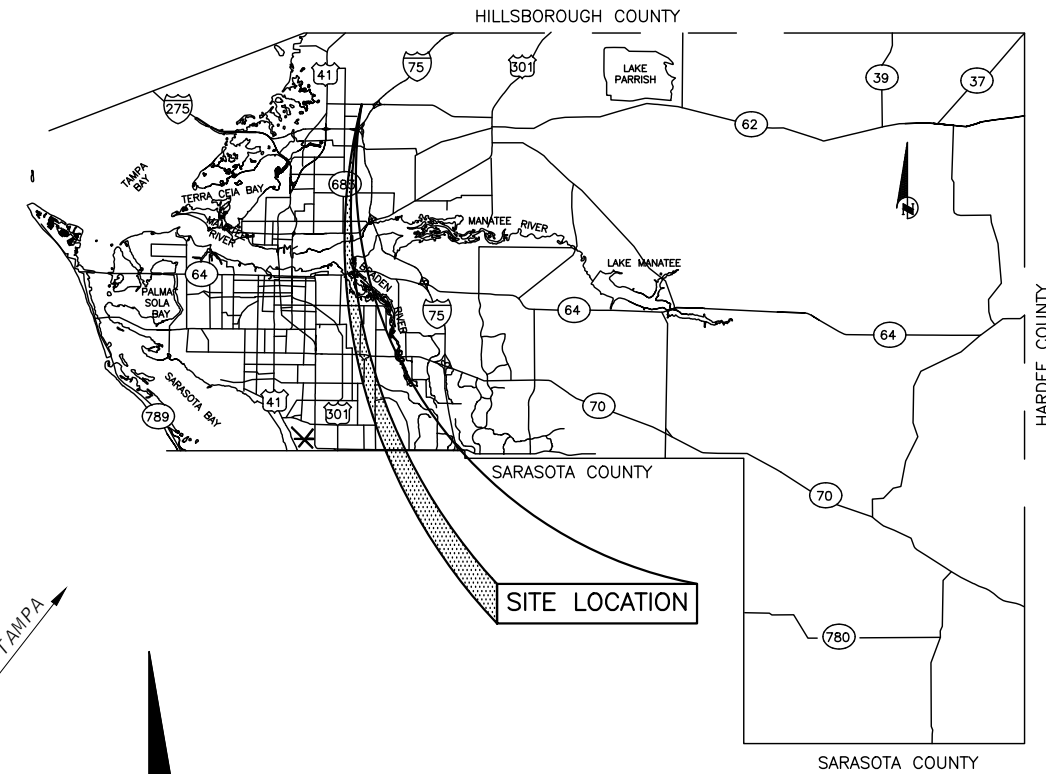




MANATEE COUNTY
PUBLIC WORKS DEPARTMENT
LIGHTING PLANS

MANATEE PROJECT ID 6092560
 MOCCASIN WALLOW ROAD
 FROM US 41 TO WEST OF I-75



"GOVERNING STANDARD PLANS:
 FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2020-21 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:
[HTTPS://WWW.FDOT.GOV/DESIGN/STANDARDPLANS](https://www.fdot.gov/design/standardplans)

APPLICABLE IRS: IR536-001-01, IR521-001-01

STANDARD PLANS FOR BRIDGE CONSTRUCTION ARE INCLUDED IN THE
 STRUCTURES PLANS COMPONENT.

GOVERNING STANDARD SPECIFICATIONS:
 FLORIDA DEPARTMENT OF TRANSPORTATION, JULY 2021 STANDARD
 SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWING
 WEBSITE:
[HTTPS://WWW.FDOT.GOV/PROGRAMMANAGEMENT/IMPLEMENTED/SPECSBOOKS](https://www.fdot.gov/programmanagement/implemented/specsbooks)"

OTHER RELATED STANDARDS AND SPECIFICATIONS

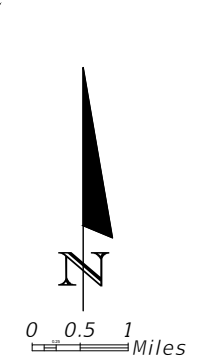
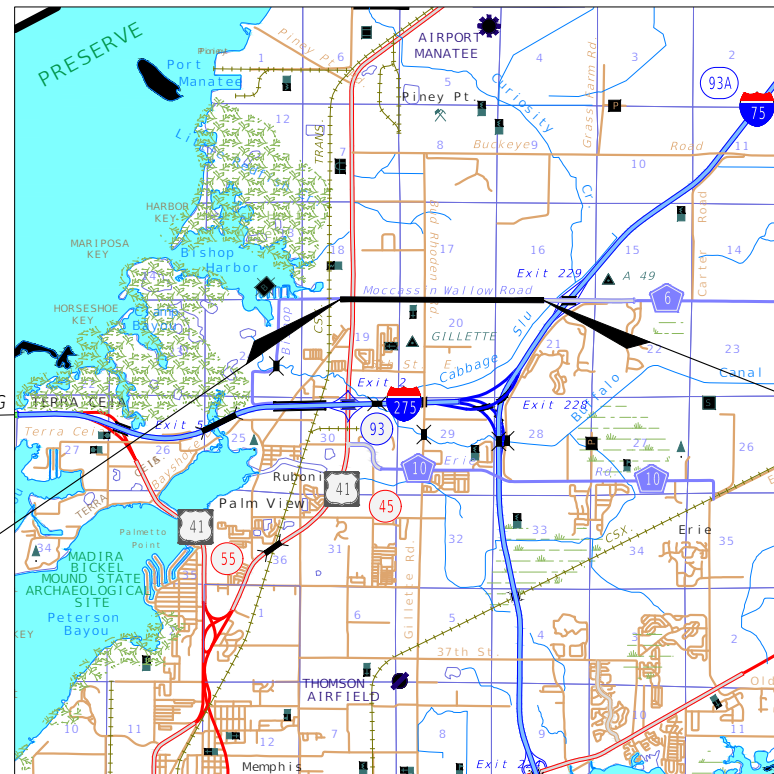
- A. MANATEE COUNTY HIGHWAY & TRAFFIC STANDARDS MANUAL AND STORMWATER MANAGEMENT DESIGN MANUAL (JUNE 2015).
- B. MANATEE COUNTY UTILITIES STANDARDS MANUAL (JUNE 2020).

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS
 MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS
 MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

UTILITY WARNING NOTE

ABOVE GROUND AND / OR UNDERGROUND UTILITIES MAY BE IN THE AREA OF THIS
 PROJECT - PROCEED WITH CAUTION - THE CONTRACTOR SHALL CALL SUNSHINE
 STATE "ONE CALL" AT 1-800-432-4770 AND THE UTILITY OWNERS IN ADVANCE OF
 BEGINNING WORK, IN ACCORDANCE WITH CHAPTER 556, FLORIDA STATUTES.

48 HOURS BEFORE DIGGING
 "CALL SUNSHINE"
 1-800-432-4770



INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3 THRU L- 5	TABULATION OF QUANTITIES
L-6	GENERAL NOTES
L-7	PAY ITEM FOOTNOTES
L-8	LIGHTING DATA TABLE AND LEGEND
L-9	LIGHTING DATA TABLE
L-10 THRU L-27	LIGHTING PLAN
L-28 THRU L-29	LOAD CENTER PANEL SCHEDULE
L-30 THRU L-31	LIGHT POLE SPECIAL FOUNDATION
L-32 THRU L-33	UTILITY CONFLICT LIGHT POLE DETAILS

PLANS PREPARED BY:

LIGHTING PLANS
 ENGINEER OF RECORD:

DAVID J. ALLEN, PE
 P.E. NO.:58540

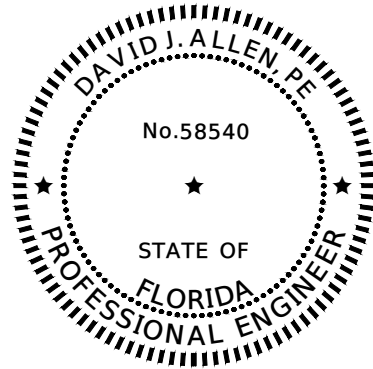
MANATEE COUNTY PROJECT MANAGER:
 DANIEL GARNER, PE

SUMMARY OF REVISIONS

DATE	DESCRIPTION

SHEET NO.
 L-1

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



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

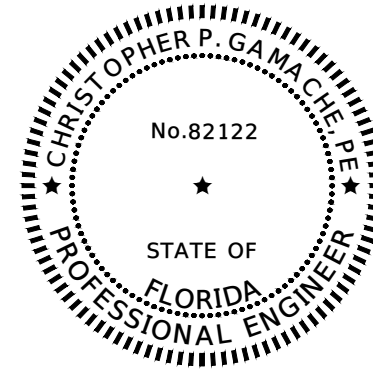
PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED AND
THE SIGNATURE MUST BE VERIFIED ON ANY
ELECTRONIC COPIES.

DAVID J. ALLEN, PE
CARDNO
3905 CRESCENT PARK DRIVE
RIVERVIEW, FL 33578
CERTIFICATE OF AUTHORIZATION 29915
PHONE NUMBER: (813) 664-4500

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING
SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

LIGHTING PLAN INDEX

SHEET NO.	DESCRIPTION
L-1	KEY SHEET
L-2	SIGNATURE SHEET
L-3 THRU L-5	TABULATION OF QUANTITIES
L-6	GENERAL NOTES
L-7	PAY ITEM FOOTNOTES
L-8	LIGHTING DATA TABLE AND LEGEND
L-9	LIGHTING DATA TABLE
L-10 THRU L-27	LIGHTING PLAN
L-28 THRU L-29	LOAD CENTER PANEL SCHEDULE
L-32	UTILITY CONFLICT LIGHT POLE DETAILS



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED AND
THE SIGNATURE MUST BE VERIFIED ON ANY
ELECTRONIC COPIES.

CHRISTOPHER P. GAMACHE, PE
CARDNO
380 PARK PLACE BLVD SUITE 300
CLEARWATER, FL 33579
CERTIFICATE OF AUTHORIZATION 29915
PHONE NUMBER: (727) 531-3505

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING
SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

LIGHTING PLAN INDEX

SHEET NO.	DESCRIPTION
L-2	SIGNATURE SHEET
L-30 THRU 31	LIGHT POLE SPECIAL FOUNDATION
L-33	UTILITY CONFLICT LIGHT POLE DETAILS

REVISIONS				DAVID J. ALLEN, PE P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578	MANATEE COUNTY		<i>SIGNATURE SHEET</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		L-2
					MOCCASIN WALLOW RD	6092560		

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			L-10		L-11		L-12		L-13		L-14		L-15		L-16		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									45						45			
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	780		1170		1165		1170		1260		1165		1165		7875			
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	6		6		6		6		9		7		6		46			
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS									1						1			
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF									60						60			
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE (12')	EA									1						1			
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF	2628		3894		3879		3894		4735		3879		3879		26788			
715-4-13	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 40' MOUNTING HEIGHT	EA																		
715-4-32	LIGHT POLE COMPLETE, F&I, UTILITY CONFLICT POLE, INDEX 17515/715-002 FOUNDATION, 35' MOUNTING HEIGHT	EA	4		5		6		6		6		6		4		37			
715-4-42	LIGHT POLE COMPLETE, F&I, UTILITY CONFLICT POLE, SPECIAL FOUNDATION, 35' MOUNTING HEIGHT	EA	1		1								1		2		5			
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA									1						1			
715-11-211	LUMINAIRE, F&I- REPLACE EXISTING LUMINAIRE ON EXISTING POLE/ARM, ROADWAY, COBRA HEAD	EA	4														4			
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA	5		6		6		6		6		7		6		42			

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

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		TABULATION OF QUANTITIES (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		L-3
---	---				MOCCASIN WALLOW RD	6092560		

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			L-17		L-18		L-19		L-20		L-21		L-22		L-23		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	110													110				
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	1180		1165		775		1150		1165		1500		1165	8100				
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	10		5		6		6		6		9		7	49				
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF																		
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE (12')	EA																		
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF	4398		3831		2613		3786		3879		5028		3879	27414				
715-4-13	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 40' MOUNTING HEIGHT	EA																		
715-4-32	LIGHT POLE COMPLETE, F&I, UTILITY CONFLICT POLE, INDEX 17515/715-002 FOUNDATION, 35' MOUNTING HEIGHT	EA	9		5		6		5		6		8		7	46				
715-4-42	LIGHT POLE COMPLETE, F&I, UTILITY CONFLICT POLE, SPECIAL FOUNDATION, 35' MOUNTING HEIGHT	EA	1						1				1			3				
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA																		
715-11-211	LUMINAIRE, F&I- REPLACE EXISTING LUMINAIRE ON EXISTING POLE/ARM, ROADWAY, COBRA HEAD	EA																		
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA	10		5		6		6		6		9		7	49				

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

<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>DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915</p>		<p style="text-align: center;">MANATEE COUNTY</p> <table border="1"> <tr> <td>ROAD NO.</td> <td>PROJECT ID</td> </tr> <tr> <td>MOCCASIN WALLOW RD</td> <td>6092560</td> </tr> </table>		ROAD NO.	PROJECT ID	MOCCASIN WALLOW RD	6092560	<p style="text-align: center;">TABULATION OF QUANTITIES (2)</p>		<p>SHEET NO. L-4</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																			
---	---	---	---																			
ROAD NO.	PROJECT ID																					
MOCCASIN WALLOW RD	6092560																					

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			L-24		L-25		L-26		L-27											
			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	30		100												130		285	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	1265		1155		1175		1030								4625		20600	
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	8		13		8		8								37		132	
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1														1		2	
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	60														60		120	
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE (12')	EA	1														1		2	
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF	4695		4485		4005		3474								16659		70861	
715-4-13	LIGHT POLE COMPLETE, FURNISH & INSTALL STANDARD POLE STANDARD FOUNDATION, 40' MOUNTING HEIGHT	EA			1												1		1	
715-4-32	LIGHT POLE COMPLETE, F&I, UTILITY CONFLICT POLE, INDEX 17515/715-002 FOUNDATION, 35' MOUNTING HEIGHT	EA	5		10		8		8								31		114	
715-4-42	LIGHT POLE COMPLETE, F&I, UTILITY CONFLICT POLE, SPECIAL FOUNDATION, 35' MOUNTING HEIGHT	EA																	8	
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	1														1		2	
715-11-211	LUMINAIRE, F&I- REPLACE EXISTING LUMINAIRE ON EXISTING POLE/ARM, ROADWAY, COBRA HEAD	EA																	4	
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA	5		11		8		8								32		123	

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

<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>DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915</p>		<p style="text-align: center;">MANATEE COUNTY</p> <table border="1"> <tr> <td>ROAD NO.</td> <td>PROJECT ID</td> </tr> <tr> <td>MOCCASIN WALLOW RD</td> <td>6092560</td> </tr> </table>		ROAD NO.	PROJECT ID	MOCCASIN WALLOW RD	6092560	<p style="text-align: center;"><i>TABULATION OF QUANTITIES (3)</i></p>		<p>SHEET NO.</p> <p style="text-align: center;">L-5</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																			
---	---	---	---																			
ROAD NO.	PROJECT ID																					
MOCCASIN WALLOW RD	6092560																					

LIGHTING GENERAL NOTES

1. SPARE CONDUIT AT PAVEMENT CROSSINGS SHALL BE CAPPED AT BOTH ENDS.
2. THE CONTRACTOR SHALL SUBMIT DESIGN DATA AND SHOP DRAWINGS FOR ALL EQUIPMENT TO MANATEE COUNTY TRAFFIC OPERATIONS DIVISION FOR REVIEW AND APPROVAL PRIOR TO ORDERING EQUIPMENT. THIS IS TO BE COORDINATED THROUGH THE MANATEE COUNTY CONSTRUCTION PROJECT MANAGER.

 MANATEE COUNTY TRAFFIC OPERATIONS DIVISION
 2904 12TH STREET COURT EAST
 BRADENTON, FLORIDA 34208
3. PROVIDE SHOP DRAWINGS OF THE PHOTOMETRIC CALCULATIONS FOR LUMINAIRES OTHER THAN THE BASIS OF DESIGN. THE BASIS OF DESIGN LUMINAIRES FOR THE MOCCASIN WALLOW ROAD SEGMENT ARE SPECIFIED ON THE LIGHTING DATA TABLE AND LEGEND SHEET. MEET ALL PHOTOMETRIC REQUIREMENTS IN THE CONTRACT DOCUMENTS.
4. 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.
5. BEFORE EXCAVATING, IT IS REQUIRED THAT NOTICE BE GIVEN TO SUNSHINE STATE ONE CALL OF FLORIDA, INC. (SSOCOF) AT 1-800-432-4770 A MINIMUM OF TWO (2) FULL BUSINESS DAYS BEFORE WORK BEGINS. NOT ALL UTILITY COMPANIES ARE MEMBERS OF SSOCOF.
6. THE LOCATION OF THE POLES, CONDUCTORS, CONDUITS, JUNCTION BOXES AND SERVICE POLES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED WITHIN THE RIGHT-OF-WAY BY THE CONTRACTOR WITH APPROVAL FROM THE ENGINEER TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS. THE MAINTENANCE SLAB ORIENTATION SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER PER INDIVIDUAL POLE LOCATION.
7. 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.
8. ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NEC) AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER NEC REQUIREMENTS.
9. INSTALL LIGHTNING ARRESTORS, PROPERLY GROUNDED, IN POWER (SECONDARY) ENTRANCES, ON OUTSIDE OF ENCLOSURE.
10. IN ACCORDANCE WITH NEC, IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACOID TAGS". INSTALL SIMILAR TAGS OF STAINLESS STEEL IDENTIFYING THE CIRCUIT FOR EACH LUMINAIRE AT ACCESS HANDHOLE OF EACH POLE.
11. THE CONTRACTOR SHALL NOTIFY FLORIDA POWER AND LIGHT AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO ANY INSTALLATION THAT IS WITHIN THE DISTANCE PER OSHA'S CURRENT REQUIREMENTS OF ANY ENERGIZED ELECTRICAL CONDUCTORS. FLORIDA POWER AND LIGHT, AT ITS OPTION, SHALL ASSIST THE CONTRACTOR TO COVER UP ENERGIZED CONDUCTORS AT INSTALLATION SITES 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.

 TABLE A - MINIMUM CLEARANCE DISTANCES SPECIFIED IN SUBPART CC OF OSHA RULE 1926 (AS THEY PERTAIN TO CRANE/DERRICK OPERATIONS), AND/OR THOSE MINIMUM DISTANCES SPECIFIED IN 29 CFR 1910.333(c)(3)(i)(A) AND (iii)(A) FOR WORK IN PROXIMITY TO POWER LINES NOT COVERED BY THIS SUBPART CC, ARE TO BE MAINTAINED.
12. FINAL OFFSETS FOR THE STREET LIGHT POLES OR ARMS SHALL BE A MINIMUM OF 10 FEET FROM OVERHEAD CONDUCTORS.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING FLORIDA POWER AND LIGHT TO DETERMINE IF A SERVICE PROCESSING OR OTHER FEES ARE REQUIRED. ANY FEES SHALL BE INCLUDED AS PART OF THE PAYMENT FOR THE LOAD CENTER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS OF THE POWER SERVICE AND LOAD CENTER. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION INSPECTION AND ENERGIZING OF THE NEW LOAD CENTER IN A TIMELY MANNER IN ORDER TO PROMOTE PROJECT COMPLETION WITHIN CONTRACT TIME.
14. THE CONTRACTOR SHALL COORDINATE WITH FLORIDA POWER AND LIGHT REPRESENTATIVE GREG COKER AT 941-723-4430 PRIOR TO CONSTRUCTION FOR THE FINAL POWER POINT OF SERVICE LOCATIONS.
15. THE CONTRACTOR SHALL COORDINATE WITH FLORIDA POWER AND LIGHT ON SCHEDULES INVOLVING INSTALLING BOTH THE UTILITY CONFLICT POLES AND FOUNDATIONS AT LOCATIONS IN CLOSE PROXIMITY TO OVERHEAD POWER LINES. THE CONTRACTOR SHALL USE ANY SPECIAL EQUIPMENT NEEDED FOR DRILLING AND/OR INSTALLING THE FOUNDATION AND LIGHT POLE TO AVOID DE-ENERGIZING THE POWER LINES WHERE POSSIBLE. A LOW PROFILE RIG SHALL BE USED AT THE LOCATIONS WHERE POWER LINES ARE IN CLOSE PROXIMITY BASED ON OSHA REQUIREMENTS.
16. 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 THE NATIONAL ELECTRICAL CODE OR NATIONAL ELECTRICAL SAFETY CODE FOR CABLE USED.
17. THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND REQUEST UTILITY COMPANIES TO LOCATE AND STAKE UNDERGROUND UTILITIES PRIOR TO EXCAVATING. THIS INCLUDES NOTIFYING FLORIDA POWER AND LIGHT ON REVIEWING THE STAKED LOCATIONS WITH RESPECT TO THE OVERHEAD POWER LINES.
18. 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.
19. DIRECTIONAL BORE OPERATIONS, IF USED, SHALL MEET THE REQUIREMENTS OF FDOT'S UTILITY ACCOMMODATION MANUAL (LATEST EDITION).
20. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE WITHIN TWO FEET OF THE LIGHTING POLE FOUNDATION OR CONDUIT RUN, THE CONTRACTOR SHALL HAND DIG THE FIRST FOUR (4) FEET OF THE HOLE FOR THE POLE FOUNDATION AND/OR CONDUIT RUN.
21. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE PROVISIONS THAT REQUIRES THE PREPARATION AND APPROVAL OF AN EROSION CONTROL PLAN THAT ADDRESSES PREVENTION, CONTROL AND ABATEMENT OF WATER POLLUTION.
22. THE CONTRACTOR SHALL BE AWARE THAT NO TEST BORINGS WHERE MADE WHERE CONDUIT OR PULL BOXES ARE TO BE INSTALLED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.
23. ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. THE CONTRACTOR SHALL NOT OPEN ANY AREA THAT CAN NOT BE BACKFILLED IN THE SAME WORK PERIOD.
24. MAINTAIN ACCESS TO ALL SIDE STREETS, PRIVATE AND COMMERCIAL DRIVEWAYS AT ALL TIMES DURING THE CONSTRUCTION OPERATION.
25. NO SCREW TYPE BASE FOUNDATIONS SHALL BE USED ON THIS PROJECT.
26. THE CONTRACTOR SHALL NOTIFY MANATEE COUNTY BEFORE ANY TRENCHING OR DIGGING AT SIGNALIZED INTERSECTIONS SO THAT ALL UNDERGROUND LOOP LEAD-INS AND ELECTRICAL CABLES CAN BE IDENTIFIED AND MARKED APPROPRIATELY.
27. THE LIGHTING SYSTEM WILL BE MAINTAINED BY MANATEE COUNTY UPON FINAL ACCEPTANCE. NOTIFY THE TRAFFIC ENGINEERING DIVISION (MR. VISHAL S. KAKKAD, 941-749-3502) AT LEAST TWO (2) BUSINESS DAYS IN ADVANCE TO SCHEDULE THE FINAL INSPECTION. UPON PASSING THE FINAL INSPECTION, SEND A WRITTEN REQUEST TO THE FOLLOWING:

 MR. AARON BURKETT
 MANATEE COUNTY TRAFFIC OPERATIONS DIVISION
 2904 12TH STREET COURT EAST
 BRADENTON, FLORIDA 34208
 EMAIL: AARON.BURKETT@MYMANATEE.ORG
28. WHEN CONSTRUCTION IS COMPLETE, A HARD COPY SET OF "AS-BUILT" PLANS IN ADDITION TO AN ELECTRONIC COPY (pdf) IS TO BE SUBMITTED TO:

 MANATEE PUBLIC WORKS
 ATTN: VISHAL S. KAKKAD, PE, PTOE
 TRAFFIC DESIGN DIVISION MANAGER
 2101 47TH TERRACE EAST
 BRADENTON, FL 34203
 EMAIL: VISHAL.KAKKAD@MYMANATEE.ORG
29. ALL EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
30. THE WIRES AT THE POLE HANDHOLES AND PULL BOXES SHALL BE LOOPED IN THE POLE AND PULL BOXES WITH SUFFICIENT LENGTH TO COMPLETELY REMOVE CONNECTORS AND SPLICES ONE FOOT OUTSIDE OF THE HANDHOLE AND PULL BOXES. THE SLACK IS FOR MAKING CONNECTIONS AND SPLICES ACCESSIBLE FOR CHANGING FUSES AND TROUBLE SHOOTING THE SYSTEM.
31. LIGHT POLES AND PULL BOXES SHALL NOT BE LOCATED IN DRAINAGE SWALES, DITCHES, WETLANDS, DRIVEWAYS, SURFACE WATER, PAVED SHOULDERS OR PEDESTRIAN RAMPS. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER FOR AN APPROVED OFFSET ADJUSTMENT IF NECESSARY.
32. FOR LOCATIONS WHERE THE LIGHT POLE IS WITHIN OR ADJACENT TO THE PROPOSED SIDEWALK, THE POLE FOUNDATION ELEVATION SHALL MATCH THE PROPOSED SIDEWALK GRADE.
33. ALL EXCESS DIRT AND DEBRIS EXCAVATED FROM POLE FOUNDATIONS SHALL BE REMOVED DAILY TO AREAS APPROVED BY THE ENGINEER AND PAID FOR UNDER ASSOCIATED PROPOSED LIGHT POLE COMPLETE PAY ITEM.

REQUESTING TO TRANSFER MAINTENANCE FROM THE CONTRACTOR TO MANATEE COUNTY. MANATEE COUNTY WILL RESPOND WITHIN FIVE (5) WORKING DAYS TO ESTABLISH A TIME TABLE FOR THE TRANSFER OF MAINTENANCE IRRESPONSIBILITY.

CONDUIT LEGEND
 LC = LIGHTING CONDUIT
 SP = SPARE CONDUIT

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		SHEET NO. GENERAL NOTES L-6
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID	
----	----				MOCCASIN WALLOW RD	6092560	

LIGHTING PAY ITEM FOOTNOTES

1. **PAY ITEM 630-2-II:**
THIS PAY ITEM SHALL INCLUDE CONDUIT, ELBOWS, SWEEPS, CONNECTING HARDWARE, TRENCHING, AND BACKFILL AS INDICATED IN THE PLANS AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS. THE LINEAR FOOT PRICE FOR CONDUIT SHALL ALSO INCLUDE THE COST OF RESTORING CUT PAVEMENT, SIDEWALK, SOD, ETC., TO ITS ORIGINAL CONDITION. SOD SHALL BE REPLACED IN LIKE KIND OF THE ADJACENT SURROUNDINGS. THE CONDUIT SHALL BE SCHEDULE 40 PVC WITH A MINIMUM SIZE OF 2 INCHES. THE SIZE OF CONDUIT SHALL MEET NEC CONDUIT FILL CRITERIA WITH RESPECT TO THE SIZE AND NUMBER OF CONDUCTORS.

PAYMENT FOR CONDUIT PLACED UNDERGROUND WILL BE BASED ON THE HORIZONTAL LENGTH OF THE TRENCH MEASURED IN A STRAIGHT LINE BETWEEN THE CENTERS OF PULL BOXES, CABINETS, POLES, ETC., IN LINEAR FEET REGARDLESS OF THE LENGTH OR NUMBER OF CONDUITS INSTALLED. NO ADDITIONAL PAYMENT WILL BE MADE FOR MULTIPLE CONDUITS IN THE SAME TRENCH.

2. **PAY ITEM 630-2-12:**
ALL CONDUITS INSTALLED WITH THE DIRECTIONAL BORE METHOD SHALL BE HDPE TYPE SDR 11 WITH A MINIMUM SIZE OF 2 INCHES. THE SIZE OF CONDUIT SHALL MEET NEC CONDUIT FILL CRITERIA WITH RESPECT TO THE SIZE AND NUMBER OF CONDUCTORS. HDPE CONDUIT AND THE TRANSITION COUPLING SHALL BE UL LISTED. ALL DIRECTIONAL BORE SHALL INCLUDE A 2 INCH SPARE CONDUIT WHERE BOTH ENDS SHALL SWEEP UP INTO A STREET LIGHT PULL BOX AND CAPPED WITH A WATER TIGHT CAP. THE SPARE CONDUIT SHALL BE POPULATED WITH A PULL CORD.

PAYMENT FOR CONDUIT PLACED UNDERGROUND WILL BE BASED ON THE HORIZONTAL LENGTH OF THE BORE MEASURED IN A STRAIGHT LINE BETWEEN THE CENTERS OF PULL BOXES, CABINETS, POLES, ETC., IN LINEAR FEET REGARDLESS OF THE LENGTH OR NUMBER OF CONDUITS INSTALLED. NO ADDITIONAL PAYMENT WILL BE MADE FOR MULTIPLE CONDUITS IN THE SAME BORE.

3. **PAY ITEM 635-2-II:**
FDOT APPROVED STREET LIGHT COMPOSITE PULL BOXES SHALL BE NOMINAL 24 INCHES LONG BY 13 INCHES WIDE AND A MINIMUM 18 INCHES DEEP WITH HEAVY DUTY NON-METALLIC LIDS. GROUNDING IS NOT REQUIRED FOR THE PULL BOX. LIDS SHALL HAVE A PERMANENT "STREET LIGHTING" LOGO STAMPED IN RAISED LETTERS. INCLUDED IN THIS COST IS THE CONCRETE APRON PER FDOT STANDARD PLANS INDEX 715-001. THIS PAY ITEM SHALL ALSO INCLUDE THE COST OF MANATEE COUNTY APPROVED SECURITY BOLTS FOR THE LIDS. THE BOLTS SHALL BE INSTALLED UPON FINAL ACCEPTANCE.

4. **PAY ITEM 639-1-122:**
THE POWER SERVICE ASSEMBLY SHALL FOLLOW FDOT STANDARD PLANS AND SPECIFICATIONS AND FP&L REQUIREMENTS NECESSARY FOR A COMPLETE INSTALLATION.

5. **PAY ITEMS 715-1-12:**
THIS PAY ITEM SHALL INCLUDE CONDUCTORS AS INDICATED IN THE PLANS AND THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS. PAYMENT SHALL BE MADE BASED ON LINEAR FOOT OF SINGLE CONDUCTOR.

6. **PAY ITEM 715-4-13:**
THIS PAY ITEM SHALL INCLUDE A STANDARD ALUMINUM LIGHT POLE WITH 40-FOOT MOUNTING HEIGHT, 15-FOOT BRACKET ARM, LED LUMINAIRE, ANCHOR BOLTS WITH LOCK NUTS AND WASHERS, VIBRATION DAMPENING DEVICE, FRANGIBLE BREAKAWAY TRANSFORMER TYPE BASE AND FOUNDATION. THE COST OF BREAK-AWAY WATERTIGHT, IN-LINE FUSE HOLDERS, THE STRAIN RELIEF AND THE SURGE ARRESTOR SHALL BE PAID FOR UNDER PAY ITEM 715-500-1.

THE LUMINAIRE TO BE INCLUDED UNDER THIS PAY ITEM IS SPECIFIED ON THE LIGHTING DATA TABLE AND LEGEND SHEETS. THIS INCLUDES THE PHOTOMETRIC CURVES USED FOR THE ANALYSIS. THE LUMINAIRE SHALL INCLUDE THE EVOLVE FIELD ADJUSTABLE MODULE.

THE COST OF THE MAINTENANCE SLAB AS SPECIFIED IN THE FDOT STANDARD PLANS INDEX 715-001 IS INCLUDED UNDER THIS PAY ITEM. THE ORIENTATION OF THE MAINTENANCE SLAB IN THE PLANS IS SCHEMATIC AND MAYBE ADJUSTED BY THE CONTRACTOR UNDER APPROVAL OF THE ENGINEER. IF THE SLAB CONFLICTS WITH THE PROPOSED SIDEWALK OR RIGHT-OF-WAY LINE, THE SLAB SHALL BE MODIFIED BY ENDING THE SLAB ADJACENT TO THE EDGE OF THE SIDEWALK OR AT THE RIGHT-OF-WAY LINE. THERE SHOULD BE NO GAP BETWEEN THE SLAB AND THE EDGE OF SIDEWALK. THE SLAB ELEVATION SHALL MATCH THE BACK OF THE SIDEWALK ELEVATION.

7. **PAY ITEMS 715-4-32 AND 715-4-42:**
THIS PAY ITEM SHALL INCLUDE THE UTILITY CONFLICT POLE WITH 35-FOOT MOUNTING HEIGHT, 15-FOOT BRACKET ARM, LED LUMINAIRE, HOUSE SIDE SHIELDS WHERE INDICATED ON THE POLE DATA TABLE, ANCHOR BOLTS WITH LOCK NUTS AND WASHERS, VIBRATION DAMPENING DEVICE, FRANGIBLE BREAKAWAY TRANSFORMER TYPE BASE AND FOUNDATION. THE COST OF BREAK-AWAY WATERTIGHT, IN-LINE FUSE HOLDERS, THE STRAIN RELIEF AND THE SURGE ARRESTOR SHALL BE PAID FOR UNDER PAY ITEM 715-500-1. FOR ADDITIONAL INFORMATION ON THE UTILITY CONFLICT POLE, SEE THE UTILITY CONFLICT POLE ASSEMBLY DETAILS IN THE PLANS.

FOR LIGHT POLES CALLING FOR SPECIAL FOUNDATIONS, THE CONTRACTOR SHALL DETERMINE CASE I OR CASE II PER INDIVIDUAL POLE LOCATION. THE CONTRACTOR CAN USE A STANDARD FOUNDATION IN PLACE OF THE SPECIAL FOUNDATION WHERE A STANDARD FOUNDATION DOES NOT CONFLICT WITH UTILITIES. THIS SUBSTITUTION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. SEE LIGHT POLE SPECIAL FOUNDATION SHEETS FOR ADDITIONAL INFORMATION.

THE CONTRACTOR CAN SUBSTITUTE A SPECIAL FOUNDATION FOR LIGHT POLES SPECIFYING STANDARD FOUNDATIONS AT POLE LOCATIONS WHERE A POLE NEEDS TO BE SHIFTED OR UNFORESEEN CONDITIONS PREVENT A STANDARD FOUNDATION TO BE INSTALLED WITHOUT CONFLICTS.

THE LUMINAIRE TO BE INCLUDED UNDER THIS PAY ITEM IS SPECIFIED ON THE LIGHTING DATA TABLE AND LEGEND SHEETS. THIS INCLUDES THE PHOTOMETRIC CURVES USED FOR THE ANALYSIS. A HOUSE SIDE SHIELD ACCESSORY (ELSHS-ERLH) SHALL BE INCLUDED WITH ALL LUMINAIRES AND INSTALLED ONLY ON THE LUMINAIRES SPECIFIED ON THE LIGHTING DATA TABLE. THE SHIELD SHALL BE INSTALLED PRIOR TO ENERGIZING THE LUMINAIRE. ALL SPARE HOUSE SIDE SHIELDS SHALL BE DELIVERED TO MANATEE COUNTY SIGNAL SHOP. ALL LUMINAIRES SHALL ALSO INCLUDE THE EVOLVE FIELD ADJUSTABLE MODULE.

THE COST OF THE MAINTENANCE SLAB AS SPECIFIED IN THE FDOT STANDARD PLANS INDEX 715-001 IS INCLUDED UNDER THIS PAY ITEM. THE ORIENTATION OF THE MAINTENANCE SLAB IN THE PLANS IS SCHEMATIC AND MAYBE ADJUSTED BY THE CONTRACTOR UNDER APPROVAL OF THE ENGINEER. IF THE SLAB CONFLICTS WITH THE PROPOSED SIDEWALK OR RIGHT-OF-WAY LINE, THE SLAB SHALL BE MODIFIED BY ENDING THE SLAB ADJACENT TO THE EDGE OF THE SIDEWALK OR AT THE RIGHT-OF-WAY LINE. THERE SHOULD BE NO GAP BETWEEN THE SLAB AND THE EDGE OF SIDEWALK. THE SLAB ELEVATION SHALL MATCH THE BACK OF THE SIDEWALK ELEVATION.

8. **PAY ITEM 715-7-II:**
THIS PAY ITEM FOR THE UNDERGROUND SERVICE SHALL FOLLOW FDOT STANDARD PLANS AND SPECIFICATIONS TO FURNISH AND INSTALL THE LIGHTING LOAD CENTER. MATERIALS INCLUDE BUT ARE NOT LIMITED TO FUSED CONTROL POWER TRANSFORMERS, CABINET, ADDITIONAL ENCLOSURES, PANEL BOARDS, MAIN BREAKER, CIRCUIT BREAKERS, FUSES, LIGHTNING PROTECTOR, PHOTO-ELECTRIC ASSEMBLY, CONTACTOR, H.O.A. SWITCH, CONDUIT AND FEEDER CONDUCTORS FROM POWER COMPANY POINT OF SERVICE TO LIGHTING CONTROL PANEL AND ALL MISCELLANEOUS HARDWARE FOR A COMPLETE INSTALLATION.

THE LOAD CENTER SHALL BE A THREE WIRE, SINGLE PHASE 240V/480V POWER SERVICE ASSEMBLY.

9. **PAY ITEM 715-II-211:**
THE LUMINAIRES REPLACING THE EXISTING HPS LUMINAIRES ON THE US 41 EXISTING LIGHT POLES SHALL BE 177 WATT GE EVOLVE LED LUMINAIRES WITH 4000K COLOR TEMPERATURE AND DISTRIBUTION TYPE IV AND WIRED FOR 480 VOLT OPERATION. THE PHOTOMETRIC CURVE FOR THIS LUMINAIRE IS PROVIDED IN THE POLE DATA LEGEND. THE LUMINAIRE SHALL INCLUDE THE EVOLVE FIELD ADJUSTABLE MODULE.

10. **PAY ITEM 715-500-1:**
THIS PAY ITEM INCLUDES THE COST OF BREAKAWAY WATERTIGHT, IN-LINE FUSE HOLDERS. THE STRAIN RELIEF, AND THE SURGE ARRESTOR PER STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS INDEX 715-001.

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		SHEET NO. L-7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID	
----	----				MOCCASIN WALLOW RD	6092560	

LIGHTING DATA TABLE

POLE NO.	CIRCUIT	STATION & OFFSET	DIST. OR ARM	LUMINAIRE WATTAGE	DISTRIBUTION	HOUSE SIDE SHIELD	MOUNTING HEIGHT	FOUNDATION TYPE	PAY ITEM
REPLACE LUMINAIRE ON EXISTING US 41 LIGHT POLE - TAG # 93A8				177	TYPE IV	NO	EXISTING POLE TO REMAIN	715-II-211	
REPLACE LUMINAIRE ON EXISTING US 41 LIGHT POLE - TAG # 93A6				177	TYPE IV	NO	EXISTING POLE TO REMAIN	715-II-211	
REPLACE LUMINAIRE ON EXISTING US 41 LIGHT POLE - TAG # 93A5				177	TYPE IV	NO	EXISTING POLE TO REMAIN	715-II-211	
REPLACE LUMINAIRE ON EXISTING US 41 LIGHT POLE - TAG # 93A7				177	TYPE IV	NO	EXISTING POLE TO REMAIN	715-II-211	
1	A-2	298+76 CL MOCCASIN WALLOW, 37.7' RT	15'	136	TYPE III	YES	35'	STANDARD	715-4-32
2	A-1	299+18 CL MOCCASIN WALLOW, 77.0' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
3	A-2	300+82 CL MOCCASIN WALLOW, 69.1' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
4	A-1	301+36 CL MOCCASIN WALLOW, 57.5' LT	15'	136	TYPE III	NO	35'	STANDARD	715-4-32
5	A-2	302+02 CL MOCCASIN WALLOW, 51.3' RT	15'	98	TYPE III	NO	35'	SPECIAL	715-4-42
6	A-1	302+96 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
7	A-2	303+87 CL MOCCASIN WALLOW, 51.3' RT	15'	98	TYPE III	YES	35'	SPECIAL	715-4-42
8	A-1	304+95 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
9	A-2	305+76 CL MOCCASIN WALLOW, 53.8' RT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
10	A-1	306+91 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
11	A-2	307+74 CL MOCCASIN WALLOW, 51.3' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
12	A-1	308+84 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
13	A-2	309+83 CL MOCCASIN WALLOW, 51.3' RT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
14	A-1	310+89 CL MOCCASIN WALLOW, 57.6' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
15	A-2	311+85 CL MOCCASIN WALLOW, 51.4' RT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
16	A-1	312+67 CL MOCCASIN WALLOW, 61.5' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
17	A-2	313+65 CL MOCCASIN WALLOW, 58.6' RT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
18	A-1	314+53 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
19	A-2	315+51 CL MOCCASIN WALLOW, 52.2' RT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
20	A-1	316+45 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
21	A-2	317+67 CL MOCCASIN WALLOW, 58.7' RT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
22	A-1	318+38 CL MOCCASIN WALLOW, 57.4' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
23	A-2	319+37 CL MOCCASIN WALLOW, 58.8' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
24	A-1	320+33 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
25	A-2	321+27 CL MOCCASIN WALLOW, 58.8' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
26	A-1	322+38 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
27	A-2	323+13 CL MOCCASIN WALLOW, 58.6' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
28	A-1	324+20 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
29	A-2	325+09 CL MOCCASIN WALLOW, 58.6' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
30	A-3	326+13 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
31	A-4	326+99 CL MOCCASIN WALLOW, 58.6' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
32	A-3	328+06 CL MOCCASIN WALLOW, 57.6' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
33	A-4	328+89 CL MOCCASIN WALLOW, 58.5' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
34	A-3	329+94 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
35	A-4	330+88 CL MOCCASIN WALLOW, 58.5' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
36	A-3	331+78 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	YES	35'	SPECIAL	715-4-42
37	A-4	332+47 CL MOCCASIN WALLOW, 58.3' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
38	A-3	333+70 CL MOCCASIN WALLOW, 76.5' LT	15'	98	TYPE III	YES	35'	SPECIAL	715-4-42
39	A-4	334+39 CL MOCCASIN WALLOW, 60.3' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
40	A-3	335+67 CL MOCCASIN WALLOW, 75.5' LT	15'	98	TYPE III	YES	35'	SPECIAL	715-4-42
41	A-4	336+37 CL MOCCASIN WALLOW, 69.9' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
42	A-3	337+38 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
43	A-4	338+45 CL MOCCASIN WALLOW, 71.4' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
44	A-3	338+97 CL MOCCASIN WALLOW, 80.7' LT	15'	136	TYPE IV	YES	35'	SPECIAL	715-4-42

MANATEE COUNTY
CONVENTIONAL ROADWAY
LIGHTING DESIGN CRITERIA

FDOT INTERSECTION
LIGHTING DESIGN CRITERIA

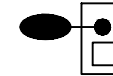
AVERAGE INITIAL INTENSITY 1.0 FOOT CANDLES
UNIFORMITY RATIO AVG./MIN. 4:1 OR LESS
MAX./MIN. 10:1 OR LESS
VEILING LUMINANCE RATIO 0.4:1 OR LESS
WIND SPEED 140 MPH

AVERAGE HORIZONTAL INTENSITY 3.0 FOOT CANDLES
(1.5 FOOT CANDLES MINIMUM)
UNIFORMITY RATIO AVG./MIN. 4:1 OR LESS
MAX./MIN. 10:1 OR LESS
AVERAGE VERTICAL INTENSITY 1.5 FOOT CANDLES
(1.2 FOOT CANDLES MINIMUM)
VEILING LUMINANCE RATIO 0.4:1 OR LESS
WIND SPEED 140 MPH

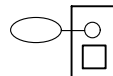
LEGEND

SYMBOLS

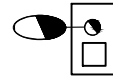
DESCRIPTION



MOCCASIN WALLOW ROAD UTILITY CONFLICT LIGHT POLE WITH 98 WATT LED LUMINAIRE:
98 WATT LED GE EVOLVE ERLH LUMINAIRE. DESIGNED FOR A FULL CUTOFF WITH 3000K COLOR TEMPERATURE. LUMINAIRE IS TO BE WIRED FOR 480 VOLT OPERATION. ONLY THE LUMINAIRES SPECIFIED IN THE POLE DATA TABLES SHALL INCLUDE A HOUSE SIDE SHIELD. DESIGN USED ERLH_11B330____-ELSHS-ERL-BLCK.IES, ERLH_11C330____-ELSHS-ERL-BLCK.IES AND ERLH_11D330____-ELSHS-ERL-BLCK.IES FOR TYPE II, TYPE III AND TYPE IV DISTRIBUTIONS RESPECTIVELY. DISTRIBUTION TYPE PER LUMINAIRE IS SHOWN ON THE POLE DATA TABLE. UTILITY CONFLICT LIGHT POLE MOUNTING HEIGHT OF 35 FEET WITH 15 FOOT ARM. THE LIGHT POLE FOUNDATION TYPE IS SPECIFIED IN THE LIGHTING DATA TABLE. UTILITY CONFLICT LIGHT POLE INCLUDES THE COST OF A MAINTENANCE PAD. PULL BOX AND POLE CABLE DISTRIBUTION SYSTEM (PCDS) TO BE PAID FOR SEPARATELY. FOR MORE INFORMATION FOR THE UTILITY CONFLICT POLES, SEE THE UTILITY CONFLICT LIGHT POLE DETAILS SHEET IN THE PLANS.



MOCCASIN WALLOW ROAD UTILITY CONFLICT LIGHT POLE WITH 136 WATT LED LUMINAIRE:
136 WATT LED GE EVOLVE ERLH LUMINAIRE. DESIGNED FOR A FULL CUTOFF WITH 3000K COLOR TEMPERATURE. LUMINAIRE IS TO BE WIRED FOR 480 VOLT OPERATION. ONLY THE LUMINAIRES SPECIFIED IN THE POLE DATA TABLES SHALL INCLUDE A HOUSE SIDE SHIELD. DESIGN USED ERLH_15B330____-ELSHS-ERL-BLCK.IES, ERLH_15C330____-ELSHS-ERL-BLCK.IES AND ERLH_15D330____-ELSHS-ERL-BLCK.IES FOR TYPE II, TYPE III AND TYPE IV DISTRIBUTIONS RESPECTIVELY. DISTRIBUTION TYPE PER LUMINAIRE IS SHOWN ON THE POLE DATA TABLE. UTILITY CONFLICT LIGHT POLE MOUNTING HEIGHT OF 35 FEET WITH 15 FOOT ARM. THE LIGHT POLE FOUNDATION TYPE IS SPECIFIED IN THE LIGHTING DATA TABLE. UTILITY CONFLICT LIGHT POLE INCLUDES THE COST OF A MAINTENANCE PAD. PULL BOX AND POLE CABLE DISTRIBUTION SYSTEM (PCDS) TO BE PAID FOR SEPARATELY. FOR MORE INFORMATION FOR THE UTILITY CONFLICT POLES, SEE THE UTILITY CONFLICT LIGHT POLE DETAILS SHEET IN THE PLANS.



MOCCASIN WALLOW ROAD STANDARD LIGHT POLE WITH 214 WATT LED LUMINAIRE:
214 WATT LED GE EVOLVE ERL2 LUMINAIRE. DESIGNED FOR A FULL CUTOFF WITH TYPE IV DISTRIBUTION AND 3000K COLOR TEMPERATURE. LUMINAIRE IS TO BE WIRED FOR 480 VOLT OPERATION. DESIGN USED ERL2_25D340____.IES. THE STANDARD LIGHT POLE MOUNTING HEIGHT IS 40 FEET WITH A 15 FOOT ARM. THE LIGHT POLE FOUNDATION TYPE IS SPECIFIED IN THE LIGHTING DATA TABLE. THE STANDARD LIGHT POLE INCLUDES THE COST OF A MAINTENANCE PAD. PULL BOX AND POLE CABLE DISTRIBUTION SYSTEM (PCDS) TO BE PAID FOR SEPARATELY.



US 41 LUMINAIRE REPLACEMENTS ON EXISTING FDOT LIGHT POLES:
177 WATT LED GE EVOLVE ERL2 LUMINAIRE. DESIGNED FOR A FULL CUTOFF WITH TYPE IV DISTRIBUTION AND 4000K COLOR TEMPERATURE. WIRED FOR 480 VOLT OPERATION. DESIGN USED ERL2_21D340____-347-480.IES. THE PROPOSED LED LUMINAIRE SHALL REPLACE THE EXISTING HPS LUMINAIRE AND THE EXISTING LIGHT POLES SHALL REMAIN.

● SCHEDULE 40 PVC CONDUIT WITH THWN-2 CONDUCTORS INSIDE (CONDUIT AND CONDUCTOR SIZE AS SHOWN ON PLAN SHEETS). RUN ONE (1) #6 AWG COPPER BOND CONDUCTOR (THWN-2 GREEN INSULATION) INSIDE CONDUIT WITH OTHER CONDUCTORS.

●● HDPE CONDUIT, DIRECTIONAL BORED UNDER PAVEMENT WITH THWN-2 CONDUCTORS INSIDE (CONDUIT AND CONDUCTOR SIZE AS SHOWN ON PLAN SHEETS). EXTEND CONDUIT BEYOND EDGE OF PAVEMENT TO PULL BOXES. RUN ONE (1) #6 AWG COPPER BOND CONDUCTOR (THWN-2 GREEN INSULATION) INSIDE CONDUIT WITH OTHER CONDUCTORS. ALL DIRECTIONAL BORE SHALL INCLUDE AN EMPTY SPARE CONDUIT WITH A PULL WIRE AS SHOWN IN THE PLANS.

□ PROPOSED PULL BOX. FOR SPECIFICATIONS SEE SECTION 635 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

○ LOAD CENTER. FOR SPECIFICATIONS SEE THE THE PLANS AND FDOT STANDARD PLANS INDEX 639-001.

○ POWER SER4VICE ASSEMBLY. FOR SPECIFICATIONS SEE FDOT STANDARD PLANS INDEX 639-001.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
CARDNO
3905 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA 33578
CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY

ROAD NO. PROJECT ID
MOCCASIN WALLOW RD 6092560

LIGHTING DATA TABLE AND
LEGEND

SHEET NO.

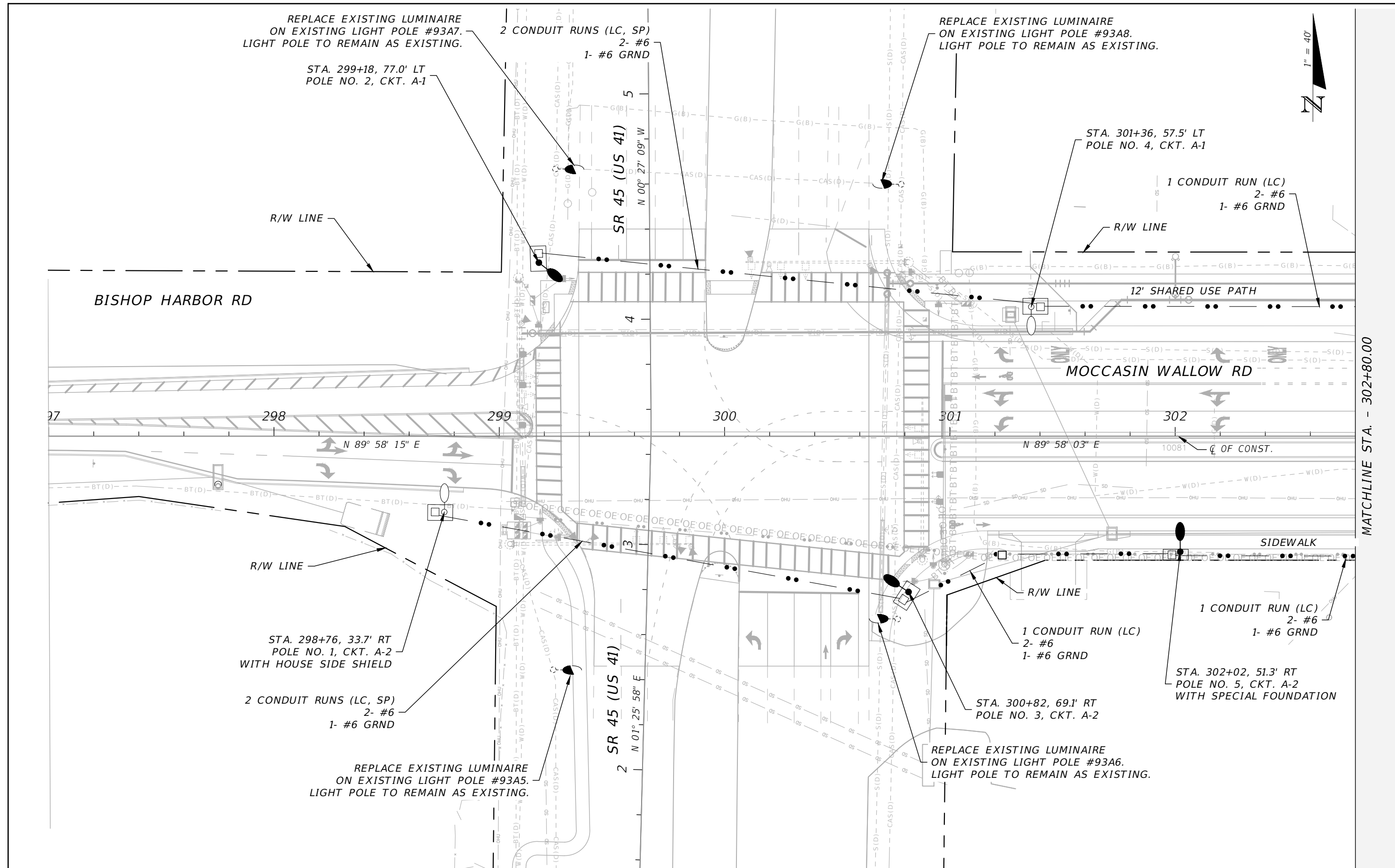
L-8

LIGHTING DATA TABLE

POLE NO.	CIRCUIT	STATION & OFFSET	DIST. OR ARM	LUMINAIRE WATTAGE	DISTRIBUTION	HOUSE SIDE SHIELD	MOUNTING HEIGHT	FOUNDATION TYPE	PAY ITEM
45	A-4	338+87 CL MOCCASIN WALLOW, 83.4' RT	15'	98	TYPE IV	NO	35'	STANDARD	715-4-32
46	A-3	239+25 CL BUD RHODEN, 31.2' LT	15'	136	TYPE II	YES	35'	STANDARD	715-4-32
47	A-4	236+85 CL ELLENTON GILLETTE, 37.0' RT	15'	136	TYPE II	NO	35'	STANDARD	715-4-32
48	A-4	340+26 CL MOCCASIN WALLOW, 58.0' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
49	A-3	340+39 CL MOCCASIN WALLOW, 69.4' LT	15'	136	TYPE III	NO	35'	STANDARD	715-4-32
50	A-4	341+39 CL MOCCASIN WALLOW, 58.5' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
51	A-3	342+39 CL MOCCASIN WALLOW, 69.5' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
52	A-4	343+36 CL MOCCASIN WALLOW, 59.2' RT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
53	A-3	343+98 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
54	A-4	345+55 CL MOCCASIN WALLOW, 58.3' RT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
55	A-3	346+12 CL MOCCASIN WALLOW, 57.4' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
56	A-4	347+52 CL MOCCASIN WALLOW, 58.6' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
57	A-3	348+21 CL MOCCASIN WALLOW, 57.6' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
58	A-4	349+43 CL MOCCASIN WALLOW, 58.4' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
59	A-3	350+14 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
60	A-4	351+35 CL MOCCASIN WALLOW, 58.5' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
61	A-3	352+19 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
62	A-4	353+12 CL MOCCASIN WALLOW, 58.5' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
63	B-1	354+18 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
64	B-2	355+15 CL MOCCASIN WALLOW, 58.5' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
65	B-1	356+17 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
66	B-2	357+37 CL MOCCASIN WALLOW, 70.0' RT	15'	98	TYPE III	NO	35'	SPECIAL	715-4-42
67	B-1	358+07 CL MOCCASIN WALLOW, 57.3' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
68	B-2	359+18 CL MOCCASIN WALLOW, 58.6' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
69	B-1	359+98 CL MOCCASIN WALLOW, 57.6' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
70	B-2	360+95 CL MOCCASIN WALLOW, 58.7' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
71	B-1	362+03 CL MOCCASIN WALLOW, 57.7' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
72	B-2	363+21 CL MOCCASIN WALLOW, 56.7' RT	15'	136	TYPE III	NO	35'	STANDARD	715-4-32
73	B-1	363+82 CL MOCCASIN WALLOW, 59.4' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
74	B-2	364+93 CL MOCCASIN WALLOW, 79.6' RT	15'	136	TYPE III	NO	35'	STANDARD	715-4-32
75	B-1	365+84 CL MOCCASIN WALLOW, 60.9' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
76	B-2	366+76 CL MOCCASIN WALLOW, 79.4' RT	15'	136	TYPE IV	NO	35'	STANDARD	715-4-32
77	B-1	366+96 CL MOCCASIN WALLOW, 90.0' LT	15'	136	TYPE IV	YES	35'	STANDARD	715-4-32
78	B-1	271+12 CL ARTESAN LAKES, 49.0' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
79	B-2	368+32 CL MOCCASIN WALLOW, 77.7' RT	15'	98	TYPE IV	NO	35'	STANDARD	715-4-32
80	B-1	368+59 CL MOCCASIN WALLOW, 83.7' LT	15'	136	TYPE IV	YES	35'	STANDARD	715-4-32
81	B-2	368+79 CL MOCCASIN WALLOW, 67.4' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
82	B-1	369+11 CL MOCCASIN WALLOW, 69.5' LT	15'	98	TYPE II	YES	35'	STANDARD	715-4-32
83	B-2	370+37 CL MOCCASIN WALLOW, 58.7' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
84	B-1	371+19 CL MOCCASIN WALLOW, 69.5' LT	15'	98	TYPE III	YES	35'	SPECIAL	715-4-42
85	B-2	372+43 CL MOCCASIN WALLOW, 58.3' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
86	B-1	372+81 CL MOCCASIN WALLOW, 69.5' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
87	B-2	374+37 CL MOCCASIN WALLOW, 67.6' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
88	B-1	374+79 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
89	B-2	376+37 CL MOCCASIN WALLOW, 67.8' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
90	B-1	376+84 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
91	B-2	378+08 CL MOCCASIN WALLOW, 67.9' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
92	B-1	378+86 CL MOCCASIN WALLOW, 57.3' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32

POLE NO.	CIRCUIT	STATION & OFFSET	DIST. OR ARM	LUMINAIRE WATTAGE	DISTRIBUTION	HOUSE SIDE SHIELD	MOUNTING HEIGHT	FOUNDATION TYPE	PAY ITEM
93	B-4	380+37 CL MOCCASIN WALLOW, 70.2' RT	15'	98	TYPE II	NO	35'	STANDARD	715-4-32
94	B-3	380+81 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	YES	35'	STANDARD	715-4-32
95	B-4	382+70 CL MOCCASIN WALLOW, 70.3' RT	15'	98	TYPE II	NO	35'	STANDARD	715-4-32
96	B-3	382+69 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
97	B-3	384+39 CL MOCCASIN WALLOW, 57.5' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
98	B-4	384+66 CL MOCCASIN WALLOW, 67.3' RT	15'	136	TYPE IV	NO	35'	STANDARD	715-4-32
99	B-3	282+89 CL GATEWAY, 42.4' RT	15'	214	TYPE IV	NO	40'	STANDARD	715-4-13
100	B-4	280+45 CL 49TH AVE E, 62.4' RT	15'	136	TYPE III	NO	35'	STANDARD	715-4-32
101	B-4	386+06 CL MOCCASIN WALLOW, 76.4' RT	15'	136	TYPE IV	NO	35'	STANDARD	715-4-32
102	B-3	386+32 CL MOCCASIN WALLOW, 76.7' LT	15'	136	TYPE III	NO	35'	STANDARD	715-4-32
103	B-4	386+65 CL MOCCASIN WALLOW, 56.3' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
104	B-3	387+06 CL MOCCASIN WALLOW, 105.9' LT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
105	B-4	387+94 CL MOCCASIN WALLOW, 56.4' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
106	B-3	388+63 CL MOCCASIN WALLOW, 106.3' LT	15'	136	TYPE IV	NO	35'	STANDARD	715-4-32
107	B-4	389+22 CL MOCCASIN WALLOW, 59.4' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
108	B-3	390+05 CL MOCCASIN WALLOW, 106.6' LT	15'	136	TYPE IV	NO	35'	STANDARD	715-4-32
109	B-4	390+44 CL MOCCASIN WALLOW, 69.4' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
110	B-3	391+51 CL MOCCASIN WALLOW, 106.0' LT	15'	136	TYPE IV	NO	35'	STANDARD	715-4-32
111	B-4	392+06 CL MOCCASIN WALLOW, 76.0' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
112	B-3	392+86 CL MOCCASIN WALLOW, 104.1' LT	15'	136	TYPE IV	NO	35'	STANDARD	715-4-32
113	B-4	393+15 CL MOCCASIN WALLOW, 63.4' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
114	B-3	394+31 CL MOCCASIN WALLOW, 104.1' LT	15'	136	TYPE IV	NO	35'	STANDARD	715-4-32
115	B-4	394+29 CL MOCCASIN WALLOW, 67.9' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
116	B-3	395+71 CL MOCCASIN WALLOW, 103.0' LT	15'	136	TYPE IV	NO	35'	STANDARD	715-4-32
117	B-4	396+47 CL MOCCASIN WALLOW, 70.1' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
118	B-3	397+13 CL MOCCASIN WALLOW, 102.0' LT	15'	136	TYPE IV	NO	35'	STANDARD	715-4-32
119	B-4	398+33 CL MOCCASIN WALLOW, 69.8' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
120	B-3	398+52 CL MOCCASIN WALLOW, 101.0' LT	15'	136	TYPE IV	NO	35'	STANDARD	715-4-32
121	B-3	399+98 CL MOCCASIN WALLOW, 97.0' LT	15'	136	TYPE IV	NO	35'	STANDARD	715-4-32
122	B-4	400+20 CL MOCCASIN WALLOW, 69.6' RT	15'	98	TYPE III	NO	35'	STANDARD	715-4-32
123	B-3	400+94 CL MOCCASIN WALLOW, 66.2' LT	15'	136	TYPE IV	NO	35'	STANDARD	715-4-32

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		LIGHTING DATA TABLE	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
---	---	---	---		MOCCASIN WALLOW RD	6092560		L-9



MATCHLINE STA. - 302+80.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
CARDNO
3905 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA 33578
CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

LIGHTING PLAN (1)

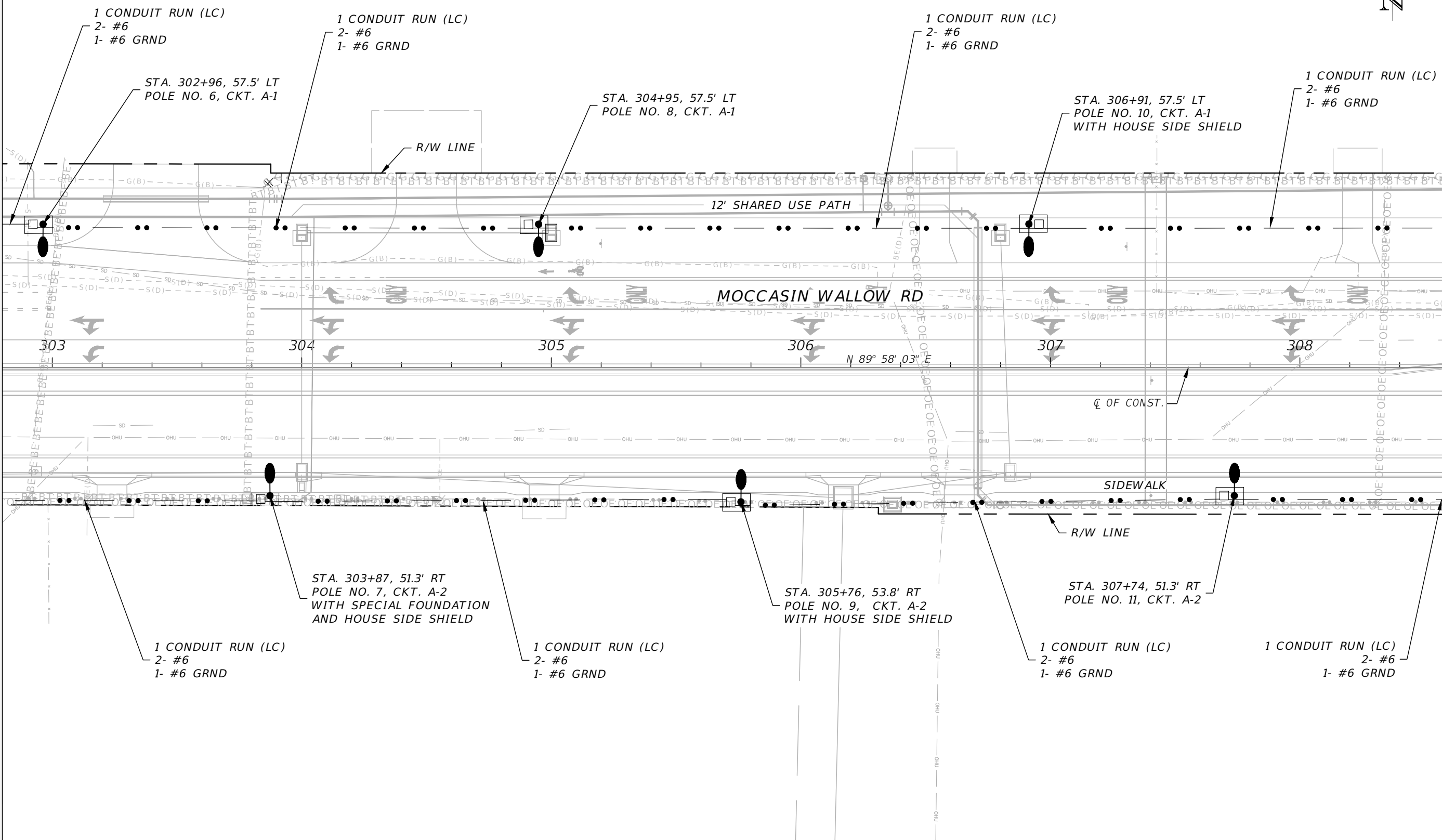
SHEET NO.
L-10

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



MATCHLINE STA. - 302+80.00

MATCHLINE STA. - 308+60.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID J. ALLEN, P.E.
 P.E. LICENSE NUMBER 58540
 CARDNO
 3905 CRESCENT PARK DRIVE
 RIVERVIEW, FLORIDA 33578
 CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

LIGHTING PLAN (2)

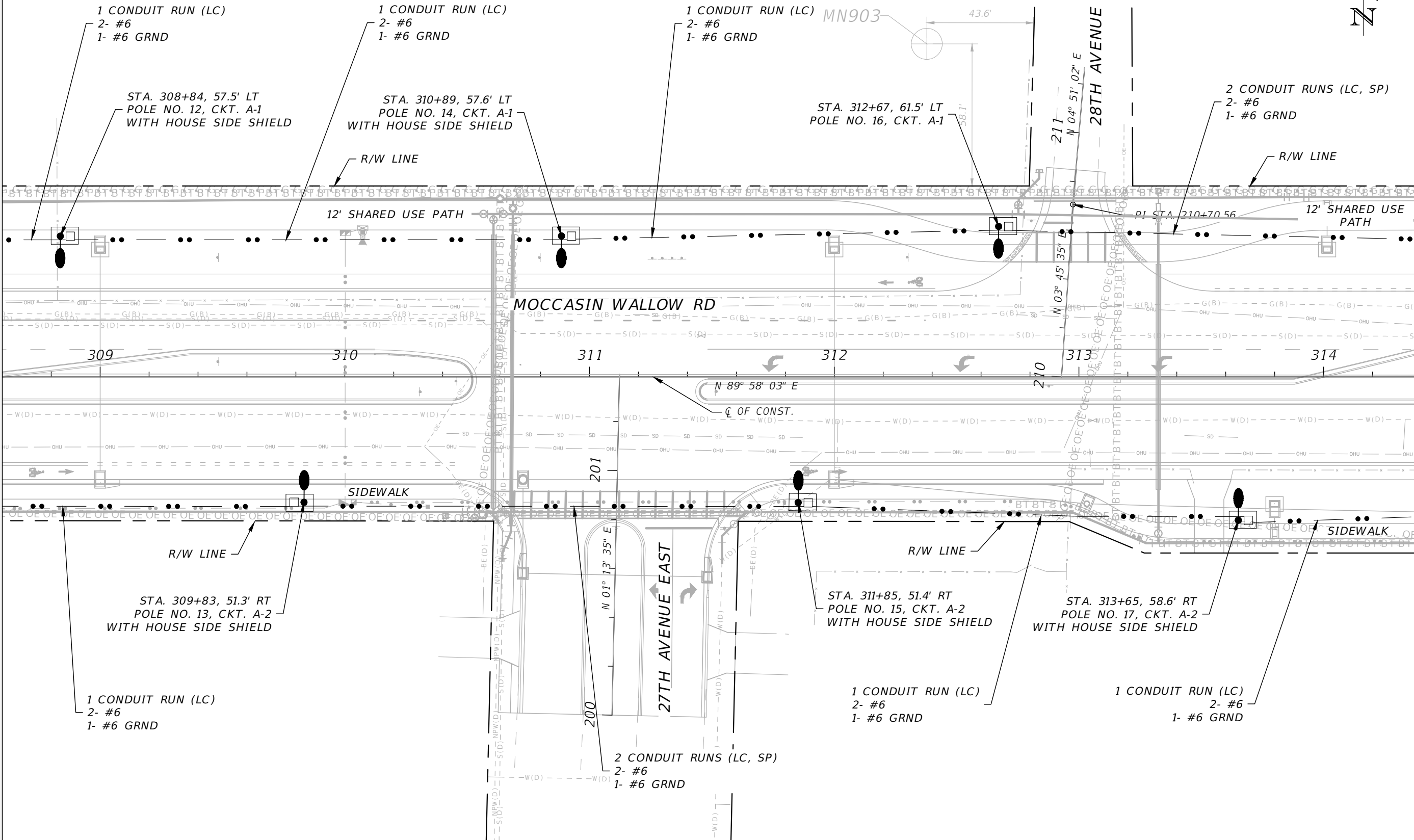
SHEET NO.
L-11

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



MATCHLINE STA. - 308+60.00

MATCHLINE STA. - 314+40.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

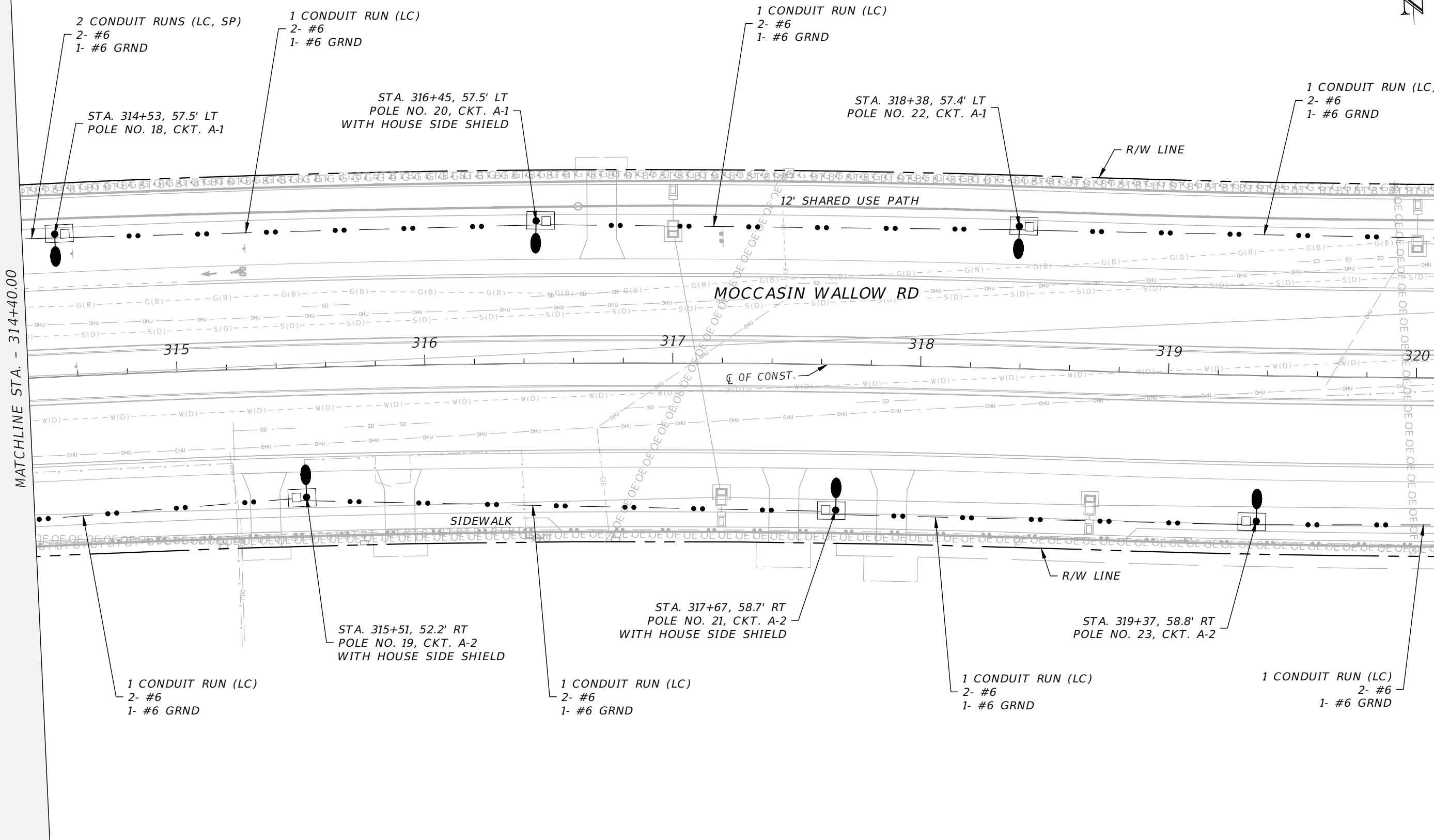
DAVID J. ALLEN, P.E.
 P.E. LICENSE NUMBER 58540
 CARDNO
 3905 CRESCENT PARK DRIVE
 RIVERVIEW, FLORIDA 33578
 CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

LIGHTING PLAN (3)

SHEET NO.
L-12

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

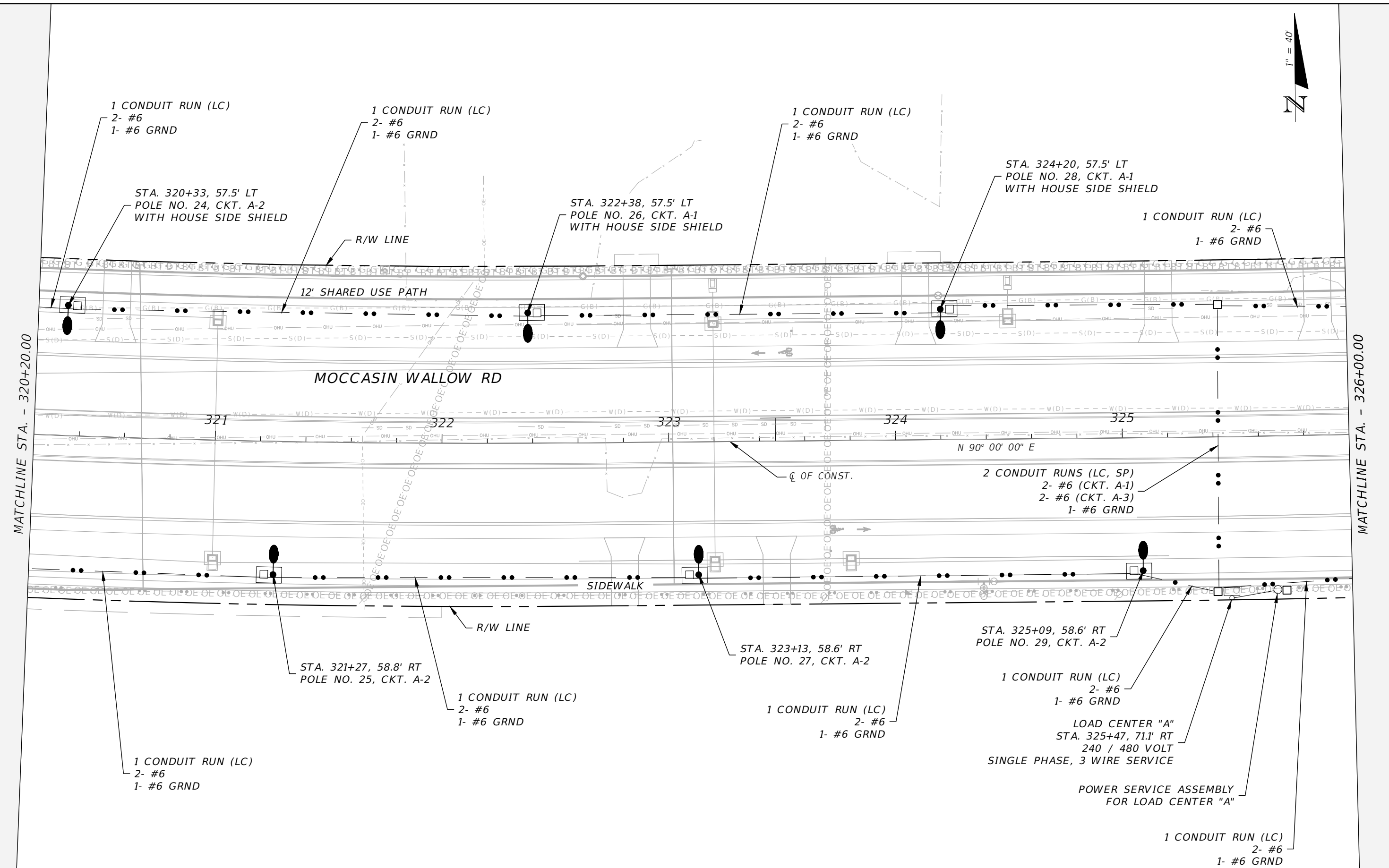
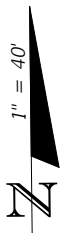


MATCHLINE STA. - 314+40.00

MATCHLINE STA. - 320+20.00

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

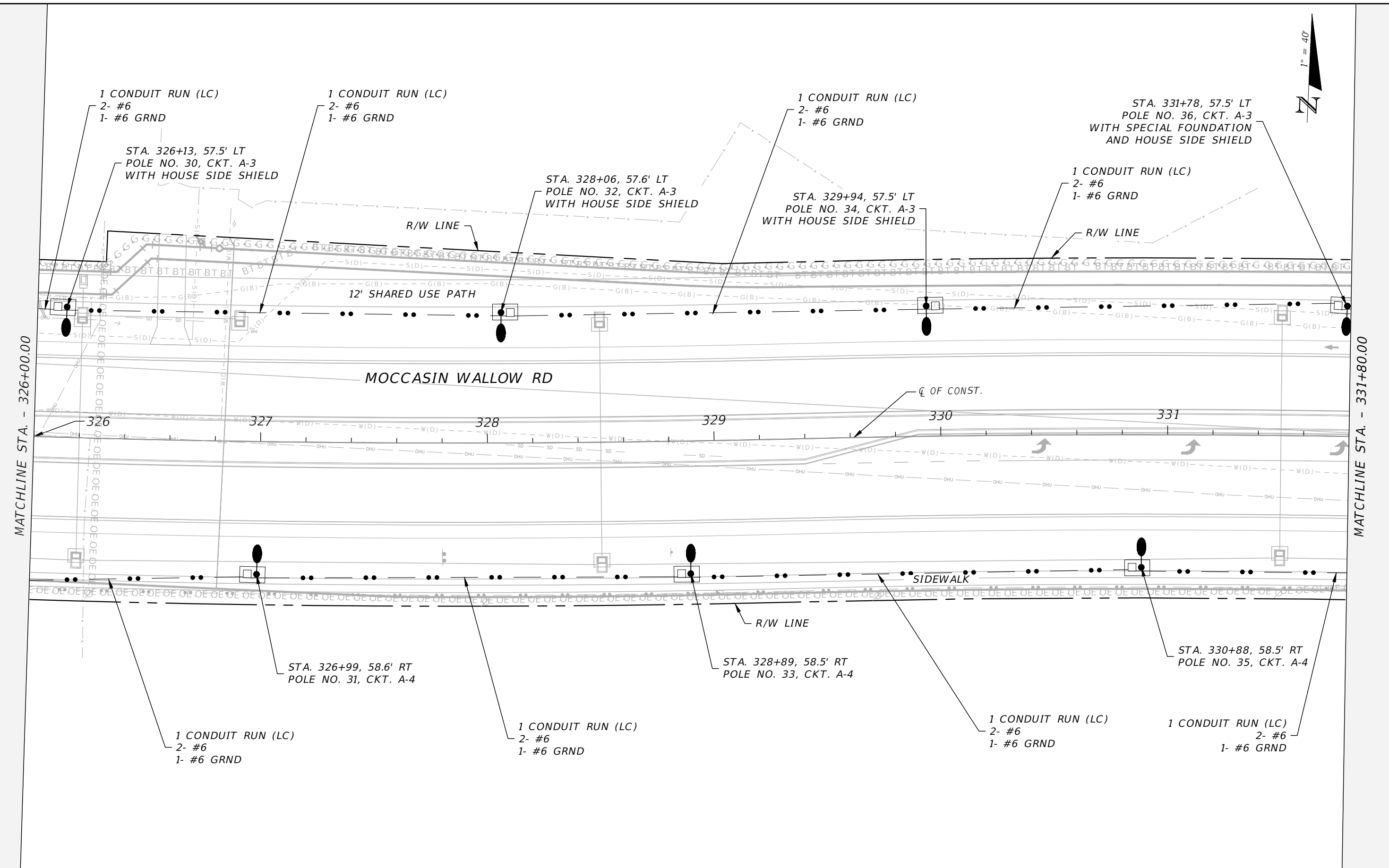
REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		LIGHTING PLAN (4)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
---	---	---	---		MOCCASIN WALLOW RD	6092560		L-13



REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		SHEET NO. L-14
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID	
					MOCCASIN WALLOW RD	6092560	

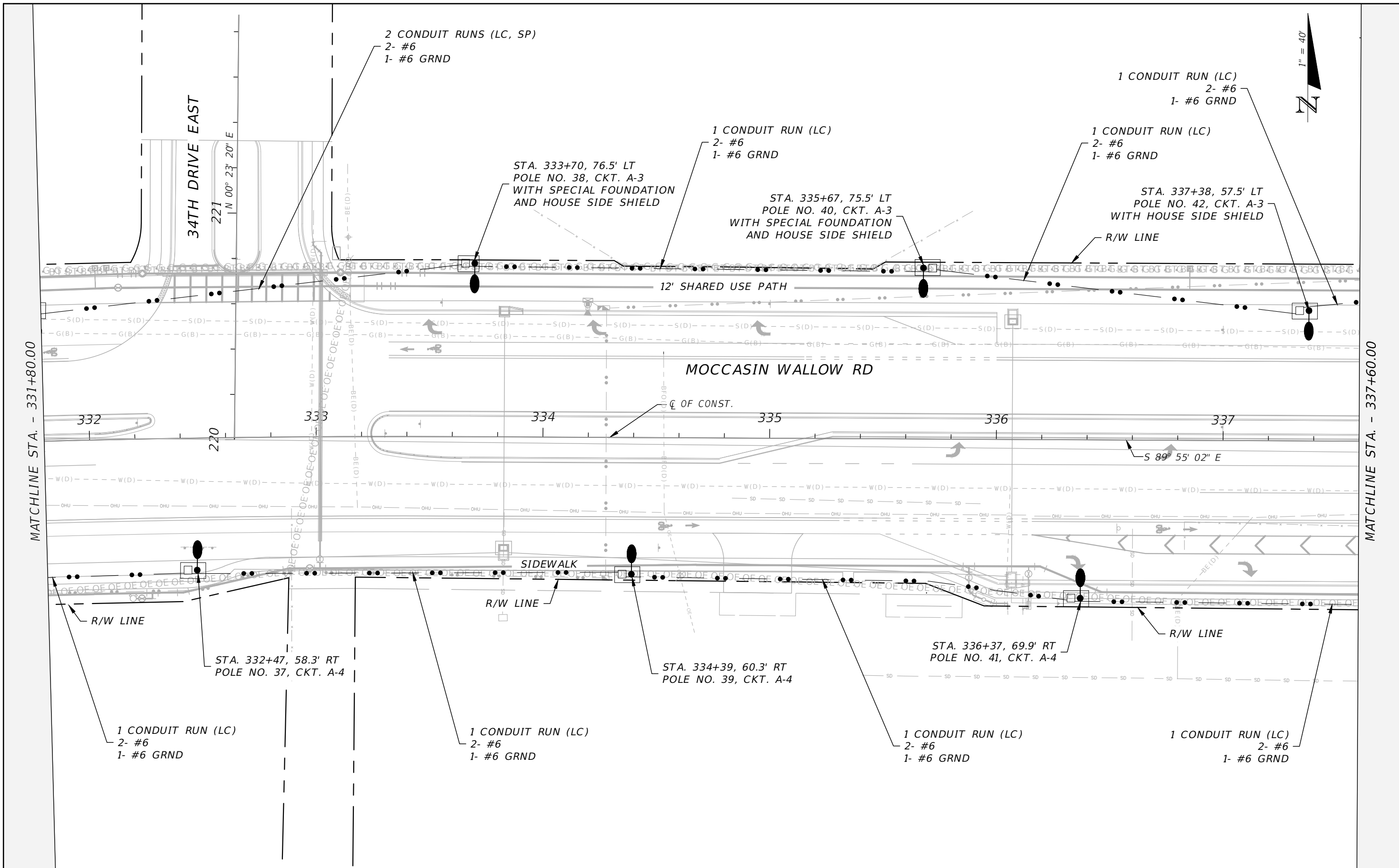
LIGHTING PLAN (5)

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



REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		SHEET NO. L-15
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO. MOCCASIN WALLOW RD	PROJECT ID 6092560	
						LIGHTING PLAN (6)	

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



MATCHLINE STA. - 331+80.00

MATCHLINE STA. - 337+60.00

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

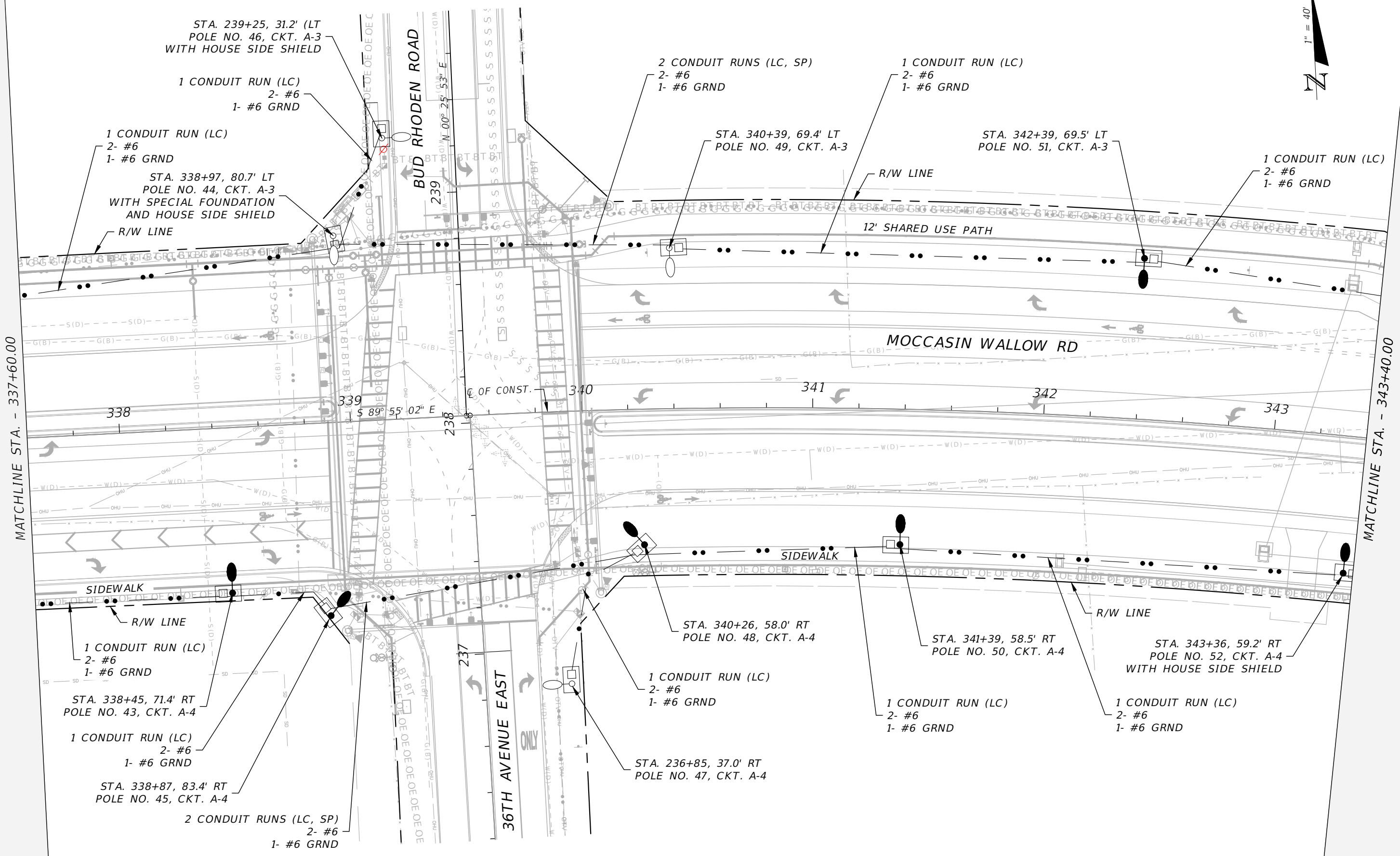
DAVID J. ALLEN, P.E.
 P.E. LICENSE NUMBER 58540
 CARDNO
 3905 CRESCENT PARK DRIVE
 RIVERVIEW, FLORIDA 33578
 CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

LIGHTING PLAN (7)

SHEET NO.
L-16

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

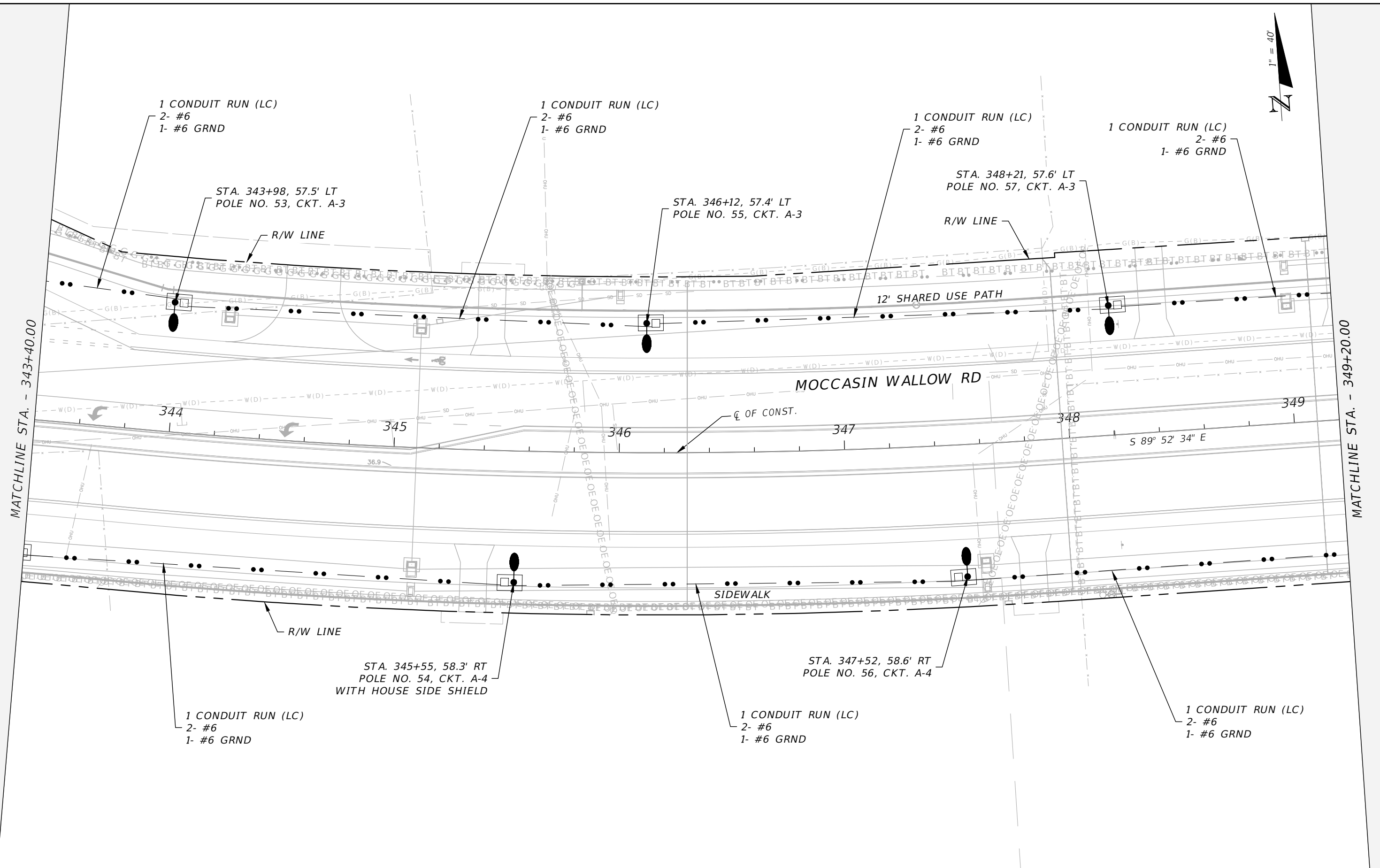
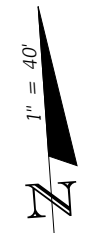
DAVID J. ALLEN, P.E.
 P.E. LICENSE NUMBER 58540
 CARDNO
 3905 CRESCENT PARK DRIVE
 RIVERVIEW, FLORIDA 33578
 CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

LIGHTING PLAN (8)

SHEET NO.
L-17

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

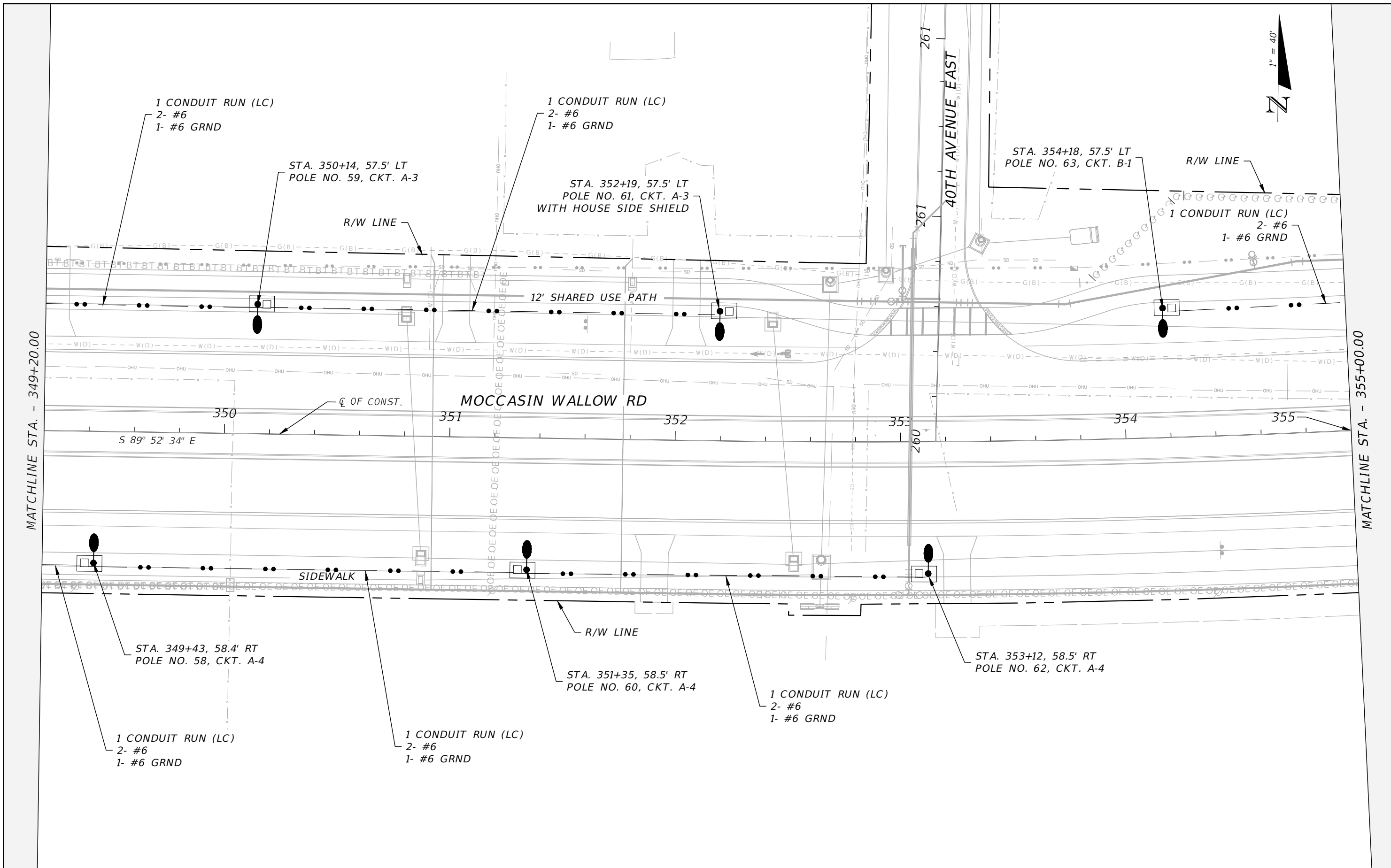
DAVID J. ALLEN, P.E.
 P.E. LICENSE NUMBER 58540
 CARDNO
 3905 CRESCENT PARK DRIVE
 RIVERVIEW, FLORIDA 33578
 CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

LIGHTING PLAN (9)

SHEET NO.
L-18

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



MATCHLINE STA. - 349+20.00

MATCHLINE STA. - 355+00.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
CARDNO
3905 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA 33578
CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

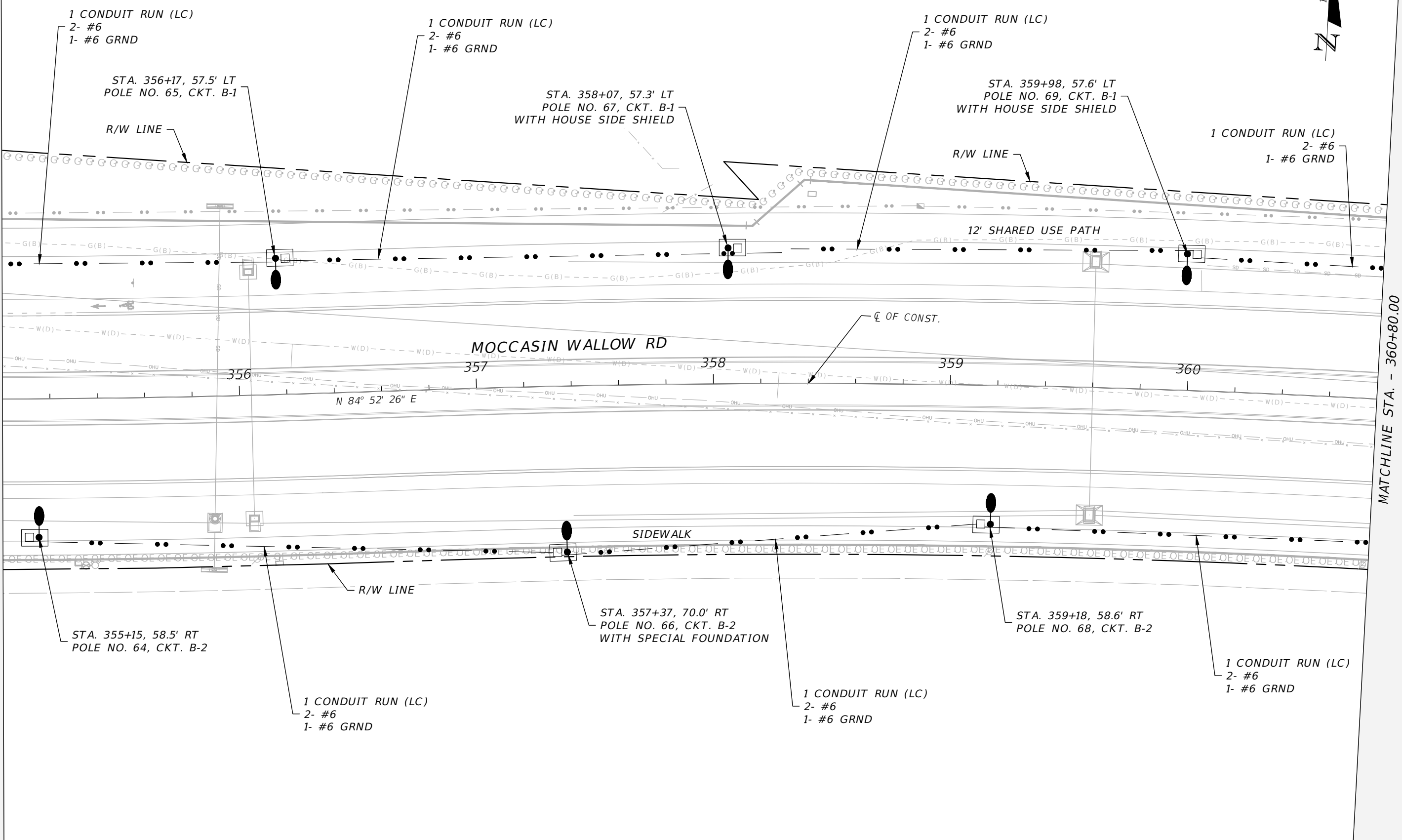
LIGHTING PLAN (10)

SHEET NO.
L-19



MATCHLINE STA. - 355+00.00

MATCHLINE STA. - 360+80.00



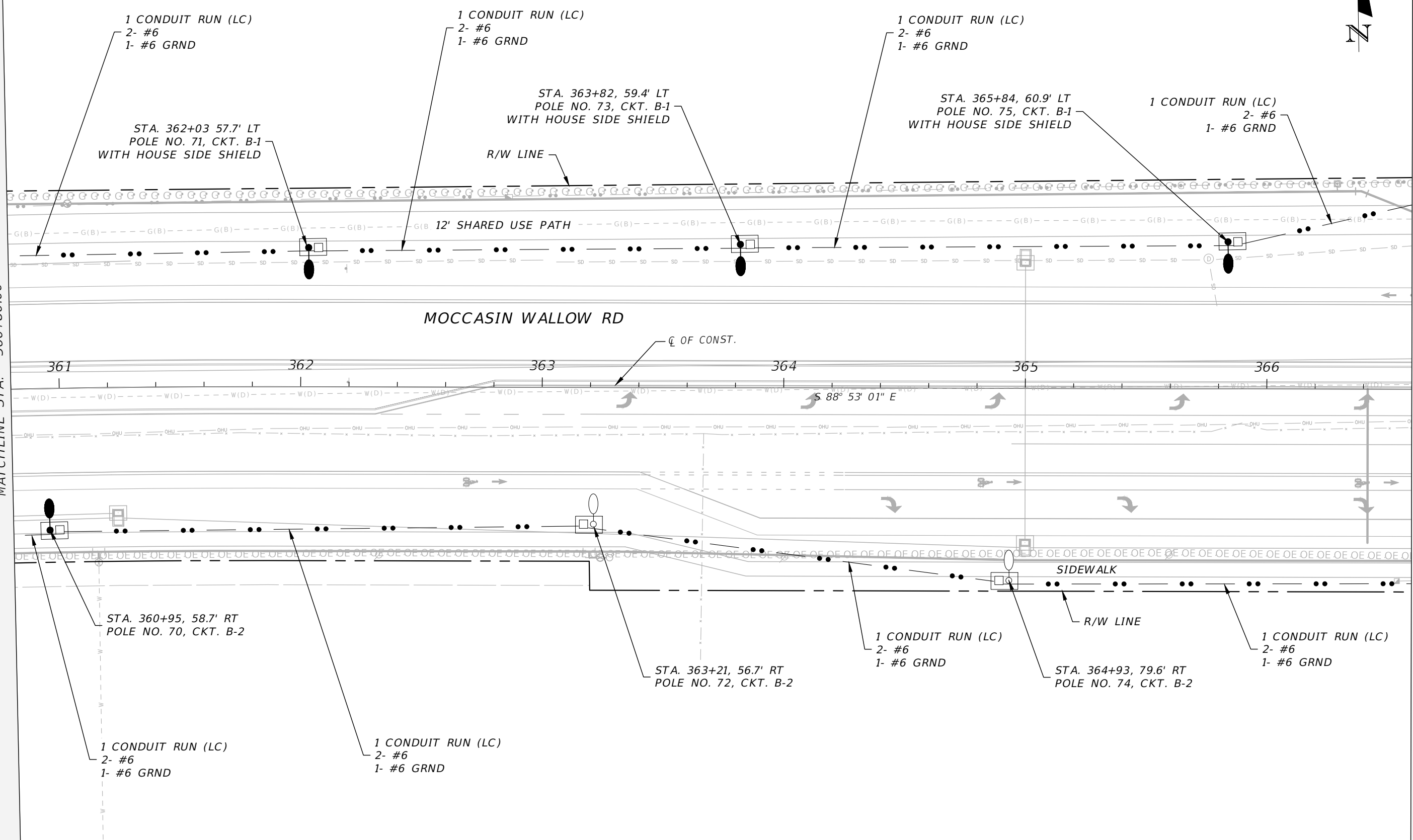
REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		LIGHTING PLAN (11)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		L-20
					MOCCASIN WALLOW RD	6092560		

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



MATCHLINE STA. - 360+80.00

MATCHLINE STA. - 366+60.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

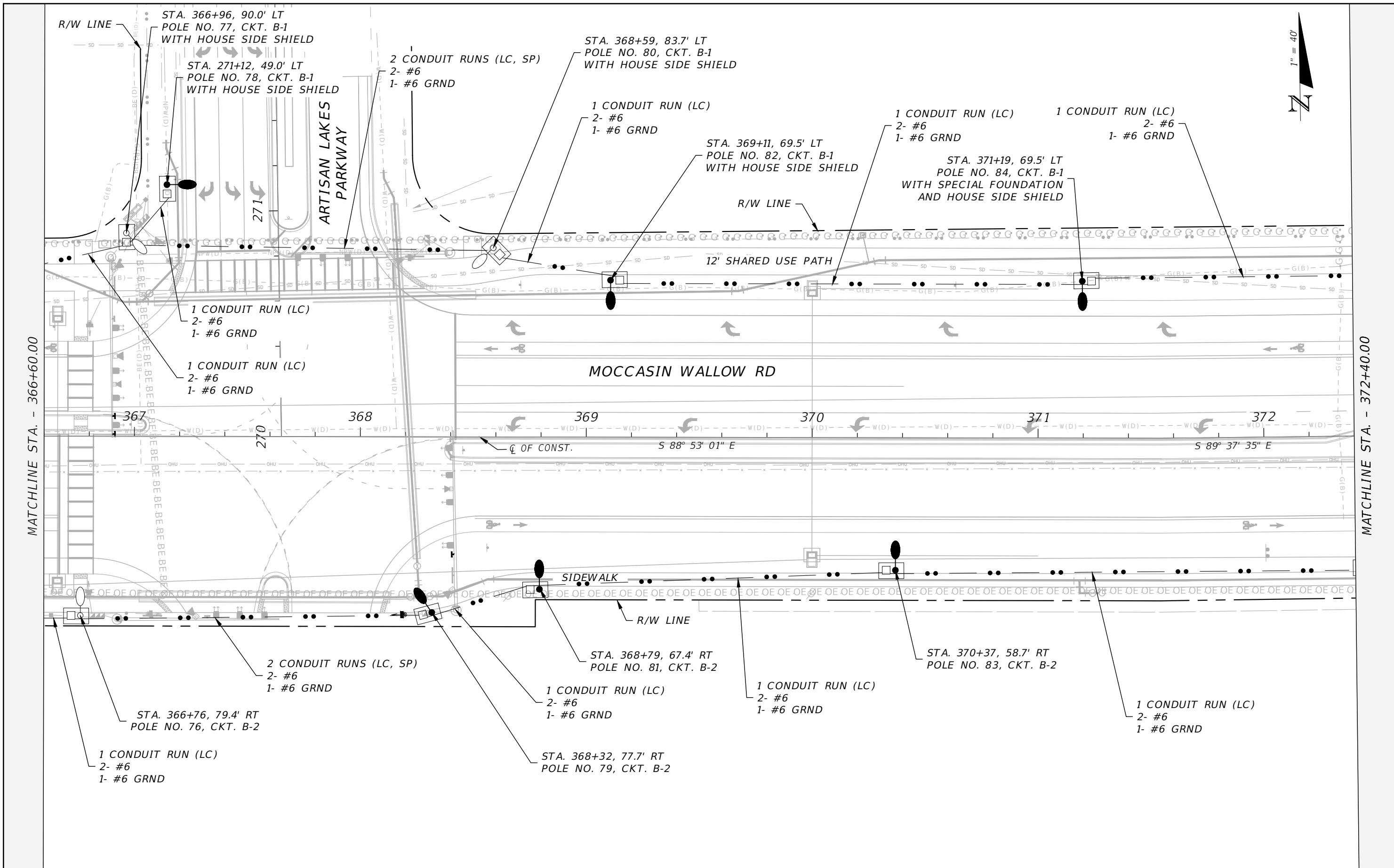
DAVID J. ALLEN, P.E.
 P.E. LICENSE NUMBER 58540
 CARDNO
 3905 CRESCENT PARK DRIVE
 RIVERVIEW, FLORIDA 33578
 CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

LIGHTING PLAN (12)

SHEET NO.
L-21

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



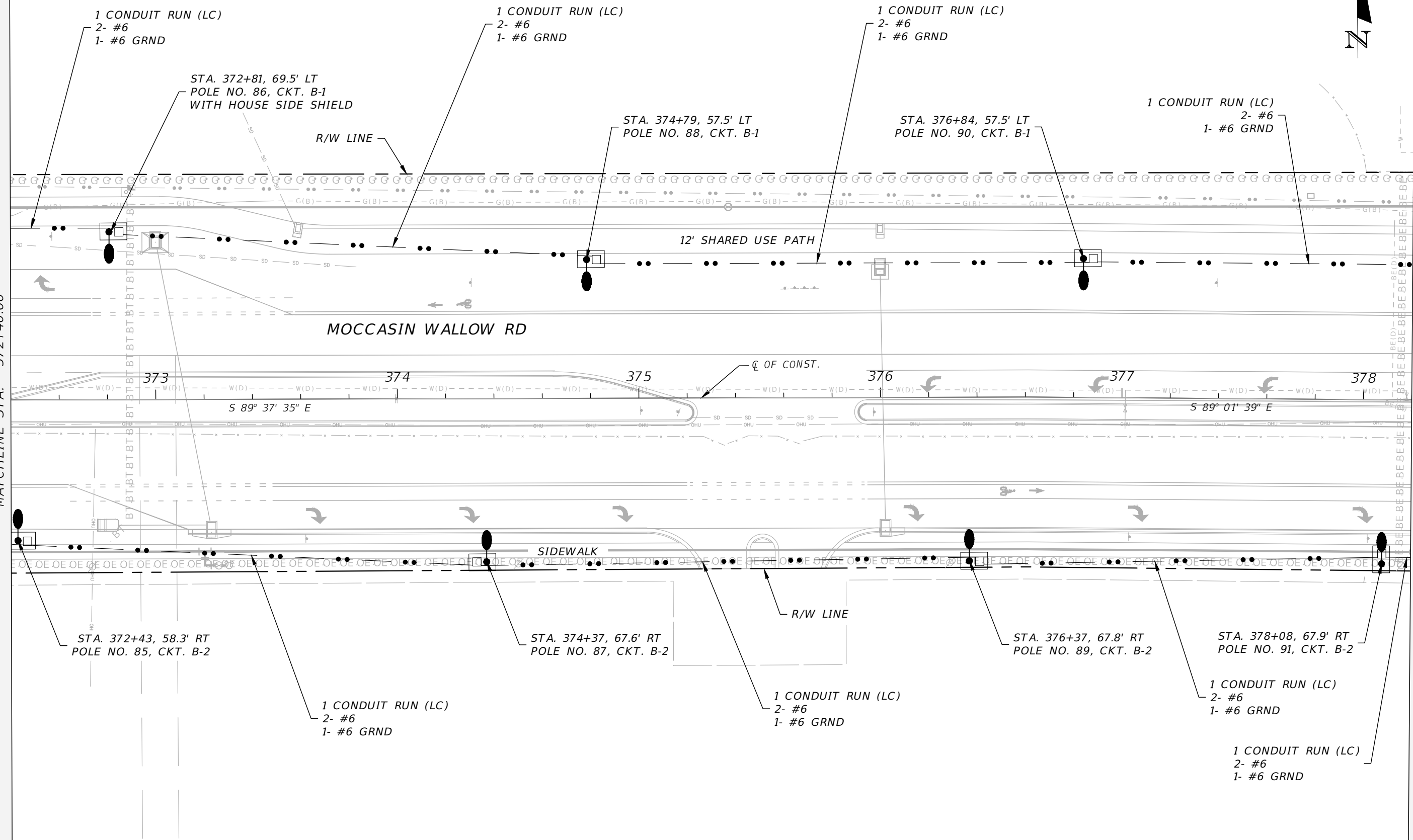
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		LIGHTING PLAN (13)	SHEET NO. L-22
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
					MOCCASIN WALLOW RD	6092560		



MATCHLINE STA. - 372+40.00

MATCHLINE STA. - 378+20.00



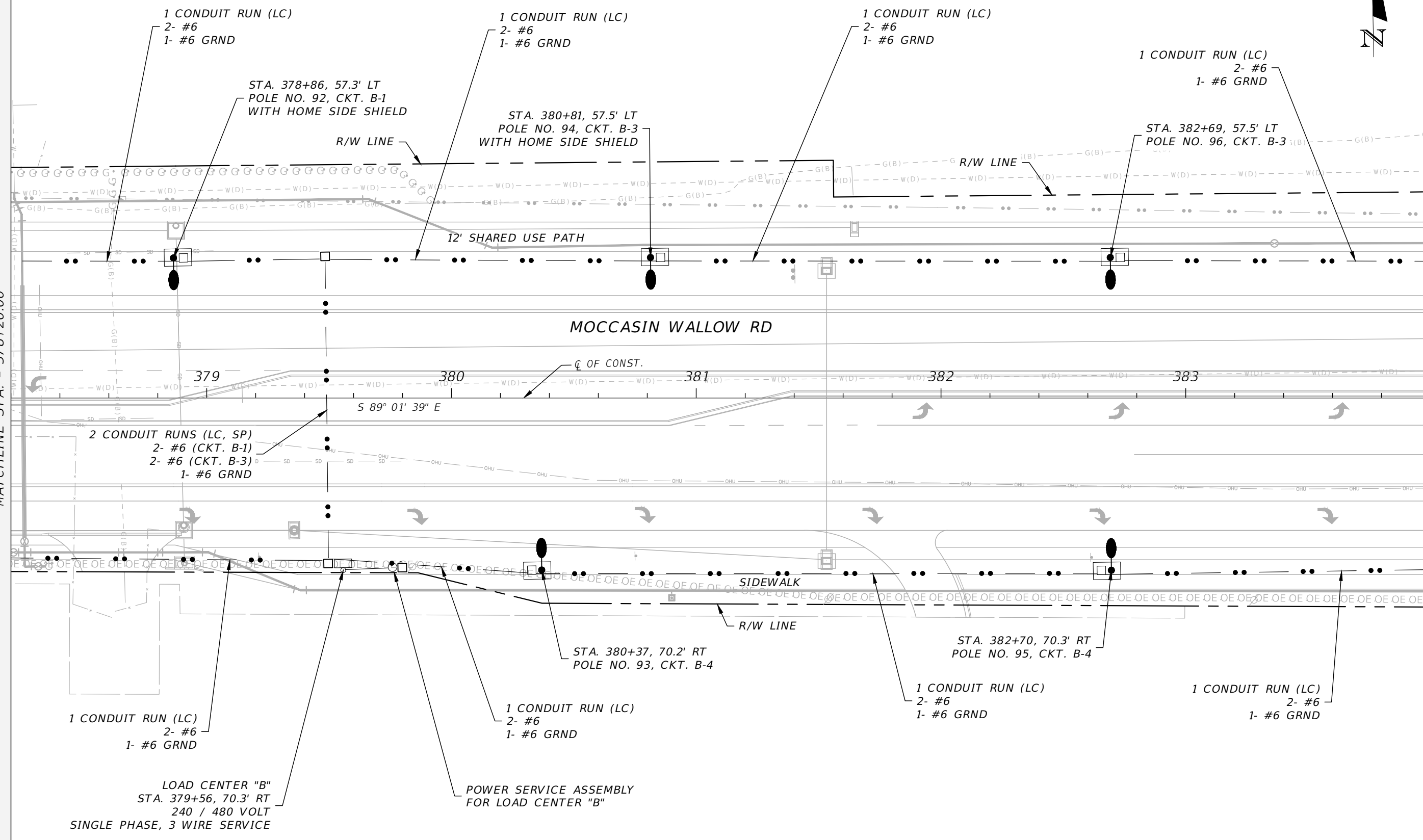
REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		LIGHTING PLAN (14)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		L-23
					MOCCASIN WALLOW RD	6092560		

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



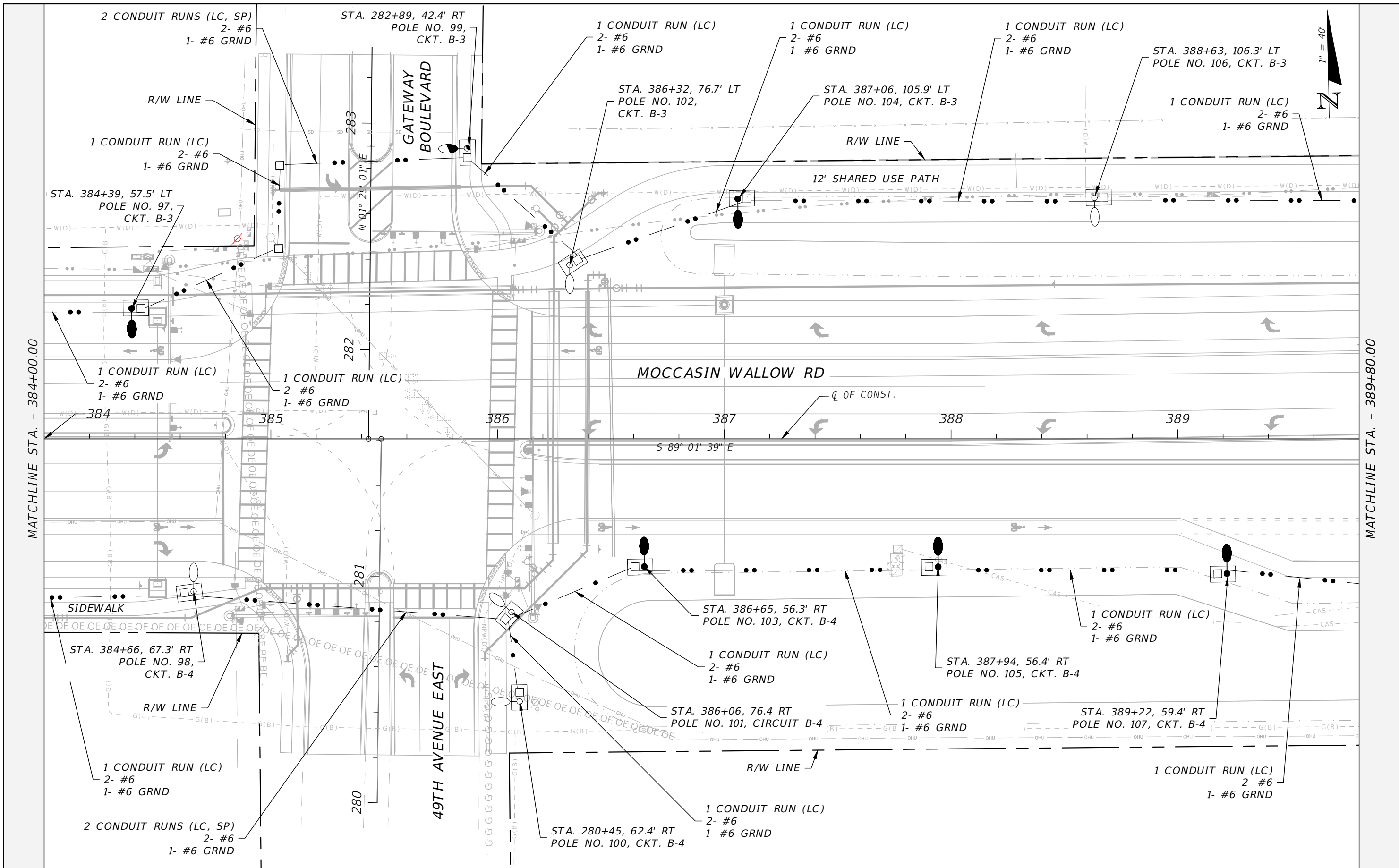
MATCHLINE STA. - 378+20.00

MATCHLINE STA. - 384+00.00



REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		SHEET NO. L-24
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO. MOCCASIN WALLOW RD	PROJECT ID 6092560	
						LIGHTING PLAN (15)	

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



MATCHLINE STA. - 384+00.00

MATCHLINE STA. - 389+80.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

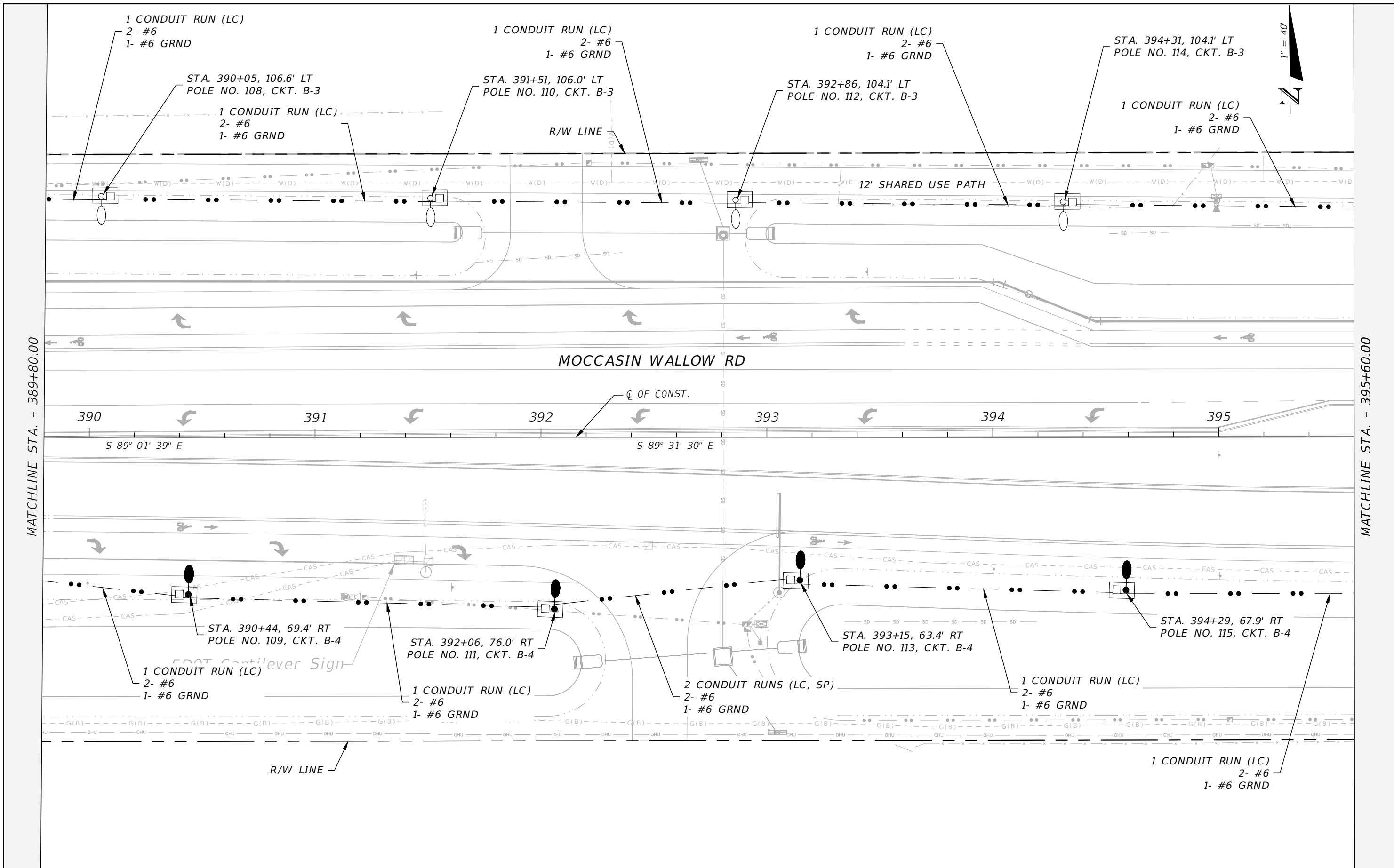
DAVID J. ALLEN, P.E.
 P.E. LICENSE NUMBER 58540
 CARDNO
 3905 CRESCENT PARK DRIVE
 RIVERVIEW, FLORIDA 33578
 CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

LIGHTING PLAN (16)

SHEET NO.
L-25

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

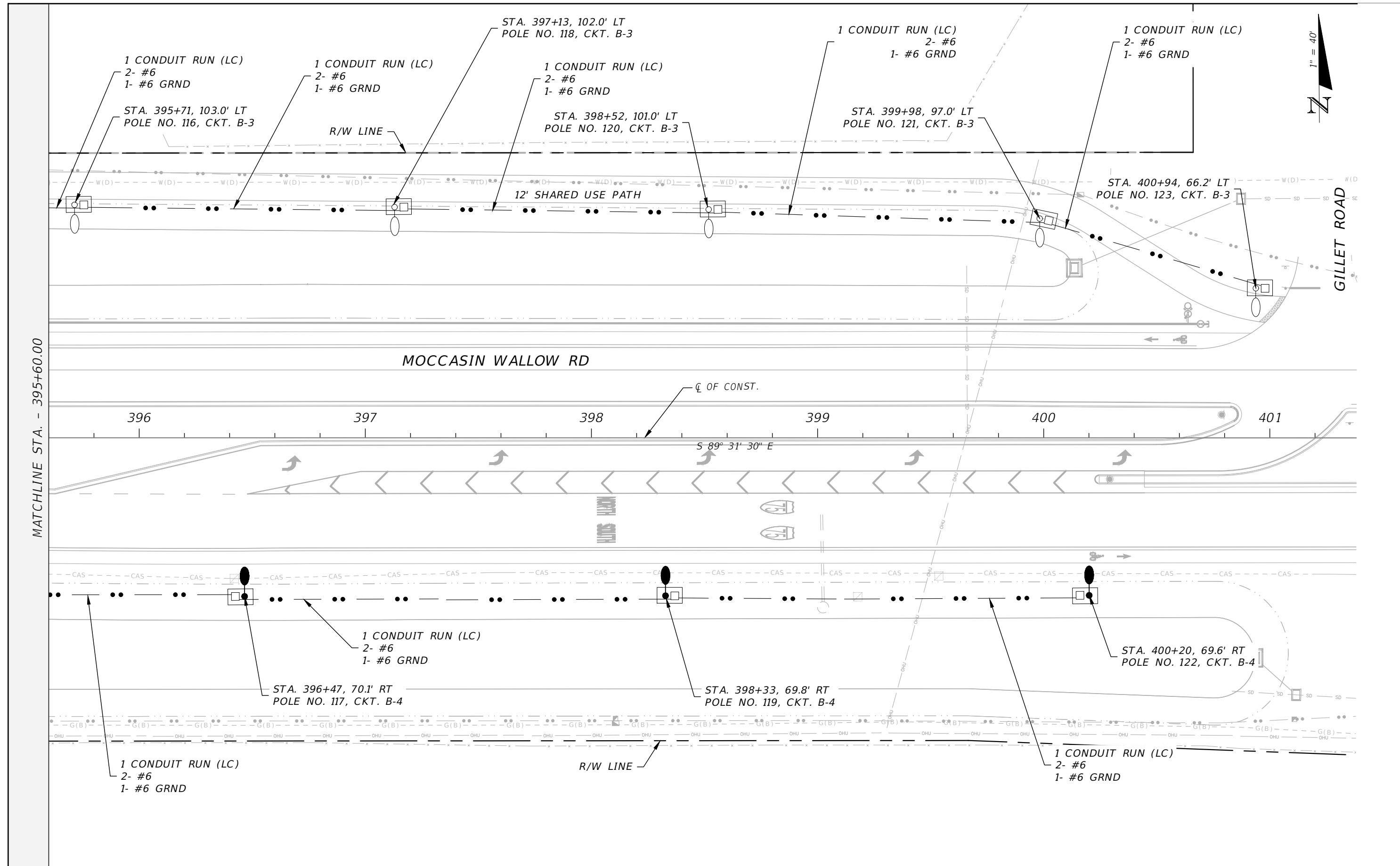


MATCHLINE STA. - 389+80.00

MATCHLINE STA. - 395+60.00

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

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		LIGHTING PLAN (17)	SHEET NO. L-26
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
					MOCCASIN WALLOW RD	6092560		



MATCHLINE STA. - 395+60.00

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		LIGHTING PLAN (18)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
					MOCCASIN WALLOW RD	6092560		L-27

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

PANEL "A" SCHEDULE

Panel ID: <u>Load Center "A"</u>	Main Breaker: <u>100 A</u>
Location: <u>Sta. 325+47, Offset: 71.1' Rt.</u>	Voltage: <u>240/480 V</u>
Mounting: <u>Surface</u>	Single Phase, 3-wire

	Circuit Description	Load (KVA)	Breaker	Pole	Bus	Pole	Breaker	Load (KVA)	Circuit Description	
1	A-1	0.980	20	2	A	2	20	1.169	A-3	2
3	↓	0.980			B			1.169	↓	4
5	A-2	1.048	20	2	A	2	20	1.184	A-4	6
7	↓	1.048			B			1.184	↓	8
9					A					10
11					B					12
13					A					14
15					B					16
17					A					18
19					B					20
21					A					22
23					B					24

NOTES

1. SAFETY SWITCH - 100 AMP F/A 100 AMP

TOTAL DEMAND 8.761 KVA
TOTAL DEMAND AMPS 18.25 AMPS

NO. OF POLES 62

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		LOAD CENTER PANEL SCHEDULE (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		L-28
					MOCCASIN WALLOW RD	6092560		

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

PANEL "B" SCHEDULE

Panel ID: <u>Load Center "B"</u>	Main Breaker: <u>100 A</u>
Location: <u>Sta. 379+56, Offset: 70.3' Rt.</u>	Voltage: <u>240/480 V</u>
Mounting: <u>Surface</u>	Single Phase, 3-wire

	Circuit Description	Load (KVA)	Breaker	Pole	Bus	Pole	Breaker	Load (KVA)	Circuit Description	
1	B-1	1.142	20	2	A	2	20	1.461	B-3	2
3	↓	1.142			B			1.461	↓	4
5	B-2	1.033	20	2	A	2	20	1.101	B-4	6
7	↓	1.033			B			1.101	↓	8
9					A					10
11					B					12
13					A					14
15					B					16
17					A					18
19					B					20
21					A					22
23					B					24

NOTES

1. SAFETY SWITCH - 100 AMP F/A 100 AMP

TOTAL DEMAND 9.473 KVA
TOTAL DEMAND AMPS 19.74 AMPS

NO. OF POLES 61

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		LOAD CENTER PANEL SCHEDULE (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		L-29
					MOCCASIN WALLOW RD	6092560		

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

STRUCTURE DESIGN SPECIFICATIONS:

FDOT STRUCTURES MANUAL DATED JANUARY 2021 AND SUBSEQUENT STRUCTURES TEMPORARY DESIGN BULLETINS.

AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS, EIGHTH EDITION, AND ALL SUBSEQUENT INTERIMS.

AASHTO LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, FIRST EDITIONS AND ALL SUBSEQUENT INTERIMS.

FDOT DESIGN MANUAL DATED JANUARY 2021 AND SUBSEQUENT ROADWAY DESIGN BULLETINS.

GOVERNING STANDARDS AND CONSTRUCTION SPECIFICATIONS:

FDOT FY 2021-22 STANDARD PLANS AND REVISED INDEX DRAWINGS AS APPENDED HEREIN AND JULY 2021 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS AMENDED BY CONTRACT DOCUMENTS.

DESIGN METHOD:

LOAD AND RESISTANCE FACTOR DESIGN LRFD METHOD FOR ALL ELEMENTS UNLESS OTHERWISE NOTED.

WIND LOADS:

300 YEAR EXTREME EVENT LIMIT STATE WITH A DESIGN 3-SECOND GUST WIND SPEED AT 140 MPH.

ENVIRONMENT:

EXTREMELY AGGRESSIVE.

CONCRETE:

CLASS II, MINIMUM 28 DAY COMPRESSIVE STRENGTH $f'_c = 3,400$ PSI.

CONCRETE COVER:

CONCRETE COVER SHOWN IN PLANS DOES NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE FDOT STANDARD SPECIFICATIONS FOR ALLOWABLE TOLERANCES. ALL DIMENSIONS PERTAINING TO LOCATIONS OF REINFORCING ARE TO CENTERLINE OF BARS EXCEPT WHERE THE CLEAR DIMENSION IS SHOWN TO FACE OF CONCRETE.

4" FOR EXTERNAL FORMED SURFACES.

4½" FOR EXTERNAL SURFACES CAST AGAINST EARTH.

REINFORCING STEEL:

ALL REINFORCEMENT BARS SHALL BE IN ACCORDANCE WITH FDOT STANDARD SPECIFICATIONS SECTION 931, GRADE 60.

GENERAL NOTES:

1. WORK LIGHT POLE SPREAD FOOTING DETAILS WITH STANDARD PLANS INDEX NO. 635-001 AND 715-002.
2. AT THE CONTRACTORS RISK, BASED ON THE EXISTING UTILITIES, A SPREAD FOOTING COULD BE SUBSTITUTED WITH A DRILLED SHAFT AS SHOWN IN FDOT STANDARD PLANS INDEX NO. 715-002 AT NO COST TO THE DEPARTMENT.
3. SOIL BELOW FOOTING IS ASSUMED TO HAVE A MINIMUM FACTORED BEARING RESISTANCE OF 900 PSF.
4. THE DESIGN WEIGHT OF LUMINAIRE IS 75 LBS AND THE EQUIPMENT PROJECTED AREA (EPA) OF THE LUMINAIRE IS 1.55 SQUARE FEET. THE MAXIMUM FIXTURE MOUNTING HEIGHT IS 50 FEET AND THE FIXTURE ARM LENGTH IS 10 FEET. THE DESIGN IS ONLY APPLICABLE FOR SINGLE ARMS.

GENERAL NOTES (CONTINUED):

5. THE CAST-IN-PLACE CONCRETE FOOTINGS SHOWN MAY BE SUBSTITUTED FOR PRECAST FOOTINGS PROVIDED THAT THE FOLLOWING REQUIREMENTS ARE MET.

A. EACH PRECAST CONCRETE FOOTING SHALL BE MARKED SHOWING THE CASTING DATE AND IDENTIFICATION LETTERS OR NUMBERS.

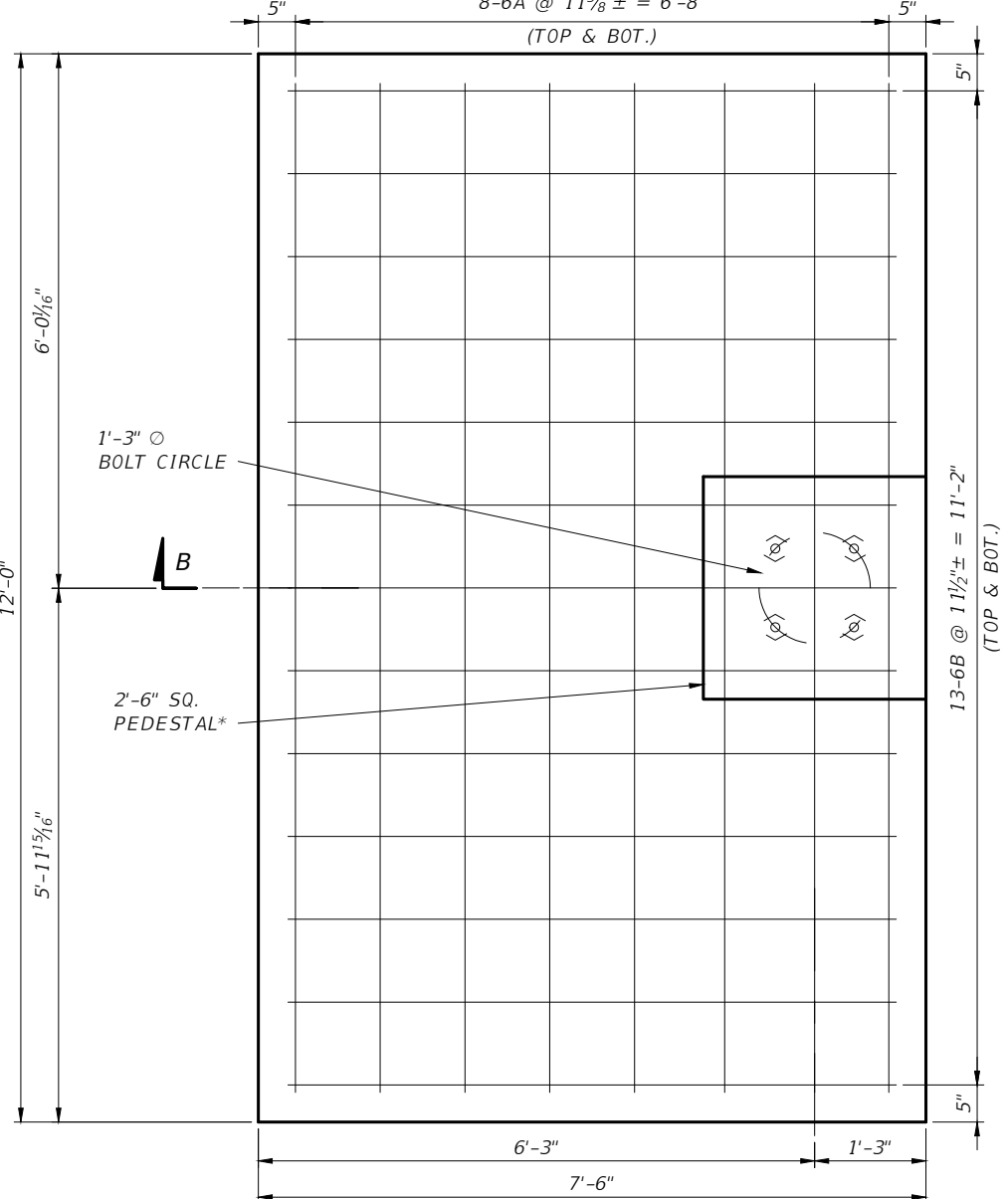
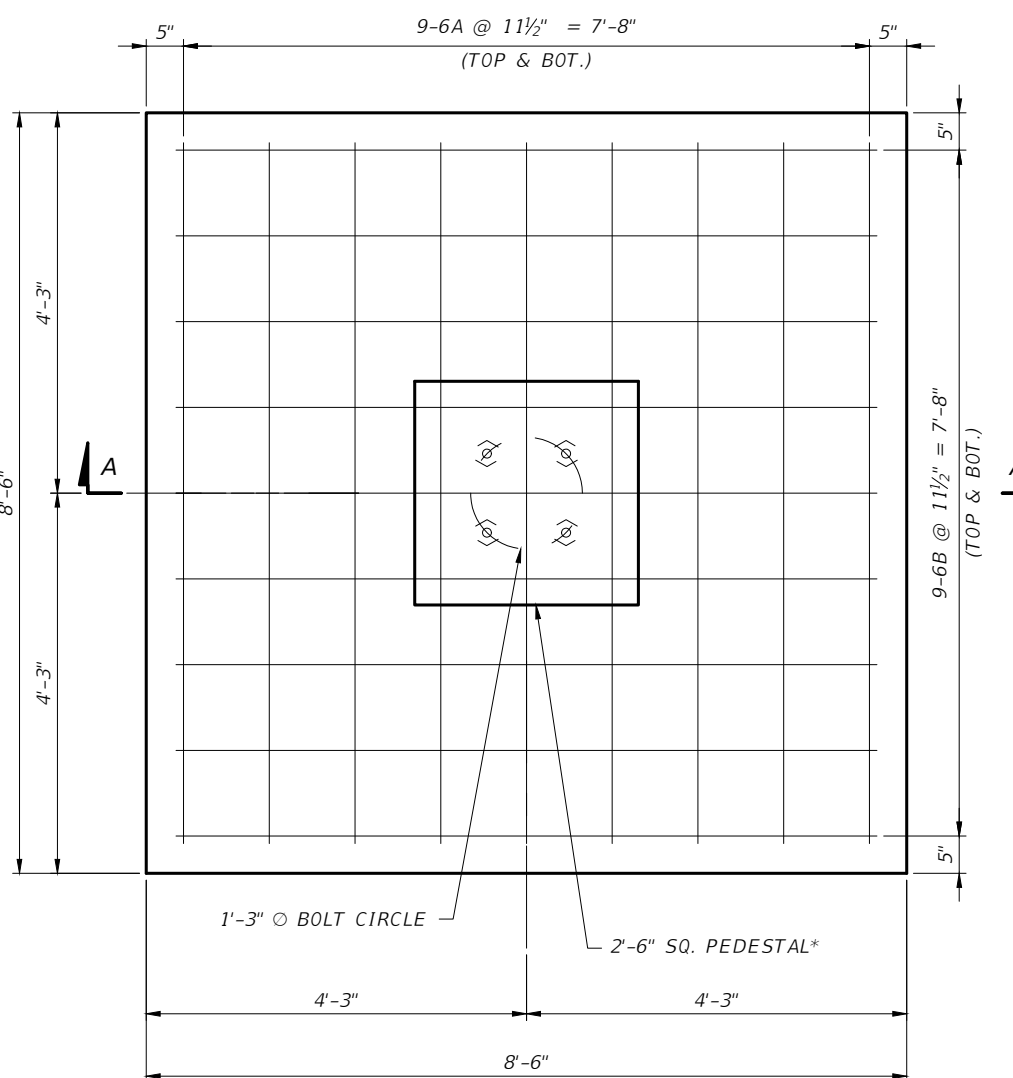
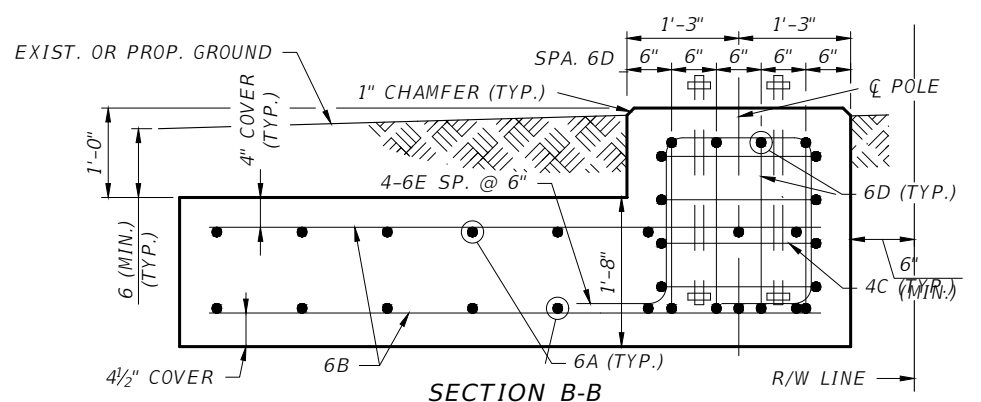
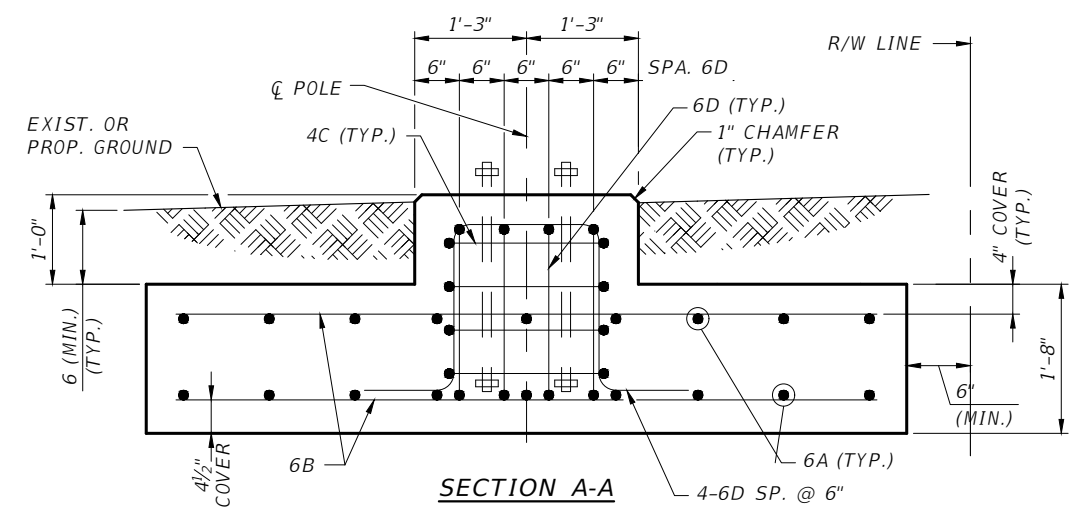
B. PRECAST CONCRETE FOOTINGS SHALL BE PLACED ON DRY LEVEL GROUND WITH UNIFORM BEARING CONTACT ACROSS THE FOOTING. ANCHOR BOLTS SHALL BE PLUMB AFTER FINAL PLACEMENT.

C. WELDED WIRE REINFORCEMENT MEETING FDOT STANDARD SPECIFICATIONS SECTION 931 MAY BE USED BASED ON AN EQUAL AREA SUBSTITUTION OF THE REINFORCING STEEL SHOWN.

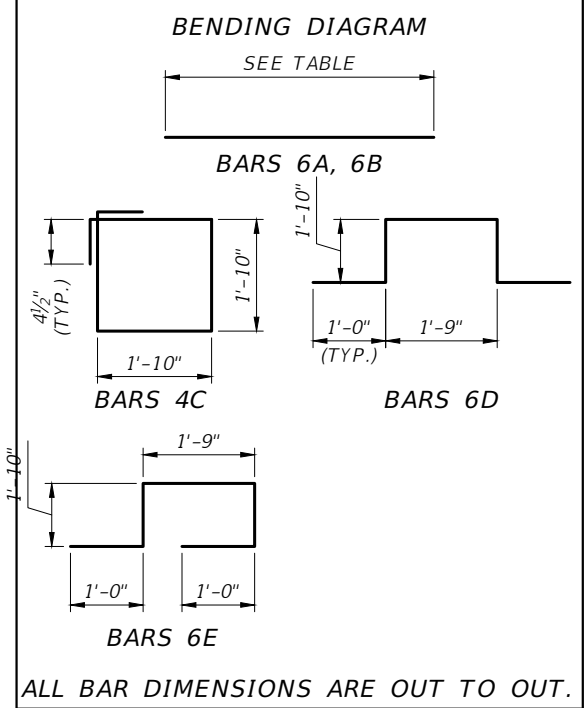
D. THE PRECAST FOOTING IS DESIGNED FOR ALL LOADS ASSOCIATED WITH LIFTING, HANDLING, AND TRANSPORTATION.

E. SUBMIT SHOP DRAWINGS OF THE PRECAST FOOTINGS FOR REVIEW AND ACCEPTANCE PRIOR TO CONSTRUCTION. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF FLORIDA.

REVISIONS				CHRISTOPHER P. GAMACHE, P.E. P.E. LICENSE NUMBER 82122 CARDNO 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		LIGHT POLE SPECIAL FOUNDATION (1)	SHEET NO. L-30
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
----	----				MOCCASIN WALLOW RD	6092560		



BILL OF REINFORCING STEEL			
LIGHT POLE SPREAD FOOTING (CASE 1)			
SIZE	MARK	NO. REQ'D	LENGTH
6	A	18	7'-10"
6	B	18	7'-10"
4	C	4	8'-1"
6	D	8	7'-5"
LIGHT POLE SPREAD FOOTING (CASE 2)			
6	A	16	11'-4"
6	B	26	6'-10"
4	C	4	8'-1"
6	D	4	7'-5"
6	E	4	7'-5"



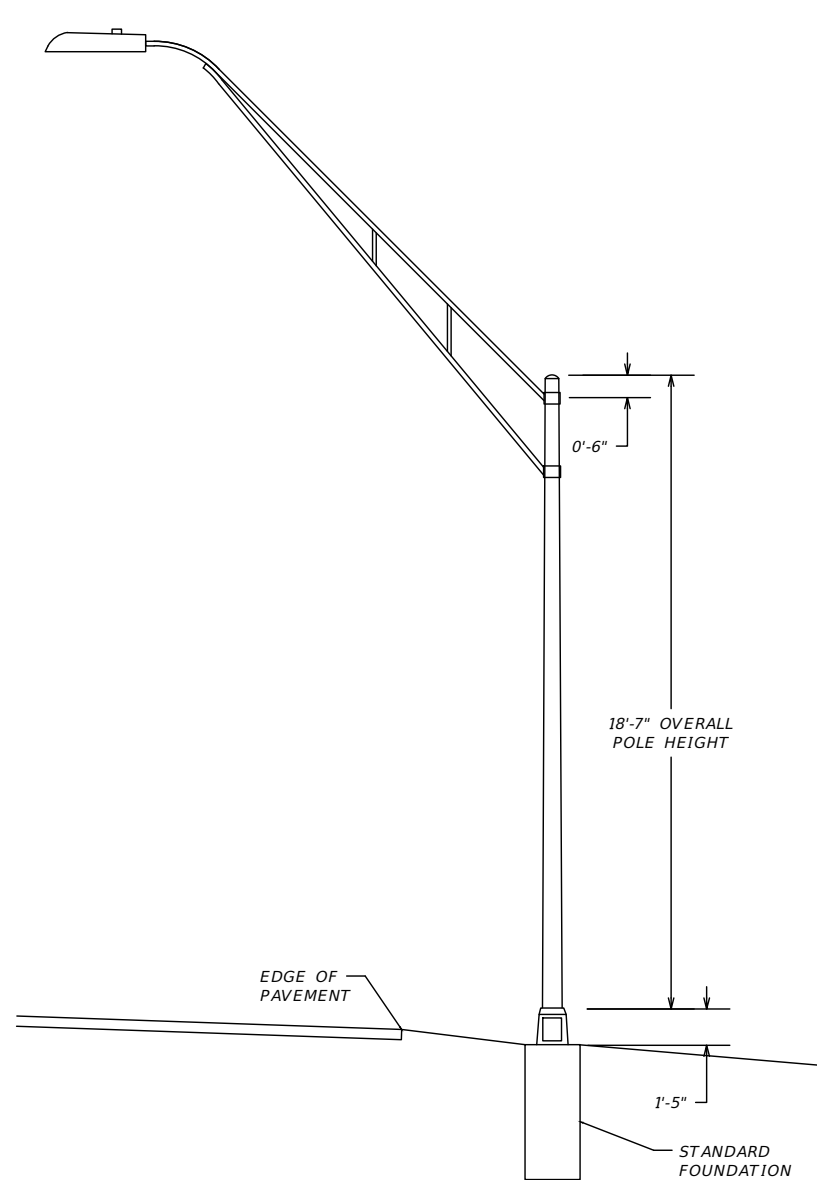
LIGHT POLE SPREAD FOOTING PLAN (CASE 1)

LIGHT POLE SPREAD FOOTING PLAN (CASE 2)

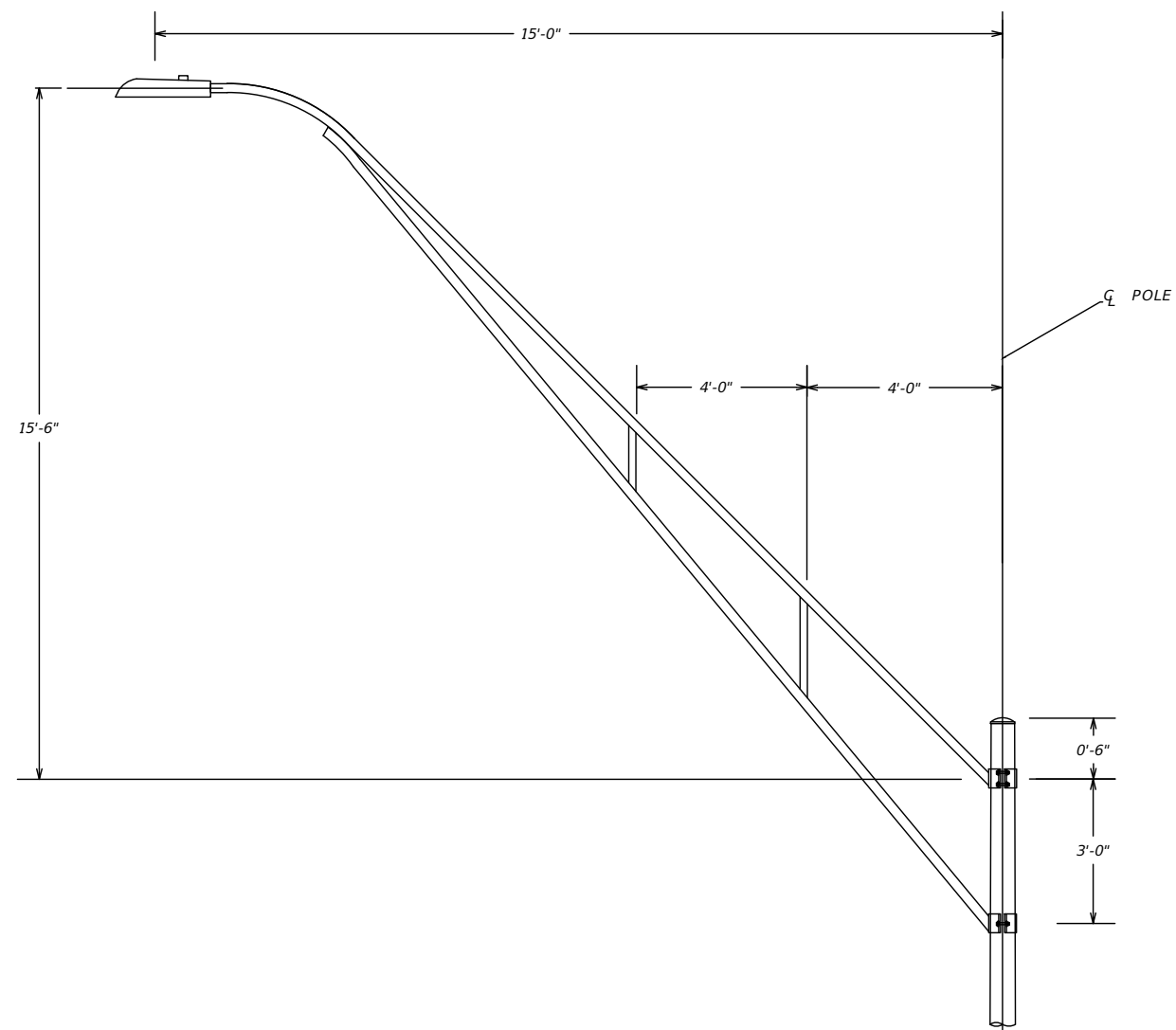
*PEDESTAL REINFORCEMENT NOT SHOWN FOR CLARITY

REVISIONS				CHRISTOPHER P. GAMACHE, P.E. P.E. LICENSE NUMBER 82122 CARDNO 380 PARK PLACE BOULEVARD, SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		LIGHT POLE SPECIAL FOUNDATION (2)	SHEET NO. L-31
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
---	---	---	---		MOCCASIN WALLOW RD	6092560		

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



**UTILITY CONFLICT
LIGHT POLE**
NTS

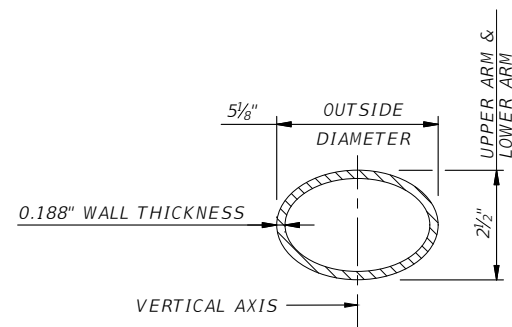


**LUMINAIRE
ARM ELEVATION**
NTS

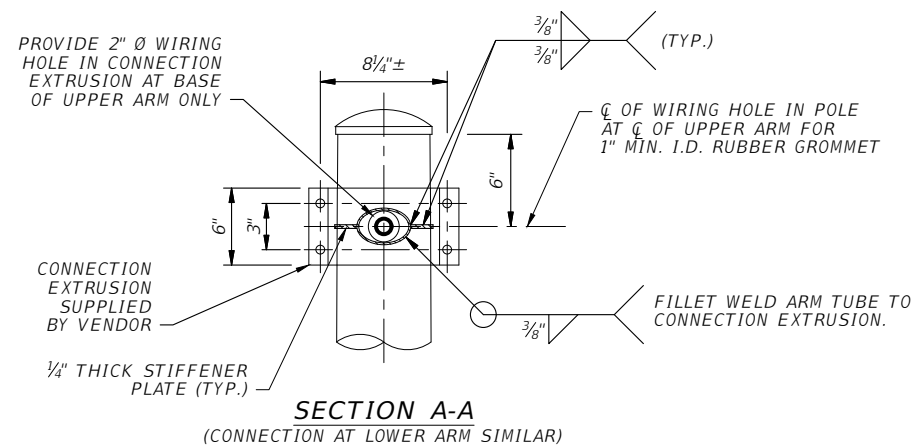
NOTES:

1. THE UTILITY CONFLICT LIGHT POLE AND BRACKET ARM SHALL USE THE SAME MATERIAL AS SPECIFIED IN THE FDOT STANDARD PLANS AND SPECIFICATIONS.
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS INCLUDING STRUCTURAL CALCULATIONS FOR THE POLE, FOUNDATION TYPES AND BRACKET ARM.
3. THE LIGHT POLE SHALL HAVE A WIND LOAD OF 140 MPH.

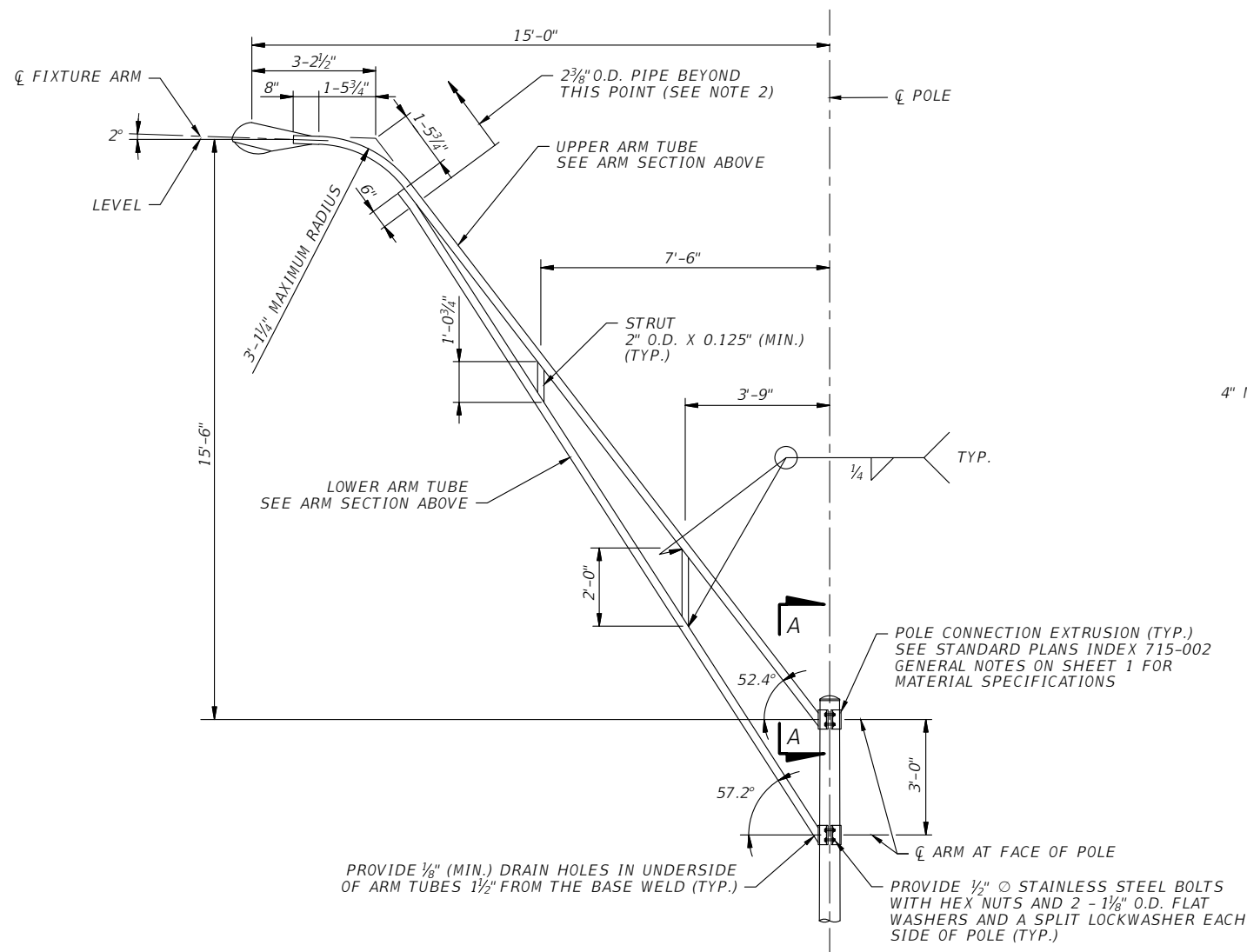
REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		UTILITY CONFLICT LIGHT POLE DETAILS (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		L-32
---	---	---	---		MOCCASIN WALLOW RD	6092560		



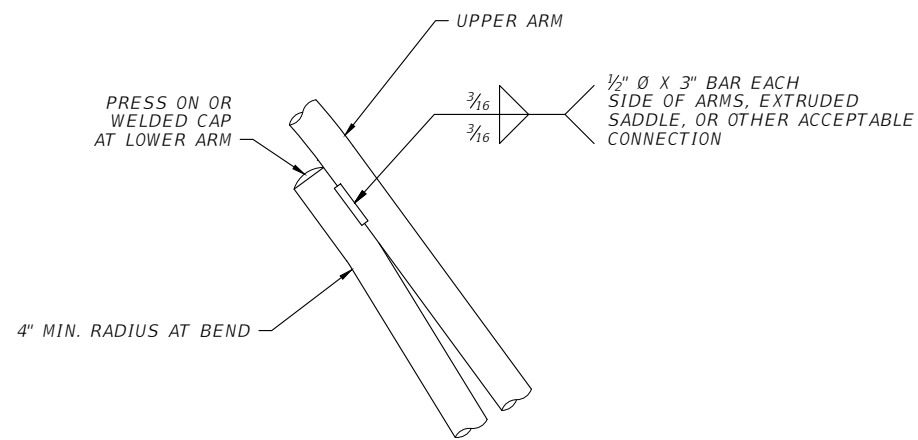
ARM SECTION



SECTION A-A
(CONNECTION AT LOWER ARM SIMILAR)



ARM ELEVATION



ARM CONNECTION DETAIL

ARM TUBE EXTRUSIONS NOTES:

1. WORK THESE DETAILS WITH FDOT STANDARD PLANS INDEX 715-002.
2. AT THE POLE CONNECTIONS, PROVIDE ARM TUBE EXTRUSIONS WITH DIMENSIONS AS SHOWN. UNIFORMLY TRANSITION ELLIPTICAL SECTION TO A CYLINDRICAL SECTION AT THE ARM CONNECTION.
3. THE FABRICATOR MAY SUBSTITUTE ELLIPTICAL CROSS SECTIONS OTHER THAN THOSE TABULATED, PROVIDED THE SECTION PROPERTIES ABOUT THE VERTICAL AXIS AND THE AREA OF THE SECTION EQUAL OR EXCEED THAT OF THE REQUIRED SECTION, AND PROVIDE MINIMUM WALL THICKNESS OF 0.188" AND WITHIN THE ALUMINUM ASSOCIATION TOLERANCES.
4. THE OUTSIDE DIAMETER ABOUT THE MINOR AXIS SHOULD BE HELD AT 2.5" AT THE UPPER AND LOWER ARMS.
5. DETAILS PROVIDED ARE FOR BIDDING PURPOSES ONLY. SUBMIT STRUCTURAL CALCULATIONS FOR THE BRACKET ARM FOR A DESIGN WIND SPEED OF 140 MPH ALONG WITH SHOP DRAWINGS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
CARDNO
3905 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA 33578
CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

**UTILITY CONFLICT LIGHT POLE
DETAILS (2)**

SHEET NO.
L-33

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