

**MANATEE COUNTY PUBLIC WORKS DEPT.
ENGINEERING SERVICES**

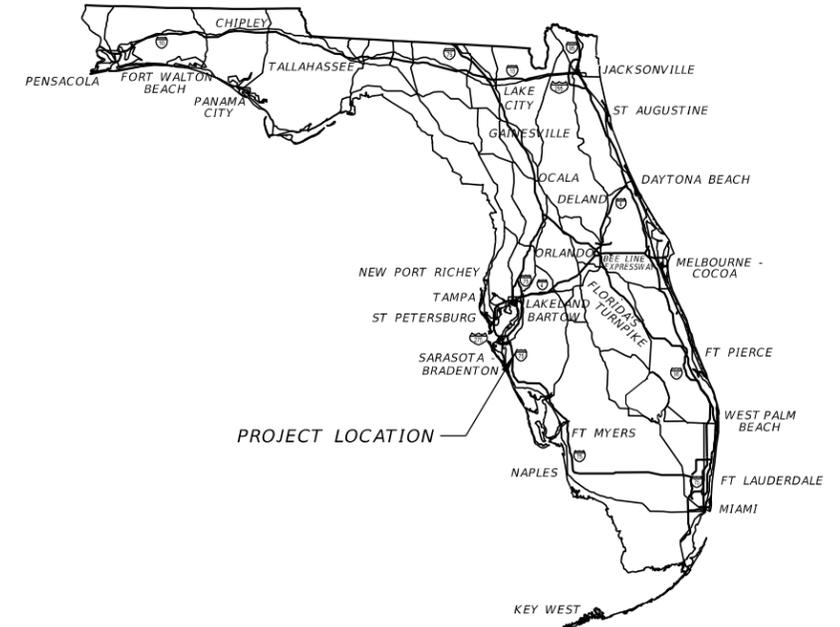
CONTRACT PLANS

PROJECT NUMBER 215617221

MOCCASIN WALLOW SEGMENT 2

I-75 TO U.S. 301

SIGNALIZATION PLANS



INDEX OF SIGNALIZATION PLANS

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SIGNALIZATION SHOP DRAWINGS
TO BE SUBMITTED TO:

JOSEPH LEFANTE, P.E. No. 84944
STANTEC CONSULTING SERVICES INC.
1340 POYDRAS STREET, SUITE 1420
NEW ORLEANS, LA 70112

PLANS PREPARED BY:

STANTEC CONSULTING SERVICES, INC.
6920 PROFESSIONAL PARKWAY EAST
SARASOTA, FLORIDA 34240
PH. 941-907-6900
VENDOR No. VF 112-167-170
CERTIFICATE OF AUTHORIZATION No. 27013

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

GOVERNING DESIGN STANDARDS:

Florida Department of Transportation, FY2022-23 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

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

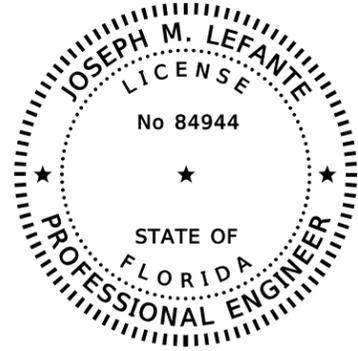
GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, January 2022 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

SIGNALIZATION PLANS
ENGINEER OF RECORD: JOSEPH LEFANTE, P.E.

P.E. NO.: 84944

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
		T-1



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

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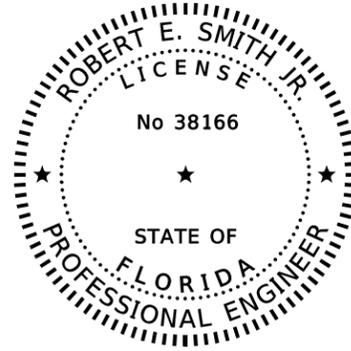
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STANTEC CONSULTING SERVICES INC.
1340 POYDRAS STREET, SUITE 1420
NEW ORLEANS, LA 70112
JOSEPH M. LEFANTE, P.E. NO. 84944

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

SIGNALIZATION PLANS

- T-1 KEY SHEET
- T-2 SIGNATURE SHEET
- T-3 TABULATION OF QUANTITIES
- T-4 - T-7 GENERAL NOTES
- T-8 - T-9 SIGNALIZATION PLAN
- T-10 GUIDE SIGN WORK SHEET AND DETAILS
- T-11 STANDARD MAST ARM TABULATION
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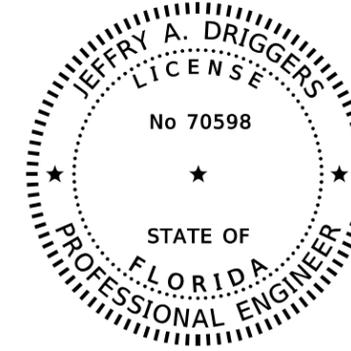
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STANTEC CONSULTING SERVICES INC.
2056 VISTA PARKWAY, SUITE 100
WEST PALM BEACH, FL 33411
ROBERT E. SMITH JR., P.E. NO. 38166

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

SIGNALIZATION PLANS

- T-12 STANDARD MAST ARM ASSEMBLIES TABLE
- T-13 SPECIAL MAST ARM ASSEMBLIES TABLE



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DRIGGERS ENGINEERS SERVICES, INC.
12220 49TH STREET NORTH
CLEARWATER, FL 33762
JEFFRY A. DRIGGERS, P.E. NO. 70598

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

SIGNALIZATION PLANS

- T-14 BORING DATA SHEETS - MAST ARMS

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REVISIONS				MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	STANTEC PROJECT NO.		
				MOCCASIN WALLOW RD	MANATEE	215617221		T-2

TABULATION OF QUANTITIES

Summary of Signalization Items

Pay Item Number	Pay Item Description	Unit of Measure	Sheet Numbers												Total Quantity		Design Notes	Construction Remarks								
			T-8		T-15		T-16		T-17		T-18		T-19		T-20				T-21		T-22		T-23			
			PLAN	FINAL	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	321		732		2058		1334		1294		1273		1452		1177		839		657		11137			
630-2-12	Conduit, Furnish & Install, Directional Bore	LF	493		187		381		159		208						282		118				1828			
632-7-1	Signal Cable, New Or Reconstructed Intersection, Furnish & Install	PI	1																				1			
633-1-121	Fiber Optic Cable, F&I, Underground, 2-12 Fibers	LF					377																377			
633-1-122	Fiber Optic Cable, F&I, Underground, 13-48 Fibers	LF					1535		1743		1752		1373		1602		1759						9764			
633-2-31	Fiber Optic Connection, Install, Splice	EA					4										48						52			
633-3-11	Fiber Optic Connection Hardware, F&I, Splice Enclosure	EA					1																1			
633-3-12	Fiber Optic Connection Hardware, F&I, Splice Tray	EA					1										1						2			
633-3-13	Fiber Optic Connection Hardware, F&I, Preterminated Connector Assembly	EA					1										1						2			
633-3-15	Fiber Optic Connection Hardware, F&I, Preterminated Patch Panel	EA					1																1			
633-8-1	Multi-Conductor Communication Cable, Furnish & Install	LF			919		2373												957		657		4906			
635-2-12	Pull & Splice Box, F&I, 24" X 36" Cover Size	EA			5		4		5		5		2		3		4		5		2		35			
635-2-13	Pull & Splice Box, F&I, 30" X 60" Rectangular Or 36" Round Cover Size	EA					1																1			
635-2-14	Pull & Splice Box, F&I, 17" X 30" Cover Size	EA	6																				6			
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	8																				8			
639-3-11	Electrical Service Disconnect, F&I, Pole Mount	EA	1																				1			
639-4-6	Emergency Generator Cab - Install Housing Only	EA	1																				1			
641-2-12	Prestressed Concrete Pole, F&I, Type P-II Service Pole	EA	1																				1			
641-2-13	Prestressed Concrete Pole, F&I, Type P-III	EA			1		1												1		1		4			
646-1-11	Aluminum Signals Pole, Furnish & Install, Pedestal	EA	8																				8			
649-21-6	Mast Arm Assembly, Furnish & Install, Single Arm 50'	EA	1																				1			
649-21-15	Mast Arm Assembly, Furnish & Install, Single Arm 70'	EA	1																				1			
649-21-21	Mast Arm Assembly, Furnish & Install, Single Arm 78'	EA	4																				4			
649-21-27	Mast Arm Assembly, Furnish & Install, Double Arm 78'-78'	EA	1																				1			
650-1-34	Vehicular Traffic Signal, Furnish & Install Polycarbonate, 3 Section, 1 Way	AS	22																				22			
650-1-39	Vehicular Traffic Signal, Furnish & Install Polycarbonate, 5 Section Cluster, 1 Way	AS	4																				4			
653-1-11	Pedestrian Signal, Furnish & Install Led Countdown, 1 Way	AS	8																				8			
660-3-11	Vehicle Detector System - Microwave, Furnish & Install Cabinet Equipment	EA	2		1		1												1		1		6			
660-3-12	Vehicle Detector System - Microwave, Furnish & Install, Above Ground Equipment	EA	8		1		1												1		1		12			
665-1-11	Pedestrian Detector, Furnish & Install, Standard	EA	8																				8			
670-5-110	Traffic Controller Assembly, F&I, NEMA	AS	1																				1			
676-3-10	Small Equipment Enclosure, Furnish And Install, Less Than 10"W X 13"H X 11" D	EA			1		1												1		1		4			
682-1-113	ITS CCTV Camera, F&I, Dome PTZ Enclosure - Pressurized, IP, High Definition	EA	1																				1			
684-1-1	Managed Field Ethernet Switch, Furnish & Install	EA	1																				1			
685-1-12	Uninterruptible Power Supply, Furnish And Install, Online/Double Conversion	EA	1																				1			
685-2-1	Remote Power Management Unit- Rpmu, Furnish And Install	EA	1																				1			
700-3-201	Sign Panel, Furnish & Install Ground Mount, Up To 12 SF	EA	10																				10			
700-5-22	Internally Illuminated Sign, Furnish & Install, Overhead Mount, 12-18 SF	EA	4																				4			
715-5-32	Luminaire & Bracket Arm- Galv Steel, Furnish & Install New Luminaire And Arm On New/Existing Pole	EA	4																				4			

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<table border="1"> <thead> <tr> <th colspan="2">REVISIONS</th> <th colspan="2">ENGINEER OF RECORD</th> </tr> <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>				REVISIONS		ENGINEER OF RECORD		DATE	DESCRIPTION	DATE	DESCRIPTION					MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES JOSEPH LEFANTE, P.E. P.E. LICENSE NUMBER 84944 STANTEC CONSULTING SERVICES INC. 1340 POYDRAS STREET, SUITE 1420 NEW ORLEANS, LA 70112			ROAD NO. COUNTY STANTEC PROJECT NO. MOCCASIN WALLOW RD MANATEE 215617221			TABULATION OF QUANTITIES		SHEET NO. T-3
REVISIONS		ENGINEER OF RECORD																						
DATE	DESCRIPTION	DATE	DESCRIPTION																					

SIGNALIZATION GENERAL NOTES:

1. THE CONTRACTOR SHALL CONTACT THE MANATEE COUNTY TRAFFIC ENGINEERING DIVISION BEFORE STARTING WORK.
2. THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER, IN CONJUNCTION WITH MANATEE COUNTY'S TRAFFIC ENGINEERING DIVISION, AT LEAST TWO WEEKS BEFORE ANY CABINET MODIFICATIONS ARE TO BE PERFORMED. THE ENGINEER, IN CONJUNCTION WITH MANATEE COUNTY'S TRAFFIC ENGINEERING DIVISION PERSONNEL WILL REVIEW, ASSIST AND PROVIDE TECHNICAL SUPPORT RELEVANT TO ANY FIELD MODIFICATIONS THAT ARE NECESSARY.
3. AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO BEGINNING THE TRAFFIC SIGNAL INSTALLATION, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING DEPARTMENTS TO INFORM THEM OF CONSTRUCTION OPERATIONS:

 MANATEE COUNTY TRAFFIC OPERATIONS DIVISION
 MR. AARON BURKETT
 2904 12TH STREET COURT EAST
 BRADENTON, FLORIDA 34208
 PHONE #: (941) 708-7450, EXT. 7509

 MANATEE COUNTY TRAFFIC ENGINEERING DIVISION
 MR. VISHAL KAKKAD, P.E. PTOE
 2101 47TH TERRACE EAST
 BRADENTON, FLORIDA 34208
 PHONE #: (941) 749-3500 EXT. 7812
4. FORTY-EIGHT (48) HOURS PRIOR TO CONTRACT START DATE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES IN WRITING GIVING THE LOCATION, START DATE AND EMERGENCY NUMBERS FOR AFTER HOURS REPAIRS:

 FLORIDA HIGHWAY PATROL
 POST OFFICE BOX 20009
 BRADENTON, FLORIDA 34203
 PHONE #: (941) 751-7646

 MANATEE SHERIFF'S OFFICE
 515 11TH STREET WEST
 BRADENTON, FLORIDA 34205
 PHONE #: (941) 747-3011
5. THE CONTRACTOR SHALL HAVE AN IMSA CERTIFIED LEVEL II (ELECTRONICS OR ELECTRICAL TECHNICIAN) ON THE JOB SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. ALL SIGNAL INSTALLATION TECHNICIANS SHALL HAVE A MINIMUM OF IMSA LEVEL I CERTIFICATION.
6. DELIVER THREE (3) SETS OF AS-BUILT PLANS TO SR. PROJECT ENGINEER IN TRAFFIC ENGINEERING DIVISION:

 MR. MUKUNDA GOPALAKRISHNA, P.E. PTOE
 2101 47TH TERRACE EAST
 BRADENTON, FLORIDA 34208
 PHONE #: (941) 749-3500 EXT. 7813

 DELIVER THREE (3) SETS OF RECORD DRAWINGS, TWO (2) SETS OF IMSA INSPECTION FORMS AND ONE (1) COMPACT DISC OF RECORD DRAWINGS TO MR. AARON BURKETT, THE MANATEE COUNTY TRAFFIC OPERATIONS DIVISION MANAGER AT 2904 12TH ST CT E, BRADENTON, FLORIDA 34208. RECORD DRAWINGS MUST BE DELIVERED FIVE (5) BUSINESS DAYS PRIOR TO SCHEDULING THE FINAL INSPECTION.
7. CONTRACTOR SHALL ESTABLISH TEMPORARY SIGNALIZATION AT THE INTERSECTION OF MOCCASIN WALLOW RD AND SAWGRASS RD AND HAVE IT OPERATIONAL WITHIN 90 DAYS OF CONTRACT START. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LAYOUT AND DESIGN THAT MEETS MUTCD REQUIREMENTS. SIGNALIZATION SHALL INCLUDE VEHICLE DETECTION. COST OF SUCH WORK (INCLUDING BUT NOT LIMITED TO MATERIALS, LABOR, MAINTENANCE, AND RELOCATION OF DEVICES AS REQUIRED FOR CONTRACT SEQUENCING), SHALL BE INCLUDED UNDER PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
8. PRIOR TO ORDERING MATERIALS, THE CONTRACTOR SHALL CONTACT THE TRAFFIC OPERATIONS DIVISION AND VERIFY THE CURRENT COLOR CODES TO BE USED FOR SIGNAL AND INTERCONNECT CABLE.

9. AT LEAST FIVE (5) WORKING DAYS PRIOR TO SCHEDULING THE TRAFFIC SIGNAL FINAL INSPECTION, THE CONTRACTOR SHALL SUBMIT A COMPLETED IMSA INSPECTION CHECKLIST FORM TO THE MANATEE COUNTY TRAFFIC OPERATIONS DIVISION.
10. UPON PASSING THE FINAL INSPECTION, THE CONTRACTOR SHALL SEND A WRITTEN REQUEST TO THE MANATEE COUNTY TRAFFIC OPERATIONS DIVISION 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 RESPONSIBILITY.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LOCAL POWER COMPANY PROVIDING ELECTRICAL POWER TO DETERMINE IF A SERVICE PROCESSING FEE IS REQUIRED. ANY FEE SHALL BE INCLUDED AS PART OF PAYMENT FOR THE ELECTRICAL POWER SERVICE ASSEMBLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS OF THE ELECTRICAL SERVICE. THE CONTRACTOR SHALL COORDINATE THE CONSTRUCTION, INSPECTION AND ENERGIZING OF THE NEW POWER SERVICE IN A TIMELY MANNER IN ORDER TO PROMOTE PROJECT COMPLETION WITHIN CONTRACT TIME.
12. THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR, VIA SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT 1-800-432-4770, IN COORDINATION WITH UNDERGROUND AND OVERHEAD UTILITY OWNERS. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS/AGENCIES LISTED WITHIN OR IMPACTED BY THESE PLANS, NOT LESS THAN TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION.
13. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS IN ADVANCE OF POLE SETTING OPERATIONS WHERE CONFLICT WITH OVERHEAD ELECTRICAL CONDUCTORS IS EXPECTED AND, IN ALL CASES, WHERE JOINT USE POLES ARE CALLED FOR.

 THE CONTRACTOR SHALL CONTACT THE LOCAL POWER COMPANY FOR THEIR ASSISTANCE IN PERFORMING ALL NECESSARY WORK UNDER POWER LINES AT SIGNAL POLES, SUCH AS THE INSTALLATION OF SIGNAL CABLE, FIBERGLASS INSULATORS, AND SIGNAL POLES.

 ALL LOCATIONS WHERE THE REQUIRED VERTICAL CLEARANCE TO THE POWER LINE CANNOT BE MAINTAINED, A QUALIFIED REPRESENTATIVE FROM THE POWER COMPANY SHALL BE PRESENT DURING ALL WORK UNDER POWER LINES. ANY COST ASSOCIATED WITH THIS SHALL BE INCLUDED IN THE RELATED PAY ITEMS.
14. THE CONTRACTOR SHALL HAND DIG THE FIRST 48 INCHES OF THE HOLE FOR THE POLE FOUNDATION OR CONDUIT RUN WHERE UTILITIES ARE IN CLOSE PROXIMITY.
15. THE CONTRACTOR IS TO DE-WATER THE POLE FOUNDATION EXCAVATION IF THE ELEVATION OF WATER IS HIGHER THAN THE ELEVATION OF THE FOUNDATION BASE.
16. ALL MATERIALS, EQUIPMENT, AND OTHER CONTRACTOR SUPPLIED ITEMS SHALL BE INSTALLED AND MAINTAINED ACCORDING TO THE MANUFACTURERS' RECOMMENDATIONS, UNLESS SPECIFICALLY DIRECTED OTHERWISE BY THE ENGINEER.
17. #14 XHHW PULL WIRE SHALL BE INSTALLED IN ALL CONDUITS. AT LEAST 2 FEET OF PULL WIRE SHALL BE ACCESSIBLE AT EACH CONDUIT TERMINATION AND SECURED IN THE PULL BOX OR PLACE OF TERMINATION.
18. ALL ELECTRICAL WIRING SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.

19. GROUNDING: ALL COSTS FOR GROUNDING SHALL BE INCLUDED IN THE COST OF THE ITEM BEING GROUNDED. ALL GROUND ROD ASSEMBLIES FOR POLES, SERVICES, CABINETS, AND OTHER RELATED EQUIPMENT SHALL BE BONDED TOGETHER TO FORM AN INTEGRATED GROUNDING SYSTEM USING #6 AWG THHN COPPER WIRE. THE UPPER END OF ALL GROUND RODS SHALL BE 18 INCHES BELOW GROUND ELEVATION. MARK GROUND ROD LOCATION WITH PERMANENT MARKER SUCH AS AN EPOXIED STICKER LOCATED ON THE NEAREST CURB AND PROVIDE AS-BUILT DRAWINGS WITH THE LOCATION OF GROUND RODS MARKED. GROUNDING CONDUCTOR MUST BE #6 OR LARGER INSULATED COPPER.

 CONNECTING DEVICES SHALL BE NON-CORROSIVE SPLIT BOLT, CLAMPS, PRESSURE CONNECTORS, OR OTHER APPROVED MEANS TO ENSURE A POSITIVE CONNECTION.

 GROUND RESISTANCE TESTER, OR OTHER APPROVED MEANS SHALL BE USED TO ACQUIRE THE GROUND ROD RESISTANCE. THE ENGINEER, OR A REPRESENTATIVE OF THE ENGINEER FROM THE TRAFFIC OPERATIONS DIVISION STAFF BE PRESENT DURING THE TEST.
20. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING OR BORING.
21. CONTRACTOR SHALL SUPPLY ALL MATERIAL SUBMITTALS TO THE ENGINEER, PRIOR TO CONSTRUCTION, FOR APPROVAL.
22. THE TYPE OF EQUIPMENT USED IN THE INSTALLATION OF MAST ARMS/FOUNDATIONS SHALL MEET THE FOLLOWING REQUIREMENT:
 A) OVERHEAD LINES SHALL STAY IN PLACE BOTH VERTICALLY AND HORIZONTALLY; AND
 B) CONTRACTOR SHALL MEET ALL APPLICABLE OSHA REQUIREMENTS. ANY COST ASSOCIATED WITH THE TYPE OF EQUIPMENT REQUIRED FOR THIS INSTALLATION SHALL BE INCLUDED IN THE RELATED PAY ITEMS.
23. CONTRACTOR SHALL UTILIZE THE FDOT STANDARD PLANS INDEX 102 SERIES FOR TRAFFIC CONTROL THROUGH WORK ZONES, AS APPLICABLE, DURING MAINTENANCE OF TRAFFIC OPERATIONS.
24. EXISTING SPEED LIMITS ARE AS FOLLOW:
 45 MPH ON MOCCASIN WALLOW RD
25. UNDER COUNTY'S SUPERVISION, THE CONTRACTOR SHALL PERFORM AN INITIAL OPERATION TEST TO ENSURE THE CCTV ASSEMBLY HAS BEEN INSTALLED CORRECTLY AS A COMPLETE AND FUNCTIONALLY ACCEPTABLE INSTALLATION.
26. THE SIGNAL CONTRACTOR SHALL BE AVAILABLE TO RESPOND TO TROUBLE CALLS TWENTY-FOUR (24) A DAY, SEVEN DAYS A WEEK FOR THE DURATION OF THE PROJECT. THE PRIME CONTRACTOR SHALL PROVIDE CONTACT NUMBERS FOR THE SIGNAL CONTRACTOR TO THE TRAFFIC OPERATIONS DIVISION AT COMMENCEMENT OF THE PROJECT. FURTHERMORE, WITHIN TWO (2) HOURS OF NOTIFICATION OR DOCUMENTED ATTEMPTED NOTIFICATIONS, THE SIGNAL CONTRACTOR SHALL BE ON SITE MAKING NEEDED REPAIRS OR MODIFICATIONS. FAILURE TO MEET THE TIME REQUIREMENTS SHALL GIVE THE COUNTY, AT ITS DISCRETION, THE RIGHT TO REQUEST ASSISTANCE FROM THE MANATEE COUNTY SHERIFF'S DEPARTMENT TO CONTROL TRAFFIC FOR THE PERIOD OF TIME UNTIL THE CONTRACTOR RESPONDS AND MAKES THE NEEDED REPAIRS. THE COST FOR MANATEE COUNTY SHERIFF'S OFFICE SHALL BE THE RESPONSIBILITY OF THE PRIME CONTRACTOR.
27. ELEVATION OF THE TOP OF THE MAST ARM FOUNDATION SHALL BE SIX (6) INCHES ABOVE EXISTING GRADE, UNLESS LOCATED DIRECTLY AT THE BACK OF SIDEWALK. IF LOCATED AT BACK OF SIDEWALK, THE FOUNDATION ELEVATION SHALL MATCH SIDEWALK GRADE. SEE TOP OF FOUNDATION ELEVATION ON "MAST ARM TABULATION SHEET".
28. SHOP DRAWINGS SHALL BE SUBMITTED FOR REVIEW FOR ALL EQUIPMENT AND MATERIALS FURNISHED AND INSTALLED. THE CONTRACTOR SHALL FURNISH COPIES OF ALL DRAWINGS, SCHEDULES AND COMPLETE DESCRIPTIVE AND TECHNICAL DATA ON ALL ITEMS TO THE MR. AARON BURKETT, THE MANATEE COUNTY TRAFFIC OPERATIONS DIVISION MANAGER AT 2904 12TH ST CT E, BRADENTON, FLORIDA 34208.

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DATE	DESCRIPTION	DATE	DESCRIPTION	JOSEPH LEFANTE, P.E. P.E. LICENSE NUMBER 84944 STANTEC CONSULTING SERVICES INC. 1340 POYDRAS STREET, SUITE 1420 NEW ORLEANS, LA 70112		ROAD NO.	COUNTY	STANTEC PROJECT NO.	
						MOCCASIN WALLOW RD	MANATEE	215617221	
GENERAL NOTES									T-4

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29. THE ACCEPTANCE OF ANY SUBMITTED DATA FOR MATERIALS, EQUIPMENT, APPARATUS, DEVICES, ARRANGEMENTS AND/OR LAYOUTS SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PLACING SAME AND PROPER DIMENSIONS, CAPACITIES, SIZES, QUANTITY AND INSTALLATIONS DETAILS TO EFFICIENTLY PERFORM THE REQUIREMENTS AND INTENT OF THE CONTRACT. SUCH ACCEPTANCE SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS OF ANY SORT ON THE SUBMITTAL DATA.
30. CONTACTOR TO CONTACT TRAFFIC ENGINEERING DIVISION: MR. MUKUNDA GOPALAKRISHNA (941-749-3500 EXT. 7813) TO OBTAIN IP ADDRESSES FOR FIELD DEVICES AND ETHERNET SWITCH CONFIGURATION INFORMATION.
31. WHEN A CONTRACTOR IS WORKING ON A SIGNAL IN AN INTERSECTION (INSTALLING CONDUIT IN THE STREET, REMOVING EXISTING SIGNAL EQUIPMENT, LOOPS, HOME RUNS OR TURNING ON OF A NEW SIGNAL) WHERE A LANE IS CLOSED, THE ENGINEER MAY REQUIRE AN OFF-DUTY LAW ENFORCEMENT OFFICER TO DIRECT TRAFFIC. THE HOURLY RATE FOR AN OFF-DUTY LAW ENFORCEMENT OFFICER TO DIRECT, CAN BE OBTAINED FROM THE LOCAL LAW ENFORCEMENT OFFICE. THE COST OF THE OFFICER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND INCLUDED IN PAY ITEM 102-1 (MAINTENANCE OF TRAFFIC).
32. CONTRACTOR SHALL COORDINATE PAVEMENT MARKINGS AND SIGNAGE WORK WITH SCHEDULING OF SIGNAL ACTIVATION. THE SIGNAL SHALL NOT BE FULLY ACTIVATED UNTIL ALL PROPOSED STOP BARS, CROSSWALKS, RAMPS AND PAVEMENT REMOVAL WORK IS COMPLETE. THE EXISTING STOP SIGNS SHALL BE REMOVED UPON FULL SIGNAL ACTIVATION.
33. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TWO PORTABLE 4' X 8' VARIABLE MESSAGE SIGNS (VMS) FOR A PERIOD OF TWO WEEKS. THE VMS WILL BE LOCATED AT AN APPROPRIATE DISTANCE IN ADVANCE OF EACH APPROACH TO THE NEW SIGNALIZED INTERSECTION AS SPECIFIED BY THE MAINTAINING AGENCY'S ENGINEER. THE VMS WILL BE PROVIDED (1) WEEK PRIOR TO THE SCHEDULED ACTIVATION TO FULL COLOR OPERATION AND SHALL REMAIN IN PLACE FOR ONE (1) WEEK FOLLOWING ACTIVATION. COST OF FURNISHING VMS TO BE INCLUDED UNDER THE ASSOCIATED PAY ITEM FOR MAINTENANCE OF TRAFFIC.

PRIOR TO ACTIVATION, THE VMS SIGN SHALL BE:

- (PANEL ONE - LINE 1) "TRAFFIC"
- (PANEL ONE - LINE 2) "SIGNAL"
- (PANEL ONE - LINE 3) "WILL BE"
- (PANEL TWO - LINE 1) "ACTIVATED"
- (PANEL TWO - LINE 2) "ON DAY"
- (PANEL TWO - LINE 3) "MONTH XX"

SUBSTITUTION FOR THE WORD "DAY" SHALL BE AS FOLLOWS:

- SUNDAY AS "SUN"
- MONDAY AS "MON"
- TUESDAY AS "TUES"
- WEDNESDAY AS "WED"
- THURSDAY AS "THUR"
- FRIDAY AS "FRI"
- SATURDAY AS "SAT"

SUBSTITUTION FOR THE WORD "MONTH" SHALL BE AS FOLLOWS:

- JANUARY AS "JAN"
- FEBRUARY AS "FEB"
- MARCH AS "MAR"
- APRIL AS "APR"
- MAY AS "MAY"
- JUNE AS "JUN"
- JULY AS "JUL"
- AUGUST AS "AUG"
- SEPTEMBER AS "SEP"
- OCTOBER AS "OCT"
- NOVEMBER AS "NOV"
- DECEMBER AS "DEC"

SUBSTITUTION FOR THE WORD "XX" SHALL BE AS FOLLOWS:

THE NUMERICAL DAY OF THE MONTH, FROM ONE (1) TO THIRTY-ONE (31). DATES LESS THAN TEN (10) SHALL BE PRECEDED BY A ZERO (0). FOR EXAMPLE, "JAN 03" FOR JANUARY 3RD.

AFTER THE TURN-ON, THE VMS SHALL BE CHANGED TO:

- (PANEL ONE - LINE 1) "TRAFFIC"
- (PANEL ONE - LINE 2) "SIGNAL"
- (PANEL TWO - LINE 1) "NOW"
- (PANEL TWO - LINE 2) "ACTIVE"

PANEL TWO, LINE 1 AND LINE 2, SHALL FLASH THREE (3) TIMES BEFORE REVERTING TO PANEL ONE.

34. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR THE SIGNAL MAINTENANCE, TIMING AND OPERATION OF ANY AND ALL SIGNALS AND SIGNAGE FROM COMMENCEMENT TO ACCEPTANCE OF THE PROJECT (I.E.: EXISTING LOOPS CUT, SYSTEM COMMUNICATION TERMINATED, LANE OR PAVEMENT MODIFICATIONS, PEDESTRIAN MODIFICATIONS, TRAFFIC SIGNAL SCHOOL FLASHER, WARNING FLASHER, ROADWAY LIGHTING, COUNT STATIONS, AND ANY OTHER TRAFFIC RELATED DEVICE LOCATED WITHIN THE CONSTRUCTION ZONE).

TRAFFIC CONTROLLER CABINET AND CONTROLLER ASSEMBLY

1. ALL TRAFFIC SIGNAL CONTROLLER CABINETS SUPPLIED, SHOULD BE TYPE VI.
2. ALL SIGNAL CONTROLLER CABINETS SHALL HAVE A FRONT AND BACK ACCESS DOOR.
3. PROVIDE ONE (1) PHOTOCCELL OUTSIDE THE RESPECTIVE DISCONNECT BOX FOR THE INTERNALLY ILLUMINATED STREET NAME SIGNS AND LUMINAIRES.
4. ELECTRICAL SERVICE DISCONNECT IS 100 AMP, COMPRISING OF A SIX (6) CIRCUIT DISCONNECT BOX WITH THREE (3) CIRCUIT BREAKERS - ONE (1) 40 AMP/120 VOLT FOR CONTROLLER CABINET AND TWO (2) 15 AMP/120 VOLT FOR FUTURE USE.
5. CONTROLLER CABINET SHOULD BE WIRED FOR SOP 10 REGARDLESS OF THE PROPOSED SIGNAL OPERATION AT THE PROJECT'S INTERSECTION. HOWEVER, THE CONTROLLER SHALL BE PROGRAMMED ACCORDING TO THE PROPOSED SOP AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
6. CONTROLLER CABINET FOUNDATIONS SHALL BE BUILT TO THE LATEST FDOT STANDARDS. ONE FOUNDATION FOR BOTH, TRAFFIC CONTROLLER CABINET AND GENERATOR CABINET CAN BE DESIGNED IF THERE ARE NO RIGHT-OF-WAY RESTRICTIONS AND IF INTERSECTION SIGHTLINES ARE CLEAR.
7. THE MOUNTING SURFACE OF THE CONTROLLER CABINET SHOULD BE ORIENTED TO ENSURE THE MAIN CABINET DOOR WILL OPEN AWAY FROM ONCOMING TRAFFIC.
8. THE CONTROLLER CABINET SHALL BE LOCATED AWAY FROM DRAINAGE DITCHES, SWALES, APEX OF CURVES. THE DESIGNER SHALL MAKE EVERY ATTEMPT TO LOCATE THE CONTROLLER CABINET IN AN EFFORT TO MINIMIZE EXPOSURE TO ERRANT VEHICLES.
9. ALL CONTROLLER CABINET DOOR DIAGRAMS SHALL REFLECT THE CURRENT, CORRECT DATA AND DOCUMENTATION.
10. THE UPS SHALL BE MOUNTED TO THE SIDE OF THE TRAFFIC SIGNAL CONTROLLER CABINET IN A MANNER THAT DOES NOT OBSTRUCT ACCESS TO NEARBY TRAFFIC SIGNAL EQUIPMENT.
11. THE PROJECT IS TO FURNISH AND INSTALL A COMPLETE UPS ASSEMBLY THAT INCLUDES A CABINET AND BATTERIES THAT MEET COUNTY SPECIFICATIONS.
12. PROVIDE ONE (1) UNINTERRUPTABLE POWER SUPPLY (UPS) MODEL NO. APC 1300 EQUIPPED WITH AN ETHERNET PORT. ALL UPS'S SHALL SUPPORT SNMP (PROTOCOL) FOR REMOTE MONITORING AND MANAGEMENT.
13. TRAFFIC CONTROLLER SHALL BE NAZTEC 980 ATC, COMPATIBLE WITH MANATEE COUNTY ATMS.NOW SYSTEM. THE CONTROLLER SUPPLIED WITH THE CABINET SHALL COME EQUIPPED WITH FOUR (4) SERIAL PORTS, ONE (1) ETHERNET PORT AND ONE (1) USB PORT.

SIGNAL HEADS AND INTERNALLY ILLUMINATED SIGNS

1. USE ALUMINUM LOUVERED BACK PLATES ON ALL VEHICULAR SIGNAL HEADS. ALL BACK PLATES SHALL INCLUDE A 2" YELLOW REFLECTORIZED (TYPE III REFLECTIVITY) OUTER EDGE BORDER.
2. PEDESTRIAN RAMP DESIGNS, PUSHBUTTON HEIGHTS AND ORIENTATION SHALL COMPLY WITH THE LATEST AMERICAN DISABILITIES ACT (ADA) REQUIREMENTS AND WITH THE LATEST FDOT STANDARDS.
3. USE BREAKAWAY ALUMINUM SQUARE BASE WITH ALUMINUM DOORS FOR PEDESTRIAN PEDESTALS.
4. USE LOCKING COLLARS FOR MOUNTING PEDESTRIAN SIGNAL HEADS TO PEDESTRIAN PEDESTALS.
5. INTERNALLY ILLUMINATED SIGNS SHALL BE RIGIDLY ATTACHED TO THE MAST ARM AS SHOWN ON THE PLANS.

DETECTION

1. STOP BAR VEHICLE DETECTION SHALL BE RADAR DETECTION USING WAVETRONIX MATRIX SENSOR.
2. THE CONTRACTOR SHALL REQUEST DETECTION SYSTEM OVERLAYS FROM WAVETRONIX AND SUBMIT THEM TO COUNTY'S REVIEW PRIOR TO FIELD INSTALL.
3. THE SYSTEM INSTALLER SHALL LEAVE A MINIMUM OF 30 INCHES OF SPARE CABLE AT EACH BRACKET. THE SLACK SHALL BE NEATLY FORMED INTO A LOOP AND SECURED TO THE SENSOR.
4. A MINIMUM OF 10 FEET OF SENSOR CABLE SLACK SHALL BE NEATLY STORED AT EACH PULL BOX LOCATION WITH A CONDUIT RUN.
5. IN ADDITION TO STOP BAR PRESENCE DETECTION, ADVANCE VEHICLE DETECTION SHALL BE PROVIDED FOR ALL MAJOR STREET APPROACHES TO ENABLE DATA COLLECTION TO SUPPORT PURDUE/UTAH AUTOMATED SIGNAL PERFORMANCE MEASURES (SPMS). THE WAVETRONIX SMARTSENSOR ADVANCE SHALL BE USED FOR ADVANCE VEHICLE DETECTION, UNLESS OTHERWISE APPROVED BY TRAFFIC ENGINEERING DIVISION.
6. VERIFY THE MANATEE COUNTY TRAFFIC INFRASTRUCTURE DESIGN GUIDE FOR DETECTION ZONES SETTINGS.

CONDUIT NOTES

1. ALL HDPE CONDUIT CONNECTIONS SHALL BE JOINED WITH A FUSION COUPLER OR FUSION SPLICE.
2. THE CONTRACTOR SHALL ADJUST THE CONDUIT RUNS, DEVICE POLES, BORES AND SERVICE POLE PLACEMENT TO AVOID ANY UTILITY CONFLICTS IDENTIFIED BY THE LOCATES. ANY SIGNIFICANT CHANGE SHALL BE APPROVED BY THE ENGINEER.
3. THE CONDUITS TO BE INSTALLED ARE TO BE PLACED SO AS TO TOTALLY AVOID ANY CONFLICTS WITH EXISTING UTILITIES ALONG THE ROUTE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THE NECESSARY INFORMATION REQUIRED TO PLAN THE WORK AHEAD FOR THE INSTALLATION OF THE REQUIRED CONDUITS WITHIN DESIGN OR SPECIFIED PARAMETERS AND HIS TIME FRAME. THE CONTRACTOR SHALL ADJUST CONDUIT VERTICALLY OR HORIZONTALLY TO AVOID CONFLICT WITH UNDERGROUND UTILITIES. THE CONTRACTOR SHALL USE HAND EXCAVATION METHODS WHEN EXCAVATING NEAR EXISTING UTILITIES, NO SEPARATE PAYMENT SHALL BE MADE FOR THIS WORK. EXTREME CAUTION SHALL BE USED BY THE CONTRACTOR WHEN EXCAVATING, INSTALLING, BACK FILLING AND COMPACTING AROUND EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL ABOVEGROUND AND UNDERGROUND CONFLICTS IN ADVANCE OF THE PLACEMENT OF ANY CONDUIT OR OTHER FACILITIES. THE CONTRACTOR SHALL FIELD MARK THE PROPOSED ALIGNMENT FOR REVIEW AND CONCURRENCE BY THE ENGINEER PRIOR TO TRENCHING AND/OR PLACEMENT. NO PULL BOXES SHALL BE LOCATED IN DRAINAGE SWALES OR PAVED SHOULDERS.

REVISIONS				ENGINEER OF RECORD			MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JOSEPH LEFANTE, P.E. P.E. LICENSE NUMBER 84944 STANTEC CONSULTING SERVICES INC. 1340 POYDRAS STREET, SUITE 1420 NEW ORLEANS, LA 70112			ROAD NO.	COUNTY	STANTEC PROJECT NO.	
							MOCCASIN WALLOW RD	MANATEE	215617221	GENERAL NOTES
										T-5

5. WHEN TRENCHING FOR INSTALLATION, THE CONTRACTOR MAY RUN COMMUNICATIONS AND POWER SERVICE IN THE SAME TRENCH. THE POWER SERVICE SHALL HAVE SEPARATE PULL BOXES FOR ACCESS. THE CONTRACTOR SHALL NOT INSTALL COMMUNICATIONS AND POWER SERVICE IN THE SAME CONDUIT, PULL BOX OR MANHOLE.
6. THE CONTRACTOR SHALL PLACE ALL CONDUITS IN A MANNER THAT MINIMIZES DEFLECTION BOTH HORIZONTALLY AND VERTICALLY. THUS, MINIMIZES STRESS ON CABLES DURING CABLE INSTALLATION. CONDUIT FOR FIBER OPTIC CABLE IN TRENCHES SHALL NOT DEFLECT MORE THAN 1 INCH PER FOOT VERTICALLY OR HORIZONTALLY. BENDS SHALL NOT BE PERMITTED EXCEPT AS SPECIFIED ON THE PLANS.
7. THE CONDUIT DETAILS GIVEN ARE MEANT TO BE SCHEMATIC IN NATURE. DUE TO ACTUAL FIELD CONDITIONS AND/OR NEEDS, DEVIATIONS MAY BE NECESSARY. DIMENSIONAL DISTANCES FOR CONDUIT LOCATIONS ARE PROVIDED TO ASSIST THE CONTRACTOR WITH CONDUIT PLACEMENT. THE CONTRACTOR SHALL TAKE THIS INTO ACCOUNT WHEN PLACING CONDUIT. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING CONDUIT AROUND EXISTING UTILITIES AND OBSTRUCTIONS.
8. ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF THE WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. DO NOT OPEN ANY AREA THAT CANNOT BE BACKFILLED IN THE SAME DAY/NIGHT OPERATION.

BRACKETS AND SPACERS WHICH ARE REQUIRED TO OFFSET THE RIGID METAL CONDUIT FROM THE MOUNTING, SHALL BE OF SIMILAR MATERIALS TO PREVENT CATHODIC REACTION.
9. ALL NEW CONDUIT SHALL BE PLACED AT A MINIMUM DEPTH OF 30 INCHES UNLESS PLACED IN AN AREA OF NEW FILL, IN WHICH CASE THE CONDUIT SHALL BE 48 INCHES. DIRECTIONALLY BORED CONDUIT SHALL BE AT A MINIMUM DEPTH OF 48 INCHES.

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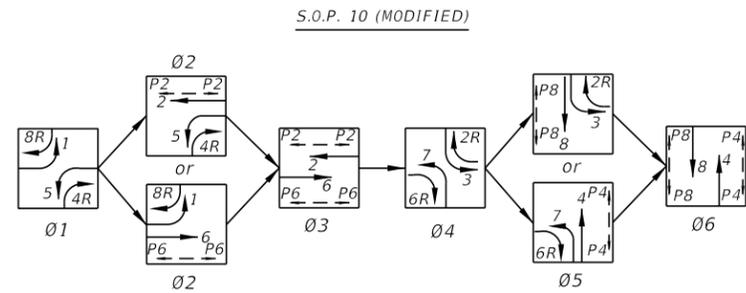
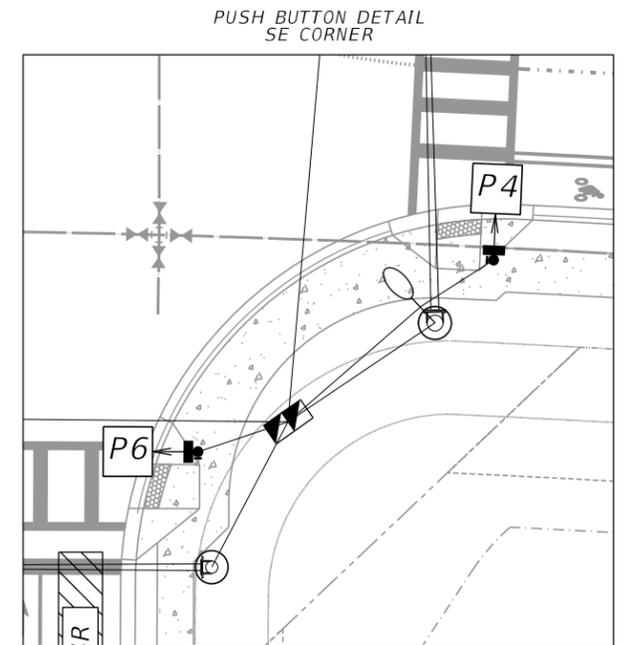
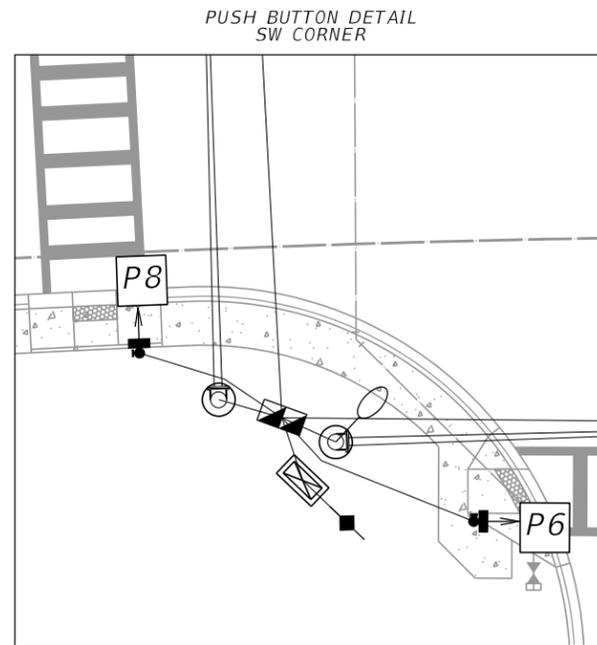
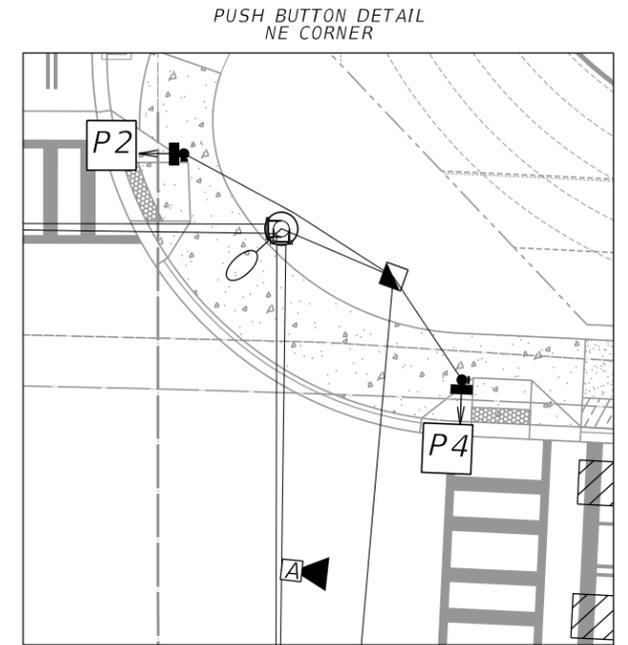
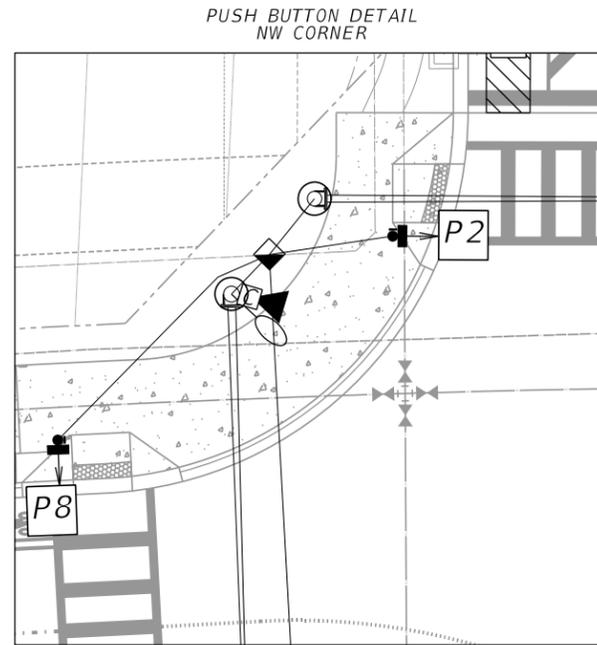
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REVISIONS				ENGINEER OF RECORD		MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES			SHEET NO.					
DATE	DESCRIPTION	DATE	DESCRIPTION				GENERAL NOTES							
				JOSEPH LEFANTE, P.E. P.E. LICENSE NUMBER 84944 STANTEC CONSULTING SERVICES INC. 1340 POYDRAS STREET, SUITE 1420 NEW ORLEANS, LA 70112				<table border="1"> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>STANTEC PROJECT NO.</th> </tr> <tr> <td>MOCCASIN WALLOW RD</td> <td>MANATEE</td> <td>215617221</td> </tr> </table>		ROAD NO.	COUNTY	STANTEC PROJECT NO.	MOCCASIN WALLOW RD	MANATEE
ROAD NO.	COUNTY	STANTEC PROJECT NO.												
MOCCASIN WALLOW RD	MANATEE	215617221												

WAVETRONIX MATRIX VEHICLE DETECTION ASSIGNMENTS			
DETECTOR	DETECTION ZONE	CONNECT TO TIMING FUNCTION	DELAY TIME (SECS.)
M1	1A, 1B	TF 1	
	6A, 6B	TF 6	
	6R	TF 6	8
M2	7A, 7B	TF 7	
	4A, 4B	TF 4	
	4R	TF 4	8
M3	5A	TF 5	
	2A, 2B	TF 2	
	2R	TF 2	8
M4	3A	TF 3	
	8A, 8B	TF 8	
	8RA	TF 1, TF 8	8

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY PROJECT ENGINEER.

CONTROLLER TIMINGS								
TIMING FUNCTION	TF1	TF2	TF3	TF4	TF5	TF6	TF7	TF8
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
MINIMUM GREEN	8	20	8	12	8	20	8	12
EXTENSION	3	5	3	3	3	5	3	3
MAXIMUM GREEN 1	20	70	20	30	20	70	20	30
MAXIMUM GREEN 2								
YELLOW CLEARANCE	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
ALL RED	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
PEDESTRIAN WALK		7		7		7		7
PED. CLEARANCE		31		31		26		31
RECALL		MIN				MIN		



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REVISIONS		ENGINEER OF RECORD	
DATE	DESCRIPTION	DATE	DESCRIPTION

JOSEPH LEFANTE, P.E.
P.E. LICENSE NUMBER 84944
STANTEC CONSULTING SERVICES INC.
1340 POYDRAS STREET, SUITE 1420
NEW ORLEANS, LA 70112

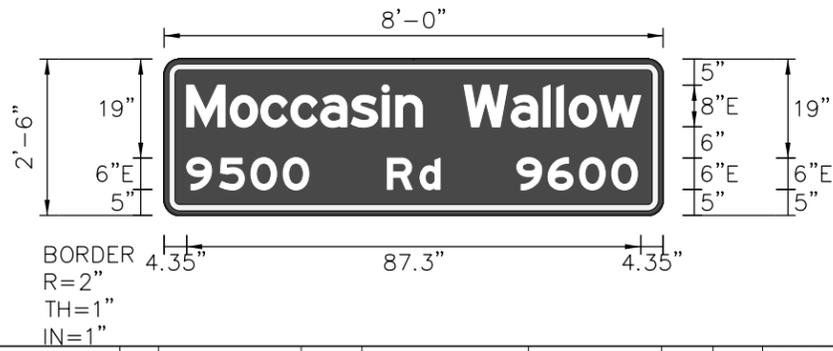
MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES		
ROAD NO.	COUNTY	STANTEC PROJECT NO.
MOCCASIN WALLOW RD	MANATEE	215617221

SIGNALIZATION PLAN

SHEET NO.
T-9

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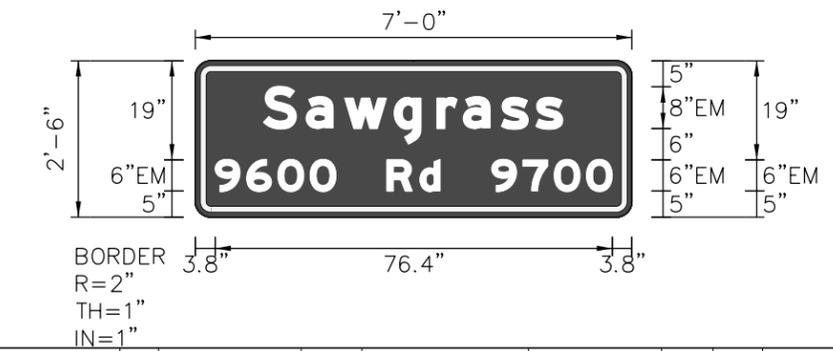
SIGN NAME C		QTY	1	SIGN NO.	STATION(S)
PANEL	BORDER				110+23.42
WIDTH 8'-0"	WIDTH 1"				
HEIGHT 2'-6"	RADII 2"				
LEGEND White	COLOR White				
COLOR Green					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE	AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	M	o	c	c	a	s	i	n	W	a	i	i	o	w	L	
SPACE	4.3	12.7	18.6	24.4	30.1	36	42	44.6	49.7	57.7	66.7	72.9	75.5	77.9	83.8	87.3
COPY	9	5	0	0		L										
SPACE	4.3	10.7	16.7	22.9		23.5										
COPY	R	d		L												
SPACE	42.9	49.2		10.2												
COPY	9	6	0	0		L										
SPACE	67.8	73.9	79.9	86.1		23.2										
COPY																
SPACE																
COPY																
SPACE																

SIGN NAME E		QTY	1	SIGN NO.	STATION(S)
PANEL	BORDER				108+60.12
WIDTH 7'-0"	WIDTH 1"				
HEIGHT 2'-6"	RADII 2"				
LEGEND White	COLOR White				
COLOR Green					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE	AVERAGE LENGTH	



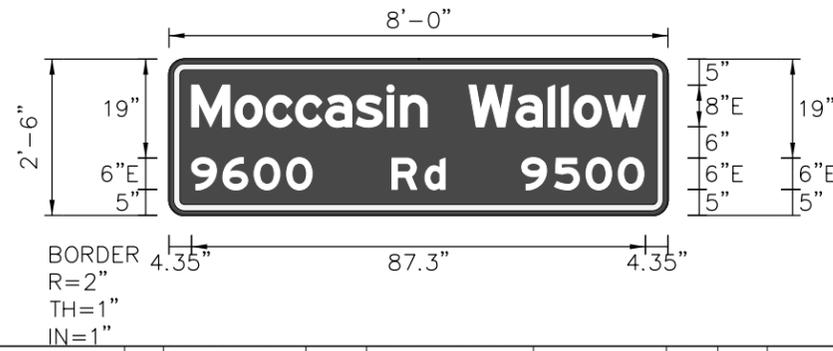
NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	S	a	w	g	r	a	s	s	L
SPACE	13.1	21.3	28.7	38.2	46.4	51.5	58.8	65.5	57.6
COPY	9	6	0	0		L			
SPACE	3.8	9.9	15.9	22.1		23.2			
COPY	R	d		L					
SPACE	36.9	43.2		10.2					
COPY	9	7	0	0		L			
SPACE	57	63	69.1	75.3		23.2			
COPY									
SPACE									
COPY									
SPACE									

REVISIONS		ENGINEER OF RECORD	
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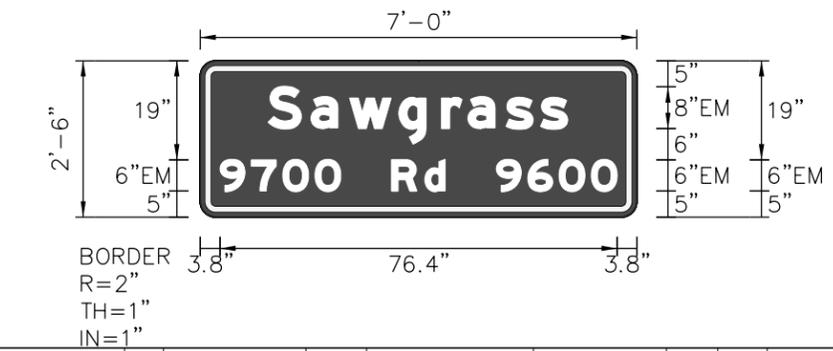
SIGN NAME D		QTY	1	SIGN NO.	STATION(S)
PANEL	BORDER				108+75.46
WIDTH 8'-0"	WIDTH 1"				
HEIGHT 2'-6"	RADII 2"				
LEGEND White	COLOR White				
COLOR Green					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE	AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	M	o	c	c	a	s	i	n	W	a	i	i	o	w	L	
SPACE	4.3	12.7	18.6	24.4	30.1	36	42	44.6	49.7	57.7	66.7	72.9	75.5	77.9	83.8	87.3
COPY	9	6	0	0		L										
SPACE	4.3	10.4	16.4	22.6		23.2										
COPY	R	d		L												
SPACE	42.9	49.2		10.2												
COPY	9	5	0	0		L										
SPACE	67.8	74.2	80.2	86.4		23.5										
COPY																
SPACE																
COPY																
SPACE																

SIGN NAME F		QTY	1	SIGN NO.	STATION(S)
PANEL	BORDER				110+50.21
WIDTH 7'-0"	WIDTH 1"				
HEIGHT 2'-6"	RADII 2"				
LEGEND White	COLOR White				
COLOR Green					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE	AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	S	a	w	g	r	a	s	s	L
SPACE	13.1	21.3	28.7	38.2	46.4	51.5	58.8	65.5	57.6
COPY	9	7	0	0		L			
SPACE	3.8	9.9	15.9	22.1		23.2			
COPY	R	d		L					
SPACE	36.9	43.2		10.2					
COPY	9	6	0	0		L			
SPACE	57	63	69.1	75.3		23.2			
COPY									
SPACE									
COPY									
SPACE									

MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES		
ROAD NO.	COUNTY	STANTEC PROJECT NO.
MOCCASIN WALLOW RD	MANATEE	215617221

GUIDE SIGN WORK SHEET AND DETAILS

SHEET NO.
T-10

STANDARD MAST ARM ASSEMBLIES DATA TABLE

STRUCTURE ID NUMBERS	DESIGNATION	FIRST ARM		SECOND ARM		UF (deg)	LL (deg)	POLE			DRILLED SHAFT ID
		ARM ID	FAA (ft.)	ARM ID	SAA (ft.)			POLE ID	UAA (ft.)	UB (ft.)	
1	A78/S-P6/S-DS/18/5	A78/S						P6/S		22.5	DS/18/5
3	A70/S-P5/S-DS/14/5	A70/S						P5/S		21	DS/14/5
5	A50/S-P3/S-DS/12/4.5	A50/S						P3/S		21	DS/12/4.5

NOTES:

- If an entry appears in column FAA, a shorter arm is required. This is obtained by removing length from the arm tip and the arm length shortened from FA to FAA. SAA Similar.
- If an entry appears in column UAA, a shorter pole is required. This is obtained by removing length from the pole tip and the pole height shortened from UA to UAA.
- Arm mounting height UB must be between 18-22 feet.
- Pole types P2 and larger require a minimum 4.5 foot diameter drilled shaft.
Pole types P5 and larger require a minimum 5.0 foot diameter drilled shaft.
- Work this sheet with the Signal Designer's "Mast Arm Tabulation". See "Mast Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement, and pedestrian features.
- Work with Index 649-030 and 649-031.

FOUNDATION NOTES;

- Design based on Borings taken and sealed by TBD
- Assumptions and values used in design:
 Soil Type = Sand
 Soil Layer Thickness = 30ft.
 Soil Friction Angle = 29deg.
 Soil Weight = 43pcf.

 Design Water Table is at surface.

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REVISIONS				STANTEC CONSULTING SERVICES, INC. Robert E. Smith Jr., P.E. P.E. License No. 38166 2056 Vista Pkwy., Suite 100 West Palm Beach, Florida 33411 (561) 686-7707	MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES			STANDARD MAST ARM ASSEMBLIES TABLE	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	STANTEC PROJECT NO.		T-12
					MOCCASIN WALLOW RD	MANATEE	215617221		

SPECIAL MAST ARM ASSEMBLIES DATA TABLE

NUMBER OF LOCATIONS	STRUCTURE NUMBER	FIRST ARM				FIRST ARM EXTENSION				SECOND ARM				SECOND ARM EXTENSION				POLE						
		FA(ft)	FB(in)	FC(in)	FD(in)	FE(ft)	FF(in)	FG(in)	FH(in)	SA(ft)	SB(in)	SC(in)	SD(in)	SE(ft)	SF(in)	SG(in)	SH(in)	UA(ft)	UB(ft)	UC(in)	UD(in)	UE(in)	UF(deg)	UG(ft)
2	2 & 7	39	11.54	17	0.25	42.5	16.1	22	0.5	-	-	-	-	-	-	-	-	39	21	18.6	24	0.5	-	37.5
1	4	39	12.54	18	0.25	42.5	17.1	23	0.5	-	-	-	-	-	-	-	-	39	22	18.6	24	0.5	-	37.5
1	6	39	11.54	17	0.25	42.5	16.1	22	0.5	39	9.54	15	0.25	42	14.12	20	0.375	39	22	20.6	26	0.5	90	37.5

SPECIAL MAST ARM ASSEMBLIES DATA TABLE (CONT.)

STRUCTURE NUMBER	FIRST ARM CONNECTION (in) <i>First Arm Camber Angle = 2 Degrees</i>											SECOND ARM CONNECTION (in) <i>Second Arm Camber Angle = 2 Degrees</i>										
	#Bolts	HT	FJ	FK	FL	FN	FO	FP	FR	FS	FT	#Bolts	HT	SJ	SK	SL	SN	SO	SP	SR	SS	ST
2 & 7	6	30	40	3	0.75	0.625	18	1.5	2.0	12	0.625	-	-	-	-	-	-	-	-	-	-	-
4	6	30	40	3	0.75	0.625	18	1.5	2.0	12	0.625	-	-	-	-	-	-	-	-	-	-	-
6	6	30	40	3	0.75	0.625	24	1.5	2.0	12	0.625	6	30	40	3	0.75	0.625	24	1.5	2.5	12	0.625

SPECIAL MAST ARM ASSEMBLIES DATA TABLE (CONT.)

STRUCTURE NUMBER	POLE BASE CONNECTION (in)					SHAFT AND REINF.								LUMINAIRE AND LUMINAIRE CONNECTION										
	#Bolts	BA	BB	BC	BF	DA(ft)	DB(ft)	RA	RB	RC	RD(in)	RE	RF(in)	LA(ft)	LB(ft)	LC(in)	LD(in)	LE	LF(ft)	LG(in)	LH(in)	LJ(in)	LK(in)	LL(deg)
2 & 7	8	40	2.5	2	40	25	5	11	18	10	6	10	9	40	10	3	0.125	0.5	8	0.5	0.75	0.25	0.25	45
4	8	40	2.5	2	40	25	5	11	18	10	6	10	9	40	10	3	0.125	0.5	8	0.5	0.75	0.25	0.25	45
6	8	42	2.5	2	40	26	5	11	18	10	4	10	6	40	10	3	0.125	0.5	8	0.5	0.75	0.25	0.25	45

NOTES:
 1. Work with Index 649-031.
 2. Design Wind Speed = 150mph

FOUNDATION NOTES:
 1. Design based on Borings taken TBD sealed by TBD
 2. Assumptions and Values used in design:
 Soil Type = Sand
 Soil Layer Thickness = 30ft.
 Soil Friction Angle = 29deg.
 Soil Weight = 43pcf
 Design Water Table is at surface

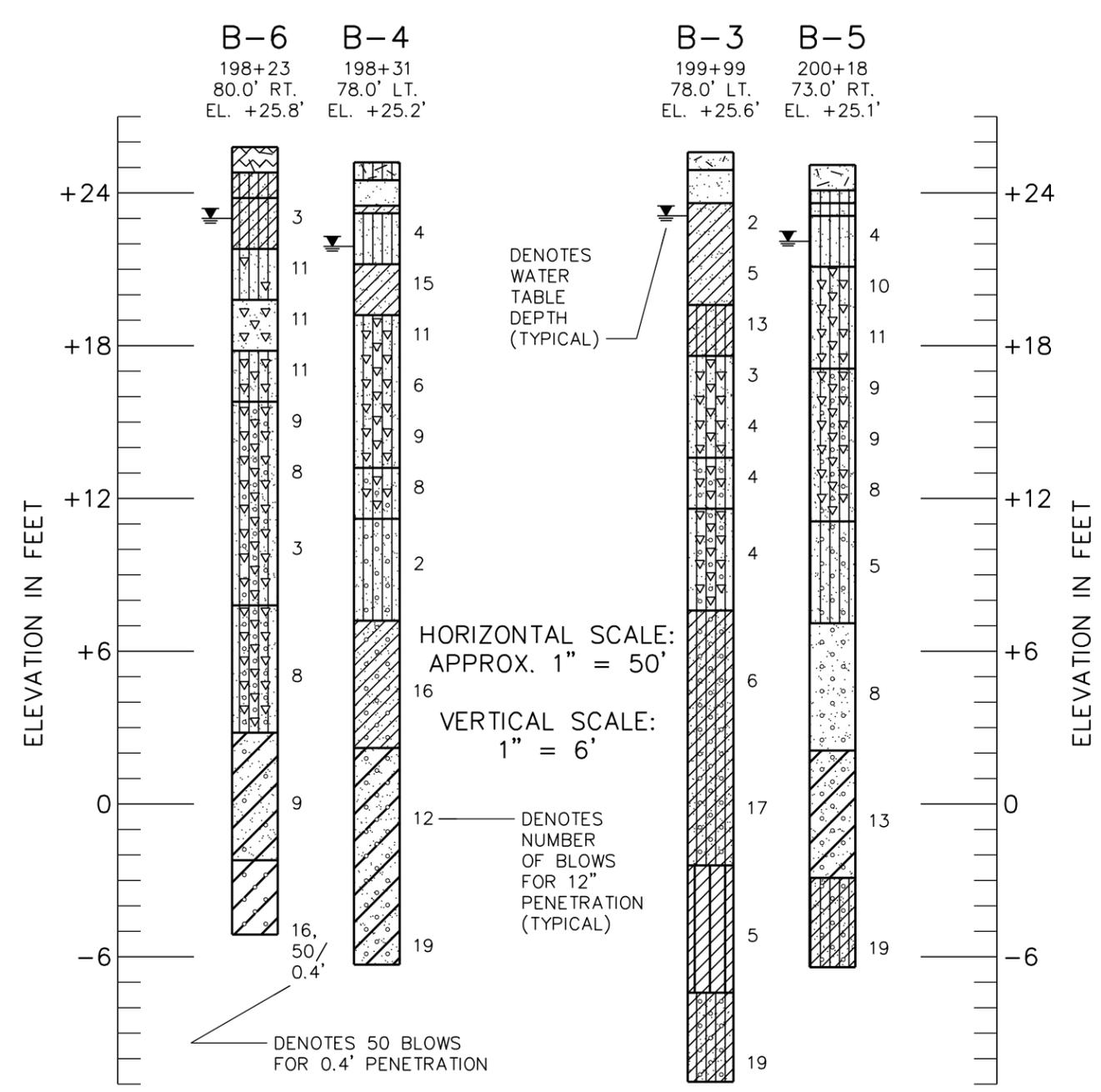
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS <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					STANTEC CONSULTING SERVICES, INC. Robert E. Smith Jr., P.E. P.E. License No. 38166 2056 Vista Pkwy., Suite 100 West Palm Beach, Florida 33411 (561) 686-7707		MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>STANTEC PROJECT NO.</th> </tr> </thead> <tbody> <tr> <td>MOCCASIN WALLOW RD</td> <td>MANATEE</td> <td>215617221</td> </tr> </tbody> </table>			ROAD NO.	COUNTY	STANTEC PROJECT NO.	MOCCASIN WALLOW RD	MANATEE	215617221	<p align="center">SPECIAL MAST ARM ASSEMBLIES TABLE</p>		SHEET NO. T-13
DATE	DESCRIPTION	DATE	DESCRIPTION																						
ROAD NO.	COUNTY	STANTEC PROJECT NO.																							
MOCCASIN WALLOW RD	MANATEE	215617221																							

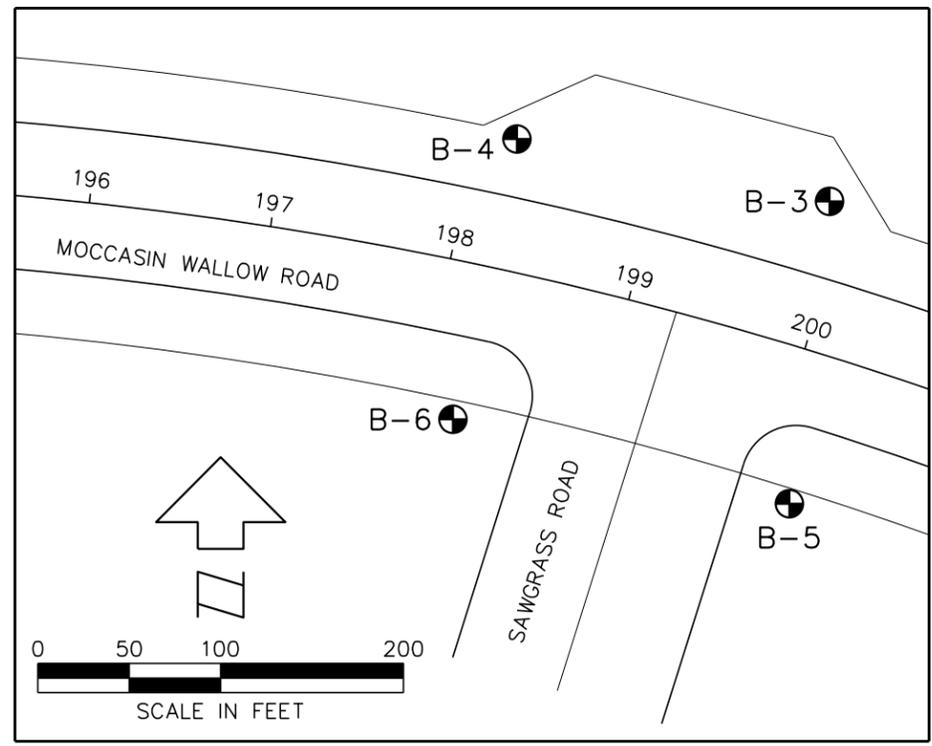
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GRANULAR MATERIALS - RELATIVE DENSITY	SPT - BLOWS PER FOOT
VERY LOOSE	LESS THAN 4
LOOSE	4-10
MEDIUM DENSE	10-30
DENSE	30-50
VERY DENSE	GREATER THAN 50

SILTS AND CLAYS - CONSISTENCY	SPT - BLOWS PER FOOT
VERY SOFT	LESS THAN 2
SOFT	2-4
FIRM	4-8
STIFF	8-15
VERY STIFF	15-30
HARD	GREATER THAN 30



LEGEND:

⊕ STANDARD PENETRATION TEST BORING LOCATION

DESIGN SOIL STRENGTH PARAMETERS FOR BORING B-3

DEPTH INTERVAL (feet)	FRICION ANGLE	UNCONFINED COMPRESSIVE STRENGTH (tsf)	MOIST UNIT WEIGHT (pcf)	BUOYANT UNIT WEIGHT (pcf)	SATURATED UNIT WEIGHT (pcf)
0-6	28°	--	110	60	120
6-8	32°	--	--	60	120
8-18	28°	--	--	60	120
18-23	30°	--	--	60	120
23-28	32°	--	--	60	120
28-33	--	750	--	55	115
33-36.5	32°	--	110	60	120

DESIGN SOIL STRENGTH PARAMETERS FOR BORING B-4

DEPTH INTERVAL (feet)	FRICION ANGLE	UNCONFINED COMPRESSIVE STRENGTH (tsf)	MOIST UNIT WEIGHT (pcf)	BUOYANT UNIT WEIGHT (pcf)	SATURATED UNIT WEIGHT (pcf)
0-4	28°	--	110	60	120
4-6	32°	--	--	60	120
6-14	30°	--	--	60	120
14-18	28°	--	--	60	120
18-23	32°	--	--	60	120
23-31.5	--	1250	--	60	100

DESIGN SOIL STRENGTH PARAMETERS FOR BORING B-5

DEPTH INTERVAL (feet)	FRICION ANGLE	UNCONFINED COMPRESSIVE STRENGTH (tsf)	MOIST UNIT WEIGHT (pcf)	BUOYANT UNIT WEIGHT (pcf)	SATURATED UNIT WEIGHT (pcf)
0-4	28°	--	110	60	120
4-23	30°	--	--	60	120
23-28	--	1250	--	60	100
28-31.5	32°	--	110	60	120

DESIGN SOIL STRENGTH PARAMETERS FOR BORING B-6

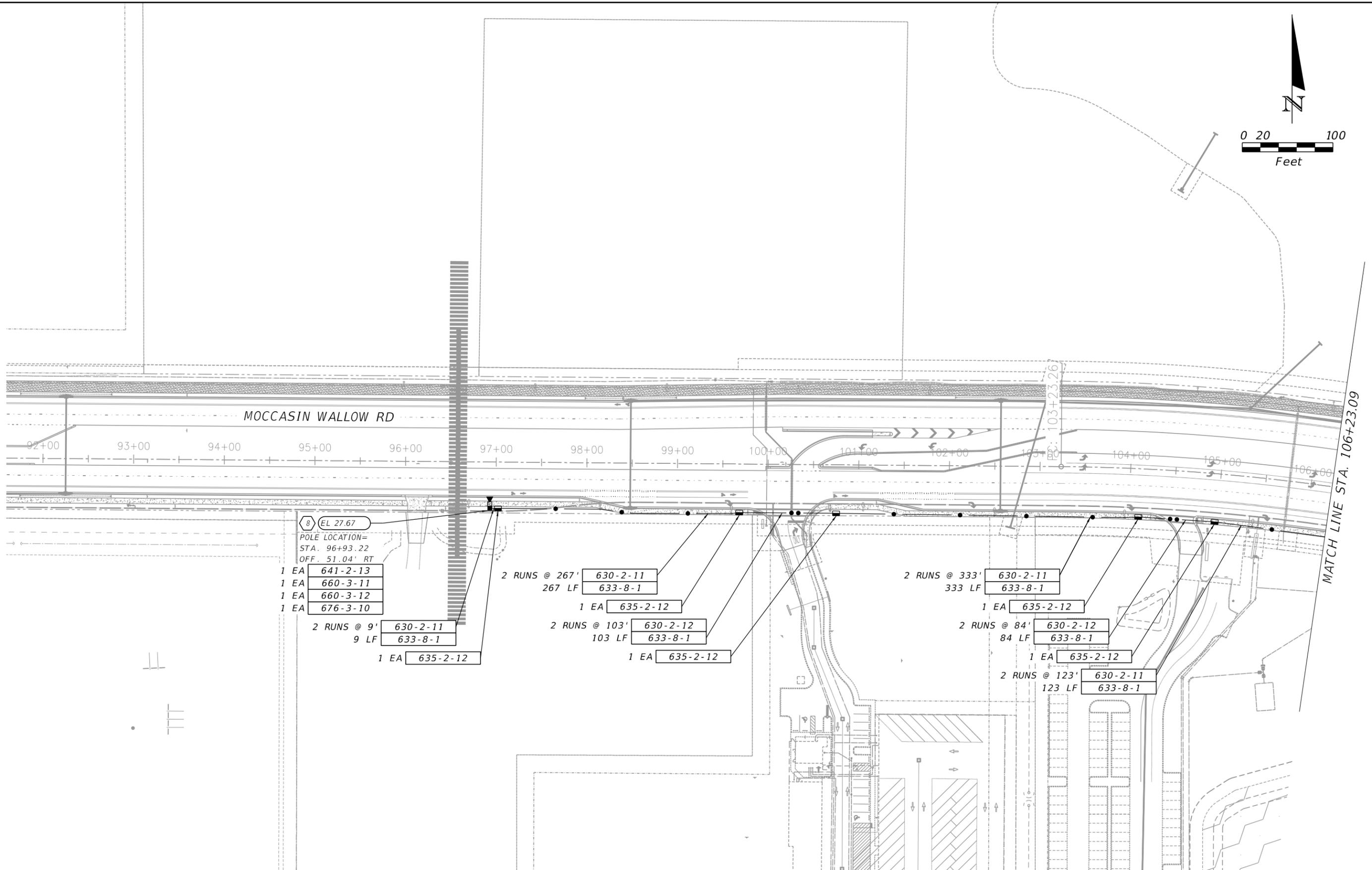
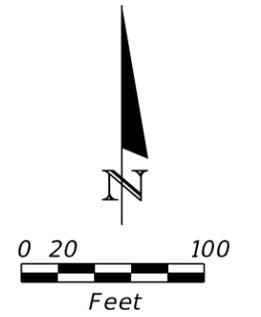
DEPTH INTERVAL (feet)	FRICION ANGLE	UNCONFINED COMPRESSIVE STRENGTH (tsf)	MOIST UNIT WEIGHT (pcf)	BUOYANT UNIT WEIGHT (pcf)	SATURATED UNIT WEIGHT (pcf)
0-4	28°	--	110	60	120
4-10	32°	--	--	60	120
10-23	30°	--	--	60	120
23-28	--	1250	--	60	100
28-30.4	--	2000	--	60	100

LEGEND OF SOIL BORING PROFILE SYMBOLS:

- FINE SAND (SP) (A-3)
- SILTY, SLIGHTLY CLAYEY FINE SAND (SM) (A-2-4)
- CLAY (CH) OR (CL) (A-7-6)
- CLAYEY SILT (MH) (A-4)
- SLIGHTLY SILTY FINE SAND (SP-SM) (A-3)
- SILTY, CLAYEY FINE SAND (SM-SC) (A-2-6)
- SANDY CLAY (CH) (A-7-6)
- SHELL
- SILTY FINE SAND (SM) (A-2-4)
- CLAYEY FINE SAND (SC) (A-2-6)
- HIGHLY ORGANIC, SILTY FINE SAND (Pt) (A-8)
- PHOSPHATE OR CEMENTED

CAD FILE NAME: A:\PROFILE\208603-MOCCASIN-SAWGRASS-P&P-11-22.DWG

REVISIONS				ENGINEER OF RECORD			MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JEFFRY A. DRIGGERS, P.E. P.E. LICENSE NUMBER 70598 DRIGGERS ENGINEERING SERVICES, INC. 12220 49TH STREET NORTH CLEARWATER, FLORIDA 33762			ROAD NO.	COUNTY	STANTEC PROJECT NO.	
							MOCCASIN WALLOW RD	MANATEE	215617221	BORING DATA SHEET - MAST ARMS



8 EL 27.67
 POLE LOCATION=
 STA. 96+93.22
 OFF. 51.04' RT
 1 EA 641-2-13
 1 EA 660-3-11
 1 EA 660-3-12
 1 EA 676-3-10
 2 RUNS @ 9'
 9 LF 630-2-11
 633-8-1
 1 EA 635-2-12

2 RUNS @ 267'
 267 LF 630-2-11
 633-8-1
 1 EA 635-2-12
 2 RUNS @ 103'
 103 LF 630-2-12
 633-8-1
 1 EA 635-2-12

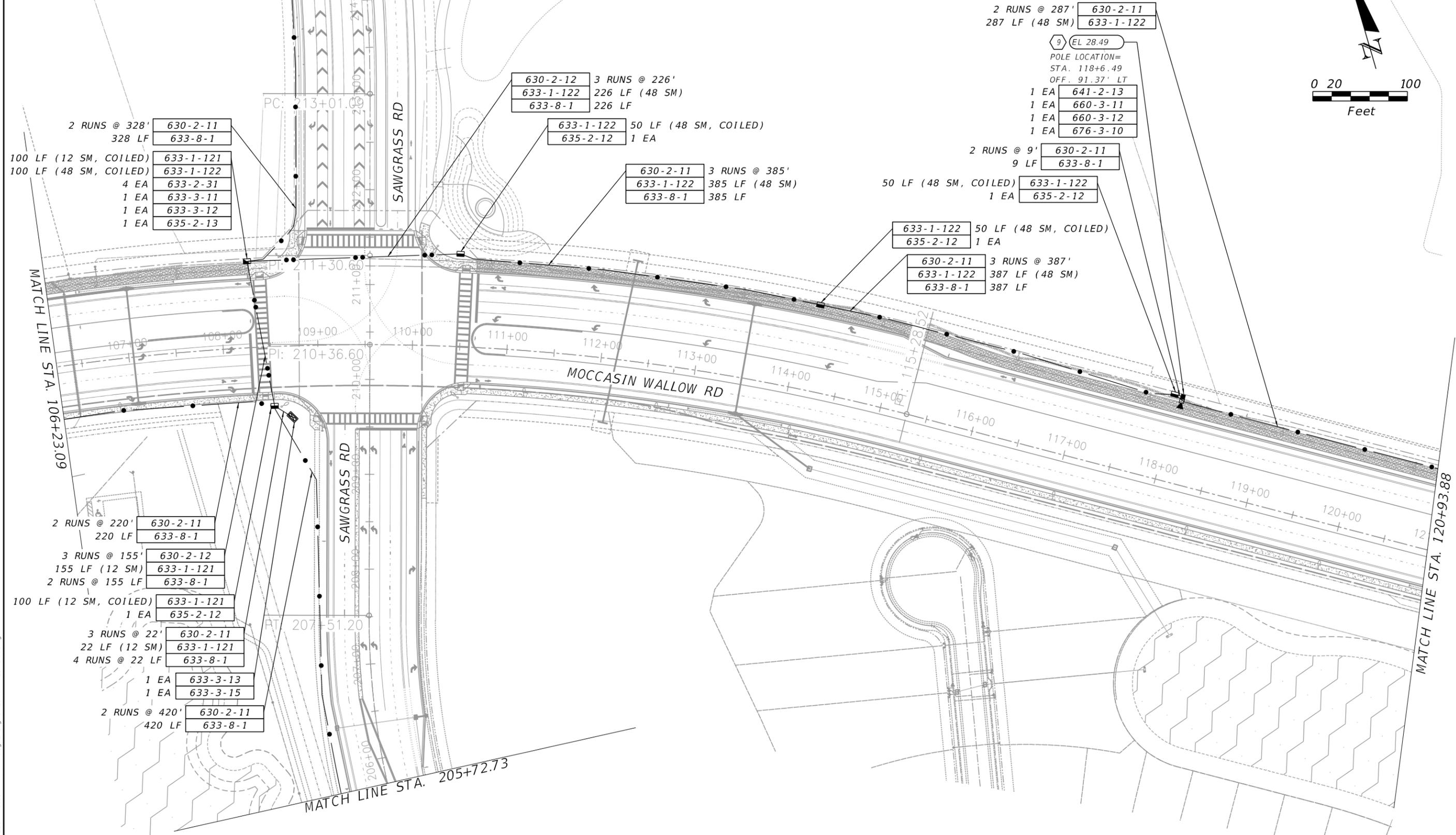
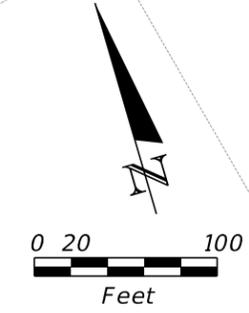
2 RUNS @ 333'
 333 LF 630-2-11
 633-8-1
 1 EA 635-2-12
 2 RUNS @ 84'
 84 LF 630-2-12
 633-8-1
 1 EA 635-2-12
 2 RUNS @ 123'
 123 LF 630-2-11
 633-8-1

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REVISIONS		ENGINEER OF RECORD		MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES			INTERCONNECT COMMUNICATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	STANTEC PROJECT NO.		T-15
			JOSEPH LEFANTE, P.E. P.E. LICENSE NUMBER 84944 STANTEC CONSULTING SERVICES INC. 1340 POYDRAS STREET, SUITE 1420 NEW ORLEANS, LA 70112	MOCCASIN WALLOW RD	MANATEE	215617221		

MATCH LINE STA. 214+30.60



2 RUNS @ 328' 630-2-11
328 LF 633-8-1
100 LF (12 SM, COILED) 633-1-121
100 LF (48 SM, COILED) 633-1-122
4 EA 633-2-31
1 EA 633-3-11
1 EA 633-3-12
1 EA 635-2-13

630-2-12 3 RUNS @ 226'
633-1-122 226 LF (48 SM)
633-8-1 226 LF

633-1-122 50 LF (48 SM, COILED)
635-2-12 1 EA

630-2-11 3 RUNS @ 385'
633-1-122 385 LF (48 SM)
633-8-1 385 LF

2 RUNS @ 287' 630-2-11
287 LF (48 SM) 633-1-122

9 EL 28.49
POLE LOCATION=
STA. 118+6.49
OFF. 91.37' LT
1 EA 641-2-13
1 EA 660-3-11
1 EA 660-3-12
1 EA 676-3-10

2 RUNS @ 9' 630-2-11
9 LF 633-8-1

50 LF (48 SM, COILED) 633-1-122
1 EA 635-2-12

633-1-122 50 LF (48 SM, COILED)
635-2-12 1 EA

630-2-11 3 RUNS @ 387'
633-1-122 387 LF (48 SM)
633-8-1 387 LF

2 RUNS @ 220' 630-2-11
220 LF 633-8-1

3 RUNS @ 155' 630-2-12
155 LF (12 SM) 633-1-121
2 RUNS @ 155 LF 633-8-1

100 LF (12 SM, COILED) 633-1-121
1 EA 635-2-12

3 RUNS @ 22' 630-2-11
22 LF (12 SM) 633-1-121
4 RUNS @ 22 LF 633-8-1

1 EA 633-3-13
1 EA 633-3-15

2 RUNS @ 420' 630-2-11
420 LF 633-8-1

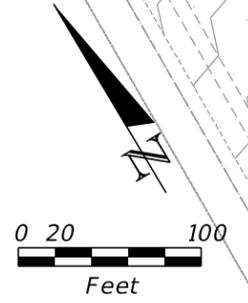
MATCH LINE STA. 205+72.73

MATCH LINE STA. 120+93.88

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REVISIONS				ENGINEER OF RECORD			MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES			INTERCONNECT COMMUNICATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JOSEPH LEFANTE, P.E. P.E. LICENSE NUMBER 84944 STANTEC CONSULTING SERVICES INC. 1340 POYDRAS STREET, SUITE 1420 NEW ORLEANS, LA 70112			ROAD NO.	COUNTY	STANTEC PROJECT NO.		T-16
							MOCCASIN WALLOW RD	MANATEE	215617221		



2 RUNS @ 159' 630-2-12
 159 LF (48 SM) 633-1-122
 1 EA 635-2-12

2 RUNS @ 330' 630-2-11
 330 LF (48 SM) 633-1-122

630-2-11 2 RUNS @ 46'
 633-1-122 46 LF (48 SM)

633-1-122 50 LF (48 SM, COILED)
 635-2-12 1 EA

633-1-122 50 LF (48 SM, COILED)
 635-2-12 1 EA

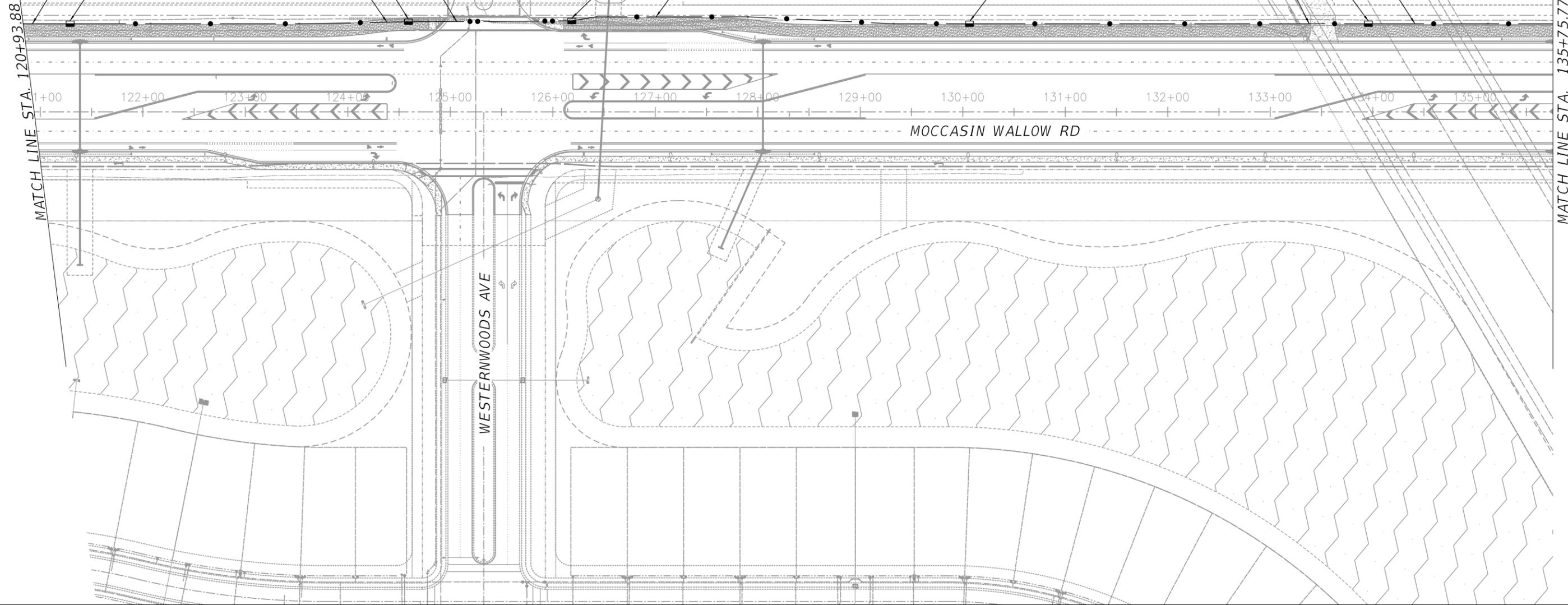
630-2-11 2 RUNS @ 389'
 633-1-122 389 LF (48 SM)

2 RUNS @ 180' 630-2-11
 180 LF (48 SM) 633-1-122

50 LF (48 SM, COILED) 633-1-122
 1 EA 635-2-12

2 RUNS @ 389' 630-2-11
 389 LF (48 SM) 633-1-122

633-1-122 50 LF (48 SM, COILED)
 635-2-12 1 EA



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD
 JOSEPH LEFANTE, P.E.
 P.E. LICENSE NUMBER 84944
 STANTEC CONSULTING SERVICES INC.
 1340 POYDRAS STREET, SUITE 1420
 NEW ORLEANS, LA 70112

MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES		
ROAD NO.	COUNTY	STANTEC PROJECT NO.
MOCCASIN WALLOW RD	MANATEE	215617221

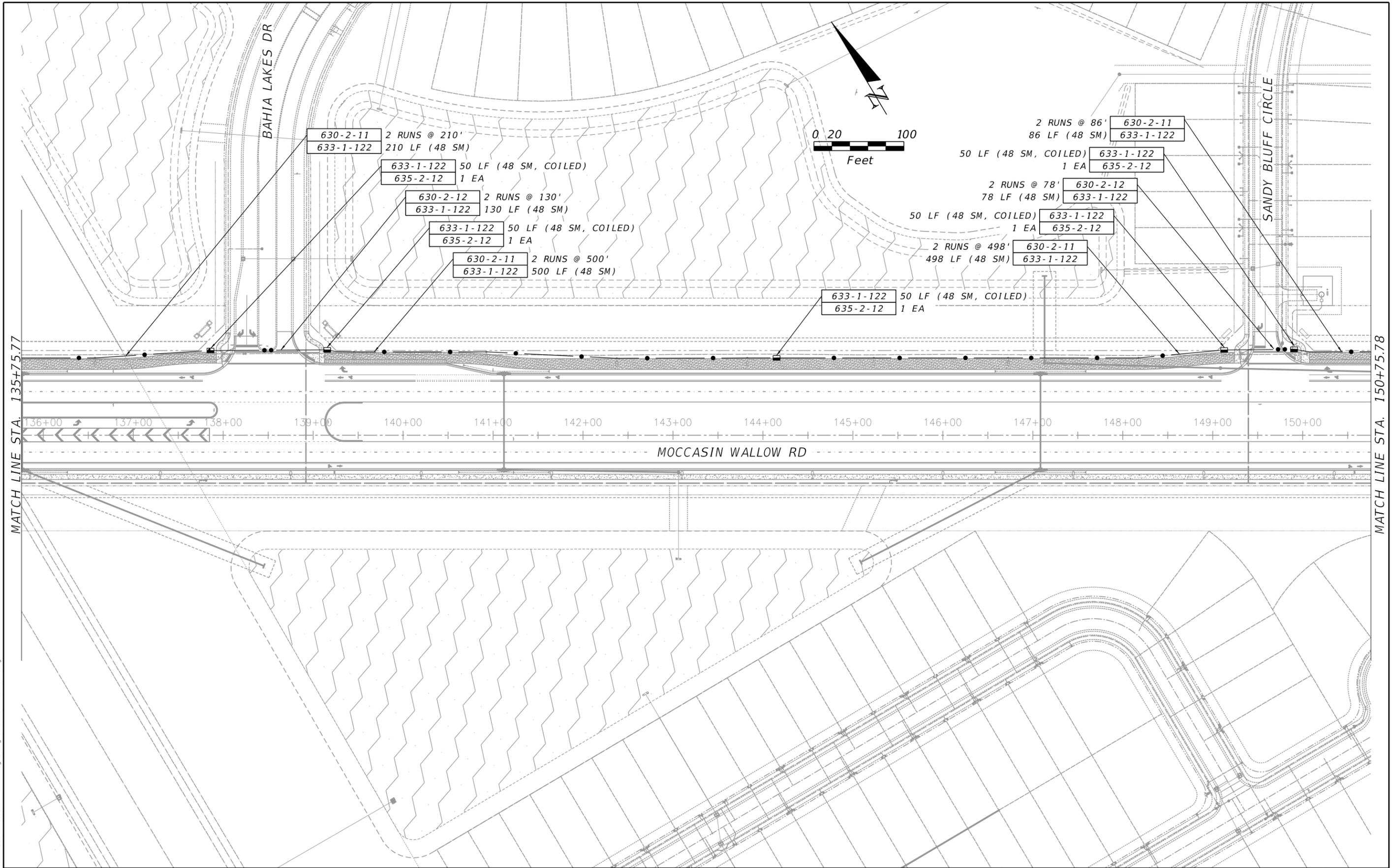
**INTERCONNECT
COMMUNICATION PLAN**

SHEET NO.
T-17

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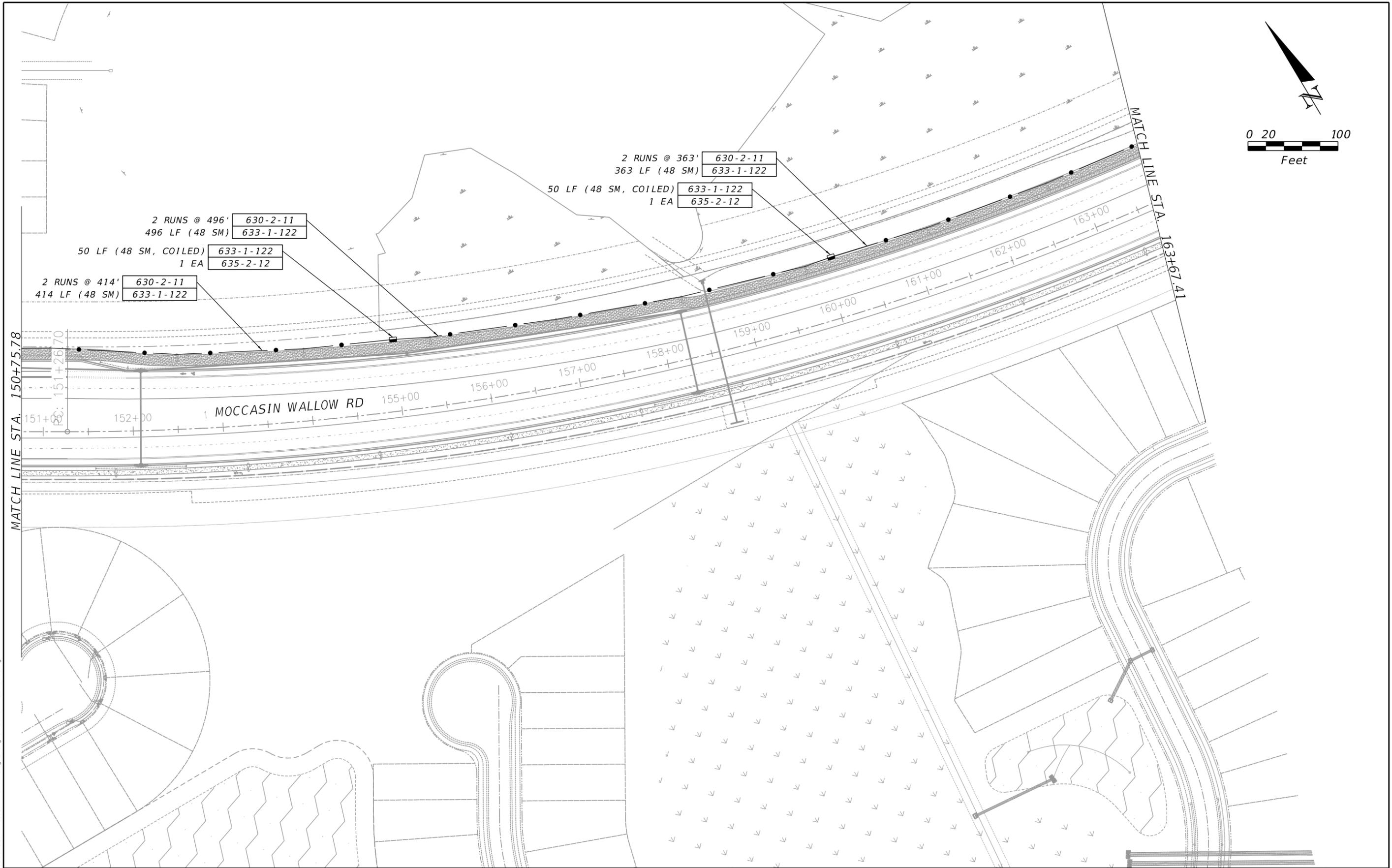
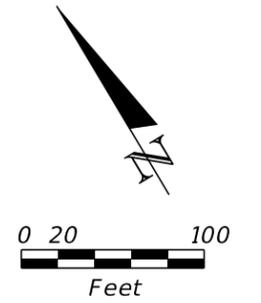
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REVISIONS		ENGINEER OF RECORD		MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	STANTEC PROJECT NO.	
			JOSEPH LEFANTE, P.E. P.E. LICENSE NUMBER 84944 STANTEC CONSULTING SERVICES INC. 1340 POYDRAS STREET, SUITE 1420 NEW ORLEANS, LA 70112	MOCCASIN WALLOW RD	MANATEE	215617221	T-18

**INTERCONNECT
COMMUNICATION PLAN**

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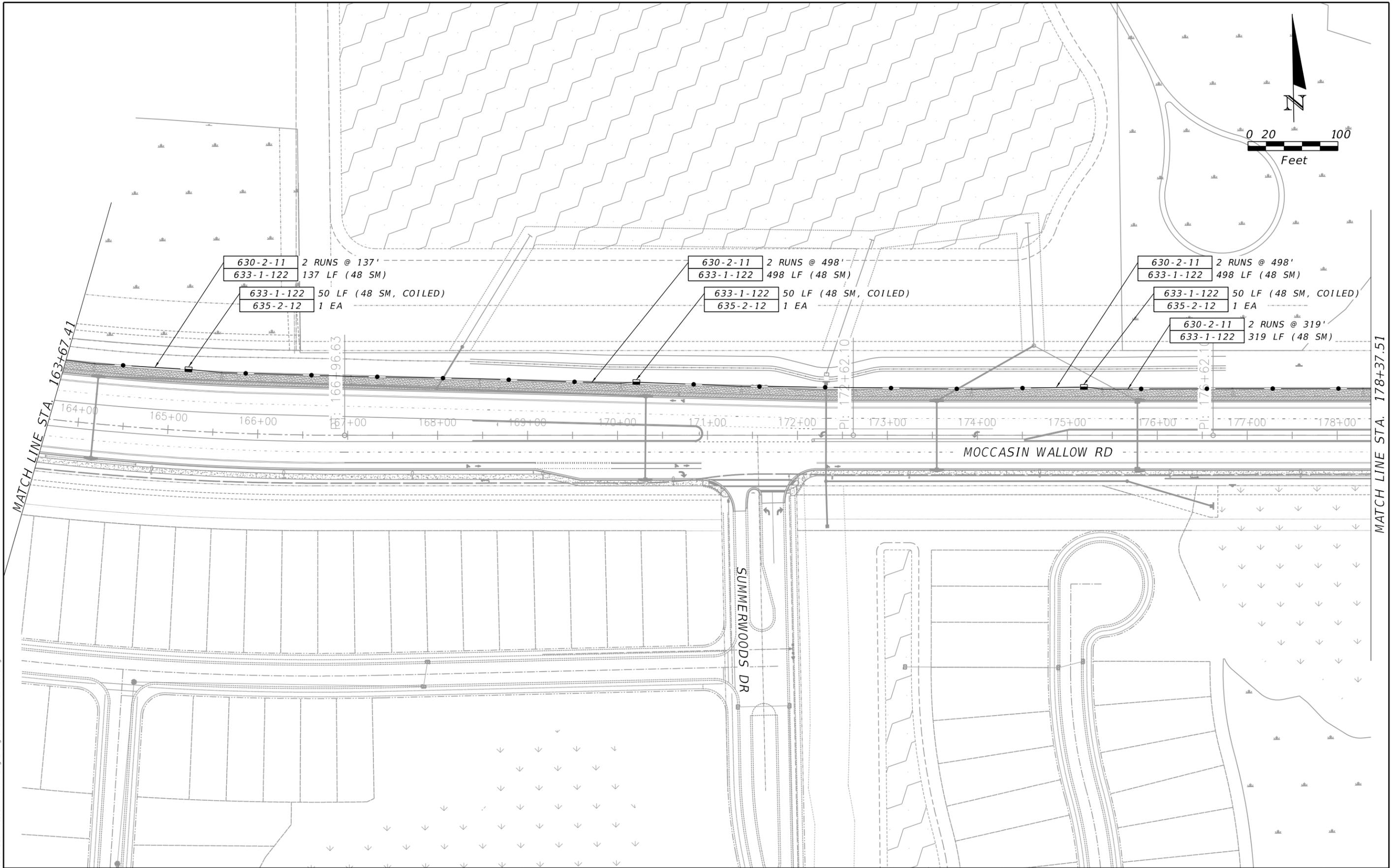
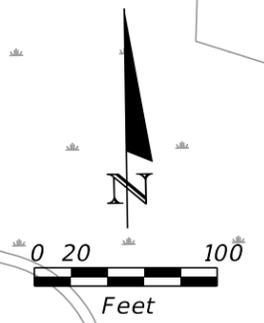


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REVISIONS		ENGINEER OF RECORD		MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	STANTEC PROJECT NO.	
			JOSEPH LEFANTE, P.E. P.E. LICENSE NUMBER 84944 STANTEC CONSULTING SERVICES INC. 1340 POYDRAS STREET, SUITE 1420 NEW ORLEANS, LA 70112	MOCCASIN WALLOW RD	MANATEE	215617221	T-19

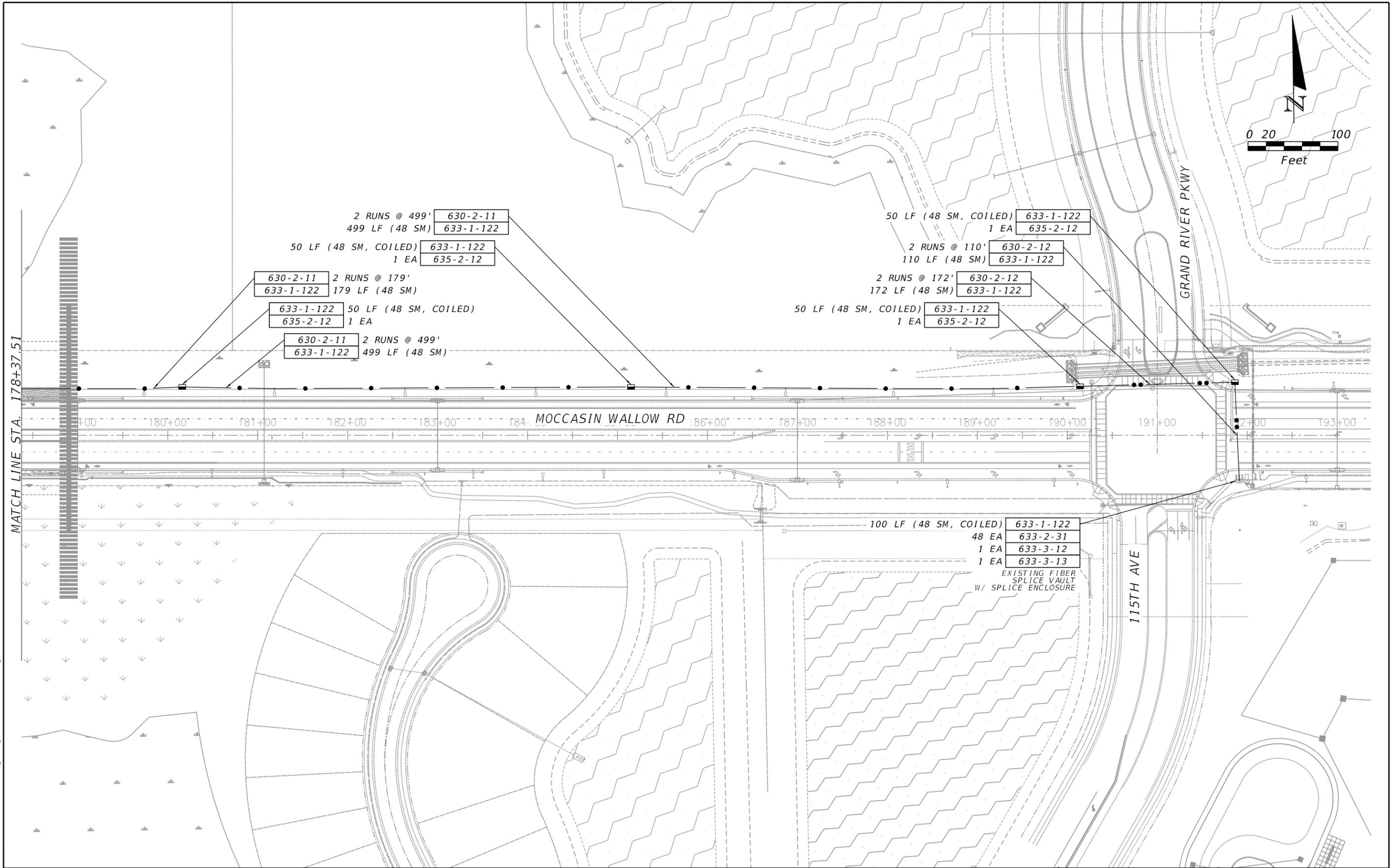
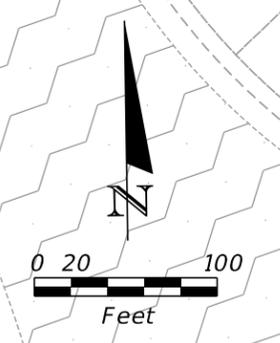
**INTERCONNECT
COMMUNICATION PLAN**



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REVISIONS		ENGINEER OF RECORD		MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	STANTEC PROJECT NO.	
				JOSEPH LEFANTE, P.E. P.E. LICENSE NUMBER 84944 STANTEC CONSULTING SERVICES INC. 1340 POYDRAS STREET, SUITE 1420 NEW ORLEANS, LA 70112	MOCCASIN WALLOW RD	MANATEE	215617221
INTERCONNECT COMMUNICATION PLAN							T-20



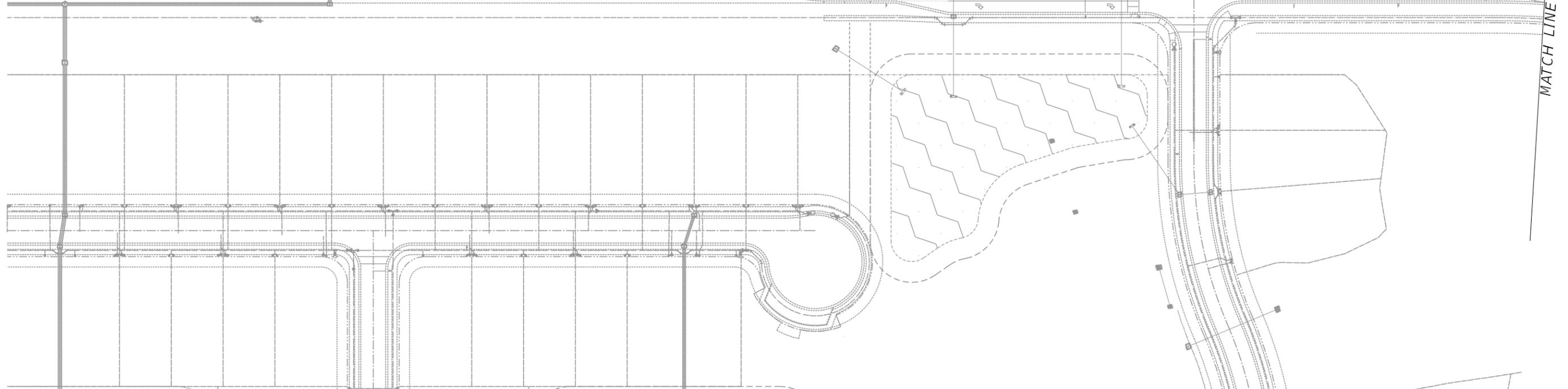
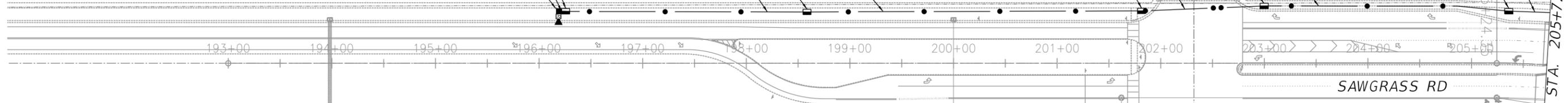
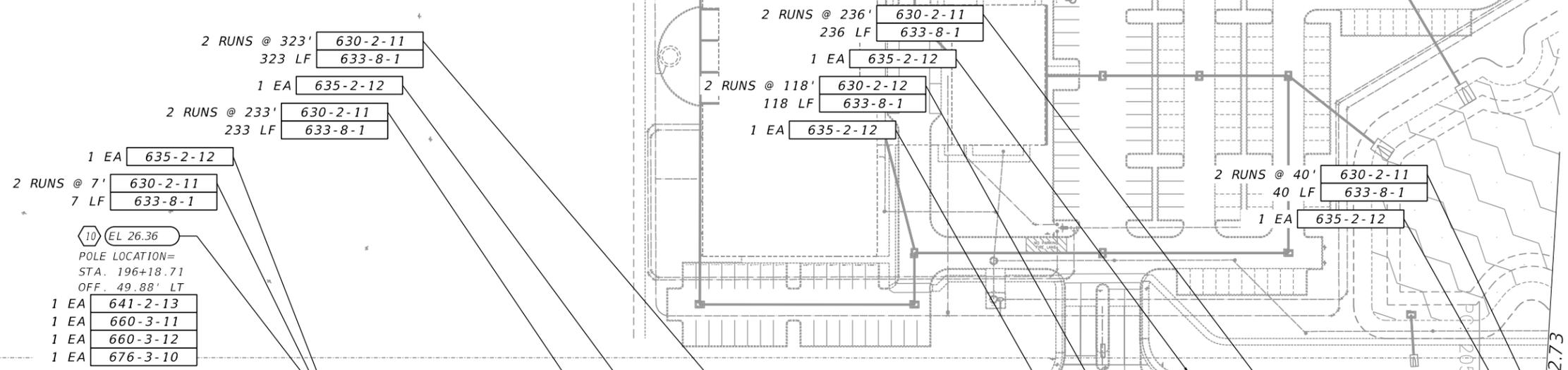
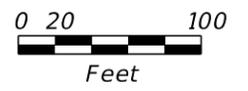
MATCH LINE STA. 178+37.51

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REVISIONS		ENGINEER OF RECORD		MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES			INTERCONNECT COMMUNICATION PLAN	SHEET NO. T-21
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	STANTEC PROJECT NO.		
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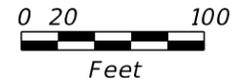
JOSEPH LEFANTE, P.E.
 P.E. LICENSE NUMBER 84944
 STANTEC CONSULTING SERVICES INC.
 1340 POYDRAS STREET, SUITE 1420
 NEW ORLEANS, LA 70112



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REVISIONS		ENGINEER OF RECORD		MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES			INTERCONNECT COMMUNICATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	STANTEC PROJECT NO.		T-22
			JOSEPH LEFANTE, P.E. P.E. LICENSE NUMBER 84944 STANTEC CONSULTING SERVICES INC. 1340 POYDRAS STREET, SUITE 1420 NEW ORLEANS, LA 70112	MOCCASIN WALLOW RD	MANATEE	215617221		



① EL 28.04
 POLE LOCATION=
 STA. 220+92.09
 OFF. 58.50' LT
 1 EA 641-2-13
 1 EA 660-3-11
 1 EA 660-3-12
 1 EA 676-3-10

2 RUNS @ 9' 630-2-11
 9 LF 633-8-1

1 EA 635-2-12

2 RUNS @ 479' 630-2-11
 479 LF 633-8-1

630-2-11 2 RUNS @ 169'
 633-8-1 169 LF

635-2-12 1 EA

PRC: 277+99.40

MATCH LINE STA. 214+30.60

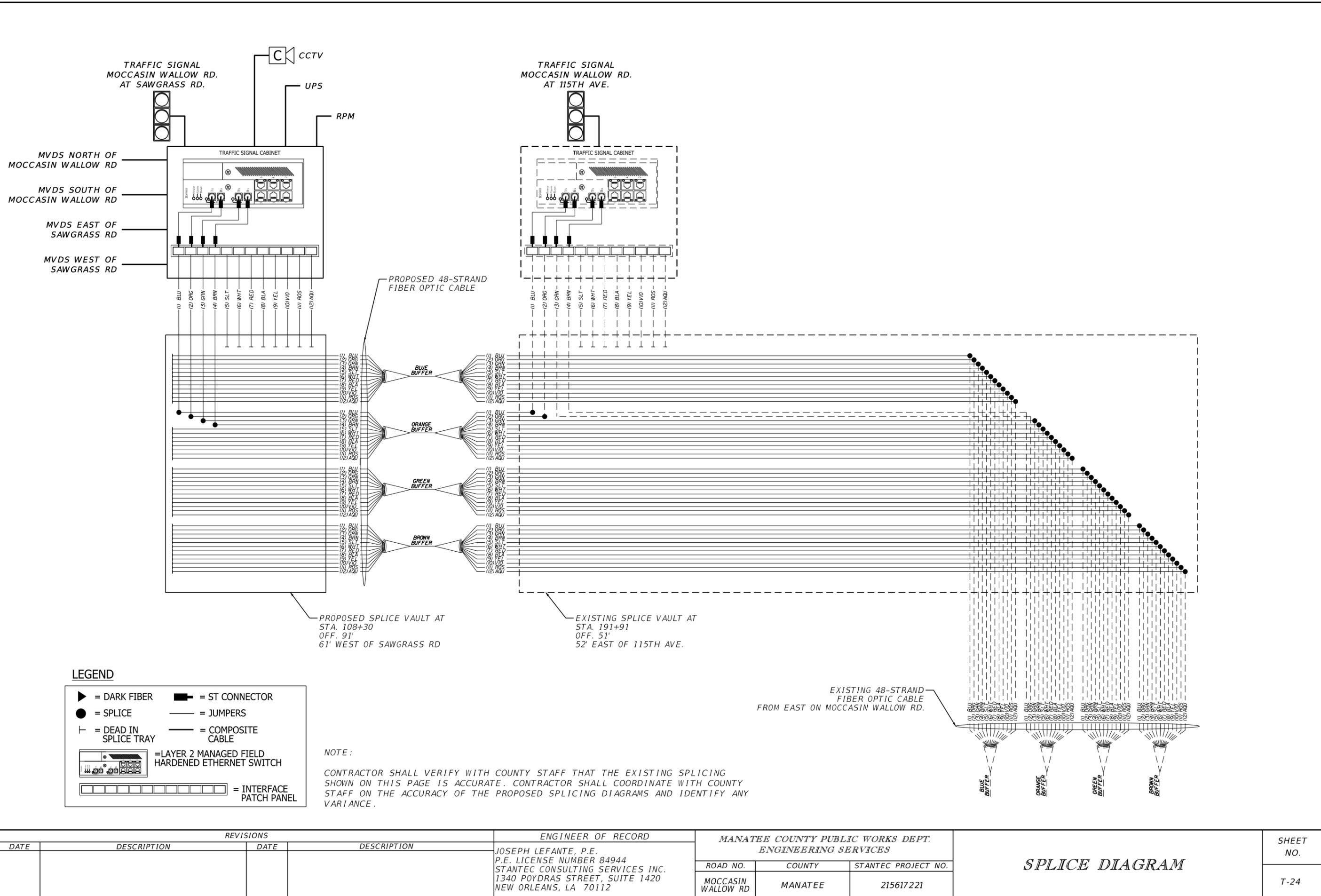
SAWGRASS RD

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 C:\work\sets\FDOT\215617221 Moccasin Wallow Seg 2\Signalization\PLDT5G01.dgn

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

REVISIONS				ENGINEER OF RECORD		MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES			INTERCONNECT COMMUNICATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JOSEPH LEFANTE, P.E. P.E. LICENSE NUMBER 84944 STANTEC CONSULTING SERVICES INC. 1340 POYDRAS STREET, SUITE 1420 NEW ORLEANS, LA 70112		ROAD NO.	COUNTY	STANTEC PROJECT NO.		T-23
						MOCCASIN WALLOW RD	MANATEE	215617221		

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LEGEND

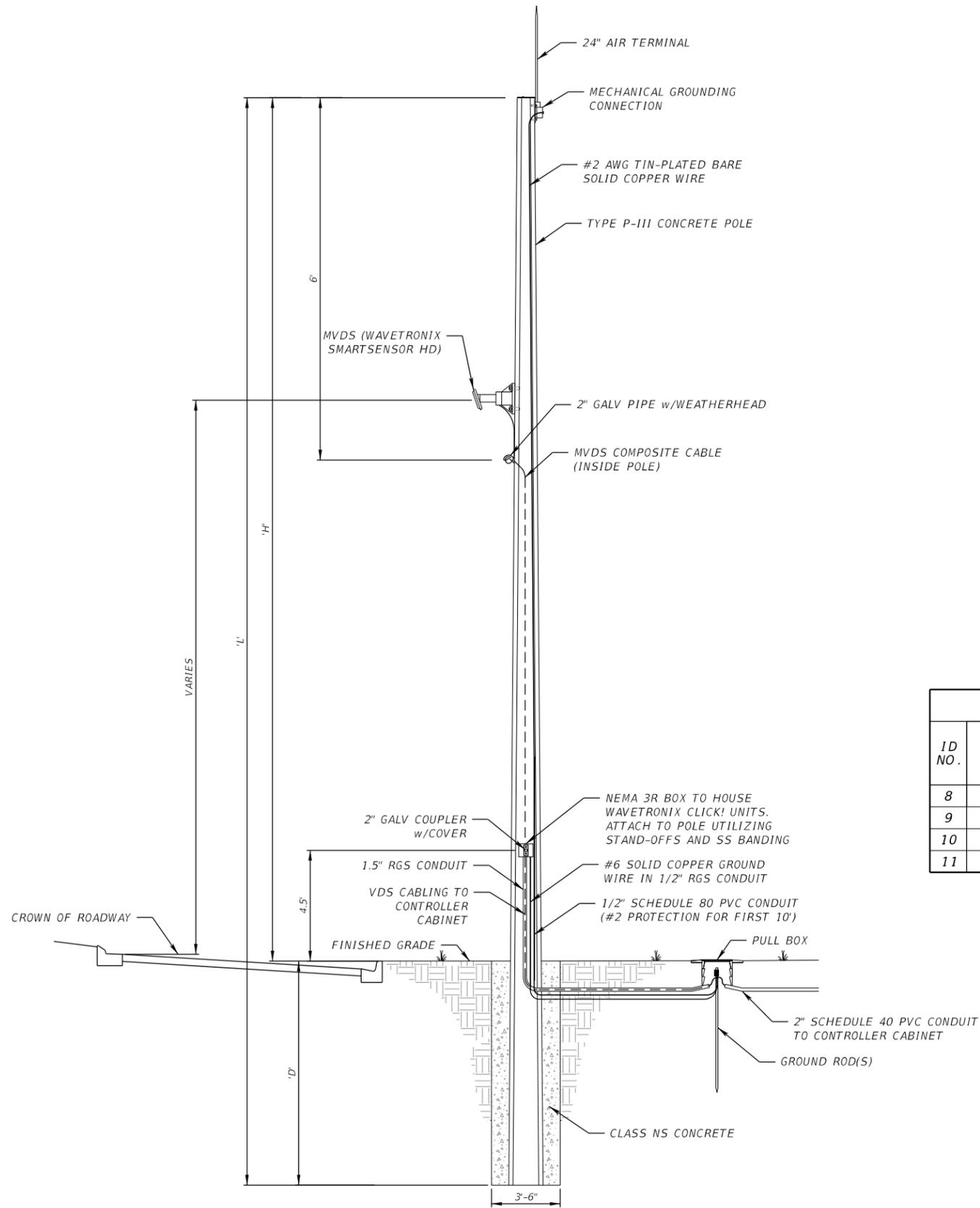
- ▶ = DARK FIBER
- = SPLICE
- └ = DEAD IN SPLICE TRAY
- = LAYER 2 MANAGED FIELD HARDENED ETHERNET SWITCH
- = INTERFACE PATCH PANEL
- = ST CONNECTOR
- = JUMPERS
- = COMPOSITE CABLE

NOTE:
 CONTRACTOR SHALL VERIFY WITH COUNTY STAFF THAT THE EXISTING SPlicing SHOWN ON THIS PAGE IS ACCURATE. CONTRACTOR SHALL COORDINATE WITH COUNTY STAFF ON THE ACCURACY OF THE PROPOSED SPlicing DIAGRAMS AND IDENTIFY ANY VARIANCE.

REVISIONS				ENGINEER OF RECORD		MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	STANTEC PROJECT NO.	
				JOSEPH LEFANTE, P.E. P.E. LICENSE NUMBER 84944 STANTEC CONSULTING SERVICES INC. 1340 POYDRAS STREET, SUITE 1420 NEW ORLEANS, LA 70112		MOCCASIN WALLOW RD	MANATEE	215617221	T-24

SPLICE DIAGRAM

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NOTES:

1. WORK THIS SHEET WITH FDOT 2019-20 STANDARD PLANS INDEX 641-010.
2. THE NEMA 3R BOX AND MOUNTING ARMS FOR THE MVDS SHALL BE ATTACHED TO THE POLE USING 3/4" STAINLESS STEEL BANDING.
3. INSTALL GROUNDING FOR THE MVDS SITE PER THE FDOT JULY 2019 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 620. ACHIEVE A GROUND RESISTANCE AS DESCRIBED FOR ITS POLES/STRUCTURES WITH ELECTRONIC EQUIPMENT. FOLLOW PROCEDURES FOR TESTING AND DOCUMENTATION. THE MAIN POLE GROUND ROD ASSEMBLY SHALL BE LOCATED IN THE NEAREST PULL BOX FOR MAINTENANCE ACCESS.
4. CONFIRM MANUFACTURER RECOMMENDATIONS FOR ALL EQUIPMENT AND MOUNTING HEIGHT DIMENSIONS PRIOR TO INSTALLATION.
5. THE CONTRACTOR SHALL BE REQUIRED TO INTEGRATE THE MVDS INTO THE COUNTY'S EXISTING ATMS SYSTEM AND CALIBRATE THE MVDS UNITS IN THE PRESENCE OF COUNTY STAFF.

STRAIN POLE SCHEDULE

ID NO.	SHEET NO.	POLE LOCATION		FINAL GRADE ELEVATION	CROWN ELEVATION	POLE TYPE	POLE LENGTH (L)	POLE HEIGHT (H)	CONCRETE POLE DEPTH (D)
		STATION	OFFSET						
8	T-15	96+93.22	51.04' RT	27.67'	28.07'	P-III	35'	28'	7'
9	T-16	118+6.49	91.37' LT	28.49'	29.01'	P-III	35'	28'	7'
10	T-22	196+18.71	49.88' LT	26.36'	26.42'	P-III	35'	28'	7'
11	T-23	220+92.09	58.50' LT	28.04'	27.89'	P-III	35'	28'	7'

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REVISIONS				ENGINEER OF RECORD			MANATEE COUNTY PUBLIC WORKS DEPT. ENGINEERING SERVICES			SHEET NO.
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							MOCCASIN WALLOW RD	MANATEE	215617221	T-25

MVDS DETAILS