FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5m) AWAY
701400-12	APPROACH TO THE 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
701456-05	PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-11	TRAFFIC CONTROL DEVICES
821101-03	LUMINAIRE WIRING IN POLE
825011-04	LIGHTING CONTROLLER, PEDSTAL MOUNTED, 240V
830006-05	LIGHT POLE ALUMINUM DAVIT ARM

SER NAME = robert.greuel DESIGNED -REVISED -DRAWN REVISED -CHECKED REVISED PLOT DATE = 10/14/2025

STATE OF ILLINOIS

GENERAL NOTES, HIGHWAY STANDARDS, INDEX OF SHEETS OF 1 SHEETS STA. TO STA SHEET 1

70 D7 HIGHWAY LIGHTING 2025-1 EFFINGHAM CONTRACT NO. 74D37

					CONSTR. CODE
		SUMMARY OF QUANTITIES			90% FED 10% STATE
					SAFETY
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0021 RURAL
		1			7.07.2.12
k	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	57	57
k	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2
k	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
		NEGOTIVE GOVERNMENT DIV	2 00	·	
k	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1
k	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	2	2
	67100100	MOBILIZATION	L SUM	1	1
	70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	2	2
	70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	LSUM	1	1
	70100700	THAT TO CONTROL AND TROTECTION, STANDARD 701400	L SOW	'	'
	70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1	1
	70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1
	80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1
	81028750	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2" DIA.	FOOT	500	500
	81603000	UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	5402	5402

82110007	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G
02110007	LOWINAIRE, LED, ROADWAT, OUTFOT DESIGNATION G
82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AN
83003600	LIGHT POLE, ALUMINUM, 45 FT. M.H., 15 FT. DAVIT ARM
83600356	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 8 5/8" X 6
83800650	BREAKAWAY DEVICE, COUPLING WITH STAINLESS STEEL SC
84200605	REMOVAL OF LIGHTING TOWER, NO SALVAGE
84500110	REMOVAL OF LIGHTING CONTROLLER
84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT
X2501000	SEEDING, CLASS 2 (SPECIAL)
X8420510	REMOVAL OF TOWER FOUNDATION
Z0033024	MAINTAIN EXISTING LIGHTING SYSTEM

SCALE:

CODE

NO.

SUMMARY OF QUANTITIES

ITEM

* SPECIALTY ITEM

REV - MS

CONSTR. CODE

SAFETY

0021

RURAL

17

17

17

68

4

1

2720

0.25

4

TOTAL

QUANTITY

17

1

17

68

1

1

2720

0.25

4

1

UNIT

EACH

EACH

EACH

EACH

EACH

EACH

EACH

EACH

EACH

FOOT

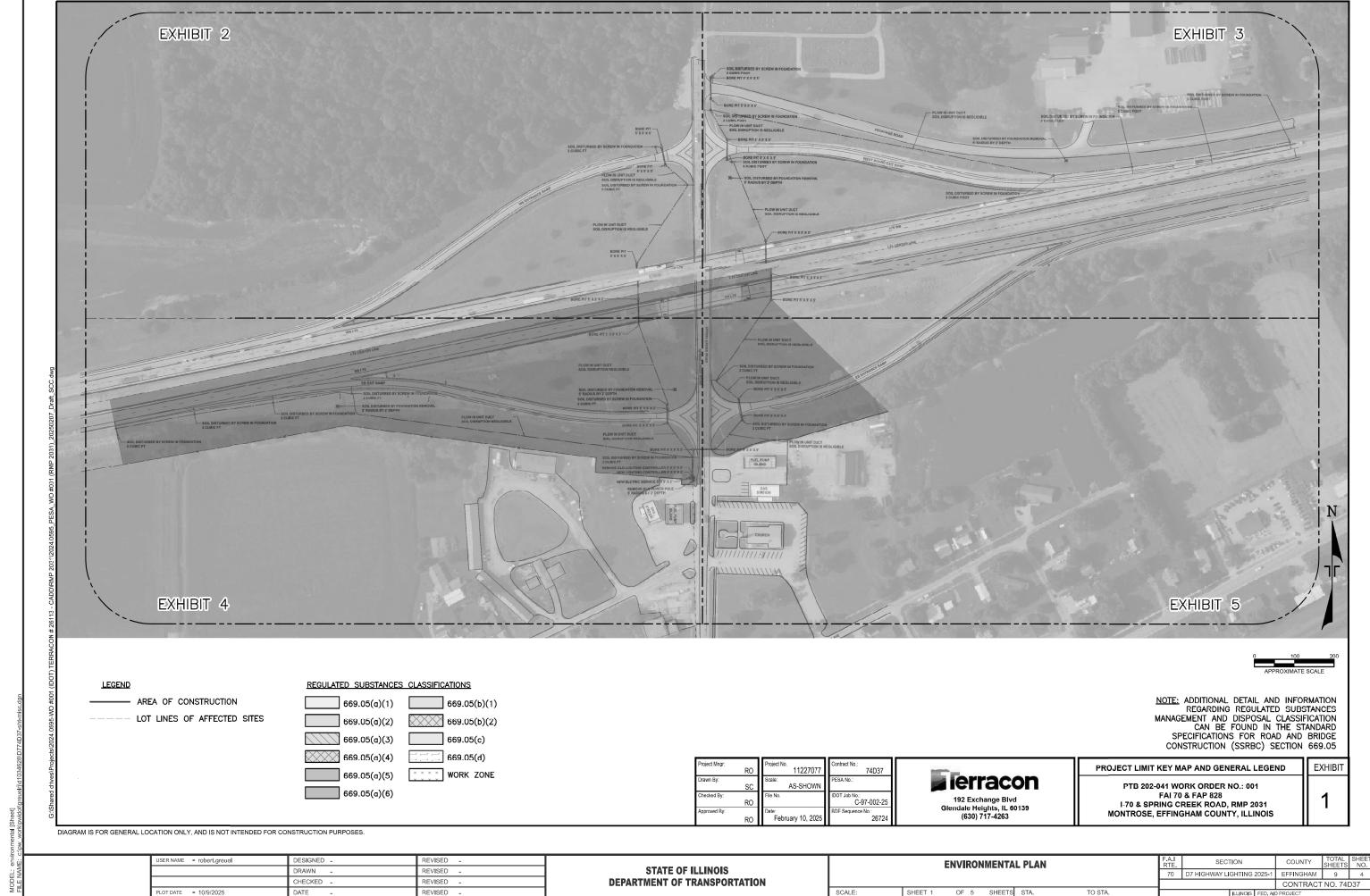
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EACH

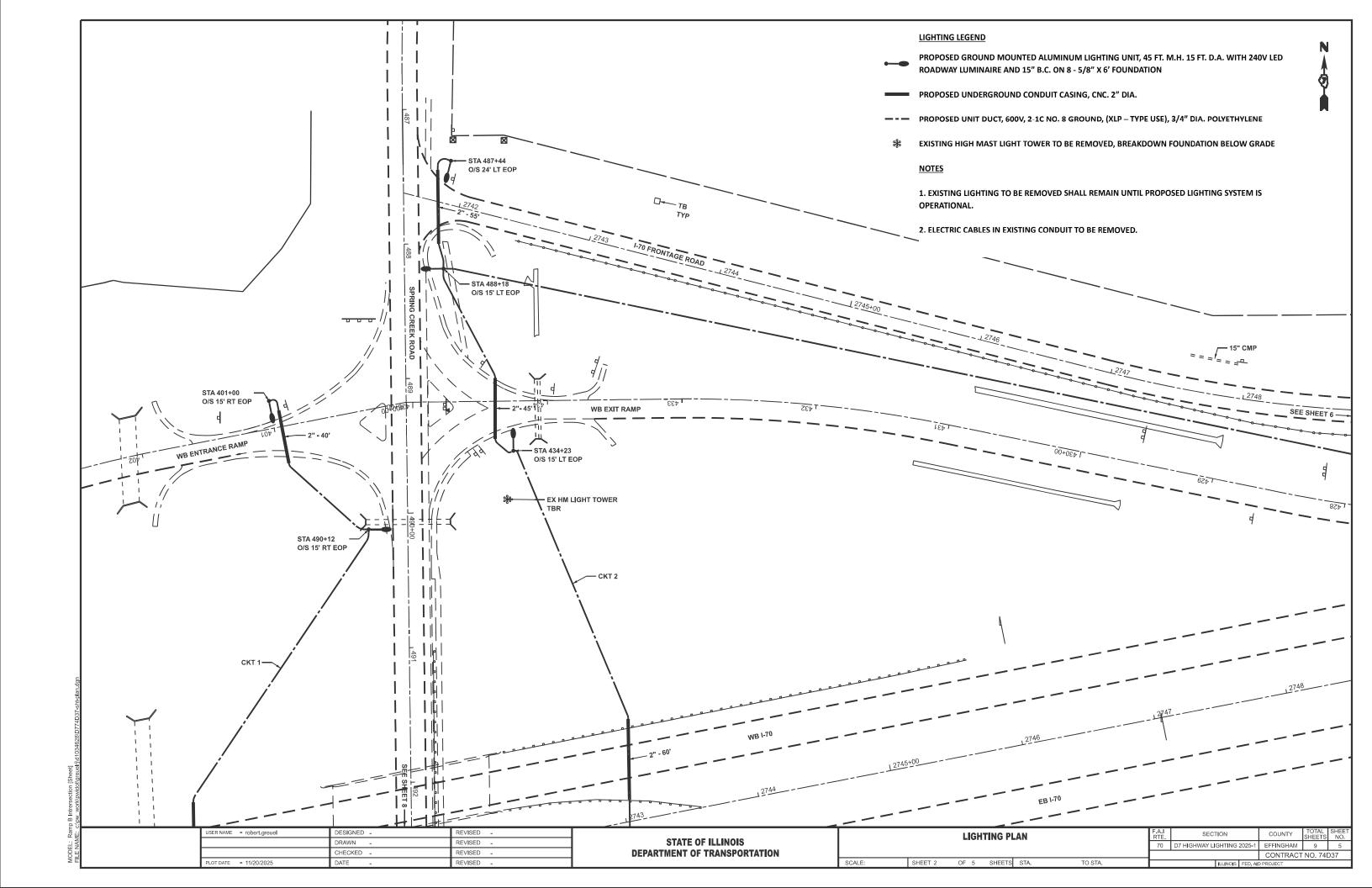
LSUM

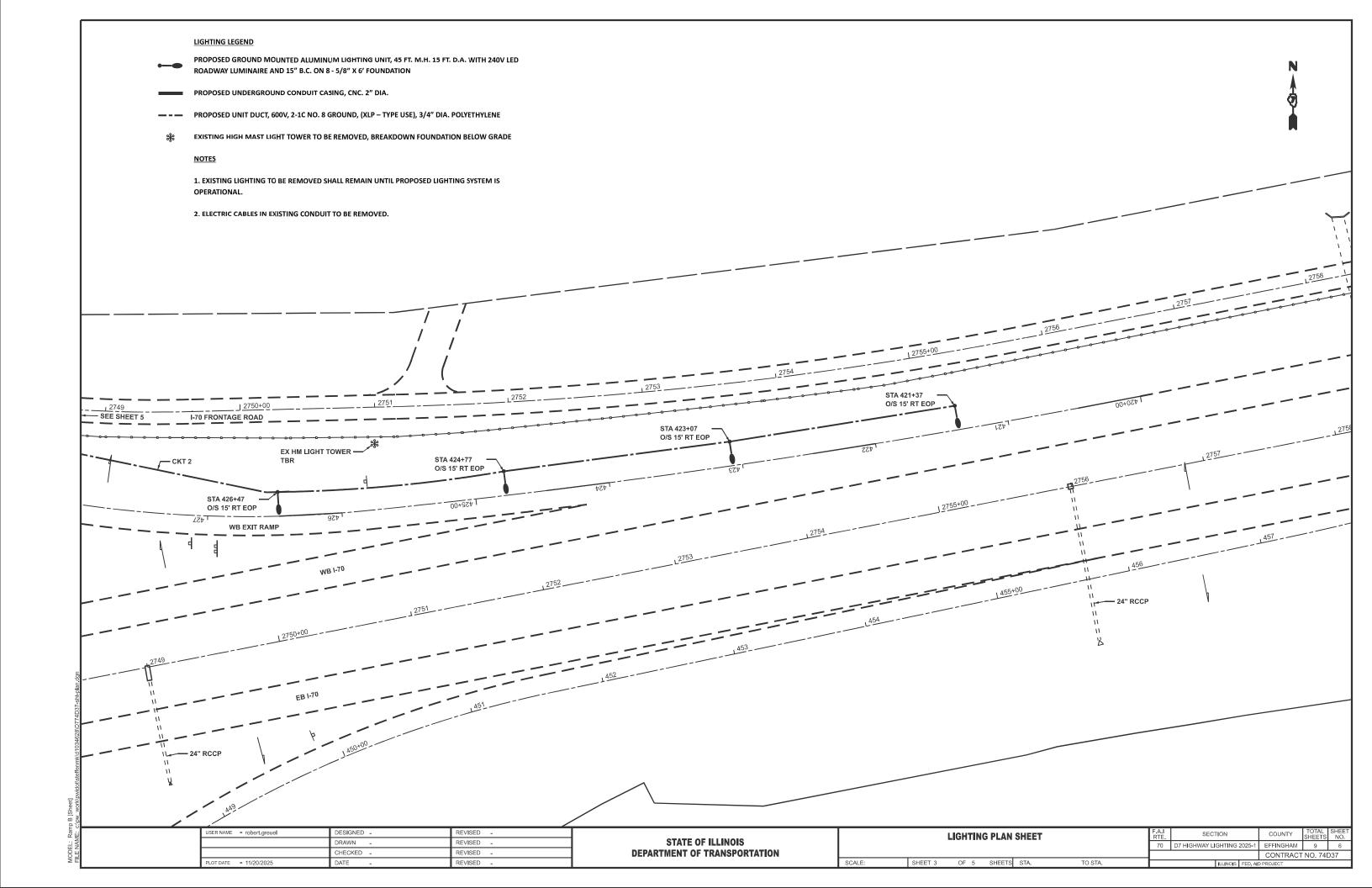
USER NAME = robert.greuel	DESIGNED -	REVISED -
	DRAWN =	REVISED =
	CHECKED -	REVISED -
PLOT DATE = 10/16/2025	DATE _	REVISED _

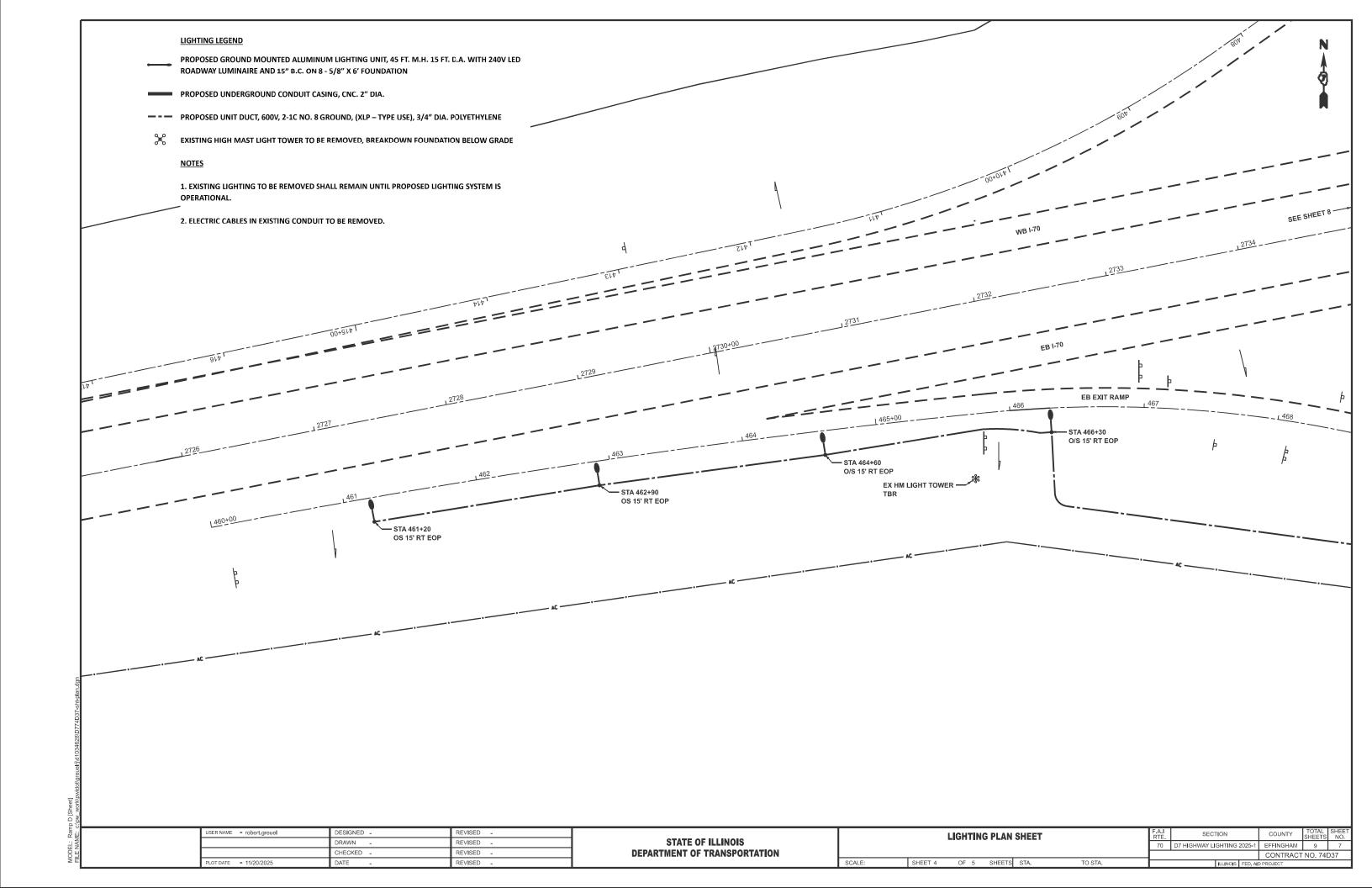
SUMMARY OF QUANTITIES				RTE. SECTION		COUNTY	SHEETS		
					70	D7 HIGHWAY LIGHTING 2025-1	EFFINGHAM	9	3
							CONTRACT	NO. 74	037
SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

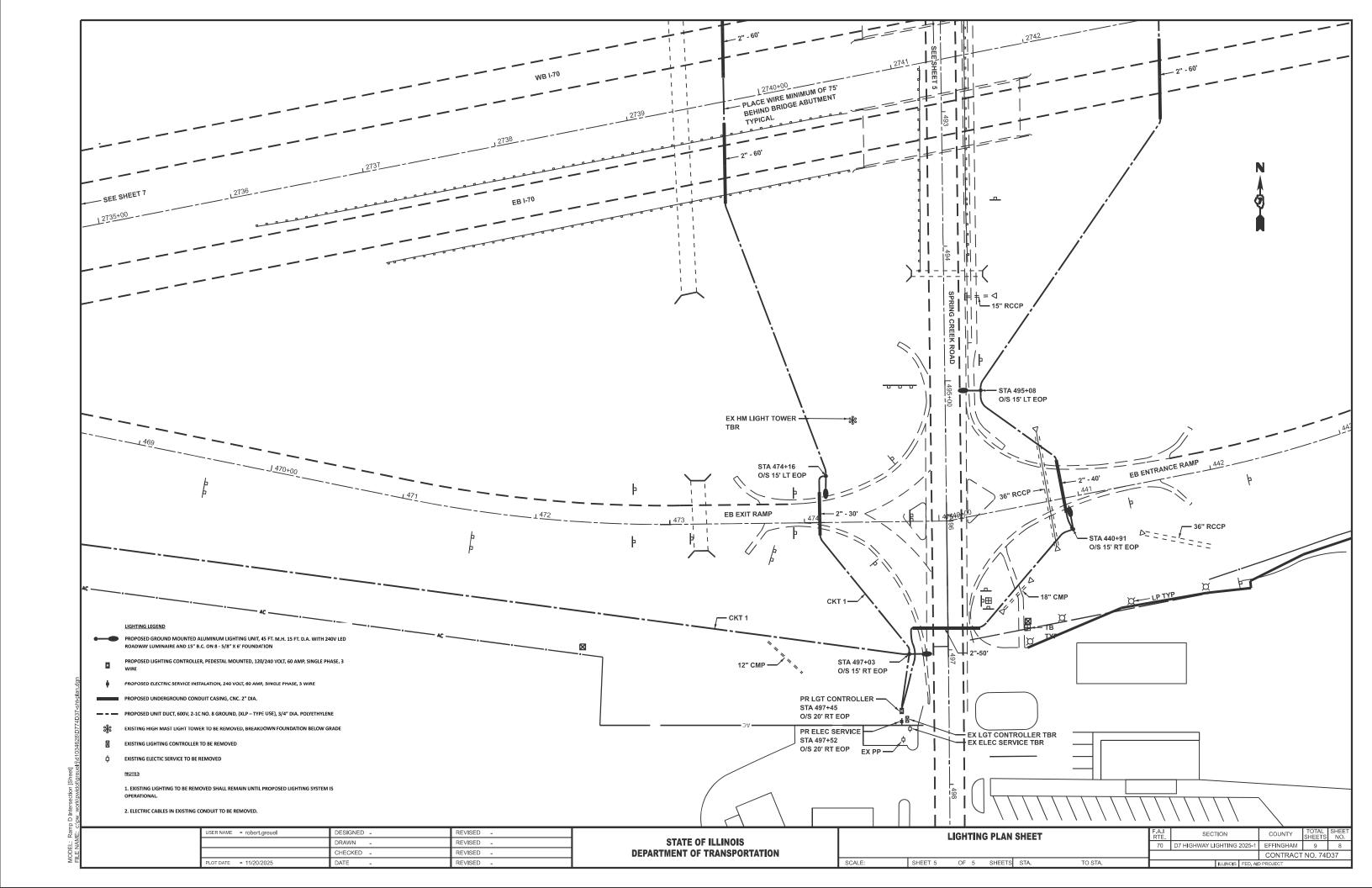


CONTRACT NO. 74D37







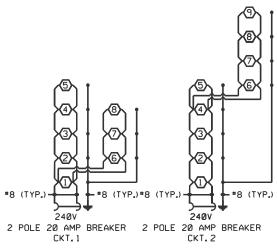


NOTES

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.

PROPOSED ROADWAY LUMINAIRE

GROUND ROD



LIGHTING CONTROLLER PEDESTAL MOUNT,240V I-70 AT MONTROSE INTERCHANGE



mounting height, setback, or arm length.

Luminaire Performance Table

7	O	е	C	ι	
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Date	Contract	Number		Section Num	ber		Co	unty			
11/19/25	74D37			D7 HWY L	TG 2	2025-1	Ef	fingham	า		
Marked Route N	umber				Munio	cipality				1	
I-70					МО	NTRO	SE				
Roadway											
Lane Width (see	note 4)		r and D	irection of lanes			Width	1	e Classificatio	on	Q-Zero Value
12 ft		3				N/A		R3			0.07
Structure Mounting Height	Arm Len	gthS	et-Back	(see note 1)	,Nu	mber of	Luminarie	es			
45 ft	15 ft		15 ft			I/A					
Luminaire Description					Trans	sverse [Distribution	1	Lat	teral	Distribution
LED, ROADV	VAY, DES	SIGNA	ΓΙΟΝ (G		PE 3				ediu	
Total Light Loss	-			Rating			Shields				Dimming Protocol
Refer to Note	s 6 and 7	,	U=0	_			NONE)-10V
Layout Spacing 170 ft		Configu Single		d							
Performance (6)	Uniformity Ratio	, EAV	EMIN				_	
> or = 0.7				< or = 3.0:1							
Average Lumina	nce, LAVE	(cd/m2)	Unifor	mity Ratio, LAVE	MIN		Uniformity	Ratio, LN	ЛАХим		eiling Luminance Ratio, LV/LAV
> or = 0.6			< or	= 3.0:1			< or = 6	3.0:1			< or = 0.3:1
Light Tresspass (see notes 5 and 7) Distance to ROW (behind pole) Max. Horizontal Illuminance at ROW, EH Max. Vertical Illuminance at ROW, EV N/A N/A							e at ROW, EV				
2. Lighting 3. Perform the give 4. Lane wid 5. Complia 6. Photome 7. Light tre grade a	calculation ance requiren condition of the with is the wince with petric calculations calculation of the wind vertical	s shall be ements as listed idth of earforman ations for ulations calculated	e perfo shall be above. ach ind ice crite r roadw shall be ions pe	ividual lane, not the shall be held ays shall be perfermed with rformed with calo	to be of to one ormed a tota culatio	confuse e signific d with a I light lo	ndards of p d with tota cant digit. total light l ss factor o s located th	I roadway oss facto f 1.0 and nree feet	ric performand y width. Ir of 0.7 with horizont above grade.	ce fo al ca	padway. r the luminaire, based on lculations performed at

Printed 11/19/25 BDE 5630 (Rev. 06/06/24)

USER NAME = Mona.Steffen	DESIGNED -	REVISED -	Г
	DRAWN -	REVISED -	
	CHECKED -	REVISED -	
PLOT DATE = 11/20/2025	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAM AND						F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
LUMINAIRE PERFORMANCE TABLE				70	70 D7 HIGHWAY LIGHTING 2025-1 EF		9	9		
						CONTRACT	NO. 74I	037		
SHEET 1	OF	1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				-