#### CONTRACT DRAWINGS



# CORTEZ ROAD WEST (SR 684) AT 26TH STREET WEST INTERSECTION IMPROVEMENTS

FOR

MANATEE COUNTY, FLORIDA
COUNTY PROJECT NUMBER: 6077060
FINANCIAL PROJECT ID: 425531-1-58-01
(FEDERAL FUNDS)
SIGNALIZATION PLANS
SIGNAL ID NUMBER: 449

#### GOVERNING STANDARDS AND SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS, DATED 2010 AND APPLICABLE SECTIONS, ARTICLES AND SUBARTICLES OF DIVISION I AND ALL DIVISION II & III OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2010, AS AMENDED BY CONTRACT DOCUMENTS.

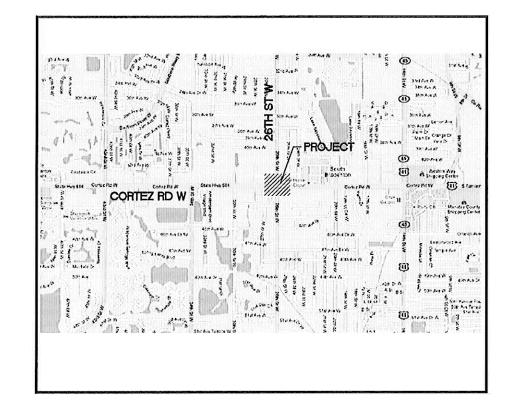
APPLICABLE DESIGN STANDARDS MODIFICATIONS: 1-1-11, FOR DESIGN STANDARDS MODIFICATIONS CLICK ON "DESIGN STANDARDS" AT THE FOLLOWING WEB SITE: HTTP://WWW.DOT.STATE.FL.US/RDDESIGN/.

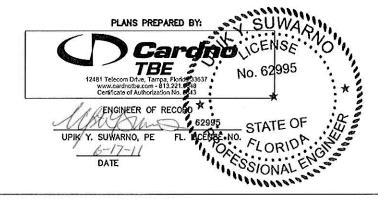
ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA

#### UTILITY WARNING NOTE

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

	SUMMARY OF REVISIONS	
DATE	DESCRIPTION	





#### INDEX OF SIGNALIZATION PLANS

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T-14	REPORT OF MAST ARM BORINGS

#### SHOP DRAWINGS TO BE SUBMITTED TO:

UPIK Y. SUWARNO, P.E. CARDNO TBE 12481 TELECOM DRIVE TAMPA, FLORIDA 33637 (727) 221-0048



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

JUNE 2011

DATE: 06-17-11

SCALE: HORIZ: H/A
VERT: N/A

SHEET: T-1

SCALE: 40 FILENAME: 11:\ROH\CORTE

Tuc. 10.61

### TABULATION OF QUANTITIES

PAY	DESCRIPTION	UNIT											NUMBERS									TH	TAL HIS EET	GRA TO		REF. SHEET
ITEM NO.	DESCRIPTION	Onti		_	<i>T-</i>		<i>T-</i>	Adventure and	18 k mmm - 2,020 s	-12	<i>T</i> -				1								indian.	5000	=00.00	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN FINAL	. PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
101-1	MOBILIZATION	LS	1			ļ						<u> </u>							***************************************	<b> </b>		<del>+</del>		<del>                                     </del>		
102-1	WAINTENANCE OF TRAFFIC	LS	<u> </u>	ļ	<u> </u>	ļ			103		12		<u> </u>		+	-				<b></b>		198	<b>!</b>	198		
110-4	REMOVAL OF EXISTING CONCRETE PAVEMENT	SY SY		<del> </del>	ļ	ļ	83		103		12				+	<del> </del>				<b></b>		12		12		<u> </u>
285-709 334-1-13	OPTIONAL BASE, BASE GROUP 9 SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C	TH	<u> </u>	-		<del> </del>			-		1.0				+	<del> </del>						1.0		1.0		
337-7-31	ASPHALT CONCRETE FRICTION COURSE	TH	<u> </u>	<b>-</b>	<u> </u>	<del> </del>	<del> </del>	<del> </del>	+	_	1.0			<del></del>	+							1.0		1.0		
520-1-10	CONCRETE CURB & GUTTER, TYPE F CURB	LF					96		84		20				1							200		200		
520-5-12	CONCRETE TRAFFIC SEPARATOR	LF		<del> </del>					<del>                                     </del>		6											6		6		
522-2	6" CONCRETE SIDEWALK	SY					139		176						1							315		315		
555-1-2	DIRECTIONAL BORE (6" TO (12") (2" HDPE)	LF	350							10												350		350		
630-1-11	CONDUIT (F&I) (ABOVEGROUND) (2")	LF	40																			40		40		
630-1-12	CONDUIT (F&I) (UNDERGROUND) (1.25")	LF	5																			5		5		
630-1-12	CONDUIT (F&I) (UNDERGROUND) (2")	LF	321																			321		321		
630-1-13	CONDUIT (F&I) (UNDERPAVENENT)	LF	140																			140		140		
632-7-1	CABLE (SIGNAL) (F&I)	PI	1								ļ											1.		1		
635-1-11	PULL & JUNCTION BOXES (F&I) (PULL BOX)	EA	16		<u> </u>	<u> </u>									1	<b>  </b>						16		16		
639-1-22	ELECTRICAL POWER SERVICE (UNDERGROUND)	AS	1	1		<b> </b>			<b> </b>		ļ					<b>├</b> ── <b>├</b>				<b> </b>		<del>  '                                   </del>	<b> </b>	$\vdash$		<u> </u>
	(PURCHASED BY CONTRACTOR FROM POWER CO)	<b> </b>			<u> </u>	<b></b>		ļ	<b> </b>		ļ	ļ			1	++				<del>  -</del>		291		291		
639-2-1	ELECTRICAL SERVICE WIRE (F&I)	LF	291			1	<del> </del>			10	-	<b></b>			1	-				<del>  -</del>		291		1		
641-2-12	PRESTRESSED CONCRETE POLE (F&I)	EA				1	<del> </del>	<u> </u>	-		<b>_</b>	<del> </del>	<b>  </b>	_	-	<del>  -</del>						+ '		<del>- '</del>		
640_TI_000	(TYPE P-11 SERVICE POLE) (12FT)	EA	4		<b> </b>	<del> </del>	<del> </del>	<b> </b>	<b> </b>			<del> </del>		-	+					<del>  -</del>		4		4		<u> </u>
649-31-299 650-51-311	STEEL MAST ARM ASSEMBLY (F&I)(130 MPH)(CUSTOM)  TRAFFIC SIGNAL (F&I) (3-SECT.) (1-WAY) (LED)	AS	9	<del> </del>		<del> </del>	<del> </del>	<del>                                     </del>	1		<del>                                     </del>	<del> </del>			1	++						9		9		
650-51-511	TRAFFIC SIGNAL (F&I) (5-SECT.) (1-WAY) (LED)	AS	2			-	<del> </del>	<b></b>				·		-	+			TOTAL CONTRACTOR				2		2		
653-191	PEDESTRIAN SIGNAL (F&I) (LED COUNTDOWN) (I WAY)		8	<del> </del>		-	-		-						+					<b></b>		8		8		
659-106	SIGNAL HEAD AUXIL. (F&I) (TUNNEL VISOR)	EA	37	-		<u> </u>	<del> </del>					<del> </del>			1							37		37		
659-107	SIGNAL HEAD AUXIL. (F&I) (ALUMINUM PEDESTAL)	EA	8	<b>†</b>		<b></b>	<b> </b>		1													8		8		
663-74-15	VEHICLE DETECTOR ASSEMBLIES (F&I) (VIDEO)	EA	4																			4		4		
665-13	PEDESTRIAN DETECTOR (F&I) (WITH SIGN ONLY)	EA	8																			8		8		
670-5-110	TRAFFIC CONTROLLER ASSEMBLY (F&I) (NEMA)	AS	1																			1		1		
	(NO PREEMPTION)																									
685-106	UNINTERRUPTIBLE POWER SOURCE (UPS)	EA	1																			1				
690-10	REMOVE SIGNAL HEAD ASSEMBLY	EA	10																			10		10		
690-20	REMOVE SIGNAL PEDESTRIAN ASSEMBLY	EA	8											12	_							8		8		
690-31	REMOVE SIGNAL PEDESTAL	EA	2	[]											-	<u> </u>						2		2		20.000000
690-34-1	REMOVE POLE (DEEP) (DIRECT BURIAL)	EA	4			ļ			-						-			····				2		2		2290000 ann 3200
690-50	REMOVE CONTROLLER ASSEMBLY	EA EA	13												+							13		13		COMMUNICATION CONTRACTOR
690-60 690-70	REMOVE VEHICLE DETECTOR ASSEMBLY REMOVE DETECTOR PEDESTRIAN ASSEMBLY	EA	8						-						-					<del> </del>		8		8		
690-80	REMOVE SPAN WIRE ASSEMBLY	EA	4												1					<del> </del>		4		4		
690-90	REMOVE CONDUIT & CABLING	PI	7						1						1					l		1 i		i		
690-100	REMOVE MISCELLANEOUS SIGNAL EQUIPMENT	PI	<del>'</del>											<u> </u>								1 7		7		
699-1-1	INTERNALLY ILLUMINATED SIGN (F&I)(EDGE LIT LED)		4								l											4		4		
700-20-11	SINGLE POST SIGN (F&I), R3-7R	AS							T													1 1	***************************************	1		
700-48-60	SIGN PANEL (REMOVE)	EA	3																			3	ya'''aaana <del>anaan</del>	3		and the second second
705-11-3	DELINEATOR, FLEXIBLE HIGH VISIBILITY (WEDIAN)	EA			2																	2		2		
710-11-290	PAINT, STANDARD YELLOW, ISLAND NOSE	SF			10	<u> </u>																10		10	AND 17 TO AN ALL HILLION AND AN ANALYSIS AND AN ANALYSIS AND AN ANALYSIS AND ANALYSIS ANALYSIS AND ANALYSIS ANALYSIS AND ANALYSIS AND ANALYSIS AND ANALYSIS ANAL	
711-11-123	THERMOPLASTIC PAVEMENT MARKINGS (12" WHITE)	LF			660	<u> </u>								_		<b>  </b>				<b></b>		660		660		
711-11-125	THERMOPLASTIC PAVENENT MARKINGS (24" WHITE)	LF			165				<b>_</b>		<b></b>				-					-		165		165		
711-17	REMOVE THERMOPLASTIC PAVEMENT WARKINGS	SF	07.5		2095	<del> </del>	<b> </b>	<b> </b>						-	-	-			). 	<b> </b>		2095 975		2095 975		
780-1-12	ITS POWER SERVICE WIRE	LF LF	975 25			<del> </del>	-		1		<del> </del>			-		+						25		25		
783-1-121 783-2-31	ITS FIBER OPTIC CABLE (F&I)   ITS FIBER OPTIC (INSTALL) (SPLICE)	EA	25 4			<del> </del>	<b> </b>	<b> </b>	1			<b></b>		-						<b></b>		4		4		
784-1-1	ITS FIELD ETHERNET SWITCH	EA	7			<del>                                     </del>			1					-		++						1 7		i		
107 1"1	TO I ILLU LINENTEI SHIIVII	<del></del>	<del>'</del>			<del>                                     </del>			1		<del>                                     </del>	<b></b>								<b> </b>		'				
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NO. DESCRIPTION BY DATE

CORTEZ ROAD WEST AND 26TH STREET WEST

**MANATEE COUNTY** 





TABULATION OF QUANTITIES DATE:

PROJECT NO: 00193-008-06 DATE: 05-12-11

TLE: 0.U08/0193/00193-008-06-ACADITABQSG01.dwg LAST SAVED: Thu, 05/12/11-4:12p PLOTTED: Thu, 05/12/11-4:13p BY: U/s

I. AT LEAST TWO (2) FULL BUSINESS DAYS PRIOR TO BEGINNING THE TRAFFIC SIGNAL INSTALLATION, PERMITTEE TO CONTACT THE TRAFFIC SIGNAL INSPECTOR/LIAISON:

MR. CARLOS CABRERA FLORIDA DEPARTMENT OF TRANSPORTATION SARASOTA OPERATIONS CENTER 1840 6IST STREET SARASOTA, FLORIDA 34243

PH: 941-359-7317

2. ONE WEEK PRIOR TO THE BEGINNING OF THE TRAFFIC SIGNAL INSTALLATION, LOOP CUTTING, OR TURN ON OF A NEW SIGNAL, THE CONTRACTOR SHALL NOTIFY:

MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT MANAGEMENT DIVISION 1022 26TH AVENUE EAST BRADENTON, FLORIDA 34208 PHONE: 941-708-7510

MANATEE COUNTY PUBLIC WORKS DEPARTMENT TRAFFIC ENGINEERING DIVISION 2101 47TH TERRACE EAST BRADENTON, FLORIDA 34203 PHONE: 941-749-3502

- 3. TWO (2) FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION, CONTACT F.D.O.T. OPERATIONS CENTER, TELEPHONE 941-359-7317.
- 4. WHEN CONSTRUCTION IS COMPLETE, PROVIDE A SET OF "AS-BUILT" PLANS TO:

MANATEE COUNTY PUBLIC WORKS DEPARTMENT PROJECT MANAGEMENT DIVISION 1022 26TH AVENUE EAST BRADENTON, FL 34208-1000

5. MAINTAINING AGENCY:

MANATEE COUNTY TRAFFIC OPERATIONS DIVISION 2404 I2TH STREET COURT EAST BRADENTON, FLORIDA 34208

6. TRAFFIC SIGNAL ACCEPTANCE INSPECTIONS SHALL BE COORDINATED WITH F.D.O.T. TRAFFIC SIGNAL INSPECTOR/LIAISON A MINIMUM OF TWO FULL BUSINESS DAYS NOTICE.

RESULTS OF FIELD TESTS SHALL BE MADE AVAILABLE TO THE PROJECT ENGINEER IN WRITTEN FORM. A QUALIFIED CONTRACTOR'S REPRESENTATIVE SHALL BE PRESENT AT THE CONDITIONAL ACCEPTANCE INSPECTION OF THE CONTROLLER ASSEMBLY. THE QUALIFICATIONS OF THE REPRESENTATIVE SHALL INCLUDE:

- A) COMPLETE FAMILIARITY WITH ALL SYSTEM ELEMENTS INCLUDING CONTROLLERS, COORDINATING UNITS, SYSTEM CLOCKS AND SYSTEM COMMUNICATIONS ELEMENTS. THE REPRESENTATIVE SHALL BE QUALIFIED TO INPUT AND RECALL ALL CONTROLLER AND SYSTEM TIMING FUNCTIONS.
- 7. WHEN CONSTRUCTION DEVIATES FROM APPROVED PERMIT PLANS INCLUDING POSSIBLE EASEMENTS, PERMITTEE TO FURNISH THE DEPARTMENT OF TRANSPORTATION ONE SET OF "AS BUILT" PLANS FOR FDOT RECORDS;

DEPARTMENT OF TRANSPORTATION P.O. BOX 1249 (STREET ADDRESS: 801 N. BROADWAY AVE) BARTOW. FLORIDA 33831 ATTENTION: TRAFFIC OPERATIONS - SIGNAL DESIGN

- 8. THIS SIGNAL TO FLASH FOR A MINIMUM OF TWO (2) FULL BUSINESS DAYS BEFORE BEING PLACED INTO FULL OPERATION. FLASHING OPERATION SHALL START ON A MONDAY, TUESDAY OR WEDNESDAY. HOWEVER, THE FLASHING OPERATION SHALL NOT START ON THE DAY PRECEDING A HOLIDAY.
- 9. SIGNAL TO BE PLACE IN FULL OPERATION ON A MONDAY, TUESDAY, OR WEDNESDAY, BUT SHALL NOT BE PLACED IN FULL OPERATION ON THE DAY
- 10. ALL TRAFFIC SIGNAL POLES SHALL BE LOCATED IN ACCORDANCE WITH PLANS PREPARATION MANUAL (LATEST EDITION), SECTION 2.11 AND TABLE 2.11.4 (CLEAR ZONE WIDTHS) IN THE EVENT RAW OR IRRESOLVABLE UTILITY CONFLICTS PROHIBIT POLE PLACEMENT ACCORDING TO SECTION 2.11.4, CONTRACTOR SHALL CONTACT TRAFFIC OPERATIONS ENGINEER AND/OR DISTRICT DESIGN ENGINEER FOR DIRECTION IN THE EVENT THAT RAW OR UTILITY CONFLICTS PROHIBIT POLE PLACEMENT.
- II. THE CONTRACTOR IS TO COORDINATE WITH THE POWER COMPANY PERFORMING ALL NECESSARY WORK UNDER THEIR POWER LINES, SUCH AS THE INSTALLATION OF SPAN WIRE, SIGNAL CABLE, FIBERGLASS INSULATORS AND SIGNAL POLES. CONTRACTOR SHALL NOTIFY THE POWER COMPANY AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO INSTALLATION OF THIS EQUIPMENT.
- 12. THE CONTRACTOR IS RESPONSIBLE TO CONTACT MANATEE COUNTY AT 941-749-3502, FOR THE ASSIGNMENT OF THE PHYSICAL ADDRESS ONCE THE SERVICE DROP LOCATION HAS BEEN ESTABLISHED.
- 13. EXTREME CARE TO BE TAKEN TO INSURE THAT ALL SIGNAL EQUIPMENT IS INSTALLED AS SHOWN IN PLANS WITHIN EXISTING RIGHT-OF-WAY.
- 14. MAINTAINING AGENCY TO COORDINATE UTILITY RELOCATION IF NECESSARY.
- 15. FOR REMOVED SIGNAL EQUIPMENT CLAIMED BY MAINTAINING AGENCY CONTACT:

MANATEE COUNTY TRAFFIC OPERATIONS DIVISION 2404 I2TH STREET COURT EAST BRADENTON, FLORIDA 34208

- 16. WORK ZONE TRAFFIC CONTROL
  - A. THE CRITERIA AS OUTLINED IN THE "MINIMUM SPECIFICATIONS FOR TRAFFIC CONTROL SIGNALS AND DEVICES", SHALL BE ADHERED TO FOR SIGNAL WORK, MAINTAIN TRAFFIC BY USE OF TRAFFIC CONTROL INDEXES IN THE F.D.O.T. ROADWAY TRAFFIC DESIGN STANDARDS BOOKLET DATED JANUARY 2010. NO LANE CLOSURES WILL BE ALLOWED BETWEEN 6:00 A.M. AND 9:00 A.M. AND BETWEEN 4:00 P.M. AND 7:00 P.M.
  - B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING SAFE AND EFFICIENT OPERATION DURING SIGNAL INSTALLATION.
- T. THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS OF ALL UTILITIES.
- 18. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
- 19. THE CONTRACTOR TO NOTIFY UTILITY OWNERS OF ANY EXCAVATION OR DEMOLITION ACTIVITY THROUGH SUNSHINE ONE CALL OF FLORIDA INC. (I-800-432-4770) AND SHALL ALSO NOTIFY THOSE UTILITY OWNERS/ AGENCIES LISTED WITHIN OR IMPACTED BY THESE PLANS, NOT LESS THAN TWO (2) FULL BUSINESS DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

- 20. THE CONTRACTOR SHALL HAND DIG THE FIRST 48 INCHES (4 FEET) OF THE HOLE FOR THE POLE FOUNDATION OR CONDUIT RUN WHERE UTILITIES ARE IN CLOSE PROXIMITY.
- 21. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING OR BORING.
- 22. THE TYPE OF EQUIPMENT USED IN THE INSTALLATION OF MAST ARMS/ FOUNDATIONS. OVERHEAD CANTILEVER SIGNS/ FOUNDATIONS, AND THE MOVEMENT/INSTALLATION OF STRAIN POLES SHALL MEET THE FOLLOWING REQUIREMENTS: 1) OVERHEAD LINES SHALL STAY IN PLACE BOTH VERTICALLY AND HORIZONTALLY AND 2) CONTRACTOR SHALL MEET ALL LATEST APPLICABLE OSHA REQUIREMENTS ANY COST ASSOCIATED WITH THE TYPE OF EQUIPMENT REQUIRED FOR THIS INSTALLATION SHALL BE INCLUDED IN THE RELATED PAY ITEMS.
- 23. THE CONTRACTOR SHALL COORDINATE WITH MANATEE COUNTY TRAFFIC ENGINEERING DIVISION ABOUT THE ON GOING MANATEE ATMS PROJECT THAT INCLUDES THIS INTERSECTION PRIOR TO START OF CONSTRUCTION AND ORDERING OF MATERIAL.
- 24. THE CONTRACTOR SHALL FIELD VERIFY ALL CRITICAL ELEVATIONS PRIOR TO ORDERING MAST ARMS.
- 25. DETECTION MUST BE MAINTAINED FOR PEDESTRIANS AND THE SIDE STREETS FOR THE LIFE OF THE PROJECT.
- 26. WHEN A CONTRACTOR IS WORKING ON A SIGNAL IN AN INTERSECTION (INSTALLING CONDUIT IN THE STREET, REMOVING EXISTING SIGNAL EQUIPMENT, INSTALLING SIGNAL EQUIPMENT, LOOPS, HOMERUNS OR TURNING ON OF NEW SIGNAL WHERE A LANE IS CLOSED. THE ENGINEER MAY REQUIRE AN OFF DUTY LAW ENFORCEMENT OFFICER TO DIRECT TRAFFIC. THE HOURLY RATE OF PAY FOR AN OFF DUTY LAW ENFORCEMENT OFFICER CAN BE OBTAINED FROM THE LOCAL LAW ENFORCEMENT OFFICE. THE COST OF THE OFFICER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- 27. CONTRACTOR IS ADVISED THAT THE F.D.E.P. DATABASE INDICATES THAT SOIL IN THE PROJECT AREA FOR THE SIGNAL FOUNDATIONS MAY BE CONTAMINATED WITH PETROLEUM PRODUCTS. THE EXTENT OF POTENTIAL IMPACTS WITHIN THE PROJECT AREA HAS NOT BEEN FULLY DELINEATED HORIZONTALLY OR VERTICALLY FOR SOIL, GROUNDWATER, OR SURFACE WATER AS OF THE DATE OF THESE PLANS. CONTRACTOR IS ADVISED THAT ALL EXCAVATED SOILS ON THE SOUTHEAST CORNER AND NORTHWEST CORNER MUST BE REMOVED FROM THE SITE AND TRANSPORTED TO A STATE APPROVED CONTAMINATED SOLID DISPOSAL FACILITY. THIS APPLIED TO CLEARING, GRUBBING, EXCAVATION, STAGING, HANDLING, AND/OR DISPOSAL REQUIREMENTS OF ON-SITE SOILS. EXCAVATION OR DEWATERING LIMITATIONS AND SAFETY PRECAUTIONS MAY BE NECESSARY.
- 28. OVERHEAD FACILITIES TO REMAIN ENERGIZED AND IN PLACE. TABLE "A" "MINIMUM CLEARANCE DISTANCES" SPECIFIED IN SUBPART CC OF OSHA RULE 1926 (AS THEY PERTAIN TO CRANE/ DERRICK OPERATIONS, AND/OR THOSE MINIMUM DISTANCES SPECIFIED IN 29 CFR 1910.333(CX3XIXA) AND (111XA) FOR WORK IN PROXIMITY TO POWER LINES NOT COVERED BY THIS SUBPART CC, ARE TO BE MAINTAINED.



STONAL ET 100 ONAL ELLO **GENERAL NOTES** 

00193-008-05 05-06-11 SHEET NO:

PROJECT NO:

MANATEE COUNTY

**CORTEZ ROAD AND 26TH STREET WEST** 

Cardno TBE 12481 Telecom Drive, Tampa, Florida 33637 www.cardnotbe.com - 813.221.0048 Certificate of Authorization No. 3843

DESCRIPTION

#### PAY ITEM FOOTNOTES :

*I*. 555-1-2₽

COST FOR PULL WIRE IS INCLUDED UNDER THIS PAY ITEM.
USE A MINIMUM OF 3" DIAMETER CONDUIT FOR FIBER OPTIC INTERCONNECT CABLE.
USE A MINIMUM 2" DIAMETER PVC CONDUIT FOR ALL SIGNAL, PEDESTRIAN, AND
DETECTION FUNCTIONS.

2. 630-1-11:

INCLUDES COST OF WEATHERHEAD.

3. 630-I-II, 630-I-I2, 630-I-I3:

USE A MINIMUM OF 3" DIAMETER CONDUIT FOR FIBER OPTIC INTERCONNECT CABLE. USE A MINIMUM 2" DIAMETER PVC CONDUIT FOR ALL SIGNAL, PEDESTRIAN, AND DETECTION FUNCTIONS.

4. 632-7-1:

VERIFY THE COLOR CODE OF SIGNAL CABLE WITH THE MAINTAINING AGENCY PRIOR TO WIRING INTERSECTION. USE A MINIMUM OF 7 CONDUCTOR SIGNAL CABLE FOR SIGNAL HEADS AND PEDESTRIAN HEADS.

5**.** 635-1-1/8

ALL PULL BOXES AND LIDS SHALL BE OF TRAFFIC BEARING, POLYMER CONCRETE CONSTRUCTION.

PULL BOXES ARE TO BE PLACED BEHIND CURB AND GUTTER, IF THERE IS NO CURB AND GUTTER, PULL BOXES SHALL BE PLACED A MINIMUM OF 7 FEET FROM THE EDGE OF THE PAVEMENT, THE TOP OF THE LID SHALL READ "TRAFFIC SIGNAL" IN STAMPED RAISED LETTERS.

USE POLYMER CONCRETE PULL BOX WITH A POLYMER CONCRETE, COVER MARKED "TRAFFIC SIGNAL" FOR FIBER COMMUNICATION AND/OR INTERCONNECT CABLE. USE 24" X 36" PULL BOXES PLACED A MINIMUM OF 800' APART.

APPROPRIATELY SIZE EACH PULL BOX SO THE FIBER COMMUNICATION AND/OR INTERCONNECT CABLE DOES NOT EXCEED MANUFACTURER'S RECOMMENDED BENDING RADIUS.

6. 639-1-22:

AN ADDITIONAL BREAKER SHALL BE ADDED FOR THE POWER TO THE CCTV.

THE BREAKERS SHALL BE CLEARLY MARKED. THE ELECTRICAL SERVICE DISCONNECT
IS 100 AMP, COMPRISING OF A SIX (6) CIRCUIT DISCONNECT BOX WITH THREE CIRCUIT
BREAKERS - ONE 50 AMP/120 VOLT FOR CONTROLLER/INTERNALLY ILLUMINATED STREET
NAME SIGN, ONE 15 AMP/120 VOLT FOR FUTURE USE, ONE 50 AMP/120 VOLT FOR THE CCTV.

USE RIGID GALVANIZED STEEL ABOVE GROUND CONDUIT FOR ELECTRICAL POWER SERVICE.

7. 639-2-1:

PAYMENT SHALL BE BASED ON THE LINEAR FOOT OF A SINGLE CONDUCTOR.

8. 649-31-202 & 649-31-205

USE THREE 2" AND ONE 3/4" CONDUITS STUBBED OUT THROUGH THE MAST ARM POLE FOUNDATION AND TEMPORARILY SEAL.

9. 650-51-311 & 650-51-511:

USE SIGNAL HEAD SUPPORTING TUBE THAT IS CAPABLE OF ADJUSTING VERTICALLY A MINIMUM OF 1.5 FEET.

DO NOT USE PLASTIC GARBAGE BAGS AS A COVERING FOR CONCEALNG SIGNAL HEADS.

INCLUDES THE COST OF BACK PLATES. USE LOUVERED ALUMINUM SIGNAL HEAD BACK
PLATES WITH A 2 INCH YELLOW REFLECTORIZED (TYPE III REFLECTIVITY) OUTER EDGE BORDER.

10. 653-1918

PEDESTRIAN SIGNAL HEADS TO BE 16" INTERNATIONAL SYMBOL, FDOT APPROVED LED COUNTDOWN TYPE.

II. 659-1078

USE BREAKAWAY ALUMINUM SQUARE BASE ASSEMBLIES WITH ALUMINUM DOORS FOR PEDESTRIAN PEDESTALS. INSIDE DIAMETER OF PEDESTALS SHALL BE FOUR INCHES (4").

USE LOCKING COLLARS WHEN MOUNTING PEDESTRIAN SIGNAL HEADS TO PEDESTRIAN PEDESTALS. USE LOCKING COLLARS WHEN MOUNTING ALUMINUM PEDESTRIAN POLES TO PEDESTRIAN PEDESTAL BASES.

12. 663-74-158

SEE PLAN SHEET FOR THE NUMBER OF VIDEO CAMERAS INCLUDED IN THE VIDEO DETECTION ASSEMBLY.

USE A 72" LONG GUSSET TUBE FOR VIDEO DETECTION CAMERA ATTACHMENT BRACKET. VIDEO DETECTION TO BE COMPATIBLE WITH MAINTAINING AGENCY'S EXISTING VIDEO DETECTION SYSTEM.

13. 665-13**:** 

USE PEDESTRIAN BUTTON SIGNAL SIGN FTP-68B-06. STREET NAME SHALL BE IN ACCORDANCE WITH THE STREET NAMES SHOWN ON THE SIGNALIZATION PLAN SHEETS.

14. 670-5-110**:** 

TOP OF CONTROLLER CABINET BASE TO BE SAME ELEVATION AS CROWN OF ROADWAY OR GREATER.

USE A TS2 TYPE I CONTROLLER WITH A TYPE V CABINET. ALL CONTROLLER EQUIPMENT TO BE COMPATIBLE WITH MANATEE COUNTY'S EXISTING ATMS SYSTEM (NAZTEC'S ATMS.NOW). CONTACT MAINTAINING AGENCY PRIOR TO ORDERING CONTROLLER ASSEMBLY TO CONFIRM EQUIPMENT COMPATIBILITY.

THE CONTRACTOR SHALL COORDINATE WITH MANATEE COUNTY TO PICK UP AND INSTALL THE GENERATOR CABINET ON THE NEW FOUNDATION. ALL COSTS OF LABOR, CONCRETE AND OTHER MATERIALS FOR THE CONTROLLER ASSEMBLY AND EGC BASES, TECHNICIAN PADS, STEPS AS REQUIRED, AND INSTALLATION OF THE GENERATOR CABINET ARE INCLUDED IN THIS ITEM. THE CONTROLLER AND EGC BASE SHALL BE AT LEAST 2' HIGH OR THE SAME ELEVATION AS THE CROWN OF THE ROADWAY, WHICHEVER IS GREATER. THE MAXIMUM DISTANCE FROM THE TECHNICIAN PAD OR STEP TO THE FOUNDATION TOP IS 4". THE CABINET DOORS SHALL OPEN TOWARDS OR PARALLEL TO THE RIGHT-OF-WAY LINE AND AWAY FROM TRAFFIC.

15. 685-1068

INCLUDE AN UNINTERRUPTED POWER SUPPLY UNIT (UPS) WITH AN 8 HOUR RUN TIME
AT 450 WATTS. ATTACH UPS UNIT TO THE OUTSIDE OF THE CONTROLLER CABINET.
INSTALL UPS UNIT IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

16. 699-1-1:

USE LED INTERNALLY ILLUMINATED STREET NAME SIGNS.
PHOTO ELECTRIC CELL IS TO BE MOUNTED INSIDE THE CONTROLLER CABINET.
THIS ITEM SHALL INCLUDE A PLEXIGLASS WINDOW KIT (LIGHT ACCESS) FOR THE
INSTALLATION OF A PHOTOELECTRIC CELL INSIDE THE CONTROLLER CABINET.
ALL INTERNALLY ILLUMINATED STREET NAMES SIGNS TO BE MOUNTED
RIGIDLY ON MAST ARM.

#### CONDUIT LEGEND

LV = SIGNAL LOW VOLTAGE CONDUIT (INCLUDES VID CABLE) HV = SIGNAL HIGH VOLTAGE CONDUIT

SP = SPARE CONDUIT

SUWARY PS = POWER SERVICE

MANATEE COUNTY

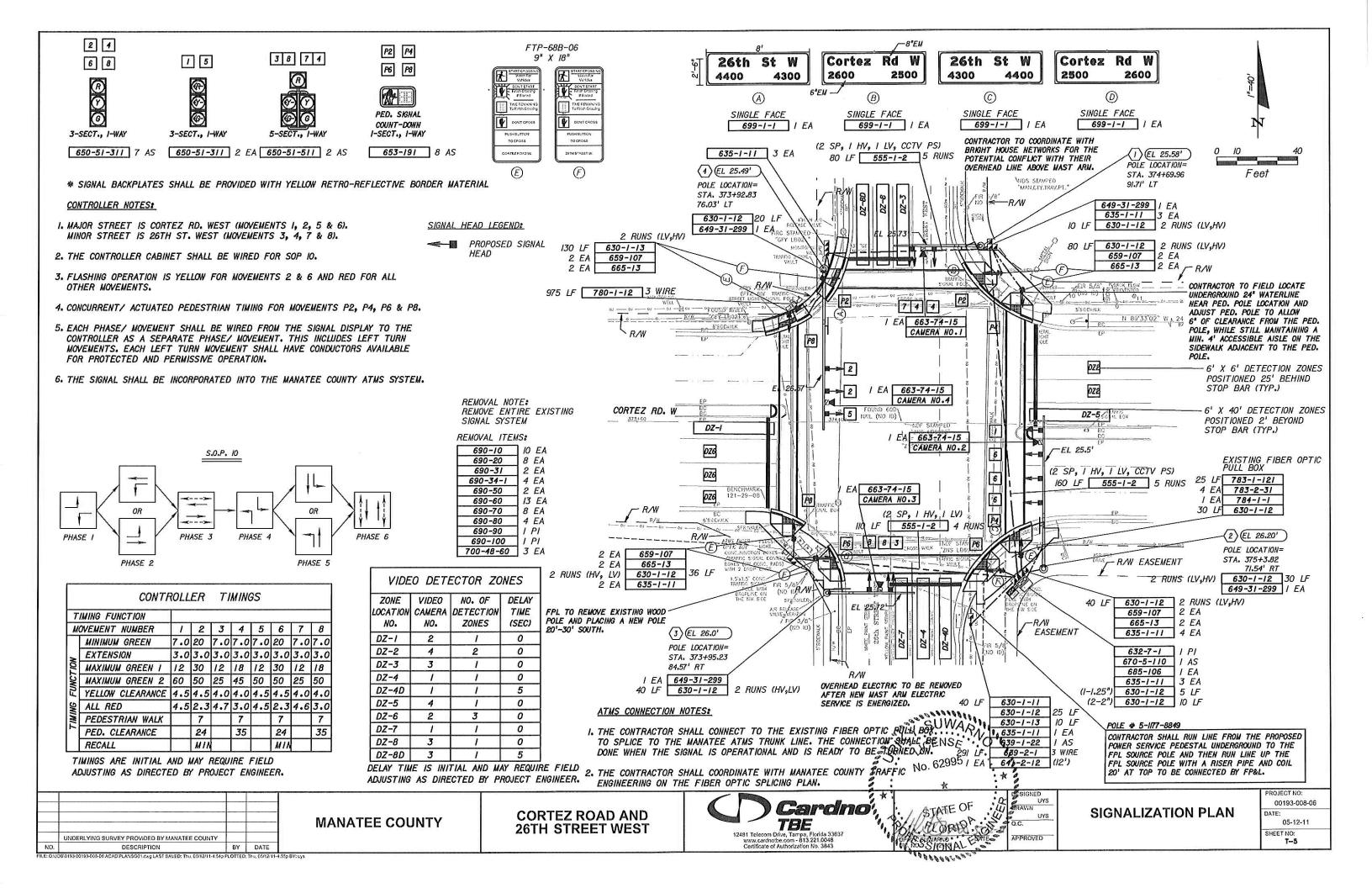
CORTEZ ROAD AND 26TH STREET WEST



PAY ITEM NOTES

PROJECT NO: 00193-008-06 DATE: 05-06-11

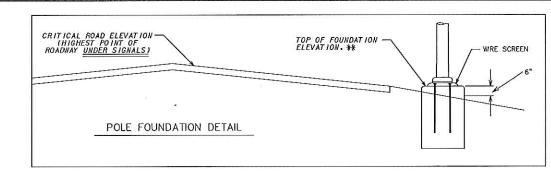
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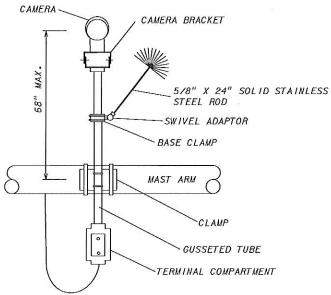


#### SPECIAL NOTES:

- A. EACH POLE AND MAST ARM SHALL BE IDENTIFIED WITH A PERMANENT ONE INCH (I") HIGH ENGRAVED OR IMPRESSED MARK WHICH BEARS THE POLE IDENTIFICATION NUMBER SHOWN ON THE PLANS.
- B. ANCHOR BOLT COVERS (ORNAMENTAL, NON-ORNAMENTAL, AND/OR PAINTED)
  SHALL BE GALVANIZED STEEL OR CAST ALUMINUM AND SHALL BE SECURED
  BY A MINIMUM OF TWO (2) THREADED FASTENERS. THE BOLT COVERS
  SHALL BE OF SUFFICIENT SIZE SO THAT THERE IS NO GAP BETWEEN
  ITSELF AND THE FOLE SHAFT.
- C. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL ELEVATIONS LISTED HEREIN.

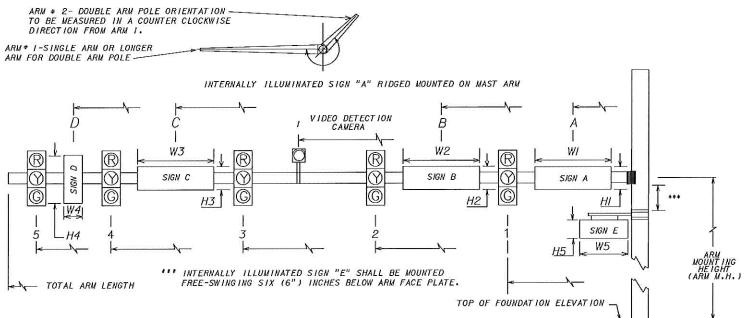
- D. INFORMATION BELOW IS FOR DESIGN PURPOSES ONLY. FIELD ADJUSTMENTS MAY BE REQUIRED.
- E. SEE APPROPRIATE PLAN SHEET FOR PROPOSED SIGNAL HEAD ALIGNMENTS AND SIGN CONFIGURATION/LOCATION.
- F. BACKPLATES REQUIRED FOR ALL SIGNALS HEADS.





CAMERA MOUNTING DETAIL (CONTACT MAINTAINING AGENCY FOR MOUNTING PREFERENCES.)

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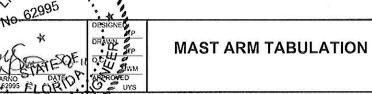
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NO. DESCRIPTION BY DATE

MANATEE COUNTY

CORTEZ ROAD AND 26TH STREET WEST





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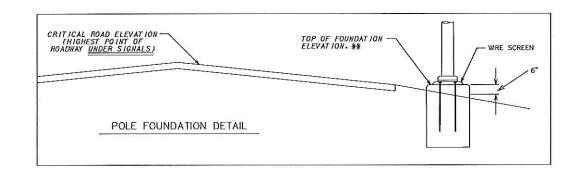
PROJECT NO: 00193-008-06 DATE: 05-06-11 SHEET NO:

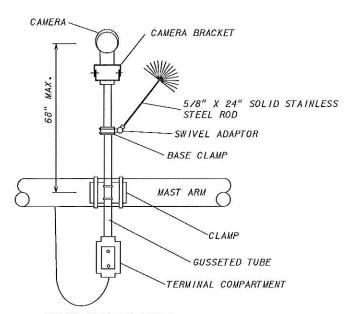
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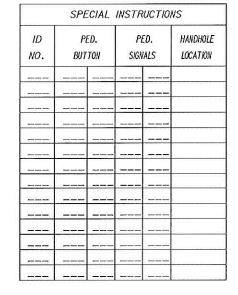
#### SPECIAL NOTES:

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- F. BACKPLATES REQUIRED FOR ALL SIGNALS HEADS.







ARM # 2- DOUBLE ARM POLE ORIENTATION -TO BE MEASURED IN A COUNTER CLOCKWISE DIRECTION FROM ARM I. ARM # I-SINGLE ARM OR LONGER ARM FOR DOUBLE ARM POLE INTERNALLY ILLUMINATED SIGN "A" RIDGED MOUNTED ON MAST ARM VIDEO DETECTION CAMERA W2 WI SIGN F SIGN A H2HI W4 SIGN E W5 "" INTERNALLY ILLUMINATED SIGN "E" SHALL BE MOUNTED FREE-SWINGING SIX (6") INCHES BELOW ARM FACE PLATE. TOTAL ARM LENGTH TOP OF FOUNDATION ELEVATION

CAMERA MOUNTING DETAIL (CONTACT MAINTAINING AGENCY FOR MOUNTING PREFERENCES.)

\* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY **VIDEO** SIGN DATA SIGNAL DATA DISTANCE FROM DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN TOTAL **L BETWEEN** STRUCT. POLE BACK PED. DISTANCE FROM POLE SHEET LOCATION CRITICAL FOUNDATION TOP OF SIGNAL ARM POLE ARU FOUNDATION ARM **PLATES** SIGNAL DUAL ARMS ID. ROAD OUT OF M.H. NO. BY STA. V/H H5 HI С H3 W3 D H4 W4 W5 2 3 8 WI W2 Y/N 2 6 LENGTH 90/270 NO. NO. EL. GROUND Y/N ELEVATION 17 3 27.5 2.5 3 33 T-5 25.73 39 46 44.5 13M127 374+69.96 0.5 25.58 21.0 74 20.0 20 2.5 61 2 T-5 25.5 0.5 26.2' V N 43 55 3 67 72.5 3 13M127 375+3.82 В 31 V Y N 13M127 3 T-5 373+95.23 25.72" 0.5 26.0' A V 15 25 38 46 21.0 2.5 43.5 3 30 В V N 78 27 2.5 65 13M127 T-5 373+92.83 26.57' 0.5 25.49' V 59 70 21.0 V 0.5 Y N В V Y N 0.5 ν V Α N В V Y N 0.5 A V Y N В V N

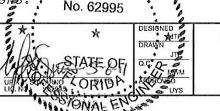
\*\*\*THIS SHEET IS FOR DESIGN PURPOSES ONLY! THE CONTRACTOR SHALL NOT USE THIS SHEET IN PLACEMENT OF THE SIGNALS AND/OR SIGNS SEE THE "MAST ARM TABULATION" SHEET FOR ACTUAL SIGNAL INSTALLATION.

NO. DESCRIPTION BY DATE

MANATEE COUNTY

CORTEZ ROAD AND 26TH STREET WEST





MAST ARM TABULATION (CALCULATION CONFIGURATION) PROJECT NO: 00193-008-06 DATE: 05-06-11 SHEET NO:

LOCATIONS         NUMBER         FA(ft)         FB(in)         FC(in)         FD(in)         FE(ft)         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)         UB(ft)         UD(in)         UE(in)         UF(deg)         UB(ft)         UD(in)         UE(in)         UF(deg)         UB(ft)         UD(in)         UE(in)         UE(in)	NUMBER OF	STRUCTURE		FIRST	T ARM		FIR	ST ARM	EXTENS	SION		SECON	ID ARM		SECO	OND ARI	1 EXTEN	ISION				POLE			
1   ID.NO.1(D3-S2   36.3   8.92   14.0   0.1793   11.7   13.36   15   0.313   0   0   0   0   0   0   0   0   0	LOCATIONS	NUMBER	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
1   MODIFIED    36   8.96   14.0   0.1793   40   13.4   19   0.375   0   0   0   0   0   0   0   0   21.5   20   22   25   0.375   0   1   10.NO.3(D3-S2   36.3   8.92   14.0   0.1793   11.7   13.36   15   0.313   0   0   0   0   0   0   0   0   22.5   21   14.85   18   0.375   0   1   10.NO.4(D7-S6   40   8.44   14.0   0.1707   40   17.4   10   0.775   0   0   0   0   0   0   0   0   0	1	ID.NO.1(D3-S2 MODIFIED)		11.000000000000000000000000000000000000	110000000000000000000000000000000000000	S. I. S.		graes a control specie			e valve ve su uniminist				0	0		0	A the fifth mesh has seen						0
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MODIFIED) 6 30 36 3.0 0.75 0.313 0.3 16.6 1.3 0.363 2.23 12.3 0.3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0	0 0
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STRUCTURE		PO	LE BASE	E CONN	ECTION	(in)		5	SHAFT AN	ID REIN	F.	li de la constantina			LUMINAIR	RE AND	LUMINA	IRE COI	VNECTION	V		
NUMBER	#Bolts	BA	BB	BC	BD	BE	BF	DA(ft)	DB(ft)	RA	RB	LA(ft)	LB(ft)	LC(in)	LD(in)	LE	LF(ft)	LG(in)	LH(in)	LJ(in)	LK(in)	LL(deg
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ID.NO.4(D7-S6 MODIFIED)	6	41	2	2	0.375	0.313	40	15	5.0	11	18	0	О	0	0	0	0	0	0	0	0	0

#### NOTES:

- Work with Index 17745.
- Design Wind Speed = 130 mph Contractor shall coordinate anchor bolt requirements
- with fabricator. Contractor shall identify Structures Numbers and submit detailed shop drawings.

#### FOUNDATION NOTES:

- 1. Design based on Borings taken and sealed by Martin E. Millburg, P.E. with Professional Service Industries, Inc.
- Soil Type = Sanu
  Soil Layer Thickness = 15 ft.
  Soil Friction Angle = 29 deg.
  Soil Weight = 42.6 pcf
  Design Water Table is at ground line. Assumptions and Values used in design:

Cardno TBE

STANAL EVE MIGUEL A. VILLEGAS LIC. NO.: 68768

**TABLE OF VARIABLES** FOR SPECIAL MAST ARM **ASSEMBLIES** 

PROJECT NO: 00193-008-06 06-17-11 SHEET NO:

MANATEE COUNTY

BY DATE

NO.

DESCRIPTION

**CORTEZ ROAD WEST AND 26TH STREET WEST** 

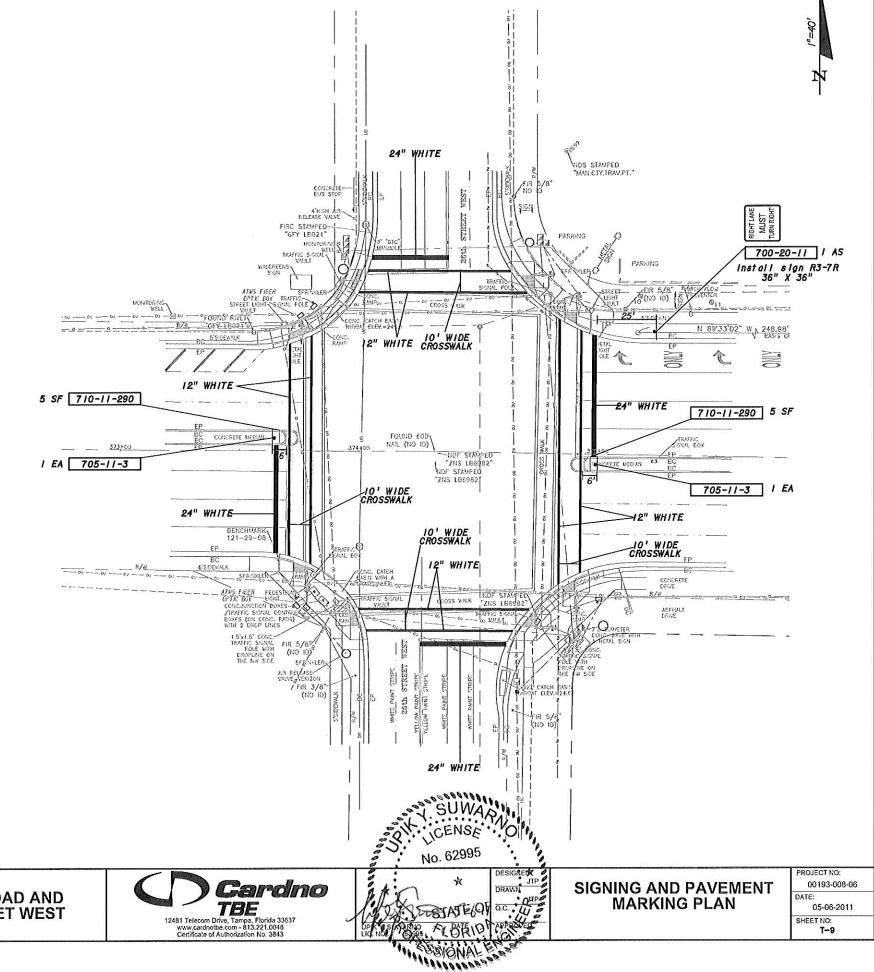
#### NOTES:

- I. THE CONTRACTOR SHALL REMOVE ALL THE EXISTING MARKINGS BEING REPLACED.

  THE REMOVAL OF ALL RETRO-REFLECTIVE PAVEMENT MARKERS ASSOCIATED WITH
  ALL PAVEMENT MARKINGS BEING REMOVED SHALL BE INCLUDED UNDER THE
  REMOVAL PAY ITEM.
- 2. NEW STOP BARS ARE TO BE PLACED 4 FEET IN ADVANCE OF THE NEAREST CROSSWALK LINE.

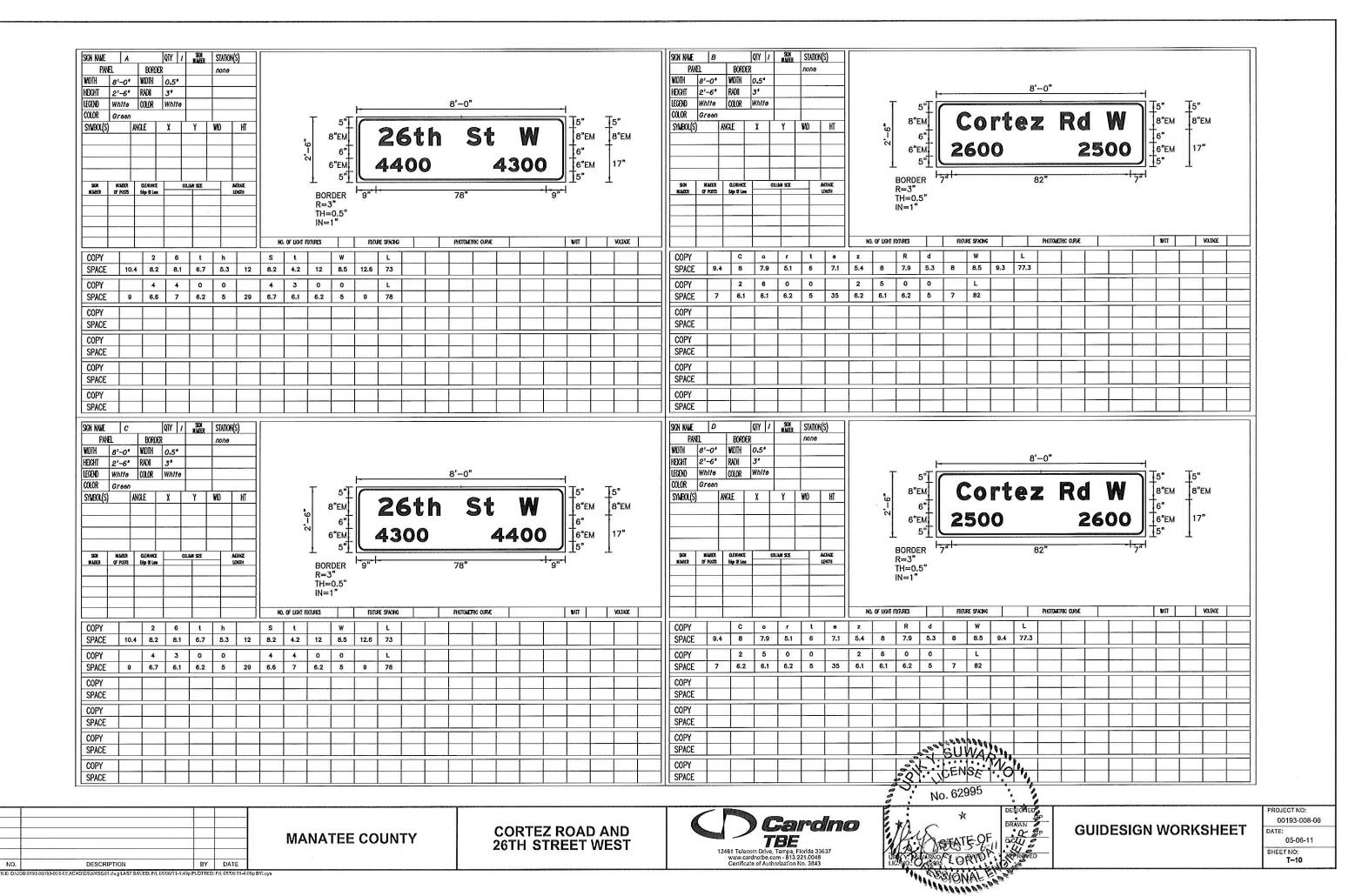
711-11-123 660 LF 711-11-125 165 LF 711-17 2,095 SF

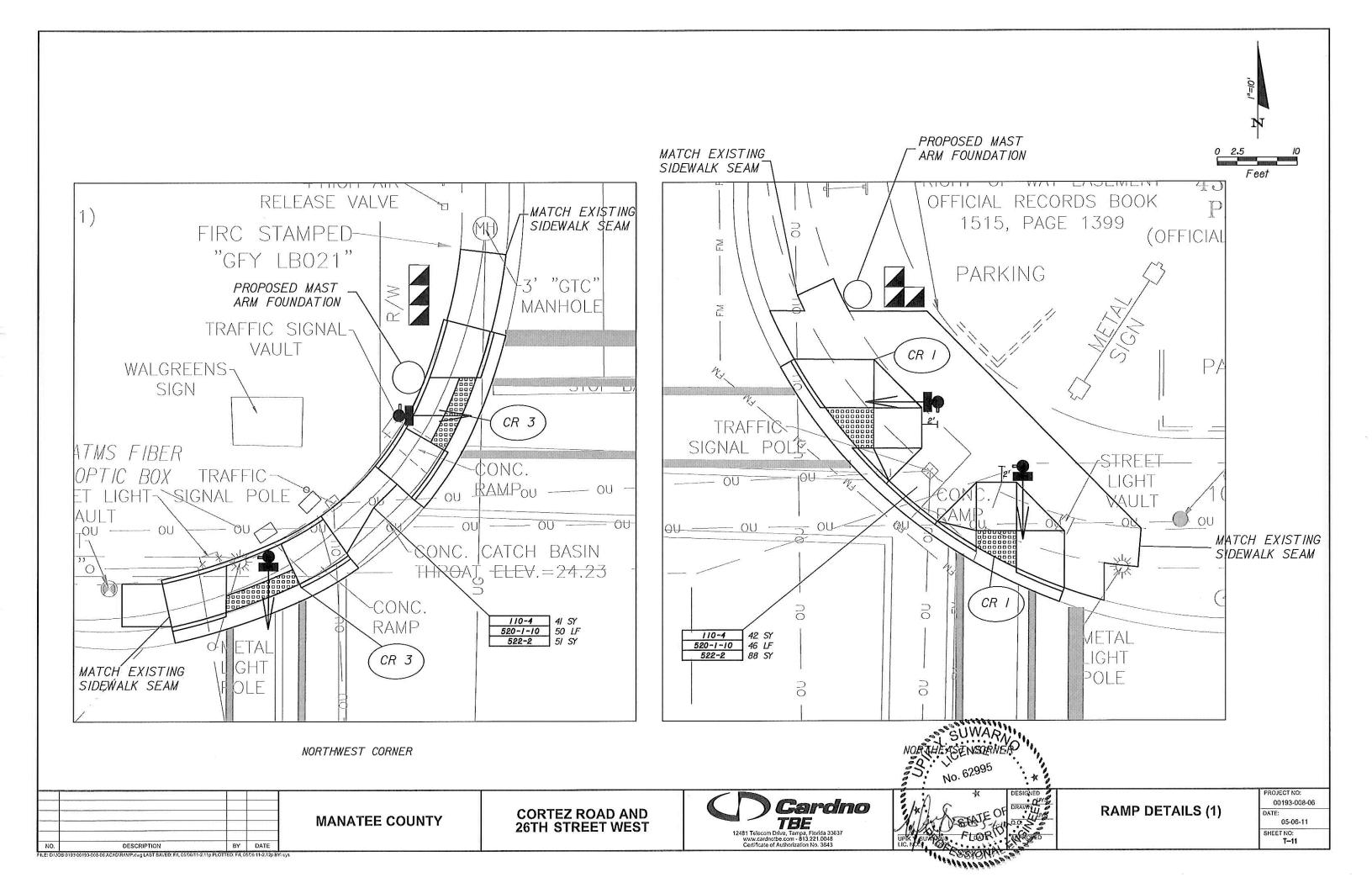
MANATEE COUNTY



NO. DESCRIPTION BY DATE

CORTEZ ROAD AND 26TH STREET WEST

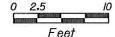


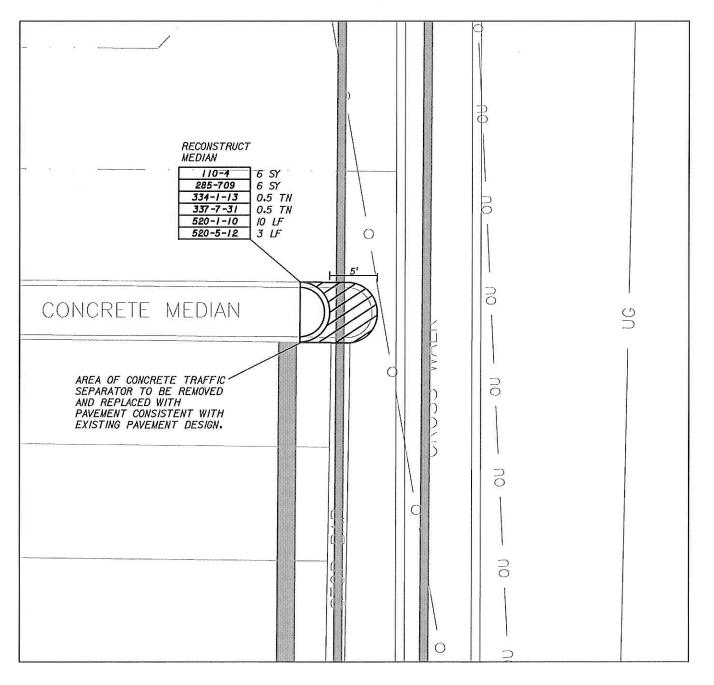


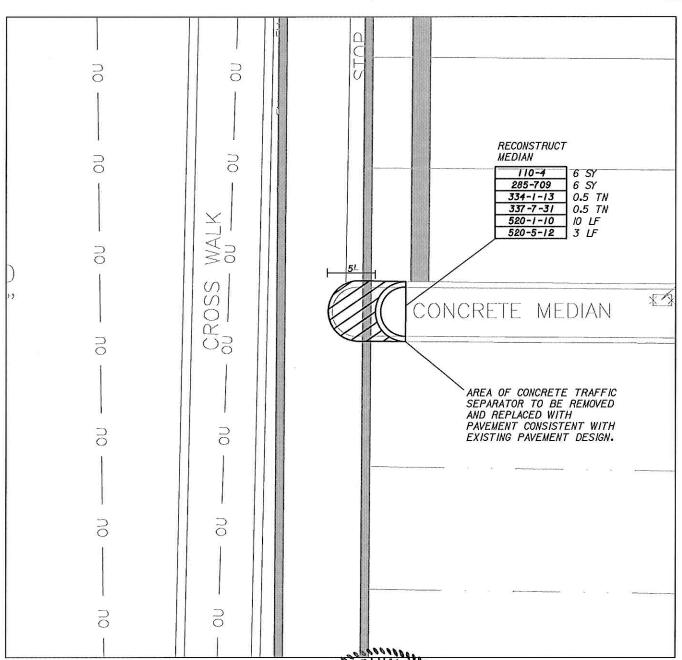
NOTE: EXISTING CONCRETE JUNCTION BOXES ARE TO REMAIN, CONTRACTOR IS TO BUILD SIDEWALK AROUND EXISTING PULL BOXES/SPLICE BOXES AND DURING INSTALLATION OR RECONSTRUCTION OF SIDEWALK AND RAMPS, MAKE SURE EXISTING PULL BOXES/SPLICE BOXES ARE FLUSH WITH TOP OF NEW SIDEWALK. MATCH EXISTING SIDEWALK SEAM 110-4 54 SY 520-1-10 39 LF 522-2 82 SY MATCH EXISTING SIDEWALK SEAM BENCHMAR 110-4 520-1-10 49 SY 45 LF 94 SY CR I  $\supset \bigcirc$ 121-29-522-2 STRAFFIC APPROXIMATE SIDEWALK SIGNAL BOX  $\bigcap_{i \in I} O_i$ \LOCATION -0U 0 --- 0U-CR / INDE STAMPE donc. catc "ZNS LB6982 BASIN WITH — OU OU GRATEOUNLE TRAFFIC SIGNA PEDES! RAME ou VAULT TRAFFIC SI DIAMETER VAULT CONC.JUNCTION BOXES BASE WITH TRAFFIC SIGNAL CONTROL MÉTAL SIGN BOXES (ON CONC. PADS) OU CONC. ¢R I WITH 2 DROP LINES /SIGNAL o o 1.5'x1.5' CONC.-*'PROPOSED MAST* DROPLINE ON SIDEWALK SEAME NW SIDE CR I FIR 5/8"/ TRAFFIC SIGNAL ARM FOUNDATION POLE WITH DROPLINE ON DONC! CATCH BASIN THE NW SIDE LOCATION PROPOSED MAST MATCH EXISTING ARM FOUNDATION SIDEWALK SEAM SOUTHWEST CORNER Cardno 00193-008-06 **RAMP DETAILS (2) CORTEZ ROAD AND** TBE 12481 Telecom Drive, Tampa, Florida 33637 www.cardnotbe.com - 813.221.0048 Certificate of Authorization No. 3843 MANATEE COUNTY 05-06-11 **26TH STREET WEST** SHEET NO: DESCRIPTION BY DATE

NOTE: FOR ADDITIONAL INFORMATION OF EXISTING ROADWAY PAVEMENT DESIGN, CONTRACTOR SHALL OBTAIN THE AS-BUILTS FOR FP ID 406755-I-52-01.









WEST LEG MEDIAN

VO.	DESCRIPTION	BY	DATE

MANATEE COUNTY

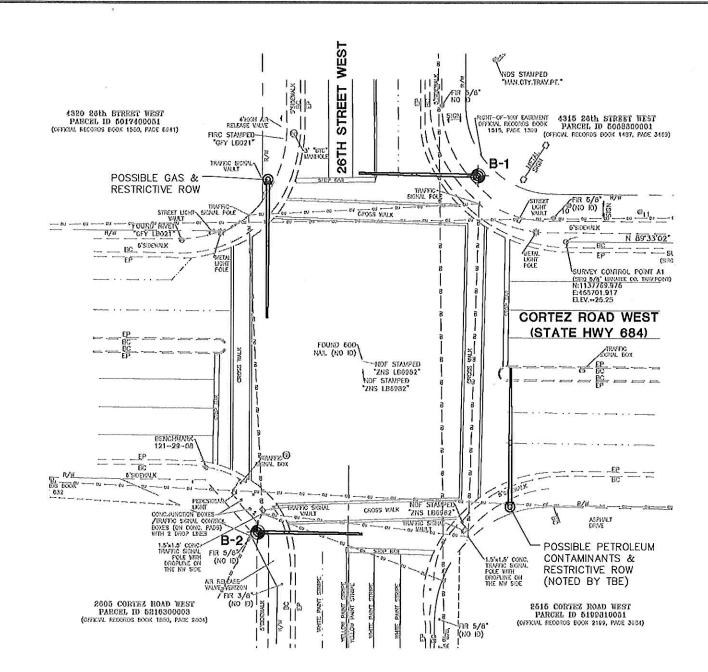
CORTEZ ROAD AND 26TH STREET WEST





MEDIAN RECONSTRUCTION DETAILS

	PROJECT NO:
N	00193-008-06
N	DATE:
	05-06-11
	SHEET NO:
	T-13



# **BORING LOCATION PLAN**





			SO	IL PA	RAN	METERS	3				
Boring No.	Approximate Depth (ft)	Soil Description	Soil Type	Average SPT-N	Unit V	Veight (pcf)	Cohesion (psf)	Friction Angle (degree)		cient of I Pressure	
					Total	Submerge			Ka	Кр	Ko
B-1	0-30	SP/SP-SM	Cohesionless	7	105	42.6		29	0.34	2.93	0.46
B-2	0-30	SP/SP-SM	Cohesionless	6	105	42.6	7	29	0.34	2.91	0.46

# B-2B-1HAND HAND **AUGER AUGER** <u>¥</u> 3 6 8 10 9 (1)8=20 14 13 20 2 25 -200=5 NMC=29 30

### LEGEND

Light to dark gray, greenish gray, brown fine SAND to slightly silty fine SAND (SP/SP-SM)

Unified Soil Classification System SP (ASTM D 2487) group symbol as determined by visual review

Seasonal high groundwater level

N SPT N-value in blows/foot

-200 Fines passing No. 200 sieve (%)

NMC Natural Moisture Content (%)

oc Organic Content (%)

A Trace roots, organics

Approximate SPT boring location

NOTE: Site plan provided by Cardno TBE

## SOIL PROFILES



DRAWN	DJG
CHECKED	JH
APPROVED	МЕМ
SCALE	
	NOTED

GEOTECHNICAL SERVICES
PROPOSED MAST ARM SIGNAL POLES
CORTEZ ROAD WEST & 26TH STREET WEST
MANATEE COUNTY, FLORIDA

PSI Information
To Build On
Engineering Consulting Testing

SEPT 10 | PROJ. NO. 0775771 | SHEET T-14