

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		REF. SHEET		
			L-8		L-9		L-10		L-11		L-12		L-13		L-14		L-15		L-16		L-17		L-18			PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL			
555-1-1	DIRECTIONAL BORE (LESS THAN 6")	LF					140								140										280		
715-1-12	LIGHTING CONDUCTOR, F & I, INSULATED, NO. 8 TO NO. 6	LF	2,120		3,639		4,339		3,660		2,040		3,630		4,545		3,714		3,594		3,477		3,720		38,478		
715-1-13	LIGHTING CONDUCTOR, F & I, INSULATED, NO. 4 TO NO. 2	LF																									
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF	580		1,120		1,120		1,120		1,120		410												5,470		
715-2-11	LIGHTING CONDUIT (F & I) (UNDERGROUND)	LF	660		1,168		1,180		1,170		640		1,170		1,160		1,170		1,160		1,090		1,180		11,748		
715-7-11	LOAD CENTER (F & I) (SECONDARY VOLTAGE)	EA																							1		
715-7-21	LOAD CENTER (REWORK) (SECONDARY VOLTAGE)	EA					1																		1		
715-14-11	PULL BOX (F & I) (ROADSIDE) (MOULDED)	EA	5 Δ		5 Δ		10 Δ		4 Δ		4 Δ		4 Δ		7 Δ		8 Δ		4 Δ		6 Δ		4 Δ		61 Δ		
715-500-1	POLE CABLE DISTRIBUTION SYSTEM (CONVENTIONAL)	EA	4		4		6		4		4		4		4		6		4		4		4		48		
715-4-600	LIGHT POLE COMPLETE (REMOVE)	EA	4		6		4		6		4		4		4		6		4		4		4		28		
715-4-122	LIGHTING POLE COMPLETE (F & I) (WIND SPEED 130) (POLE HEIGHT 45')	EA	4		4		6		4		4		4		4		6		4		4		4		48		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6105-23.003, F.A.C.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	Δ REVISED QUANTITIES.			

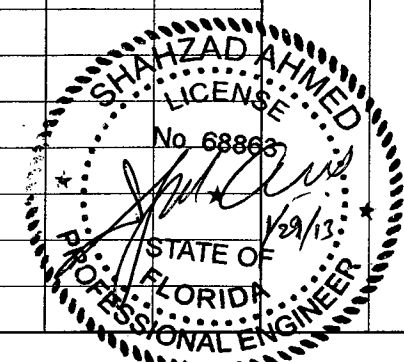
URS
 URS Corporation Southern
 7650 West Courtney
 Campbell Causeway
 Tampa, FL 33607-1462
 Certificate of Authorization No. 00000002
 Shahzad Ahmed, P.E. No. 68863

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

TABULATION OF QUANTITIES	SHEET NO. L-2
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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		REF. SHEET		
			L-8		L-9		L-10		L-11		L-12		L-13		L-14		L-15		L-16		L-17		L-18			PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL			
555-1-1	DIRECTIONAL BORE (LESS THAN 6")	LF					140	140							140	140									280	280	
715-1-12	LIGHTING CONDUCTOR, F & I, INSULATED, NO. 8 TO NO. 6	LF	2,120	2120	3,639	3639	4,339	4339	3,660	3660	2,040	2040	3,630	3630	3,465	3465	3,714	3714	3,594	3594	3,477	3477	3,720	3720	37,398	37398	
715-1-13	LIGHTING CONDUCTOR, F & I, INSULATED, NO. 4 TO NO. 2	LF												1,080	1080										1,080	1080	
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF	580	580	1,120	1120	1,120	1120	1,120	1120	1,120	1120	410	410											5,470	5470	
715-2-11	LIGHTING CONDUIT (F & I) (UNDERGROUND)	LF	660	660	1,168	1168	1,180	1180	1,170	1170	640	640	1,170	1170	1,160	1160	1,170	1170	1,160	1160	1,090	1090	1,180	1180	11,748	11748	
715-7-11	LOAD CENTER (F & I) (SECONDARY VOLTAGE)	EA												1	1										1	1	
715-7-21	LOAD CENTER (REWORK) (SECONDARY VOLTAGE)	EA					1	1																	1	1	
715-14-11	PULL BOX (F & I) (ROADSIDE) (MOULDED)	EA	5	5	5	5	10	10	4	4	4	4	4	4	7	7	8	8	4	4	6	6	4	4	61	61	
715-500-1	POLE CABLE DISTRIBUTION SYSTEM (CONVENTIONAL)	EA	4	4	4	4	6	6	4	4	4	4	4	4	4	4	6	6	4	4	4	4	4	4	48	48	
715-4-600	LIGHT POLE COMPLETE (REMOVE)	EA	4	4	6	6	4	4	6	6	4	4	4	4											28	28	
715-4-122	LIGHTING POLE COMPLETE (F & I) (WIND SPEED 130) (POLE HEIGHT 45')	EA	4	4	4	4	6	6	4	4	4	4	4	4	4	4	6	6	4	4	4	4	4	4	48	48	



REVISIONS					
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01/29/13	SA	△ REVISED QUANTITIES.			

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

TABULATION OF QUANTITIES	SHEET NO. L-2
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NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G5-23.003, F.A.C.

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		REF. SHEET		
			L-19		L-20		L-21		L-22		L-23		L-24		L-25		L-26		L-27		L-28		L-29			PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL			
555-1-1	DIRECTIONAL BORE (LESS THAN 6")	LF			108														140						248		
715-1-12	LIGHTING CONDUCTOR, F & I, INSULATED, NO. 8 TO NO. 6	LF	3,625		3,065		2,766		3,505		3,695		3,590		3,655		3,555		1,460						28,916		
715-1-13	LIGHTING CONDUCTOR, F & I, INSULATED, NO. 4 TO NO. 2	LF																	3,350		3,655		3,435		10,440		
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF																									
715-2-11	LIGHTING CONDUIT (F & I) (UNDERGROUND)	LF	1,440		930		880		1,400		1,450		1,440		1,450		1,440		1,460		1,450		1,400		12,040		
715-7-11	LOAD CENTER (F & I) (SECONDARY VOLTAGE)	EA																	1						1		
715-7-21	LOAD CENTER (REWORK) (SECONDARY VOLTAGE)	EA																									
715-14-11	PULL BOX (F & I) (ROADSIDE) (MOULDED)	EA	6 Δ		8 Δ		4 Δ		6 Δ		9 Δ		5 Δ		6 Δ		4 Δ		9 Δ		6 Δ		4 Δ		67 Δ		
715-500-1	POLE CABLE DISTRIBUTION SYSTEM (CONVENTIONAL)	EA	4		6		4		4		6		4		6		4		4		6		4		52		
715-4-600	LIGHT POLE COMPLETE (REMOVE)	EA																									
715-4-122	LIGHTING POLE COMPLETE (F & I) (WIND SPEED 130) (POLE HEIGHT 45')	EA	4		6		4		4		6		4		6		4		4		6		4		52		

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	Δ REVISED QUANTITIES.			

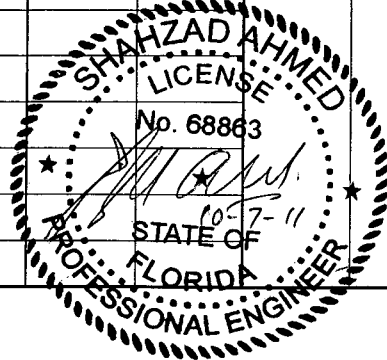
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

TABULATION OF QUANTITIES	SHEET NO. L-3
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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		REF. SHEET		
			L-19		L-20		L-21		L-22		L-23		L-24		L-25		L-26		L-27		L-28		L-29			PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL			
555-1-1	DIRECTIONAL BORE (LESS THAN 6")	LF			108														140						248		
715-1-12	LIGHTING CONDUCTOR, F & I, INSULATED, NO. 8 TO NO. 6	LF	3,625	△ 2,945	2,825		3,505		3,695		3,590		3,655		3,555		1,460								28,855		
715-1-13	LIGHTING CONDUCTOR, F & I, INSULATED, NO. 4 TO NO. 2	LF															3,350		3,655		3,435				10,440		
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF																									
715-2-11	LIGHTING CONDUIT (F & I) (UNDERGROUND)	LF	1,140	△ 890	900		1,100		1,150		1,140		1,150		1,140		1,160		1,150		1,100				11,020		
715-7-11	LOAD CENTER (F & I) (SECONDARY VOLTAGE)	EA															1								1		
715-7-21	LOAD CENTER (REWORK) (SECONDARY VOLTAGE)	EA																									
715-14-11	PULL BOX (F & I) (ROADSIDE) (MOULDED)	EA	6 △	8 △	4 △		6 △		9 △		5 △		6 △		4 △		9 △		6 △		4 △				67 △		
715-500-1	POLE CABLE DISTRIBUTION SYSTEM (CONVENTIONAL)	EA	4		6		4		4		6		4		6		4		4		6		4		52		
715-4-600	LIGHT POLE COMPLETE (REMOVE)	EA																									
715-4-122	LIGHTING POLE COMPLETE (F & I) (WIND SPEED 130) (POLE HEIGHT 45')	EA	4		6		4		4		6		4		6		4		4		6		4		52		



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	△ REVISED QUANTITIES.			
10/7/11	SA	△ REVISED LIGHT POLE LOCATION.			

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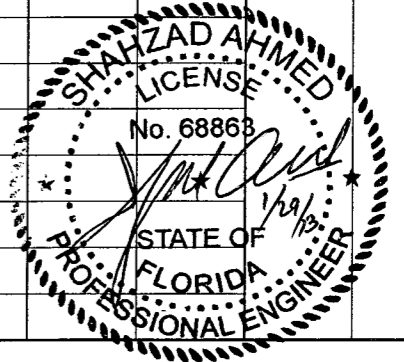
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

TABULATION OF QUANTITIES	SHEET NO. L-3
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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		REF. SHEET			
			L-19		L-20		L-21		L-22		L-23		L-24		L-25		L-26		L-27		L-28		L-29			PLAN	FINAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL				
555-1-1	DIRECTIONAL BORE (LESS THAN 6")	LF			108	108												140	140					248	248			
715-1-12	LIGHTING CONDUCTOR, F & I, INSULATED, NO. 8 TO NO. 6	LF	3,625	3625 ^Δ	3,245	3245	2,750	2750	2,095	2095	3,695	3695	3,590	3590	3,655	3655	3,555	3555	1,460	1460					27,670 ^Δ	27670		
715-1-13	LIGHTING CONDUCTOR, F & I, INSULATED, NO. 4 TO NO. 2	LF																3,350	3350	3,655	3655	3,435	3435	10,440	10440			
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF																										
715-2-11	LIGHTING CONDUIT (F & I) (UNDERGROUND)	LF	1,140	1140 ^Δ	990	990	875	875	665	665	1,150	1150	1,140	1140	1,150	1150	1,140	1140	1,160	1160	1,150	1150	1,100	1100	11,660 ^Δ	11660		
715-7-11	LOAD CENTER (F & I) (SECONDARY VOLTAGE)	EA																1	1							1	1	
715-7-21	LOAD CENTER (REWORK) (SECONDARY VOLTAGE)	EA																										
715-14-11	PULL BOX (F & I) (ROADSIDE) (MOULDED)	EA	6 ^Δ	6	8 ^Δ	8	5 ^Δ	5	4 ^Δ	4	9 ^Δ	9	5 ^Δ	5	6 ^Δ	6	4 ^Δ	4	9 ^Δ	9	6 ^Δ	6	4 ^Δ	4	66 ^Δ	66		
715-500-1	POLE CABLE DISTRIBUTION SYSTEM (CONVENTIONAL)	EA	4	4	6	6	5 ^Δ	5	4	4	6	6	4	4	6	6	4	4	4	4	6	6	4	4	53 ^Δ	53		
715-4-600	LIGHT POLE COMPLETE (REMOVE)	EA																										
715-4-122	LIGHTING POLE COMPLETE (F & I) (WIND SPEED 130) (POLE HEIGHT 45')	EA	4	4	6	6	5 ^Δ	5	4	4	6	6	4	4	6	6	4	4	4	4	6	6	4	4	53 ^Δ	53		



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	Δ REVISED QUANTITIES.			
10/7/11	SA	Δ REVISED LIGHT POLE LOCATION.			
01/29/13	SA	Δ REVISED QUANTITIES.			

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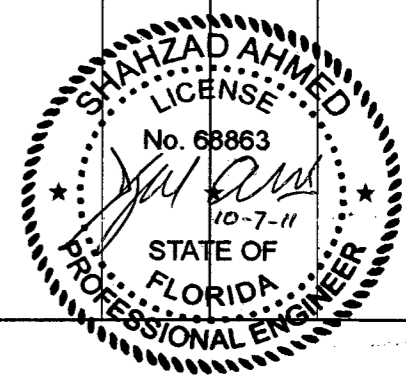
TABULATION OF QUANTITIES	SHEET NO. L-3
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Rev 3 10-7-11

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET			
			L-30		L-31		L-32		L-33		L-34																	
			FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL					
555-1-1	DIRECTIONAL BORE (LESS THAN 6")	LF																										
715-1-12	LIGHTING CONDUCTOR, F & I, INSULATED, NO. 8 TO NO. 6	LF																							67,333			
715-1-13	LIGHTING CONDUCTOR, F & I, INSULATED, NO. 4 TO NO. 2	LF	3,620	3,620	3,620	3,620	3,555	880														15,295		25,735				
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF																						5,470				
715-2-11	LIGHTING CONDUIT (F & I) (UNDERGROUND)	LF	1,450	1,450	1,450	1,440		270														4,860		27,358				
715-7-11	LOAD CENTER (F & I) (SECONDARY VOLTAGE)	EA																						2				
715-7-21	LOAD CENTER (REWORK) (SECONDARY VOLTAGE)	EA																						1				
715-14-11	PULL BOX (F & I) (ROADSIDE) (MOULDED)	EA	5 Δ	5 Δ	6 Δ	4 Δ		2 Δ														22 Δ		150 Δ				
715-500-1	POLE CABLE DISTRIBUTION SYSTEM (CONVENTIONAL)	EA	4	4	6	4		2														20		120				
715-4-600	LIGHT POLE COMPLETE (REMOVE)	EA																						28				
715-4-122	LIGHTING POLE COMPLETE (F & I) (WIND SPEED 130) (POLE HEIGHT 45')	EA	4	4	6	4		2														20		120				



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	Δ REVISED QUANTITIES.			
10/7/11	SA	Δ REVISED QUANTITIES.			

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25	HIGHLANDS	194485-1-52-01

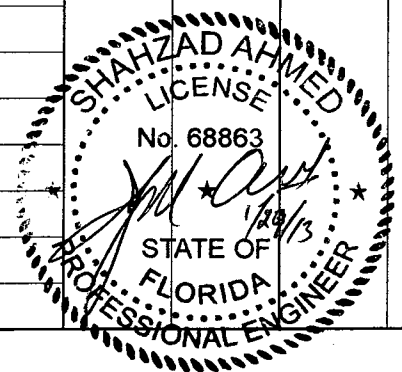
TABULATION OF QUANTITIES	
SHEET NO.	
L-4	

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Revision 4 1-29-13

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET	
			L-30		L-31		L-32		L-33		L-34													
			FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL				
555-1-1	DIRECTIONAL BORE (LESS THAN 6")	LF																		528	528	528	528	14
715-1-12	LIGHTING CONDUCTOR, F & I, INSULATED, NO. 8 TO NO. 6	LF																		65,068	65,068	65,068	65,068	
715-1-13	LIGHTING CONDUCTOR, F & I, INSULATED, NO. 4 TO NO. 2	LF	3,620	3620	3,620	3620	3,620	3620	3,555	3555	880	880								15,295	15295	26,815	26815	
715-1-60	LIGHTING CONDUCTORS, REMOVE & DISPOSE, CONTRACTOR OWNS	LF																		5,470	5,470	5,470	5,470	
715-2-11	LIGHTING CONDUIT (F & I) (UNDERGROUND)	LF	1,150	1150	1,150	1150	1,150	1150	1,140	1140	270	270								4,860	4860	28,268	28268	
715-7-11	LOAD CENTER (F & I) (SECONDARY VOLTAGE)	EA																		2	2	2	2	
715-7-21	LOAD CENTER (REWORK) (SECONDARY VOLTAGE)	EA																		1	1	1	1	
715-14-11	PULL BOX (F & I) (ROADSIDE) (MOULDED)	EA	5	5	5	5	6	6	4	4	2	2								22	22	149	149	
715-500-1	POLE CABLE DISTRIBUTION SYSTEM (CONVENTIONAL)	EA	4	4	4	4	6	6	4	4	2	2								20	20	121	121	
715-4-600	LIGHT POLE COMPLETE (REMOVE)	EA																		28	28	28	28	
715-4-122	LIGHTING POLE COMPLETE (F & I) (WIND SPEED 130) (POLE HEIGHT 45')	EA	4	4	4	4	6	6	4	4	2	2								20	20	121	121	14



REVISIONS					
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10/7/11	SA	△ REVISED QUANTITIES.			
01/29/13	SA	△ REVISED QUANTITIES.			

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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

TABULATION OF QUANTITIES

SHEET NO.
L-4

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 605-23.003, F.A.C.

GENERAL NOTES

1. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL EQUIPMENT SPECIFICATION OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT. THESE MUST SPECIFICALLY INCLUDE:
 - A) LUMINAIRE PHOTOMETRICS. SEE ALSO NOTE 8
 - B) POLE STRENGTH CALCULATIONS & POLE SHOP DRAWINGS
 - C) POLE FRANGIBILITY TEST
 - D) ANCHOR BOLT DESIGN CALCULATIONS & SHOP DRAWINGS
 - E) DISTRIBUTION POINT ELECTRICAL EQUIPMENT

SEVEN COPIES OF DESIGN CALCULATIONS, SHOP DRAWINGS AND DESIGN DATA FOR ROADWAY LIGHTING EQUIPMENT SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL. THE DESIGN CALCULATIONS AND RELATED SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A STATE OF FLORIDA REGISTERED PROFESSIONAL ENGINEER.

19. CONTRACTOR SHALL PREPARE ACCURATELY DIMENSIONED "AS BUILT" PLANS OF FINAL POLE, CONTROLLER, AND CONDUIT LOCATIONS. PLANS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER, TWO COPIES SUBMITTED TO THE RESIDENT ENGINEER AND ONE COPY TO THE FOOT DISTRICT / MAINTENANCE IN SEBRING, FL. COST OF SUCH PREPARATION SHALL BE INCIDENTAL TO PAY ITEMS PROVIDED.
20. ALL SPLICES SHALL BE MADE IN PULL BOXES ONLY WITH COMPRESSION SLEEVES OR SPLIT BOLT CONNECTIONS, PROPERLY TAPED, WATERPROOFED AND ENCAPSULATED.
21. INSPECT ALIGNMENT OF EACH INDIVIDUAL POLE AND FIXTURE AS FOLLOWS:
 - POLE ALIGNMENT: WITHIN ONE HALF DEGREE ON VERTICAL +/-, CONFIRM VERTICAL ALIGNMENT, VIEWING FROM ADJACENT SERIES OF POLES, IN BOTH DIRECTIONS.
 - FIXTURE ALIGNMENT: WITHIN ONE DEGREE OF HORIZONTAL +/-, USING CALIBRATED LEVEL ALONG BOTH AXES OF CUT-OFF FIXTURE FACE, WITH FLAT LENS ONLY.
22. THE CONTRACTOR SHALL CONTACT THE POWER COMPANY (PROGRESS ENERGY, JAMES BENT, 863-678-4444) TO DETERMINE IF A SERVICE PROCESSING FEE IS REQUIRED AND VERIFY THE PROPER METERING ENCLOSURE AND ANY ADDITIONAL DISCONNECT DEVICE REQUIREMENTS, IF REQUIRED. THE FEE SHALL BE INCLUDED AS PART OF PAYMENT FOR THE LOAD CENTER.
23. THE EXISTING US-27 LIGHTING SHALL REMAIN OPERATIONAL DURING ALL PHASES OF CONSTRUCTION. THE COST ASSOCIATED WITH THE OPERATION AND MAINTENANCE OF THE LIGHTS IS INCIDENTAL TO PAY ITEM 102-1. ONCE THE PROPOSED LIGHTING IS INSTALLED AND OPERATIONAL, THEN THE ARM AND LUMINAIRE FACING US-27 SHALL BE REMOVED.

2. THE LOCATION OF THE POLES, CONDUCTORS, CONDUITS, JUNCTION BOXES AND SERVICE POLES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED BY THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS.
3. SHOP DRAWING SUBMITTAL DATA SHALL INCLUDE COMPUTER PRINTOUT SHOWING HORIZONTAL FOOTCANDLE LEVELS TO BE OBTAINED USING THE SUBMITTED LUMINAIRES ON THIS PROJECT. UPON REQUEST, AT FINAL INSPECTION THE CONTRACTOR SHALL VERIFY THE HORIZONTAL FOOTCANDLE LEVELS ON THE ROADWAY WITH AN APPROVED CURRENTLY CALIBRATED LIGHT METER. THE LIGHTING IS BASED ON APPROXIMATELY 1.5 FOOTCANDLE AVERAGE INITIAL ILLUMINATION WITH MINIMUM OF THREE LANES IN EACH DIRECTION.
4. ALL CONDUITS SHALL BE MANDREL TESTED AND CLEANED. CONDUIT PLACED FOR FUTURE USE SHALL HAVE 1/4" POLYESTER CORD PULLED IN PLACE AND CAPPED, WITH NOTATION INSIDE CONDUIT AS TO LOCATION OF OPPOSITE END. PLACE DUCT MARKER OR PULL BOXES TO MARK ENDS OF EMPTY CONDUITS.
5. INSTALL LIGHTNING ARRESTORS, PROPERLY GROUNDED, IN POWER (SECONDARY) ENTRANCES ON OUTSIDE OF ENCLOSURE.
6. IN ACCORDANCE WITH N.E.C., IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACOID TAGS". INSTALL SIMILAR TAGS OF STAINLESS STEEL IDENTIFYING CIRCUIT FOR EACH LUMINAIRE AT ACCESS HANDHOLE FOR EACH POLE.
7. THE CONTRACTOR SHALL NOTIFY THE POWER COMPANY AT LEAST TWO BUSINESS DAYS PRIOR TO ANY INSTALLATION THAT IS WITHIN THE AREA OF OSHA RULE (29 CFR PART 1926) FOR UTILITY ENERGIZED ELECTRICAL CONDUCTORS. THE POWER COMPANY AT IT'S OPTION, SHALL ASSIST THE CONTRACTOR, COVER UP ENERGIZED CONDUCTORS AT INSTALLATION SITE, OR TAKE OTHER SAFETY PRECAUTIONS AS NECESSARY. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS. SEE ROADWAY DESIGN BULLETIN 11-03 DCE MEMORANDUM 02-II.
8. PULLING INSTRUCTIONS: CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO JACKET AND MEET MANUFACTURER'S REQUIREMENTS. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN RECOMMENDED BY N.E.C. OR N.E.S.C. FOR CABLE USED.
9. THE CONTRACTOR SHALL USE THE CONCRETE FOUNDATION PER FDOT INDEX 17515 OR THE SPECIAL FOUNDATION ON SHEET L-37.
10. CONTRACTOR SHALL FURNISH AND INSTALL AN ALUMINUM IDENTIFICATION TAG ON EACH ROADWAY LIGHTING STANDARD. TAGS SHALL BE 2 INCHES x 8 INCHES IN SIZE WITH BLACK LETTERS ON YELLOW BACKGROUND, ATTACHED WITH RIVETS (NO SCREWS). NUMBERS SHALL BE PER POLE IDENTIFICATION TAG DETAIL. COST OF TAGS SHALL BE INCLUDED IN THE BID ITEMS FOR LIGHT POLE COMPLETE. TAG SHALL BE INSTALLED AT 5 FEET ABOVE GRADE.
11. ALL CONDUITS UNDER ROADWAY (AND/OR SIDEWALK) SHALL BE INSTALLED PRIOR TO THE INSTALLATION OF ROADWAY BASE AND SURFACE (OR CONCRETE), EXCEPT WHERE OTHERWISE INDICATED IN THE PLANS.
12. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE WITHIN TWO FEET OF THE LIGHT POLE FOUNDATIONS OR CONDUIT RUNS, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR WILL HAND DIG THE FIRST FOUR FEET OF THE HOLE FOR THE POLE FOUNDATION AND CONDUIT RUN.
13. ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. THE CONTRACTOR SHALL NOT OPEN ANY AREA THAT CAN NOT BE BACKFILLED IN THE SAME DAY/NIGHT OPERATION.
14. ALL EXCESS DIRT AND DEBRIS EXCAVATED FROM POLE FOUNDATIONS SHALL BE REMOVED DAILY TO AREAS APPROVED BY THE ENGINEER.
15. THE MAINTAINING AGENCY FOR THE LIGHTING SYSTEM ON SR 25 IS HIGHLANDS COUNTY AND CITY OF AVON PARK.
16. CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND REQUEST UTILITY COMPANIES TO LOCATE AND STAKE UNDERGROUND UTILITIES PRIOR TO EXCAVATING.
17. THE CONTRACTOR SHALL VERIFY POLE LENGTHS REQUIRED PER THE CROSS SECTION AND OFFSET IN ORDER TO ACHIEVE THE PROPER LUMINAIRE MOUNTING HEIGHT PRIOR TO SUBMITTING SHOP DRAWINGS AND/OR FABRICATION.
18. CONDUIT LOCATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. CONDUIT MUST BE PLACED WITHIN THE RIGHT-OF-WAY BUT CAN BE ADJUSTED TO FIT AROUND THE EXISTING AND PROPOSED UTILITIES. WHERE PLANNED LOCATION OF LIGHTING CONDUIT RUNS 36" UNDER PAVEMENT IS FOUND TO CONFLICT WITH UNDERGROUND UTILITIES, THE LIGHTING CONDUIT POSITION SHALL BE ALTERED VERTICALLY OR HORIZONTALLY TO AVOID THE CONFLICT AS RECOMMENDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. A 24" ABSOLUTE MINIMUM DEPTH SHALL BE MAINTAINED WHERE LIGHTING CONDUITS ARE RELOCATED CLOSER THAN 36" BELOW THE GROUND SURFACE AND SHALL BE PLACED IN AN ADDITIONAL 3" PVC SLEEVE OR BACKFILLED WITH A MIN. OF 4" x 4" OF CONCRETE. COST OF SUCH TREATMENT WILL BE INCIDENTAL TO PAY ITEMS PROVIDED.

REVISIONS						URS Corporation Southern 7650 West Courtney Campbell Causeway Tampa, FL 33607-1462 Certificate of Authorization No. 00000002 Shahzad Ahmed, P.E. No. 68863	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-5				
			25	HIGHLANDS	194485-1-52-01						

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

POLE DATA

CONVENTIONAL LIGHTING DESIGN CRITERIA

Average Initial Intensity 1.5 Foot Candles
 Uniformity Ratio Avg./Min. 4:1 Or Less
 Max./Min. 10:1 Or Less
 Wind Speed 130 MPH

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK FROM EDGE OF PAVEMENT	PAY ITEM
1	C-I	1056+60.00, LT.	15'	400	45'	20'	715-4-122
2		1058+70.00, LT.	15'	400	45'	16'	715-4-122
3		1061+15.00, LT.	15'	400	45'	20'	715-4-122
4		1063+50.00, LT.	15'	400	45'	20'	715-4-122
5		1066+00.00, LT.	15'	400	45'	20'	715-4-122
6		1068+50.00, LT.	15'	400	45'	20'	715-4-122
7	C-III	1071+00.00, LT.	15'	400	45'	20'	715-4-122
8		1073+50.00, LT.	15'	400	45'	20'	715-4-122
9		1076+00.00, LT.	15'	400	45'	20'	715-4-122
10		1078+40.00, LT.	15'	400	45'	20'	715-4-122
11	A-I	1080+80.00, LT.	15'	400	45'	14'	715-4-122
12		1083+10.00, LT.	15'	400	45'	14'	715-4-122
13		1085+85.00, LT.	15'	400	45'	20'	715-4-122
14		1088+25.00, LT.	15'	400	45'	20'	715-4-122
15	C-II	1056+60.00, RT.	15'	400	45'	20'	715-4-122
16		1058+70.00, RT.	15'	400	45'	20'	715-4-122
17		1061+15.00, RT.	15'	400	45'	20'	715-4-122
18		1063+50.00, RT.	15'	400	45'	20'	715-4-122
19		1065+93.00, RT.	15'	400	45'	20'	715-4-122
20		1068+50.00, RT.	15'	400	45'	20'	715-4-122
21	C-IV	1071+00.00, RT.	15'	400	45'	20'	715-4-122
22		1073+50.00, RT.	15'	400	45'	20'	715-4-122
23		1076+00.00, RT.	15'	400	45'	14'	715-4-122
24		1078+40.00, RT.	15'	400	45'	14'	715-4-122
25	A-II	1080+80.00, RT.	15'	400	45'	20'	715-4-122
26		1083+10.00, RT.	15'	400	45'	16'	715-4-122
27		1085+80.00, RT.	15'	400	45'	14'	715-4-122
28		1088+25.00, RT.	15'	400	45'	16'	715-4-122
29	A-III	1090+75.00, LT.	15'	400	45'	20'	715-4-122
30		1093+43.00, LT.	15'	400	45'	20'	715-4-122
31		1096+11.00, LT.	15'	400	45'	20'	715-4-122
32		1098+80.00, LT.	15'	400	45'	20'	715-4-122
33		1101+55.00, LT.	15'	400	45'	20'	715-4-122
34		1104+15.00, LT.	15'	400	45'	20'	715-4-122
35		1106+80.00, LT.	15'	400	45'	20'	715-4-122
36		1109+30.00, LT.	15'	400	45'	20'	715-4-122
37		1111+80.00, LT.	15'	400	45'	20'	715-4-122
38		1114+30.00, LT.	15'	400	45'	20'	715-4-122
39		1116+80.00, LT.	15'	400	45'	20'	715-4-122
40		1119+30.00, LT.	15'	400	45'	20'	715-4-122
41		1121+80.00, LT.	15'	400	45'	10'	715-4-122
42		1123+75.00, LT.	15'	400	45'	10'	715-4-122
43		1126+00.00, LT.	15'	400	45'	14'	715-4-122
44	A-IV	1090+75.00, RT.	15'	400	45'	20'	715-4-122
45		1093+43.00, RT.	15'	400	45'	20'	715-4-122
46		1096+11.00, RT.	15'	400	45'	20'	715-4-122
47		1098+80.00, RT.	15'	400	45'	20'	715-4-122
48		1101+55.00, RT.	15'	400	45'	20'	715-4-122
49		1104+30.00, RT.	15'	400	45'	20'	715-4-122
50		1106+80.00, RT.	15'	400	45'	20'	715-4-122

LEGEND

SYMBOLS



DESCRIPTION

Pole, Arm, and Luminaire. 400 watt high pressure sodium luminaire. Designed for Medium cutoff Type III distribution. Integral regulator type ballast wired for 480 volt operation. Pole mounting height 45 ft. Use GE curve 451002 or equal. Lamp shall produce a minimum of 51000 initial lumens. Symbol includes a pull box and pole cable distribution system.

Existing pole and luminaire to remain

Existing pole and luminaire to be removed

Schedule 40 PVC conduit with RHW Cross Polylink conductors inside (conduit and conductor size as shown on plan sheets)

Size 2" HDPE conduit or equal, Directional Bored under pavement with RHW Cross Polylink conductors inside. (Conduit and conductor size as shown on plan sheets). Extend conduit beyond edge of pavement to pull boxes. Run one (1) No. 6 AWG Copper Bond Conductor (RHW Green Insulation) inside conduit with other conductors.

Existing conduit and conductor(s) to be removed

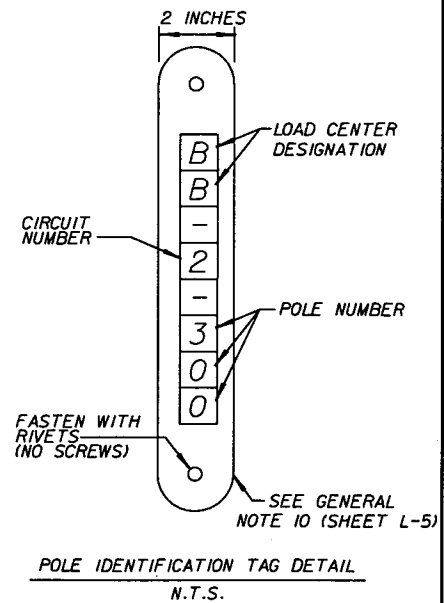
Proposed Load Center

Existing Load Center To Be Reused

Pull box

PAY ITEM NOTES

- ITEM 715-14-11: INCLUDES ADDITIONAL PULL BOX SIZE TO ALLOW FOR 90 DEGREE STUB-UPS, SWEEPS, ETC., AT NO ADDITIONAL COST.
- ITEM 715-4-600: THE REMOVED LIGHT POLES AND LUMINAIRES MAY BE USED FOR THE TEMPORARY LIGHTING. ONCE THE PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL, THEN THE REMOVED LIGHT POLES AND LUMINAIRES SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF BY THE CONTRACTOR. SEE LIGHTING GENERAL NOTE NO. 29. REMOVE LIGHT POLE FOUNDATION UNDER THIS PAY ITEM.
- ITEM 715-1-60: INCLUDES THE REMOVAL AND DISPOSAL OF CONDUIT. REMOVE THE CONDUIT IN THE EXCAVATION OR DEMOLITION AREAS OTHERWISE LEAVE THE OUT OF SERVICE CONDUIT IN PLACE. REMOVAL OF PULL BOXES SHALL BE PAID UNDER THIS ITEM. TABULATIONS PROVIDE LINEAR DISTANCE OF CONDUIT CONTAINING CONDUCTORS FOR REMOVAL. CONDUCTOR COUNT AND SIZE PER CONDUIT ARE NOT PROVIDED. ALL OUT OF SERVICE ROADWAY LIGHTING FACILITIES INCLUDING CONDUITS, CONDUCTORS, PULL BOXES, AND ALL OTHER COMPONENTS THAT ARE REMOVED FROM WITHIN THE PROJECT LIMITS SHALL BE PAID AS PART OF THIS PAY ITEM EXCEPT LIGHT POLE ASSEMBLY AND FOUNDATION.



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



URS Corporation Southern
 7650 West Courtney
 Campbell Causeway
 Tampa, FL 33607-1462
 Certificate of Authorization No. 00000002
 Shahzad Ahmed, P.E. No. 68863

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

POLE DATA, LEGEND AND PAY ITEM NOTES

SHEET NO.
L-6

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

Rev 3 10-7-11

POLE DATA

CONVENTIONAL LIGHTING DESIGN CRITERIA




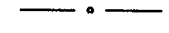

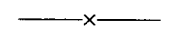



Average Initial Intensity 1.5 Foot Candles
 Uniformity Ratio Avg./Min. 4:1 Or Less
 Max./Min. 10:1 Or Less
 Wind Speed 130 MPH

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK FROM EDGE OF PAVEMENT	PAY ITEM
1	C-1	1056+60.00, LT.	15'	400	45'	20'	715-4-122
2		1058+70.00, LT.	15'	400	45'	16'	715-4-122
3		1061+15.00, LT.	15'	400	45'	20'	715-4-122
4		1063+50.00, LT.	15'	400	45'	20'	715-4-122
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7	C-III	1071+00.00, LT.	15'	400	45'	20'	715-4-122
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13		1085+85.00, LT.	15'	400	45'	20'	715-4-122
14		1088+25.00, LT.	15'	400	45'	20'	715-4-122
15	C-II	1056+60.00, RT.	15'	400	45'	20'	715-4-122
16		1058+70.00, RT.	15'	400	45'	20'	715-4-122
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41		1121+80.00, LT.	15'	400	45'	10'	715-4-122
42		1123+75.00, LT.	15'	400	45'	10'	715-4-122
43		1125+60.00, LT.	15'	400	45'	8'	715-4-122
44	A-IV	1090+75.00, RT.	15'	400	45'	20'	715-4-122
45		1093+43.00, RT.	15'	400	45'	20'	715-4-122
46		1096+11.00, RT.	15'	400	45'	20'	715-4-122
47		1098+80.00, RT.	15'	400	45'	20'	715-4-122
48		1101+55.00, RT.	15'	400	45'	20'	715-4-122
49		1104+30.00, RT.	15'	400	45'	20'	715-4-122
50		1106+80.00, RT.	15'	400	45'	20'	715-4-122

LEGEND

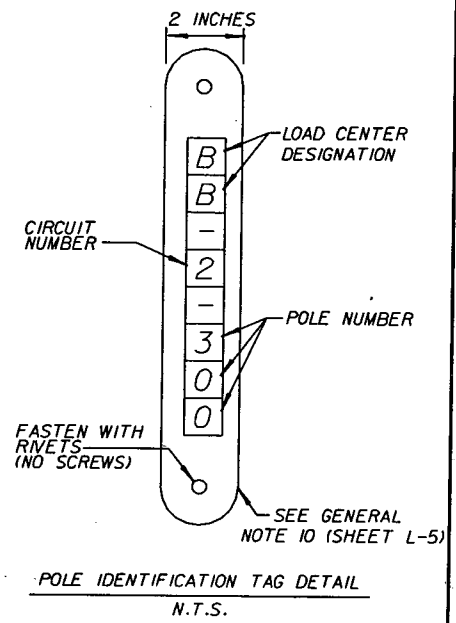
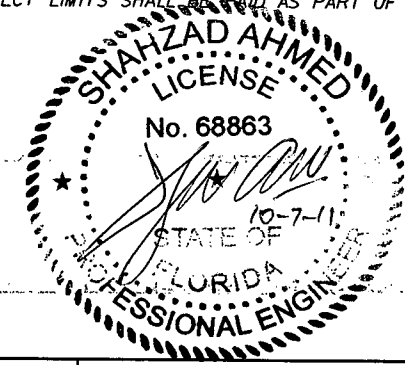
SYMBOLS

DESCRIPTION

-  Pole, Arm, and Luminaire. 400 watt high pressure sodium luminaire. Designed for Medium cutoff Type III distribution. Integral regulator type ballast wired for 480 volt operation. Pole mounting height 45 ft. Use GE curve 451002 or equal. Lamp shall produce a minimum of 51000 initial lumens. Symbol includes a pull box and pole cable distribution system.
-  Existing pole and luminaire to remain
-  Existing pole and luminaire to be removed
-  Schedule 40 PVC conduit with RHW Cross Polylink conductors inside (conduit and conductor size as shown on plan sheets)
-  Size 2" HDPE conduit or equal, Directional Bored under pavement with RHW Cross Polylink conductors inside. (Conduit and conductor size as shown on plan sheets). Extend conduit beyond edge of pavement to pull boxes. Run one (1) No. 6 AWG Copper Bond Conductor (RHW Green Insulation) inside conduit with other conductors.
-  Existing conduit and conductor(s) to be removed
-  Proposed Load Center
-  Existing Load Center To Be Reused
-  Pull box

PAY ITEM NOTES

- ITEM 715-14-11: INCLUDES ADDITIONAL PULL BOX SIZE TO ALLOW FOR 90 DEGREE STUB-UPS, SWEEPS, ETC., AT NO ADDITIONAL COST.
- ITEM 715-4-600: THE REMOVED LIGHT POLES AND LUMINAIRES MAY BE USED FOR THE TEMPORARY LIGHTING. ONCE THE PERMANENT LIGHTING IS INSTALLED AND OPERATIONAL, THEN THE REMOVED LIGHT POLES AND LUMINAIRES SHALL BE REMOVED FROM THE JOB SITE AND DISPOSED OF BY THE CONTRACTOR. SEE LIGHTING GENERAL NOTE NO. 29. REMOVE LIGHT POLE FOUNDATION UNDER THIS PAY ITEM.
- ITEM 715-1-60: INCLUDES THE REMOVAL AND DISPOSAL OF CONDUIT. REMOVE THE CONDUIT IN THE EXCAVATION OR DEMOLITION AREAS OTHERWISE LEAVE THE OUT OF SERVICE CONDUIT IN PLACE. REMOVAL OF PULL BOXES SHALL BE PAID UNDER THIS ITEM. TABULATIONS PROVIDE LINEAR DISTANCE OF CONDUIT CONTAINING CONDUCTORS FOR REMOVAL. CONDUCTOR COUNT AND SIZE PER CONDUIT ARE NOT PROVIDED. ALL OUT OF SERVICE ROADWAY LIGHTING FACILITIES INCLUDING CONDUITS, CONDUCTORS, PULL BOXES, AND ALL OTHER COMPONENTS THAT ARE REMOVED FROM WITHIN THE PROJECT LIMITS SHALL BE PAID AS PART OF THIS PAY ITEM EXCEPT LIGHT POLE ASSEMBLY AND FOUNDATION.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
10/7/11	SA	REVISD LIGHT POLE LOCATION.			

URS
 URS Corporation Southern
 7650 West Courtney
 Campbell Causeway
 Tampa, FL 33607-1462
 Certificate of Authorization No. 00000002
 Shahzad Ahmed, P.E. No. 68863

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

**POLE DATA, LEGEND AND
PAY ITEM NOTES**

SHEET NO.
L-6

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POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK FROM EDGE OF PAVEMENT	PAY ITEM
51	A-IV	1109+30.00, RT.	15'	400	45'	20'	715-4-122
52		1111+80.00, RT.	15'	400	45'	20'	715-4-122
53		1114+30.00, RT.	15'	400	45'	20'	715-4-122
54		1116+80.00, RT.	15'	400	45'	20'	715-4-122
55		1119+30.00, RT.	15'	400	45'	20'	715-4-122
56		1121+80.00, RT.	15'	400	45'	10'	715-4-122
57		1123+75.00, RT.	15'	400	45'	10'	715-4-122
58		1126+00.00, RT.	15'	400	45'	10'	715-4-122
59	B-I	1128+50.00, LT.	15'	400	45'	10'	715-4-122
60		1131+00.00, LT.	15'	400	45'	10'	715-4-122
61		1133+60.00, LT.	15'	400	45'	10'	715-4-122
62		1135+90.00, LT.	15'	400	45'	10'	715-4-122
63		1138+50.00, LT.	15'	400	45'	10'	715-4-122
64		1140+40.00, LT.	15'	400	45'	10'	715-4-122
65		1142+50.00, LT.	15'	400	45'	20'	715-4-122
66		1144+50.00, LT.	15'	400	45'	20'	715-4-122
67		1147+00.00, LT.	15'	400	45'	20'	715-4-122
68		1149+50.00, LT.	15'	400	45'	20'	715-4-122
69		1152+00.00, LT.	15'	400	45'	20'	715-4-122
70		1154+50.00, LT.	15'	400	45'	20'	715-4-122
71		1157+00.00, LT.	15'	400	45'	20'	715-4-122
72		1159+50.00, LT.	15'	400	45'	20'	715-4-122
73		1162+00.00, LT.	15'	400	45'	20'	715-4-122
74	B-II	1128+50.00, RT.	15'	400	45'	10'	715-4-122
75		1131+00.00, RT.	15'	400	45'	10'	715-4-122
76		1133+60.00, RT.	15'	400	45'	10'	715-4-122
77		1136+00.00, RT.	15'	400	45'	7'	715-4-122
78		1138+50.00, RT.	15'	400	45'	10'	715-4-122
79		1140+40.00, RT.	15'	400	45'	10'	715-4-122
80		1142+50.00, RT.	15'	400	45'	20'	715-4-122
81		1144+50.00, RT.	15'	400	45'	20'	715-4-122
82		1147+00.00, RT.	15'	400	45'	20'	715-4-122
83		1149+50.00, RT.	15'	400	45'	20'	715-4-122
84		1152+00.00, RT.	15'	400	45'	20'	715-4-122
85		1154+50.00, RT.	15'	400	45'	20'	715-4-122
86		1157+00.00, RT.	15'	400	45'	20'	715-4-122
87		1159+50.00, RT.	15'	400	45'	20'	715-4-122
88		1162+00.00, RT.	15'	400	45'	20'	715-4-122
89	B-III	1164+50.00, LT.	15'	400	45'	20'	715-4-122
90		1166+80.00, LT.	15'	400	45'	20'	715-4-122
91		1169+10.00, LT.	15'	400	45'	20'	715-4-122
92		1171+50.00, LT.	15'	400	45'	20'	715-4-122
93		1174+00.00, LT.	15'	400	45'	20'	715-4-122
94		1176+55.00, LT.	15'	400	45'	20'	715-4-122
95		1179+15.00, LT.	15'	400	45'	20'	715-4-122
96		1181+55.00, LT.	15'	400	45'	20'	715-4-122
97		1184+00.00, LT.	15'	400	45'	20'	715-4-122
98		1186+50.00, LT.	15'	400	45'	20'	715-4-122
99		1189+20.00, LT.	15'	400	45'	20'	715-4-122
100		1191+70.00, LT.	15'	400	45'	20'	715-4-122

POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK FROM EDGE OF PAVEMENT	PAY ITEM
101	B-III	1194+00.00, LT.	15'	400	45'	20'	715-4-122
102		1196+50.00, LT.	15'	400	45'	20'	715-4-122
103		1198+90.00, LT.	15'	400	45'	20'	715-4-122
104		1201+30.00, LT.	15'	400	45'	20'	715-4-122
105	B-IV	1164+50.00, RT.	15'	400	45'	20'	715-4-122
106		1166+80.00, RT.	15'	400	45'	20'	715-4-122
107		1169+10.00, RT.	15'	400	45'	20'	715-4-122
108		1171+50.00, RT.	15'	400	45'	20'	715-4-122
109		1174+55.00, RT.	15'	400	45'	20'	715-4-122
110		1176+50.00, RT.	15'	400	45'	20'	715-4-122
111		1179+15.00, RT.	15'	400	45'	20'	715-4-122
112		1181+78.00, RT.	15'	400	45'	14'	715-4-122
113		1184+18.00, RT.	15'	400	45'	20'	715-4-122
114		1186+70.00, RT.	15'	400	45'	20'	715-4-122
115		1189+20.00, RT.	15'	400	45'	20'	715-4-122
116		1191+70.00, RT.	15'	400	45'	20'	715-4-122
117		1194+00.00, RT.	15'	400	45'	20'	715-4-122
118		1196+50.00, RT.	15'	400	45'	20'	715-4-122
119		1198+90.00, RT.	15'	400	45'	20'	715-4-122
120		1201+30.00, RT.	15'	400	45'	20'	715-4-122

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
Certificate of Authorization No. 00000002
Shahzad Ahmed, P.E. No. 68863

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

POLE DATA

SHEET NO.

L-7

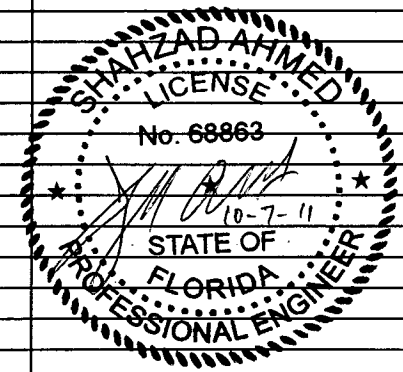
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 66B5-23.003, F.A.C.

POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK FROM EDGE OF PAVEMENT	PAY ITEM
51	A-IV	1109+30.00, RT.	15'	400	45'	20'	715-4-122
52		1111+80.00, RT.	15'	400	45'	20'	715-4-122
53		1114+30.00, RT.	15'	400	45'	20'	715-4-122
54		1116+80.00, RT.	15'	400	45'	20'	715-4-122
55		1119+30.00, RT.	15'	400	45'	20'	715-4-122
56		1121+80.00, RT.	15'	400	45'	10'	715-4-122
57		1123+75.00, RT.	15'	400	45'	10'	715-4-122
58		1126+00.00, RT.	15'	400	45'	10'	715-4-122
59	B-I	1128+30.00, LT.	15'	400	45'	10'	715-4-122
60		1131+00.00, LT.	15'	400	45'	10'	715-4-122
61		1133+60.00, LT.	15'	400	45'	10'	715-4-122
62		1135+90.00, LT.	15'	400	45'	10'	715-4-122
63		1138+50.00, LT.	15'	400	45'	10'	715-4-122
64		1140+40.00, LT.	15'	400	45'	10'	715-4-122
65		1142+50.00, LT.	15'	400	45'	20'	715-4-122
66		1144+50.00, LT.	15'	400	45'	20'	715-4-122
67		1147+00.00, LT.	15'	400	45'	20'	715-4-122
68		1149+50.00, LT.	15'	400	45'	20'	715-4-122
69		1152+00.00, LT.	15'	400	45'	20'	715-4-122
70		1154+50.00, LT.	15'	400	45'	20'	715-4-122
71		1157+00.00, LT.	15'	400	45'	20'	715-4-122
72		1159+50.00, LT.	15'	400	45'	20'	715-4-122
73		1162+00.00, LT.	15'	400	45'	20'	715-4-122
74	B-II	1128+50.00, RT.	15'	400	45'	10'	715-4-122
75		1131+00.00, RT.	15'	400	45'	10'	715-4-122
76		1133+60.00, RT.	15'	400	45'	10'	715-4-122
77		1136+00.00, RT.	15'	400	45'	7'	715-4-122
78		1138+50.00, RT.	15'	400	45'	10'	715-4-122
79		1140+40.00, RT.	15'	400	45'	10'	715-4-122
80		1142+50.00, RT.	15'	400	45'	20'	715-4-122
81		1144+50.00, RT.	15'	400	45'	20'	715-4-122
82		1147+00.00, RT.	15'	400	45'	20'	715-4-122
83		1149+50.00, RT.	15'	400	45'	20'	715-4-122
84		1152+00.00, RT.	15'	400	45'	20'	715-4-122
85		1154+50.00, RT.	15'	400	45'	20'	715-4-122
86		1157+00.00, RT.	15'	400	45'	20'	715-4-122
87		1159+50.00, RT.	15'	400	45'	20'	715-4-122
88		1162+00.00, RT.	15'	400	45'	20'	715-4-122
89	B-III	1164+50.00, LT.	15'	400	45'	20'	715-4-122
90		1166+80.00, LT.	15'	400	45'	20'	715-4-122
91		1169+10.00, LT.	15'	400	45'	20'	715-4-122
92		1171+50.00, LT.	15'	400	45'	20'	715-4-122
93		1174+00.00, LT.	15'	400	45'	20'	715-4-122
94		1176+55.00, LT.	15'	400	45'	20'	715-4-122
95		1179+15.00, LT.	15'	400	45'	20'	715-4-122
96		1181+55.00, LT.	15'	400	45'	20'	715-4-122
97		1184+00.00, LT.	15'	400	45'	20'	715-4-122
98		1186+50.00, LT.	15'	400	45'	20'	715-4-122
99		1189+20.00, LT.	15'	400	45'	20'	715-4-122
100		1191+70.00, LT.	15'	400	45'	20'	715-4-122

POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK FROM EDGE OF PAVEMENT	PAY ITEM
101	B-III	1194+00.00, LT.	15'	400	45'	20'	715-4-122
102		1196+50.00, LT.	15'	400	45'	20'	715-4-122
103		1198+90.00, LT.	15'	400	45'	20'	715-4-122
104		1201+30.00, LT.	15'	400	45'	20'	715-4-122
105	B-IV	1164+50.00, RT.	15'	400	45'	20'	715-4-122
106		1166+80.00, RT.	15'	400	45'	20'	715-4-122
107		1169+10.00, RT.	15'	400	45'	20'	715-4-122
108		1171+50.00, RT.	15'	400	45'	20'	715-4-122
109		1174+55.00, RT.	15'	400	45'	20'	715-4-122
110		1176+30.00, RT.	15'	400	45'	20'	715-4-122
111		1179+15.00, RT.	15'	400	45'	20'	715-4-122
112		1181+78.00, RT.	15'	400	45'	14'	715-4-122
113		1184+18.00, RT.	15'	400	45'	20'	715-4-122
114		1186+70.00, RT.	15'	400	45'	20'	715-4-122
115		1189+20.00, RT.	15'	400	45'	20'	715-4-122
116		1191+70.00, RT.	15'	400	45'	20'	715-4-122
117		1194+00.00, RT.	15'	400	45'	20'	715-4-122
118		1196+50.00, RT.	15'	400	45'	20'	715-4-122
119		1198+90.00, RT.	15'	400	45'	20'	715-4-122
120		1201+30.00, RT.	15'	400	45'	20'	715-4-122



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
10/7/11	SA	REVISED LIGHT POLE LOCATION.			

URS
 URS Corporation Southern
 7650 West Courtney
 Campbell Causeway
 Tampa, FL 33607-1462
 Certificate of Authorization No. 00000002
 Shahzad Ahmed, P.E. No. 68863

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

POLE DATA		SHEET NO.
		L-7

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

POLE DATA

POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK FROM EDGE OF PAVEMENT	PAY ITEM
51	A-IV	1109+30.00, RT.	15'	400	45'	20'	715-4-122
52		1111+80.00, RT.	15'	400	45'	20'	715-4-122
53		1114+30.00, RT.	15'	400	45'	20'	715-4-122
54		1116+80.00, RT.	15'	400	45'	20'	715-4-122
55		1119+30.00, RT.	15'	400	45'	20'	715-4-122
56		1121+80.00, RT.	15'	400	45'	10'	715-4-122
57		1123+75.00, RT.	15'	400	45'	10'	715-4-122
58		1126+00.00, RT.	15'	400	45'	10'	715-4-122
59	B-I	1128+30.00, LT.	15'	400	45'	10'	715-4-122
60		1131+00.00, LT. 1130+97, LT.	15'	400	45'	10'	715-4-122
61		1133+60.00, LT. (20° TILT)	15'	400	45'	10' 3'	715-4-122
62		1135+90.00, LT. (20° TILT)	15'	400	45'	10' 3'	715-4-122
63		1138+50.00, LT.	15'	400	45'	10'	715-4-122
64		1140+40.00, LT.	15'	400	45'	10'	715-4-122
65		1142+50.00, LT.	15'	400	45'	20'	715-4-122
66		1144+50.00, LT.	15'	400	45'	20'	715-4-122
67		1147+00.00, LT.	15'	400	45'	20'	715-4-122
68		1149+50.00, LT.	15'	400	45'	20'	715-4-122
69		1152+00.00, LT.	15'	400	45'	20'	715-4-122
70		1154+50.00, LT.	15'	400	45'	20'	715-4-122
71		1157+00.00, LT.	15'	400	45'	20'	715-4-122
72		1159+50.00, LT.	15'	400	45'	20'	715-4-122
73		1162+00.00, LT.	15'	400	45'	20'	715-4-122
74	A-IV	1128+50.00, RT.	15'	400	45'	10'	715-4-122
75	A-IV	1130+30.00, RT.	15'	400	45'	14'	715-4-122
77	B-II	1137+15.00, RT.	15'	400	45'	7'	715-4-122
78		1138+50.00, RT.	15'	400	45'	10'	715-4-122
79		1140+40.00, RT.	15'	400	45'	10'	715-4-122
80		1142+50.00, RT.	15'	400	45'	20'	715-4-122
81		1144+50.00, RT.	15'	400	45'	20'	715-4-122
82		1147+00.00, RT.	15'	400	45'	20'	715-4-122
83		1149+50.00, RT.	15'	400	45'	20'	715-4-122
84		1152+00.00, RT.	15'	400	45'	20'	715-4-122
85		1154+50.00, RT.	15'	400	45'	20'	715-4-122
86		1157+00.00, RT.	15'	400	45'	20'	715-4-122
87		1159+50.00, RT.	15'	400	45'	20'	715-4-122
88		1162+00.00, RT.	15'	400	45'	20'	715-4-122
89	B-III	1164+50.00, LT.	15'	400	45'	20'	715-4-122
90		1166+80.00, LT.	15'	400	45'	20'	715-4-122
91		1169+10.00, LT.	15'	400	45'	20'	715-4-122
92		1171+50.00, LT.	15'	400	45'	20'	715-4-122
93		1174+00.00, LT.	15'	400	45'	20'	715-4-122
94		1176+55.00, LT.	15'	400	45'	20'	715-4-122
95		1179+15.00, LT.	15'	400	45'	20'	715-4-122
96		1181+55.00, LT.	15'	400	45'	20'	715-4-122
97		1184+00.00, LT. 1184+18, LT.	15'	400	45'	20'	715-4-122
98		1186+50.00, LT.	15'	400	45'	20'	715-4-122
99		1189+20.00, LT.	15'	400	45'	20'	715-4-122
100		1191+70.00, LT.	15'	400	45'	20'	715-4-122

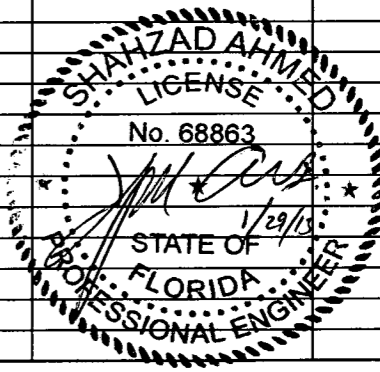
RFL A026

RFL 8020

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK FROM EDGE OF PAVEMENT	PAY ITEM
101	B-III	1194+00.00, LT.	15'	400	45'	20'	715-4-122
102		1196+50.00, LT.	15'	400	45'	20'	715-4-122
103		1198+90.00, LT.	15'	400	45'	20'	715-4-122
104		1201+30.00, LT.	15'	400	45'	20'	715-4-122
105	B-IV	1164+50.00, RT.	15'	400	45'	20'	715-4-122
106		1166+80.00, RT.	15'	400	45'	20'	715-4-122
107		1169+10.00, RT.	15'	400	45'	20'	715-4-122
108		1171+50.00, RT. 1171+10, RT.	15'	400	45'	20'	715-4-122
109		1174+55.00, RT.	15'	400	45'	20'	715-4-122
110		1176+30.00, RT.	15'	400	45'	20'	715-4-122
111		1179+15.00, RT.	15'	400	45'	20'	715-4-122
112		1181+78.00, RT.	15'	400	45'	14'	715-4-122
113		1184+18.00, RT.	15'	400	45'	20'	715-4-122
114		1186+70.00, RT.	15'	400	45'	20'	715-4-122
115		1189+20.00, RT.	15'	400	45'	20'	715-4-122
116		1191+70.00, RT.	15'	400	45'	20'	715-4-122
117		1194+00.00, RT.	15'	400	45'	20'	715-4-122
118		1196+50.00, RT.	15'	400	45'	20'	715-4-122
119		1198+90.00, RT.	15'	400	45'	20'	715-4-122
120		1201+30.00, RT.	15'	400	45'	20'	715-4-122
60A	B-I	1132+20.00, LT. (20° TILT)	15'	400	45'	10' 3'	715-4-122
61A	B-I	1134+80.00, LT. (20° TILT)	15'	400	45'	10' 3'	715-4-122

RFL 8020

RFL A026



NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G5-23.003, F.A.C.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
10/7/11	SA	REVISIED LIGHT POLE LOCATION.			
01/29/13	SA	REVISIED AND ADDED LIGHT POLE LOCATIONS.			

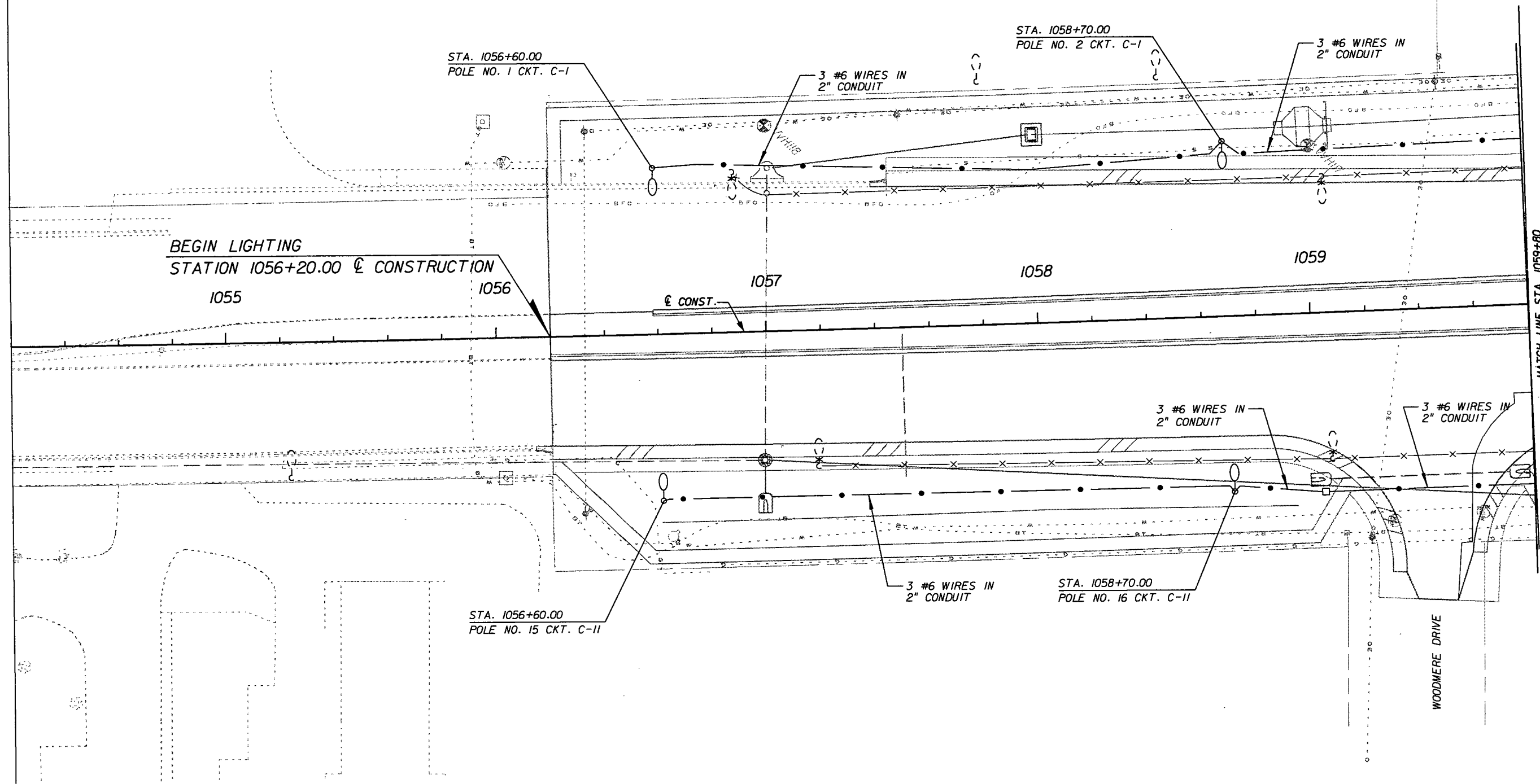
URS
 Certificate of Authorization No. 00000002
 Shahzad Ahmed, P.E. No. 68863

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

POLE DATA

SHEET NO.
L-7

1" = 40'



MATCH LINE STA. 1059+80

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

URS
 URS Corporation Southern
 7650 West Courtney
 Campbell Causeway
 Tampa, FL 33607-1462
 Certificate of Authorization No. 00000002
 Shahzad Ahmed, P.E. No. 68863

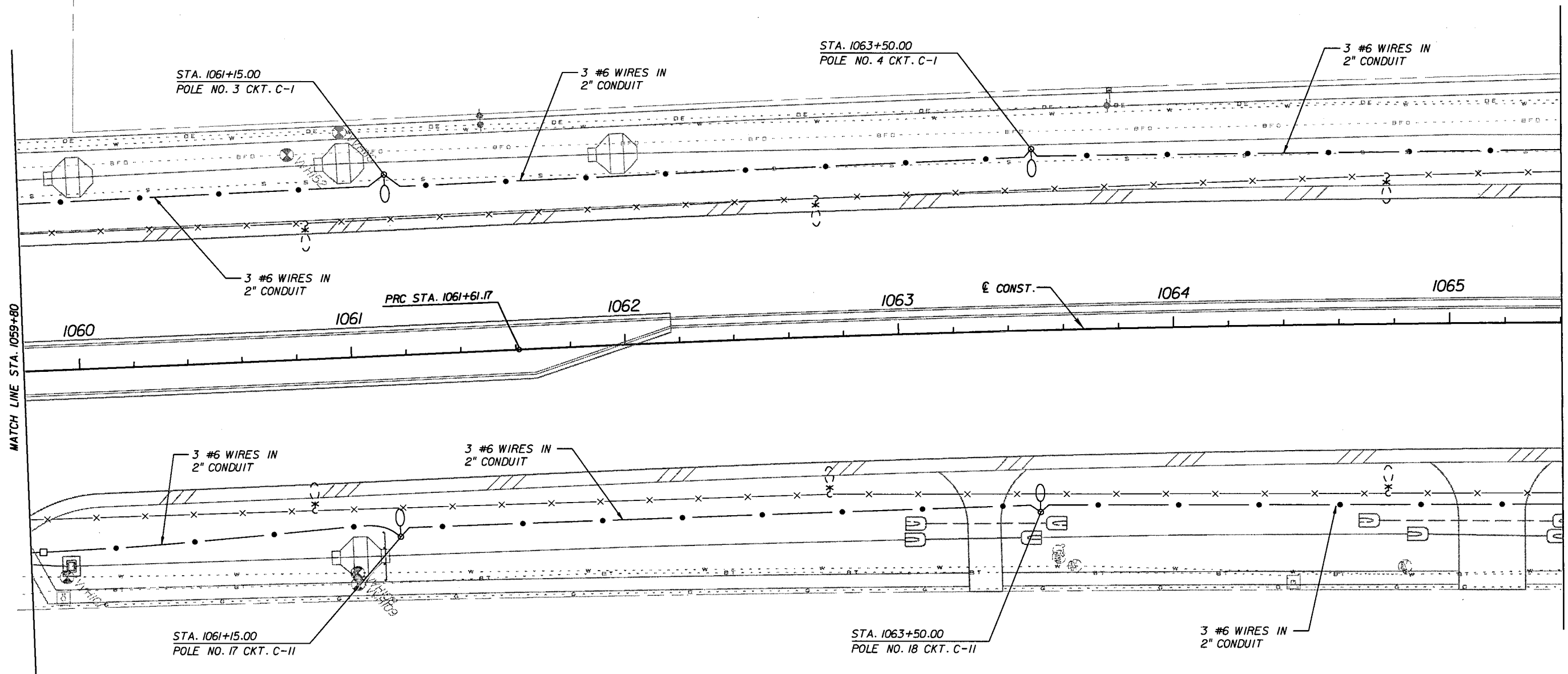
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-8

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6105-23.003, F.A.C.

1" = 40'



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

URS
 URS Corporation Southern
 7650 West Courtney
 Campbell Causeway
 Tampa, FL 33607-1462
 Certificate of Authorization No. 00000002
 Shahzad Ahmed, P.E. No. 68863

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-9

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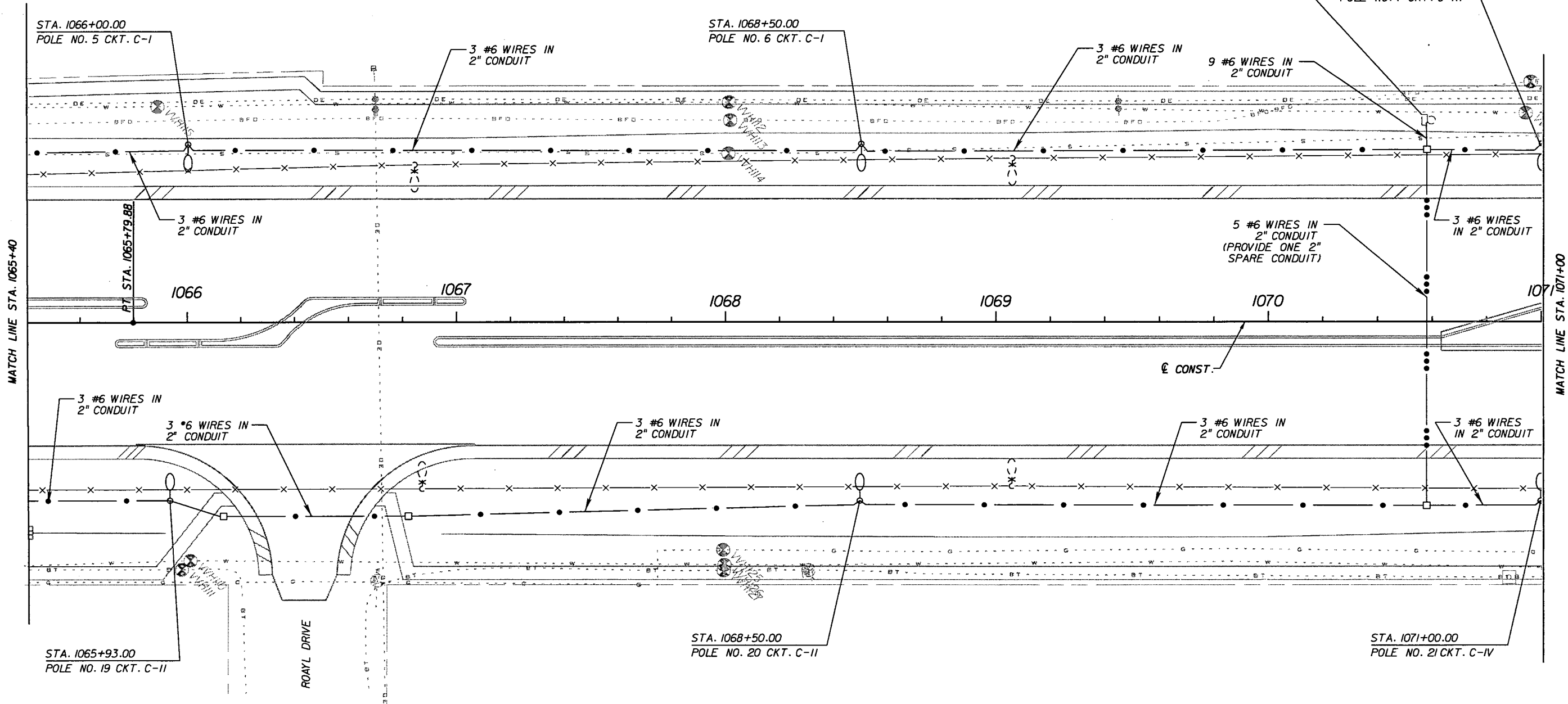
1" = 40'

STA. 1070+57, LT, LOAD CENTER "C"
 REUSE EXISTING LOAD CENTER
 EXISTING SERVICE 240/480V, 1 PHASE
 CIRCUIT C-I TO C-IV: 30A, 2P (EXISTING)
 EXISTING 100A, 2P MAIN CIRCUIT BREAKER

STA. 1071+00.00
 POLE NO. 7 CKT. C-III

STA. 1068+50.00
 POLE NO. 6 CKT. C-I

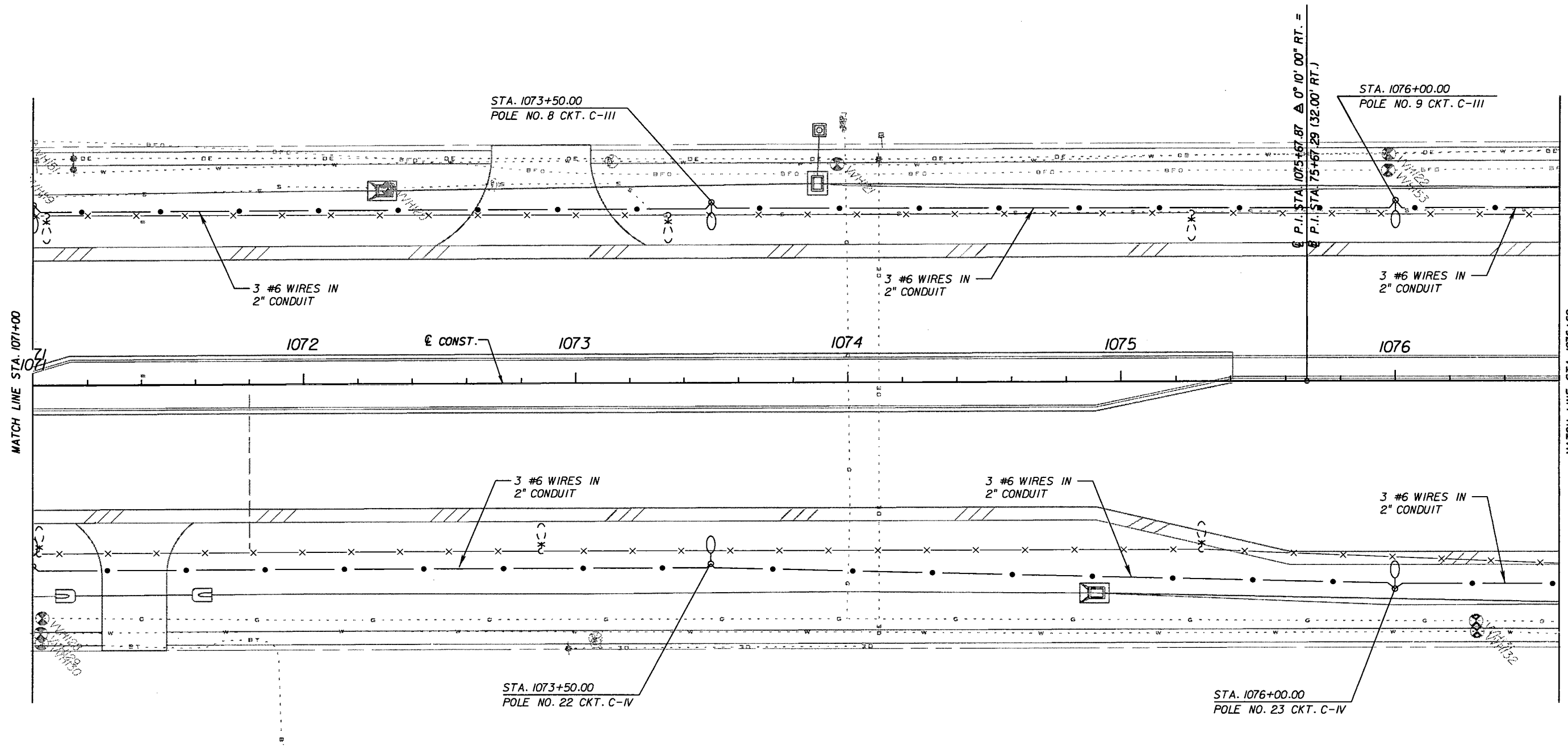
STA. 1066+00.00
 POLE NO. 5 CKT. C-I



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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-10
							25	HIGHLANDS	194485-1-52-01		

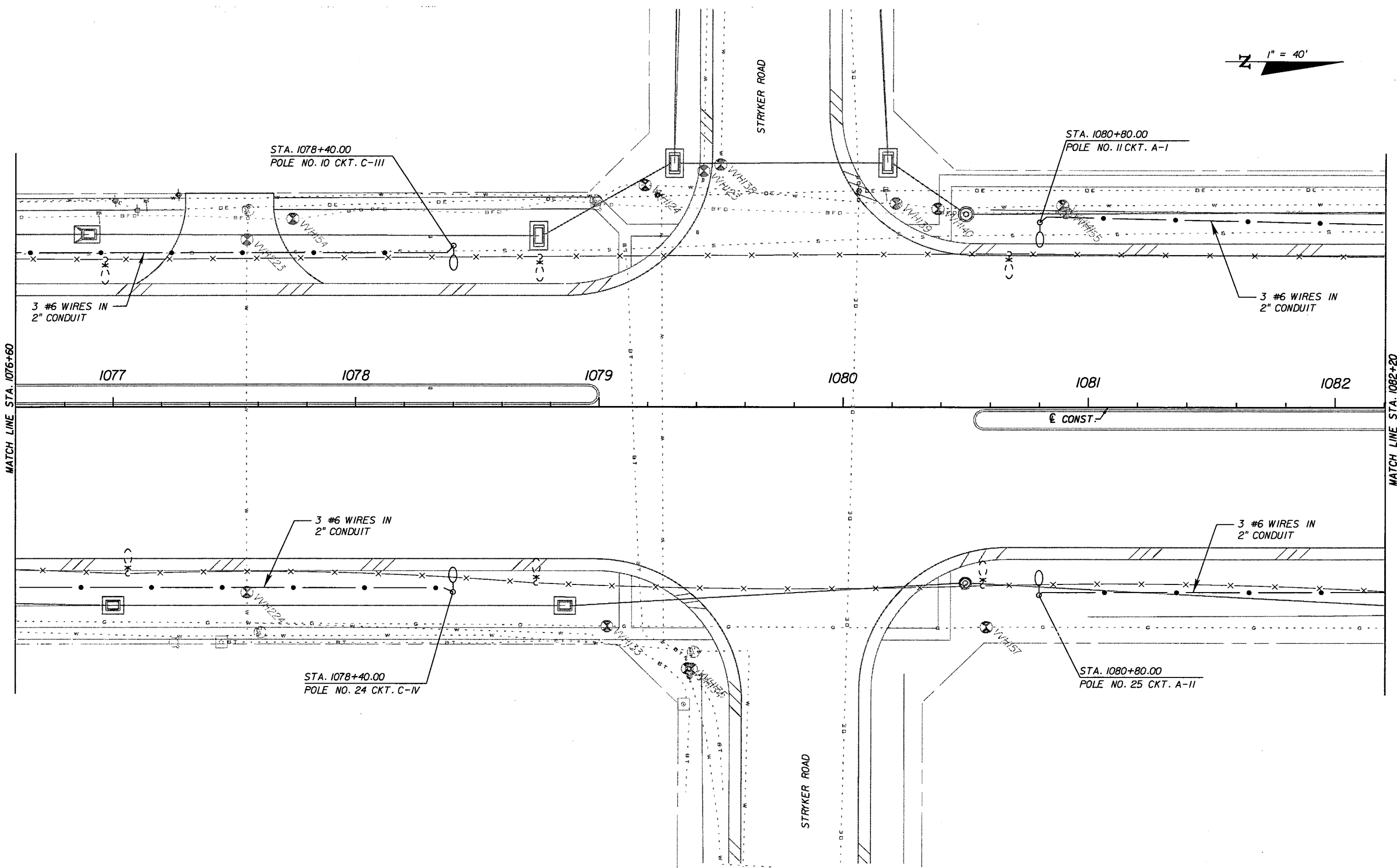
N 1" = 40'



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REVISIONS						URS URS Corporation Southern 7650 West Courtney Campbell Causeway Tampa, FL 33607-1462 Certificate of Authorization No. 00000002 Shahzad Ahmed, P.E. No. 68863	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		L-II
						25	HIGHLANDS	194485-1-52-01			

N 1" = 40'



MATCH LINE STA. 1076+60

MATCH LINE STA. 1082+20

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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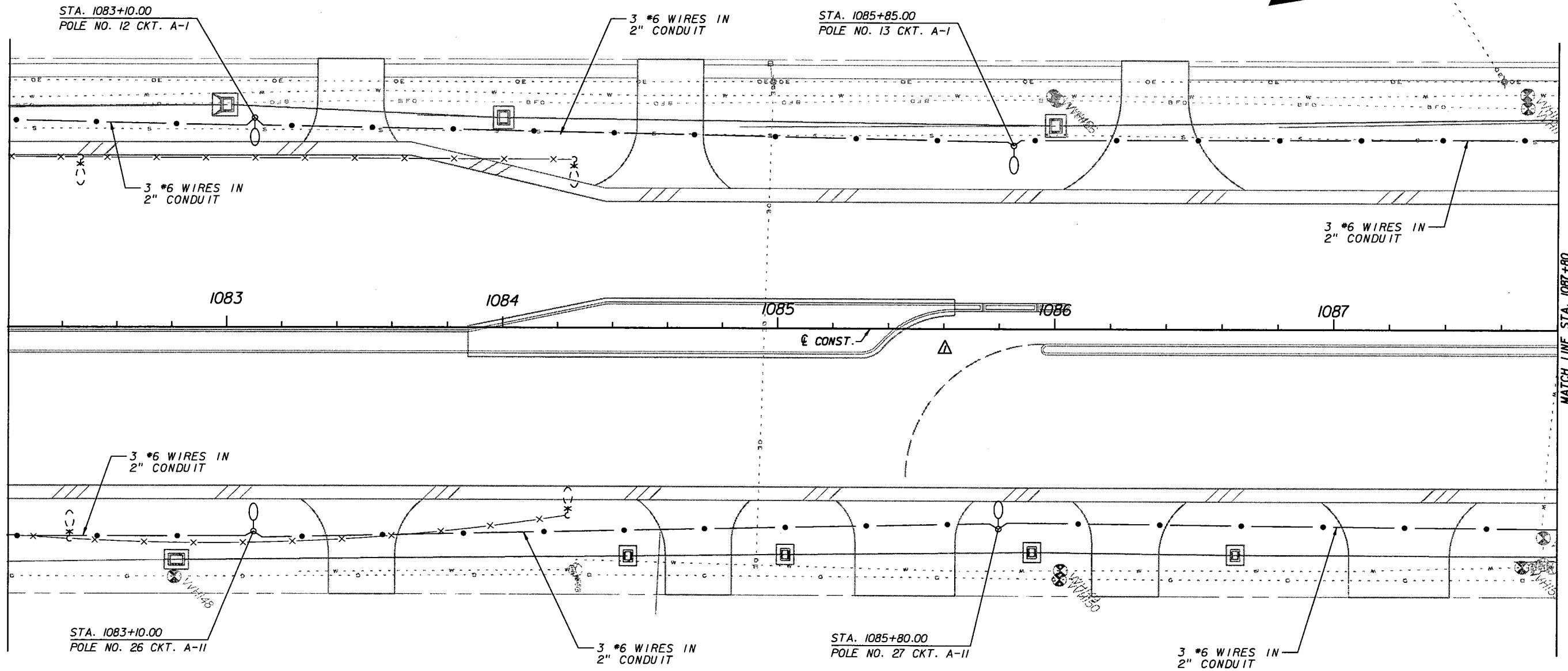
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-12

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1" = 40'



MATCH LINE STA. 1087+80

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	ADDED SB DIRECTIONAL MEDIAN OPENING.			

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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

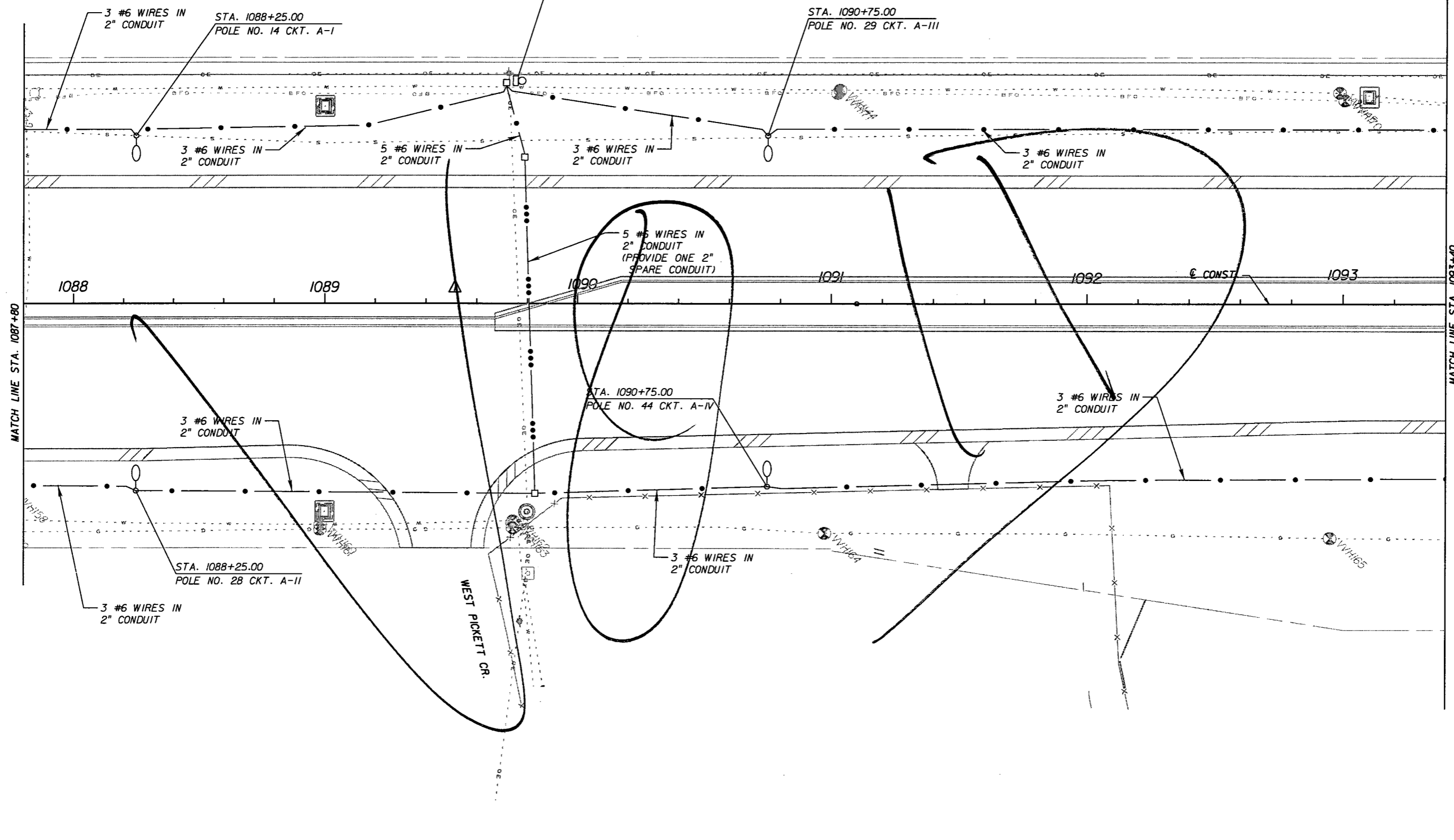
LIGHTING PLAN

SHEET NO.
L-13

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

STA. 1089+75, 90' LT, LOAD CENTER "A"
 240/480V, 1 PHASE, 3 WIRE
 UNDERGROUND SERVICE
 CIRCUIT A-1 TO A-IV: 30A, 2P CKT. BKRS
 100A, 2P MAIN CIRCUIT BREAKER

1" = 40'



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	REVISED MEDIAN.			

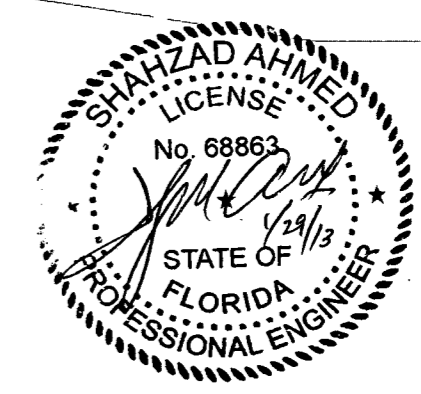
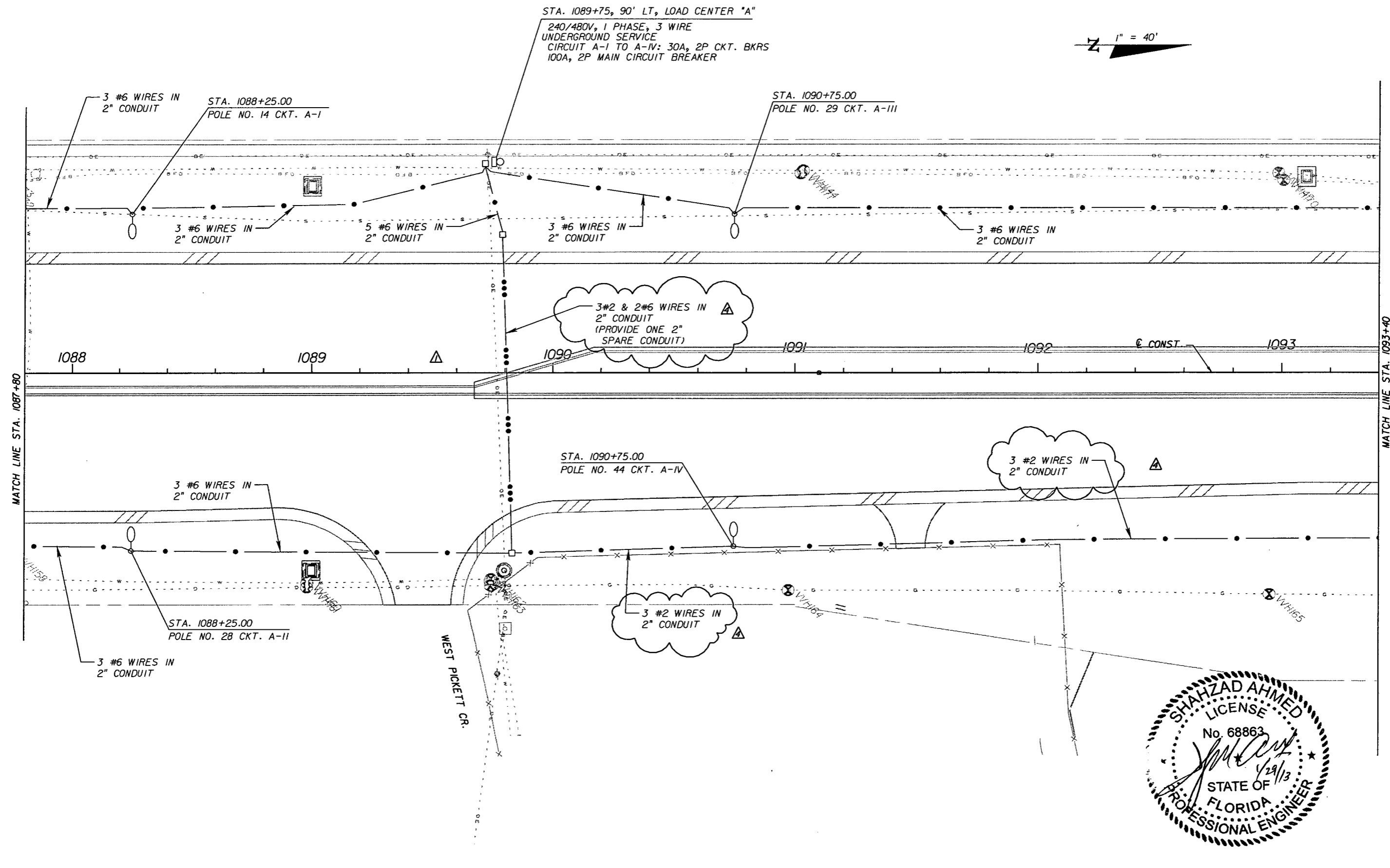
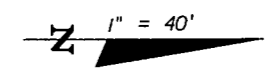
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-14

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	△ REVISED MEDIAN.			
01/29/13	SA	△ CONDUCTORS SIZE REVISED.			

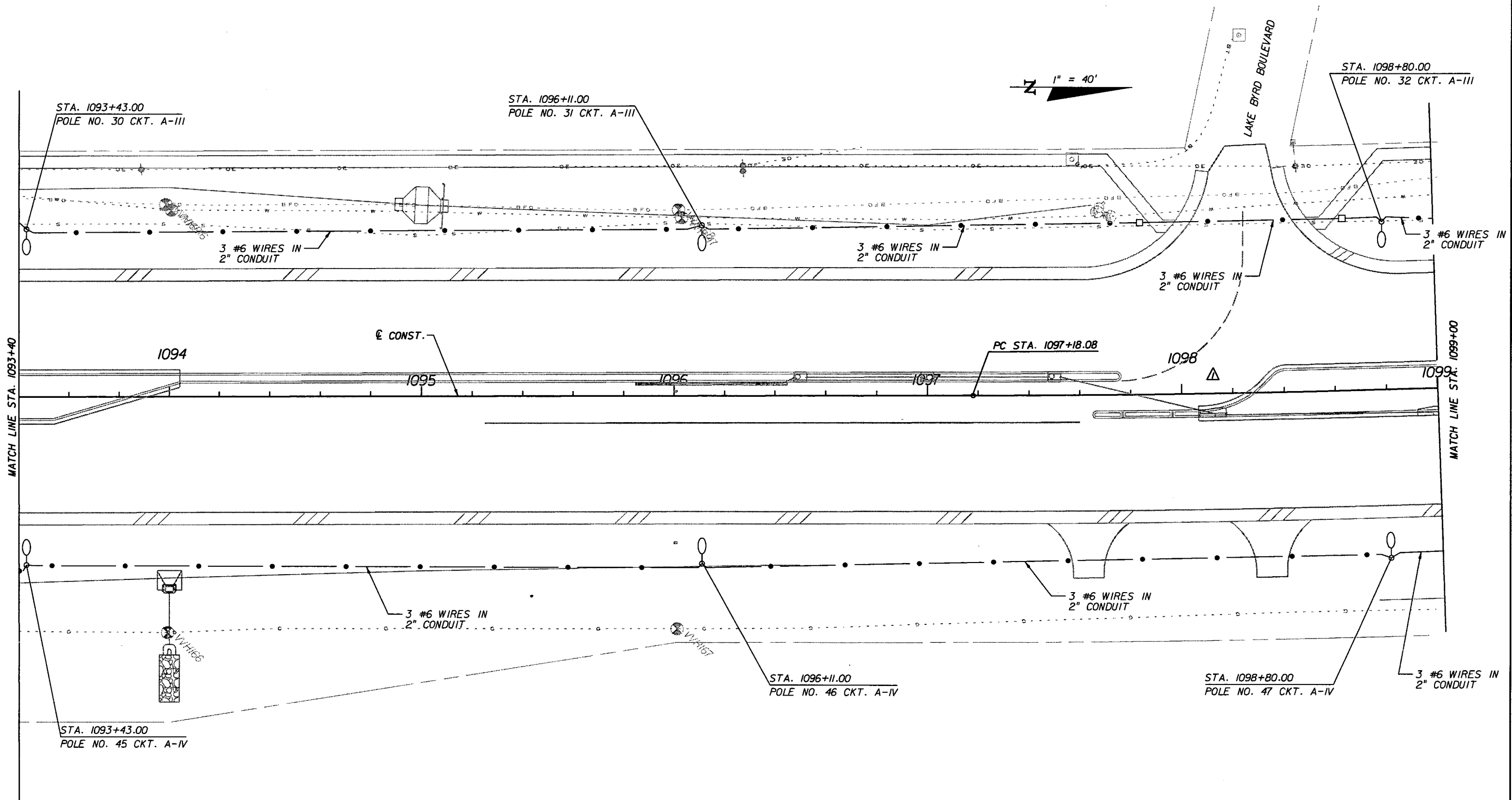
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-14

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



1" = 40'

MATCH LINE STA. 1093+40

MATCH LINE STA. 1099+00

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	ADDED NB DIRECTIONAL MEDIAN OPENING.			

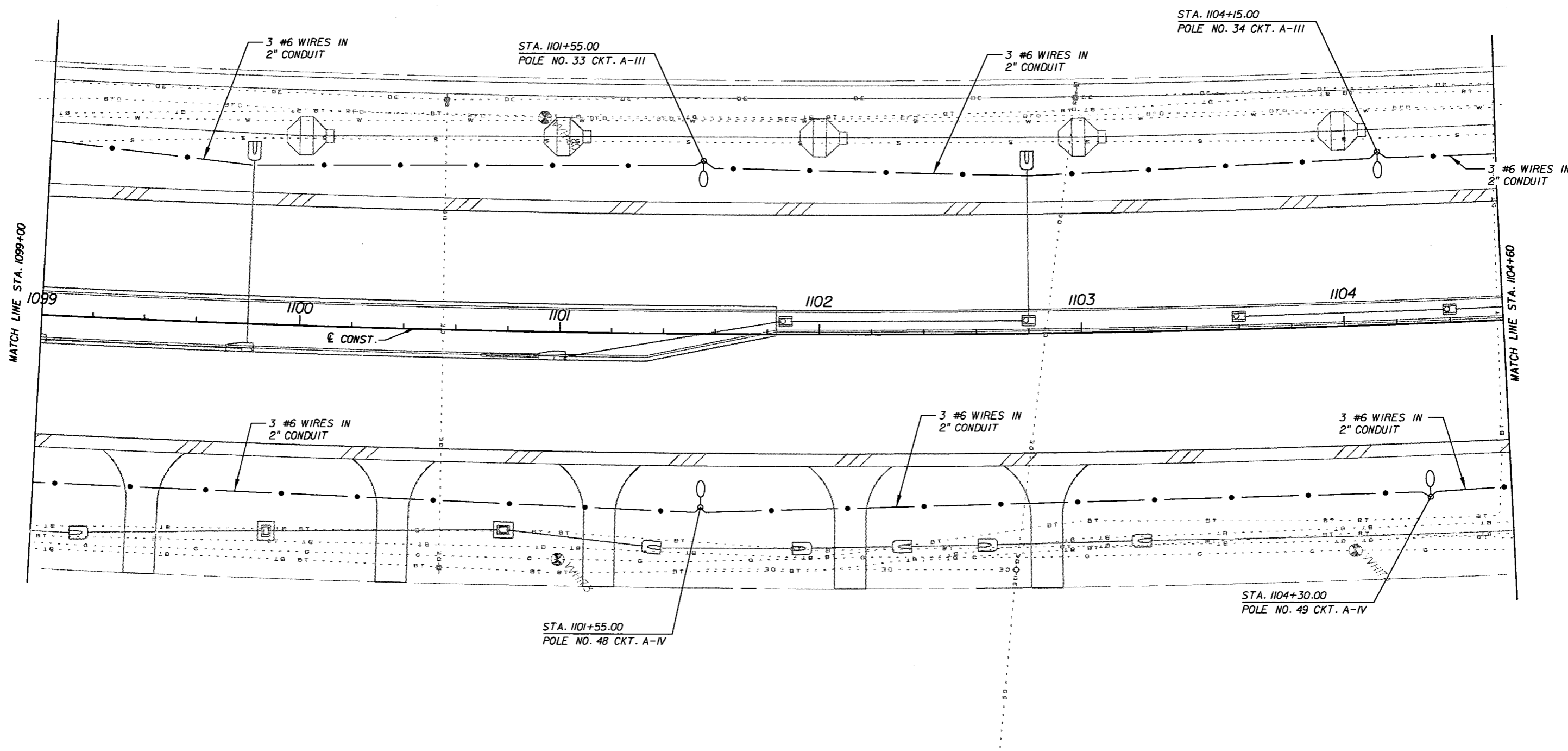
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-15

N
1" = 40'



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

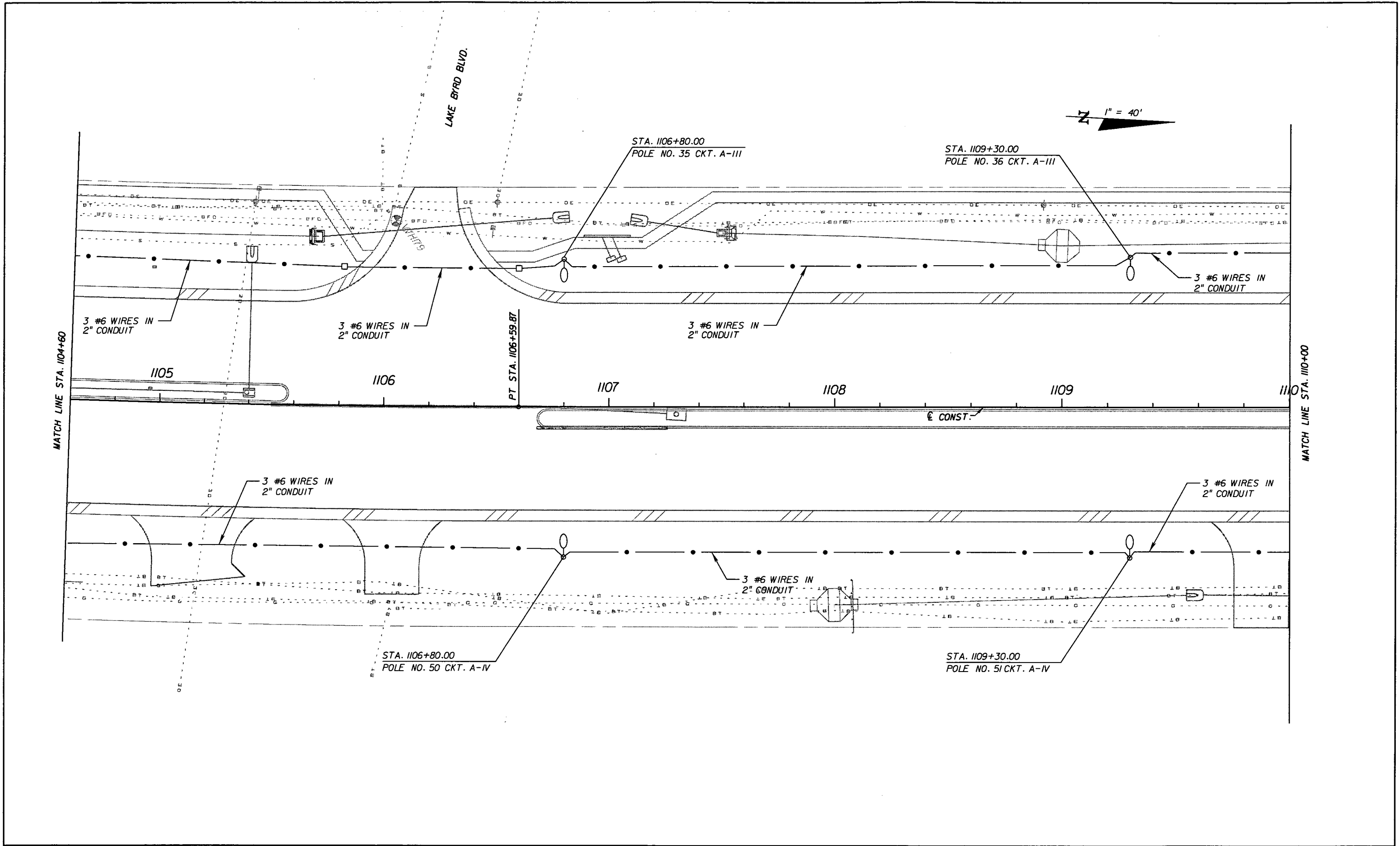
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-16

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61B5-23.003, F.A.C.



1" = 40'

MATCH LINE STA. 1104+60

MATCH LINE STA. 1109+00

LAKE BYRD BLVD.

STA. 1106+80.00
POLE NO. 35 CKT. A-III

STA. 1109+30.00
POLE NO. 36 CKT. A-III

3 #6 WIRES IN
2" CONDUIT

3 #6 WIRES IN
2" CONDUIT

3 #6 WIRES IN
2" CONDUIT

3 #6 WIRES IN
2" CONDUIT

1105

1106

1107

1108

1109

1110

PT. STA. 1106+59.87

CONST.

3 #6 WIRES IN
2" CONDUIT

3 #6 WIRES IN
2" CONDUIT

3 #6 WIRES IN
2" CONDUIT

STA. 1106+80.00
POLE NO. 50 CKT. A-IV

STA. 1109+30.00
POLE NO. 51 CKT. A-IV

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

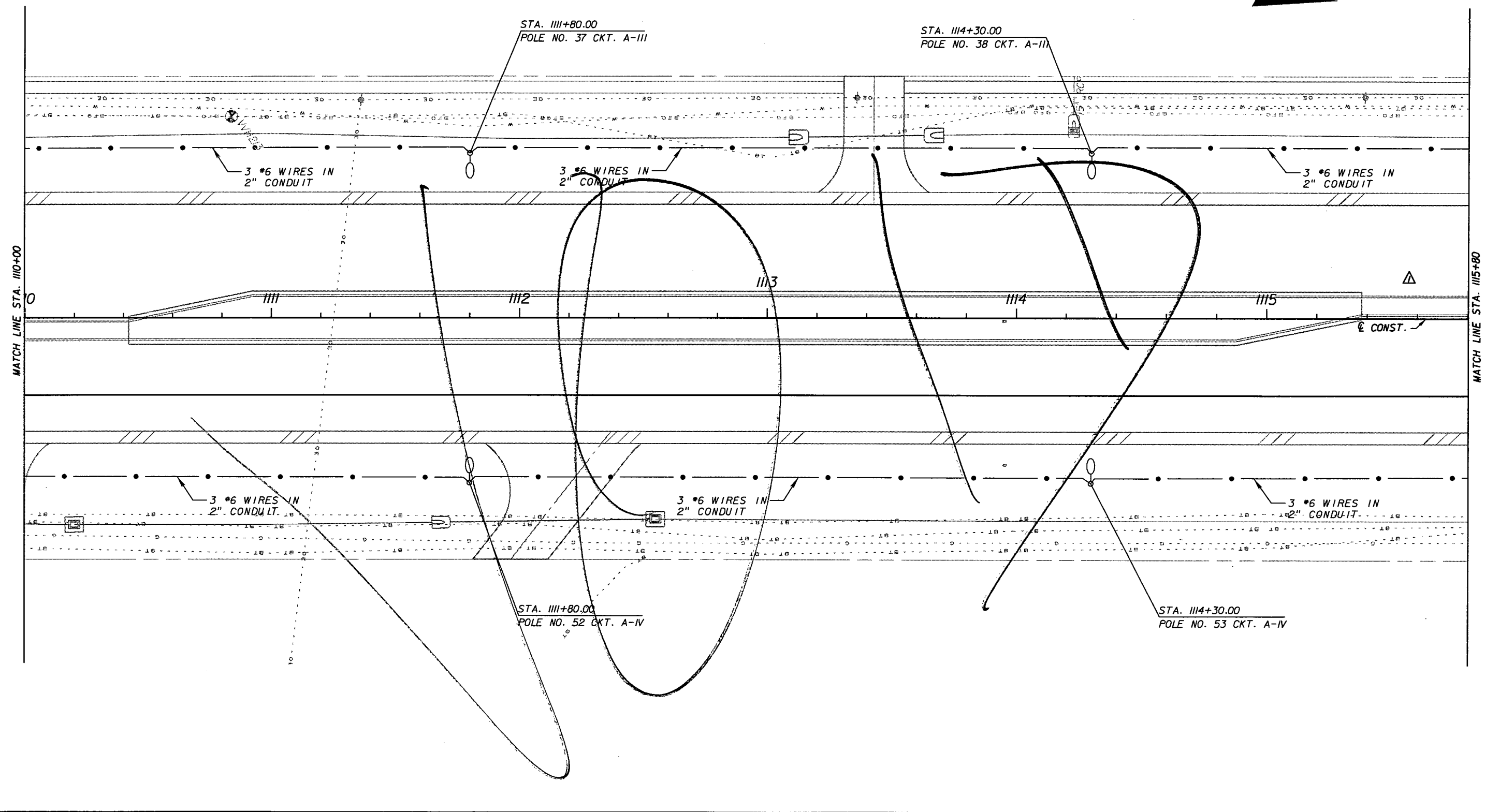
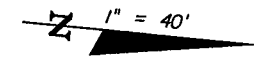
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-17

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	△ REVISED MEDIAN.			

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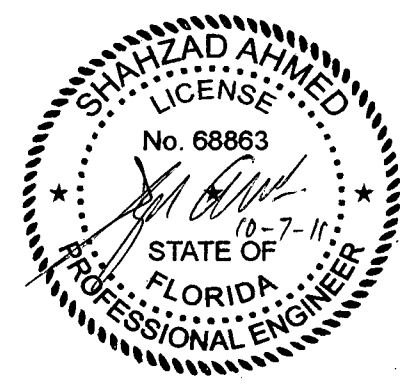
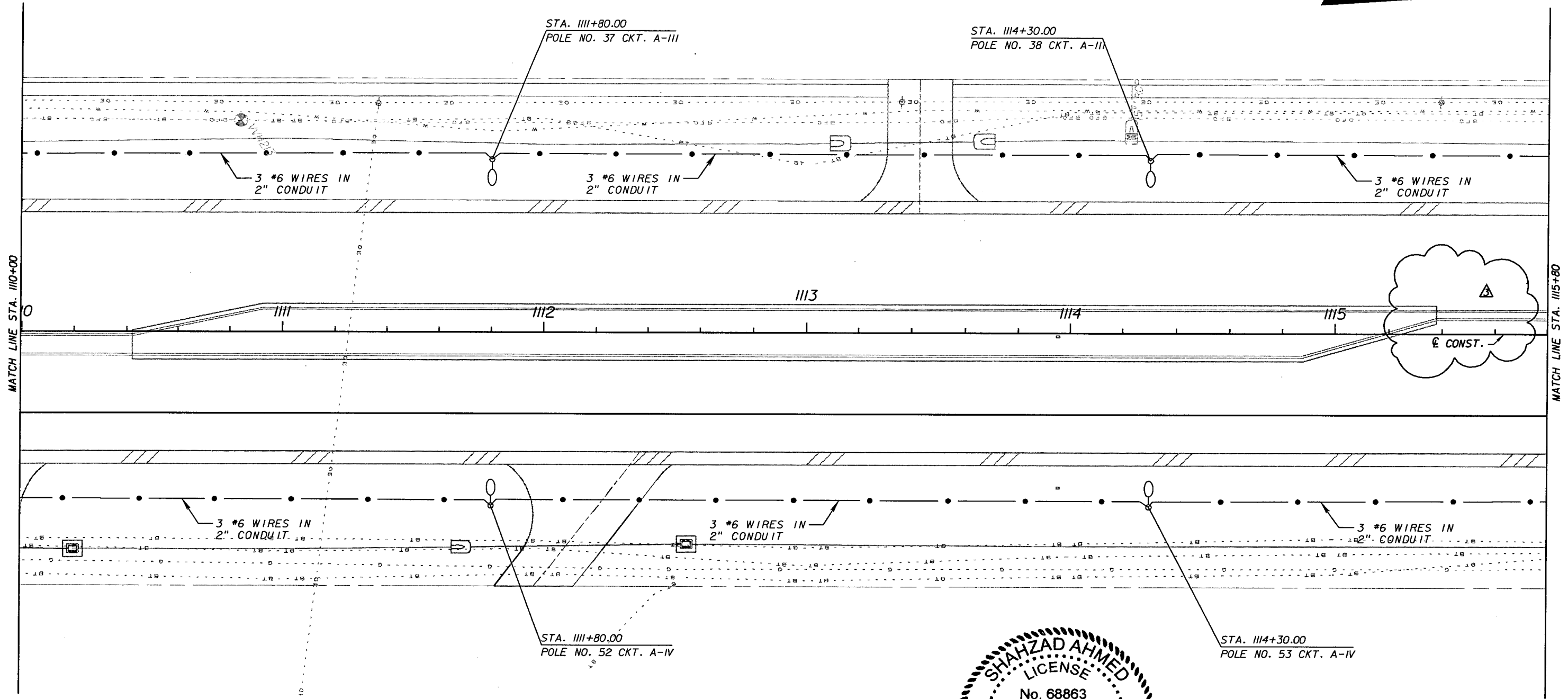
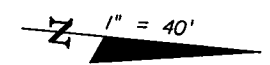
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-18

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Rev 3 10-7-11



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	△ REVISED MEDIAN.			
5/11/11	SA	△ REVISED MEDIAN.			

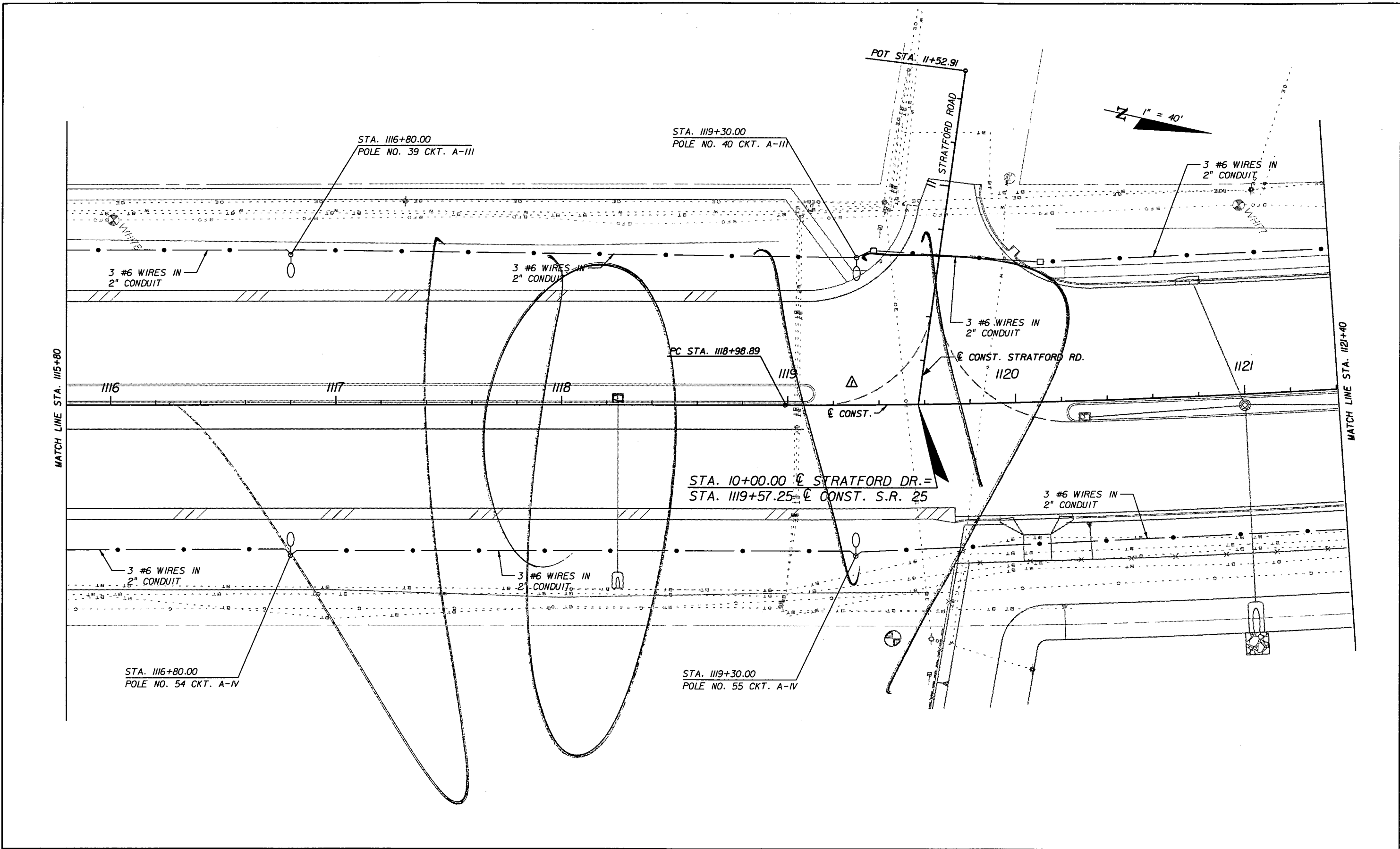
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-18

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	ADDED FULL MEDIAN OPENING.			

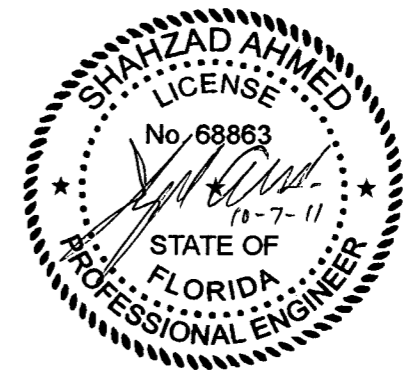
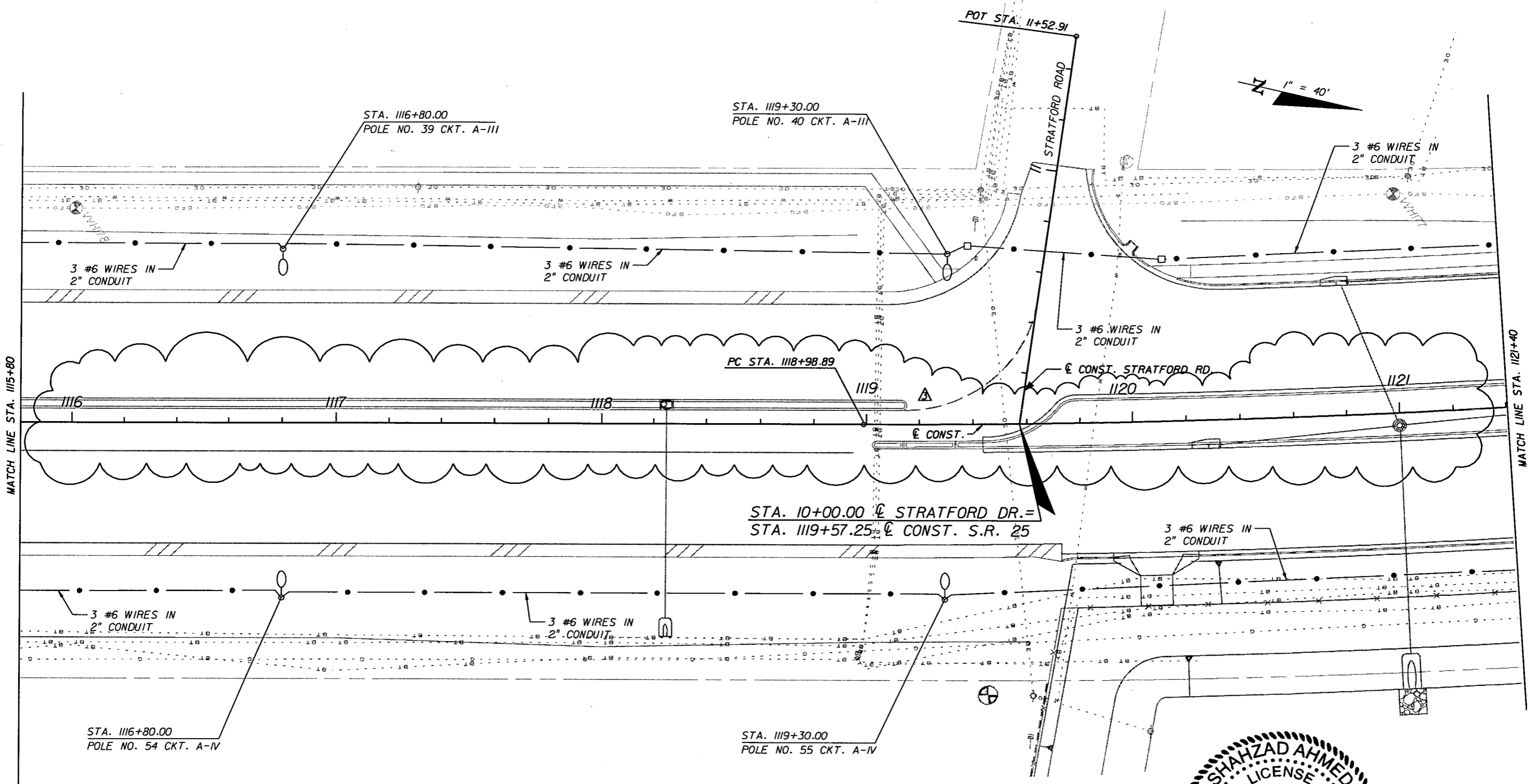
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 Shahzad Ahmed, P.E. No. 68863

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-19

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	▲ ADDED FULL MEDIAN OPENING.			
10/7/11	SA	▲ REVISED MEDIAN OPENING.			

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 Shahzad Ahmed, P.E. No. 68863

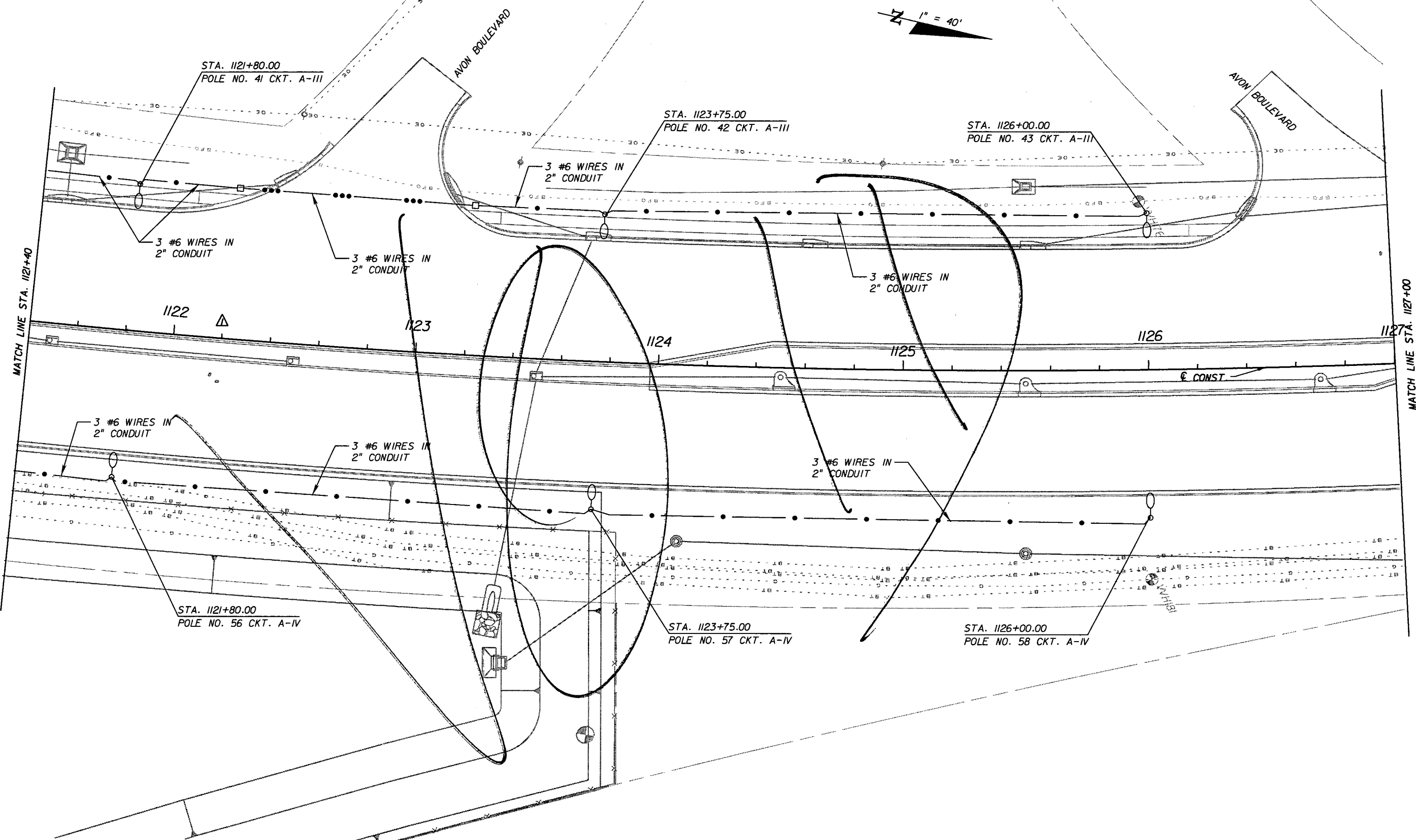
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO. L-19

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1" = 40'



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	△ CLOSED FULL MEDIAN OPENING.			

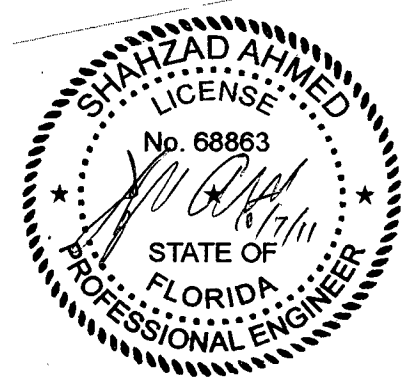
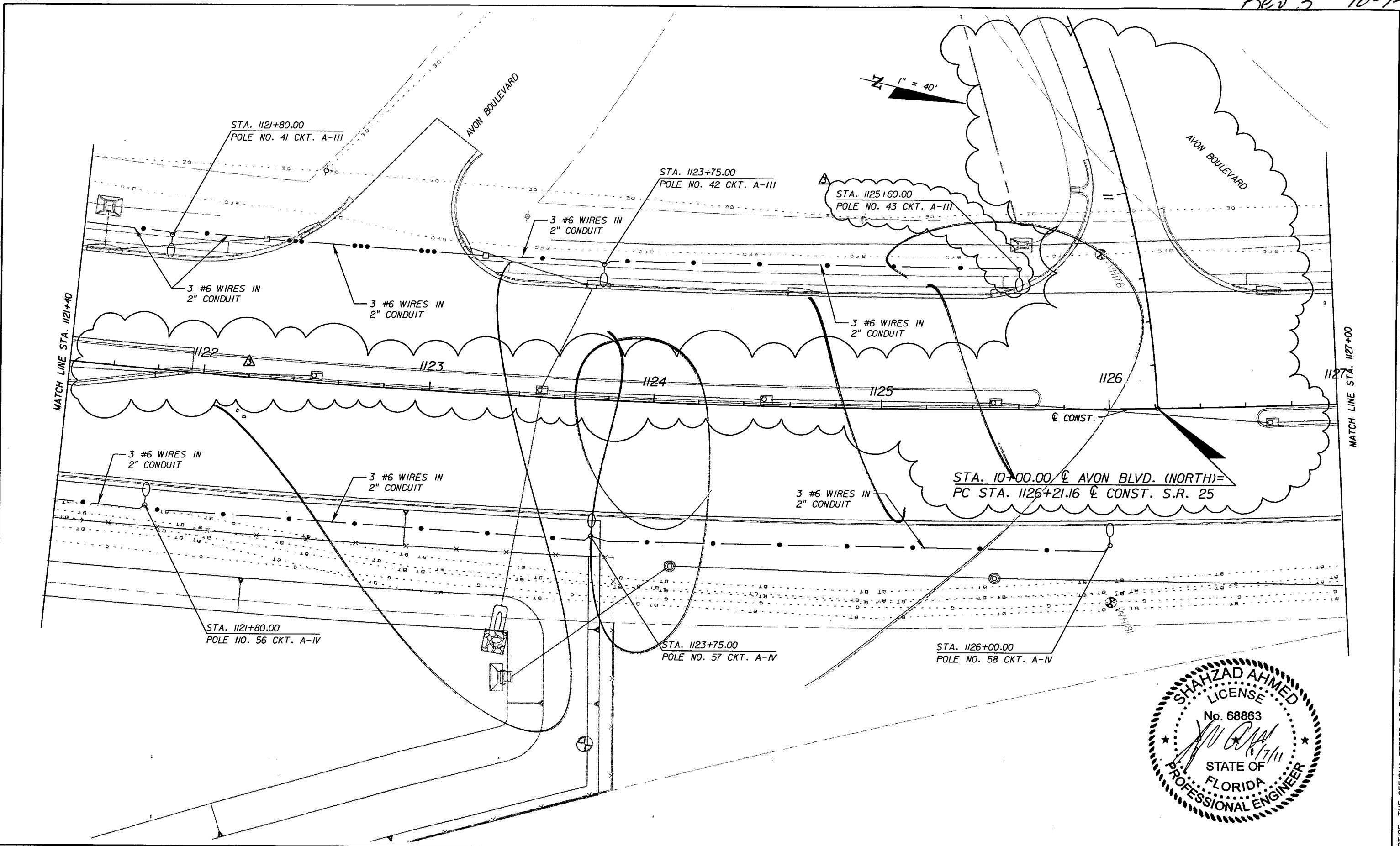
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-20

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	△ CLOSED FULL MEDIAN OPENING.			
10/7/11	SA	△ REVISED LIGHT POLE LOCATION. REALIGNED AVON BLVD. NORTH AND ADDED FULL MEDIAN OPENING.			

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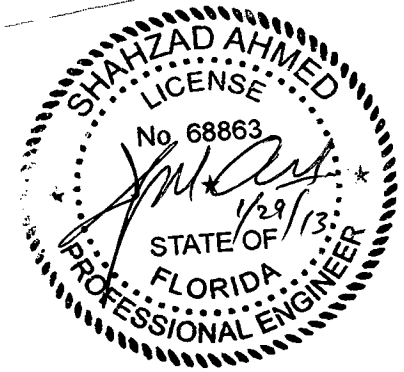
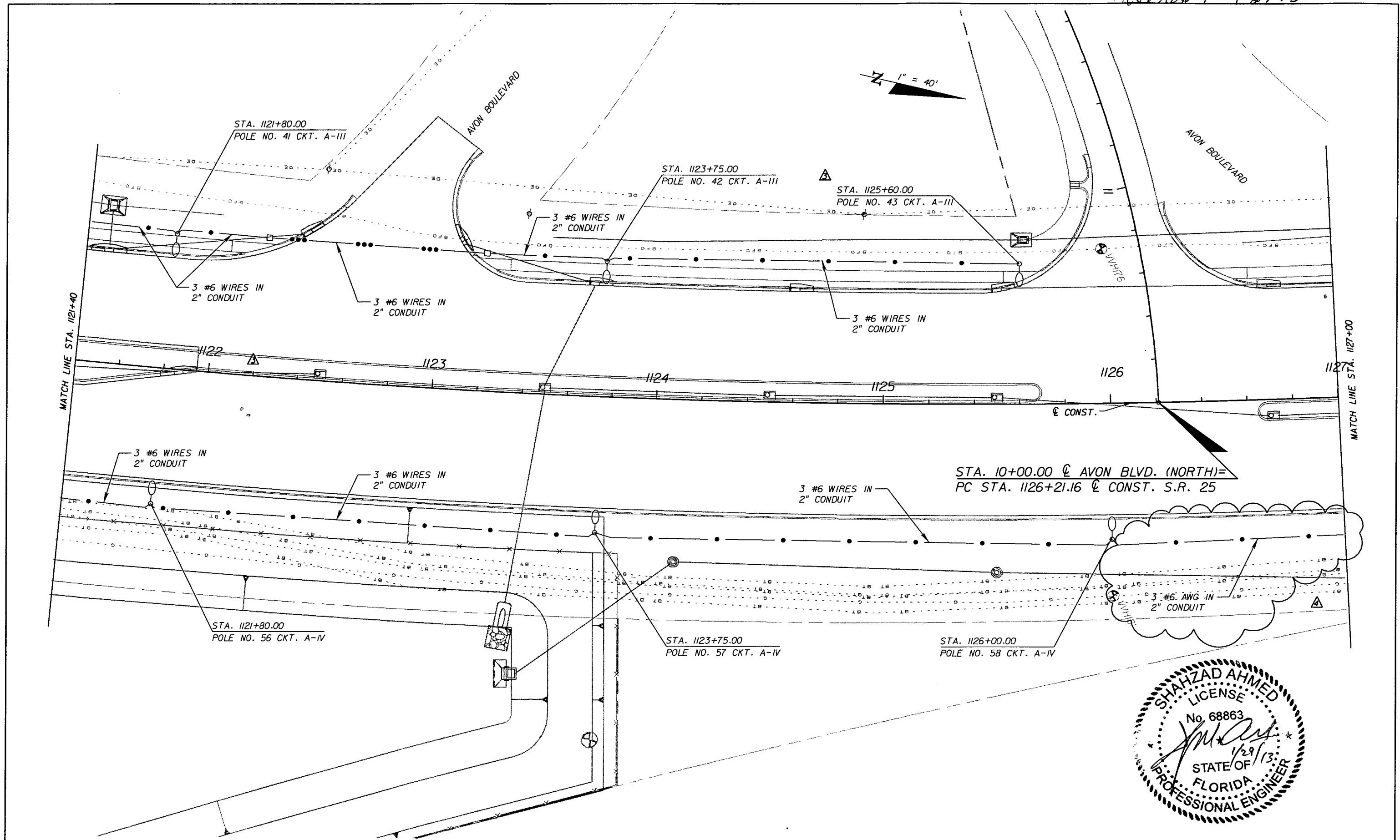
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-20

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Revision 4 1-29-13



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	△ CLOSED FULL MEDIAN OPENING.	01/29/13	SA	△ ADDED CONDUIT.
10/7/11	SA	△ REVISED LIGHT POLE LOCATION. REALIGNED AVON BLVD. NORTH AND ADDED FULL MEDIAN OPENING.			

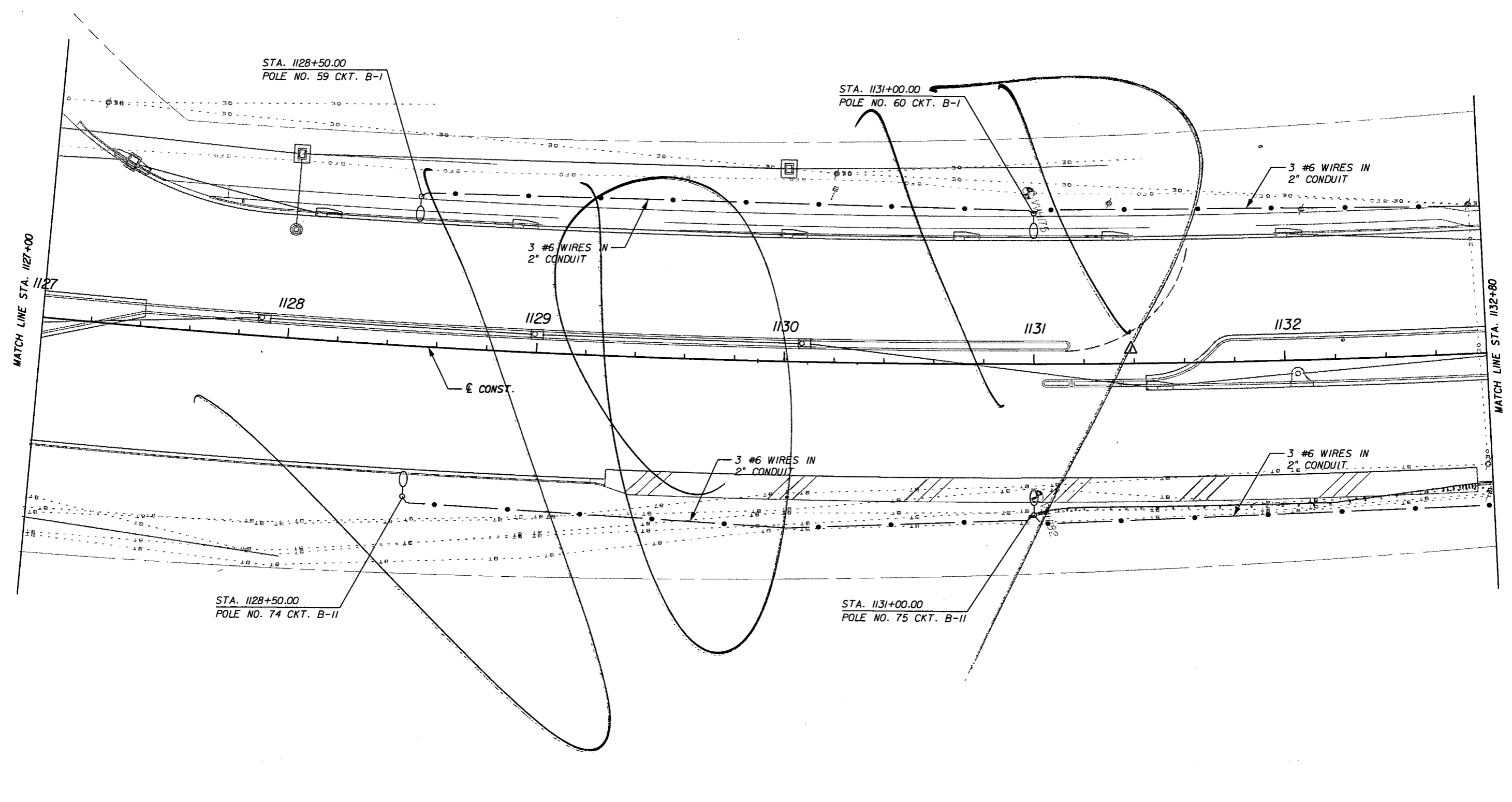
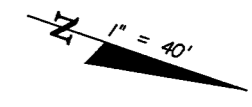
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-20

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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	ADDED NB DIRECTIONAL MEDIAN OPENING.			

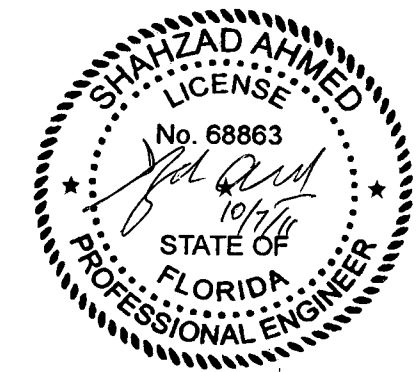
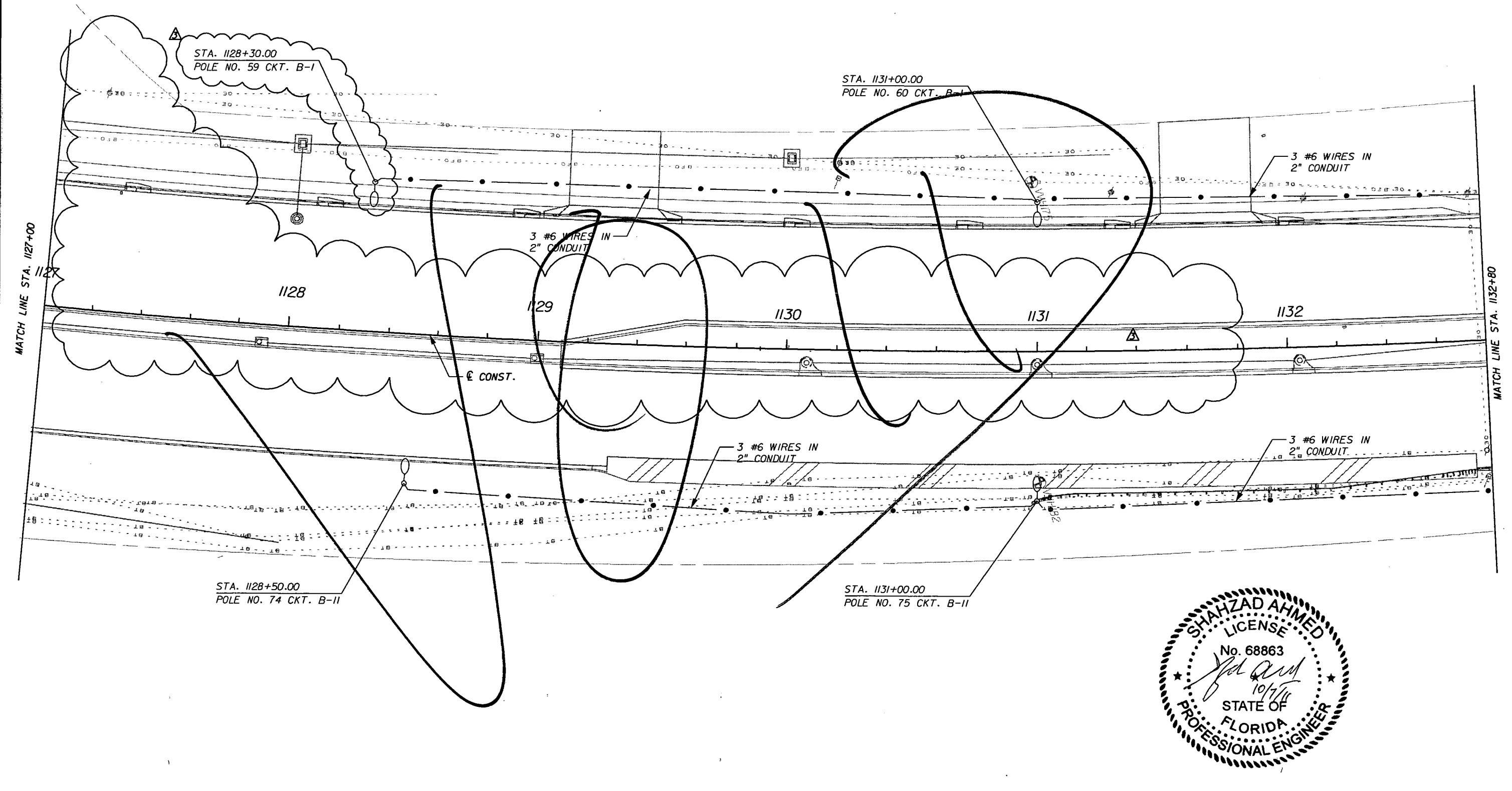
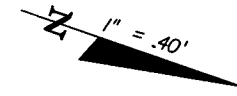
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-21

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
5/11/11	SA	ADDED-NB DIRECTIONAL MEDIAN OPENING.			
10/7/11	SA	REVISED LIGHT POLE LOCATION. REVISED MEDIAN OPENING.			

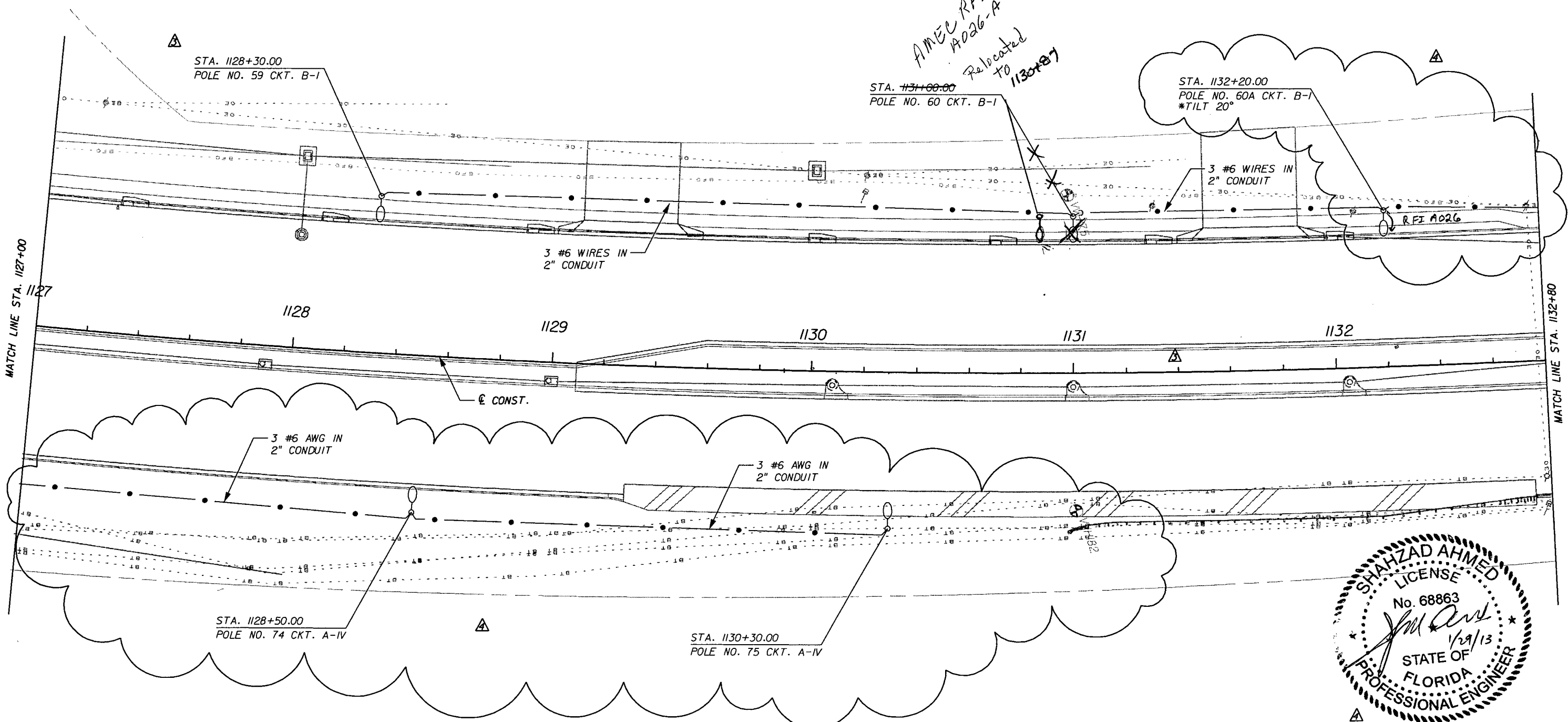
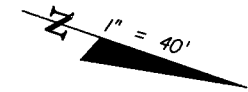
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

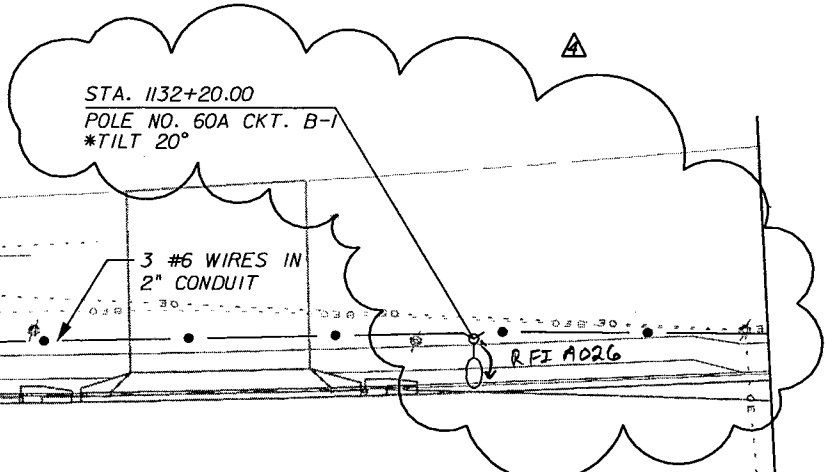
LIGHTING PLAN

SHEET NO.
L-21

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

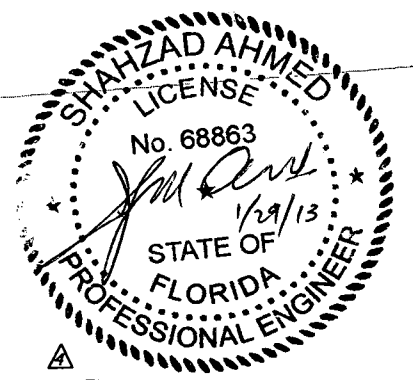


AMEC REF No.
A026-A
Relocated
to
1130+07



MATCH LINE STA. 1127+00

MATCH LINE STA. 1132+80



* NOTE: THE 20° TILT FOR LIGHT POLE FIXTURE SHOULD BE ACCOMPLISHED BY PROVIDING DEFLECTION IN THE LIGHT POLE ARM FROM THE FACTORY.

REVISIONS	
DATE	DESCRIPTION
5/11/11	SA ADDED NB DIRECTIONAL MEDIAN OPENING.
10/7/11	SA REVISED LIGHT POLE LOCATION. REVISED MEDIAN OPENING.
DATE	DESCRIPTION
01/29/13	SA ADDED AND REVISED LIGHT POLES.

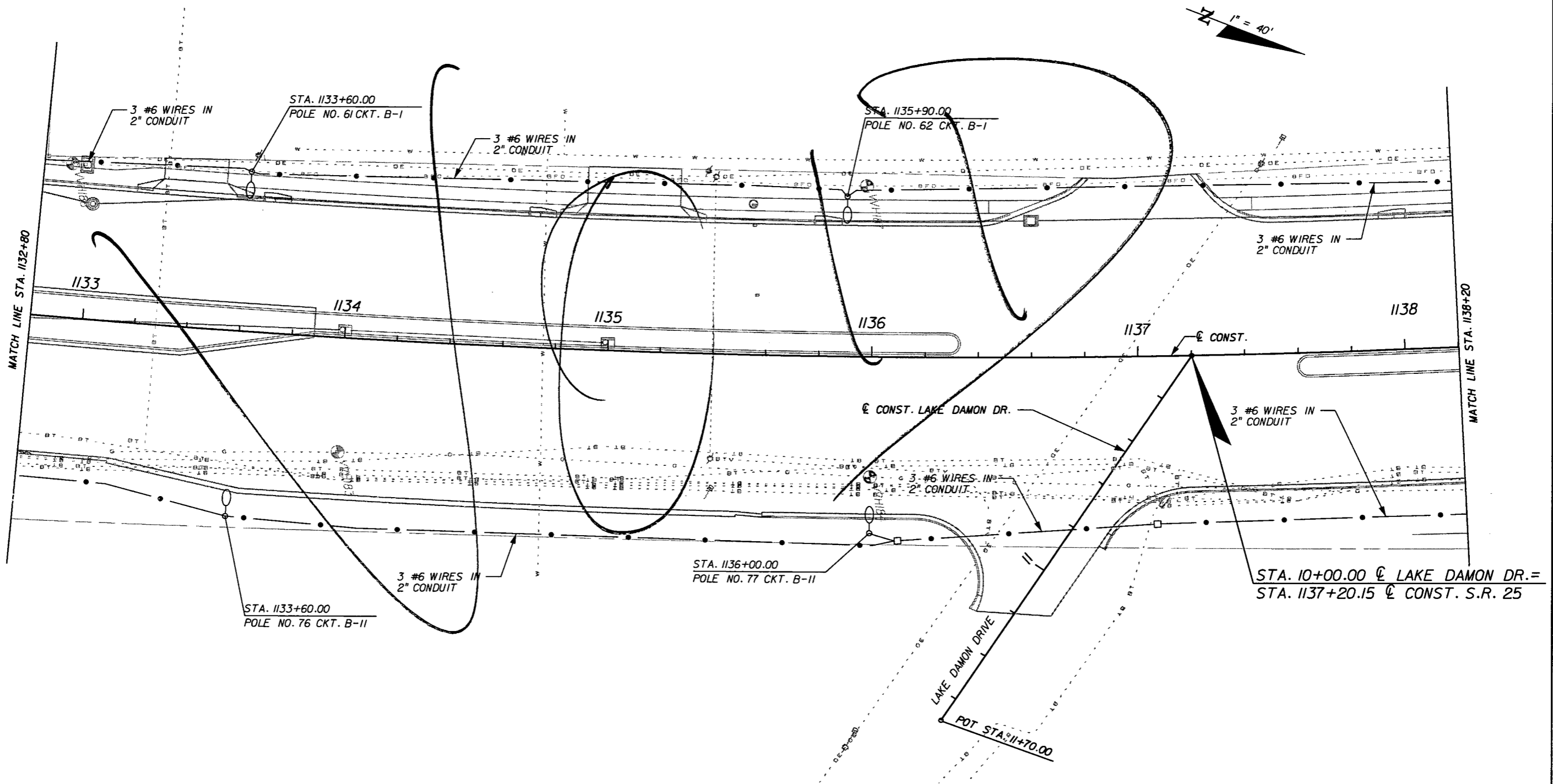
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Certificate of Authorization No. 00000002
Shahzad Ahmed, P.E. No. 68863

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-21

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6615-23.003, F.A.C.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

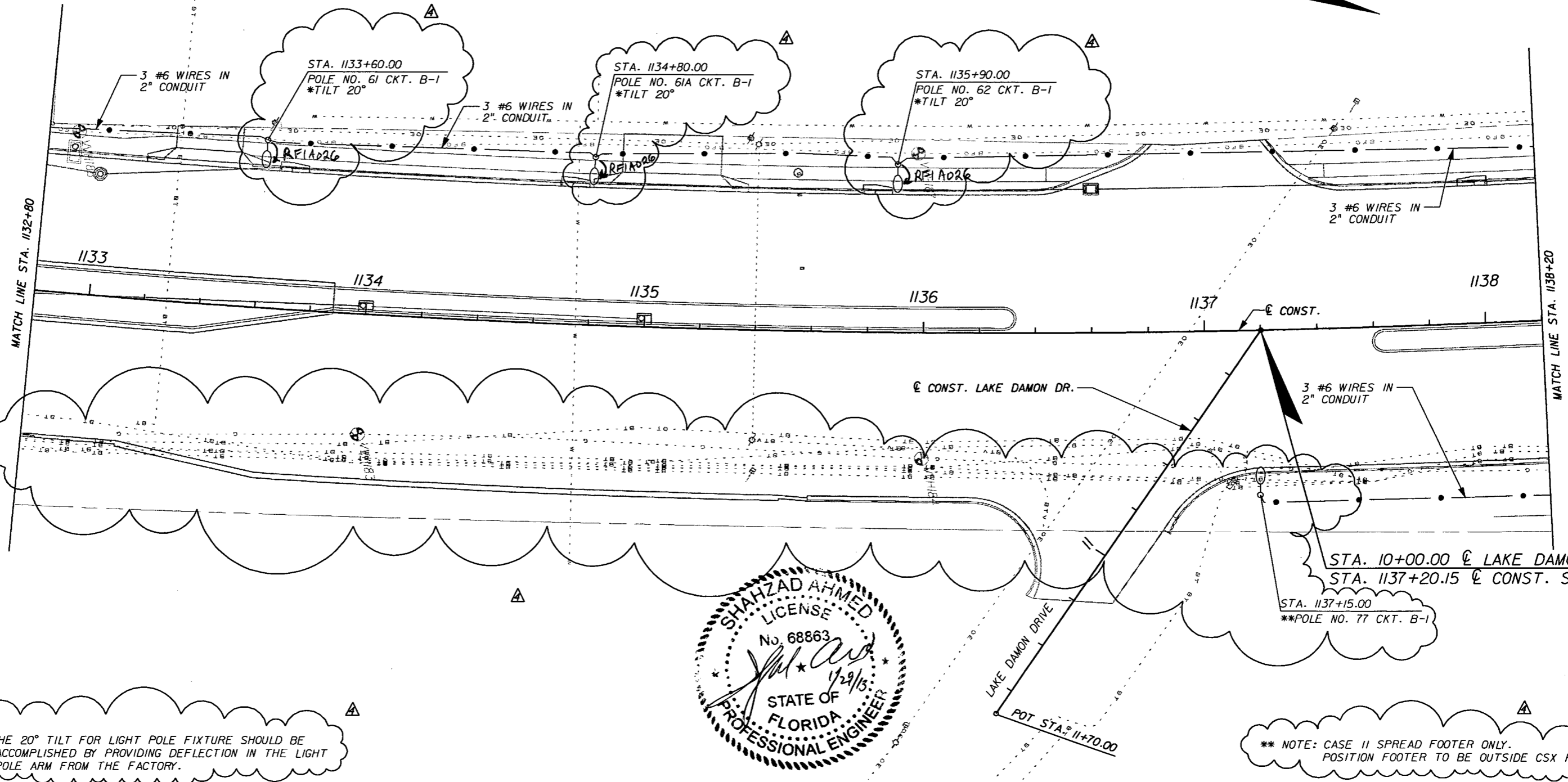
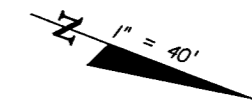
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 Shahzad Ahmed, P.E. No. 68863

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

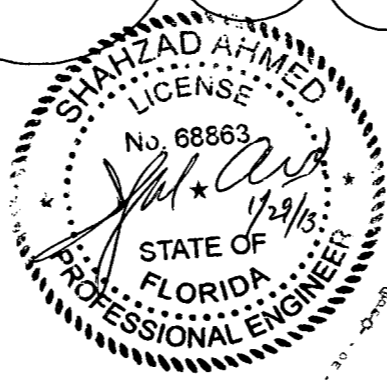
SHEET NO.
L-22

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* NOTE: THE 20° TILT FOR LIGHT POLE FIXTURE SHOULD BE ACCOMPLISHED BY PROVIDING DEFLECTION IN THE LIGHT POLE ARM FROM THE FACTORY.

** NOTE: CASE II SPREAD FOOTER ONLY. POSITION FOOTER TO BE OUTSIDE CSX R/W.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
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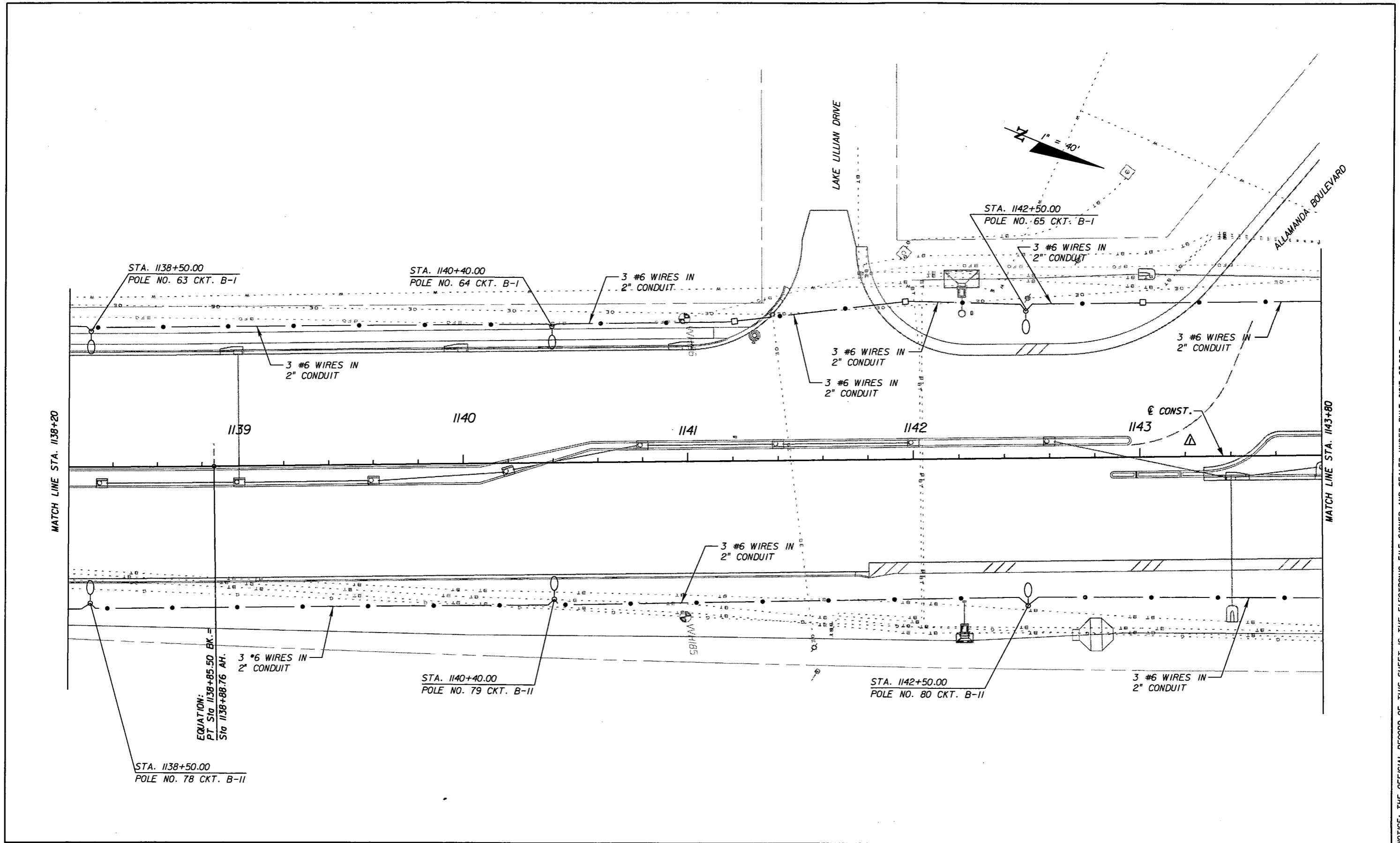
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
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25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-22

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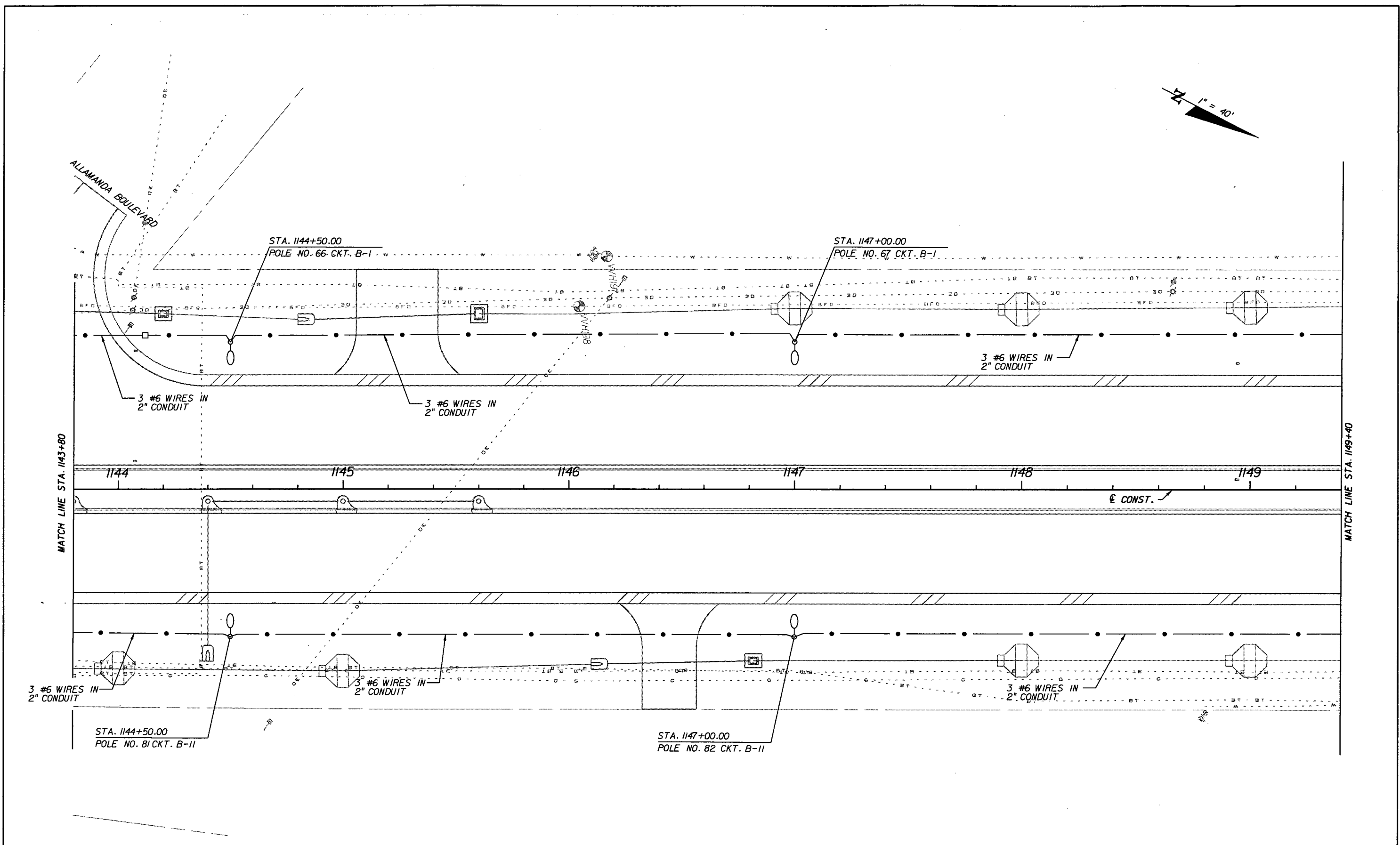
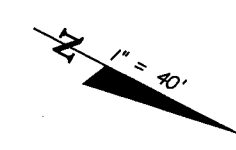
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LIGHTING PLAN

SHEET NO.
L-23

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MATCH LINE STA. 1143+80

MATCH LINE STA. 1149+40

REVISIONS					
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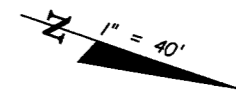
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LIGHTING PLAN

SHEET NO.
L-24

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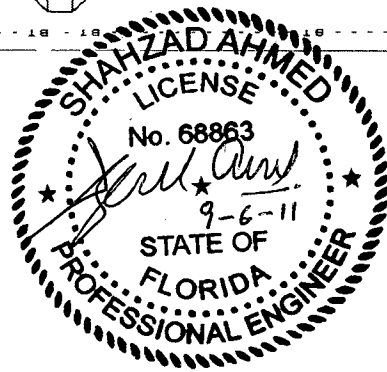
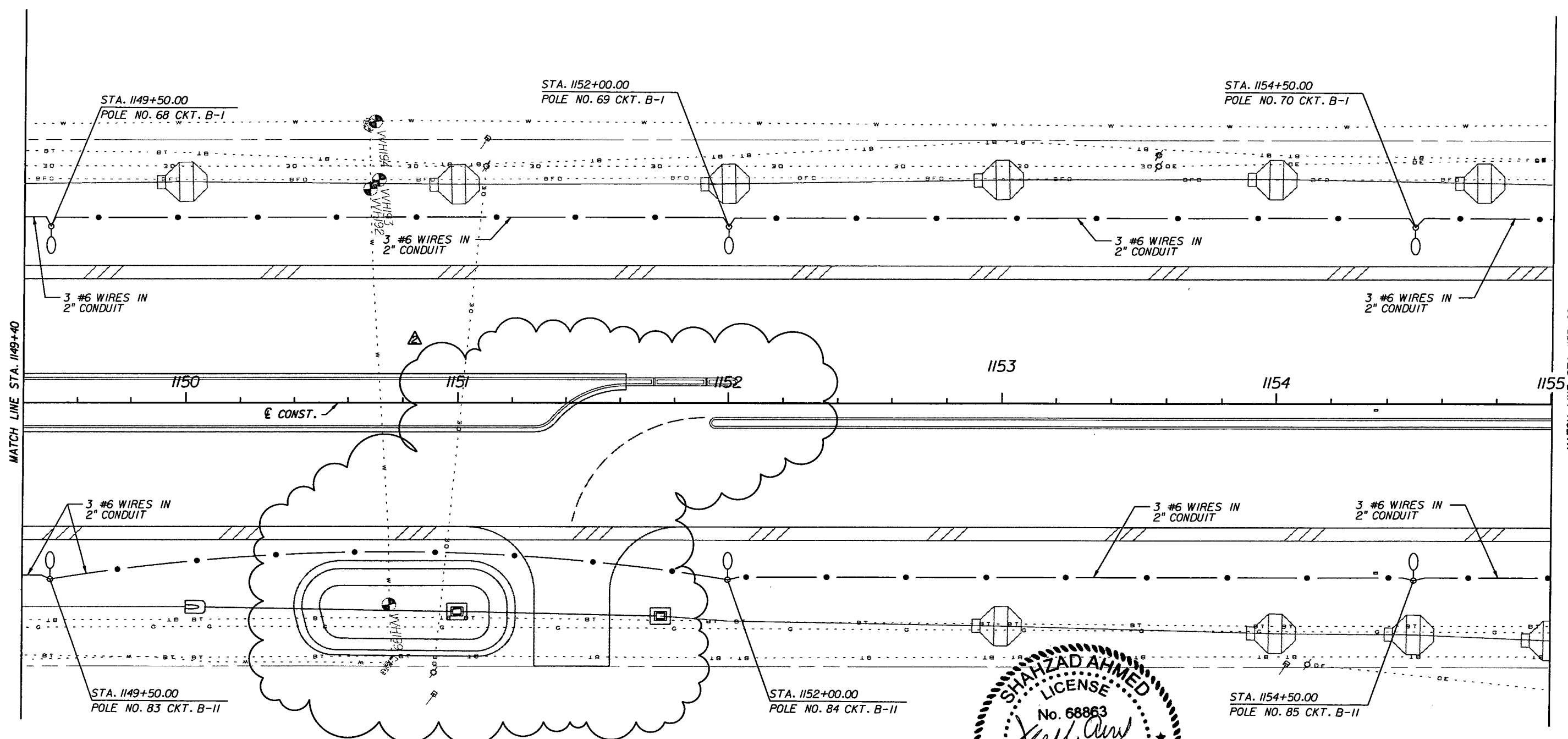
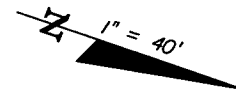
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
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LIGHTING PLAN

SHEET NO.
L-25

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9/6/11	SA	△ RELOCATED SB DIRECTIONAL MEDIAN OPENING.			

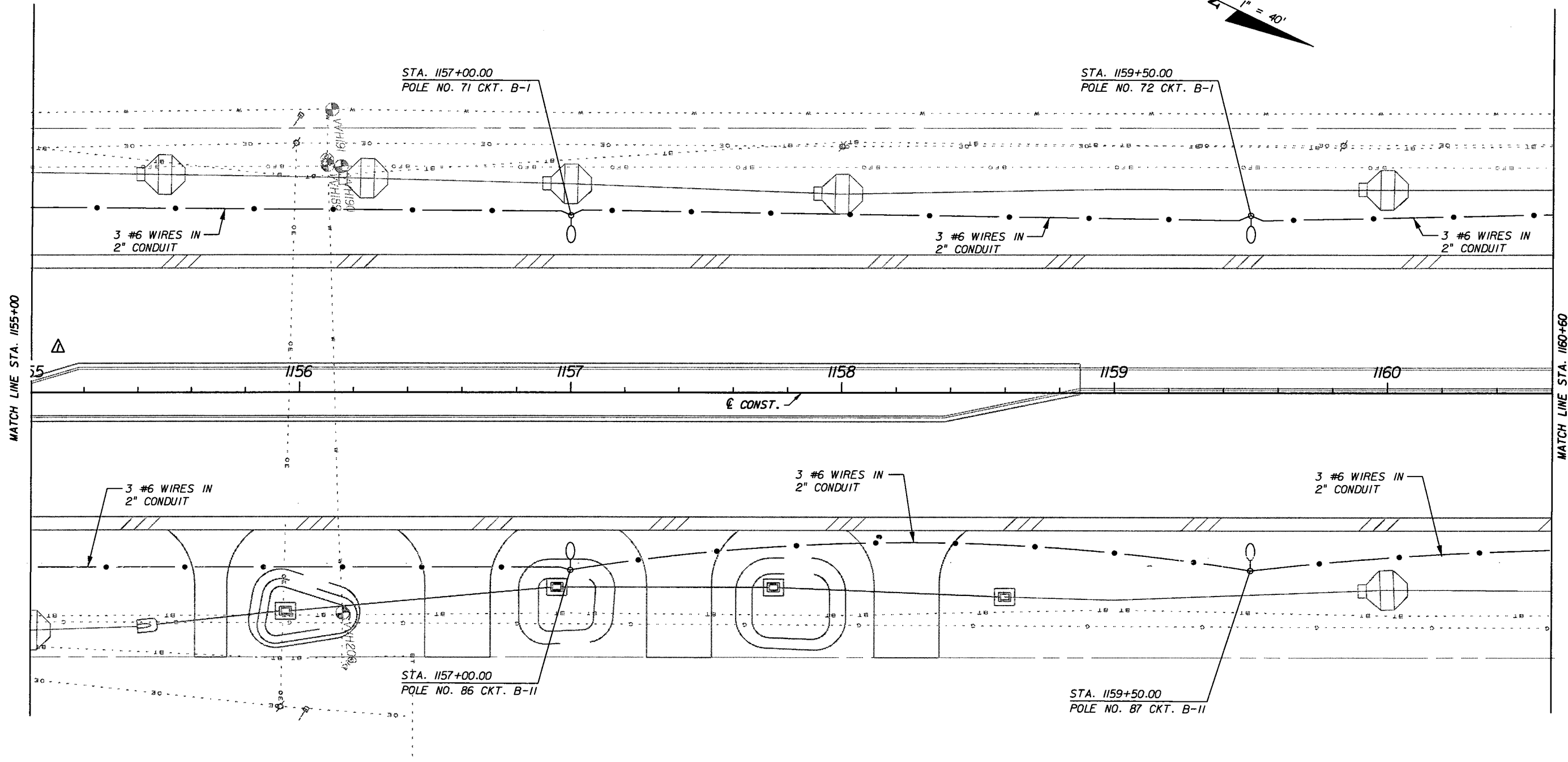
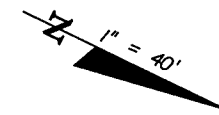


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LIGHTING PLAN

SHEET NO.
L-25



REVISIONS					
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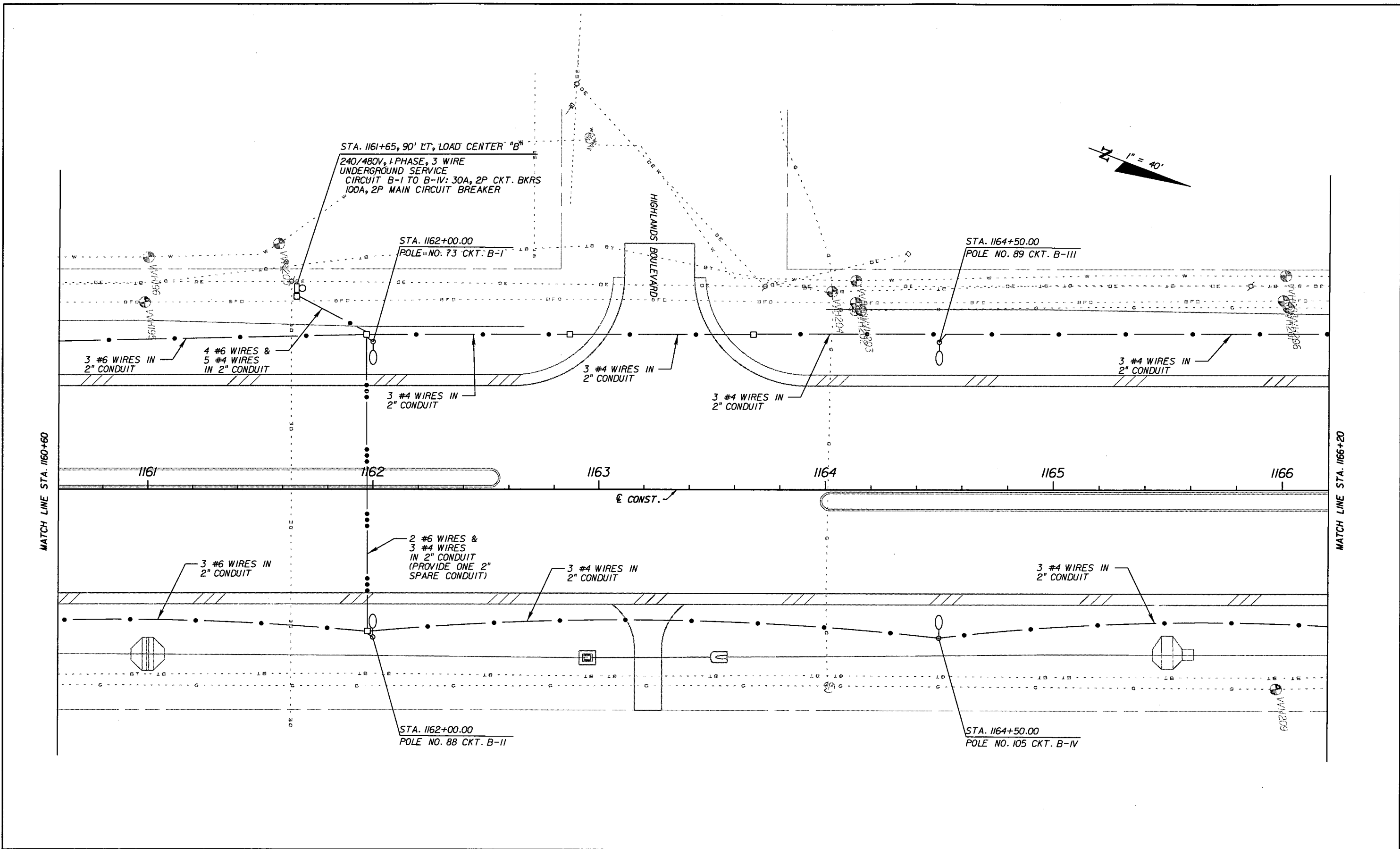
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LIGHTING PLAN

SHEET NO.
L-26

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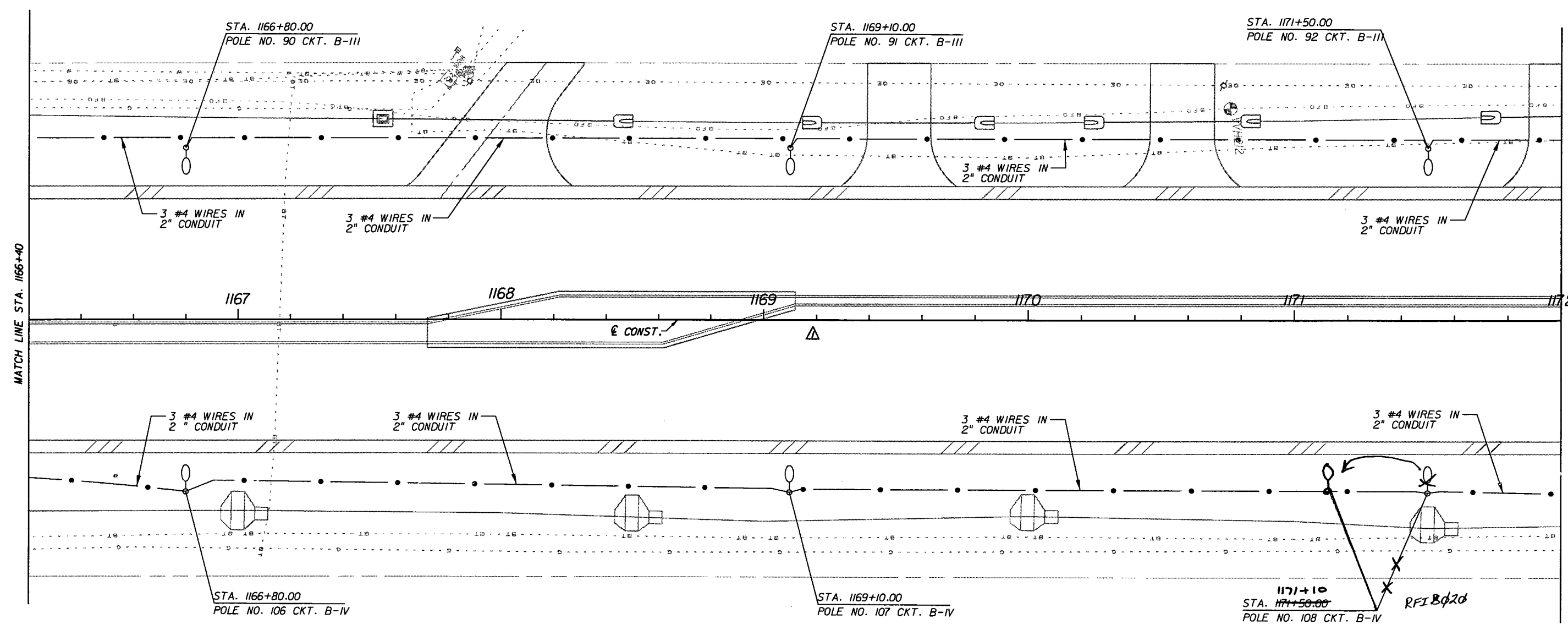
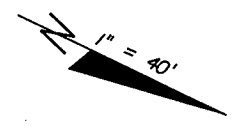
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LIGHTING PLAN
 SHEET NO.
 L-27

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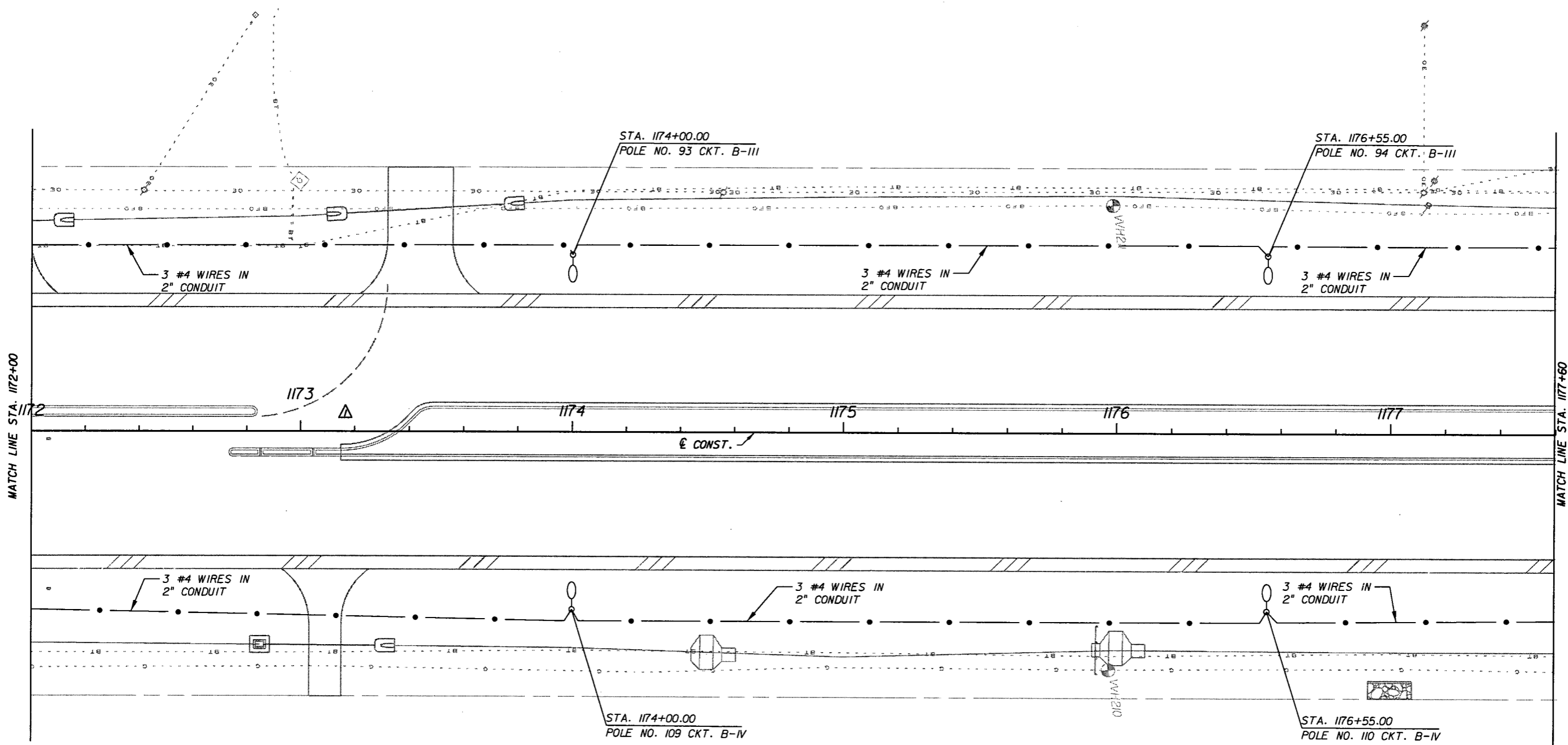
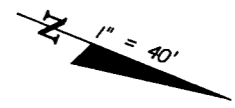
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LIGHTING PLAN

SHEET NO.
L-28

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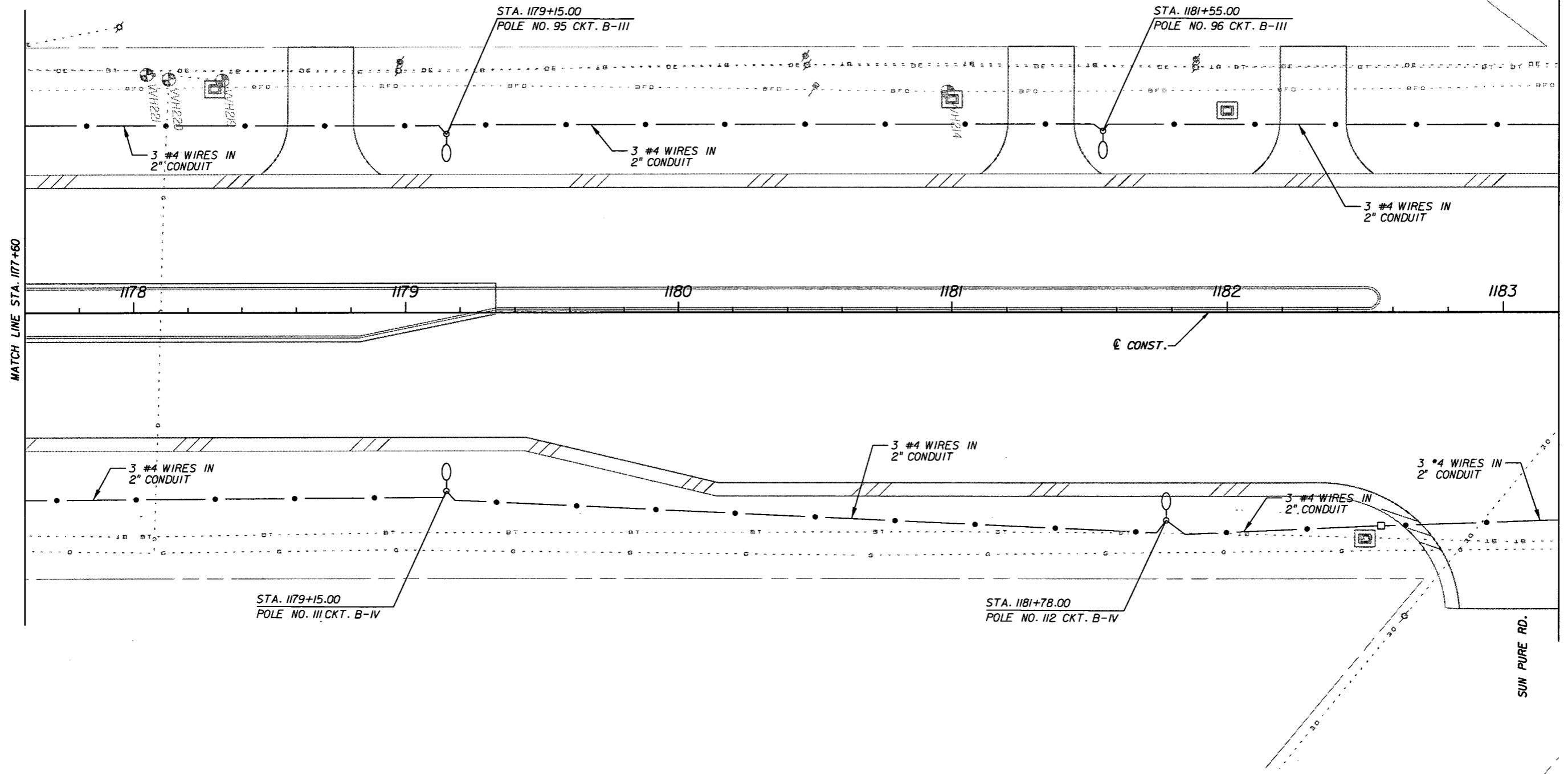
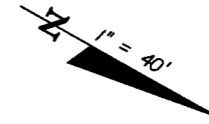
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LIGHTING PLAN

SHEET NO.
L-29

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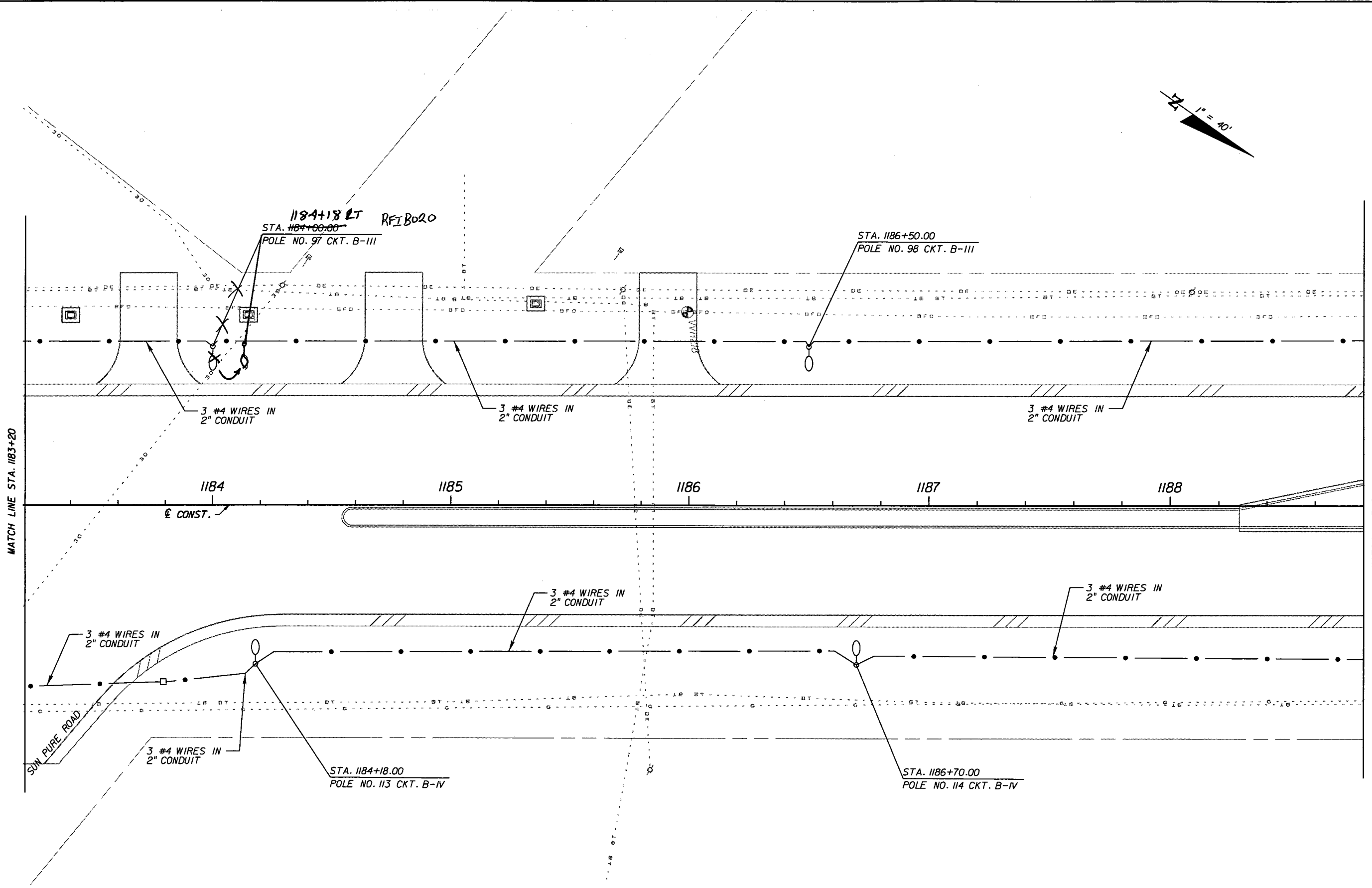
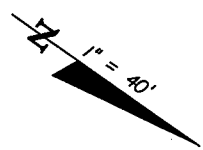
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LIGHTING PLAN

SHEET NO.
L-30

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MATCH LINE STA. 1183+20

MATCH LINE STA. 1188+80

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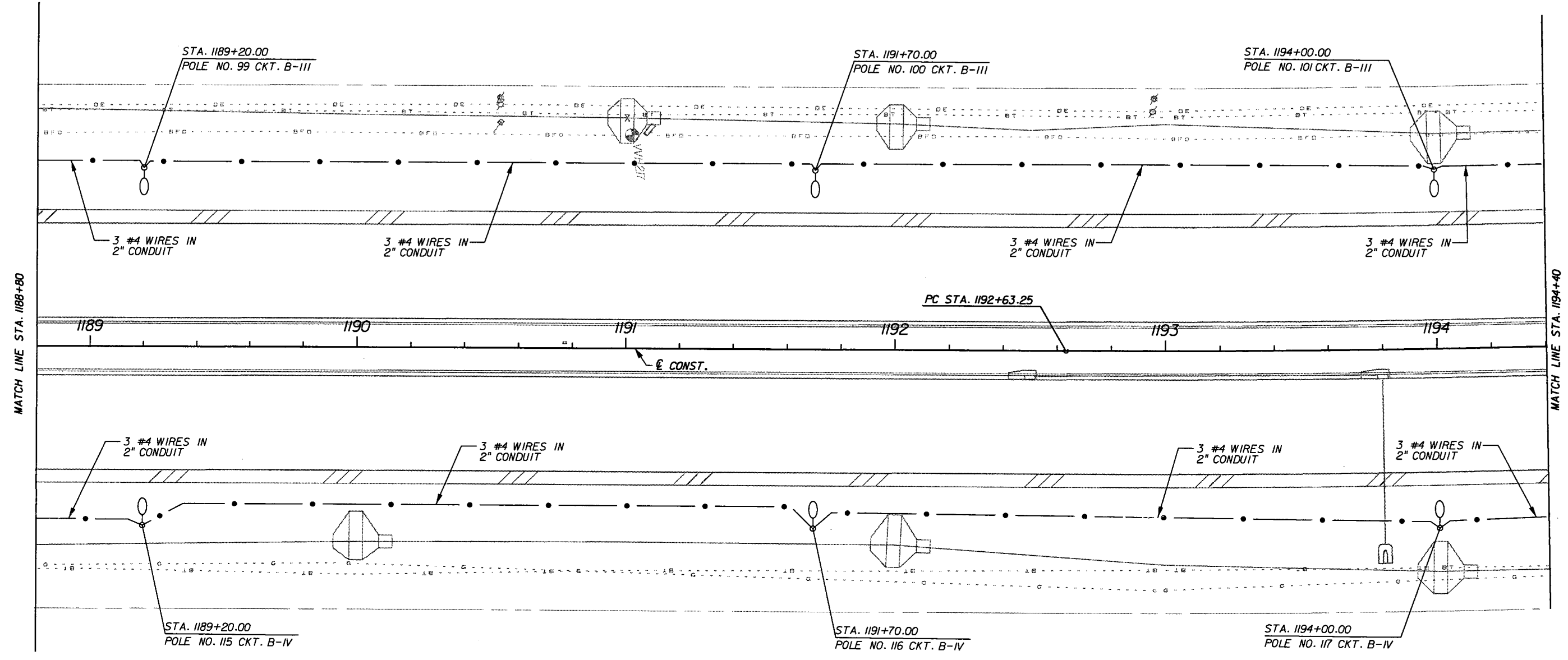
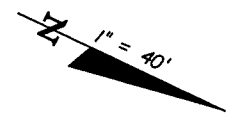
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LIGHTING PLAN

SHEET NO.
L-31

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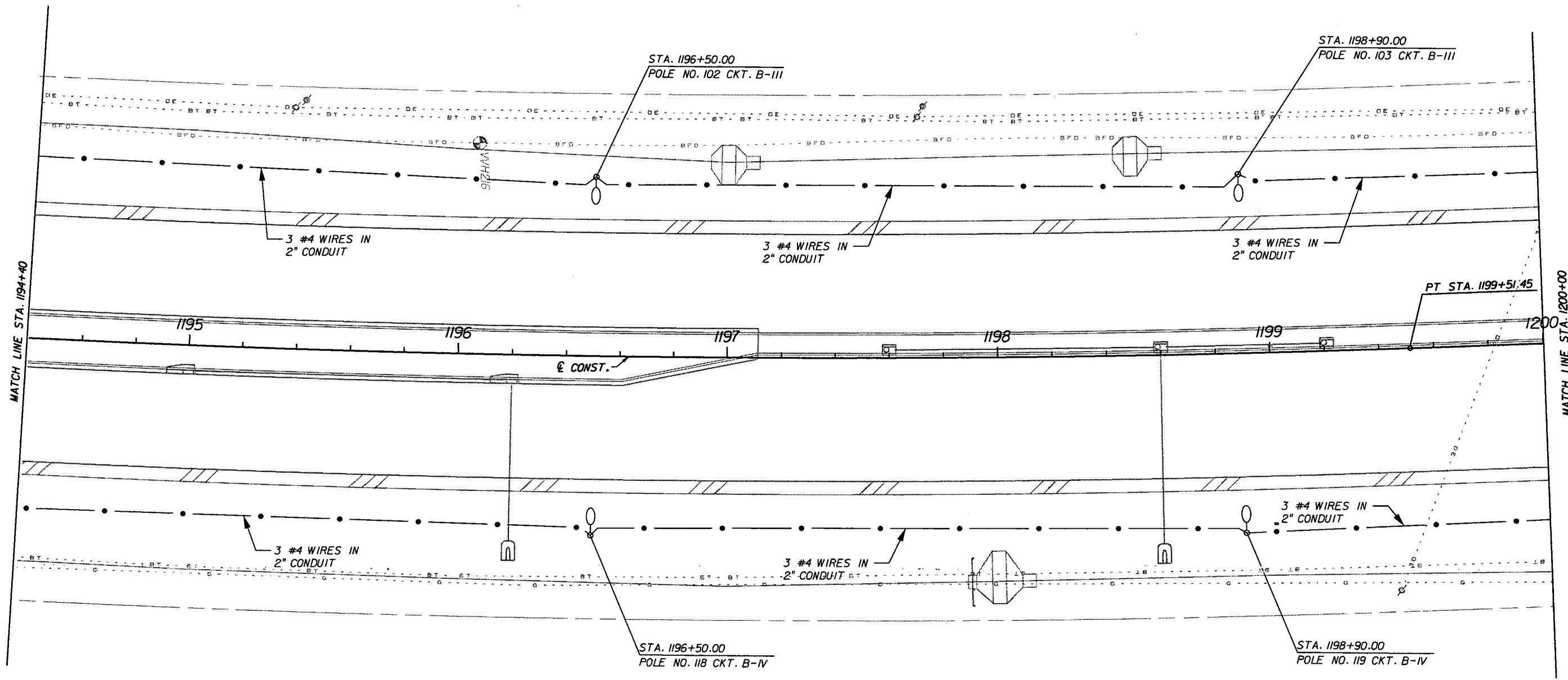
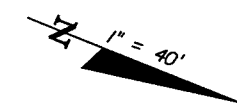
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LIGHTING PLAN

SHEET NO.
L-32

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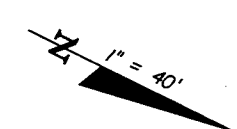
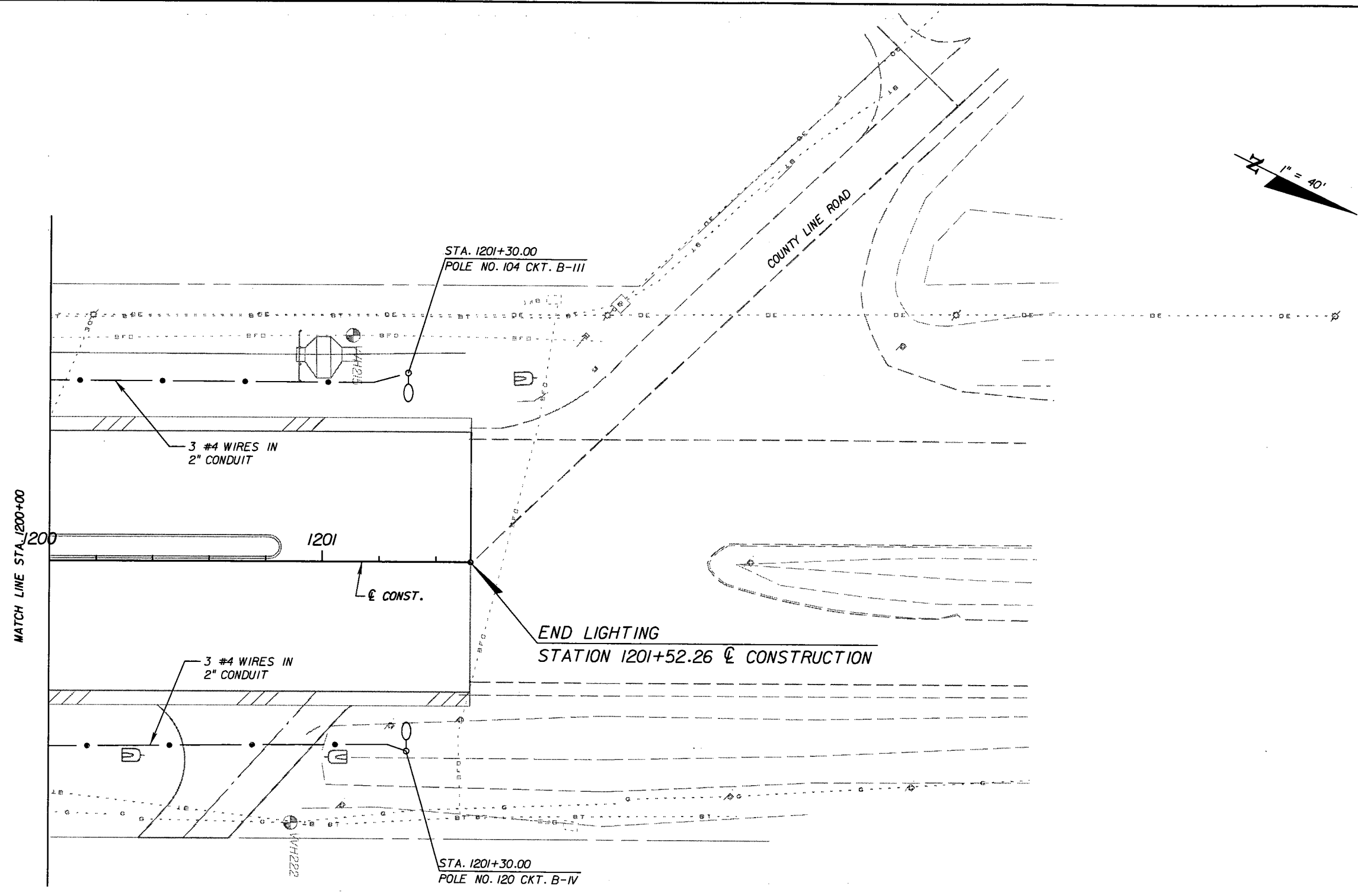
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LIGHTING PLAN

SHEET NO.
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ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

LIGHTING PLAN

SHEET NO.
L-34

GENERAL NOTES:

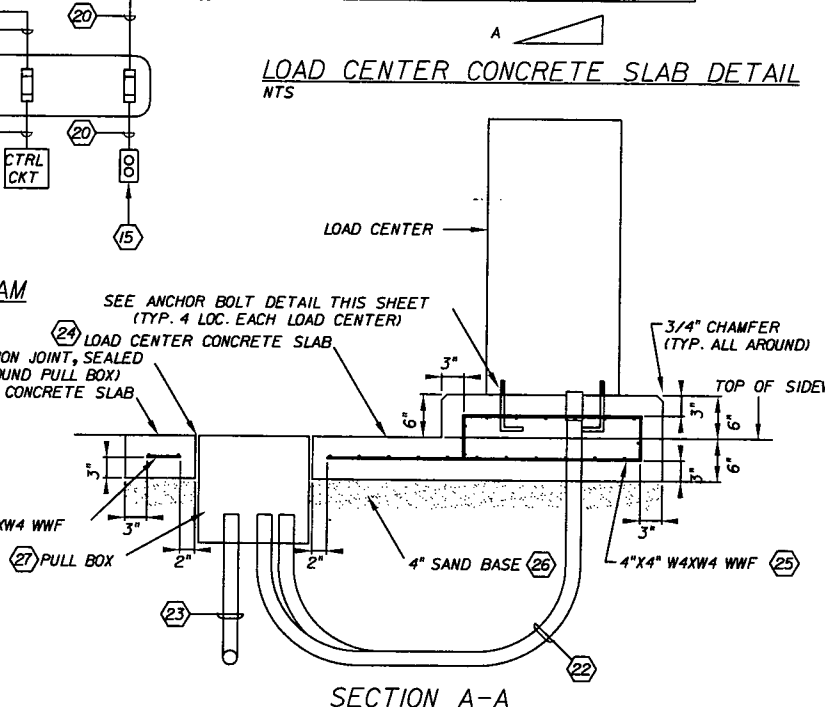
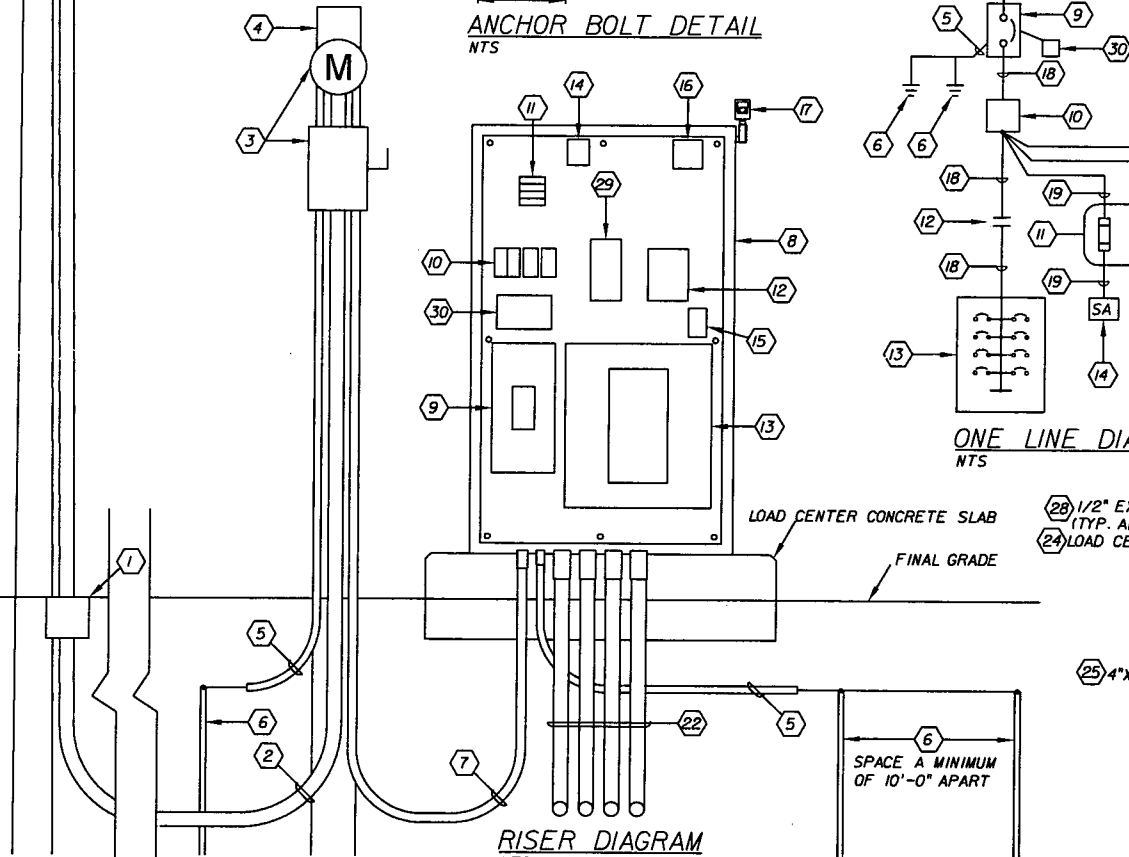
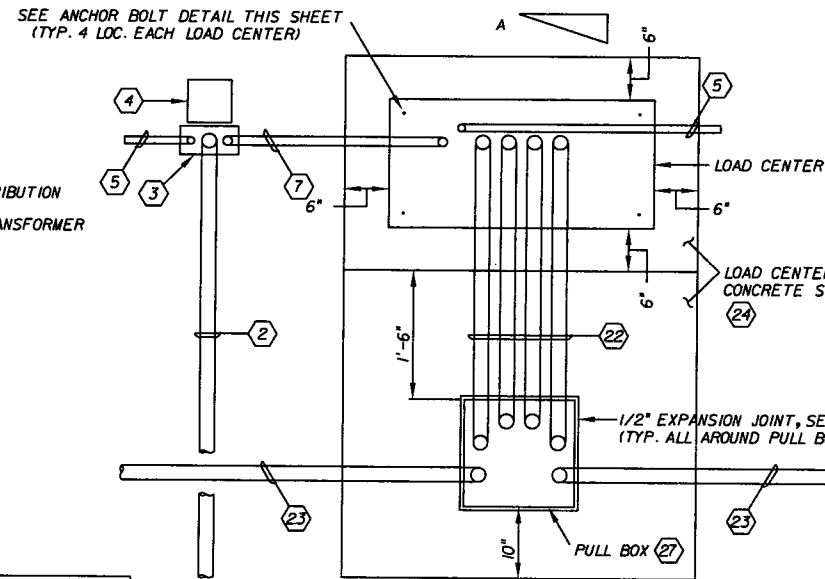
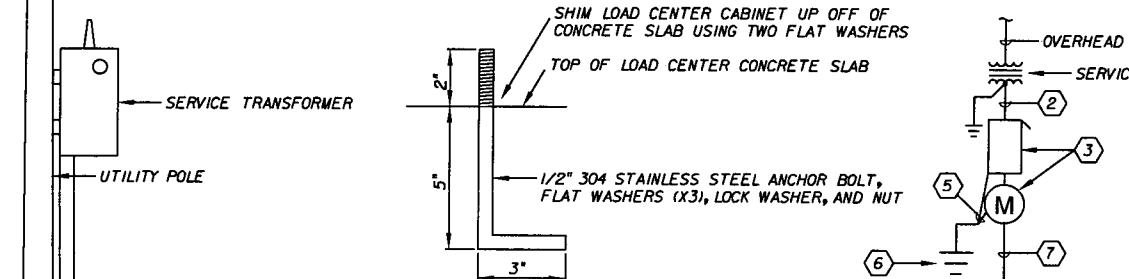
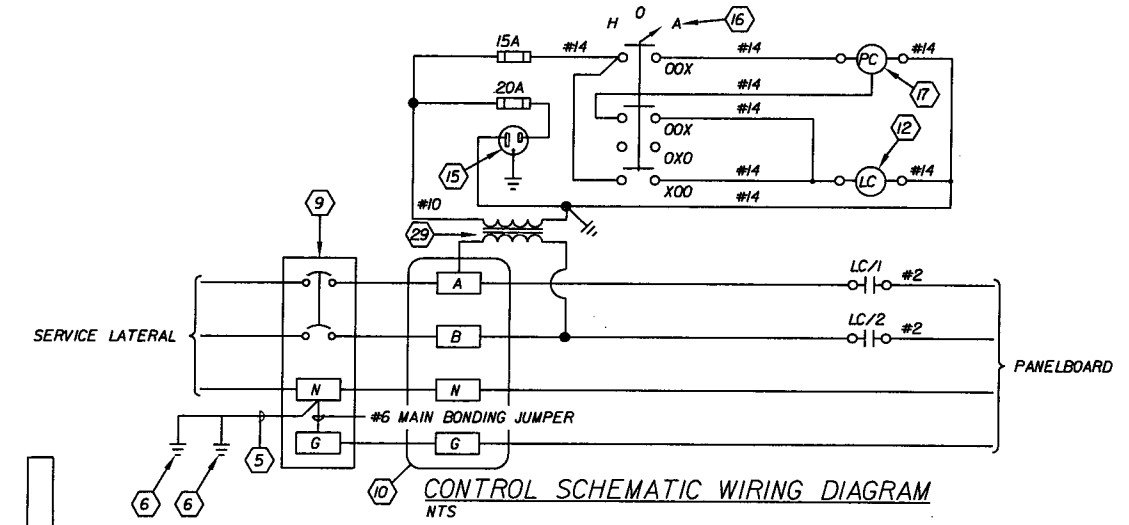
1. LOAD CENTER SHALL BE FACTORY ASSEMBLED AND TESTED PRIOR TO SHIPMENT TO THE PROJECT SITE FOR INSTALLATION. ALL COMPONENT DEVICES AND MATERIALS USED IN THE MANUFACTURE OF THE LOAD CENTER SHALL BE UL AND LABELED. THE FULLY ASSEMBLED LOAD CENTER SHALL BE CERTIFIED BY UL AND SHALL BEAR A PERMANENT LABEL INDICATING SAME. COMPLY WITH THE APPLICABLE REQUIREMENTS OF DESIGN STANDARD INDEX NOS. 17736 (SHEET NO. 1 OF 1) AND 17841 (SHEET NO. 1 OF 1).

KEYED NOTES:

- 1 PROVIDE A PULL BOX AT THE BASE OF THE SERVICE POLE WITH ENOUGH CABLE FOR SERVICE CONNECTION BY PROGRESS ENERGY. TRANSITION SERVICE LATERAL UNDERGROUND CONDUIT TO RGS (RIGID GALVANIZED STEEL) CONDUIT AT LEAST 90 DEGREE ELBOW BEFORE RISING UP AND EMERGING FROM GRADE BY PROGRESS ENERGY.
- 2 PROVIDE 3 #4AWG SERVICE CONDUCTORS SERVICE LATERAL BY CONTRACTOR. COORDINATE WITH PROGRESS ENERGY FOR SERVICE SIDE TERMINATION.
- 3 PROVIDE 100A FUSED DISCONNECT SWITCH (MINIMUM AIC 25,000) IN NEMA 3R ENCLOSURE AND A METER SOCKET. COORDINATE WITH POWER COMPANY.
- 4 PROVIDE 6" SQ. BY 10'-0" LONG CONCRETE POST FOR MOUNTING. DIRECT BURY POST WITH 4'-0" EMBEDMENT BELOW FINAL GRADE.
- 5 PROVIDE #4 AWG BARE STRANDED COPPER GROUNDING CONDUCTOR IN 1" SCH. 40 PVC CONDUIT. BOND GROUNDING CONDUCTOR TO TOP OF GROUND ROD(S) VIA THE EXOTHERMIC WELDING PROCESS.
- 6 PROVIDE 3/4" DIA. BY 20'-0" LONG COPPER CLAD STEEL GROUND ROD. DRIVE GROUND ROD UNTIL ITS TOP IS 12" BELOW FINAL GRADE.
- 7 PROVIDE GROUNDING SERVICE CONDUCTORS AS SHOWN ON PLAN SHEET IN SCH. 40 PVC CONDUIT.

KEYED NOTES CONT.

- 8 PROVIDE NEMA 3R, OPEN BOTTOM, SINGLE CONTINUOUS HINGED DOOR ENCLOSURE WITH BACK PANEL, 3-POINT T-HANDLE LATCHING MECHANISM WITH PLASTIC OR RUBBER ROLLER GUIDES, AND PAD LOCK HASP. ENCLOSURE AND BACK PANEL SHALL BE FABRICATED FROM MINIMUM 12 GAUGE 316 STAINLESS STEEL STOCK, AND ALL HARDWARE SHALL BE STAINLESS STEEL. DIMENSIONS SHALL BE AS REQUIRED TO ACCOMMODATE THE COMPONENT DEVICES AND MATERIALS SPECIFIED TO BE INSTALLED INSIDE THE ENCLOSURE, BUT IN NO CASE SHALL THE ENCLOSURE HAVE DIMENSIONS LESS THAN 36"W. X 60"H. X 18"D.
- 9 PROVIDE 100A THERMAL-MAGNETIC MAIN CIRCUIT BREAKERS WITH 25,000 AIC AS MIN, LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT, WITH SOLID-NEUTRAL KIT AND NEMA TYPE 1 ENCLOSURE. PROVIDE 2" CHASE NIPPLES IN TOP AND BOTTOM OF ENCLOSURE.
- 10 PROVIDE TIN PLATED COPPER, 600V, (1) #4-500KCMIL (LINE-SIDE), (6) #4-#2 (LOAD-SIDE), PANEL MOUNT POWER DISTRIBUTION BLOCKS (PDB) SUITABLE FOR USE WITH COPPER CONDUCTORS. PROVIDE ONE 2P PDB (A AND B PHASES), ONE 1P PDB (NEUTRAL), AND ONE 1P PDB (GROUND).
- 11 PROVIDE TIN PLATED COPPER ALLOY, 30A, 600V FUSE HOLDERS SUITABLE FOR USE WITH CLASS CC FUSES. PROVIDE ONE 2P FUSE HOLDER WITH TWO (2) 30A, 600V, CLASS CC FUSES (A AND B PHASES FOR SURGE ARRESTER), ONE 1P FUSE HOLDER WITH ONE 15A, 600V, CLASS CC FUSE (A PHASE FOR CONTROL CIRCUIT), AND ONE 1P FUSE WITH ONE 20A, 600V, CLASS CC FUSE (A PHASE FOR RECEPTACLE).
- 12 PROVIDE 100A, 600V, 2P, ELECTRICALLY HELD, OPEN (PANEL MOUNT) LIGHTING CONTACTOR WITH 120V COIL.
- 13 PROVIDE 240/480V, 1PH., 3W., MLO PANELBOARD WITH COPPER BUSSING, PROVIDE BRANCH CIRCUIT BREAKERS, QUANTITY AND SIZES AS INDICATED IN PANEL SCHEDULES, NEUTRAL BUS, GROUND BUS, AND NEMA TYPE 1 SURFACE MOUNT ENCLOSURE. PROVIDE ONE 2" CHASE NIPPLE IN THE TOP, AND FOUR (4) 2" CHASE NIPPLES IN THE BOTTOM OF ENCLOSURE.
- 14 PROVIDE NIPPLE MOUNT SECONDARY SURGE ARRESTER WITH PANEL MOUNT BRACKET.
- 15 PROVIDE 20A, 120V, NEMA 5-20R, INDUSTRIAL GRADE, GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE DUPLEX RECEPTACLE WITH PVC, DEAD-END, DEEP DEVICE BOX (TYPE FD), AND MATCHING/MATING GASKETED SPRING-HINGE WEATHERPROOF PVC COVER.
- 16 PROVIDE NEMA 4/13, RAIN/TIGHT/OILTIGHT, WET LOCATIONS LISTED, NON-ILLUMINATED, MAINTAINED CONTACT, HAND-OFF-AUTO, 3-POSITION SELECTOR SWITCH COMPLETE WITH TYPE AND NUMBER OF CONTACTS REQUIRED TO IMPLEMENT SPECIFIED CONTROL, LEGEND PLATE, AND PANEL MOUNT SINGLE OPERATOR NEMA TYPE 1 ENCLOSURE. PROVIDE 1" CHASE NIPPLE IN BOTTOM OF ENCLOSURE.
- 17 PROVIDE 2000W, 120V, SPST PHOTOCELL, TORK 2100 SERIES OR APPROVED EQUAL. MOUNT PHOTOCELL WITH BOTTOM ALIGNED WITH THE TOP OF THE LOAD CENTER ENCLOSURE, AIM PHOTOCELL TOWARD THE NORTH, AND ADJUST PHOTOCELL SENSOR SLIDE SHIELD FOR OPTIMAL PERFORMANCE AS DIRECTED BY THE ENGINEER.
- 18 PROVIDE 2-#2 PH., 1-#2 NEUT., AND 1-#6 GND.
- 19 PROVIDE 2-#10 PH., 1-#10 NEUT., AND 1-#10 GND.
- 20 PROVIDE 1-#12 PH., 1-#12 NEUT., AND 1-#12 GND.
- 21 PROVIDE 1-#14 PH., 1-#14 NEUT., AND 1-#14 GND.
- 22 PROVIDE FOUR (4) 2" SCH. 40 PVC CONDUITS, TWO (2) ACTIVE AND TWO (2) SPARE, FOR LIGHTING CIRCUIT WIRING. REFER TO PLAN SHEETS FOR SPECIFICATION.
- 23 CONDUIT FOR LIGHTING CIRCUIT WIRING. REFER TO PLAN SHEETS FOR SPECIFICATION.
- 24 CONCRETE SHALL HAVE A MINIMUM STRENGTH AT 28 DAYS OF 3,000 PSI. THE OUTSIDE EDGES OF THE SLAB SHALL BE CAST AGAINST FORMWORK.
- 25 WELDED WIRE FABRIC SHALL MEET THE REQUIREMENTS OF ASTM A185.
- 26 PROVIDE CLEAN FREE DRAINING SAND, LESS THAN 5% PASSING NO. 200 SIEVE FOR BASE (4").
- 27 THE PULL BOX SHOWN IN 1'-3" SQ.; OTHERS APPROVED UNDER SECTION 635 OF THE STANDARD SPECIFICATIONS MAY BE USED.
- 28 SEAL THE 1/2" THICK EXPANSION JOINT WITH A HOT Poured ELASTIC JOINT SEALER.
- 29 PROVIDE 480-120V, SINGLE PHASE, 3W, 60HZ, 1.0KVA CONTROL POWER TRANSFORMER WITH FUSE KIT BRACKETS.
- 30 SURGE PROTECTION DEVICE (SPD):
 (a) SURGE PROTECTION DEVICE (SPD) MUST BE INSTALLED ON THE SECONDARY SIDE OF MAIN CIRCUIT BREAKER LOCATED INSIDE THE LOAD CENTER ENCLOSURE.
 (b) SPD SHALL BE MANUFACTURED BY ADVANCED PROTECTION DEVICE (APT), MODEL TE/XF.
 (c) SPD SHALL BE EQUIPPED WITH STATUS INDICATOR LIGHTS THAT ILLUMINATE GREEN DURING NORMAL OPERATION.
 (d) SPD SHALL BE UL 1449 LATEST EDITION LISTED WITH A SHORT CIRCUIT CURRENT OF 30KA OR GREATER.



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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

SERVICE POINT DETAIL	
SHEET NO.	L-35

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SERVICE POINT	CIRCUIT	CIRCUIT CONDUCTORS	BREAKER SIZE	MAIN BREAKER	MAINTAINING AGENCY
"A" STA. 1089+75 90' LT.	A-I	2 - #6	30 AMPS	100 AMPS	HIGHLANDS COUNTY
	A-II	2 - #6	30 AMPS		HIGHLANDS COUNTY
	A-III	2 - #6	30 AMPS		HIGHLANDS COUNTY
	A-IV	2 - #6	30 AMPS		HIGHLANDS COUNTY
"B" STA. 1161+70 90' LT.	B-I	2 - #6	30 AMPS	100 AMPS	HIGHLANDS COUNTY
	B-II	2 - #6	30 AMPS		HIGHLANDS COUNTY
	B-III	2 - #4	30 AMPS		HIGHLANDS COUNTY
	B-IV	2 - #4	30 AMPS		HIGHLANDS COUNTY
EXISTING "C" STA. 1070+57 LT.	C-I	2 - #6	EXISTING 30 AMPS	EXISTING 100 AMPS	CITY OF AVON PARK
	C-II	2 - #6	EXISTING 30 AMPS		CITY OF AVON PARK
	C-III	2 - #6	EXISTING 30 AMPS		CITY OF AVON PARK
	C-IV	2 - #6	EXISTING 30 AMPS		CITY OF AVON PARK

240/480V, #0, 3W WITH GROUND BUS

**LOAD CENTER "A"
PANELBOARD SCHEDULE**

100A., M.L.O.
NEMA 1 ENCLOSURE

CKT. NO.	KVA	POLE	BKR	LOAD	CKT. NO.	KVA	POLE	BKR	LOAD
1	1.9	2	30A	CIRCUIT A-1	2	1.9	2	30A	CIRCUIT A-2
3					4				
5	7.2	2	30A	CIRCUIT A-3	6	7.2	2	30A	CIRCUIT A-4
7					8				
9		2	30A	SPARE	10		2	30A	SPARE
11					12				
13				SPACE	14				SPACE
15				SPACE	16				SPACE
17				SPACE	18				SPACE
19				SPACE	20				SPACE

TOTAL CONNECTED LOAD: 18.2 KVA (138 AMPS)

240/480V, #0, 3W WITH GROUND BUS

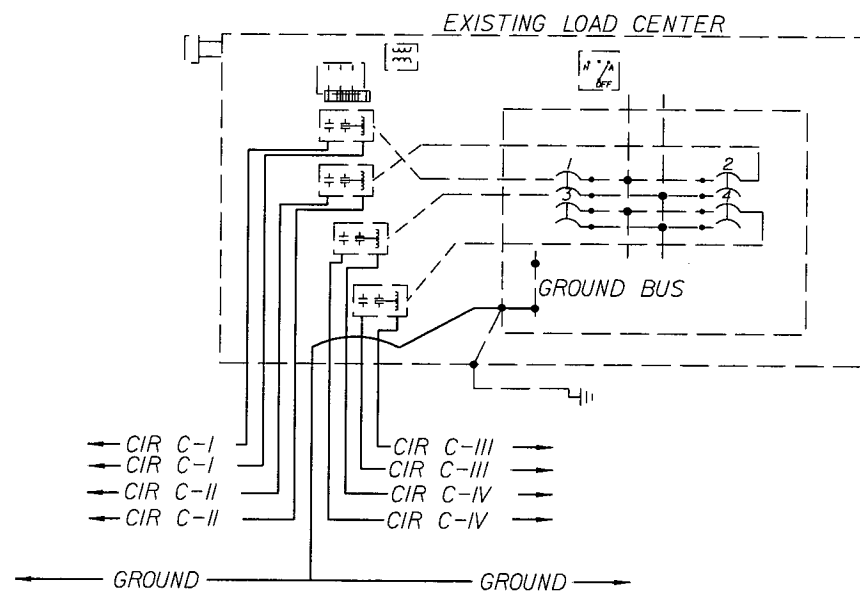
**LOAD CENTER "B"
PANELBOARD SCHEDULE**

100A., M.L.O.
NEMA 1 ENCLOSURE

CKT. NO.	KVA	POLE	BKR	LOAD	CKT. NO.	KVA	POLE	BKR	LOAD
1	7.2	2	30A	CIRCUIT B-1	2	7.2	2	30A	CIRCUIT B-2
3					4				
5	7.7	2	30A	CIRCUIT B-3	6	7.7	2	30A	CIRCUIT B-4
7					8				
9		2	30A	SPARE	10		2	30A	SPARE
11					12				
13				SPACE	14				SPACE
15				SPACE	16				SPACE
17				SPACE	18				SPACE
19				SPACE	20				SPACE

TOTAL CONNECTED LOAD: 29.8 KVA (62 AMPS)

NOTE:
1. ALL PROPOSED BRANCH CIRCUIT BREAKERS SHALL HAVE MINIMUM I.C. 18,000 AMPS SYMMETRICAL.



LOAD CENTER 'C' SCHEMATIC DETAIL
N.T.S.

240/480V, #0, 3W

**EXISTING LOAD CENTER "C"
PANELBOARD SCHEDULE**

100A., M.L.O.

CKT. NO.	KVA	POLE	BKR	LOAD	CKT. NO.	KVA	POLE	BKR	LOAD
1	2.9	2	30A	CIRCUIT C-I	2	2.9	2	30A	CIRCUIT C-III
3					4				
5	1.9	2	30A	CIRCUIT C-II	6	1.9	2	30A	CIRCUIT C-IV
7					8				
9					10				SPACE
11				SPACE	12				SPACE
13				SPACE	14				SPACE
15				SPACE	16				SPACE
17				SPACE	18				SPACE
19				SPACE	20				SPACE

TOTAL CONNECTED LOAD: 9.6 KVA (20 AMPS)

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

URS
URS Corporation Southern
7650 West Courtney
Campbell Causeway
Tampa, FL 33607-1462
Certificate of Authorization No. 00000002
Shahzad Ahmed, P.E. No. 68863

**STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION**

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
25	HIGHLANDS	194485-1-52-01

PANEL SCHEDULE

SHEET NO.
L-36

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68G15-23.003, F.A.C.

GENERAL NOTES

DESIGN METHODS:

LOAD RESISTANCE FACTOR DESIGN.

CONCRETE:

CLASS	MINIMUM 28-DAY COMPRESSIVE STRENGTH	LOCATION
IV	$f'_c = 5500$ PSI	LUMINAIRE SPREAD FOOTING

REINFORCING STEEL:

REINFORCEMENT CAN BE EITHER DEFORMED BAR REINFORCEMENT OR WELDED WIRE FABRIC. BAR REINFORCEMENT SHALL BE ASTM A615, GRADE 60. DEFORMED WELDED WIRE FABRIC SHALL HAVE A DESIGN STRENGTH OF 65 KSI.

CONCRETE COVER:

CONCRETE COVER SHOWN IN THE PLANS DOES NOT INCLUDE REINFORCEMENT PLACEMENT AND FABRICATION TOLERANCE UNLESS SHOWN AS "MINIMUM COVER". SEE FDOT STANDARD SPECIFICATIONS FOR ALLOWABLE REINFORCEMENT PLACEMENT TOLERANCES.

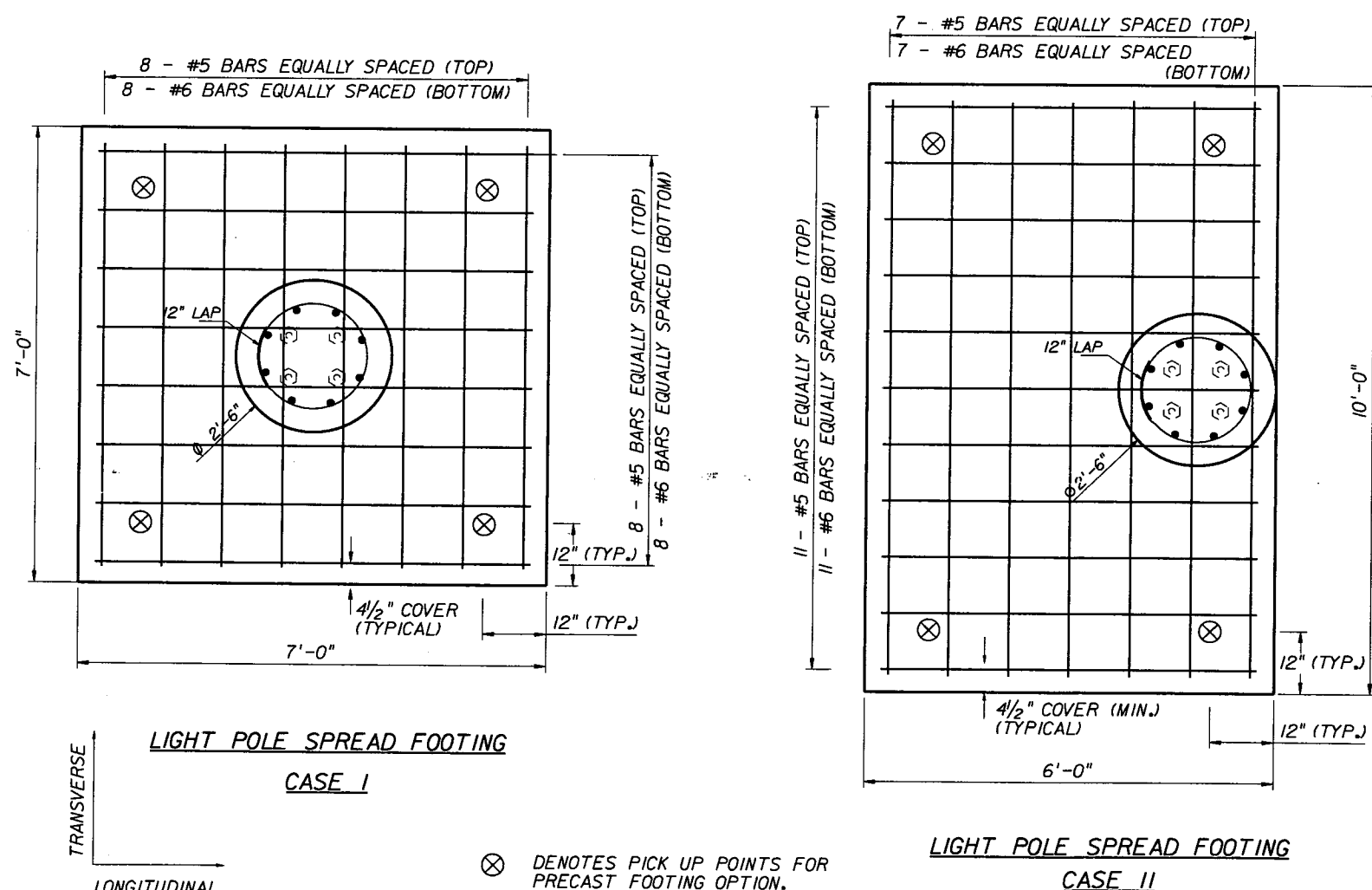
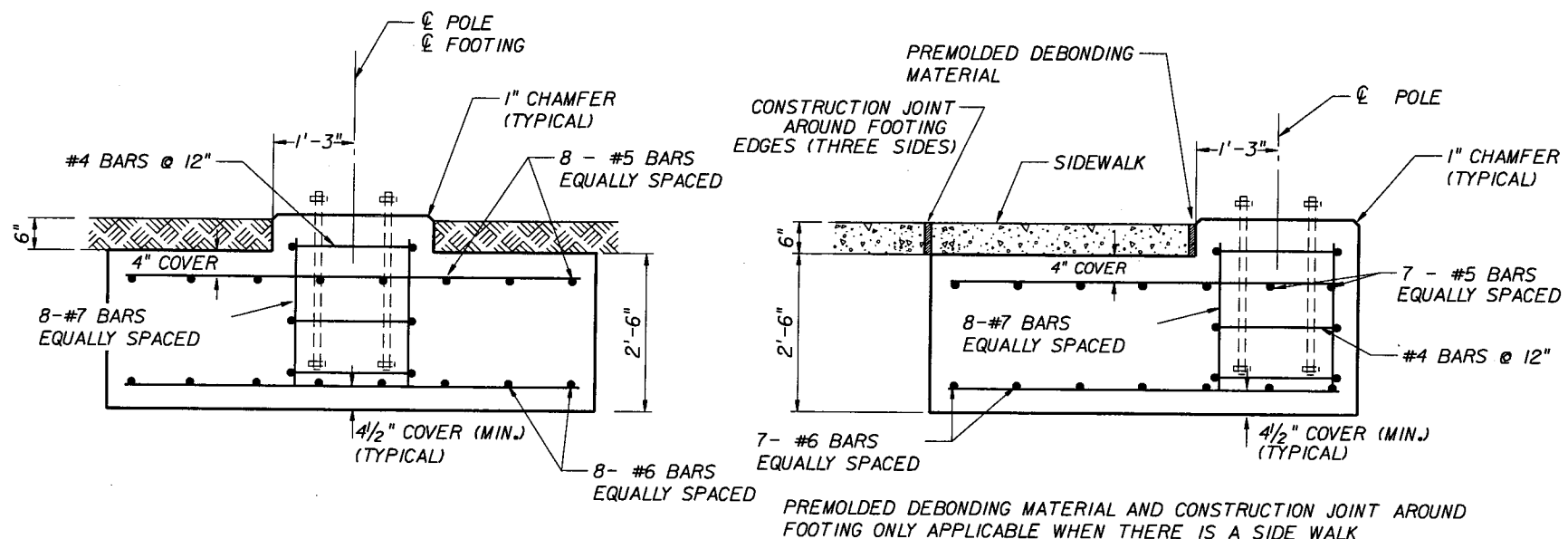
LUMINAIRE SPREAD FOOTING NOTES:

1. AT THE CONTRACTORS RISK, BASED ON THE EXISTING UTILITIES, HE MAY SUBSTITUTE THE SPREAD FOOTING WITH THE DRILL SHAFT AS SHOWN IN INDEX 17503 OF THE FDOT DESIGN STANDARDS.
2. THE COST OF THE FOOTING IS INCLUDED IN THE PAY ITEM NUMBER FOR LIGHT POLE COMPLETE.
3. SOIL BELOW FOOTING TO HAVE A MINIMUM BEARING CAPACITY OF 2.5 klp/sq ft.
4. ANCHOR BOLTS ARE TO HAVE A MINIMUM OF 4 1/2 INCH CONCRETE COVER AT THE BOTTOM OF THE FOOTING. INCREASE HEIGHT OF PEDESTAL AS REQUIRED TO ACCOMMODATE LONGER BOLTS.
5. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANCHOR BOLTS THAT EFFECTIVELY TRANSMIT THE LIGHT POLE LOAD TO THE SHAFT AND THAT FIT THE REINFORCING CAGE. THE CONTRACTOR MUST ALSO VERIFY THAT THE FORCES OF THE LIGHT POLE DO NOT EXCEED THE DESIGN LOADS OF THIS FOOTER. CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA SHALL BE SUBMITTED BY THE CONTRACTOR TO THE DEPARTMENT FOR REVIEW AND APPROVAL SHOWING THAT THESE REQUIREMENTS HAVE BEEN MET PRIOR TO CONSTRUCTION.
6. THE PULL BOX WILL BE INSTALLED ADJACENT TO AND NOT ABOVE THE FOOTING, THEREFORE ALLOWING ADEQUATE DRAINAGE OF THE PULL BOX.
7. DESIGN LOADS NOT TO EXCEED:

MOMENT IN TRANSVERSE DIR. = 23.2 FT * KIP	MOMENT IN LONGITUDINAL DIR. = 23.2 FT * KIP
TORSION = 2.32 FT * KIP	
AXIAL = 0.37 KIP	
SHEAR IN TRANSVERSE DIR. = 0.80 KIP	SHEAR IN LONGITUDINAL DIR. = 0.80 KIP
8. ALL CONDUIT SHOULD BE RIGID GALVANIZED STEEL OR SCHEDULE 40 PVC. BENDS IN CONDUIT SHALL BE MADE USING A RADIUS NOT LESS THAN 11 IN. LOCATION OF THE CONDUIT SHALL BE VERIFIED PRIOR TO CONSTRUCTION (CONDUIT NOT SHOWN FOR CLARITY).
9. SPREAD FOOTING MAY BE CAST IN PLACE OR PRECAST. FOR PRECAST OPTION, SHOP DRAWINGS SHALL BE SUBMITTED TO THE DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO COMMENCE CONSTRUCTION.

PRECAST OPTION FOOTING NOTES:

1. SURFACE FINISH: THE EXPOSED PART OF THE PEDESTAL SHALL HAVE A CLASS 3 FINISH.
2. HANDLING: PRECAST CONCRETE FOOTINGS MUST BE MAINTAINED IN A FLAT POSITION. THEY MUST BE PICKED UP FROM TWO (2) POINTS LOCATED AT EACH END.
3. STORAGE AND TRANSPORTATION: ALL PRECAST CONCRETE FOOTINGS MUST BE STORED ON ADEQUATE DUNNAGE. THE PRECAST CONCRETE FOOTING MUST BE SUPPORTED NO CLOSER THAN 6 INCHES AND NO FURTHER THAN 18 INCHES FROM THE END.
4. MARKING: EACH PRECAST CONCRETE FOOTING SHALL BE MARKED SHOWING CASTING DATE, AND IDENTIFICATION LETTERS AND NUMBERS.
5. WHEN WELDED WIRE FABRIC IS USED, THE AREA MUST BE AT LEAST EQUAL TO THE AREA OF THE REINFORCEMENT SHOWN IN THE DRAWING.

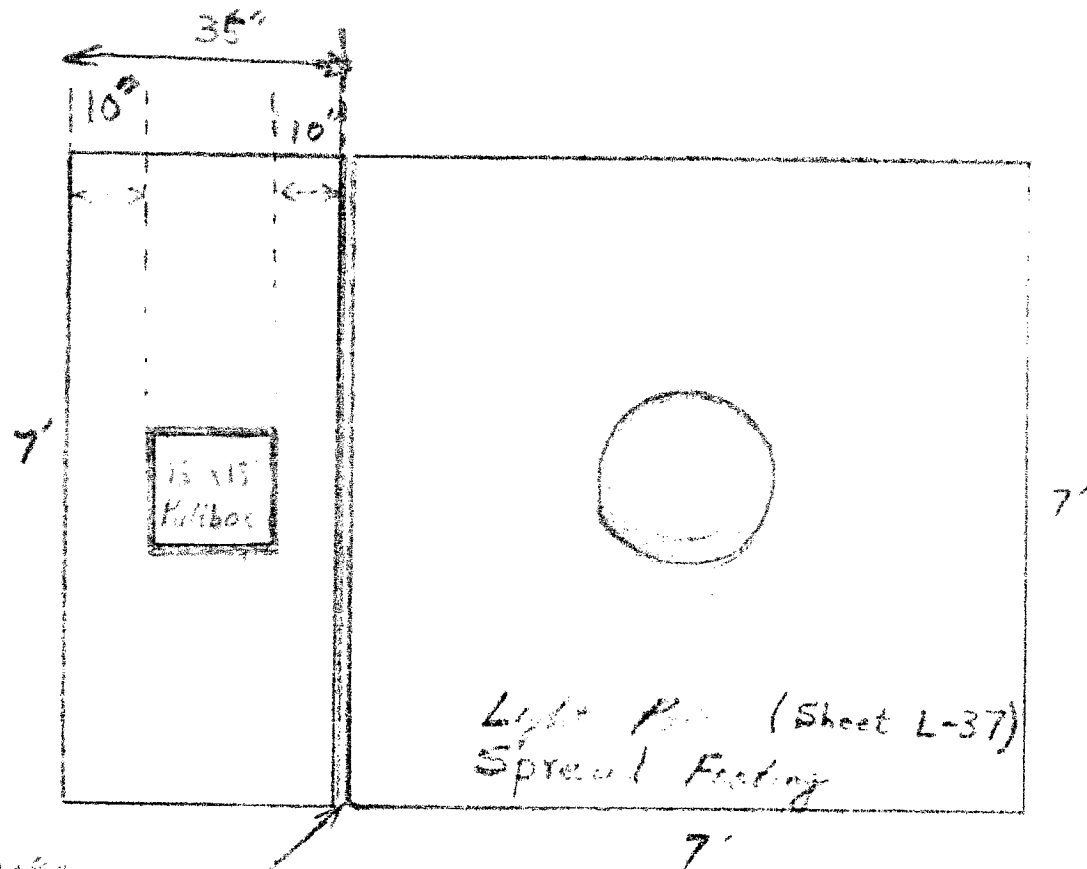


⊗ DENOTES PICK UP POINTS FOR PRECAST FOOTING OPTION.

REVISIONS						STRUCTURES DESIGN OFFICE DISTRICT 1 801 N. Broadway Bartow, Florida 33830-3809 Gerard Moliere, P.E., No. 46735	DRAWN BY: ADR 12-09 CHECKED BY: ASA 12-09 DESIGNED BY: ADR 12-09 CHECKED BY: ASA 12-09	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: LIGHT POLE SPREAD FOOTING	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							25	HIGHLANDS	194485-1-52-01	SR 25	L-37	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6695-23.003, F.A.C.

Job _____ Page _____ of _____
 Project No. _____ Sheet _____ of _____
 Description _____ Computed by _____ Date _____
 Checked by _____ Date _____
 Reference _____



Roadway Side

REQUEST FOR INFORMATION

FPN: 194485-1-52-01 Date: 9/18/2012
 SR 25 (US 27) AMEC RFI No.: A010
 From A Pt. N of W Lake Isis Ave. to the Polk County Line
 Contract No. T1403

To: <u>Jeff Blazowski</u>	From: <u>Agradina Ortega</u>
Of: <u>URS Corporation, Inc.</u> Company	Of: <u>AMEC Environmental & Infrastructure, Inc.</u> Company
Phone: <u>(813) 675-6609</u>	Phone: <u>(863) 453-0443</u>
email: <u>Jeff.Blazowski@URSCorp.com</u>	email: <u>Agradina.Ortega@amec.com</u>

REFERENCE: Lighting Plans No. L-37
 DESCRIPTION: Light Poles and Pull Boxes - Slab details

- * As per the plan sheet L-37 the contractor placed the light pole foundations using a spread footer.
- * The plans make reference to Index No. 17503, however that index is not available.
- * As per 2010 Interim Design Standard Index number 17500 (Page 3 of 3) note #6... "Slabs to be placed around all Poles and Pull Boxes in rural locations. In urban areas or where space is limited slab dimensions may be adjusted as shown in the plans." However, the typical section shown in the plans on sheet L-37 do not show a concrete pad around the pole base and does not show the placement of the pull box. If we use the Index Standard it will have to be modified to accommodate the extra width of the spread footer the pull box being placed 1'2" from the pole base and the edge of the footer is 2.25' from the edge of the pole mounting area.
- * Does the Contractor needs to place a concrete pad on top of the footer or just place the pad around the pull box?
- * If so, what are the dimensions?

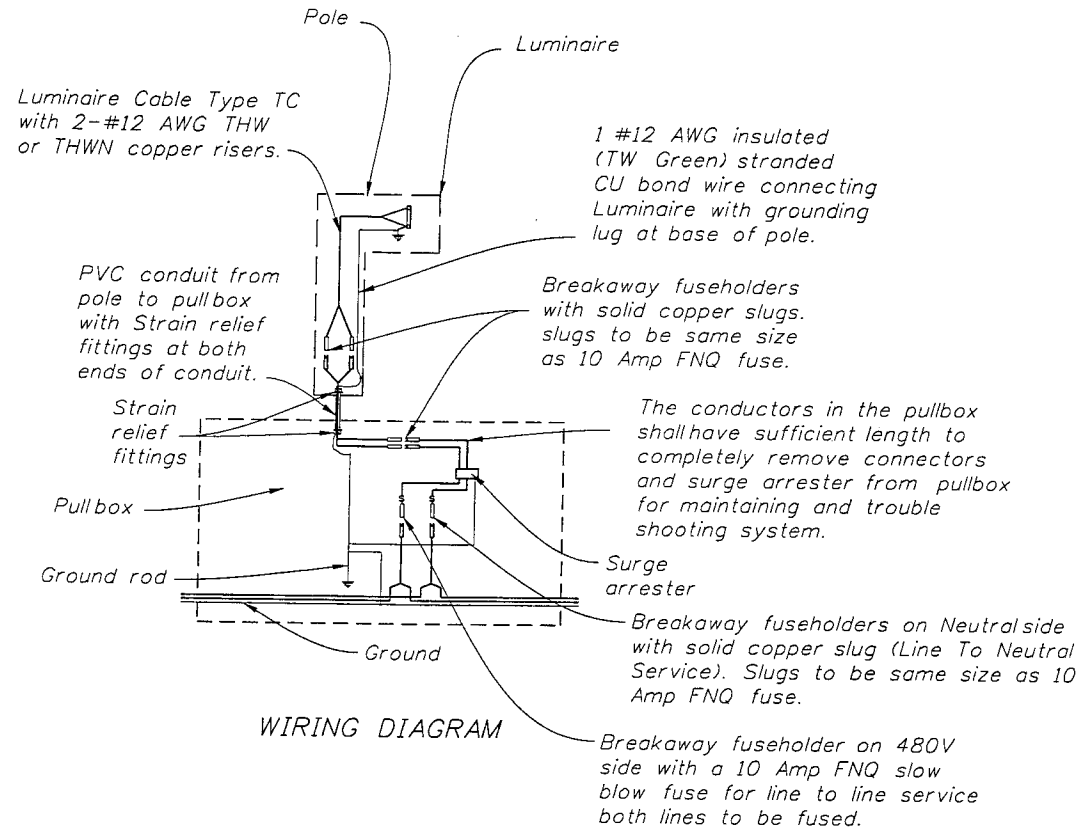
Requested Response Date: 09/21/12 Submitted By: [Signature]
 Signature

Verbal Reply Given to _____ on _____
 Name of Person Date

REPLY:
 See that attached drawings for details on the pull box arrangement with the spread footing option.

Document Scanned
 Date 10/31/2012
 Initial gms
 HB# 935232

Reply Prepared By: Jeff Blazowski
 Name
[Signature] Date: #####
 Signature



WIRING DIAGRAM

Provide cable length to remove fuseholders from transformer base, pole base or pullbox for maintenance. Remove slack from the luminaire cable to provide tension on the fuseholders if the pole breaks away. Pull excess cable into pullbox tighten strain relief fittings or cable clamps at both ends of conduit to prevent cable from slipping.

Breakaway fuseholders with solid copper slugs. Slugs to be same size as 10 Amp FNQ fuse.

Breakaway fuseholder on 480V side with a 10 Amp FNQ slow blow fuse for line to line service both lines to be fused.

Breakaway fuseholders on Neutral side with solid copper slug (Line To Neutral Service). Slugs to be same size as 10 Amp FNQ fuse.

1 #6 AWG insulated (TW Green) stranded CU bond wire connecting all poles, and insulated (THW or THWN) stranded copper circuit conductors in schedule 40 PVC conduit. Circuit conductors and conduit size as shown in plans. (Typical)

12" bed of Pearrock or crushed stone for drainage.

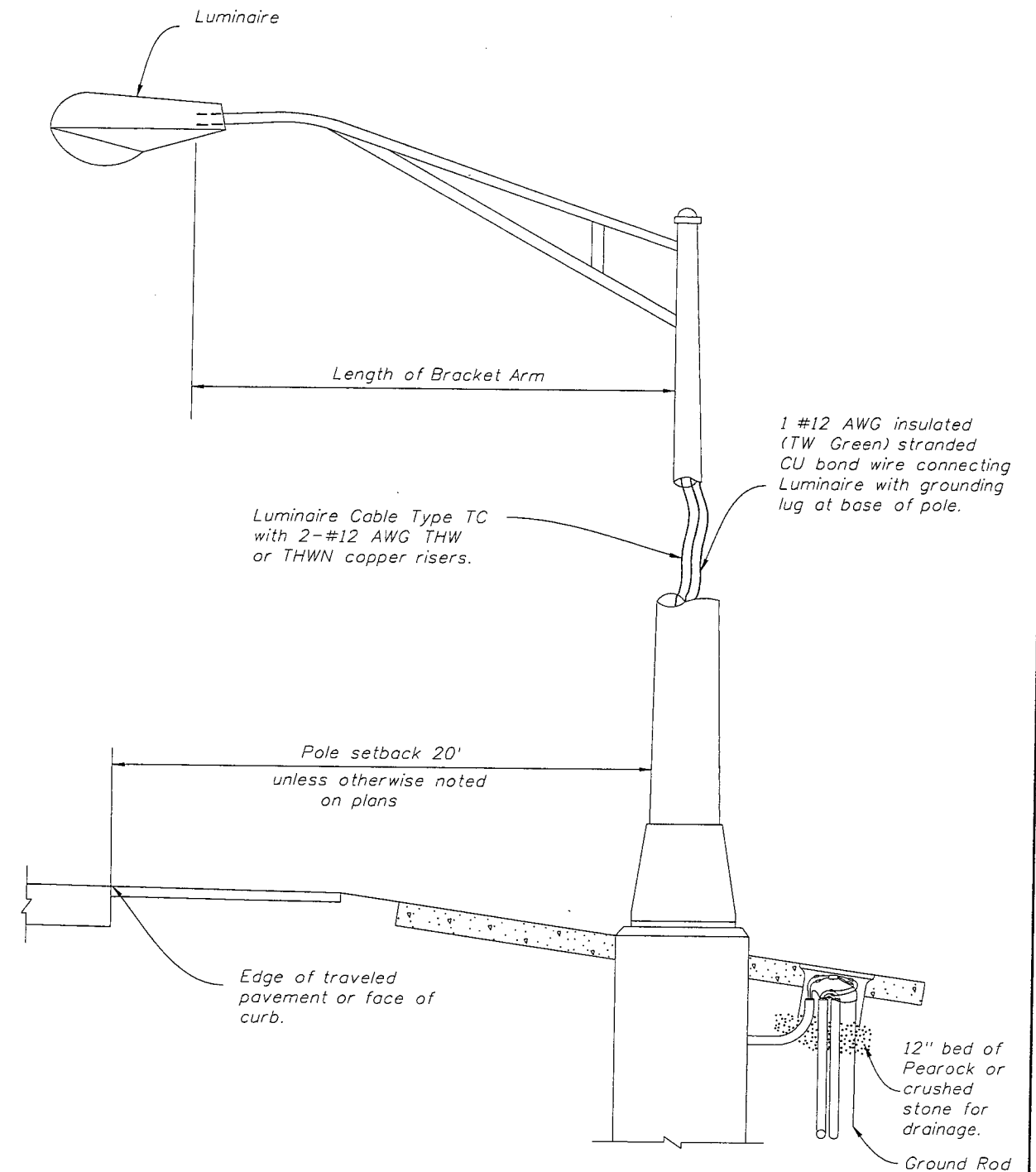
#6 TW Green Ground Wire

U.L. approved Ground Rod 5/8" diameter 20' long copper clad with approved ground connection (At all pullboxes)

METAL POLE WIRING DETAIL

NOTES:

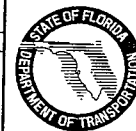
1. Barrier wall or bridge mounted poles: The wiring shall be in accordance with Section 992 of the Standard Specifications.



METAL POLE DETAIL

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
06/22/10	C.H.	Removed Grounding Conduit Between PullBox and Pole. Ran Ground Wire in Conduit with Hot and Neutral Wires.			



2010 Interim Design Standard

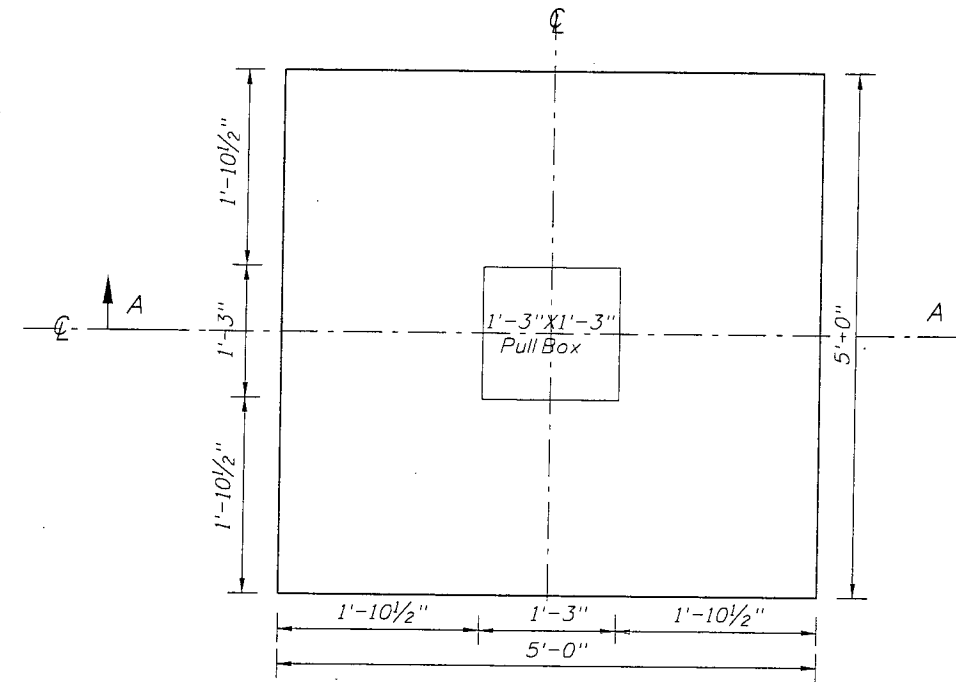
CONVENTIONAL LIGHTING

WIRING DETAILS

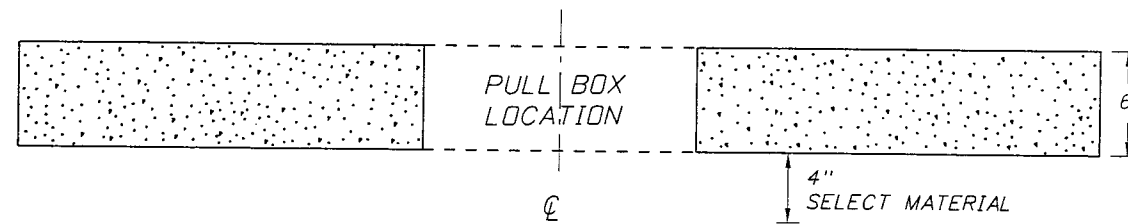
Interim Date	Sheet No.
07/01/10	1 of 3
Index No.	
17500	

NOTES:

1. Use compacted select material in accordance with Index 505.
2. Concrete shall be Class NS with a minimum strength at 28 days of $f'c=2.5$ ksi.
3. Outside edge of slab shall be cast against formwork.
4. The pullbox shown is 1'-3" x 1'-3"; others approved under Section 635 of the Standard Specifications may be used.
5. Slabs to be placed around all Poles and Pull Boxes in rural locations. In urban areas or where space is limited slab dimensions may be adjusted as shown in the plans.
6. Concrete for slabs around pullboxes shall be included in the price of pull box.



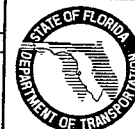
SLAB DIMENSIONS



SECTION A-A

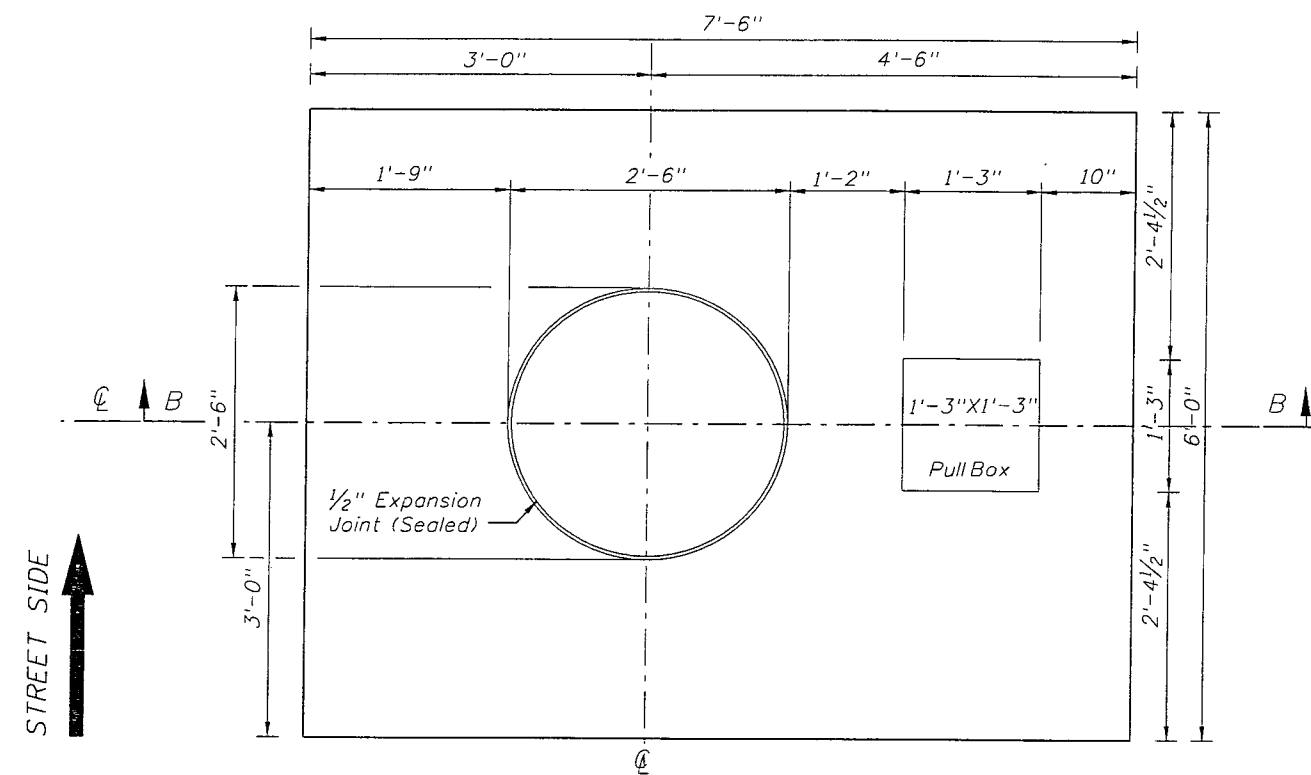
SLAB DETAILS FOR INTERMEDIATE PULLBOX LOCATIONS

REVISIONS						2010 Interim Design Standard		Interim Date	Sheet No.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	CONVENTIONAL LIGHTING		07/01/10	2 of 3
06/10/10	C.H.	Reinforcing removed from slabs, notes revised, new dimensions were added to slab dimensions.							
							Index No.		17500

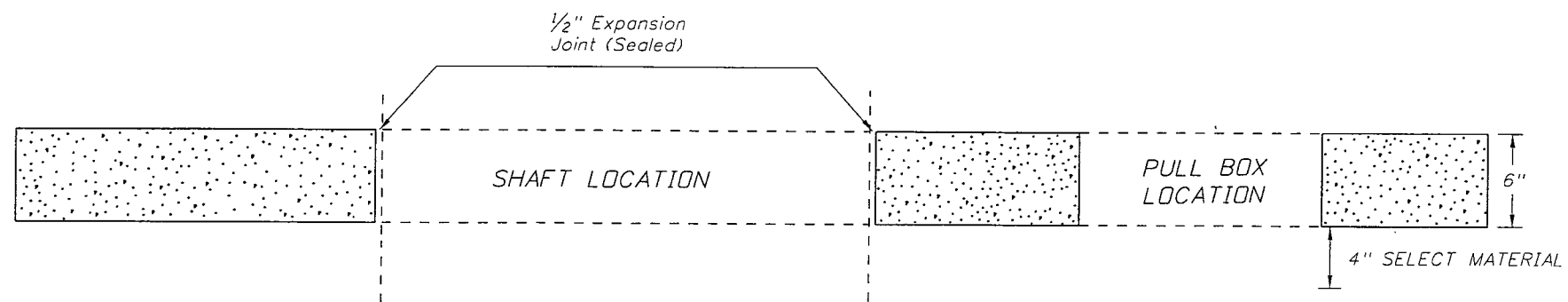


NOTES:

1. Use compacted select material in accordance with Index 505.
2. Concrete shall be Class NS with a minimum strength at 28 days of $f'c=2.5$ ksi.
3. Outside edge of slab shall be cast against formwork.
4. The pull box shown is 1'-3" x 1'-3"; others approved under Section 635 of the Standard Specifications may be used.
5. Slabs to be placed around all Poles and Pull Boxes in rural locations. In urban areas or where space is limited slab dimensions may be adjusted as shown in the plans.
6. Concrete for slabs around poles and pull boxes shall be included in the price of pole or pull box.
7. The $\frac{1}{2}$ " thick expansion joint between the pole shaft and slab shall be sealed with a hot poured elastic joint sealer.



SLAB DIMENSIONS



SECTION B-B

SLAB DETAILS
FOR POLE AND PULL BOX LOCATIONS

REVISIONS				DATE		DESCRIPTION		2010 Interim Design Standard		Interim Date	Sheet No.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					07/01/10	3 of 3
06/10/10	C.H.	Reinforcing removed from slab, notes revised, new dimensions were added to slab dimensions.									



CONVENTIONAL LIGHTING

Index No.
17500