



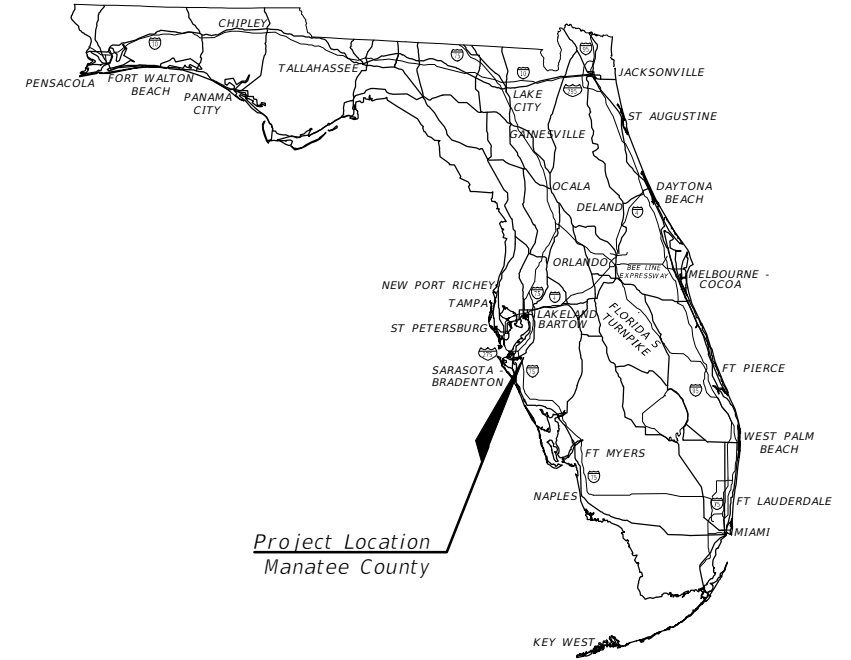
# CONTRACT PLANS

COUNTY PROJECT NUMBER 6086960  
MANATEE COUNTY

44th AVENUE EAST - BRADEN RIVER SEGMENT  
(45th STREET EAST TO 44th AVENUE PLAZA EAST)

## FEBRUARY 2019

### LIGHTING PLANS



#### INDEX OF LIGHTING PLANS

SHEET NO.	SHEET DESCRIPTION
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L-4	GENERAL NOTES
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L-10 THRU L-29	LIGHTING PLANS
L-30	LOAD CENTER DETAILS
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#### LIGHTING PLANS SHOP DRAWINGS TO BE SUBMITTED TO:

AECOM  
ATTN: HENRYK B. JUSZCZYK  
7650 W COURTNEY CAMPBELL CAUSEWAY  
TAMPA, FLORIDA 33607  
(813) 286-1711

#### PLANS PREPARED BY:

AECOM TECHNICAL SERVICES, INC.  
7650 W. COURTNEY CAMPBELL CAUSEWAY  
TAMPA, FL 33607-1462  
(813) 286-1711

VENDOR NO. F952661922  
CERTIFICATE OF AUTHORIZATION NO. 00008115

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

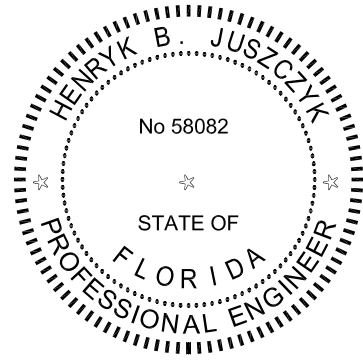
#### FINAL SUBMITTAL

LIGHTING PLANS  
ENGINEER OF RECORD: HENRYK B. JUSZCZYK

P.E. NO.: 58082

FISCAL YEAR	SHEET NO.
17	L-1

MANATEE COUNTY PROJECT MANAGER: ERIC SHROYER, P.E.




THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY:

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

AECOM TECHNICAL SERVICES, INC.  
7650 W. COURTNEY CAMPBELL CAUSEWAY  
TAMPA, FL 33607  
CERTIFICATE OF AUTHORIZATION: 00008115  
HENRYK B. JUSZCZYK, P.E.

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
L-1	LIGHTING KEY PLAN
L-1A	ELECTRICAL SIGNATURE SHEET
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L-10 THRU L-29	LIGHTING PLANS
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L-31	PANELBOARD SCHEDULES

				SCALE AS NOTED	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082	DATE 02/16/2018	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	DESIGN ENGINEER HENRYK B. JUSZCZYK, P.E.	<i>ELECTRICAL SIGNATURE SHEET</i>	SHEET NO.
				H. JUSZCZYK	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462	PROJECT NO. 6086960		FL. LICENSE NO. 58082		L-1A
				H. GRIMALDO	(813) 286-1711					
No.	REVISIONS	DATE	BY	P. PASTORE	CERTIFICATE OF AUTHORIZATION: 8115					

TABULATION OF QUANTITIES (1)

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			L-11		L-12		L-13		L-14		L-15		L-16		L-17		L-18		L-19		L-20		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	LIGHTING-CONDUIT (F&I) (UNDERGROUND)	LF	630		729		1350		1487		1421		1416		1274		1276		752		781		11,116				
630-2-12	DIRECTIONAL BORE (LESS THAN 6")	LF	74		63		101		232		-		-		-		298		68		122		958				
635-2-11	LIGHTING PULL BOX (F&I) (ROADSIDE-MOULDED)	EA	7		5		11		13		4		-		4		20		7		8		79				
715-1-12	LIGHTING CONDUCTORS, (F&I), INSUL.. NO. 8-6	LF	3217		3921		6997		8237		7122		7080		5774		7915		7134		7362		64,759				
715-1-13	LIGHTING CONDUCTORS, (F&I), INSUL.. NO. 4-2	LF	-		-		-		216		-		-		-		-		-		-		216				
715-4-121	LIGHT POLE COMPLETE, F&I, WIND SPEED 130, POLE HEIGHT 40'	EA	3		-		5		5		4		-		4		12		-		2		35				
715-7-11	LOAD CENTER (F&I) (SECONDARY VOLTAGE)	EA	-		-		-		1		-		-		-		-		-		-		1				
715-500-1	LIGHT POLE CABLE DISTRIBUTION - CONVENTIONAL	EA	7		6		5		5		4		-		4		13		10		6		60				
715-500-3	LIGHT POLE CABLE DISTRIBUTION - WALL MOUNTED	EA	-		-		-		-		6		8		6		-		-		-		20				
715-512-140	LIGHT POLE COMPLETE, F&I, SPECIAL DESIGN DOUBLE ARM, ALUMINUM 40'	EA	2		3		-		-		-		-		-		-		5		2		12				
715-515-140	LIGHT POLE COMPLETE, F&I, SPECIAL DESIGN SINGLE ARM, ALUMINUM BRIDGE MOUNT 40'	EA	-		-		-		-		6		8		6		-		-		-		20				
715-5-12	LIGHT FIXTURE AND SINGLE GALVANIZED STEEL ARM MOUNTED ON TRAFFIC SIGNAL POLE	EA	-		-		-		-		-		-		-		1		-		-		1				

SHEET NOTE:  
REFER TO SHEET L-5 FOR PAY ITEM NOTES.

No.	REVISIONS	DATE	BY	SCALE	AS NOTED	DESIGNED BY	H. JUSZCZYK	DRAWN BY	H. GRIMALDO	CHECKED BY	P. PASTORE	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082 AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711 CERTIFICATE OF AUTHORIZATION: 8115	DATE	02/16/2018	PROJECT NO.	6086960	DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E. FL. LICENSE NO. 58082	TABULATION OF QUANTITIES (1)	SHEET NO.	L-2
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TABULATION OF QUANTITIES (2)

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			L-21		L-22		L-23		L-24		L-25		L-26		L-27		L-28		PLAN	FINAL	PLAN	FINAL					
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL									
630-2-11	LIGHTING-CONDUIT (F&I) (UNDERGROUND)	LF	842		801		709		153		610		687		729		417		-		-		4948		16,064		
630-2-12	DIRECTIONAL BORE (LESS THAN 6")	LF	231		63		120		-		42		-		-		-		-		-		456		1414		
635-2-11	LIGHTING PULL BOX (F&I) (ROADSIDE-MOULDED)	EA	12		6		9		1		7		4		4		3		-		-		46		125		
715-1-12	LIGHTING CONDUCTORS, (F&I), INSUL.. NO. 8-6	LF	5242		4141		4063		457		3129		3433		3645		2085		-		-		26,195		90,954		
715-1-13	LIGHTING CONDUCTORS, (F&I), INSUL.. NO. 4-2	LF	771		-		-		-		-		-		-		-		-		-		771		987		
715-4-121	LIGHT POLE COMPLETE, F&I, WIND SPEED 130, POLE HEIGHT 40'	EA	2		-		2		-		5		4		4		3		-		-		20		55		
715-7-11	LOAD CENTER (F&I) (SECONDARY VOLTAGE)	EA	1		-		-		-		-		-		-		-		-		-		1		2		
715-500-1	LIGHT POLE CABLE DISTRIBUTION - CONVENTIONAL	EA	6		8		8		2		5		4		4		3		-		-		40		100		
715-500-3	LIGHT POLE CABLE DISTRIBUTION - WALL MOUNTED	EA	-		-		-		-		-		-		-		-		-		-		-		20		
715-512-140	LIGHT POLE COMPLETE, F&I, SPECIAL DESIGN DOUBLE ARM, ALUMINUM 40'	EA	2		4		3		1		-		-		-		-		-		-		10		22		
715-515-140	LIGHT POLE COMPLETE, F&I, SPECIAL DESIGN SINGLE ARM, BRIDGE MOUNT 40'	EA	-		-		-		-		-		-		-		-		-		-		-		20		
715-5-12	LIGHT FIXTURE AND SINGLE GALVANIZED STEEL ARM MOUNTED ON TRAFFIC SIGNAL POLE	EA	-		-		-		-		-		-		-		-		-		-		-		1		

SHEET NOTE:  
REFER TO SHEET L-5 FOR PAY ITEM NOTES.

SCALE	AS NOTED	DESIGNED BY	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082	DATE	02/16/2018	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Grimaldo, Herman	DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E.	<b>TABULATION OF QUANTITIES (2)</b>	SHEET NO.	L-3
DRAWN BY	H. JUSZCZYK	CHECKED BY	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711 CERTIFICATE OF AUTHORIZATION: 8115	PROJECT NO.	6086960		FL. LICENSE NO.	58082			
No.	REVISIONS	DATE	BY	P. PASTORE							

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## GENERAL NOTES

1. FOR GENERAL NOTES SEE FDOT DESIGN STANDARDS. ALL INDEX REFERENCES ARE FOUND IN THIS BOOKLET.
2. PRIOR TO ANY EQUIPMENT ORDER, SUBMIT FOR APPROVAL EQUIPMENT SPECIFICATION OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT. THESE MUST SPECIFICALLY INCLUDE:
  - A) LUMINAIRE PHOTOMETRICS
  - B) POLE STRENGTH CALCULATIONS
  - C) POLE FRANGIBILITY TEST
  - D) BOLT SPECIFICATIONS AND BOLT CIRCLE DIAMETER
  - E) POLE, SERVICE POINT EQUIPMENT AND LOAD CENTER SHOP DRAWINGS
  - F) LOAD CENTER ELECTRICAL EQUIPMENT
3. UTILITY OWNERS:
 

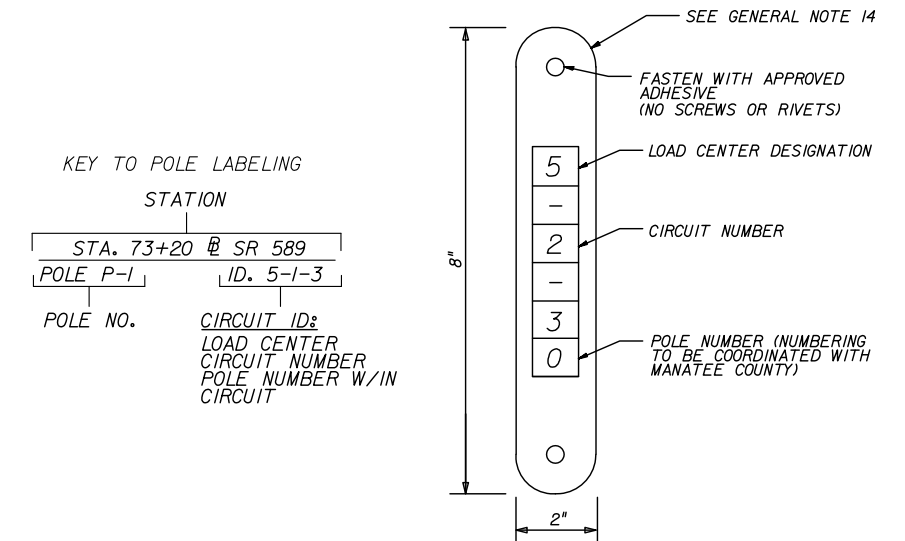
COMPANIES	CONTACT NAME	PHONE NUMBER
Spectrum	Jlm Cruzan	727-329-2846
Manatee County Utilities	Jeff Streltmatter	941-708-7450 #7335
Manatee County Utilities	Scott May	941-708-7450 #7650
Florida Power & Light Distribution	Greg Coker	941-704-9087
Frontier Communications	Danise Hutton	941-906-6722
FPL Transmision	Gary Paterson	561-904-3665
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. BEFORE EXCAVATING NOTIFY THE UTILITY COMPANY OWNER(S) AND REQUEST THEM TO LOCATE AND STAKE THEIR UNDERGROUND FACILITIES. UTILITIES ARE TO BE ADJUSTED BY OTHERS AS DIRECTED BY THE ENGINEER.
5. PROVIDE NOTICE TO THE UTILITY OWNER(S) PER FLORIDA STATUTE 553.851 (2004) AND 556 (2004). THESE STATUTES REQUIRE THAT BEFORE EXCAVATION, NOTICE BE GIVEN TO THE UTILITY OWNER A MINIMUM OF TWO (2) DAYS, EXCLUDING SATURDAY, SUNDAY AND LEGAL HOLIDAYS. NOT ALL UTILITY COMPANIES ARE MEMBERS OF "SUNSHINE" 1-800-432-4770.
6. THE LOCATION OF THE POLES, CONDUCTORS, CONDUITS, JUNCTION BOXES AND SERVICE POLES ARE DIAGRAMMATIC ONLY AND MAY BE SHIFTED BY THE CONTRACTOR TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS.
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. CERTIFICATION FOR TESTS SHALL BE SUBMITTED WITH THE SHOP DRAWINGS.
8. SUBMITTAL DATA SHALL INCLUDE COMPUTER PRINTOUT SHOWING HORIZONTAL FOOTCANDLE LEVELS TO BE OBTAINED USING THE SUBMITTED LUMINAIRES ON THIS PROJECT. AT FINAL INSPECTION THE CONTRACTOR SHALL VERIFY THE HORIZONTAL FOOTCANDLE LEVELS ON THE ROADWAY WITH AN APPROVED RECENT CALIBRATED LIGHT METER CERTIFIED BY A PROFESSIONAL AGENCY.
9. ALL ELECTRICAL WORK SHALL MEET ALL REQUIREMENTS OF THE LATEST EDITIONS OF THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL SAFETY CODE AND THE FDOT SPECIFICATIONS. ALL COMPONENTS SHALL BE PROPERLY GROUNDED AND BONDED PER N.E.C. REQUIREMENTS.
10. IN ACCORDANCE WITH N.E.C., IDENTIFY ALL CIRCUITS AND EQUIPMENT WITH "LAMACOID TAGS". INSTALL SIMILAR TAGS OF STAINLESS STEEL IDENTIFYING CIRCUIT FOR EACH LUMINAIRE AT ACCESS HANDHOLE FOR EACH POLE.
11. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS. NO ROADWAY LIGHTING FACILITIES SHALL BE PLACED WITHIN THE 10' OSHA CLEAR ZONE AREAS FOR OVERHEAD DISTRIBUTION ELECTRIC LINES AND WITHIN 15 FEET FOR OH TRANSMISSION LINES.
12. 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 BEND RADIUS SHALL NOT BE LESS THAN RECOMMENDED BY N.E.C. OR N.E.S.C. FOR CABLE USED.
13. STAKE ALL POLE LOCATIONS AND REQUEST UTILITY COMPANIES TO LOCATE AND STAKE UNDERGROUND UTILITIES PRIOR TO EXCAVATING.
14. FURNISH AND INSTALL AN ALUMINUM IDENTIFICATION TAG ON EACH ROADWAY LIGHTING STANDARD AND ILLUMINATED OVERHEAD SIGNS. TAGS SHALL BE 2" X 8" IN SIZE WITH BLACK LETTERS ON YELLOW BACKGROUND, ATTACHED WITH APPROVED ADHESIVE (NO SCREWS OR RIVETS). NUMBERS SHALL BE AS SHOWN ON THE POLE IDENTIFICATION TAG DETAIL. COST OF TAGS SHALL BE INCLUDED IN THE BID ITEMS FOR LIGHT POLE COMPLETE. TAG SHALL BE PLACED 5 FEET ABOVE GRADE AND FACING THE ROADWAY. THE CONTRACTOR SHALL COORDINATE WITH MANATEE COUNTY ROADWAY MAINTENANCE FOR PROPER NUMBERING SEQUENCE OF LOAD CENTER, CIRCUITS, AND POLES BEFORE ORDERING TAGS.

15. VERIFY POLE LENGTHS REQUIRED PER THE ROADWAY CROSS SECTIONS AND OFFSETS IN ORDER TO ACHIEVE THE PROPER MOUNTING HEIGHT FOR EACH LUMINAIRE. THIS VERIFICATION SHALL OCCUR PRIOR TO THE SUBMISSION OF SHOP DRAWINGS. MOUNTING HEIGHTS ARE DETERMINED FROM THE BOTTOM OF THE LUMINAIRE HOUSING VERTICALLY TO PAVEMENT GRADE.
16. 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.
17. JACK AND BORE OPERATIONS IF USED SHALL MEET THE REQUIREMENTS OF F.D.O.T.'S UTILITY ACCOMMODATION GUIDE. (LATEST EDITION).
18. ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSINGS BY THE END OF EACH WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. THE CONTRACTOR SHALL NOT OPEN ANY AREA THAT CAN NOT BE BACKFILLED IN THE SAME DAY/NIGHT OPERATION.
19. UPON FINAL ACCEPTANCE OF THE PROJECT, PREPARE ACCURATELY DIMENSIONED "AS-BUILT" PLANS OF THE FINAL POLE, LOAD CENTER CABINET, PULL BOXES, CABLE AND CONDUIT LOCATIONS. THE CONTRACTOR SHALL FORWARD A COMPLETE SET OF REVIEWED AND APPROVED AS-BUILT PLANS WITH ALL CHANGES MARKED IN RED TO THE MANATEE COUNTY OFFICE. AS-BUILT PLANS SHOULD BE SUBMITTED TO MANATEE COUNTY TRAFFIC DESIGN DIVISION, ATTN: MR. GERARDO TRAVERSO, PE, PMP AT 2101 47TH TERRACE EAST, BRADENTON, FL 34203.
20. ALL ROADSIDE LIGHTING PULL BOXES SHALL BE MARKED "STREET LIGHTING". ALL PULL BOX METAL COVERS SHALL BE MARKED "STREET LIGHTING" AND SHALL BE PROVIDED WITH A GROUND LUG.
21. REFERENCE THE BRIDGE STRUCTURAL PLANS FOR THE EMBEDDED ELECTRICAL ITEMS: CONDUIT, PULL BOX, JUNCTION BOX AND THEIR LOCATIONS.
22. 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 30" 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 30" BELOW THE GROUND SURFACE AND SHALL BE PLACED IN AN ADDITIONAL 3" PVC SLEEVE OR BACKFILLED WITH A MIN. OF 4"x4" OF CONCRETE. COST OF SUCH TREATMENT WILL BE INCIDENTAL TO PAY ITEMS PROVIDED.
23. ALL EXCESS DIRT AND DEBRIS EXCAVATED FROM POLE FOUNDATIONS SHALL BE REMOVED DAILY TO AREAS APPROVED BY THE ENGINEER AND PAID FOR UNDER PAY ITEM 715-5AB-CDD.
24. ALL SPLICES SHALL BE MADE IN PULL BOXES ONLY WITH COMPRESSION SLEEVES OR SPLIT BOLT CONNECTORS, PROPERLY TAPED AND WATERPROOFED. 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 SHALL BE PROPERLY TAPED AND WATERPROOFED.


25. 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: NO REFRACTOR TYPE FIXTURES SHALL BE USED.
26. ALL CONDUITS SHALL BE MANDREL TESTED AND CLEANED. CONDUITS PLACED FOR FUTURE USE SHALL HAVE POLYESTER CORD PULLED IN PLACE AND CAPPED, WITH NOTATION INSIDE CONDUIT AS TO LOCATION OF OPPOSITE END. PLACE DUCT MARKER OR MARK PULL BOXES TO INDICATE ENDS OF EMPTY CONDUITS.
27. SPARE CONDUIT AT MAINLINE AND ARTERIAL ROAD PAVEMENT CROSSINGS SHALL BE CAPPED AT BOTH ENDS.
28. DO NOT INSTALL LIGHT POLES, PULL BOXES AND/OR LOAD CENTERS WITHIN ANY DITCHES OR AREAS THAT MAY CAUSE WATER INTRUSION.
29. AS PART OF THE 7 DAY TEST BURNING PERIOD, EACH CIRCUIT SHALL BE LABELED WITH THE LOAD AMPERAGE READING AT THE LOAD CENTER PANEL.
30. ALL POLES LOCATED ON SLOPES GREATER THAN 1:4 UP TO 1:2 HAVE BEEN FLAGGED ON THE POLE DATA SHEETS. FOUNDATIONS SHALL BE DESIGNED PER INDEX 17515. IF FIELD CONDITION CHANGES DURING CONSTRUCTION AFFECT A SIDE SLOPE, USE THE APPROPRIATE FOUNDATION FOR THE ACTUAL CONDITION.
31. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE WITHIN FIVE FEET OF A LIGHTING POLE FOUNDATIONS AND/OR CONDUIT RUNS), AS DETERMINED BY THE ENGINEER, THE CONTRACTOR WILL HAND DIG THE FIRST 4 FEET OF THE HOLE FOR THE POLE FOUNDATION AND/OR CONDUIT RUNS).
32. THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE TRAFFIC CONTROL PLANS IN THE ROADWAY PLANS FOR TEMPORARY LIGHTING INSTALLATION DETAILS AND NOTES.
33. ALL LIGHTING FIXTURES SHALL BE FDOT APPROVED LED AND LISTED ON THE CURRENT APL. PROVIDE MATERIAL SUBMITTAL TO MANATEE COUNTY FOR APPROVAL OF FIXTURE BEFORE ORDERING.




POLE IDENTIFICATION TAG DETAIL  
N.T.S.

					SCALE AS NOTED	DESIGNED BY H. JUSZCZYK	DRAWN BY H. GRIMALDO	CHECKED BY P. PASTORE	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082 AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711 CERTIFICATE OF AUTHORIZATION: 8115	DATE 02/16/2018		DESIGN ENGINEER HENRYK B. JUSZCZYK, P.E. FL. LICENSE NO. 58082	<h1 style="margin: 0;">GENERAL NOTES</h1>	SHEET NO. L-4
No.	REVISIONS			DATE	BY									

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

PAY ITEM NOTES

1. ITEMS 630-2-AB: INCLUDES CONDUITS, ELBOWS, SWEEPS, CONNECTING HARDWARE, TRENCHING AND BACKFILL AS PER THE PLANS AND DESIGN STANDARDS. THE LINEAR FOOT PRICE FOR CONDUIT SHALL ALSO INCLUDE THE COST OF RESTORING SIDEWALKS AND PAVEMENT TO THEIR ORIGINAL CONDITION. SOD SHALL BE REPLACED IN LIKE KIND OF THE ADJACENT SURROUNDING.
2. ITEM 630-2-II: INCLUDES THE INSTALLATION OF CONDUIT UNDER PROPOSED PAVEMENT. CONDUIT SHOULD BE PLACED PRIOR TO INSTALLATION OF PAVEMENT.
3. ITEMS 715-1-12: INCLUDES CONDUCTORS AS INDICATED IN THE PLANS AND DESIGN STANDARDS. DESIGN QUANTITY SHALL BE BASED ON LINEAR FEET OF SINGLE CONDUCTOR.
4. ITEM 715-7-II: INCLUDE NEMA 4X SAFETY SWITCH, BASE MOUNTED ENCLOSURES, 480-120V CONTROL POWER TRANSFORMER, FUSES, SPD TYPE 1 (SURGE ARRESTER) ON OUTSIDE OF METER ENCLOSURE, SPD TYPE 2 ON THE INSIDE OF THE ENCLOSURE, CONDUIT AND FEEDER CONDUCTORS FROM THE POWER COMPANY POINT OF SERVICE, PULL BOX AND ALL MISCELLANEOUS HARDWARE FOR A COMPLETE INSTALLATION AS PER PLANS AND STANDARD INDEX I7504 DETAIL "A". INCLUDE THE COST OF FURNISHING AND INSTALLING TYPE P-II PRESTRESSED CONCRETE POLE AND ALL FEES FOR INSPECTION OF CONNECTION OF THE ELECTRICAL SERVICE.
5. ITEM 715-5-II: INCLUDES THE BRACKET ARM, LUMINAIRE WITH LAMP AND ALL NECESSARY MOUNTING HARDWARE AS PER THE PLANS AND INDEXES. COORDINATE INSTALLATION WITH SIGNAL CONTRACTOR.

				SCALE		DATE	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Grimaldo, Herman	DESIGN ENGINEER	<p align="center"><b>PAY ITEM NOTES</b></p>	SHEET NO.
			AS NOTED	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082	02/16/2018	HENRYK B. JUSZCZYK, P.E.		58082		L-5
			H. JUSZCZYK	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462	PROJECT NO.	FL. LICENSE NO.				
			H. GRIMALDO	(813) 286-1711 CERTIFICATE OF AUTHORIZATION: 8115	6086960					
No.	REVISIONS	DATE	BY	P. PASTORE						

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

POLE DATA

POLE NO.	CIRCUIT ID	STATION	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK	PAY ITEM
P-1	A-1-1	167+50 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-2	A-2-1	168+77 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-3	A-1-2	170+40 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-4	A-2-2	171+65 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-5	A-1-3	173+40 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-6	A-2-3	175+20 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-7	A-1-4	177+00 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-8	A-2-4	178+83 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-9	A-4-1	180+65 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-10	A-3-1	181+90 C CONST.	279	40'	FRONT FACE OF SIDEWALK	715-4-121
P-11	A-4-2	183+50 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-12	A-3-2	184+95 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-13	A-4-3	186+55 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-14	A-3-3	188+20 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-15	A-1-5	189+85 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-16	A-2-5	191+60 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-17	A-1-6	193+20 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-18	A-4-4	193+12 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-19	A-2-6	194+80 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-20	A-3-4	194+80 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-21	A-1-7	196+40 C CONST.	170	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-22	A-4-5	196+40 C CONST.	170	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-23	A-2-7	198+32 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-24	A-3-5	198+32 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-25	A-1-8	199+87 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-26	A-4-6	199+87 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-27	A-2-8	201+30 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-28	A-3-6	201+30 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-29	A-1-9	202+83 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-30	A-4-7	202+83 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-31	A-2-9	204+30 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-32	A-3-7	204+30 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-33	A-1-10	205+82 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-34	A-4-8	205+82 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-35	A-2-10	207+30 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-36	A-3-8	207+30 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-37	A-1-11	208+82 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-38	A-4-9	208+82 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-39	A-2-11	210+30 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-40	A-3-9	210+30 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-41	A-1-12	211+82 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-42	A-4-10	211+82 C CONST.	170	40'	MOUNT ON BRIDGE	715-515-140
P-43	A-2-12	213+30 C CONST.	170	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-44	A-3-10	213+30 C CONST.	170	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-45	A-1-13	214+80 C CONST.	170	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-46	A-4-11	214+80 C CONST.	170	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-47	B-1-1	216+00 C CONST.	170	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-48	B-3-1	216+10 C CONST.	170	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-49	B-2-1	217+20 C CONST.	170	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-50	B-4-1	217+20 C CONST.	170	40'	BEHIND FACE OF SIDEWALK	715-4-121

POLE DATA







POLE NO.	CIRCUIT ID	STATION	LUMINAIRE WATTAGE	MOUNTING HEIGHT	POLE SETBACK	PAY ITEM
P-51	B-1-2	218+30 C CONST.	170	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-52	B-3-2	218+30 C CONST.	170	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-53	B-2-3	220+13 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-54	B-4-2	219+80 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-55	B-1-4	221+27 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-56	B-3-3	222+40 C CONST.	170	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-57	B-4-4	223+45 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-58	B-3-4	224+90 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-59	B-4-5	226+40 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-60	B-3-5	227+95 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-61	B-4-6	229+30 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-62	B-3-6	231+10 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-63	B-4-7	232+65 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-64	B-3-7	234+48 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-65	B-4-8	236+25 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-66	B-3-8	238+06 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-67	B-4-9	239+60 C CONST.	279	40'	FRONT FACE OF SIDEWALK	715-4-121
P-68	B-3-9	241+40 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-69	B-4-10	242+90 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-70	B-3-10	244+40 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-71	B-4-11	245+90 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-72	B-3-11	247+45 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-73	B-4-12	248+90 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-74	B-3-12	250+55 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-75	B-4-13	252+20 C CONST.	279	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-76	B-3-13	253+95 C CONST.	279	40'	FRONT FACE OF SIDEWALK	715-4-121
P-77	B-4-14	255+70 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-78	B-3-14	257+40 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-79	B-4-15	259+00 C CONST.	(2) 170	40'	MOUNT ON MEDIAN	715-512-140
P-80	B-4-3	501+55 R MORGAN JOHNSON	200	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-81	B-2-2	218+97 R CONST.	279	40'	MOUNT ON TRAFFIC SIGNAL POLE	715-5-12
P-82	B-1-3	325+50 R CONST. CARUSO	200	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-83	B-2-4	324+30 R CONST. CARUSO	200	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-84	B-1-5	322+85 R CONST. CARUSO	200	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-85	B-2-5	321+55 R CONST. CARUSO	200	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-86	B-1-6	319+60 R CONST. CARUSO	200	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-87	B-2-6	317+95 R CONST. CARUSO	200	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-88	B-1-7	315+80 R CONST. CARUSO	200	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-89	B-2-7	314+10 R CONST. CARUSO	200	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-90	B-1-8	312+60 R CONST. CARUSO	200	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-91	B-2-8	311+05 R CONST. CARUSO	200	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-92	B-1-9	309+43 R CONST. CARUSO	200	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-93	B-2-9	307+90 R CONST. CARUSO	200	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-94	B-1-10	306+10 R CONST. CARUSO	200	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-95	B-2-10	304+76 R CONST. CARUSO	200	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-96	B-1-11	302+94 R CONST. CARUSO	200	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-97	B-2-11	301+60 R CONST. CARUSO	200	40'	BEHIND FACE OF SIDEWALK	715-4-121
P-98	B-1-12	300+34 R CONST. CARUSO	200	40'	BEHIND FACE OF SIDEWALK	715-4-121

No.	REVISIONS	DATE	BY	SCALE	AS NOTED	DESIGNED BY	H. JUSZCZYK	DRAWN BY	H. GRIMALDO	CHECKED BY	P. PASTORE	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082 AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711 CERTIFICATE OF AUTHORIZATION: 8115	DATE	02/16/2018	PROJECT NO.	6086960	DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E. FL. LICENSE NO.	58082	SHEET NO.	L-6
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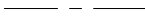








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# LEGEND

SYMBOLS	DESCRIPTION
	SINGLE ARM, SHOULDER MOUNT, LIGHTING STANDARD ALUMINUM POLE, COBRA HEAD WITH ARM, IDENTIFICATION TAG AND 170 WATT LED LUMINARIES DESIGNED WITH CLEAR FLAT GLASS FOR MEDIUM CUTOFF, TYPE III PHOTOMETRIC DISTRIBUTION EQUAL TO AMERICAN ELECTRIC LIGHTING CATALOG NUMBER ABTL-A-480-R3-4B-NL-NR WIRED FOR 480 VOLT OPERATION. MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH FRANGILE BASE, CONCRETE FOUNDATION, PULL BOX, CONCRETE PAD, AND GROUNDING SHALL BE AS FDOT STANDARD INDEX.
	DOUBLE ARM, SHOULDER MOUNT, LIGHTING STANDARD ALUMINUM POLE, COBRA HEAD WITH ARM, IDENTIFICATION TAG AND 170 WATT LED LUMINARIES DESIGNED WITH CLEAR FLAT GLASS FOR MEDIUM CUTOFF, TYPE III PHOTOMETRIC DISTRIBUTION EQUAL TO AMERICAN ELECTRIC LIGHTING CATALOG NUMBER ABTL-A-480-R3-4B-NL-NR WIRED FOR 480 VOLT OPERATION. MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH FRANGILE BASE, CONCRETE FOUNDATION, PULL BOX, CONCRETE PAD, AND GROUNDING SHALL BE AS FDOT STANDARD INDEX.
	SINGLE ARM, BRIDGE MOUNT, LIGHTING STANDARD ALUMINUM POLE, COBRA HEAD WITH ARM, IDENTIFICATION TAG AND 170 WATT LED LUMINARIES DESIGNED WITH CLEAR FLAT GLASS FOR MEDIUM CUTOFF, TYPE III PHOTOMETRIC DISTRIBUTION EQUAL TO AMERICAN ELECTRIC LIGHTING CATALOG NUMBER ABTL-A-480-R3-4B-NL-NR WIRED FOR 480 VOLT OPERATION. MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH FRANGILE BASE, CONCRETE FOUNDATION, PULL BOX, CONCRETE PAD, AND GROUNDING SHALL BE AS FDOT STANDARD INDEX.
	SINGLE ARM, SHOULDER MOUNT, LIGHTING STANDARD ALUMINUM POLE, COBRA HEAD WITH ARM, IDENTIFICATION TAG AND 200 WATT LED LUMINARIES DESIGNED WITH CLEAR FLAT GLASS FOR MEDIUM CUTOFF, TYPE II PHOTOMETRIC DISTRIBUTION EQUAL TO AMERICAN ELECTRIC LIGHTING CATALOG NUMBER ABTL-C-480-R2-4B-NL-NR WIRED FOR 480 VOLT OPERATION. MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH FRANGILE BASE, CONCRETE FOUNDATION, PULL BOX, CONCRETE PAD, AND GROUNDING SHALL BE AS FDOT STANDARD INDEX.
	SINGLE ARM, SHOULDER MOUNT, LIGHTING STANDARD ALUMINUM POLE, COBRA HEAD WITH ARM, IDENTIFICATION TAG AND 279 WATT LED LUMINARIES DESIGNED WITH CLEAR FLAT GLASS FOR MEDIUM CUTOFF, TYPE III PHOTOMETRIC DISTRIBUTION EQUAL TO AMERICAN ELECTRIC LIGHTING CATALOG NUMBER ABTL-G-480-R3-4B-NL-NR WIRED FOR 480 VOLT OPERATION. MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH FRANGILE BASE, CONCRETE FOUNDATION, PULL BOX, CONCRETE PAD, AND GROUNDING SHALL BE AS FDOT STANDARD INDEX.
	SINGLE ARM, SHOULDER MOUNT, LIGHTING STANDARD ALUMINUM POLE, COBRA HEAD WITH ARM, IDENTIFICATION TAG AND 279 WATT LED LUMINARIES DESIGNED WITH CLEAR FLAT GLASS FOR MEDIUM CUTOFF, TYPE IV PHOTOMETRIC DISTRIBUTION EQUAL TO AMERICAN ELECTRIC LIGHTING CATALOG NUMBER ABTL-G-480-R4-4B-NL-NR WIRED FOR 480 VOLT OPERATION. MOUNTING HEIGHT 40', SYMBOL INCLUDES POLE CABLE DISTRIBUTION SYSTEM (PAID FOR SEPARATELY) ALUMINUM POLE WITH FRANGILE BASE, CONCRETE FOUNDATION, PULL BOX, CONCRETE PAD, AND GROUNDING SHALL BE AS FDOT STANDARD INDEX.

# LEGEND

SYMBOLS	DESCRIPTION
	2" SCHEDULE 40 PVC CONDUIT, UNLESS OTHERWISE NOTED ON THE PLANS, DIRECT BURIED, CONTAINING CIRCUIT CONDUCTORS AS INDICATED ON PLANS. ALL CONDUCTORS SHALL BE STRANDED COPPER, WITH THWN-2 INSULATION. GROUND CONDUCTORS SHALL HAVE GREEN COLOR INSULATION. RUN GROUND CONDUCTORS INSIDE CONDUIT WITH OTHER CONDUCTORS. SEE F.D.O.T. INDEX 1772J.
	TWO (2) 2" SCHEDULE 80 PVC CONDUIT, EMBEDDED IN THE WALL (TRAFFIC RAILING BARRIER), BRIDGE TRAFFIC RAILING BARRIER, CONTAINING CIRCUIT CONDUCTORS AS INDICATED ON PLANS. ALL CONDUCTORS SHALL BE STRANDED COPPER, WITH THWN-2 INSULATION. GROUND CONDUCTORS SHALL HAVE GREEN COLOR INSULATION. RUN GROUND CONDUCTORS INSIDE CONDUIT WITH OTHER CONDUCTORS. SEE F.D.O.T. INDEX 1772J.
	TWO (2) 2" SCHEDULE 40 PVC CONDUITS, ONE ACTIVE AND ONE SPARE, DIRECT BURIED UNDER EXISTING ROADWAY. EXTEND CONDUITS BEYOND EDGE OF PAVEMENT (BOTH SIDES) AND TERMINATE IN PULL BOXES. THE ACTIVE CONDUIT SHALL CONTAIN CONDUCTORS AS INDICATED ON PLANS. ALL CONDUCTORS SHALL BE STRANDED COPPER, WITH THWN-2 INSULATION. GROUND CONDUCTORS SHALL HAVE GREEN COLOR INSULATION. RUN GROUND CONDUCTORS INSIDE ACTIVE CONDUIT WITH OTHER CONDUCTORS. SEE F.D.O.T. INDEX 1772J. CAP BOTH ENDS OF SPARE CONDUIT.
	SERVICE POINT LOAD CENTER. SEE F.D.O.T. INDEX 17504. PROVIDE LOAD CENTER, CONCRETE PAD, SERVICE DROP/LATERAL, FUSED DISCONNECT SWITCH, GROUND ROD AND MISCELLANEOUS APPURTENANCES AS DETAILED ON LOAD CENTER DETAIL SHEETS. THE LOAD CENTER, CONCRETE PAD, SERVICE LATERAL CONDUIT AND CONDUCTORS, DISCONNECT SWITCH, ALL UTILITY COMPANY FEES AND MISCELLANEOUS APPURTENANCES ARE INCIDENTAL TO THE LOAD CENTER.
	PULL BOX WITH CONCRETE PAD AND A 5/8" X 20 FT. GROUND ROD. SEE F.D.O.T. INDEX 17500. PROVIDE PULL BOXES WHERE SHOWN ON PLANS, AT BOTH ENDS OF CONDUIT AT ROADWAY CROSSINGS AND ELSEWHERE AS NECESSARY FOR THE COMPLETION OF THE PROJECT.
	PULL BOX EMBEDDED IN WALL (TRAFFIC RAILING BARRIER) OR BRIDGE TRAFFIC RAILING BARRIER. THE PULL BOX IS INCIDENTAL TO THE WALL OR BRIDGE CONSTRUCTION AS APPLICABLE.
	UTILITY SERVICE POLE

### CONVENTIONAL LIGHTING DESIGN CRITERIA

Average Initial Intensity (Roadway)	1.5 F.C.
Uniformity Ratio Avg./Min.	4:1 OR LESS
Uniformity Ratio MAX./Min.	10:1 OR LESS
Veiling Luminance Ratio	0.3:1 OR LESS
Basic Wind Speed	130 MPH

SCALE	AS NOTED	DESIGNED BY	HENRYK B. JUSZCZYK, P.E.	DATE	02/16/2018	DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E.	SHEET NO.	L-7
		DRAWN BY	H. JUSZCZYK	PROJECT NO.	6086960		FL. LICENSE NO.		
		CHECKED BY	H. GRIMALDO				58082		
No.	REVISIONS	DATE	BY	P. PASTORE					



PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Bradenton, FL 34208

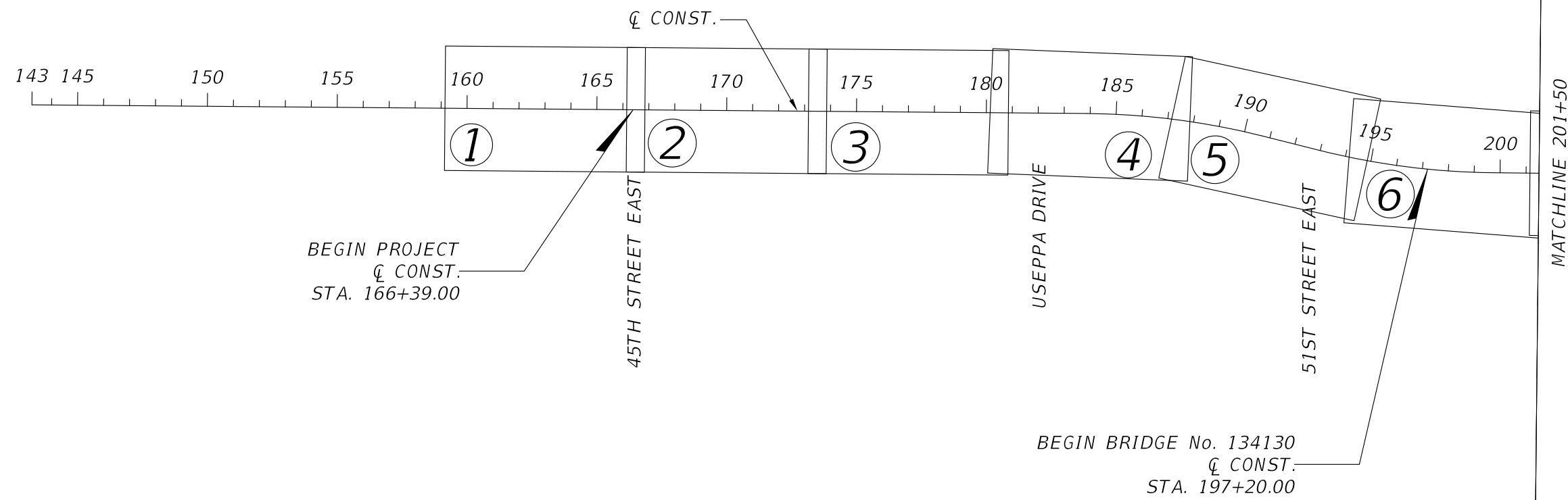
Grimaldo, Herman

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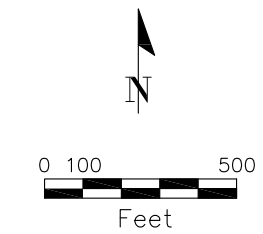
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.






BEGIN PROJECT  
 Q̄ CONST.  
 STA. 166+39.00

BEGIN BRIDGE No. 134130  
 Q̄ CONST.  
 STA. 197+20.00



MATCHLINE 201+50

		SCALE	AS NOTED	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082	DATE	 <small>PUBLIC WORKS DEPARTMENT        ENGINEERING SERVICES        1022 26th Avenue East, Bradenton, FL 34208</small>	DESIGN ENGINEER	<b>LIGHTING LAYOUT (1)</b>	SHEET NO.
		DESIGNED BY	H. JUSZCZYK	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462	02/16/2018		HENRYK B. JUSZCZYK, P.E.		
		DRAWN BY	H. GRIMALDO	(813) 286-1711	PROJECT NO.		FL. LICENSE NO.		
		CHECKED BY	P. PASTORE	CERTIFICATE OF AUTHORIZATION: 8115	6086960		58082		L-8
No.	REVISIONS		DATE	BY					

Grimaldo, Herman

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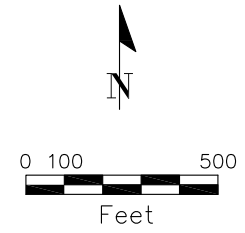
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

END  $\perp$  MORGAN JOHNSON  
 STA. 513+00.00 =  
 STA. 221+64.81, 1270.36' LT  
 $\perp$  CONST.

END  $\perp$  OLD CARUSO RD  
 STA. 925+76.56 =  
 STA. 232+31.20  
 $\perp$  CONST.

END PROJECT 6086960  
 $\perp$  CONST.  
 STA. 260+00.00



MATCHLINE 201+50

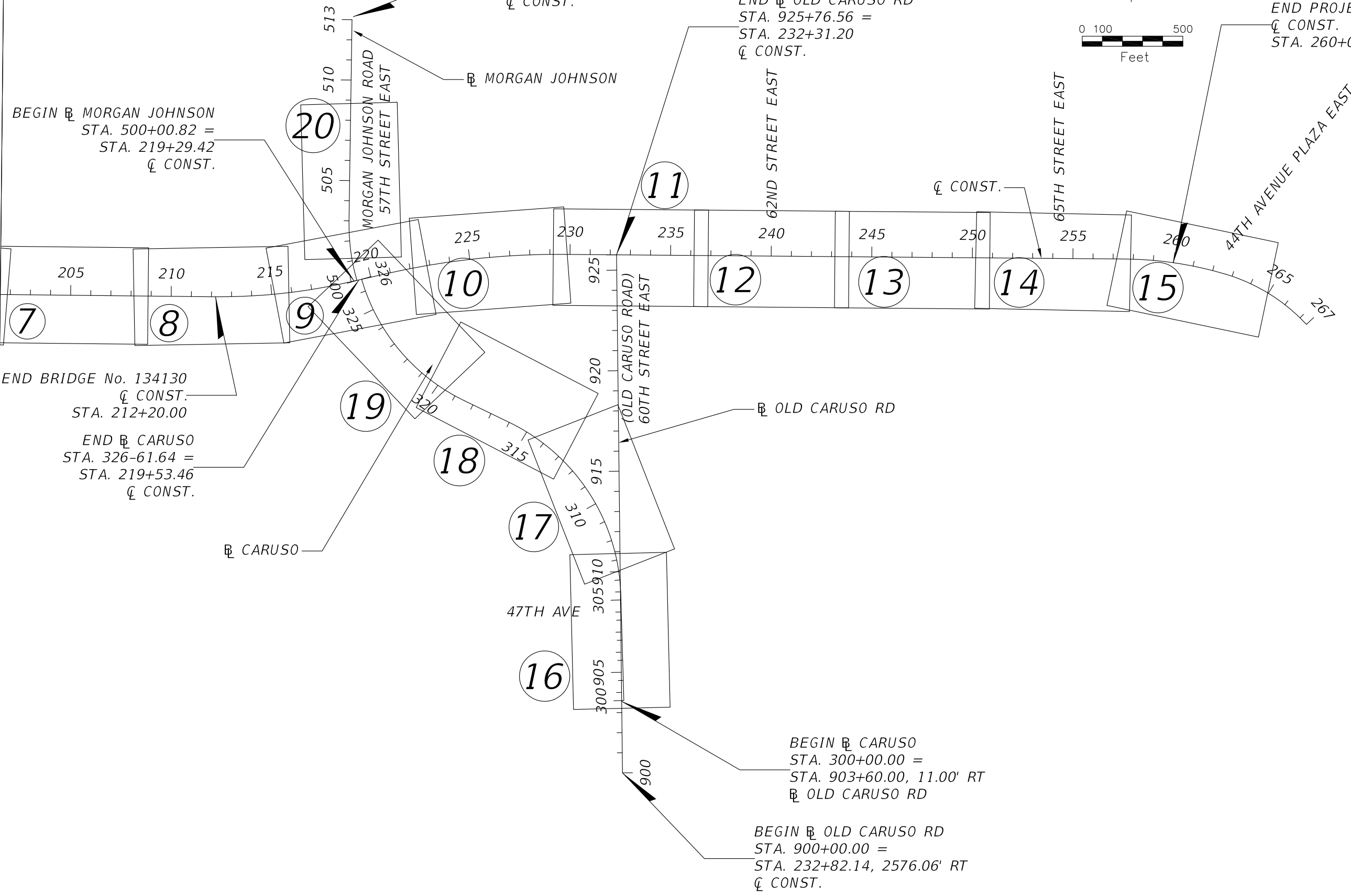
BEGIN  $\perp$  MORGAN JOHNSON  
 STA. 500+00.82 =  
 STA. 219+29.42  
 $\perp$  CONST.


END BRIDGE No. 134130  
 $\perp$  CONST.  
 STA. 212+20.00

END  $\perp$  CARUSO  
 STA. 326-61.64 =  
 STA. 219+53.46  
 $\perp$  CONST.

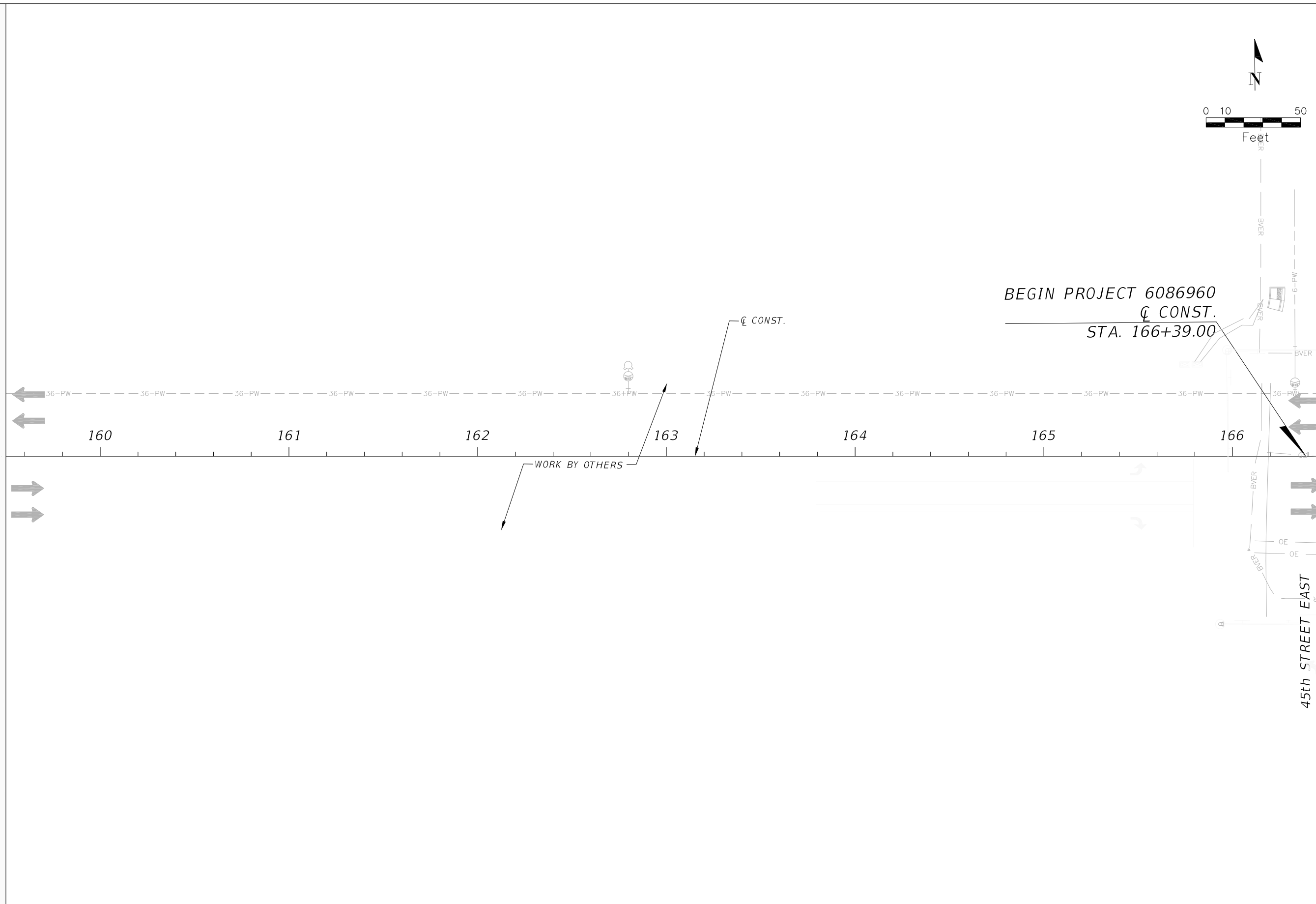
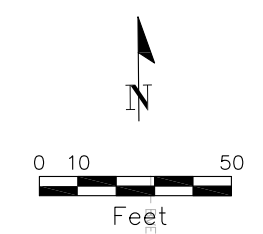
BEGIN  $\perp$  CARUSO  
 STA. 300+00.00 =  
 STA. 903+60.00, 11.00' RT  
 $\perp$  OLD CARUSO RD

BEGIN  $\perp$  OLD CARUSO RD  
 STA. 900+00.00 =  
 STA. 232+82.14, 2576.06' RT  
 $\perp$  CONST.




				SCALE	AS NOTED	DESIGNED BY	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082	DATE	02/16/2018	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 <small>Grimaldo, Herman</small>	DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E.	<b>LIGHTING LAYOUT (2)</b>	SHEET NO.
				DRAWN BY	H. JUSZCZYK	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711	PROJECT NO.	6086960	FL. LICENSE NO.		58082	L-9		
No.	REVISIONS			DATE	BY	CHECKED BY	P. PASTORE	CERTIFICATE OF AUTHORIZATION: 8115						

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

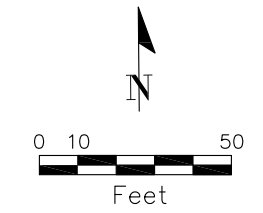


MATCHLINE STA. 166+50.00

45th STREET EAST

				SCALE	AS NOTED	DESIGNED BY	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082	DATE	02/16/2018		DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E.	<b>LIGHTING PLANS (1)</b>	SHEET NO.
				DRAWN BY	H. JUSZCZYK	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462	PROJECT NO.	6086960	FL. LICENSE NO.		58082	L-10		
				CHECKED BY	H. GRIMALDO	(813) 286-1711								
No.	REVISIONS	DATE	BY		P. PASTORE	CERTIFICATE OF AUTHORIZATION: 8115								

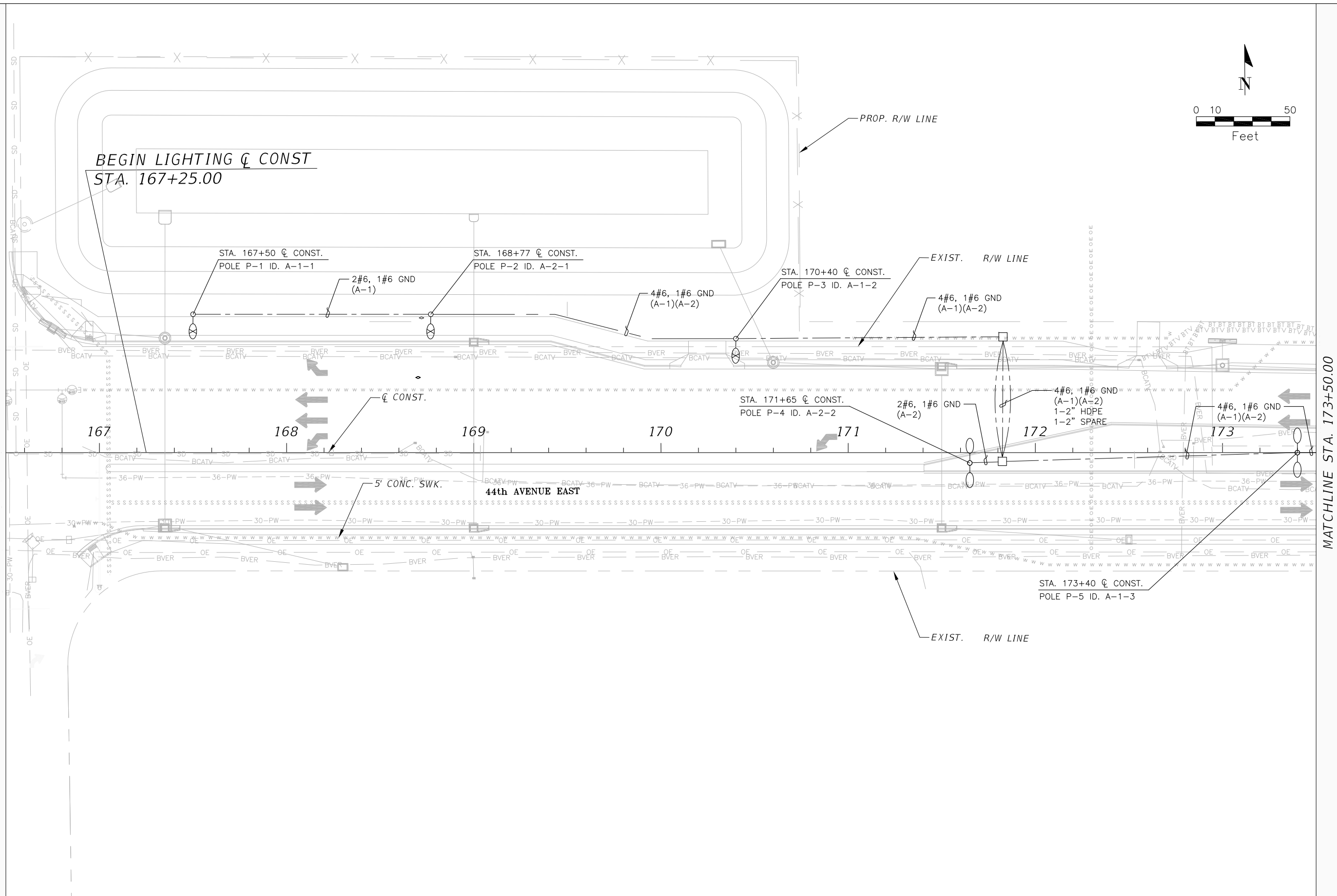
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




MATCHLINE STA. 166+50.00

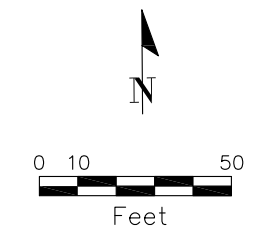
MATCHLINE STA. 173+50.00

**BEGIN LIGHTING & CONST**  
**STA. 167+25.00**



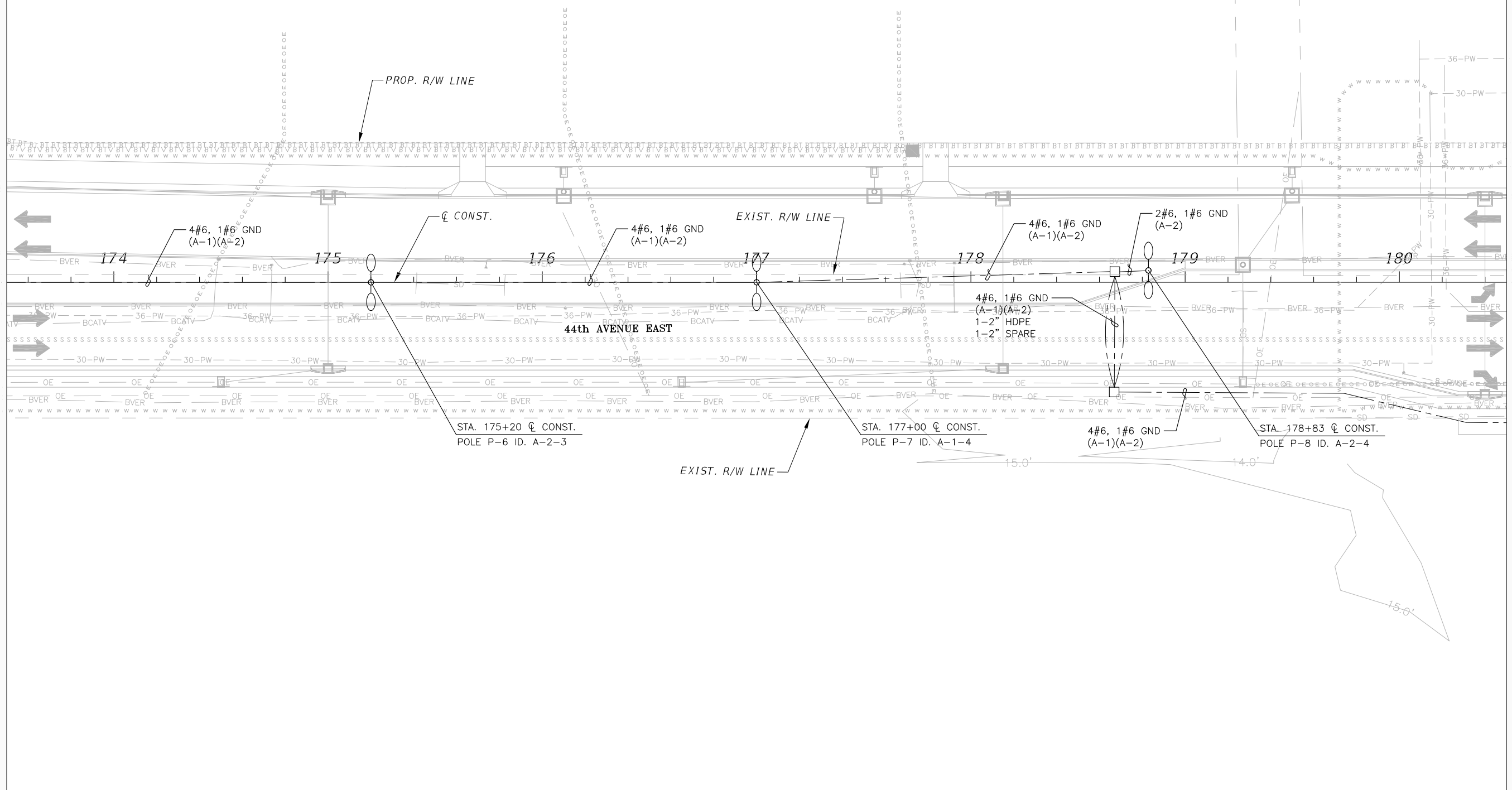
No.	REVISIONS	DATE	BY	SCALE	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082 AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711 CERTIFICATE OF AUTHORIZATION: 8115	DATE	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Grimaldo, Herman	DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E. FL. LICENSE NO. 58082	<b>LIGHTING PLANS (2)</b>	SHEET NO.
				AS NOTED		02/16/2018		PROJECT NO.			58082
				DRAWN BY							
				CHECKED BY							


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



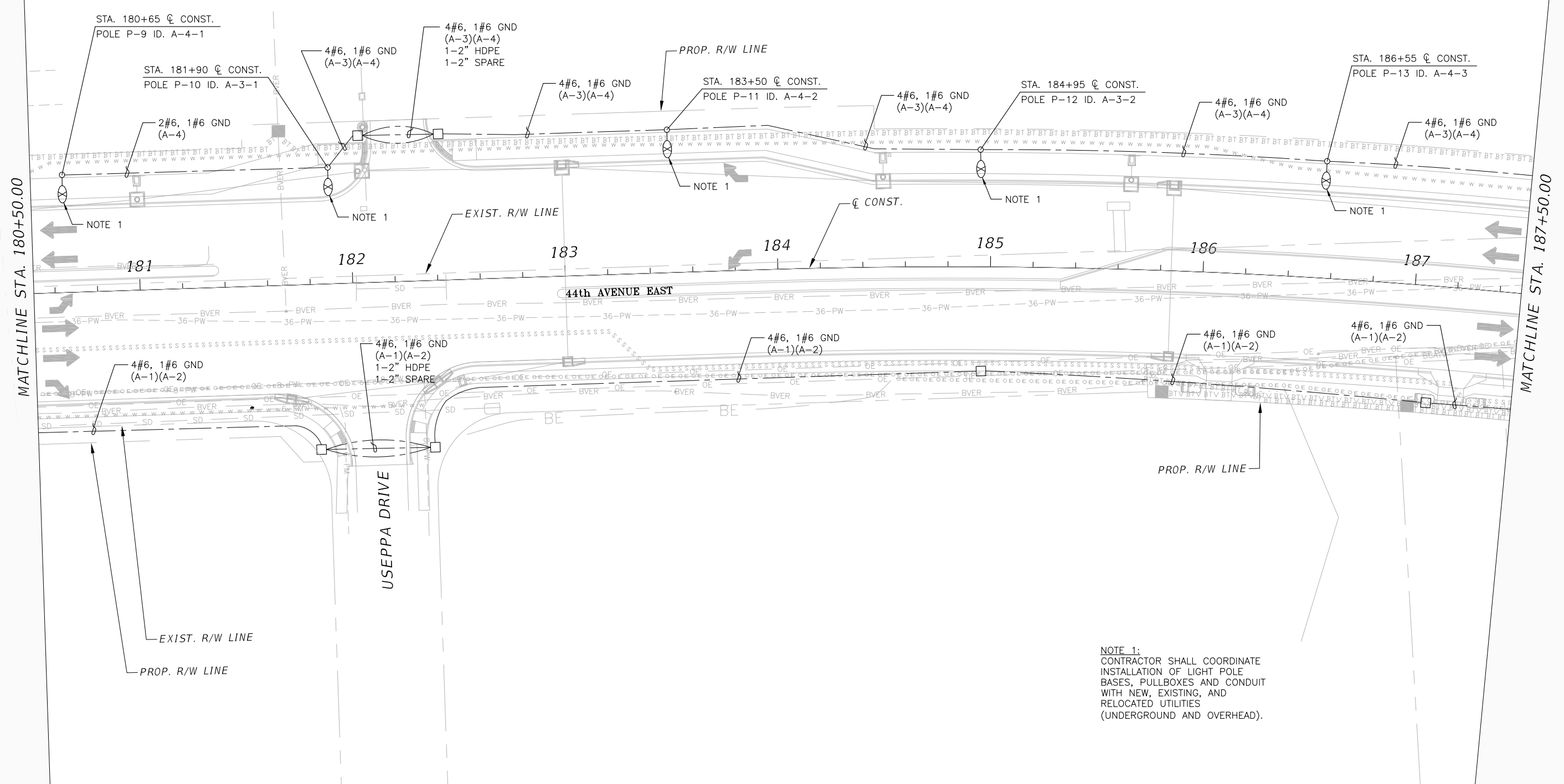
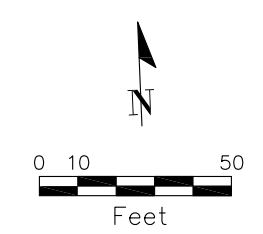
MATCHLINE STA. 173+50.00

MATCHLINE STA. 180+50.00



				SCALE	AS NOTED	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082 AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711 CERTIFICATE OF AUTHORIZATION: 8115	DATE	02/16/2018	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Grimaldo, Herman	DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E.	<b>LIGHTING PLANS (3)</b>	SHEET NO.	
				DESIGNED BY	H. JUSZCZYK		PROJECT NO.	6086960		FL. LICENSE NO.	58082		L-12	
				DRAWN BY	H. GRIMALDO									
				CHECKED BY	P. PASTORE									
No.	REVISIONS			DATE	BY									

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NOTE 1:  
 CONTRACTOR SHALL COORDINATE  
 INSTALLATION OF LIGHT POLE  
 BASES, PULLBOXES AND CONDUIT  
 WITH NEW, EXISTING, AND  
 RELOCATED UTILITIES  
 (UNDERGROUND AND OVERHEAD).

SCALE				AS NOTED		DESIGNED BY		HENRYK B. JUSZCZYK, P.E.		DATE		02/16/2018		DESIGN ENGINEER		HENRYK B. JUSZCZYK, P.E.		SHEET NO.	
				H. JUSZCZYK		DRAWN BY		H. GRIMALDO		PROJECT NO.		6086960		FL. LICENSE NO.		58082		LIGHTING PLANS (4)	
				CHECKED BY		P. PASTORE		CERTIFICATE OF AUTHORIZATION: 8115										L-13	
No.				REVISIONS				DATE		BY									

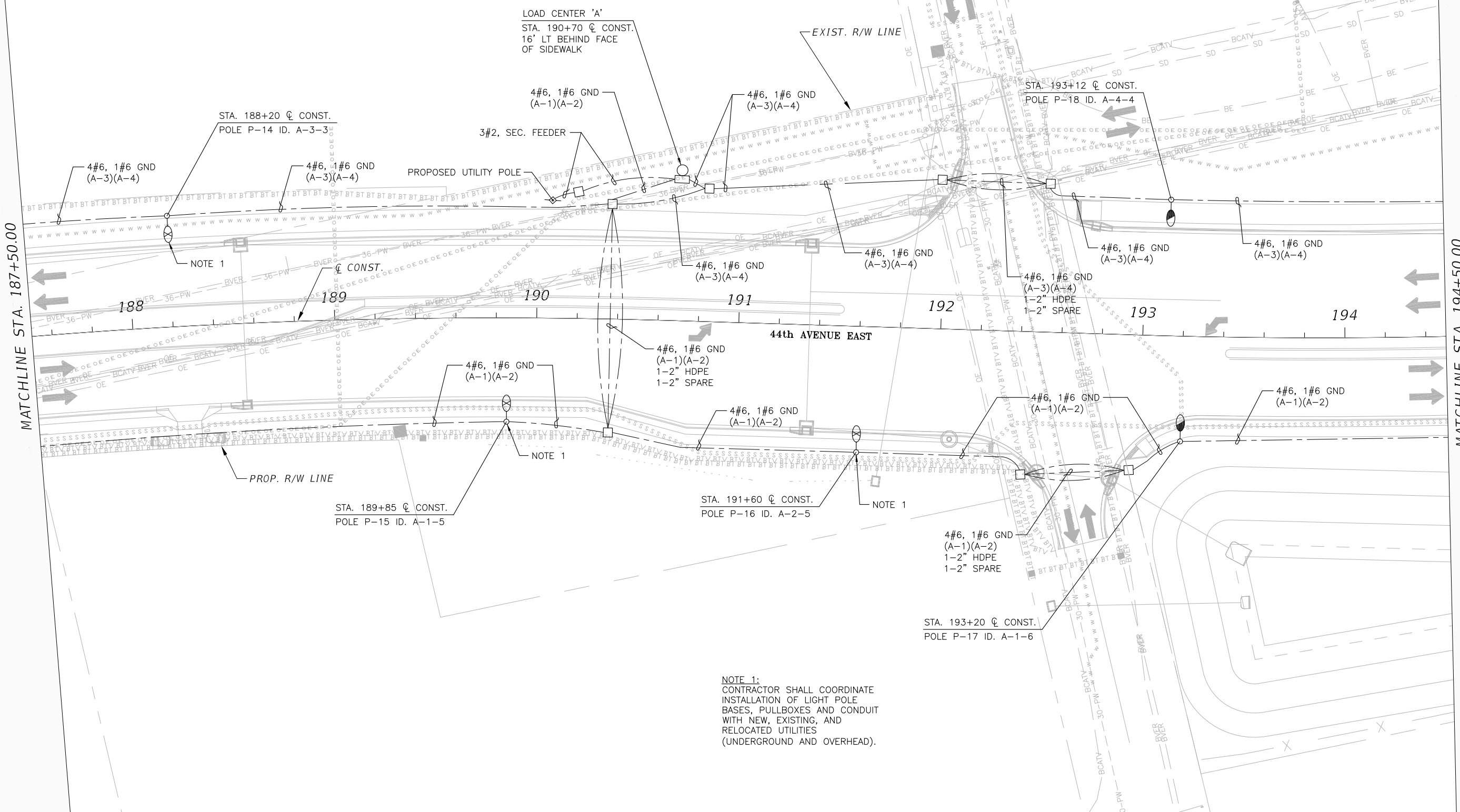
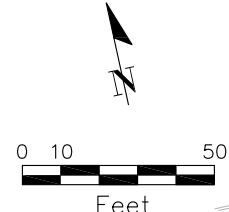


Grimaldo, Herman


2/14/2019 11:15:52 AM

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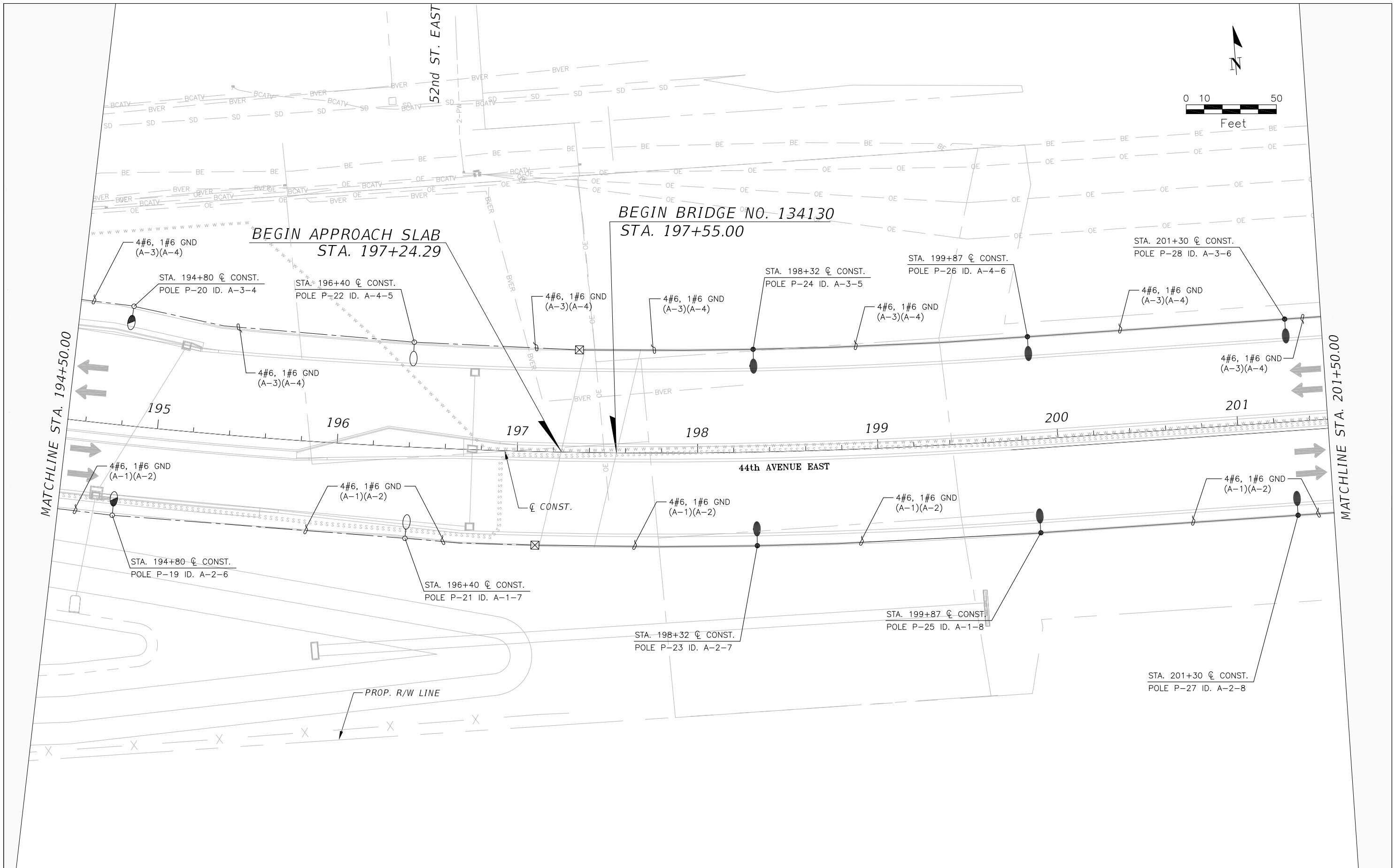
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.




NOTE 1:  
 CONTRACTOR SHALL COORDINATE  
 INSTALLATION OF LIGHT POLE  
 BASES, PULLBOXES AND CONDUIT  
 WITH NEW, EXISTING, AND  
 RELOCATED UTILITIES  
 (UNDERGROUND AND OVERHEAD).

SCALE				AS NOTED		DESIGNED BY		HENRYK B. JUSZCZYK, P.E.		DATE		02/16/2018		 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Grimaldo, Herman		DESIGN ENGINEER		HENRYK B. JUSZCZYK, P.E.		<b>LIGHTING PLANS (5)</b>  SHEET NO. L-14	
DRAWN BY				H. JUSZCZYK		DRAWN BY		H. GRIMALDO		PROJECT NO.		6086960				FL. LICENSE NO.		58082			
CHECKED BY				P. PASTORE		CERTIFICATE OF AUTHORIZATION: 8115															
REVISIONS				DATE		BY															

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

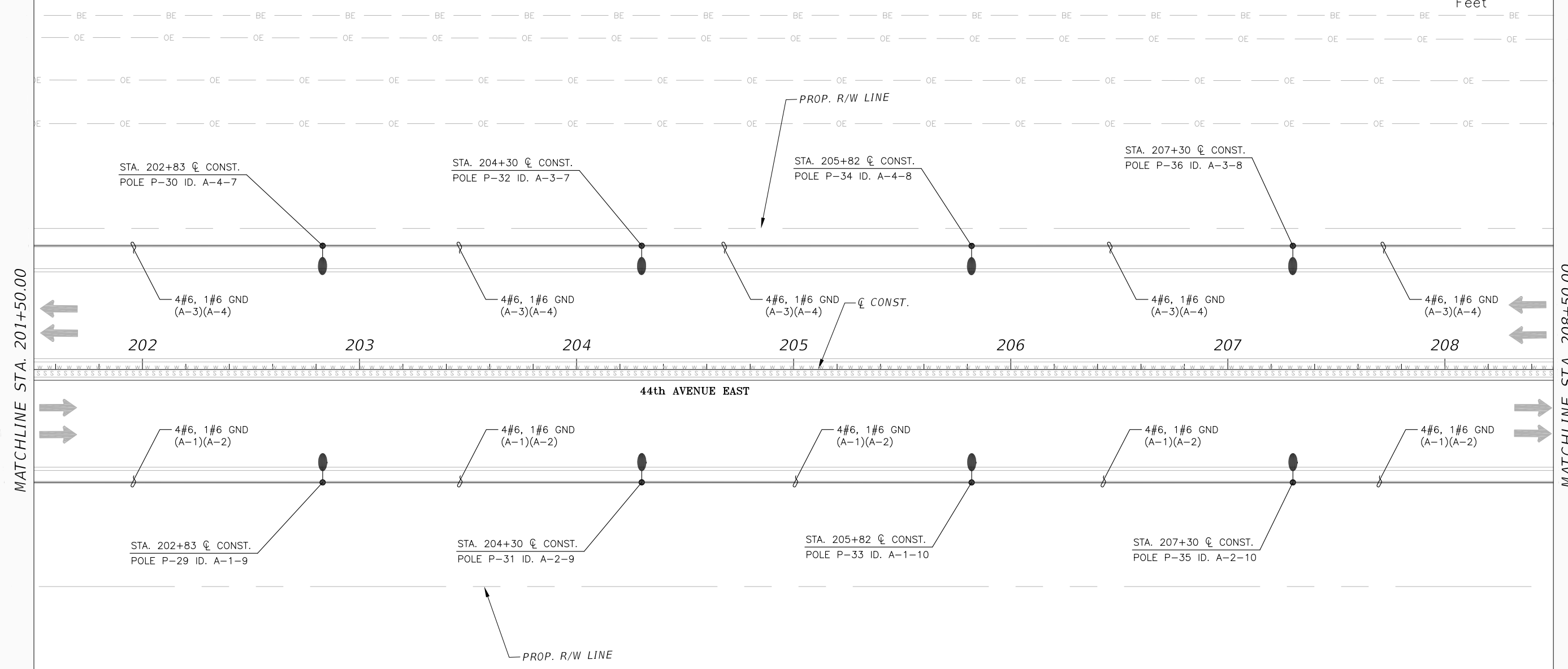
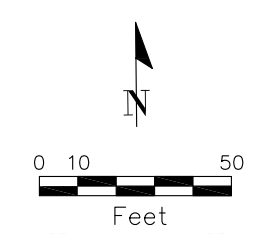


No.	REVISIONS	DATE	BY	SCALE	DESIGNED BY AS NOTED	DATE	PROJECT NO.	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Grimaldo, Herman	DESIGN ENGINEER HENRYK B. JUSZCZYK, P.E. FL. LICENSE NO. 58082	SHEET NO. L-15
				CHECKED BY P. PASTORE						

**LIGHTING PLANS (6)**


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



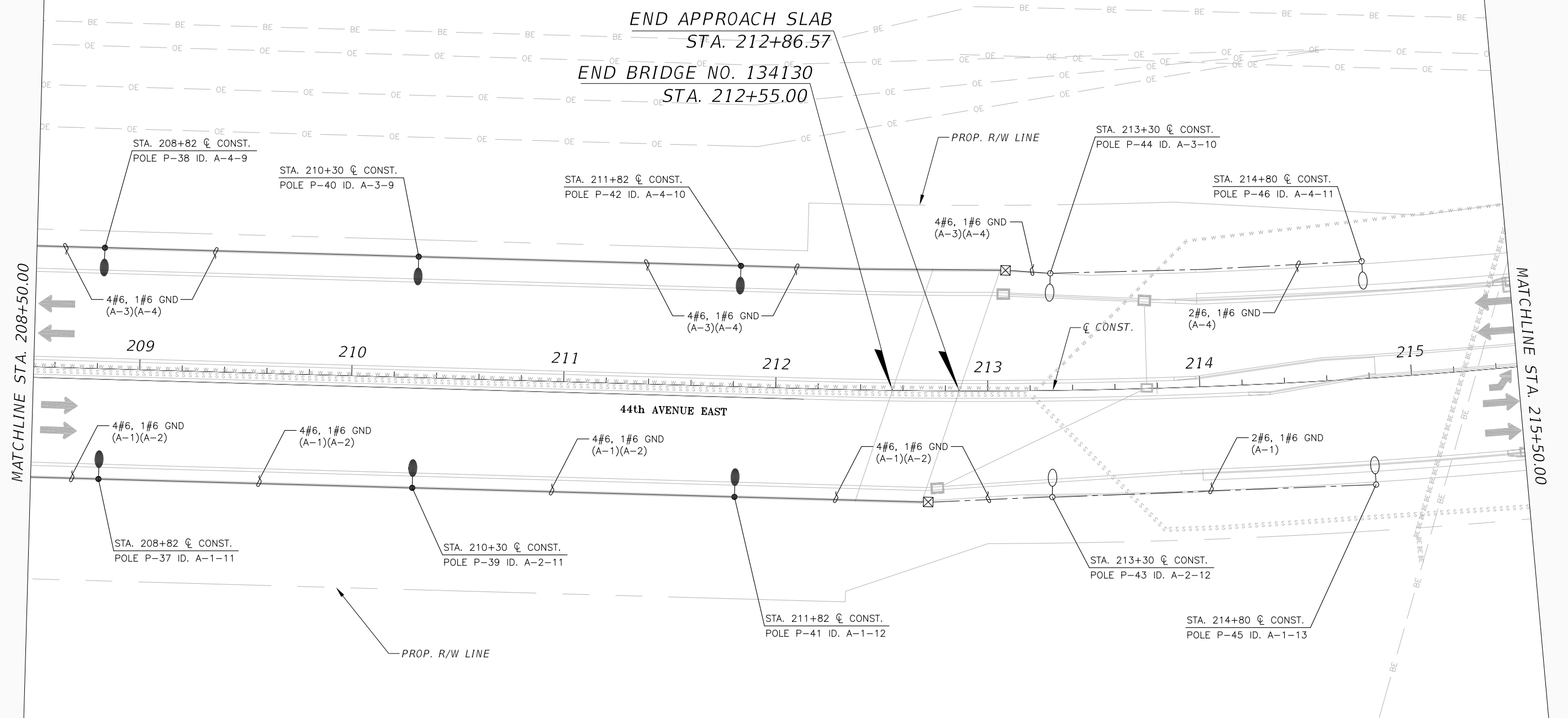
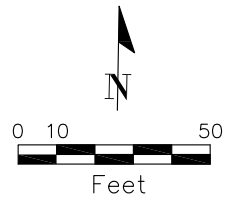


MATCHLINE STA. 201+50.00


MATCHLINE STA. 208+50.00

				SCALE	AS NOTED	DESIGNED BY	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082	DATE	02/16/2018	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E.	<b>LIGHTING PLANS (7)</b>	SHEET NO.
				DRAWN BY	H. JUSZCZYK	TAMPA, FL 33607-1462	PROJECT NO.	6086960	FL. LICENSE NO.		58082	L-16		
				CHECKED BY	H. GRIMALDO	(813) 286-1711								
No.	REVISIONS	DATE	BY		P. PASTORE	CERTIFICATE OF AUTHORIZATION: 8115								

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

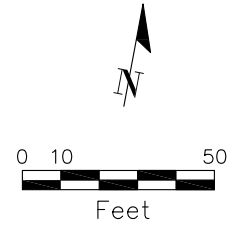
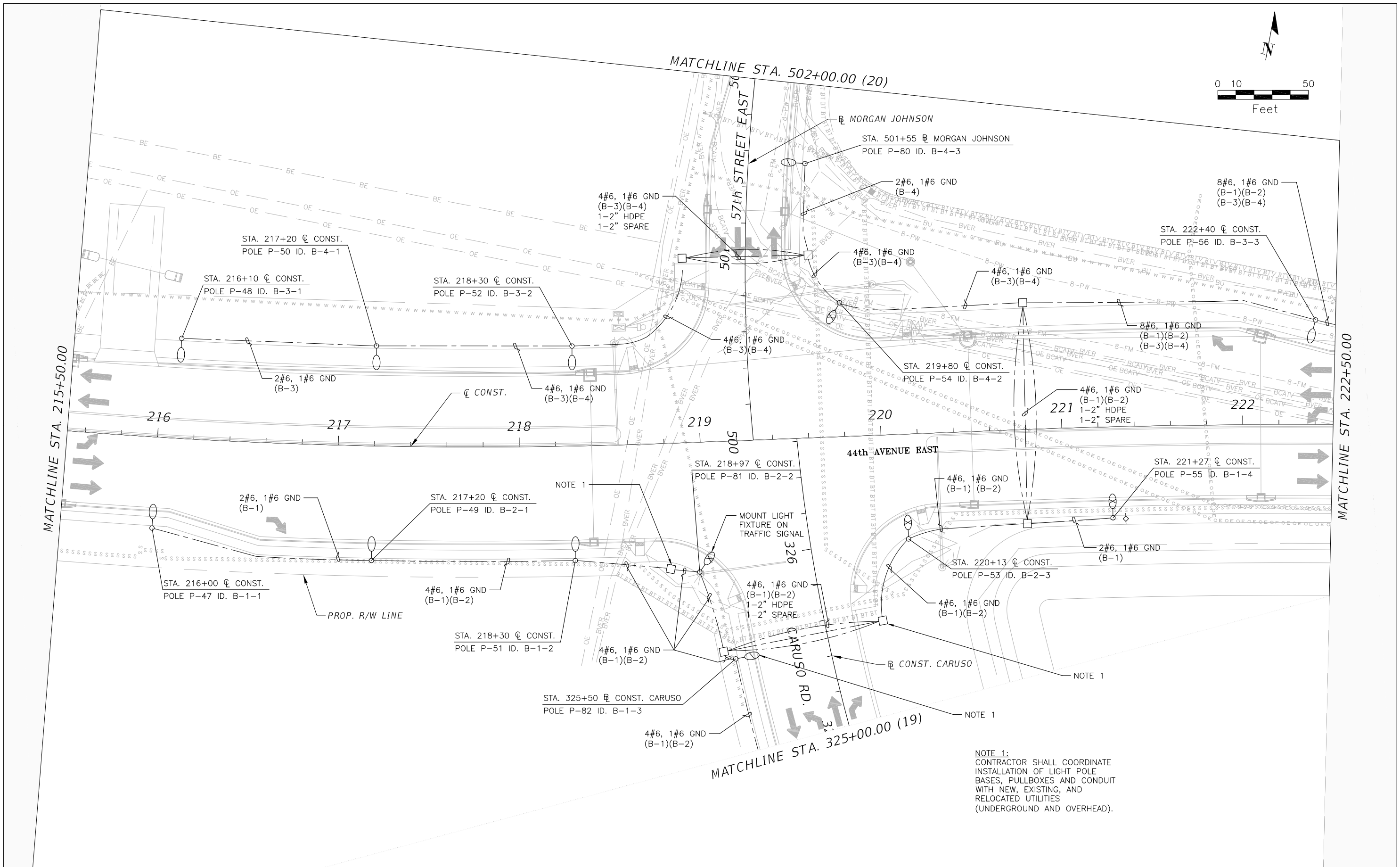


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.


				SCALE	AS NOTED	DESIGNED BY	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082	DATE	02/16/2018	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Grimaldo, Herman	DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E. FL. LICENSE NO. 58082	<b>LIGHTING PLANS (8)</b>	SHEET NO.
				DRAWN BY	H. JUSZCZYK	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711	PROJECT NO.	6086960	CHECKED BY		P. PASTORE	CERTIFICATE OF AUTHORIZATION: 8115		
No.	REVISIONS			DATE	BY									

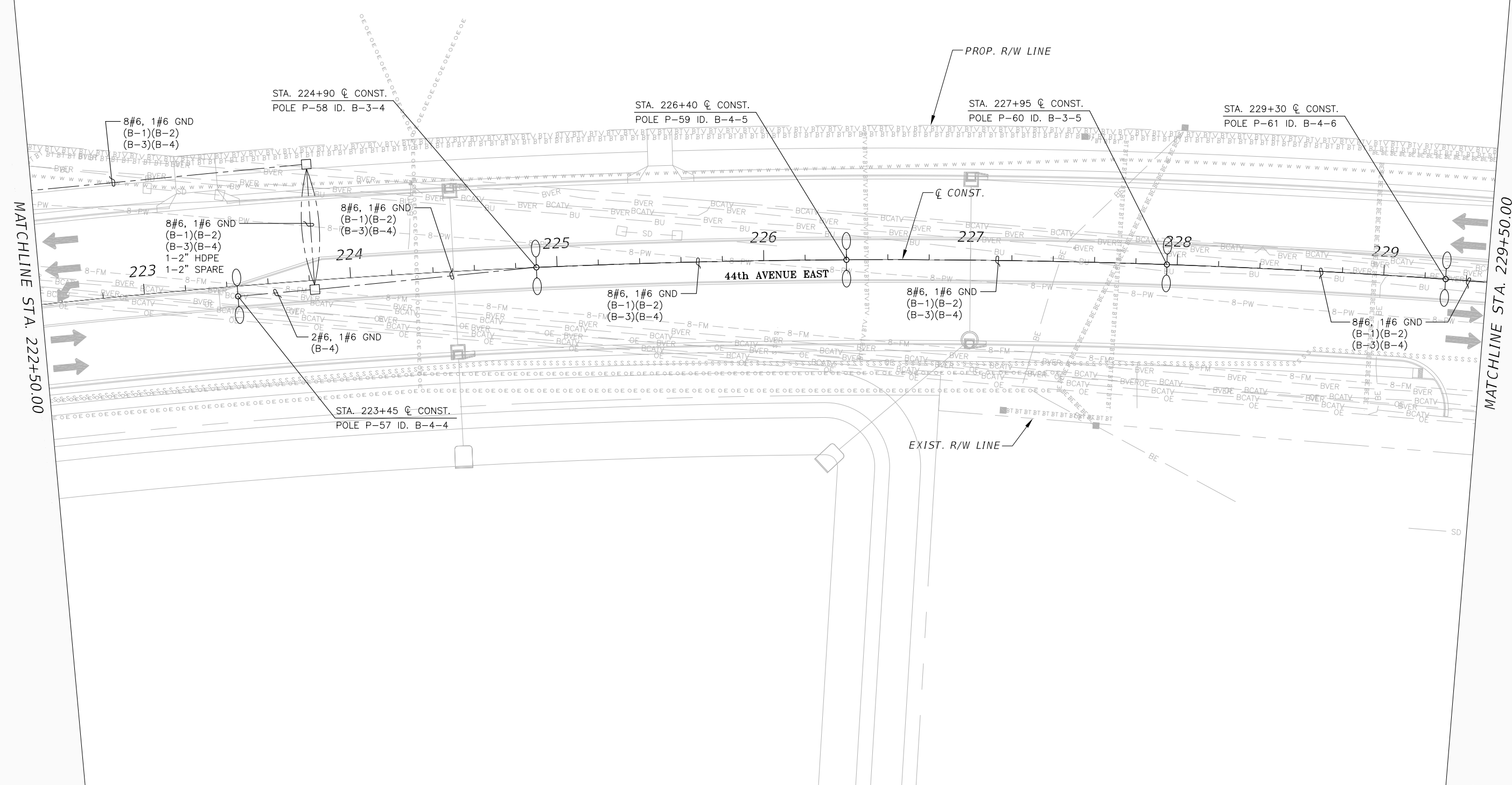
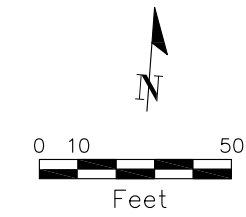
2/14/2019 11:17:12 AM

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

SCALE: AS NOTED DESIGNED BY: H. JUSZCZYK DRAWN BY: H. GRIMALDO CHECKED BY: P. PASTORE				HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082 AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711 CERTIFICATE OF AUTHORIZATION: 8115		DATE: 02/16/2018 PROJECT NO.: 6086960		 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Grimaldo, Herman		DESIGN ENGINEER: HENRYK B. JUSZCZYK, P.E. FL. LICENSE NO.: 58082		SHEET NO.: <b>LIGHTING PLANS (9)</b> L-18	
No. REVISIONS DATE BY													



No.	REVISIONS	DATE	BY

SCALE	AS NOTED
DESIGNED BY	H. JUSZCZYK
DRAWN BY	H. GRIMALDO
CHECKED BY	P. PASTORE

HENRYK B. JUSZCZYK, P.E.  
 P.E. NO. 58082  
 AECOM TECHNICAL SERVICES, INC.  
 7650 WEST COURTNEY CAMPBELL CAUSEWAY  
 TAMPA, FL 33607-1462  
 (813) 286-1711  
 CERTIFICATE OF AUTHORIZATION: 8115

DATE  
02/16/2018

PROJECT NO.  
6086960

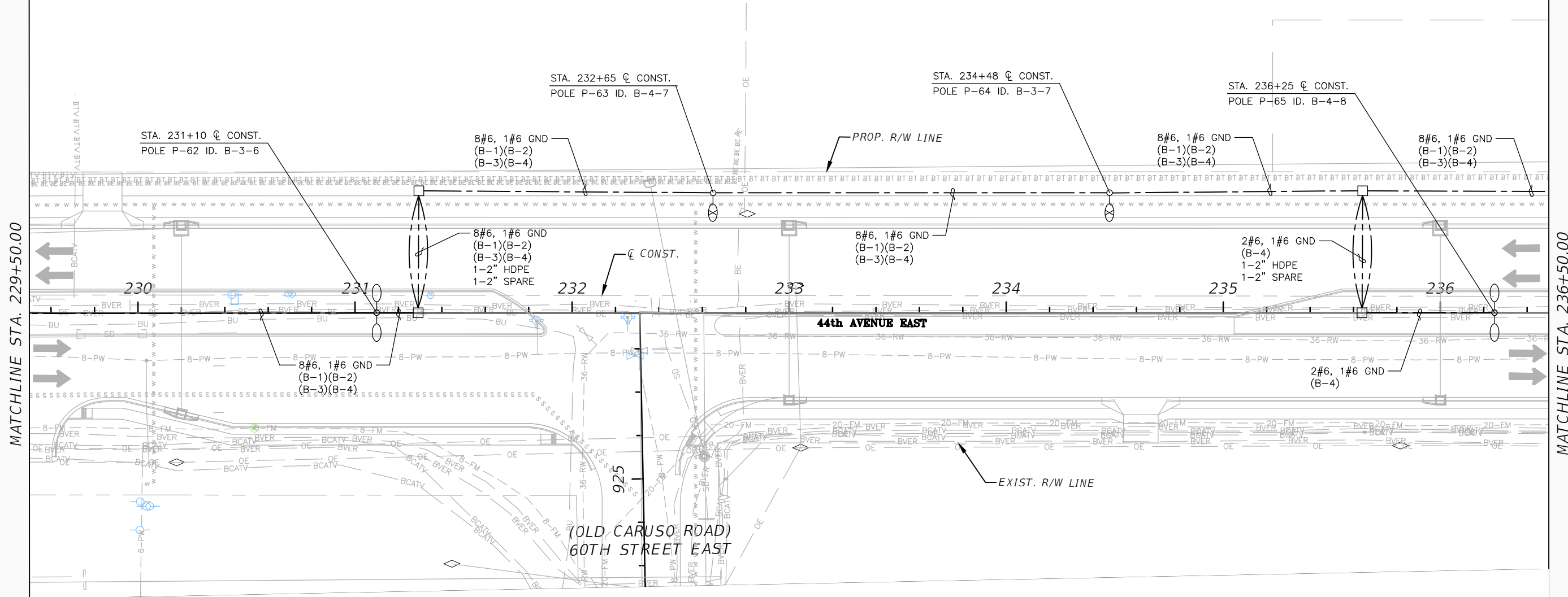
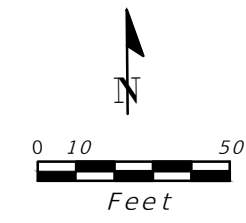


DESIGN ENGINEER  
 HENRYK B. JUSZCZYK, P.E.  
 FL. LICENSE NO.  
 58082

**LIGHTING PLANS (10)**


SHEET NO.  
L-19

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

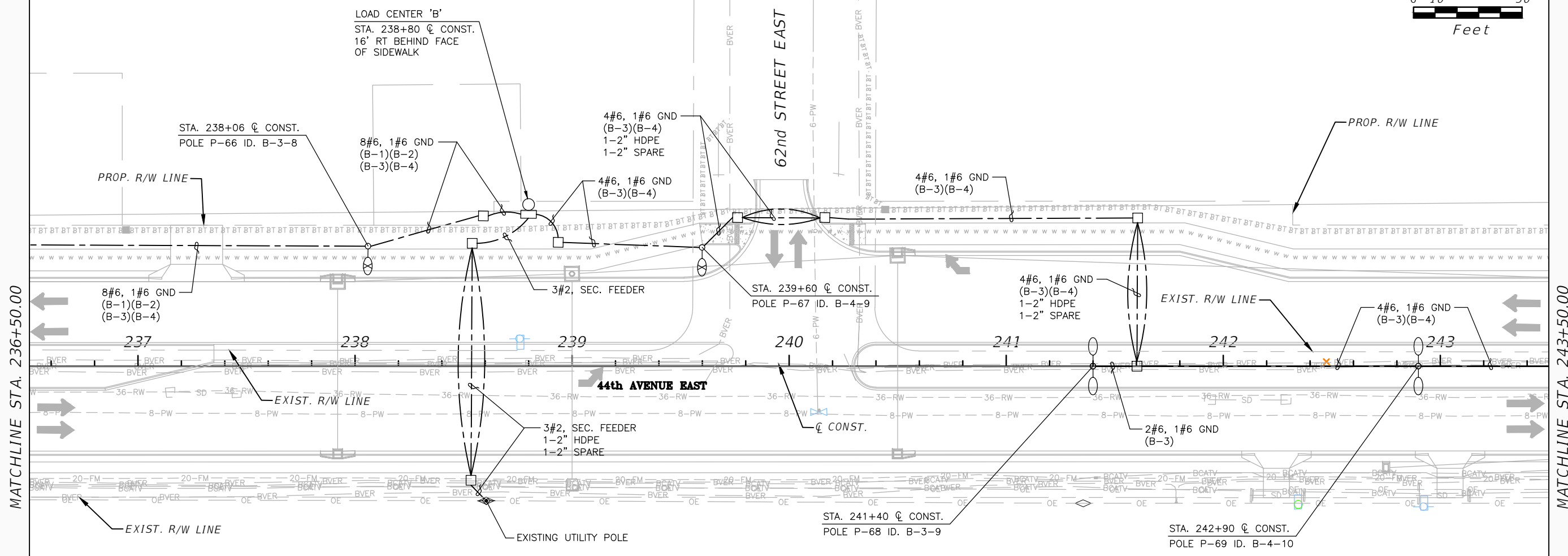
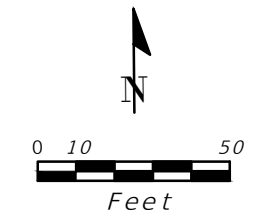


MATCHLINE STA. 229+50.00

MATCHLINE STA. 236+50.00

				SCALE	AS NOTED	DESIGNED BY	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082	DATE	02/16/2018	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Floyd, Cindy	DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E.	<b>LIGHTING PLANS (11)</b>	SHEET NO.
				DRAWN BY	H. JUSZCZYK	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462	PROJECT NO.	6086960	FL. LICENSE NO.		58082	L-20		
				CHECKED BY	H. GRIMALDO	(813) 286-1711								
No.	REVISIONS			DATE	BY	P. PASTORE	CERTIFICATE OF AUTHORIZATION: 8115							

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



MATCHLINE STA. 236+50.00

MATCHLINE STA. 243+50.00

No.	REVISIONS	DATE	BY

SCALE	AS NOTED
DESIGNED BY	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082
DRAWN BY	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462
CHECKED BY	H. GRIMALDO
	P. PASTORE
	CERTIFICATE OF AUTHORIZATION: 8115

DATE	02/16/2018
PROJECT NO.	6086960

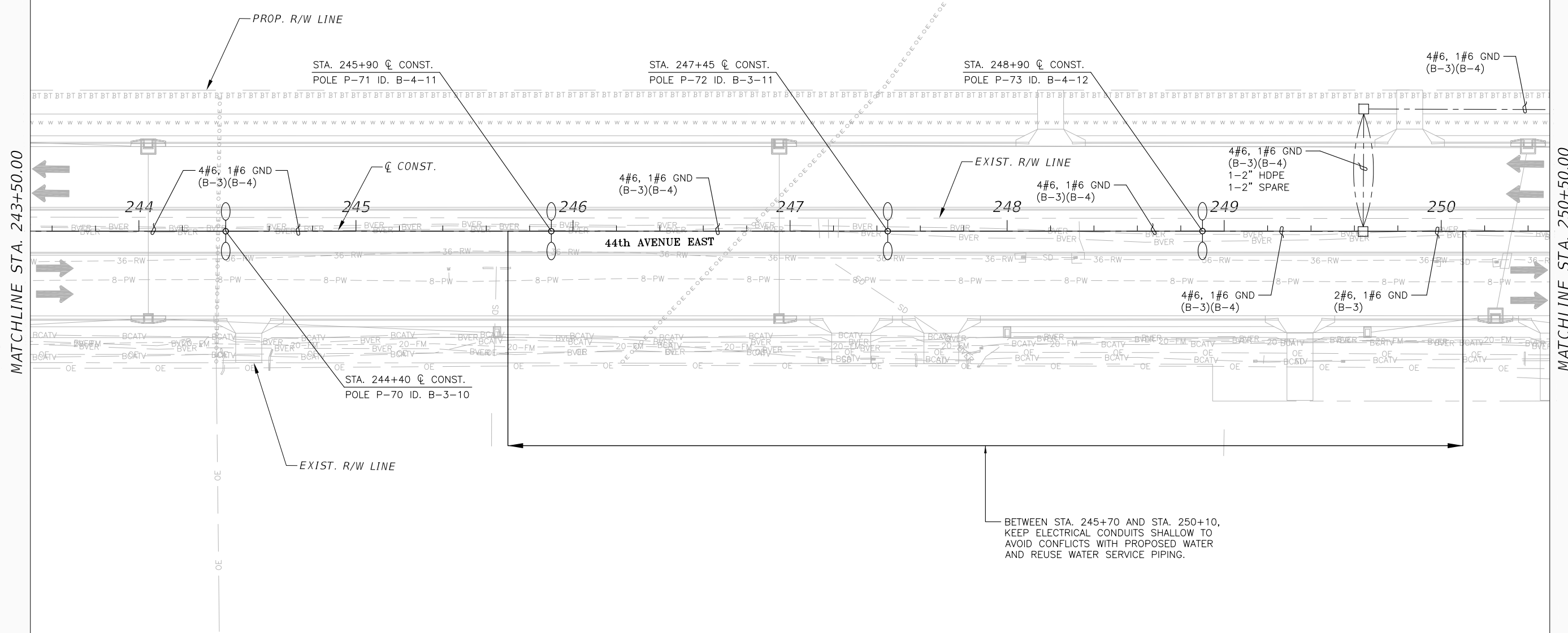
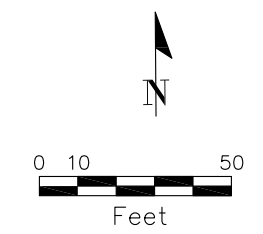


DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E.
FL. LICENSE NO.	58082

**LIGHTING PLANS (12)**


SHEET NO.	L-21
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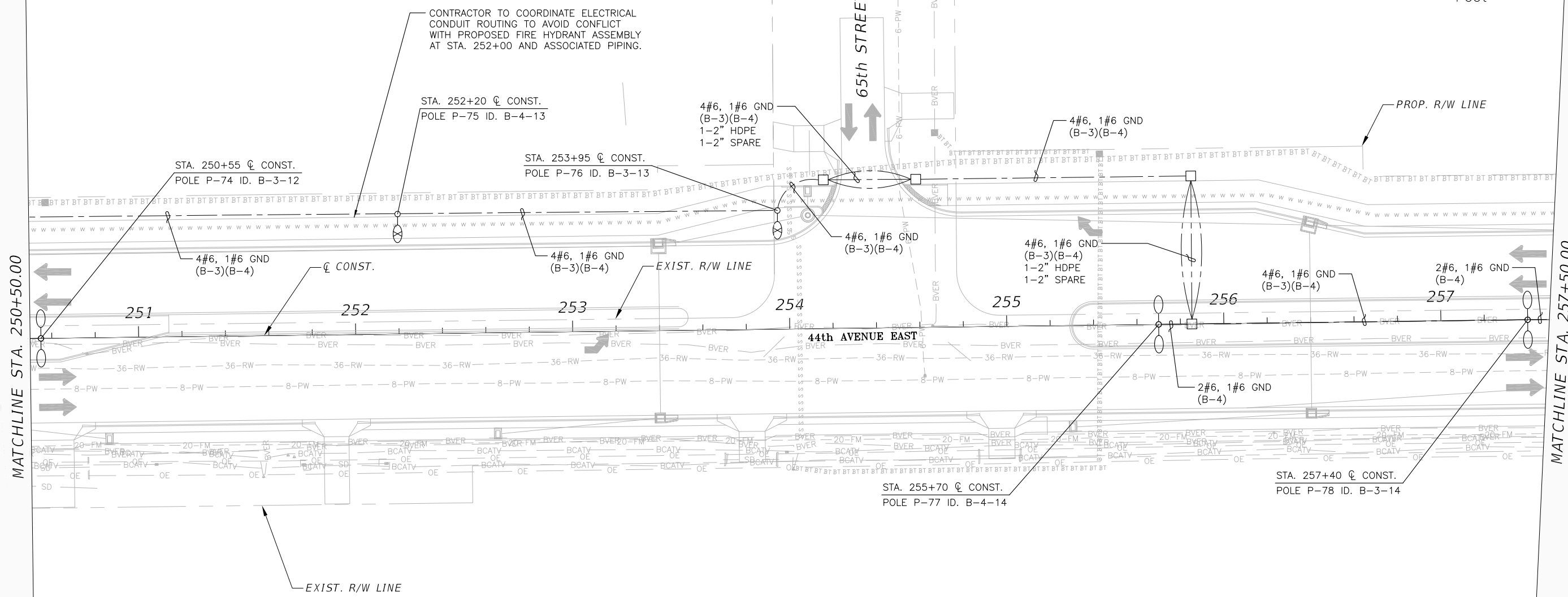
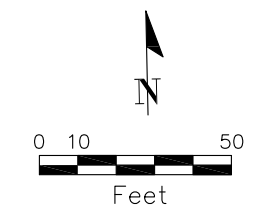


MATCHLINE STA. 243+50.00

MATCHLINE STA. 250+50.00


				SCALE	AS NOTED	DESIGNED BY	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082	DATE	02/16/2018	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 <small>Grimaldo, Herman</small>	DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E. FL. LICENSE NO. 58082	<b>LIGHTING PLANS (13)</b>	SHEET NO.
				DRAWN BY	H. JUSZCZYK	PROJECT NO.	6086960							
				CHECKED BY	H. GRIMALDO									
No.	REVISIONS			DATE	BY	P. PASTORE	CERTIFICATE OF AUTHORIZATION: 8115							

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

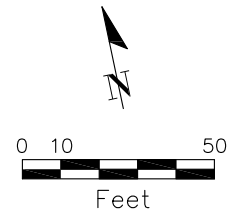


MATCHLINE STA. 250+50.00

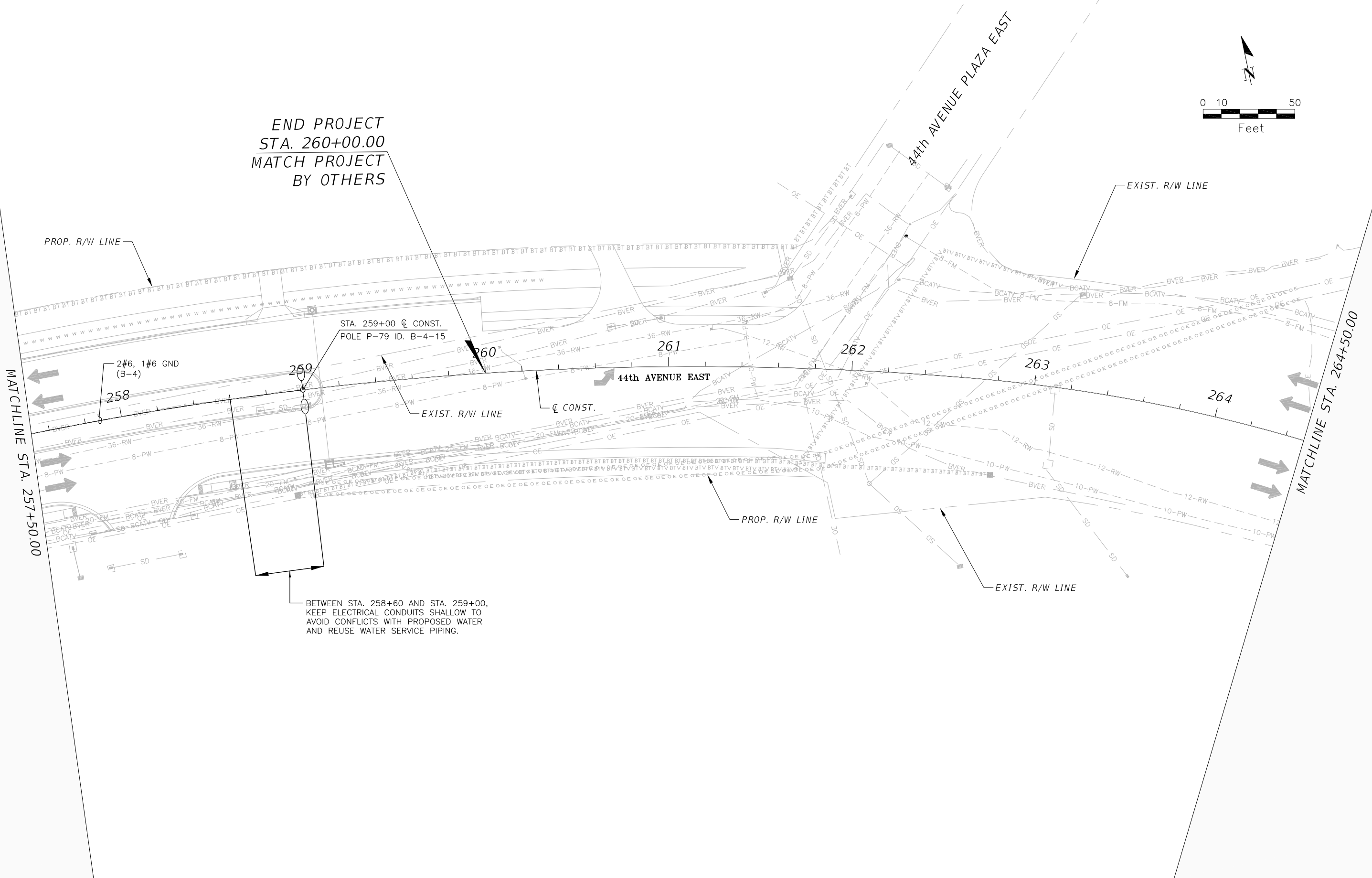
MATCHLINE STA. 257+50.00

SCALE				AS NOTED		DATE		 DESIGN ENGINEER HENRYK B. JUSZCZYK, P.E. FL. LICENSE NO. 58082		SHEET NO.  L-23	
DESIGNED BY				HENRYK B. JUSZCZYK, P.E.		02/16/2018					
DRAWN BY				H. JUSZCZYK		PROJECT NO.		<b>LIGHTING PLANS (14)</b>			
CHECKED BY				H. GRIMALDO		6086960					
NO.				P. PASTORE							
REVISIONS				HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082 AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711 CERTIFICATE OF AUTHORIZATION: 8115		2/14/2019 11:19:17 AM		THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.			






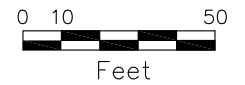
END PROJECT  
STA. 260+00.00  
MATCH PROJECT  
BY OTHERS



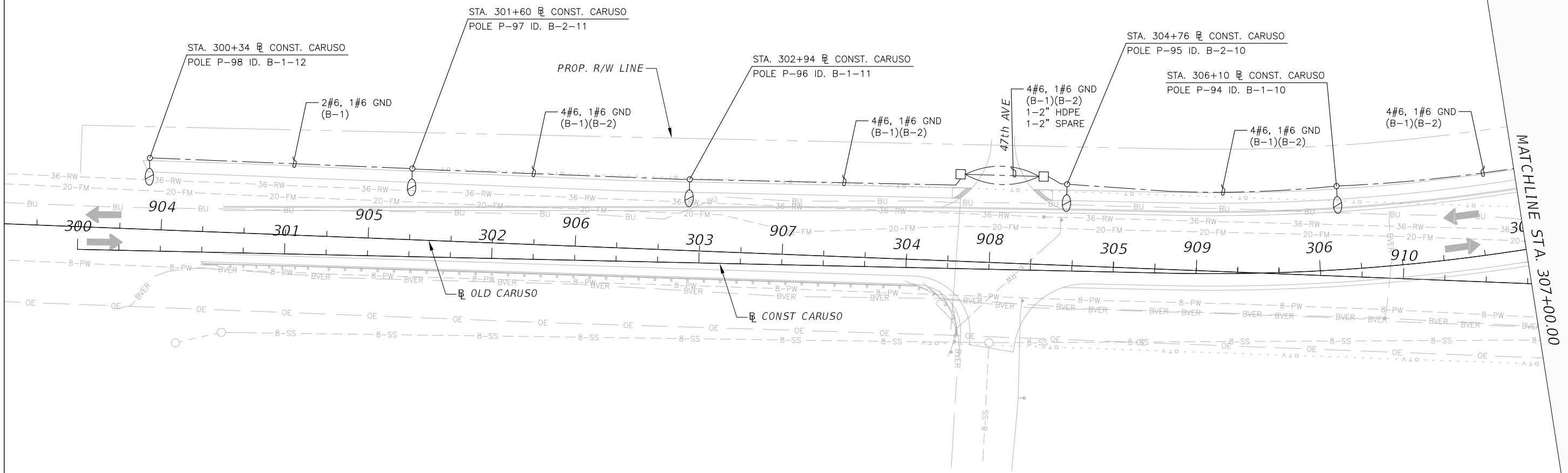
BETWEEN STA. 258+60 AND STA. 259+00,  
KEEP ELECTRICAL CONDUITS SHALLOW TO  
AVOID CONFLICTS WITH PROPOSED WATER  
AND REUSE WATER SERVICE PIPING.


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

				SCALE AS NOTED	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082 AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711 CERTIFICATE OF AUTHORIZATION: 8115	DATE 02/16/2018	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Grimaldo, Herman	DESIGN ENGINEER HENRYK B. JUSZCZYK, P.E. FL. LICENSE NO. 58082	<b>LIGHTING PLANS (15)</b>	SHEET NO.	
				DRAWN BY H. GRIMALDO		PROJECT NO. 6086960					
				CHECKED BY P. PASTORE							L-24
No.	REVISIONS	DATE	BY								

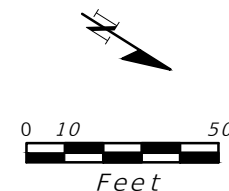


CARUSO RD

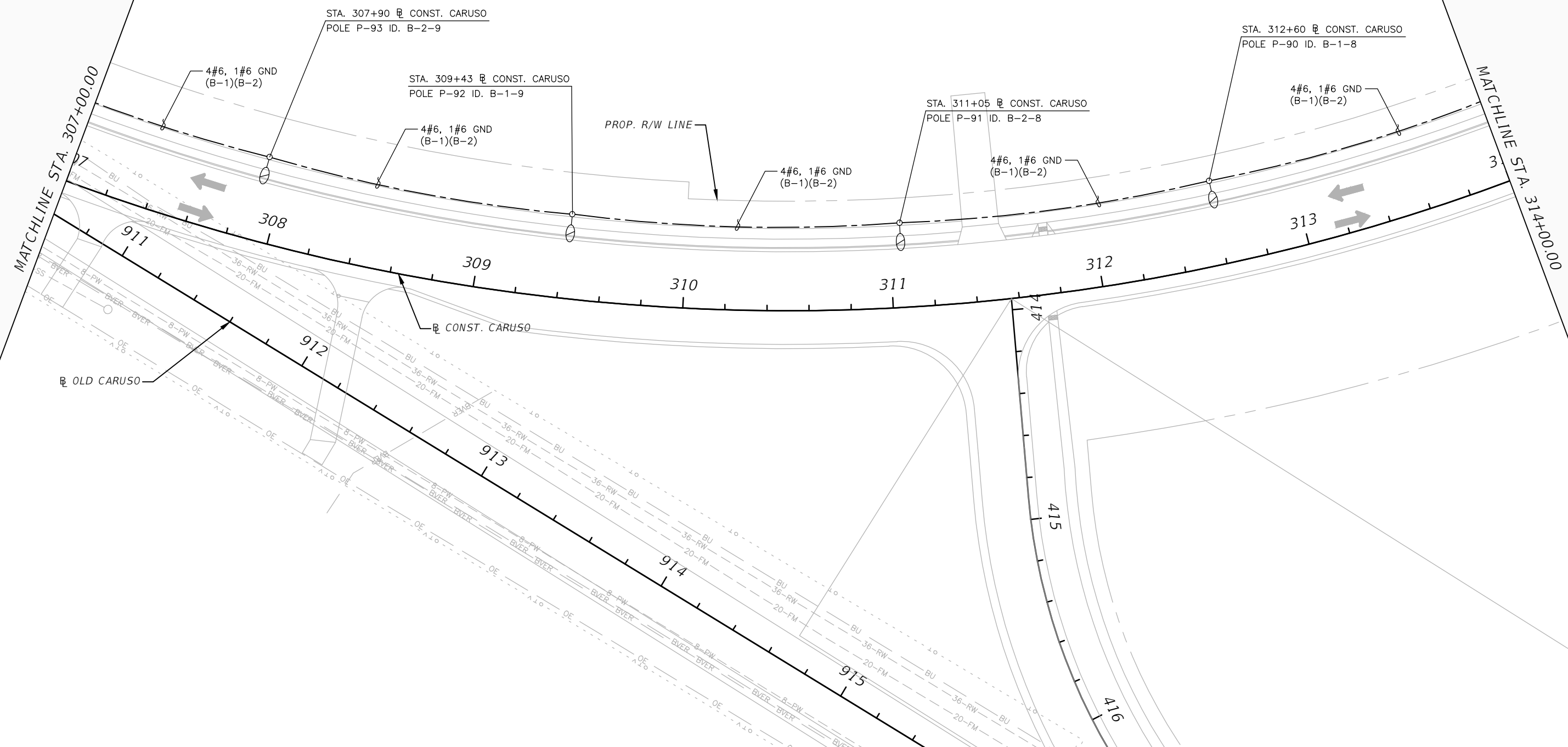



				SCALE	AS NOTED	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082 AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711 CERTIFICATE OF AUTHORIZATION: 8115	DATE	02/16/2018	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E.	<b>LIGHTING PLANS (16)</b>	SHEET NO.	
				DESIGNED BY	H. JUSZCZYK		PROJECT NO.	6086960		FL. LICENSE NO.	58082		L-25	
				DRAWN BY	H. GRIMALDO									
				CHECKED BY	P. PASTORE									
No.	REVISIONS			DATE	BY									

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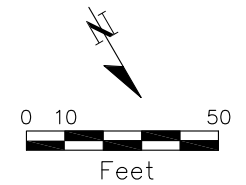


CARUSO RD



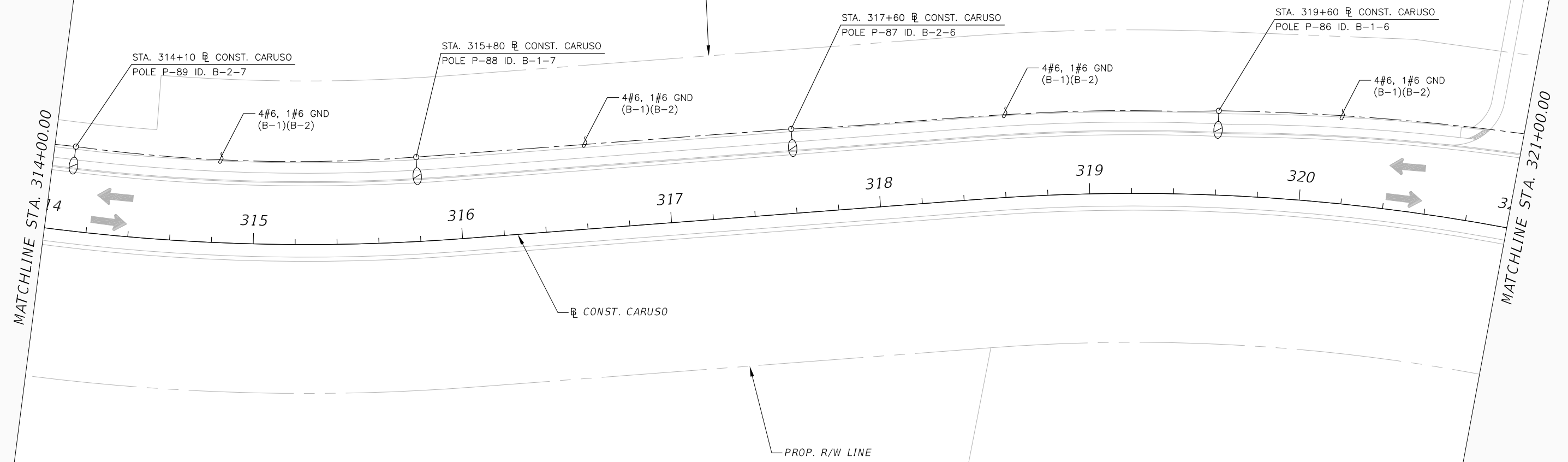
				SCALE	AS NOTED	DESIGNED BY	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082	DATE	02/16/2018	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208 Floyd, Cindy	DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E.	<b>LIGHTING PLANS (17)</b>	SHEET NO.
				DRAWN BY	H. JUSZCZYK	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711	PROJECT NO.	6086960	FL. LICENSE NO.		58082	L-26		
				CHECKED BY	H. GRIMALDO	CERTIFICATE OF AUTHORIZATION: 8115								
No.	REVISIONS			DATE	BY	P. PASTORE								

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CARUSO RD

PROP. R/W LINE



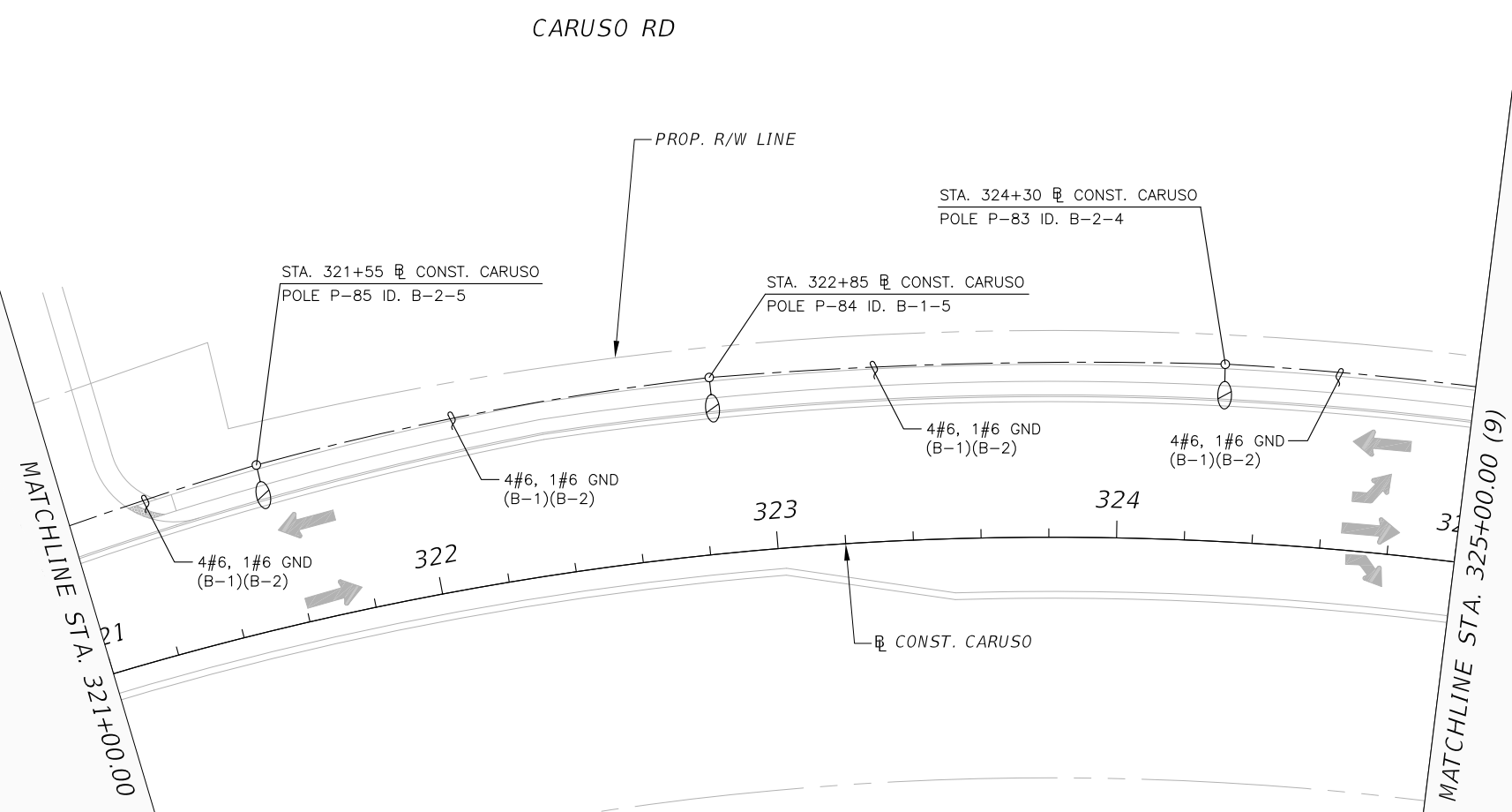
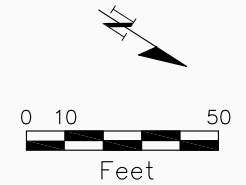
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				SCALE	AS NOTED	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082	DATE	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E. FL. LICENSE NO. 58082	<b>LIGHTING PLANS (18)</b>	SHEET NO.
				DESIGNED BY	H. JUSZCZYK	7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711 CERTIFICATE OF AUTHORIZATION: 8115	02/16/2018		PROJECT NO.			6086960
				DRAWN BY	H. GRIMALDO							
				CHECKED BY	P. PASTORE							
No.	REVISIONS			DATE	BY							

Grimaldo, Herman

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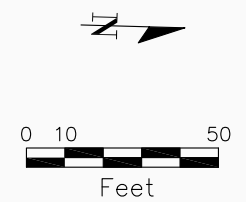
				SCALE	AS NOTED	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082	DATE	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	DESIGN ENGINEER	<b>LIGHTING PLANS (19)</b>	SHEET NO.
				DESIGNED BY	H. JUSZCZYK	AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711	02/16/2018		HENRYK B. JUSZCZYK, P.E.		L-28
				DRAWN BY	H. GRIMALDO	CERTIFICATE OF AUTHORIZATION: 8115	PROJECT NO.		FL. LICENSE NO.		
No.	REVISIONS	DATE	BY	CHECKED BY	P. PASTORE		6086960	58082			

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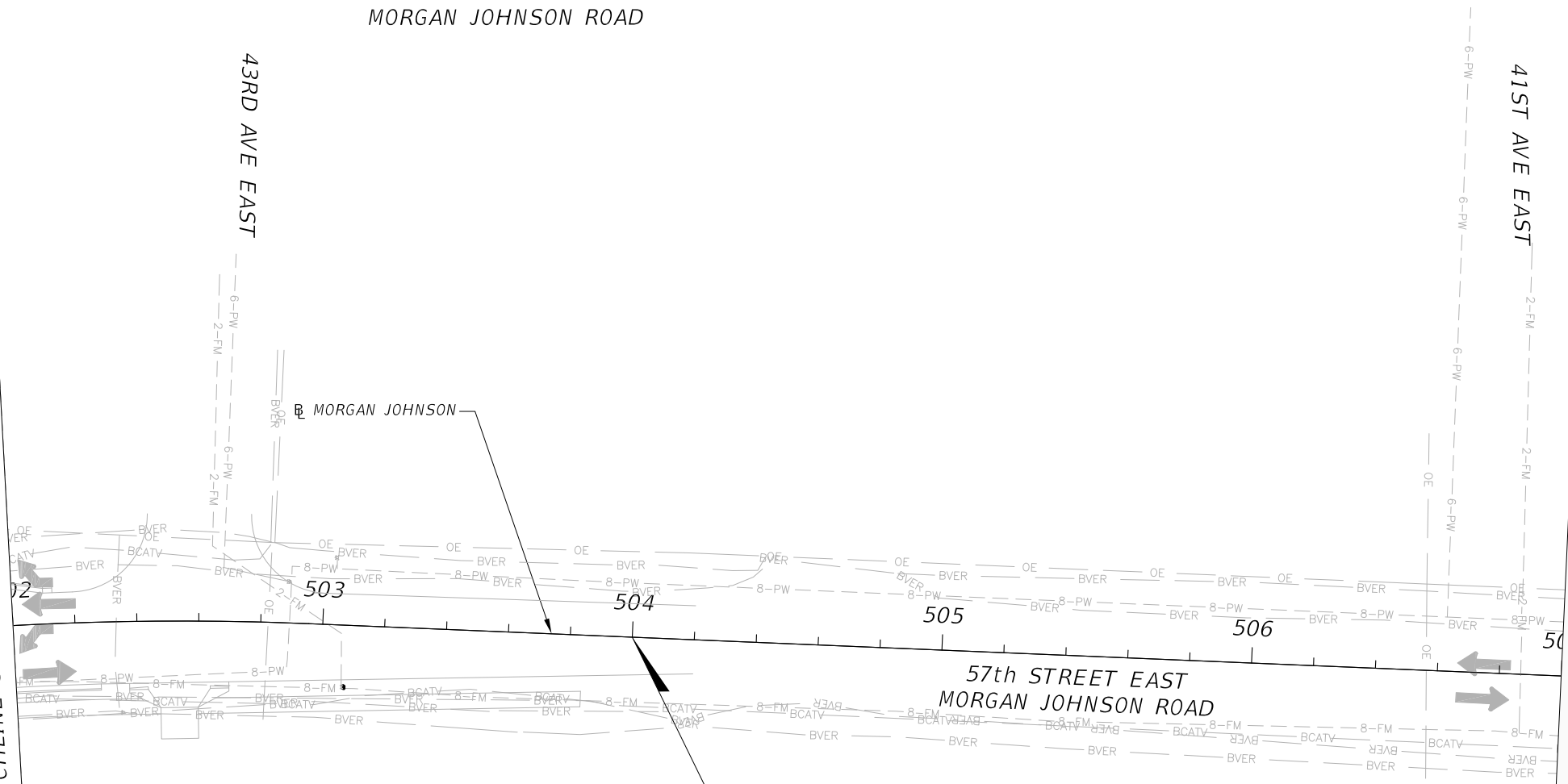
MORGAN JOHNSON ROAD

43RD AVE EAST


41ST AVE EAST



MATCHLINE STA. 502+00.00 (9)



END CONST.  
STA. 504+00.00  
MATCH EXIST.

				SCALE	AS NOTED	HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082 AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711 CERTIFICATE OF AUTHORIZATION: 8115	DATE	02/16/2018	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E.	LIGHTING PLANS (20)	SHEET NO.	
				DESIGNED BY	H. JUSZCZYK		PROJECT NO.	6086960		FL. LICENSE NO.	58082		L-29	
				DRAWN BY	H. GRIMALDO									
				CHECKED BY	P. PASTORE									
No.	REVISIONS			DATE	BY									

Grimaldo, Herman

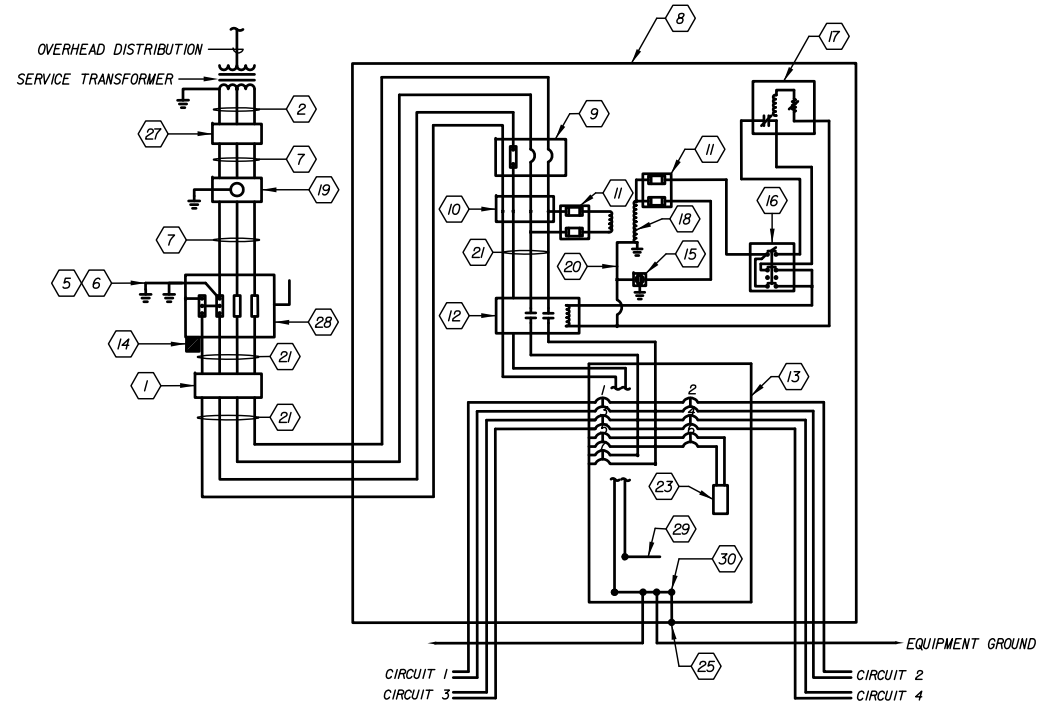
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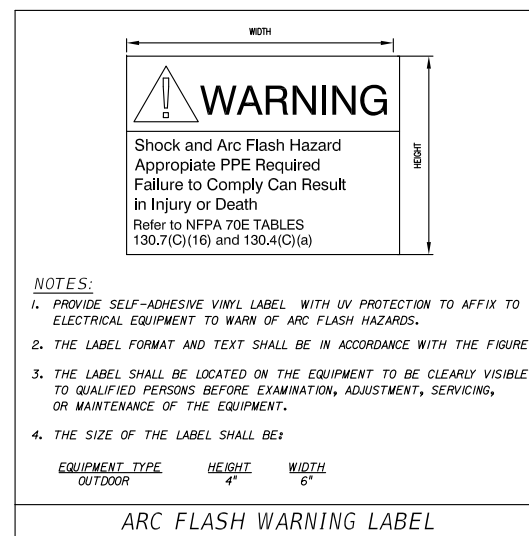
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**GENERAL NOTES:**

- PERFORM ALL ELECTRICAL WORK IN ACCORDANCE WITH LOCAL POWER COMPANY REQUIREMENTS, FDOT STANDARDS AND SPECIFICATIONS, NEC, NESC, OSHA, AND MANATEE COUNTY LOCAL REQUIREMENTS.
- SEE PLAN SHEET FOR APPROXIMATE LOCATION OF THE POINT OF CONNECTION. COORDINATE WITH THE LOCAL POWER COMPANY (FP&L) FOR THE SERVICE SOURCE AND POINT OF CONNECTIONS EXACT LOCATIONS AND THE NECESSARY REQUIREMENTS FOR A COMPLETE AND OPERATIONAL ELECTRICAL POWER SERVICE.
- ALL CIRCUIT BREAKERS SHALL HAVE SYMMETRICAL MINIMUM SHORT CIRCUIT CAPACITY OF 14,000 AMPS.
- LOAD CENTER ENCLOSURE SHALL BE FACTORY ASSEMBLED AND TESTED PRIOR TO SHIPMENT TO THE PROJECT SITE FOR INSTALLATION. ALL COMPONENT DEVICES SHALL BE UL LISTED AND LABELED. THE FULLY ASSEMBLED LOAD CENTER ENCLOSURE SHALL BE CERTIFIED BY UL. LOAD CENTER ASSEMBLY SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF FDOT DESIGN STANDARD INDEX.
- FURNISH AND INSTALL THE 3-POLE LIGHTING CONTACTOR FOR 2-POLE APPLICATION IF NECESSARY. SEE KEY NOTE NO. 12 FOR MORE INFORMATION.
- THE ELECTRICAL COMPONENTS LAYOUT SHOWN IN RISER DIAGRAM AND WIRING SCHEMATIC DETAIL ARE DIAGRAMMATIC, TAKE RESPONSIBILITY TO INSTALL THE WHOLE SYSTEM IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NEC AND LOCAL POWER COMPANY (FP&L) REQUIREMENTS.
- ENSURE NO LIVE PARTS ARE EXPOSED.
- REFER TO SHEET L-31 FOR PANELBOARD SCHEDULES.
- CONTACT MR. GREG COCKER AT FLORIDA POWER & LIGHT (FP&L) FOR UTILITY POWER SERVICE INFORMATION AT 941-704-9087. CONTRACTOR SHALL COORDINATE WITH LOCAL POWER COMPANY'S REPRESENTATIVE TO MAKE SURE THE PROPOSED SIZE OF THE POWER SERVICE TRANSFORMER IS ADEQUATE BASED ON THE LOAD INFORMATION PROVIDED IN THE PANELBOARD SCHEDULE.

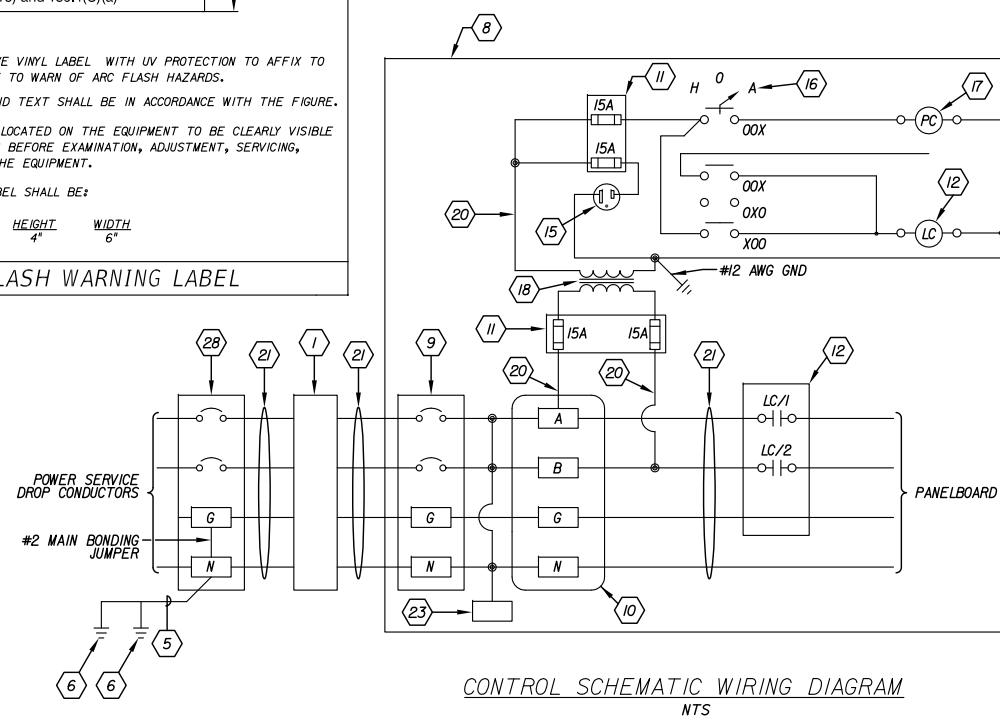


**WIRING SCHEMATIC DETAIL**  
N.T.S.



- NOTES:**
- PROVIDE SELF-ADHESIVE VINYL LABEL WITH UV PROTECTION TO AFFIX TO ELECTRICAL EQUIPMENT TO WARN OF ARC FLASH HAZARDS.
  - THE LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE WITH THE FIGURE.
  - THE LABEL SHALL BE LOCATED ON THE EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS BEFORE EXAMINATION, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
  - THE SIZE OF THE LABEL SHALL BE:
- | EQUIPMENT TYPE | HEIGHT | WIDTH |
|----------------|--------|-------|
| OUTDOOR        | 4"     | 6"    |

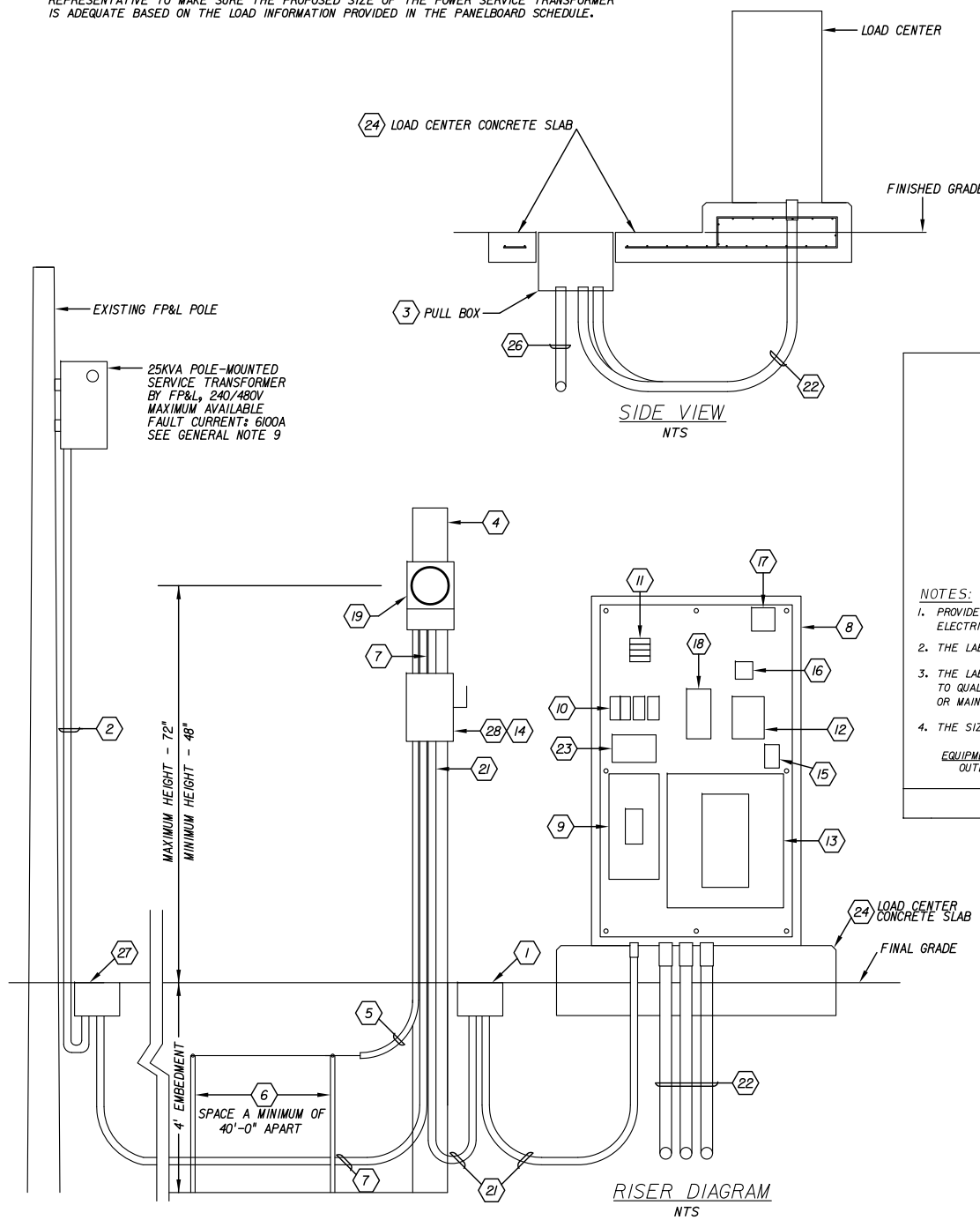
**ARC FLASH WARNING LABEL**



**CONTROL SCHEMATIC WIRING DIAGRAM**  
N.T.S.

**KEYED NOTES:**

- PROVIDE A PULL BOX AT THE BASE OF THE SERVICE PEDESTAL. PULL BOX COVER LID SHALL BE MARKED "ELECTRIC".
- SERVICE LATERAL CONDUCTORS IN 2 1/2" RIGID CONDUIT BY FP&L, 240/480V, SINGLE PHASE, THREE WIRE.
- PROVIDE PULL BOX(ES) PER FDOT STANDARD SPECIFICATIONS AND NEC. PULL BOX COVER LID SHALL READ "STREET LIGHTING".
- NEW 12" PRESTRESSED CONCRETE PEDESTAL, TYPE P-II, DIRECT BURIAL, WITH MINIMUM 4'-0" EMBEDDED BELOW FINAL GRADE
- PROVIDE #2 AWG BARE STRANDED COPPER GROUNDING CONDUCTOR IN 1" SCH. 80 PVC CONDUIT. BOND GROUNDING CONDUCTOR TO TOP OF GROUND ROD(S) VIA THE EXOTHERMIC WELDING PROCESS.
- COPPER CLAD GROUND RODS 5/8" DIAMETER BY 10' SECTIONAL USING 40' LONG AT EACH GROUND ROD LOCATION. PROVIDE (4) 10' SECTIONAL RODS FOR A TOTAL OF 40' AS A MINIMUM INSTALLED 12" UNDER FINAL GRADE, AT LEAST 20' APART AND BONDED TOGETHER WITH #2 AWG TIN PLATED COPPER BARE CONDUCTOR BY EXOTHERMIC WELDING. ALL GROUNDING RODS SHALL BE INTERCONNECTED USING #2 AWG BARE COPPER GROUNDING CONDUCTOR.
- 2 #2 AWG SERVICE-ENTRANCE PHASE CONDUCTORS WITH RHW-2 XLP INSULATION AND 1 #2 AWG GROUNDING CONDUCTOR WITH RHW-2 XLP INSTALLATION IN 2" SCH 80 FOR UNDERGROUND AND RGS FOR ABOVE GROUND CONDUITS. UNDERGROUND CONDUITS SHALL BE BURIED 30" MINIMUM BELOW GRADE.
- PROVIDE BASE MOUNT NEMA 4X, OPEN BOTTOM, SINGLE CONTINUOUS HINGED DOOR ENCLOSURE WITH BACK PANEL, 3-POINT T-HANDLE LATCHING MECHANISM WITH PLASTIC OR RUBBER ROLLER GUIDES, AND PAD LOCK HASP. ENCLOSURE AND BACK PANEL SHALL BE FABRICATED FROM MINIMUM 12 GAUGE 316 STAINLESS STEEL STOCK, AND ALL HARDWARE SHALL BE STAINLESS STEEL. DIMENSIONS SHALL BE AS REQUIRED TO ACCOMMODATE THE COMPONENT DEVICES AND MATERIALS SPECIFIED TO BE INSTALLED INSIDE. LOAD CENTER CABINET SHALL HAVE MINIMUM DIMENSIONS 55"HX60"WX18"D.
- PROVIDE 600V, THERMAL-MAGNETIC 100 AMP MAIN CIRCUIT BREAKER WITH 14,000 AIC AS MIN, LISTED AS SUITABLE FOR USE AS SERVICE ENTRANCE EQUIPMENT, WITH SOLID-NEUTRAL KIT AND NEMA TYPE 1 ENCLOSURE. PROVIDE 2 1/2" CHASE NIPPLES IN TOP AND BOTTOM OF ENCLOSURE.
- PROVIDE TIN PLATED COPPER, 600V, (1) #4-500KCMIL (LINE-SIDE), (6) #14-#2 (LOAD-SIDE), PANEL MOUNT POWER DISTRIBUTION BLOCKS (PDB) SUITABLE FOR USE WITH COPPER CONDUCTORS. PROVIDE ONE 2P PDB (A AND B PHASES), ONE 1P PDB (NEUTRAL), AND ONE 1P PDB (GROUND).
- PROVIDE TIN PLATED COPPER ALLOY, 30A, 600V FUSE HOLDERS SUITABLE FOR USE WITH CLASS CC FUSES. PROVIDE ONE 2P FUSE HOLDER WITH TWO (2) 15A, 600V, CLASS CC FUSES USED ON THE PRIMARY SIDE OF CONTROL TRANSFORMER, ONE 2P FUSE HOLDER WITH TWO (2) 15A, 600V, CLASS CC FUSES FOR CONTROL CIRCUIT AND RECEPTACLE.
- PROVIDE 600V, 2P, 100 AMP ELECTRICALLY HELD, OPEN (PANEL MOUNT) LIGHTING CONTACTOR WITH 120V COIL.
- PROVIDE 240/480V, 1PH., 3W., 14,000 AIC MLO PANELBOARD WITH COPPER BUSSING. ALL MAIN AND BRANCH BREAKERS, BUSSING AND FEED THROUGH LUGS SHALL BE FULLY RATED. PANELBOARD SHALL BE IN COMPLIANCE WITH UL 67 AND NEC 10-10. PROVIDE BRANCH CIRCUIT BREAKERS, QUANTITY AND SIZES AS INDICATED IN PANEL SCHEDULES, NEUTRAL BUS, GROUND BUS, AND NEMA TYPE 1 SURFACE MOUNT ENCLOSURE. PROVIDE ONE 2 1/2" CHASE NIPPLE IN THE TOP, AND FOUR (4) 2" CHASE NIPPLES IN THE BOTTOM OF ENCLOSURE. REFER TO PANELBOARD SCHEDULES FOR MORE INFORMATION.
- PROVIDE TYPE 1 SPD (SURGE ARRESTER) IN COMPLIANCE WITH THE CURRENT NEC, UL 1449 LATEST EDITION LISTED. SPD SHALL BE INSTALLED ON THE SECONDARY SIDE OF SERVICE-ENTRANCE RATED FUSED DISCONNECT SWITCH.
- PROVIDE 15A, 120V, NEMA 5-15R, INDUSTRIAL GRADE, GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE DUPLEX RECEPTACLE WITH PVC, DEAD-END, DEEP DEVICE BOX (TYPE FDI), AND MATCHING/MATING GASKETED SPRING-HINGE WEATHERPROOF PVC COVER.
- PROVIDE NEMA 4/13, RAIN/TIGHT/OILTIGHT, WET LOCATIONS LISTED, NON-ILLUMINATED, MAINTAINED CONTACT, HAND-OFF-AUTO, 3-POSITION SELECTOR SWITCH COMPLETE WITH TYPE AND NUMBER OF CONTACTS REQUIRED TO IMPLEMENT SPECIFIED CONTROL, LEGEND PLATE, AND PANEL MOUNT SINGLE OPERATOR NEMA TYPE 1 ENCLOSURE. PROVIDE 1" CHASE NIPPLE IN BOTTOM OF ENCLOSURE.
- PROVIDE 2000W, 120V, SPST PHOTOCELL, TORK 2100 SERIES OR APPROVED EQUAL. MOUNT PHOTOCELL INSIDE LIGHTING ENCLOSURE PER FDOT STANDARD INDEX 17504.
- PROVIDE 480-120V, SINGLE PHASE, 3W, 60HZ, 3.0KVA CONTROL POWER TRANSFORMER WITH FUSE KIT BRACKETS.
- METER BASE BY CONTRACTOR PER FP&L REQUIREMENTS. METER BY FP&L GROUND METER BASE PER FP&L REQUIREMENTS.
- PROVIDE 1-#2 PH., 1-#2 NEUT., AND 1-#2 GND FOR ALL 120V CONTROL CIRCUITS.
- 2 #2 AWG PHASE CONDUCTORS WITH RHW-2 XLP INSULATION, 1 #2 AWG GROUNDING CONDUCTOR WITH RHW-2 XLP INSTALLATION AND #4 AWG EQUIPMENT GROUND CONDUCTOR IN 2" SCH 80 FOR UNDERGROUND AND RGS FOR ABOVE GROUND CONDUITS. UNDERGROUND CONDUITS SHALL BE BURIED 30" MINIMUM BELOW GRADE.
- PROVIDE MINIMUM TWO (2) 2" SCH. 40 PVC CONDUITS, ONE (1) 2" SCH. 40 PVC CONDUITS SPARE, FOR LIGHTING CIRCUIT WIRING. REFER TO PLAN SHEETS FOR MORE INFORMATION.
- PROVIDE TYPE 2 SURGE PROTECTION DEVICE (SPD) LOCATED INSIDE THE LOAD CENTER ENCLOSURE. SPD SHALL BE MANUFACTURED BY ADVANCED PROTECTION DEVICE (APT), MODEL TE/XF OR APPROVED EQUAL. SPD SHALL BE EQUIPPED WITH STATUS INDICATOR LIGHTS THAT ILLUMINATE GREEN DURING NORMAL OPERATION. SPD SHALL BE UL 1449 LATEST EDITION LISTED WITH A SHORT CIRCUIT CURRENT RATING. CONTRACTOR SHALL CONTACT APT'S REPRESENTATIVE, (800) 237-4567 FOR FIELD CONFIGURATION INSTRUCTIONS.
- CONCRETE SHALL HAVE A MINIMUM STRENGTH AT 28 DAYS OF 3,000 PSI. THE OUTSIDE EDGES OF THE SLAB SHALL BE CAST AGAINST FORMWORK. THE CONCRETE SLAB SHALL BE 24" WITH 18" ABOVE THE SURROUNDING GRADE.
- COPPER EQUIPMENT GROUND TERMINAL BUS BONDED TO ENCLOSURE.
- ACTIVE LIGHTING CIRCUIT WIRING. REFER TO PLAN SHEETS FOR MORE DETAILS.
- PROVIDE JUNCTION BOX AT THE BASE OF FP&L UTILITY POWER POLE. COORDINATION WITH FP&L REQUIRED.
- PROVIDE FUSIBLE PAD LOCKABLE SAFETY SWITCH, SERVICE ENTRANCE RATED, 600VAC, 100A/2P IN NEMA 4X ENCLOSURE WITH FUSES RATED AT 100A, OPERATING VOLTAGE 240/480V. USE #2 AWG FOR MAIN BONDING JUMPER BETWEEN EQUIPMENT GROUNDING BUS AND GROUNDED (NEUTRAL) BUS. EQUIPMENT GROUNDING BUS BONDED TO ENCLOSURE.
- COPPER GROUNDED NEUTRAL TERMINAL BUS.
- COPPER EQUIPMENT GROUND TERMINAL BUS.



**RISER DIAGRAM**  
N.T.S.

No.	REVISIONS	DATE	BY

SCALE	AS NOTED
DESIGNED BY	H. JUSZCZYK
DRAWN BY	H. GRIMALDO
CHECKED BY	P. PASTORE

DATE	02/16/2018
PROJECT NO.	6086960

Manatee County  
FLORIDA  
PUBLIC WORKS DEPARTMENT  
ENGINEERING SERVICES  
1022 26th Avenue East, Bradenton, FL 34208  
Grimaldo, Herman

DESIGN ENGINEER	HENRYK B. JUSZCZYK, P.E.
FL. LICENSE NO.	58082

**LOAD CENTER DETAILS**

SHEET NO.	L-30
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240/480V, 1PH, 3W WITH GROUND BUS					LOAD CENTER 'A' PANELBOARD SCHEDULE					100A., M.L.O. NEMA 1 ENCLOSURE				
CKT. NO.	KVA	AMPS	BKR	LOAD	CKT. NO.	KVA	AMPS	BKR	LOAD					
1	2.96	6.17	30/2	ROADWAY LIGHTING	2	2.85	5.94	30/2	ROADWAY LIGHTING					
3	2.12	4.42	30/2	ROADWAY LIGHTING	4	2.29	4.77	30/2	ROADWAY LIGHTING					
5	-	-	-	SPACE	6	-	-	30/2	SPARE					
7	-	-	-	SPACE	8	-	-	30/2	TYPE 2 SPD					
CONNECTED LOAD:					10.22 KVA 21.30 AMPS									
NEC DEMAND LOAD:					12.78 KVA 26.63 AMPS									

240/480V, 1PH, 3W WITH GROUND BUS					LOAD CENTER 'B' PANELBOARD SCHEDULE					100A., M.L.O. NEMA 1 ENCLOSURE				
CKT. NO.	KVA	AMPS	BKR	LOAD	CKT. NO.	KVA	AMPS	BKR	LOAD					
1	2.43	5.06	30/2	ROADWAY LIGHTING	2	2.34	4.87	30/2	ROADWAY LIGHTING					
3	4.03	8.39	30/2	ROADWAY LIGHTING	4	4.51	9.39	30/2	ROADWAY LIGHTING					
5	-	-	-	SPACE	6	-	-	30/2	SPARE					
7	-	-	-	SPACE	8	-	-	-	TYPE 2 SPD					
CONNECTED LOAD:					13.31 KVA 27.71 AMPS									
NEC DEMAND LOAD:					16.64 KVA 34.64 AMPS									

NOTES:

- ALL CIRCUIT BREAKERS SHALL HAVE A MINIMUM 14,000 AMPS FULLY RATED INTERRUPTING CAPACITY. REFER TO LOAD CENTER DETAILS FOR MORE INFORMATION.
- PANELBOARDS WITH NEMA 1, UL 67 RATINGS SHALL BE INSTALLED INSIDE PAD-MOUNTED NEMA 4X STAINLESS STEEL CABINET AT POWER SERVICE ENTRANCE LOCATIONS. REFER TO LOAD CENTER DETAILS FOR MORE INFORMATION.
- THE LEAD LENGTH OF SPDs DURING INSTALLATION SHALL BE AS SHORT AND STRAIGHT AS POSSIBLE.

SCALE				AS NOTED		DESIGNED BY		HENRYK B. JUSZCZYK, P.E. P.E. NO. 58082		DATE		02/16/2018		DESIGN ENGINEER		HENRYK B. JUSZCZYK, P.E.		SHEET NO.	
				H. JUSZCZYK		DRAWN BY		AECOM TECHNICAL SERVICES, INC. 7650 WEST COURTNEY CAMPBELL CAUSEWAY TAMPA, FL 33607-1462 (813) 286-1711		PROJECT NO.		6086960		FL. LICENSE NO.		58082		PANELBOARD SCHEDULES	
				H. GRIMALDO		CHECKED BY		CERTIFICATE OF AUTHORIZATION: 8115										L-31	
No.				REVISIONS				DATE		BY		P. PASTORE							



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