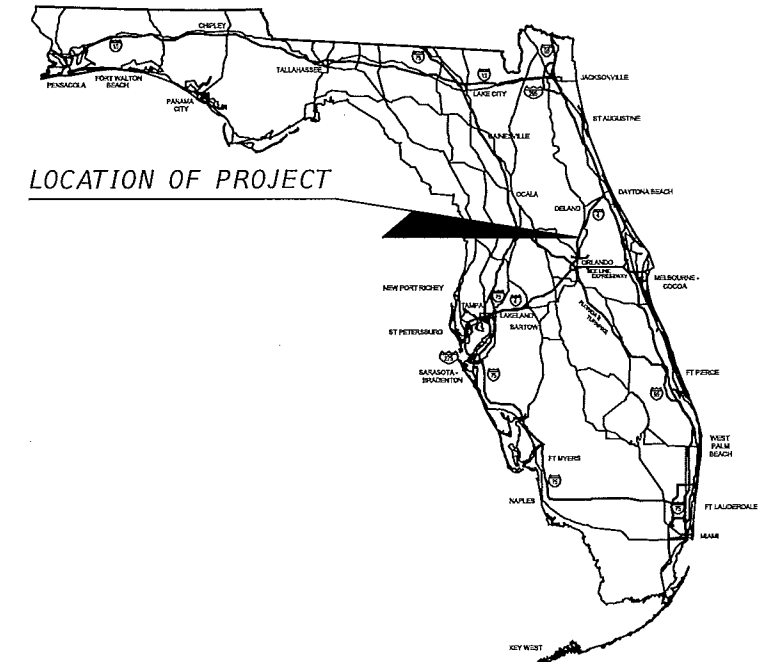


**CENTRAL FLORIDA  
EXPRESSWAY AUTHORITY**

PLANS OF PROPOSED  
S.R. 429 (WEKIVA PARKWAY)  
N. OF PONKAN RD. TO N. OF KELLY PARK RD.  
ORANGE COUNTY

CFX PROJECT NUMBER: 429-203 (PHASE I)



CENTRAL FLORIDA EXPRESSWAY AUTHORITY

WELTON G. CADWELL	CHAIRMAN
S. SCOTT BOYD	VICE CHAIRMAN
BRENDA CAREY	SECRETARY/TREASURER
BUDDY DYER	EX-OFFICIO, CITY OF ORLANDO MAYOR
FRED HAWKINS, JR.	BOARD MEMBER
TERESA JACOBS	EX-OFFICIO, ORANGE COUNTY MAYOR
WALTER A. KETCHAM, JR.	BOARD MEMBER
JAY MADARA	BOARD MEMBER
SHAWN "MICHAEL" SCHEERINGA	BOARD MEMBER

LIGHTING SHOP DRAWINGS  
TO BE SUBMITTED TO:

AMBAR DIAZ-LOZANO, P.E.  
VHB  
225 E. ROBINSON ST., SUITE 300  
LANDMARK CENTER TWO  
ORLANDO, FL 32801

PLANS PREPARED BY:

VHB  
225 E. Robinson Street, Suite 300  
Landmark Center Two  
Orlando, FL 32801  
Phone: (407) 839-4006 Fax: (407) 839-4008  
Certificate of Authorization No. 3932

NOTE: THE SCALE OF THESE PLANS MAY  
HAVE CHANGED DUE TO REPRODUCTION.

LIGHTING PLANS  
ENGINEER OF RECORD: AMBAR DIAZ-LOZANO, P.E.

P.E. NO.: 76215

FISCAL YEAR	SHEET NO.
14	L-1

**INDEX OF LIGHTING PLANS**

<b>SHEET NO.</b>	<b>SHEET DESCRIPTION</b>
L-1	KEY SHEET
L-2 - L-3	TABULATION OF QUANTITIES
L-4	PAY ITEM NOTES
L-5	GENERAL NOTES
L-6	PLAN SHEET LEGEND
L-7	POLE DATA SHEET
L-8 - L-18	LIGHTING PLAN SR 429
L-19 - L-20	LIGHTING PLAN RAMP A
L-21 - L-23	LIGHTING PLAN RAMP B
L-24	LIGHTING PLAN KELLY PARK ROAD
L-25 - L-26	UNDERDECK LIGHTING PLAN
L-27	UNDERDECK LIGHTING DETAIL
L-28	MAINTENANCE LIGHTING GENERAL NOTES AND DETAILS
L-29	MAINTENANCE LIGHTING DATA
L-30	MAINTENANCE LIGHTING PLAN
L-31	MAINTENANCE LIGHTING ELECTRICAL SCHEMATICS

**LIGHTING PLANS**


**WEKIVA PARKWAY - 429-203  
ADDENDUM 2  
MAY 2015**

CFX PROJECT MANAGER: GLENN M. PRESSIMONE, P.E.

KEY SHEET REVISIONS	
DATE	DESCRIPTION



PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			L-18		L-19		L-20		L-21		L-22		L-23		L-24		L-25		L-26		L-30		PLAN	FINAL	PLAN	FINAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL					
630-2-11	Conduit (F&I) (Underground)	LF	1140		703		1154		537		1487		823		537		42		-		-		6423		16828		
630-2-14	Conduit (F&I) (Aboveground)	LF	127		-		-		-		-		-		-		215		107		1090		1539		1539		
635-2-11	Pull & Splice Box (F&I) (13" x 24")	EA	18		6		13		5		15		8		7		11		2		30		115		173		
639-1-122	Electrical Power Service (F&I) (UG) (Meter Purch.)	AS	-		-		1		-		-		-		1		-		-		-		2		2		
639-2-1	Electrical Service Wire (F&I)	LF	-		-		150		-		-		-		28		-		-		-		178		178		
715-1-11	Lighting - Conductors (F&I) (No.10 or smaller)	LF	-		-		240		-		-		-		39		783		321		7630		9013		9737		
715-1-12	Lighting - Conductors (F&I) (No. 8 to No. 6)	LF	4198		-		760		219		2187		705		2976		-		-		-		11045		29240		
715-1-13	Lighting - Conductors (F&I) (No. 4 to No. 2)	LF	2337		2109		3790		1392		2274		1767		1488		-		-		-		15157		33610		
715-4-121	Light Pole Complete (F&I) (130 MPH) (40')	EA	-		6		6		5		7		3		-		-		-		-		27		34		
715-4-122	Light Pole Complete (F&I) (130 MPH) (45')	EA	-		-		-		-		-		-		-		-		-		-		0		15		
715-7-11	Load Center (F&I) Secondary Voltage	EA	-		-		1		-		-		-		1		-		-		-		2		2		
715-11-126	Luminaire (F&I) (Underdeck) (Pendant hung)	EA	-		-		-		-		-		-		-		4		2		-		6		6		
715-50	Lighting- Inside Box Girder	LS	-		-		-		-		-		-		-		-		-		1		1		1		
715-500-1	Light Pole Cable Distribution System (Conventional)	EA	-		6		6		5		7		3		-		-		-		-		27		49		
715-500-3	Light Pole Cable Distribution System (Wall mount)	EA	-		-		-		-		-		-		-		-		-		-		0		2		
715-515-145	Light Pole Comp.-Sp. Design (F&I)(Bridge Mt.)(45')	EA	-		-		-		-		-		-		-		-		-		-		0		2		

<p style="text-align: center;">REVISIONS</p> <table border="1"> <thead> <tr> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> <th>DATE</th> <th>BY</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>						DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							<p>AMBAR DIAZ-LOZANO, P.E. P.E. LICENSE NUMBER 76215 VHB 225 E. ROBINSON ST., SUITE 300 LANDMARK CENTER TWO ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION NO. 3932</p>				<p style="text-align: center;"><b>CENTRAL FLORIDA EXPRESSWAY AUTHORITY</b></p> <table border="1"> <tr> <td>ROAD NO.</td> <td>PROJECT NO.</td> </tr> <tr> <td>SR 429</td> <td>429-203</td> </tr> </table>		ROAD NO.	PROJECT NO.	SR 429	429-203			<p><b>TABULATION OF QUANTITIES</b></p>		<p>SHEET NO. L-3</p>
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION																											
ROAD NO.	PROJECT NO.																															
SR 429	429-203																															

1. ITEM 630-2-11 SHALL INCLUDE ALL CONDUIT, ELBOWS, SWEEPS, CONNECTING HARDWARE, AND TRENCHING AND BACKFILL AS INDICATED IN THE PLANS AND THE DESIGN STANDARDS. THE LINEAR FOOT PRICE FOR CONDUIT SHALL ALSO INCLUDE THE COST OF RESTORING CUT PAVEMENT, SIDEWALKS, SOD, ETC. TO ITS ORIGINAL CONDITION. SURFACE MOUNT CONDUIT SHALL BE PAINTED TO MATCH THE MOUNTING SURFACE. CONDUIT DOES NOT HAVE TO BE PAINTED IN THE ENCLOSED BRIDGE END SPANS.
2. ITEM 635-2-11: PULL BOX COVERS SHALL BE NON-METALLIC EXCEPT FOR PULL BOXES LOCATED WITHIN THE ROADWAY PAVEMENT. FOR PULL BOXES LOCATED WITHIN THE ROADWAY PAVEMENT, PROVIDE A CONCRETE PULL BOX WITH METALLIC COVER CAPABLE OF WITHSTANDING A 16,000 POUND LOAD. A FOUR (4) INCH THICK CONCRETE SLAB SHALL BE PLACED BELOW THE PULL BOX ALONG WITH PEAROCK AND FILTER FABRIC. THE COST FOR THIS MATERIAL SHALL BE INCLUDED IN ITEM 635-2-11. THE PULL BOX SHALL BE WIRED IN ACCORDANCE WITH THE WIRING DETAIL ON INDEX 17500.
3. ITEM 635-2-11 SHALL INCLUDE THE COST OF THE CONCRETE SLAB AROUND THE PULL BOX PER INDEX 17500.
4. ITEMS 715-4-121 AND 715-4-122 SHALL INCLUDE THE CONCRETE SLAB AROUND LIGHT POLE PER INDEX 17500. "COPPER KEEPER" OR EQUIVALENT ANTI-THEFT DEVICES SHALL BE INCLUDED IN THE COST AS WELL FOR EACH LIGHT POLE COMPLETE. THE POLE, DAVIT ARM, LUMINAIRE WITH LAMP, ANCHOR BOLTS WITH LOCK NUTS AND WASHERS, FRANGIBLE TRANSFORMER BASES AND STANDARD FOUNDATIONS SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF ITEMS 715-4-121 AND 715-4-122.
5. ITEM 715-7-11 SHALL INCLUDE NEMA 3R SAFETY SWITCH ON THE LINE SIDE OF THE METER, METER BASE, DISCONNECT SWITCH, SERVICE POLE INSULATORS, WEATHERHEADS, 480-120V CONTROL POWER TRANSFORMERS, FUSES, LIGHTING PROTECTION ON THE OUTSIDE OF ENCLOSURE, ENCLOSURES, PANEL BOARDS, PHOTO-ELECTRIC ASSEMBLY, BREAKERS, CONDUIT AND FEEDER CONDUCTORS FROM POWER COMPANY POINT OF SERVICE TO LOAD CENTER, PULL BOX, AND ALL MISCELLANEOUS HARDWARE FOR A COMPLETE INSTALLATION AS PER THE PLANS AND STANDARD INDEX NO. 17504. INCLUDE THE COST OF FURNISHING AND INSTALLING TYPE P-11 CONCRETE POLE AND ALL FEES FOR INSPECTION OF CONNECTION OF THE ELECTRICAL SERVICE. CABINET AND EXPOSED CONDUIT SHALL BE PAINTED THE SAME AS THE LIGHT POLES.
6. ITEM 715-11-126 SHALL INCLUDE PAYMENT FOR ALL ITEMS NECESSARY FOR COMPLETE INSTALLATION INCLUDING SURFACE MOUNT JUNCTION BOXES, AS SHOWN ON SHEETS L-25 AND L-26.
7. ITEMS 715-500-1 AND 715-500-3: POLE CABLE DISTRIBUTION SYSTEMS SHALL BE INSTALLED IN ALL PULL BOXES LOCATED ADJACENT TO ALL PROPOSED POLES. POLE CABLE DISTRIBUTION SYSTEM SHALL BE MANUFACTURED BY DURALINE OR A CFX APPROVED EQUIVALENT.
8. ALL SIGN LUMINAIRES INSTALLED ON NEW SIGNS SHALL BE PAID FOR IN THE COST OF THE LIGHTED SIGNS IN THE SIGNING AND PAVEMENT MARKING PLANS COMPONENT SET.

REVISIONS						AMBAR DIAZ-LOZANO, P.E. P.E. LICENSE NUMBER 76215 VHB 225 E. ROBINSON ST., SUITE 300 LANDMARK CENTER TWO ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION NO. 3932	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CFX	PAY ITEM NOTES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	PROJECT NO.			L-4
							SR 429	429-203			

\$USERS\$ \$DATES\$ \$TIMES\$ \$FILES\$

1. SPARE CONDUIT SHALL BE PLACED AT ALL MAINLINE PAVEMENT CROSSINGS AND IN BRIDGE RAILINGS. SPARE CONDUIT SHALL BE CAPPED AND SEALED AT BOTH ENDS. PAYMENT FOR THE MAINLINE SPARE CONDUIT SHALL BE PAID FOR UNDER PAY ITEM NUMBER 630-2-11. PAYMENT FOR THE BRIDGE RAILING SPARE CONDUIT SHALL BE PAID FOR IN THE STRUCTURAL PLANS.
  2. 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
    - B) LOAD CENTER ELECTRICAL EQUIPMENT
    - \* C) POLE SHOP DRAWINGS
    - \* D) POLE STRENGTH CALCULATIONS
    - \* E) POLE FRANGIBILITY TEST
    - F) BOLT SPECIFICATIONS AND BOLT CIRCLE DIAMETER
    - G) MAINTENANCE LIGHTING CONDUIT ROUTING AND CONDUIT MOUNTING DETAIL
    - H) "COPPER KEEPER" OR EQUIVALENT ANTI-THEFT DEVICES
- \* ITEMS C, D, AND E ARE NOT REQUIRED FOR STANDARD POLES WITH STANDARD FOUNDATIONS.
- SUBMITTAL DATA SHALL INCLUDE A COMPUTER PRINTOUT SHOWING HORIZONTAL FOOT CANDLE LEVELS TO BE OBTAINED USING THE 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. PAYMENT TO BE INCIDENTAL TO THE LIGHTING AND LUMINAIRE PAY ITEM NUMBERS. A REPORT DETAILING ACTUAL FIELD LIGHT LEVEL READINGS SHALL BE SUBMITTED FOR APPROVAL. SEVEN (7) COPIES OF SHOP DRAWINGS AND DESIGN DATA FOR HIGHWAY LIGHTING EQUIPMENT AND LOAD CENTER ELECTRICAL EQUIPMENT SHALL BE SUBMITTED TO THE ENGINEER IN CHARGE OF THE PROJECT.
3. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNERS(S) AND ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND NOTIFY UTILITY OWNER(S) FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING.
  4. FLORIDA STATUTE 553.851 (2004) AND 556 (2004) REQUIRES THAT BEFORE EXCAVATING, NOTICE BE GIVEN TO THE UTILITY OWNER A MINIMUM OF TWO (2) DAYS AND A MAXIMUM OF FIVE (5) DAYS, EXCLUDING SATURDAY, SUNDAY AND LEGAL HOLIDAYS. NOT ALL UTILITY COMPANIES ARE MEMBERS OF "SUNSHINE" 1-800-432-4770, SEE ROADWAY PLANS FOR UTILITY OWNERS PHONE NUMBERS.
  5. THE LOCATIONS 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.
  6. ALUMINUM POLES, LUMINAIRES, AND BASES SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH 2001 AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AND SHALL HAVE BEEN TESTED BY FHWA-APPROVED METHODS. CERTIFICATION FOR TESTS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
  7. ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL SAFETY CODE, AND THE STATE OF FLORIDA DOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER N.E.C. REQUIREMENTS.
  8. INSTALL LIGHTNING ARRESTORS, PROPERLY GROUNDED IN POWER (SECONDARY) ENTRANCES.
  9. IN ACCORDANCE WITH N.E.C. IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACOID TAGS", INSTALL SIMILAR TAGS OF STAINLESS STEEL IDENTIFYING THE CIRCUIT FOR EACH LUMINAIRE AT ACCESS HANDHOLE FOR EACH POLE.
  10. THE CONTRACTOR SHALL NOTIFY DUKE ENERGY AT LEAST 48 HOURS PRIOR TO ANY INSTALLATION THAT IS WITHIN TEN (10) FEET OF ENERGIZED ELECTRICAL CONDUCTORS. DUKE ENERGY, AT ITS OPTION, SHALL ASSIST THE CONTRACTOR, PROVIDE PROTECTION FOR 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.
  11. 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. PULLCABLE SHALL BE POLYESTER. STEEL CABLE OR FISH TAPES SHALL NOT BE UTILIZED.
  12. FURNISH AND INSTALL AN ALUMINUM IDENTIFICATION TAG ON EACH ROADWAY LIGHTING POLE. TAGS SHALL BE 2" X 8" IN SIZE WITH BLACK LETTERS ON YELLOW BACKGROUND, ATTACHED WITH RIVETS (NO SCREWS). NUMBERS SHALL BE AS SHOWN ON THE POLE DATA SHEET ON THE POLE IDENTIFICATION TAG DETAIL. COST OF TAGS SHALL BE INCLUDED IN THE BID ITEMS FOR LIGHT POLE COMPLETE FOR PROPOSED POLES. TAG SHALL BE PLACED 5' ABOVE GRADE, EXCEPT FOR WALL/BRIDGE MOUNTED POLES. ON WALL/BRIDGE MOUNTED POLES THE TAG SHALL BE PLACED 1' ABOVE THE TOP OF WALL. SEE DETAIL ON L-6.
  13. THE LIGHT POLES SHALL BE GROUNDED PER STANDARDS REGARDLESS OF LOCAL PRACTICES. GROUNDED THE POLES THROUGH THE HANDHOLE IS UNACCEPTABLE.
  14. THE CONTRACTOR SHALL REFERENCE STRUCTURAL PLANS TO DETERMINE THE LOCATION OF ABUTMENT WALL STRAPS IN THE VICINITY OF ALL OVERPASS BRIDGES. CARE SHALL BE TAKEN TO NOT DAMAGE STRAPS WHEN POLE FOUNDATIONS ARE PLACED.
  15. THE CONCRETE PAD INDICATED IN INDEX 17500 IS REQUIRED AROUND LIGHTING POLES AND PULL BOXES.
  16. THE CONTRACTOR SHALL VERIFY POLE LENGTHS REQUIRED PER THE CROSS SECTIONS AND OFFSETS IN ORDER TO ACHIEVE THE PROPER LUMINAIRE MOUNTING HEIGHT PRIOR TO SUBMITTING SHOP DRAWINGS.
  17. ALL CONDUITS UNDER ROADWAY (AND/OR SIDEWALK) SHALL BE INSTALLED PRIOR TO INSTALLATION OF ROADWAY BASE AND SURFACE (OR CONCRETE), EXCEPT WHERE OTHERWISE SPECIFIED IN THE PLANS.
  18. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE WITHIN 2 FEET OF THE LIGHTING POLE FOUNDATIONS OR CONDUIT RUN AS DETERMINED BY THE ENGINEER, THE CONTRACTOR WILL HAND DIG THE FIRST 4 FEET OF HOLE FOR THE POLE FOUNDATION AND CONDUIT RUN.
  19. ALL PULL BOX COVERS SHALL BE MARKED "STREET LIGHTING". ALL PULL BOX COVERS SHALL BE NON-METALLIC EXCEPT FOR PULL BOXES LOCATED WITHIN THE ROADWAY PAVEMENT.

20. 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. THE CONTRACTOR IS TO TAKE EXTRA CARE AND HAND DIG THE CONDUIT AT UTILITY CONFLICT.
21. CONTRACTOR SHALL PREPARE ACCURATELY DIMENSIONED "AS BUILT" PLANS OF FINAL POLE, CONTROLLER, CABLE AND CONDUIT LOCATIONS. PLANS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND SUBMITTED TO THE RESIDENT ENGINEER. COST OF SUCH PREPARATION SHALL BE INCIDENTAL TO PAY ITEMS PROVIDED.
22. ALL SPLICES SHALL BE MADE IN PULL BOXES ONLY WITH COMPRESSION SLEEVES OR SPLIT BOLT CONNECTIONS, PROPERLY TAPED AND WATERPROOFED.
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 PLANS. THE CONNECTION MADE AT THESE POINTS SHOULD BE PROPERLY TAPED AND HEAT SHRINK TUBES OR CAPS SHALL BE USED TO WATERPROOF THESE CONNECTIONS.
24. 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 LENS ONLY.
25. ALL CONDUITS SHALL BE MANDREL TESTED AND CLEANED. CONDUIT PLACED FOR FUTURE USE SHALL HAVE 3/4" 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.
26. SCREW TYPE ANCHOR FOUNDATION IS NOT TO BE USED ON THIS PROJECT.
27. LIGHTING CONTRACTOR SHALL COORDINATE WITH STRUCTURAL CONTRACTOR TO ENSURE PROPER MOUNTING BOLT CIRCLES ARE CONSTRUCTED FOR THE PROPOSED POLE BASES AND TO COORDINATE LOCATIONS OF EMBEDDED CONDUIT AND PULL BOXES WITHIN THE WALLS AND BRIDGES.
28. NECESSARY CARE SHALL BE TAKEN SUCH THAT EXISTING POLES AND LUMINAIRES TO REMAIN ARE NOT DAMAGED DURING CONSTRUCTION. DAMAGED POLES AND LUMINAIRES, AS DETERMINED BY THE RESIDENT ENGINEER SHALL BE REPLACED BY THE CONTRACTOR.
29. THE CONTRACTOR SHALL FIELD VERIFY UNDERDECK LIGHTING OFFSETS PROVIDED SUCH THAT THEY ARE ATTACHED TO THE BOTTOM OF THE BRIDGE DECK SLAB AT EQUAL DISTANCES BETWEEN THE ADJACENT BEAMS. SHOULD ADJUSTMENT OF THE OFFSETS BE REQUIRED TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL DO SO UPON APPROVAL OF THE ENGINEER.
30. WALL OR BRIDGE MOUNTED POLES SHALL NOT BE PLACED WITHIN 5' OF OPEN JOINTS ON MSE WALLS OR BRIDGES.
31. REFERENCE THE BRIDGE STRUCTURAL PLANS FOR THE EMBEDDED ELECTRICAL ITEMS: CONDUIT, PULL BOX, JUNCTION BOX AND THEIR LOCATIONS. THE STRUCTURAL DETAILS OF THE HANGER SUPPORTS, CONDUIT CONNECTIONS AND BRACING, SHALL BE SUBMITTED FOR REVIEW AND SIGNED AND SEALED BY A FLORIDA REGISTERED PROFESSIONAL ENGINEER.
32. ALL POLES MOUNTED ON BRIDGES OR WALLS SHALL HAVE HANDHOLES FACING THE TRAFFIC LANES.
33. AT ALL LOCATIONS WHERE PROPOSED LIGHTING CONDUIT CROSSES PERPENDICULAR TO PROPOSED OR EXISTING WALL FOOTINGS, CONTRACTOR SHALL MAINTAIN 1' CLEARANCE FROM BOTTOM OF FOOTING TO TOP OF CONDUIT.
34. CONTRACTOR TO COORDINATE WITH RESIDENT ENGINEER AND STRUCTURES CONTRACTOR PRIOR TO THE INSTALLATION OF ANY SURFACE MOUNTED CONDUIT USED TO POWER MAINTENANCE OR UNDERDECK LIGHTING OR ASSOCIATED HARDWARE. THE CONDUIT ROUTING PLAN AND CONDUIT MOUNTING DETAIL FOR MAINTENANCE LIGHTING MUST BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.
35. CONTRACTOR TO LABEL AND IDENTIFY THE CONDUCTORS AT EACH ACCESSIBLE POINT AND EACH PULL BOX WHENEVER THE CONDUIT CONTAINS CONDUCTORS FROM TWO DIFFERENT LOAD CENTERS.
36. ALL LIGHTING ASSEMBLIES SHALL BE ALUMINUM DAVIT ARM POLES WITH AN 8' RADIUS, EQUIVALENT TO A HAPCO SERIES 40 ALUMINUM POLE OR APPROVED EQUAL, MEETING THE MOUNTING HEIGHTS SPECIFIED IN THESE PLANS. THESE ASSEMBLIES ALONG WITH THE LUMINAIRE AND FRANGIBLE TRANSFORMER TYPE BASE, SHALL BE PAINTED DARK BRONZE (FEDERAL COLOR NO. 20062) USING A THERMOSET POWDER PAINT FINISH. CONTRACTOR TO SUBMIT A COLOR CHIP FOR APPROVAL. DO NOT PAINT LOAD CENTER CABINETS.
37. SIGN ILLUMINATION SHALL BE SIMILAR OR EQUAL TO PHILIPS HADCO LEDGINE LED SIGN LIGHT, MODEL C10735 (A OR B)X79 OR 104 WATTS / 480 VOLTS) OR AUTHORITY APPROVED EQUAL. THE C10735 IS A SPECIAL ORDER PRODUCT BASED ON THE HADCO FX SERIES WITH MODIFIED OPTICS. PRODUCT CONTAINS 48 OR 96 LEDS AND SHALL CONFORM TO IES C10735A OR C10735B. SIGN LUMINAIRES SHALL BE PROVIDED WITH DRIVER OR SURGE PROTECTION LOCATED REMOTELY IN REMOTE LED DRIVER BOX MOUNTED AT THE POLE. SIGN LUMINAIRES SHALL BE GREY OR SILVER IN COLOR. ILLUMINATION FOR EACH SIGN SHALL BE BETWEEN 15 AND 20 FOOTCANDLES AVERAGE INITIAL WITH A MAXIMUM-TO-MINIMUM UNIFORMITY RATIO OF 6:1 OR LESS. TOP MOUNTED LUMINAIRES SHALL NOT BE ALLOWED ON OVERHEAD SIGN STRUCTURES ALONG ANY PORTION OF THE MAINLINE OR ON RAMPS WITHIN THE CFX JURISDICTION WITHOUT PRIOR AUTHORITY APPROVAL. THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A COMPUTER PRINTOUT FOR EACH SIGN INDICATING THAT THE SELECTED LUMINAIRE MEETS OR EXCEEDS THE ABOVE CRITERIA. THE NUMBER OF LUMINAIRES INDICATED ON INDEX 17505 IS SUPERSEDED BY THE NUMBER OF LUMINAIRES INDICATED IN THE SCHEDULE OF LIGHTED SIGNS.

REVISIONS						AMBAR DIAZ-LOZANO, P.E. P.E. LICENSE NUMBER 76215 VHB 225 E. ROBINSON ST., SUITE 300 LANDMARK CENTER TWO ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION NO. 3932	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CFX	GENERAL NOTES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	PROJECT NO.			
							SR 429	429-203			

\$USERS\$ \$DATES\$ \$TIMES\$ \$FILES\$

**CONVENTIONAL LIGHTING DESIGN CRITERIA**

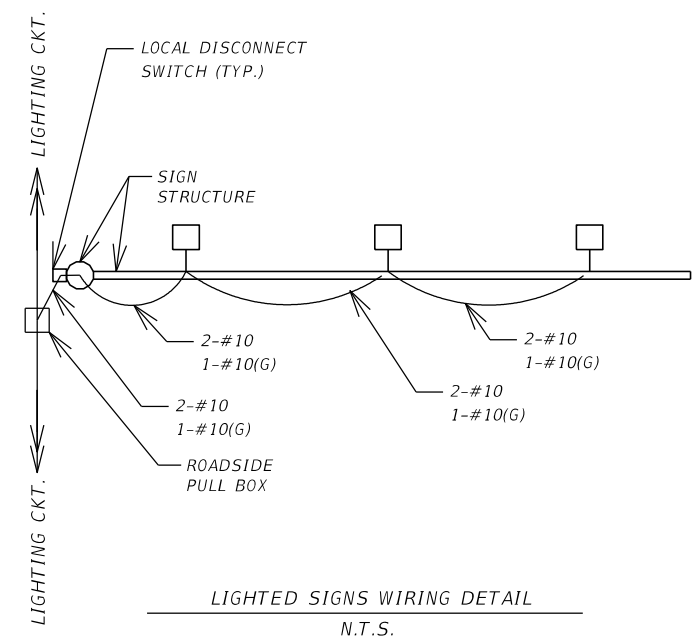
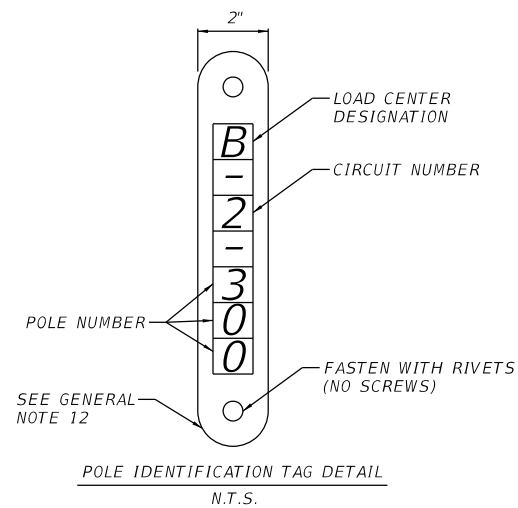
AVERAGE INITIAL INTENSITY	1.5 F.C. (DESIRED)
SIDEWALKS AND SHARED USED PATHS AVERAGE INITIAL INTENSITY	2.5 F.C. (DESIRED)
UNIFORM RATIO AVG./MIN. MAX./MIN.	4:1 OR LESS 10:1 OR LESS
VEILING LUMINANCE RATIO	0.3:1 OR LESS
WIND SPEED	130 MPH (ORANGE COUNTY)

**UNDERDECK LIGHTING DESIGN CRITERIA**

AVERAGE INITIAL INTENSITY	1.5 F.C. (DESIRED)
UNIFORM RATIO AVG./MIN. MAX./MIN.	4:1 OR LESS 10:1 OR LESS
VEILING LUMINANCE RATIO	0.3:1 OR LESS
WIND SPEED	130 MPH (ORANGE COUNTY)

**OVERHEAD SIGN LIGHTING DESIGN CRITERIA**

AVERAGE INITIAL INTENSITY	15 F.C. MIN. TO 20 F.C. MAX
UNIFORM RATIO MAX./MIN.	6:1 OR LESS



**PLAN SHEET LEGEND**

**SYMBOL DESCRIPTION**

- SR 429-203A (PHASE II) FUTURE LIGHT POLE COMPLETE ASSEMBLY. CONCRETE SLAB AND PULL BOX TO BE INSTALLED IN SR 429-203 (PHASE I) AND SHALL BE PAID FOR UNDER ITEM 635-2-11 PULL & SPLICE BOX. THE CONCRETE SLAB IS INCLUDED IN THE PRICE OF THE PULL BOX.
- 45' SHOULDER MOUNTED 400 WATT HIGH PRESSURE SODIUM (HPS) LIGHT POLE COMPLETE DESIGNED FOR MEDIUM CUTOFF, TYPE III DISTRIBUTION, AUTO REGULATOR TYPE BALLAST WIRED FOR 480 VOLT OPERATION. MOUNTING HEIGHT OF 45'. GE MODEL M-400 SERIES LUMINAIRE PHOTOMETRIC CURVE #35-451002 OR AUTHORITY APPROVED EQUAL. SYMBOL INCLUDES CONCRETE SLAB, PULL BOX, AND POLE CABLE DISTRIBUTION SYSTEM. THE CONCRETE SLAB IS INCLUDED IN THE PRICE OF THE LIGHT POLE COMPLETE AND THE PULL BOX AND POLE CABLE DISTRIBUTION SYSTEM ARE PAID FOR AS SEPARATE PAY ITEMS.
- 40' SHOULDER MOUNTED 250 WATT HIGH PRESSURE SODIUM (HPS) LIGHT POLE COMPLETE DESIGNED FOR MEDIUM CUTOFF, TYPE III DISTRIBUTION, AUTO REGULATOR TYPE BALLAST WIRED FOR 480 VOLT OPERATION. MOUNTING HEIGHT OF 40'. GE MODEL M-400 SERIES LUMINAIRE PHOTOMETRIC CURVE #35-451045 OR AUTHORITY APPROVED EQUAL. SYMBOL INCLUDES CONCRETE SLAB, PULL BOX, AND POLE CABLE DISTRIBUTION SYSTEM. THE CONCRETE SLAB IS INCLUDED IN THE PRICE OF THE LIGHT POLE COMPLETE AND THE PULL BOX AND POLE CABLE DISTRIBUTION SYSTEM ARE PAID FOR AS SEPARATE PAY ITEMS.
- 45' BRIDGE MOUNTED 400 WATT HIGH PRESSURE SODIUM (HPS) LIGHT POLE COMPLETE DESIGNED FOR MEDIUM CUTOFF, TYPE III DISTRIBUTION, AUTO REGULATOR TYPE BALLAST WIRED FOR 480 VOLT OPERATION. MOUNTING HEIGHT OF 45'. GE MODEL M-400 SERIES LUMINAIRE PHOTOMETRIC CURVE #35-451002 OR AUTHORITY APPROVED EQUAL. SYMBOL INCLUDES EMBEDDED PULL BOX AND POLE CABLE DISTRIBUTION SYSTEM; HOWEVER, THESE ITEMS ARE PAID FOR AS SEPARATE PAY ITEMS. SEE STRUCTURAL PLANS REGARDING INSTALLATION DETAILS.
- EXISTING ROADWAY LIGHT POLE COMPLETE TO REMAIN.
- UNDERDECK LED LUMINAIRES BASIS OF DESIGN IS CREE LIGHTING THE EDGE CANOPY LUMINAIRE TYPE V MEDIUM, MODEL NUMBER CAN-EDG-5M-PD-12-D-UH-BK-350-43K OR AUTHORITY APPROVED EQUAL WITH BIRD SPIKES. FIXTURE SHALL BE PENDANT HUNG (SEE DETAIL SHEET L-264). SYMBOL INCLUDES SURFACE MOUNT PULL BOX.
- SERVICE POINT. FOR REQUIREMENTS SEE INDEX 17504 OF DESIGN STANDARDS.

**SYMBOL DESCRIPTION**

- PULL BOX (SEE INDEX 17500 DESIGN STANDARDS BOOKLET DATED JANUARY 2014). PULL BOXES WITH CONCRETE SLAB REQUIRED AT BOTH ENDS OF THE CONDUIT AT ROADWAY CROSSINGS AND AS NECESSARY FOR COMPLETION OF THE PROJECT. PULL BOX COVER SHALL HAVE "STREET LIGHTING" LOGO. SYMBOL INCLUDES PULL BOX CONCRETE SLAB WHICH IS PAID FOR IN THE PRICE OF THE PULL BOX.
- WALL OR BRIDGE EMBEDDED PULL BOX INTEGRAL TO STRUCTURE (1'-6" X 1'-6" X 8" MAX.) PAID AND INSTALLED UNDER STRUCTURAL CONTRACT. EMBEDDED PULL BOXES SHALL OPEN FROM THE BACK SIDE OF THE TRAFFIC RAILING/BARRIER PER FDOT SPECIFICATIONS.
- SURFACE MOUNT PULL BOX (SEE ROADWAY AND TRAFFIC DESIGN STANDARDS BOOKLET DATED JANUARY 2014). SURFACE MOUNT CONDUIT LAYOUT IN PLANS IS SCHEMATIC IN NATURE, AND MAY BE MODIFIED BY THE CONTRACTOR. THE TYPE AND SIZE OF PULL BOXES TO BE CONSISTENT WITH CONDUIT AND FINAL LAYOUT OF CONDUIT PROPOSED BY CONTRACTOR. MINIMUM PULL BOX DIMENSION IS 15" X 15" X 12".
- 1" RGS GALVANIZED CONDUIT SURFACE MOUNT WITH TYPE THWN-2 STRANDED COPPER CONDUCTORS INSIDE FOR CONVENTIONAL LIGHTING OR TYPE RHW OR THW STRANDED COPPER CONDUCTORS INSIDE FOR UNDERDECK LIGHTING (CONDUCTOR AND GROUND WIRE SIZES SHOWN ON PLAN SHEETS) AND INSULATED GREEN STRANDED CU BOND WIRE CONNECTING ALL POLES AND INSULATED STRANDED COPPER CIRCUIT CONDUCTORS.
- PROPOSED 2" SCHEDULE 40 P.V.C. UNDERGROUND CONDUIT WITH TYPE THWN-2 STRANDED COPPER CONDUCTORS INSIDE (CONDUCTOR AND GROUND WIRE SIZES SHOWN ON PLAN SHEETS) AND INSULATED GREEN STRANDED CU BOND WIRE CONNECTING ALL POLES AND INSULATED STRANDED COPPER CIRCUIT CONDUCTORS.
- PROPOSED 2" SCHEDULE 40 HDPE UNDERGROUND CONDUIT WITH TYPE THWN-2 STRANDED COPPER CONDUCTORS (CONDUCTOR AND GROUND WIRE SIZES SHOWN ON PLAN SHEETS) AND INSULATED GREEN STRANDED CU BOND WIRE CONNECTING ALL POLES AND INSULATED STRANDED COPPER CIRCUIT CONDUCTORS. ONE CONDUIT PROVIDED FOR CONDUCTORS AND ONE CONDUIT PROVIDED AS A SPARE. CONDUIT TO BE PLACED IN OPEN TRENCH PRIOR TO CONSTRUCTION OF NEW ROADWAY PAVEMENT.
- PROPOSED 2" P.V.C. CONDUIT EMBEDDED IN CONCRETE BRIDGE RAIL OR WALL WITH TYPE THWN-2 STRANDED COPPER CONDUCTORS INSIDE FOR CONVENTIONAL LIGHTING OR TYPE RHW OR THW STRANDED COPPER CONDUCTORS INSIDE FOR UNDERDECK LIGHTING (CONDUCTOR AND GROUND WIRE SIZES SHOWN ON PLAN SHEETS) AND INSULATED GREEN STRANDED CU BOND WIRE CONNECTING ALL POLES AND INSULATED STRANDED COPPER CIRCUIT CONDUCTORS. PAID FOR IN STRUCTURAL PLANS.

REVISIONS						AMBAR DIAZ-LOZANO, P.E. P.E. LICENSE NUMBER 76215 VHB 225 E. ROBINSON ST., SUITE 300 LANDMARK CENTER TWO ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION NO. 3932	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CFX	PLAN SHEET LEGEND	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	PROJECT NO.			L-6

SR 429 POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK	PAY ITEM
100	A-1	282+22.00	15'	400 W	45'	5' BEHIND F.O. GRDRL.	715-4-122
101	A-1	283+16.00	15'	400 W	45'	5' BEHIND F.O. GRDRL.	715-4-122
102	A-1	284+10.00	15'	400 W	45'	5' BEHIND F.O. GRDRL.	715-4-122
103	A-1	285+04.00	15'	400 W	45'	5' BEHIND F.O. GRDRL.	715-4-122
104	A-1	285+98.00	15'	400 W	45'	5' BEHIND F.O. GRDRL.	715-4-122
105	A-1	286+92.00	10'	400 W	45'	BRIDGE MOUNTED	715-515-145
106	A-1	287+86.00	10'	400 W	45'	BRIDGE MOUNTED	715-515-145
107	A-1	288+79.99	15'	400 W	45'	5' BEHIND F.O. GRDRL.	715-4-122
108	A-1	289+74.01	15'	400 W	45'	5' BEHIND F.O. GRDRL.	715-4-122
109	A-1	290+68.00	15'	400 W	45'	5' BEHIND F.O. GRDRL.	715-4-122
110	A-1	291+62.01	15'	400 W	45'	5' BEHIND F.O. GRDRL.	715-4-122
111	A-1	292+56.00	15'	400 W	45'	5' BEHIND F.O. GRDRL.	715-4-122
112	A-1	293+50.01	15'	400 W	45'	5' BEHIND F.O. GRDRL.	715-4-122
113	A-2	294+44.00	15'	400 W	45'	5' BEHIND F.O. GRDRL.	715-4-122
114	A-1	295+38.00	15'	400 W	45'	5' BEHIND F.O. GRDRL.	715-4-122
115	A-2	296+32.00	15'	400 W	45'	5' BEHIND F.O. GRDRL.	715-4-122
116	A-1	296+69.71	15'	400 W	45'	14' FROM E.O.T.	715-4-122

RAMP B POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK	PAY ITEM
300	A-2	2297+38.99	8'	250 W	40'	14' FROM E.O.T.	715-4-121
301	A-3	2298+43.04	8'	250 W	40'	14' FROM E.O.T.	715-4-121
302	A-3	2299+44.22	8'	250 W	40'	14' FROM E.O.T.	715-4-121
303	A-3	2300+43.45	8'	250 W	40'	14' FROM E.O.T.	715-4-121
304	A-3	2301+54.94	8'	250 W	40'	14' FROM E.O.T.	715-4-121
305	A-3	2302+58.99	8'	250 W	40'	14' FROM E.O.T.	715-4-121
306	A-3	2303+63.01	8'	250 W	40'	14' FROM E.O.T.	715-4-121
307	A-3	2304+67.00	8'	250 W	40'	14' FROM E.O.T.	715-4-121
308	A-3	2305+71.00	8'	250 W	40'	14' FROM E.O.T.	715-4-121
309	A-3	2306+75.02	8'	250 W	40'	14' FROM E.O.T.	715-4-121
310	A-3	2307+79.01	8'	250 W	40'	14' FROM E.O.T.	715-4-121
311	A-3	2308+82.94	8'	250 W	40'	14' FROM E.O.T.	715-4-121
312	A-3	2309+86.86	8'	250 W	40'	14' FROM E.O.T.	715-4-121
313	A-3	2310+91.18	8'	250 W	40'	14' FROM E.O.T.	715-4-121
314	A-3	2311+95.08	8'	250 W	40'	14' FROM E.O.T.	715-4-121
315	A-3	2312+88.88	8'	250 W	40'	14' FROM E.O.T.	715-4-121
316	A-3	2313+93.00	8'	250 W	40'	14' FROM E.O.T.	715-4-121
317	A-3	2314+93.66	8'	250 W	40'	14' FROM E.O.T.	715-4-121

RAMP A POLE DATA

POLE NO.	CIRCUIT	STATION	DIST. OR ARM	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK	PAY ITEM
200	A-1	1297+80.01	8'	250 W	40'	14' FROM E.O.T.	715-4-121
201	A-1	1298+84.03	8'	250 W	40'	14' FROM E.O.T.	715-4-121
202	A-1	1299+88.06	8'	250 W	40'	14' FROM E.O.T.	715-4-121
203	A-1	1300+91.99	8'	250 W	40'	14' FROM E.O.T.	715-4-121
204	A-1	1301+96.00	8'	250 W	40'	14' FROM E.O.T.	715-4-121
205	A-1	1303+00.00	8'	250 W	40'	14' FROM E.O.T.	715-4-121
206	A-1	1304+03.97	8'	250 W	40'	14' FROM E.O.T.	715-4-121
207	A-1	1305+07.94	8'	250 W	40'	14' FROM E.O.T.	715-4-121
208	A-1	1306+12.06	8'	250 W	40'	14' FROM E.O.T.	715-4-121
209	A-1	1307+16.03	8'	250 W	40'	14' FROM E.O.T.	715-4-121
210	A-1	1308+20.00	8'	250 W	40'	14' FROM E.O.T.	715-4-121
211	A-1	1309+24.00	8'	250 W	40'	14' FROM E.O.T.	715-4-121
212	A-1	1310+28.00	8'	250 W	40'	5' BEHIND F.O. GRDRL.	715-4-121
213	A-1	1311+32.00	8'	250 W	40'	5' BEHIND F.O. GRDRL.	715-4-121
214	A-1	1312+36.00	8'	250 W	40'	5' BEHIND F.O. GRDRL.	715-4-121
215	A-2	1313+40.00	8'	250 W	40'	14' FROM E.O.T.	715-4-121

SR 429 UNDERDECK LIGHTS

LUM. NO.	CIRCUIT	STATION	LUMINAIRE WATTAGE	MOUNTING HEIGHT	LUMINAIRE/PENDANT OFFSET	PAY ITEM
UD-1	A-4	313+51.05	132 W	16'-6"	62.1' RT $\oslash$ SR 429	715-11-126
UD-2	A-4	313+52.61	132 W	16'-6"	62.1' LT $\oslash$ SR 429	715-11-126
UD-3	A-4	287+53.04	132 W	16'-6"	52.0' LT $\oslash$ SR 429	715-11-126
UD-4	A-4	286+93.04	132 W	16'-6"	52.0' LT $\oslash$ SR 429	715-11-126
UD-5	A-4	287+53.04	132 W	16'-6"	52.0' RT $\oslash$ SR 429	715-11-126
UD-6	A-4	286+93.04	132 W	16'-6"	52.0' RT $\oslash$ SR 429	715-11-126

LIGHTED SIGNS

SIGN NO.	CIRCUIT	STATION	LUMINAIRE WATTAGE	NO. OF LUM.	ARM L. (FT)	SIGN DIM. (WxH)	STR. NO.
12	A-4	242+14.41 $\oslash$ SR 429	104 W	2	4	18'-0"x7'-0" / 18'-0"x3'-0"	OC-2
14	A-4	368+65.00 $\oslash$ NB SR 429	104 W	2	4	18'-0"x7'-0" / 18'-0"x3'-0"	OC-3
16	A-2	2295+19.00 $\oslash$ RAMP B	104 W	2	4	21'-6"x5'-6" / 21'-6"x3'-0"	OC-4
23	A-1	78+81.00 $\oslash$ KELLY PARK RD	104 W	2	4	15'-0"x14'-0" / 15'-0"x3'-0"	OC-9
25	B-1	86+00.00 $\oslash$ KELLY PARK RD	104 W	2	4	15'-0"x15'-6" / 15'-0"x3'-0"	OC-11

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

AMBAR DIAZ-LOZANO, P.E.  
P.E. LICENSE NUMBER 76215  
VHB  
225 E. ROBINSON ST., SUITE 300  
LANDMARK CENTER TWO  
ORLANDO, FL 32801  
CERTIFICATE OF AUTHORIZATION NO. 3932

CENTRAL FLORIDA  
EXPRESSWAY AUTHORITY

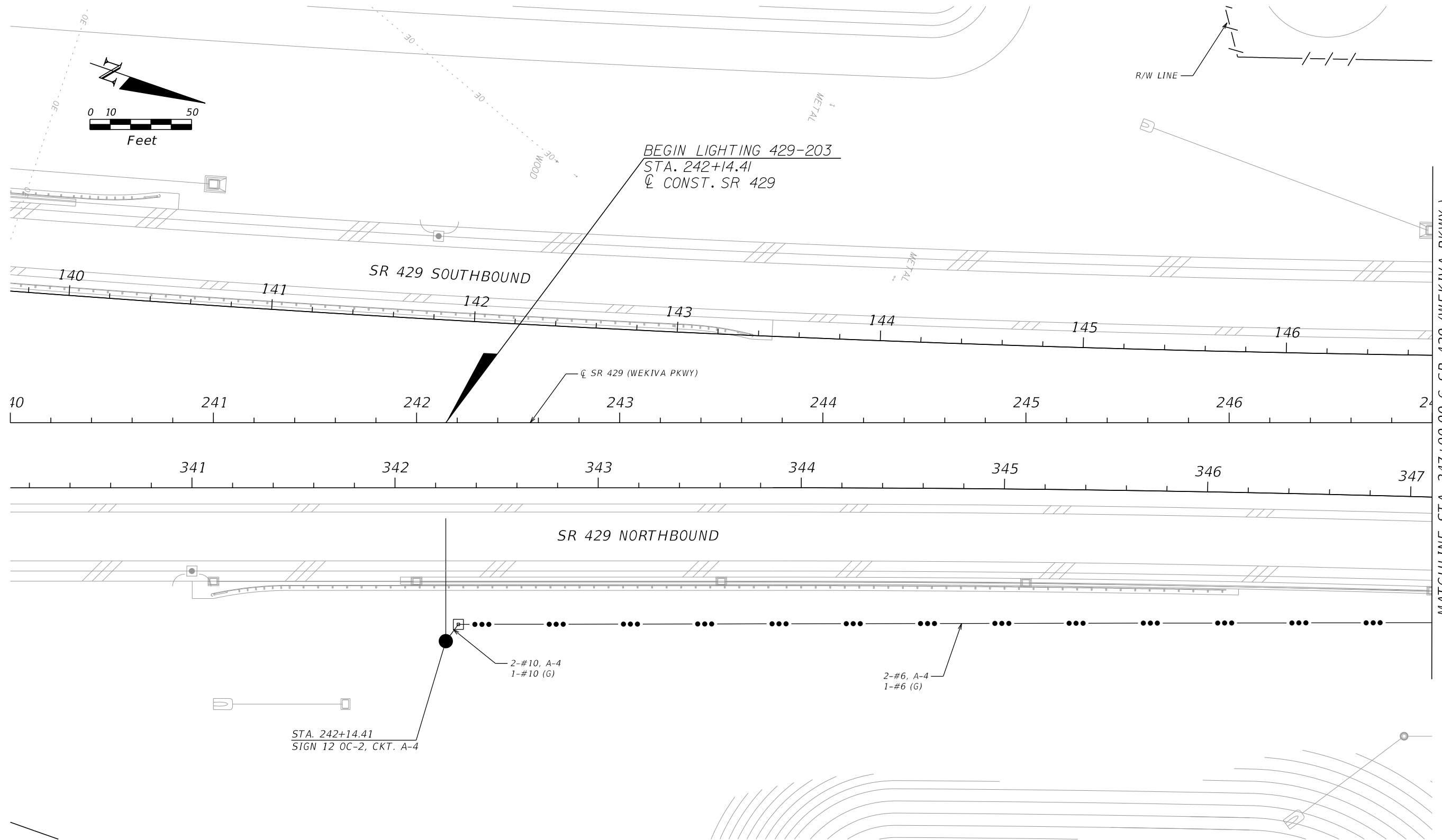
ROAD NO. PROJECT NO.  
SR 429 429-203




POLE DATA SHEET

SHEET NO.

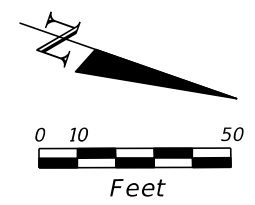
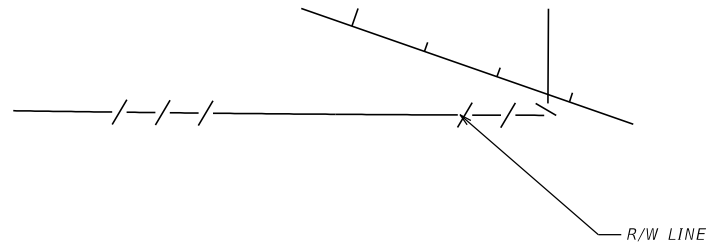
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REVISIONS						AMBAR DIAZ-LOZANO, P.E. P.E. LICENSE NUMBER 76215 VHB 225 E. ROBINSON ST., SUITE 300 LANDMARK CENTER TWO ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION NO. 3932	CENTRAL FLORIDA EXPRESSWAY AUTHORITY			LIGHTING PLAN SR 429		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	PROJECT NO.		SR 429	429-203	L-8

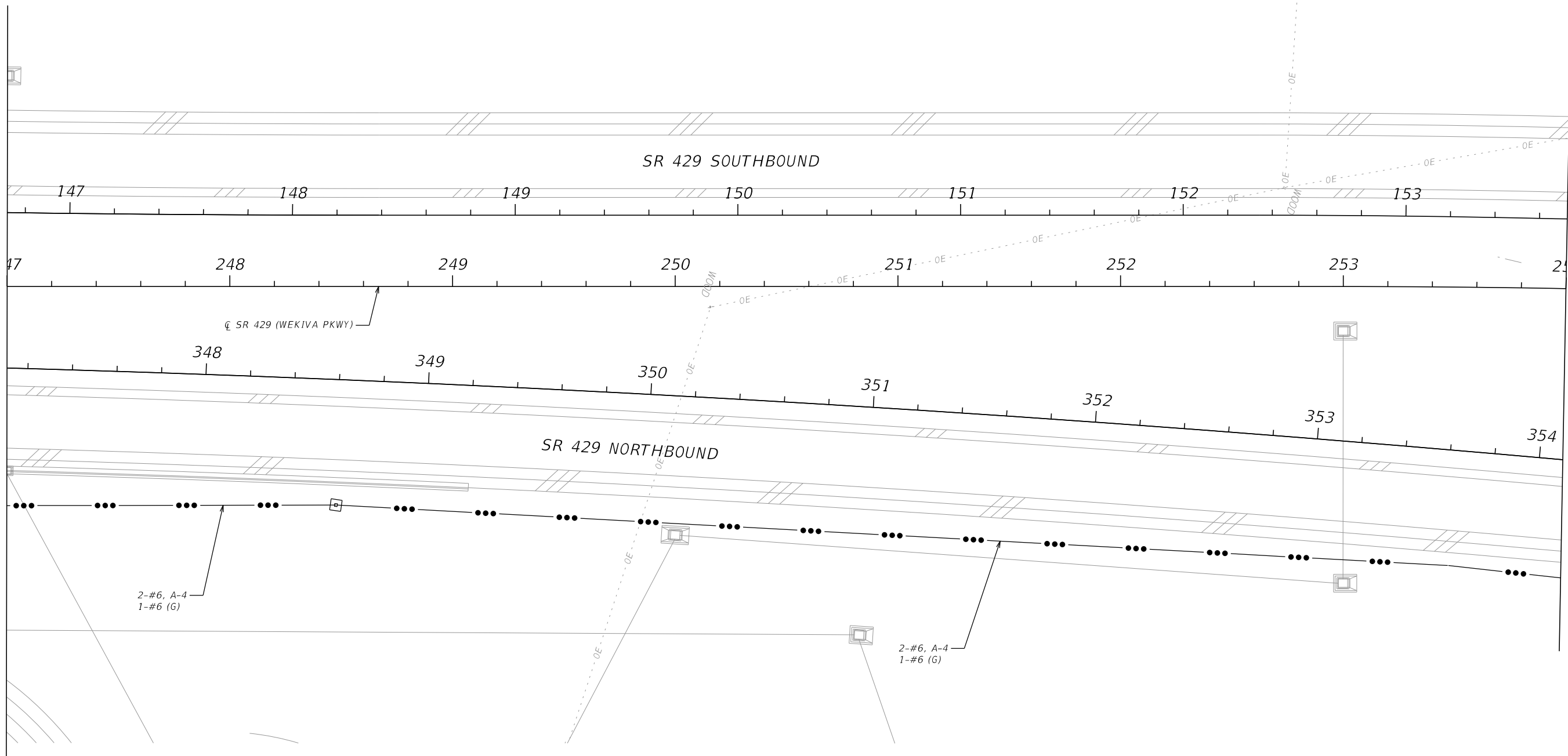
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MATCHLINE STA. 247+00.00 @ SR 429 (WEKIVA PKWY.)

MATCHLINE STA. 254+00.00 @ SR 429 (WEKIVA PKWY.)



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

AMBAR DIAZ-LOZANO, P.E.  
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ORLANDO, FL 32801  
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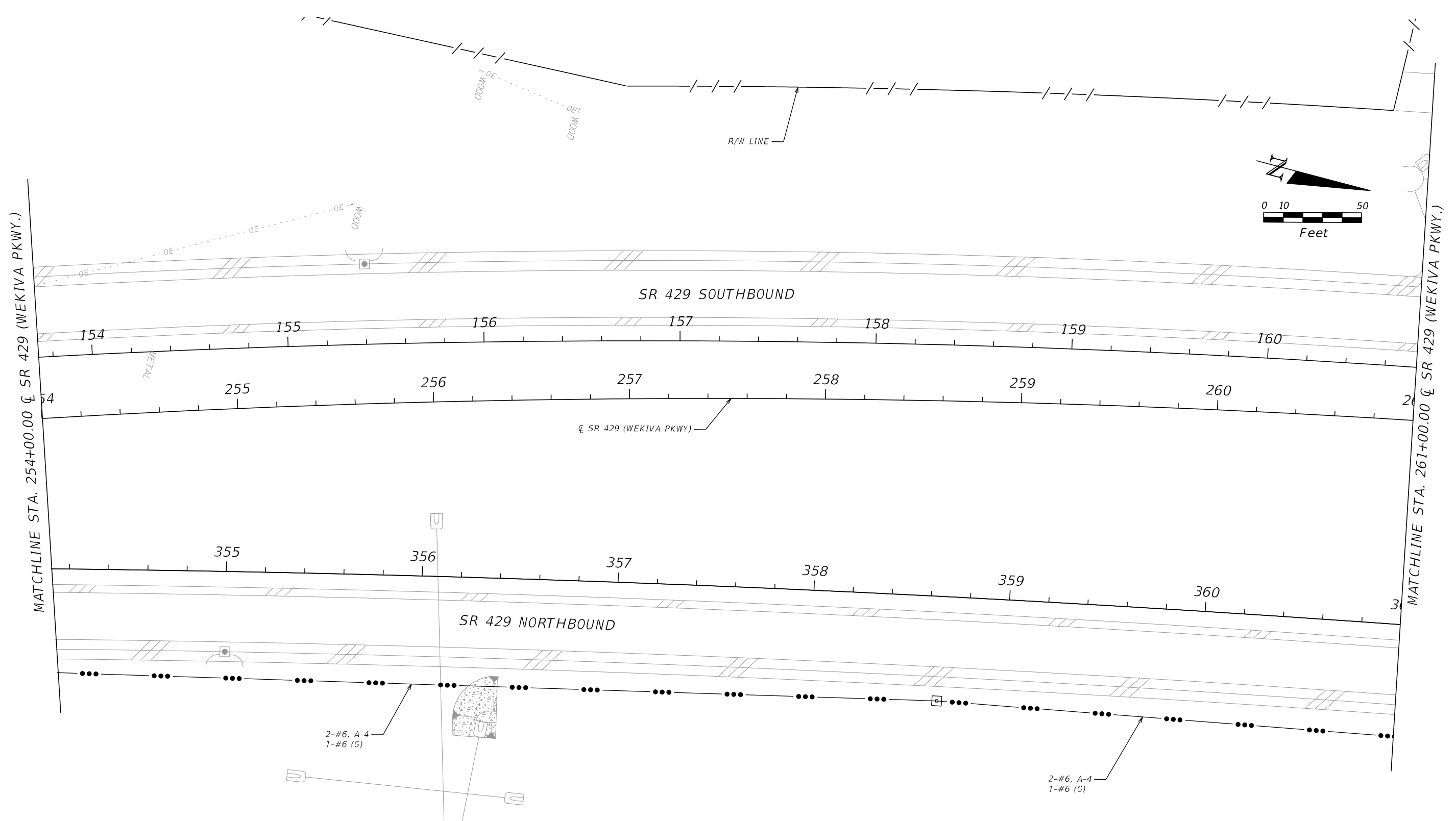
<b>CENTRAL FLORIDA EXPRESSWAY AUTHORITY</b>	
ROAD NO.	PROJECT NO.
SR 429	429-203



**LIGHTING PLAN**  
**SR 429**


SHEET NO.  
L-9

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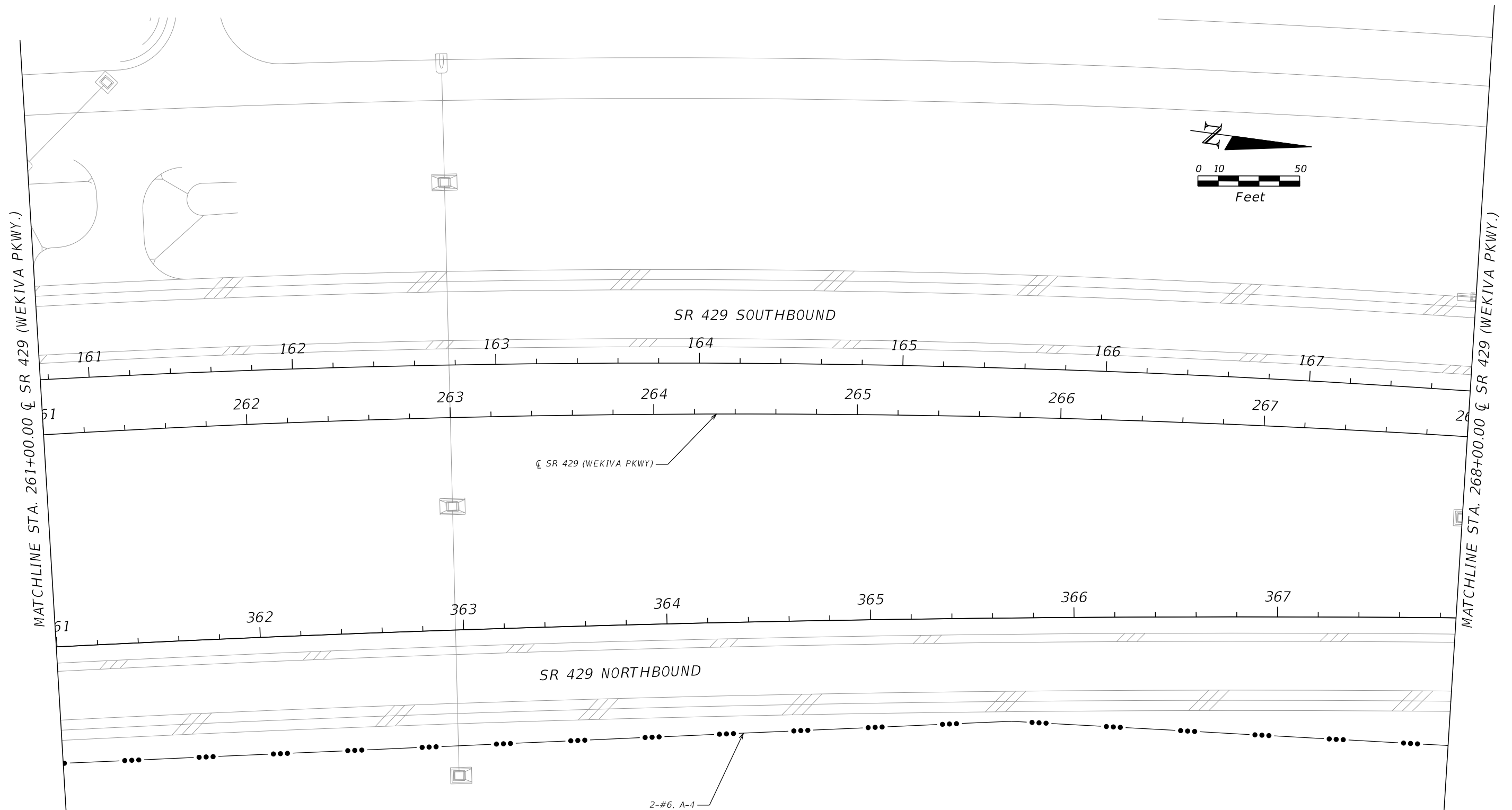


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1-#6 (G)

2-#6, A-4  
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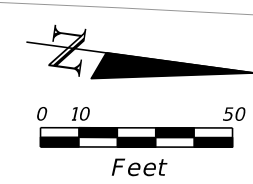
REVISIONS						AMBAR DIAZ-LOZANO, P.E. P.E. LICENSE NUMBER 76215 VHB 225 E. ROBINSON ST., SUITE 300 LANDMARK CENTER TWO ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION NO. 3932	<b>CENTRAL FLORIDA EXPRESSWAY AUTHORITY</b> 	<b>LIGHTING PLAN</b> <b>SR 429</b>		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					L-10
						SR 429	429-203			

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MATCHLINE STA. 261+00.00 (SR 429 WEKIVA PKWY.)

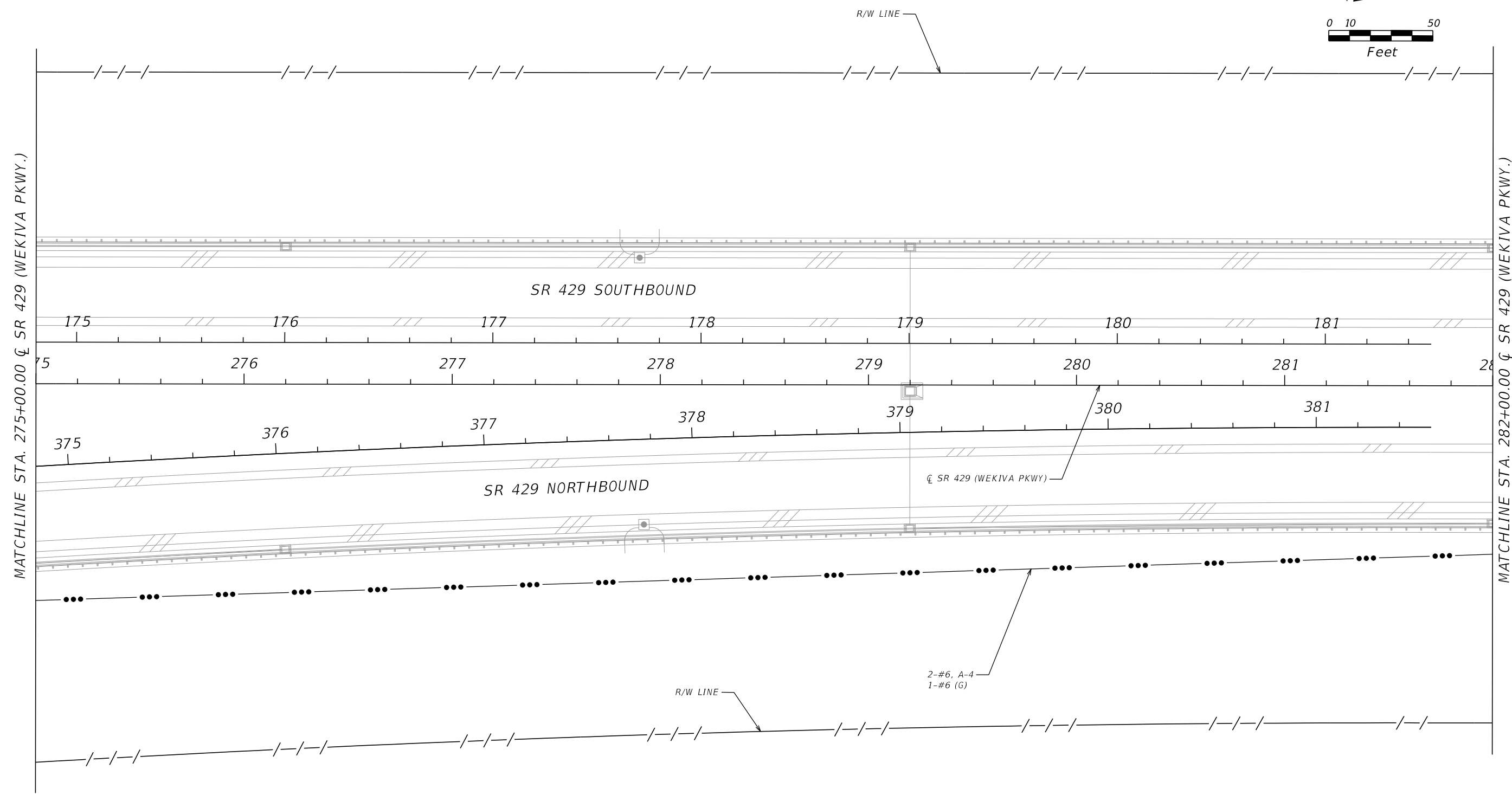
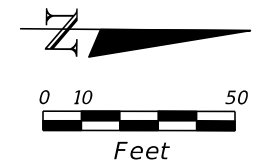
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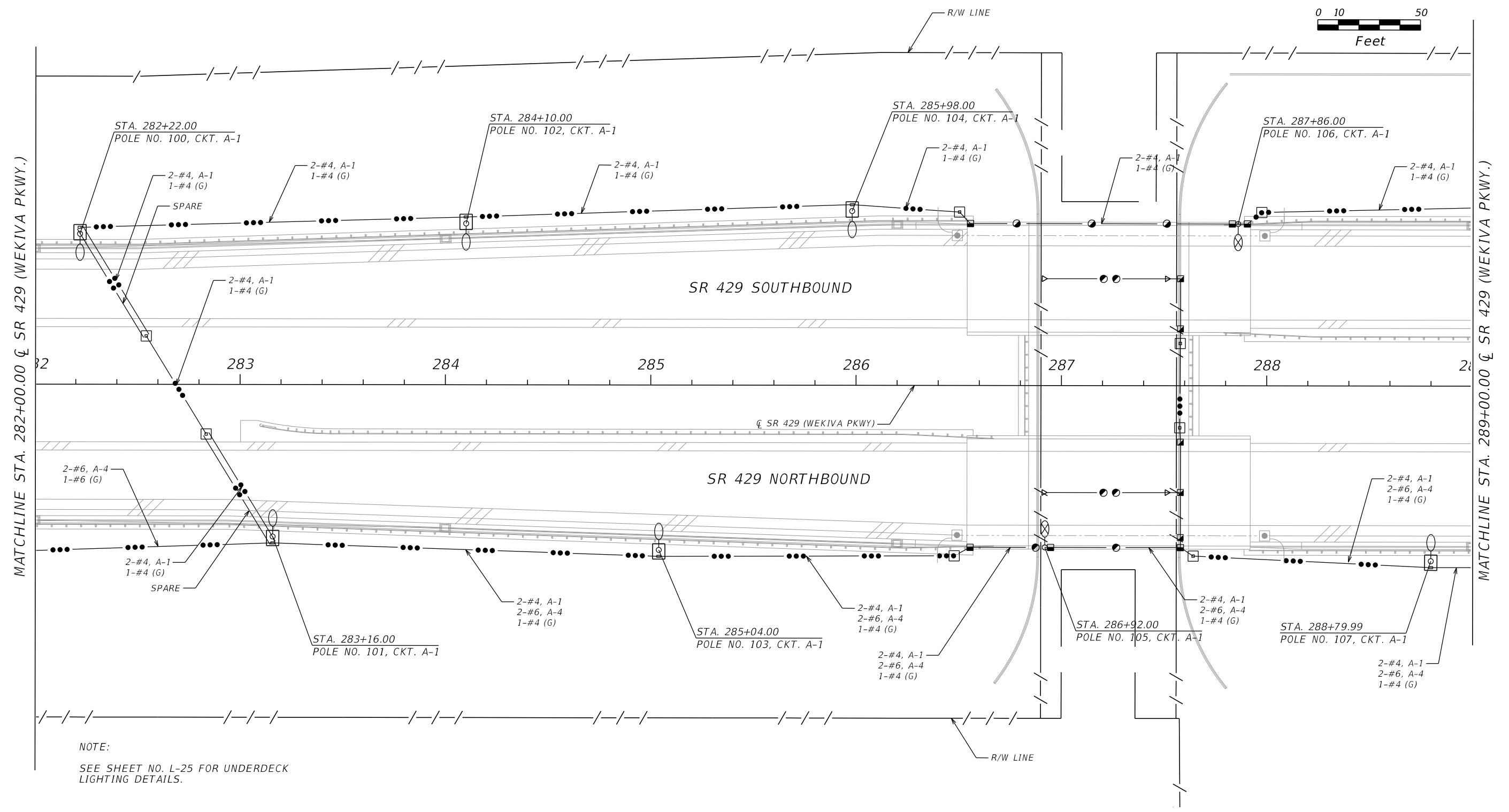
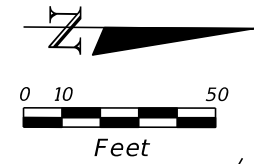
REVISIONS						AMBAR DIAZ-LOZANO, P.E. P.E. LICENSE NUMBER 76215 VHB 225 E. ROBINSON ST., SUITE 300 LANDMARK CENTER TWO ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION NO. 3932	CENTRAL FLORIDA EXPRESSWAY AUTHORITY			LIGHTING PLAN SR 429		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	PROJECT NO.		SR 429	429-203	L-11

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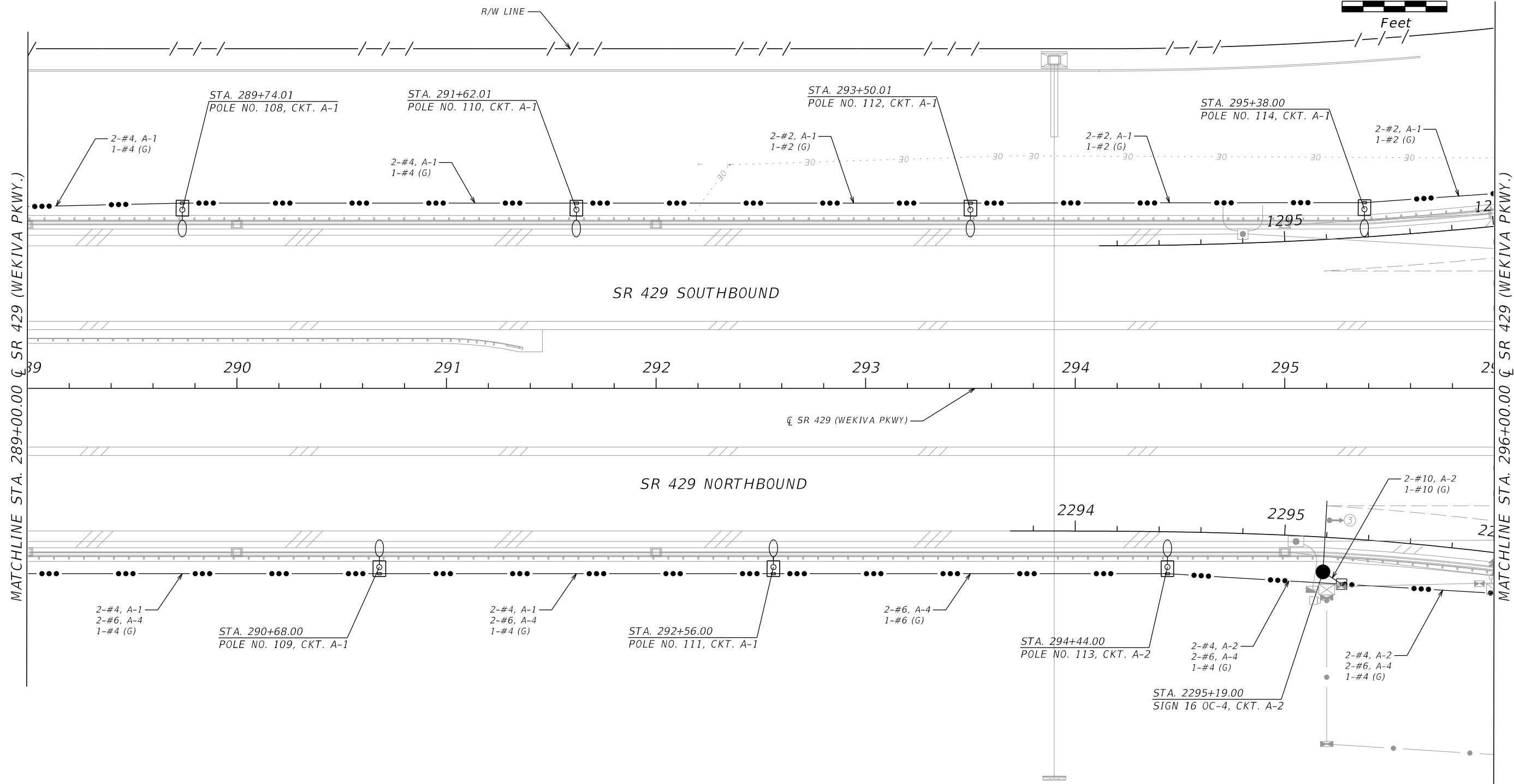
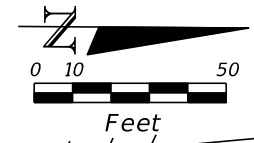
REVISIONS						AMBAR DIAZ-LOZANO, P.E. P.E. LICENSE NUMBER 76215 VHB 225 E. ROBINSON ST., SUITE 300 LANDMARK CENTER TWO ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION NO. 3932	<b>CENTRAL FLORIDA EXPRESSWAY AUTHORITY</b> 		<b>LIGHTING PLAN</b> <b>SR 429</b>		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	PROJECT NO.			L-13
						SR 429	429-203				



NOTE:  
SEE SHEET NO. L-25 FOR UNDERDECK  
LIGHTING DETAILS.


REVISIONS						AMBAR DIAZ-LOZANO, P.E. P.E. LICENSE NUMBER 76215 VHB 225 E. ROBINSON ST., SUITE 300 LANDMARK CENTER TWO ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION NO. 3932	<b>CENTRAL FLORIDA EXPRESSWAY AUTHORITY</b> 	<b>LIGHTING PLAN</b> <b>SR 429</b>	SHEET NO. L-14
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				
						ROAD NO. SR 429	PROJECT NO. 429-203		

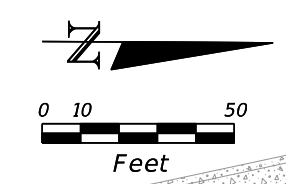
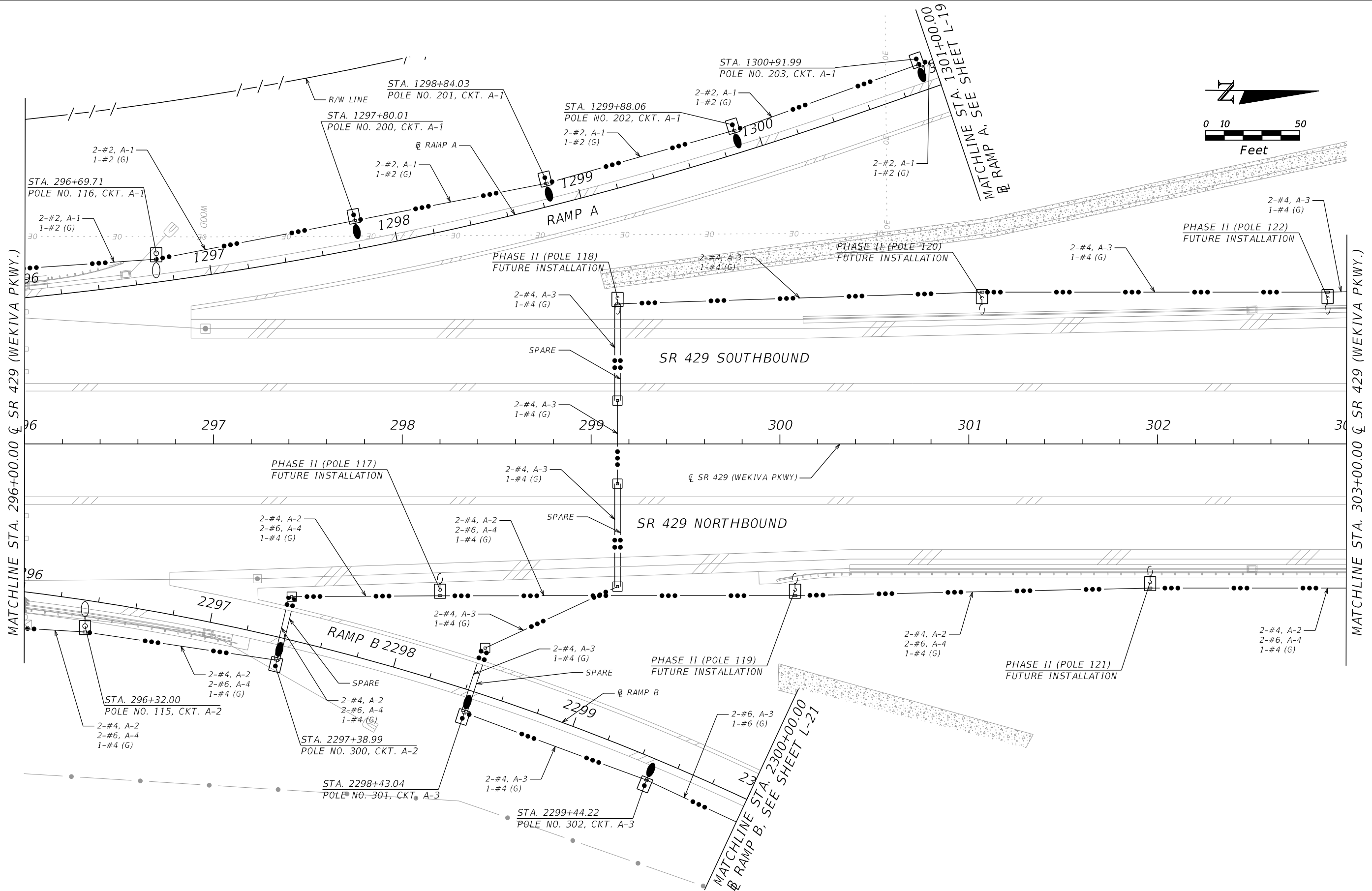
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MATCHLINE STA. 289+00.00 @ SR 429 (WEKIVA PKWY.)

MATCHLINE STA. 296+00.00 @ SR 429 (WEKIVA PKWY.)

REVISIONS						AMBAR DIAZ-LOZANO, P.E. P.E. LICENSE NUMBER 76215 VHB 225 E. ROBINSON ST., SUITE 300 LANDMARK CENTER TWO ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION NO. 3932	<b>CENTRAL FLORIDA EXPRESSWAY AUTHORITY</b> 		<b>LIGHTING PLAN</b> <b>SR 429</b>		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	PROJECT NO.			L-15
							SR 429	429-203			



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

AMBAR DIAZ-LOZANO, P.E.  
 P.E. LICENSE NUMBER 76215  
 VHB  
 225 E. ROBINSON ST., SUITE 300  
 LANDMARK CENTER TWO  
 ORLANDO, FL 32801  
 CERTIFICATE OF AUTHORIZATION NO. 3932

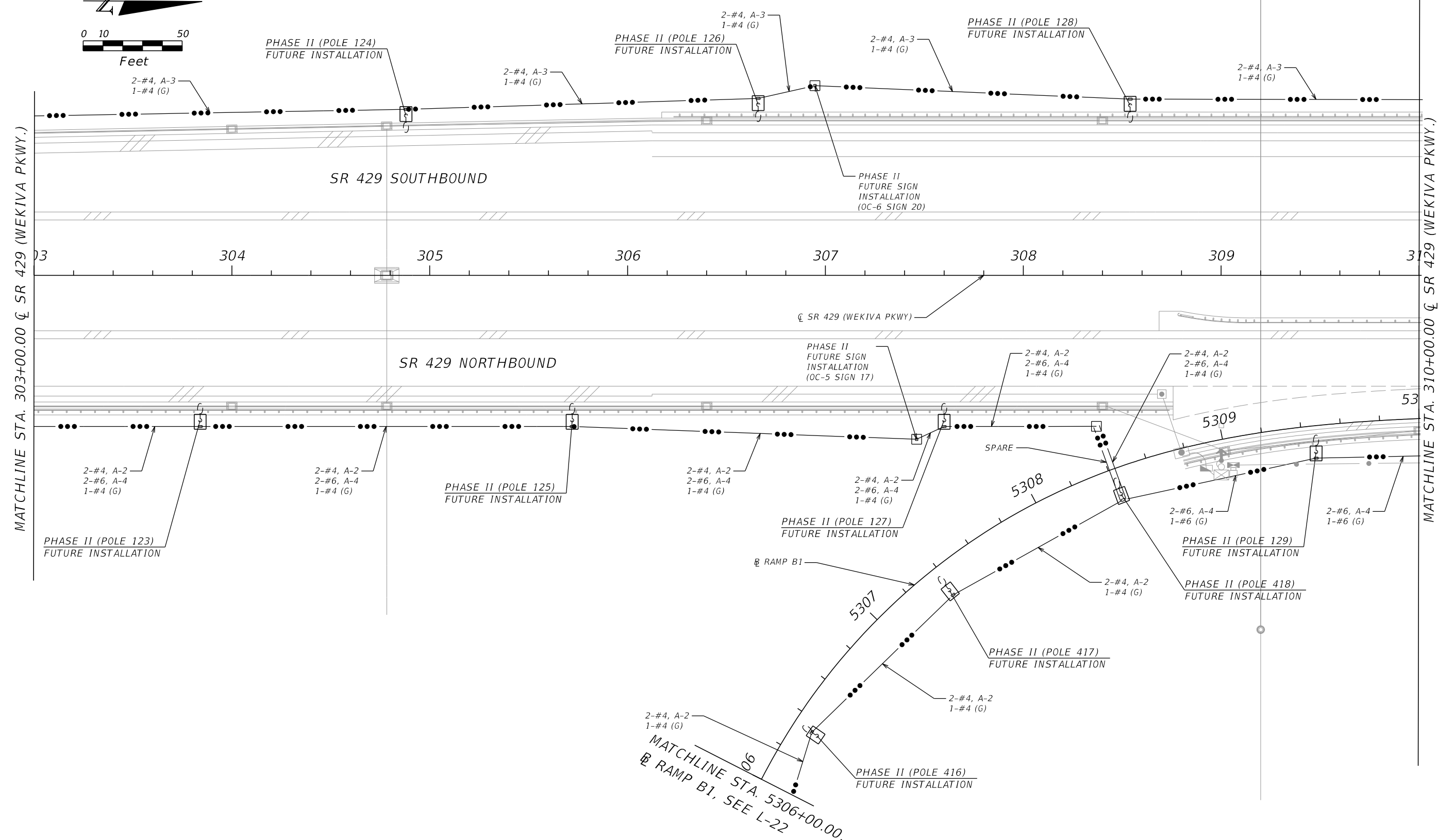
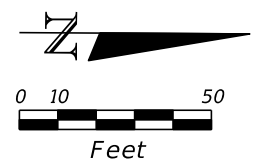
CENTRAL FLORIDA EXPRESSWAY AUTHORITY	
ROAD NO.	PROJECT NO.
SR 429	429-203



**LIGHTING PLAN**  
**SR 429**

SHEET NO.  
 L-16





REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

AMBAR DIAZ-LOZANO, P.E.  
 P.E. LICENSE NUMBER 76215  
 VHB  
 225 E. ROBINSON ST., SUITE 300  
 LANDMARK CENTER TWO  
 ORLANDO, FL 32801  
 CERTIFICATE OF AUTHORIZATION NO. 3932

<b>CENTRAL FLORIDA EXPRESSWAY AUTHORITY</b>	
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SR 429	429-203

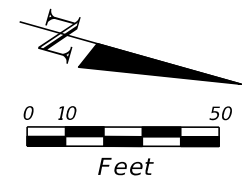


**LIGHTING PLAN**  
**SR 429**

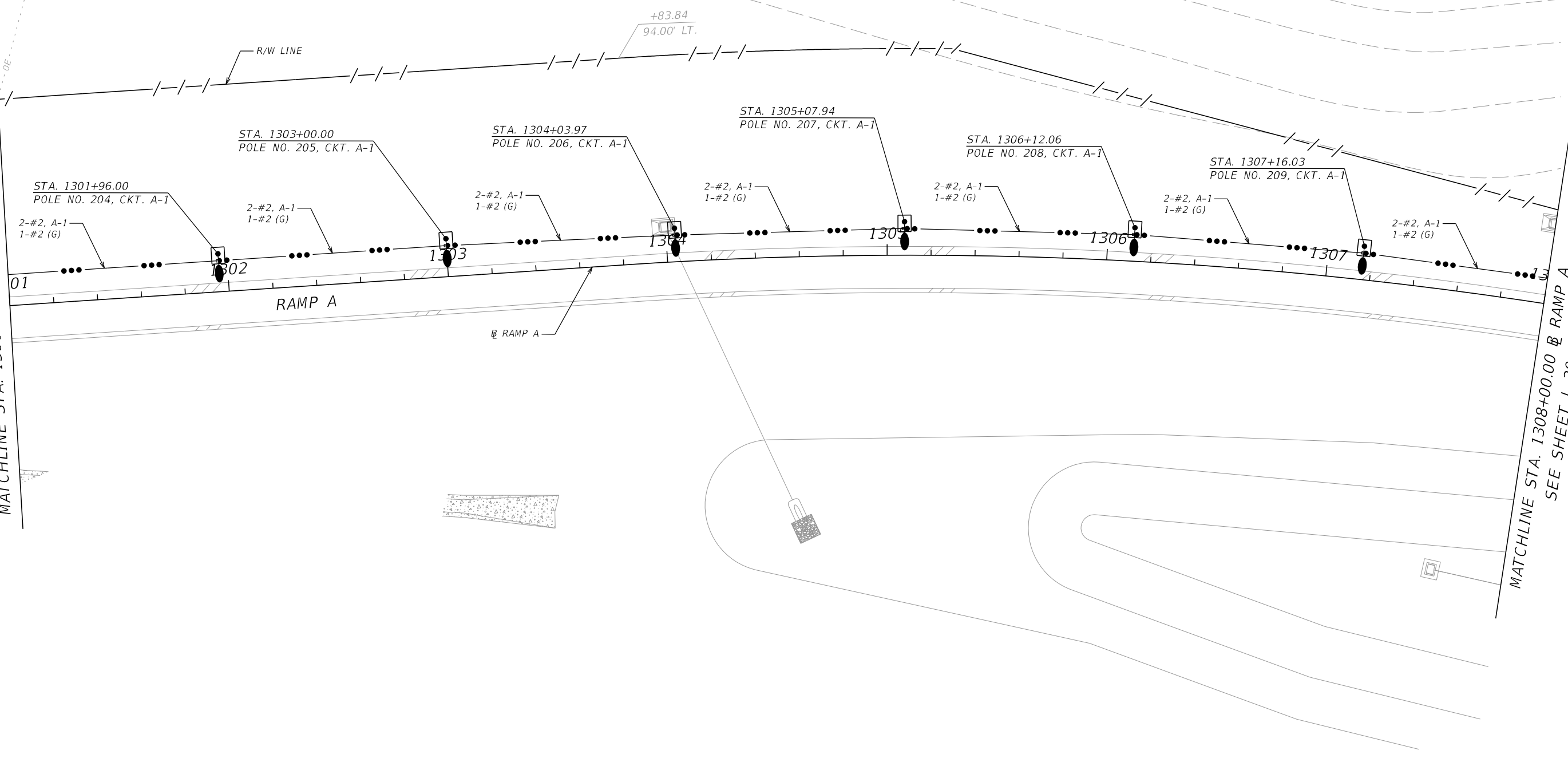
SHEET NO.  
 L-17

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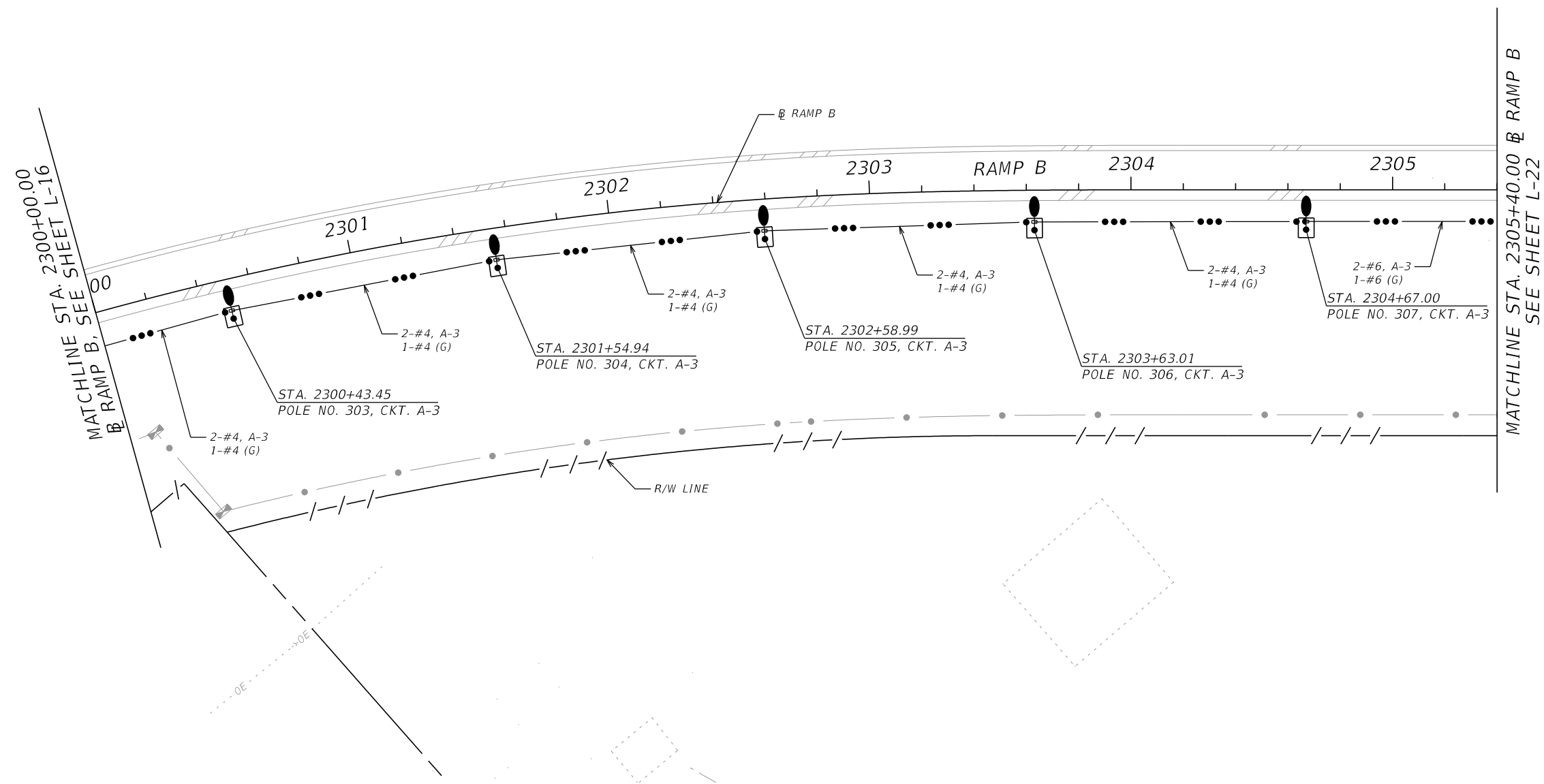
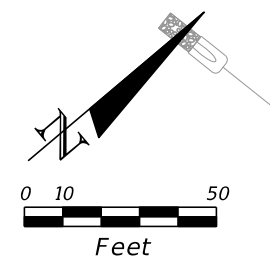
MATCHLINE STA. 1301+00.00 @ RAMP A, SEE SHEET L-16



MATCHLINE STA. 1308+00.00 @ RAMP A  
SEE SHEET L-20

REVISIONS						AMBAR DIAZ-LOZANO, P.E. P.E. LICENSE NUMBER 76215 VHB 225 E. ROBINSON ST., SUITE 300 LANDMARK CENTER TWO ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION NO. 3932	<b>CENTRAL FLORIDA EXPRESSWAY AUTHORITY</b> 		<b>LIGHTING PLAN</b> <b>RAMP A</b>		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	PROJECT NO.			L-19
						SR 429	429-203				





MATCHLINE STA. 2300+00.00 @ RAMP B, SEE SHEET L-16

MATCHLINE STA. 2305+40.00 @ RAMP B SEE SHEET L-22

REVISIONS

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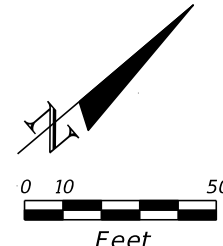
ROAD NO.	PROJECT NO.
SR 429	429-203



**LIGHTING PLAN**  
**RAMP B**

SHEET NO.  
 L-21

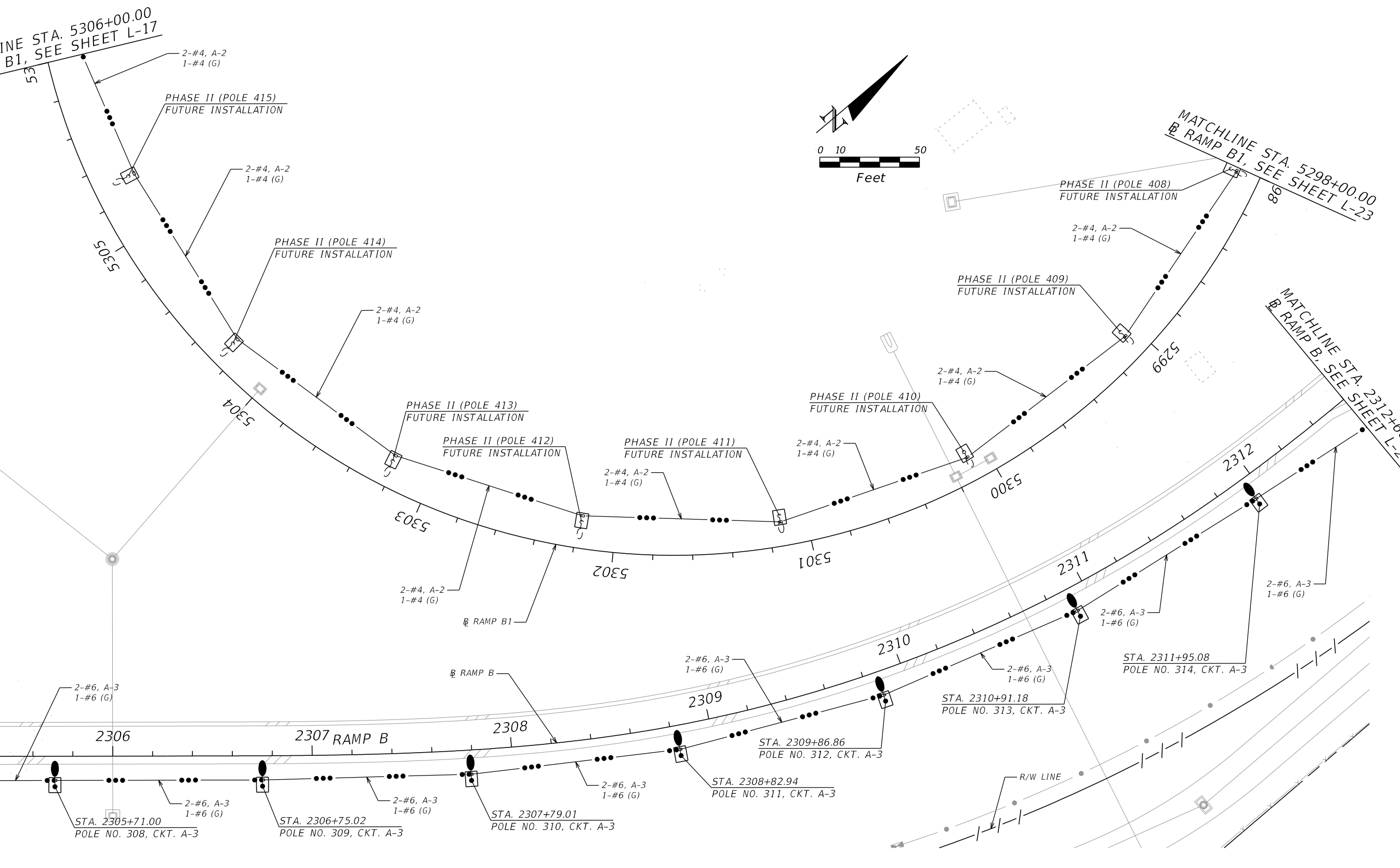
MATCHLINE STA. 5306+00.00  
RAMP B1, SEE SHEET L-17



MATCHLINE STA. 5298+00.00  
RAMP B1, SEE SHEET L-23

MATCHLINE STA. 2312+60.00  
RAMP B, SEE SHEET L-23

MATCHLINE STA. 2305+40.00  
RAMP B, SEE SHEET L-21



REVISIONS

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ROAD NO. SR 429  
PROJECT NO. 429-203



**LIGHTING PLAN  
RAMP B**

SHEET NO.  
L-22

\$USERS \$DATES \$TIMES \$FILES

MATCHLINE STA. 5292+00.00  
RAMP B1, SEE SHEET L-18

MATCHLINE STA. 2315+40.00  
RAMP B, SEE SHEET L-24

MATCHLINE STA. 5298+00.00  
RAMP B1, SEE SHEET L-22

MATCHLINE STA. 2312+60.00  
RAMP B, SEE SHEET L-22

92

5293

5294

5295

5296

5297

2315

2314

2313

2-#2, A-2  
1-#2 (G)

2-#2, A-2  
1-#2 (G)

2-#2, A-2  
1-#2 (G)

2-#2, A-2  
1-#2 (G)

2-#2, A-2  
1-#2 (G)

2-#2, A-2  
1-#2 (G)

2-#6, A-3  
1-#6 (G)

2-#6, A-3  
1-#6 (G)

2-#6, A-3  
1-#6 (G)

PHASE II (POLE 403)  
FUTURE INSTALLATION

PHASE II (POLE 404)  
FUTURE INSTALLATION

PHASE II (POLE 405)  
FUTURE INSTALLATION

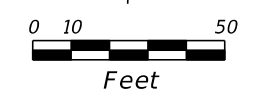
PHASE II (POLE 406)  
FUTURE INSTALLATION

PHASE II (POLE 407)  
FUTURE INSTALLATION

STA. 2314+93.66  
POLE NO. 317, CKT. A-3

STA. 2313+93.00  
POLE NO. 316, CKT. A-3

STA. 2312+88.88  
POLE NO. 315, CKT. A-3



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**CENTRAL FLORIDA  
EXPRESSWAY AUTHORITY**

ROAD NO.	PROJECT NO.
SR 429	429-203



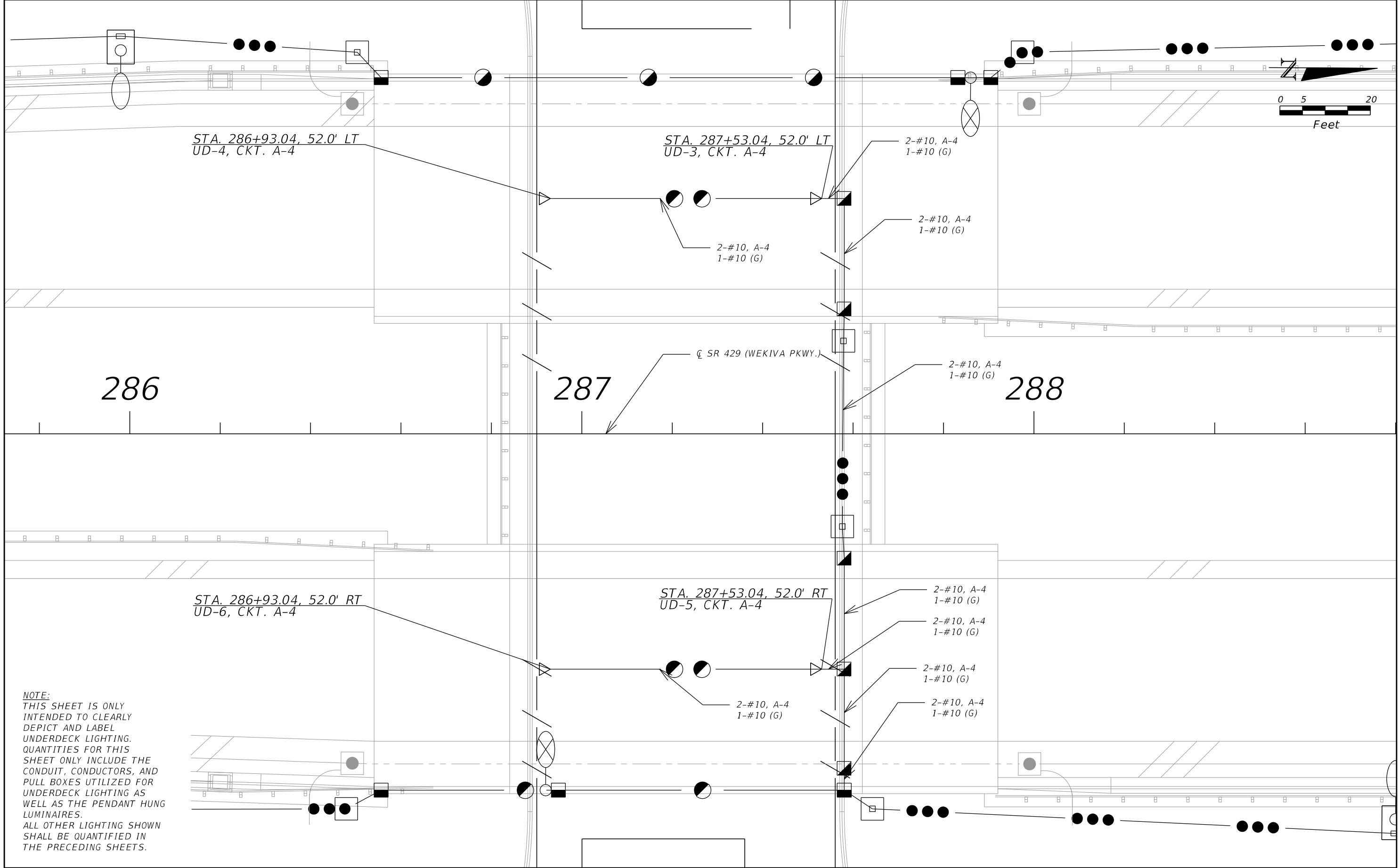
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RAMP B**

SHEET NO.  
L-23

\$USERS \$DATES \$TIMES \$FILES







NOTE:  
 THIS SHEET IS ONLY INTENDED TO CLEARLY DEPICT AND LABEL UNDERDECK LIGHTING. QUANTITIES FOR THIS SHEET ONLY INCLUDE THE CONDUIT, CONDUCTORS, AND PULL BOXES UTILIZED FOR UNDERDECK LIGHTING AS WELL AS THE PENDANT HUNG LUMINAIRES. ALL OTHER LIGHTING SHOWN SHALL BE QUANTIFIED IN THE PRECEDING SHEETS.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

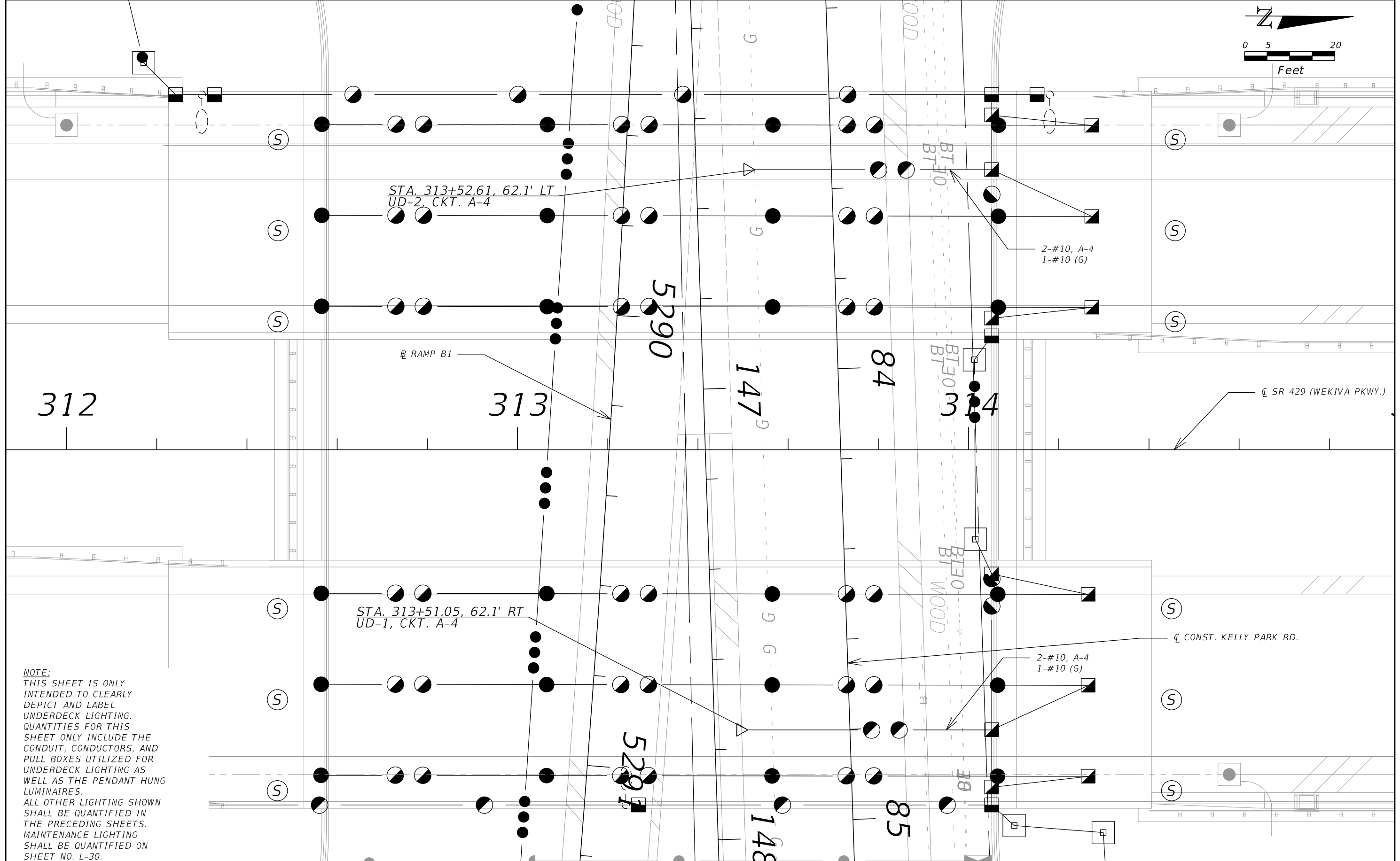
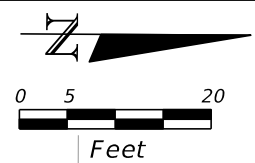
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<b>CENTRAL FLORIDA EXPRESSWAY AUTHORITY</b>	
ROAD NO.	PROJECT NO.
SR 429	429-203



**UNDERDECK LIGHTING PLAN**

SHEET NO.
L-25



**NOTE:**  
 THIS SHEET IS ONLY INTENDED TO CLEARLY DEPICT AND LABEL UNDERDECK LIGHTING. QUANTITIES FOR THIS SHEET ONLY INCLUDE THE CONDUIT, CONDUCTORS, AND PULL BOXES UTILIZED FOR UNDERDECK LIGHTING AS WELL AS THE PENDANT HUNG LUMINAIRES. ALL OTHER LIGHTING SHOWN SHALL BE QUANTIFIED IN THE PRECEDING SHEETS. MAINTENANCE LIGHTING SHALL BE QUANTIFIED ON SHEET NO. L-30.

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

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 ROAD NO. SR 429  
 PROJECT NO. 429-203



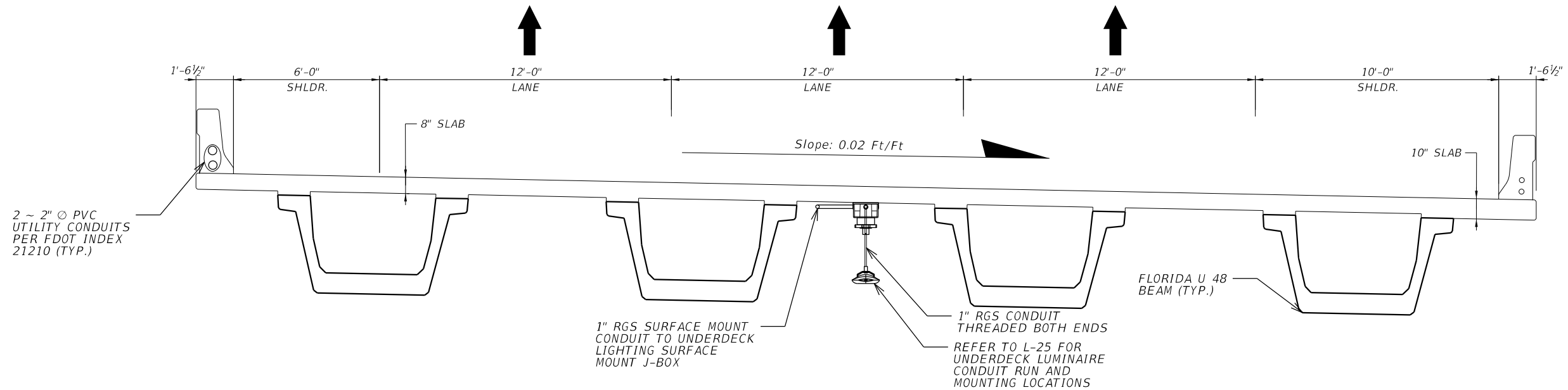
**UNDERDECK LIGHTING PLAN**

SHEET NO. L-26

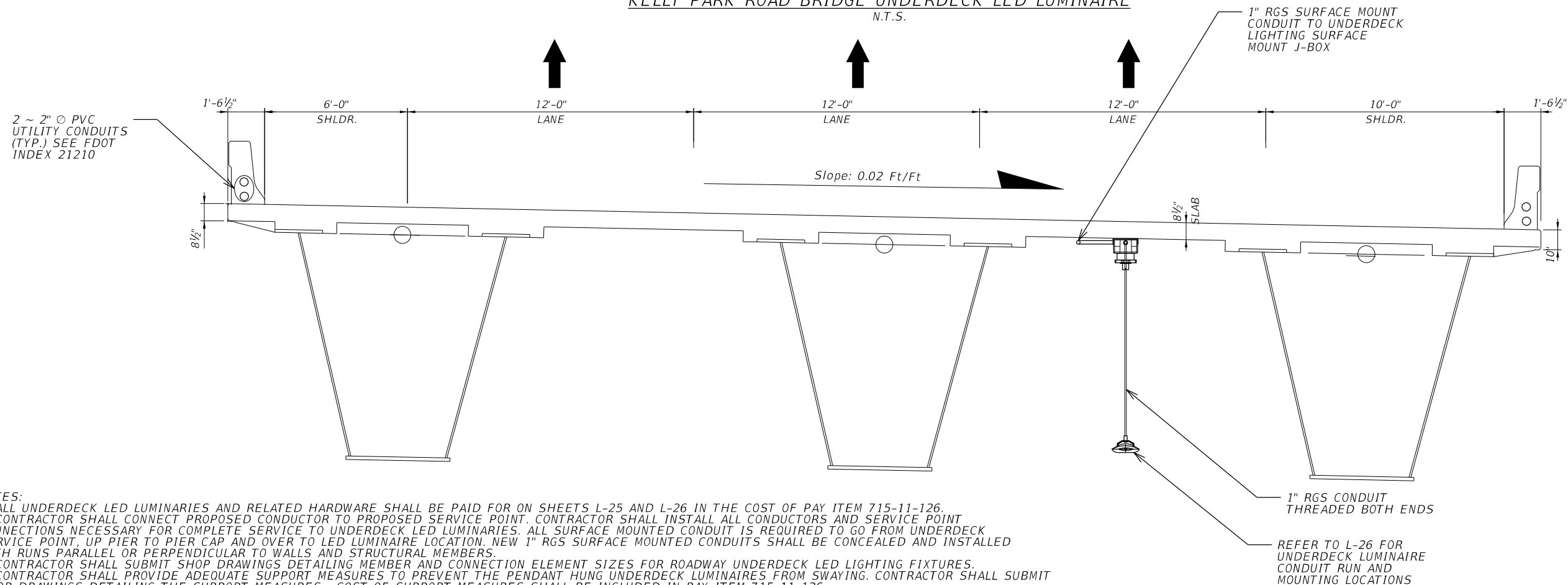
SUSERS SDATES STIMES SFILES

DETAIL A

PARCEL 197 BRIDGE UNDERDECK LED LUMINAIRE  
N.T.S.



KELLY PARK ROAD BRIDGE UNDERDECK LED LUMINAIRE  
N.T.S.



NOTES:

1. ALL UNDERDECK LED LUMINARIES AND RELATED HARDWARE SHALL BE PAID FOR ON SHEETS L-25 AND L-26 IN THE COST OF PAY ITEM 715-11-126.
2. CONTRACTOR SHALL CONNECT PROPOSED CONDUCTOR TO PROPOSED SERVICE POINT. CONTRACTOR SHALL INSTALL ALL CONDUCTORS AND SERVICE POINT CONNECTIONS NECESSARY FOR COMPLETE SERVICE TO UNDERDECK LED LUMINARIES. ALL SURFACE MOUNTED CONDUIT IS REQUIRED TO GO FROM UNDERDECK SERVICE POINT, UP PIER TO PIER CAP AND OVER TO LED LUMINAIRE LOCATION. NEW 1" RGS SURFACE MOUNTED CONDUITS SHALL BE CONCEALED AND INSTALLED WITH RUNS PARALLEL OR PERPENDICULAR TO WALLS AND STRUCTURAL MEMBERS.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING MEMBER AND CONNECTION ELEMENT SIZES FOR ROADWAY UNDERDECK LED LIGHTING FIXTURES.
4. CONTRACTOR SHALL PROVIDE ADEQUATE SUPPORT MEASURES TO PREVENT THE PENDANT HUNG UNDERDECK LUMINARIES FROM SWAYING. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS DETAILING THE SUPPORT MEASURES. COST OF SUPPORT MEASURES SHALL BE INCLUDED IN PAY ITEM 715-11-126.
5. BOTTOM OF UNDERDECK LED LUMINAIRE NOT TO BE HUNG BELOW BEAM, 16'-6" MINIMUM MOUNTING HEIGHT.

REVISIONS

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SR 429 429-203



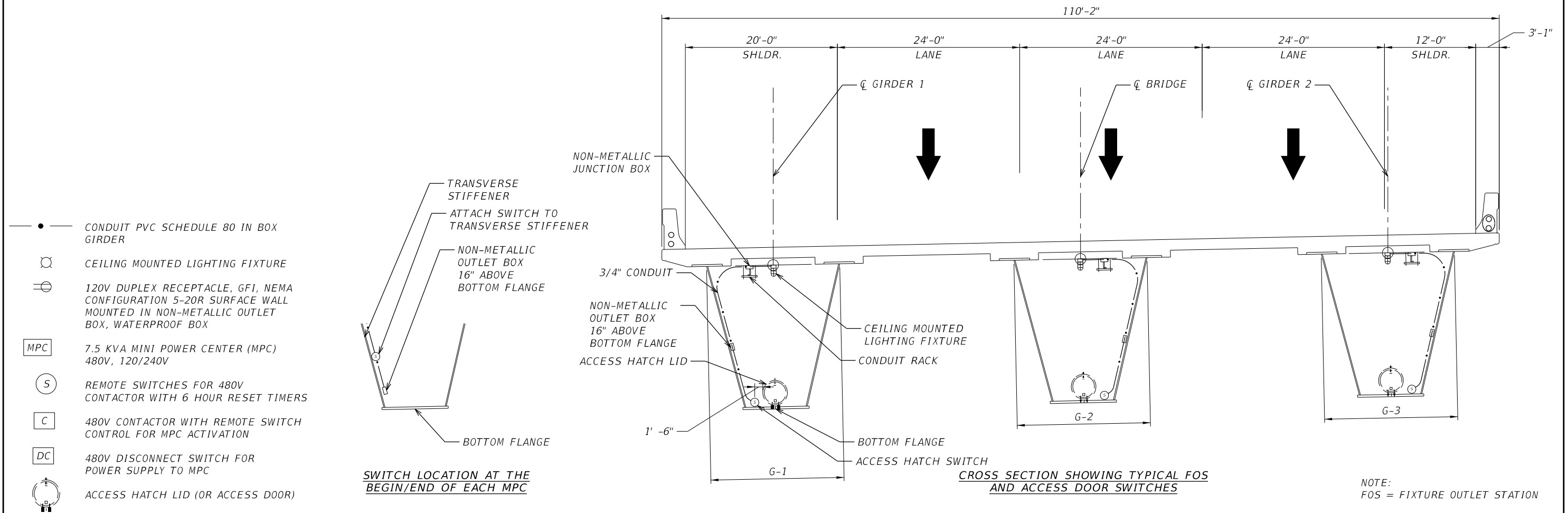
UNDERDECK LIGHTING DETAIL

SHEET NO.

L-27

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER OF RECORD DETAILING THE LAYOUT OF THE MAINTENANCE LIGHTING SYSTEM FOR THE ENTIRE STRUCTURE. THE SHOP DRAWINGS MUST INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING ITEMS:
  - A. CONDUIT LAYOUT AND INSTALLATION DETAILS THROUGH DIAPHRAGMS, AROUND POST-TENSIONING (PT) DUCTS, LATERAL BRACING AND CROSS FRAMES AS NECESSARY.
  - B. CONDUIT ACCESS THROUGH BOX GIRDER END DIAPHRAGMS WITH MINIMUM 1" CLEARANCE IN ALL DIRECTIONS.
  - C. CONDUIT EXPANSION FITTING DETAILS.
  - D. FASTENER DETAILS FOR THE INTERIOR ELECTRICAL SYSTEM.
  - E. SINGLE LINE DIAGRAM SHOWING MINI POWER CENTERS, SWITCHES, CONTACTORS, TIMERS, ETC.
  - F. MINI POWER CENTER DETAILS INCLUDING CIRCUIT BREAKER DETAILS.
  - G. MINI POWER CENTER MOUNTING DETAILS IF REQUIRED.
  - H. FEEDER SCHEDULE.
2. ENSURE INSTALLATION MEETS ALL REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (NEC) AND LOCAL ORDINANCES. INSTALL GROUNDING IN ACCORDANCE WITH NEC ARTICLE 250. MAINTAIN SEPARATION BETWEEN 480V AND 120V CONDUCTORS/ CONDUITS THROUGHOUT.
3. THE CONTRACTOR SHALL FURNISH ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
4. USE ONLY NEW, UNUSED AND UNDERWRITERS LABORATORIES (UL) LISTED EQUIPMENT AND MATERIALS FOR OUTDOOR USE.
5. FURNISH AND INSTALL POLYVINYL CHLORIDE (PVC) CONDUIT IN CONFORMANCE WITH UL SECTION 651, NEC SECTION 347 AND THE NATIONAL ELECTRIC MANUFACTURERS ASSOCIATES (NEMA) TC-2, UV-RESISTANT AND SCHEDULE 80. BEND CONDUITS AS NECESSARY TO CONNECT TO LOADS.
6. PROVIDE PVC SLEEVE 2" BIGGER IN DIAMETER THAN CONDUIT TO ACCOMMODATE CONSTRUCTION TOLERANCE.
7. INSTALL A UL LABELED EXPANSION FITTING FOR SPECIFIED PVC CONDUIT AT ALL STRUCTURE EXPANSION JOINTS. PROVIDE CERTIFICATION THAT THE EXPANSION FITTING MEETS THE FOLLOWING MINIMUM REQUIREMENTS: COMPATIBILITY WITH THE CONNECTED CONDUITS, WATERPROOF, UV PROTECTED AND ALLOWS LONGITUDINAL MOVEMENT EQUAL TO THAT OF THE EXPANSION JOINT.
8. USE ONLY ALLOY 316 STAINLESS STEEL SUPPORTING HARDWARE. PROVIDE MINIMUM 3/16" DIAMETER FASTENERS. FOR CONCRETE OR SIP FORM MOUNTING, PROVIDE ANCHOR BOLTS (EXPANSION, DROP-IN OR ADHESIVE) SUITABLE FOR DYNAMIC LOADING (DUE TO VIBRATION CAUSED BY TRAFFIC). INSTALL FASTENERS TO AVOID CONFLICTS WITH REINFORCING STEEL AND PT DUCTS. FOR STRUCTURAL STEEL MOUNTING, DO NOT ATTACH FASTENERS TO MAIN MEMBERS, I.E. WEBS AND FLANGES.

9. FURNISH POWER DISTRIBUTION AT 480V AC, 1 PHASE, WITH STEP DOWN TRANSFORMERS AT REGULAR INTERVALS. FURNISH 7.5 KVA MINI POWER CENTER WITH EIGHT 20 AMP BREAKERS AS THE STEP DOWN TRANSFORMER, FEEDING A MAXIMUM OF 20 LAMPS AND 20 RECEPTACLES. EACH MINI POWER CENTER WILL PROVIDE POWER TO NO MORE THAN 1000' OF BRIDGE, PREFERABLY 500' ON EACH SIDE OF THE MINI POWER CENTER. 480V TOP FEED, 120V BOTTOM FEED TO MAINTAIN SEPARATION.
10. FURNISH AND INSTALL LIGHTING CONTACTORS TO SWITCH THE 480V AC FEEDING THE MINI POWER CENTERS.
11. FURNISH AND INSTALL COPPER CONDUCTORS, TYPE XHHW. DO NOT USE ANY CONDUCTOR LARGER THAN #4 AWG IN A FIXTURE OUTLET STATION (FOS).
12. PROVIDE ENOUGH SLACK IN ALL INTERIOR CABLE TERMINATIONS TO ALLOW FOR MINOR SHIFTING OF THE STRUCTURE.
13. FURNISH AND INSTALL NATIONAL ELECTRIC MANUFACTURERS ASSOCIATION (NEMA) TYPE 4X (NON-METALLIC) SURFACE MOUNTED BOXES SIZED IN CONFORMANCE WITH THE NEC.
14. FURNISH AND INSTALL 120V DUPLEX RECEPTACLES (GFI, NEMA TYPE 5-20R), IN NON-METALLIC OUTLET BOXES AT 50' MAXIMUM ON CENTERS. PROVIDE EACH RECEPTACLE WITH A GASKETED WEATHER-PROTECTIVE OUTDOOR PLATE. MAXIMUM WIRE SIZE TO CONNECT TO RECEPTACLES IS #12 AWG.
15. FURNISH AND INSTALL SURFACE MOUNTED, FULLY ENCLOSED, INCANDESCENT LIGHT FIXTURES WITH GASKETED CLEAR GLOBES AND WIRE GUARDS AT 50' MAXIMUM ON CENTERS. PROVIDE 100 WATT, 130 VOLT, VIBRATION RESISTANT AND BRASS BASE INCANDESCENT LAMPS.
16. LOCATE SWITCHES AT EACH END OF EACH SPAN AND AT EVERY ACCESS DOOR.
17. PROVIDE SIX HOUR RESET TIMERS FOR EACH CIRCUIT TO TURN OFF THE LIGHTING SYSTEM AUTOMATICALLY.
18. THESE DRAWINGS ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUIT RUNS. COORDINATE THESE WITH THE OTHER TRADES TO AVOID CONFLICTS. COORDINATE ALL LIGHTING FIXTURES AND EQUIPMENT LOCATIONS WITH THE STRUCTURE PLANS.
19. INCLUDE THE COST OF THE BOX MAINTENANCE LIGHTING SYSTEM IN THE PAY ITEM FOR LIGHTING - INSIDE BOX GIRDER, 715-50. THIS ITEM INCLUDES PAYMENT FOR ALL ITEMS, INCLUDING THE ITEMS LISTED IN THE BOX GIRDER MAINTENANCE LIGHTING TABULATION OF QUANTITIES AND ANY INCIDENTALS, NECESSARY FOR A COMPLETE AND ACCEPTED INSTALLATION.



REVISIONS						AMBAR DIAZ-LOZANO, P.E. P.E. LICENSE NUMBER 76215 VHB 225 E. ROBINSON ST., SUITE 300 LANDMARK CENTER TWO ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION NO. 3932	CENTRAL FLORIDA EXPRESSWAY AUTHORITY		CFX	MAINTENANCE LIGHTING GENERAL NOTES AND DETAIL	SHEET NO. L-28
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	PROJECT NO.			
						SR 429	429-203				

*NO.	CKT.	STATION	LUM. WATTAGE	NOTES	FINAL
FOS #1	1 & 2	312+56.60	100		
FOS #2	1 & 2	313+06.60	100		
FOS #3	1 & 2	313+56.60	100		
FOS #4	1 & 2	314+06.60	100		

\* MINI POWER CENTER B1 FIXTURE OUTLET STATION (FOS)  
CIRCUIT 1 IS FOR LIGHTING FIXTURES AND CIRCUIT 2 IS FOR OUTLET RECEPTACLES.

*NO.	CKT.	STATION	LUM. WATTAGE	NOTES	FINAL
FOS #5	1 & 2	312+56.60	100		
FOS #6	1 & 2	313+06.60	100		
FOS #7	1 & 2	313+56.60	100		
FOS #8	1 & 2	314+06.60	100		

\* MINI POWER CENTER B2 FIXTURE OUTLET STATION (FOS)  
CIRCUIT 1 IS FOR LIGHTING FIXTURES AND CIRCUIT 2 IS FOR OUTLET RECEPTACLES.

*NO.	CKT.	STATION	LUM. WATTAGE	NOTES	FINAL
FOS #9	1 & 2	312+56.60	100		
FOS #10	1 & 2	313+06.60	100		
FOS #11	1 & 2	313+56.60	100		
FOS #12	1 & 2	314+06.60	100		

\* MINI POWER CENTER B3 FIXTURE OUTLET STATION (FOS)  
CIRCUIT 1 IS FOR LIGHTING FIXTURES AND CIRCUIT 2 IS FOR OUTLET RECEPTACLES.

*NO.	CKT.	STATION	LUM. WATTAGE	NOTES	FINAL
FOS #13	1 & 2	312+56.60	100		
FOS #14	1 & 2	313+06.60	100		
FOS #15	1 & 2	313+56.60	100		
FOS #16	1 & 2	314+06.60	100		

\* MINI POWER CENTER B4 FIXTURE OUTLET STATION (FOS)  
CIRCUIT 1 IS FOR LIGHTING FIXTURES AND CIRCUIT 2 IS FOR OUTLET RECEPTACLES.

*NO.	CKT.	STATION	LUM. WATTAGE	NOTES	FINAL
FOS #17	1 & 2	312+56.60	100		
FOS #18	1 & 2	313+06.60	100		
FOS #19	1 & 2	313+56.60	100		
FOS #20	1 & 2	314+06.60	100		

\* MINI POWER CENTER B5 FIXTURE OUTLET STATION (FOS)  
CIRCUIT 1 IS FOR LIGHTING FIXTURES AND CIRCUIT 2 IS FOR OUTLET RECEPTACLES.

*NO.	CKT.	STATION	LUM. WATTAGE	NOTES	FINAL
FOS #21	1 & 2	312+56.60	100		
FOS #22	1 & 2	313+06.60	100		
FOS #23	1 & 2	313+56.60	100		
FOS #24	1 & 2	314+06.60	100		

\* MINI POWER CENTER B6 FIXTURE OUTLET STATION (FOS)  
CIRCUIT 1 IS FOR LIGHTING FIXTURES AND CIRCUIT 2 IS FOR OUTLET RECEPTACLES.

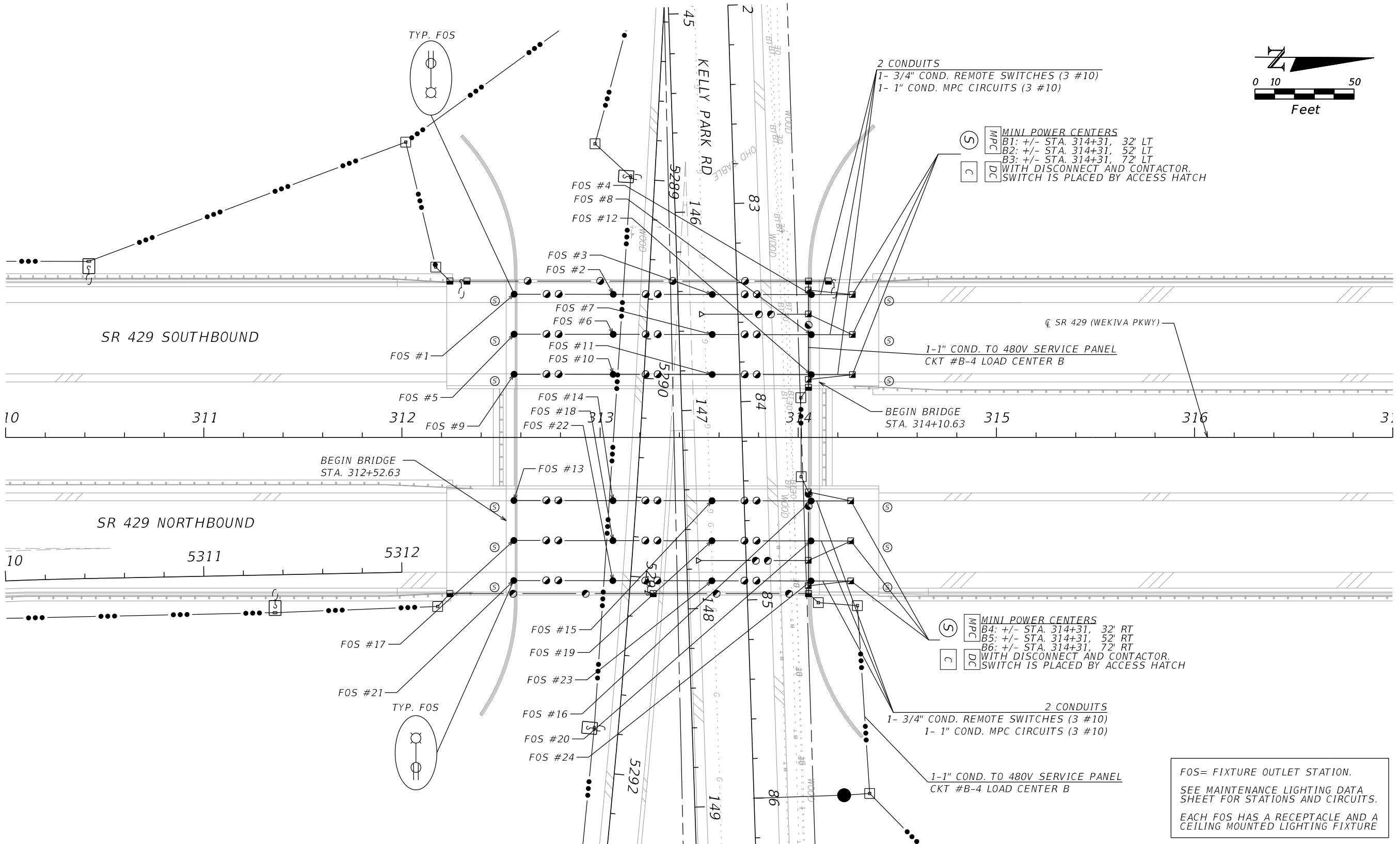
ITEM	UNIT	KELLY PARK RD. BRIDGE	
		L-30	TOTAL
LIGHTING CONDUCTORS (F&I, NO. 10)	LF	7,032	7,032
1" CONDUIT (F&I - IN BOX GIRDER)	LF	925	925
3/4" CONDUIT (F&I - IN BOX GIRDER)	LF	925	925
MINI POWER CENTERS **	EA	6	6
FIXTURE OUTLET STATIONS (FOS) ***	LF	24	24

\*\* INCLUDES THE COST AND INSTALLATION OF THE 7.5 KVA MINI POWER CENTER, 480 CONTACTOR AND REMOVE SWITCHES, 480 V DISCONNECT SWITCH, AND OTHER EQUIPMENT FOR A COMPLETE AND OPERATIONAL MAINTENANCE LIGHTING SYSTEM AS SPECIFIED IN THESE PLANS.

\*\*\* INCLUDES THE COST AND INSTALLATION OF THE CEILING MOUNTED LIGHT FIXTURE, WALL MOUNTED JUNCTION BOX, DUPLEX RECEPTACLE WITH OUTLET BOX, 3/4" PVC SCHEDULE 80 CONDUIT CONNECTING THESE 3 ITEMS, 3 #12 INSULATED CONDUCTORS FOR ELECTRICAL CONNECTION TO THE MPC CIRCUIT CONDUCTORS IN THE JUNCTION BOX, AND ANY OTHER EQUIPMENT OR MATERIALS NECESSARY TO MAKE A COMPLETE AND OPERATIONAL FIXTURE OUTLET STATION (FOS) AS SPECIFIED IN THESE PLANS.

PAY ITEM 715-50: THIS ITEM INCLUDES PAYMENT FOR ALL ITEMS LISTED IN TABULATION OF QUANTITIES ABOVE AND ANY INCIDENTALS NECESSARY FOR A COMPLETE AND ACCEPTED INSTALLATION.

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DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
						ROAD NO. SR 429	PROJECT NO. 429-203			



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

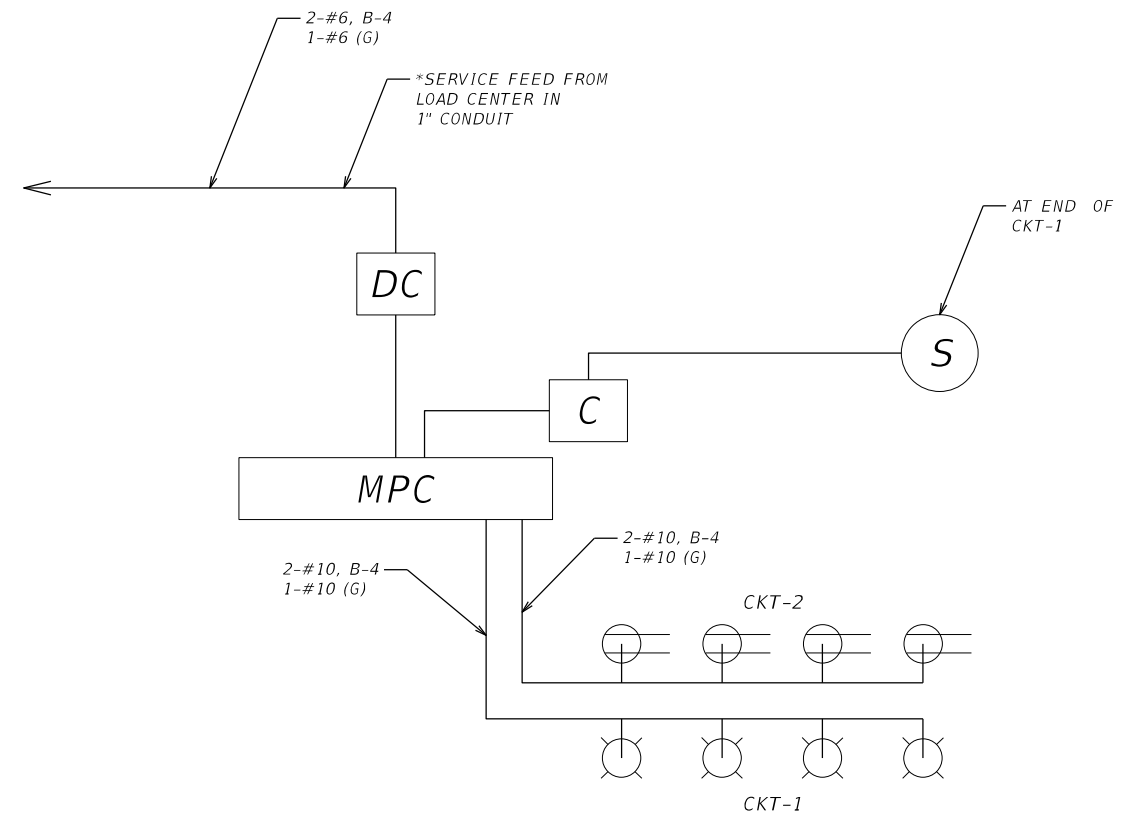
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SR 429	429-203









**MAINTENANCE LIGHTING PLAN**  
**KELLY PARK RD. BRIDGE**


SHEET NO.  
 L-30



ALL BOX GIRDERS: 2 #6 / 1 #6 GROUND FROM LOAD CENTER TO MINI POWER CENTERS.

1. MINI POWER CENTER FIXTURE OUTLET STATION (FOS) CIRCUIT 1 IS FOR LIGHTING FIXTURES. CIRCUIT 2 IS FOR OUTLET RECEPTACLE.
2. USE 1" CONDUIT FOR 480V SERVICE FEED TO MPC'S.
3. USE 3/4" CONDUIT AND #10 CONDUCTORS FOR REMOTE SWITCH CIRCUITS.
4. EXTEND CIRCUIT FOR SWITCHES TO EACH END OF THE BOX GIRDERS TO PROVIDE CONNECTION TO THE SWITCH AT THE ACCESS HATCH LID. NOTE THERE ARE ADDITIONAL ACCESS HATCH LIDS WITH SWITCHES AT INTERMEDIATE POINTS WITHIN THE BOX GIRDERS. THESE SWITCHES ARE IN ADDITION TO THOSE SHOWN ON THIS SHEET.
5. USE 1" CONDUIT AND #10 CONDUCTORS FOR ALL MPC CIRCUITS.
6. SEE INDEX 21240 FOR FURTHER INFORMATION.

-  CEILING MOUNTED LIGHTING FIXTURE
-  120V DUPLEX RECEPTACLE, GFI, NEMA CONFIGURATION 5-20R SURFACE WALL MOUNTED IN NON-METALLIC OUTLET BOX, WATERPROOF BOX
-  7.5 KVA MINI POWER CENTER (MPC) 480V, 120/240V
-  REMOTE SWITCHES FOR 480V CONTACTOR WITH 6 HOUR RESET TIMERS
-  480V CONTACTOR WITH REMOTE SWITCH CONTROL FOR MPC ACTIVATION
-  480V DISCONNECT SWITCH FOR POWER SUPPLY TO MPC

REVISIONS						AMBAR DIAZ-LOZANO, P.E. P.E. LICENSE NUMBER 76215 VHB 225 E. ROBINSON ST., SUITE 300 LANDMARK CENTER TWO ORLANDO, FL 32801 CERTIFICATE OF AUTHORIZATION NO. 3932	CENTRAL FLORIDA EXPRESSWAY AUTHORITY			MAINTENANCE LIGHTING ELECTRICAL SCHEMATICS		SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	PROJECT NO.		L-31		
							SR 429	429-203				