

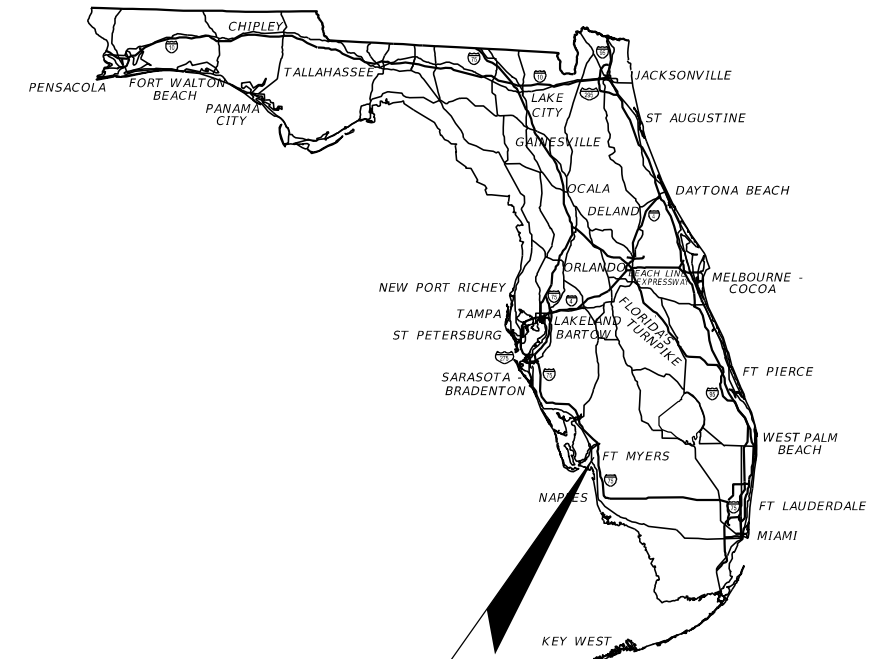
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

ORTIZ AVENUE WIDENING

FROM SR 884 TO SR 82

LEE COUNTY
COUNTY ROAD NO. 865

LIGHTING PLANS



PROJECT LOCATION
<https://goo.gl/maps/pkUqGrXMQNMU8KZv7>

INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3 - L-4	TABULATION OF QUANTITIES
L-5 - L-6	GENERAL NOTES
L-7	LIGHTING DATA TABLE AND LEGEND
L-8 - L-22	LIGHTING PLAN
L-23	LIGHTING DETAILS
L-24	SPECIAL LIGHT POLE DESIGN
L-25	LIGHT POLE SPREAD FOOTING
L-26	LOAD CENTER

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY 2023-24 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY 2023-24 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

LIGHTING PLANS

ENGINEER OF RECORD:

SCOTT R. SAMUELS, P.E.
P.E. NO.: 88738
KISINGER CAMPO & ASSOCIATES CORP.
CONSULTING ENGINEERS & PLANNERS
201 N. FRANKLIN STREET, SUITE 400
TAMPA, FL 33602
PHONE: (813) 871-5331
CONTRACT NO.: CN18-8479



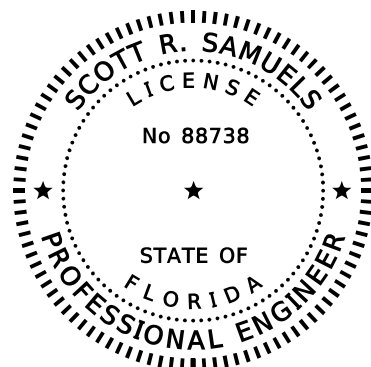
LDOT PROJECT MANAGER:

ROBERT K. PHELAN, P.E.

SHEET NO.

L-1

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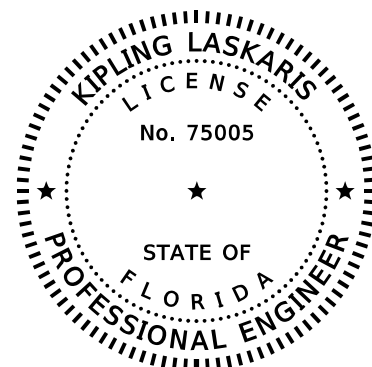
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TAMPA, FLORIDA 33602
SCOTT R. SAMUELS, 88738

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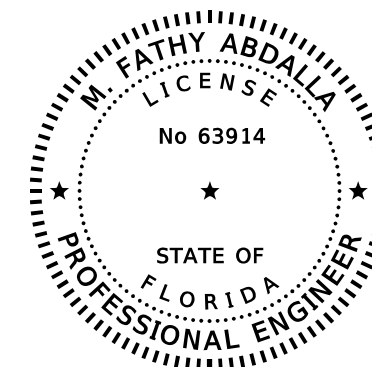
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<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
L-2	SIGNATURE SHEET
L-25	LIGHT POLE SPREAD FOOTING



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M. FATHY ABDALLA, P.E. 63914

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<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
L-2	SIGNATURE SHEET
L-26	LOAD CENTER

REVISIONS				 201 N. Franklin Street, Suite 400 Tampa, Florida 33602 Engineer of Record: Scott R. Samuels, P.E. KISINGER CAMPO & ASSOCIATES P.E. No.: 88738	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	SHEET NO. L-2
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY	CONTRACT NO.		
					CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479		

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET	
			L-8		L-9		L-10		L-11		L-12		L-13		L-14		PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	54		961		1067		1000		1082		652		483		5299	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF			93		56		275		42		41				507	
635-2-11	PULL & SPLICE BOX, F&I, 17" x 30" COVER SIZE	EA			2		2		5		2		2				13	
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS							1								1	
641-2-11	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 PEDESTAL	EA							2								2	
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF	186		3429		3609		4677		3636		2271		1545		19353	
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA							1								1	
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA							1								1	
715-511-140	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 40'	EA			6		4		5		4		1		2		22	
715-512-140	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM SHOULDER MOUNT, ALUMINUM, 40'	EA			1		2		2		3		3		2		13	


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<p style="text-align: center;">REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION					 <p>KCA KISINGER CAMPO & ASSOCIATES 201 N. Franklin Street, Suite 400 Tampa, Florida 33602 Engineer of Record: Scott R. Samuels, P.E. P.E. No.: 88738</p>			<p style="text-align: center;">LEE COUNTY DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <thead> <tr> <th>ROAD</th> <th>COUNTY</th> <th>CONTRACT NO.</th> </tr> </thead> <tbody> <tr> <td>CR 865 (ORTIZ AVE.)</td> <td>LEE COUNTY</td> <td>CN18-8479</td> </tr> </tbody> </table>			ROAD	COUNTY	CONTRACT NO.	CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479	<p style="text-align: center;">TABULATION OF QUANTITIES (1)</p>		<p>SHEET NO. L-3</p>
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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																TOTAL THIS SHEET		GRAND TOTAL	
			L-15		L-16		L-17		L-18		L-19		L-20		L-21		L-22		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	1084		1120		975		1090		1049		1040		1044		228		7630		12929	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	40				140		182		67		87		78				594		1101	
635-2-11	PULL & SPLICE BOX, F&I, 17" x 30" COVER SIZE	EA	2				4		4		2		3		3				18		31	
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS							1										1		2	
641-2-11	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 PEDESTAL	EA							2										2		4	
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF	3612		3504		3681		4648		3588		3693		3654		732		27112		46465	
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA							1										1		2	
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA							1										1		2	
715-511-140	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, SINGLE ARM SHOULDER MOUNT, ALUMINUM, 40'	EA	2		3		4		6		4		5		3		1		28		50	
715-512-140	LIGHT POLE COMPLETE- SPECIAL DESIGN, F&I, DOUBLE ARM SHOULDER MOUNT, ALUMINUM, 40'	EA	4		3		2		1		2		2		3		1		18		31	

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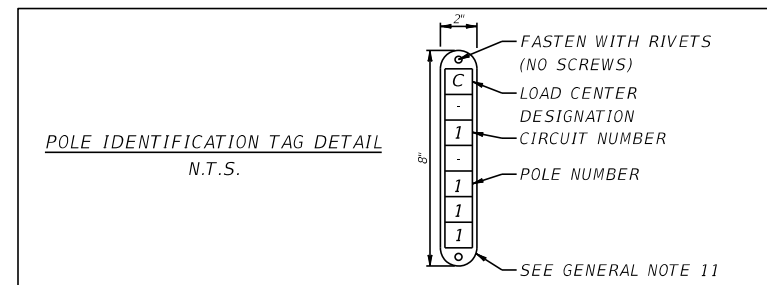
LIGHTING GENERAL NOTES


1. PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL EQUIPMENT SPECIFICATION OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT. ALL SUBMITTALS SHALL BE SENT TO LEE COUNTY DOT TRAFFIC VIA LCDOTPROJECTS@LEEGOV.COM FOR REVIEW AND APPROVAL PRIOR TO ORDERING. THESE MUST SPECIFICALLY INCLUDE:
 - A. LUMINAIRE PHOTOMETRICS
 - B. POLE STRENGTH CALCULATIONS AND POLE SHOP DRAWINGS FOR PAY ITEMS 715-511-140 AND 715-512-140
 - C. POLE FRANGIBILITY TEST
 - D. ANCHOR BOLT DESIGN CALCULATIONS AND SHOP DRAWINGS
 - E. DISTRIBUTION POINT ELECTRICAL EQUIPMENT
2. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNER(S) AND ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OWNER(S) FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING.
3. STATE OF FLORIDA STATUTE 556 (2008) REQUIRES THAT BEFORE EXCAVATION, NOTICE BE GIVEN TO THE SUNSHINE STATE ONE CALL OF FLORIDA, INC. (SSOCOF) A MINIMUM OF TWO (2) FULL BUSINESS DAYS AT 1-800-432-4770. NOT ALL UTILITY COMPANIES ARE MEMBERS OF SSOCOF.
4. 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.
5. ALUMINUM POLES, LUMINAIRES, AND BASES SHALL BE FABRICATED IN ACCORDANCE WITH AASHTO'S "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AND SHALL HAVE BEEN TESTED BY FHWA APPROVED METHODS (LATEST EDITION). CERTIFICATION FOR TESTS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
6. SHOP DRAWING SUBMITTAL DATA SHALL INCLUDE COMPUTER PRINTOUT SHOWING HORIZONTAL FOOT CANDLE LEVELS TO BE OBTAINED USING SUBMITTED LUMINAIRES ON THIS PROJECT. AT FINAL INSPECTION THE CONTRACTOR SHALL VERIFY THE HORIZONTAL FOOT CANDLE LEVELS ON THE ROADWAY WITH AN APPROVED CURRENTLY CALIBRATED LIGHT METER AND SUBMIT REPORT FOR APPROVAL.
7. ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NESC) AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER N.E.C. REQUIREMENTS.
8. 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.
9. THE CONTRACTOR SHALL NOTIFY FPL AT LEAST 48 HOURS PRIOR TO ANY INSTALLATION THAT IS WITHIN 20 FEET OF ENERGIZED ELECTRICAL CONDUCTORS. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS.
10. PULLING INSTRUCTIONS: CONNECT PULLING DEVICES TO COPPER WIRE AND NOT TO THE JACKET AND MEET THE MANUFACTURER'S REQUIREMENTS. USE PULLING COMPOUND PER MANUFACTURER'S REQUIREMENTS. ALL BENDS SHALL NOT BE LESS THAN THE RECOMMENDED BY THE NEC OR NESC FOR THE CABLE USED.
11. 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 WHITE LETTERS ON BLUE BACKGROUND, ATTACHED WITH RIVETS (NO SCREWS). NUMBERS SHALL BE PER THE POLE IDENTIFICATION TAG DETAIL. COST OF TAGS SHALL BE INCLUDED IN THE BID ITEMS FOR THE LIGHT POLE COMPLETE. BOTTOM OF TAG SHALL BE INSTALLED 5 FEET ABOVE FINISHED GRADE. COORDINATE THE POLE NUMBER WITH LEE COUNTY MAINTENANCE.
12. THE CONTRACTOR SHALL STAKE ALL PROPOSED POLE LOCATIONS AND ENSURE THERE IS NO PROXIMITY ISSUES WITH ANY OVERHEAD ELECTRIC LINES. ALSO, REQUEST UTILITY COMPANIES TO LOCATE AND STAKE UNDERGROUND UTILITIES PRIOR TO EXCAVATING. IT IS IMPERATIVE THAT THE PROPOSED POLE LOCATIONS MEET THE MINIMUM OFFSET DISTANCE FROM ANY ACTIVE LINES PER FPL GUIDELINES.
13. DIRECTIONAL BORE OPERATIONS, IF USED, SHALL MEET THE REQUIREMENTS OF THE FDOT UTILITY ACCOMMODATION MANUAL (LATEST EDITION).
14. 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.
15. AT CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVED SAFE CROSSING BY THE END OF EACH WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. THE CONTRACTOR SHALL NOT OPEN ANY AREA THAT CANNOT BE BACKFILLED IN THE SAME WORK PERIOD.
16. ALL EXCESS DIRT AND DEBRIS EXCAVATED FROM POLE FOUNDATIONS SHALL BE REMOVED DAILY TO AREAS APPROVED BY THE ENGINEERS AND INCIDENTAL TO PAY ITEMS 715-511-140 AND 715-512-140.
17. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SIDE STREETS, PRIVATE AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING THE CONSTRUCTION OPERATION.

18. THE LIGHTING SYSTEM WILL BE MAINTAINED BY LEE COUNTY UPON FINAL ACCEPTANCE. THE CONTRACTOR SHALL SUBMIT "AS-BUILT" PLANS TO THE ENGINEER AND LEE COUNTY DOT TRAFFIC VIA LCDOTPROJECTS@LEEGOV.COM PRIOR TO FINAL ACCEPTANCE.
19. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD SHOP DRAWINGS DETAILING THE LAYOUT OF THE ELECTRICAL EQUIPMENT INSIDE THE DISTRIBUTION POINT LIGHTING ELECTRICAL ENCLOSURE.
20. ALL CONDUCTORS SHALL HAVE THWN-2 600 VOLT INSULATION.
21. CONDUIT LOCATIONS AS SHOWN ON THE PLANS ARE DIAGRAMMATIC. CONDUITS MUST BE PLACED WITHIN THE ROADWAY LIMITS, BUT CAN BE ADJUSTED TO FIT AROUND 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 MINIMUM OF 4" X 4" OF CONCRETE. COST OF SUCH TREATMENT WILL BE INCIDENTAL TO PAY ITEMS PROVIDED.
22. THE CONTRACTOR SHALL PREPARE ACCURATELY DIMENSIONED "AS-BUILT" PLANS OF FINAL POLE, CONTROLLER, AND CONDUIT LOCATIONS. "AS-BUILT" PLANS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO FINAL ACCEPTANCE. AFTER THE "AS-BUILT" PLANS ARE APPROVED, THE CONTRACTOR SHALL SUBMIT TWO COPIES TO THE RESIDENT ENGINEER AND ONE COPY TO THE LEE COUNTY MAINTENANCE. COST OF SUCH PREPARATION SHALL BE INCIDENTAL TO THE PAY ITEMS PROVIDED.
23. SPLICES AND CONNECTIONS MADE IN PULL BOXES SHALL BE LIMITED TO THE SERVICE POINT AND CONDUIT JUNCTION WITH MULTI-DIRECTIONAL CONDUITS AS INDICATED ON THE PLANS. THE SPLICES AND CONNECTION MADE AT THESE POINTS SHOULD BE PROPERLY TAPED, PROVIDED WITH HEAT SHRINK TUBES OR CAPS TO WATERPROOF THESE CONNECTIONS. SPLICES SHALL BE ENCAPSULATED.
24. 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 PULL BOXES TO MARK ENDS OF EMPTY CONDUITS.
25. THE CONTRACTOR SHALL CONTACT THE POWER COMPANY TO DETERMINE IF A SERVICE PROCESSING FEE IS REQUIRED. THE FEE SHALL BE INCLUDED AS PART OF PAYMENT FOR THE LOAD CENTER.
26. THE CONTRACTOR SHALL USE THE CONCRETE FOUNDATION PER INDEX 715-002 (SCREW TYPE FOUNDATION IS NOT ALLOWED).
27. ALL POLE FOUNDATIONS SHOULD BE 2" ABOVE GRADE AT ALL LOCATIONS. IF ADJUSTMENTS ARE NECESSARY PLEASE NOTIFY ENGINEER.
28. WHEN PRACTICAL, EXISTING LIGHTING IS TO REMAIN IN SERVICE DURING ALL PHASES OF CONSTRUCTION OR UNTIL NEW LIGHTING IS INSTALLED AND PLACED IN SERVICE.
29. THE DISPOSITION OF THE EXISTING LIGHT POLES ARE TO BE REMOVED AND SALVAGED BACK TO LEE COUNTY VIA AGREEMENT WITH FPL.

CONVENTIONAL ROADWAY LIGHTING ILLUMINATION CRITERIA

AVERAGE INITIAL INTENSITY (HORIZONTAL FOOT CANDLES)	1.5 FOOT CANDLES
UNIFORMITY RATIO AVG./MIN.	4:1 OR LESS
MAX./MIN.	10:1 OR LESS
VEILING LUMINANCE RATIO	0.3:1 OR LESS
DESIGN WIND SPEED	160 MPH



REVISIONS				 201 N. Franklin Street, Suite 400 Tampa, Florida 33602 Engineer of Record: Scott R. Samuels, P.E. P.E. No.: 88738	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY	CONTRACT NO.	
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								L-5

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PAY ITEM NOTES

630-2-11:

PVC CONDUIT SHALL BE SCHEDULE 40 OR SCHEDULE 80 APPROVED FOR ELECTRICAL USE (GRAY). NO THIN WALL CONDUIT IS ALLOWED. TWENTY (20) FOOT LENGTHS ON RUNS OVER TWENTY (20) FOOT SHALL BE USED. ALL PVC CONDUIT SHALL BE JOINED TOGETHER WITH LONG LINE COUPLINGS. ALL CONDUITS LARGER THAN 3/4 INCH SHALL HAVE END BELLS INSTALLED AT EACH END TO PROTECT THE CABLE.

630-2-12:

DIRECTIONAL BORE CONDUIT FOR GENERAL SIGNALIZATION AND STREET LIGHTING SHALL BE TWO (2) INCH CONTINUOUS HDPE SDR 11 AND SHALL BE GRAY IN COLOR. NO OTHER CONDUIT COLOR CAN BE USED UNLESS APPROVED BY LEE COUNTY DOT TRAFFIC IN WRITING. WHEN CONNECTING HDPE CONDUIT TO STANDARD PVC CONDUIT A REVERSE THREAD COUPLING OR E-LOC COUPLING SHALL BE USED. USE OF A STANDARD PVC COUPLING IS PROHIBITED.

635-2-11:

PULL BOXES SHALL BE POLYMER CONCRETE CONSTRUCTION (QUAZITE), HAVE ANSI TIER RATING OF T22 AND DESIGN LOAD RATING OF 22,500 LBS., NO EXCEPTIONS WILL BE PERMITTED. MINIMUM PULL BOX SIZE SHALL BE AS FOLLOWS:

- I. TRAFFIC SIGNAL AND STREET LIGHTING 17" X 30" X 12" - PG1730BA12

PULL BOX COVERS SHALL BE POLYMER CONCRETE CONSTRUCTION (QUAZITE), HAVE ANSI TIER RATING OF T22 AND DESIGN LOAD RATING OF 22,500 LBS., AND MARKED APPROPRIATELY, "TRAFFIC SIGNAL" OR "STREET LIGHTING", NO EXCEPTIONS WILL BE PERMITTED.

- I. 17" X 30" COVER - "TRAFFIC SIGNAL" - PG1730HH0046, "STREET LIGHTING" - PG1730HH0041

ALL PULL BOXES SHALL HAVE A CONCRETE APRON; THE APRON SHALL BE MINIMUM 1-FOOT WIDE X 6 INCHES DEEP. APRON SHALL BE LEVEL TO EXISTING GRADE AND HAVE A FINISHED EDGE AND SURFACE. ALL CONDUITS EXCEPT FOC CONDUIT SHALL BE PLUMBED, CENTERED AND NO LOWER/HIGHER THAN MIDPOINT IN THE PULL BOX.

639-1-122 AND 715-7-11:

ALL ELECTRIC SERVICES, AND LOAD CENTERS SHALL NOT BE PLACED IN DITCHES, DRAINAGE SLOPES, SWALES, OR WHERE SHEET OR STANDING WATER CAN INTRUDE. ROADWAY STREET LIGHTING ELECTRIC SERVICE/LOAD CENTER SHALL BE MOUNTED ON TWO (2) - EIGHT (8) INCH X EIGHT (8) INCH X TWELVE (12) FOOT CONCRETE SERVICE POLES. A 100 AMP 600 VAC RATED NEMA 3R NON-FUSIBLE SINGLE THROW SAFETY SWITCH DISCONNECT (SQUARE D - HU363RB) SHALL BE INSTALLED ON THE CONCRETE SERVICE POLES, ON THE LINESIDE OF THE METER SOCKET.

THE METER SOCKET SHALL BE A 200 AMP LEVER BYPASS NEMA 3R ENCLOSURE RATED FOR OUTDOOR USE (MILBANK UAP9551-X-QG-HSP). METER SOCKET SHALL BE INSTALLED ON THE LOAD SIDE OF SAFETY SWITCH DISCONNECT ON THE CONCRETE SERVICE POLES. THE ROADWAY STREET LIGHTING LOAD CENTER ENCLOSURE CABINET SHALL BE STAINLESS STEEL NEMA 3R RAINPROOF ENCLOSURE AND APPROVED BY LEE COUNTY DOT TRAFFIC.

THE FOLLOWING IS LEE COUNTY DOT TRAFFIC APPROVED ROADWAY STREET LIGHTING LOAD CENTER WITH NEEDED COMPONENTS:

- A. SQUARE D NIGHT-MASTER LONG VERSION (8903-SQH63-V06)
- B. BUSSMANN FUSE BLOCK 3 POLE 30 AMP (R60030-3CR) ONE (1) PER EACH CIRCUIT (FOUR (4) CIRCUITS MAX PER LOAD CENTER)
- C. ONE (1) SQUARE D SPD 40KA 480V (SDSA3650) (MOUNTED INTERNALLY)
- D. ONE (1) GE LIGHTING PHOTOELECTRIC MOUNTING BRACKET (MB-PECTL-GE)
- E. ONE (1) INTERMATIC 480VAC TWIST LOCK PHOTO CELL (LC4535LA)
(PHOTO CELL SHALL BE MOUNTED EXTERNALLY ON TOP LEFT OF NIGHT-MASTER, WHEN FACING NIGHT-MASTER ACCESS DOOR)

ALL LOAD CENTERS SHALL HAVE A MINIMUM FIVE (5), TEN (10) FOOT LENGTH 5/8" COPPER CLAD GROUND ROD INSTALLED, AND SHALL HAVE A GROUND RESISTANCE READING OF 5 OHMS OR LESS.

715-500-1:

ALL DOUBLE STREETLIGHT ARM POLES SHALL HAVE SIX (6) #10 AWG (THHN/THWN-2) 2-BLACK, 2-WHITE, AND 2-GREEN WIRE FROM LUMINAIRE TO T-BASE, AND SHALL INCLUDE ONE (1) BREAKAWAY FUSE HOLDER WITH LINESIDE TERMINAL HAVING A CU DUAL SETSCREW AND THE LOADSIDE TERMINAL HAVING CU CRIMP CONNECTOR. (BUSSMANN - HEB-AW-RYC) AND HAVE ONE (1) BREAKAWAY NEUTRAL FUSE HOLDER WITH PERMANENTLY INSTALLED SOLID NEUTRAL, WITH LINESIDE TERMINAL HAVING A CU DUAL SETSCREW AND THE LOADSIDE TERMINAL HAVING CU CRIMP CONNECTOR (BUSSMANN-HET-AW-RYC) FOR EACH LUMINAIRE AND SHALL BE LOCATED IN THE HAND HOLE COMPARTMENT OF T-BASE. A 480VAC SURGE ARRESTOR (ASCO MODEL 235 - 235480LF030AWLN0) OR (HESCO/RLS HE480BW) AND SHALL BE INSTALLED USING BUTT CRIMP CONNECTORS.

STREET LIGHT POLE ASSEMBLY SHALL BE GROUNDED USING A #6 GREEN AWG WIRE FROM GROUND TO THE T-BASE GROUND TERMINAL LUG.


ALL STREET LIGHT POLES SHALL HAVE A MINIMUM OF TWO (2), TEN (10) FOOT LENGTH 5/8" COPPER CLAD GROUND ROD SHALL BE INSTALLED, AND SHALL HAVE A GROUND RESISTANCE READING OF 15 OHMS OR LESS.

ALL SINGLE STREETLIGHT ARM POLES SHALL HAVE THREE (3) #10 AWG (THHN/THWN-2) 1-BLACK, 1-WHITE, AND 1-GREEN WIRE FROM LUMINAIRE TO T-BASE, AND SHALL INCLUDE ONE (1) BREAKAWAY FUSE HOLDER WITH LINESIDE TERMINAL HAVING A CU DUAL SETSCREW AND THE LOADSIDE TERMINAL HAVING CU CRIMP CONNECTOR. (BUSSMANN - HEB-AW-RYC) AND HAVE ONE (1) BREAKAWAY NEUTRAL FUSE HOLDER WITH PERMANENTLY INSTALLED SOLID NEUTRAL, WITH LINESIDE TERMINAL HAVING A CU DUAL SETSCREW AND THE LOADSIDE TERMINAL HAVING CU CRIMP CONNECTOR (BUSSMANN-HET-AW-RYC) FOR EACH LUMINAIRE AND SHALL BE LOCATED IN THE HAND HOLE COMPARTMENT OF T-BASE. A 480VAC SURGE ARRESTOR (ASCO MODEL 235 - 235480LF030AWLN0) OR (HESCO/RLS HE480BW) AND SHALL BE INSTALLED USING BUTT CRIMP CONNECTORS.

STREET LIGHT POLE ASSEMBLY SHALL BE GROUNDED USING A #6 GREEN AWG WIRE FROM GROUND TO THE T-BASE GROUND TERMINAL LUG. ALL STREET LIGHT POLES SHALL HAVE A MINIMUM OF TWO (2), TEN (10) FOOT LENGTH 5/8" COPPER CLAD GROUND ROD SHALL BE INSTALLED, AND SHALL HAVE A GROUND RESISTANCE READING OF 15 OHMS OR LESS.

715-511-140 AND 715-512-140:

LEE COUNTY PREFERS HAPCO POLE PRODUCTS FOR T-BASE, POLE AND ARMS. ALL STREETLIGHTS SHALL NOT BE PLACED IN DITCHES, DRAINAGE SLOPES, SWALES, OR WHERE SHEET OR STANDING WATER CAN INTRUDE. ALL STREETLIGHT FIXTURES SHALL BE HOLOPHANE MONGOOSE LED MEDIUM P7, MGLEDM_P7_40K_480_WR_VH_GRSD_A0 AND THE ADJUSTABLE OUTPUT SHALL BE SET TO SETTING #5 (72% LUMEN OUTPUT).

REVISIONS				 201 N. Franklin Street, Suite 400 Tampa, Florida 33602 Engineer of Record: Scott R. Samuels, P.E. P.E. No.: 88738	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET NO. L-6
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY	CONTRACT NO.	
				CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479	GENERAL NOTES (2)	

LIGHTING DATA

POLE NO.	CIRCUIT	STATION	ARM LENGTH (FT)	LUMINAIRE WATTAGE	MOUNTING HEIGHT (FT)	POLE SETBACK	PAY ITEM
1B1	A-2	14+61	8'	1 X 180 W	40'	20' RT COP TO EOT	715-511-140
1B2	A-2	13+40	8'	1 X 180 W	40'	20' RT COP TO EOT	715-511-140
1A1	A-1	14+74	8'	1 X 180 W	40'	36' LT COP TO EOT	715-511-140
1A	A-1	16+12	8'	1 X 180 W	40'	20' LT COP TO EOT	715-511-140
1B	A-2	15+95	8'	1 X 180 W	40'	16' RT COP TO EOT	715-511-140
2A1	A-1	17+12	8'	1 X 180 W	40'	22' LT COP TO EOT	715-511-140
2A	A-1	18+39	8'	1 X 180 W	40'	29' RT COP TO EOT	715-511-140
2B	A-2	18+40	8'/8'	2 X 180 W	40'	21' RT COP TO EOT	715-512-140
3	A-2	20+20	8'/8'	2 X 180 W	40'	21' RT COP TO EOT	715-512-140
4	A-1	20+20	8'	1 X 180 W	40'	30' LT COP TO EOT	715-511-140
5	A-2	22+00	8'/8'	2 X 180 W	40'	21' RT COP TO EOT	715-512-140
6	A-1	22+00	8'	1 X 180 W	40'	14' LT COP TO EOA	715-511-140
7	A-1	23+80	8'	1 X 180 W	40'	14' LT COP TO EOA	715-511-140
8	A-2	24+10	8'	1 X 180 W	40'	28' RT COP TO EOA	715-511-140
9	A-1	25+59	8'	1 X 180 W	40'	14' LT COP TO EOA	715-512-140
10	A-2	25+75	8'	1 X 180 W	40'	21' RT COP TO EOT	715-512-140
11	A-1	27+40	8'/8'	2 X 180 W	40'	24' LT COP TO EOT	715-512-140
12	A-2	27+41	8'	1 X 180 W	40'	20' RT COP TO EOT	715-511-140
13	A-4	29+20	8'	1 X 180 W	40'	34' RT COP TO EOT	715-511-140
14	A-3	29+19	8'/8'	2 X 180 W	40'	24' LT COP TO EOT	715-512-140
15	A-4	30+60	8'	1 X 180 W	40'	31' RT COP TO EOT	715-511-140
16	A-3	31+00	8'/8'	2 X 180 W	40'	24' LT COP TO EOT	715-512-140
17	A-4	32+40	8'	1 X 180 W	40'	28' RT COP TO EOA	715-511-140
18	A-3	33+00	8'/8'	2 X 180 W	40'	24' LT COP TO EOT	715-512-140
19	A-4	34+50	8'	1 X 180 W	40'	38' LT COP TO EOT	715-511-140
20	A-3	34+80	8'	1 X 180 W	40'	24' RT COP TO EOT	715-511-140
21	A-4	36+31	8'/8'	2 X 180 W	40'	20' RT COP TO EOT	715-512-140
22	A-3	36+35	8'	1 X 180 W	40'	28' LT COP TO EOT	715-511-140
23	A-4	38+00	8'/8'	2 X 180 W	40'	27' RT COP TO EOT	715-512-140
24	A-3	38+00	8'	1 X 180 W	40'	14' LT COP TO EOA	715-512-140
25	A-4	40+10	8'/8'	2 X 180 W	40'	20' RT COP TO EOT	715-512-140
26	A-3	39+70	8'	1 X 180 W	40'	29' LT COP TO EOT	715-511-140
27	B-1	56+40	8'	1 X 180 W	40'	21' RT COP TO EOT	715-511-140
28	B-2	56+40	8'/8'	2 X 180 W	40'	20' RT COP TO EOT	715-512-140
29	B-1	58+18	8'	1 X 180 W	40'	21' LT COP TO EOT	715-511-140
29A	B-2	58+23	8'/8'	2 X 180 W	40'	20' RT COP TO EOT	715-512-140
30	B-2	60+21	8'/8'	2 X 180 W	40'	20' RT COP TO EOT	715-512-140
31	B-1	59+99	8'/8'	2 X 180 W	40'	20' LT COP TO EOT	715-512-140
32	B-1	62+08	8'	1 X 180 W	40'	31' LT COP TO EOT	715-511-140
33	B-2	62+12	8'/8'	2 X 180 W	40'	20' RT COP TO EOT	715-512-140
34	B-2	64+00	8'/8'	2 X 180 W	40'	21' RT COP TO EOT	715-512-140
35	B-1	64+00	8'	1 X 180 W	40'	28' LT COP TO EOT	715-511-140
36	B-1	65+58	8'	1 X 180 W	40'	27' LT COP TO EOT	715-511-140
37	B-2	65+61	8'/8'	2 X 180 W	40'	20' RT COP TO EOT	715-512-140
38	B-2	67+39	8'/8'	2 X 180 W	40'	20' RT COP TO EOT	715-512-140
39	B-1	67+40	8'	1 X 180 W	40'	27' LT COP TO EOT	715-511-140
40	B-2	68+72	8'/8'	2 X 180 W	40'	21' RT COP TO EOA	715-512-140
41	B-1	69+02	8'	1 X 180 W	40'	26' LT COP TO EOT	715-511-140
42	B-2	70+60	8'	1 X 180 W	40'	14' RT COP TO EOA	715-511-140
43	B-1	70+60	8'	1 X 180 W	40'	21' LT COP TO EOT	715-511-140
44	B-1	72+09	8'	1 X 180 W	40'	14' LT COP TO EOA	715-511-140
45	B-2	72+10	8'/8'	2 X 180 W	40'	33' RT COP TO EOT	715-512-140
46	B-1	74+00	8'	1 X 180 W	40'	14' LT COP TO EOA	715-511-140
47	B-2	74+00	8'/8'	2 X 180 W	40'	21' LT COP TO EOT	715-512-140
48	B-1	76+10	8'	1 X 180 W	40'	32' LT COP TO EOT	715-511-140

COP = CENTER OF POLE
EOA = EDGE OF AUXILIARY LANE
EOT = EDGE OF TRAVEL LANE
FOP = FACE OF POLE

LIGHTING DATA

POLE NO.	CIRCUIT	STATION	ARM LENGTH (FT)	LUMINAIRE WATTAGE	MOUNTING HEIGHT (FT)	POLE SETBACK	PAY ITEM
49	B-2	76+14	8'/8'	2 X 180 W	40'	18' RT COP TO EOA	715-512-140
50	B-1	77+70	8'	1 X 180 W	40'	27' LT COP TO EOT	715-511-140
51	B-2	77+70	8'	1 X 180 W	40'	34' RT COP TO EOT	715-511-140
52	B-2	79+20	8'	1 X 180 W	40'	34' RT COP TO EOT	715-511-140
53	B-3	79+80	8'	1 X 180 W	40'	29' LT COP TO EOT	715-511-140
54	B-4	80+80	8'	1 X 180 W	40'	32' RT COP TO EOT	715-511-140
55	B-3	82+10	8'	1 X 180 W	40'	28' LT COP TO EOT	715-511-140
56	B-4	82+00	8'	1 X 180 W	40'	34' RT COP TO EOT	715-511-140
57	B-3	83+50	8'	1 X 180 W	40'	27' LT COP TO EOT	715-511-140
58	B-4	83+50	8'/8'	2 X 180 W	40'	25' RT COP TO EOT	715-512-140
59	B-3	85+10	8'	1 X 180 W	40'	27' LT COP TO EOT	715-511-140
60	B-4	85+10	8'/8'	2 X 180 W	40'	26' RT COP TO EOT	715-512-140
61	B-4	86+99	8'/8'	2 X 180 W	40'	30' RT COP TO EOT	715-512-140
62	B-3	87+01	8'	1 X 180 W	40'	29' LT COP TO EOT	715-511-140
63	B-3	88+64	8'	1 X 180 W	40'	25' LT COP TO EOT	715-511-140
64	B-4	89+23	8'/8'	2 X 180 W	40'	26' RT COP TO EOT	715-512-140
65	B-3	90+50	8'	1 X 180 W	40'	21' LT COP TO EOT	715-511-140
66	B-4	91+33	8'	1 X 180 W	40'	14' RT COP TO EOA	715-511-140
67	B-3	92+10	8'	1 X 180 W	40'	21' LT COP TO EOT	715-511-140
68	B-4	93+40	8'/8'	2 X 180 W	40'	27' RT COP TO EOT	715-512-140
69	B-3	93+90	8'	1 X 180 W	40'	28' LT COP TO EOT	715-511-140
70	B-4	95+60	8'/8'	2 X 180 W	40'	14' RT COP TO EOA	715-512-140
71	B-3	95+60	8'	1 X 180 W	40'	30' LT COP TO EOT	715-511-140
72	B-4	97+20	8'/8'	2 X 180 W	40'	16' RT COP TO EOA	715-512-140
73	B-3	97+20	8'	1 X 180 W	40'	33' LT COP TO EOT	715-511-140
74	B-4	98+90	8'/8'	2 X 180 W	40'	16' RT COP TO EOA	715-512-140
75	B-3	99+40	8'	1 X 180 W	40'	33' LT COP TO EOT	715-511-140

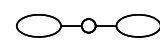
LIGHTING LEGEND

SYMBOLS

DESCRIPTION



THE BASIS OF DESIGN USED WAS: MANUFACTURER: HOLOPHANE MGLEDM, MODEL: HOLOPHANE MONGOOSE LED MEDIUM P7, SINGLE ARM LIGHT POLE, PHOTOMETRIC CURVE: R2 TOP MOUNTED FIXTURE, 180 WATT, 480 VOLT, 40' MOUNTING HEIGHT. MGLEDM P7 40K 480 WR VH GRSD A0 AND THE ADJUSTABLE OUTPUT SHALL BE SET TO SETTING #5 (72% LUMEN OUTPUT).



THE BASIS OF DESIGN USED WAS: MANUFACTURER: HOLOPHANE MGLEDM, MODEL: HOLOPHANE MONGOOSE LED MEDIUM P7, PHOTOMETRIC CURVE: R2 DOUBLE ARM POLE WITH 2-8' ARMS, 180 WATT, 480 VOLT, 40' MOUNTING HEIGHT. MGLEDM P7 40K 480 WR VH GRSD A0 AND THE ADJUSTABLE OUTPUT SHALL BE SET TO SETTING #5 (72% LUMEN OUTPUT).



2" HDPE CONDUIT, DIRECTIONAL BORE, WITH CONDUCTORS INSIDE (CONDUIT AND CONDUCTOR SIZE AS SHOWN ON PLAN SHEETS), RUN ONE COPPER BOND CONDUCTOR (TW GREEN INSULATION) INSIDE CONDUIT WITH OTHER CONDUCTORS.



2" SCH. 40 PVC CONDUIT, OPEN TRENCH, WITH CONDUCTORS INSIDE (CONDUIT AND CONDUCTOR SIZE AS SHOWN ON PLAN SHEETS), RUN ONE COPPER BOND CONDUCTOR (TW GREEN INSULATION) INSIDE CONDUIT WITH OTHER CONDUCTORS.



PULL BOX.



PROPOSED LOAD CENTER RATED FOR 480V TO GROUND, SINGLE PHASE.



EXISTING POWER POLE.



POLE MOUNTED TRANSFORMER

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

KCA
KISINGER CAMPO & ASSOCIATES
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: Scott R. Samuels, P.E.
P.E. No.: 88738

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

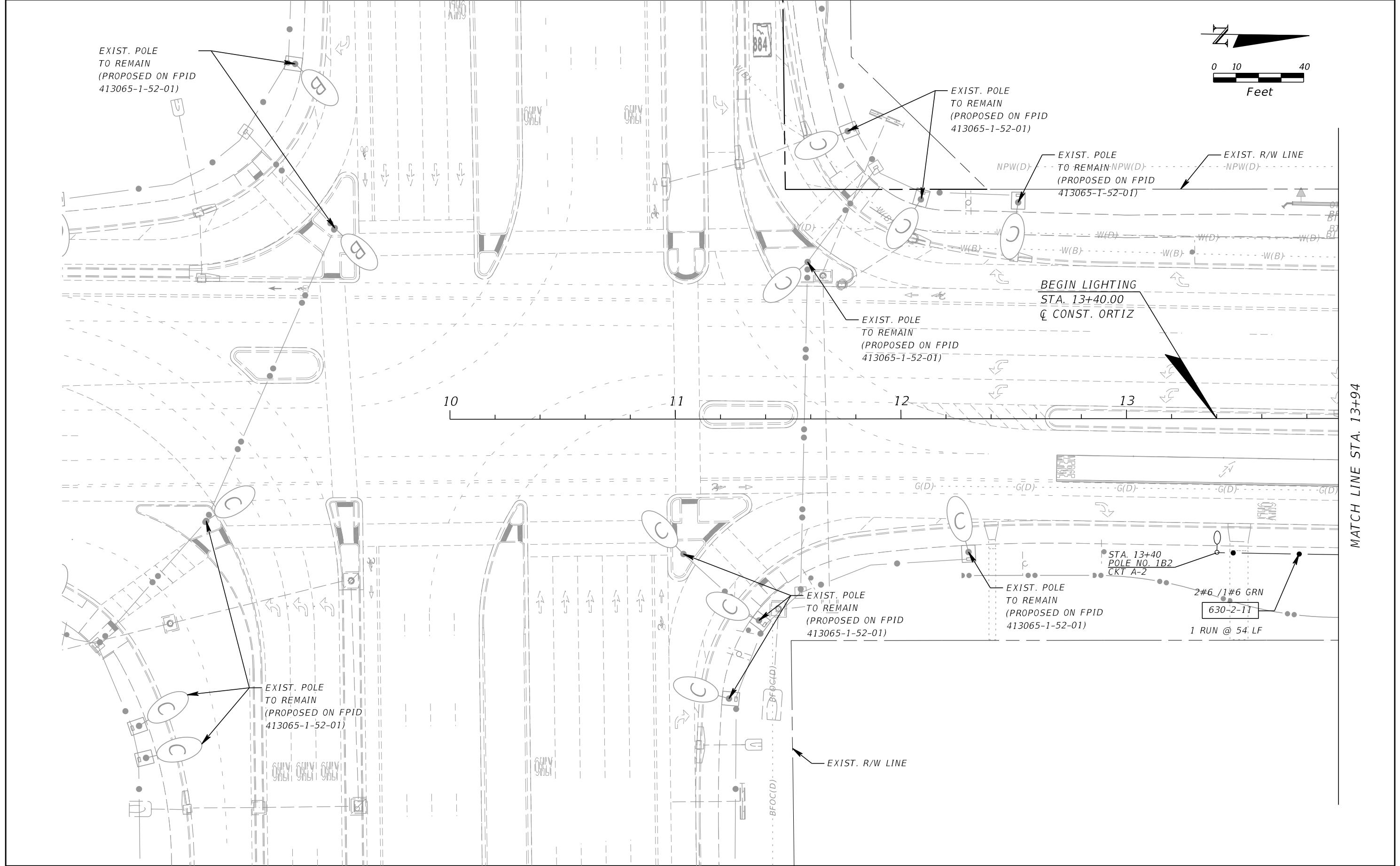
ROAD	COUNTY	CONTRACT NO.
CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479

POLE DATA &
LIGHTING LEGEND

SHEET NO.

L-7

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MATCH LINE STA. 13+94

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

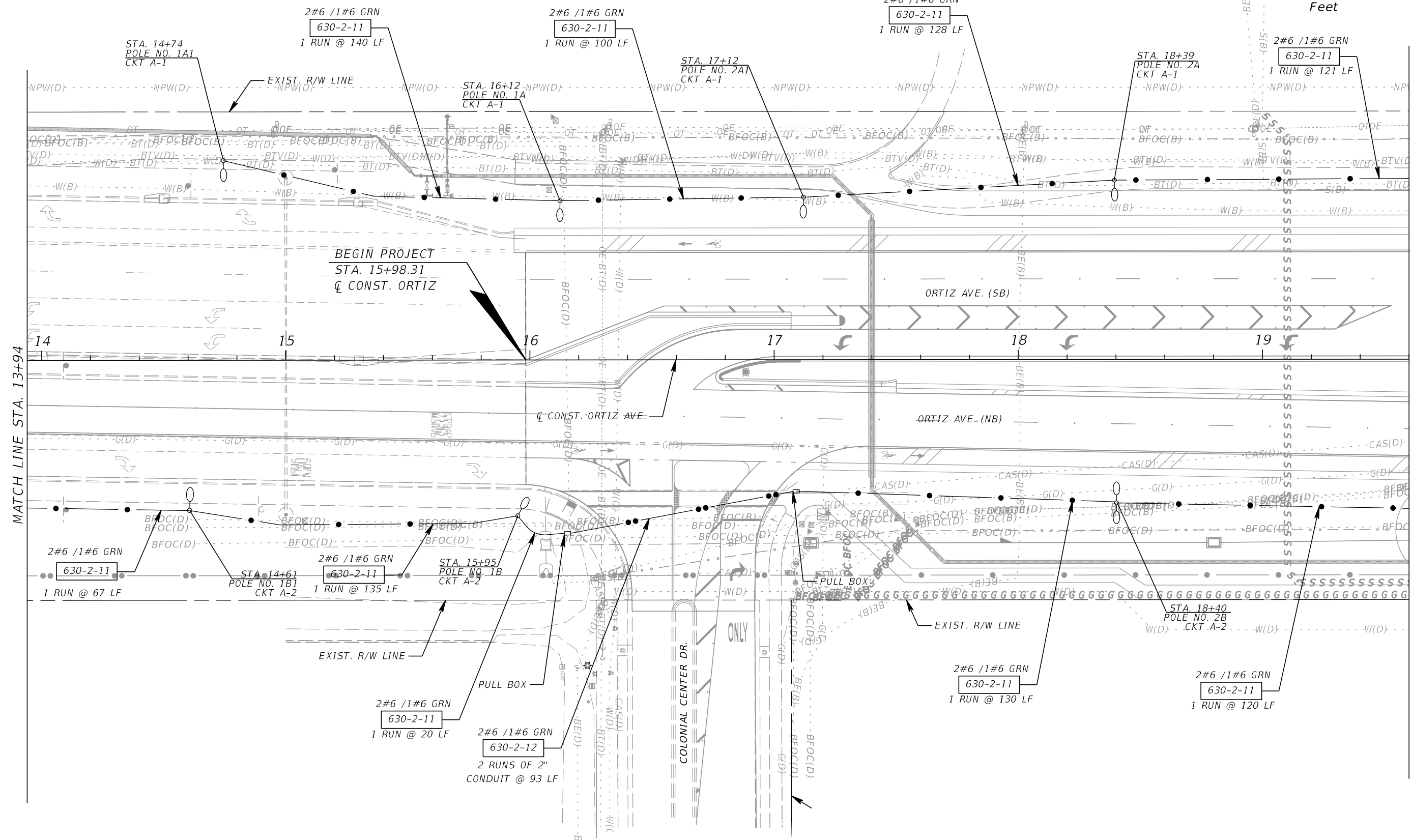
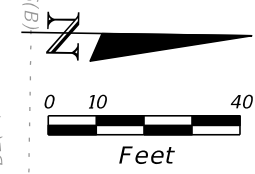
KCA
KISINGER CAMPO & ASSOCIATES

201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: Scott R. Samuels, P.E.
P.E. No.: 88738

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	CONTRACT NO.
CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479

LIGHTING PLAN (1)

SHEET NO.
L-8



MATCH LINE STA. 13+94

MATCH LINE STA. 19+60

BEGIN PROJECT
STA. 15+98.31
CL CONST. ORTIZ

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KCA
KISINGER CAMPO & ASSOCIATES

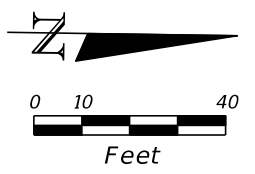
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: Scott R. Samuels, P.E.
P.E. No.: 88738

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	CONTRACT NO.
CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479

LIGHTING PLAN (2)

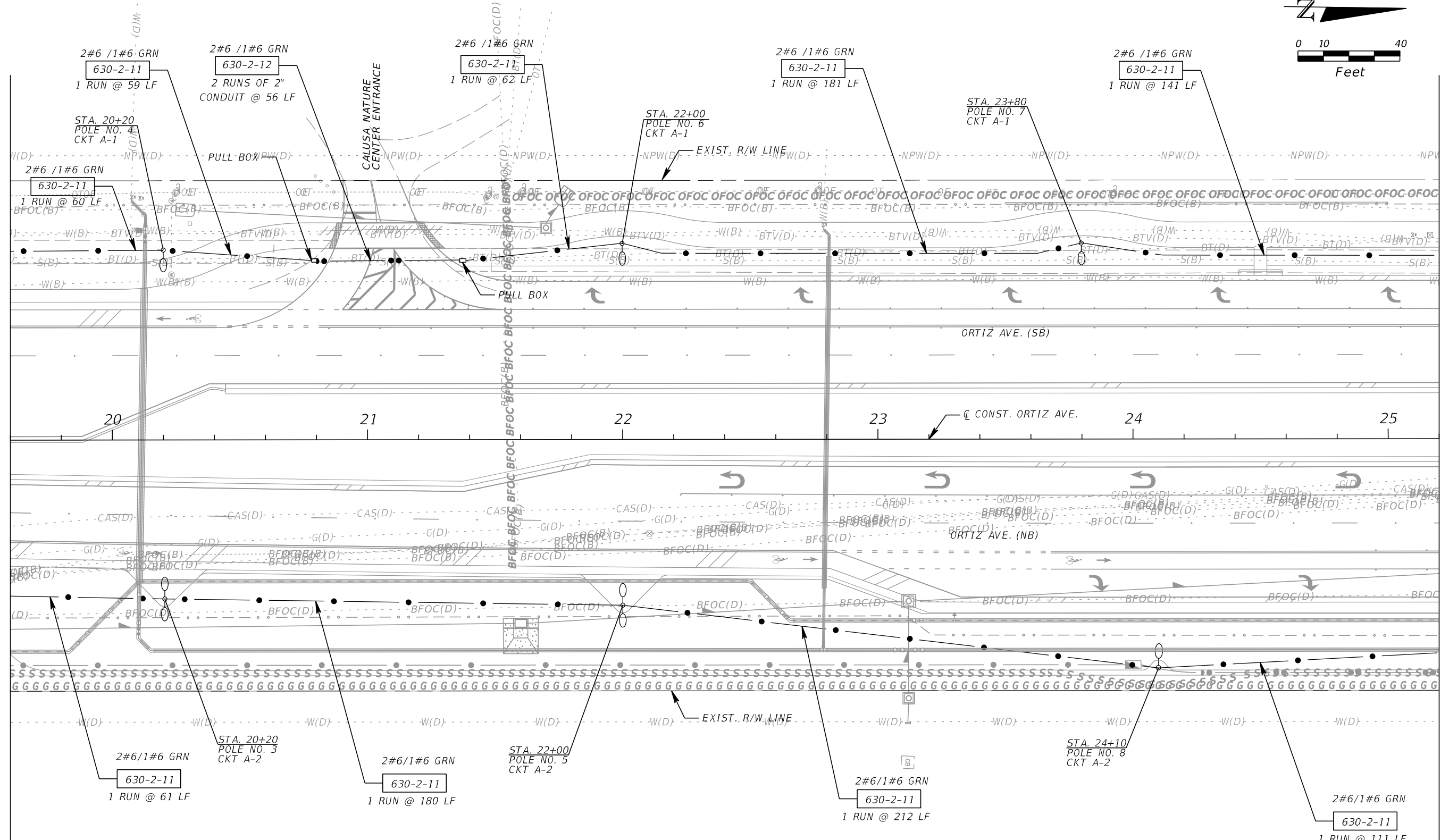
SHEET NO.
L-9

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MATCH LINE STA. 19+60

MATCH LINE STA. 25+20



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KCA
KISINGER CAMPO & ASSOCIATES

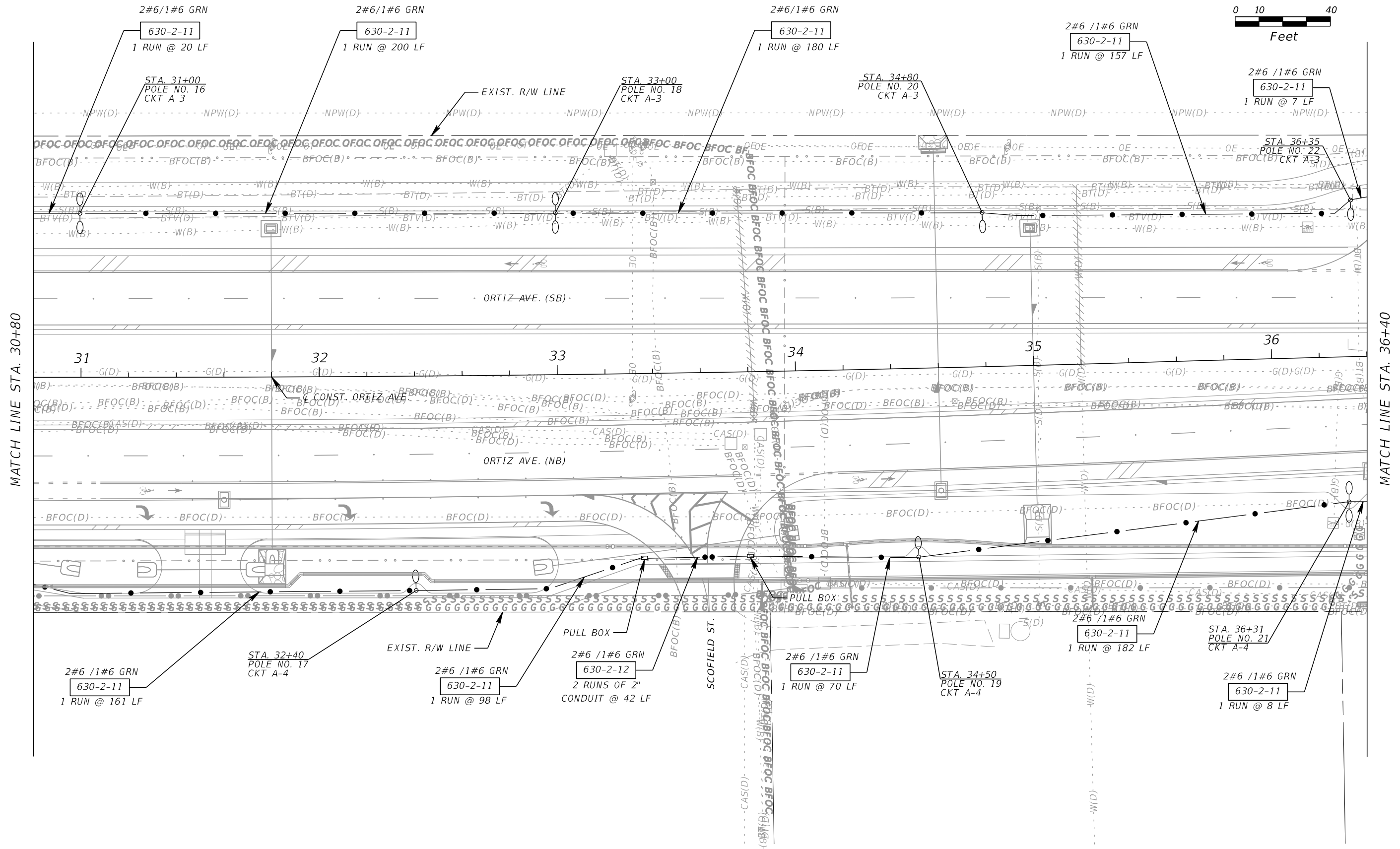
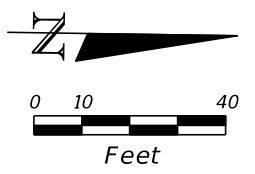
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: Scott R. Samuels, P.E.
P.E. No.: 88738

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	CONTRACT NO.
CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479

LIGHTING PLAN (3)

SHEET NO.
L-10

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MATCH LINE STA. 30+80

MATCH LINE STA. 36+40

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KCA
KISINGER CAMPO & ASSOCIATES

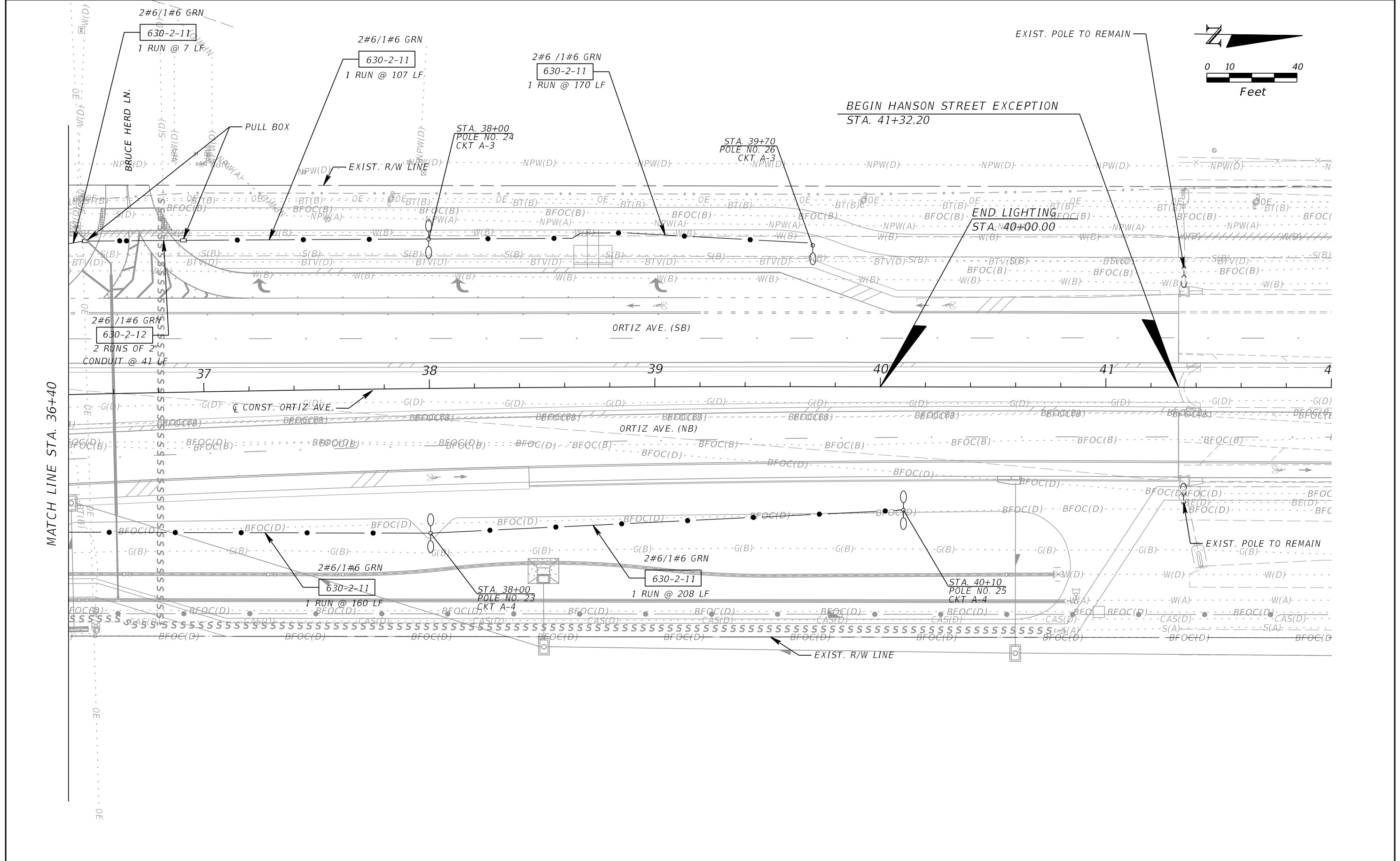
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: Scott R. Samuels, P.E.
P.E. No.: 88738

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	CONTRACT NO.
CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479

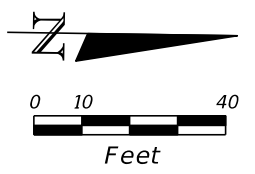
LIGHTING PLAN (5)

SHEET NO.
L-12

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MATCH LINE STA. 36+40



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KCA
KISINGER CAMPO & ASSOCIATES

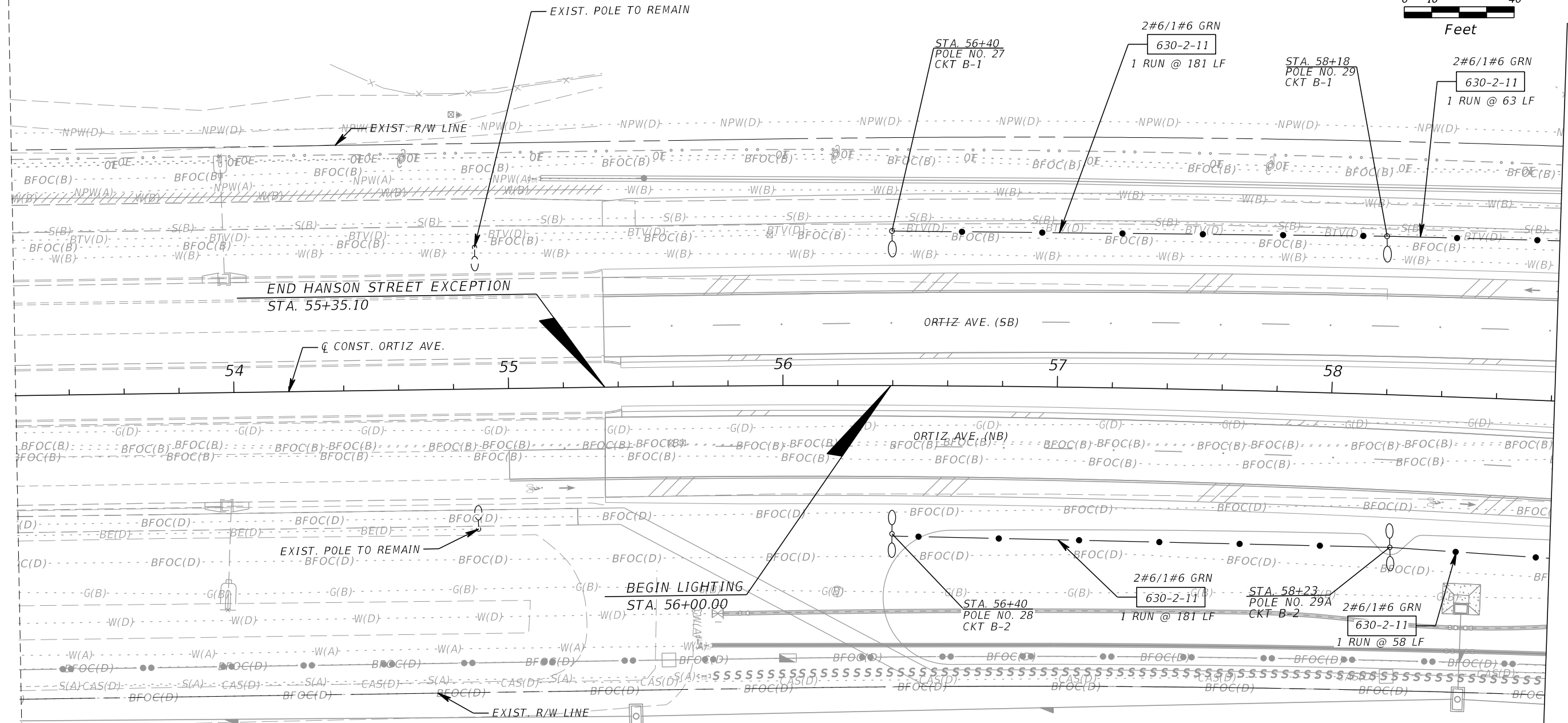
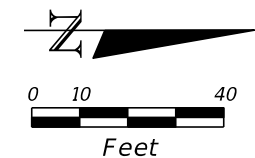
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: Scott R. Samuels, P.E.
P.E. No.: 88738

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	CONTRACT NO.
CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479

LIGHTING PLAN (6)

SHEET NO.
L-13

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MATCH LINE STA. 58+82

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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KISINGER CAMPO & ASSOCIATES

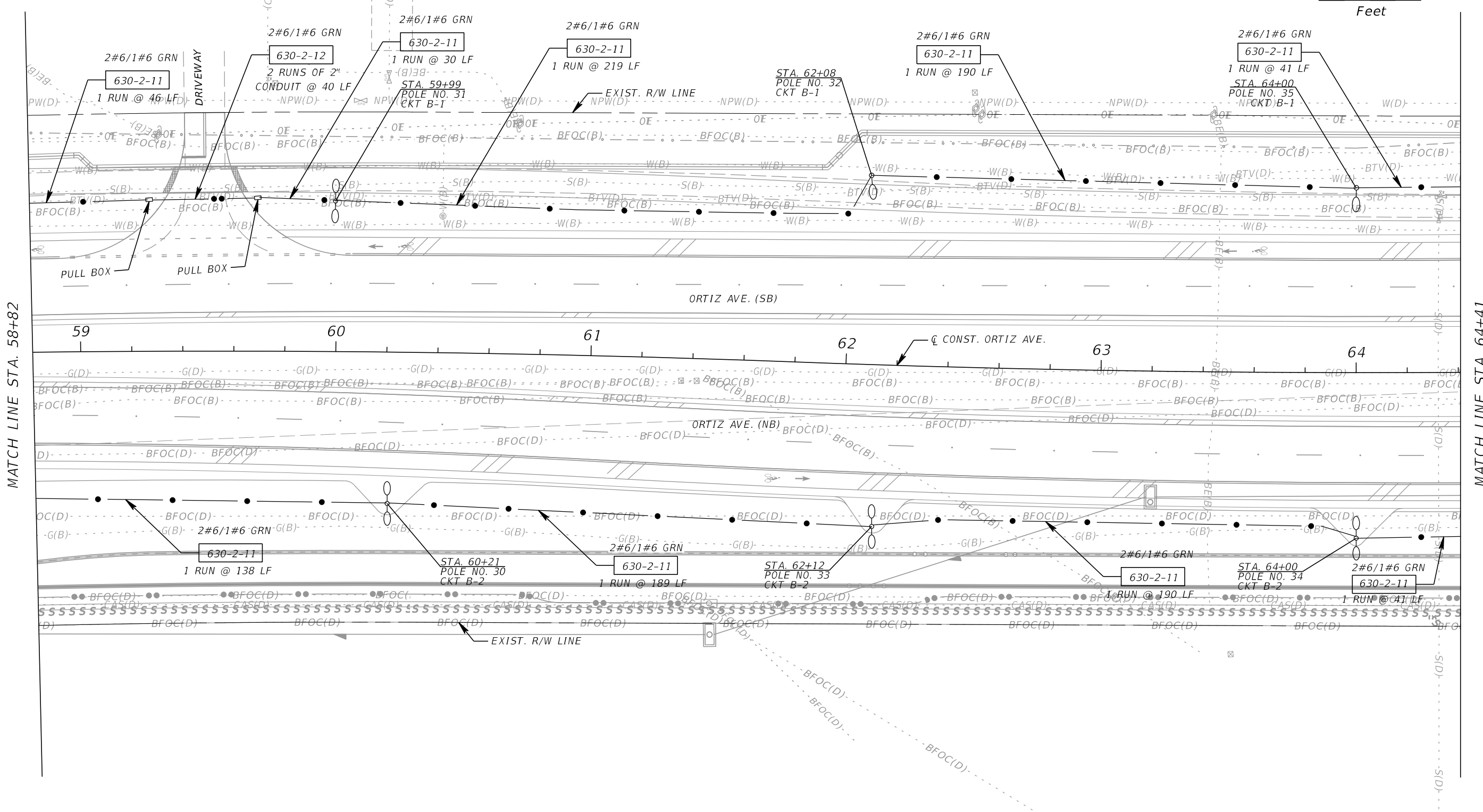
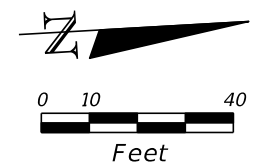
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: Scott R. Samuels, P.E.
P.E. No.: 88738

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	CONTRACT NO.
CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479

LIGHTING PLAN (7)

SHEET NO.
L-14

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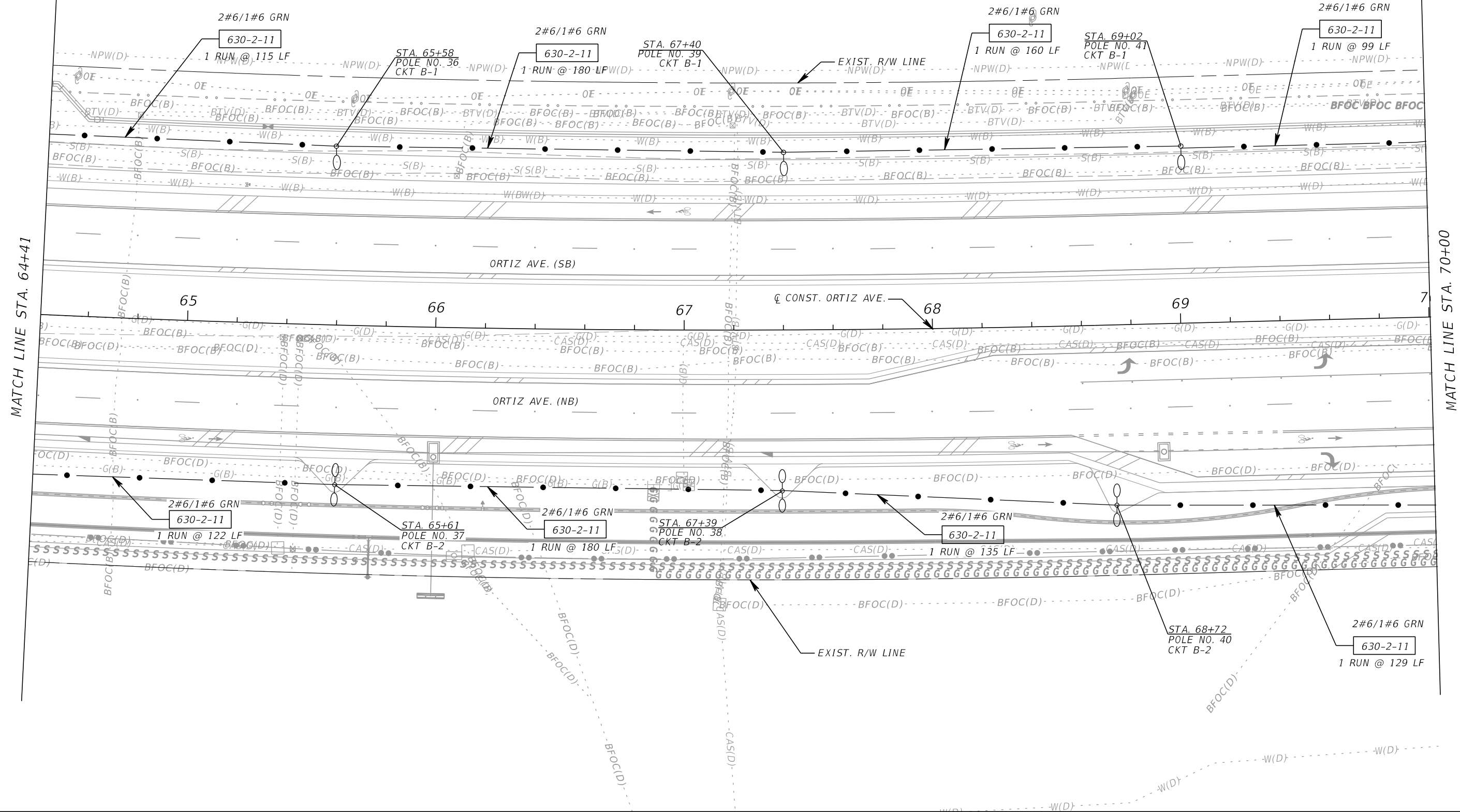
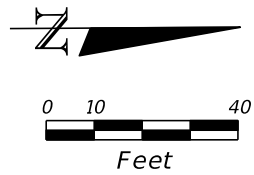


MATCH LINE STA. 58+82

MATCH LINE STA. 64+41

REVISIONS				KISINGER CAMPO & ASSOCIATES 201 N. Franklin Street, Suite 400 Tampa, Florida 33602 Engineer of Record: Scott R. Samuels, P.E. P.E. No.: 88738	LEE COUNTY DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN (8)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY	CONTRACT NO.		L-15
					CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479		

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MATCH LINE STA. 64+41

MATCH LINE STA. 70+00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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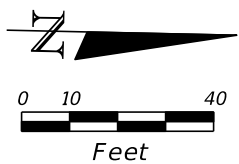
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: Scott R. Samuels, P.E.
P.E. No.: 88738

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	CONTRACT NO.
CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479

LIGHTING PLAN (9)

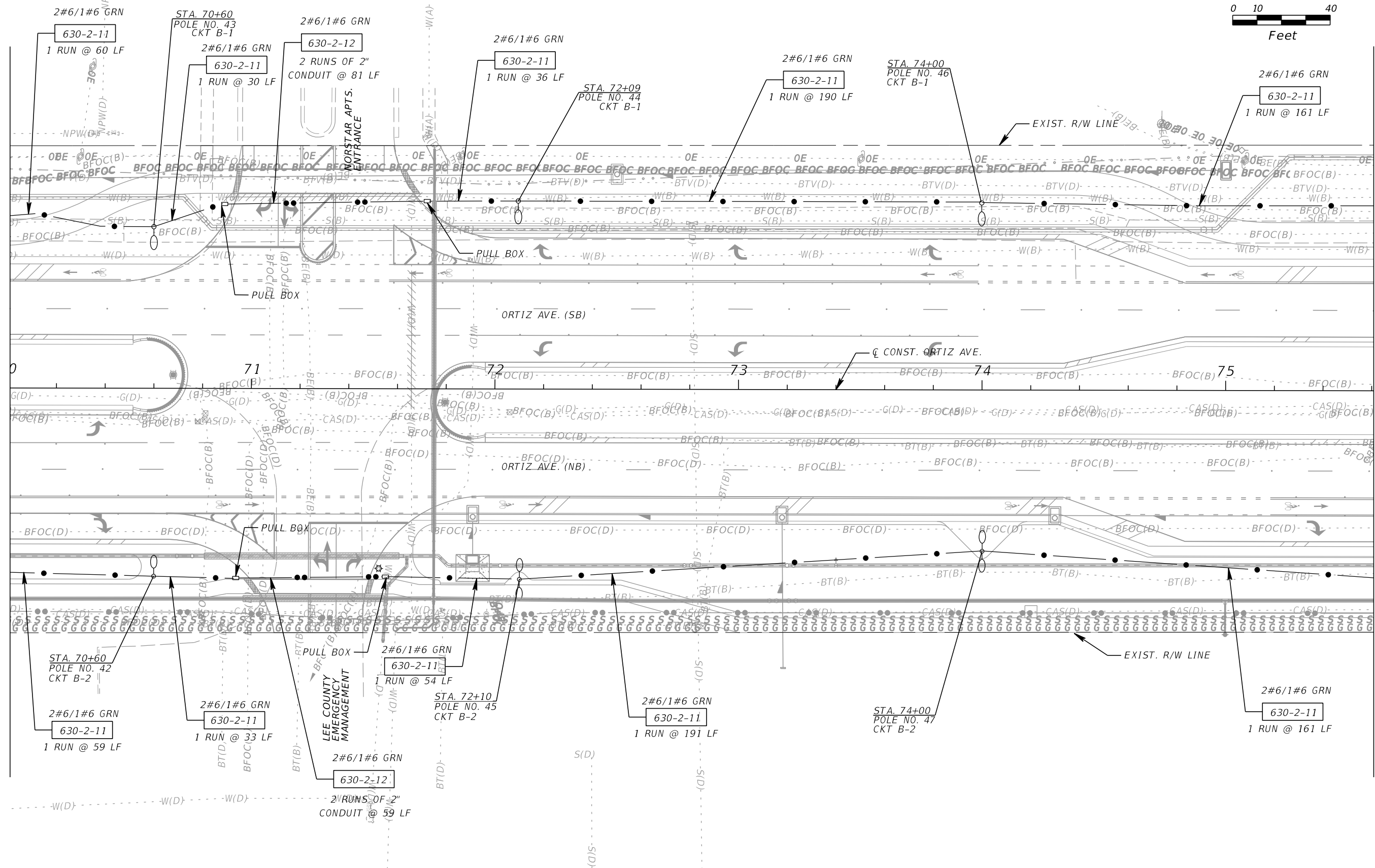
SHEET NO.
L-16

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MATCH LINE STA. 70+00

MATCH LINE STA. 75+60



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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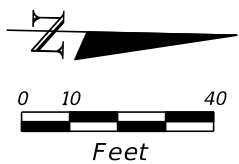
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: Scott R. Samuels, P.E.
P.E. No.: 88738

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	CONTRACT NO.
CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479

LIGHTING PLAN (10)

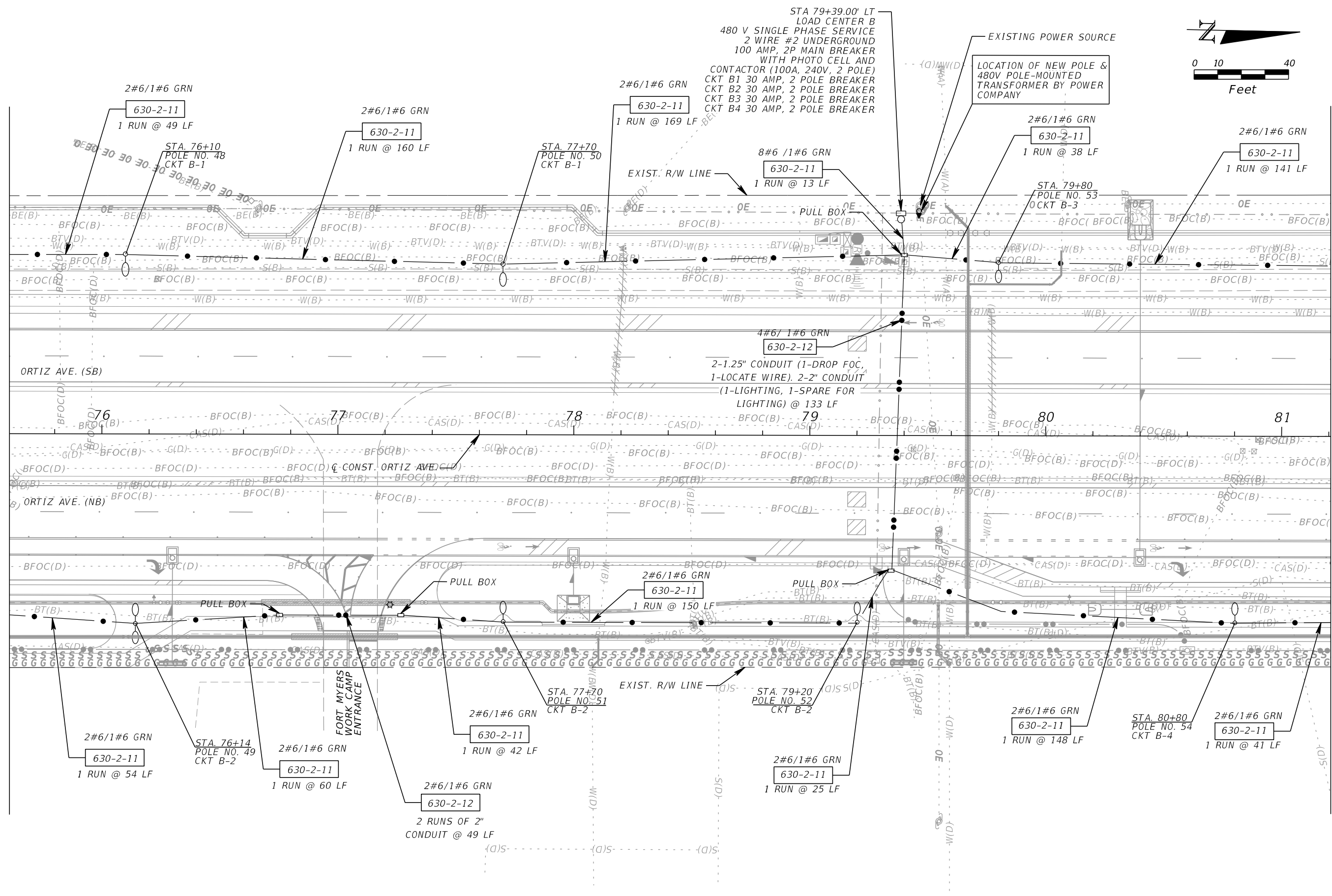
SHEET NO.
L-17

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MATCH LINE STA. 75+60

MATCH LINE STA. 81+22



STA 79+39.00' LT
LOAD CENTER B
480 V SINGLE PHASE SERVICE
2 WIRE #2 UNDERGROUND
100 AMP, 2P MAIN BREAKER
WITH PHOTO CELL AND
CONTACTOR (100A, 240V, 2 POLE)
CKT B1 30 AMP, 2 POLE BREAKER
CKT B2 30 AMP, 2 POLE BREAKER
CKT B3 30 AMP, 2 POLE BREAKER
CKT B4 30 AMP, 2 POLE BREAKER

EXISTING POWER SOURCE
LOCATION OF NEW POLE &
480V POLE-MOUNTED
TRANSFORMER BY POWER
COMPANY

4#6/1#6 GRN
630-2-12
2-1.25" CONDUIT (1-DROP FOC,
1-LOCATE WIRE). 2-2" CONDUIT
(1-LIGHTING, 1-SPARE FOR
LIGHTING) @ 133 LF

2#6/1#6 GRN
630-2-11
1 RUN @ 49 LF

2#6/1#6 GRN
630-2-11
1 RUN @ 160 LF

2#6/1#6 GRN
630-2-11
1 RUN @ 169 LF

8#6/1#6 GRN
630-2-11
1 RUN @ 13 LF

2#6/1#6 GRN
630-2-11
1 RUN @ 38 LF

2#6/1#6 GRN
630-2-11
1 RUN @ 141 LF

2#6/1#6 GRN
630-2-11
1 RUN @ 54 LF

2#6/1#6 GRN
630-2-11
1 RUN @ 60 LF

2#6/1#6 GRN
630-2-11
1 RUN @ 42 LF

2#6/1#6 GRN
630-2-12
2 RUNS OF 2"
CONDUIT @ 49 LF

2#6/1#6 GRN
630-2-11
1 RUN @ 150 LF

2#6/1#6 GRN
630-2-11
1 RUN @ 25 LF

2#6/1#6 GRN
630-2-11
1 RUN @ 148 LF

2#6/1#6 GRN
630-2-11
1 RUN @ 41 LF

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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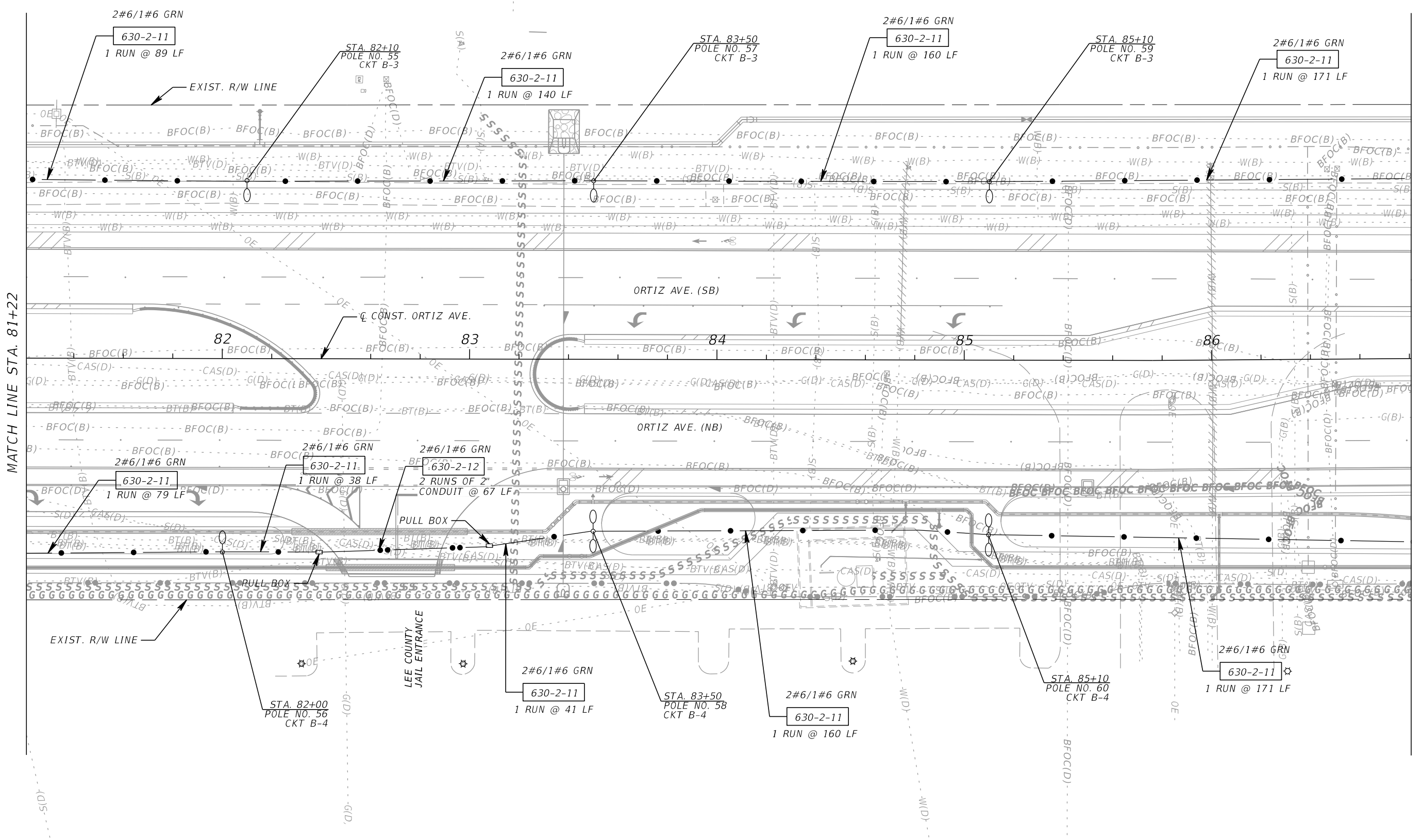
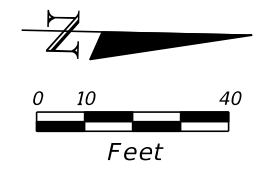
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: Scott R. Samuels, P.E.
P.E. No.: 88738

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	CONTRACT NO.
CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479

LIGHTING PLAN (11)

SHEET NO.
L-18

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MATCH LINE STA. 81+22

MATCH LINE STA. 86+82

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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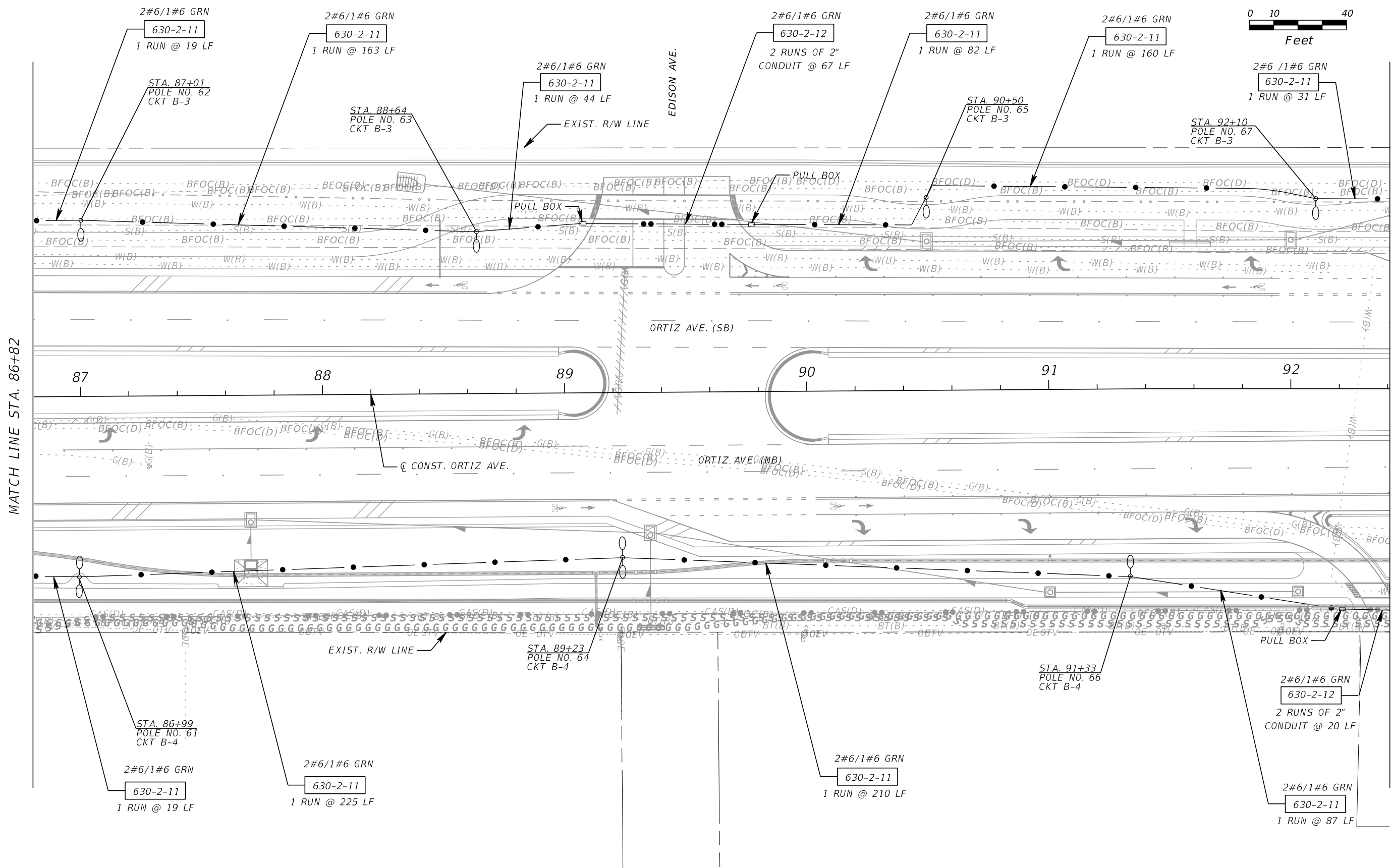
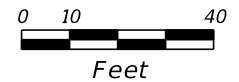
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: Scott R. Samuels, P.E.
P.E. No.: 88738

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	CONTRACT NO.
CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479

LIGHTING PLAN (12)

SHEET NO.
L-19

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MATCH LINE STA. 86+82

MATCH LINE STA. 92+42

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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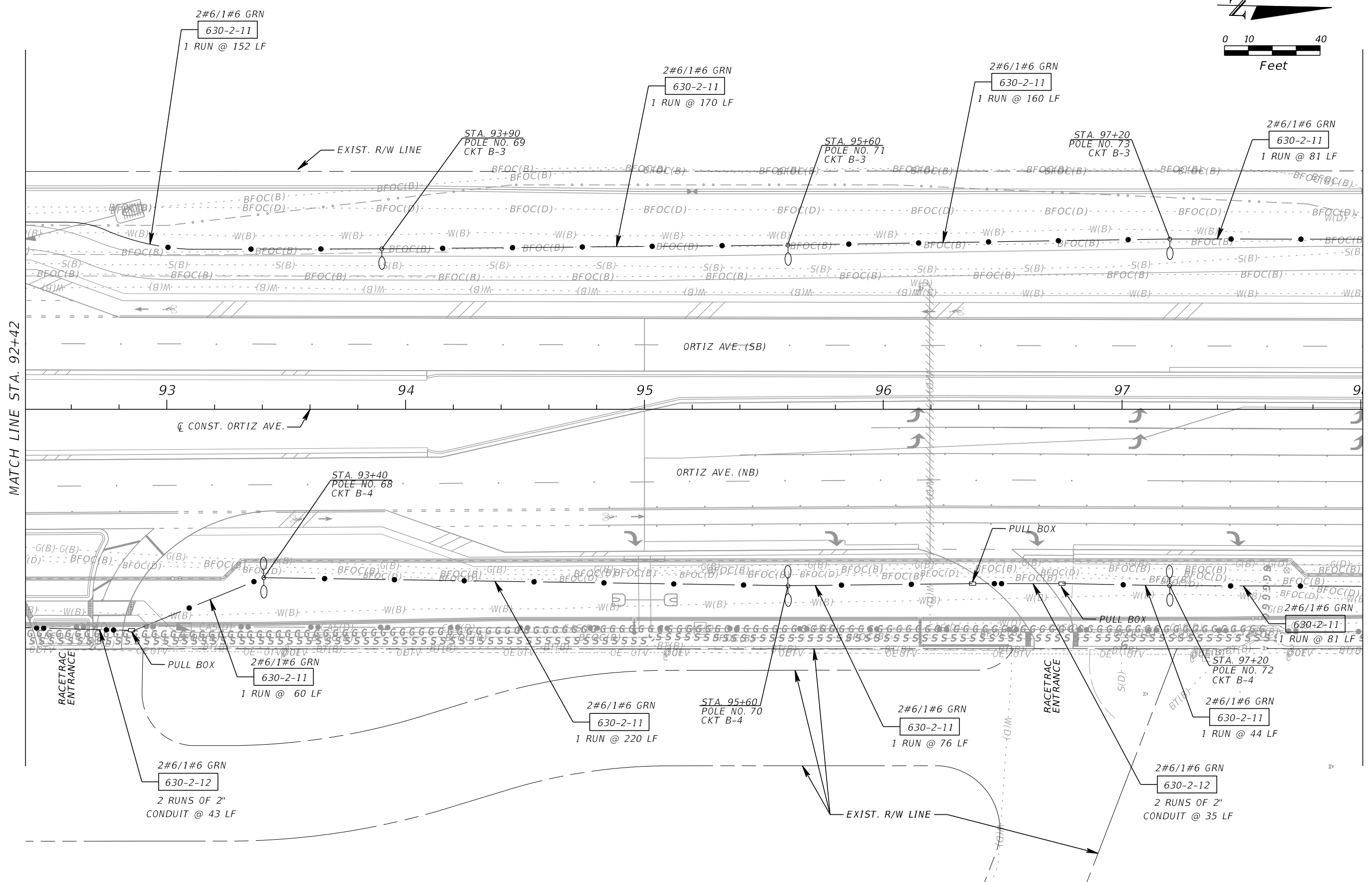
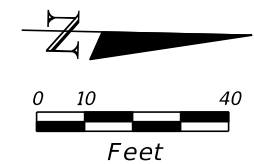
201 N. Franklin Street, Suite 400
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Engineer of Record: Scott R. Samuels, P.E.
P.E. No.: 88738

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	CONTRACT NO.
CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479

LIGHTING PLAN (13)

SHEET NO.
L-20

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



MATCH LINE STA. 92+42

MATCH LINE STA. 98+02

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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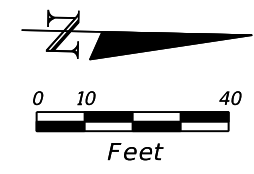
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: Scott R. Samuels, P.E.
P.E. No.: 88738

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	CONTRACT NO.
CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479

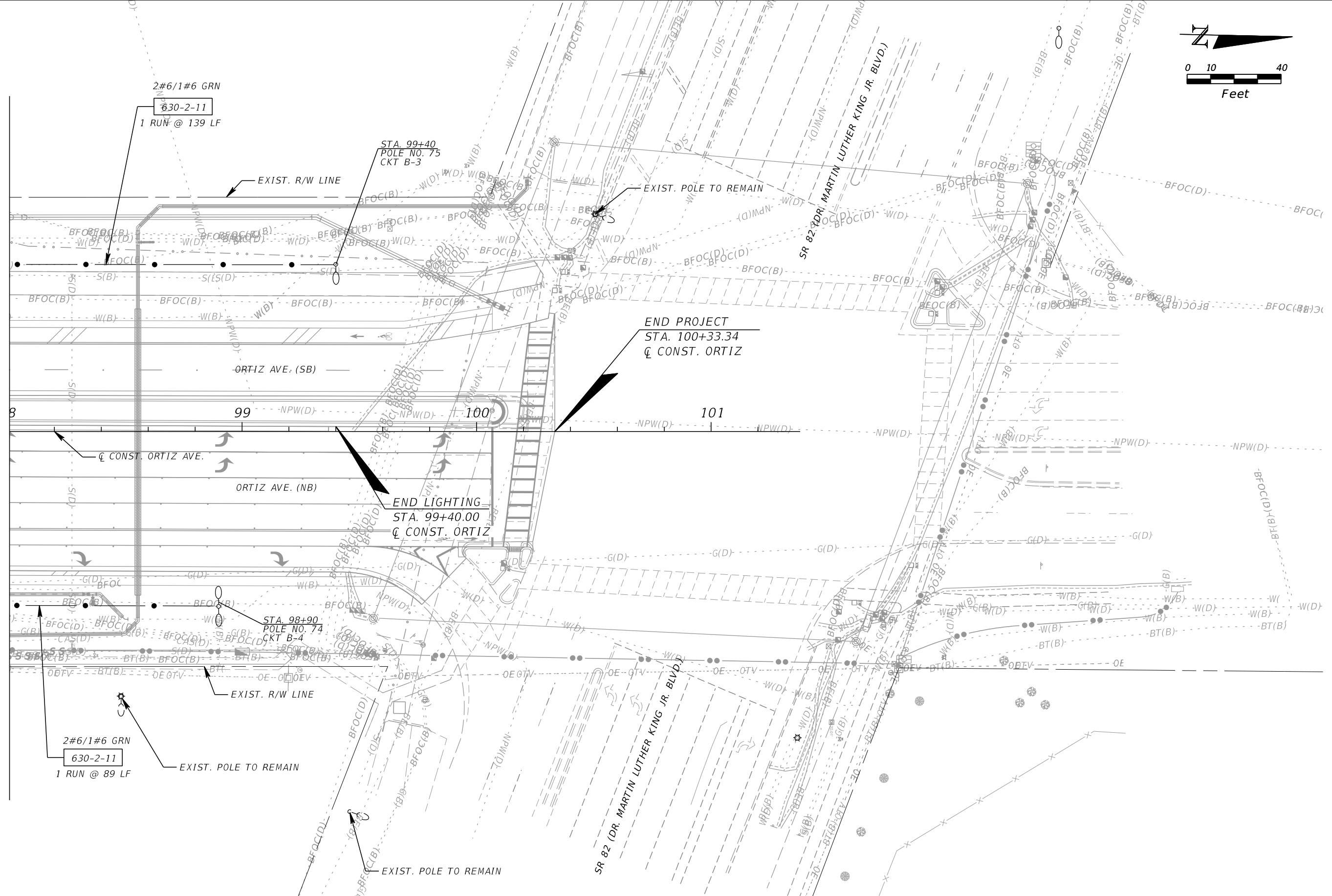
LIGHTING PLAN (14)

SHEET NO.
L-21

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MATCH LINE STA. 98+02



2#6/1#6 GRN
630-2-11
1 RUN @ 139 LF

2#6/1#6 GRN
630-2-11
1 RUN @ 89 LF

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KCA
KISINGER CAMPO & ASSOCIATES

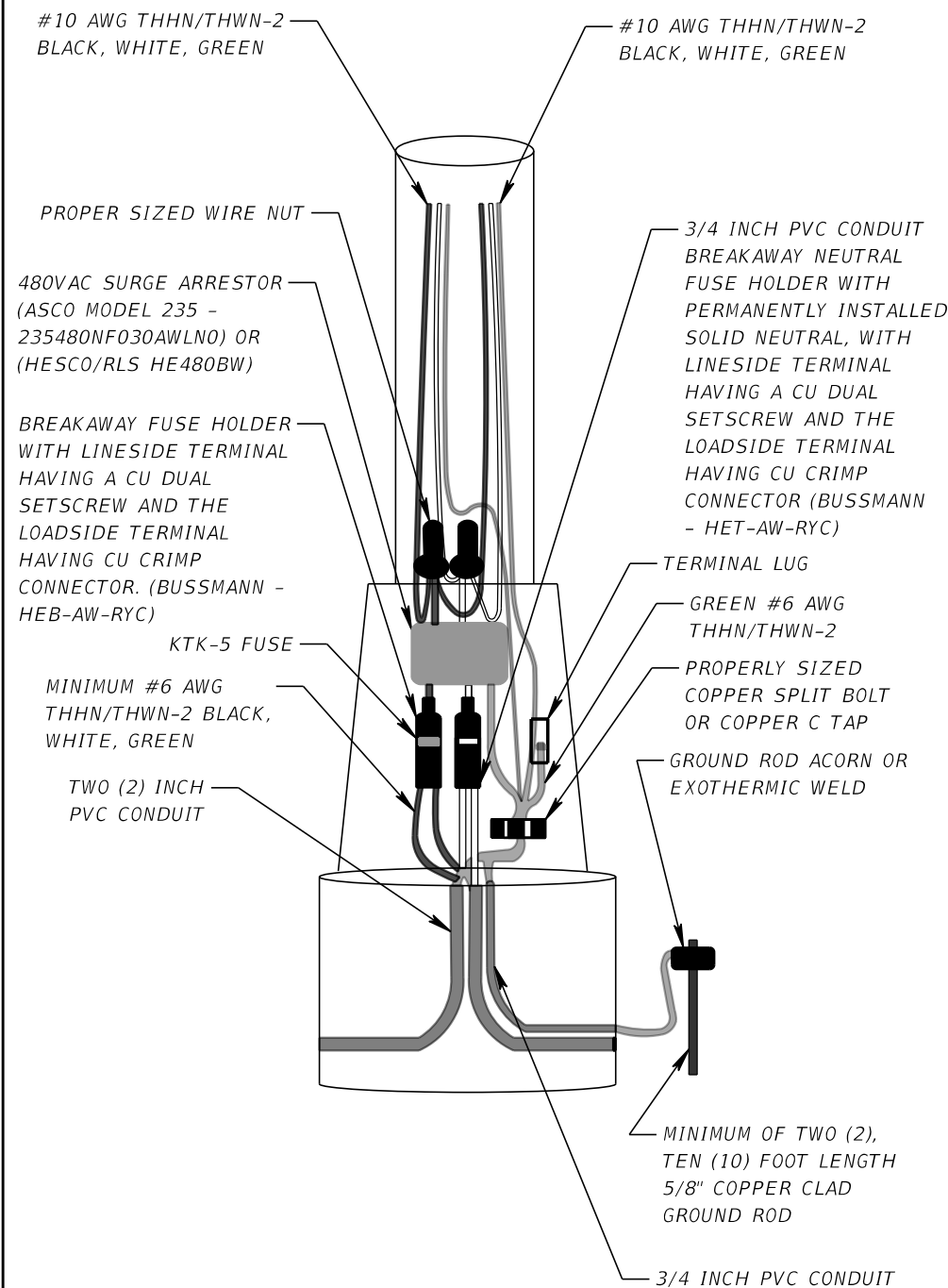
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: Scott R. Samuels, P.E.
P.E. No.: 88738

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	CONTRACT NO.
CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479

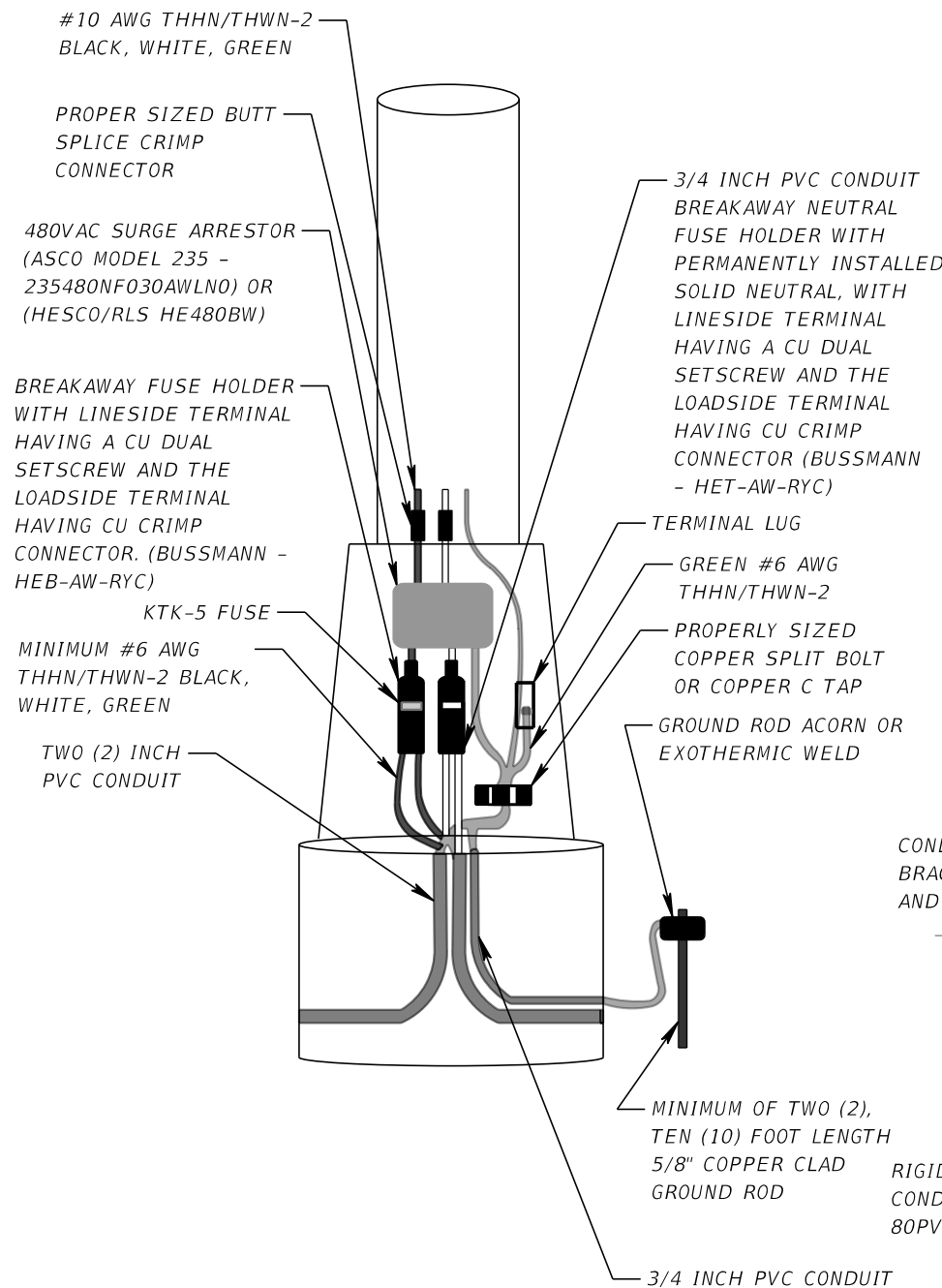
LIGHTING PLAN (15)

SHEET NO.
L-22

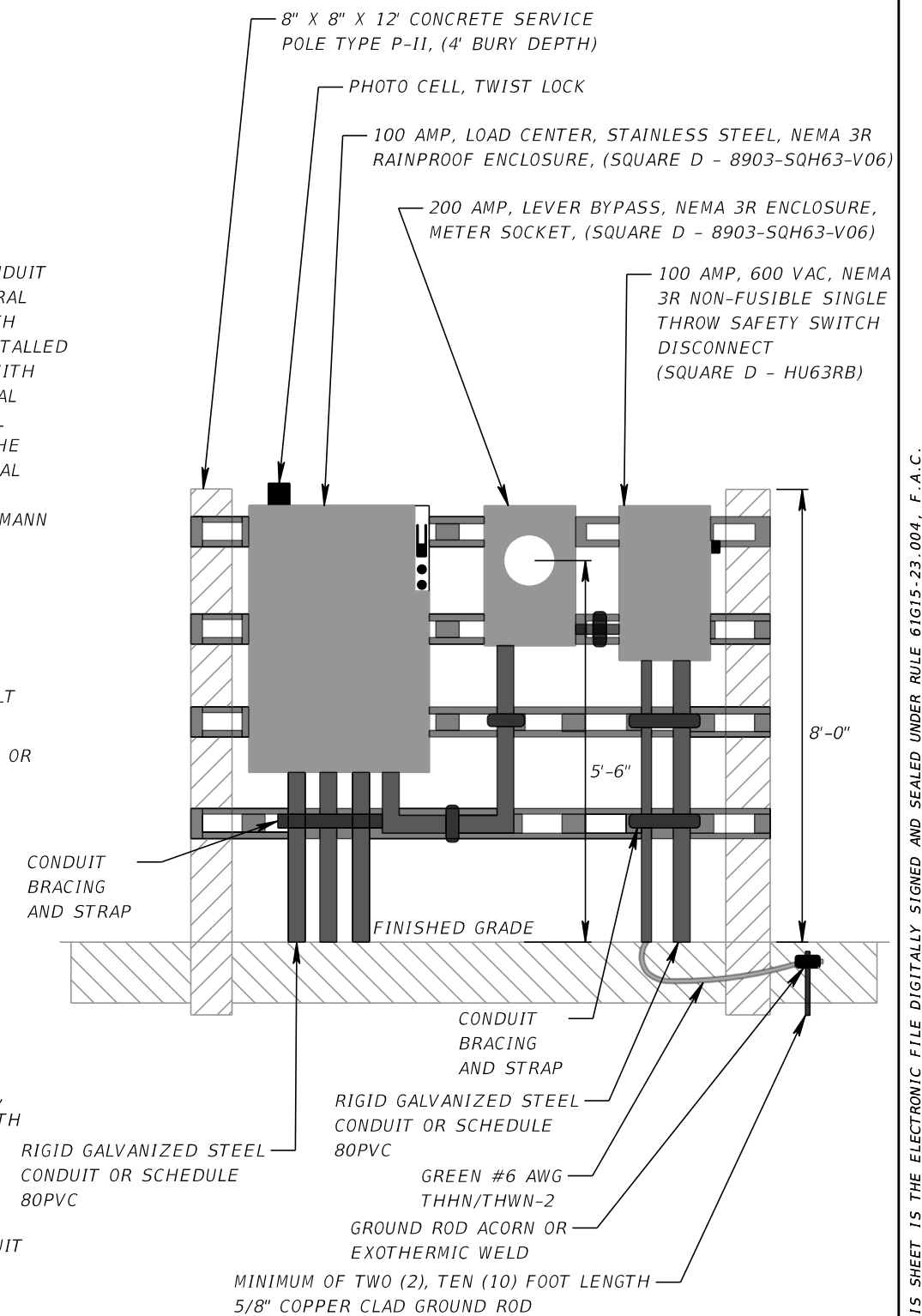
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FP&L 480 VAC (2 WIRE)
STREETLIGHT POLE WIRING DETAIL
STREETLIGHT T-BASE WIRING CONNECTIONS - DUAL FIXTURE



FP&L 480 VAC (2 WIRE)
STREETLIGHT POLE WIRING DETAIL
STREETLIGHT T-BASE WIRING CONNECTIONS



WITHIN 150' OF ELECTRICAL SERVICE FEED
STREETLIGHT POLE WIRING DETAIL
LOAD CENTER, SECONDARY VOLTAGE WITH METER

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KCA
KISINGER CAMPO & ASSOCIATES
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: Scott R. Samuels, P.E.
P.E. No.: 88738

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CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479

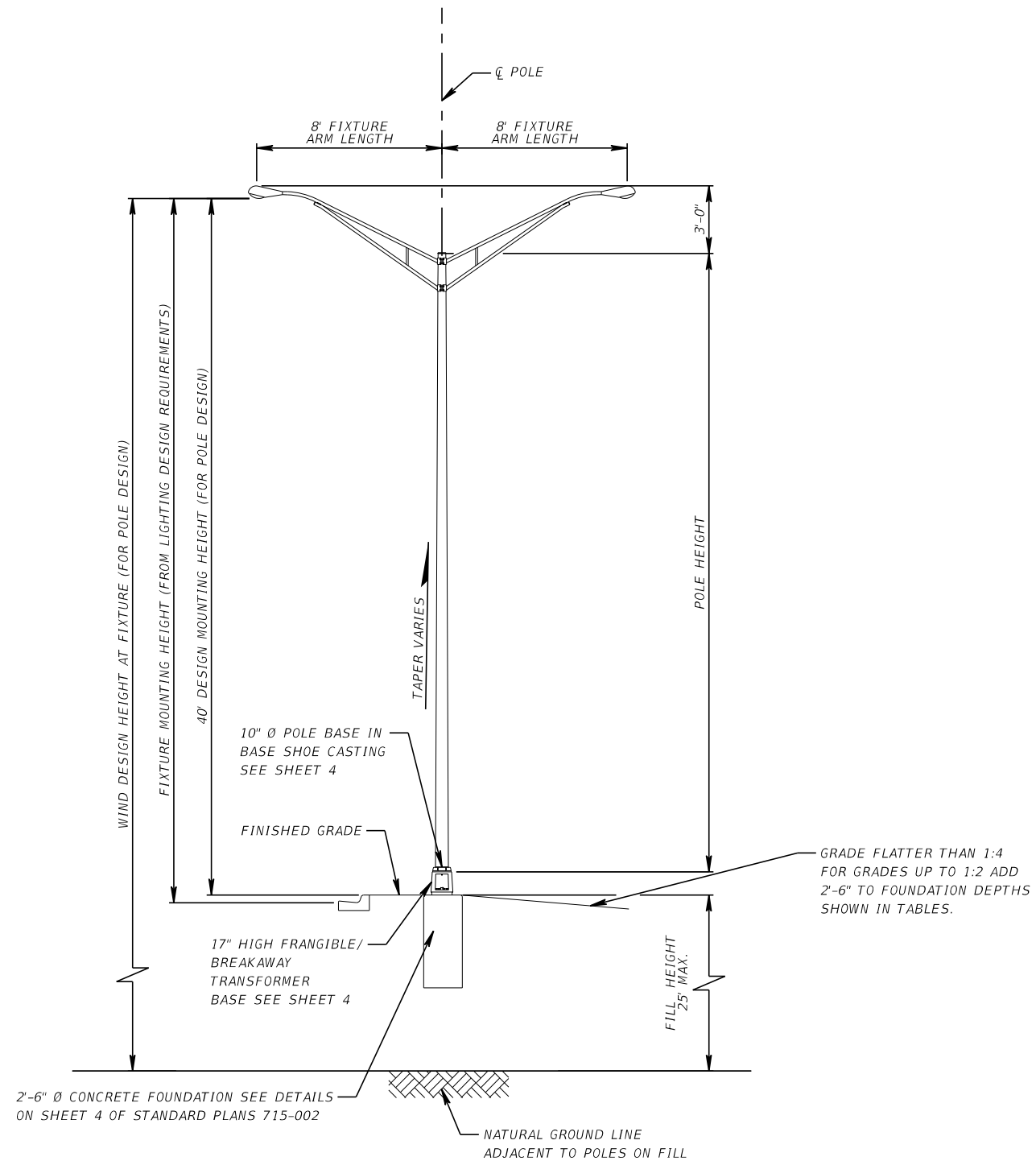
LIGHTING DETAILS

SHEET NO.
L-23

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NOTES:

1. USE DESIGN CRITERIA OF 45' DESIGN MOUNTING HEIGHT POLES WITH ARM IN STANDARD PLANS 715-002 FOR ALL 40' CUSTOM DESIGN MOUNTING HEIGHT POLES.
2. USE HAPCO PN# B12603 FOR 8' POLE ARMS (SINGLE AND DOUBLE).



CUSTOM ROADWAY
ALUMINUM LIGHT POLE
WITH DOUBLE ARM
(40' POLE DESIGN MOUNTING HEIGHT)

REVISIONS				KCA KISINGER CAMPO & ASSOCIATES 201 N. Franklin Street, Suite 400 Tampa, Florida 33602 Engineer of Record: Scott R. Samuels, P.E. P.E. No.: 88738	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SPECIAL LIGHT POLE DESIGN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY	CONTRACT NO.		L-24
					CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

GENERAL NOTES:

1. DESIGN METHODOLOGY:

LOAD RESISTANCE FACTOR DESIGN. DESIGN WIND SPEED = 160 MPH.

2. MATERIALS:

- A. CONCRETE: CLASS IV ($f'c=5500$ psi)
- B. REINFORCING STEEL: GRADE 60 CARBON STEEL PER SPECIFICATIONS SECTION 931
- C. ANCHOR BOLTS, NUTS AND WASHERS (GALVANIZED IN ACCORDANCE WITH ASTM F2329):
 ANCHOR BOLTS: ASTM F1554 GRADE 55
 NUTS: ASTM A563 GRADE DH
 WASHERS: ASTM F436 TYPE 1

3. CONCRETE COVER:

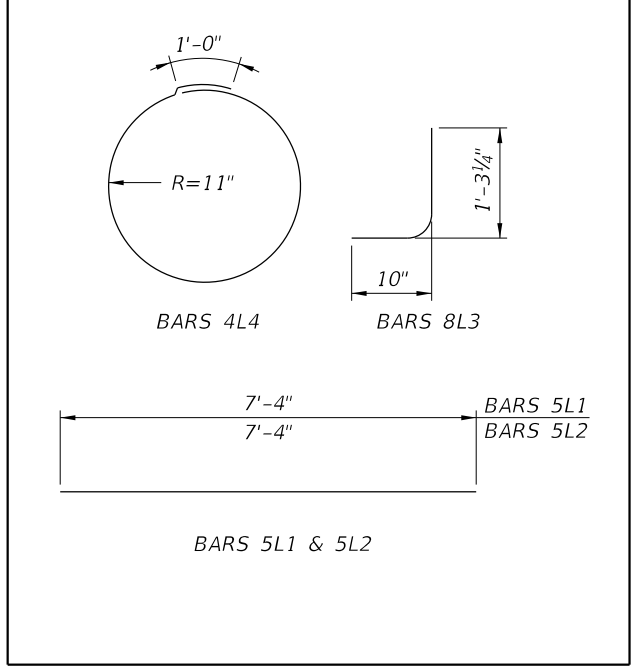
CONCRETE COVER SHOWN IN THE PLANS DOES NOT INCLUDE REINFORCEMENT PLACEMENT AND FABRICATION TOLERANCE UNLESS SHOWN AS "MINIMUM COVER". SEE FDOT STANDARD SPECIFICATIONS FOR ALLOWABLE REINFORCEMENT PLACEMENT TOLERANCES.

ESTIMATED QUANTITIES (PER FOOTING)	
ITEM	QUANTITY
Class IV Concrete (CY)	3.84
Reinforcing Steel (LB)	529

NOTE: QUANTITIES ARE APPROXIMATE

REINFORCING STEEL BENDING DIAGRAM

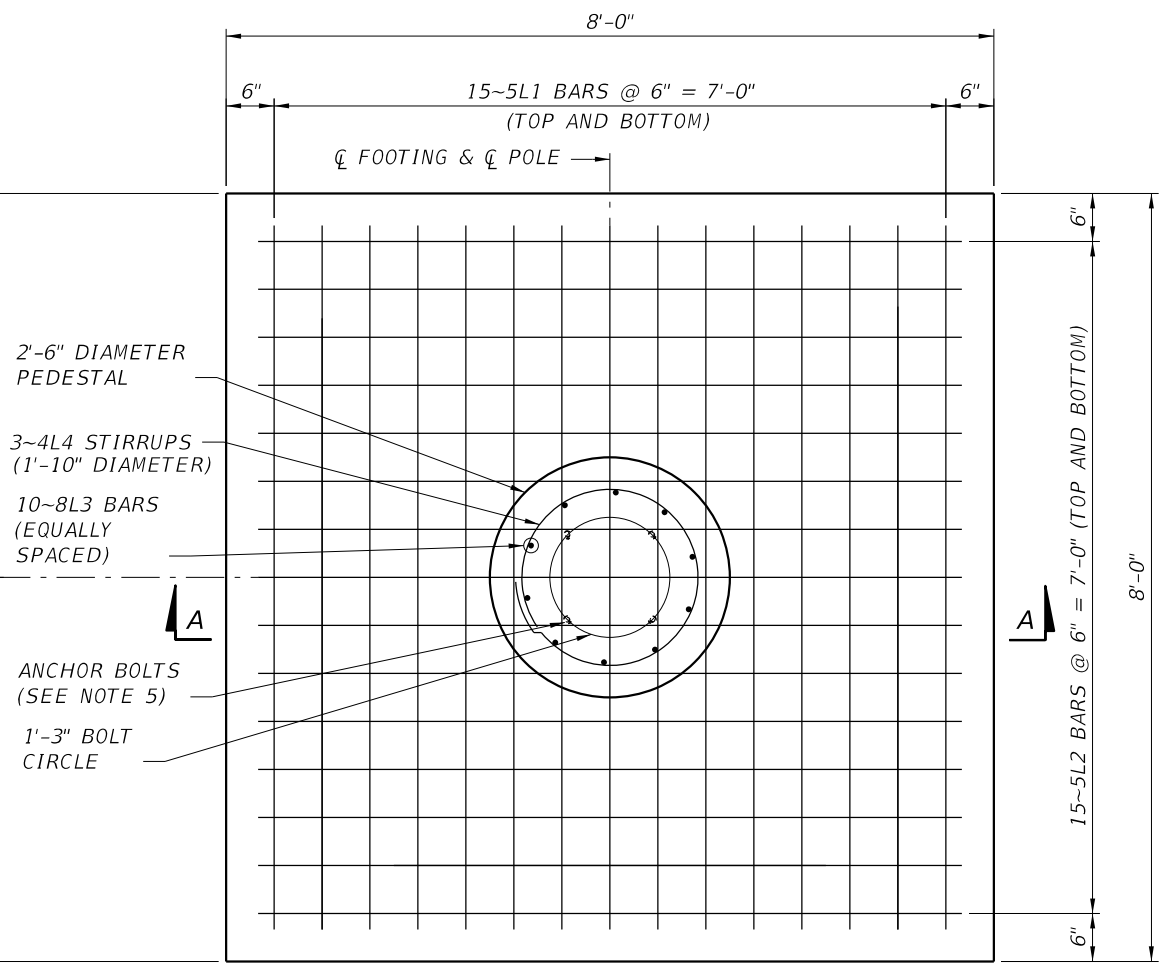
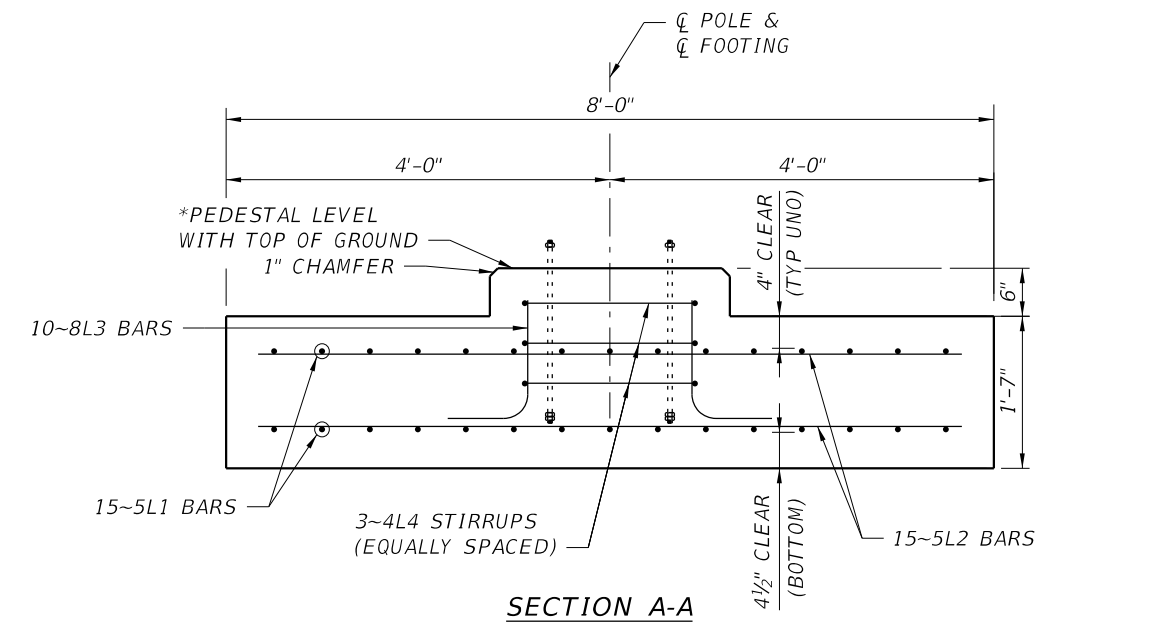
BILL OF REINFORCING STEEL		
MARK	SIZE	NUMBER
5L1	5	30
5L2	5	30
8L3	8	10
4L4	4	3



LIGHT POLE SPREAD FOOTING NOTES:

1. SOIL BELOW THE FOOTING TO HAVE A MINIMUM BEARING CAPACITY OF 3.00 kip/sq ft.
2. ANCHOR BOLTS ARE TO HAVE A MINIMUM OF 4 1/2" CONCRETE COVER AT THE BOTTOM OF THE FOOTING.
3. FOR COMPACTION AND DENSITY REQUIREMENTS BENEATH THE SPREAD FOOTING, SEE FDOT SPECIFICATION 455-31 FOR SHALLOW FOUNDATIONS.
4. DETERMINE GROUNDWATER LEVELS AT THE TIME OF CONSTRUCTION. THE CONTRACTOR'S MEANS AND METHODS MUST ADDRESS ANY ISSUES ARISING FROM SHALLOW GROUNDWATER INCLUDING, BUT NOT LIMITED TO, DEWATERING THAT MAY BE REQUIRED TO FACILITATE COMPACTION AND DENSITY REQUIREMENTS.
5. PROVIDE ANCHOR BOLTS THAT EFFECTIVELY TRANSMIT THE LIGHT POLE LOAD TO THE FOOTING AND THAT FIT THE REINFORCING CAGE. ALSO VERIFY THAT THE FORCES OF THE LIGHT POLE DO NOT EXCEED THE DESIGN LOADS OF THIS FOOTING. SUBMIT CALCULATIONS SIGNED AND SEALED BY A PROFESSIONAL ENGINEER CURRENTLY REGISTERED IN THE STATE OF FLORIDA TO THE DEPARTMENT FOR REVIEW AND APPROVAL SHOWING THAT THESE REQUIREMENTS HAVE BEEN MET PRIOR TO CONSTRUCTION.
6. INSTALL THE PULL BOX ADJACENT TO AND NOT ABOVE THE FOOTING, THEREFORE ALLOWING ADEQUATE DRAINAGE OF THE PULL BOX.
7. DESIGN LOADS:

	SERVICE	EXTREME EVENT
MOMENT IN TRANSVERSE DIR.	= 23.68 KIP*FT	29.60 KIP*FT
MOMENT IN LONGITUDINAL DIR.	= 30.23 KIP*FT	37.79 KIP*FT
TORSION	= 1.85 KIP*FT	2.31 KIP*FT
AXIAL	= 0.36 KIP	0.45 KIP
SHEAR IN TRANSVERSE DIR.	= 1.17 KIP	1.46 KIP
SHEAR IN LONGITUDINAL DIR.	= 0.96 KIP	1.20 KIP
8. SEE LIGHTING GENERAL NOTES FOR CONDUIT REQUIREMENTS. SEE FDOT SPECIFICATIONS SECTION 630-3.8 FOR CONDUIT BEND RADIUS. VERIFY CONDUIT LOCATION PRIOR TO CONSTRUCTION (CONDUIT NOT SHOWN FOR CLARITY).
9. SPREAD FOOTING TO BE USED WHERE REQUIRED AND AS APPROVED BY THE ENGINEER.
10. CONSTRUCT THE LIGHT POLE SPREAD FOOTING FOUNDATIONS IN ACCORDANCE WITH SPECIFICATIONS SECTION 455 EXCEPT THAT NO PAYMENT FOR THE FOUNDATIONS WILL BE MADE UNDER SECTION 455.



* TOP OF FOOTING LEVEL WITH SIDEWALK IF FOOTING ABUTS SIDEWALK. PROVIDE 1/2" PREFORMED JOINT MATERIAL WHEN FOOTING OR PEDESTAL IS CAST AGAINST CONCRETE.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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KISINGER CAMPO & ASSOCIATES
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: Kipling Laskaris, P.E.
P.E. No.: 75005

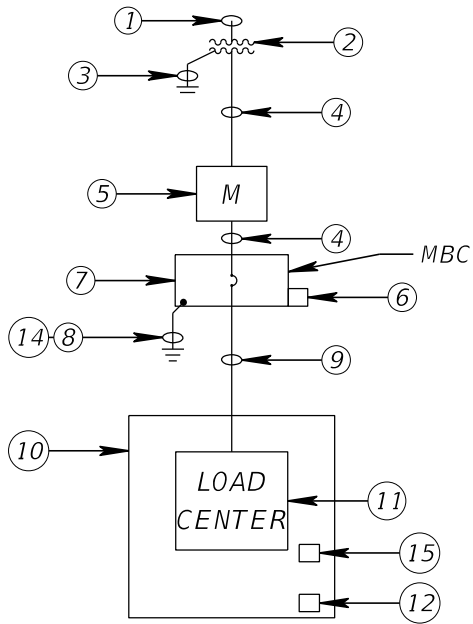
LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	CONTRACT NO.
CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479

LIGHT POLE SPREAD FOOTING

SHEET NO.	L-25
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SECONDARY ELECTRICAL SERVICE,
480V, SINGLE PHASE, 3 WIRE



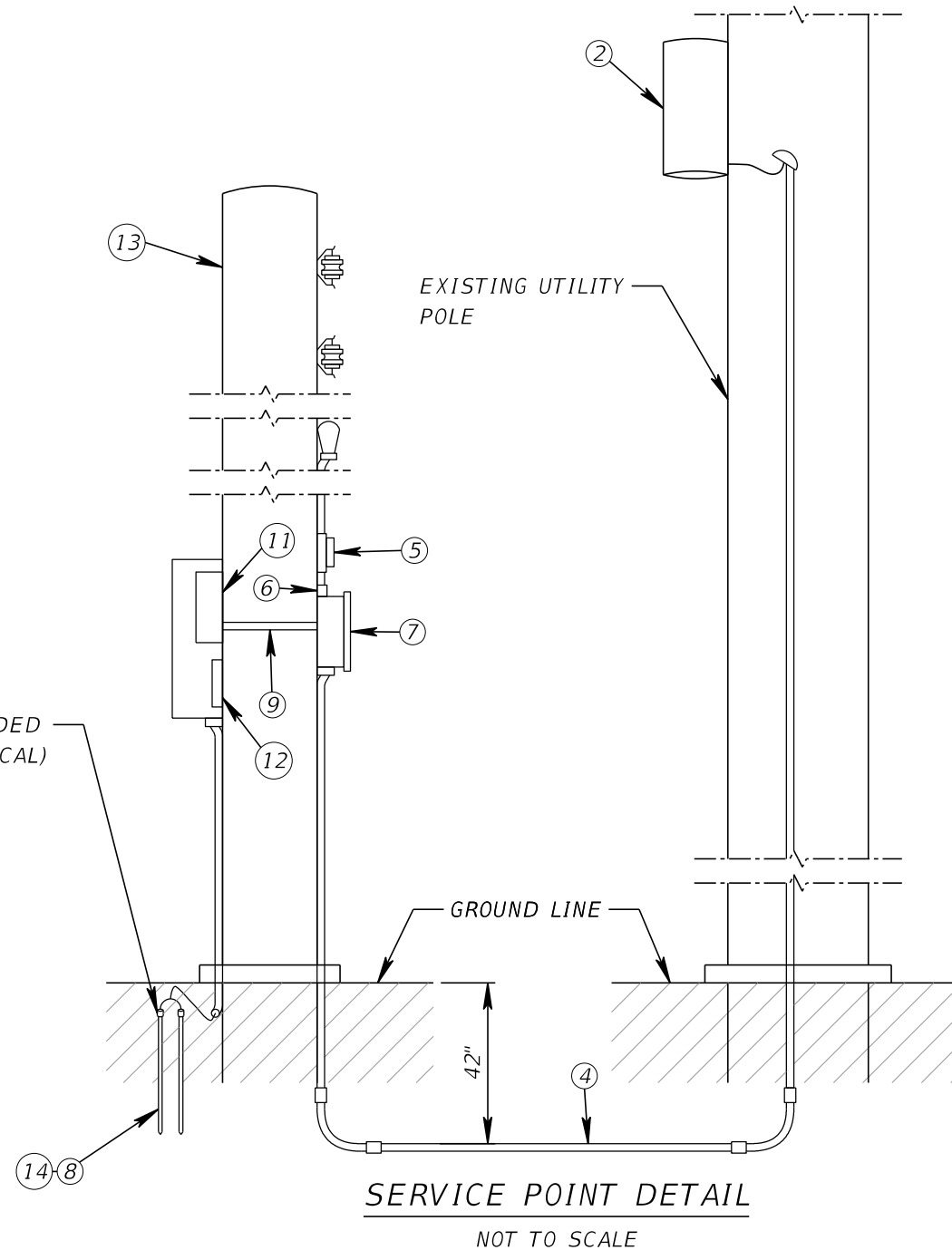
**SERVICE POINT ONE-LINE
DETAIL FOR LOAD CENTER**

NOT TO SCALE

KEY NOTES

- ① PRIMARY ELECTRICAL DISTRIBUTION SYSTEM.
- ② UTILITY POLE MOUNTED TRANSFORMER.
- ③ UTILITY POLE MOUNTED TRANSFORMER GROUNDING SYSTEM.
- ④ SECONDARY SERVICE ENTRANCE CONDUCTORS AND CONDUIT.
- ⑤ KWH METER.
- ⑥ SURGE PROTECTIVE DEVICE, 480V, 1 PHASE.
- ⑦ MAIN SERVICE DISCONNECT, ENCLOSED CIRCUIT BREAKER.
- ⑧ SERVICE GROUNDING ELECTRODE SYSTEM.
- ⑨ FEEDER CONDUCTORS AND CONDUIT, REFER TO "PLANS" FOR DETAILS.
- ⑩ LIGHTING CONTROL CABINET PER FDOT STANDARDS.
- ⑪ LOAD CENTER (SERVICE POINT PANEL), REFER TO "PANELBOARD SCHEDULE" FOR DETAILS.
- ⑫ DUPLEX RECEPTACLE.
- ⑬ 12' PEDESTAL POLE PER FDOT STANDARDS.
- ⑭ 5/8" DIA. X 40' L COPPER GROUND ROD, PROVIDE #1/0 AWG IN 1/2" CONDUIT BONDED TO SERVICE GROUNDING ELECTRODE SYSTEM.
- ⑮ UNIVERSAL LIGHTING RELAY

EXOTHERMIC WELDED CONNECTION (TYPICAL)



LOAD CENTER PANELBOARD SCHEDULE				
480V, 1PH, 2W				
LOAD CENTER A				
CKT. NO.	KVA	AMPS/PHASE	BKR	LOAD
A-1	1.80	3.75	15A	LIGHTING
A-2	2.34	4.88	15A	LIGHTING
A-3	1.98	4.13	15A	LIGHTING
A-4	1.98	4.13	15A	LIGHTING
CONNECTED LOAD:			8.11	KVA
			16.89	AMPS
480V, 1PH, 2W				
LOAD CENTER B				
CKT. NO.	KVA	AMPS/PHASE	BKR	LOAD
B-1	2.52	5.25	15A	LIGHTING
B-2	4.50	9.38	15A	LIGHTING
B-3	2.16	4.50	15A	LIGHTING
B-4	3.42	7.13	15A	LIGHTING
CONNECTED LOAD:			12.60	KVA
			26.26	AMPS

MAINTAINED BY LEE COUNTY

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

KCA
KISINGER CAMPO & ASSOCIATES
201 N. Franklin Street, Suite 400
Tampa, Florida 33602
Engineer of Record: M. Fathy Abdalla, P.E.
P.E. No.: 63914

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD	COUNTY	CONTRACT NO.
CR 865 (ORTIZ AVE.)	LEE COUNTY	CN18-8479

LOAD CENTER

SHEET NO.

L-26