

08-03-2018 LETTING ITEM 029

INDEX OF SHEETS

SEE SHEET 2 FOR INDEX OF SHEETS

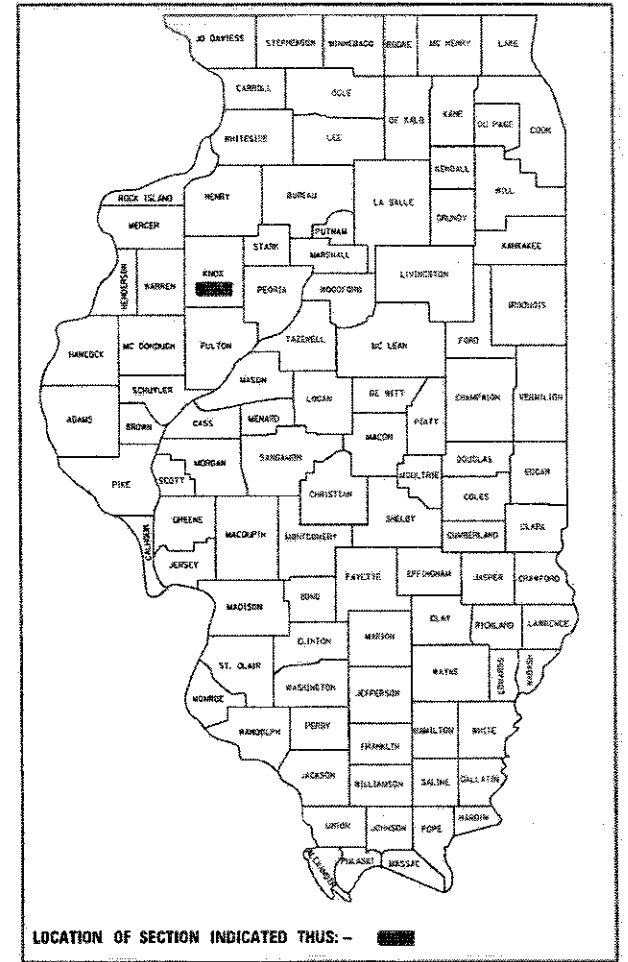
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
HIGHWAY PLANS

FAI 74 (I-74)
SECTION 48-29RA(L-1)
KNOX COUNTY

C-94-081-18

RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAI 74	48-29RA(L-1)	KNOX	17	1
ILLINOIS CONTRACT NO. 68E46				

D-94-059-18

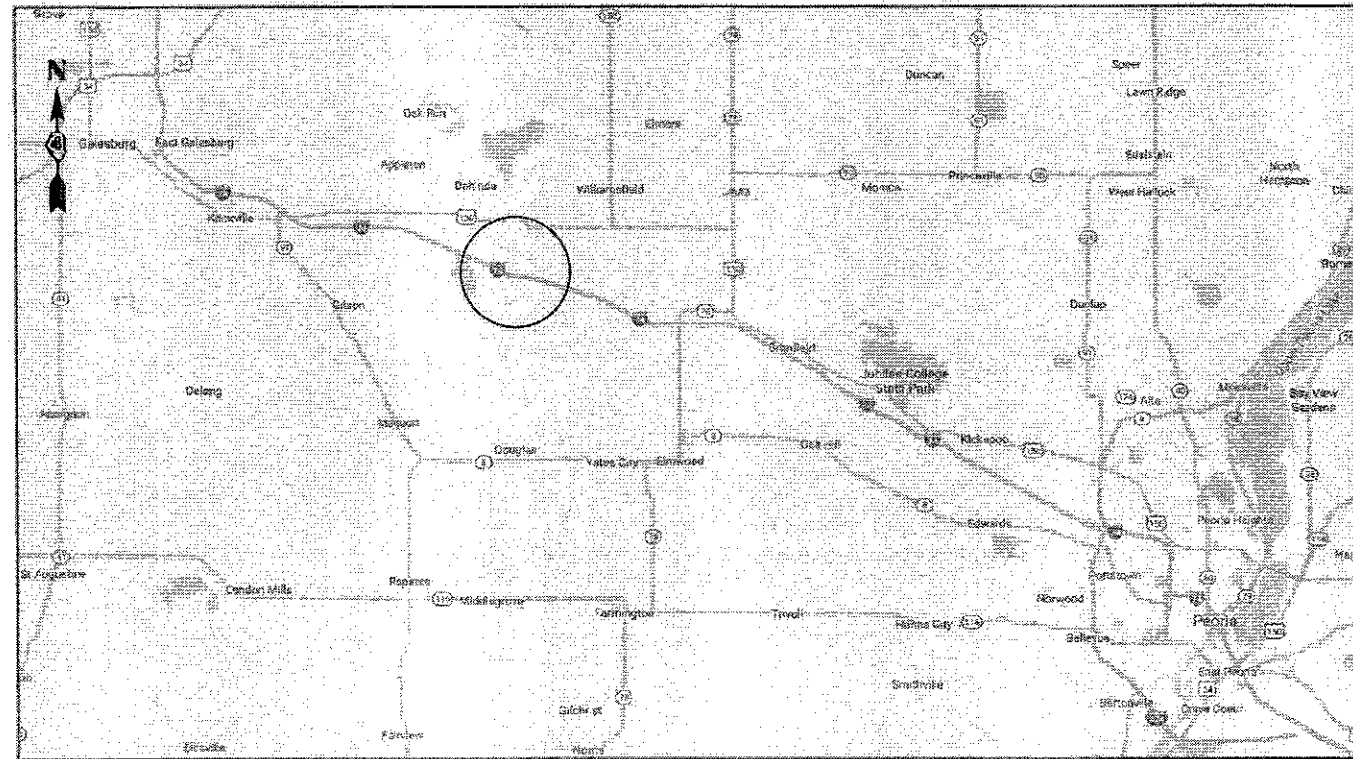


HIGHWAY STANDARDS

SEE SHEET 2 FOR A LIST OF APPLICABLE HIGHWAY STANDARDS

PROJECT DESCRIPTION

REPLACEMENT OF SIDEWALK LIGHTING AT I-74 SPOON RIVER REST AREAS IN KNOX COUNTY



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

PROJECT ENGINEER: ERIC HOWALD (309) 671-4481
PROJECT MANAGER: BEN TELLEFSON (309) 671-4477
CATALOG NO. 35636-00D
CONTRACT NO. 68E46

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED May 18, 2018
Kennel A. Barnett (KSD)
REGION THREE ENGINEER

June 29, 2018
cc E.A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT

June 29, 2018
Paul P. [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 3

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

COMMITMENTS

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT.

INDEX OF SHEETS	
PAGE	DESCRIPTION
1	COVER SHEET
2	COMMITMENTS, INDEX OF SHEETS, HIGHWAY STANDARDS, AND CONSTRUCTION NOTES
3 - 4	SUMMARY OF QUANTITIES
5	REMOVAL OF EXISTING LIGHTING SYSTEM - I-74 EB SPOON RIVER REST AREA
6	REMOVAL OF EXISTING LIGHTING SYSTEM - I-74 WB SPOON RIVER REST AREA
7	PROPOSED LIGHTING - I-74 EB SPOON RIVER REST AREA
8	PROPOSED LIGHTING - I-74 WB SPOON RIVER REST AREA
9	MISCELLANEOUS ELECTRICAL WORK - I-74 EB REST AREA
10	MISCELLANEOUS ELECTRICAL WORK - I-74 WB REST AREA
11	LIGHTING CONTROLLER DETAIL
12	LIGHT POLE FOUNDATION DETAIL
13 - 17	EXISTING LIGHTING PLANS (FOR INFORMATION ONLY)

HIGHWAY STANDARDS	
STANDARD	APPLICATION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5 M (15') AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 4.5 M (15') TO 600 MM (24') FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 4.5 M (15') TO 600 MM (24") FROM PAVEMENT EDGE
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 4.5 (15') AWAY
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-07	TRAFFIC CONTROL DEVICES

SUMMARY OF QUANTITIES

KNOX COUNTY

CONST. TYPE
CODE 0021
100% STATE
OVERHEAD LIGHTING
RURAL

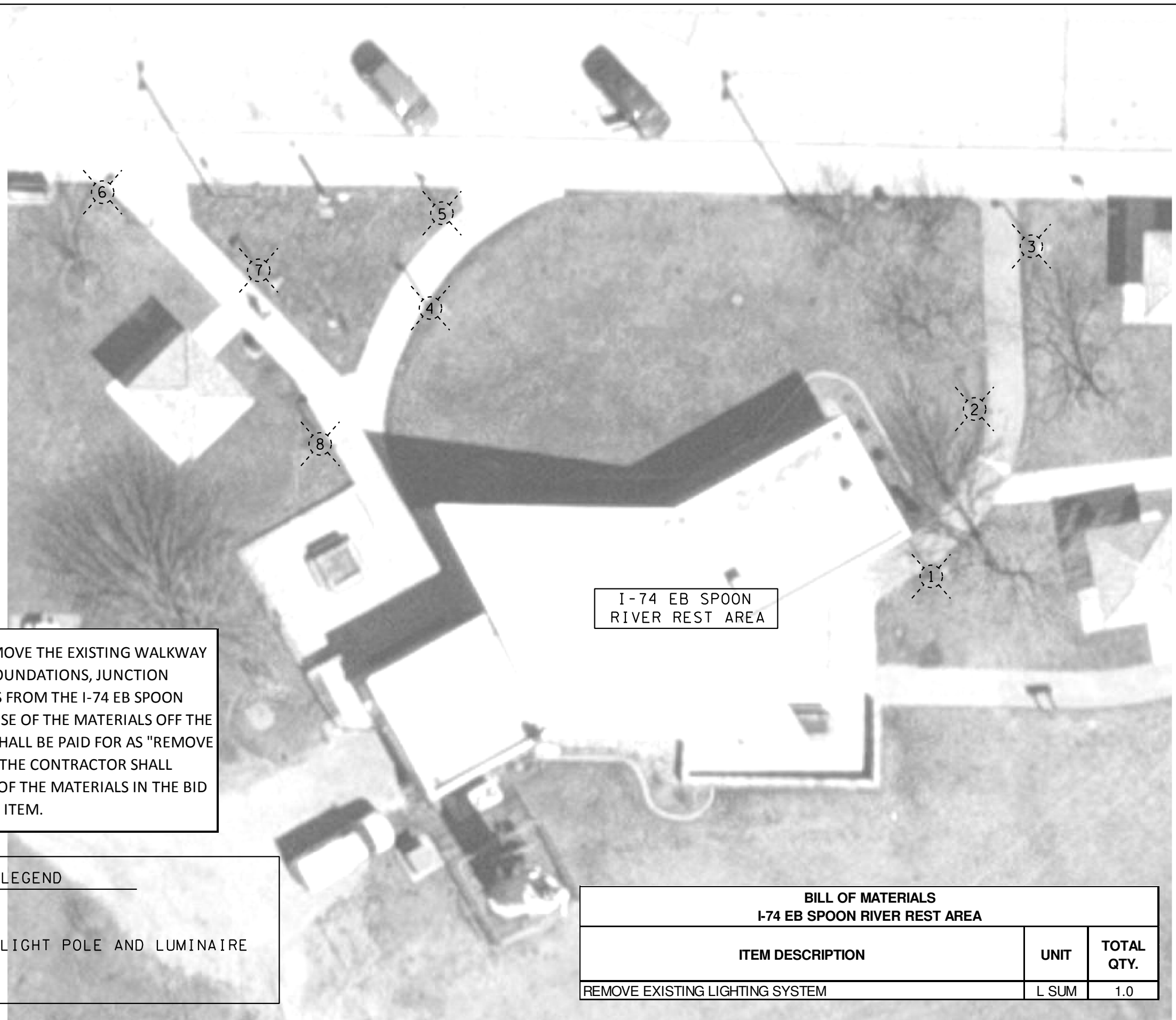
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67100100	MOBILIZATION	LSUM	1.0	1.0
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1.0	1.0
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	63.0	63.0
81603010	UNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	653.0	653.0
X0325541	REMOVE EXISTING LIGHTING SYSTEM	L SUM	1.0	1.0
X0327739	MISCELLANEOUS ELECTRICAL WORK	L SUM	1.0	1.0
X1400212	LUMINAIRE, LED, HORIZONTAL MOUNT, VERY LOW WATTAGE	EACH	11.0	11.0
X8250505	LIGHTING CONTROLLER, SPECIAL	EACH	2.0	2.0
X8300001	LIGHT POLE, SPECIAL	EACH	11.0	11.0
X8360120	LIGHT POLE FOUNDATION, SPECIAL	EACH	11.0	11.0

10

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY.	I-74 EB @ SPOON RIVER REST AREA	I-74 WB @ SPOON RIVER REST AREA
MOBILIZATION	LSUM	1.0	0.50	0.50
TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1.0	0.50	0.50
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	63.0	28.0	35.0
UNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	653.0	275.0	378.0
REMOVE EXISTING LIGHTING SYSTEM	L SUM	1.0	0.5	0.5
MISCELLANEOUS ELECTRICAL WORK	L SUM	1.0	0.5	0.5
LUMINAIRE, LED, HORIZONTAL MOUNT, VERY LOW WATTAGE	EACH	11.0	5.0	6.0
LIGHTING CONTROLLER, SPECIAL	EACH	2.0	1.0	1.0
LIGHT POLE, SPECIAL	EACH	11.0	5.0	6.0
LIGHT POLE FOUNDATION, SPECIAL	EACH	11.0	5.0	6.0

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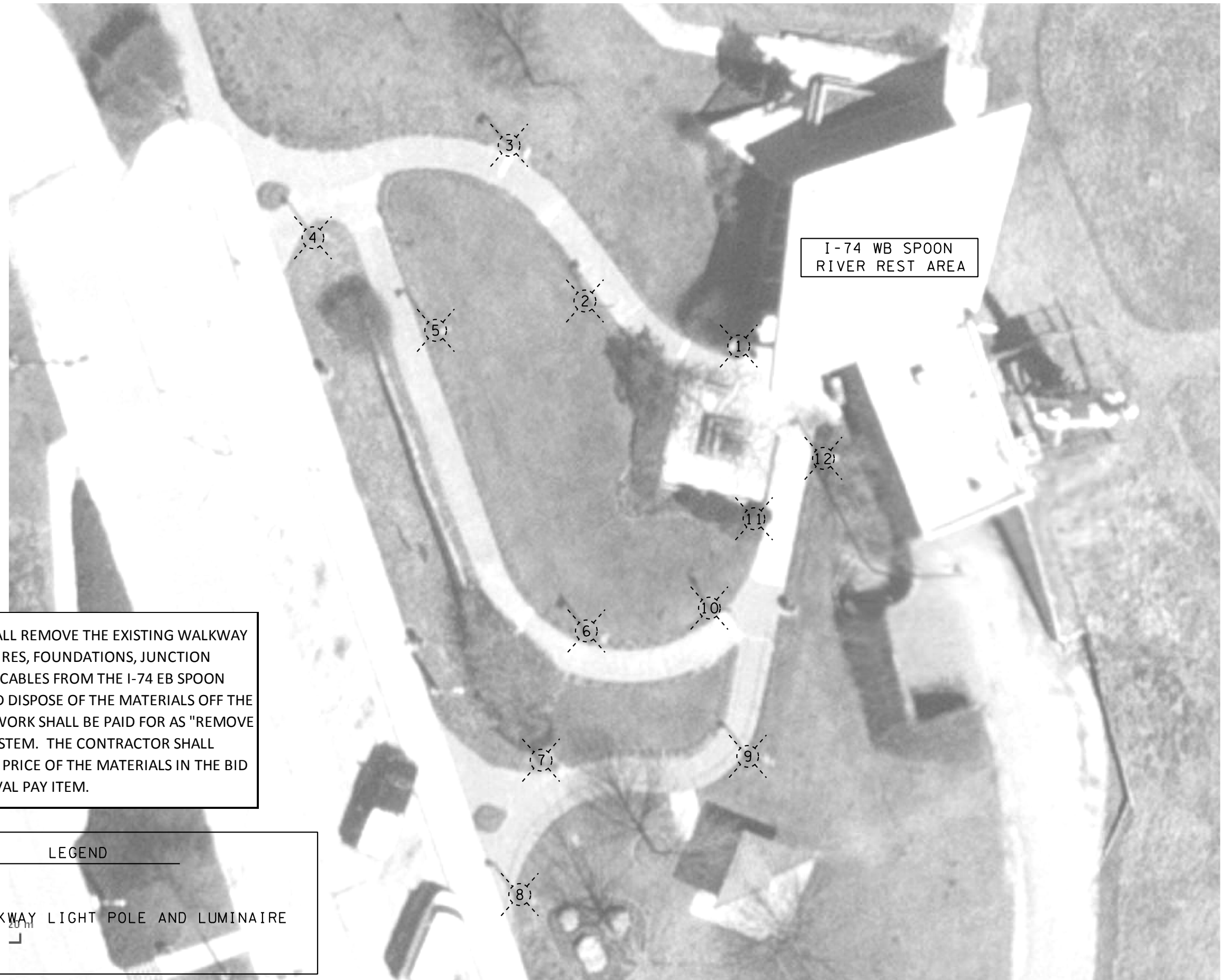
THE CONTRACTOR SHALL REMOVE THE EXISTING WALKWAY LIGHT POLES, LUMINAIRES, FOUNDATIONS, JUNCTION BOXES, AND ELECTRIC CABLES FROM THE I-74 EB SPOON RIVER REST AREAS AND DISPOSE OF THE MATERIALS OFF THE RIGHT OF WAY. THIS WORK SHALL BE PAID FOR AS "REMOVE EXISTING LIGHTING SYSTEM. THE CONTRACTOR SHALL REFLECT THE SALVAGE PRICE OF THE MATERIALS IN THE BID PRICE FOR THE REMOVAL PAY ITEM.

LEGEND

EX. WALKWAY LIGHT POLE AND LUMINAIRE

BILL OF MATERIALS I-74 EB SPOON RIVER REST AREA		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
REMOVE EXISTING LIGHTING SYSTEM	L SUM	1.0

NOT TO SCALE



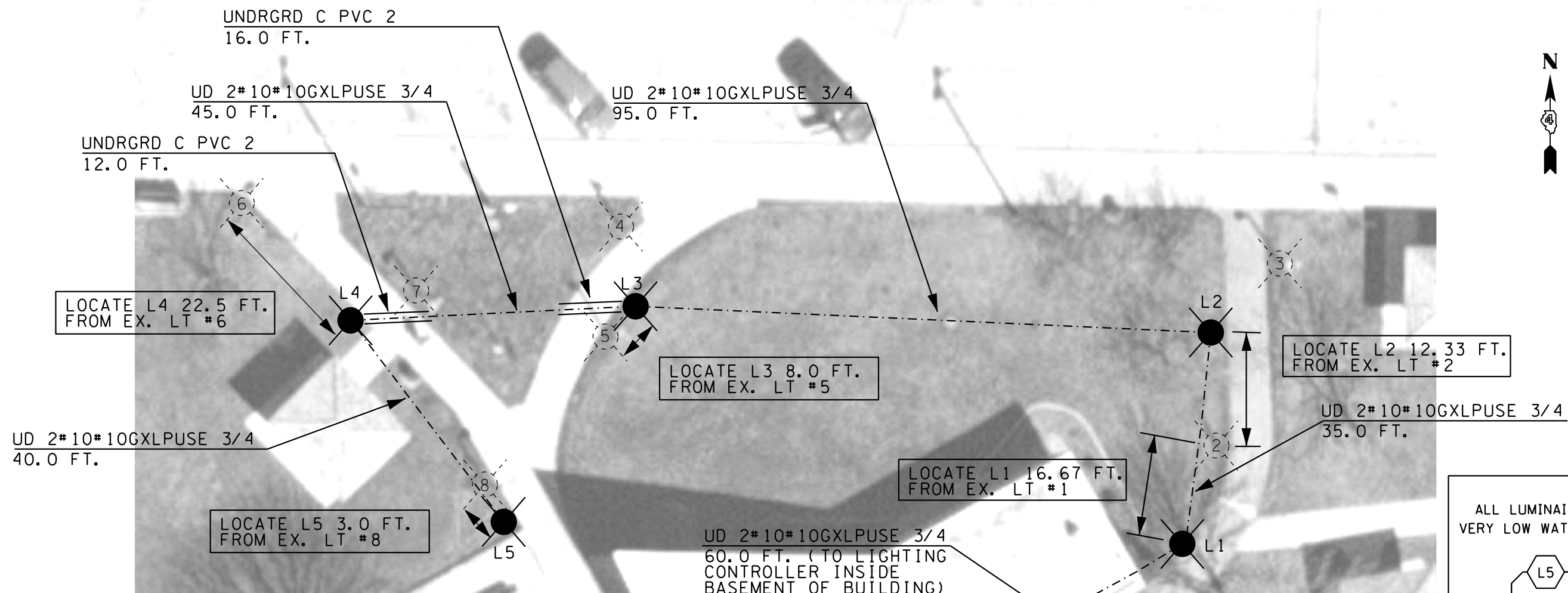
THE CONTRACTOR SHALL REMOVE THE EXISTING WALKWAY LIGHT POLES, LUMINAIRES, FOUNDATIONS, JUNCTION BOXES, AND ELECTRIC CABLES FROM THE I-74 EB SPOON RIVER REST AREAS AND DISPOSE OF THE MATERIALS OFF THE RIGHT OF WAY. THIS WORK SHALL BE PAID FOR AS "REMOVE EXISTING LIGHTING SYSTEM. THE CONTRACTOR SHALL REFLECT THE SALVAGE PRICE OF THE MATERIALS IN THE BID PRICE FOR THE REMOVAL PAY ITEM.

LEGEND

EX. WALKWAY LIGHT POLE AND LUMINAIRE

NOT TO SCALE

FILE NAME =	USER NAME = hanson,tj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	REMOVAL OF EXISTING LIGHTING I-74 WB SPOON RIVER AREA	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\common\GEN\Transfer - bureaus\68E46	- Final Plans\68E46 - Spoon River Rest Area	DRAWN (Final) 5-18-18.dgn	REVISED -			74	48-29RA(L-1)	KNOX	17	6
	PLOT SCALE = 1/4" = 1' / in.	CHECKED -	REVISED -						CONTRACT NO. 68E46	
	PLOT DATE = 5/18/2018	DATE -	REVISED -						ILLINOIS FED. AID PROJECT	



LOCATE L4 22.5 FT.
FROM EX. LT #6

LOCATE L3 8.0 FT.
FROM EX. LT #5

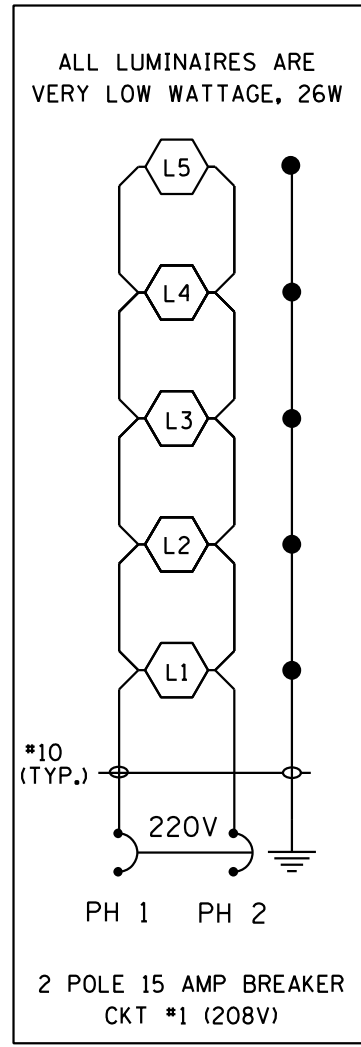
LOCATE L2 12.33 FT.
FROM EX. LT #2

LOCATE L1 16.67 FT.
FROM EX. LT #1

LOCATE L5 3.0 FT.
FROM EX. LT #8

2" PVC SCHEDULE 80 SHALL BE INSTALLED UNDER THE WALKWAYS.
LIGHT POLE LOCATIONS ARE SHOWN FOR INFORMATION. THE LOCATIONS OF PROPOSED LIGHT POLES SHALL BE REFERENCED ON THE DIMENSIONS FROM THE EXISTING LIGHT POLES.
PROPOSED LIGHT POLES SHALL BE INSTALLED 2.0 FT. FROM THE EDGE OF THE WALKWAYS.

I-74 EB SPOON RIVER REST AREA



ALL LUMINAIRES ARE VERY LOW WATTAGE, 26W

BILL OF MATERIALS I-74 EB SPOON RIVER REST AREA		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	28.0
UNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	275.0
LUMINAIRE, LED, HORIZONTAL MOUNT, VERY LOW WATTAGE	EACH	5.0
LIGHTING CONTROLLER, SPECIAL	EACH	1.0
LIGHT POLE, SPECIAL	EACH	5.0
LIGHT POLE FOUNDATION, SPECIAL	EACH	5.0

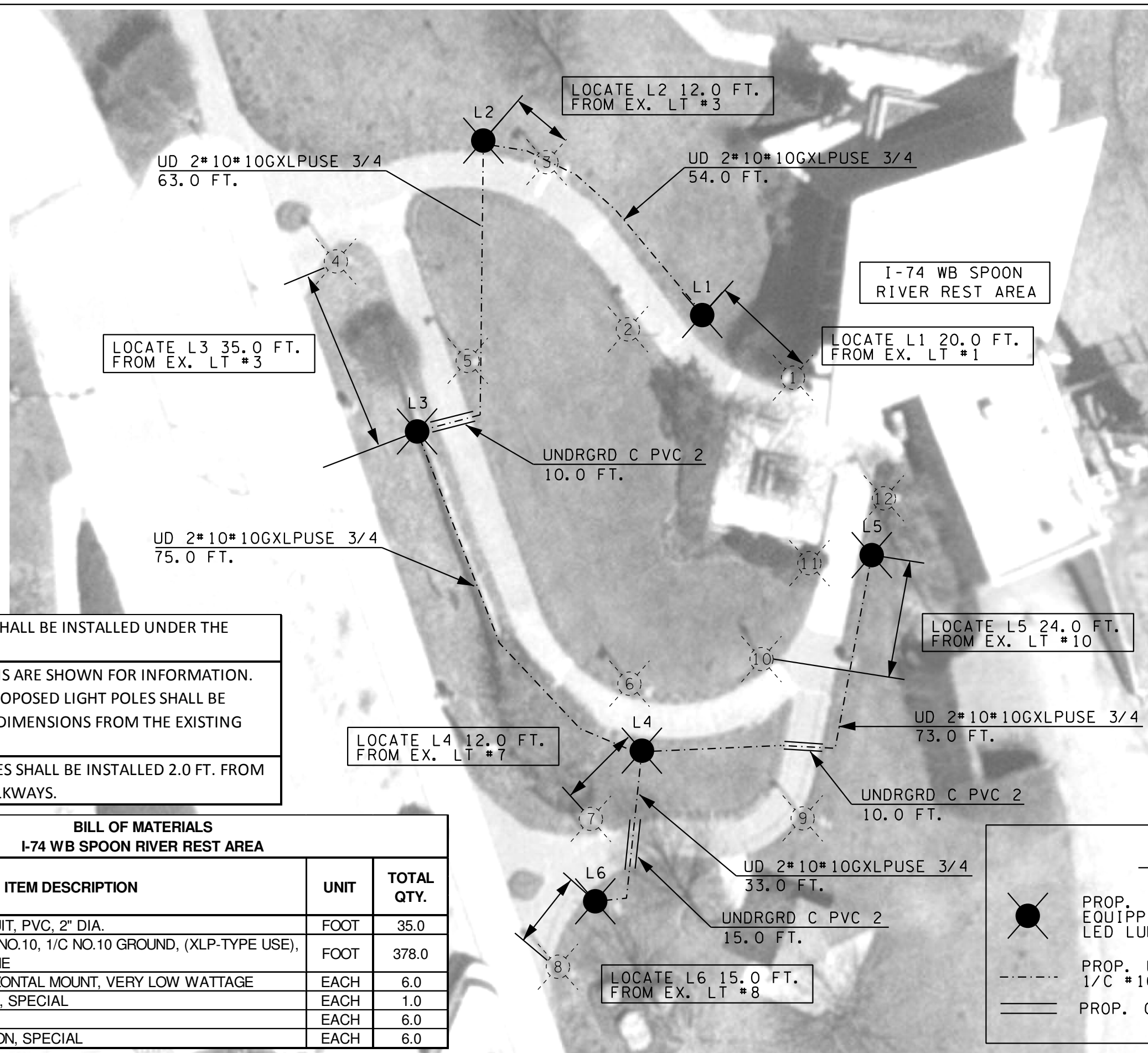
LEGEND

PROP. LIGHT POLE, STEEL, 14' M. H. EQUIPPED WITH VERY LOW WATTAGE LED LUMINAIRE, TYPE II DISTRIBUTION

PROP. UNIT DUCT, 600V, 2-1C NO. 10, 1/C #10 GND (XLP-USE), 3/4 DIA.

PROP. CONDUIT, 2" PVC, SCH 80

NOT TO SCALE



LOCATE L3 35.0 FT.
FROM EX. LT #3

LOCATE L2 12.0 FT.
FROM EX. LT #3

LOCATE L1 20.0 FT.
FROM EX. LT #1

LOCATE L5 24.0 FT.
FROM EX. LT #10

LOCATE L4 12.0 FT.
FROM EX. LT #7

LOCATE L6 15.0 FT.
FROM EX. LT #8

UD 2*10*10GXPUSE 3/4
63.0 FT.

UD 2*10*10GXPUSE 3/4
54.0 FT.

UD 2*10*10GXPUSE 3/4
75.0 FT.

UNDRGRD C PVC 2
10.0 FT.

UD 2*10*10GXPUSE 3/4
73.0 FT.

UNDRGRD C PVC 2
10.0 FT.

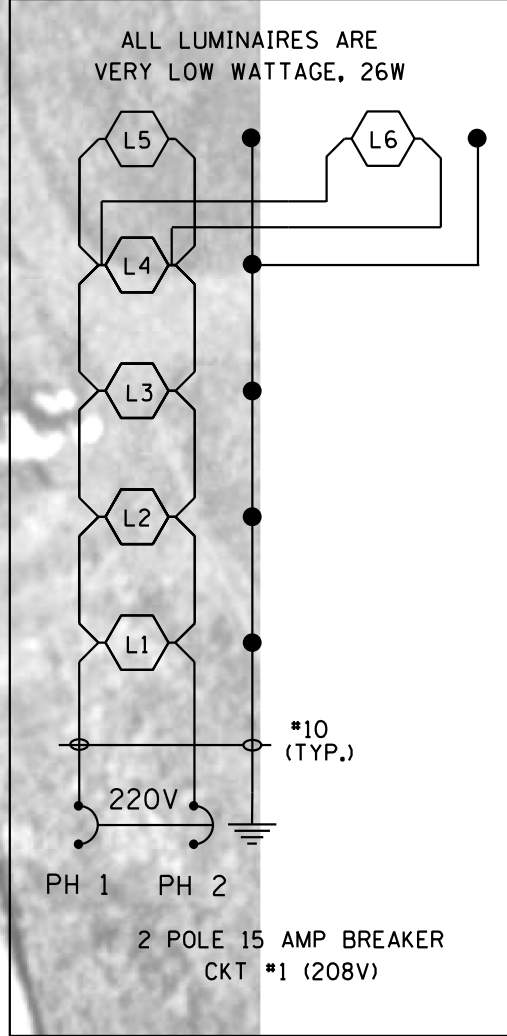
UD 2*10*10GXPUSE 3/4
33.0 FT.

UNDRGRD C PVC 2
15.0 FT.

I-74 WB SPOON
RIVER REST AREA

2" PVC SCHEDULE 80 SHALL BE INSTALLED UNDER THE WALKWAYS.
LIGHT POLE LOCATIONS ARE SHOWN FOR INFORMATION. THE LOCATIONS OF PROPOSED LIGHT POLES SHALL BE REFERENCED ON THE DIMENSIONS FROM THE EXISTING LIGHT POLES.
PROPOSED LIGHT POLES SHALL BE INSTALLED 2.0 FT. FROM THE EDGE OF THE WALKWAYS.

BILL OF MATERIALS I-74 WB SPOON RIVER REST AREA		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	35.0
UNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	378.0
LUMINAIRE, LED, HORIZONTAL MOUNT, VERY LOW WATTAGE	EACH	6.0
LIGHTING CONTROLLER, SPECIAL	EACH	1.0
LIGHT POLE, SPECIAL	EACH	6.0
LIGHT POLE FOUNDATION, SPECIAL	EACH	6.0



LEGEND

● PROP. LIGHT POLE, STEEL, 14' M.H. EQUIPPED WITH VERY LOW WATTAGE LED LUMINAIRE, TYPE II DISTRIBUTION

----- PROP. UNIT DUCT, 600V, 2-1C NO. 10, 1/C #10 GND (XLP-USE), 3/4 DIA.

==== PROP. CONDUIT, 2" PVC, SCH 80

FILE NAME =	USER NAME = hanson,tj	DESIGNED -	REVISED -
D:\common\GEN\Transfer - bureaus\68E46	- Final Plans\68E46 - Spoon River Rest Area	DRAWN (Final) 5-18-18.ldgn	REVISED -
	PLOT SCALE = 1/4" = 1' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/18/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED WALKWAY LIGHTING
I-74 WB SPOON RIVER AREA

SCALE: _____ STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	48-29RA(L-1)	KNOX	17	8
CONTRACT NO. 68E46				
ILLINOIS FED. AID PROJECT				

LIGHTING FIXTURE LEGEND

-  REPLACE BALLAST & INSTALL LED TUBES, INTERIOR (EX. FLUORESCENT TWO TUBE FIXTURE)
-  LED FIXTURE, INTERIOR (EX. FLUORESCENT FOUR TUBE FIXTURE)
-  LED CAN LIGHT, EXTERIOR (EX. 75W CFL CAN LIGHT)
-  LED CAN LIGHT, INTERIOR (EX. 75W CFL CAN LIGHT)
-  LED FLOOD LIGHT FIXTURE, INTERIOR (EX. FLUORESCENT FLOOD LIGHT FIXTURE)
-  LED WALL PACK FIXTURE, EXTERIOR (EX. FLUORESCENT WALL PACK 100W EQUIV. FIXTURE)



THE CONTRACTOR SHALL PERFORM THE FOLLOWING AT THE I-74 EB REST AREA:

1. REMOVE THE EXISTING FOUR TUBE CEILING MOUNTED LIGHT FIXTURES (QTY. 6) IN THE REST AREA LOBBY, DISPOSE OF THEM OFF THE JOB SITE, AND FURNISH AND INSTALL NEW CEILING MOUNTED LIGHT FIXTURES (COMMERCIAL GRADE) WITH REPLACABLE DIMMABLE LED LAMPS (40W FLUORESCENT LAMP EQUIVALENT) AND ELECTRONIC DRIVERS.
2. REMOVE EXISTING CFL LAMPS FROM ALL INTERIOR CAN LIGHT FIXTURES (QTY. 8) AND FURNISH AND INSTALL DIMMABLE LED LAMPS (75W EQUIVALENT).
3. REMOVE EXISTING CFL LAMPS FROM ALL EXTERIOR CAN LIGHT FIXTURES (QTY. 4) AND FURNISH AND INSTALL OUTDOOR RATED DIMMABLE LED LAMPS (75W EQUIVALENT).
4. RETROFIT EXISTING TWO TUBE LIGHT FIXTURES LOCATED (QTY. 21) INSIDE THE RESTROOM CEILINGS AND INSIDE THE DRINKING FOUNTAIN/VENDING AREA CEILING WITH DIMMABLE LED LAMPS. THE EXISTING FIXTURE BALLASTS SHALL BE REMOVED AND THE CONTRACTOR SHALL FURNISH AND INSTALL A NEW LED LAMP COMPATIBLE ELECTRONIC BALLASTS.
5. REMOVE EXISTING EXTERIOR WALL MOUNTED FIXTURES (QTY. 2) AND FURNISH AND INSTALL NEW FIXTURE WITH PHOTOCCELL CONTROL AND OUTDOOR RATED LED LAMP (100W EQUIVALENT.) THE FIXTURE SHALL BE COMMERCIAL GRADE, RATED FOR HEAVY DUTY USE, AND HAVE A BRONZE OR BROWN FINISH.
6. REMOVE EXISTING FLOOD LIGHT FIXTURES AND FURNISH AND INSTALL NEW FLOOD LIGHT FIXTURES WITH LED LAMPS.
7. FURNISH ONE COMPLETE SPARE FOUR LAMP FIXTURE WITH LAMPS, SIX SPARE LED LAMPS FOR CAN FIXTURES, SIX SPARE LED TUBES, SIX ELECTRONIC BALLASTS, AND ONE COMPLETE EXTERIOR FLOOD LIGHT FIXTURE WITH LAMP.
8. RECYCLE ALL FLUORESCENT LAMPS AT A CERTIFIED RECYCLING CENTER.
9. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING AND ADJUST QUANTITIES AS NEEDED TO COMPLETELY RETROFIT ALL INTERIOR LIGHTING TO LEDS. THERE WILL BE NO ADDITIONAL COMPENSATION.
10. THIS WORK WILL BE PAID FOR AS "MISCELLANEOUS ELECTRICAL WORK".



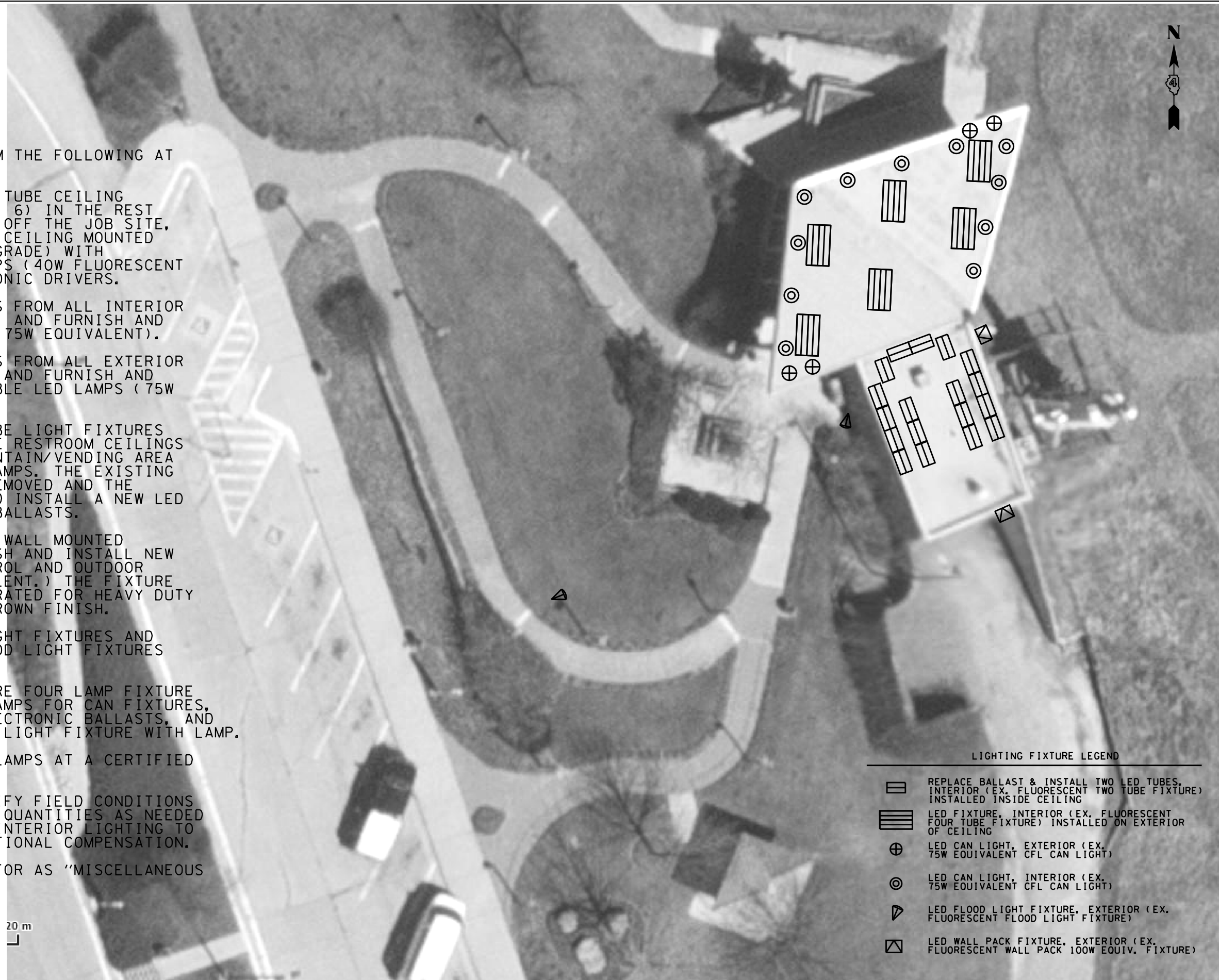
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		DRAWN -	REVISED -			74	48-29RA(L-1)	KNOX	17	9	
		CHECKED -	REVISED -			CONTRACT NO. 68E46					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
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





THE CONTRACTOR SHALL PERFORM THE FOLLOWING AT THE I-74 WB REST AREA:

1. REMOVE THE EXISTING FOUR TUBE CEILING MOUNTED LIGHT FIXTURES (QTY. 6) IN THE REST AREA LOBBY, DISPOSE OF THEM OFF THE JOB SITE, AND FURNISH AND INSTALL NEW CEILING MOUNTED LIGHT FIXTURES (COMMERCIAL GRADE) WITH REPLACABLE DIMMABLE LED LAMPS (40W FLUORESCENT LAMP EQUIVALENT) AND ELECTRONIC DRIVERS.
2. REMOVE EXISTING CFL LAMPS FROM ALL INTERIOR CAN LIGHT FIXTURES (QTY. 11) AND FURNISH AND INSTALL DIMMABLE LED LAMPS (75W EQUIVALENT).
3. REMOVE EXISTING CFL LAMPS FROM ALL EXTERIOR CAN LIGHT FIXTURES (QTY. 4) AND FURNISH AND INSTALL OUTDOOR RATED DIMMABLE LED LAMPS (75W EQUIVALENT).
4. RETROFIT EXISTING TWO TUBE LIGHT FIXTURES LOCATED (QTY. 18) INSIDE THE RESTROOM CEILINGS AND INSIDE THE DRINKING FOUNTAIN/VENDING AREA CEILING WITH DIMMABLE LED LAMPS. THE EXISTING FIXTURE BALLASTS SHALL BE REMOVED AND THE CONTRACTOR SHALL FURNISH AND INSTALL A NEW LED LAMP COMPATIBLE ELECTRONIC BALLASTS.
5. REMOVE EXISTING EXTERIOR WALL MOUNTED FIXTURES (QTY. 2) AND FURNISH AND INSTALL NEW FIXTURE WITH PHOTOCELL CONTROL AND OUTDOOR RATED LED LAMP (100W EQUIVALENT.) THE FIXTURE SHALL BE COMMERCIAL GRADE, RATED FOR HEAVY DUTY USE, AND HAVE A BRONZE OR BROWN FINISH.
6. REMOVE EXISTING FLOOD LIGHT FIXTURES AND FURNISH AND INSTALL NEW FLOOD LIGHT FIXTURES WITH LED LAMPS.
7. FURNISH ONE COMPLETE SPARE FOUR LAMP FIXTURE WITH LAMPS, SIX SPARE LED LAMPS FOR CAN FIXTURES, SIX SPARE LED TUBES, SIX ELECTRONIC BALLASTS, AND ONE COMPLETE EXTERIOR FLOOD LIGHT FIXTURE WITH LAMP.
8. RECYCLE ALL FLUORESCENT LAMPS AT A CERTIFIED RECYCLING CENTER.
9. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING AND ADJUST QUANTITIES AS NEEDED TO COMPLETELY RETROFIT ALL INTERIOR LIGHTING TO LEDS. THERE WILL BE NO ADDITIONAL COMPENSATION.
10. THIS WORK WILL BE PAID FOR AS "MISCELLANEOUS ELECTRICAL WORK".

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LIGHTING FIXTURE LEGEND

-  REPLACE BALLAST & INSTALL TWO LED TUBES, INTERIOR (EX. FLUORESCENT TWO TUBE FIXTURE) INSTALLED INSIDE CEILING
-  LED FIXTURE, INTERIOR (EX. FLUORESCENT FOUR TUBE FIXTURE) INSTALLED ON EXTERIOR OF CEILING
-  LED CAN LIGHT, EXTERIOR (EX. 75W EQUIVALENT CFL CAN LIGHT)
-  LED CAN LIGHT, INTERIOR (EX. 75W EQUIVALENT CFL CAN LIGHT)
-  LED FLOOD LIGHT FIXTURE, EXTERIOR (EX. FLUORESCENT FLOOD LIGHT FIXTURE)
-  LED WALL PACK FIXTURE, EXTERIOR (EX. FLUORESCENT WALL PACK 100W EQUIV. FIXTURE)

FILE NAME =	USER NAME = \$USER*	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MISCELLANEOUS ELECTRICAL WORK I-74 WB SPOON RIVER AREA	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
#FILE#		DRAWN -	REVISED -			74	48-29RA(L-1)	KNOX	17	10	
PLOT SCALE = \$SCALE*		CHECKED -	REVISED -			CONTRACT NO. 68E46					
PLOT DATE = \$DATE*		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					
					SCALE:	STA.	TO STA.				

GENERAL NOTES

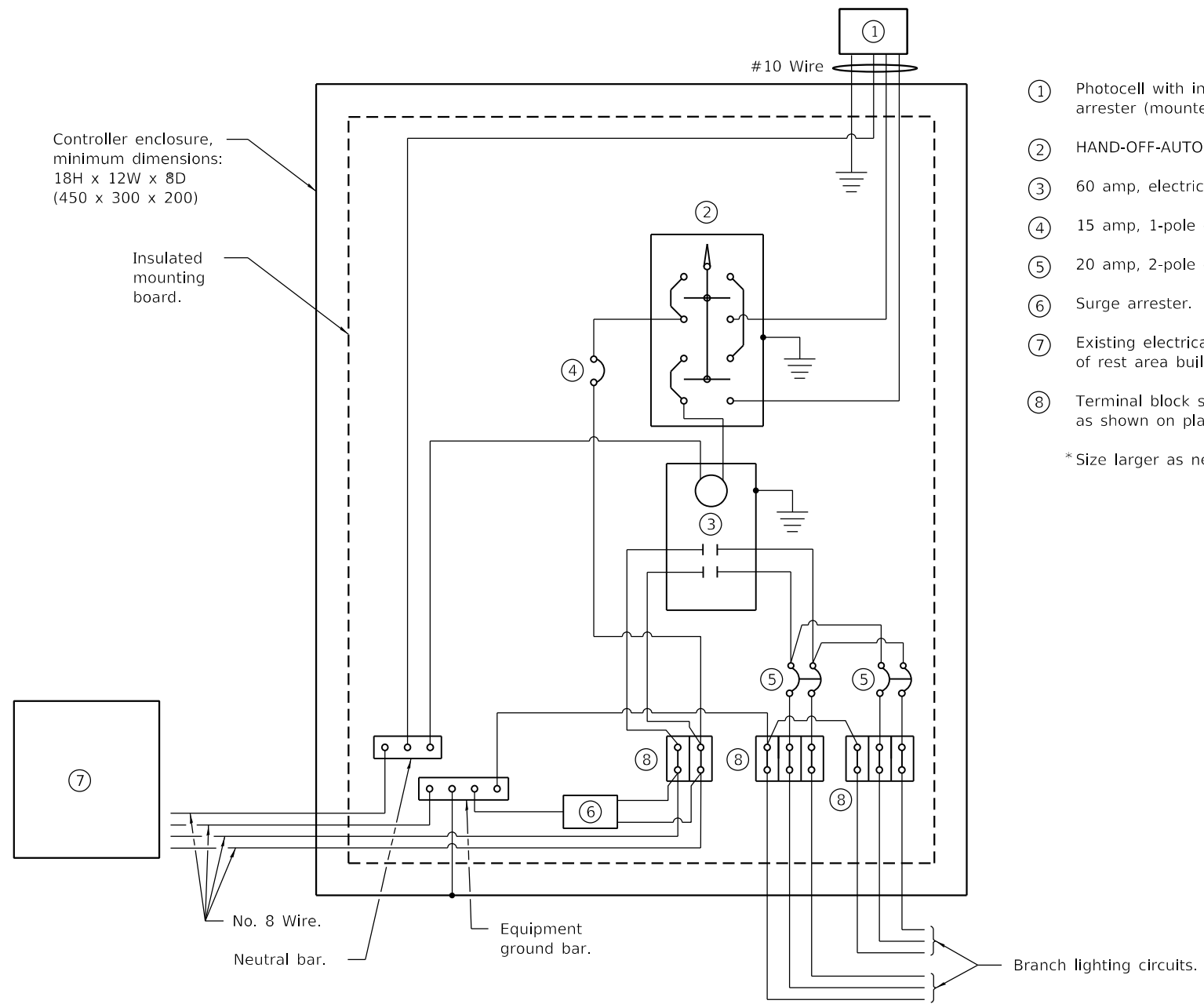
Provide 12x9x1 (305x225x25) watertight pouch mounted inside controller door with as-built plans and schematics.

Provide engraved nameplate on front of enclosure reading "LIGHTING".

Enclosure shall be mounted to wall in electrical room located in basement of rest area main building. Existing lighting controller shall be removed and proposed lighting controller shall be located in same location as existing lighting controller. The cost of removing and disposing of existing lighting controller shall be included in cost of new lighting controller.

Contractor shall remove existing photocell wires and install new #10 wires to photocell.

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

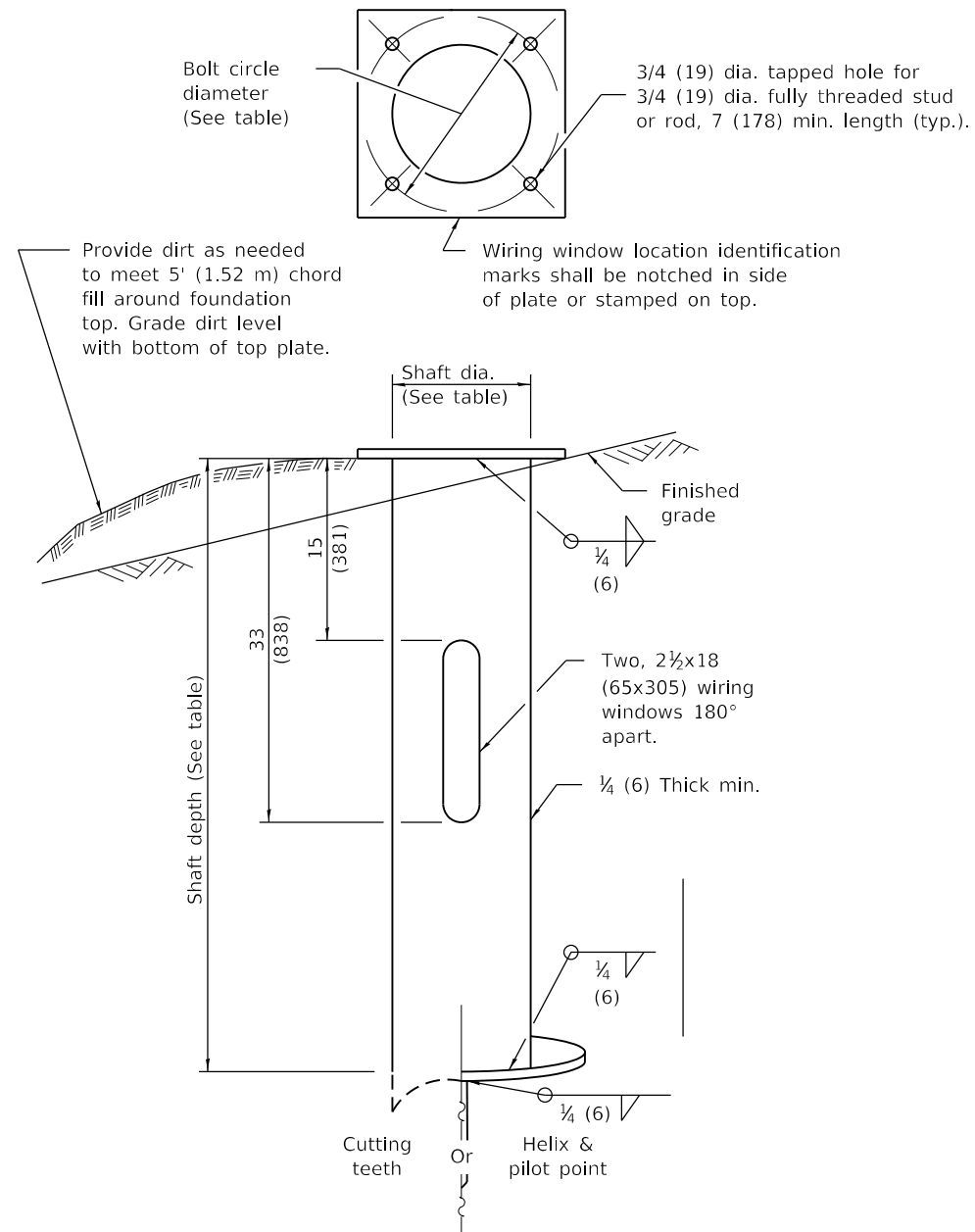


- ① Photocell with integral surge arrester (mounted to rest area building roof).
- ② HAND-OFF-AUTO selector switch.
- ③ 60 amp, electrically held contactor.
- ④ 15 amp, 1-pole circuit breaker.
- ⑤ 20 amp, 2-pole circuit breaker.
- ⑥ Surge arrester.
- ⑦ Existing electrical panel located in basement of rest area building.
- ⑧ Terminal block sized for conductors as shown on plans.

*Size larger as needed.

CONTROL SCHEMATIC

FILE NAME =	USER NAME = hanson,tj	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOTAL SHEETS	SHEET NO.	LIGHTING CONTROLLER DETAIL	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
D:\common\GEN\Transfer - bureaus\68E46	- Final Plans\68E46 - Spoon River Rest Area	DRAWN (Final) 5-18-18,dgn	REVISD -		17	20		74	48-29RA(L-1)	KNOX	17	11
	PLOT SCALE = 1/4" = 1' / in.	CHECKED -	REVISD -							CONTRACT NO. 68E46		
	PLOT DATE = 5/18/2018	DATE -	REVISD -							ILLINOIS FED. AID PROJECT		



METAL FOUNDATION

GENERAL NOTES

All foundations are designed to be located on slopes not exceeding 2:1 where soils have an unconfined compressive strength of at least 1.0 TSF. The Contractor shall verify the soil strength by monitoring installation resistance of metal foundations and notify the Engineer if other conditions are encountered.

Transformer bases shall not be used on metal foundations.

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

METAL FOUNDATION				
LIGHT POLE MOUNTING HEIGHT	BOLT CIRCLE DIAMETER	SHAFT DIAMETER	SHAFT DEPTH	TOP PLATE (min)
14' (4.27 m)	8 1/2 (215)	6 5/8 (170)	6' (1.83 m)	8.5 x 8.5 x 1 (215 x 215 x 1)

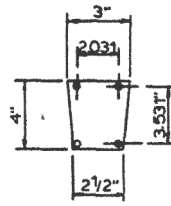
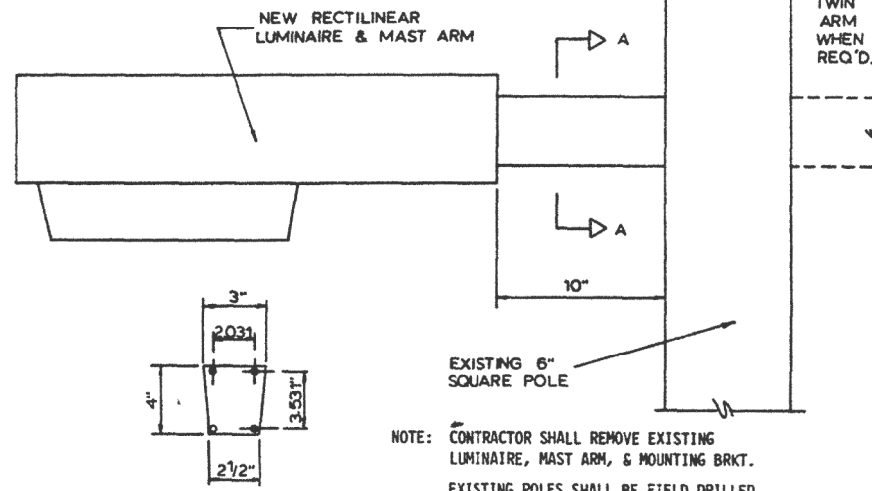
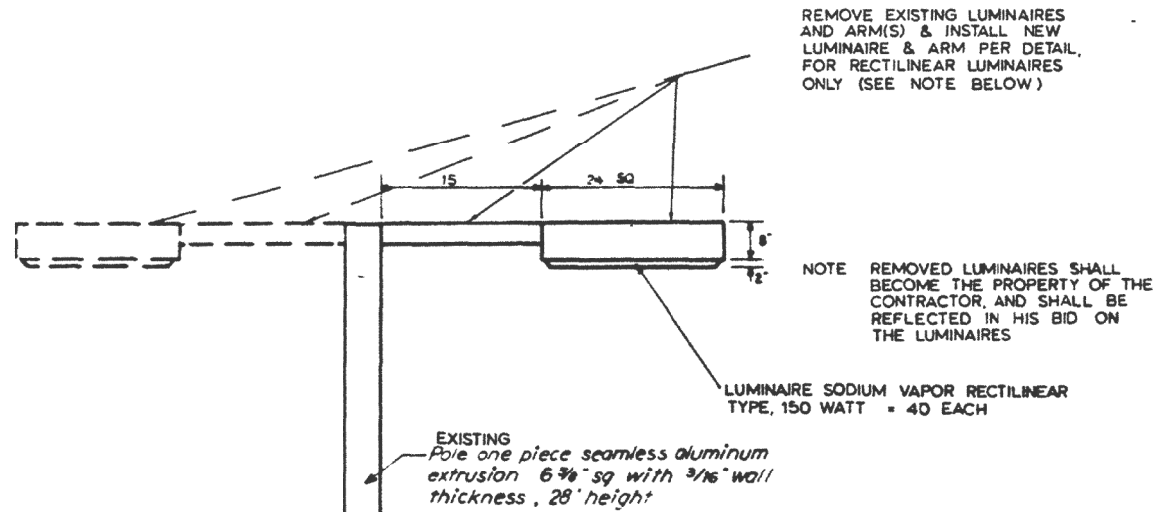
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	PLOT SCALE = 1/4" = 1' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/18/2018	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

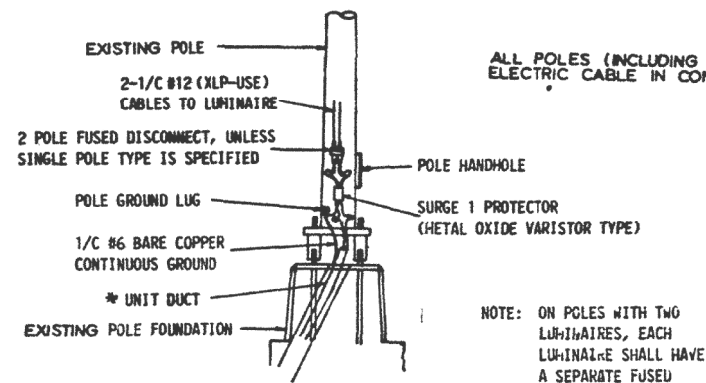
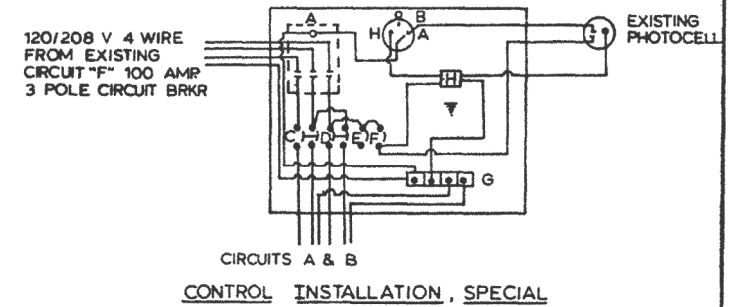
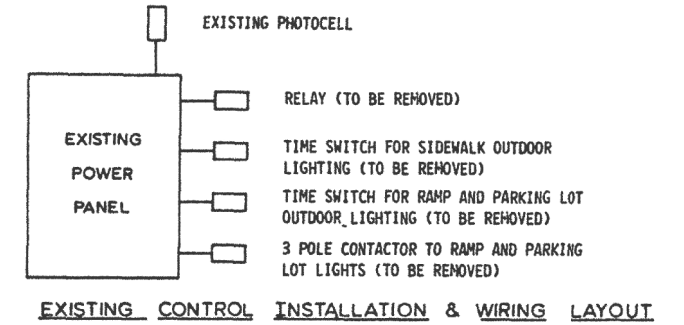
LIGHT POLE FOUNDATION DETAIL

SCALE: _____ STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	48-29RA(L-1)	KNOX	17	12
CONTRACT NO. 68E46				
ILLINOIS FED. AID PROJECT				



SECTION A-A

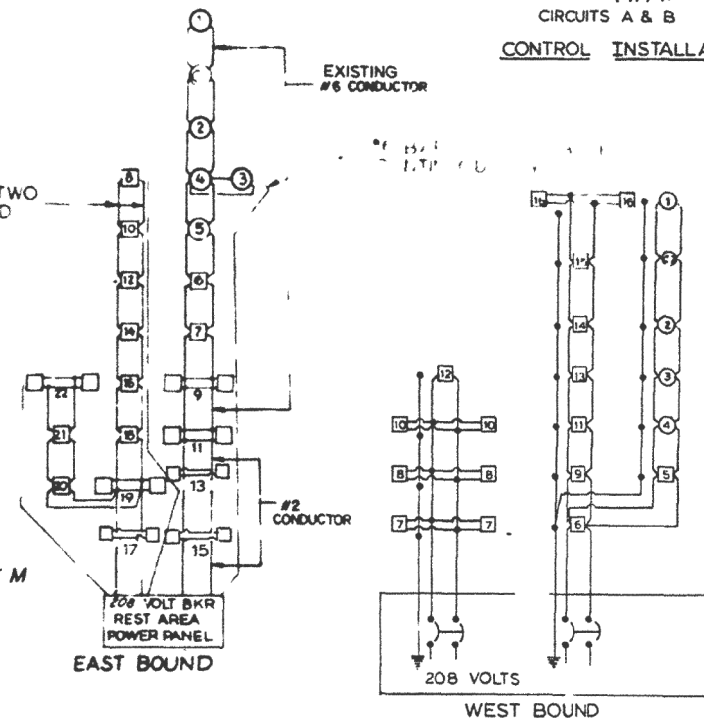


POLE BASE MOUNTING & WIRING
 * NEW UNIT DUCT SHALL BE INSTALLED IN BASES AT *5, *6, *7, *9 (WESTBOUND)

ALL POLES (INCLUDING POLES @ EXIT RAMPS) ELECTRIC CABLE IN CONDUIT, 600V(XLP-USE) 1/2" #12 = 3476 LIN. FT

- Note
- EXISTING UNLESS OTHERWISE NOTED
 - * 6 Bare Direct Buried Continuous Ground and 1" Unit Duct with two # 6, 600 Volt Insulated Cables.
 - Galvanized Steel Conduit in Trench & Conduit Pushed
 - Parking Area Light Unit, 28 Ft M H with 250 Watt Single Arm
 - Parking Area Light Unit, 28 Ft M H with 250 Watt Double Arm
 - 400 Watt M V Lighting Unit with Pattern, and Level Indicator, Type II M Bracket Arm shall be orientated as shown Pole 50' Mounting Height

EXISTING 1" UNIT DUCT WITH TWO #6, 600-V INSULATED CABLES

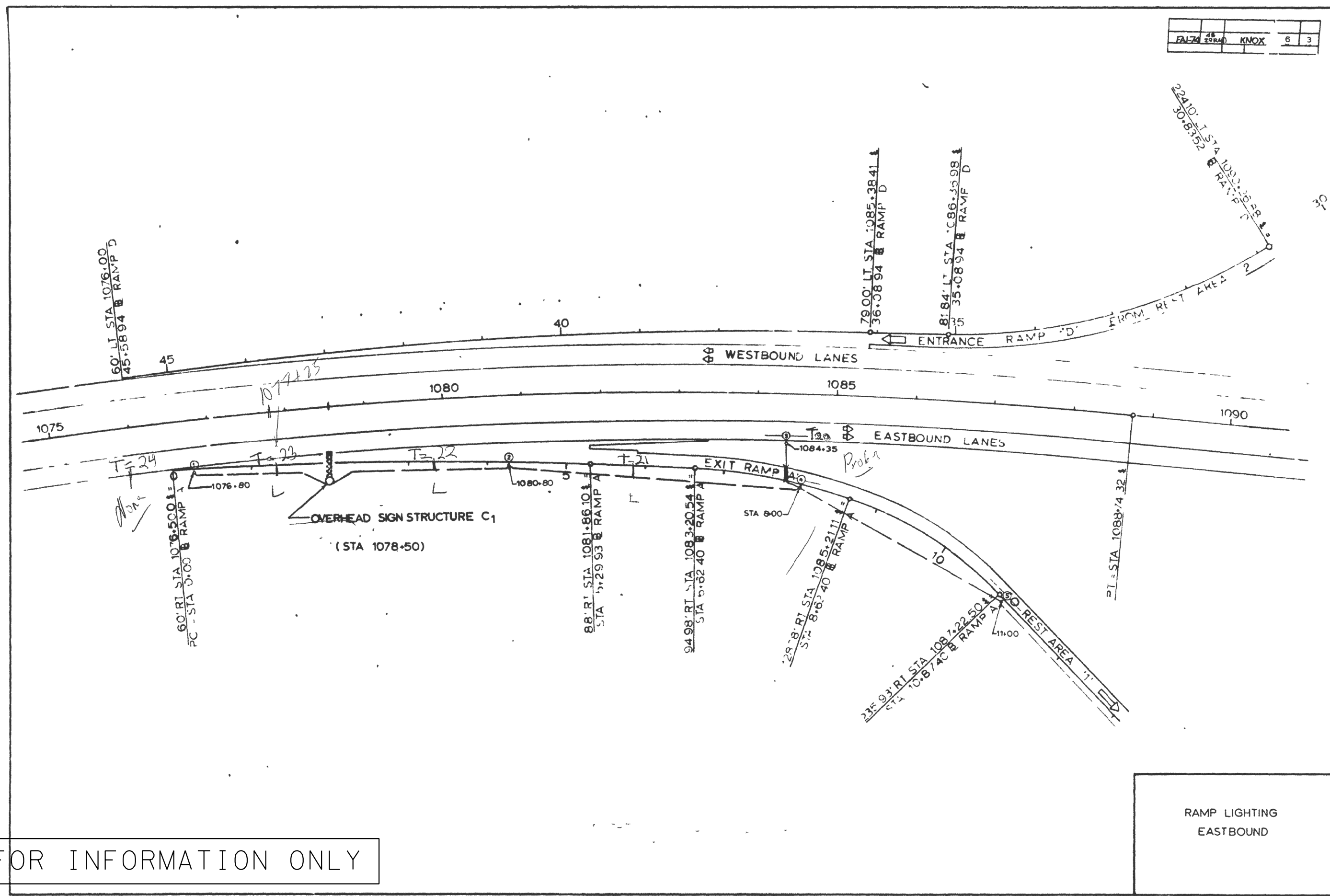


REST AREA LIGHTING
 F.A.I. 74 SECTION 48-29 RA
 KNOX COUNTY

FOR INFORMATION ONLY

FILE NAME =	USER NAME = hanson,tj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING LIGHTING PLANS I-74 SPOON RIVER REST AREAS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\common\GEN\Transfer - bureaus\68E46	- Final Plans\68E46 - Spoon River Rest Area	DRAWN (Final) 5-18-18,ldgn	REVISED -			74	48-29RA(L-1)	KNOX	17	13	
	PLOT SCALE = 1/4" = 1' - 0"	CHECKED -	REVISED -			CONTRACT NO. 68E46					
	PLOT DATE = 5/18/2018	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

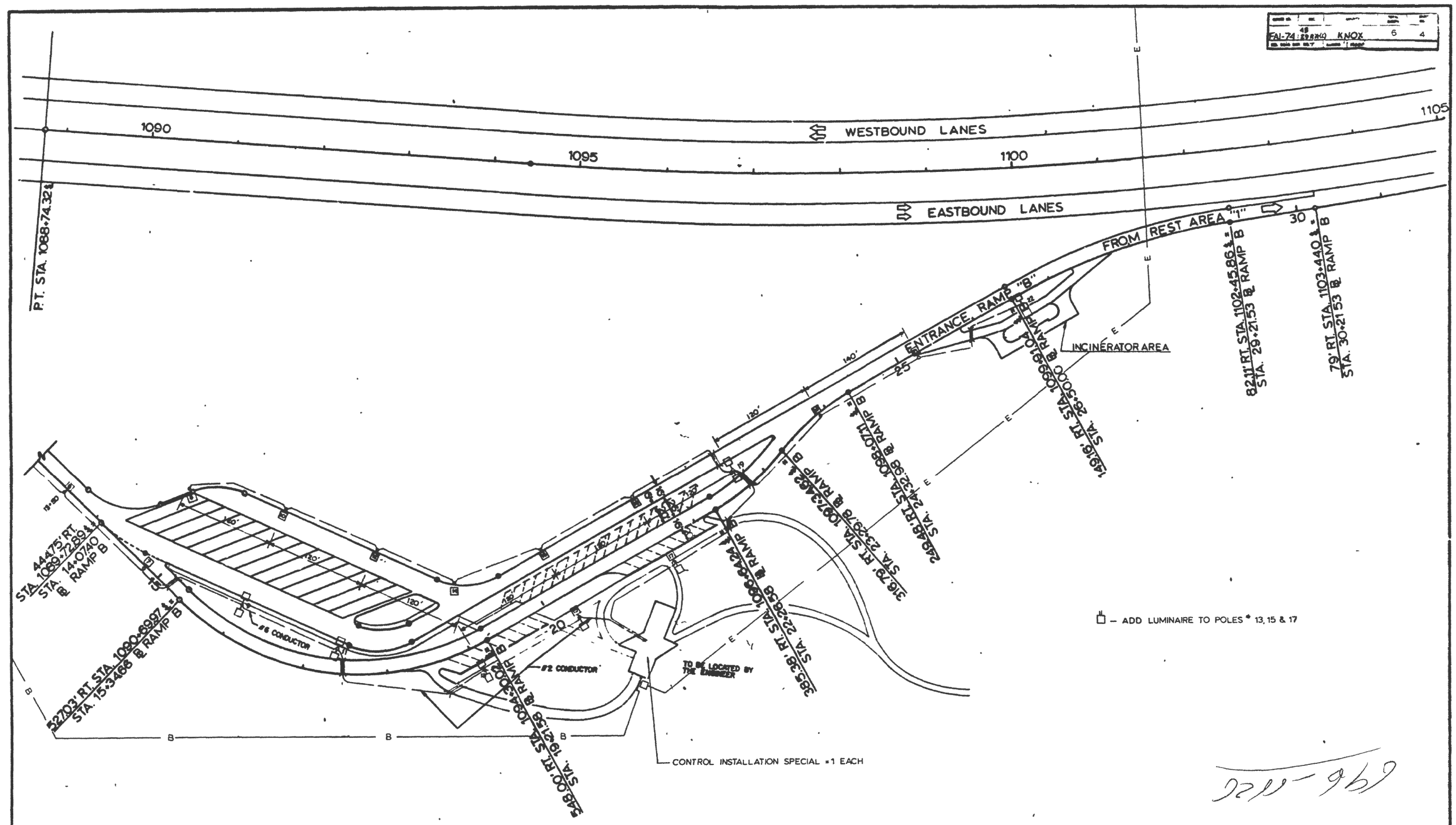
FAI-74	48	29RA0	KNOX	6	3
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FOR INFORMATION ONLY

RAMP LIGHTING
EASTBOUND

FILE NAME =	USER NAME = hanson,tj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING LIGHTING PLANS I-74 SPOON RIVER REST AREAS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\common\GEN\Transfer - bureaus\68E46	- Final Plans\68E46 - Spoon River Rest Area	DRAWN (Final: 5-18-18).dgn	REVISED -			74	48-29RA(L-1)	KNOX	17	14	
	PLOT SCALE = 1/4" = 1' / in.	CHECKED -	REVISED -			CONTRACT NO. 68E46					
	PLOT DATE = 5/18/2018	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

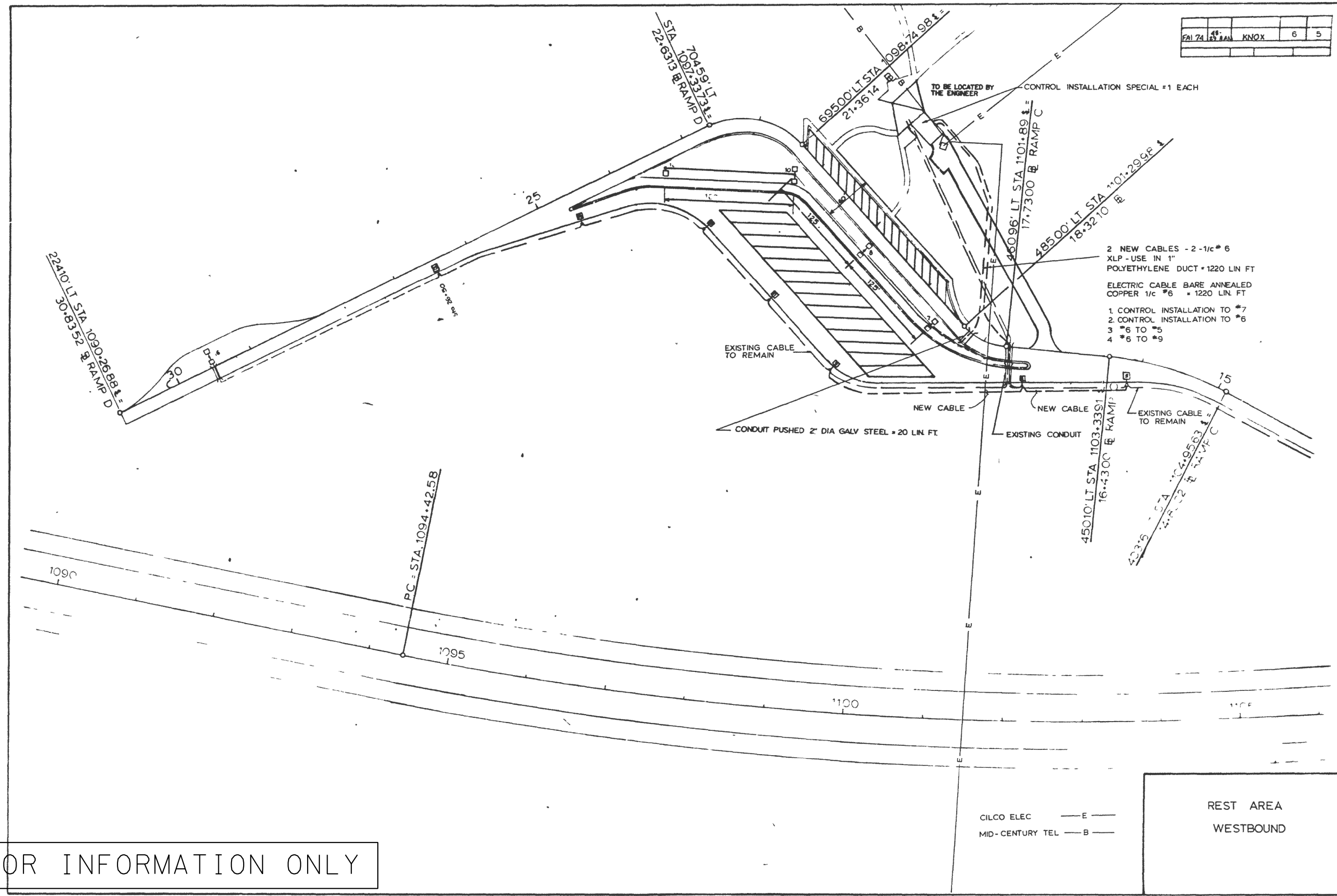


FOR INFORMATION ONLY

REST AREA EASTBOUND

FILE NAME =	USER NAME = hanson,tj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING LIGHTING PLANS I-74 SPOON RIVER REST AREAS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\common\GEN\Transfer - bureaus\68E46	- Final Plans\68E46 - Spoon River Rest Area	DRAWN (Final: 5-18-18).dgn	REVISED -			74	48-29RA(L-1)	KNOX	17	15	
	PLOT SCALE = 1/4" = 1' in.	CHECKED -	REVISED -			CONTRACT NO. 68E46					
	PLOT DATE = 5/18/2018	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

FBI 74	48	29	RA(L)	KNOX	6	5
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- 2 NEW CABLES - 2 - 1/c # 6
- XLP - USE IN 1"
- POLYETHYLENE DUCT = 1220 LIN FT
- ELECTRIC CABLE BARE ANNEALED
- COPPER 1/c #6 = 1220 LIN FT
- 1 CONTROL INSTALLATION TO #7
- 2 CONTROL INSTALLATION TO #6
- 3 #6 TO #5
- 4 #6 TO #9

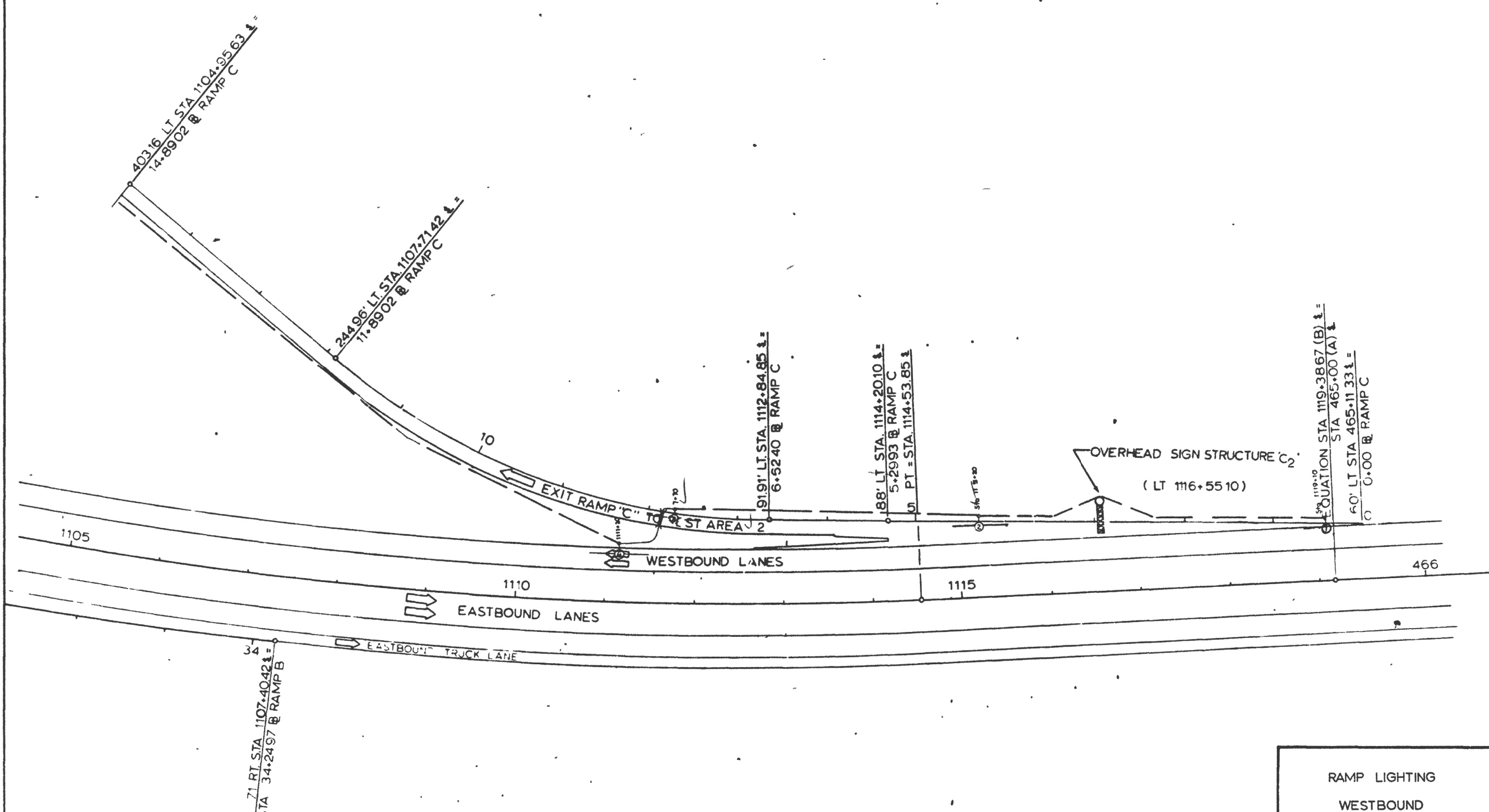
FOR INFORMATION ONLY

CILCO ELEC — E —
 MID-CENTURY TEL — B —

REST AREA
 WESTBOUND

FILE NAME =	USER NAME = hanson,tj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING LIGHTING PLANS I-74 SPOON RIVER REST AREAS	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
D:\common\GEN\Transfer - bureaus\68E46	- Final Plans\68E46 - Spoon River Rest Area	DRAWN (Final: 5-18-18).dgn	REVISED -			74	48-29RA(L-1)	KNOX	17	16	
	PLOT SCALE = 1/4" = 1' / in.	CHECKED -	REVISED -			CONTRACT NO. 68E46					
	PLOT DATE = 5/18/2018	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

FAI-74	18	12 000	KNOX	6	6
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FOR INFORMATION ONLY

RAMP LIGHTING
WESTBOUND

FILE NAME =	USER NAME = hanson,tj	DESIGNED -	REVISED -
D:\common\GEN\Transfer - bureaus\68E46	- Final Plans\68E46 - Spoon River Rest Area	DRAWN (Final) 5-18-18	REVISED -
	PLOT SCALE = 1/4" = 1' in.	CHECKED -	REVISED -
	PLOT DATE = 5/18/2018	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLANS
I-74 SPOON RIVER REST AREAS

SCALE: _____ STA. _____ TO STA. _____

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
74	48-29RA(L-1)	KNOX	17	17
CONTRACT NO. 68E46				
ILLINOIS FED. AID PROJECT				