

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A. RITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-017L	COOK	63	1
ILLINOIS		CONTRACT NO. 62H54		

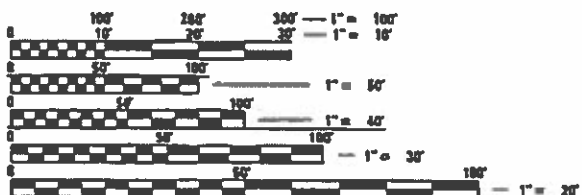
TRAFFIC DATA	ADT 2017	SPEED POSTED
I-290 / IL 53 NORTH/SOUTH	82300/74000	55/55
I-90 EAST/WEST	109800	70/70
I-57 NORTH/SOUTH	79500/54500	55/60
US 30 EAST/WEST	33000/21000	45/45

PROPOSED HIGHWAY PLANS

VARIOUS ROUTES
VARIOUS LOCATIONS
SECTION: 2018-131-L
PROJECT: NHPP-S9MW(891)
REPLACE LIGHT TOWERS & FOUNDATIONS
AT VARIOUS LOCATIONS ALONG I-57 /US-30
AND I-290 /IL-53 /I-90 IN COOK COUNTY

D-91-070-19
C-91-264-19

SEE LOCATION MAPS ON
SHEET E-KP1 AND INDEX OF SHEETS
AND IDOT HIGHWAY STANDARDS LIST
ON SHEET E-TLC1



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.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

MEADE ELECTRIC CO. DISTRICT ONE ELECTRICAL
MAINTENANCE CONTRACTOR LOCATES IDOT ELECTRICAL
EQUIPMENT AND UNDERGROUND CABLES
773-287-7672



DELTA ENGINEERING GROUP, LLC
111 W. JACKSON BLVD., CHICAGO, IL 60604
MAIN 312-377-7700 FAX 312-427-8146

PROJECT ENGINEER: TONY GODINHO (847)-705-4442
PROJECT MANAGER: DARYLE DREW (847)-705-4424

CONTRACT NO. 62H54



Grazyna 5/29/19
EXPIRES 11-30-2019
Civil Drawings



H Master 5/29/2019
EXPIRES 11-30-2019

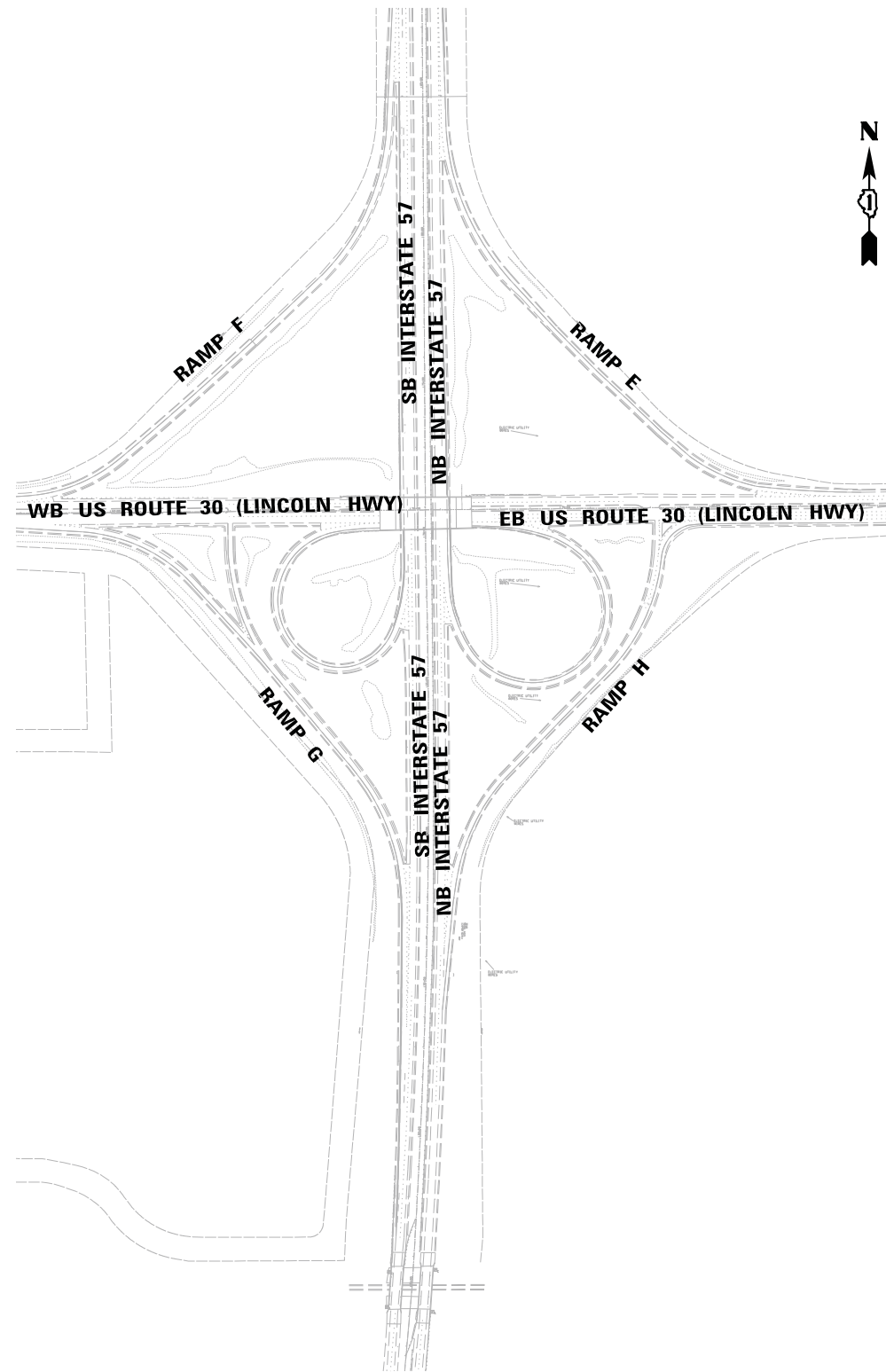
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *May 31 2019*
Anthony Ramsey REGIONAL ENGINEER

June 14 2019
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

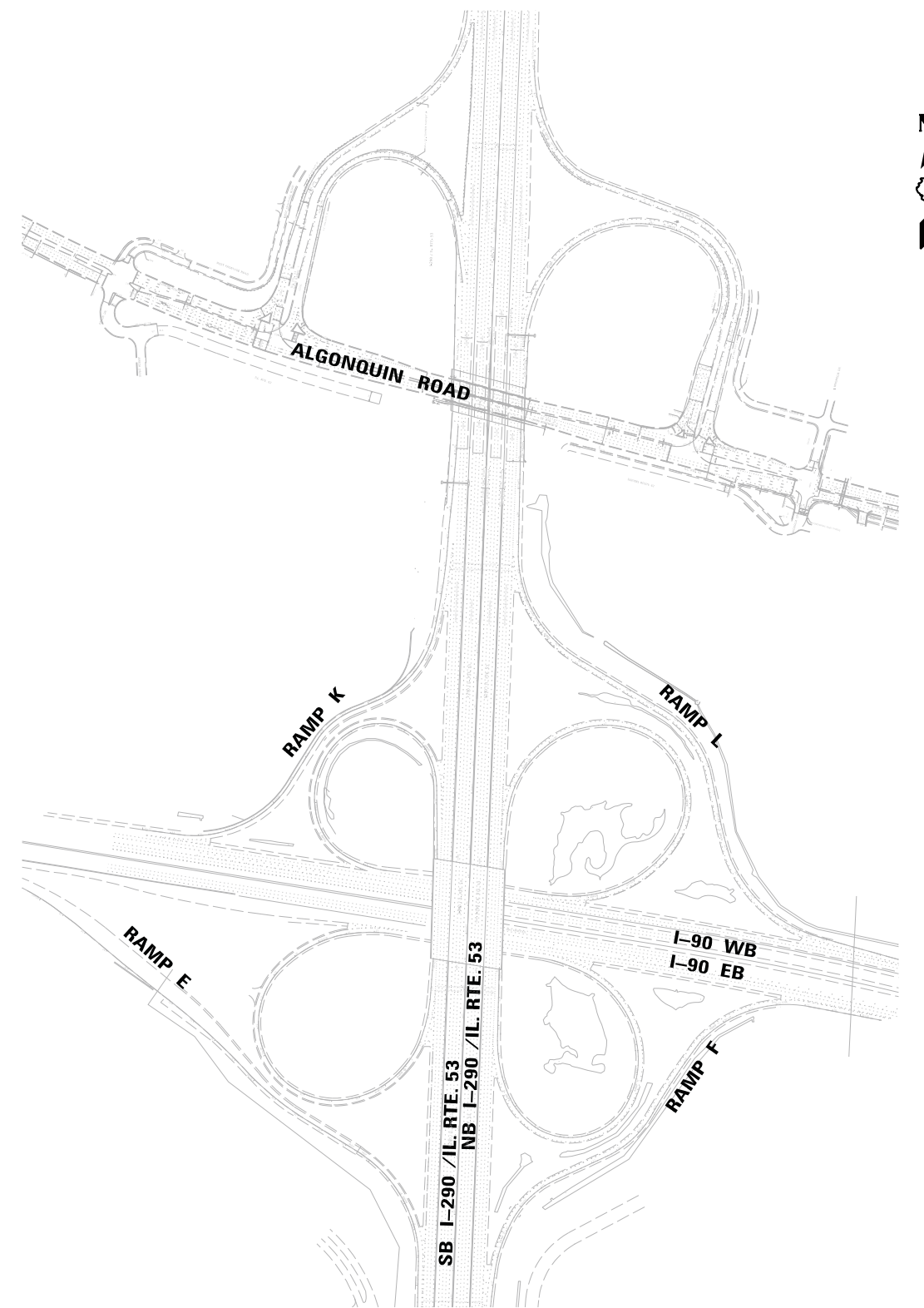
June 19 2019
[Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS



I-57 / US-30
SCALE: NONE

NEAR BY CITY OR VILLAGE: MATTESON
COUNTY: COOK



I-290 / IL 53 / I-90
SCALE: NONE

NEAR BY CITY OR VILLAGE: ROLLING MEADOWS
COUNTY: COOK



USER NAME = \$USER\$	DESIGNED - HM	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - HS	REVISED -
PLOT DATE = \$DATE\$	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOCATION MAP

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	2
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

E-KP1

Section: 2018-131-L
Contract No.: 62H54
(D-91-070-19) (C-91-264-19)

URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				90% FED 10% TDC	90% FED 10% TDC
				ROADWAY 0021 COOK	HIGHWAY LIGHTING 0021 COOK
20101000	TEMPORARY FENCE	FOOT	400	400	
20200100	EARTH EXCAVATION	CU YD	68	68	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	3,048	3,048	
25000210	SEEDING, CLASS 2A	ACRE	0.15	0.15	
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	13	13	
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	13	13	
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	13	13	
25100630	EROSION CONTROL BLANKET	SQ YD	3,048	3,048	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	10	10	
28000400	PERIMETER EROSION BARRIER	FOOT	14,158	14,158	
28000500	INLET AND PIPE PROTECTION	EACH	5	5	
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	400	400	
31101400	SUB-BASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	60	60	
42000060	WELDED WIRE REINFORCEMENT	SQ YD	60	60	
50200100	STRUCTURE EXCAVATION	CU YD	81	81	
50300225	CONCRETE STRUCTURES	CU YD	45	45	
50300300	PROTECTIVE COAT	SQ YD	86	86	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5,860	5,860	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	255	255	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4	
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
* 66901002	ON-SITE MONITORING OF REGULATED SUBSTANCES	CAL DA	15	15	
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12	
67100100	MOBILIZATION	L SUM	1	1	

Section:
Contract No.: 62H54
(D-91-070-19) (C-91-264-19)

URBAN

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				90% FED 10% TDC	90% FED 10% TDC
				ROADWAY 0021 COOK	HIGHWAY LIGHTING 0021 COOK
81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	510		510
* 81603081	UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	15,460		15,460
* 83050825	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM	EACH	52		52
* 83504500	LIGHT TOWER, 120 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8	EACH	3		3
* 83600365	LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	52		52
* 83700350	LIGHT TOWER FOUNDATION, 54" DIAMETER	FOOT	60		60
* 83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	52		52
* 84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	2		2
* 89502380	REMOVE EXISTING HANDHOLE	EACH	3		3
* X1400149	LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C	EACH	125		125
* X1400190	REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	57		57
* X1400191	MAINTENANCE OF LIGHTING SYSTEM, LOCATION 1	CAL MO	12		12
* X1400192	MAINTENANCE OF LIGHTING SYSTEM, LOCATION 2	CAL MO	12		12
* X1400193	MAINTENANCE OF LIGHTING SYSTEM, LOCATION 3	CAL MO	12		12
* X1400341	REMOVAL OF LUMINAIRE, SALVAGE	EACH	73		73
X2501800	SEEDING CLASS 4 (MODIFIED)	ACRE	0.48	0.48	
X7010216	TRAFFIC CONTROL AND PROTECTION, SPECIAL	L SUM	1	1	
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1	
* X8420502	REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	18		18
* X8420510	REMOVAL OF TOWER FOUNDATION	EACH	18		18
* X8951011	REMOVAL AERIAL CABLE	FOOT	200		200
Z0013798	CONSTRUCTION LAYOUT	L SUM	1		1
* Z0033020	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	125		125
* X1400259	LUMINAIRE, HIGHMAST LED, TYPE D	EACH	14		14



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PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	3
			CONTRACT NO. 62H54	
ILLINOIS FED. AID PROJECT				

E-QTY1

LIGHT TOWER REPLACEMENT INFORMATION GROUPED PER LOCATION

TOWER INFORMATION																		
LIGHTING CONTROLLER "L" NUMBER	LIGHTING CONTROLLER CABINET DESIGNATION	TOWER STRUCTURE NUMBER	COUNTY	NEARBY CITY OR VILLAGE	MAIN ROUTE	CROSS ST.	TOWER EXISTING LATITUDE	TOWER EXISTING LONGITUDE	EXISTING LUMINAIRE VOLTAGE	EXISTING HIGHMAST HPS LUMINAIRE TO BE SALVAGED (QUANTITY - WATTAGE)	PROPOSED HIGHMAST LUMINAIRES (QUANTITY - LED TYPE)	EXISTING TOWERS TO BE REMOVED NO SALVAGE	EXISTING FOUNDATION TO BE REMOVED	EXISTING TOWER HEIGHT (FT)	PROPOSED TOWER HEIGHT (FT)	PROPOSED RECOMMENDED FOUNDATION DEPTH (FT)	PROPOSED FOUNDATION DIAMETER (INCHES)	PROPOSED WORK INFO
L0495	X	3XCD4	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.514128	-87.742925	240	3-750W		X	X	100				REPLACE WITH NEW LIGHT POLES
L0495	X	3XCD3	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.51182	-87.742914	240	3-750W		X	X	100				REPLACE WITH NEW LIGHT POLES
L0495	X	3XCD2	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.507548	-87.744461	240	3-750W		X	X	100				REPLACE WITH NEW LIGHT POLES
L0495	X	3XCD1	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.509619	-87.743015	240	3-750W		X	X	100				REPLACE WITH NEW LIGHT POLES
L0495	X	3XAB5	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.51297	-87.74213	240	3-750W		X	X	100				REPLACE WITH NEW LIGHT POLES
L0495	X	3XAB4	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.510731	-87.742063	240	3-750W		X	X	100				REPLACE WITH NEW LIGHT POLES
L0495	X	4XAB3	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.507843	-87.741817	240	4-750W		X	X	100				REPLACE WITH NEW LIGHT POLES
L0495	X	3XAB1 (3XMN2)	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.506384	-87.740075	240	3-750W		X	X	100				REPLACE WITH NEW LIGHT POLES
L0495	X	2XIJ1	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.505742	-87.739156	240	2-750W		X	X	100				REPLACE WITH NEW LIGHT POLES
L0495	X	2XIJ3	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.50587	-87.74158	240	2-750W		X	X	100				REPLACE WITH NEW LIGHT POLES
L0495	X	3XIJ4	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.50536	-87.742966	240	3-750W		X	X	100				REPLACE WITH NEW LIGHT POLES
L0495	X	2XGH5	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.504527	-87.743844	240	2-750W		X	X	100				REPLACE WITH NEW LIGHT POLES
L0495	X	5XEF9	Cook	Matteson	I-57	US 30 (Lincoln Hwy)	41.506661	-87.742936	240	5-750W		X	X	100				REPLACE WITH NEW LIGHT POLES
L1520	P	4PEF3	Cook	Rolling Meadows	I-290/IL 53	I-90	42.054004	-88.027881	240	4-750W	4 - LED TYPE D	X	X	120	120	20	54"	REPLACE WITH NEW LIGHT TOWER
L1520	P	5PGH1	Cook	Rolling Meadows	I-290/IL 53	I-90	42.055405	-88.027939	240	5-750W	5 - LED TYPE D	X	X	120	120	20	54"	REPLACE WITH NEW LIGHT TOWER
L1525	R	5REF4	Cook	Rolling Meadows	I-290/IL 53	I-90	42.058044	-88.027697	240	5-750W	5 - LED TYPE D	X	X	120	120	20	54'	REPLACE WITH NEW LIGHT TOWER
L1525	R	2REF5	Cook	Rolling Meadows	I-290/IL 53	I-90	42.059138	-88.026075	240	2-750W		X	X	120				REPLACE WITH NEW LIGHT POLES
L1525	R	2RAB6	Cook	Rolling Meadows	I-290/IL 53	I-90	42.058777	-88.030211	240	2-750W		X	X	120				REPLACE WITH NEW LIGHT POLES

INDEX OF SHEETS

- 1 COVER SHEET
- 2 LOCATION MAP
- 3 SUMMARY OF QUANTITIES
- 4 TOWER REPLACEMENT GROUPED PER LOCATION, INDEX OF SHEETS, IDOT STANDARDS
- 5 - 15 CIVIL PLAN
- 16 SYMBOLS LEGEND, GENERAL NOTES AND REMOVAL NOTES
- 17 - 26 LIGHTING REMOVAL PLAN
- 27 - 37 PROPOSED LIGHTING PLAN
- 38 SINGLE LINE DIAGRAM CONTROLLER "P", I-290 / IL 53
- 39 - 40 SINGLE LINE DIAGRAM CONTROLLER "R", I-290 / IL 53
- 41 SINGLE LINE DIAGRAM CONTROLLER "X", I-57 / US 30
- 42 LIGHT TOWER SERVICE PAD DETAILS (5PGH1)
- 43 LIGHT TOWER SERVICE PAD AND RETAINING WALL DETAILS (4PEF3, 5REF4)
- 44 LIGHT TOWER SERVICE PAD AND RETAINING WALL REINFORCEMENT (4PEF3, 5REF4)
- 45 - 53 IDOT STANDARD DETAILS (LIGHTING)
- 54 TC-08 ENTRANCE AND EXIT RAMP CLOSURE DETAILS
- 55 TC-09 TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE
- 56 TC-14 TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
- 57 TC-17 PARTIAL RAMP AND SHOULDER CLOSURE DETAILS
- 58 - 63 SOIL BORING LOCATIONS AND SOIL BORING LOGS

IDOT HIGHWAY STANDARDS

- 280001-07 TEMPORARY EROSION CONTROL SYSTEMS
- 701106-02 OFF-RD OPERATIONS MULTILANE, MORE THAN 15' AWAY
- 701400-09 APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701401-12 LANE CLOSURE, FREEWAY/EXPRESSWAY
- 701411-09 LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS >45 MPH
- 701428-01 TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
- 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701901-08 TRAFFIC CONTROL DEVICES
- 701446-09 TWO LANE CLOSURE, FREEWAY / EXPRESSWAY



USER NAME = *USER*	DESIGNED - HM	REVISED -
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PLOT SCALE = *SCALE*	CHECKED - HS	REVISED -
PLOT DATE = *DATE*	DATE - 05-30-2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TOWER REPLACEMENT GROUPED PER LOCATION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		2018-131-L	COOK	63	4
				CONTRACT NO. 62H54	
ILLINOIS FED. AID PROJECT					

E-TLC1

MAINTENANCE OF TRAFFIC GENERAL NOTES

1. THE CONTRACTOR'S VEHICLES MUST ALWAYS MOVE WITH AND NOT AGAINST OR ACROSS THE FLOW OF TRAFFIC, AND THEY MUST ENTER OR LEAVE WORK AREAS IN A MANNER WHICH IS NOT HAZARDOUS TO TRAFFIC AND WILL NOT INTERFERE WITH NORMAL TRAFFIC. THE CONTRACTOR'S VEHICLES MUST NOT PARK OR STOP EXCEPT WITHIN DESIGNATED WORK AREAS. PERSONAL VEHICLES ARE NOT PERMITTED TO PARK WITHIN THE RIGHT-OF-WAY EXCEPT IN AREAS DESIGNATED BY THE ENGINEER.
2. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL BE FIELD FIT TO CONDITIONS AS DIRECTED BY THE ENGINEER.
3. ALL SIGNS THAT ARE TO BE IN PLACE MORE THAN 4 DAYS SHALL BE MOUNTED ON METAL POSTS WHEN POSSIBLE, 7 FEET FROM THE TOP OF PAVEMENT TO THE BOTTOM OF THE SIGN, AND DRIVEN A MINIMUM OF 3 FEET INTO THE GROUND. A DIGGER LOCATE SHALL BE PERFORMED PRIOR TO THE INSTALLATION OF THE POSTS. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE CONTRACT.
4. EXISTING TRAFFIC CONTROL SIGNS AND DEVICES SHALL BE REMOVED OR RELOCATED BY THE CONTRACTOR AFTER THE TRAFFIC CONTROL REQUIREMENTS ARE MET OR AS AUTHORIZED BY THE ENGINEER; ANY SIGNS OR DEVICES LEFT IN PLACE ARE TO BE PROTECTED FROM DAMAGE AND MAINTAINED.
5. BORING PITS ARE TO BE PLACED AT LEAST 15' FROM THE TRAVELED WAY ON THE MAINLINE TO ELIMINATE THE NEED FOR TRAFFIC CONTROL AND PROTECTION PER IDOT HIGHWAY STANDARD 701106-02.
6. USE IDOT DISTRICT 1 STANDARD TC-17 FOR PARTIAL RAMP CLOSURES AND SHOULDER CLOSURES ON I-57 AND I-290 WHERE REQUIRED, TC-08 FOR FULL RAMP CLOSURES.
7. IF BORING PIT IS LOCATED WITHIN THE CLEAR ZONE BUT OUTSIDE OF CONSTRUCTION CLEAR ZONE, TRAFFIC CONTROL AND PROTECTION MUST REMAIN IN PLACE ADJACENT TO BORING PIT UNTIL EXCAVATED AREA IS FILLED.
8. TOWER ASSEMBLY LAYDOWN AREAS MUST BE APPROVED BY THE ENGINEER PRIOR TO USE. ADDITIONAL TRAFFIC CONTROL WILL NOT BE PROVIDED SOLELY FOR TOWER LAYDOWN AREAS.
9. CONTRACTOR SHALL REQUEST AND GAIN THE APPROVAL FROM THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S EXPRESSWAY TRAFFIC ENGINEER AT WWW.IDOTLCS.COM TWENTY-FOUR (24) HOURS IN ADVANCE OF ALL DAILY LANE, RAMP AND SHOULDER CLOSURES.
10. CONTRACTOR SHALL ENSURE THAT ALL DROP-OFFS ARE LESS THAN 12 INCHES WITHIN 8 FEET OF THE EDGE OF THE NEAREST OPEN TRAFFIC LANE. IF DROP-OFFS ARE 12 INCHES OR GREATER THE TRENCH MUST BE BACKFILLED.

THE FOLLOWING HIGHWAY STANDARDS ARE TO BE APPLIED TO EACH SITE:

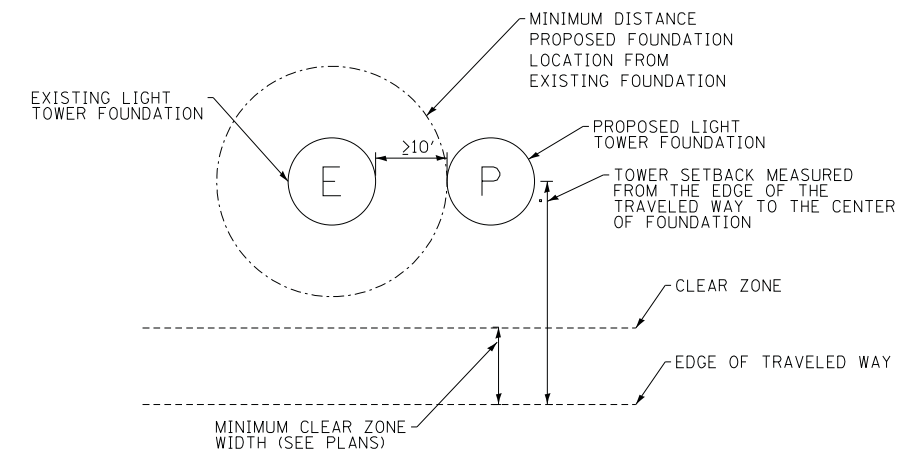
I-290 AT I-90: TC-08, TC-17, 701106-02, 701401-12, 701411-09

I-57 AT US-30: TC-09, TC-17, 701106-2, 701400-09, 701401-12, 701428-01, 701601-09, 701701-10

EROSION AND SEDIMENT CONTROL GENERAL NOTES

1. THE CONSTRUCTION LIMITS WILL BE STAKED AND APPROVED BY THE ENGINEER PRIOR TO COMMENCING CONSTRUCTION. THE CONSTRUCTION LIMITS MAY BE ADJUSTED BY THE ENGINEER TO PRESERVE TREES AND NO ADDITIONAL COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR CHANGES IN CONSTRUCTION LIMITS.
2. THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE START OF CONSTRUCTION OPERATIONS WHICH WILL POTENTIALLY CREATE ERODIBLE CONDITIONS. PLACEMENT AND MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION LIMITS.
3. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
4. TEMPORARY EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS AND CONTRACT SPECIAL PROVISIONS.
5. ALL EROSION CONTROL MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES.
6. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN HIGHWAY STANDARD 280001.
7. THE EROSION CONTROL MEASURES SHOWN ARE A REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOBSITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
8. TEMPORARY STOCKPILE LOCATIONS SHALL BE APPROVED BY THE ENGINEER AND WILL REQUIRE PERIMETER EROSION BARRIER AND TEMPORARY SEEDING WHICH ARE INCLUDED IN THE COST OF DIRECTIONAL BORE.
9. THE CONTRACTOR SHALL INSTALL AND MAINTAIN INLET AND PIPE PROTECTION AT ALL LOCATIONS SHOWN IN PLANS PRIOR TO THE START OF WORK. THE INLET AND PIPE PROTECTION SHALL BE MAINTAINED UNTIL NO LONGER REQUIRED OR AS DIRECTED BY THE ENGINEER.
10. DURING CONSTRUCTION OPERATIONS, WHEN ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY.
11. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF INLET AND PIPE PROTECTION.
12. FOR PERMANENT EROSION CONTROL, THE CONTRACTOR SHALL PLACE TOPSOIL SO THAT IS HAS A BOND WITH THE EXISTING SURFACE TO WHICH IT IS APPLIED. IT SHALL BE DISKED, RAKED, OR OTHERWISE BROKEN UP IF NECESSARY TO PROVIDE SUCH BOND.

LIGHT TOWER FOUNDATION ZONE OF INFLUENCE DETAIL



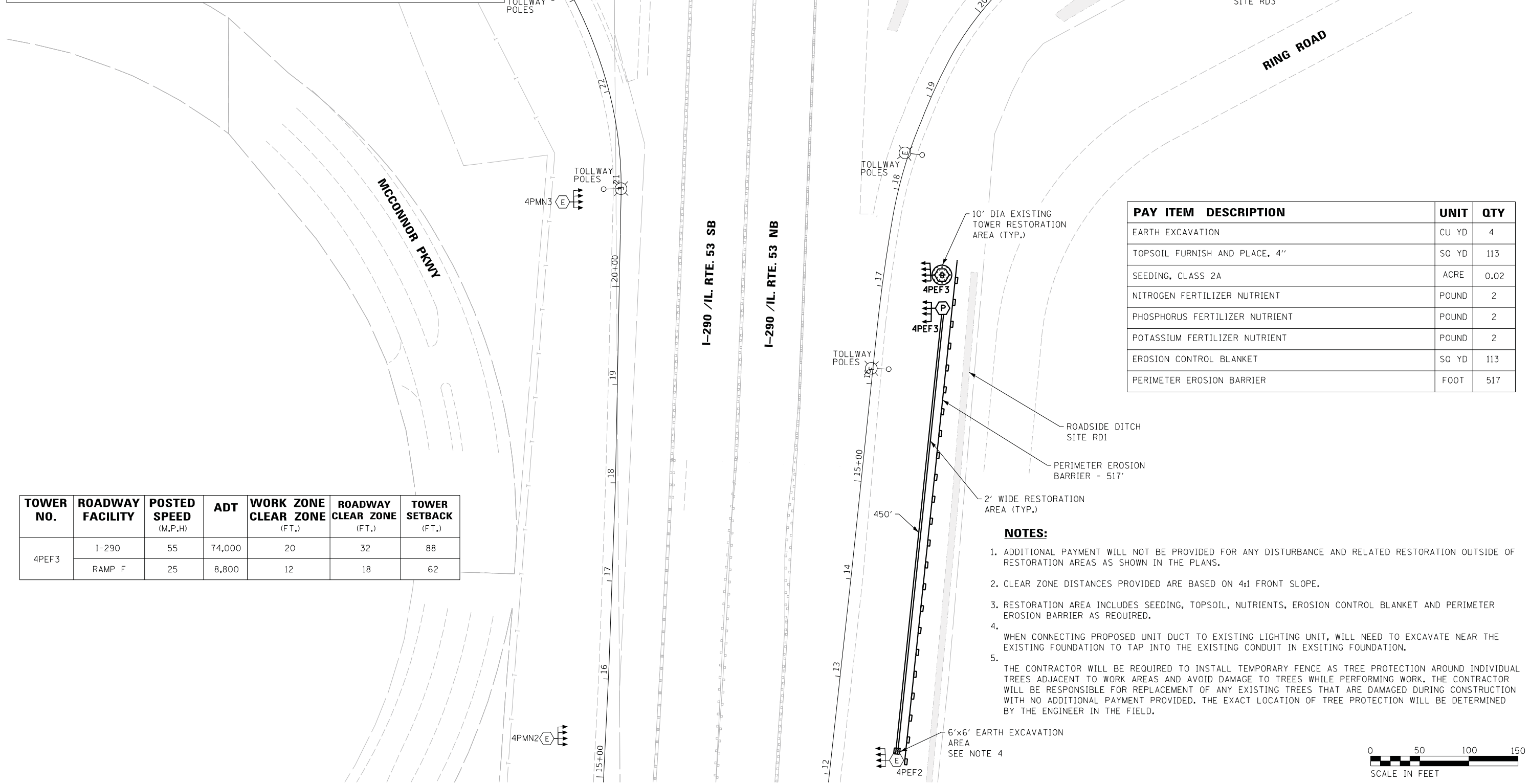
C-00

 DELTA ENGINEERING GROUP, LLC	USER NAME = \$USER\$	DESIGNED - NS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CIVIL SITE PLAN GENERAL NOTES			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALE\$	DRAWN - NS	REVISED -		2018-131-L	COOK	63	5				
PLOT DATE = \$DATE\$	CHECKED - GC	REVISED -	SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.			CONTRACT NO. 62H54						
DATE - 05-30-2019	REVISIED -	ILLINOIS FED. AID PROJECT										

MATCH LINE - SEE SHEET C-02

MATCH LINE - SEE SHEET C-03

LEGEND	
	10'x10' LIGHTING UNIT RESTORATION AREA
	10' DIA. EXISTING TOWER RESTORATION AREA
	2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)
	CONDUIT DIRECT BORE
	10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED)
	EXISTING UNIT DUCT
	6'x6' EARTH EXCAVATION AREA WITH RESTORATION
	PERIMETER EROSION BARRIER
	PROPOSED LIGHT TOWER
	REMOVED LIGHT TOWER
	EXISTING LIGHT TOWER TO REMAIN
	TEMPORARY LIGHTING UNIT
	EXISTING LIGHTING UNIT
	PROPOSED LIGHTING UNIT



PAY ITEM	DESCRIPTION	UNIT	QTY
EARTH EXCAVATION		CU YD	4
TOPSOIL FURNISH AND PLACE, 4"		SQ YD	113
SEEDING, CLASS 2A		ACRE	0.02
NITROGEN FERTILIZER NUTRIENT		POUND	2
PHOSPHORUS FERTILIZER NUTRIENT		POUND	2
POTASSIUM FERTILIZER NUTRIENT		POUND	2
EROSION CONTROL BLANKET		SQ YD	113
PERIMETER EROSION BARRIER		FOOT	517

TOWER NO.	ROADWAY FACILITY	POSTED SPEED (M.P.H.)	ADT	WORK ZONE CLEAR ZONE (FT.)	ROADWAY CLEAR ZONE (FT.)	TOWER SETBACK (FT.)
4PEF3	I-290	55	74,000	20	32	88
	RAMP F	25	8,800	12	18	62

NOTES:

- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE AND RELATED RESTORATION OUTSIDE OF RESTORATION AREAS AS SHOWN IN THE PLANS.
- CLEAR ZONE DISTANCES PROVIDED ARE BASED ON 4:1 FRONT SLOPE.
- RESTORATION AREA INCLUDES SEEDING, TOPSOIL, NUTRIENTS, EROSION CONTROL BLANKET AND PERIMETER EROSION BARRIER AS REQUIRED.
- WHEN CONNECTING PROPOSED UNIT DUCT TO EXISTING LIGHTING UNIT, WILL NEED TO EXCAVATE NEAR THE EXISTING FOUNDATION TO TAP INTO THE EXISTING CONDUIT IN EXISTING FOUNDATION.
- THE CONTRACTOR WILL BE REQUIRED TO INSTALL TEMPORARY FENCE AS TREE PROTECTION AROUND INDIVIDUAL TREES ADJACENT TO WORK AREAS AND AVOID DAMAGE TO TREES WHILE PERFORMING WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING TREES THAT ARE DAMAGED DURING CONSTRUCTION WITH NO ADDITIONAL PAYMENT PROVIDED. THE EXACT LOCATION OF TREE PROTECTION WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.



USER NAME = \$USER*	DESIGNED - NS	REVISED -
DRAWN - NS	REVISIONS -	
PLOT SCALE = \$SCALE*	CHECKED - GC	REVISIONS -
PLOT DATE = \$DATE*	DATE - 05-30-2019	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

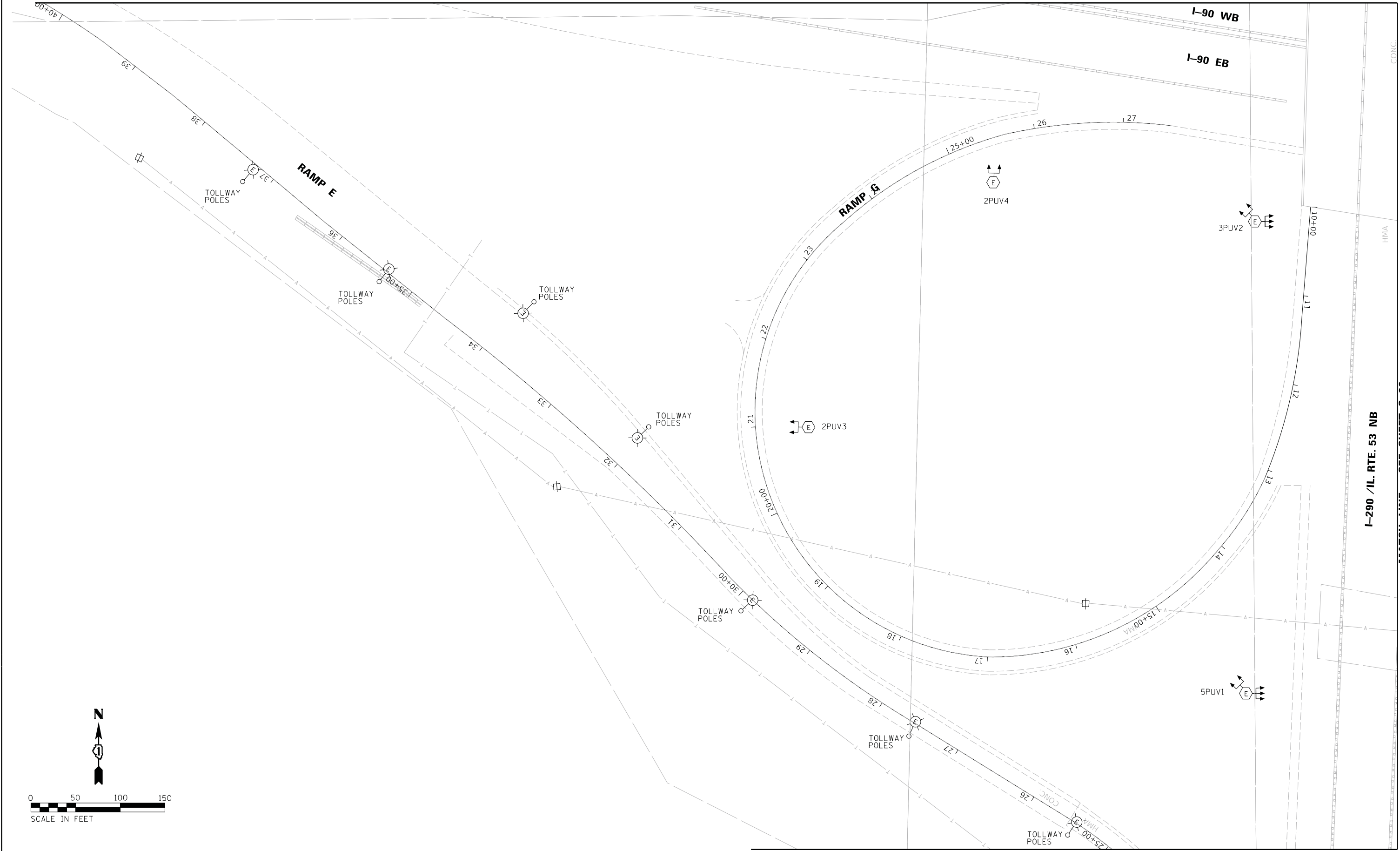
**CIVIL SITE PLAN
I-290 /IL-53 - SHEET 1 OF 5**

SCALE: 1"=50' SHEET 1 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	6
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

C-01

MATCH LINE - SEE SHEET C-04



MATCH LINE - SEE SHEET C-01

C-02



USER NAME = #USER*	DESIGNED - NS	REVISED -
DRAWN - NS	REVISED -	
PLOT SCALE = #SCALE*	CHECKED - GC	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CIVIL SITE PLAN	
I-290 /IL-53 - SHEET 2 OF 5	
SCALE: 1"=50'	SHEET 2 OF 5 SHEETS STA. TO STA.

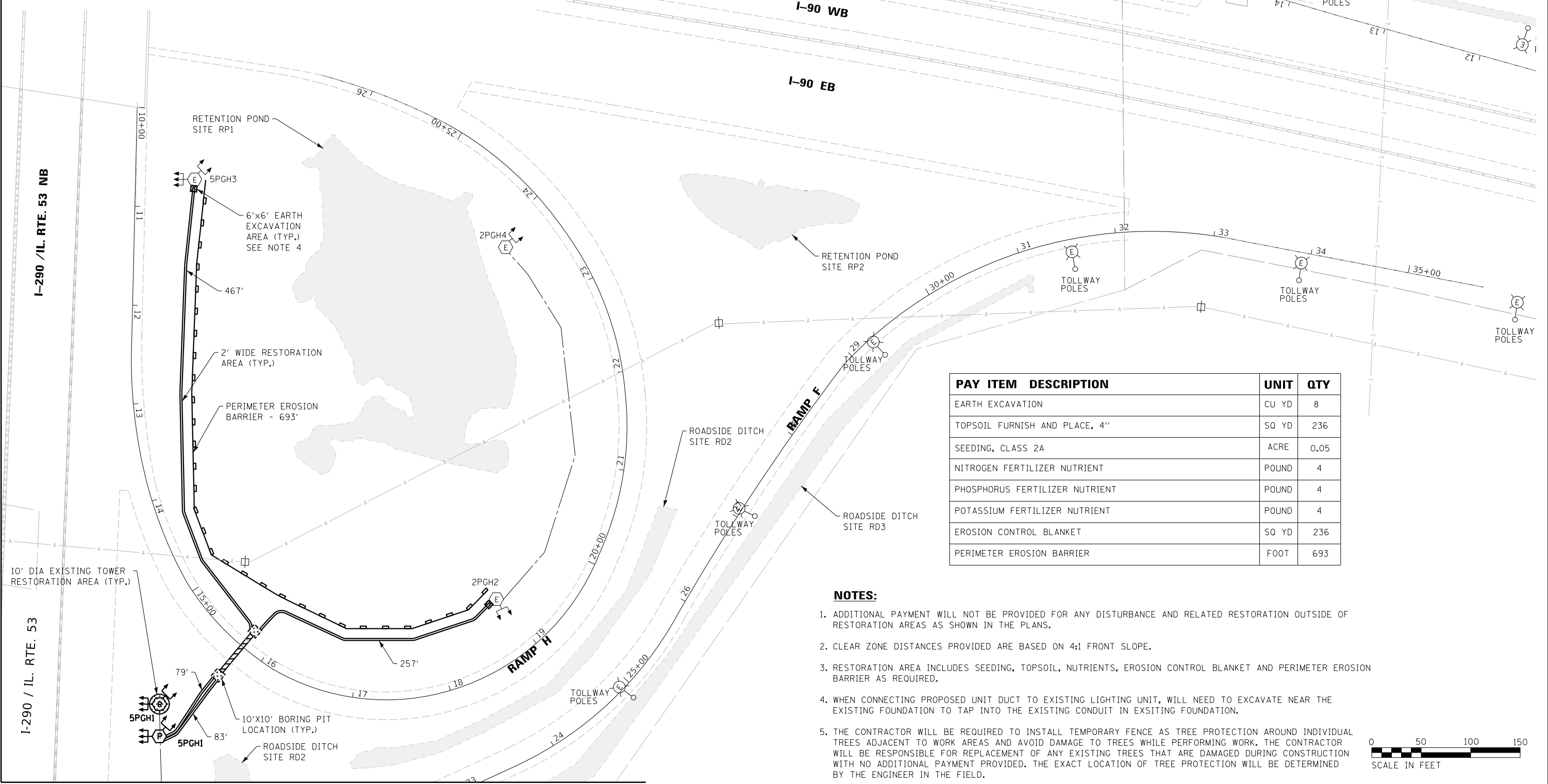
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	7
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

MATCH LINE - SEE SHEET C-05

LEGEND

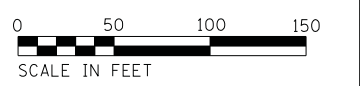
	10'x10' LIGHTING UNIT RESTORATION AREA		PROPOSED LIGHT TOWER
	10' DIA. EXISTING TOWER RESTORATION AREA		REMOVED LIGHT TOWER
	2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)		EXISTING LIGHT TOWER TO REMAIN
	CONDUIT DIRECT BORE		TEMPORARY LIGHTING UNIT
	10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED)		EXISTING LIGHTING UNIT
	EXISTING UNIT DUCT		PROPOSED LIGHTING UNIT
	6'x6' EARTH EXCAVATION AREA WITH RESTORATION		
	PERIMETER EROSION BARRIER		

TOWER NO.	ROADWAY FACILITY	POSTED SPEED (M.P.H)	ADT	WORK ZONE CLEAR ZONE (FT.)	ROADWAY CLEAR ZONE (FT.)	TOWER SETBACK (FT.)
5PGH1	I-290	55	74,000	20	32	48
	RAMP H	30	8,800	12	18	94



PAY ITEM	DESCRIPTION	UNIT	QTY
EARTH EXCAVATION		CU YD	8
TOPSOIL FURNISH AND PLACE, 4"		SQ YD	236
SEEDING, CLASS 2A		ACRE	0.05
NITROGEN FERTILIZER NUTRIENT		POUND	4
PHOSPHORUS FERTILIZER NUTRIENT		POUND	4
POTASSIUM FERTILIZER NUTRIENT		POUND	4
EROSION CONTROL BLANKET		SQ YD	236
PERIMETER EROSION BARRIER		FOOT	693

- NOTES:**
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MATCH LINE - SEE SHEET C-01



USER NAME = *USER*	DESIGNED - NS	REVISED -
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PLOT DATE = *DATE*	CHECKED - GC	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

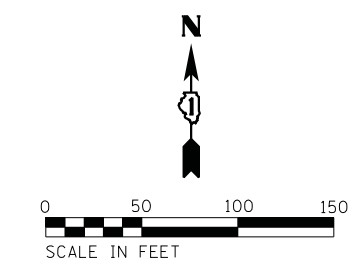
CIVIL SITE PLAN
I-290 /IL-53 - SHEET 3 OF 5
SCALE: 1"=50' SHEET 3 OF 5 SHEETS STA. TO STA.

C-03

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	8
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

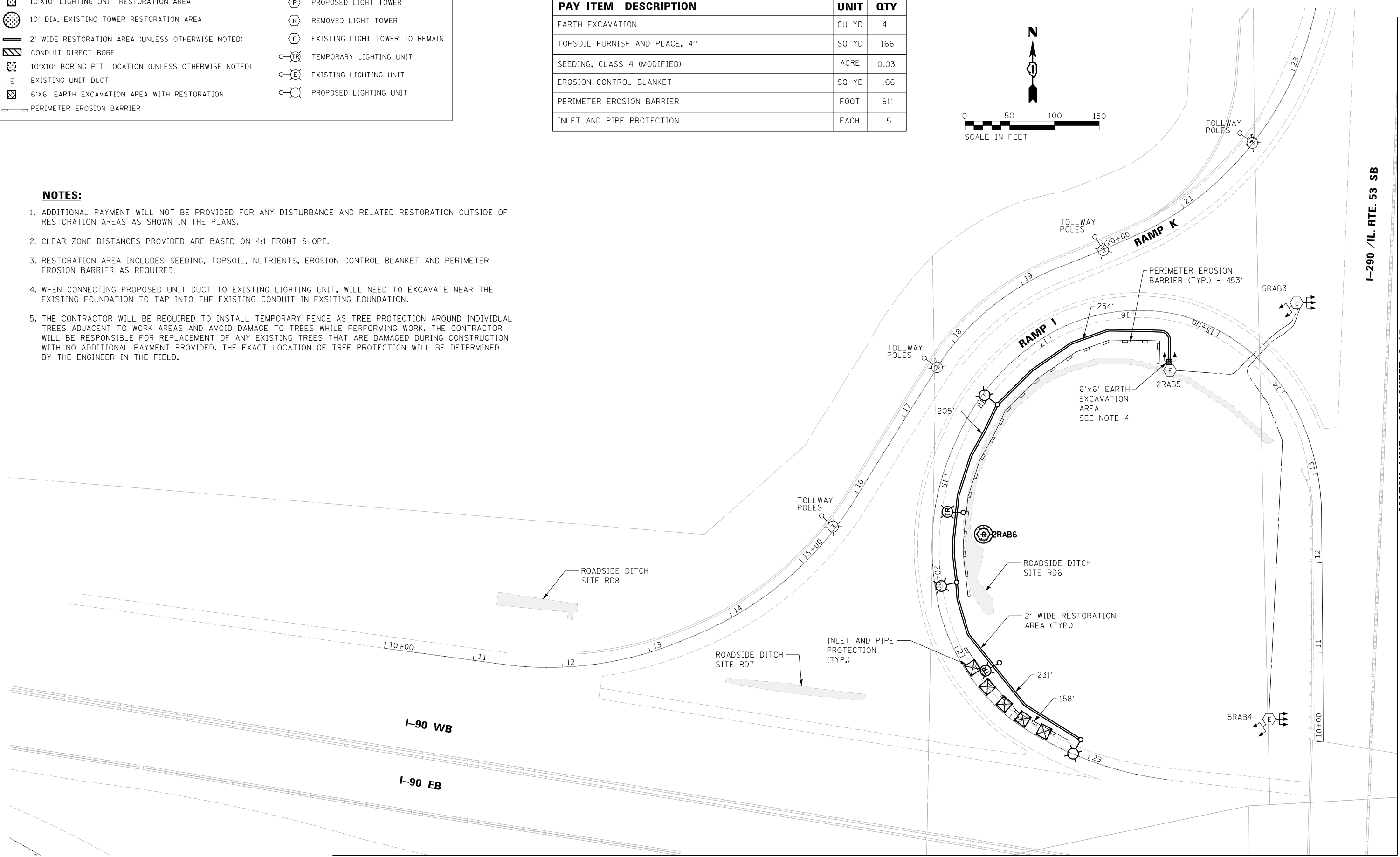
LEGEND			
	10'x10' LIGHTING UNIT RESTORATION AREA		PROPOSED LIGHT TOWER
	10' DIA. EXISTING TOWER RESTORATION AREA		REMOVED LIGHT TOWER
	2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)		EXISTING LIGHT TOWER TO REMAIN
	CONDUIT DIRECT BORE		TEMPORARY LIGHTING UNIT
	10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED)		EXISTING LIGHTING UNIT
	EXISTING UNIT DUCT		PROPOSED LIGHTING UNIT
	6'x6' EARTH EXCAVATION AREA WITH RESTORATION		
	PERIMETER EROSION BARRIER		

PAY ITEM DESCRIPTION	UNIT	QTY
EARTH EXCAVATION	CU YD	4
TOPSOIL FURNISH AND PLACE, 4"	SO YD	166
SEEDING, CLASS 4 (MODIFIED)	ACRE	0.03
EROSION CONTROL BLANKET	SO YD	166
PERIMETER EROSION BARRIER	FOOT	611
INLET AND PIPE PROTECTION	EACH	5



NOTES:

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I-290 /IL. RTE. 53 SB

MATCH LINE - SEE SHEET C-05

MATCH LINE - SEE SHEET C-02

C-04



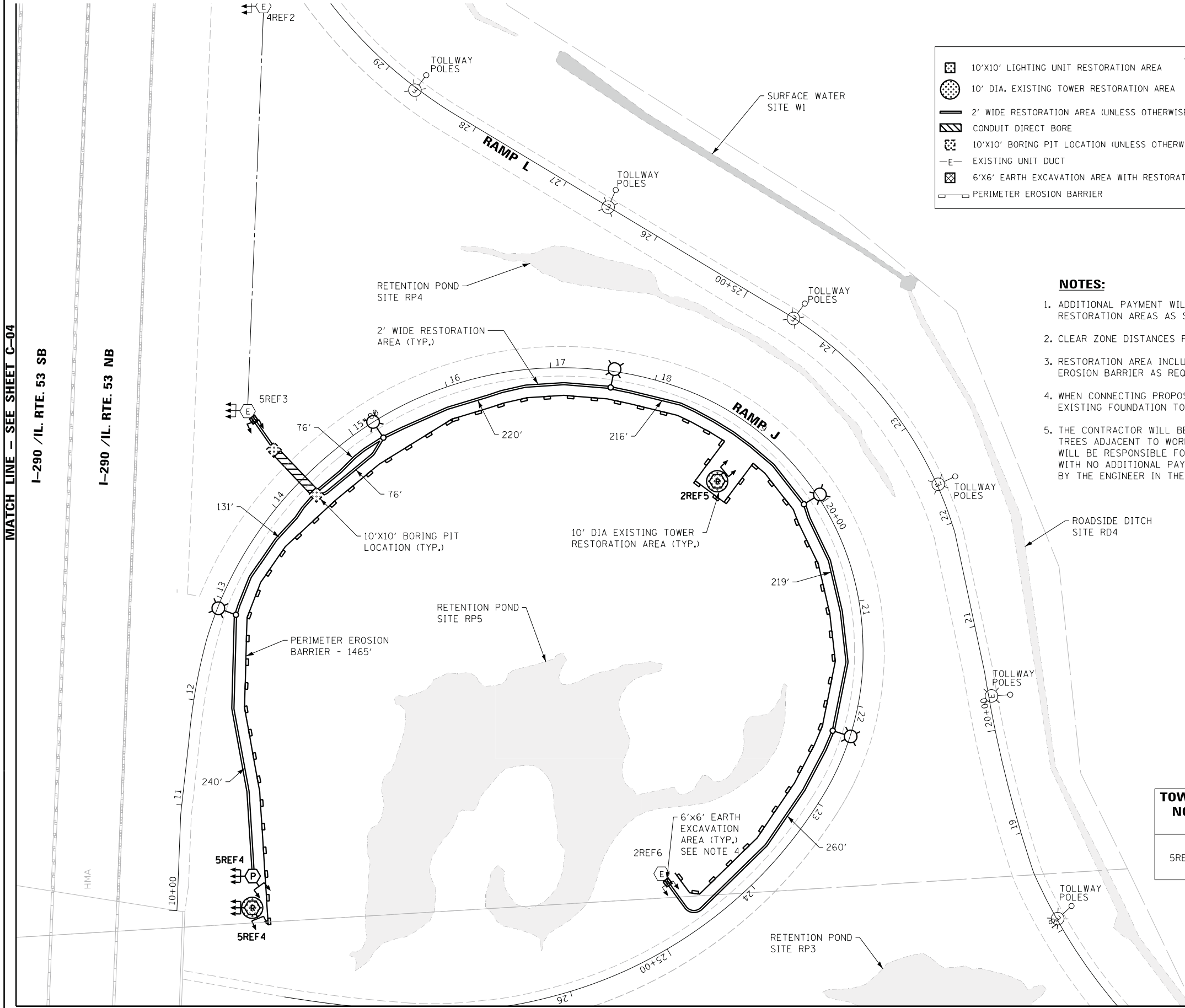
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PLOT DATE = \$DATE\$	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CIVIL SITE PLAN
I-290 /IL-53 - SHEET 4 OF 5
SCALE: 1"=50' SHEET 4 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	9
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

MATCH LINE - SEE SHEET C-04
 I-290 /IL. RTE. 53 SB
 I-290 /IL. RTE. 53 NB



LEGEND

	10'x10' LIGHTING UNIT RESTORATION AREA		PROPOSED LIGHT TOWER
	10' DIA. EXISTING TOWER RESTORATION AREA		REMOVED LIGHT TOWER
	2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)		EXISTING LIGHT TOWER TO REMAIN
	CONDUIT DIRECT BORE		TEMPORARY LIGHTING UNIT
	10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED)		EXISTING LIGHTING UNIT
	EXISTING UNIT DUCT		PROPOSED LIGHTING UNIT
	6'x6' EARTH EXCAVATION AREA WITH RESTORATION		
	PERIMETER EROSION BARRIER		

- NOTES:**
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PAY ITEM DESCRIPTION	UNIT	QTY
EARTH EXCAVATION	CU YD	8
TOPSOIL FURNISH AND PLACE, 4"	SQ YD	367
SEEDING, CLASS 2A	ACRE	0.08
NITROGEN FERTILIZER NUTRIENT	POUND	7
PHOSPHORUS FERTILIZER NUTRIENT	POUND	7
POTASSIUM FERTILIZER NUTRIENT	POUND	7
EROSION CONTROL BLANKET	SQ YD	367
PERIMETER EROSION BARRIER	FOOT	1,465

TOWER NO.	ROADWAY FACILITY	POSTED SPEED (M.P.H.)	ADT	WORK ZONE CLEAR ZONE (FT.)	ROADWAY CLEAR ZONE (FT.)	TOWER SETBACK (FT.)
5REF4	I-290	55	74,000	20	32	70
	RAMP J	30	18,500	12	18	N/A



MATCH LINE - SEE SHEET C-03



USER NAME = *USER*	DESIGNED - NS	REVISED -
DRAWN - NS	REVISIONS -	
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PLOT DATE = *DATE*	DATE - 05-30-2019	REVISIONS -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CIVIL SITE PLAN
 I-290 /IL-53 - SHEET 5 OF 5

SCALE: 1"=50' SHEET 5 OF 5 SHEETS STA. TO STA.

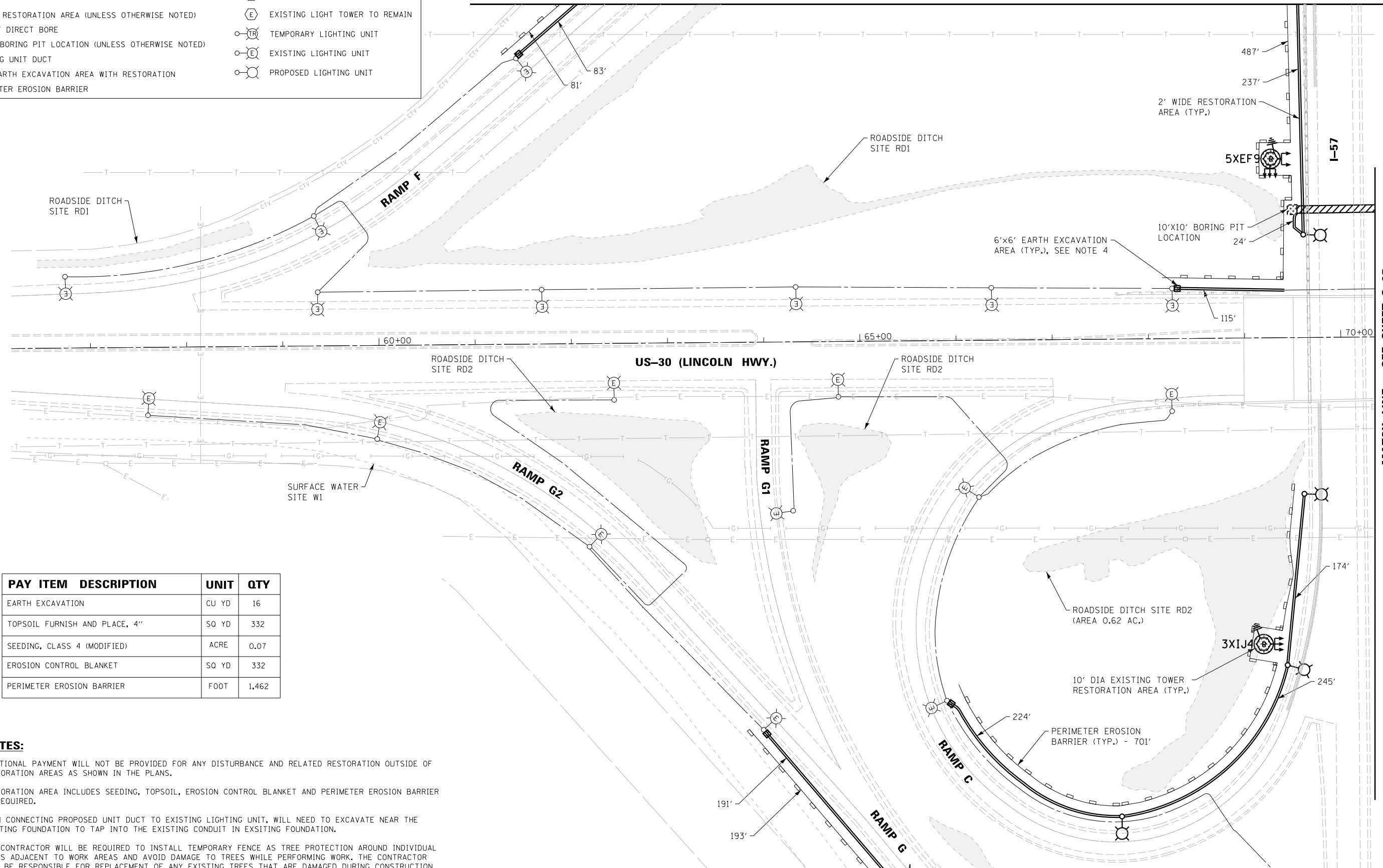
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	10
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

C-05

LEGEND

	10'x10' LIGHTING UNIT RESTORATION AREA		PROPOSED LIGHT TOWER
	10' DIA. EXISTING TOWER RESTORATION AREA		REMOVED LIGHT TOWER
	2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)		EXISTING LIGHT TOWER TO REMAIN
	CONDUIT DIRECT BORE		TEMPORARY LIGHTING UNIT
	10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED)		EXISTING LIGHTING UNIT
	EXISTING UNIT DUCT		PROPOSED LIGHTING UNIT
	6'x6' EARTH EXCAVATION AREA WITH RESTORATION		
	PERIMETER EROSION BARRIER		

MATCH LINE - SEE SHEET C-09



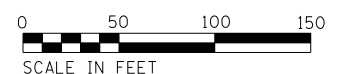
MATCH LINE - SEE SHEET C-07

PAY ITEM	DESCRIPTION	UNIT	QTY
EARTH EXCAVATION		CU YD	16
TOPSOIL FURNISH AND PLACE, 4"		SO YD	332
SEEDING, CLASS 4 (MODIFIED)		ACRE	0.07
EROSION CONTROL BLANKET		SO YD	332
PERIMETER EROSION BARRIER		FOOT	1,462

NOTES:

- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE AND RELATED RESTORATION OUTSIDE OF RESTORATION AREAS AS SHOWN IN THE PLANS.
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MATCH LINE - SEE SHEET C-08



C-06



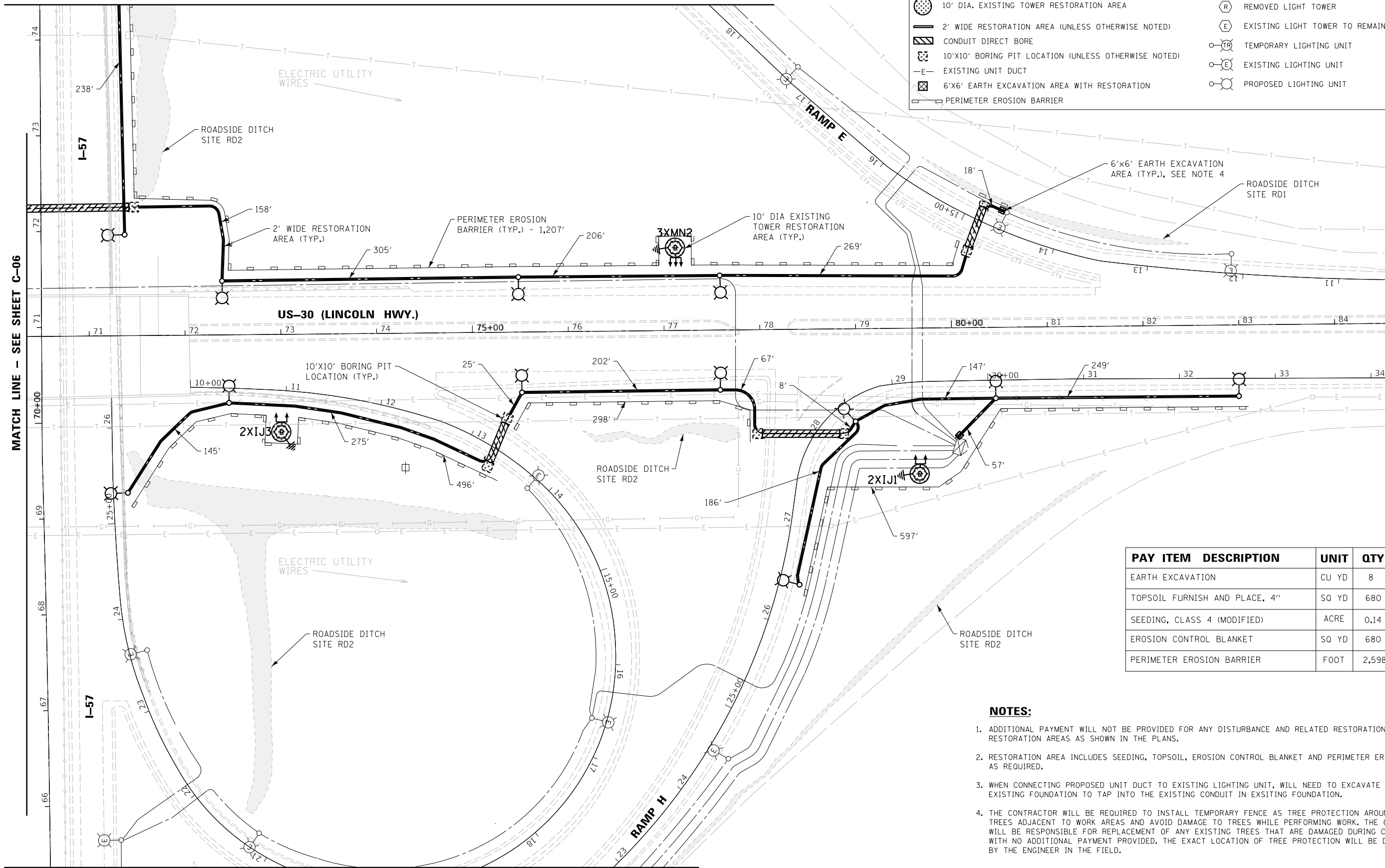
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DRAWN - NS	CHECKED - GC	REVISED -
DATE - 05-30-2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CIVIL SITE PLAN
I-57 /US-30 - SHEET 1 OF 5
SCALE: 1"=50' SHEET 1 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	11
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

MATCH LINE - SEE SHEET C-09



LEGEND

	10'x10' LIGHTING UNIT RESTORATION AREA		PROPOSED LIGHT TOWER
	10' DIA. EXISTING TOWER RESTORATION AREA		REMOVED LIGHT TOWER
	2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)		EXISTING LIGHT TOWER TO REMAIN
	CONDUIT DIRECT BORE		TEMPORARY LIGHTING UNIT
	10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED)		EXISTING LIGHTING UNIT
	EXISTING UNIT DUCT		PROPOSED LIGHTING UNIT
	6'x6' EARTH EXCAVATION AREA WITH RESTORATION		
	PERIMETER EROSION BARRIER		

MATCH LINE - SEE SHEET C-06

MATCH LINE - SEE SHEET C-08

PAY ITEM	DESCRIPTION	UNIT	QTY
EARTH EXCAVATION		CU YD	8
TOPSOIL FURNISH AND PLACE, 4"		SQ YD	680
SEEDING, CLASS 4 (MODIFIED)		ACRE	0.14
EROSION CONTROL BLANKET		SQ YD	680
PERIMETER EROSION BARRIER		FOOT	2,598

NOTES:

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PLOT DATE = *DATE*	CHECKED - GC	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CIVIL SITE PLAN
I-57 /US-30 - SHEET 2 OF 5

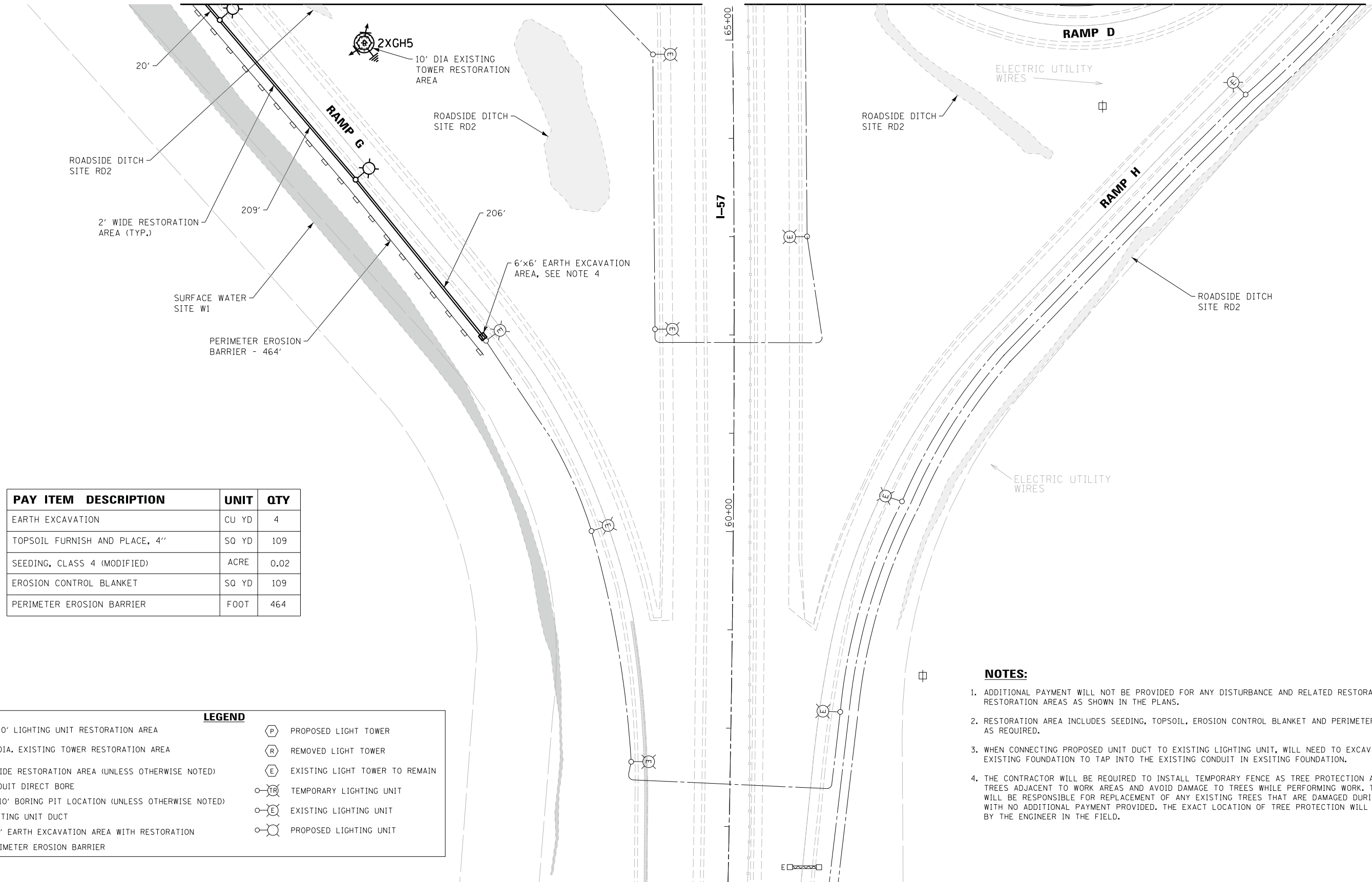
SCALE: 1"=50' SHEET 2 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	12
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

C-07

MATCH LINE - SEE SHEET C-06

MATCH LINE - SEE SHEET C-07



PAY ITEM	DESCRIPTION	UNIT	QTY
EARTH EXCAVATION		CU YD	4
TOPSOIL FURNISH AND PLACE, 4"		SQ YD	109
SEEDING, CLASS 4 (MODIFIED)		ACRE	0.02
EROSION CONTROL BLANKET		SQ YD	109
PERIMETER EROSION BARRIER		FOOT	464

LEGEND	
	10'x10' LIGHTING UNIT RESTORATION AREA
	10' DIA. EXISTING TOWER RESTORATION AREA
	2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)
	CONDUIT DIRECT BORE
	10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED)
	EXISTING UNIT DUCT
	6'x6' EARTH EXCAVATION AREA WITH RESTORATION
	PERIMETER EROSION BARRIER
	PROPOSED LIGHT TOWER
	REMOVED LIGHT TOWER
	EXISTING LIGHT TOWER TO REMAIN
	TEMPORARY LIGHTING UNIT
	EXISTING LIGHTING UNIT
	PROPOSED LIGHTING UNIT

NOTES:

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C-08



USER NAME = #USER#	DESIGNED - NS	REVISED -
DRAWN - NS	REVISIONS -	
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PLOT DATE = #DATE#	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CIVIL SITE PLAN	
I-57 / US-30 - SHEET 3 OF 5	
SCALE: 1"=50'	SHEET 3 OF 5 SHEETS STA. TO STA.

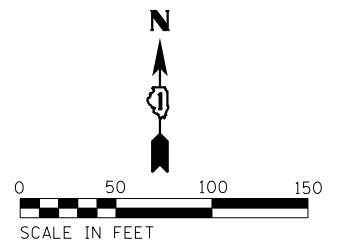
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	13
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

LEGEND	
	10'x10' LIGHTING UNIT RESTORATION AREA
	10' DIA. EXISTING TOWER RESTORATION AREA
	2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)
	CONDUIT DIRECT BORE
	10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED)
	EXISTING UNIT DUCT
	6'x6' EARTH EXCAVATION AREA WITH RESTORATION
	PERIMETER EROSION BARRIER
	PROPOSED LIGHT TOWER
	REMOVED LIGHT TOWER
	EXISTING LIGHT TOWER TO REMAIN
	TEMPORARY LIGHTING UNIT
	EXISTING LIGHTING UNIT
	PROPOSED LIGHTING UNIT

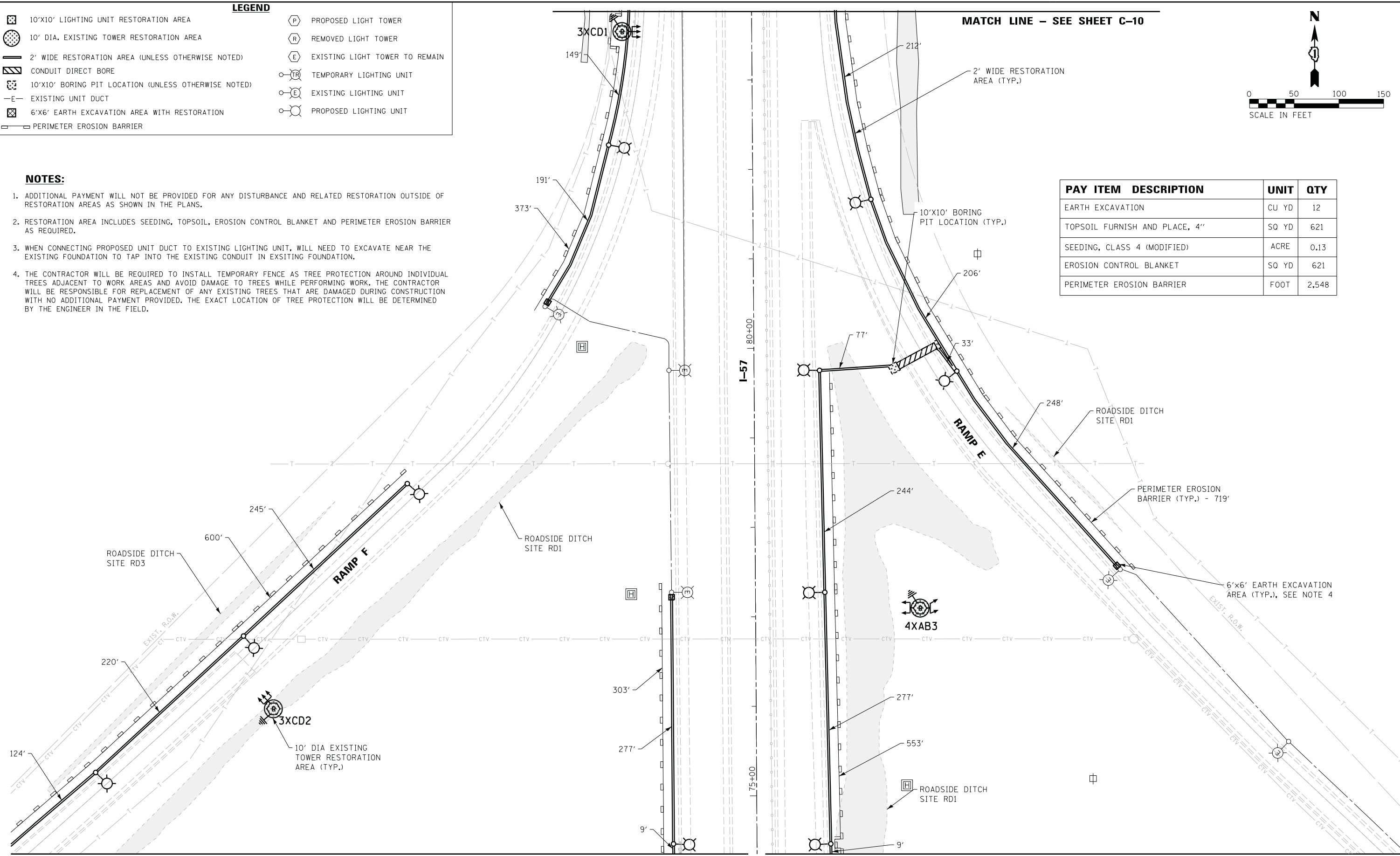
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MATCH LINE - SEE SHEET C-10



PAY ITEM DESCRIPTION	UNIT	QTY
EARTH EXCAVATION	CU YD	12
TOPSOIL FURNISH AND PLACE, 4"	SO YD	621
SEEDING, CLASS 4 (MODIFIED)	ACRE	0.13
EROSION CONTROL BLANKET	SO YD	621
PERIMETER EROSION BARRIER	FOOT	2,548



MATCH LINE - SEE SHEET C-06

MATCH LINE - SEE SHEET C-07

C-09

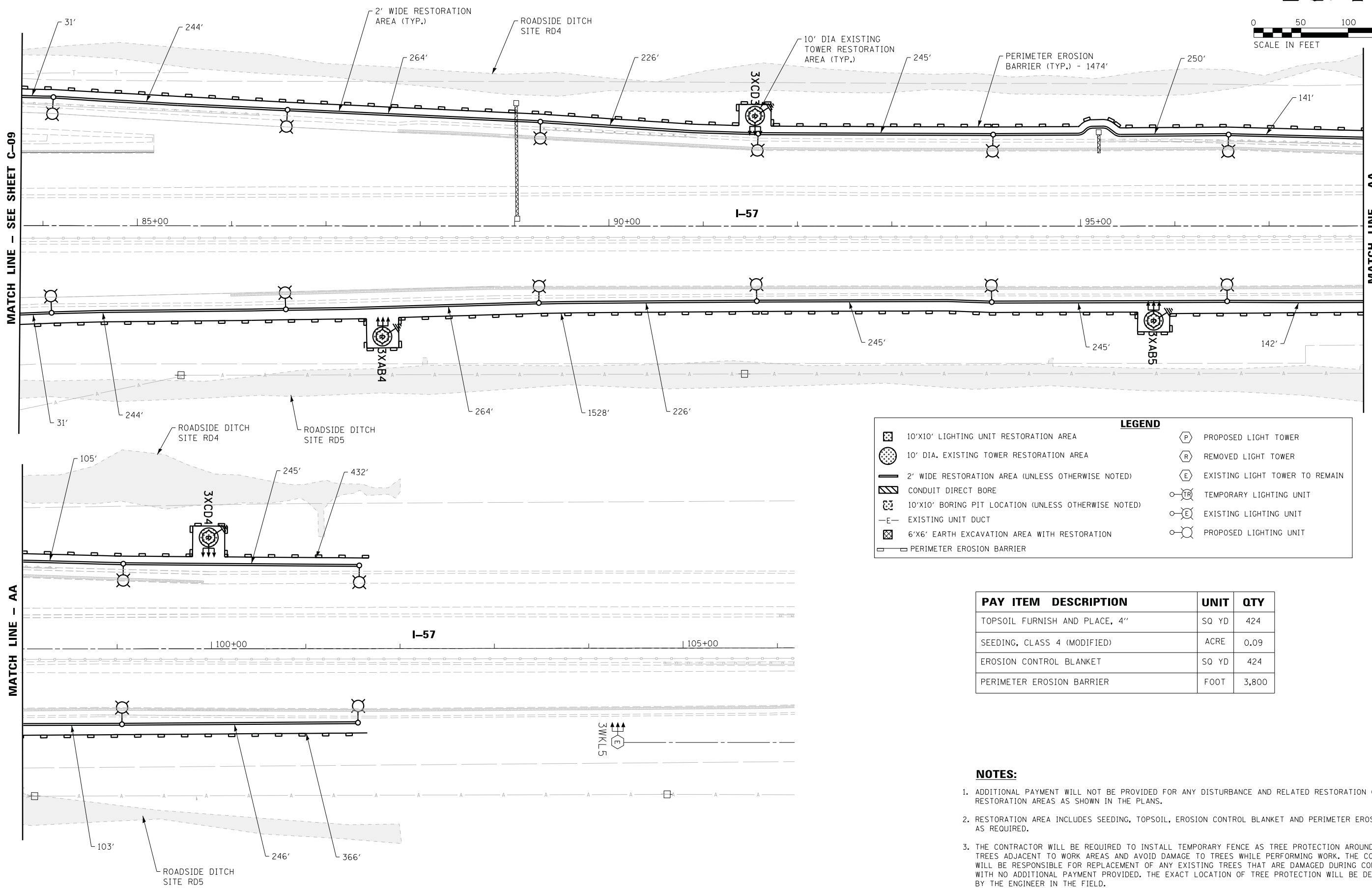
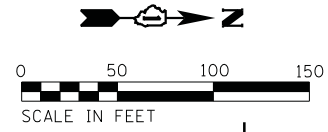


USER NAME = \$USER\$	DESIGNED - NS	REVISED -
DRAWN - NS	CHECKED - GC	REVISED -
DATE - 05-30-2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CIVIL SITE PLAN
I-57 /US-30 - SHEET 4 OF 5
SCALE: 1"=50' SHEET 4 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	14
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				



LEGEND	
	10'x10' LIGHTING UNIT RESTORATION AREA
	10' DIA. EXISTING TOWER RESTORATION AREA
	2' WIDE RESTORATION AREA (UNLESS OTHERWISE NOTED)
	CONDUIT DIRECT BORE
	10'x10' BORING PIT LOCATION (UNLESS OTHERWISE NOTED)
	EXISTING UNIT DUCT
	6'x6' EARTH EXCAVATION AREA WITH RESTORATION
	PERIMETER EROSION BARRIER
	PROPOSED LIGHT TOWER
	REMOVED LIGHT TOWER
	EXISTING LIGHT TOWER TO REMAIN
	TEMPORARY LIGHTING UNIT
	EXISTING LIGHTING UNIT
	PROPOSED LIGHTING UNIT

PAY ITEM	DESCRIPTION	UNIT	QTY
	TOPSOIL FURNISH AND PLACE, 4"	SO YD	424
	SEEDING, CLASS 4 (MODIFIED)	ACRE	0.09
	EROSION CONTROL BLANKET	SO YD	424
	PERIMETER EROSION BARRIER	FOOT	3,800

- NOTES:**
- ADDITIONAL PAYMENT WILL NOT BE PROVIDED FOR ANY DISTURBANCE AND RELATED RESTORATION OUTSIDE OF RESTORATION AREAS AS SHOWN IN THE PLANS.
 - RESTORATION AREA INCLUDES SEEDING, TOPSOIL, EROSION CONTROL BLANKET AND PERIMETER EROSION BARRIER AS REQUIRED.
 - THE CONTRACTOR WILL BE REQUIRED TO INSTALL TEMPORARY FENCE AS TREE PROTECTION AROUND INDIVIDUAL TREES ADJACENT TO WORK AREAS AND AVOID DAMAGE TO TREES WHILE PERFORMING WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING TREES THAT ARE DAMAGED DURING CONSTRUCTION WITH NO ADDITIONAL PAYMENT PROVIDED. THE EXACT LOCATION OF TREE PROTECTION WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

GENERAL NOTES:

- ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST CODES, STANDARDS, AND THE IDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED ON APRIL 2016, AND SUPPLEMENT SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED ON JAN 1, 2019.
- THE CONTRACTOR MUST VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT PLANS WHICH COULD AFFECT HIS WORK UNDER THIS CONTRACT FOR OPERATION OF THE EXISTING ROADWAY LIGHTING SYSTEM.
- NO MATERIAL OR EQUIPMENT SHALL BE DELIVERED TO THE JOB SITE WITHOUT PRIOR INSPECTION AND APPROVAL BY THE ENGINEER. ANY MATERIAL AND EQUIPMENT NOT APPROVED BY THE ENGINEER MUST BE REMOVED FROM JOB SITE AT THE CONTRACTOR'S EXPENSE.
- ALL UNDERGROUND UNIT DUCT SHALL BE 30 INCHES MINIMUM BELOW GRADE PER IDOT SECTION 810. UNIT DUCT MUST BE POSITIONED IN THE FIELD TO AVOID CONFLICT WITH UNDERDRAINS, AND UNDERGROUND UTILITIES.
- ALL SPLICING MUST BE IN TOWER / POLE BASES WITH WATERPROOF SEALANT AND HEAT SHRINKABLE PLASTIC CAPS. UNLESS NOTED OTHERWISE.
- TEMPORARY SUPPORTS FOR EXISTING UTILITIES SHALL BE PROVIDED IF REQUIRED.
- NO LIGHTING CIRCUIT OR PORTION THEREOF SHALL BE REMOVED FROM NIGHT TIME OPERATION OF EXISTING LIGHTING WITHOUT THE APPROVAL OF THE ENGINEER. ALL EXISTING LIGHTING SHALL OPERATE FROM DUSK TO DAWN DAILY FOR DURATION OF THE PROJECT TO MAINTAIN ILLUMINATION OF TRAVELED ROADWAYS.
- EXISTING LIGHTING TOWER / TEMPORARY LIGHTING WILL REMAIN OPERATIONAL UNTIL PROPOSED LIGHTING TOWER OR LIGHT POLES STARTS FUNCTIONING.
- SWITCHOVER OF CABLE CONNECTIONS TO PROPOSED LIGHTING TOWER OR LIGHT POLES FROM EXISTING LIGHTING TOWER / TEMPORARY LIGHTING POLES SHALL TAKE PLACE DURING DAY TIME.
- PROPOSED LIGHTING TOWER IN CONFLICT WITH THE EXISTING DITCH LINES SHALL BE INSTALLED BEHIND THE DITCHES AS APPROVED BY THE ENGINEER. NO TOWER SHALL BE INSTALLED AT THE BOTTOM OF DRAINAGE DITCHES OR IN ESTABLISHED LANDSCAPING.
- ALL EXCAVATION REQUIRED TO FACILITATE THE INSTALLATION OF PROPOSED LIGHT TOWER FOUNDATIONS AT SLOPED AREAS SHALL BE CONSIDERED INCIDENTAL TO THE TOWER FOUNDATIONS. NO SEPARATE PAYMENT WILL BE MADE.
- COUNTERWEIGHTS ON UN-USED TENONS SHALL BE MOUNTED TO BALANCE THE LUMINAIRE AS ACCEPTABLE TO THE ENGINEER.
- TOWER UNIT IDENTIFICATION LABEL SHALL BE PROVIDED AS PER ARTICLE 1069.06 TO THE PROPOSED TOWER TO MATCH WITH EXISTING ONE.
- CONTRACTOR SHALL REVIEW THE SOIL BORING LOGS AND SOIL TEST REPORTS FOR EACH PROPOSED LIGHTING TOWER, BEFORE START OF FOUNDATION AUGURING. EACH HOLE FOR THE FOUNDATION SHALL BE INSPECTED BY THE ENGINEER PRIOR TO POURING CONCRETE FOUNDATION. THE SOIL BORING LOGS REPRESENT POINT INFORMATION. PRESENTATION OF THE INFORMATION IN NO WAY IMPLIES THAT SUB SURFACE CONDITIONS ARE THE SAME AT LOCATIONS OTHER THAN THE EXACT LOCATION OF BORING.
- THE CONTRACTOR IS ADVISED THAT IN THE EVENT OF SNOW, HE SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF ANY MAINTENANCE OF TRAFFIC PROTECTIVE DEVICE REQUIRED FOR THE TRAFFIC OPERATIONS THAT WOULD INTERFERE WITH SNOW REMOVAL OPERATION PERFORMED BY THE STATE IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS.
- PROPOSED TOWER FOUNDATIONS ARE SHOWN AS APPROXIMATE LOCATIONS. IT CAN BE ADJUSTED IN THE FIELD TO AVOID EXISTING UNDERGROUND CABLE & UTILITY CONFLICTS, PER APPROVAL BY ENGINEER.
- THE PROPOSED TOWER FOUNDATION SHALL NOT BE PLACED CLOSER THAN 10 FT FROM EXISTING TOWER FOUNDATION. THE MINIMUM 10 FT SEPARATION IS MEASURED FROM EDGE OF PROPOSED FOUNDATION TO EDGE OF EXISTING FOUNDATION.
- REMOVAL AND DISPOSAL OF SURPLUS, UNSTABLE, UNSUITABLE, AND ORGANIC MATERIALS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 202 OF THE STANDARD SPECIFICATIONS.














CONTACT NOTES:

- CALL JULIE OR DIGGER FOR CABLE LOCATES, CALL IDOT EMC AT (708) 524-2145 FOR IDOT MAINTAINED CABLE LOCATES. THE PROPOSED TOWER FOUNDATIONS & PROPOSED UNIT DUCTS SHOULD ONLY BE INSTALLED AFTER THE LOCATES HAVE BEEN COMPLETED.

REMOVAL NOTES:

- LOCATIONS OF EXISTING LIGHTING TOWERS SHOWN ON PLAN DRAWINGS ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- PRIOR TO SUBMITTING A BID, THE CONTRACTOR SHALL REVIEW THE CONTRACT DRAWINGS AND ASCERTAIN EXISTING SITE CONDITIONS TO VERIFY THE EXTENT OF DEMOLITION. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR PERFORMING ALL REMOVAL REQUIRED IN THIS CONTRACT.
- COMMENCEMENT OF WORK SHALL BE CONSTRUED AS EVIDENCE THAT A CAREFUL EXAMINATION OF THE PORTIONS OF EXISTING FOUNDATIONS AND UNIT DUCT FOR THIS WORK AND ACCESS TO WORK SPACES, HAS BEEN MADE AND THAT THE CONTRACTOR IS FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT THE EXECUTION OF THE WORK. LATER CLAIMS SHALL NOT BE MADE FOR ADDITIONAL LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORSEEN DURING SUCH AN EXAMINATION.
- ALL SALVAGE EXISTING EQUIPMENT INCLUDING, TEMPORARY WOOD POLES, LUMINAIRES, MAST ARMS SHALL BE RETURNED TO STATE STOCK. THE CONTRACTOR SHALL CALL EMC AT (708) 524-2145 FOR MORE DETAILS AND DELIVERY PLACE.
- REMOVE EXISTING TOWER FOUNDATION, GROUND RODS, UNIT DUCT UP TO 10FT FROM THE CENTER OF FOUNDATION. THE VOID CAUSED BY THE REMOVAL OF THE TOWER FOUNDATION SHALL BE BACKFILLED WITH SUITABLE EXCAVATED MATERIAL APPROVED BY THE ENGINEER.
- LOCATIONS SELECTED FOR COLLECTION OF DEBRIS AND/OR STORAGE OF EQUIPMENT SHALL BE AS APPROVED BY THE ENGINEER.
- ALL EXISTING TOWERS TO BE REMOVED SHALL BE SCRAPPED AND DISPOSED OF IN A LEGAL MANNER.
- REMOVAL OF TEMPORARY LIGHTING UNIT SHALL INCLUDE POLE, AERIAL CABLE, LUMINAIRE, MAST ARM AND ALL ASSOCIATED APPARATUS AND CONNECTIONS. ALL TEMPORARY LIGHT LUMINAIRES WILL BE INSPECTED BY THE ENGINEER BEFORE BEING BOXED IN NEW CONTAINERS AND DELIVERED TO STORAGE FACILITY OF IDOT DISTRICT 1.
- TOWER CONCRETE FOUNDATION SHALL BE REMOVED TO AT LEAST 2 FT BELOW GRADE. REMOVE EXISTING WORK PAD WHERE APPLICABLE. THE COST OF THIS SHALL BE INCLUDED IN FOUNDATION REMOVAL UNLESS NOTED OTHERWISE.
- VERIFY AND LOCATE UNDERGROUND CIRCUIT (UNIT DUCTS) ROUTING OF TOWERS UNDER REPLACEMENT AS PER SECTION 803. MARK THE ROUTING SO THAT DURING DIGGING OF TRENCH FOR PROPOSED UNIT DUCT THE EXISTING UNIT DUCT IS PROTECTED TO MAINTAIN THE LIGHTING SYSTEM IN OPERATION. IF THE PROPOSED TOWER FOUNDATION COMES ON EXISTING UNIT DUCT, RE-ROUTE THE UNIT DUCT TEMPORARY UNTIL PROPOSED TOWER STARTS FUNCTIONING.

SYMBOL LEGEND:

-  REMOVE OF EXISTING LIGHTING TOWER AND FOUNDATION, EXISTING TOWER TO BE SCRAPPED. HIGH MAST LUMINAIRES TO BE SALVAGED.
-  EXISTING LIGHTING TOWER TO REMAIN, EXISTING LUMINAIRES AS PER PLAN
-  PROPOSED LIGHTING TOWER ON NEW FOUNDATION, PROPOSED LUMINAIRES, NUMBER OF LUMINAIRES AS PER PLAN HANDHOLE ORIENTATION
-  REMOVE TOWER FOUNDATION ONLY
-  EXISTING TEMPORARY LIGHTING UNIT TO BE REMOVED AND SALVAGED TO IDOT
-  EXISTING LIGHTING UNIT TO REMAIN
-  REMOVE EXISTING AERIAL CABLE AND MESSANGER WIRE
-  EXISTING UNIT DUCT, SIZE AS PER PLANS
-  UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
-  PROPOSED UNIT DUCT, SIZE AS PER PLANS
-  EXISTING LIGHTING CONTROLLER
-  GROUND ROD, 5/8" DIA x 10' LONG
-  PROPOSED LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM METAL FOUNDATION, 10" X 8' LONG BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C LUMINAIRE SAFETY CABLE ASSEMBLY

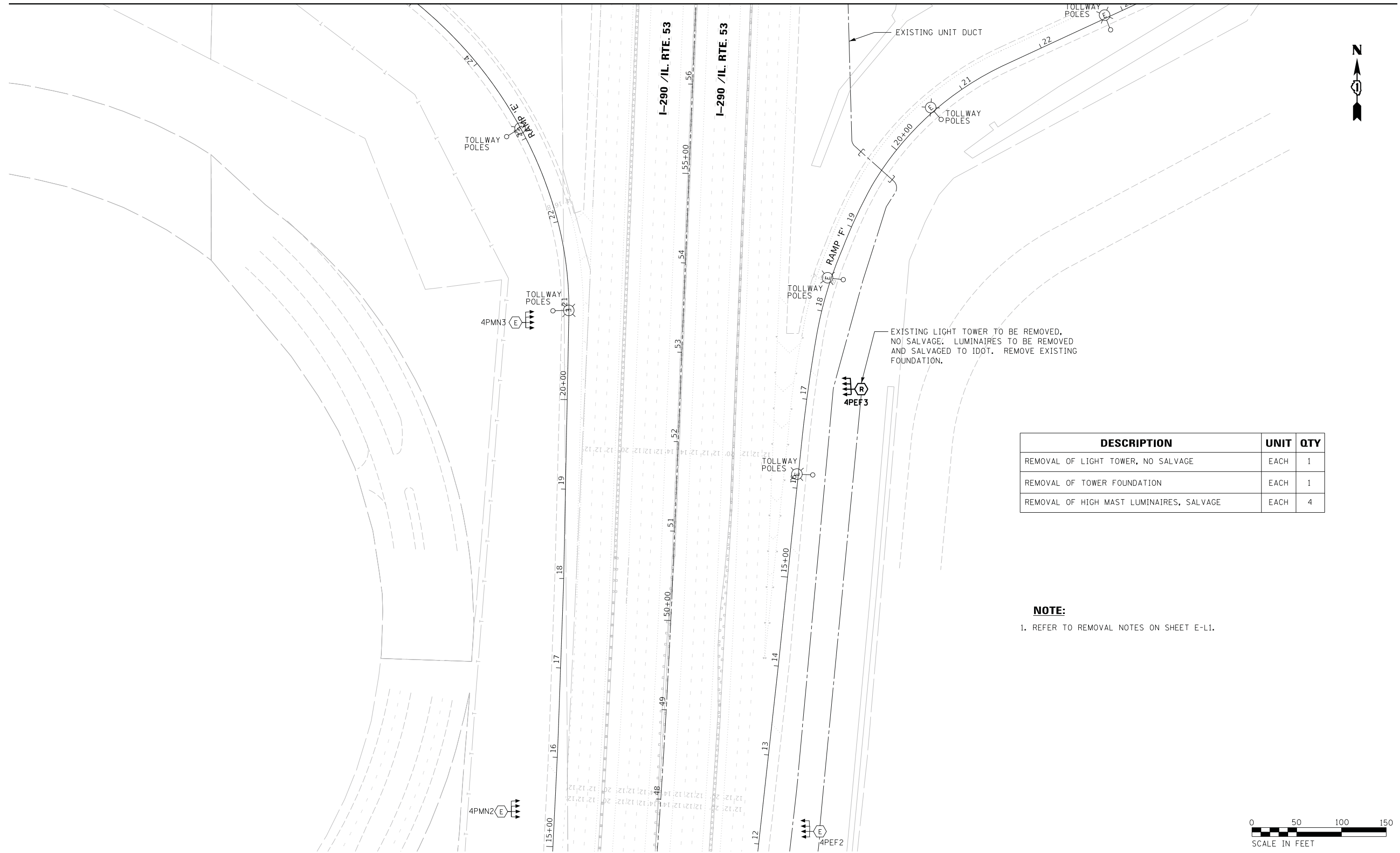
ABBREVIATIONS:

- E EXISTING TO REMAIN
- E.O.P. EDGE OF PAVEMENT
- EMC ELECTRICAL MAINTENANCE CONTRACT
- FT FEET OR FOOT
- GND GROUND
- JB JUNCTION BOX
- MA MAST ARM
- NO. NUMBER
- N.T.S. NOT TO SCALE
- P PROPOSED
- PVC POLYVINYL CHLORIDE
- RGS RIGID GALVANISED STEEL
- R REMOVE
- STA. STATION
- U.N.O. UNLESS NOTED OTHERWISE
- HPS HIGH PRESSURE SODIUM

 DELTA ENGINEERING GROUP, LLC	USER NAME : *\$USER*	DESIGNED - HM	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SYMBOLS LEGEND, GENERAL NOTES AND REMOVAL NOTES			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - MS	CHECKED - HS	REVISED -		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	2018-131-L	COOK	63	16	
PLOT SCALE : *\$SCALE*	DATE - 05-30-2019	REVISED -				CONTRACT NO. 62H54						
PLOT DATE : *\$DATE*	REVISED -							ILLINOIS FED. AID PROJECT				

MATCH LINE - SEE SHEET E-LR2

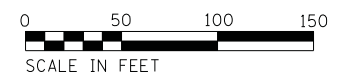
MATCH LINE - SEE SHEET E-LR3



DESCRIPTION	UNIT	QTY
REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	1
REMOVAL OF TOWER FOUNDATION	EACH	1
REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	4

NOTE:

1. REFER TO REMOVAL NOTES ON SHEET E-L1.



E-LR1



USER NAME = *USER*	DESIGNED - HM	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = *SCALE*	CHECKED - HS	REVISED -
PLOT DATE = *DATE*	DATE - 05-30-2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

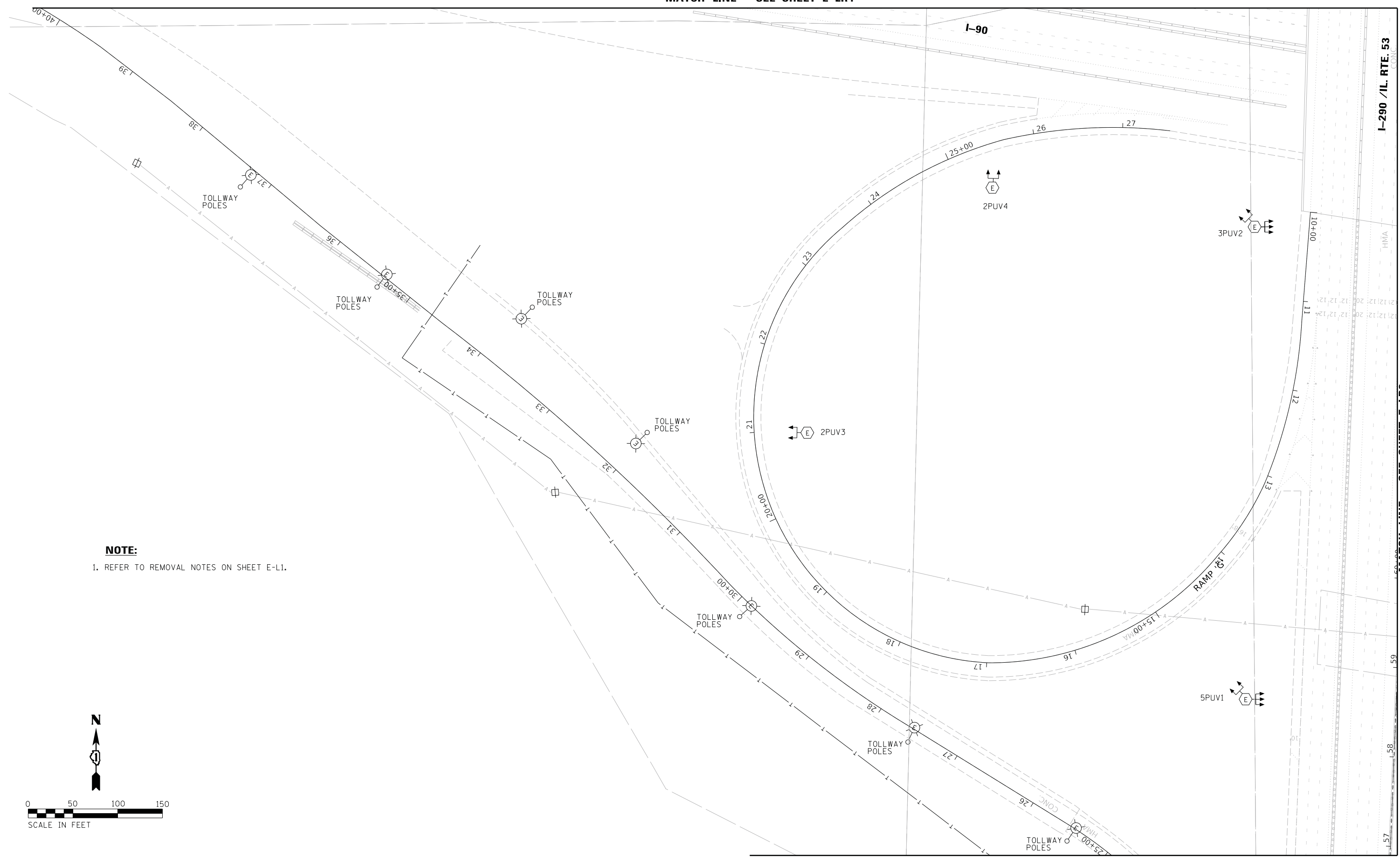
LIGHTING REMOVAL PLAN			
I-290 /IL-53 - SHEET 1 OF 5			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	17
			CONTRACT NO. 62H54	
ILLINOIS FED. AID PROJECT				

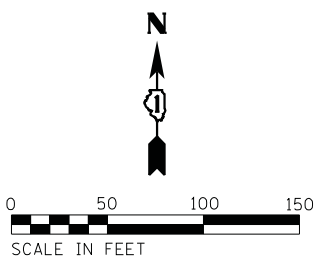
MATCH LINE - SEE SHEET E-LR4

I-290 / I.L. RTE. 53
CONC.

MATCH LINE - SEE SHEET E-LR3



NOTE:
1. REFER TO REMOVAL NOTES ON SHEET E-L1.



MATCH LINE - SEE SHEET E-LR1

E-LR2



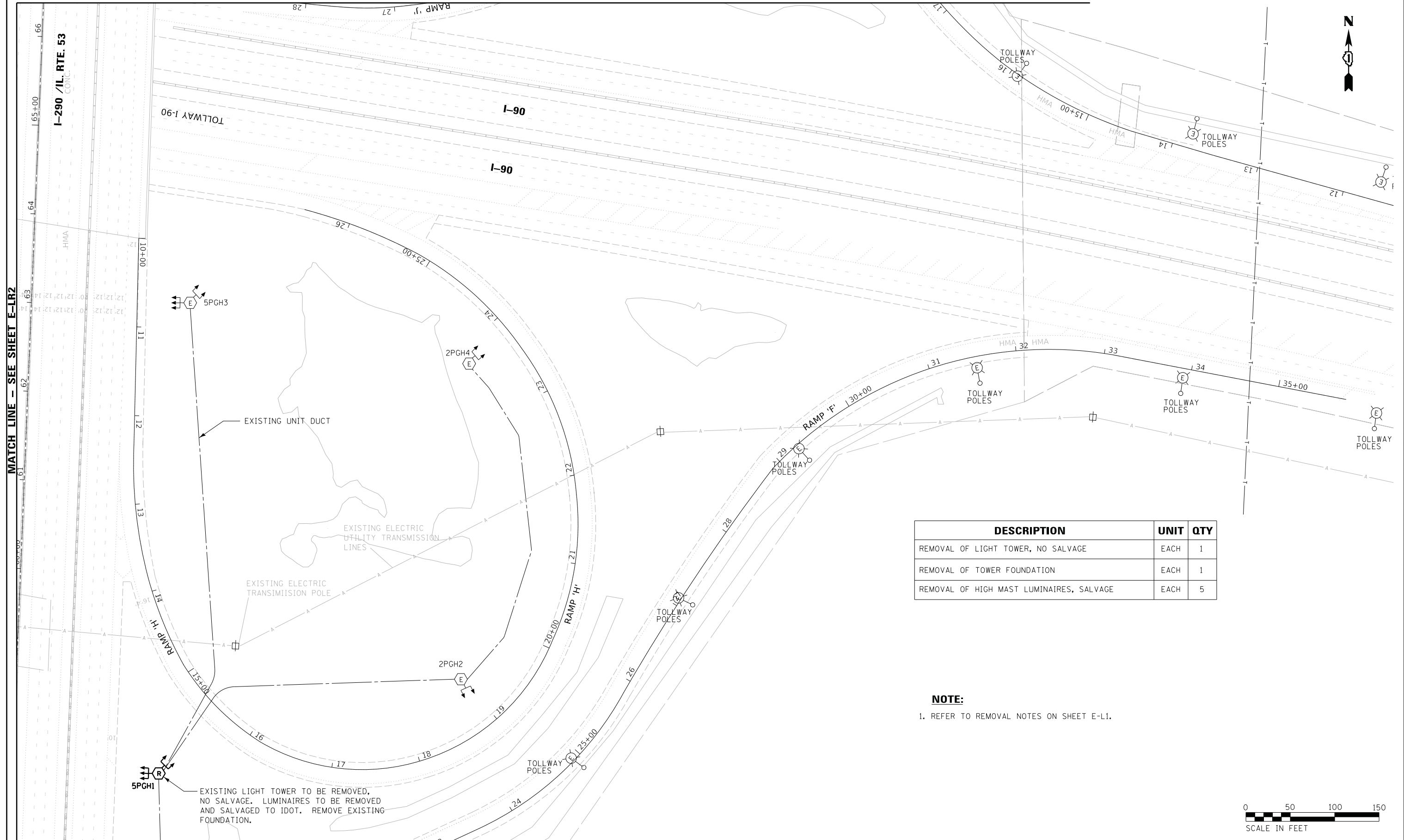
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PLOT SCALE = *SCALE*	CHECKED - HS	REVISED -
PLOT DATE = *DATE*	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN			
I-290 / I.L-53 - SHEET 2 OF 5			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

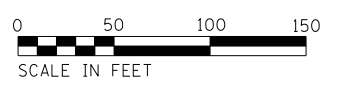
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	18
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

MATCH LINE - SEE SHEET E-LR5



DESCRIPTION	UNIT	QTY
REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	1
REMOVAL OF TOWER FOUNDATION	EACH	1
REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	5

NOTE:
1. REFER TO REMOVAL NOTES ON SHEET E-L1.



MATCH LINE - SEE SHEET E-LR1

E-LR3



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - MS	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN
I-290 /IL-53 - SHEET 3 OF 5

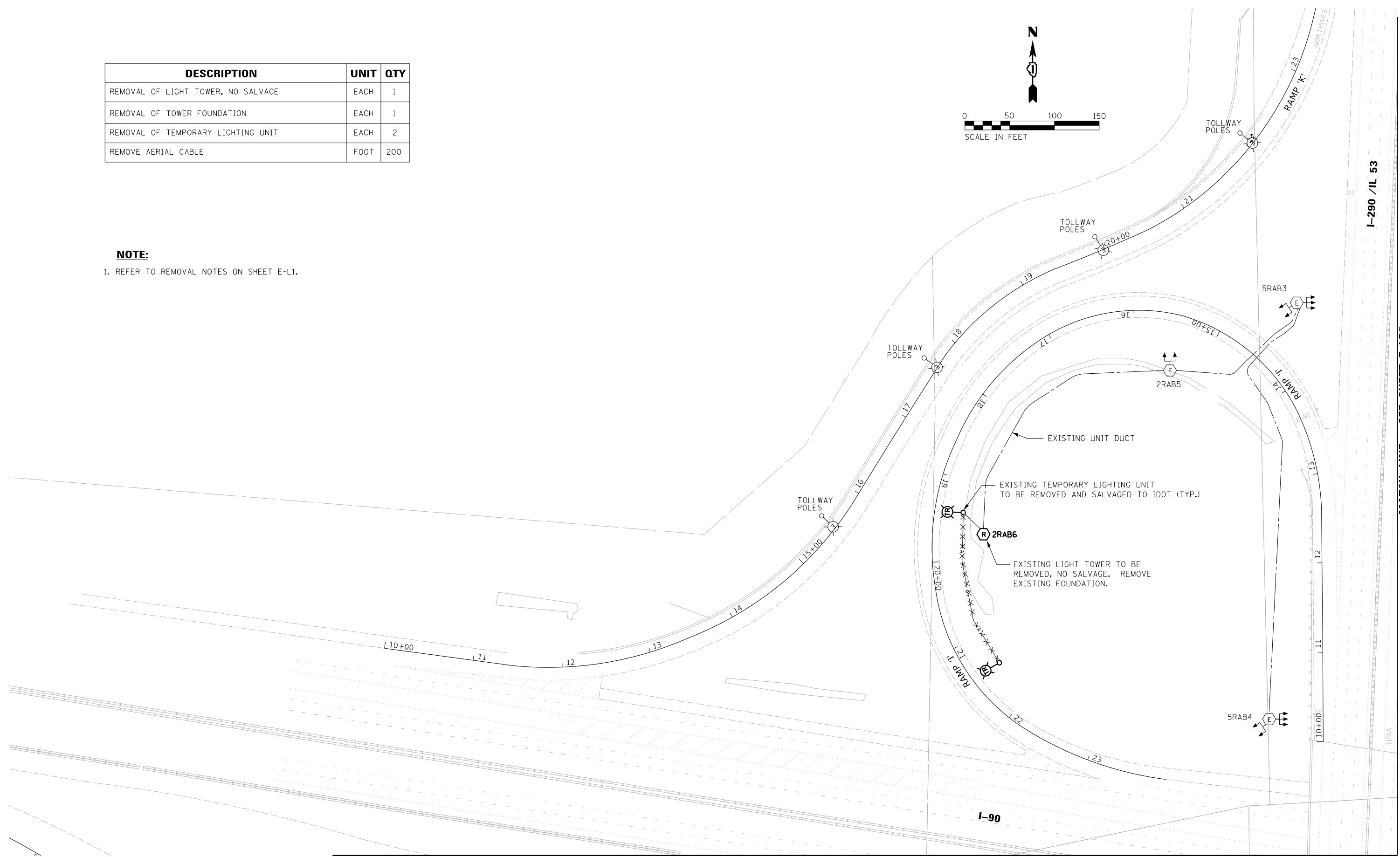
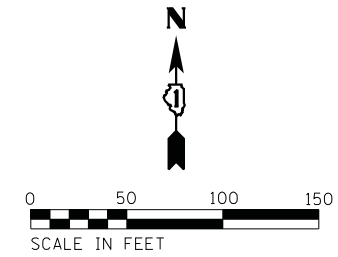
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	19
			CONTRACT NO. 62H54	
ILLINOIS FED. AID PROJECT				

DESCRIPTION	UNIT	QTY
REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	1
REMOVAL OF TOWER FOUNDATION	EACH	1
REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	2
REMOVE AERIAL CABLE	FOOT	200

NOTE:

1. REFER TO REMOVAL NOTES ON SHEET E-L1.



MATCH LINE - SEE SHEET E-LR2

E-LR4



USER NAME = *USER*	DESIGNED - HM	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = *SCALE*	CHECKED - HS	REVISED -
PLOT DATE = *DATE*	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN			
I-290 /IL-53 - SHEET 4 OF 5			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	20
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

MATCH LINE - SEE SHEET E-LR5

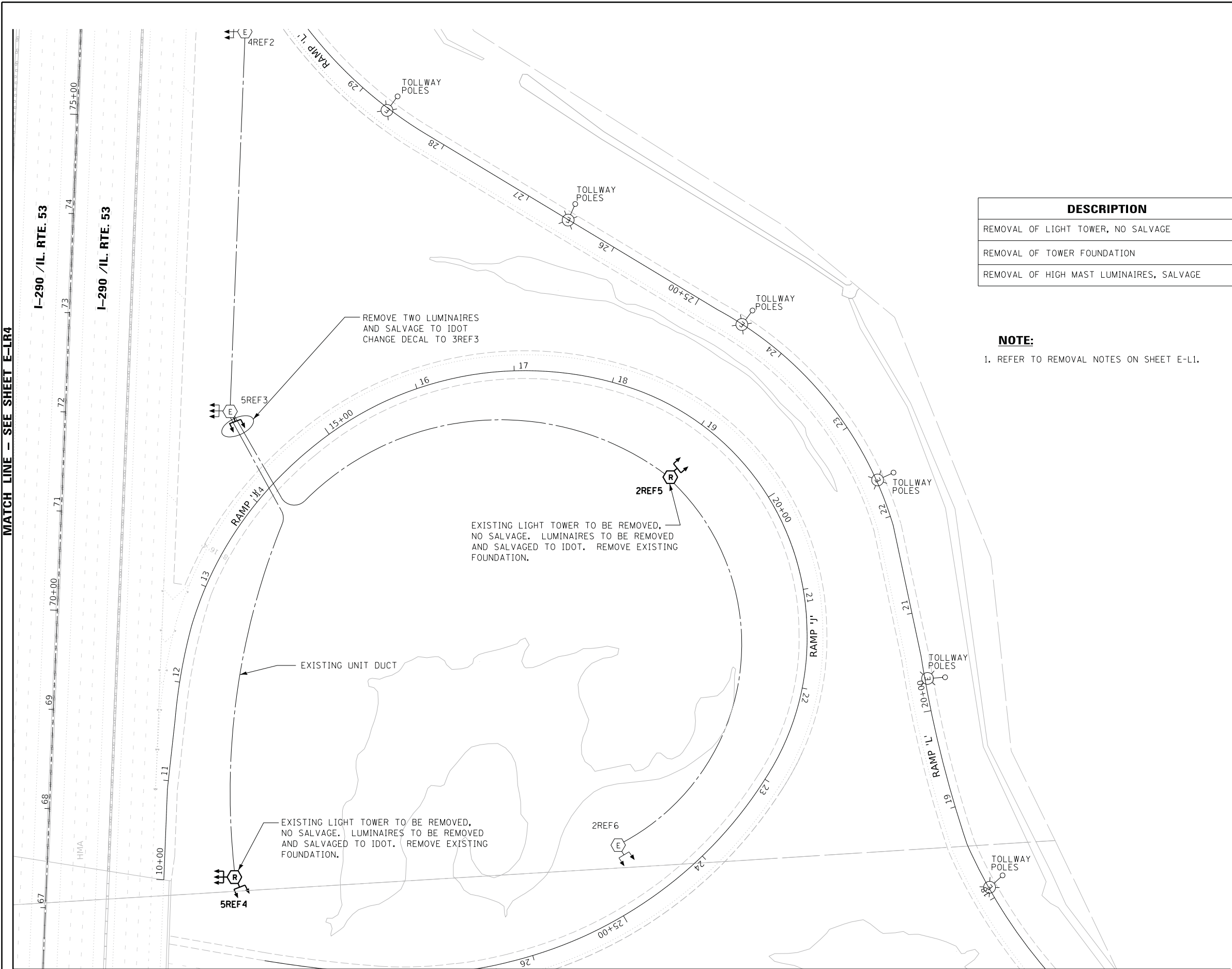
I-290 /IL 53



DESCRIPTION	UNIT	QTY
REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	2
REMOVAL OF TOWER FOUNDATION	EACH	2
REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	9

NOTE:

1. REFER TO REMOVAL NOTES ON SHEET E-L1.



MATCH LINE - SEE SHEET E-LR4

MATCH LINE - SEE SHEET E-LR3

E-LR5



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - MS	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

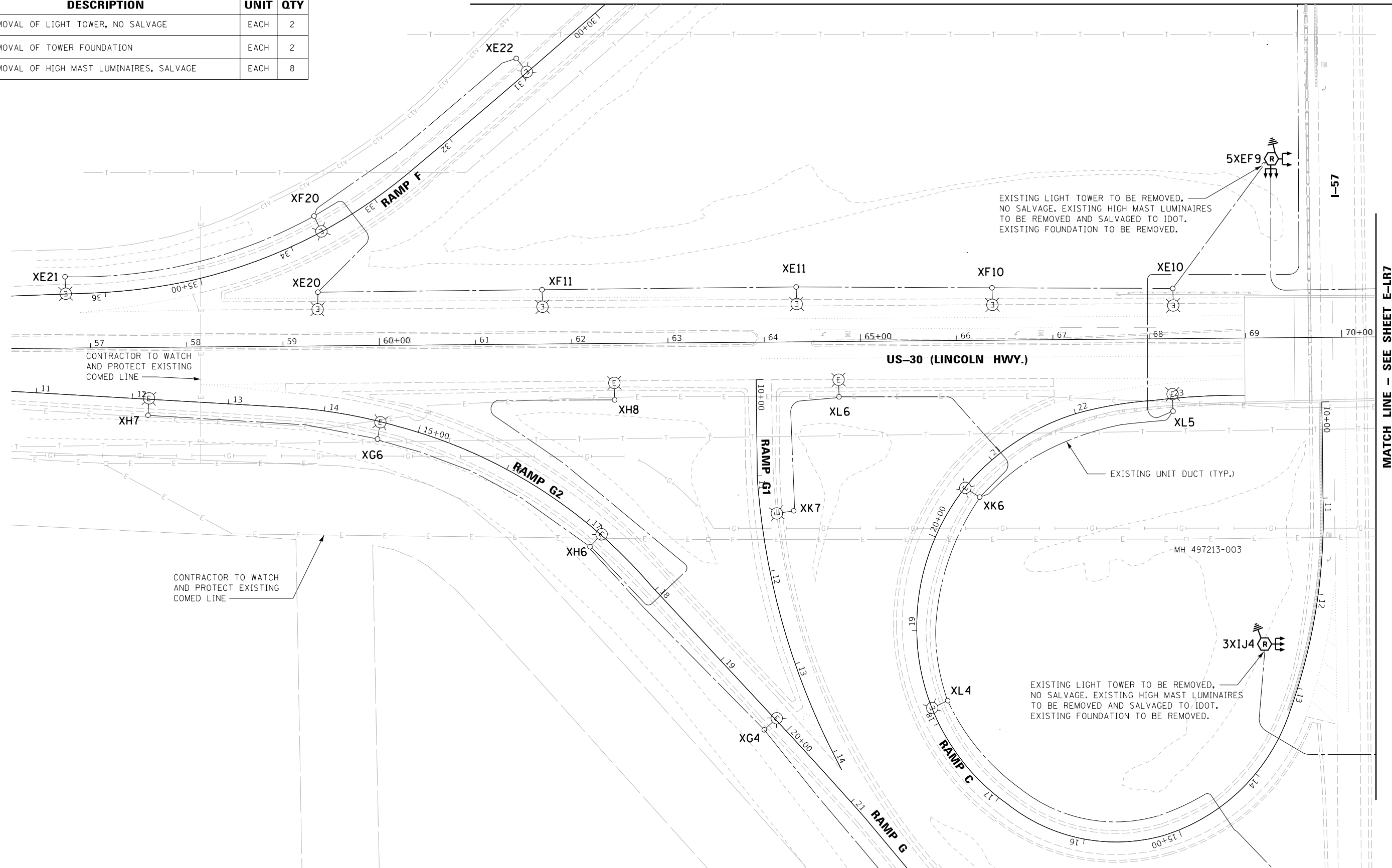
LIGHTING REMOVAL PLAN
I-290 /IL-53 - SHEET 5 OF 5

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	21
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

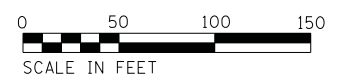
DESCRIPTION	UNIT	QTY
REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	2
REMOVAL OF TOWER FOUNDATION	EACH	2
REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	8

MATCH LINE - SEE SHEET E-LR9



MATCH LINE - SEE SHEET E-LR7

MATCH LINE - SEE SHEET E-LR8



E-LR6



USER NAME = *USER*	DESIGNED - HM	REVISED -
DRAWN - MS	REVISIONS -	
PLOT SCALE = *SCALE*	CHECKED - HS	REVISIONS -
PLOT DATE = *DATE*	DATE - 05-30-2019	REVISIONS -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

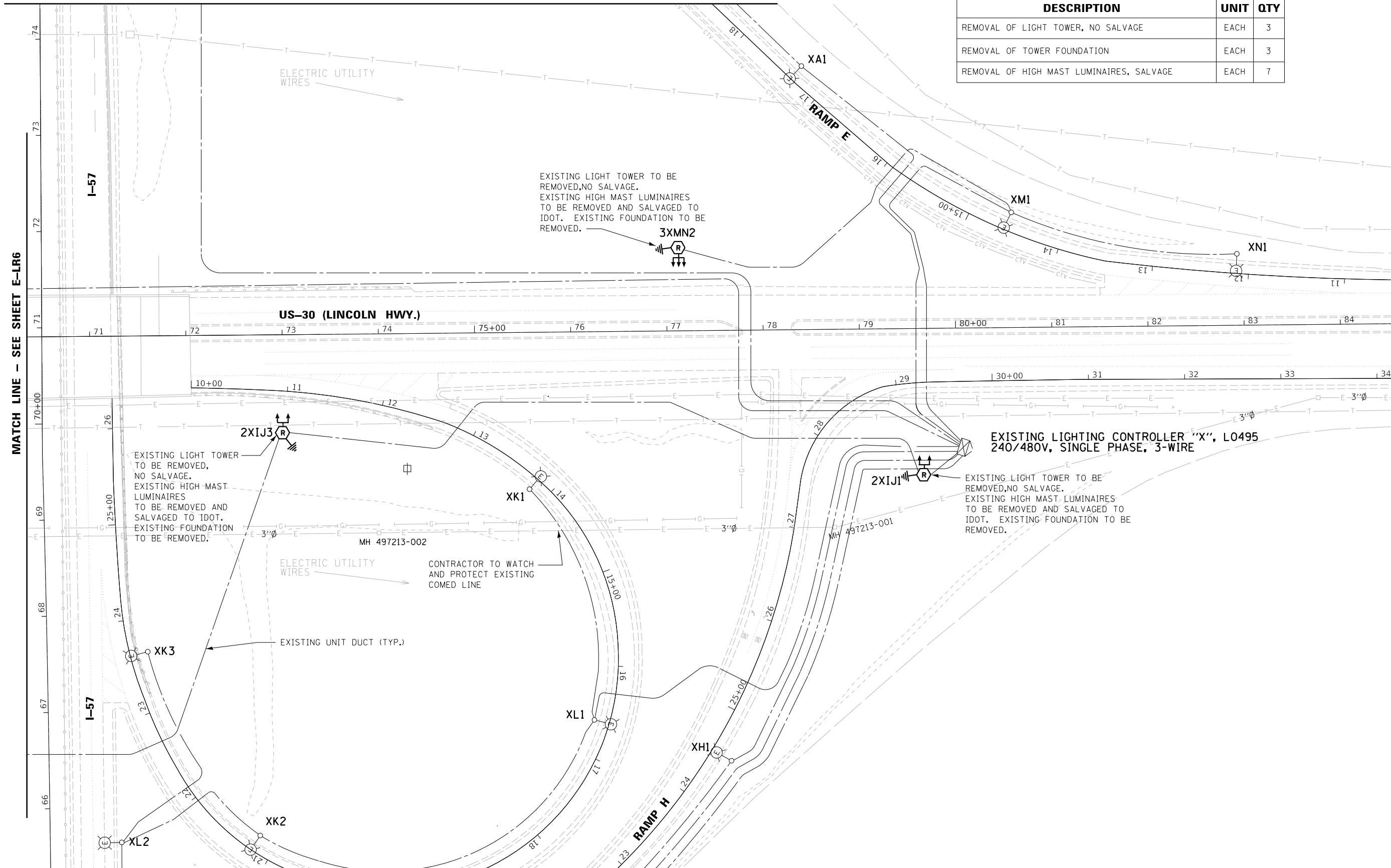
LIGHTING REMOVAL PLAN
I-57 / US-30 - SHEET 1 OF 5

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	22
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

MATCH LINE - SEE SHEET E-LR9

DESCRIPTION	UNIT	QTY
REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	3
REMOVAL OF TOWER FOUNDATION	EACH	3
REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	7



EXISTING LIGHT TOWER TO BE REMOVED, NO SALVAGE. EXISTING HIGH MAST LUMINAIRES TO BE REMOVED AND SALVAGED TO IDOT. EXISTING FOUNDATION TO BE REMOVED.

EXISTING LIGHT TOWER TO BE REMOVED, NO SALVAGE. EXISTING HIGH MAST LUMINAIRES TO BE REMOVED AND SALVAGED TO IDOT. EXISTING FOUNDATION TO BE REMOVED.

EXISTING LIGHTING CONTROLLER "X", L0495 240/480V, SINGLE PHASE, 3-WIRE

EXISTING LIGHT TOWER TO BE REMOVED, NO SALVAGE. EXISTING HIGH MAST LUMINAIRES TO BE REMOVED AND SALVAGED TO IDOT. EXISTING FOUNDATION TO BE REMOVED.

CONTRACTOR TO WATCH AND PROTECT EXISTING COMED LINE

ELECTRIC UTILITY WIRES

EXISTING UNIT DUCT (TYP.)

MATCH LINE - SEE SHEET E-LR8



E-LR7



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - MS	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

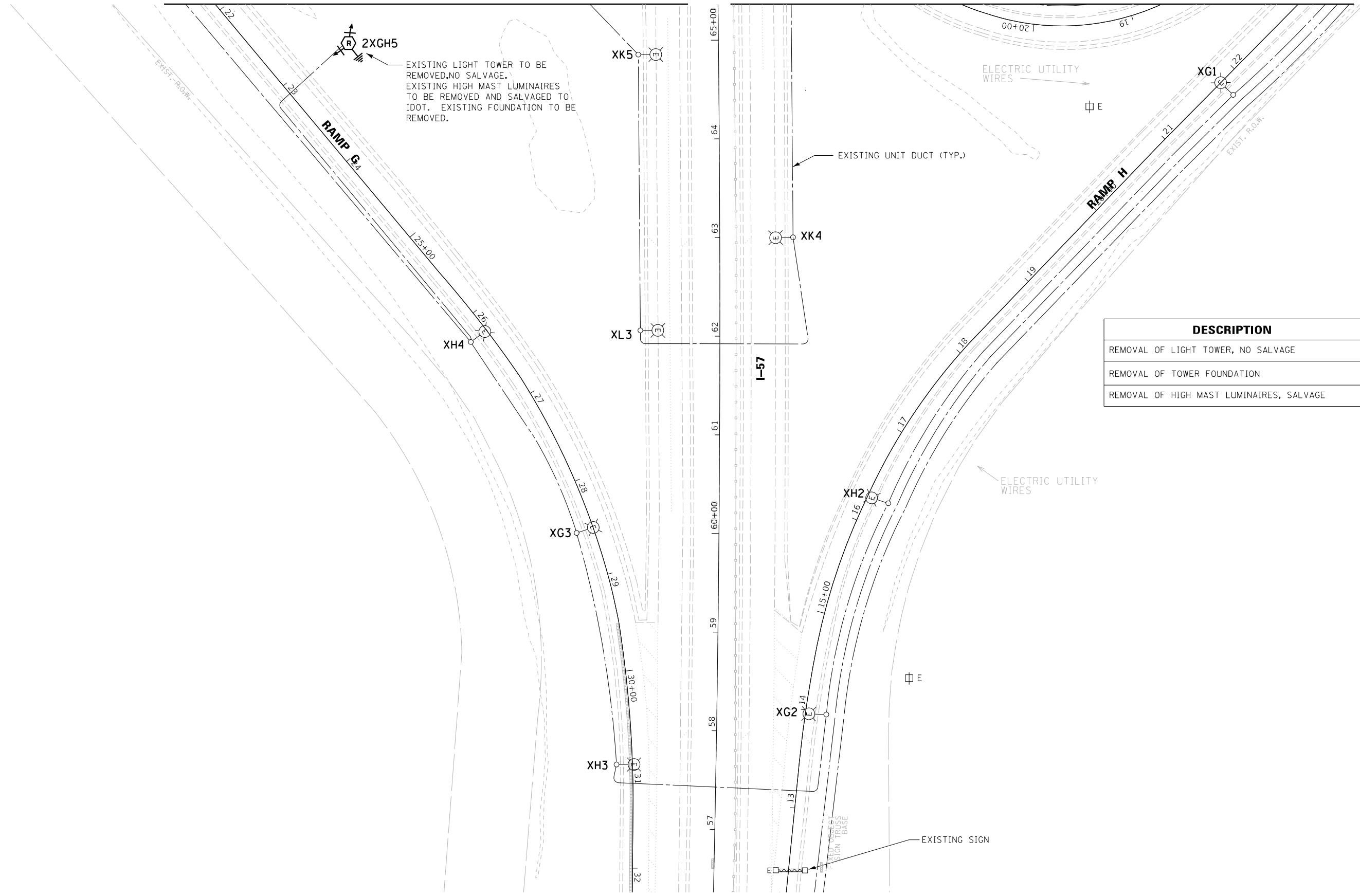
LIGHTING REMOVAL PLAN
I-57 / US-30 - SHEET 2 OF 5

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	23
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H54	

MATCH LINE - SEE SHEET E-LR6

MATCH LINE - SEE SHEET E-LR7



DESCRIPTION	UNIT	QTY
REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	1
REMOVAL OF TOWER FOUNDATION	EACH	1
REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	2



USER NAME = #USER#	DESIGNED - HM	REVISED -
PLOT SCALE = #SCALE#	DRAWN - MS	REVISED -
PLOT DATE = #DATE#	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

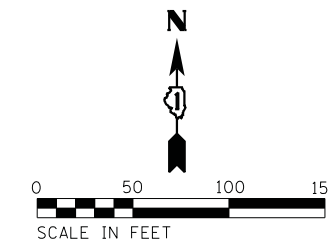
LIGHTING REMOVAL PLAN
I-57 / US-30 - SHEET 3 OF 5

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	24
			CONTRACT NO. 62H54	
ILLINOIS FED. AID PROJECT				

E-LR8

MATCH LINE - SEE SHEET E-LR10

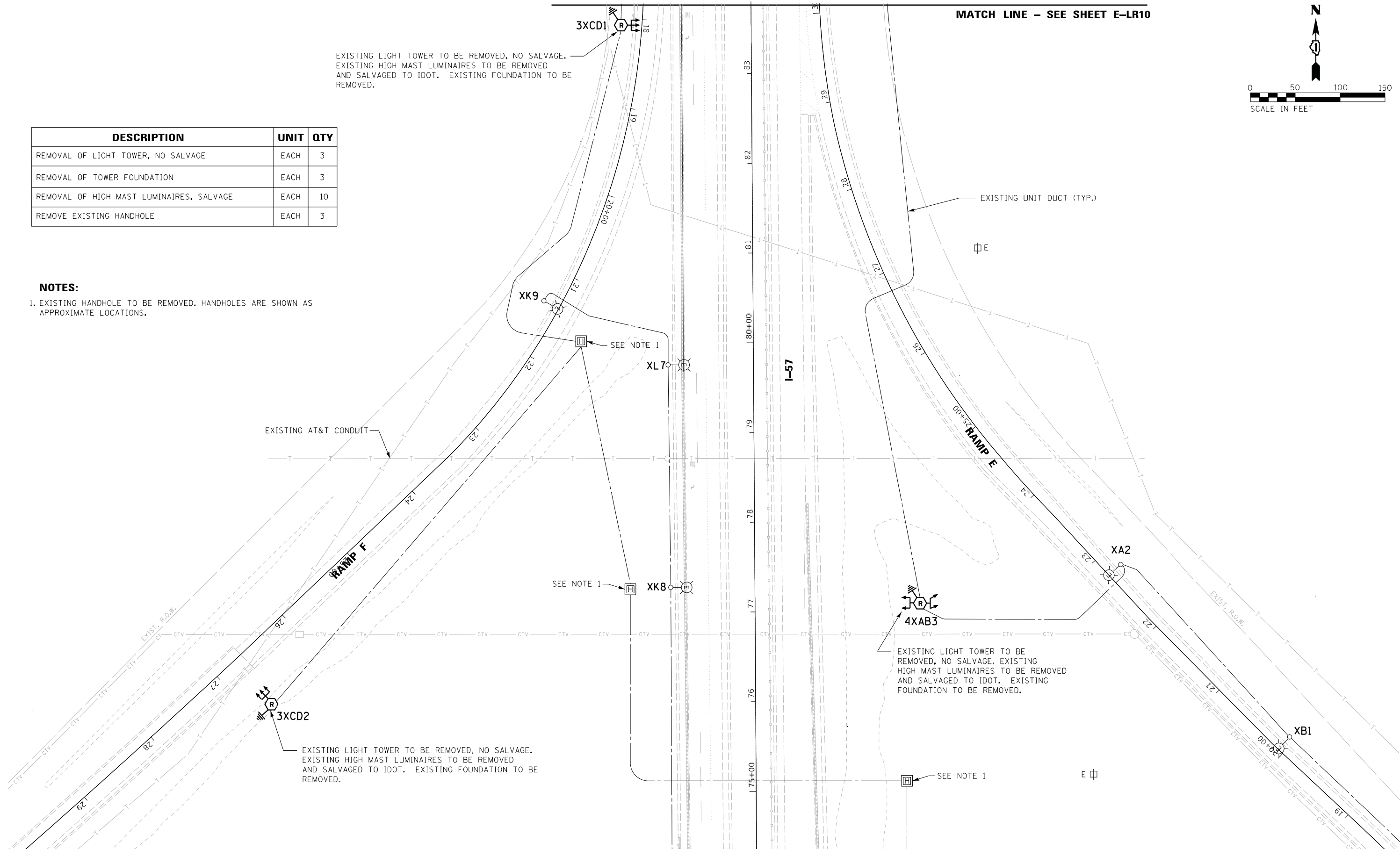


EXISTING LIGHT TOWER TO BE REMOVED, NO SALVAGE.
EXISTING HIGH MAST LUMINAIRES TO BE REMOVED
AND SALVAGED TO IDOT. EXISTING FOUNDATION TO BE
REMOVED.

DESCRIPTION	UNIT	QTY
REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	3
REMOVAL OF TOWER FOUNDATION	EACH	3
REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	10
REMOVE EXISTING HANDHOLE	EACH	3

NOTES:

1. EXISTING HANDHOLE TO BE REMOVED. HANDHOLES ARE SHOWN AS APPROXIMATE LOCATIONS.



MATCH LINE - SEE SHEET E-LR6

MATCH LINE - SEE SHEET E-LR7

E-LR9



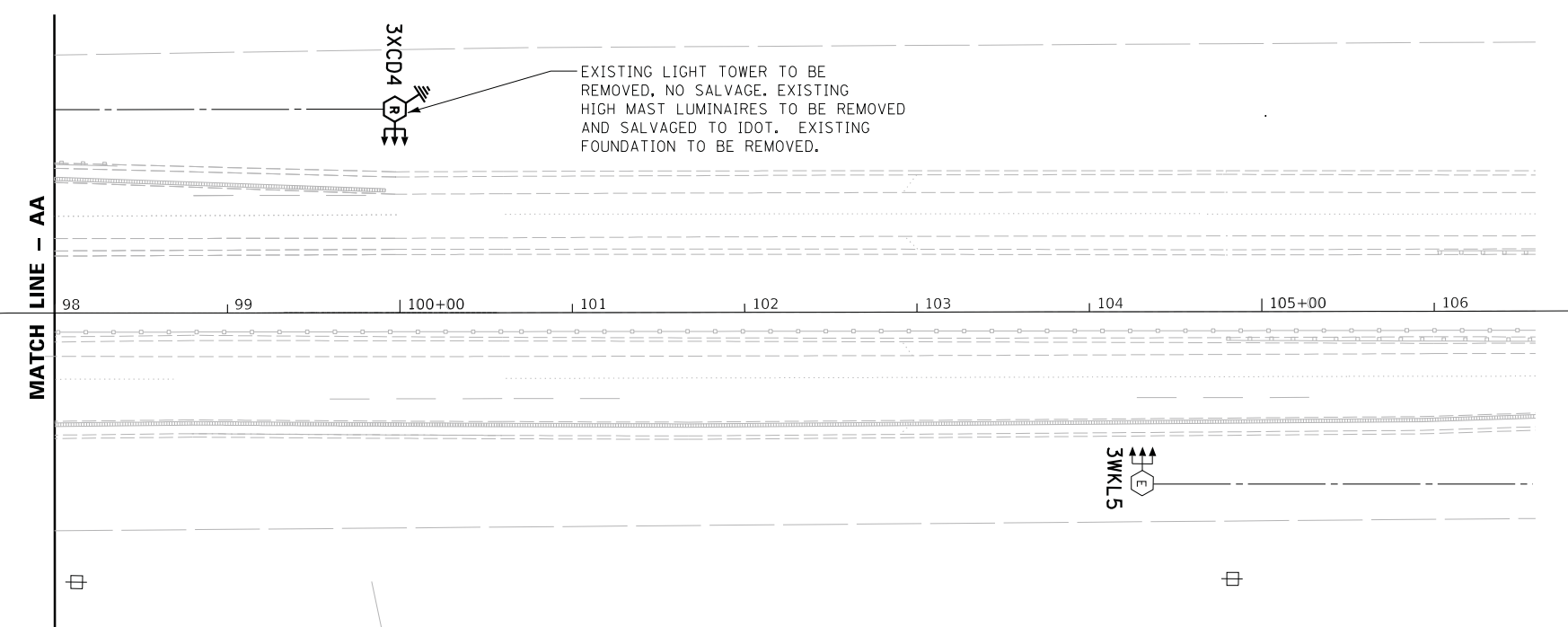
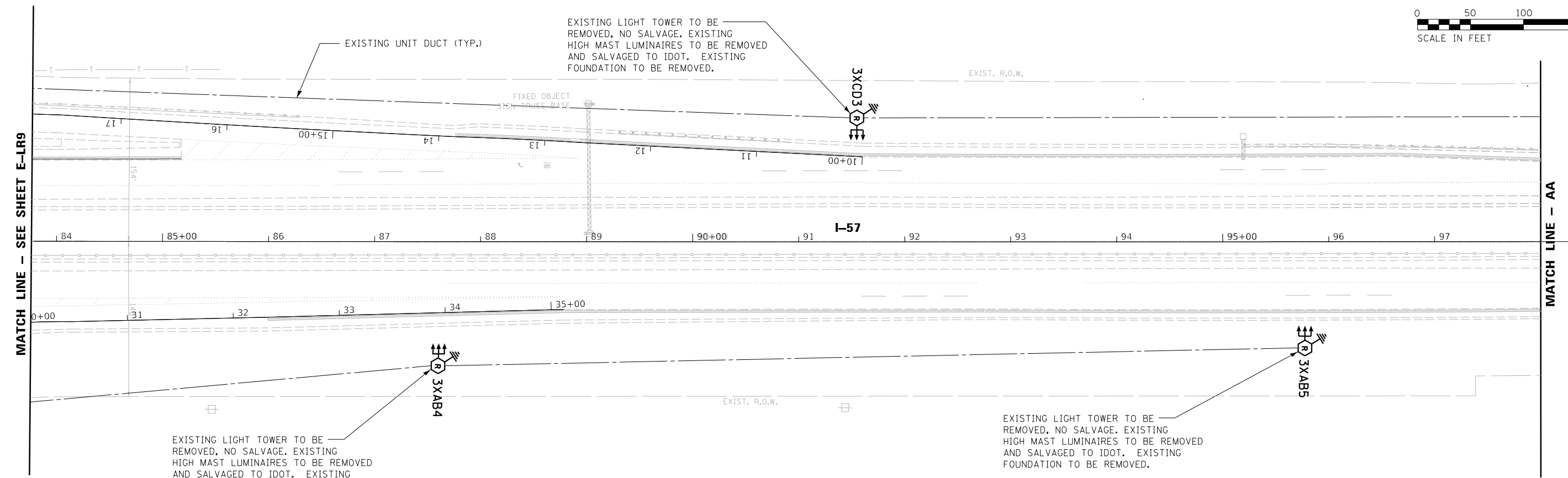
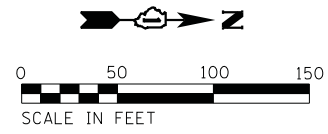
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	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING REMOVAL PLAN
I-57 /US-30 - SHEET 4 OF 5

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	25
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H54	



DESCRIPTION	UNIT	QTY
REMOVAL OF LIGHT TOWER, NO SALVAGE	EACH	4
REMOVAL OF TOWER FOUNDATION	EACH	4
REMOVAL OF HIGH MAST LUMINAIRES, SALVAGE	EACH	12



USER NAME = \$USER*	DESIGNED - HM	REVISED -
PLOT SCALE = \$SCALE*	DRAWN - MS	REVISED -
PLOT DATE = \$DATE*	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING REMOVAL PLAN
I-57 /US-30 - SHEET 5 OF 5**

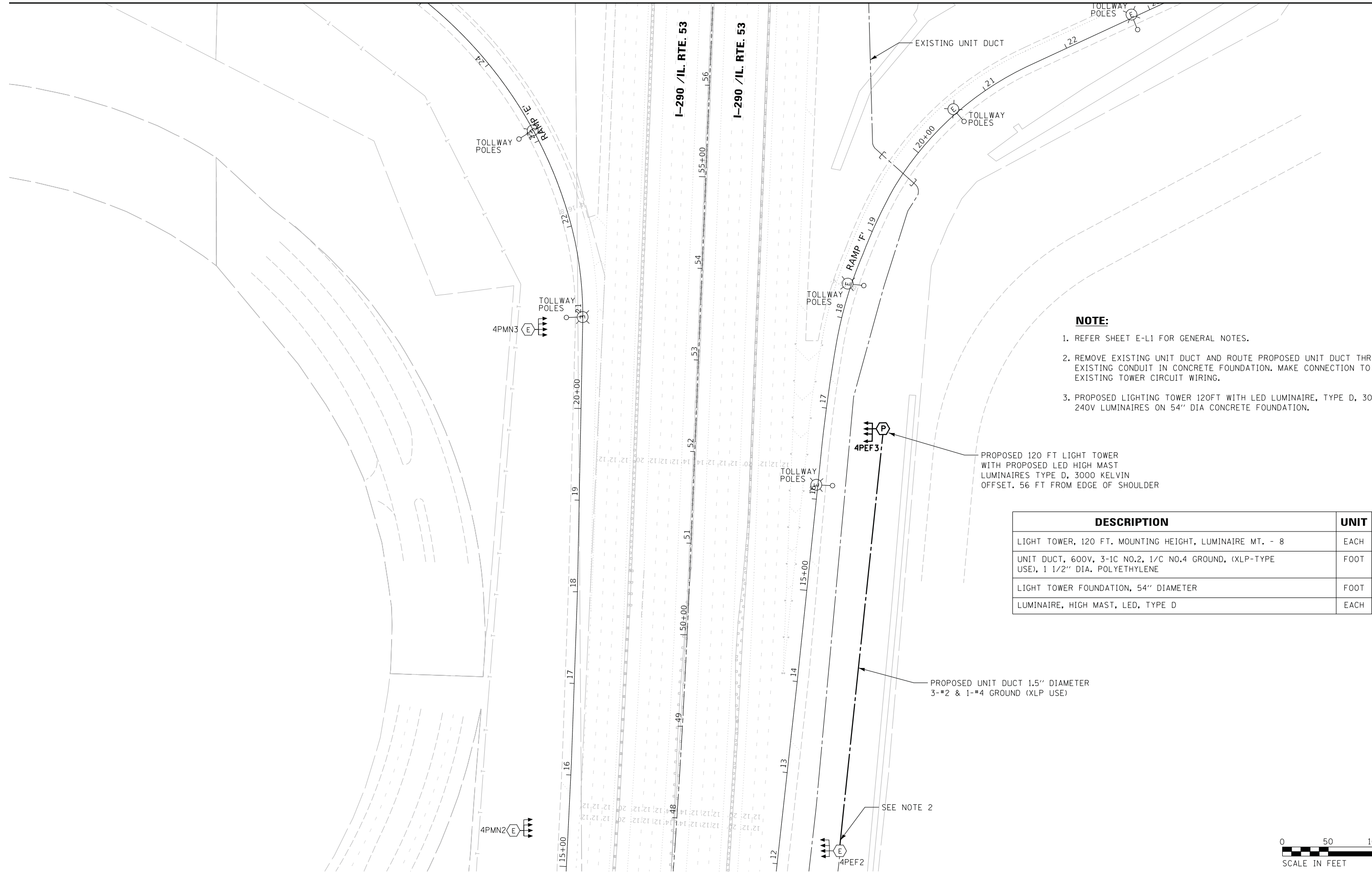
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	26
			CONTRACT NO. 62H54	
ILLINOIS FED. AID PROJECT				

E-LR10

MATCH LINE - SEE SHEET E-LT2

MATCH LINE - SEE SHEET E-LT3



NOTE:

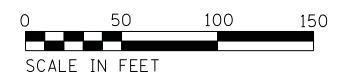
1. REFER SHEET E-L1 FOR GENERAL NOTES.
2. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
3. PROPOSED LIGHTING TOWER 120FT WITH LED LUMINAIRE, TYPE D, 3000 KELVIN, 240V LUMINAIRES ON 54" DIA CONCRETE FOUNDATION.

PROPOSED 120 FT LIGHT TOWER WITH PROPOSED LED HIGH MAST LUMINAIRES TYPE D, 3000 KELVIN OFFSET. 56 FT FROM EDGE OF SHOULDER

DESCRIPTION	UNIT	QTY
LIGHT TOWER, 120 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8	EACH	1
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	485
LIGHT TOWER FOUNDATION, 54" DIAMETER	FOOT	20
LUMINAIRE, HIGH MAST, LED, TYPE D	EACH	4

PROPOSED UNIT DUCT 1.5" DIAMETER 3-#2 & 1-#4 GROUND (XLP USE)

SEE NOTE 2



E-LT1



USER NAME = \$USER*	DESIGNED - HM	REVISED -
	DRAWN - MS	REVISED -
PLOT SCALE = \$SCALE*	CHECKED - HS	REVISED -
PLOT DATE = \$DATE*	DATE - 05-30-2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
I-290 /IL-53 - SHEET 1 OF 5**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	27
			CONTRACT NO. 62H54	
ILLINOIS FED. AID PROJECT				

MATCH LINE - SEE SHEET E-LT4

I-90

I-290 /IL. RTE. 53
CONC

MATCH LINE - SEE SHEET E-LT3

HMA

HMA

HMA

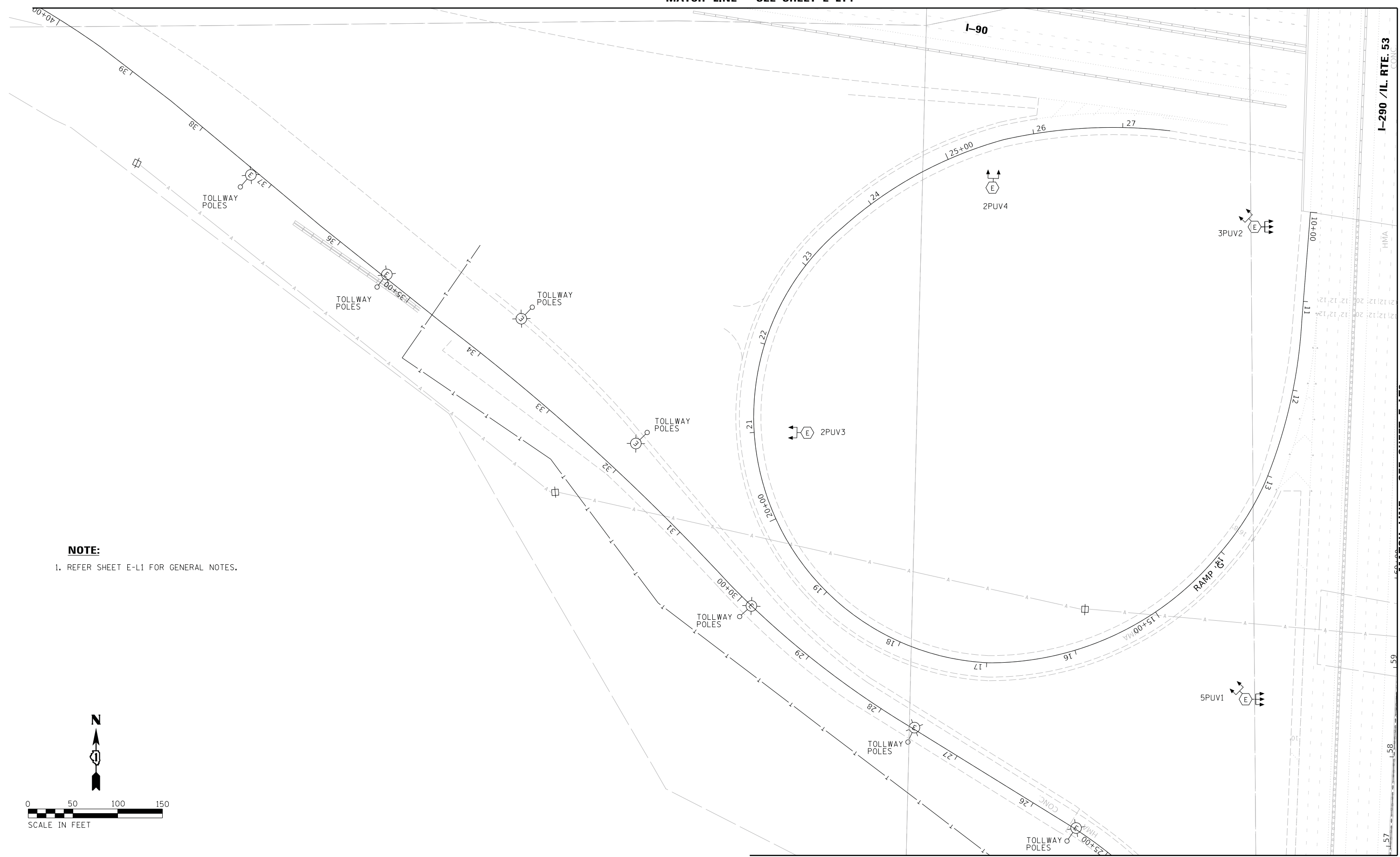
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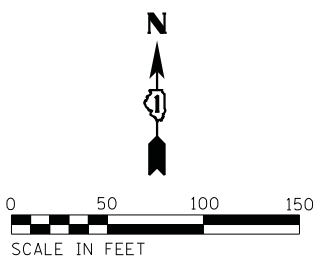
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HMA

HMA



NOTE:
1. REFER SHEET E-L1 FOR GENERAL NOTES.



MATCH LINE - SEE SHEET E-LT1

E-LT2



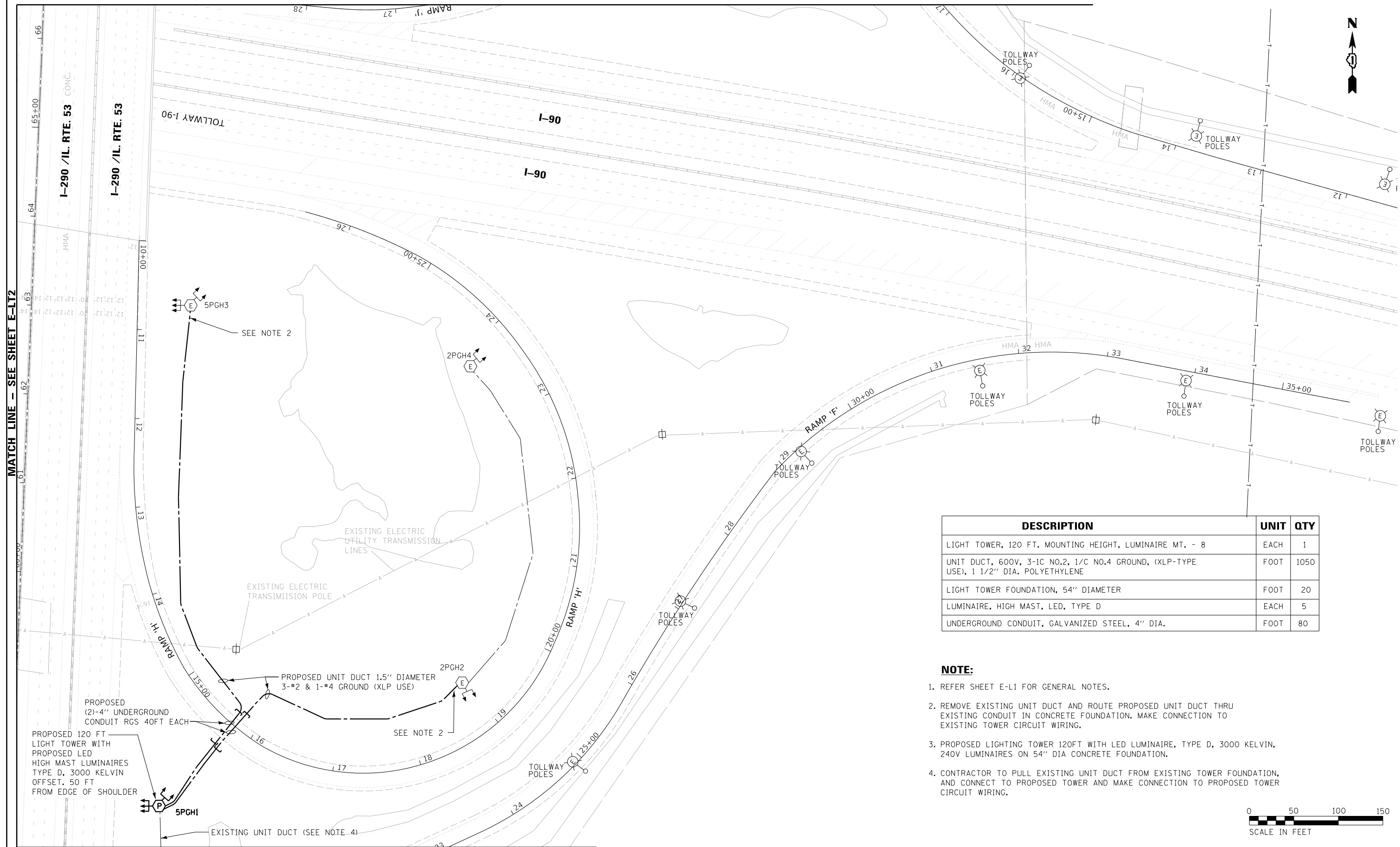
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PLOT DATE = *DATE*	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN			
I-290 /IL-53 - SHEET 2 OF 5			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	28
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

MATCH LINE - SEE SHEET E-LT5



DESCRIPTION	UNIT	QTY
LIGHT TOWER, 120 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8	EACH	1
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	1050
LIGHT TOWER FOUNDATION, 54" DIAMETER	FOOT	20
LUMINAIRE, HIGH MAST, LED, TYPE D	EACH	5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	80

NOTE:

- REFER SHEET E-L1 FOR GENERAL NOTES.
- REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
- PROPOSED LIGHTING TOWER 120FT WITH LED LUMINAIRE, TYPE D, 3000 KELVIN, 240V LUMINAIRES ON 54" DIA CONCRETE FOUNDATION.
- CONTRACTOR TO PULL EXISTING UNIT DUCT FROM EXISTING TOWER FOUNDATION, AND CONNECT TO PROPOSED TOWER AND MAKE CONNECTION TO PROPOSED TOWER CIRCUIT WIRING.



MATCH LINE - SEE SHEET E-LT1



USER NAME - #USER#	DESIGNED - HM	REVISED -
DRAWN - MS	REVISED -	
PLOT SCALE - #SCALE#	CHECKED - HS	REVISED -
PLOT DATE - #DATE#	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN			
I-290 /IL-53 - SHEET 3 OF 5			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

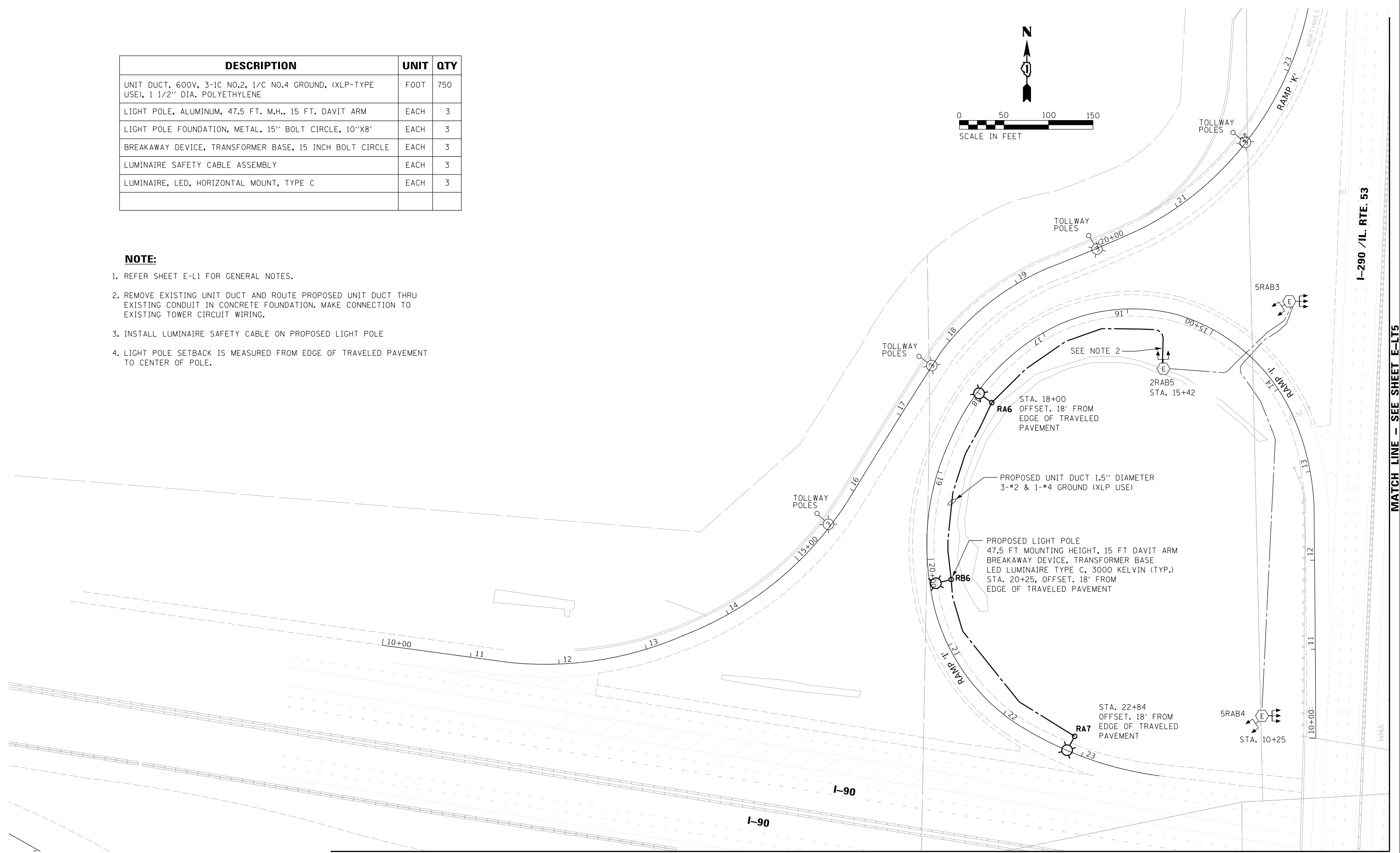
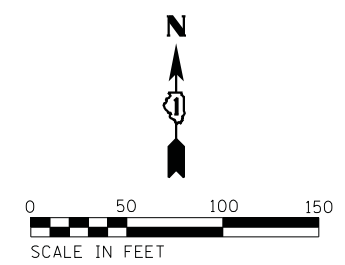
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	29
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

E-LT3

DESCRIPTION	UNIT	QTY
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	750
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM	EACH	3
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10"X8'	EACH	3
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	3
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	3
LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C	EACH	3

NOTE:

1. REFER SHEET E-L1 FOR GENERAL NOTES.
2. REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
3. INSTALL LUMINAIRE SAFETY CABLE ON PROPOSED LIGHT POLE
4. LIGHT POLE SETBACK IS MEASURED FROM EDGE OF TRAVELED PAVEMENT TO CENTER OF POLE.



MATCH LINE - SEE SHEET E-LT2

E-LT4



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - MS	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

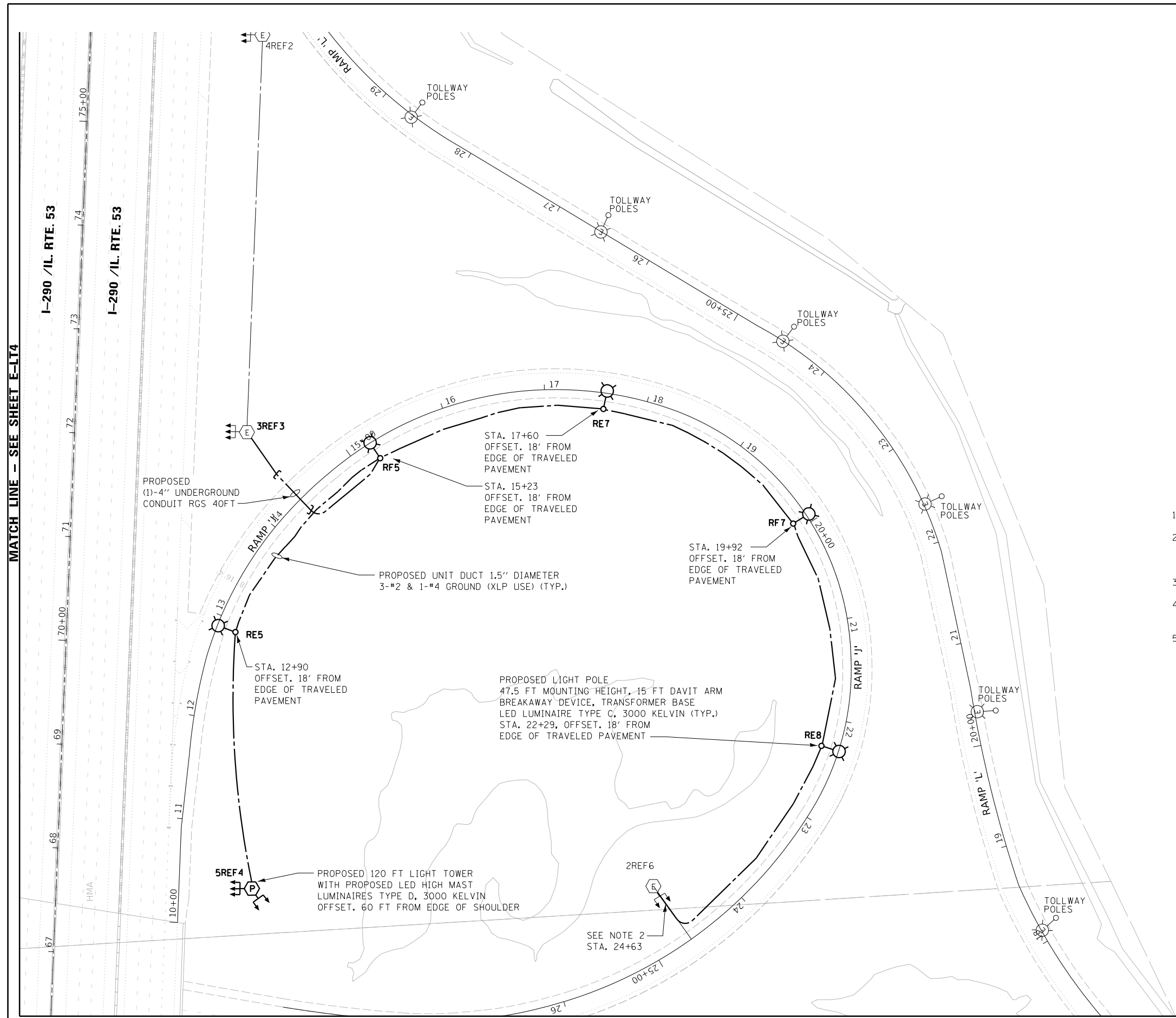
PROPOSED LIGHTING PLAN
I-290 /IL-53 - SHEET 4 OF 5

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	30
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

MATCH LINE - SEE SHEET E-LT5

I-290 /IL. RTE. 53



DESCRIPTION	UNIT	QTY
LIGHT TOWER, 120 FT. MOUNTING HEIGHT, LUMINAIRE MT. - 8	EACH	1
LIGHT TOWER FOUNDATION, 54" DIAMETER	FOOT	20
LUMINAIRE, HIGH MAST, LED, TYPE D	EACH	5
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	1700
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM	EACH	5
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10"X8"	EACH	5
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	5
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	5
LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C	EACH	5
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	40

NOTE:

- REFER SHEET E-L1 FOR GENERAL NOTES.
- REMOVE EXISTING UNIT DUCT AND ROUTE PROPOSED UNIT DUCT THRU EXISTING CONDUIT IN CONCRETE FOUNDATION. MAKE CONNECTION TO EXISTING TOWER CIRCUIT WIRING.
- INSTALL LUMINAIRE SAFETY CABLE ON PROPOSED LIGHT POLE
- LIGHT POLE SETBACK IS MEASURED FROM EDGE OF TRAVELED PAVEMENT TO CENTER OF POLE.
- PROPOSED LIGHTING TOWER 120FT WITH LED LUMINAIRE, TYPE D, 3000 KELVIN, 240V LUMINAIRES ON 54" DIA CONCRETE FOUNDATION.



USER NAME = *USER*	DESIGNED - HM	REVISED -
DRAWN - MS	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**PROPOSED LIGHTING PLAN
I-290 /IL-53 - SHEET 5 OF 5**

SCALE: SHEET OF SHEETS STA. TO STA.

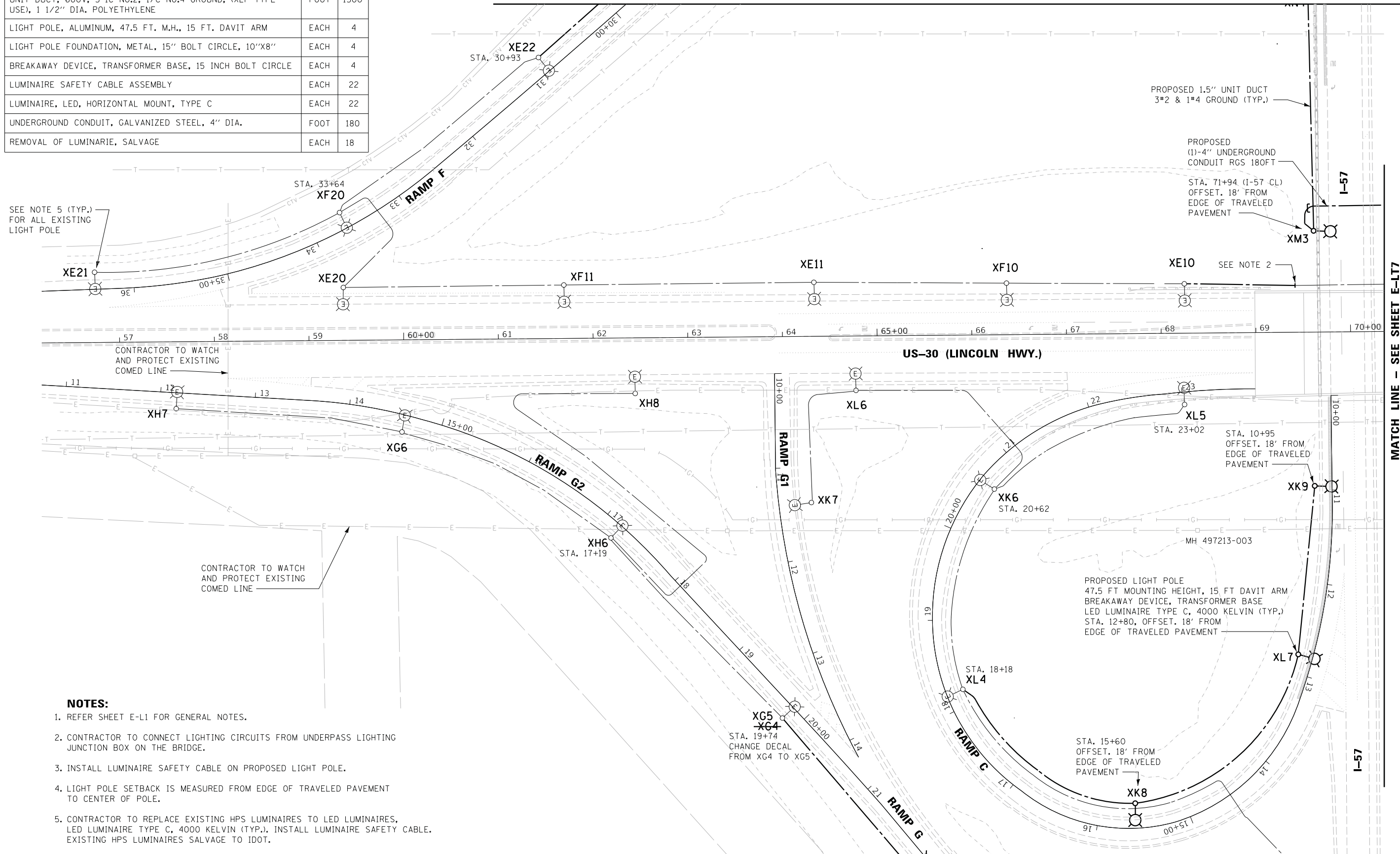
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	31
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

MATCH LINE - SEE SHEET E-LT3

E-LT5

DESCRIPTION	UNIT	QTY
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	1300
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM	EACH	4
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10"x8"	EACH	4
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	4
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	22
LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C	EACH	22
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	180
REMOVAL OF LUMINAIRE, SALVAGE	EACH	18

MATCH LINE - SEE SHEET E-LT9



SEE NOTE 5 (TYP.) FOR ALL EXISTING LIGHT POLE

CONTRACTOR TO WATCH AND PROTECT EXISTING COMED LINE

CONTRACTOR TO WATCH AND PROTECT EXISTING COMED LINE

SEE NOTE 2

NOTES:

1. REFER SHEET E-L1 FOR GENERAL NOTES.
2. CONTRACTOR TO CONNECT LIGHTING CIRCUITS FROM UNDERPASS LIGHTING JUNCTION BOX ON THE BRIDGE.
3. INSTALL LUMINAIRE SAFETY CABLE ON PROPOSED LIGHT POLE.
4. LIGHT POLE SETBACK IS MEASURED FROM EDGE OF TRAVELED PAVEMENT TO CENTER OF POLE.
5. CONTRACTOR TO REPLACE EXISTING HPS LUMINAIRES TO LED LUMINAIRES, LED LUMINAIRE TYPE C, 4000 KELVIN (TYP.). INSTALL LUMINAIRE SAFETY CABLE. EXISTING HPS LUMINAIRES SALVAGE TO IDOT.

MATCH LINE - SEE SHEET E-LT8



MATCH LINE - SEE SHEET E-LT7



USER NAME : *USER*	DESIGNED - HM	REVISED -
PLOT SCALE : *SCALE*	DRAWN - MS	REVISED -
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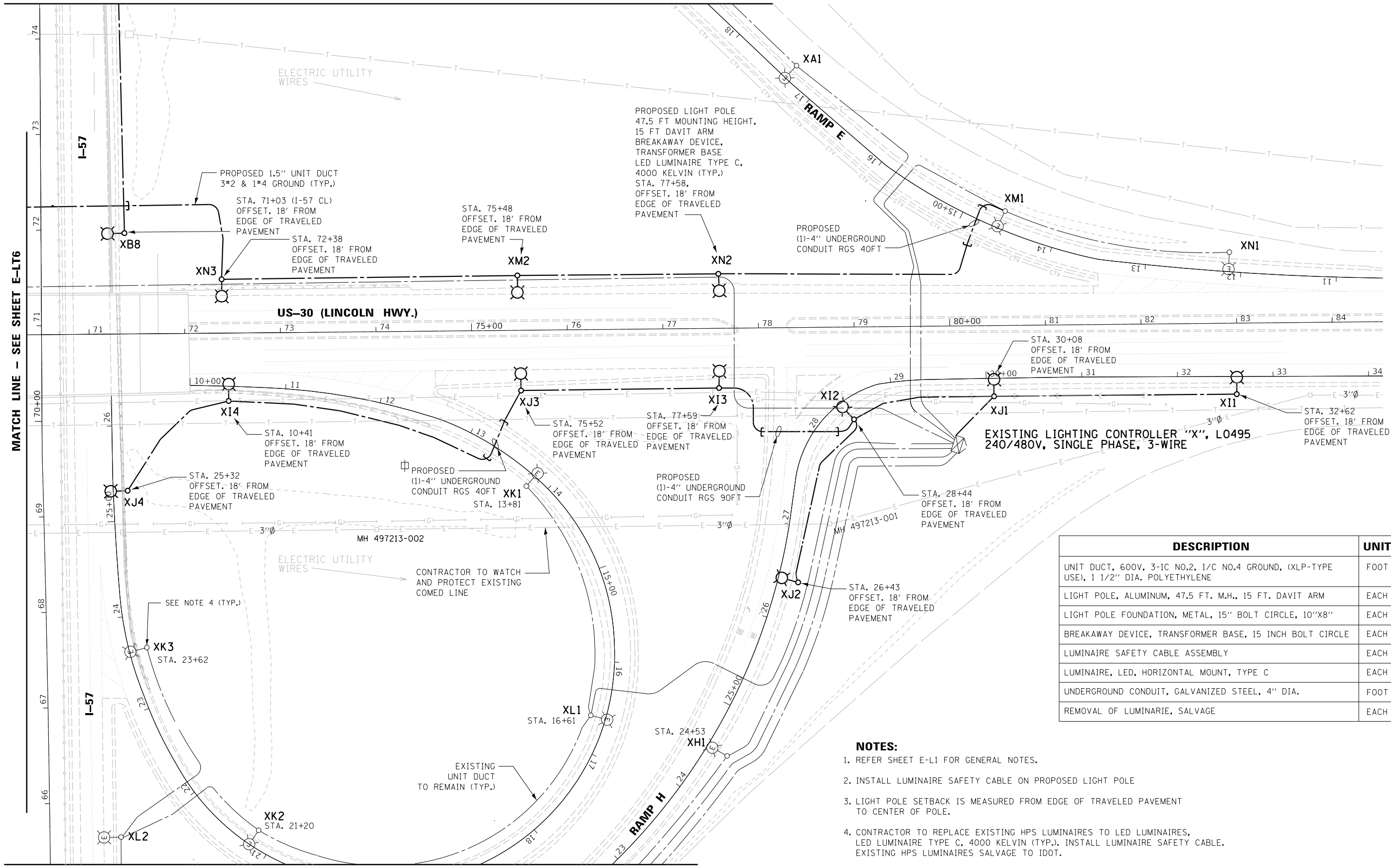
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN			
I-57 / US-30 - SHEET 1 OF 6			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	32
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

E-LT6

MATCH LINE - SEE SHEET E-LT9



EXISTING LIGHTING CONTROLLER "X", L0495
240/480V, SINGLE PHASE, 3-WIRE

DESCRIPTION	UNIT	QTY
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	3100
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM	EACH	12
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10"X8"	EACH	12
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	12
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	21
LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C	EACH	21
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	170
REMOVAL OF LUMINAIRE, SALVAGE	EACH	9

- NOTES:**
- REFER SHEET E-L1 FOR GENERAL NOTES.
 - INSTALL LUMINAIRE SAFETY CABLE ON PROPOSED LIGHT POLE
 - LIGHT POLE SETBACK IS MEASURED FROM EDGE OF TRAVELED PAVEMENT TO CENTER OF POLE.
 - CONTRACTOR TO REPLACE EXISTING HPS LUMINAIRES TO LED LUMINAIRES, LED LUMINAIRE TYPE C, 4000 KELVIN (TYP.). INSTALL LUMINAIRE SAFETY CABLE. EXISTING HPS LUMINAIRES SALVAGE TO IDOT.



E-LT7

MATCH LINE - SEE SHEET E-LT6

MATCH LINE - SEE SHEET E-LT8



USER NAME = #USER#	DESIGNED - HM	REVISED -
PLOT SCALE = #SCALE#	DRAWN - MS	REVISED -
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	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
I-57 /US-30 - SHEET 2 OF 6

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	33
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H54	

STA. 21+97
OFFSET, 18' FROM
EDGE OF TRAVELED
PAVEMENT

MATCH LINE - SEE SHEET E-LT6

MATCH LINE - SEE SHEET E-LT7

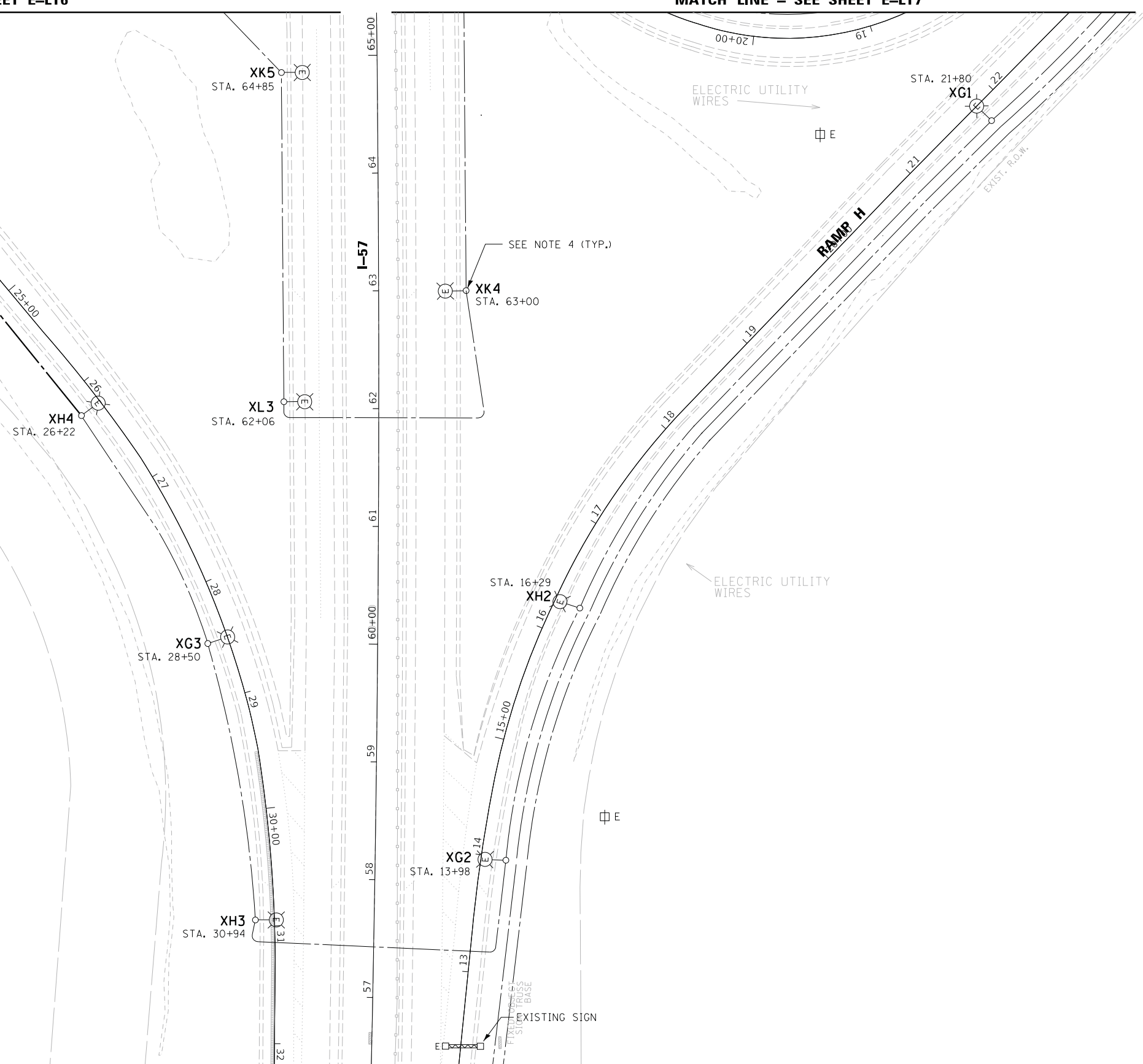


PROPOSED LIGHT POLE 47.5 FT MOUNTING HEIGHT,
15 FT DAVIT ARM BREAKAWAY DEVICE,
TRANSFORMER BASE, LED LUMINAIRE TYPE C,
4000 KELVIN (TYP.)
STA. 24+10
OFFSET, 18' FROM
EDGE OF TRAVELED PAVEMENT
CHANGE DECAL FROM XG5 TO XG4

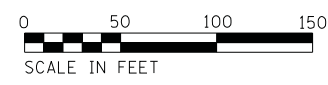
PROPOSED 1.5" UNIT DUCT
3*2 & 1*4 GROUND (TYP.)

DESCRIPTION	UNIT	QTY
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	475
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM	EACH	2
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10"x8"	EACH	2
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	2
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	11
LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C	EACH	11
REMOVAL OF LUMINARIE, SALVAGE	EACH	9

- NOTES:**
- REFER SHEET E-L1 FOR GENERAL NOTES.
 - INSTALL LUMINAIRE SAFETY CABLE ON PROPOSED LIGHT POLE.
 - LIGHT POLE SETBACK IS MEASURED FROM EDGE OF TRAVELED PAVEMENT TO CENTER OF POLE.
 - CONTRACTOR TO REPLACE EXISTING HPS LUMINAIRES TO LED LUMINAIRES, LED LUMINAIRE TYPE C, 4000 KELVIN (TYP.). INSTALL LUMINAIRE SAFETY CABLE. EXISTING HPS LUMINAIRES SALVAGE TO IDOT.



MATCH LINE - SEE SHEET E-LT11



E-LT8



USER NAME = \$USER\$	DESIGNED - HM	REVISED -
PLOT SCALE = \$SCALE\$	DRAWN - MS	REVISED -
PLOT DATE = \$DATE\$	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
I-57 /US-30 - SHEET 3 OF 6

SCALE: SHEET OF SHEETS STA. TO STA.

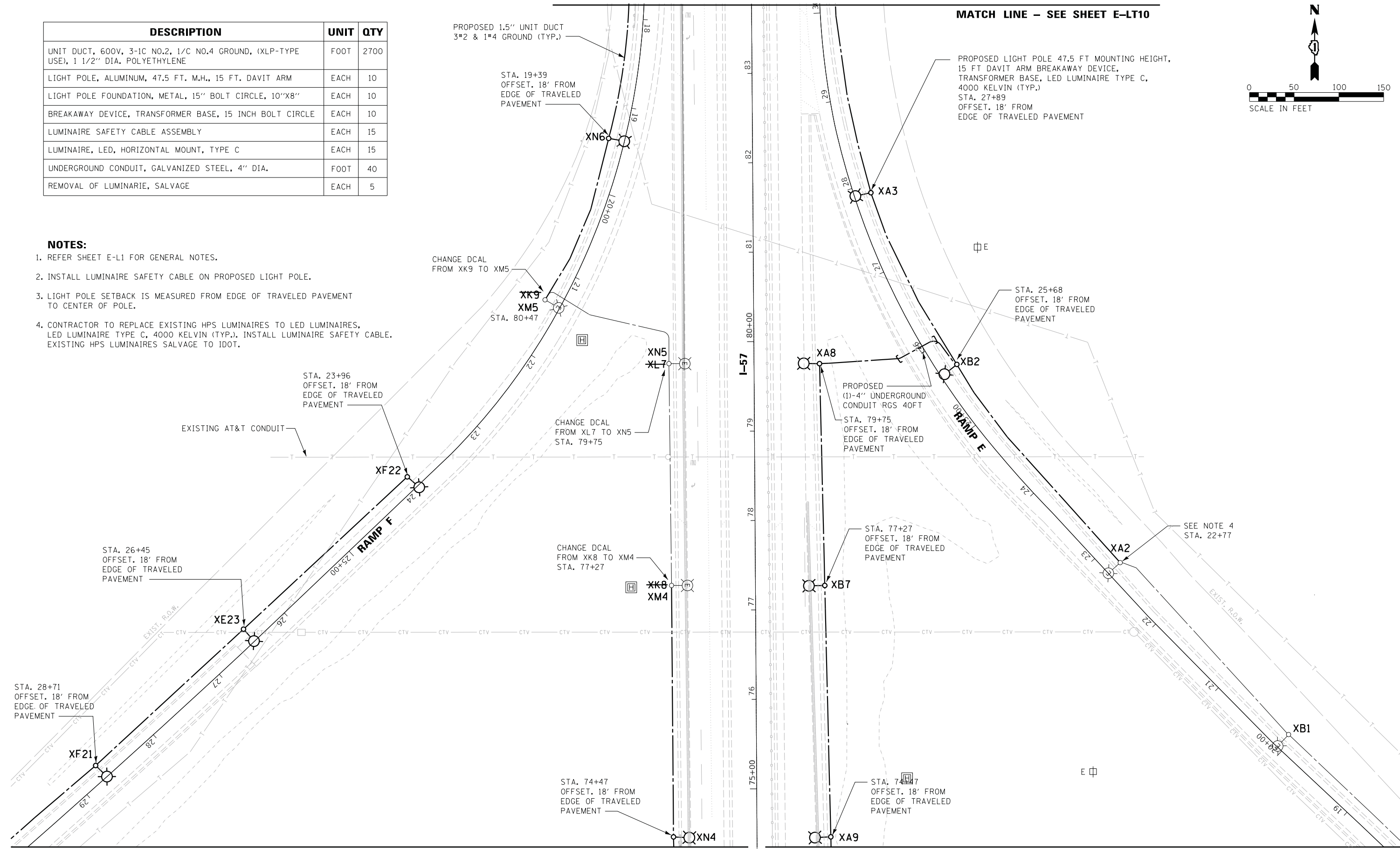
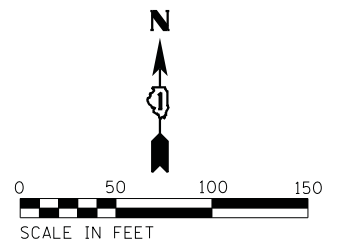
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	34
			CONTRACT NO. 62H54	
ILLINOIS FED. AID PROJECT				

DESCRIPTION	UNIT	QTY
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	2700
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM	EACH	10
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10"X8"	EACH	10
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	10
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	15
LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C	EACH	15
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	40
REMOVAL OF LUMINARIE, SALVAGE	EACH	5

NOTES:

- REFER SHEET E-L1 FOR GENERAL NOTES.
- INSTALL LUMINAIRE SAFETY CABLE ON PROPOSED LIGHT POLE.
- LIGHT POLE SETBACK IS MEASURED FROM EDGE OF TRAVELED PAVEMENT TO CENTER OF POLE.
- CONTRACTOR TO REPLACE EXISTING HPS LUMINAIRES TO LED LUMINAIRES, LED LUMINAIRE TYPE C, 4000 KELVIN (TYP.). INSTALL LUMINAIRE SAFETY CABLE. EXISTING HPS LUMINAIRES SALVAGE TO IDOT.

MATCH LINE - SEE SHEET E-LT10



MATCH LINE - SEE SHEET E-LT6

MATCH LINE - SEE SHEET E-LT7

E-LT9



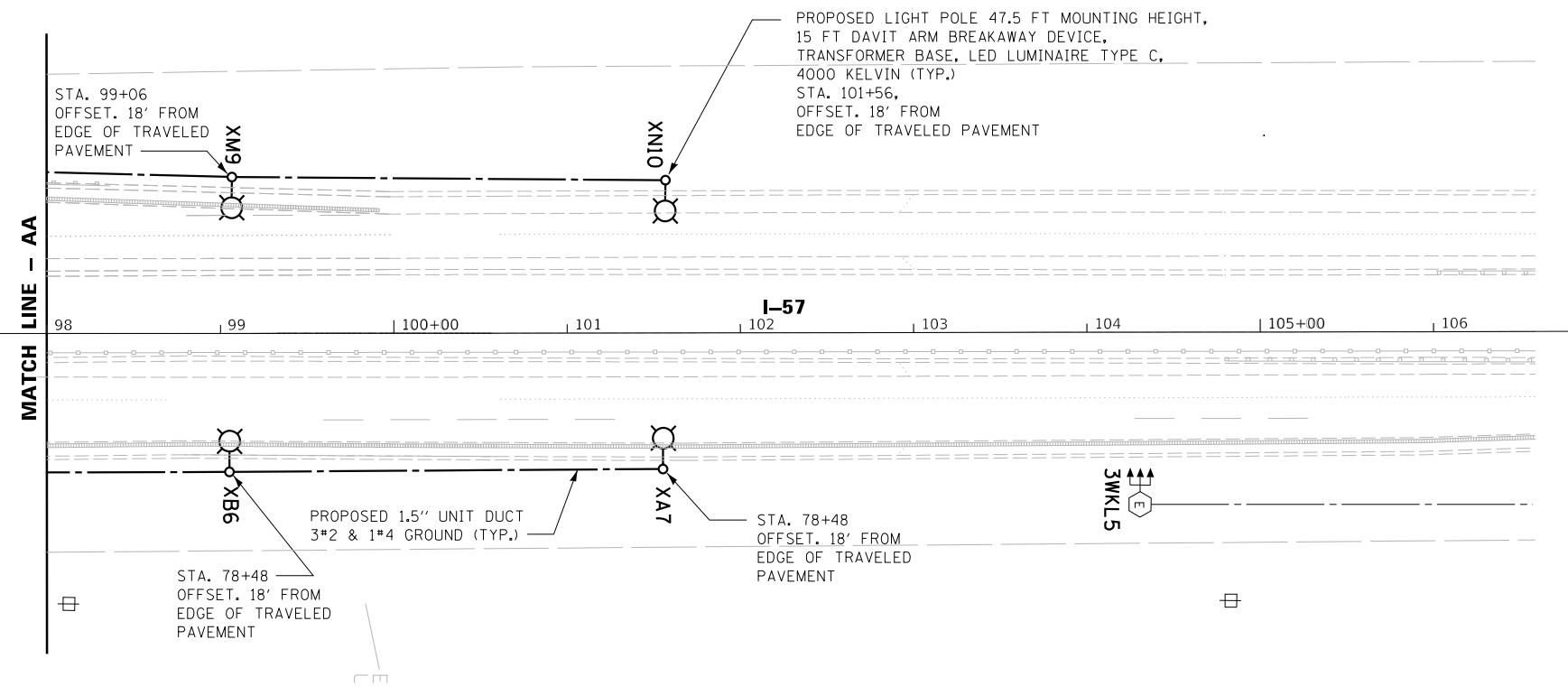
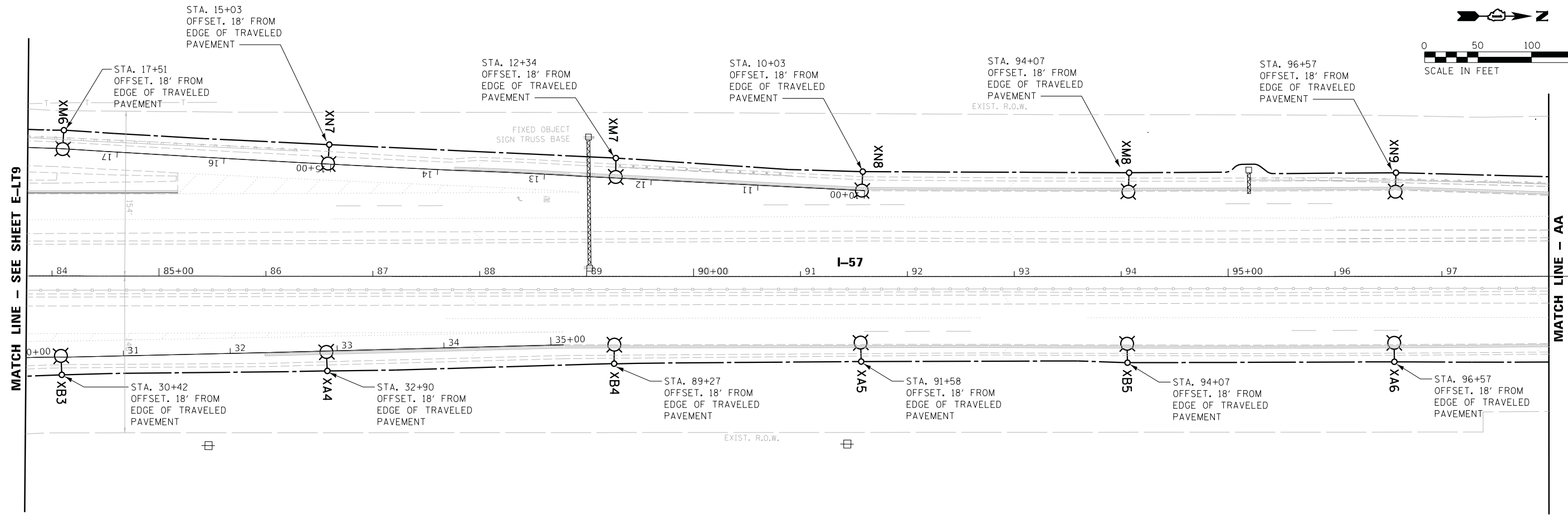
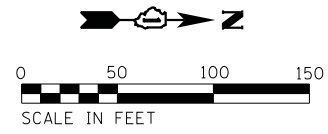
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PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN
I-57 / US-30 - SHEET 4 OF 6

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	35
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				



DESCRIPTION	UNIT	QTY
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	3900
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. DAVIT ARM	EACH	16
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10"X8"	EACH	16
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	16
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	16
LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C	EACH	16

- NOTES:**
- REFER SHEET E-L1 FOR GENERAL NOTES.
 - INSTALL LUMINAIRE SAFETY CABLE ON PROPOSED LIGHT POLE.
 - LIGHT POLE SETBACK IS MEASURED FROM EDGE OF TRAVELED PAVEMENT TO CENTER OF POLE.



USER NAME = \$USER*	DESIGNED - HM	REVISED -
PLOT SCALE = \$SCALE*	DRAWN - MS	REVISED -
PLOT DATE = \$DATE*	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

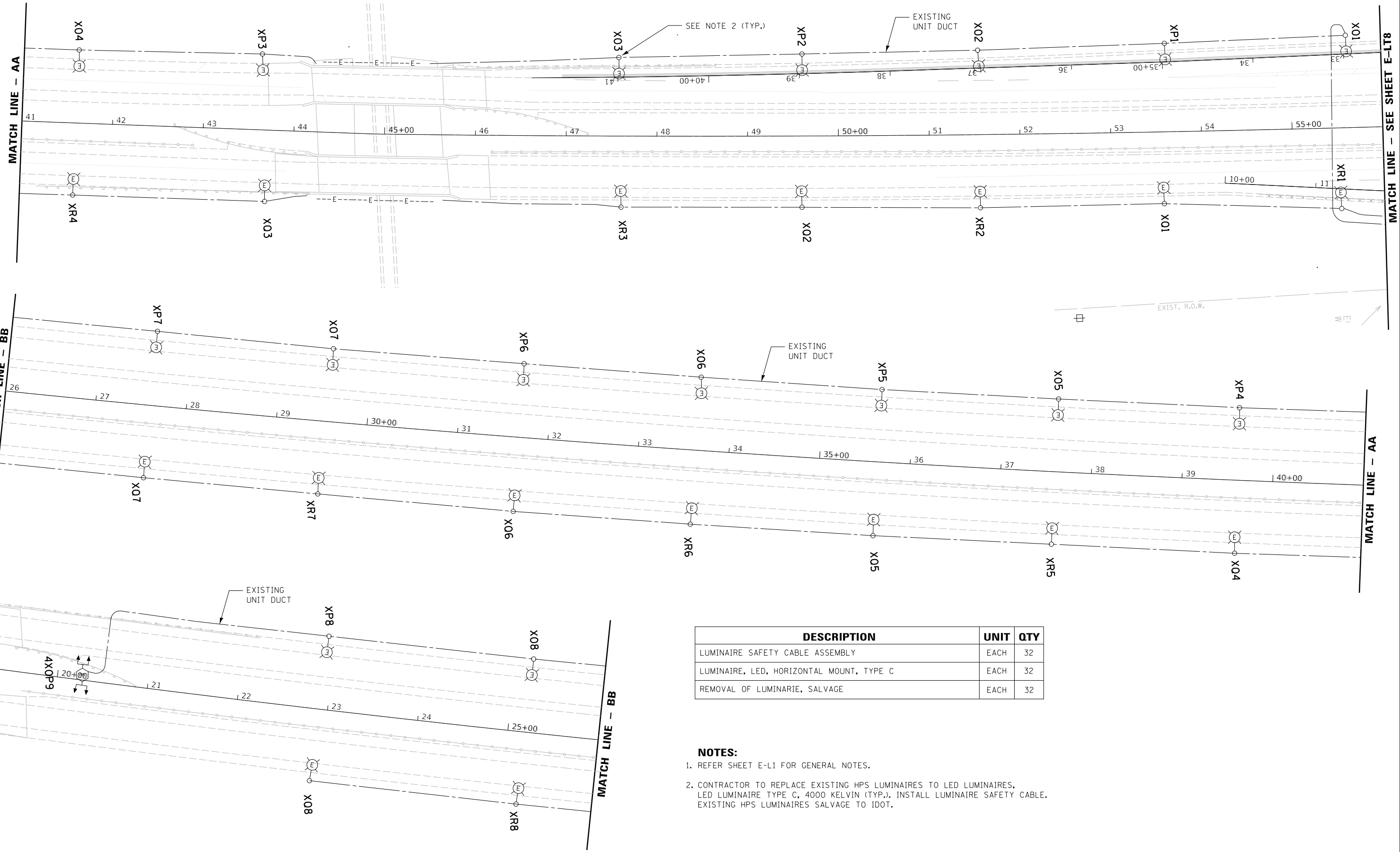
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING PLAN
I-57 /US-30 - SHEET 5 OF 6**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	36
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H54	

E-LT10



DESCRIPTION	UNIT	QTY
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	32
LUMINAIRE, LED, HORIZONTAL MOUNT, TYPE C	EACH	32
REMOVAL OF LUMINAIRE, SALVAGE	EACH	32

- NOTES:**
- REFER SHEET E-L1 FOR GENERAL NOTES.
 - CONTRACTOR TO REPLACE EXISTING HPS LUMINAIRES TO LED LUMINAIRES, LED LUMINAIRE TYPE C, 4000 KELVIN (TYP.). INSTALL LUMINAIRE SAFETY CABLE. EXISTING HPS LUMINAIRES SALVAGE TO IDOT.



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - MS	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLAN			
I-57 / US-30 - SHEET 6 OF 6			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	37
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

E-LT11

MATCH LINE - AA

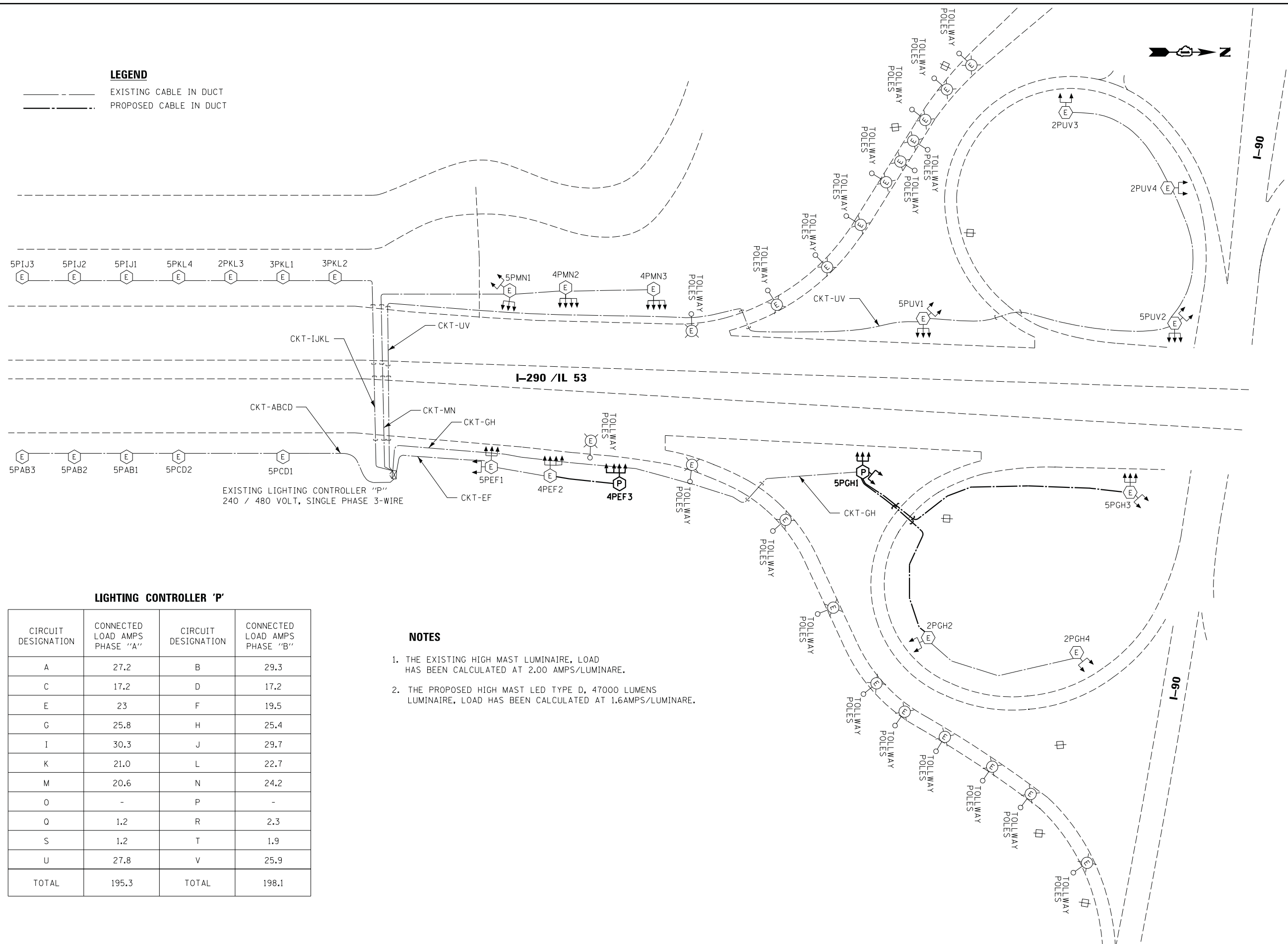
MATCH LINE - SEE SHEET E-LT8

MATCH LINE - BB

MATCH LINE - AA

MATCH LINE - BB

LEGEND
 - - - - - EXISTING CABLE IN DUCT
 - - - - - PROPOSED CABLE IN DUCT



LIGHTING CONTROLLER 'P'

CIRCUIT DESIGNATION	CONNECTED LOAD AMPS PHASE "A"	CIRCUIT DESIGNATION	CONNECTED LOAD AMPS PHASE "B"
A	27.2	B	29.3
C	17.2	D	17.2
E	23	F	19.5
G	25.8	H	25.4
I	30.3	J	29.7
K	21.0	L	22.7
M	20.6	N	24.2
O	-	P	-
Q	1.2	R	2.3
S	1.2	T	1.9
U	27.8	V	25.9
TOTAL	195.3	TOTAL	198.1

NOTES

1. THE EXISTING HIGH MAST LUMINAIRE, LOAD HAS BEEN CALCULATED AT 2.00 AMPS/LUMINAIRE.
2. THE PROPOSED HIGH MAST LED TYPE D, 47000 LUMENS LUMINAIRE, LOAD HAS BEEN CALCULATED AT 1.6AMPS/LUMINAIRE.



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - MS	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**



**SINGLE LINE DIAGRAM - I-290 / IL 53
 CONTROLLER P**

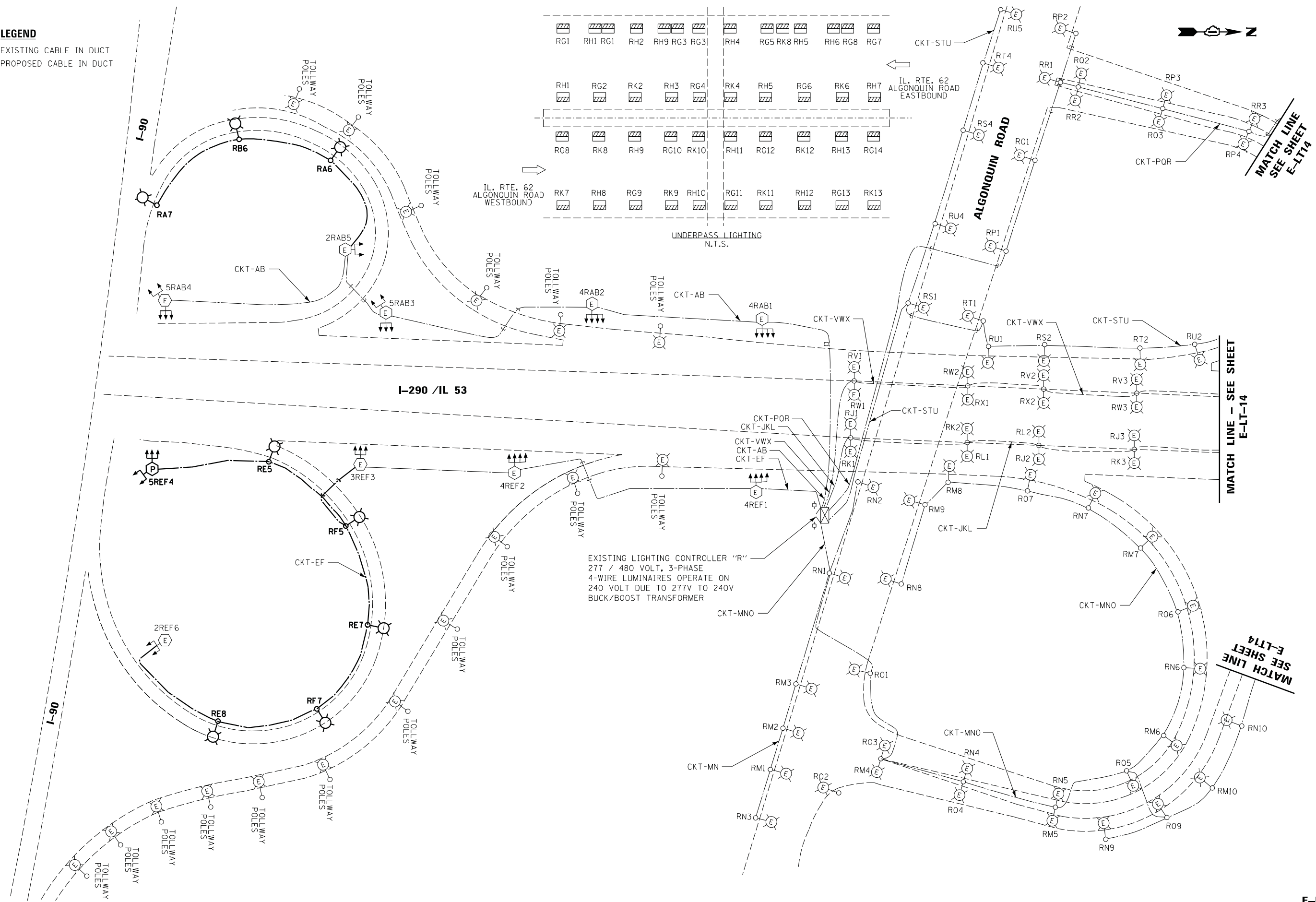
SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	38
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H54	

E-LT12

LEGEND

-  EXISTING CABLE IN DUCT
-  PROPOSED CABLE IN DUCT



EXISTING LIGHTING CONTROLLER "R"
 277 / 480 VOLT, 3-PHASE
 4-WIRE LUMINAIRES OPERATE ON
 240 VOLT DUE TO 277V TO 240V
 BUCK/BOOST TRANSFORMER



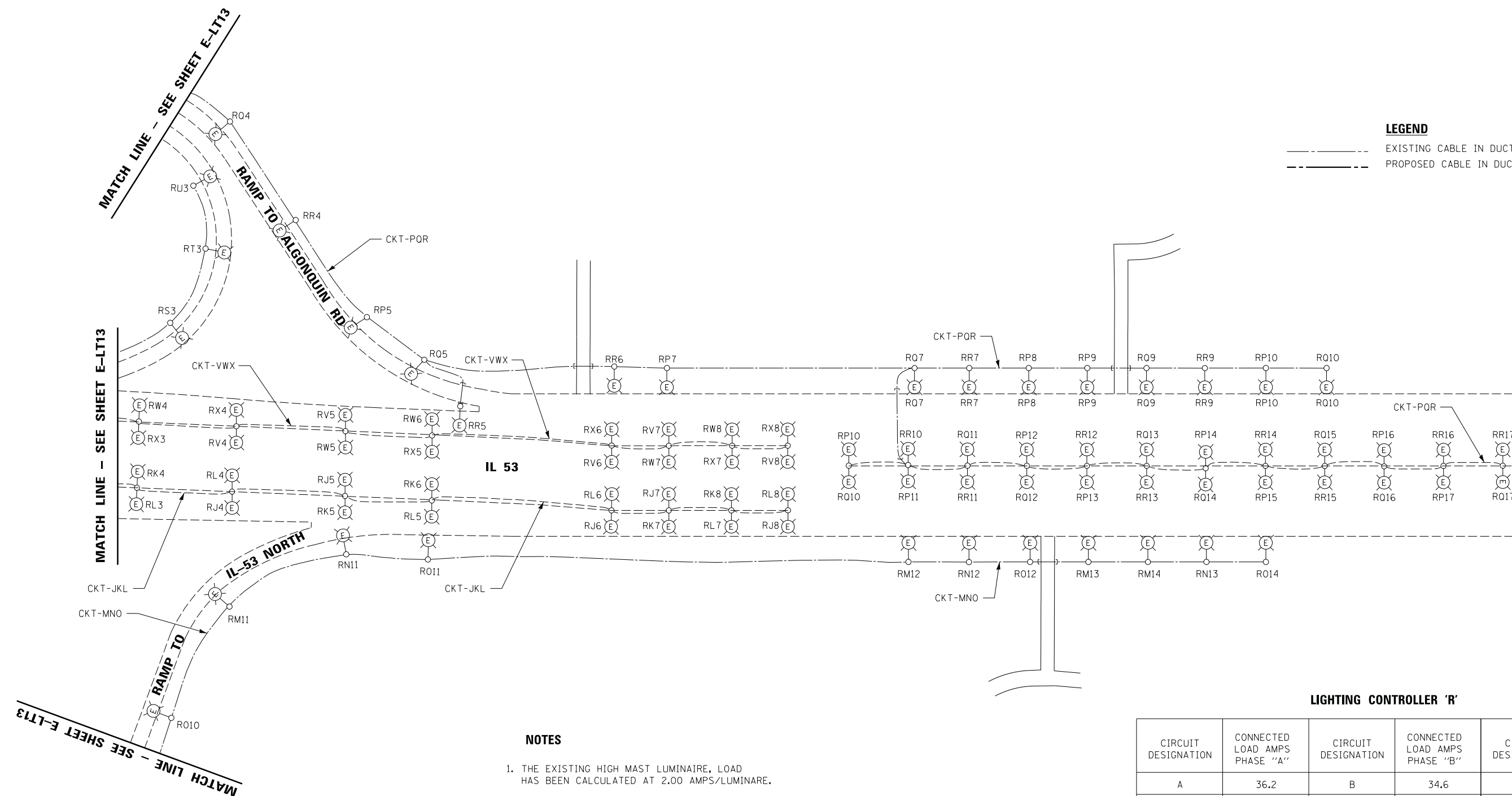
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PLOT SCALE = *SCALE*	DRAWN - MS	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SINGLE LINE DIAGRAM - 1-290 /IL 53 CONTROLLER R			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	39
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

E-LT13



LEGEND

- EXISTING CABLE IN DUCT
- PROPOSED CABLE IN DUCT

NOTES

1. THE EXISTING HIGH MAST LUMINAIRE, LOAD HAS BEEN CALCULATED AT 2.00 AMPS/LUMINAIRE.
2. THE PROPOSED HIGH MAST LED TYPE D, 47000 LUMENS LUMINAIRE, LOAD HAS BEEN CALCULATED AT 1.6 AMPS/LUMINAIRE.
3. THE EXISTING ROADWAY LUMINAIRE, LOAD HAS BEEN CALCULATED AT 1.0 AMPS/LUMINAIRE.
4. THE PROPOSED ROADWAY LED TYPE C, 25000 LUMENS, LUMINAIRE, LOAD HAS BEEN CALCULATED AT 0.9 AMPS/LUMINAIRE.

LIGHTING CONTROLLER 'R'

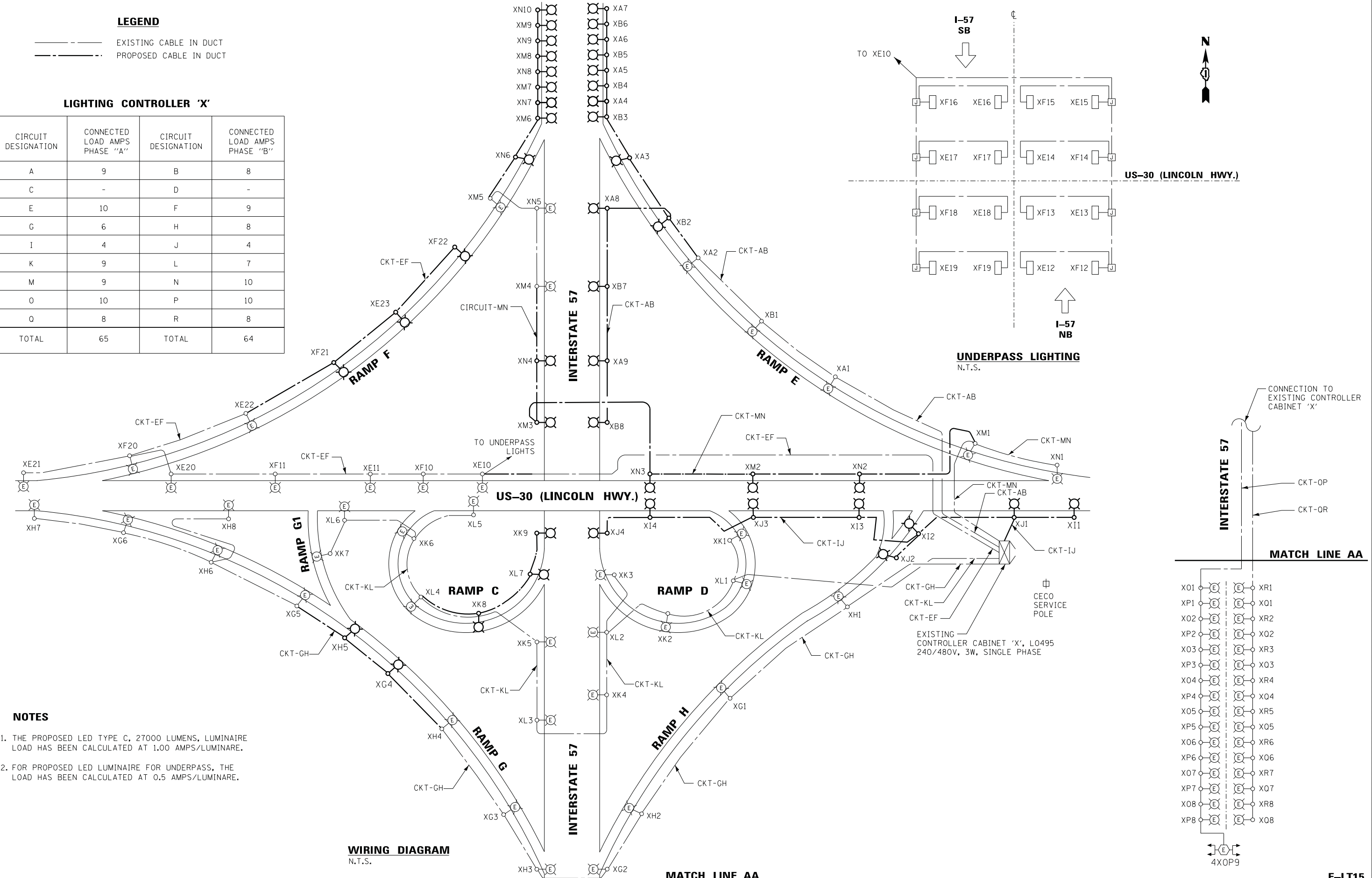
CIRCUIT DESIGNATION	CONNECTED LOAD AMPS PHASE "A"	CIRCUIT DESIGNATION	CONNECTED LOAD AMPS PHASE "B"	CIRCUIT DESIGNATION	CONNECTED LOAD AMPS PHASE "C"
A	36.2	B	34.6	C	-
D	-	E	39.6	F	40.4
G	6.9	H	3.6	I	3.1
J	12.8	K	13.6	L	13.8
M	24.9	N	19.5	O	21.2
P	35.6	O	32.5	R	30.1
S	7.9	T	7.4	U	8.5
V	13.4	W	14.8	X	13.9
TOTAL	137.7	TOTAL	165.6	TOTAL	131

LEGEND

- EXISTING CABLE IN DUCT
- - - PROPOSED CABLE IN DUCT

LIGHTING CONTROLLER 'X'

CIRCUIT DESIGNATION	CONNECTED LOAD AMPS PHASE "A"	CIRCUIT DESIGNATION	CONNECTED LOAD AMPS PHASE "B"
A	9	B	8
C	-	D	-
E	10	F	9
G	6	H	8
I	4	J	4
K	9	L	7
M	9	N	10
O	10	P	10
Q	8	R	8
TOTAL	65	TOTAL	64

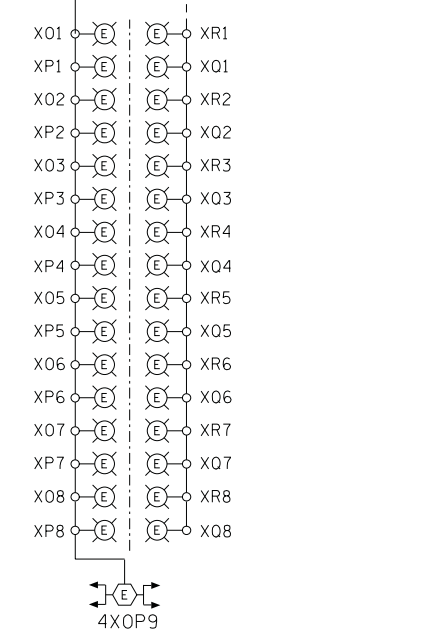
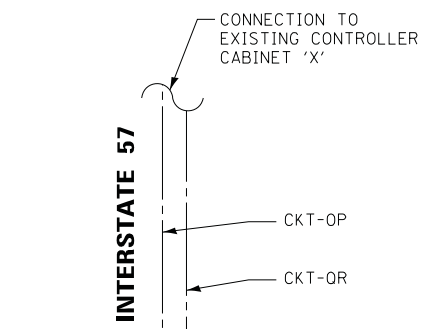


NOTES

1. THE PROPOSED LED TYPE C, 27000 LUMENS, LUMINAIRE LOAD HAS BEEN CALCULATED AT 1.00 AMPS/LUMINAIRE.
2. FOR PROPOSED LED LUMINAIRE FOR UNDERPASS, THE LOAD HAS BEEN CALCULATED AT 0.5 AMPS/LUMINAIRE.

WIRING DIAGRAM
N.T.S.

UNDERPASS LIGHTING
N.T.S.



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - MS	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

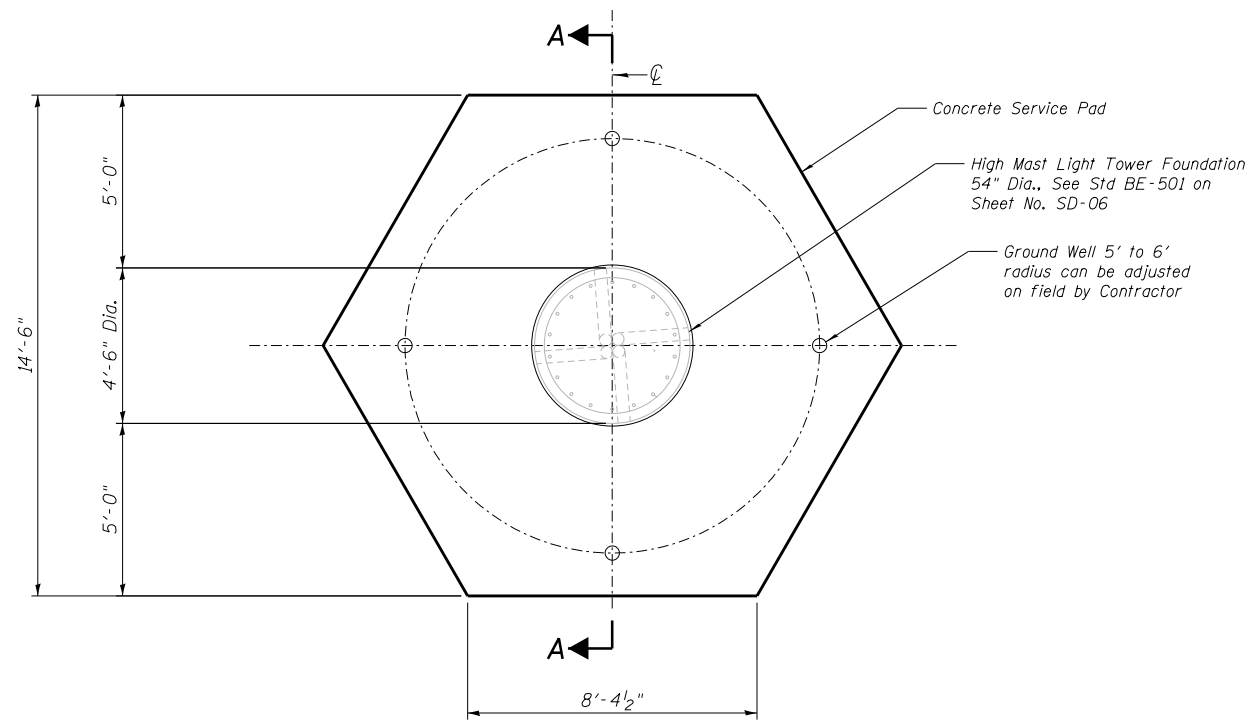
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SINGLE LINE DIAGRAM I-57 / US 30
CONTROLLER X

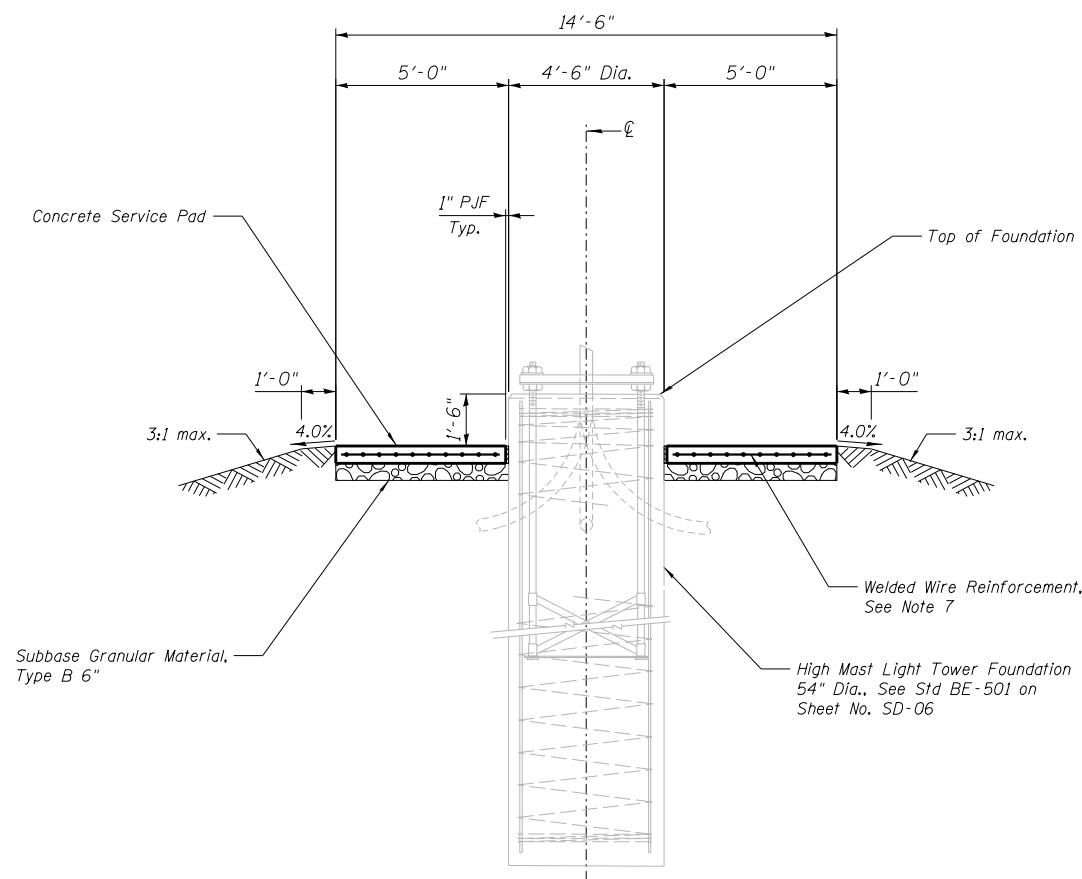
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	41
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

E-LT15



PLAN



SECTION A-A

HIGH MAST LIGHT TOWER LOCATION

Light Tower No.	County	Location		Highway / Roadway	Pad Type	*Pad Elevation
		Station	Offset			
5PGHI	Cook	See note 1	See note 1	I-290 / SE Corner	Light Tower Service Pad	**

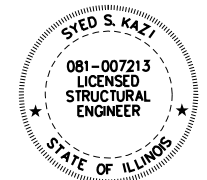
*Pad Elevations must be verified prior to Construction
 **Pad Elevations match with top of existing pad

TOTAL BILL OF MATERIAL

ITEM	UNIT	Quantity
Welded Wire Reinforcement	Sq. Yd.	20
Structure Excavation	Cu. Yd.	15
Concrete Structures	Cu. Yd.	3.3
Protective Coat	Sq. Yd.	20
Subbase Granular Material, Type B 6"	Sq. Yd.	20

NOTES:

1. For location of Light Pole Foundations, see Lighting Plans.
2. The Light Tower & Light Tower Foundation shall be paid for separately.
3. For Light Tower hand hole orientation, see Lighting Plans.
4. f'c for Concrete shall be 3,500 psi @ 28 days.
fy for Welded Wire Reinforcement shall be 65,000 psi.
5. Min. 3,000 psf Soil Bearing Capacity is required below the foundation & pad.
6. Bill of Material quantity shown is for one Service Pad.
7. Welded Wire Reinforcement shall have minimum area of 0.31 in² in each direction.

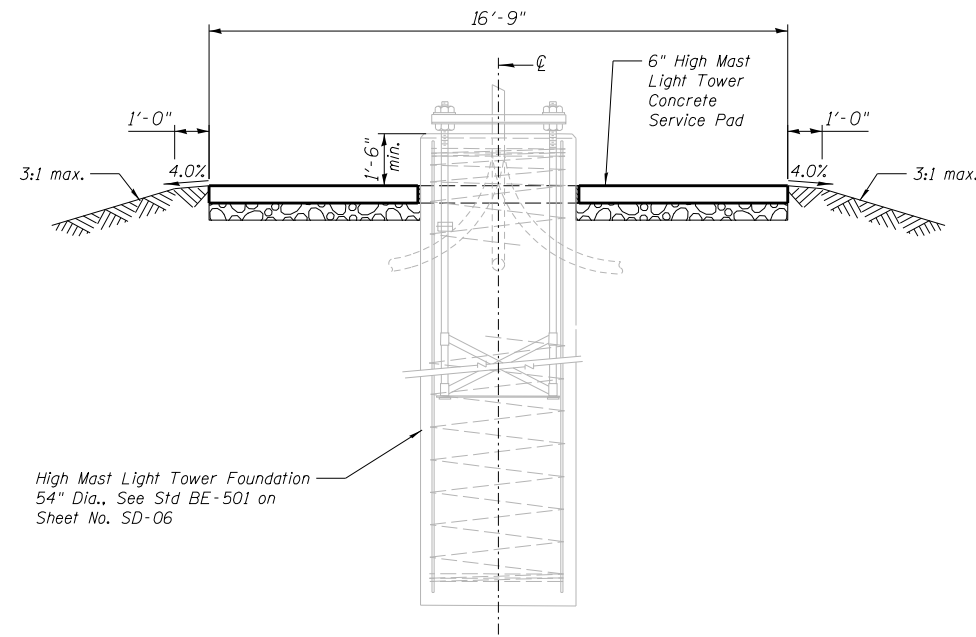
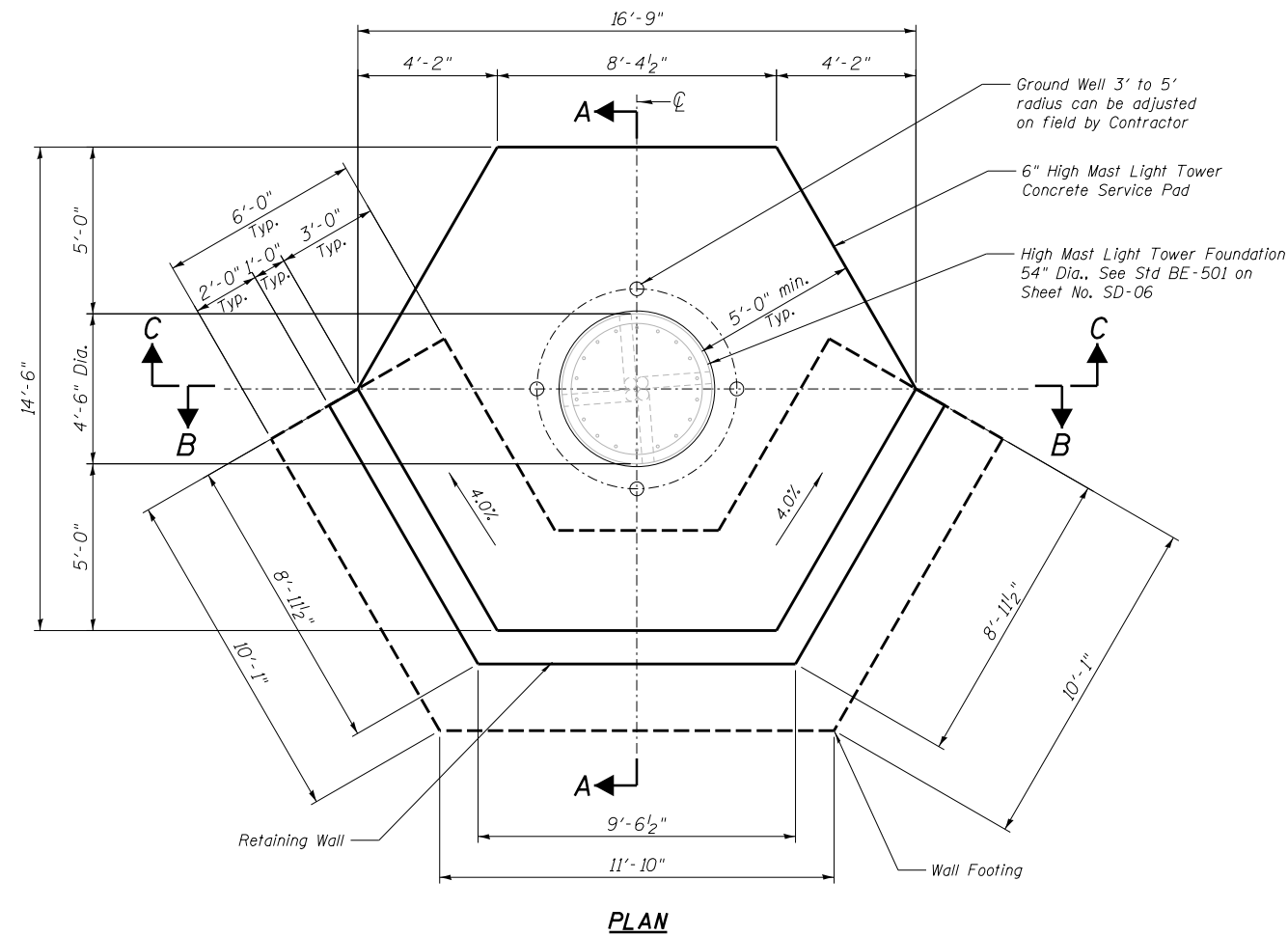


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 LICENSE EXPIRES ON 11/30/2020

HIGH MAST LIGHT TOWER LOCATION

Light Tower No.	County	Location		Highway / Roadway	Pad Type	*Pad Elevation
		Station	Offset			
4PEF3	Cook	See note 1	See note 1	I-290 / Ramp F	Light Tower Service Pad	**
5REF4	Cook	See note 1	See note 1	I-290 / I-90 NE Corner	Light Tower Service Pad	**

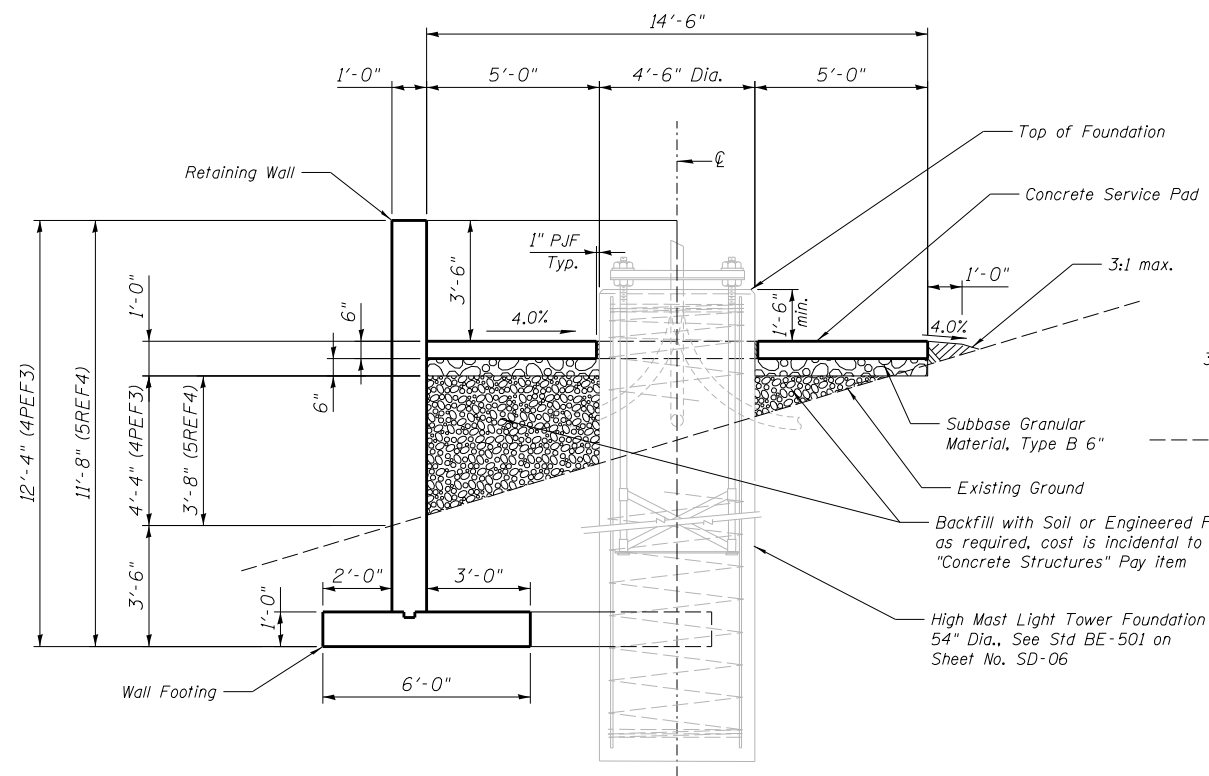
*Pad Elevations must be verified prior to Construction
 **Pad Elevations 1'-6" below top of High Mast Light Tower Foundation



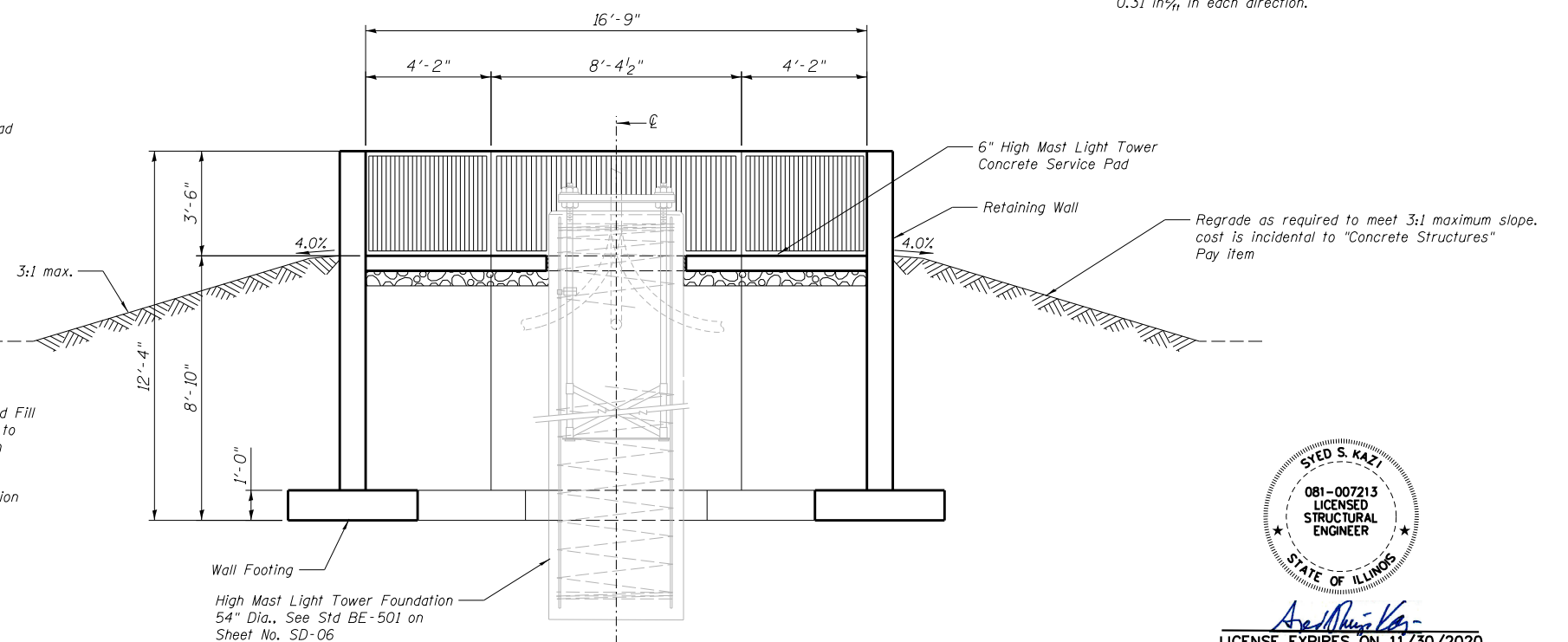
SECTION C-C

NOTES:

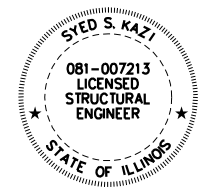
- For location of Light Pole Foundations, see Lighting Plans.
- The Light Tower & Light Tower Foundation shall be paid for separately.
- For Light Tower hand hole orientation, see Lighting Plans.
- Reinforcement Bars designated (E) shall be epoxy coated.
- The Concrete compressive strength shall be $f'c = 3,500$ psi. The Reinforcement steel grade shall be $f_y = 60,000$ psi. The Welded Wire Fabric grade shall be $f_y = 65,000$ psi.
- Min. 3,000 psf Soil Bearing Capacity is required below the wall footing & pad.
- Welded Wire Reinforcement shall have minimum area of 0.31 in^2 in each direction.



SECTION A-A



SECTION B-B
Reinforcement omitted for clarity



LICENSE EXPIRES ON 11/30/2020



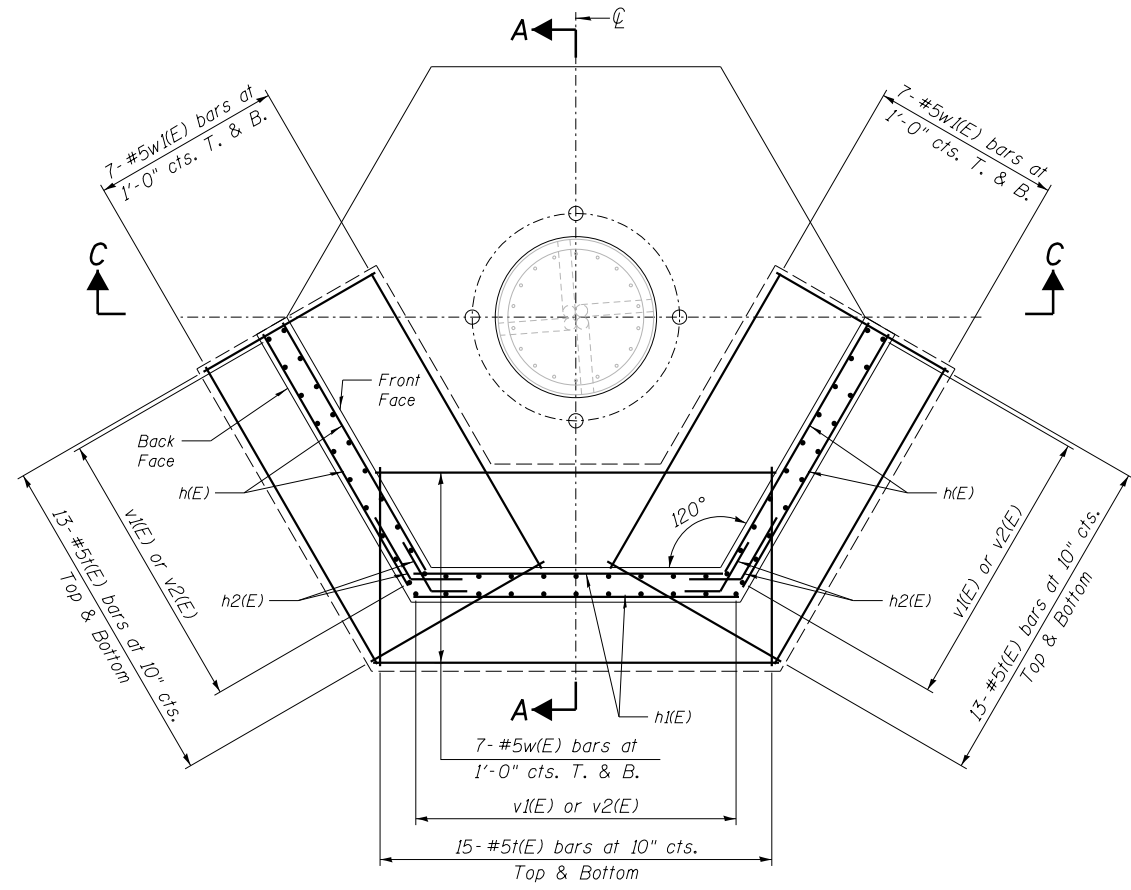
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PLOT SCALE = *SCALE*	DRAWN - RM	REVISED -
PLOT DATE = *DATE*	CHECKED - SK	REVISED -
	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

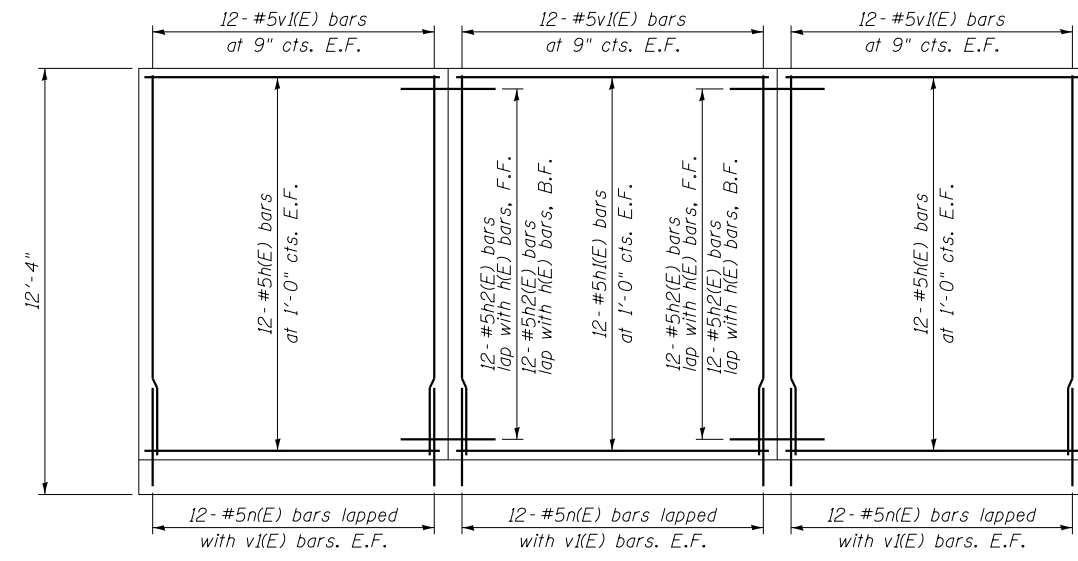
SCALE:		SHEET 2 OF 3 SHEETS	STA. TO STA.
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LIGHT TOWER SERVICE PAD AND
RETAINING WALL DETAILS (4PEF3, 5REF4)

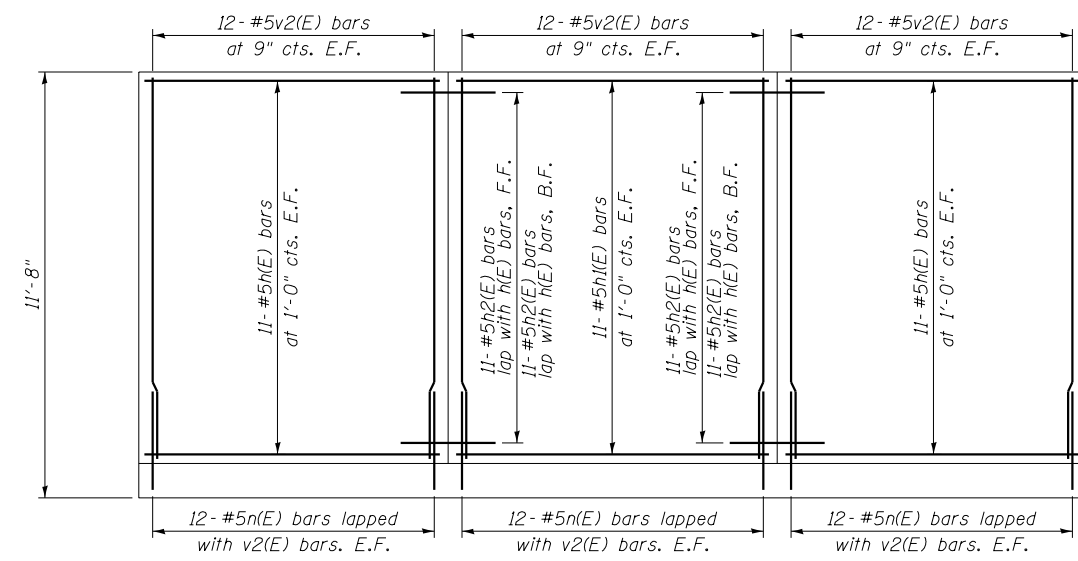
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	43
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				



PLAN



INSIDE ELEVATION OF WINGWALLS & BACKWALL (4PEF3)



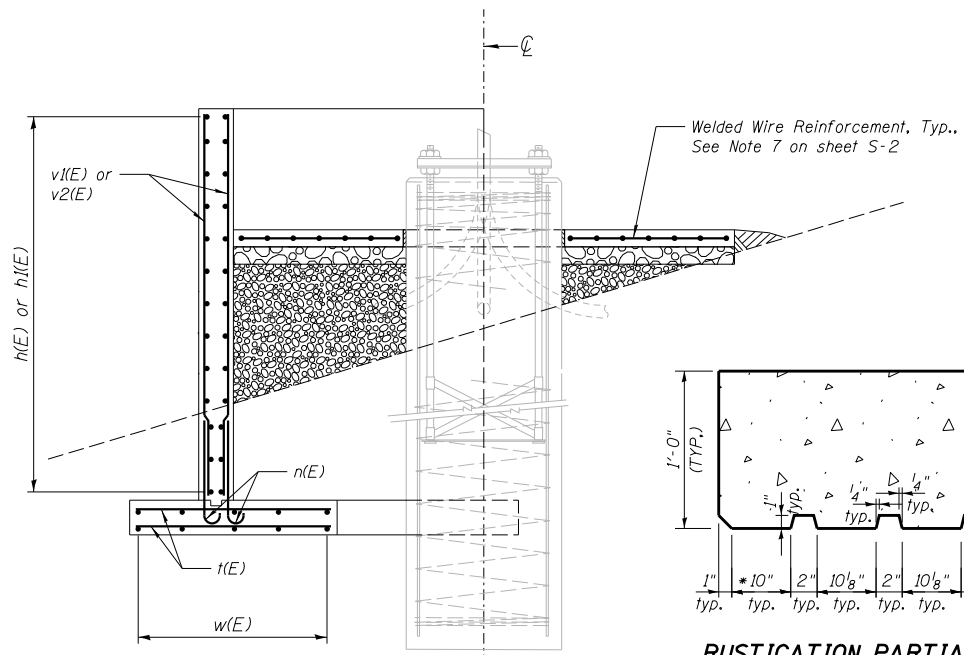
INSIDE ELEVATION OF WINGWALLS & BACKWALL (5REF4)

REINFORCEMENT BILL OF MATERIAL FOR RETAINING WALL (4PEF3)

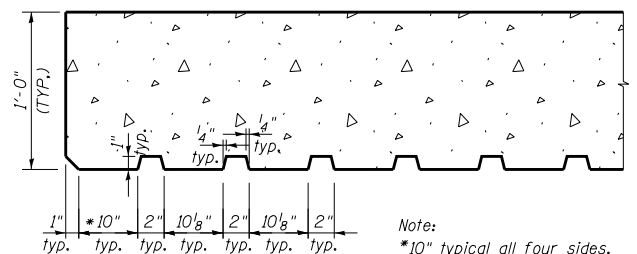
Bar	No.	Size	Length	Shape
n(E)	72	#5	3'-7"	U
h(E)	82	#5	5'-8"	—
w(E)	14	#5	11'-6"	—
w(E)	28	#5	9'-9"	—
h(E)	48	#5	8'-8"	—
h(E)	24	#5	9'-2"	—
h2(E)	48	#5	3'-0"	—
v(E)	72	#5	11'-0"	—

REINFORCEMENT BILL OF MATERIAL FOR RETAINING WALL (5REF4)

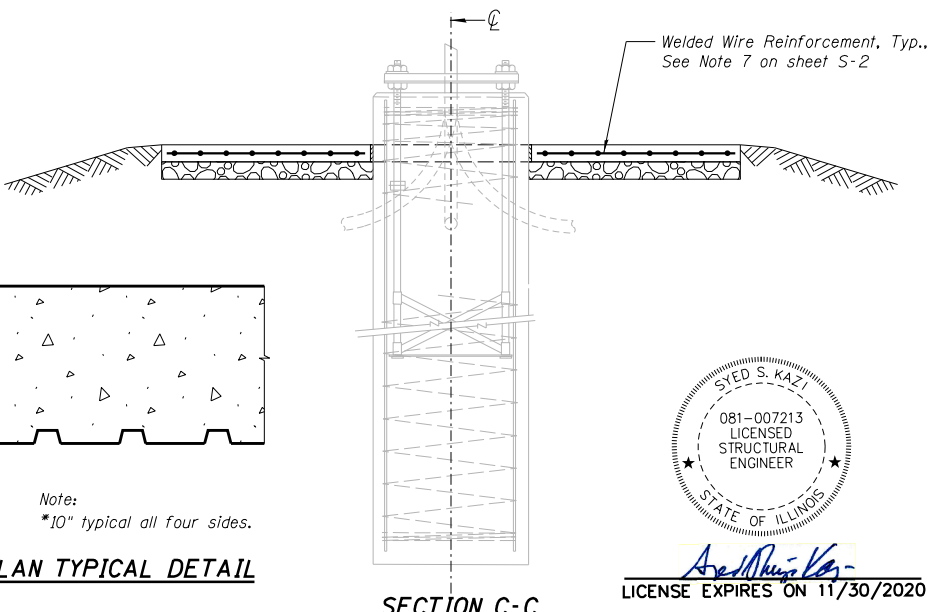
Bar	No.	Size	Length	Shape
n(E)	72	#5	3'-7"	U
h(E)	82	#5	5'-8"	—
w(E)	14	#5	11'-6"	—
w(E)	28	#5	9'-9"	—
h(E)	44	#5	8'-8"	—
h(E)	22	#5	9'-2"	—
h2(E)	44	#5	3'-0"	—
v2(E)	72	#5	10'-4"	—



SECTION A-A



RUSTICATION PARTIAL PLAN TYPICAL DETAIL



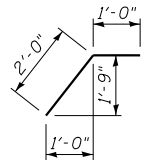
SECTION C-C

LEGEND:

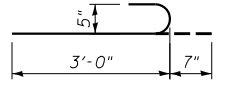
E.F. = Each Face
F.F. = Front Face
B.F. = Back Face

MIN. BAR LAP:

#5 bars - 2'-0"



BAR h2(E)

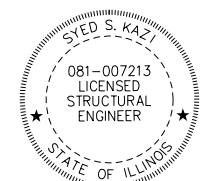


BAR n(E)

TOTAL BILL OF MATERIAL

Item	Unit	4PEF3	5REF4	Total
Welded Wire Reinforcement	Sq. Yd.	20	20	40
Structure Excavation	Cu. Yd.	33	33	66
Concrete Structures	Cu. Yd.	21.2	20.5	41.7
Reinforcement Bars, Epoxy Coated	Pound	2,990	2,870	5,860
*Rustication Finish	Sq. Ft.	88	88	176
Protective Coat	Sq. Yd.	33	33	66
Subbase Granular Material, Type B 6"	Sq. Yd.	20	20	40

*Quantity for Rustication Finish is for information only
Cost included in Concrete Structure pay item.



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LICENSE EXPIRES ON 11/30/2020



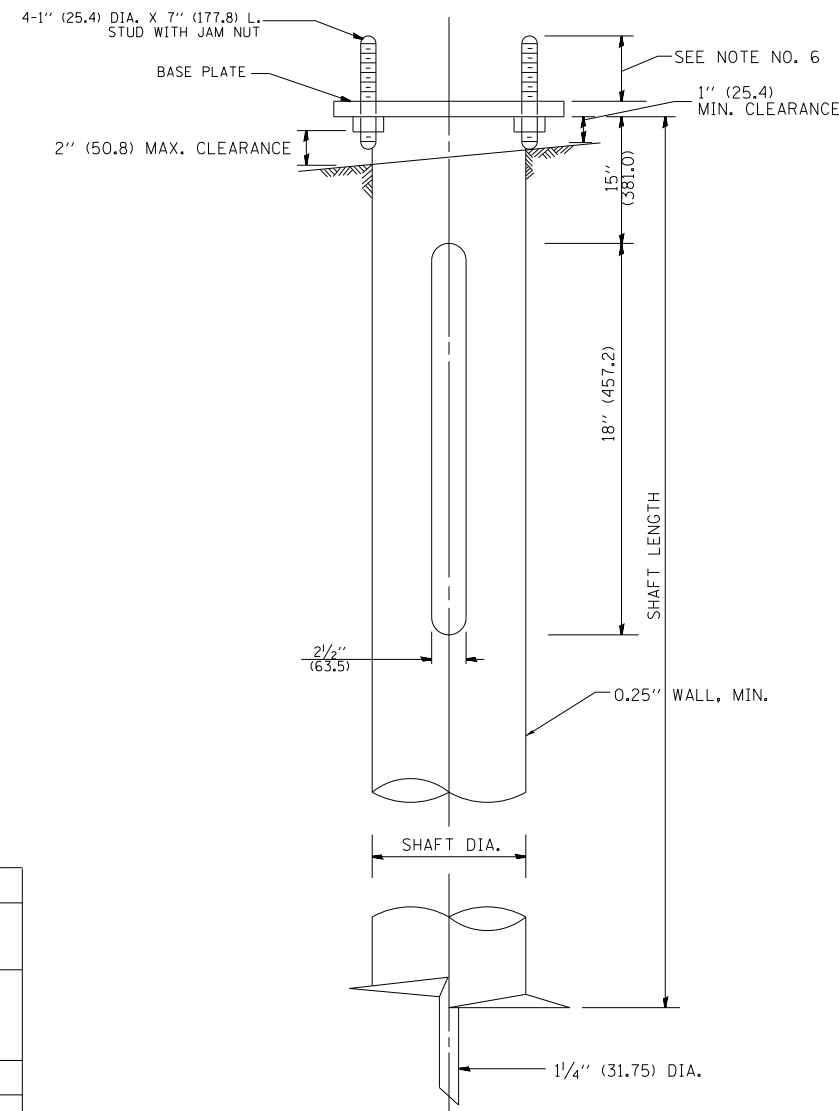
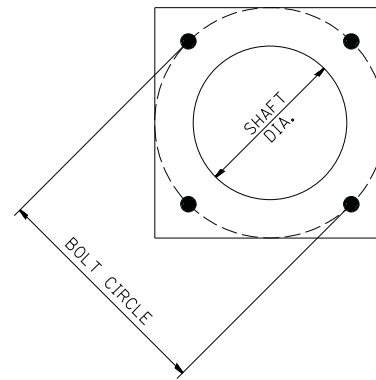
USER NAME = *USER*	DESIGNED - SK	REVISED -
PLOT SCALE = *SCALE*	DRAWN - RM	REVISED -
PLOT DATE = *DATE*	CHECKED - SK	REVISED -
	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT TOWER SERVICE PAD AND
RETAINING WALL REINFORCEMENT (4PEF3, 5REF4)

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	44
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				



HELIX FOUNDATION SIZE

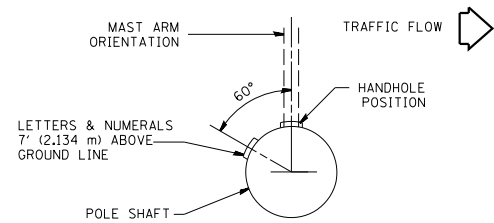
POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	1 1/2"	8 5/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	1 1/2"	8 5/8"	6 FT.	12"x12"x1"
36 FT.-40 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"

METAL HELIX FOUNDATION MATERIALS

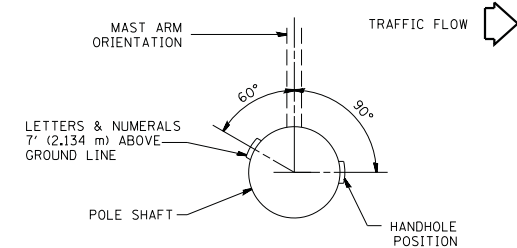
ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M, GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

NOTES:

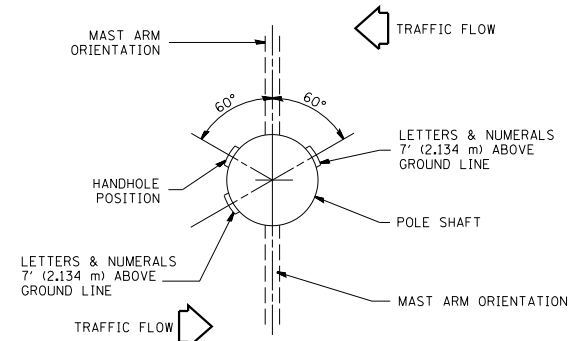
- ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
- ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1/4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
- THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
- THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
- THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
- ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
- METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
- THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
- THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS ($\pm 1^\circ$) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
- THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE ($\pm 2^\circ$).
- THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.



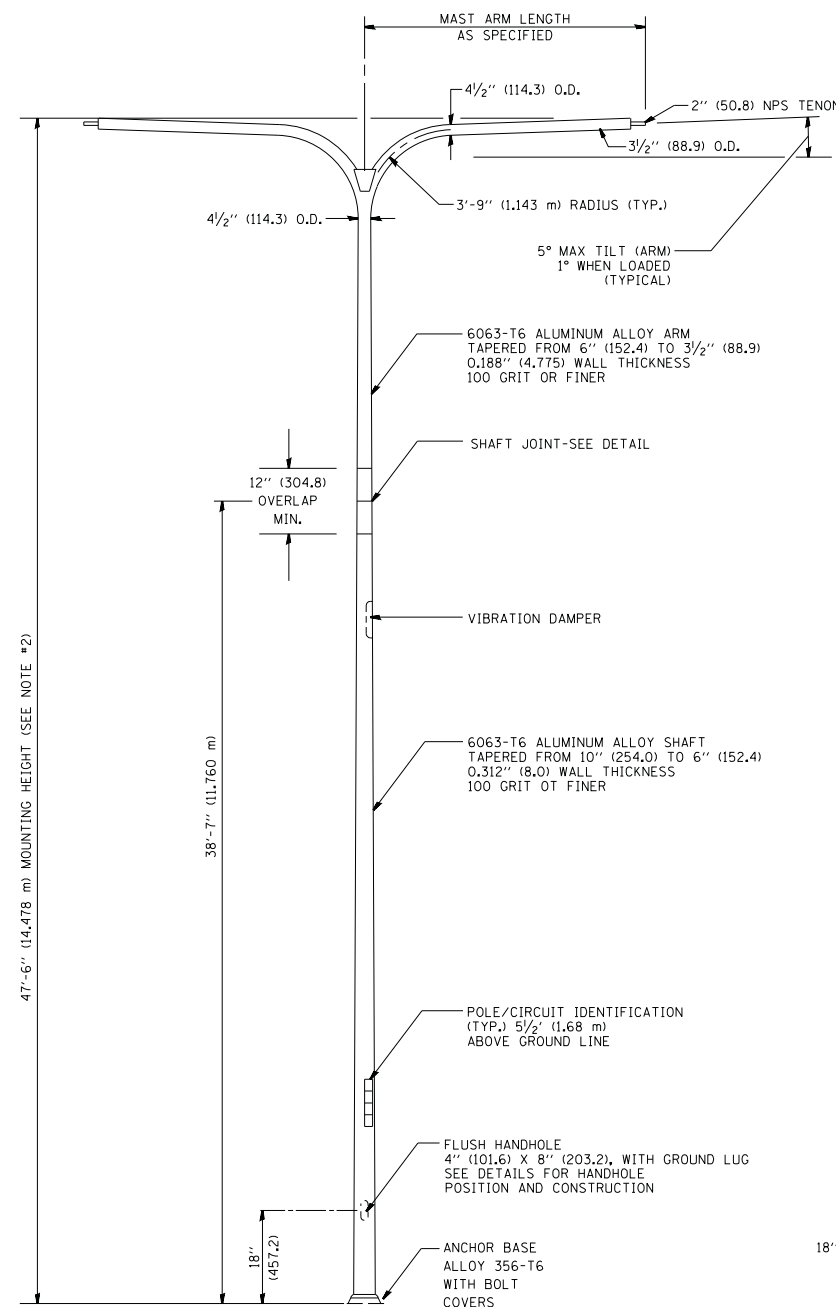
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



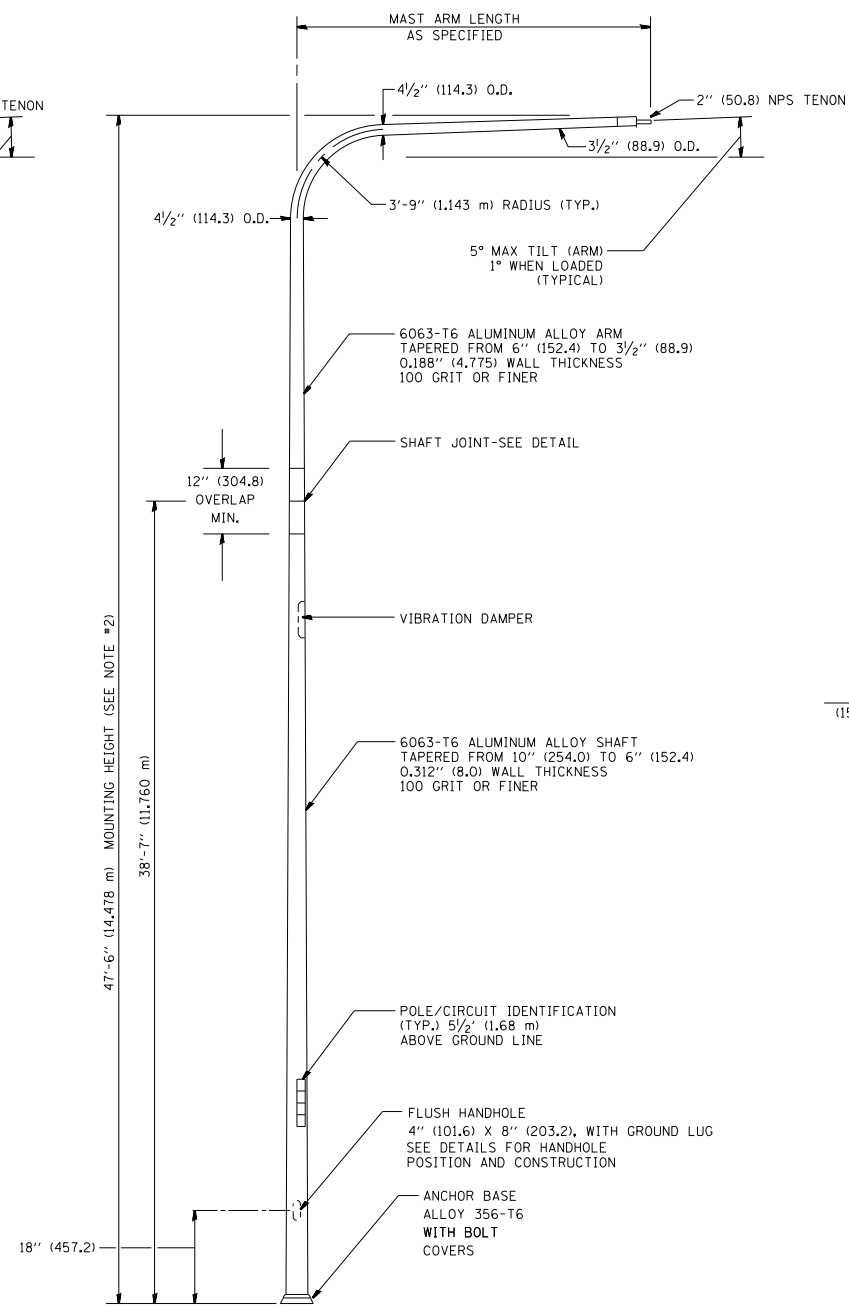
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

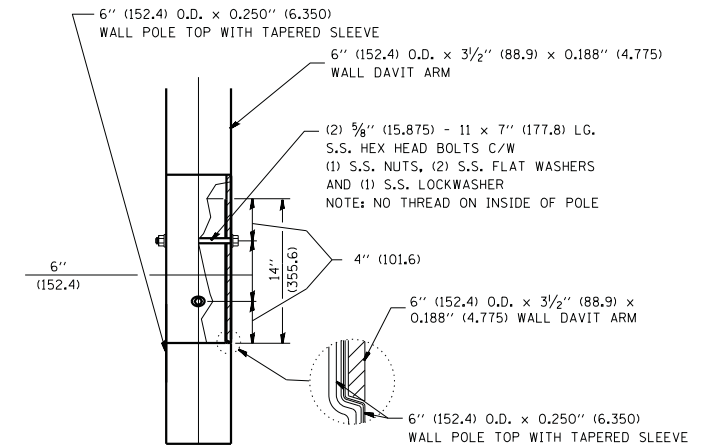


TWIN ARM POLE

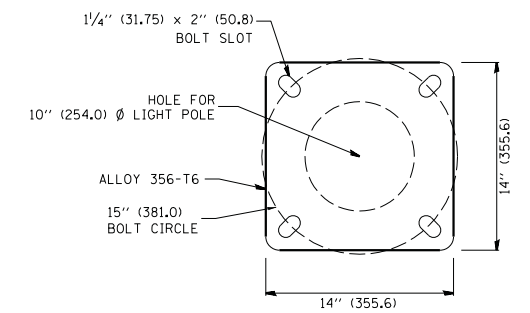


SINGLE ARM POLE

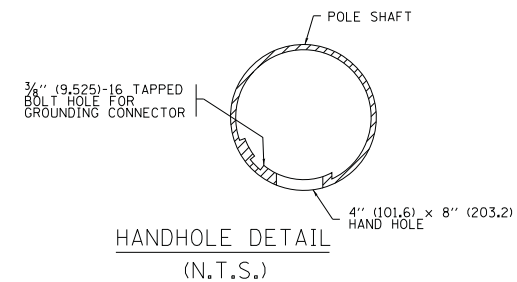
- NOTES:
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
 3. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
 4. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
 5. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR, BURNDY K2C23, T&B SP40L OR APPROVED EQUAL.
 6. LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
 7. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
 8. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.



DAVIT ARM CONNECTION
[14" (355.6) OVERLAP SHOWN]



LIGHT POLE BASE PLATE DETAIL
(FOR POLE MOUNTED ON 15 INCH (381.0) BOLT CIRCLE FOUNDATION)



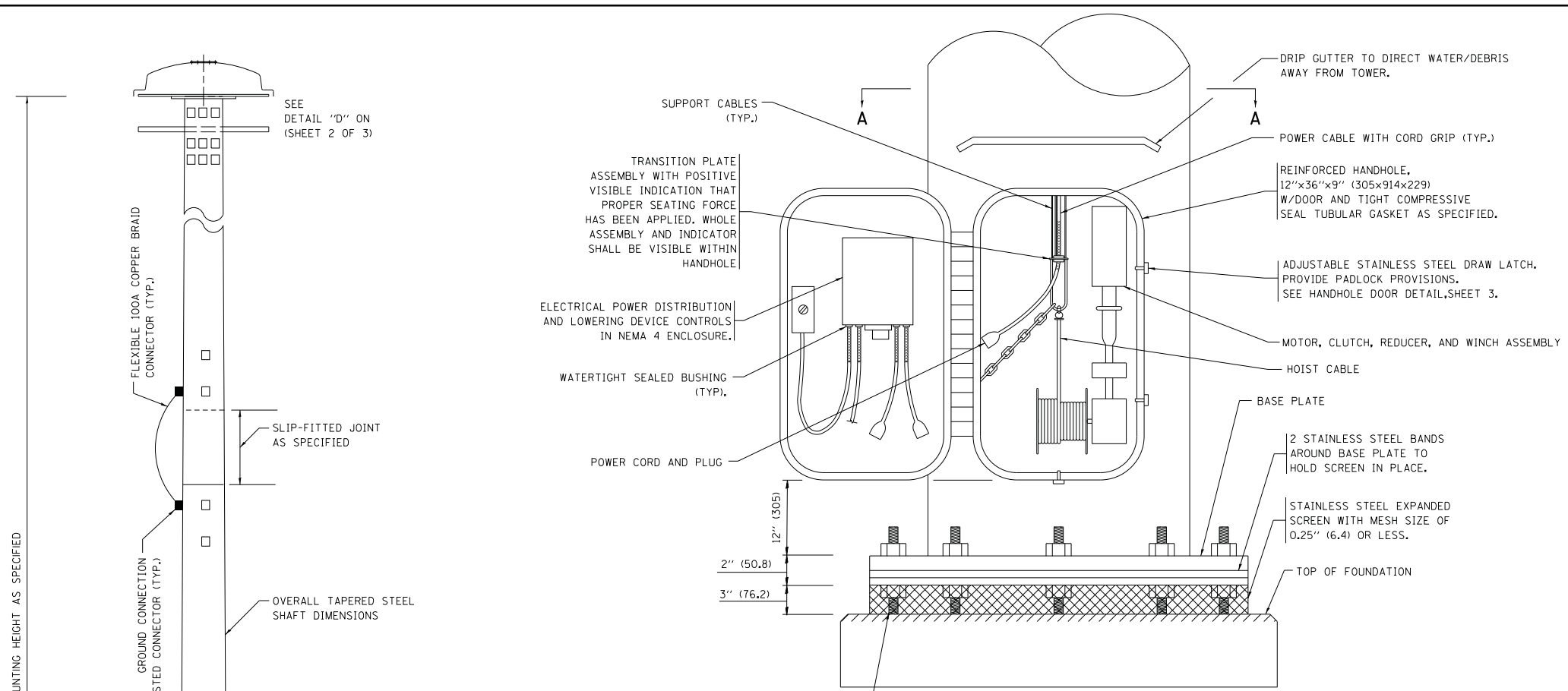
HANDHOLE DETAIL
(N.T.S.)

FILE NAME =	USER NAME = #USER#	DESIGNED -	REVISED - D. DREW 05-07-92
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#MODELNAME#	PLOT DATE = #DATE#	DATE -	REVISED - R. TOMSONS 01-18-13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

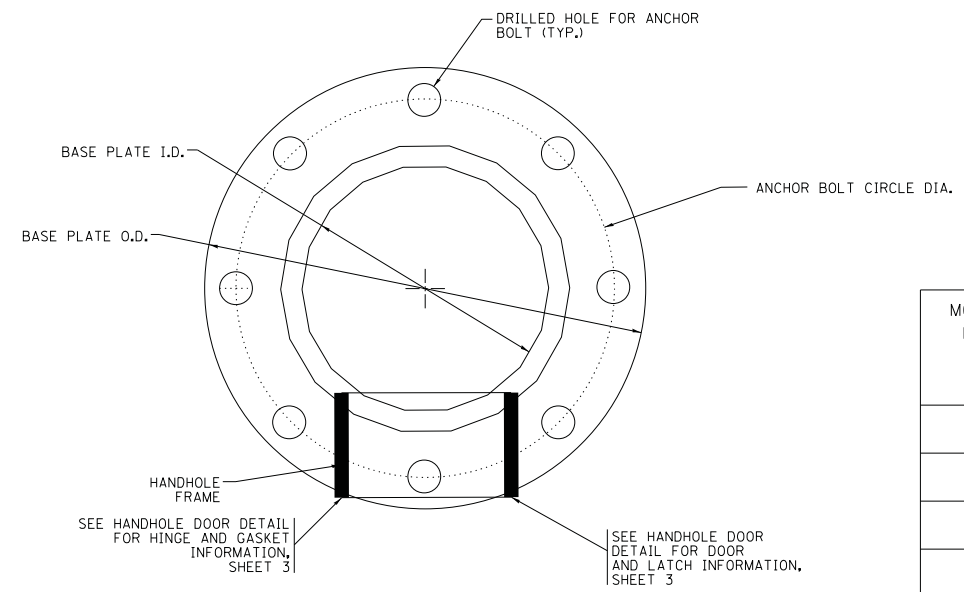
DAVIT LIGHT POLE			
47'-6" (14.478 m) MOUNTING HEIGHT			
SCALE:	SHEET 1	OF 1 SHEETS	STA. TO STA.

SD-02			
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS
			63
	BE-410	CONTRACT NO. 62H54	SHEET NO. 46
ILLINOIS FED. AID PROJECT			



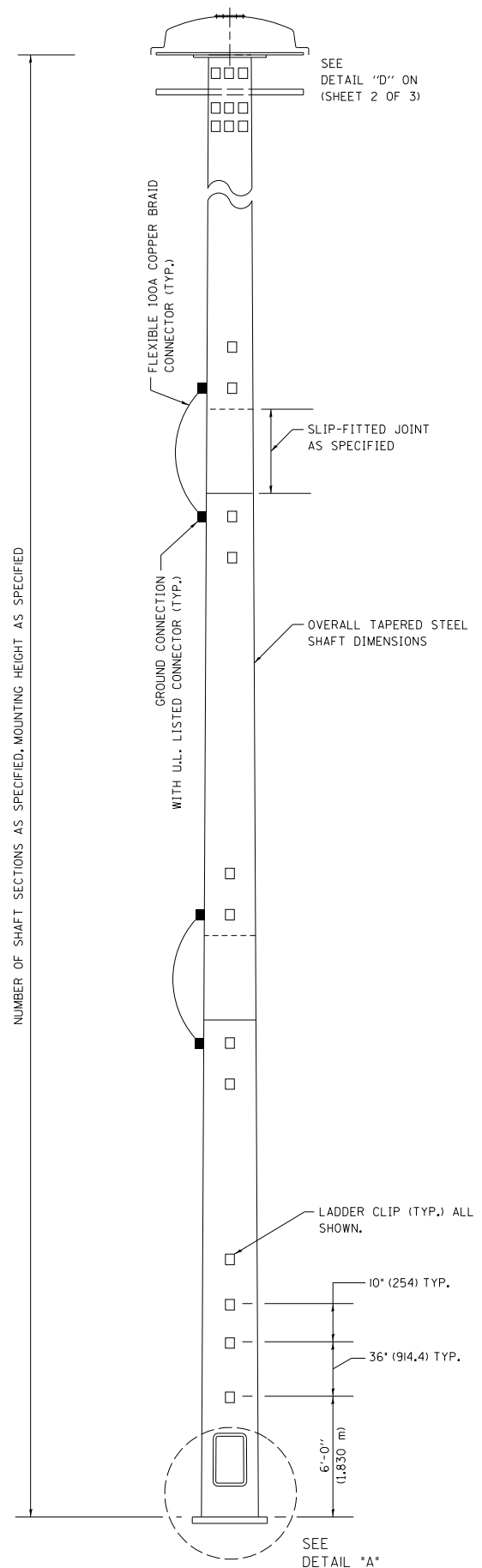
DETAIL- "A"

3 CABLE LOWERING & SUPPORT MECHANISM SHOWN.



SECTION - A-A

NUMBER OF SHAFT SECTIONS AS SPECIFIED, MOUNTING HEIGHT AS SPECIFIED

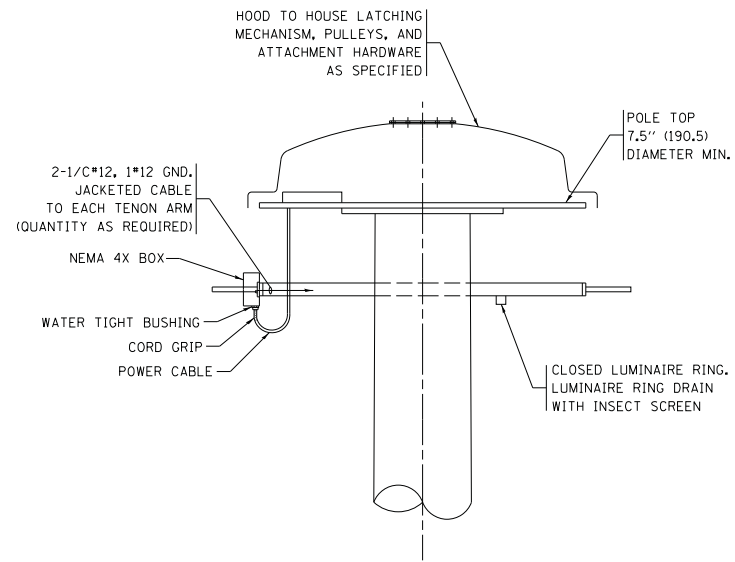


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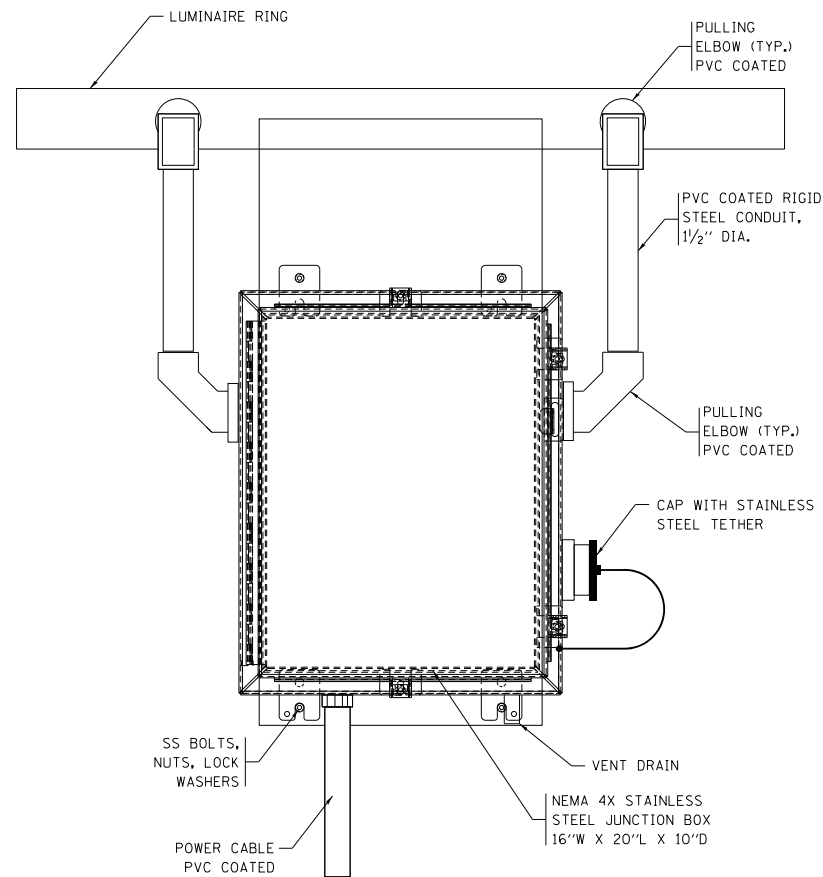
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE DESIGN SHALL BE BASED UPON AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS, HOWEVER THE WIDTH OF REINFORCED OPENING REQUIREMENT IN CHAPTER 5, SECTION 5.6.6.1 SHALL NOT APPLY. LIGHT TOWERS SHALL BE DESIGNED FOR ADT > 10,000, RISK CATEGORY TYPICAL, AND FATIGUE IMPORTANCE CATEGORY I. A MINIMUM TOTAL COMBINED LUMINAIRE WEIGHT OF 600 LB (272 KG) SHALL BE USED PLUS A COMBINED HOOD AREA AND LOWERING RING WEIGHT OF 400 LB (181 KG). THE ASSOCIATED TOTAL PROJECTED AREA SHALL BE 24 SQ FT (2.23 SQ M) AND 10 SQ FT (0.93 SQ.) RESPECTIVELY.
- ALL TOWER SHAFT COMPONENTS, INCLUDING, BUT NOT LIMITED TO THE SHAFT SECTIONS, BASE PLATE, LADDER CLIPS, HANDHOLE DOOR, HANDHOLE REINFORCING, RAIN GUTTER, AND BASE PLATE, SHALL BE FABRICATED FROM HIGH-STRENGTH, LOW ALLOY, STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI (345 K PA) ACCORDING TO AASHTO M 270 (ASTM A 572 GR50)
- THE ELECTRIC MOTOR, MOTOR GEAR REDUCER, WINCH DRUM ASSEMBLY AND AUTOMATIC SHUTOFF SWITCH OF THE LOWERING DEVICE SHALL BE ACCESSIBLE FROM THE FRONT OF THE TOWER FOR EASY REMOVAL AND MAINTENANCE. ALL COMPONENTS SHALL BE REMOVABLE THROUGH THE HANDHOLE.
- THE LIGHT TOWER SHAFT SHALL HAVE LADDER CLIPS. CLIPS SHALL BEGIN 6 FT. (1.8 m) ABOVE THE BASE PLATE WITH ALTERNATE 36 INCH (900) AND 10 INCH (250) SPACING THEREAFTER, FOR THE ENTIRE LENGTH. THE TOP 10 FT. (3 m) OF THE POLE SHAFT SHALL HAVE 3 SETS OF CLIPS. EACH SET OF CLIPS SHALL BE 120 DEGREES APART. CLIPS SHALL BE 0.25 X 2 INCHES (6 X 50) WELDED TO THE SHAFT TO PRODUCE A SLOT 0.625 INCHES (15.9) DEEP AND 1.625 INCHES (41.3) LONG. THE TOP INSIDE EDGE SHALL BE CHAMFERED.
- A COPPER BONDING JUMPER SHALL BOND SLIP-FIT POLE SECTIONS TOGETHER WITH A FLAT COPPER MESH AND STAINLESS STEEL GROUND LUGS.
- ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
- THE ENTIRE TOWER INCLUDING THE SHAFT, HANDHOLE, HANDHOLE DOOR, BASE PLATE AND ALL OTHER ELEMENTS WELDED TO THE SHAFT SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 (ASTM A 123). THE LUMINAIRE RING SHALL BE PRIMED AND PAINTED AS SPECIFIED OR BE STAINLESS STEEL
- ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.
- THE LIGHT TOWER SHALL BE STRAIGHT AND CENTERED ON ITS LONGITUDINAL AXIS, UNDER NO-WIND CONDITIONS, SO WHEN EXAMINED WITH A TRANSIT FROM ANY DIRECTION, THE DEVIATION FROM THE NORMAL SHALL NOT EXCEED 1/8 IN. IN 3 FT (2 mm IN 1 m) WITHIN ANY 5 FT (1.5 m) OF HEIGHT, WITH TOTAL DEVIATION NOT TO EXCEED 3 IN. (75) FROM THE VERTICAL AXIS THROUGH THE CENTER OF THE POLE BASE.
- PVC CONDUIT WILL NOT BE ALLOWED FOR ANY LIGHT TOWER COMPONENT.
- COUNTER WEIGHTS TO BE INCLUDED AS A PART OF THE LIGHT TOWER PAY ITEM.

LIGHT TOWER DIMENSIONS

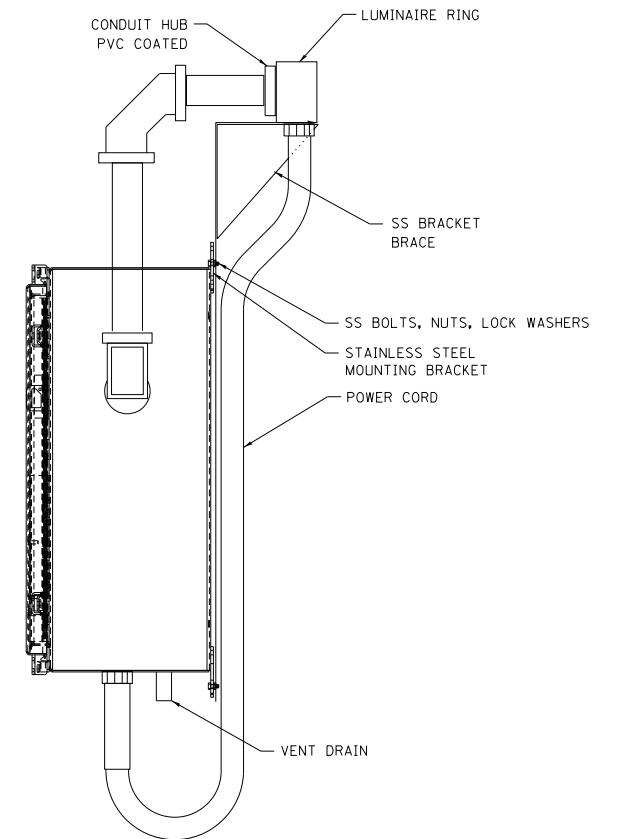
MOUNTING HEIGHT (FEET)	MAXIMUM NUMBER OF SECTIONS	MINIMUM NUMBER OF ANCHOR RODS	MINIMUM TOWER TOP DIAMETER (INCHES)	MINIMUM TOWER BOTTOM DIAMETER (INCHES)	MINIMUM ROD DIAMETER (INCHES)	MINIMUM ANCHOR ROD CIRCLE (INCHES)
100	3	8	7.5	24	1.5	30
110	3	8	7.5	24	1.5	30
120	3	8	7.5	26	1.75	36
130	4	8	7.5	28	1.75	36
140	4	8	7.5	28	1.75	36
150	4	8	7.5	30	2.25	38
160	4	8	7.5	32	2.25	38



DETAIL-"D"

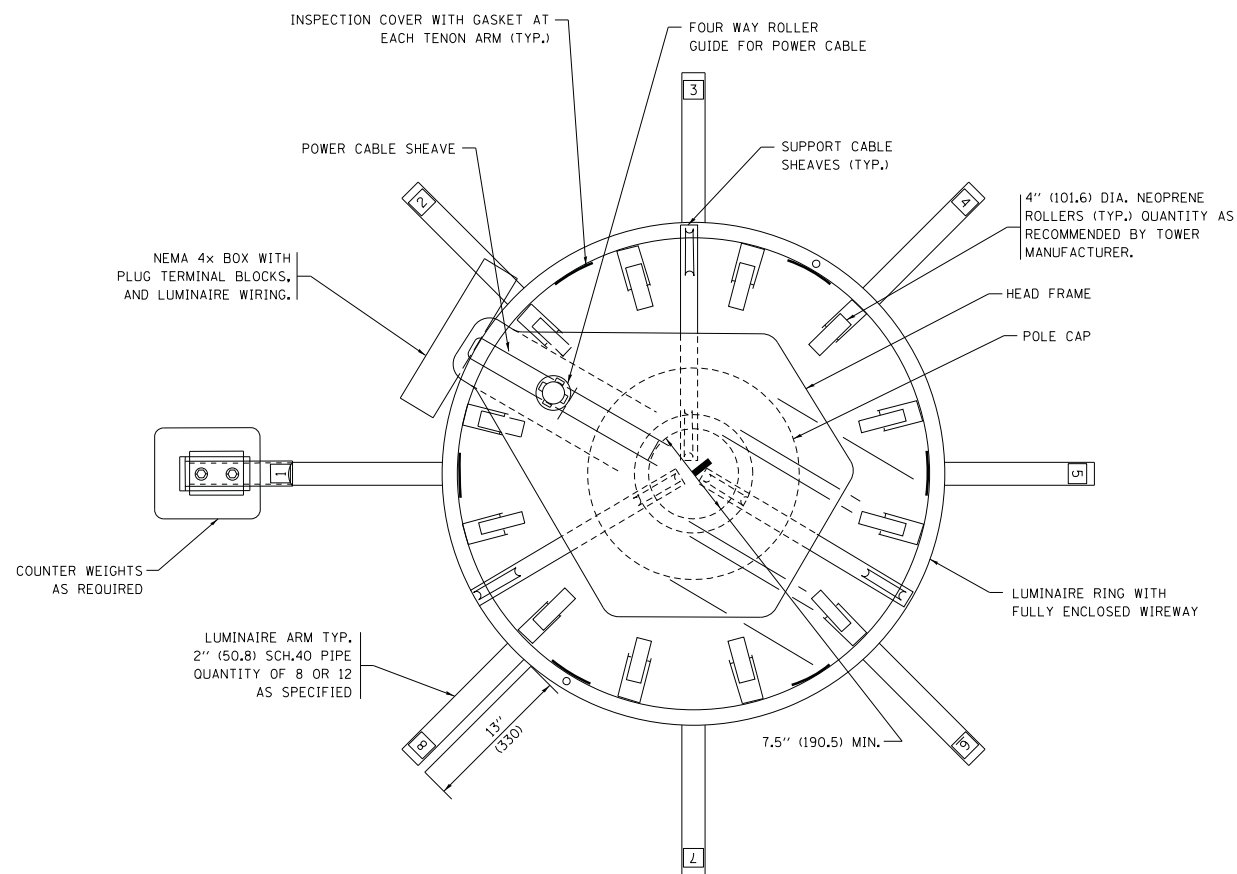


**FRONT VIEW
N.T.S.**



**SIDE VIEW
N.T.S.**

LUMINAIRE RING TERMINAL BOX



NOTES:

- LUMINAIRE WIRES SHALL EXTEND 24 INCHES (609mm) LONGER THAN THE RESPECTIVE TENON ARM AND SHALL BE TRAINED BACK INTO THE ARM WHICH SHALL THEN BE CLOSED WITH A CAP AS SPECIFIED. ALL WIRES SHALL BE CAPPED WITH HEAT SHRINK INSULATING BOOTS. CRIMP CAPS ARE UNACCEPTABLE. ALL RING WIRES SHALL BE TAGGED WITH WIRE MARKERS AT BOTH ENDS. THE TENON ARMS SHALL ALSO BE TAGGED CORRESPONDING TO THE WIRING CONTAINED WITHIN.
- SPLICING WILL NOT BE ALLOWED WITHIN THE LUMINAIRE RING.
- ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
- ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.

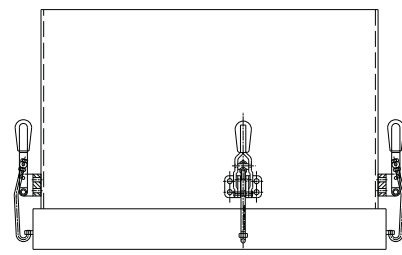
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\$MODELNAME\$	PLOT DATE = \$DATE\$	DATE -	REVISED - R. TOMSONS 07-26-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

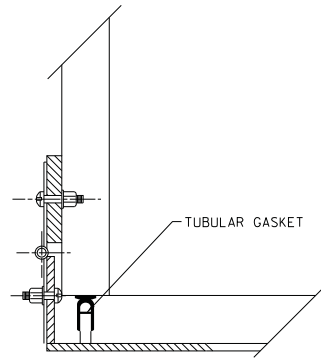
HIGH MAST LIGHT TOWER			
100 FT TO 160 FT (30 m TO 49 m)			
SCALE:	SHEET 2 OF 3 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			63	48
BE-500			CONTRACT NO. 62H54	
ILLINOIS FED. AID PROJECT				

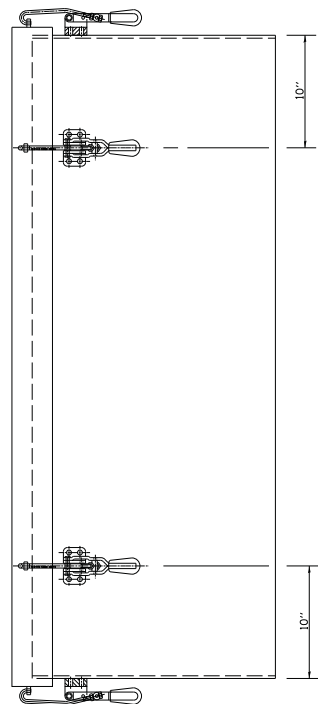
SD-04



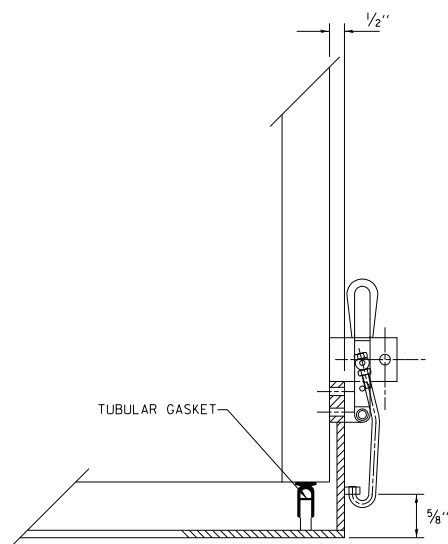
TOP VIEW



HINGE DETAIL

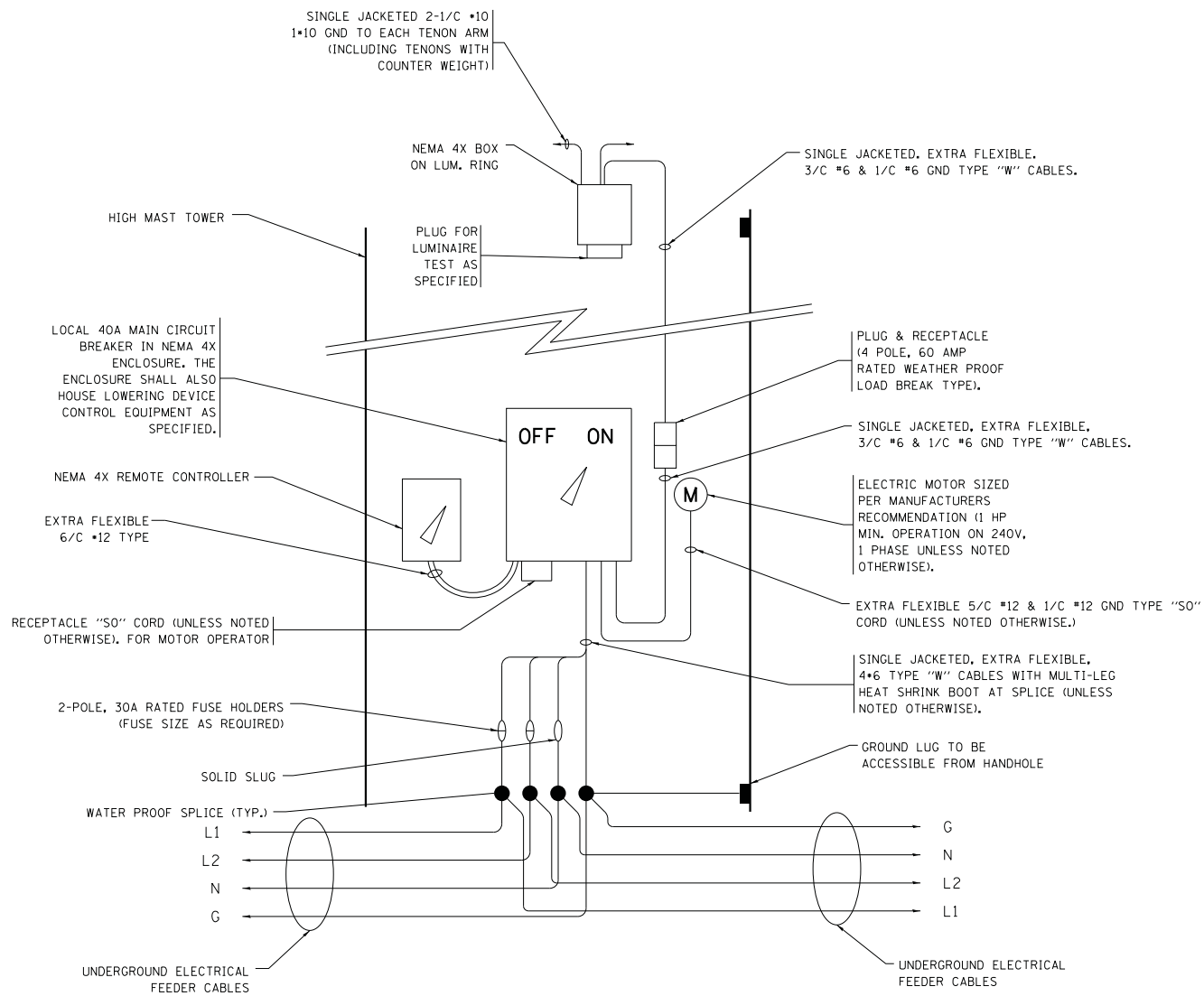


SIDE VIEW

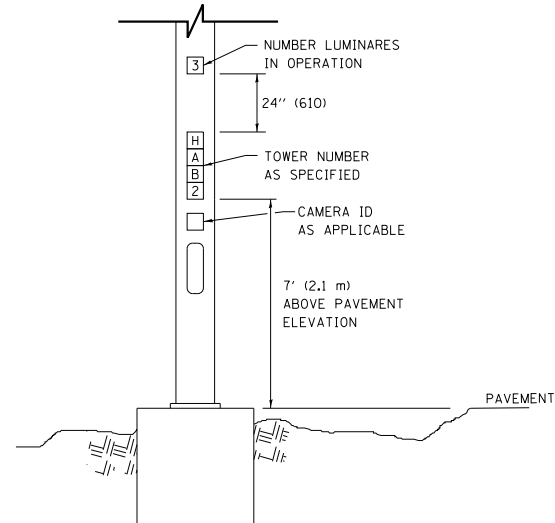


LATCH DETAIL

HANDHOLE DOOR DETAILS



HIGH MAST POLE WIRING DIAGRAM



LIGHT TOWER NUMBERING DETAIL

FILE NAME =	USER NAME = \$USER*	DESIGNED -	REVISED - R. TOMSONS 09-02-10
\$FILEL\$		DRAWN -	REVISED - R. TOMSONS 02-27-13
	PLOT SCALE = \$SCALE*	CHECKED -	REVISED - R. TOMSONS 04-29-16
\$MODELNAME*	PLOT DATE = \$DATE*	DATE -	REVISED - R. TOMSONS 07-26-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER
100 FT TO 160 FT (30 m TO 49 m)

SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

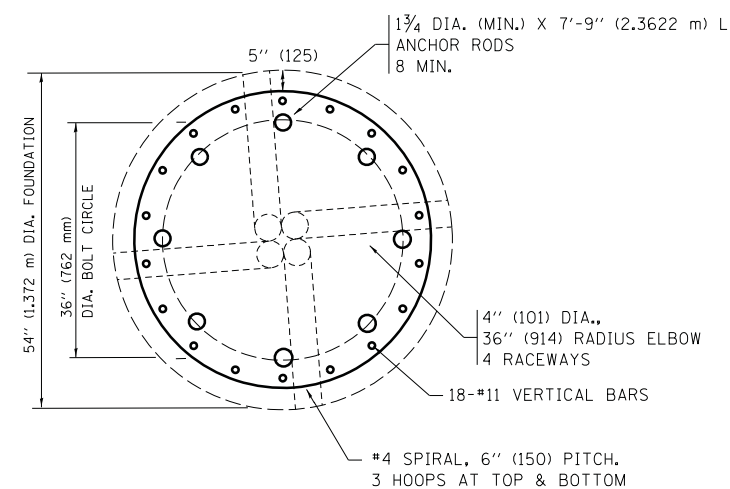
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			63	49
BE-500		CONTRACT NO. 62H54		
ILLINOIS FED. AID PROJECT				

SD-05

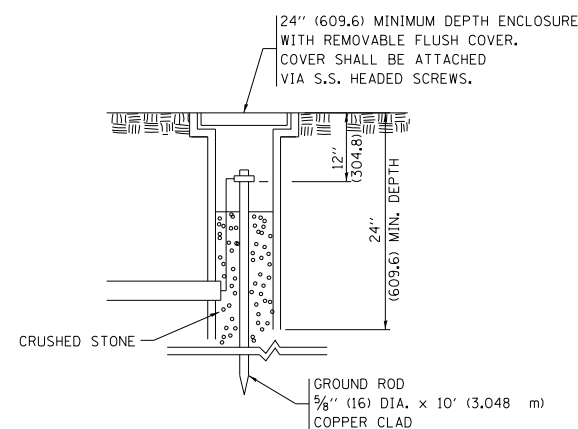
DESIGN NOTES

- ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
- THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
- THE TOP OF THE FOUNDATION TO 18" (457) BELOW GRADE SHALL BE FORMED.
- SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE.
- THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
- ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.9.
- ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS.
- REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
- TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.
- A MINIMUM OF THREE FULL THREADS SHALL REMAIN EXPOSED AFTER LIGHT TOWER IS INSTALLED.
- ALL GROUNDING INDICATED IN THE PLANS SHALL BE INCLUDED IN THE COST OF THE LIGHT TOWER FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
- CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
- ANCHOR ROD QUANTITY, DIAMETER, AND LENGTH SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.
- COORDINATE THE ROD CIRCLE DIAMETER OF THE TOWER WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
- THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.

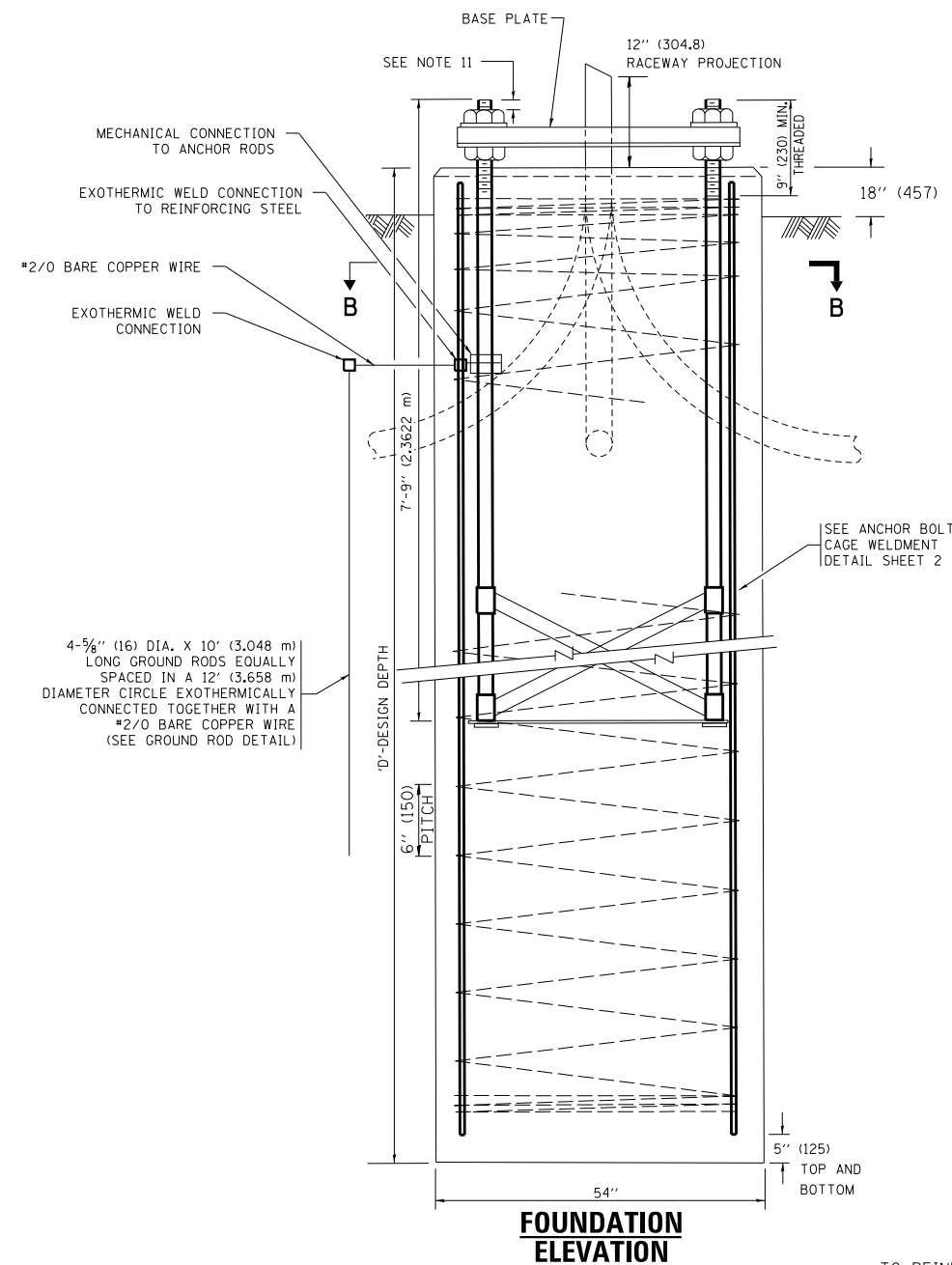
SHAFT LENGTH (D) TABLE					
SOIL CONSISTENCY		AVERAGE STRENGTH Qu In tsf (Qu In kPa)	LIGHT TOWER MOUNTING HEIGHT		
			120 FT. (37 m)	130 FT. (40 m)	140 FT. (43 m)
SOFT		<0.5 (<50)	25'-0" (7.6 m)	26'-6" (8.0 m)	27'-6" (8.3 m)
	MEDIUM	0.5 TO 1 (50 TO 100)	20'-6" (6.2 m)	21'-6" (6.4 m)	22'-0" (6.7 m)
COHESIVE	STIFF	1 TO 2 (100 TO 200)	17'-6" (5.2 m)	18'-0" (5.4 m)	18'-6" (5.5 m)
	VERY STIFF	2 TO 4 (200 TO 400)	15'-0" (4.5 m)	15'-6" (4.6 m)	16'-0" (4.7 m)
HARD		>4 (>400)	13'-6" (4.0 m)	13'-6" (4.1 m)	14'-0" (4.2 m)
		N In BLOWS/FT. (N In BLOWS/0.3m)			
VERY LOOSE		<5 (<5)	19'-0" (6.3 m)	20'-0" (6.0 m)	20'-6" (6.2 m)
	LOOSE	5 TO 10 (5 TO 10)	17'-6" (5.7 m)	18'-0" (5.5 m)	18'-6" (5.6 m)
GRANULAR	MEDIUM	10 TO 25 (10 TO 25)	16'-6" (5.5 m)	17'-0" (5.2 m)	17'-6" (5.3 m)
	DENSE	25 TO 50 (25 TO 50)	15'-6" (5.2 m)	16'-6" (4.9 m)	16'-6" (5.0 m)
VERY DENSE		>50 (>50)	15'-0" (4.5 m)	15'-6" (4.7 m)	16'-0" (4.8 m)



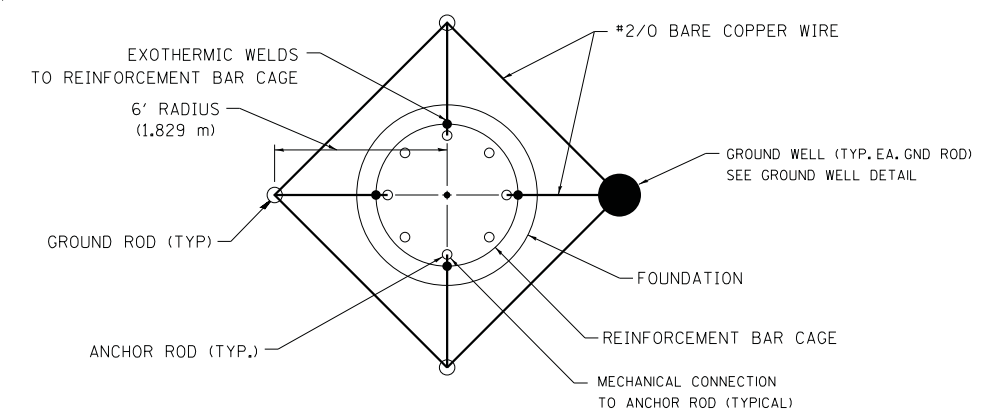
SECTION-B-B



GROUND WELL DETAIL



FOUNDATION ELEVATION



GROUND ROD DETAIL

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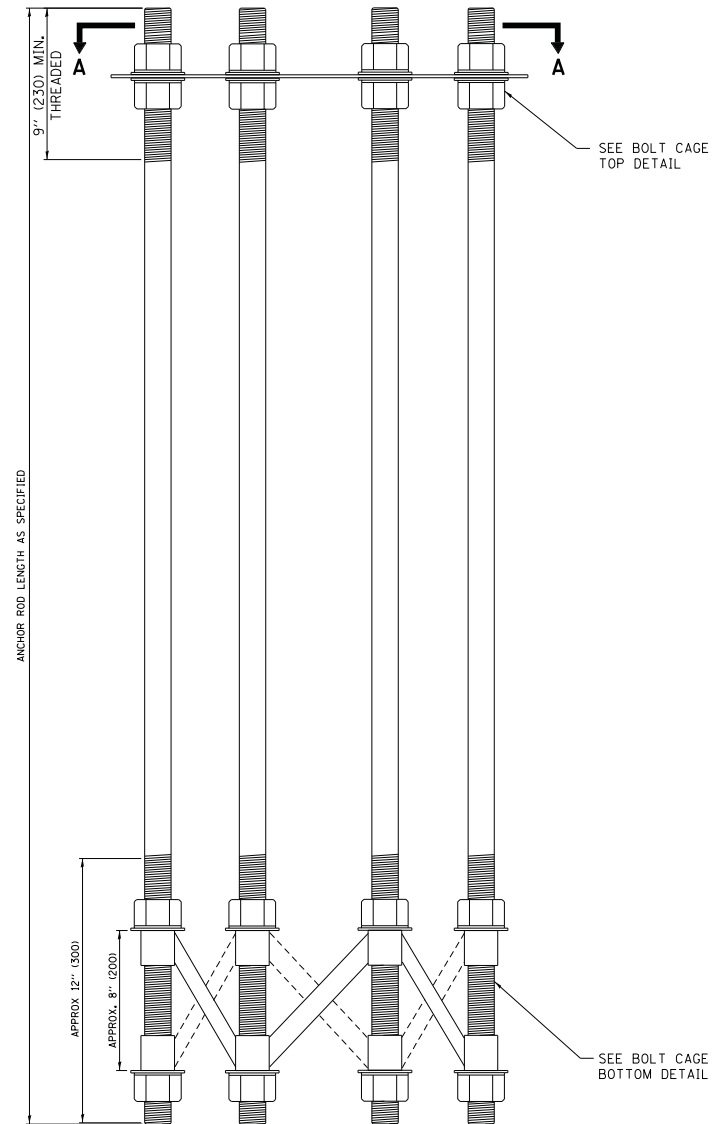
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER
120 FT TO 140 FT FOUNDATION DETAIL

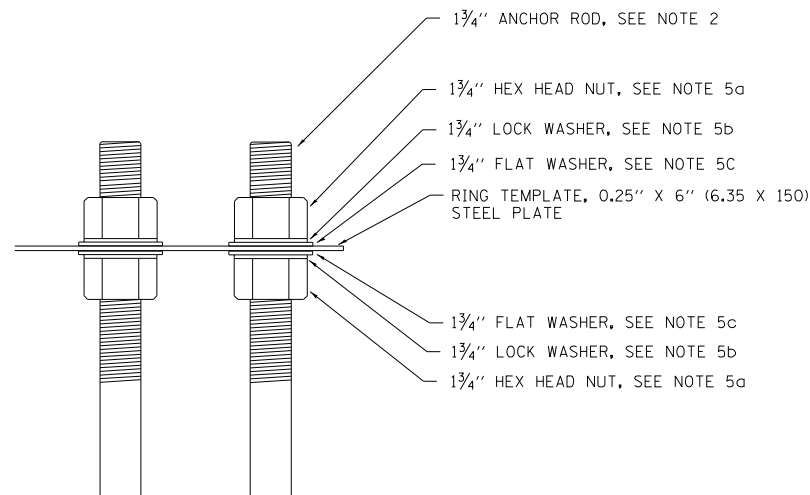
SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			63	50
BE-506		CONTRACT NO. 62H54		
ILLINOIS FED. AID PROJECT				

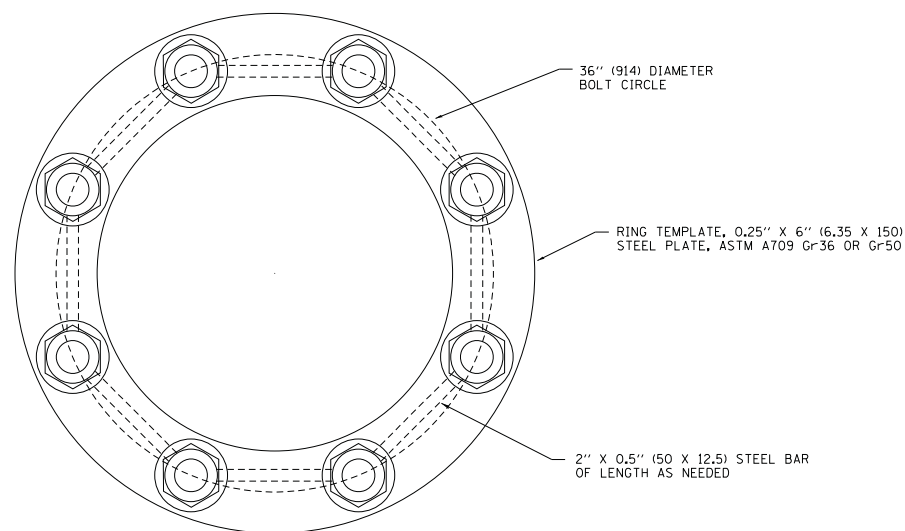
SD-06



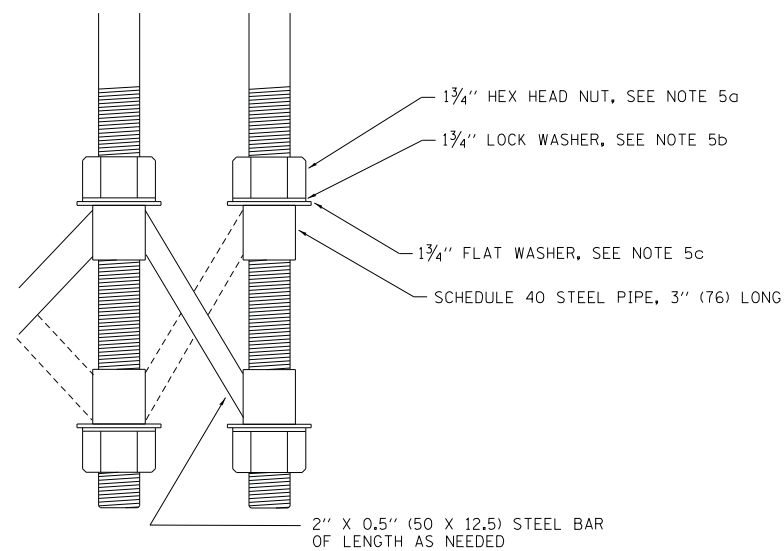
ANCHOR BOLT CAGE



BOLT CAGE TOP



SECTION A-A



BOLT CAGE BOTTOM

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
2. ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.09.
3. ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED WITH TOWER MANUFACTURERS REQUIREMENTS
4. CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
5. ANCHOR ROD CAGE HARDWARE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - a) 1.5 (38) HEX HEAD NUTS
AASHTO M291, GRADE C, C3, D ,DH OR DH3
HOT DIPPED GALVANIZED AASHTO M 232
 - b) 1.5 (38) HELICAL LOCK WASHERS
ANSI/ASME B18.21.1
I.D. 1.504 - 1.524
O.D. 2.159 MAX.
WIDTH 0.292 MIN.
THICKNESS 0.375 MIN.
HARDNESS 26-45 ROCKWELL C
HOT DIPPED GALVANIZED AASHTO M232
 - c) 1.5 (38) FLAT WASHERS
AASHTO M293
O.D. 2.75
I.D. 1.56
THICKNESS 0.16 - 0.25
HARDNESS 26-45 ROCKWELL C.
HOT DIPPED GALVANIZED AASHTO M232
6. THE SHAFT LENGTHS SHALL BE BASED ON SOIL BORINGS IN THE PLANS AND OR A DETERMINATION OF SOIL CONDITIONS BY THE ENGINEER.
7. ALL FOUNDATION REINFORCEMENT STEEL SHALL BE EPOXY COATED.
8. THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.
9. ANCHOR RODS AND ALL ASSOCIATED HARDWARE ARE SHOWN AS MINIMUMS. SIZING SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.

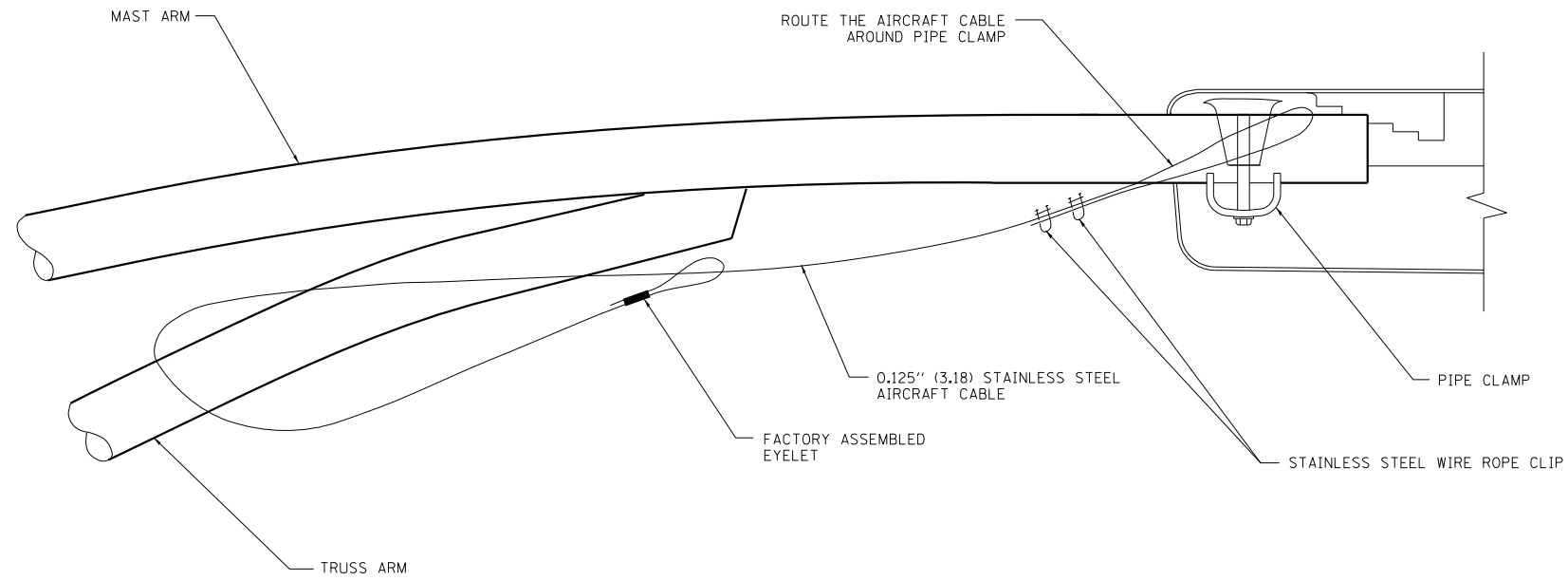
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

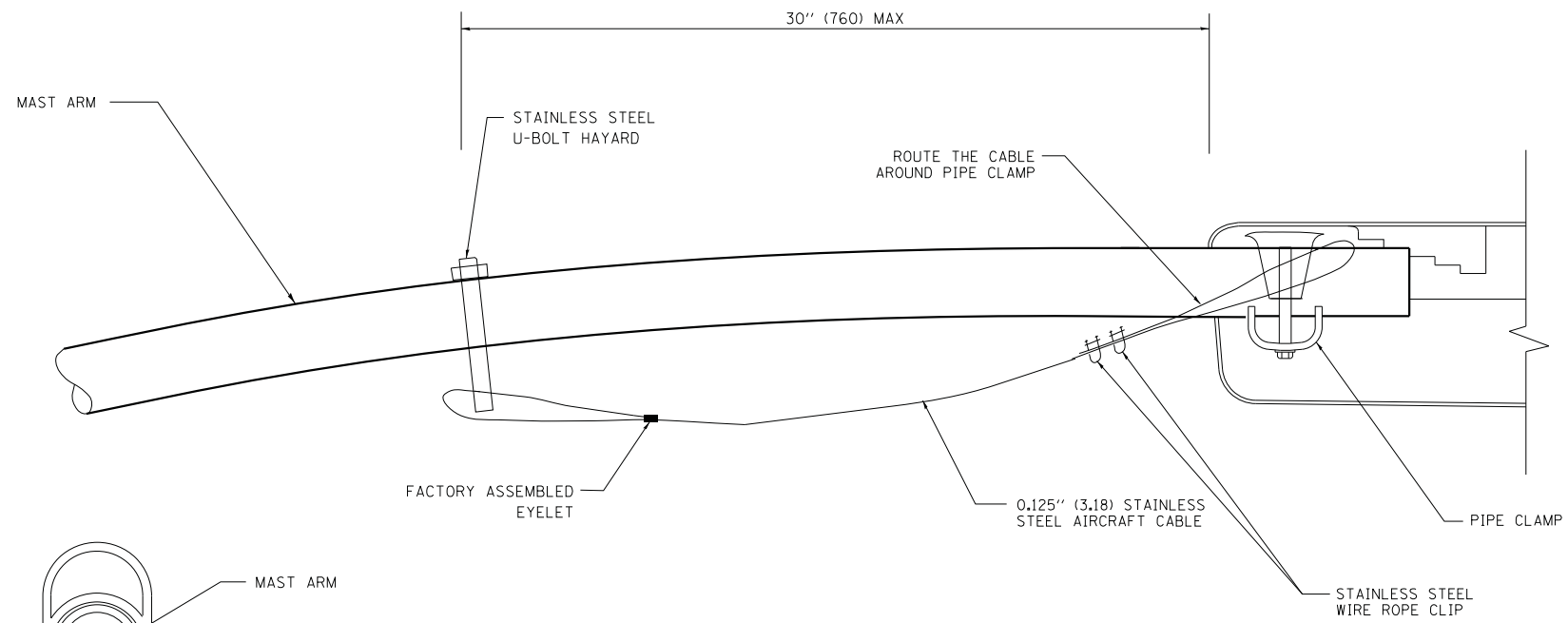
HIGH MAST LIGHT TOWER			
120 FT TO 140 FT FOUNDATION DETAIL			
SCALE:	SHEET 2 OF 2 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			63	51
BE-506		CONTRACT NO. 62H54		
ILLINOIS FED. AID PROJECT				

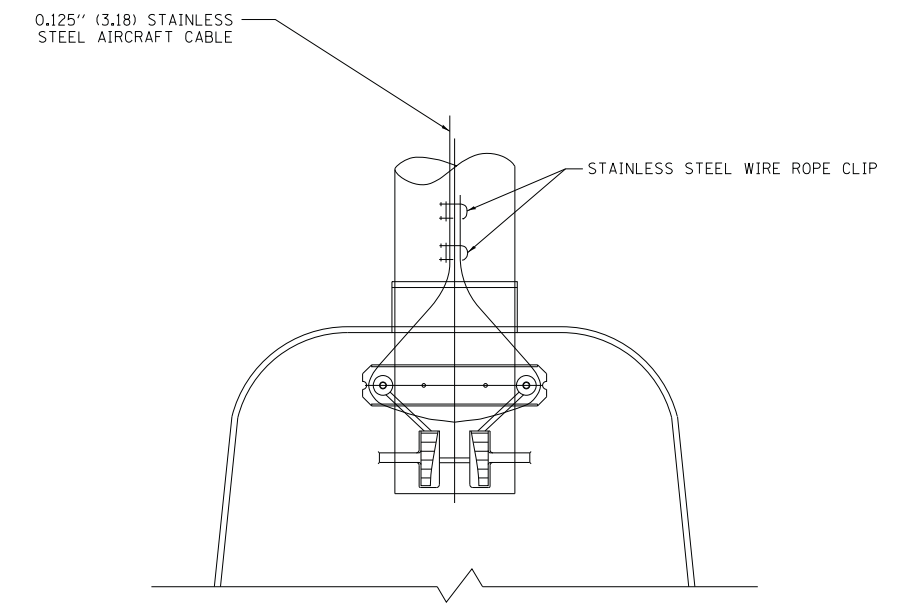
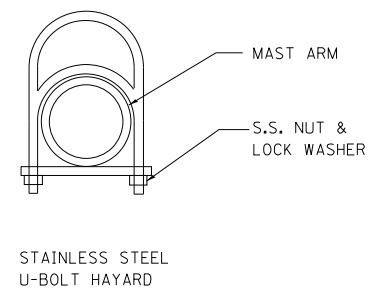
SD-07



SIDE VIEW (TRUSS ARM)
N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.

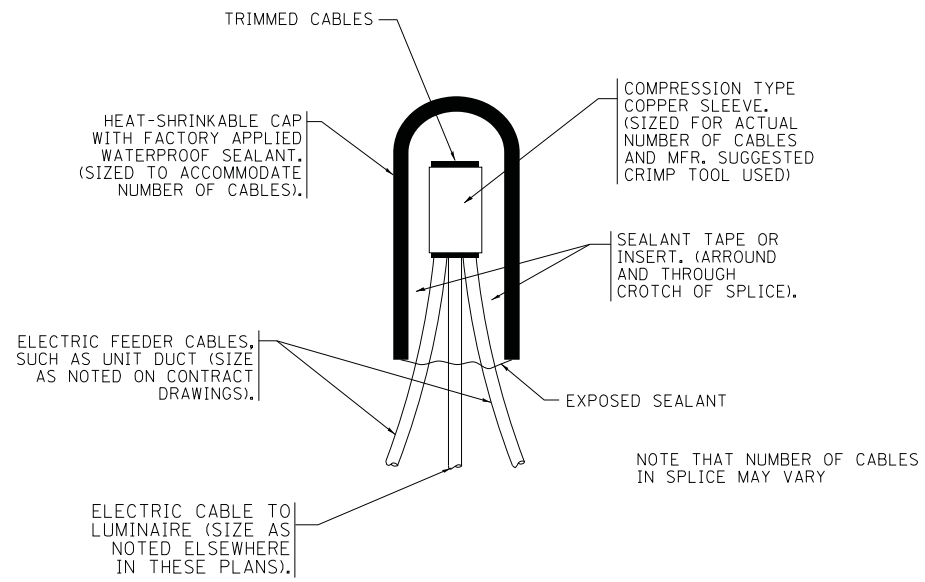


BOTTOM VIEW
N.T.S.

NOTES:

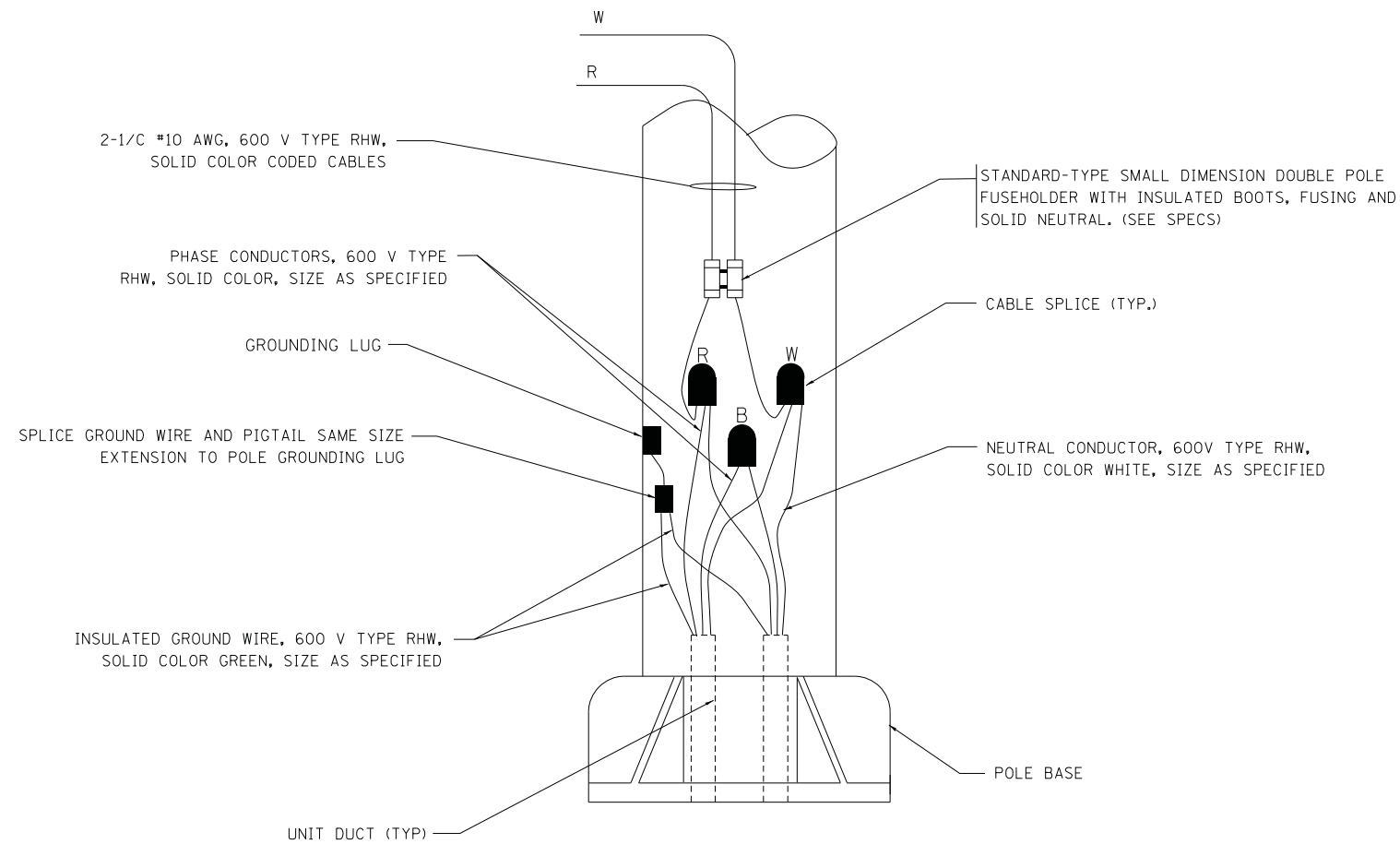
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

FILE NAME = *FILEL*	USER NAME = *USER*	DESIGNED - DRAWN -	REVISED - 08-08-03 REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LUMINAIRE SAFETY CABLE ASSEMBLY			F.A. RTÉ.	SECTION	COUNTY	TOTAL SHEETS 63	SHEET NO. 52
MODELNAME	PLOT SCALE = *SCALE*	CHECKED -	REVISED -					BE-701			CONTRACT NO. 62H54	
	PLOT DATE = *DATE*	DATE -	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	



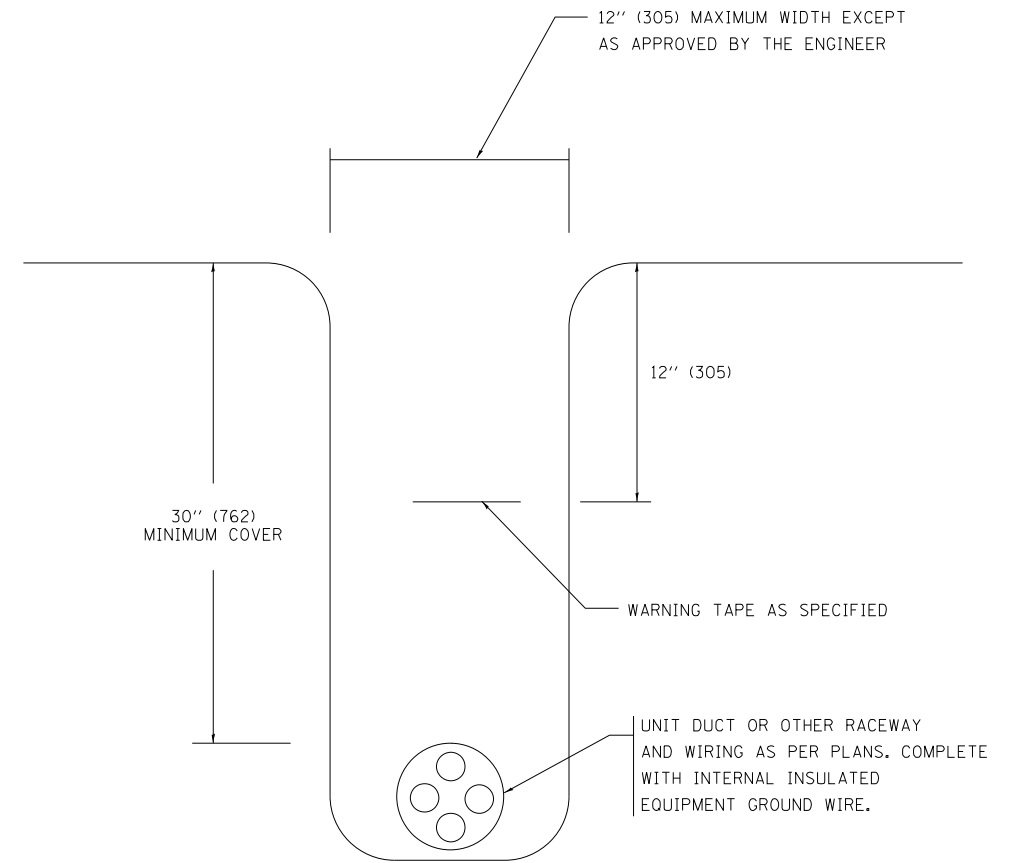
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.

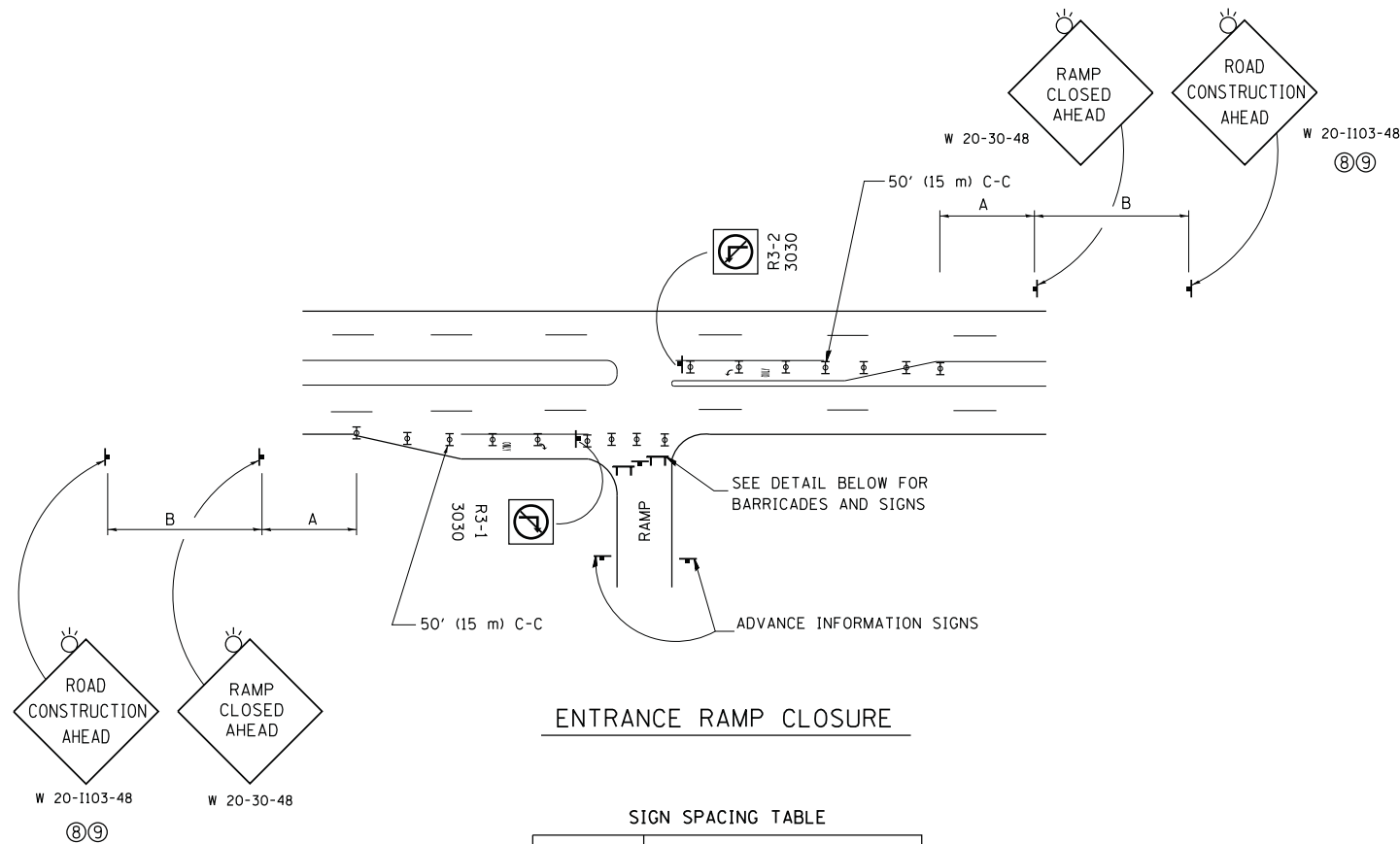


TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

FILE NAME =	USER NAME = \$USER*	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISC. ELECTRICAL DETAILS SHEET A			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILEL		DRAWN -	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	63	53
MODELNAME	PLOT DATE = \$DATE*	CHECKED -	REVISED -		BE-702			CONTRACT NO. 62H54			<small>ILLINOIS FED. AID PROJECT</small>	
		DATE -	REVISED -									

SD-09

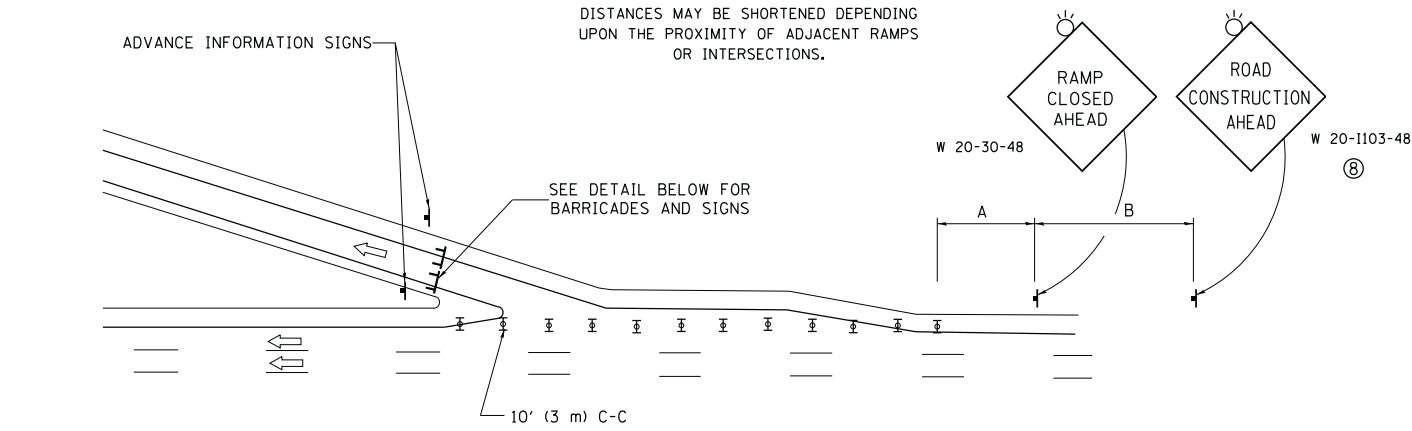


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY <24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

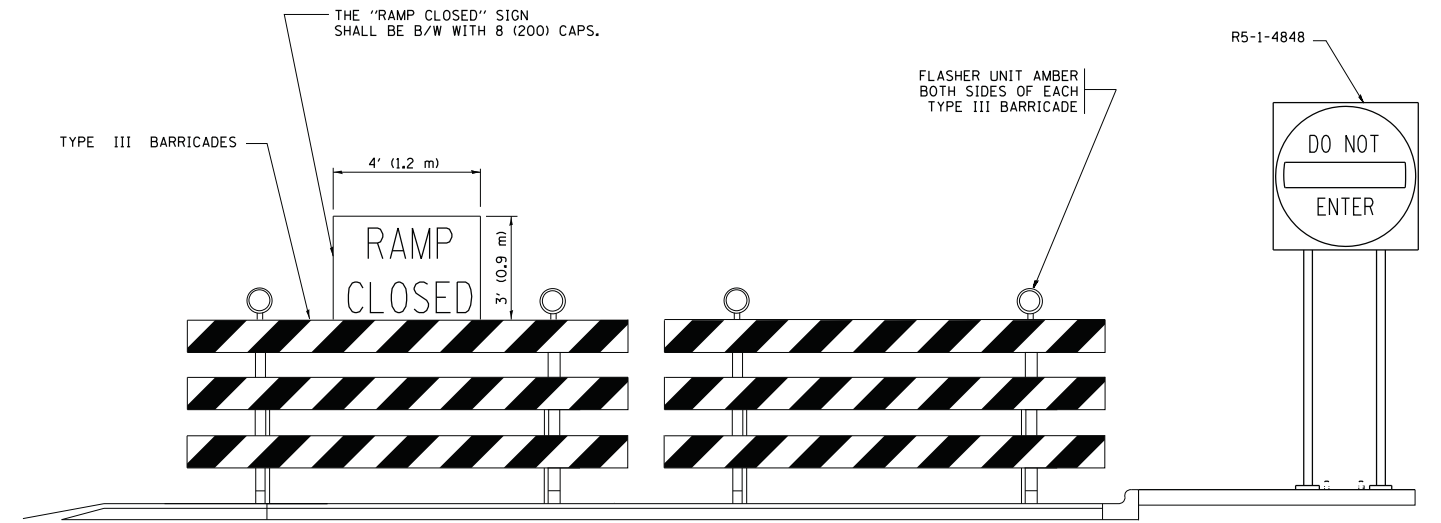
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

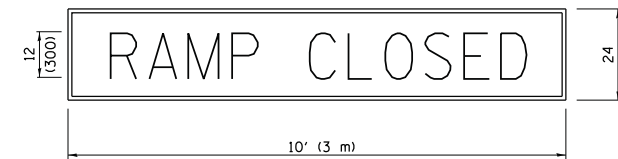
SYMBOLS

- ⊥ TYPE II BARRICADE OR DRUM
- ⊥ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

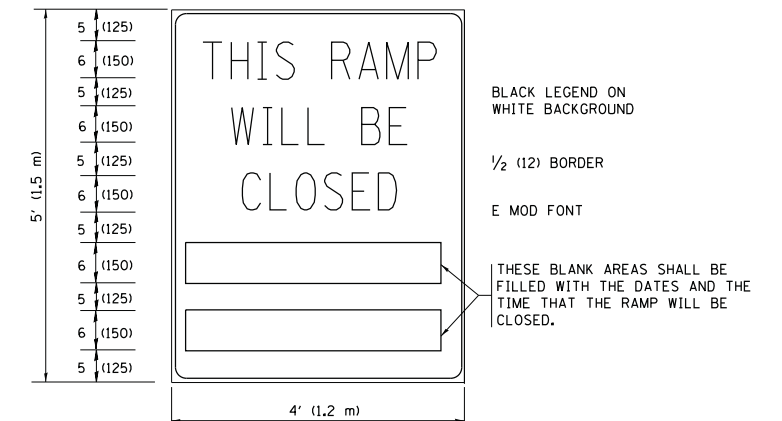
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② VERTICAL BARRICADES SHALL NOT BE USED FOR RAMP CLOSURES.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS. ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

SD-10

FILE NAME =	USER NAME = footemj	DESIGNED - D.W.S.	REVISED - S.P.B. 01-07
p:\work\084EBID\INTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\084EBID\CADD\Drawings\CD\Drawings\to08.dgn		CHECKED -	REVISED - S.P.B. 12-09
Default	PLOT SCALE = 50.000' / in.	DATE - 02-83	REVISED - M.D. 06-13
	PLOT DATE = 11/27/2017		REVISED - M.D. 01-18

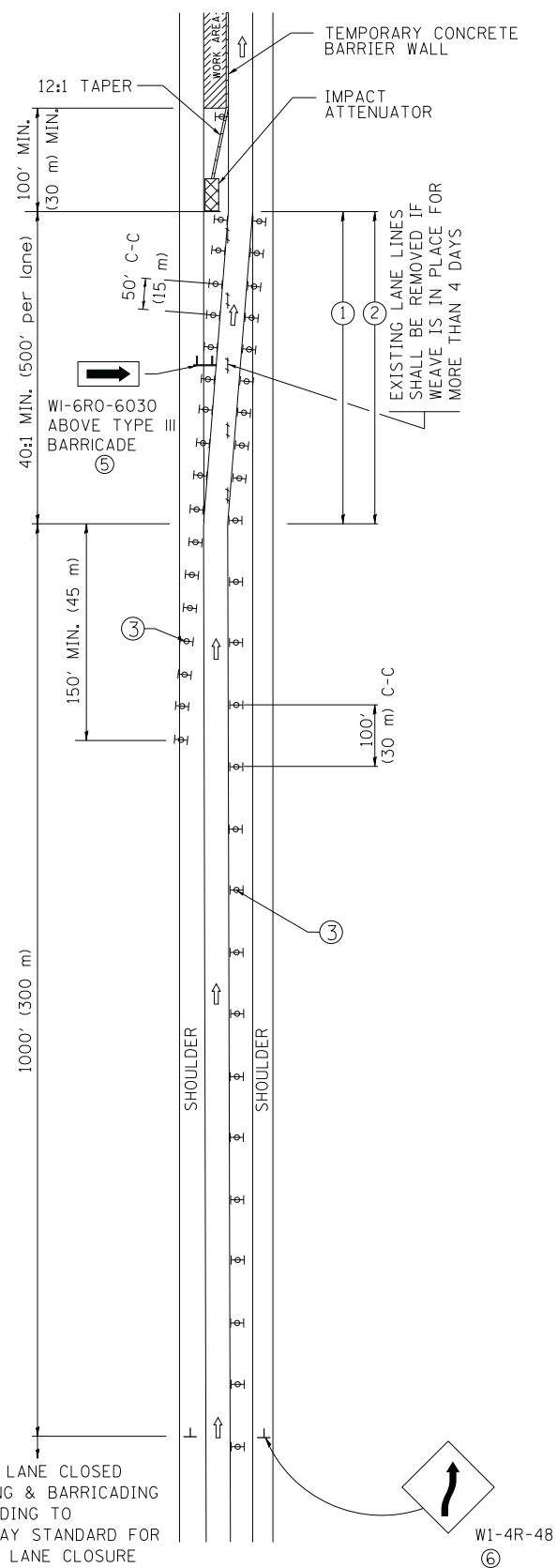
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ENTRANCE AND EXIT RAMP
CLOSURE DETAILS

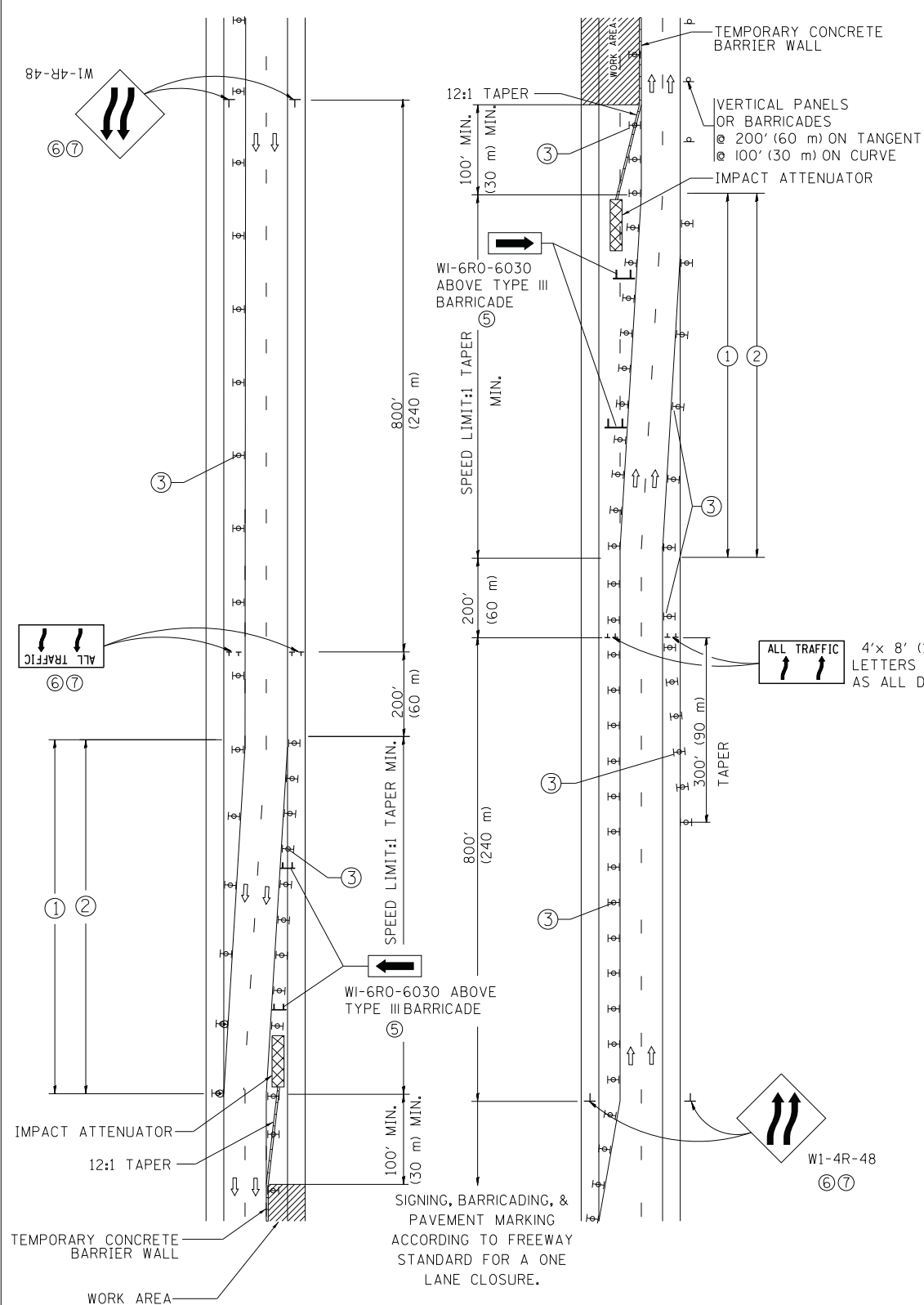
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-08		63	54
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H54	

SINGLE LANE WEAVE



MULTI-LANE WEAVE



GENERAL NOTES

- ① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
- ② CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
- ③ PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
- ④ ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- ⑤ TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
- ⑥ WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
- ⑦ THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

4'x 8' (1.2 m x 2.4 m); 1 (25) BORDER; 10 (250) CAPITAL LETTERS BACKGROUND SHEETING SHALL BE THE SAME AS ALL DIAMOND SHAPED CONSTRUCTION SIGNS.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W1-4R-48
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = c:\pwork\pwork\footem\0108315\tc09.dgn	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTI-LANE WEAVE			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 50.000' / in.	CHECKED -	REVISED - SPB 01-07								63	55	
	PLOT DATE = 7/1/2013	DATE - 02-87	REVISED - SPB 12-09								TC-09		CONTRACT NO. 62H54
			REVISED - MD 06-13					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

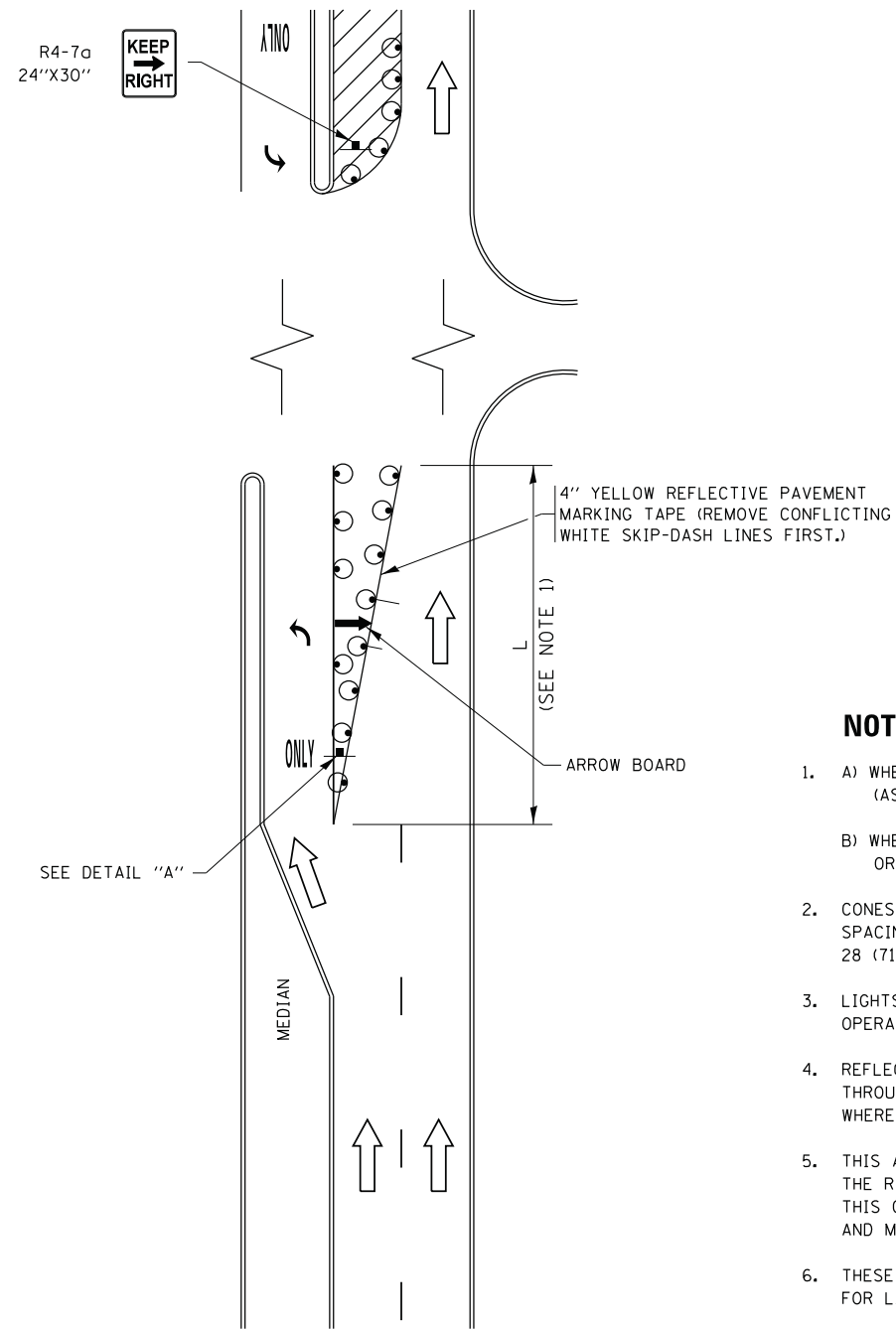


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

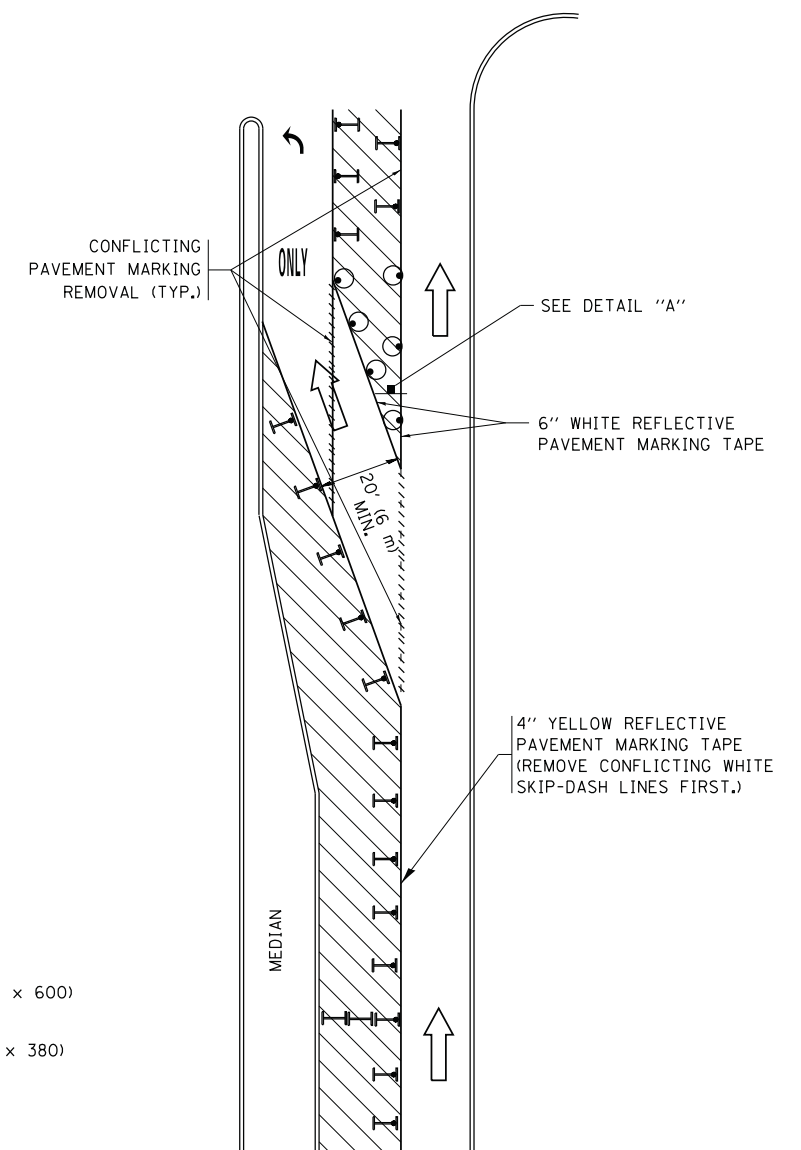


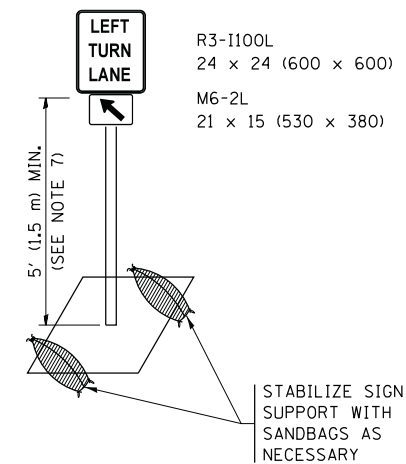
FIGURE 2

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

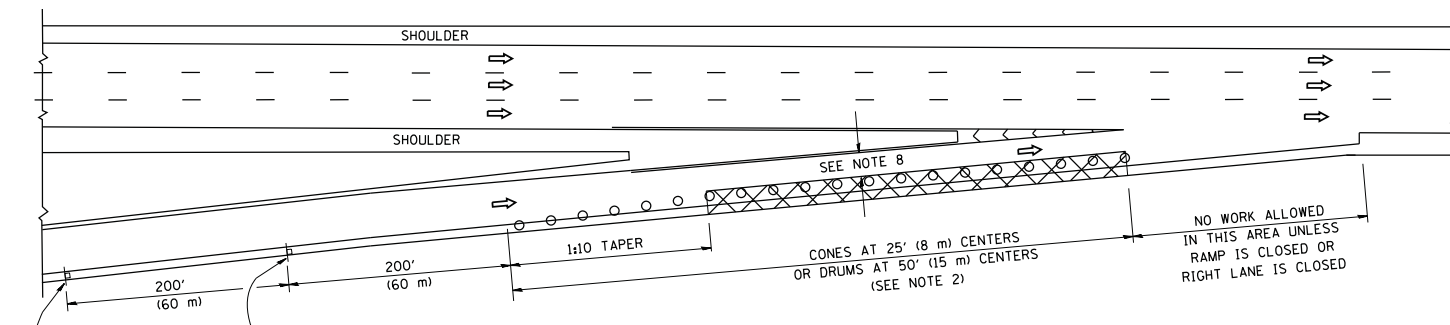


DETAIL A

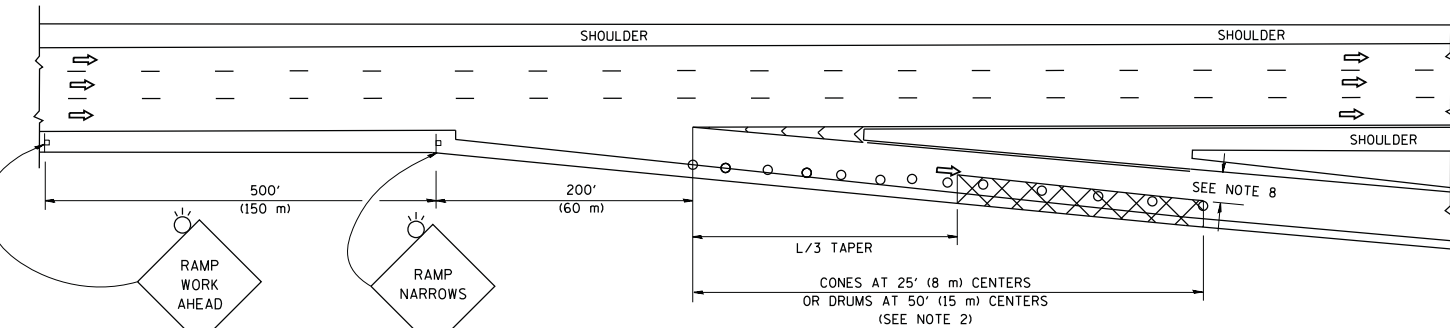
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = footemj	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
pw:\IL\084EBIDINTEG\illinois.gov\PIDOT\Documents\IDOT Offices\District 1\Projects\Dist 1\ADDData\CAHOUSEH1407-95	REVISED - A. HOUSEH 10-07-95	REVISED - A. SCHUETZE 07-01-13	REVISED - A. SCHUETZE 09-15-16		SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.	TC-14	CONTRACT NO.	63	56
Default	PLOT SCALE = 50.0000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED -		ILLINOIS FED. AID PROJECT									
	PLOT DATE = 9/15/2016	REVISED - T. RAMMACHER 01-06-00	REVISED -											

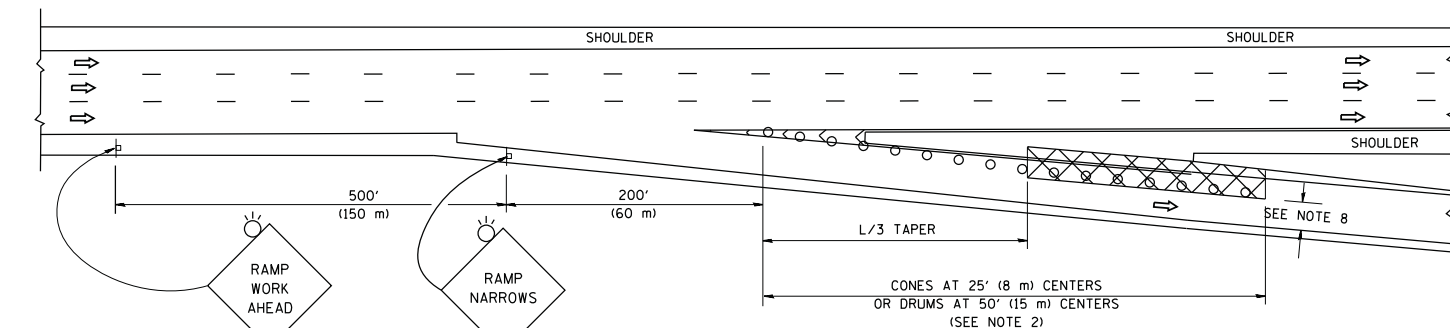
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

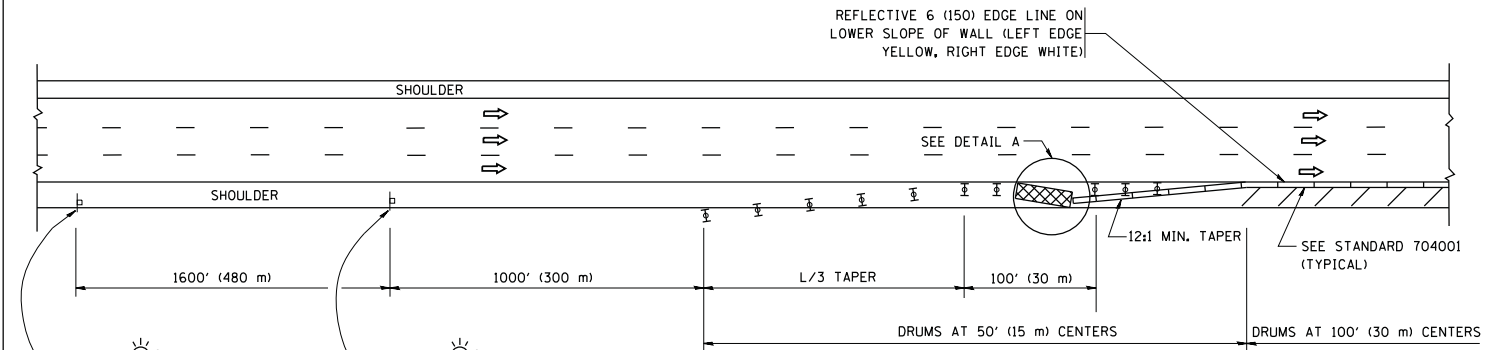
- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE OR DRUM
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

GENERAL NOTES

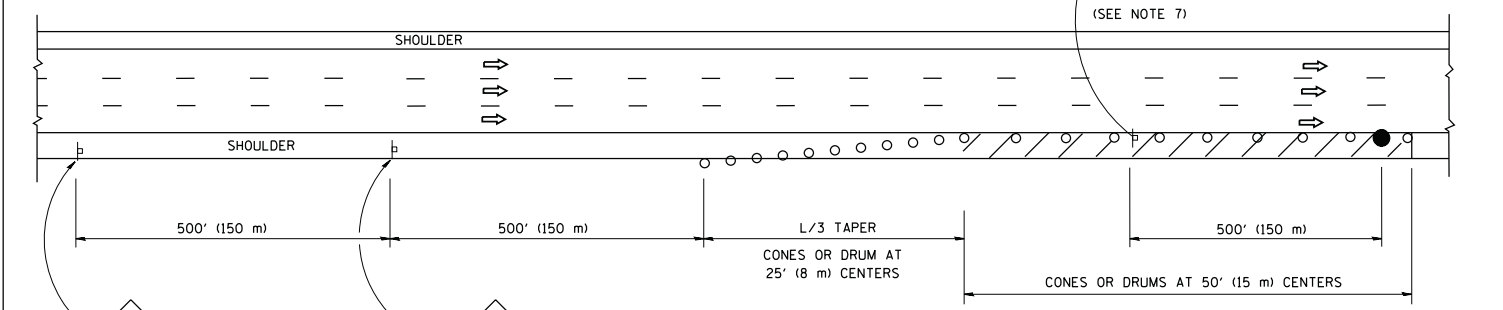
1. THE "L" DISTANCE EQUALS:

SPEED LIMIT	FORMULAS
45 mph (80 km/h) OR GREATER:	METRIC: $L=0.65(W)(S)$ ENGLISH: $L=(W)(S)$
	W = WIDTH OF OFFSET IN FEET (METERS)
	S = NORMAL POSTED SPEED MPH (KM/H)
2. TYPE II BARRICADES OR DRUMS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES. TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS ARE REQUIRED FOR DELINEATING OBSTACLES, EXCAVATIONS, OR HAZARDS EXCEEDING 100 FT (30m) IN LENGTH AT NIGHT.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12' MIN. WIDTH TANGENT SECTION
16' MIN. WIDTH CURVE SECTION.

SHOULDER CLOSURE DETAILS

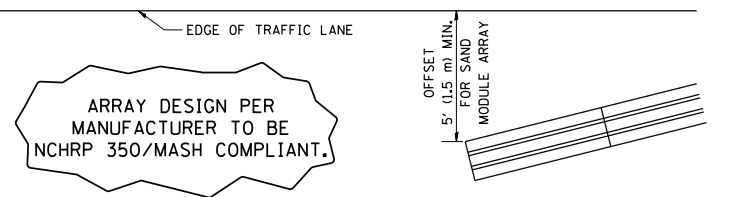


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH IN AN AREA CLOSER THAN 15' (4.5 m) TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.



DETAIL "A"
 IMPACT ATTENUATOR, TEMPORARY
 (SEE NOTE 5)

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - S.P.B. 01-07
pw:\IL084EBIDINTEG\illinois.gov\PIWIDT\Documents\IDOT Offices\District 1\Projects\Dist 1\CD\Drawings\17.dgn		CHECKED -	REVISED - S.P.B. 12-09
Default	PLOT SCALE = 50.0000' / in.	DATE - 11-96	REVISED - M.D. 06-13
	PLOT DATE = 11/27/2017		REVISED - M.D. 01-18

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY
 SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

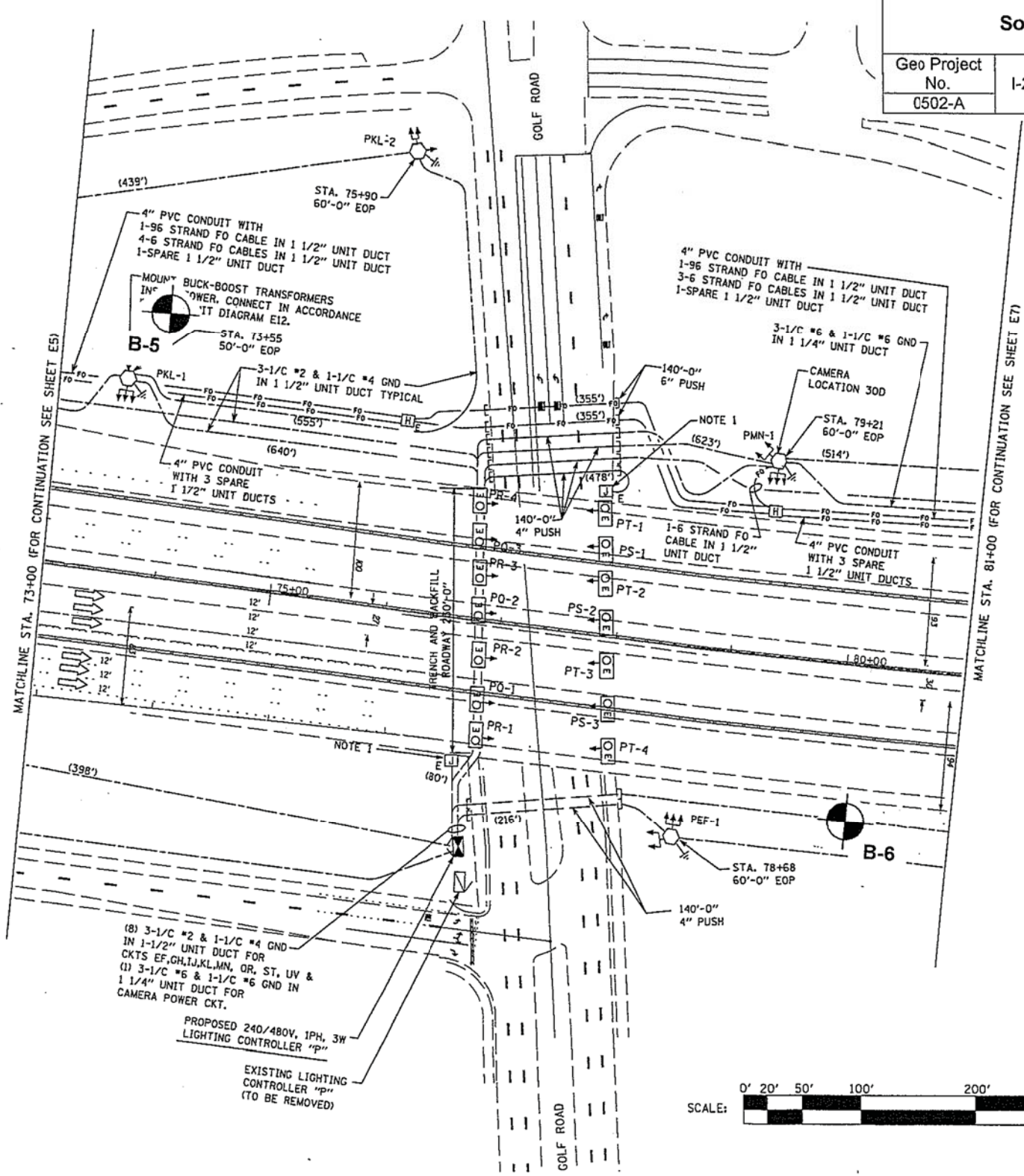
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-17		63	57
ILLINOIS FED. AID PROJECT			CONTRACT NO.	62H54

SD-13

USER:

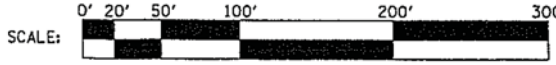
CONTRACT NO.			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
290		COOK	
STA.		TO STA.	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	

Soil Boring Location Diagram			
Geo Project No.	I-290/IL-53 Light pole Bases	Drawn by	Checked by
C502-A		RWC	ASP



NOTES:
 1. RE-CONNECT UNDERPASS LIGHTING CIRCUITS IN ACCORDANCE WITH CONTROLLER "P" CIRCUIT DIAGRAM SHEET E12 AND RE-LABEL ALL ASSOCIATED LUMINAIRE NUMBERING LABELS. SEE DETAIL #1 SHEET 14 FOR TRANSFORMER MOUNTING DETAILS.

REFERENCE ONLY



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LIGHTING PLAN
 ILLINOIS ROUTE 53
 I-53 AT ALGONQUIN RD.
 SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE: **DATE**
 DRAWN BY: _____
 CHECKED BY: _____

E6



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - MS	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

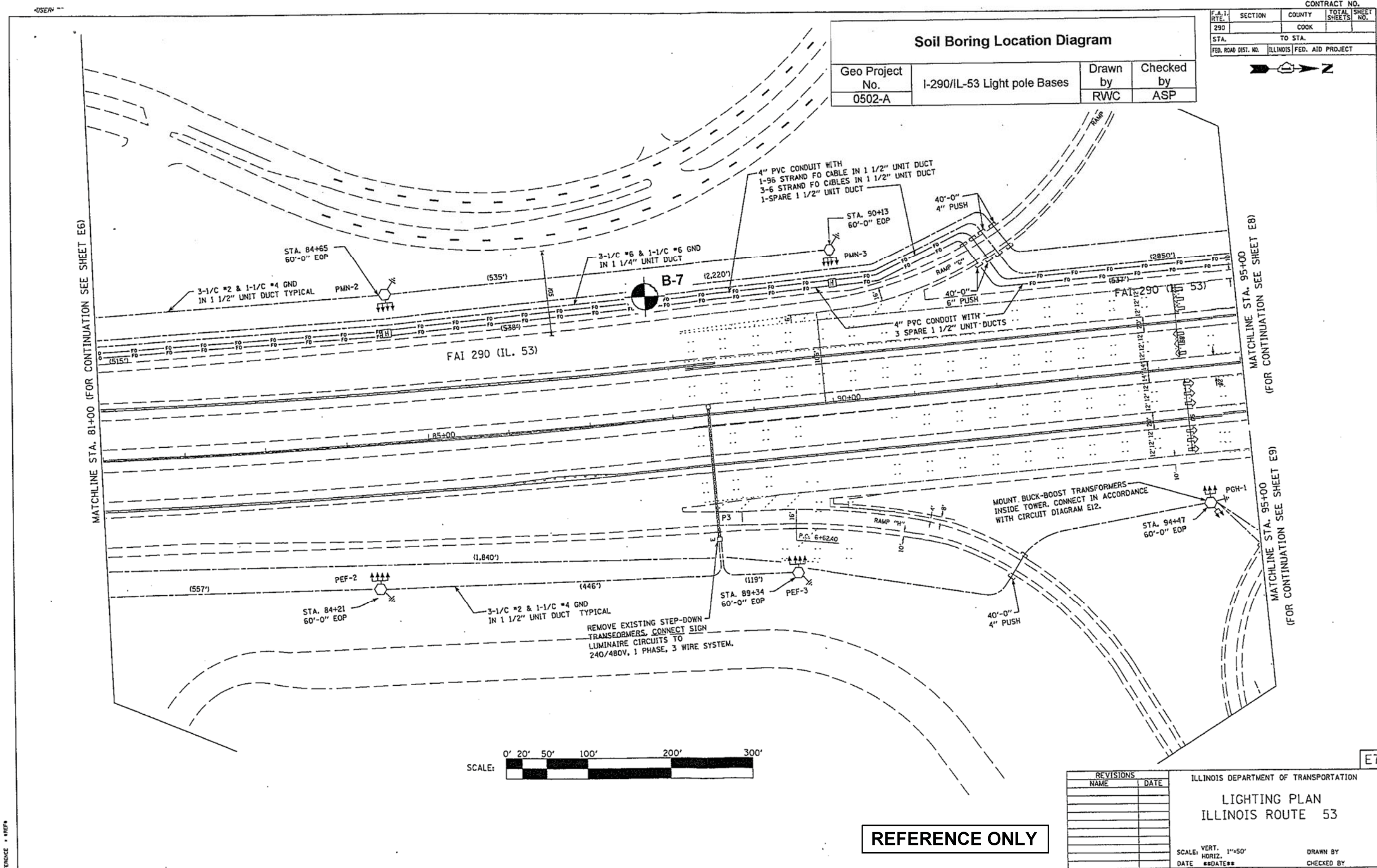
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOCATION
 1 OF 4

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	58
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

SBL-1



Soil Boring Location Diagram			
Geo Project No.	I-290/IL-53 Light pole Bases	Drawn by	Checked by
0502-A		RWC	ASP

CONTRACT NO.			
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEET NO.
290		COOK	
STA.		TO STA.	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			

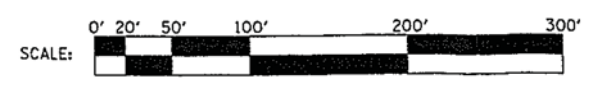


MATCHLINE STA. 81+00 (FOR CONTINUATION SEE SHEET E6)

MATCHLINE STA. 95+00 (FOR CONTINUATION SEE SHEET E8)

MATCHLINE STA. 95+00 (FOR CONTINUATION SEE SHEET E9)

E7



REFERENCE ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
LIGHTING PLAN
ILLINOIS ROUTE 53

SCALE: VERT. 1"=50'
 HORIZ. DATE **DATE**

DRAWN BY
 CHECKED BY



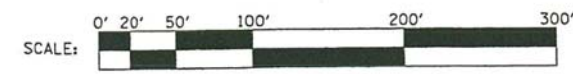
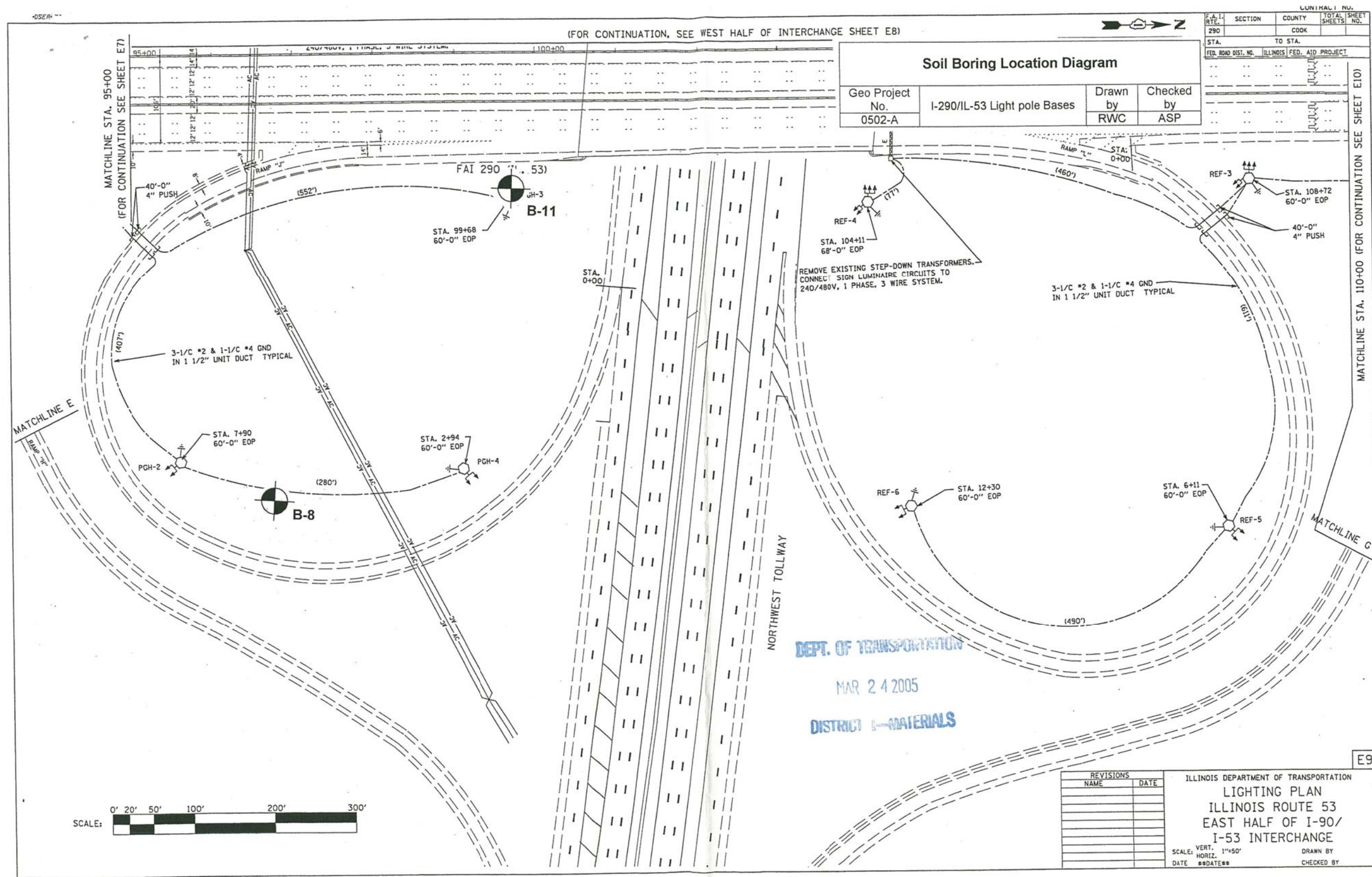
USER NAME : *USER*	DESIGNED - HM	REVISED -
PLOT SCALE : *SCALE*	DRAWN - MS	REVISED -
PLOT DATE : *DATE*	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOCATION	
2 OF 4	
SCALE: NONE	SHEET 1 OF 1 SHEETS
STA.	TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	59
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

SBL-2



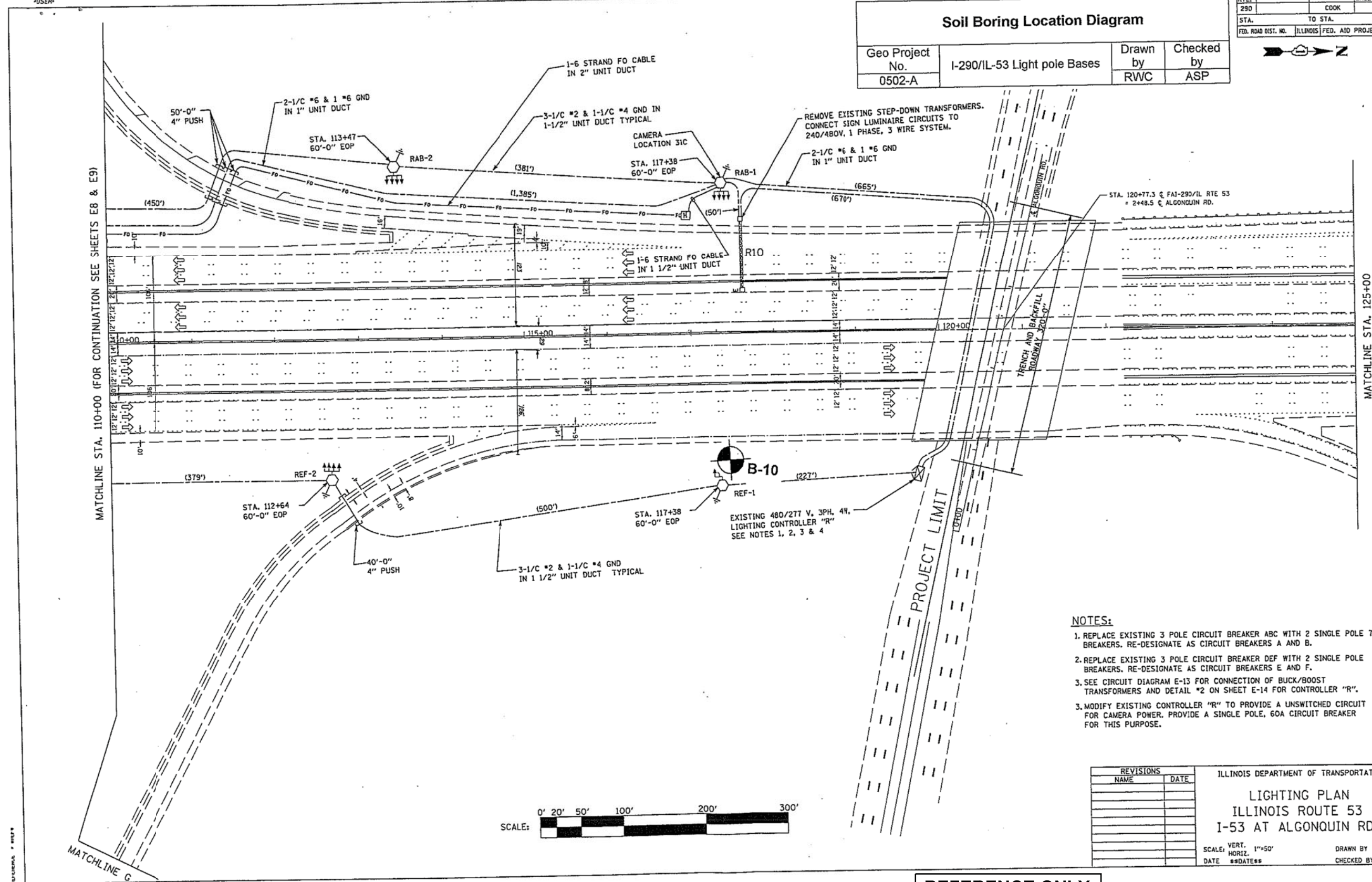
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	LIGHTING PLAN	
		ILLINOIS ROUTE 53	
		EAST HALF OF I-90/	
		I-53 INTERCHANGE	
		SCALE: VERT. 1"=50'	DRAWN BY
		SCALE: HORIZ. 1"=50'	CHECKED BY
		DATE	DATE

REFERENCE ONLY

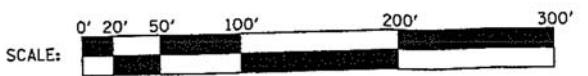
SBL-3

F.A.I. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
290			COOK	63	61
STA.		TO STA.			
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT			

Soil Boring Location Diagram			
Geo Project No.	I-290/IL-53 Light pole Bases	Drawn by	Checked by
0502-A		RWC	ASP



- NOTES:**
1. REPLACE EXISTING 3 POLE CIRCUIT BREAKER ABC WITH 2 SINGLE POLE 70A BREAKERS. RE-DESIGNATE AS CIRCUIT BREAKERS A AND B.
 2. REPLACE EXISTING 3 POLE CIRCUIT BREAKER DEF WITH 2 SINGLE POLE BREAKERS. RE-DESIGNATE AS CIRCUIT BREAKERS E AND F.
 3. SEE CIRCUIT DIAGRAM E-13 FOR CONNECTION OF BUCK/BOOST TRANSFORMERS AND DETAIL *2 ON SHEET E-14 FOR CONTROLLER "R".
 3. MODIFY EXISTING CONTROLLER "R" TO PROVIDE A UNSWITCHED CIRCUIT FOR CAMERA POWER. PROVIDE A SINGLE POLE, 60A CIRCUIT BREAKER FOR THIS PURPOSE.



REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE	LIGHTING PLAN	
		ILLINOIS ROUTE 53	
		I-53 AT ALGONQUIN RD.	
		SCALE: VERT. 1"=50'	DRAWN BY
		HORIZ. 1"=50'	CHECKED BY
		DATE **DATE**	

REFERENCE ONLY

E10



USER NAME = *USER*	DESIGNED - HM	REVISED -
PLOT SCALE = *SCALE*	DRAWN - MS	REVISED -
PLOT DATE = *DATE*	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOIL BORING LOCATION
4 OF 4

SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	61
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				

SBL-4

PAGE 1 of 1
DATE February 07, 2005
LOGGED BY RH
GSI JOB No. 0502-A

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

ROUTE FAI 290/IL-53 DESCRIPTION High-Mast Light Pole Foundations IL 53/FAI 290, Higgins to Algonquin
SECTION 0305-302K-L-3 LOCATION NW & SW CORNERS, SEC. 18 & 7, TWP. 41N, RNG. 11E, 3rd PM
COUNTY Cook DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME-55 Automatic

STRUCT. NO. n/a Station n/a
BORING NO. **B-6**
Northing 1961514.5
Easting 1067065.6
Ground Surface Elev. 736.5

DEPTH H (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)	Surface Water Elev. <u>n/a</u>		Stream Bed Elev. <u>n/a</u>		DEPTH H (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)
				First Encounter	Upon Completion	After _____ Hrs.					
SAND & GRAVEL (Fill) <u>735.5</u>											
	2							4			
	2							7			
	3	2.5B	18	CLAY-gray-stiff to hard (A-6)				10	4.9B	16	
CLAY-brown & gray-very stiff (A-6) Fill											
	4							2			
	5							5			
	6	3.5B	17					8	1.8B	19	
	3							3			
	8							5			
	10	2.8B	23					7	2.5B	18	
	4							3			
	10							6			
	8	4.0B	16					7	3.4B	19	
CLAY-dark brown spotted black-very stiff (A-6) Fill, Wet <u>725.5</u>											
	3										
	7										
	9	2.5B	27								
CLAY-brown & gray-very stiff (A-6) <u>723.5</u>											
	4							3			
	8							5			
	8	3.5B	17					7	3.1B	19	
CLAY-gray-stiff to hard (A-6) <u>718.5</u>											
	5										
	8										
	12	3.5B	15								

End of Boring @ -35.0'
Boring Grouted Upon Completion
Hollow Stem Augers
CME-55

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery

PAGE 1 of 1
DATE February 07, 2005
LOGGED BY RH
GSI JOB No. 0502-A

Geo Services, Inc.
Geotechnical, Environmental & Civil Engineering
805 Amherst Court, Suite 204
Naperville, Illinois 60565
(630) 355-2838

SOIL BORING LOG

ROUTE FAI 290/IL-53 DESCRIPTION High-Mast Light Pole Foundations IL 53/FAI 290, Higgins to Algonquin
SECTION 0305-302K-L-3 LOCATION NW & SW CORNERS, SEC. 18 & 7, TWP. 41N, RNG. 11E, 3rd PM
COUNTY Cook DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME Automatic

STRUCT. NO. n/a Station n/a
BORING NO. **B-7**
Northing 1962273.9
Easting 1066864.8
Ground Surface Elev. 738.1

DEPTH H (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)	Surface Water Elev. <u>n/a</u>		Stream Bed Elev. <u>n/a</u>		DEPTH H (ft)	BLOW S (/6")	UCS Qu (tsf)	MOIST T (%)
				First Encounter	Upon Completion	After _____ Hrs.					
SAND & GRAVEL (Fill) <u>737.1</u>											
	3							3			
	5							5			
	7	4.4B	16	CLAY-brown & gray-stiff (A-6) <u>715.1</u>				7	1.5P	19	
CLAY-brown & gray-very stiff to hard (A-6) Fill											
	3							1			
	7							4			
	7	3.0B	22					7	1.8B	17	
	1							3			
	7							6			
	10	5.3B	14					8	3.4B	19	
CRUSHED CONCRETE & STONE-dense (Fill) <u>730.1</u>											
	8							3			
	27							4			
	13	NP	10					7	3.0B	21	
CLAY-brown & gray-very stiff to hard (A-6) <u>727.6</u>											
	5										
	7										
	10	2.8B	16								
	3							3			
	6							6			
	7	5.0P	17					10	4.25P	12	
CLAY-gray-stiff to hard (A-6) <u>703.1</u>											
	3										
	6										
	8	3.7B	17								
	4										
	8										
	10	2.8B	19								

End of Boring @ -35.0'
Boring Grouted Upon Completion
Hollow Stem Augers
CME-55

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
NR-No Recovery



SOIL BORING LOG

PAGE 1 of 1
 DATE February 07, 2005
 LOGGED BY RH
 GSI JOB No. 0502-A

ROUTE FAI 290/IL-53 DESCRIPTION High-Mast Light Pole Foundations IL 53/FAI 290, Higgins to Algonquin
 SECTION 0305-302K-L-3 LOCATION NW & SW CORNERS, SEC. 18 & 7, TWP. 41N, RNG. 11E, 3rd PM
 COUNTY Cook DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE CME-55 Automatic

STRUCT. NO. n/a
 Station n/a
 BORING NO. B-10
 Northing 1965212.6
 Easting 1067255.3
 Ground Surface Elev. 742.1

DEPTH (ft)	BLOW (blows/ft)	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOW (blows/ft)	UCS (tsf)	MOIST (%)
CRUSHED STONE-loose (Fill)								
3				CLAY-brown & gray-very stiff (A-6)	4			
6					7			
739.6	2	NP	12		10	3.5B	17	
CLAY-brown & gray-very stiff to hard (A-6) Fill								
				CLAY-gray-stiff to very stiff (A-6)	4			
					7			
		5.1B	21		10	3.5B	16	
				CLAY-dark brown spotted black-stiff to very stiff (A-6) Fill, Wet	3			
					6			
		4.4B	20		9	2.8B	16	
				CLAY-gray-very stiff (A-6)	3			
					5			
		6.2B	16		6	1.9B	16	
				CLAY-brown & gray-stiff to hard (A-6)	2			
					7			
		5.7B	20		10	3.1B	17	
				SANDY CLAY LOAM-gray-loose (A-4)	2			
					3			
		2.8B	24		3	NP	19	
				End of Boring @ -35.0' Boring Backfilled Upon Completion Hollow Stem Augers CME-55				
		6.6B	19					
				CLAY-brown & gray-very stiff (A-6)				
		2.8B	16					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
 NR-No Recovery



SOIL BORING LOG

PAGE 1 of 1
 DATE February 24, 2005
 LOGGED BY RH
 GSI JOB No. 0502-A

ROUTE FAI 290/IL-53 DESCRIPTION High-Mast Light Pole Foundations IL 53/FAI 290, Higgins to Algonquin
 SECTION 0305-302K-L-3 LOCATION NW & SW CORNERS, SEC. 18 & 7, TWP. 41N, RNG. 11E, 3rd PM
 COUNTY Cook DRILLING METHOD 3.25" Hollow Stem Auger HAMMER TYPE D-50 Automatic

STRUCT. NO. n/a
 Station n/a
 BORING NO. B-11
 Northing 1963412.2
 Easting 1067193.5
 Ground Surface Elev. 741.8

DEPTH (ft)	BLOW (blows/ft)	UCS (tsf)	MOIST (%)	DESCRIPTION	DEPTH (ft)	BLOW (blows/ft)	UCS (tsf)	MOIST (%)
TOPSOIL-dark brown & black (A-7) Fill								
3				CLAY-brown & gray-stiff to hard (A-6)	5			
4					7			
738.3	8	-	58		10	4.6B	17	
CLAY-brown & gray-stiff (A-6) Fill								
				CLAY-dark brown spotted black-stiff to very stiff (A-6) Fill, Wet	3			
					5			
		1.6B	19		11	3.9B	18	
				CLAY-gray-very stiff (A-6)	4			
					8			
		3.2B	22		13	3.9B	16	
				CLAY-brown & gray-stiff to hard (A-6)	3			
					4			
		1.4B	25		9	2.8B	15	
				CLAY-brown & gray-stiff to hard (A-6)	1			
					2			
		1.9B	18		4			
				End of Boring @ -35.0' Boring Backfilled Upon Completion Hollow Stem Augers D-50 ATV				
		3.7B	19					
				CLAY-brown & gray-very stiff (A-6)				
		3.9B	19					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) ST-Shelby Tube Sample VS-Vane Shear Test
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) The Unit Dry Weight (pcf) is noted in italics above moist (%)
 NR-No Recovery

SBL-6



USER NAME = #USER#	DESIGNED - HM	REVISED -
PLOT SCALE = #SCALE#	DRAWN - MS	REVISED -
PLOT DATE = #DATE#	CHECKED - HS	REVISED -
	DATE - 05-30-2019	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SOIL BORING LOGS
 2 OF 2

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2018-131-L	COOK	63	63
CONTRACT NO. 62H54				
ILLINOIS FED. AID PROJECT				