**CONSTRUCTION PLANS FOR** 

# SW BAYSHORE BOULEVARD

AT SW BAYSHORE BOULEVARD AND SW LAKEHURST DRIVE

## SIGNALIZATION PLANS



INDEX OF SIGNALIZATION PLANS

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SHEET I\* TOPOGRAPHIC SURVEY

\* THIS SHEET IS INCLUDED IN THE INDEX OF SIGNALIZATION PLANS ONLY TO INDICATE THAT IT IS PART OF THE SIGNALIZATION PLANS. THIS SHEET IS CONTAINED IN A SEPARATE DIGITALLY SIGNED AND SEALED DOCUMENT

GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD PLANS DATED FY 2022-23, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JULY 2022, AS AMENDED BY CONTRACT DOCUMENTS.

PLANS PREPARED BY:



2041 Vista Parkway, Suite 101 West Palm Beach, FL 33411 Phone: (561) 253-9550 Fax: (561) 253-9551

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

SIGNALIZATION PLANS

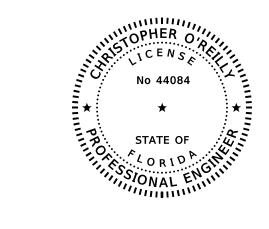
ENGINEER OF RECORD: CHRISTOPHER N. O'REILLY, P.E.

P.E. NO. 44084

FISCAL	SHEET
YEAR	NO.
23	T-/

CITY OF PORT ST. LUCIE PROJECT MANAGER: PAUL JOHNSON

PROJECT LOCATION



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

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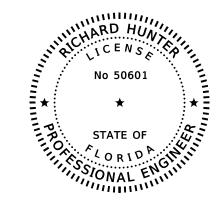
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THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004, F.A.C.

## SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	TABULATION OF QUANTITIES
T-4, T-5	GENERAL NOTES
T-6	SIGNALIZATION PLAN
T-7	SIGNING AND PAVEMENT MARKING PLAN
T-8	GUIDE SIGN WORKSHEET
T-9	MAST ARM TABULATION



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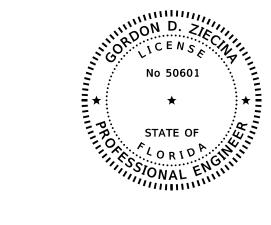
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## SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-11	STANDARD MAST ARM ASSEMBLIES DATA TABLE



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## SIGNALIZATION PLANS

ST. LUCIE

SHEET NO. SHEET DESCRIPTION

T-2 SIGNATURE SHEET T - 10SPLICING DIAGRAM

REVISIONS DESCRIPTION DESCRIPTION DATE

American Consulting Engineers of Florida, LLC 2041 Vista Parkway, Suite 101 West Palm Beach, Florida 33411 Phone: (561) 253-9550 Fax: (561) 253-9551 Christopher N. O'Reilly, P.E., No. 44084



CITY OF PORT ST. LUCIE 121 S.W. PORT ST. LUCIE BLVD.

PORT ST. LUCIE, FL 34984 ROAD COUNTY SIGNATURE SHEET

SHEET NO.

## TABULATION OF QUANTITIES

PAY	DECCRIPTION	11017		SHEET	NUMBER	RS	T01 TH	IS	GRA TO	
ITEM NO.	DESCRIPTION	UNIT	T	- 6	T	- 7	SHE	ET I	101	AL
110.			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINA
01-1	MOBILIZATION	LS					1		1	
10-4-10	REMOVAL OF EXISTING CONCRETE	5Y			138	3	138	/	138	
520 - 1 - 10	CONCRETE CURB & GUTTER, TYPE F	SY			298		298		298	
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY			113		113		113	
527 - 2	DETECTABLE WARNINGS	SF			180	1	180		180	
530 - 2 - 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	251				251	,——	251	
530-2-11	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	239				239		231	
632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	233				233	,——	2 2 3 9	
633 - 1 - 121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF	306				306		306	
633-1-121 633-2-31	FIBER OFFIC CABLE, FAI, UNDERGROUND, 2-12 FIBERS	EA	24				24		24	
		EA	24				24	_	24	
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE						2	<u> </u>		
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	2				_	1	12	
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA	12				12	,——	12	
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA	1				1		1	
633-6	FIBER OPTIC CABLE LOCATOR	DA	60			1	60		60	
633-8-1	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL	LF.	50				50		50	
635 - 2 - 11	PULL & SPLICE BOX, F&I, 17" x 30" x 12" COVER SIZE	EA	25				25		25	
635 - 2 - 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	3				3		3	
639 - 1 - 122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1				1	,	10	
639 - 2 - 1 641 - 2 - 12	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF EA	10				10	,———	10	
646-1-11	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE ALUMINUM SIGNALS POLE, PEDESTAL	EA	8				1 0	,——	1	
649-21-11	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 30'	EA	1				1 1	,———	1	
649-21-3	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 40'	EA	1				1	/	1	
649-21-10	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 60'	EA	2				2	,		
650-1-24	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE W/ALUM TOP, 3 SECTION, 1 WAY	AS	8				8		8	
650 - 1 - 26	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL POLYCARBONATE W/ALUM TOP, 4 SECTION, 1 WAY	AS	2				2		2	
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	8				8		8	
660-4-11	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA	1				1		1	
660-4-12	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA	4				4		4	
665 - 1 - 11 670 - 5 - 110	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	8				8	,	8	
670 - 5 - 110 682 - 1 - 113	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA   ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	AS EA	1				1	,——	1	
684-1-115	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	1				1	,——	1	
684-5-1	MEDIA CONVERTER, FURNISH & INSTALL	EA	1				1	,	1	
685 - 1 - 13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA	1				1	+	1	
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS			2	?	2		2	
700-1-60	SINGLE POST SIGN, REMOVE	AS			2	2	2	·	2	
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	2				2	<u> </u>	2	
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL OVERHEAD MOUNT, 12 TO 18 SF	EA	4				4		4	
706 - 3	RAISED PAVEMENT MARKER, TYPE B	EA			5:	!	5 1		51	
711-11-123	THERMODIACTIC CTANDARD WHITE COLID 12" FOR CROCCWALK AND ROUNDARDIT	LF			F 2/		F 20		F36	
	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF LF			526 513		526 513		526 513	
	THERMOPLASTIC, STANDARD, WHITE, ARROWS	EA			313		6		6	
711-11-170	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES WHITE, SOLID, 6"	GM			0.408		0.408		0.408	
711-15-131	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM			0.152		0.152		0.152	
711-15-201	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, YELLOW, SOLID, 6"	GM			0.293		0.293		0.293	
711-17-1	THERMOPLASTIC, REMOVE EXISTING THERMOPLASTIC PAVEMENT MARKINGS- SURFACE TO REMAIN	SF			156		1561		1561	
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		I	1		1	1	I	1 '		

PAY ITEM FOOT NOTES:

649-21-1: INCLUDES THE COST FOR ALL MAST ARMS TO BE 12 SIDED 649-21-3: INCLUDES THE COST FOR ALL MAST ARMS TO BE 12 SIDED

649-21-10: INCLUDES THE COST FOR ALL MAST ARMS TO BE 12 SIDED

		REVI	SIONS			Amorioon
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CITY OF PORT ST. LUCIE 121 S.W. PORT ST. LUCIE BLVD. PORT ST. LUCIE, FL 34984

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ROAD COUNTY SW BAYSHORE BLVD ST. LUCIE TABULATION OF QUANTITIES

SHEET NO.

#### SIGNAL OPERATION AND GENARL ITEM NOTES:

- THE CONTRACTOR SHALL NOTIFY THE CITY OF PORT ST. LUCIE PUBLIC WORKS DEPT. NO LATER THAN TWO (2) FULL BUSINESS DAYS IN ADVANCE OF ANY WORK TO BE CARRIED OUT AT ANY SIGNAL. 772-344-4360
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A #8 KEY FROM THE TRAFFIC OPERATIONS COMPOUND AT 821 DWYER AVE TO ACCESS ANY OPERATIONAL TRAFFIC CABINET.
- 3. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND ALL EXISTING UTILITIES, INCLUDING OVERHEAD POWER LINES.
- 4. FOR PROGRAMED FLASH OPERATION, THE MAJOR STREET IS TO FLASH YELLOW AND THE MINOR STREET IS TO FLASH RED
- 5. THE CONTROLLER ASSEMBLY SHALL BE A NAZTEC TS2 TYPE 1 CABINET WITH A #8 KEY. THE TOP OF THE CONTROLLER CABINET FOUNDATION SHALL BE 12"ABOVE THE SIDEWALK ELEVATION TO PREVENT FLOODING. IN THE EVENT THERE IS NO SIDEWALK, THE TOP OF THE CONTROLLER CABINET FOUNDATION SHALL BE 12"ABOVE THE EDGE OF PAVEMENT.
- 6. THE APPROPRIATE UTILITY COMPANY SHALL BE NOTIFIED BY THE CONTRACTOR FORTY-EIGHT (48) HOURS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT.
- LOCATIONS OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO EXCAVATION.
- CONTACT SUNSHINE ONE CALL OF FLORIDA AT 811 OR SUNSHINE811.COM AT LEAST TWO (2) FULL BUSINESS DAYS BEFORE DIGGING.
- A DISCONNECT SWITCH IS TO BE MOUNTED ON A SEPARATE CONCRETE POLE ON CONTROLLER CABINET CORNER.
- 10. CONTROLLER BASE SHALL HAVE TWO (2) CONDUITS FOR COMMUNICATION CABLE IN ADDITION TO THE TWO (2) SPARES THAT ARE REQUIRED. THEY SHALL BE TERMINATED INTO THE COMMUNICATION PULL BOX.
- 11. THE CONTRACTOR SHALL COORDINATE WITH FLORIDA POWER AND LIGHT TO DETERMINE ELECTRICAL SERVICE FEED LOCATION.
- 12. THE CONTROLLER CABINET SHALL BE ORIENTED WITH THE DOOR OPENING AWAY FROM THE ROADWAY, SO THAT THE TECHNICIAN CAN VIEW THE ENTIRE INTERSECTION WHILE WORKING IN THE CABINET.
- A CONCRETE TECHNICIAN PAD SHALL BE CONSTRUCTED ADJACENT TO THE CONTROLLER CABINET AT SIDEWALK ELEVATION WITH A 6" EYEBOLT PROTRUDING FROM THE CONCRETE AT THE HINGE SIDE OF THE CABINET TO SECURE A GENERATOR. IN THE ABSENCE OF SIDEWALK, THE CONCRETE TECHNICIAN PAD SHALL BE AT EDGE OF PAVEMENT ELEVATION.
- 14. TOP OF MAST ARM FOUNDATIONS WITHIN THE SIDEWALKS SHALL MATCH FINISH CONTOUR AND ELEVATION OF SIDEWALKS WITHOUT JOINTS. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER BOLT PROJECTION ABOVE FINISHED SIDEWALK GRADE.
- 15. THE CONTROLLER SHALL OPERATE AN APPROVED FLORIDA D.O.T. SIGNAL OPERATING PLAN.
- 16. SIGNAL TIMINGS DISPLAYED FOR LOCAL OPERATION ARE SUGGESTED TIMINGS BASED ON THE MPO AREA VOLUME COUNTS ACTUAL TIMING AND COORDINATION PLANS ARE TO BE DETERMINED BY THE CITY OF PORT ST. LUCIE PROFESSIONAL ENGINEER'S REPRESENTATIVE.
- 17. FINAL LOCATION OF MAST ARMS TO BE FIELD DETERMINED AND APPROVED BY THE CITY AND ENGINEER OF RECORD.
- 18. OPTICAL VEHICLE DETECTORS SHALL BE ITERIS EDGE II, WITH ITERIS EDGE CONNECT AND ITERIS TS2-IM MODULE, AND SHALL BE CAPABLE OF MULTI ZONE DETECTION. DETECTORS SHALL BE ITERIS RZ4-WDR AND SHALL BE MOUNTED ABOVE THE MAST ARM USING ASTRO BRACKET HARDWARE AT A HEIGHT CAPABLE OF THE REQUIRED DETECTION AND AS RECOMMENDED BY THE SYSTEM MANUFACTURER. THE DETECTION SYSTEM SHALL BE EQUIPPED WITH AN LCD MONITOR FOR CONFIGURATION OF THE DETECTOR LOOPS. SHOP DRAWINGS SHALL BE SUBMITTED TO THE CITY OF PORT ST. LUCIE FOR APPROVAL AND MUST COMPLY WITH THE CITY'S VIDEO SYSTEM. ALL VIDEO POWER CABLES, PROCESSORS, AND EQUIPMENT SHALL BE PROVIDED FOR A COMPLETE AND OPERATIONAL VIDEO DETECTION SYSTEM. MANUFACTURERS SHALL BE PRESENT AT TURN ON FOR PROGRAMMING AND SETUP.
- 19. ALL ILLUMINATED STREET NAME SIGNS SHALL BE RIGIDLY MOUNTED AND WIRED TO A SINGLE PHOTO CELL LOCATED IN THE CONTROLLER CABINET, LETTERING SIZE AND FHWA FONT TYPE SHALL MEET CURRENT MUTCD AND FDOT STANDARDS.
- 20. ALL SIGNALS SHALL BE EQUIPPED WITH AN UNINTERRUPTABLE POWER SUPPLY (UPS). AN ALPHA NOVUS FXM 2000 IN A NOVUS FORTEX FX 200 CABINET MOUNTED ON A CONCRETE PAD ALONGSIDE THE CONTROLLER FOUNDATION AND HAVE A NETWORK INTERFACE CARD INSTALLED AND CONFIGURED.

- 21. FIBER OPTIC ETHERNET SWITCH SHALL BE CISCO INDUSTRIAL ETHERNET 4000 SERIES 20 PORTS MANAGED-(PART # IE-4000-8GT8GP4G-E)/CISCO AC-DC POWER MODULE FOR POE SOLUTION (PART # PWR-IE170W-PC-AC) AND SHALL BE FULLY CONFIGURED FOR OPERATION, INCLUDING ASSIGNED IP ADDRESS DETERMINED BY THE CITY OF PORT ST. LUCIE TRAFFIC DIVISION. CONTRACTOR SHALL CONTACT TRAFFIC DIVISION TO DETERMINE WHICH SWITCH WILL BE APPROPRIATE FOR INSTALL.
- 22. TRAFFIC MONITORING CAMERA SHALL BE BOSCH AUTODOME IP STARLIGHT 7000 HD PAN TILT ZOOM, SHALL HAVE SURGE & LIGHTING PROTECTION, AND SHALL BE MOUNTED WITH MAST-O-BRACKET AND NEOPRENE WRAP. THE CITY OF PORT ST. LUCIE TRAFFIC DIVISION SHALL DETERMINE THE MOUNTING LOCATION.
- 23. ALL PATCH CABLES, SPLITTERS AND MISC. MATERIALS REQUIRED FOR THE INSTALLATION OF TRAFFIC MONITORING EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR. INSTALLED PATCH CABLE SHALL MATCH EXISTING PATCH CABLE DIMENSIONS AND TYPE. ANY DEVIATIONS SHALL BE APPROVED BY TRAFFIC
- 24. SIGNAL CONDUCTOR SHALL PASS THROUGH HOLE IN PELCO/ASTRO MOUNTING BRACKET, INTO SIGNAL MOUNTING PIPE AND INTO SIGNAL. SO CABLE IS NOT EXPOSED TO THE ELEMENTS.
- 25. ALL SIGNAL HEADS SHALL HAVE BACK PLATES INSTALLED USING ALL NECESSARY HARDWARE ACCORDING TO LATEST FDOT STANDARDS.
- 26. CONTRACTOR SHALL NOT USE WIRE NUTS ANYWHERE WITHIN THE CONTROLLER CABINET, STREET LIGHT CIRCUIT OR SIGNAL CIRCUIT. APPROVED CONNECTIONS ARE TERMINAL STRIPS, WATER TIGHT BUTT SPLICES (RUBBER TAPE ELECTRICAL TAPE, SCOTCH COTE) AND SPLIT BOLTS.
- 27. ALL SIGNAL UPRIGHT HAND HOLES SHALL HAVE TERMINAL STRIPS INSTALLED FOR THE TERMINATION OF SIGNAL CONDUCTOR FROM THE CONTROLLER CABINET TO THE SIGNAL HEADS/PEDESTRIAN SIGNALS.
- 28. ALL GROUND WIRING WITHIN PULL BOXES REQUIRING TERMINATION TO GROUND ROD SHALL BE ATTACHED USING CAD WELD IGNITORS.
- 29. SIGNAL CONDUCTOR WITHIN CONTROLLER CABINET SHALL COMPLETELY ENCIRCLE INSIDE OF CABINET BEFORE TERMINATION TO ALLOW SLACK FOR KNOCK DOWNS.
- 30. ALL SPARE SIGNAL CONDUCTOR WITHIN CONTROLLER CABINET SHALL BE TERMINATED DIRECTLY TO GROUND/NEUTRAL BARS.
- 31. ALL SIGNAL CONDUCTOR WITHIN THE UPRIGHT HAND HOLE AND CONTROLLER CABINET SHALL BE PROPERLY LABELED USING FLAG TIE WRAPS.
- 32. ALL DETECTION CAMERA PELCO BRACKETS SHALL BE DRILLED AND TAPPED FOR 1/4-20 SET SCREW AFTER INSTALLATION TO PREVENT CAMERA FROM LAYING OVER IN HIGH WINDS.
- 33. WEEP HOLES SHALL BE DRILLED IN ALL TRAFFIC SIGNAL HEADS AND PEDESTRIAN SIGNALS.
- 34. ANTI SEIZE SHALL BE USED ON ALL MOUNTING HARDWARE FOR SIGNAL/CAMERA BRACKETS.
- 35. THE FOLLOWING SHALL BE USED FOR FIBER OPTIC INTERCONNECT:
  - PULL BOX (FIBER OPTIC)- TIER 15 (MIN.)
    - BOX: QUAZITE-PG1730BB18- 17"X30"X18" DEEP, COVER: QUAZITE-PG1730CA00
    - BOX: SYNERTECH-S1730B18FA- 17"X30"X18" DEEP, COVER: SYNERTECH-S1730HBBOA
  - SPLICE BOX (FIBER OPTIC)- TIER 15 (MIN.)
    - BOX: QUAZITE-PG3048BB- 30"X48"X36" DEEP COVER: QUAZITE-PG3048HC00
    - BOX: OLDCASTLE-3048-36- 30"X48"36" DEEP COVER- OLDCASTLE-UNI-HALF 3048
  - SPLICE CLOSURES (FIBER OPTIC): TYCO FOSC-450-C6-6-NT-0-C6V
    - ENCLOSURE SPLICE TRAY: FOSC-ACC-C-TRAY-24
    - BASKET: FOSC-ACC-C-BASKET
  - FIBER OPTIC CABLE
    - CORNING/SEICOR-096EU4-T4701D20- 96 FIBER ALTOS GEL-FREE CABLE NON-ARMORED SMFE 1.4/0.4/0.3 DB/KM 12F/TUBE PRINT IN FT.
    - CORNING/SIECOR-012EU4-T4701D20- 12 FIBER ALTOS GEL-GREE CABLE NON-ARMORED SMFE 1.4/0.4/0.3 DB/KM 12F/TUBE PRINT IN FT.

REVISIONS American DESCRIPTION DESCRIPTION DATE BY DATE BY Consulting Engineers of Florida, LLC 2041 Vista Parkway, Suite 101 West Palm Beach, Florida 33411 Phone: (561) 253-9550 Fax: (561) 253-9551 Christopher N. O'Reilly, P.E., No. 44084

CITY OF PORT ST. LUCIE 121 S.W. PORT ST. LUCIE BLVD. PORT ST. LUCIE, FL 34984

ROAD COUNTY GENERAL NOTES

SHEET NO.

T-4

ST. LUCIE

#### CCTV ITEMS

• VIDEO DATA SERIAL CONVERTER (F&I) • COPPER DATA PATCH CABLES 5 (F&I) • CAMERA ASSEMBLY, BOSCH AUTODOME IP STARLIGHT 7000 HD, SMOKED	1 EA 1 EA
CAMERA ASSEMBLY, BOSCH AUTODOME IF STARLIGHT YOUR HD, SMOKED LENS W/ COMPOSITE CABLE & GASKET (F&I)  CCTV MOUNT, MASTOBRAC & NEOPRENE WRAP (F&I)  VIDEO COAX PATCH CABLES W/ SPLITTER (F&I)  CCTV MAINTENANCE UNIT (SURGE ARRESTOR PANEL FOR	1 EA 1 EA 1 EA
POWER, DATA, VIDEO W/ INTERFACE) (F&I)  • MULTI-VOLTAGE POWER SUPPLY MODULE (F&I)	1 EA 1 EA

#### **ELECTRONICS**

• CISCO INDUSTRIAL 4000 8GT8GP4G-E FO ETHERNET SWITCH 1000BASEF, 20PT-20CU POE (F&I) 1 EA

## FIBER OPTIC CABLE OSP

FOR CITYWIDE LOCATE SYSTEM (F&I)  • FO CABLE 96F, SM, LT, UG (F&I)  • DM ROW DELINEATOR MARKER POST ORANGE 6' (F&I)  1 E	
• DM ROW DELINEATOR MARKER POST ORANGE 6' (F&I)	
, ,	ĒΑ
• FO CABLE 12F, SM, DROP CABLE (F&I)	
• FO CONNECTION (INSTALL) SPLICE 1 E	ĒΑ
• FO CONNECTION (INSTALL) TERMINATION 1 E	ΞA
• FO SPLICE-TERM. CABINET, 12F, WALL/RACK (F&I)	ĒΑ
• FO JUMPER, DUPLEX ST-ST, SM, 10' (F&I)	ĒΑ
• FO JUMPER, DUPLEX SC-ST, SM, 10' (F&I)	ĒΑ
• FO JUMPER, DUPLEX LC-ST, SM, 10' (F&I)	ΞA
• FO SPLICE CLOSURE 12F, AERIAL/UG (F&I) 1 E	ĒΑ
• FO SPLICE CLOSURE 96F, AERIAL/UG (F&I)	ĒΑ
• FO PULLBOX (F&I)	ĒΑ
• FO SPLICEBOX (F&I)	ĒΑ

37. THE CITY SHALL BE SUPPLIED WITH ONE (1) HONDA EU 30001 PORTABLE INVERTOR GENERATOR (OR EQUIVALENT) UPON COMPLETION OF THE TRAFFIC SIGNAL. IT SHALL BE EQUIPPED WITH ELECTRONIC START AND WHEELS.

ALL UTILITY OWNERS, AGENCY AND CONTACTS FOR OTHER REQUIRED ACTIONS WITHIN THE PROJECT LIMITS SHALL BE LISTED WITH CONTACT PERSON AND PHONE NUMBER AS FOLLOWS:

CONTACT PERSON PHONE NUMBER UTILITY LUKE FOLKERTS AT&T DISTRIBUTION 561-683-2729 HOLLY COOMBS CITY GAS COMPANY OF FLORIDA 321-638-3419 CITY OF PORT ST. LUCIE - TRAFFIC 772-871-5182 PAUL JOHNSON JOHN EASON CITY OF PORT ST. LUCIE 772-871-5063 TONY SPRINGSTEEL COMCAST 772-321-3425 FLORIDA POWER & LIGHT- ST. LUCIE ROB MORRIS 772-223-4215

		REVI	SIONS		
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
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6/27/2022

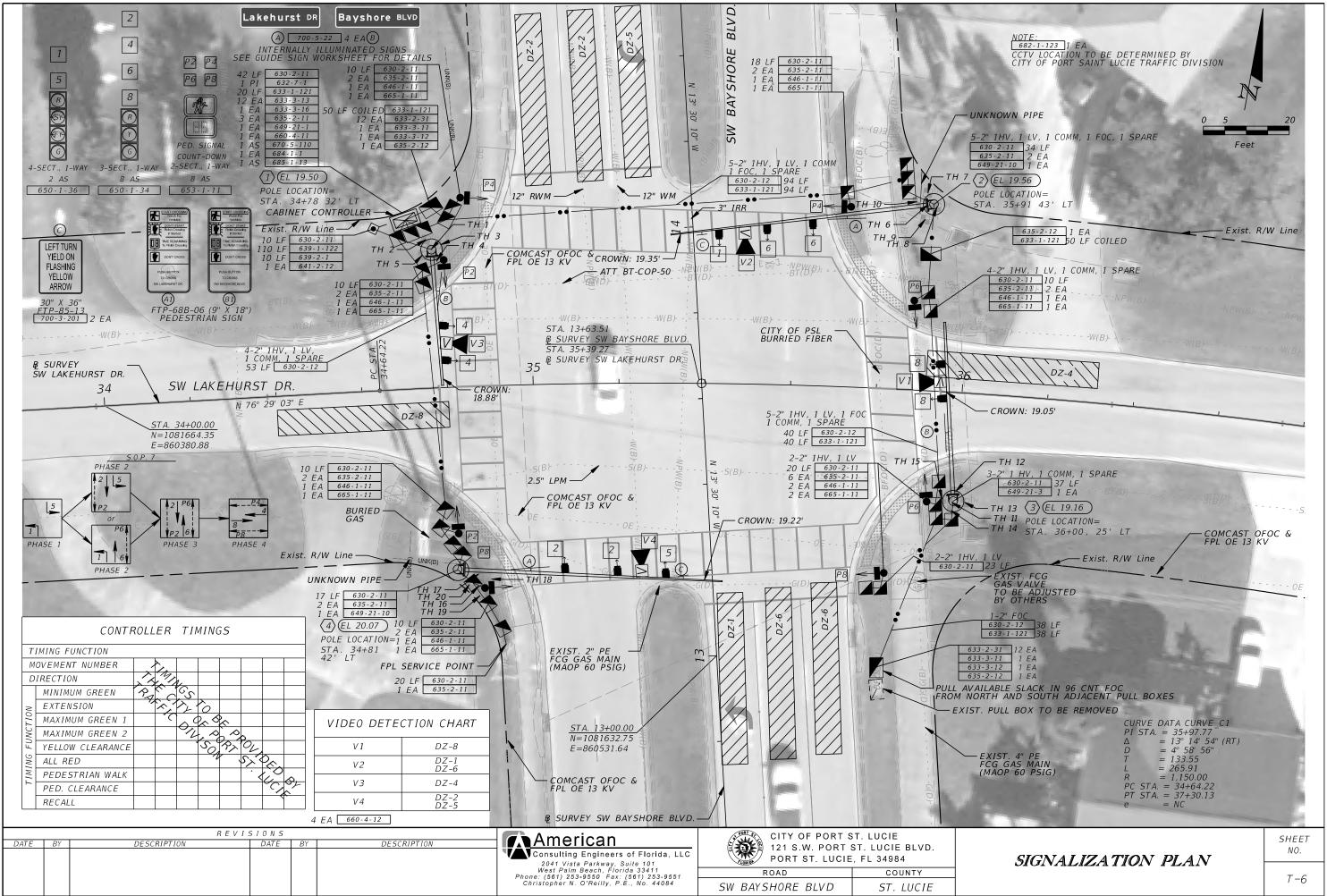
CITY OF PORT ST. LUCIE 121 S.W. PORT ST. LUCIE BLVD.

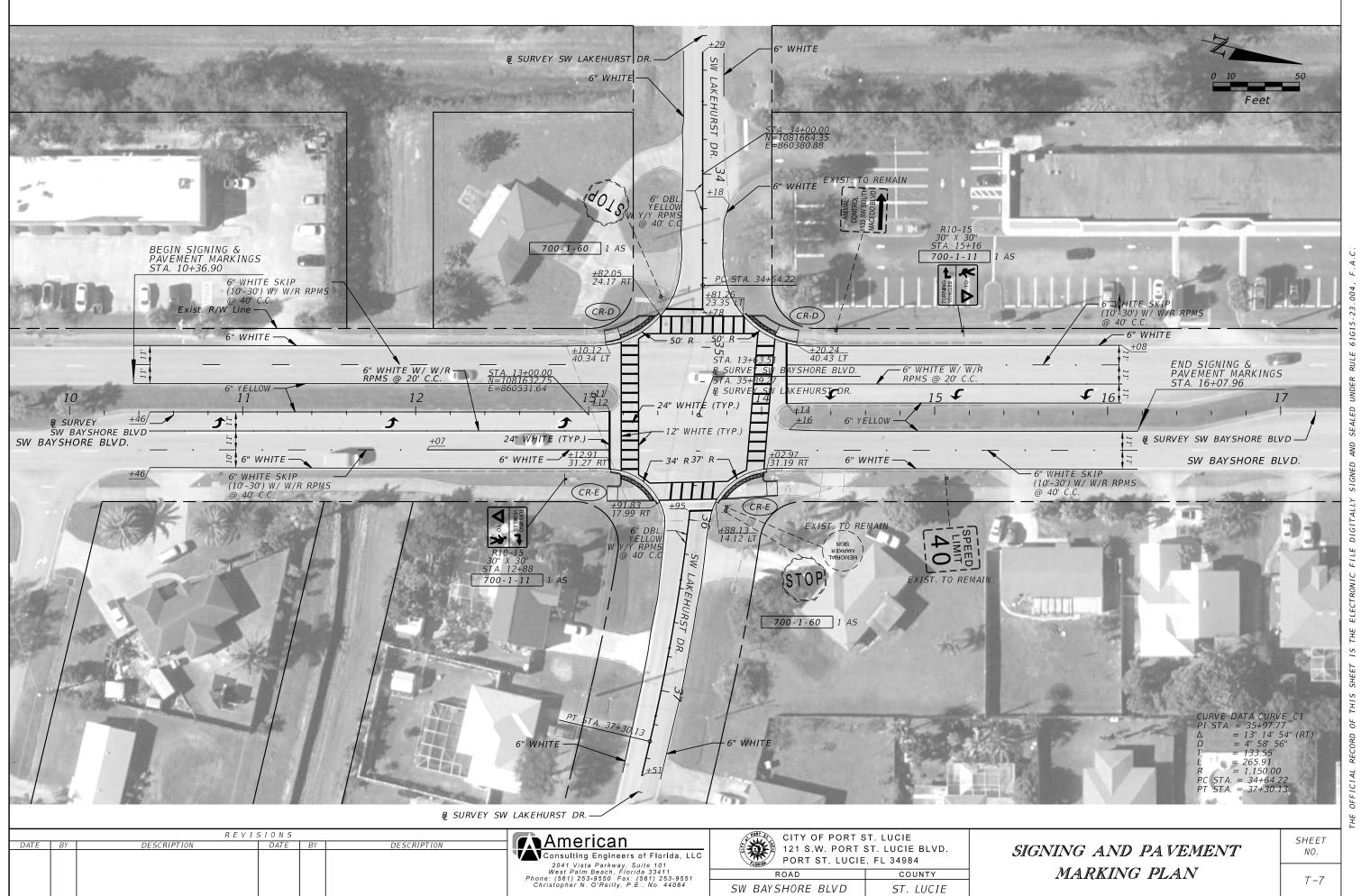
PORT ST. LUCIE, FL 34984 ROAD COUNTY GENERAL NOTES

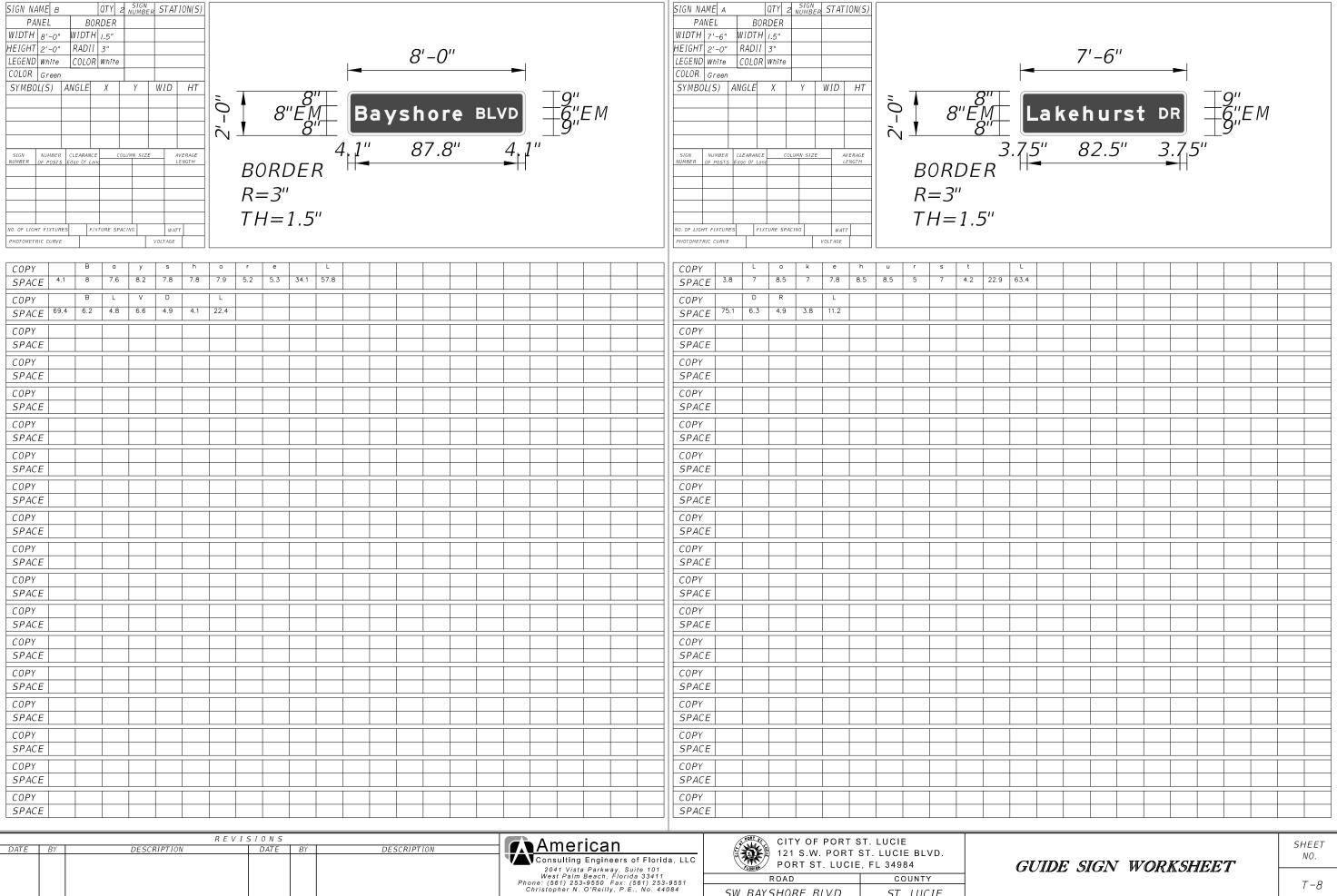
SHEET NO.

T-5

SW BAYSHORE BLVD ST. LUCIE 5:11:22 PM c:\pw\_work\american-pw-0I\d06II87I\GNNTSG0I.dgn



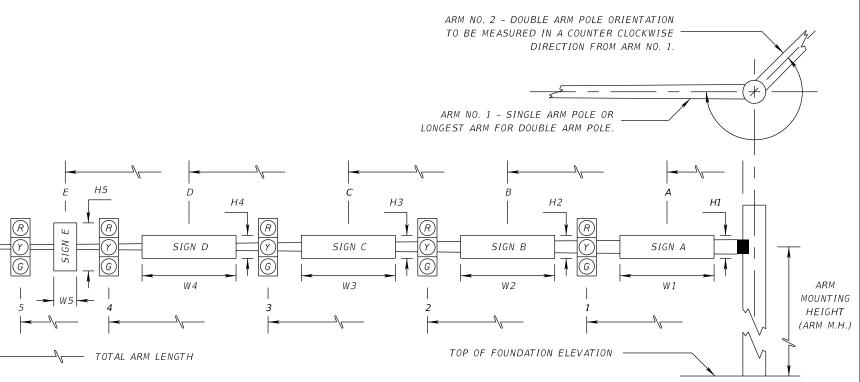




5:11:46 PM c:\pw\_work\american-pw-0|\d06||87|\GSWKSG0|.dgn

SW BAYSHORE BLVD

ST. LUCIE



\* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

SIGNAL DATA								SIGN DATA						-															
ID NO	SHEET NO.	LOCATION	GROUND ELEVATION	TOP OF FOUNDATION	RDWY ARM NO.	CROWN	SIGNAL V/H	BACK PLATES	PED. SIGNAL		DI	STAN	CE FR	OM P	OLE		TOTAL ARM	ARM	ANGLE BETWEEN		DISTA	ANCE FR	OM POL	E/HEIG	HT & WI	DTH OF	SIGN		PAINT COLOR
ID NO	NO.	BY STA.	AT FOUNDAT I ON	ELEVATION	NO.	ELEV.	V/H	Y/N	Y/N	1 *	2	*	3	*	4 *	V	LENGTH	М.Н.	DUAL ARMS 90/270	Α	H1	W 1	В	H2	W2	С	Н3	W3	
1	T-6	34+78	19.00	19.50		1 18.88	3 V	Υ	N	16.5	3 24.5	5 3	3			20.5	30			8	2.0	8.0							GALVANIZED
2	T-6	35+91	19.06	19.56		1 19.35	5 V	Υ	N	27	3 37.5	5 3	3 49	4		43	60			19	2.0	7.5	53	3.0	2.5				GALVANIZED
3	T-6	36+00	18.66	19.16		1 19.05	5 V	Υ	N	22.5	3 30.5	5 3	3			26.5	40			14.5	2.0	8.0							GALVANIZED
4	T-6	34+81	19.57	20.07		1 19.22	2 V	Υ	N	23.5	3 30	6 3	3 47	4		41.5	60			15.5	2.0	7.5	51	3.0	2.5				GALVANIZED

		REV	SIONS			Amorioon
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	American
						Consulting Engineers of Florida, LL 2041 Vista Parkway, Suite 101 West Palm Beach, Florida 33411 Phone: (561) 253-9550 Fax: (561) 253-9551 Christopher N. O'Reilly, P.E., No. 44084

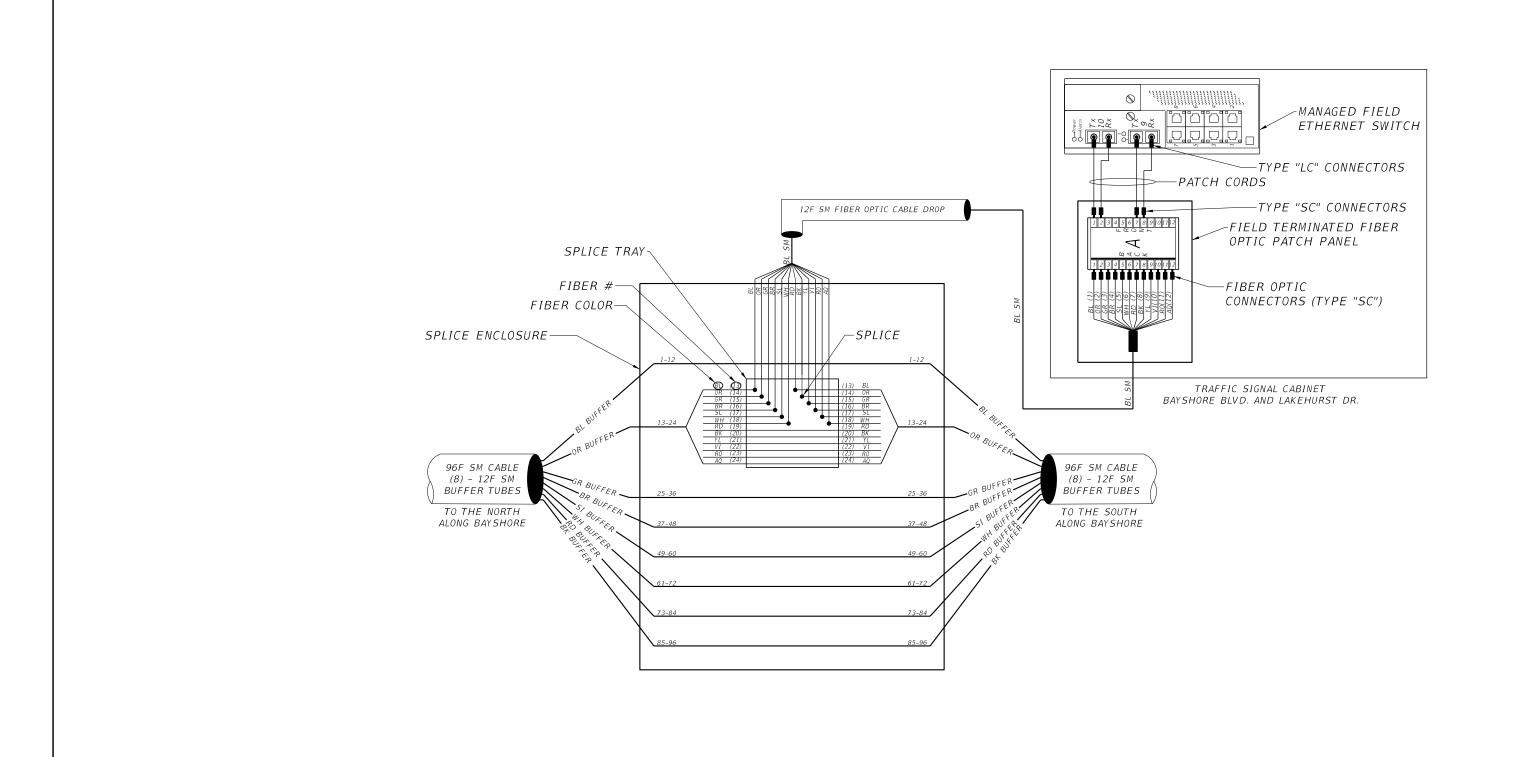


CITY OF PORT ST. LUCIE 121 S.W. PORT ST. LUCIE BLVD. PORT ST. LUCIE, FL 34984

ROAD COUNTY SW BAYSHORE BLVD ST. LUCIE STANDARD MAST ARM TABULA TION

SHEET NO.

T-9



R E V I S I O N S

DATE BY DESCRIPTION DATE BY DESCRIPTION

American
Consulting Engineers of Florida, LLC
2818 Cypress Ridge Blvd, Suite 200
Wesley Chapel, Florida 33544
Phone: (813) 435-2600 Fax: (813) 435-2601
Gordon D. Ziecina, P.E. No. 33770

C 1

CITY OF PORT ST. LUCIE 121 S.W. PORT ST. LUCIE BLVD. PORT ST. LUCIE, FL 34984

ROAD COUNTY

SHORE BLVD ST. LUCIE

SPLICING DIAGRAM

SHEET NO.

T-10

SW BAYSHORE BLVD

c:\pw\_work\american-pw-0I\d06II87I\PLANSG02.dgn

	STAN	IDARD MA	AST ARI	M ASSEI	MBLIES	DATA T	ABLE				Table Date 11-01-16
STRUCTURE		FIRST	ARM	SECON	ID ARM				POLE		DRILLED
ID NUMBERS	DESIGNATION	ARM ID	FAA (ft.)	ARM ID	SAA (ft.)	UF (deg)	LL (deg)	POLE ID	UAA (ft.)	UB (ft.)	SHAFT ID
T-4-1	A30/S-P1/S	A30/S						P1/S	23	20	DS/12/4
T-4-2	A60/S-P4/S	A60/S						P4/S	23	20	DS/14/5
T-4-3	A40/S-P2/S	A40/S						P2/S	23	20	DS/12/4.5
T-4-4	A60/S-P4/S	A60/S						P4/S	23	20	DS/14/5

## NOTES [Notes Date 11-01-16]:

- 1. 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.
- 2. 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.
- 3. Arm mounting height UB must be between 18-22 feet.
- 4. 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.
- 5. 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.
- 6. Work with Index 649-030 and 649-031.

		REVI	SIONS			A morioon
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	American
						Consulting Engineers of Florida, LLC
						2818 Cypress Ridge Blvd, Suite 200
						Wesley Chapel, Florida 33544
						Phone: (813) 435-2600 Fax: (813) 435-2601
	1		I	I	1	Richard A. Hunter, P.E., No. 50601



SW BAYSHORE BLVD

CITY OF PORT ST. LUCIE
121 S.W. PORT ST. LUCIE BLVD.
PORT ST. LUCIE FI 34984

PORT ST. LUCIE, FL 34984

ROAD COUNTY

STANDARD MAST ARM
ASSEMBLIES DATA TABLE

SHEET NO.

ST. LUCIE