

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

**F.A.I. ROUTE 57 (I-57)**  
**SECTION (61-2)RA-L**

**POST OAK REST AREA LIGHTING**  
**MARION COUNTY**

C-98-038-12

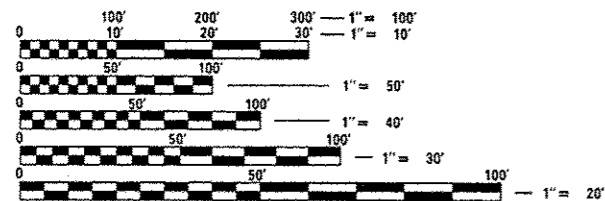
F.A.I. R.T.C.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(61-2)RA-L	MARION	14	1
		ILLINOIS	CONTRACT NO. 76F45	

**INDEX OF SHEETS**

1. COVER SHEET
2. SUMMARY OF QUANTITIES
3. LEGEND AND GENERAL NOTES
4. KEY MAP
5. NB LIGHTING PLAN
6. SB LIGHTING PLAN
7. WIRING, LIGHTING UNIT AND FLAGPOLE LUMINAIRE DETAIL(S)
- 8.-14. "FOR REFERENCE" PLANS 1-7 OF 7

**STANDARDS**

836001-01

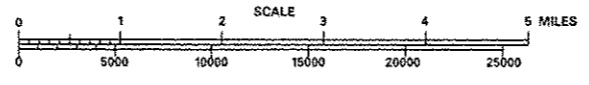
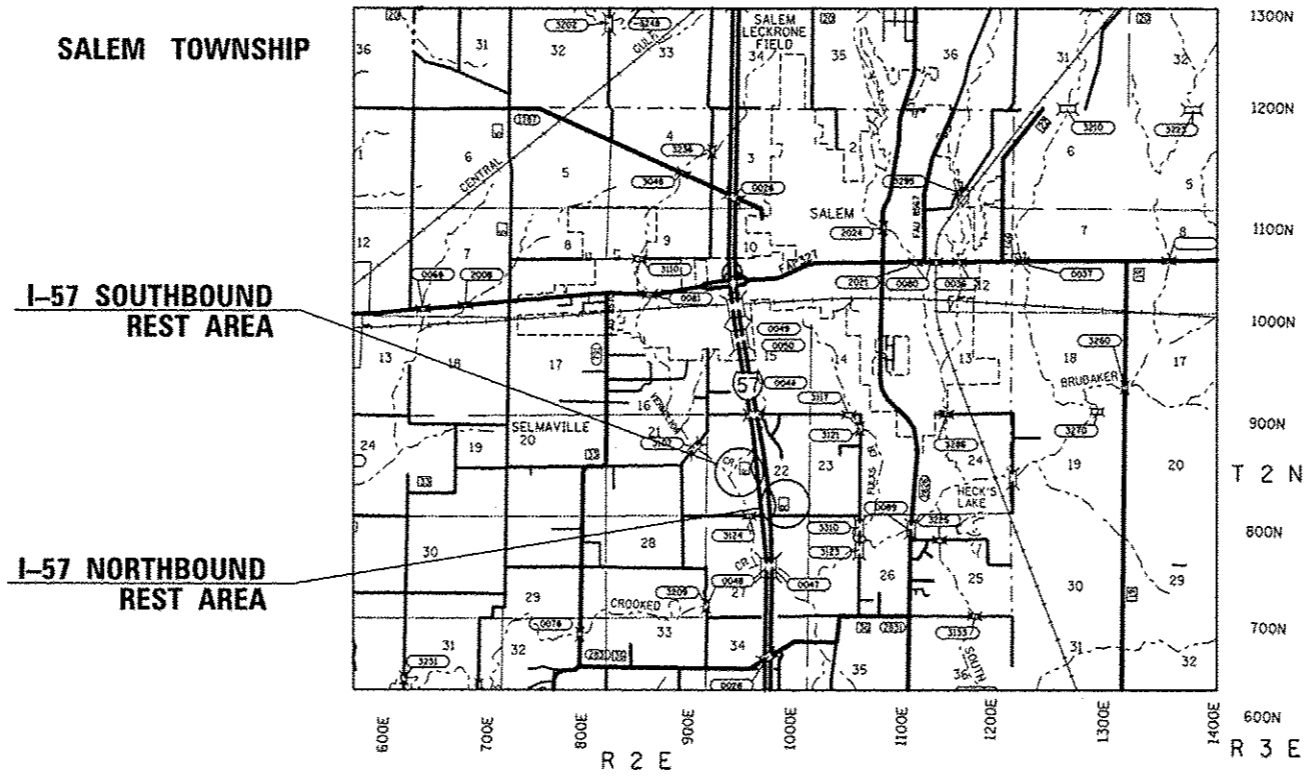


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER-PATTI LEBEAU (618) 346-3179  
 PROJECT MANAGER-MICHAEL PRESTON (618) 346-3143

CONTRACT NO. 76F45



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 DIVISION OF HIGHWAYS


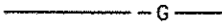
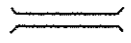





SUBMITTED May 29 2012  
John D. Baranzelli, P.E.  
 DEPUTY DIRECTOR OF HIGHWAYS, REGION 5 ENGINEER

June 29 2012  
John D. Baranzelli, P.E.  
 acting ENGINEER OF DESIGN AND ENVIRONMENT

June 29 2012  
William R. Freyler  
 acting DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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**OF THE STATE OF ILLINOIS**

LEGEND

-  PROPOSED LIGHTING UNIT: 16 FT ALUMINUM POLE, FOUNDATION, LED LUMINAIRE, TYPE THREE DISTRIBUTION, 15 1/2 FT MOUNTING HEIGHT
-  PROPOSED UNIT DUCT, 600V, 2-1C NO.10, 1/C NO.10 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE
-  UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 2 1/2" DIA. (UNDRGRD C CMC 2 1/2)
-  EXISTING CONTROLLER
-  LUMINAIRE, METAL HALIDE, FLAGPOLE (POLE TOP MOUNTED) ARROW INDICATES LUMINAIRE AIMING DIRECTION
-  SAPLINGS
-  SHRUB
-  RUSTIC WOOD POST AND RAIL FENCE

GENERAL LIGHTING NOTES

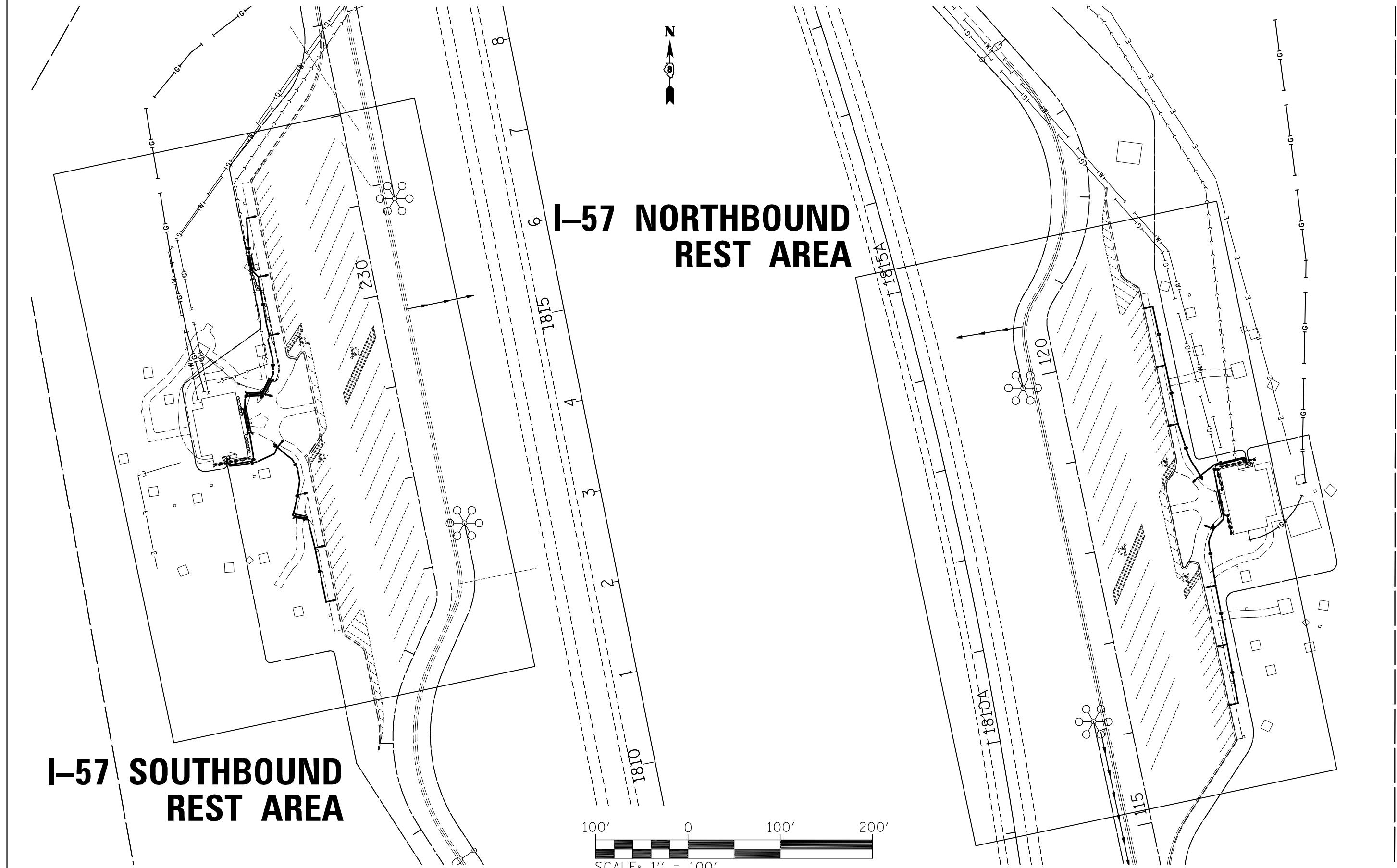
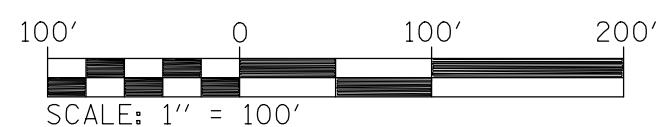
1. SIDEWALK REMOVAL AND REPLACEMENT TO ACCOMMODATE CONDUIT OR UNIT DUCT INSTALLATION IS PROHIBITED.
2. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ELECTRICAL WORK WITH OTHER TRADES.
3. CONTRACTOR SHALL INSTALL LIGHT POLES AT THE LOCATIONS INDICATED ON THE PLANS, MAINTAINING ADEQUATE CLEARANCE FROM OVERHEAD UTILITY LINES. CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY CLEARANCES PER THE NATIONAL ELECTRICAL SAFETY CODE AND/OR THE REQUIREMENTS OF THE UTILITY COMPANIES. THE LOCATION OF BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. REROUTING, DISCONNECTION, RELOCATION, PROTECTION ETC., OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND OWNER. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES AND BURIED IDOT FACILITIES PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR IS RESPONSIBLE FOR UNCOVERING OR HAND DIGGING AROUND UTILITIES AND BURIED I.D.O.T. FACILITIES AS NECESSARY. THE COST OF THIS WORK IS TO BE INCLUDED WITH THE UNIT DUCT PAY ITEM. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE DEPARTMENT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE LIGHTING SYSTEM UNTIL IDOT HAS TAKEN ACCEPTANCE OF THE SYSTEM. ALL EXISTING CIRCUITS AND CABLES TO THE LIGHT POLES SHALL BE MAINTAINED AS NEEDED AND THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT.
6. THE CONTRACTOR SHALL COORDINATE THE WORK WITH THE REST AREA MAINTENANCE PERSONNEL.
7. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKINGS OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. (1-800-892-0123 OR 811) OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY.
8. UTILITY INTERFERENCES ARE NOT ANTICIPATED ON THIS CONTRACT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THEIR CONSTRUCTION ACTIVITIES AND REMEDIAL ACTION PRIOR TO INTERRUPTION OF THE CONTRACTOR'S PROGRESS. NO ADDITIONAL COST SHALL BE ADDED TO CONTRACT RESULTING FROM UTILITY CONFLICTS.
9. PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE WILL NOT BE MEASURED FOR PAYMENT PER ARTICLE 201.1(C)(3) OF THE STANDARD SPECIFICATIONS.
10. REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL SHALL BE PER ARTICLES 109.04 AND 201.07 OF THE STANDARD SPECIFICATIONS.

FILE NAME =	USER NAME = prestonne	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>POST OAK REST AREA LIGHTING LEGEND AND GENERAL NOTES</b>				F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 48.8888 1 / in.		CHECKED -	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.				CONTRACT NO. 76F45				
PLOT DATE = 5/7/2012		DATE -	REVISED -		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT								



# I-57 SOUTHBOUND REST AREA

# I-57 NORTHBOUND REST AREA



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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

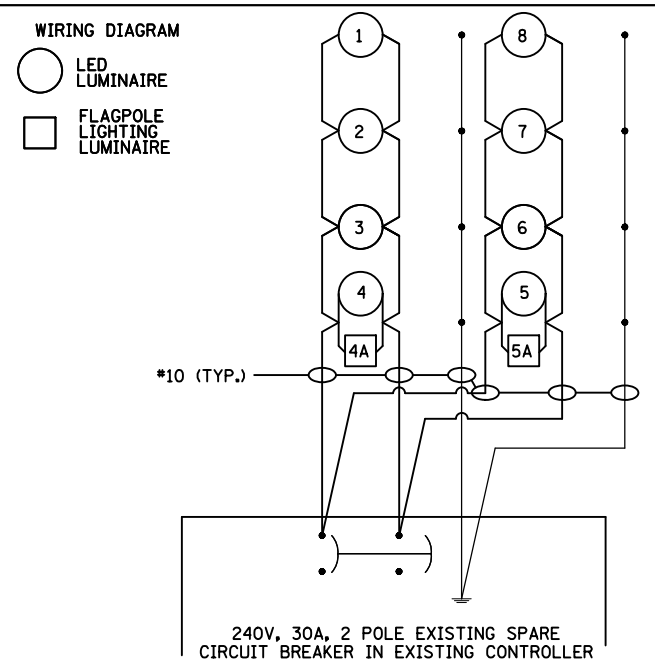
POST OAK REST AREA LIGHTING  
KEY MAP

SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.
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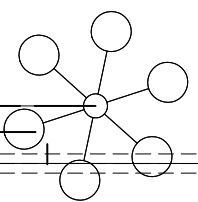
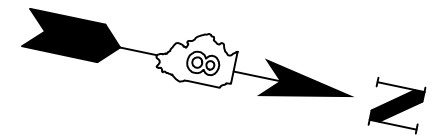
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57	(61-2)RA-L	MARION	14	4
CONTRACT NO. 76F45				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

1810A

18

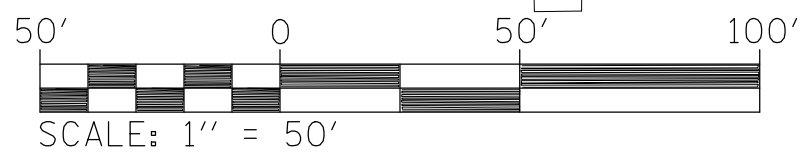
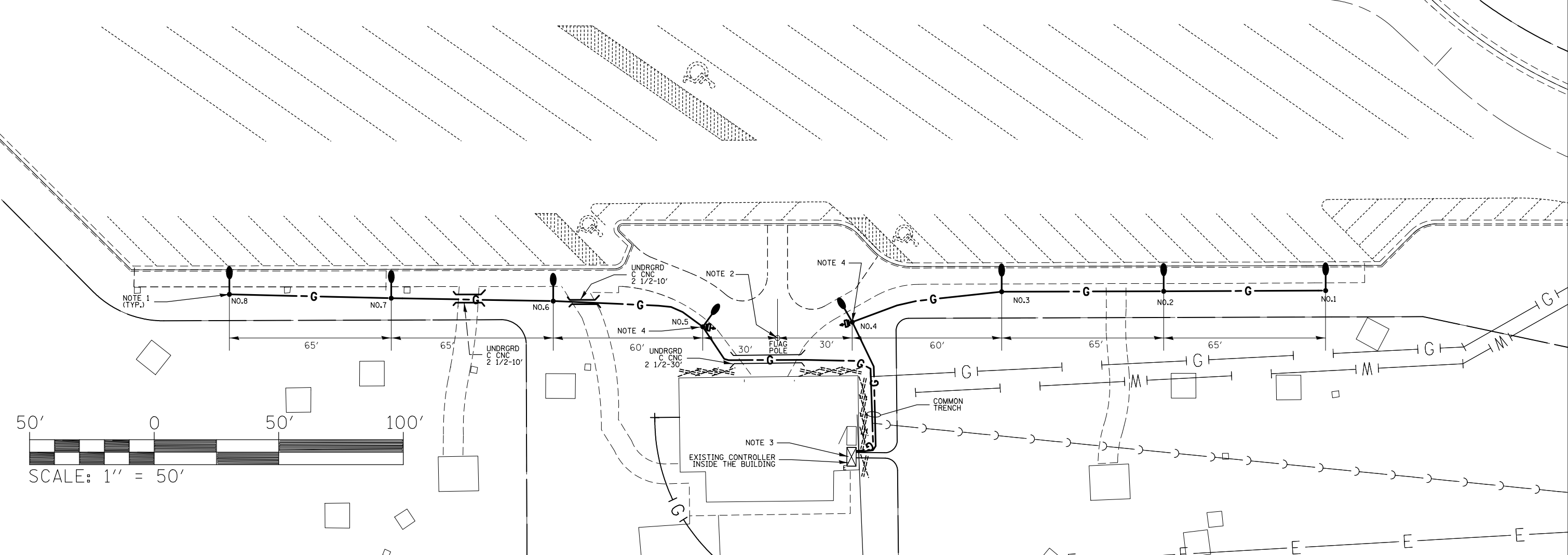


- NOTES
1. POLES SHALL BE SET BACK, 3 FT FROM THE EDGE OF SIDEWALK. THE LOCATION SHALL BE APPROVED BY THE ENGINEER.
  2. POLE LOCATIONS ARE DIMENSIONED FROM THE CENTER OF THE EXISTING PATH.
  3. SEE SPECIAL PROVISION "CONDUIT INTO BUILDING" FOR DESCRIPTION OF WORK.
  4. SEE "WIRING, LIGHTING UNIT AND FLAGPOLE LUMINAIRE DETAIL(S)" SHEET FOR FLAGPOLE LUMINAIRE MOUNTING DETAILS.
  5. CONSTRUCTION LIMITS CONSIST OF TURF:
    - A. EXTENDING FROM SIDEWALK -15'
    - B. EXTENDING FROM BUILDING, EXCEPT FOR "CONDUIT INTO BUILDING" GREATER THAN 5' & LESS THAN 20'
    - C. FOR "CONDUIT INTO BUILDING"(CENTERLINE)-15'



15

120



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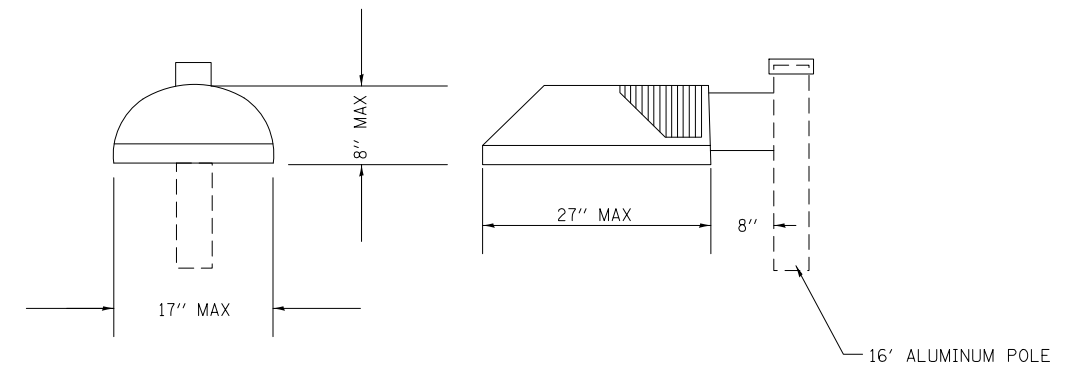
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

POST OAK REST AREA LIGHTING  
NB LIGHTING PLAN

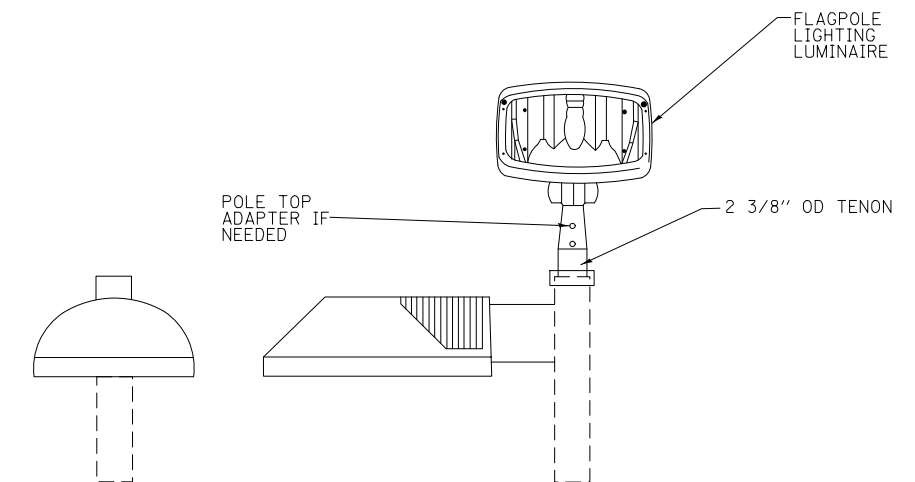
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 76F45				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

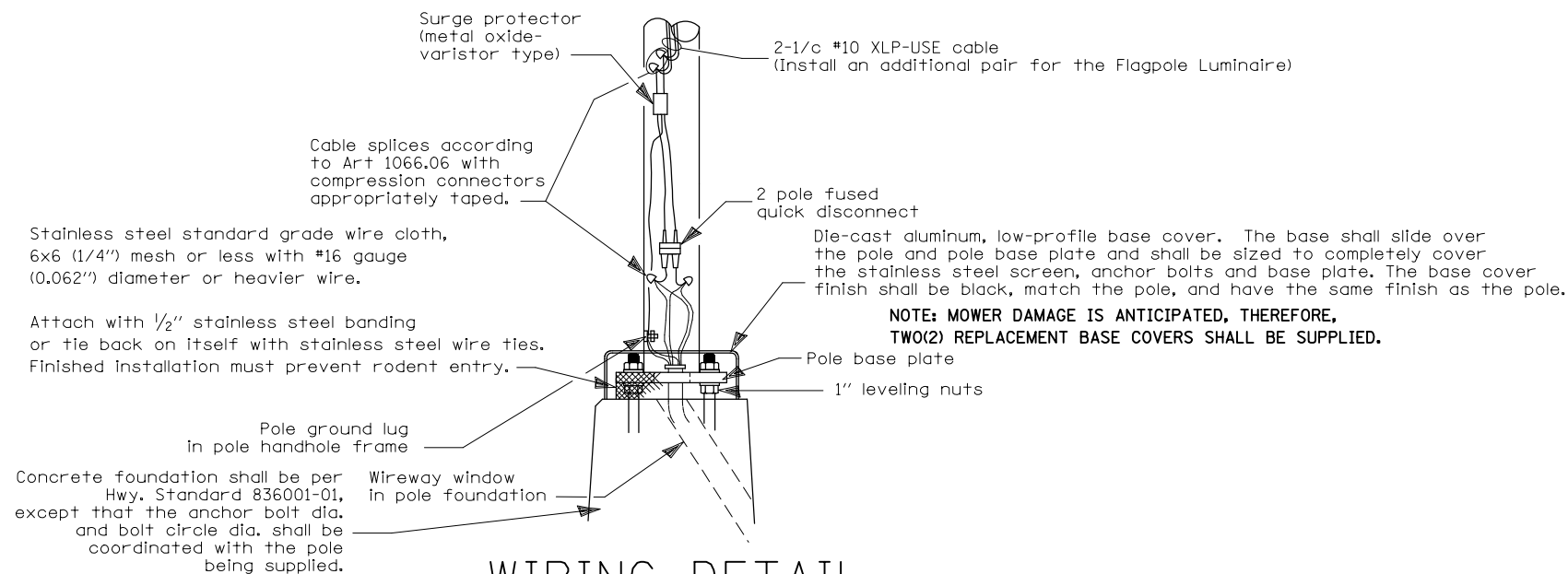




TYPICAL LIGHTING UNIT  
NTS



LIGHTING UNIT WITH A FLAGPOLE LUMINAIRE  
NTS



**WIRING DETAIL**

NO SCALE

GENERAL NOTES

All taped splices shall use 2 layers of electrical tape over 3 layers of rubber tape as required by the Standard Specifications. Coat the finished taped splice with bonding compound.

All cable splices shall be taped unless another method has been specifically approved by the Engineer.

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

Stainless steel standard grade wire cloth, 6x6 (1/4") mesh or less with #16 gauge (0.062") diameter or heavier wire.

Attach with 1/2" stainless steel banding or tie back on itself with stainless steel wire ties. Finished installation must prevent rodent entry.

Concrete foundation shall be per Hwy. Standard 836001-01, except that the anchor bolt dia. and bolt circle dia. shall be coordinated with the pole being supplied.

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	PLOT DATE = 5/7/2012	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

POST OAK REST AREA LIGHTING  
WIRING, LIGHTING UNIT AND FLAGPOLE LUMINAIRE DETAIL(S)

SCALE: SHEET NO. OF SHEETS STA. TO STA.

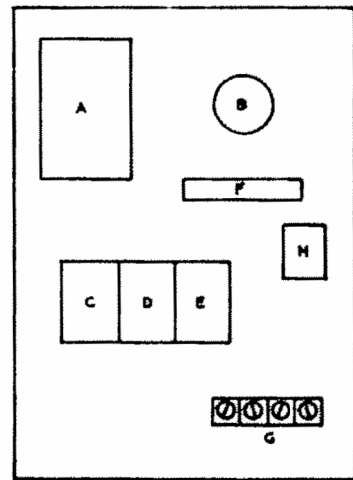
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(61-2)RA-L	MARION	14	7
CONTRACT NO. 76F45				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

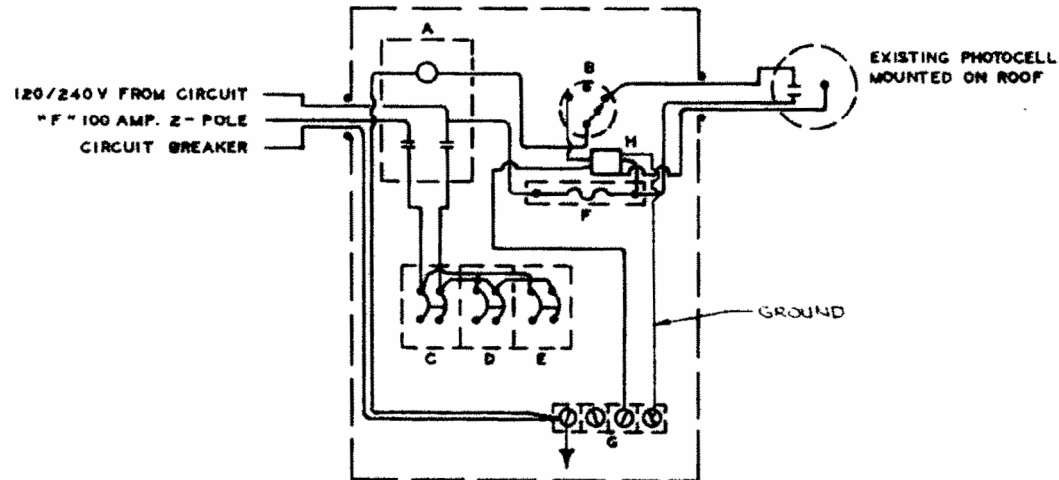
THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED OCTOBER 1, 1993; THE "STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS", ADOPTED FEBRUARY 1, 1984; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" AND THE SPECIAL PROVISIONS INCLUDED IN THE PROPOSAL.

THE WORK INCLUDED IN THIS SECTION CONSISTS OF THE FURNISHING, DELIVERING, INSTALLING, TESTING AND PLACING IN SATISFACTORY SERVICE THE LIGHTING SYSTEM SHOWN ON THE PLANS.

- A - 60 AMP. 2- POLE CONTACTOR
- B - 3 POSITION SELECTOR SWITCH
- CDE - 30 AMP. 2-POLE CIRCUIT BREAKER
- F - 10 AMP. CARTRIDGE FUSE & HOLDER OR 10 AMP. CIRCUIT BREAKER
- G - GROUND BUS
- H - SURGE PROTECTOR



**OUTDOOR LIGHTING CONTROL CABINET**



**WIRING DIAGRAM**

**CONTROL INSTALLATION  
DETAIL**

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	QUANTITY
			MARION CO.
			3FT-12
			CONSTRUCTION TYPE CODE
661003	UNIT DUCT, 2-600V XLP # 6, 1" POLYETHYLENE	LIN. FT.	6300
660602	BARE COPPER WIRE, 1/C NO. 6	LIN. FT.	6300
664009	CONTROL INSTALLATION, SPECIAL	EACH	2
670001	SIGN LIGHTING (HIGH PRESSURE SODIUM)	LIN. FT.	52.5
660501	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE), 1/C NO. 12	LIN. FT.	1440
662001	TRENCH AND BACKFILL FOR ROADWAY LIGHTING	LIN. FT.	6080
645001	LIGHT POLE FOUNDATION	EACH	18
665003	LIGHT TOWER FOUNDATION, 48" DIAMETER	LIN. FT.	64.5
667544	LIGHT POLE STEEL, 45 FT. H.H. TENON MOUNT	EACH	18
668002	LIGHT TOWER, 80' MOUNTING HEIGHT, LUMINAIRE MOUNT - 6	EACH	4
669003	LUMINAIRE SODIUM VAPOR, HIGH MAST, VERTICAL MOUNT, 400 WATT	EACH	24
669052	LUMINAIRE SODIUM VAPOR, VERTICAL MOUNT, 250 WATT	EACH	18
654001	MOBILIZATION	L. SUM	1
LO4711	REMOVE AND SALVAGE POLE MOUNTED LIGHTS	EACH	6

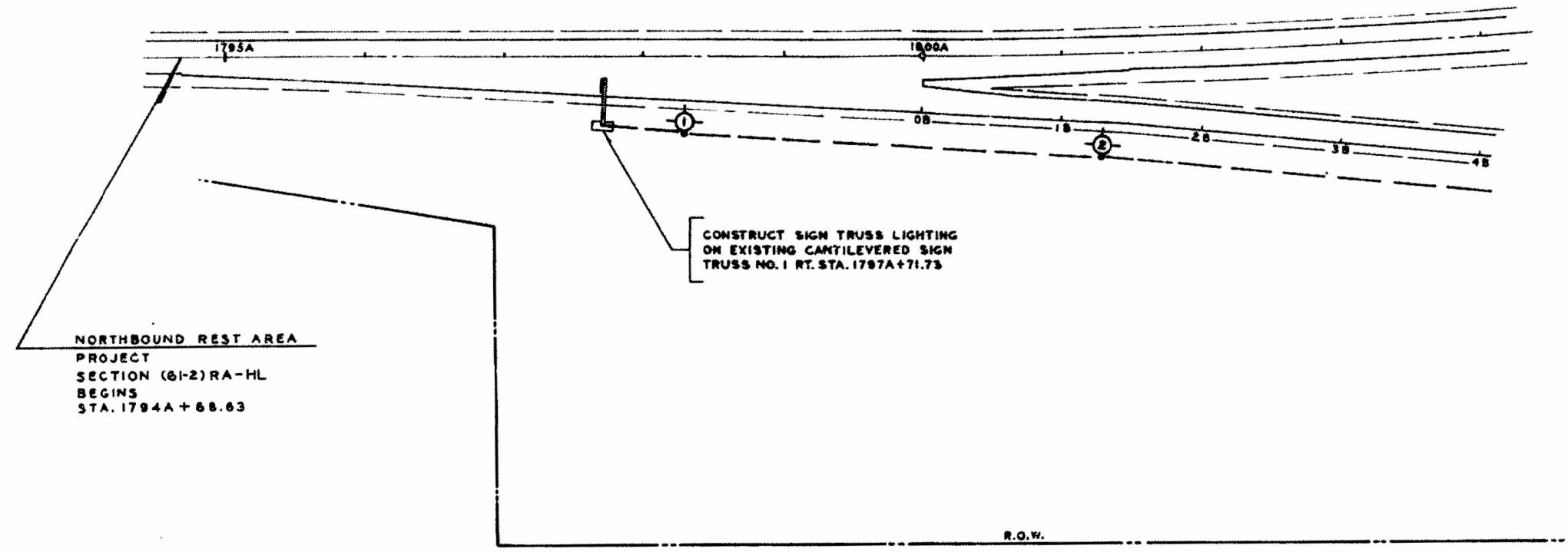
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	PLOT DATE = 5/7/2012	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES GENERAL NOTES & DETAIL OF CONTROL INSTALLATION				
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(61-2)RA-L	MARION	14	8
CONTRACT NO. 76F45				
SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	










NORTHBOUND REST AREA  
PROJECT  
SECTION (61-2)RA-HL  
BEGINS  
STA. 1794A+68.63

CONSTRUCT SIGN TRUSS LIGHTING  
ON EXISTING CANTILEVERED SIGN  
TRUSS NO. 1 RT. STA. 1797A+71.73

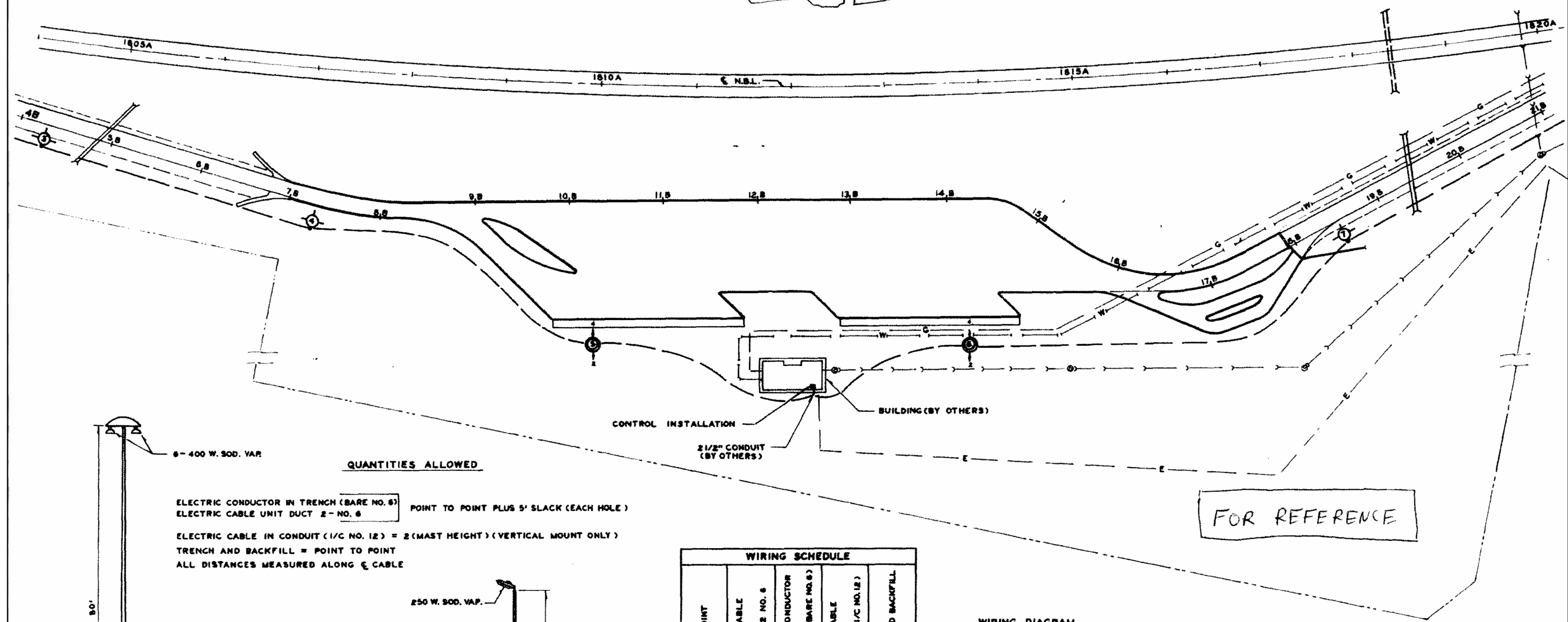
R.O.W.

**LEGEND**

-  45' M.H. STEEL POLE WITH 250 WATT V.M. LUMINAIRE  
VERTICAL ANGLE OF LUMINAIRE AT 25' SETBACK IS 37°
-  80' HIGH MAST POLE WITH 6-400 WATT V.M. H.M.  
LUMINAIRES. NUMBERS AND ARROWS SHOW QUANTITY  
AND DIRECTION FOR ORIENTATION.
-  2 - 1/2" NO. 6 (XLP-USE) INSULATED CABLES IN 1"  
POLYETHYLENE DUCT AND 1/2" NO. 6 BARE COPPER  
CONTINUOUS GROUND.
-  CANTILEVER SIGN TRUSS
-  CONTROL INSTALLATION

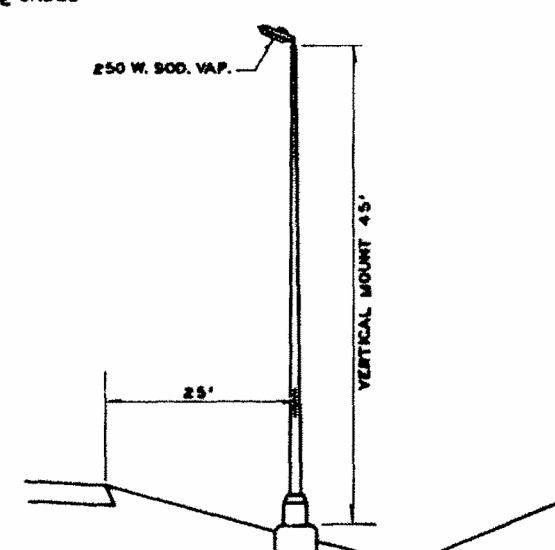
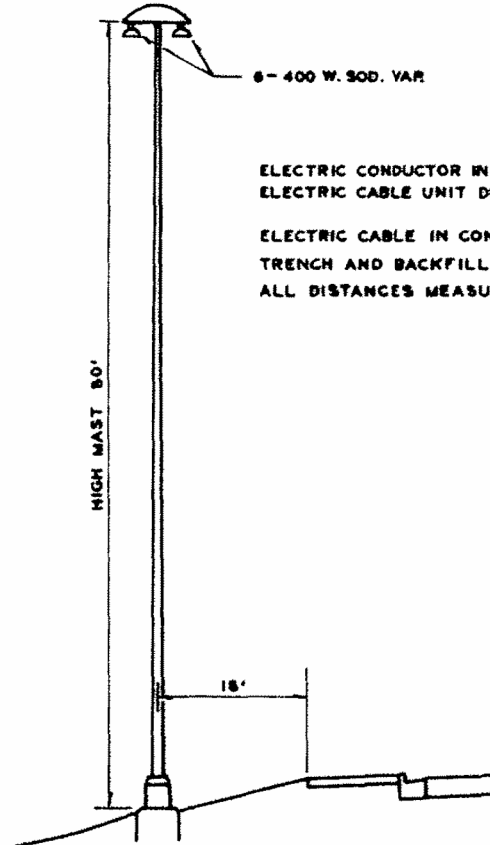
CONSTRUCT LIGHTS				
LIGHT NO.	STATION	POLE MOUNTING HEIGHT	LUMINAIRE TYPE	
1	RT. 1798A+30	45'	250 W. 300. VAP.	
2	RT. 18+30	45'	250 W. 300. VAP.	

FOR REFERENCE



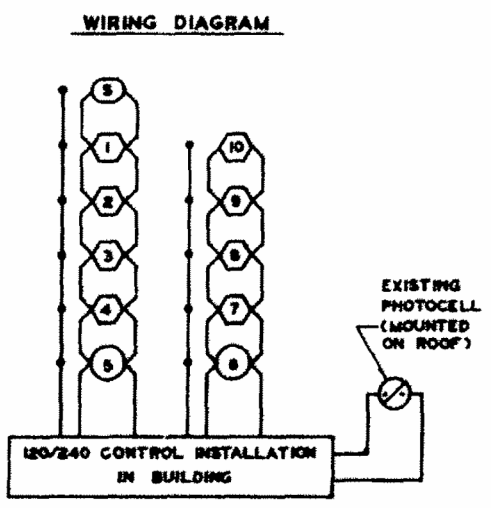
**QUANTITIES ALLOWED**

ELECTRIC CONDUCTOR IN TRENCH (BARE NO. 6) POINT TO POINT PLUS 5' SLACK (EACH HOLE)  
 ELECTRIC CABLE UNIT DUCT 2-NO. 6  
 ELECTRIC CABLE IN CONDUIT (1/C NO. 12) = 2 (MAST HEIGHT) (VERTICAL MOUNT ONLY)  
 TRENCH AND BACKFILL = POINT TO POINT  
 ALL DISTANCES MEASURED ALONG C CABLE



**PLACEMENT OF POLES (TYP.)**

POINT TO POINT	WIRING SCHEDULE			
	ELECTRIC CABLE UNIT DUCT 2 NO. 6	ELECTRIC CONDUCTOR IN TRENCH (BARE NO. 6)	ELECTRIC CABLE IN CONDUIT (1/C NO. 12)	TRENCH AND BACKFILL
	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.
CON-5	280	280	—	250
5-4	350	350	90	340
4-3	310	310	90	300
3-2	310	310	90	300
2-1	310	310	90	300
1-TRUSS	70	70	—	60
CON-6	190	190	—	180
6-7	455	455	90	445
7-8	310	310	90	300
8-9	310	310	90	300
9-10	310	310	90	300
<b>TOTALS</b>	<b>3185</b>	<b>3185</b>	<b>720</b>	<b>3075</b>



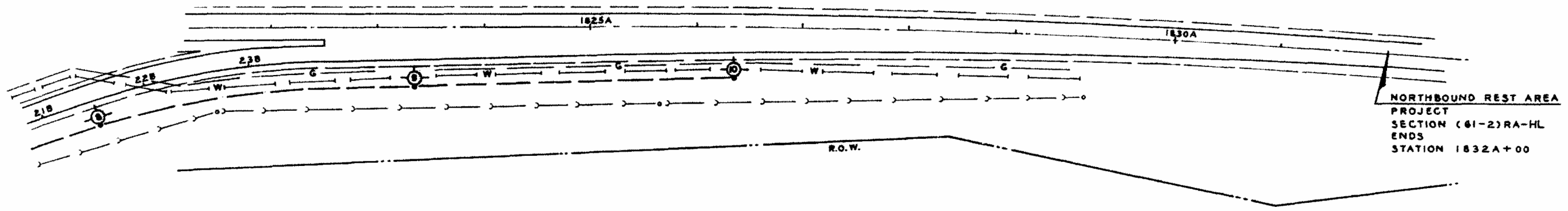
CONSTRUCT LIGHTS			
LIGHT NO.	STATION	POLE MOUNTING HEIGHT	LUMINAIRE TYPE
3	RT. 48+30	45'	250 W. SOD. VAP.
4	RT. 78+30	45'	250 W. SOD. VAP.
5	RT. 108+25	80'	6-400 W. SOD. VAP.
6	RT. 148+25	80'	6-400 W. SOD. VAP.
7	RT. 188+50	45'	250 W. SOD. VAP.

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	PLOT DATE = 5/7/2012	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

(NORTH BOUND REST AREA) STA 1804+00 TO STA 1820+00  
 POST OAK REST AREA LIGHTING  
 "FOR REFERENCE" PLAN 3 OF 7  
 SCALE: SHEET NO. OF SHEETS STA. TO STA.

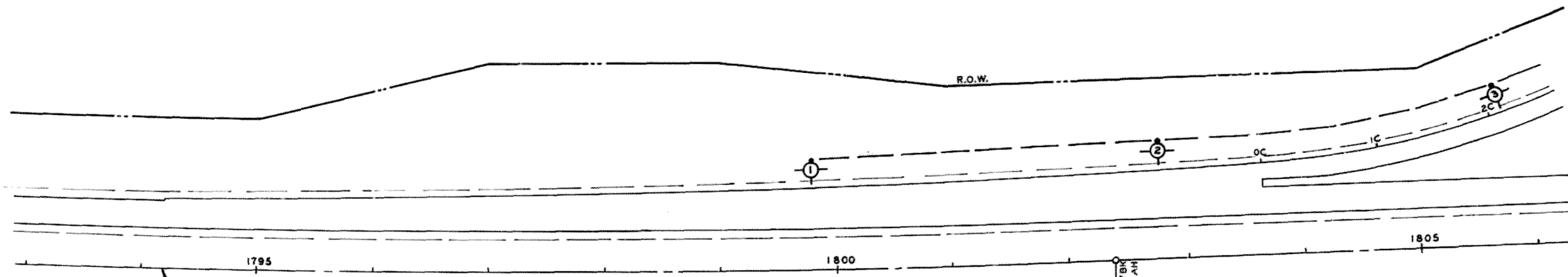
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(61-2)RA-L	MARION	14	10
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 76F45	



**NORTHBOUND REST AREA**  
**PROJECT**  
**SECTION (61-2)RA-HL**  
**ENDS**  
**STATION 1832A+00**

CONSTRUCT LIGHTS			
LIGHT NO.	STATION	POLE MOUNTING HEIGHT	LUMINAIRE TYPE
8	RT. 218+50	45'	250 W. SOD. VAP.
9	RT. 1823A+35	45'	250 W. SOD. VAP.
10	RT. 1826A+35	45'	250 W. SOD. VAP.

FOR REFERENCE



SOUTHBOUND REST AREA  
PROJECT  
SECTION (61-2)RA-HL  
STA. 1794+18.66

FOR REFERENCE

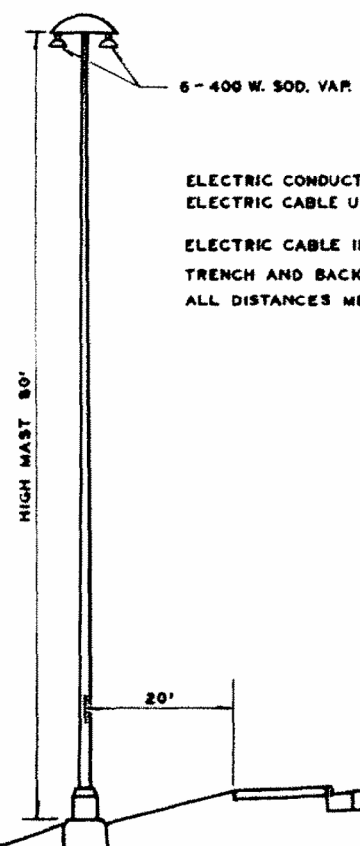
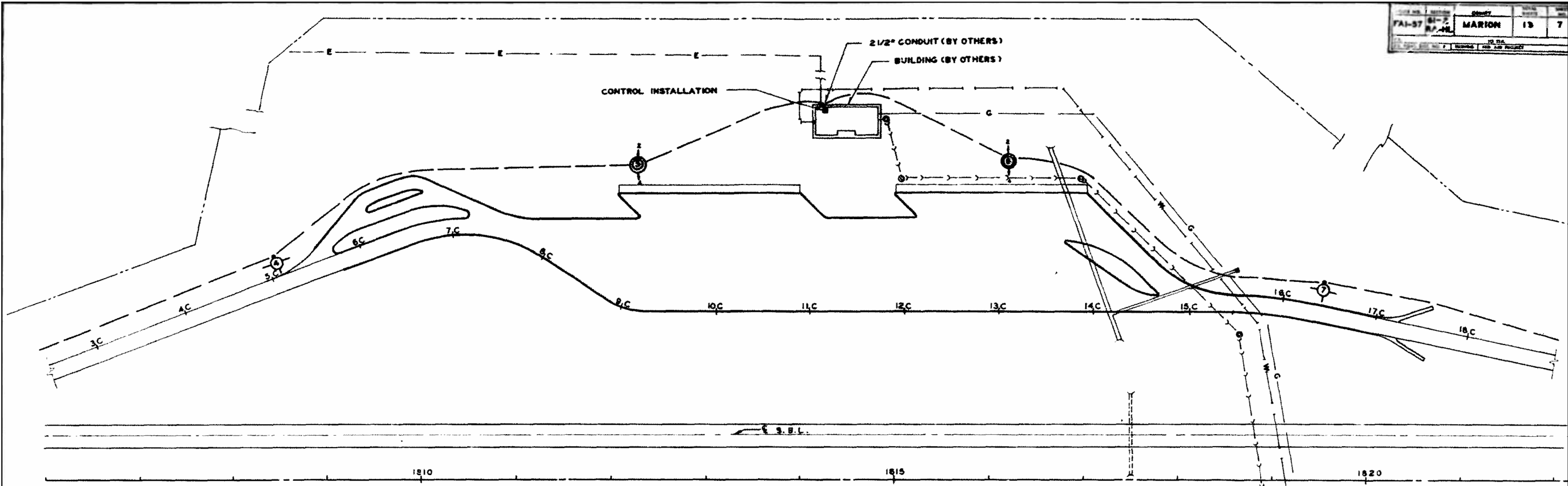
CONSTRUCT LIGHTS				
LIGHT NO.	STATION	POLE MOUNTING HEIGHT	LUMINAIRE TYPE	
1	LT. 1799+80	45'	250 W. SOD. VAP.	
2	LT. 1802+80	45'	250 W. SOD. VAP.	
3	LT. 2C+10	45'	250 W. SOD. VAP.	

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	PLOT DATE = 5/7/2012	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

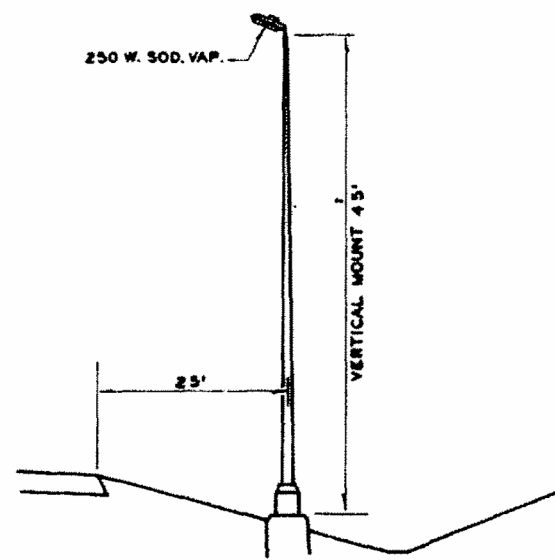
SOUTHBOUND REST AREA ENTRANCE TERMINAL DETAIL			
POST OAK REST AREA LIGHTING			
"FOR REFERENCE" PLAN 5 OF 7			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(61-2)RA-L	MARION	14	12
CONTRACT NO. 76F45				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



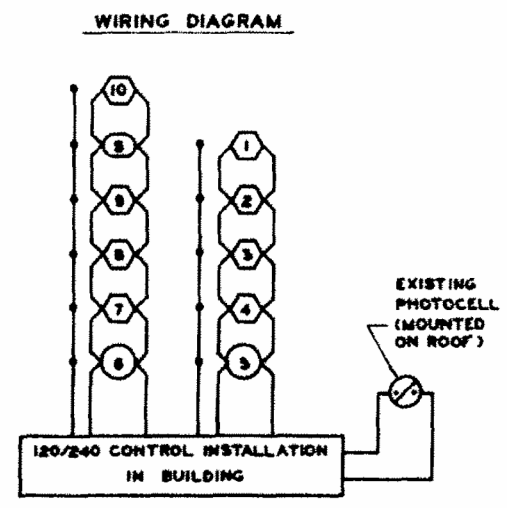
**QUANTITIES ALLOWED**

ELECTRIC CONDUCTOR IN TRENCH (BARE NO. 6) POINT TO POINT PLUS 5' SLACK (EACH HOLE)  
 ELECTRIC CABLE UNIT DUCT 2 - NO. 6  
 ELECTRIC CABLE IN CONDUIT (1/C NO. 12) = 2 (MAST HEIGHT) (VERTICAL MOUNT ONLY)  
 TRENCH AND BACKFILL = POINT TO POINT  
 ALL DISTANCES MEASURED ALONG CABLE



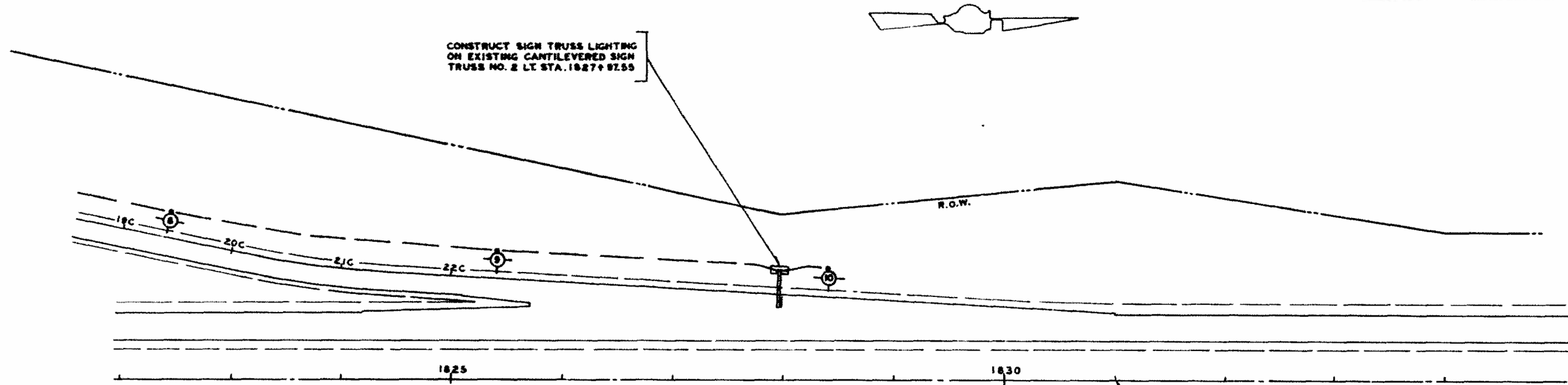
**PLACEMENT OF POLES (TYP.)**

POINT TO POINT	WIRING SCHEDULE			
	ELECTRIC CABLE UNIT DUCT 2 NO. 6	ELECTRIC CONDUCTOR IN TRENCH (BARE NO. 6)	ELECTRIC CABLE IN CONDUIT (1/C NO. 12)	TRENCH AND BACKFILL
	LIN. FT.	LIN. FT.	LIN. FT.	LIN. FT.
CON - 5	220	220	—	210
5 - 4	425	425	90	415
4 - 3	310	310	90	300
3 - 2	300	300	90	290
2 - 1	310	310	90	300
CON - 6	220	220	—	210
6 - 7	385	385	90	375
7 - 8	310	310	90	300
8 - 9	310	310	90	300
9 - TRUSS	270	270	—	260
TRUSS - 10	55	55	90	45
<b>TOTALS</b>	<b>3115</b>	<b>3115</b>	<b>720</b>	<b>3005</b>



CONSTRUCT LIGHTS			
LIGHT NO.	STATION	POLE MOUNTING HEIGHT	LUMINAIRE TYPE
4	LT. 5C+10	45'	250 W. SOD. VAP.
5	LT. 9C+20	80'	6 - 400 W. SOD. VAP.
6	LT. 13C+20	80'	6 - 400 W. SOD. VAP.
7	LT. 18C+40	45'	250 W. SOD. VAP.

FOR REFERENCE



**SOUTHBOUND REST AREA**  
**PROJECT**  
**SECTION (61-2)RA-HL**  
**ENDS**  
**STATION 1831+00**

CONSTRUCT LIGHTS			
LIGHT NO.	STATION	POLE MOUNTING HEIGHT	LUMINAIRE TYPE
8	LT. 19C+40	45'	250 W. SOD.VAP.
9	LT. 22C+40	45'	250 W. SOD.VAP.
10	LT. 1828+40	45'	250 W. SOD.VAP.

FOR REFERENCE

**SOUTHBOUND REST AREA EXIT TERMINAL DETAIL**

FILE NAME =	USER NAME = prestonme	DESIGNED -	REVISED -
et:\pwork\pwork\prestonme\d0287033\d076f45-sht-11ght.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 5/7/2012	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**POST OAK REST AREA LIGHTING**  
**"FOR REFERENCE" PLAN 7 OF 7**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
57	(61-2)RA-L	MARION	14	14
CONTRACT NO. 76F45				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				