

**PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY**

Meeting Date:	August 22, 2023	<input checked="" type="checkbox"/> Consent	<input type="checkbox"/> Regular
		<input type="checkbox"/> Ordinance	<input type="checkbox"/> Public Hearing

Department:	Engineering & Public Works
Submitted By:	Engineering & Public Works
Submitted For:	Traffic Division

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Work Order EN053023*214 for a cost not to exceed \$371,977.92 to the annual traffic signal contract dated August 23, 2022 (R2022-0791) with Gerelco Traffic Controls, Inc. (Gerelco) to construct a mast arm traffic signal at the intersection of Lantern Drive / 47th Place and Lyons Road, County Intersection ID Number 39795 (Project).

SUMMARY: Approval of this Work Order will allow Gerelco to construct the Project. Staff conducted a signal warrant analysis at this location in August of 2021 and determined that the intersection met the required minimum warrants for traffic signal installation. Per County PPM CW-F-050, this work order exceeds the threshold relating to staff approvals of work orders to annual contracts, thus requiring approval from the Board of County Commissioners (BCC). Prior to this work order, \$2,009,069.07 of Gerelco's \$5,000,000 contract has been spent or encumbered. Gerelco has an office located in Palm Beach County (County). On January 20, 2022, the Office of Equal Business Opportunity granted a waiver of the Affirmative Procurement Initiative based upon the determination that sufficient qualified Small/Minority/Women Business Enterprises providing the goods or services required by the contract are unavailable in the County to perform the specialized construction of traffic signals. On August 23, 2022, the BCC approved the annual traffic signal contract with Gerelco to provide for and install various signal components for traffic control devices. District 6 (YBH)

Background and Justification: The County requests Gerelco construct the Project in accordance with the Work Order. The construction cost is not to exceed \$371,977.92, including a contingency of \$61,996.32. The Engineering & Public Works Department recommends BCC approval.

Attachments:

1. Location Sketch
2. Work Order with Exhibits A and B
3. Office of Equal Business Opportunity Waiver

Recommended By:  **County Engineer** 8/11/2023 **Date**

Approved By:  **Assistant County Administrator** 8/30/2023 **Date**

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2023	2024	2025	2026	2027
Capital Expenditures	\$ 371,978	-0-	-0-	-0-	-0-
Operating Costs	-0-	-0-	-0-	-0-	-0-
External Revenues		-0-	-0-	-0-	-0-
Program Income (County)	-0-	-0-	-0-	-0-	-0-
In-Kind Match (County)	-0-	-0-	-0-	-0-	-0-
NET FISCAL IMPACT	\$ 371,978	-0-	-0-	-0-	-0-
# ADDITIONAL FTE					
POSITIONS (Cumulative)	-0-	-0-	-0-	-0-	-0-

Is Item Included in Current Budget? Yes No
 Does this item include the use of federal funds? Yes No

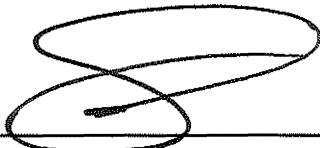
Budget Account No:
 Fund 1201 Dept 360 Unit 3224-253 Object 6408

Recommended Sources of Funds/Summary of Fiscal Impact:

County Transport Trust
 Jpa & Developer Agreements/Trf
 Lantern Drive / 47th Place South at Lyons Rd.

Construction Contract	\$ 309,981.60
Contingency	\$ 61,996.32
Fiscal Impact	\$ 371,977.92

C. Departmental Fiscal Review: _____



III. REVIEW COMMENTS

A. OFMB Fiscal and/or Contract Dev. and Control Comments:

Lucy Mada 7/26/2023
 OFMB JH 7/26
 MD 7/26

David Jacobus 8/1/23
 Contract Dev. and Control
 md 8/1/23

B. Approved as to Form and Legal Sufficiency:

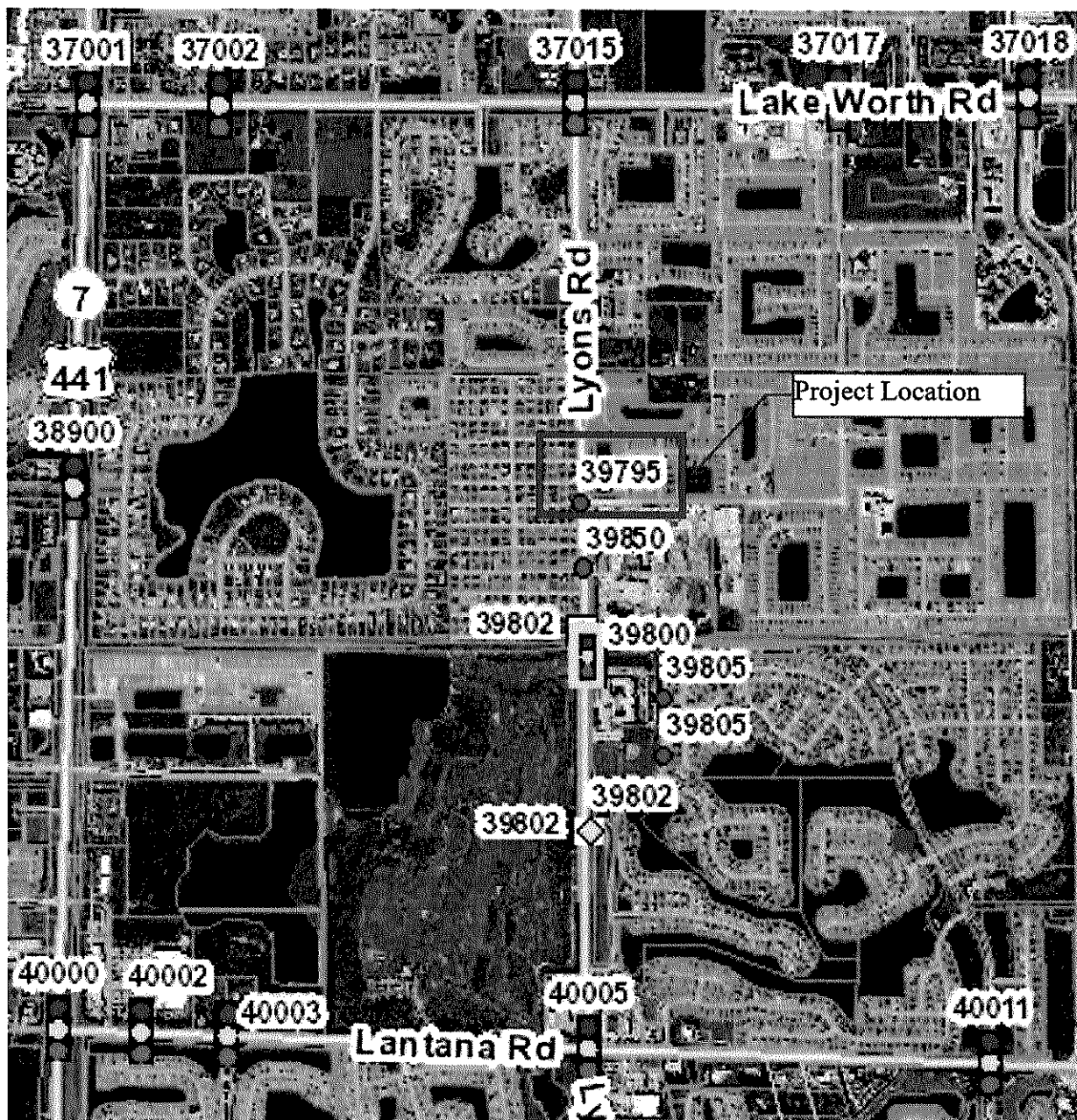
MBH 8/2/2023
 Assistant County Attorney

C. Other Department Review:

 Department Director

This summary is not to be used as a basis for payment.

Location Map



WORK ORDER TO THE ANNUAL TRAFFIC SIGNAL CONTRACT (R2022-0791) BETWEEN PALM BEACH COUNTY AND GERELCO TRAFFIC CONTROLS, INC. TO CONSTRUCT A MAST ARM TRAFFIC SIGNAL AT THE INTERSECTION OF LANTERN DRIVE/47TH PLACE AND LYONS ROAD, PALM BEACH COUNTY INTERSECTION ID NUMBER 39795, SIGNAL PROJECT NUMBER 2022-702, PALM BEACH COUNTY, FLORIDA

THIS WORK ORDER TO THE ANNUAL TRAFFIC SIGNAL CONTRACT DATED AUGUST 23, 2022 (R2022-0791), is made and entered into this ____ day of _____, 2023, by and between Palm Beach County, a political subdivision of the State of Florida, by and through its Board of County Commissioners (COUNTY), and GERELCO TRAFFIC CONTROLS, INC., a Florida corporation with an address of 560 NW Enterprise Drive, Port Saint Lucie, FL 34986 (CONTRACTOR).

WITNESSETH

WHEREAS, on August 23, 2022, COUNTY and CONTRACTOR entered into an Annual Contract (R2022-0791) (CONTRACT) to provide for the furnishing and installation of various signal components for traffic control devices on a work order basis; and

WHEREAS, COUNTY desires CONTRACTOR to construct a mast arm traffic signal at the intersection of Lantern Drive /47th Place and Lyons Road, Palm Beach County Intersection ID Number 39795, (PROJECT); and

WHEREAS, CONTRACTOR agrees to construct the PROJECT in accordance with the terms and conditions of the CONTRACT, as directed and accepted by the COUNTY; and

WHEREAS, pursuant to the CONTRACT, a cost not to exceed \$371,977.92 has been calculated by COUNTY and found to be appropriate compensation for the services to be performed by CONTRACTOR to construct the PROJECT.

NOW, THEREFORE, THIS INDENTURE WITNESSETH: That for and in consideration of the mutual benefits to flow from each to the other, the parties hereto agree as follows:

1. The above recitals are true and correct and incorporated herein.
2. **CONTRACTOR** agrees to provide services for the **PROJECT** in accordance with the **CONTRACT** and as further described in **Exhibit A and B**.
3. **COUNTY** agrees to pay the **CONTRACTOR** a fee not to exceed \$371,977.92 to construct the **PROJECT**. Final payment shall be per documented quantities installed.

IN WITNESS WHEREOF, the Board of County Commissioners of Palm Beach County, Florida, has made and executed this Work Order for the PROJECT, pursuant to the CONTRACT, on behalf of the COUNTY, and CONTRACTOR has hereunto set its hand the day and year above written.

OWNER:

Palm Beach County, a political subdivision of the State of Florida by and through its Board of County Commissioners

BY: _____
Gregg K. Weiss, Mayor

ATTEST:
Joseph Abruzzo
Clerk of the Circuit Court & Comptroller

BY: _____
Deputy Clerk

COUNTY SEAL

APPROVED AS TO TERMS AND CONDITIONS

BY: _____
Motasem Al-Turk
Traffic Division, Director

APPROVED AS TO FORM & LEGAL SUFFICIENCY:

BY: _____
Yelizaveta Herman
Assistant County Attorney

CONTRACTOR:

Gerelco Traffic Controls, Inc., a Florida Corporation

BY: _____
Jake Ridinger
Vice President

CORPORATE SEAL



WITNESS:

BY: _____
O'teaka Lilly
(Printed Name)

BY: _____
Maria Enriquez
(Printed Name)

PALM BEACH COUNTY ENGINEERING & PUBLIC WORKS
TRAFFIC DIVISION WORK ORDER / ANNUAL CONTRACT R2022-0791

PROJECT NAME: Lantern Dr/47th Pl and Lyons Road
(PBC Intersection 39795)

BUDGET LINE ITEM:

KDO NUMBER: KDO EN053023*214

PBC ENGINEERING ANNUAL SIGNAL CONTRACT NUMBER: 2022-0791

PBC ENGINEERING PROJECT NUMBER: N/A

PBC TRAFFIC DIVISION SIGNAL PROJECT NUMBER: 2022-702

WORK ORDER NUMBER: G-11

DATE: _____ COMMISSION DISTRICT: 6

TO: Kenneth A. Geremia, Jr., Gerelco Traffic Controls, Inc.

In accordance with the terms of your contract dated August 23, 2022, you are directed to provide the following supplies and services: Provide for the furnishing and installation of a mast arm traffic signal as shown on the Signal Plan sheets, and Bidtab, dated 5/1/2023.

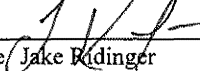
The above work shall be performed at: Lantern Drive/47th Place and Lyons Road (PBC Intersection 39795).

STARTING: The contract duration for this work is 240 days. A separate Notice to Proceed ("NTP") letter will be issued directing the contractor to commence work within the time specified in the NTP letter. The total amount of this Work Order, at the contract prices, is estimated to be \$371,977.92, which includes \$61,996.32 contingency (see attached Bidtab for quantities). The Office of Equal Business Opportunity waived the API Requirements (see attached.)

This work shall be coordinated by, (48 hours prior notice to commencement of work):

<u>Fattoush Jafar, P.E., Ph.D.</u>	<u>Traffic Engineering & Operations Manager</u>	<u>(561) 684-4030</u>
Name	Title	Telephone

Please indicate your receipt of this Work Order by signing and returning a duplicate copy.

	<u>Vice President</u>	<u>(772)340-7474</u>
Name <u>Jake Rindinger</u>	Title	Telephone

Please sign below and submit with invoice at the completion of the project.
Project completed in compliance with Contract and Project specifications.

_____	_____	_____
Signature	Title	Telephone



PBCBCC-TRAFFIC DIVISION
 2300 N. JOG ROAD
 W.P.B., FL. 33411-2745
 Phone: (561) 684-4030 Fax: (561) 478-5770

**GERELCO BIDTAB
 CONTRACT
 #2022052**

DATE: 5/1/2023

P.B.C. PROJECT #: 2022702

INTERSECTION: Lantern Dr/47th Pl S and Lyons Rd
INTERSECTION NO.# 39795

ITEM NO.#	PRODUCT NAME	QTY	PRICE	LINE TOTAL
102-1-A	GENERAL MAINTENANCE OF TRAFFIC - [HR] [F&I]	16	\$121.00	\$1,936.00
630-2-11-2	2" PVC (SCH 40) UNDERGROUND CONDUIT - [LF] [F&I]	252	\$8.30	\$2,091.60
630-2-12-2-3	3-2" (HDPE SDR 11) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) - [LF] [F&I]	585	\$33.00	\$19,305.00
630-2-12-2-5	5-2" (HDPE SDR 11) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) - [LF] [F&I]	125	\$45.00	\$5,625.00
632-7-1-19B	SIGNAL CABLE (SPAN LENGTH 251' - 350') - [PI] [F&I]	1	\$5,850.00	\$5,850.00
632-7-1-4A	PEDESTRIAN SIGNAL CABLE - 4 CONDUCTOR - [PI] [F&I]	1	\$4,500.00	\$4,500.00
632-7-1-7	SIGNAL CABLE - 7 CONDUCTOR - [LF] [F&I]	400	\$5.70	\$2,280.00
632-7-1-7A	PEDESTRIAN SIGNAL CABLE - 7 CONDUCTOR - [PI] [F&I]	1	\$6,250.00	\$6,250.00
635-2-12-A	PULL BOX (17" x 30" x 12"D) HEAVY DUTY COVERS (TIER 15) - [EA] [F&I]	20	\$1,000.00	\$20,000.00
635-2-12-D	PULL BOX (17" x 30" x 24"D) HEAVY DUTY SPLIT COVERS (ITS) (TIER 15) - [EA] [F&I]	1	\$2,200.00	\$2,200.00
639-1-121	ELECTRICAL POWER SERVICE WITH METER BASE (UNDERGROUND) METER FURNISHED BY POWER COMPANY - [AS] [F&I]	1	\$1,325.00	\$1,325.00
639-2-1-3	ELECTRICAL SERVICE WIRE (SINGLE PHASE 3-WIRE, TRIPLEX) - [LF] [F&I]	200	\$5.50	\$1,100.00
639-3-11	ELECTRICAL SERVICE DISCONNECT (BREAKER BOX, SHEET T 6.2 OF PBC STANDARDS) - [EA] [F&I]	1	\$885.00	\$885.00
641-2-12-12	PRESTRESSED CONCRETE POLE (12' TYPE P-II) - [EA] [F&I]	1	\$1,250.00	\$1,250.00
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL WITH TRANSFORMER BASE (8 FEET ABOVE GROUND) - [EA] [F&I]	4	\$1,580.00	\$6,320.00
649-22-6L	MAST ARM ASSEMBLY WITH STREET LIGHT, FURNISH AND INSTALL ON EXISTING FOUNDATION, SINGLE ARM 50' (A50/S-P3/S/L) - [EA] [F&I]	1	\$39,712.00	\$39,712.00
649-22-10L	MAST ARM ASSEMBLY WITH STREET LIGHT, FURNISH AND INSTALL ON EXISTING FOUNDATION, SINGLE ARM 60' (A60/S-P4/S/L) - [EA] [F&I]	2	\$44,326.00	\$88,652.00
649-2-14-45	DRILLED SHAFT FOUNDATION ASSEMBLY, 14' DEEP AND 4.5' DIAMETER, FURNISH AND INSTALL (DS/14/4.5) - [EA] [F&I]	1	\$16,000.00	\$16,000.00
649-2-16-45	DRILLED SHAFT FOUNDATION ASSEMBLY, 16' DEEP AND 4.5' DIAMETER, FURNISH AND INSTALL (DS/16/4.5) - [EA] [F&I]	2	\$18,500.00	\$37,000.00
650-1-13	TRAFFIC SIGNAL HEAD ALUMINUM (3-SECTION, 1-WAY) INCLUDES BACKPLATES - [AS] [F&I]	4	\$1,100.00	\$4,400.00

DATE: 5/1/2023

P.B.C. PROJECT #: 2022702

INTERSECTION:	Lantern Dr/47th Pl S and Lyons Rd
INTERSECTION NO.#	39795

ITEM NO.#	PRODUCT NAME	QTY	PRICE	LINE TOTAL
650-1-14	TRAFFIC SIGNAL HEAD ALUMINUM (4-SECTION, 1-WAY) INCLUDES BACKPLATES - [AS] [F&I]	1	\$1,350.00	\$1,350.00
650-1-15	TRAFFIC SIGNAL HEAD ALUMINUM (5-SECTION, 1-WAY) INCLUDES BACKPLATES - [AS] [F&I]	2	\$1,650.00	\$3,300.00
653-191	PEDESTRIAN SIGNAL - COUNT DOWN (1-WAY) ALUMINUM - [EA] [F&I]	4	\$800.00	\$3,200.00
660-2-106-B	LOOP ASSEMBLY (TYPE F - 46'). - [EA] [F&I]	8	\$2,450.00	\$19,600.00
670-5-310-A	TRAFFIC CONTROLLER ASSEMBLY (TYPE 6 - INSTALL ONLY) - [AS] [I]	1	\$9,500.00	\$9,500.00
700-5-42	INTERNALLY ILLUMINATED SIGN (8') INSTALL ONLY - [EA] [I]	3	\$500.00	\$1,500.00
715-5-32	LUMINAIRE AND BRACKET ARM - GALV STEEL - [EA] [F&I]	3	\$1,350.00	\$4,050.00
665-1-31	Pedestrian Detector (Push Button) - Install Only - [EA] [I]	4	\$200.00	\$800.00
TOTAL:				\$309,981.60

Comments:	Total = \$309,981.60 20% Contingency = \$61,996.32 Grand Total = \$371,977.92
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COUNTY OF PALM BEACH STATE OF FLORIDA

SIGNALIZATION PLANS LANTERN DRIVE/47TH PLACE AT LYONS ROAD P.B.C. PROJECT #2022702 P.B.C. INTERSECTION #39795

90% PLANS

INDEX OF SHEETS

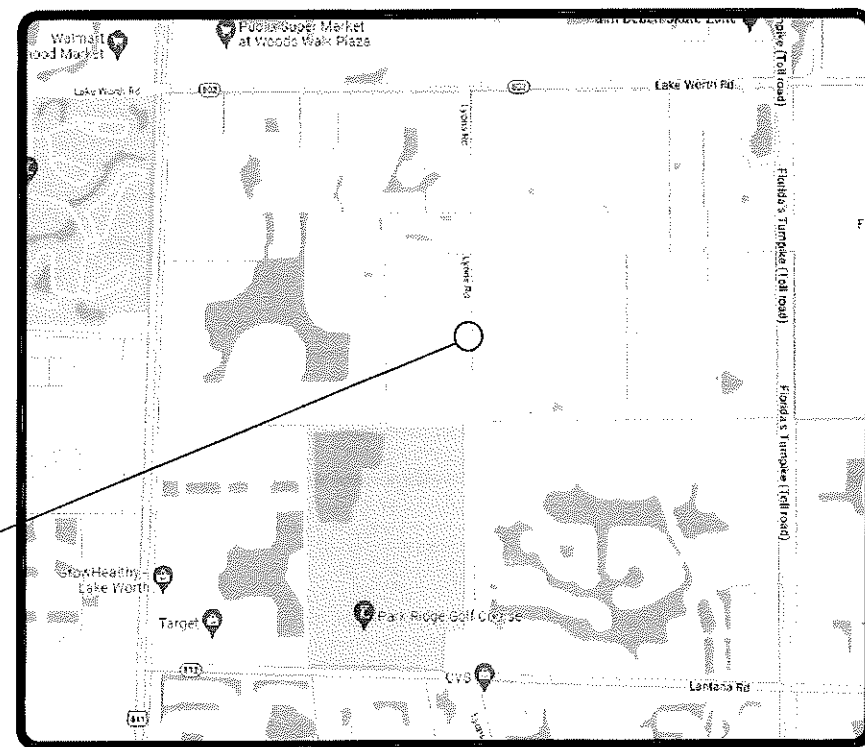
SHEET No.	DESCRIPTION
T-1	KEY SHEET
T-2	TABULATION OF QUANTITIES
T-3	GENERAL NOTES
T-4 & T-5	SIGNALIZATION PLANS
T-5A	PAVEMENT MARKING PLAN
T-6	MAST ARM TABULATION
T-7	MAST ARM ASSEMBLIES
T-8	SIGNAL DETAILS

STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD PLANS
LATEST EDITION AND STANDARD SPECIFICATIONS FOR ROAD
AND BRIDGE CONSTRUCTION LATEST EDITION, FEBRUARY 2021
PALM BEACH COUNTY TYPICALS FOR PAVEMENT MARKINGS,
SIGNING, AND GEOMETRICS, 2022 PALM BEACH COUNTY
TRAFFIC SIGNAL INSTALLATION STANDARDS AND DETAILS AS
AMENDED BY CONTRACT DOCUMENTS.

MAINTENANCE OF TRAFFIC:
FOR INDEX #'S USE F.D.O.T. STANDARD PLANS
102-600, 601, 602, 603, 604, 613, 615, 660 & 661

APPLICABLE DESIGN STANDARDS REVISIONS:
For Design Standards Modifications click on
"Design Standards" at the following web site:
<https://www.fdot.gov/design/standardplans/current>

PROJECT LOCATION



LOCATION MAP
NOT TO SCALE

SEC. 30, TWP. 44S., RGE. 42E.

LYONS ROAD = 45 M.P.H. SPEED LIMIT

SIGNALIZATION SHOP DRAWINGS
TO BE SUBMITTED BY EMAIL TO:
TRICIA@SIMMONSANDWHITE.COM

PLANS PREPARED BY:
SIMMONS & WHITE, INC.
2581 METROCENTRE BLVD WEST, SUITE 3
WEST PALM BEACH, FL 33407

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

ENGINEER'S CERTIFICATION

I HEREBY CERTIFY THAT THE ATTACHED PLANS AND DESIGN ARE
IN SUBSTANTIAL COMPLIANCE WITH THE DESIGN STANDARDS AND
CRITERIA IN EFFECT ON THIS DATE FOR PALM BEACH COUNTY
ENGINEERING DEPARTMENT AND THE STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION.

DATE: _____ PROFESSIONAL ENGINEER #56925

PATRICIA BARR, P.E.

PATRICIA MARIE BARR, P.E., STATE OF FLORIDA,
PROFESSIONAL ENGINEER, LICENSE NO. 56925

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND
SEALED BY PATRICIA MARIE BARR, P.E. ON
1/23/2023 USING A SHA-1 AUTHENTICATION CODE.

PRINTED COPIES OF THIS DOCUMENT ARE NOT
CONSIDERED SIGNED AND SEALED AND THE SHA-1
AUTHENTICATION CODE MUST BE VERIFIED ON ANY
ELECTRONIC COPIES.

SIMMONS & WHITE
ENGINEERING | PLANNING | CONSULTING | SINCE 1982
2581 Metrocentre Blvd West • Suite 3 • West Palm Beach, Florida 33407 • (561) 478-7618

DESIGN T.B.	DRAWN C.O.	CHECKED A.L.	APPROVED R.R.	DATE
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LANTERN DRIVE/47TH PLACE
AT LYONS ROAD
P.B.C. PROJECT #2022702
P.B.C. INTERSECTION #39795
KEY SHEET

JOB NO. 22-082	DRAWING NO. 22082T01	SHEET T-1	OF T-8
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PBC PAY ITEM NO.	DESCRIPTION	UNIT	TABULATION OF QUANTITIES						TOTAL THIS SHEET		GRAND TOTAL		REF. SHEET
			T-4		T-5		T-5A		PLAN	FINAL	PLAN	FINAL	
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL					
101-1	MOBILIZATION/DEMOBILIZATION	LS							1		1		
102-1-A	MOT	LS							1		1		
110-1-1	CLEARING AND GRUBBING	LS							1		1		
327-70-1	MILL EXISTING ASPHALT PAVEMENT (1")	SY	1055						1055		1055		
337-7-82	ASPHALT CONCRETE FRICTION COURSE (1") (TRAFFIC C, FC-9.5, PG 76-22)	TN	85.5						85.5		85.5		
522-1	CONCRETE SIDEWALK 4"	SY	11						11		11		
527-2	DETECTABLE WARNINGS (F & I)	SF	8						8		8		
630-2-11-2	2" PVC (SCH 40) UNDERGROUND CONDUIT (F & I)	LF	252						252		252		
630-2-12-2-1	1-2" (HDPE SDR 11) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) (F & I)	LF	230						230		230		
630-2-12-2-2	2-2" (HDPE SDR 11) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) (F & I)	LF	50						50		50		
630-2-12-2-3	3-2" (HDPE SDR 11) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) (F & I)	LF	125						125		125		
630-2-12-2-5	5-2" (HDPE SDR 11) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) (F & I)	LF	355						355		355		
632-7-1-19G	SIGNAL CABLE (SPAN LENGTH 751' - GREATER)	PI	1						1		1		
632-7-1-4A	PEDESTRIAN SIGNAL CABLE - 4 CONDUCTOR (F & I)	PI	1						1		1		
632-7-1-7A	PEDESTRIAN SIGNAL CABLE - 7 CONDUCTOR (F & I)	PI	1						1		1		
633-1-121	FIBER OPTIC CABLE (F & I) (UNDERGROUND) (12)	LF	150						150		150		
633-2-32	FIBER OPTIC CONNECTION (INSTALL) (TERMINATION)	EA	12						12		12		
633-3-12	FIBER OPTIC CONNECTION HARDWARE (F & I) (SPLICE TRAY)	EA	1						1		1		
635-2-12-A	PULL BOX (17" x 30" x 12"D) HEAVY DUTY COVERS (TIER 15) (F & I)	EA	20						20		20		
635-2-12-D	PULL BOX (17" x 30" x 24"D) HEAVY DUTY SPLIT COVERS (ITS) (TIER 15) (F & I)	EA	1						1		1		
639-1-121	ELECTRICAL POWER SERVICE WITH METER BASE (UNDERGROUND) METER FURNISHED BY POWER COMPANY	AS	1						1		1		
639-2-1-3	ELECTRICAL SERVICE WIRE (SINGLE PHASE 3-WIRE, TRIPLEX) (4 AWG) (F & I)	LF	200						200		200		
639-3-11	ELECTRICAL SERVICE DISCONNECT (BREAKER BOX, SHEET T 6.2 OF PBC STANDARDS) (F & I)	EA	1						1		1		
641-2-12-12	PRESTRESSED CONCRETE POLE (12' TYPE P-II) (F & I)	EA	1						1		1		
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL WITH TRANSFORMER BASE (8 FEET ABOVE GROUND) (F & I)	EA	4						4		4		
649-2-14-45	DRILLED SHAFT FOUNDATION ASSEMBLY, 14' DEEP AND 4.5' DIAMETER, FURNISH AND INSTALL (DS/14/4.5)	EA	1						1		1		
649-2-16-45	DRILLED SHAFT FOUNDATION ASSEMBLY, 16' DEEP AND 4.5' DIAMETER, FURNISH AND INSTALL (DS/16/4.5)	EA	2						2		2		
649-22-6L	MAST ARM ASSEMBLY WITH STREET LIGHT, FURNISH AND INSTALL ON EXISTING FOUNDATION, SINGLE ARM 50' (A50/S-P3/S/L)	EA	1						1		1		
649-22-10L	MAST ARM ASSEMBLY WITH STREET LIGHT, FURNISH AND INSTALL ON EXISTING FOUNDATION, SINGLE ARM 60' (A60/S-P4/S/L)	EA	2						2		2		
650-1-13	TRAFFIC SIGNAL HEAD ALUMINUM (3-SECTION, 1-WAY) INCLUDES BACKPLATES (F & I)	AS			4				4		4		
650-1-14	TRAFFIC SIGNAL HEAD ALUMINUM (4-SECTION, 1-WAY) INCLUDES BACKPLATES (F & I)	AS			1				1		1		
650-1-15	TRAFFIC SIGNAL HEAD ALUMINUM (5-SECTION, 1-WAY) INCLUDES BACKPLATES (F & I)	AS			2				2		2		
653-191	PEDESTRIAN SIGNAL - COUNT DOWN (1-WAY) ALUMINUM (F & I)	AS			4				4		4		
665-1-11	PEDESTRIAN DETECTOR (PUSH BUTTON) (F & I)	EA	4						4		4		
660-2-106-B	LOOP ASSEMBLY (TYPE F 46") (F & I)	EA	8						8		8		
670-5-110-B	TRAFFIC CONTROLLER ASSEMBLY (TYPE 6) AS PER NAZTEC (F & I)	AS	1						1		1		
700-1-11	SINGLE POST SIGN (F & I) (< 12 SF)	AS			1				1		1		
700-1-60	SINGLE POST SIGN (REMOVE)	AS	1						1		1		
700-3-201	SIGN PANEL (F & I) (OVERHEAD) (< 12 SF)	EA			5				5		5		
700-5-22	INTERNALLY ILLUMINATED SIGN (8") FLUORESCENT (F & I)	EA			3				3		3		
706-1-3	RAISED PAVEMENT MARKER (TYPE B)	EA			16				16		16		
711-11-121	THERMOPLASTIC (STD) (WHITE) (SOLID) (6") (F & I)	LF			300				300		300		
711-11-125	THERMOPLASTIC (STD) (WHITE) (SOLID) (24") (F & I)	LF			435				435		435		
711-11-160	THERMOPLASTIC (STD) (WHITE) (SYMBOL) (F & I)	EA					3		3		3		
711-11-170	THERMOPLASTIC (STD) (WHITE) (ARROW) (F & I)	EA					3		3		3		
715-5-11	LUMINAIRE & BRACKET ARM (F & I)	EA	3						3		3		

PAY ITEM NOTES:

- 102-1 INCLUDES COST OF REMOVING ALL CONFLICTING PAVEMENT MARKINGS.
- 630-2-12A CONSISTS OF THE COST ASSOCIATED WITH FURNISHING AND INSTALLING 2-2" CONDUITS (HDPE SDR 11) UNDERPAVEMENT BY DIRECTIONAL BORE.
- 630-2-12C CONSISTS OF THE COST ASSOCIATED WITH FURNISHING AND INSTALLING 4-2" CONDUITS (HDPE SDR 11) UNDERPAVEMENT BY DIRECTIONAL BORE.
- 635-2-11 TYPICAL SIGNAL PULL BOXES SHALL BE 17" X 30" X 12" IN DIMENSION AND HEAVY DUTY TIER 15 OR HIGHER. LIDS TO BE MARKED "PBC TRAFFIC".
- 635-2-12 TYPICAL ITS PULL BOXES SHALL BE 17" X 30" X 24" (SMALL) AND HEAVY DUTY TIER 15 OR HIGHER. LIDS TO BE MARKED "PBC TRAFFIC ITS".
- 635-2-13 TYPICAL ITS PULL BOXES SHALL BE 30" X 48" X 24" (LARGE) AND HEAVY DUTY TIER 15 OR HIGHER. LIDS TO BE MARKED "PBC TRAFFIC ITS".
- 649-XX-XXX AT THE DISCRETION OF THE ENGINEER OF RECORD AND WITH MUTUAL AGREEMENT OF PBC TRAFFIC ENGINEERING, FINAL LOCATIONS OF THE MAST ARMS MAY BE ADJUSTED IN THE FIELD IF THERE IS ANY CONFLICT WITH UTILITIES. SIGNAL CONTRACTOR SHALL VERIFY THE PROPOSED FOUNDATION ELEVATIONS.
- 650-1-XX TRAFFIC SIGNAL HEADS ARE TO BE CAST ALUMINUM. LED MODULES SHALL BE INSTALLED ON ALL SIGNAL DISPLAYS, INCLUDING ARROWS. THESE MODULES SHALL INCLUDE A MANUFACTURER'S WARRANTY OF AT LEAST FIVE YEARS. THE MAXIMUM POWER RATING SHALL BE 10 WATTS FOR RED BALLS, 14 WATTS FOR GREEN BALLS AND 7 WATTS FOR THE ARROWS. ALL SIGNAL HEADS SHALL HAVE TUNNEL VISORS AND BACK PLATES.
- 660-2-106 TYPICAL LOOP SIZE IS 46' LONG.
- 665-1-XX ALL PEDESTRIAN PUSH BUTTONS SHALL BE ADA COMPLIANT. PBC PREFERS THE POLARA ENGINEERING INC BDL3 BULLDOG III SERIES PUSH BUTTON (APL 665-003-011) WITH COUNTY LOGO. CONTACT MANUFACTURER FOR THE CUSTOM ETCHED LOGO AND REFER TO BDL3-B-CE. COSTS OF PEDESTRIAN SIGN FTP-68B-06 SHALL BE INCLUDED IN UNIT PRICE FOR PEDESTRIAN DETECTORS.
- 700-5-XX INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE DOUBLE SIDED AND FREE SWINGING MOUNTED EXCEPT WHERE NOTED. CONTRACTOR SHALL INSTALL ONE PHOTOCELL PER INTERNALLY ILLUMINATED STREET NAME SIGN. PER THE F.D.O.T. PAY ITEM DETAIL, ALL MOUNTING HARDWARE IS INCLUDED IN THE SIGN PAY ITEM. PER MUTCO, USE CORRECT GREEN TRANSLUCENT FILM FOR SIGN PANEL.
- 715-5-XX LUMINAIRE SHALL BE AUTOBAHN SERIES ATB2 LED (ATB2- P601, R4 4K, 175 WATTS WITH 24,770 LUMEN FIXTURE) AND EACH FIXTURE SHALL BE PROVIDED WITH PHOTOELECTRIC CELL. A SEPARATE CIRCUIT/BREAKER SHALL BE PROVIDED IN SIGNAL DISCONNECT FOR MAST ARMS WITH LUMINAIRES, COST OF WHICH IS INCLUDED UNDER THE PAY ITEM.

PATRICIA MARIE BARR, P.E., STATE OF FLORIDA,
PROFESSIONAL ENGINEER, LICENSE NO. 56925

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LANTERN DRIVE/47TH PLACE
AT LYONS ROAD
P.B.C. PROJECT #2022702
P.B.C. INTERSECTION #39795
TABULATION OF QUANTITIES

DESIGN T.B.	DRAWN C.O.	CHECKED A.L.	APPROVED R.R.	DATE	JOB NO. 22-082	DRAWING NO. 22082T02	SHEET OF T-2 T-8
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SIGNALIZATION GENERAL NOTES

- 1.) SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH LIGHTING, UTILITIES, DRIVEWAYS, WHEELCHAIR RAMPS, ETC. MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS (U.S. DEPARTMENT OF TRANSPORTATION, FHWA). WARNING SIGN LOCATION CHANGES MUST BE APPROVED BY THE DISTRICT TRAFFIC PLANS AND STANDARDS ENGINEER.
- 2.) CONTRACTOR SHOULD REVIEW AND ADHERE TO THE PALM BEACH COUNTY TRAFFIC SIGNAL INSTALLATION STANDARDS AND DETAILS 2022 (OR LATEST REVISED EDITION), AND FDOT ROADWAY DESIGN STANDARDS 2022-2023 (LATEST EDITION).
- 3.) THE CONTRACTOR SHALL REFURBISH EXISTING PAVEMENT MARKINGS DAMAGED DURING CONSTRUCTION.
- 4.) PRIOR TO EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE EOR AND PALM BEACH COUNTY TRAFFIC DIVISION EQUIPMENT SPECIFICATIONS OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT. THIS SHALL INCLUDE, BUT IS NOT LIMITED TO:
 - I. NON-STRUCTURAL SUBMITTALS
 - ALL GUIDE SIGN LEGENDS (IF DIFFERENT FROM DETAILED)
 - CONTROLLER CABINET AND ASSEMBLY
 - VIDEO DETECTION SYSTEM.
 - II. STRUCTURAL SUBMITTALS
 - SIGN STRUCTURES, INCLUDING CANTILEVER TRUSSES AND FOUNDATIONS
 - MAST ARM, POLE AND FOUNDATIONS
 - MAST ARM POLES WITH LUMINAIRE ATTACHMENTS SHALL BE PROVIDED WITH SHOP DRAWINGS AND CALCULATIONS.
- 5.) SHOP DRAWINGS AND DESIGN DATA SHALL BE SUBMITTED ELECTRONICALLY TO THE ENGINEER OF RECORD WITH A COPY SENT TO PALM BEACH COUNTY TRAFFIC DIVISION AT ENG-TRAFF-INSPECTION@PBCGOV.ORG. ALLOW 30 DAYS TURN AROUND FOR SUBMITTALS. ALL SUBMITTALS SHOULD BE SUBMITTED TO: TRICIA@SIMMONSANDWHITE.COM
TEL: (561) 478-7848
- 6.) THE CONTRACTOR SHALL CONTACT PALM BEACH COUNTY TRAFFIC OPERATIONS AT (561) 233-3900 FORTY-EIGHT (48) HOURS PRIOR TO CONSTRUCTION IF WORK IS BEING DONE WITHIN 10 FEET OF ANY SIGNAL EQUIPMENT OR IN ADVANCE OF ANY SIGNAL RELATED INSTALLATION WORK.
- 7.) ALL SIGNS AND OTHER TRAFFIC CONTROL DEVICES, EXCEPT EQUIPMENT SHOWN OR NOTED ON THE PLAN SHEETS FOR REMOVAL BY OTHERS, SHALL BE REMOVED BY THE CONTRACTOR AND STOCKPILED WITHIN THE RIGHT OF WAY ONLY AFTER 48 HOUR NOTICE TO THE MAINTAINING AGENCY. CONTROL DEVICES SHALL THEN BE REMOVED BY OTHERS FOR DELIVERY TO THE NOTIFIED AGENCY.
- 8.) ALL REMOVED ITEMS TO BE DELIVERED TO PBCED AT 2555 VISTA PARKWAY WEST PALM BEACH FL - CALL 48 HOURS PRIOR TO DELIVERY (561) 233-3900. CONCRETE POLES CAN BE DISCARDED/PROPERLY DISPOSED OF.
- 9.) THE APPROPRIATE UTILITY COMPANIES SHALL BE NOTIFIED BY THE CONTRACTOR TWO (2) BUSINESS DAYS IN ADVANCE OF ANY EXCAVATION INVOLVING ITS UTILITIES SO THAT A COMPANY REPRESENTATIVE CAN BE PRESENT.

UTILITY OWNER:	TELEPHONE NUMBERS:	CONTACT PERSON:
SUNSHINE STATE ONE CALL	811	
AT&T	561-683-2729	DINO FARRUGGIO
COMCAST	772-321-3425	TONY SPRINGSTEEL
FLORIDA POWER & LIGHT	386-586-6403	JOEL BRAY
FLORIDA PUBLIC UTILITIES CO.	561-252-3308	BRAD COLLINS
PALM BEACH COUNTY TRAFFIC OPERATIONS	561-233-3900	SUPERINTENDENT
PALM BEACH COUNTY WATER UTILITIES	561-493-6116	JACKIE MICHELS

- 10.) DURING DEEP REMOVAL OF MAST ARM FOUNDATION (AND ANY OTHER POLE REMOVAL), IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE ANY OTHER FOUNDATION OR STRUCTURE IN THE CLOSE PROXIMITY OF THE FOUNDATION BEING REMOVED. IF THE CONTRACTOR DETERMINES ANY STRUCTURE OR FOUNDATION IN CLOSE PROXIMITY OF FOUNDATION REMOVED COULD POTENTIALLY BE COMPROMISED, THEY SHALL SECURE IT.
- 11.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD CHECKING INTERSECTION OPERATIONS AS THEY RELATE TO THE INSTALLATION OF MAST ARMS.
- 12.) TEMPORARY DETECTION REQUIRED IF THE EXISTING VEHICLE DETECTION WILL BE IMPACTED AND OUT OF SERVICE FOR MORE THAN 30 DAYS AND IF PEDESTRIAN DETECTION OUT OF SERVICE FOR MORE THAN 3 DAYS WHILE LOCATION IS UNDER CONSTRUCTION.
- 13.) ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED BY THE CONTRACTOR AS FOLLOWS: CORNERS AND MONUMENTS IN CONFLICT WITH THE WORK AND IN DANGER OF BEING DAMAGED, DESTROYED, OR COVERED HAVE TO BE PROPERLY REFERENCED BY A PROFESSIONAL LAND SURVEYOR. THIS SHALL BE DONE IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS. PRIOR TO BEGINNING WORK AT THE SITE, THE CONTRACTOR SHALL RETAIN A LAND SURVEYOR TO REFERENCE AND RESTORE, UPON COMPLETION OF THE WORK, ALL SUCH CORNERS AND MONUMENTS. THE CONTRACTOR SHALL FURNISH, TO THE DISTRICT LOCATION SURVEYOR, A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING.
- 14.) ALL SURVEY BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED AND REFERENCED BY THE CONTRACTOR IN THE SAME WAY AS PUBLIC LAND CORNERS, EXCEPT THAT THE LAND SURVEYOR SHALL NOT BE REQUIRED TO RESTORE THE N.G.V.D. BENCH MARK UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL PROMPTLY TRANSMIT ALL DISPLACED OR DAMAGED N.G.V.D. DISCS TO THE DISTRICT LOCATION SURVEYOR, WHO WILL NOTIFY THE GEODETIC INFORMATION CENTER.
- 15.) THE SIGNAL MAINTAINING AGENCY IS PALM BEACH COUNTY TRAFFIC OPERATIONS, SUPERINTENDENT, (561) 233-3900.
- 16.) ALL EXISTING SIGNALIZATION EQUIPMENT IS ASSUMED TO BE IN GOOD WORKING ORDER UNLESS PBCED IS NOTIFIED IN WRITING PRIOR TO START OF CONSTRUCTION. ANY SUBSEQUENT DAMAGE TO THE SIGNAL EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR.
- 17.) EXISTING COMMUNICATIONS OR COMMAND WIRE CONNECTIONS SHALL BE MAINTAINED AT ALL SIGNALIZED LOCATIONS DURING CONSTRUCTION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, INTERCONNECT, RAILROAD FLASHING BEACONS, RAILROAD PREEMPTION, EMERGENCY VEHICLE PREEMPTION, AND SCHOOL ZONE FLASHERS. CONTRACTOR TO PROVIDE TEMPORARY LINES AND CONNECTIONS IF NECESSARY. COST OF MAINTAINING COMMUNICATION INCLUDING TEMPORARY CONNECTIONS SHALL BE INCLUDED IN PAY ITEM 102-1 MOT. A CELLULAR COMMUNICATION PLAN MAY NEED TO BE INSTALLED AND APPROVED BY THE COUNTY TO MAINTAIN CONTINUOUS COMMUNICATION THROUGHOUT THE PROJECT.
- 18.) NO EXISTING PEDESTRIAN CROSSING TO BE ELIMINATED AT ANY TRAFFIC SIGNAL WITHOUT PRE-APPROVAL FROM PBC TRAFFIC ENGINEERING.
- 19.) IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY DIRECTIONAL BORING OR TRENCHING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS IN ACCORDANCE WITH SECTION 2-4 OF THE FDOT STANDARD SPECIFICATIONS.

- 20.) THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF EXISTING LOOP AND LEAD IN WIRE, OVERHEAD TRANSMISSION LINES, AND UNDERGROUND UTILITIES. THE CONTRACTOR SHALL EXCAVATE BY HAND WHERE CONFLICTS MAY EXIST. DAMAGE TO LOOPS AND ANY SIGNAL EQUIPMENT CAUSED BY CONSTRUCTION OF THIS PROJECT SHALL BE REPAIRED OR REPLACED TO ORIGINAL OR BETTER CONDITION AT NO COST TO PALM BEACH COUNTY.
- 21.) THE LOCATIONS OF EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION.
- 22.) THE PROPOSED LOCATIONS OF ALL POLES, PEDESTALS, AND OTHER EQUIPMENT REQUIRING EXCAVATION SHALL BE CONSIDERED APPROXIMATE DUE TO THE POTENTIAL OF CONFLICT WITH UNDERGROUND UTILITIES. SLIGHT ADJUSTMENTS DIRECTED BY THE ENGINEER MAY ALSO BE NECESSARY TO SATISFY SAFETY CODES.
- 23.) CONTRACTOR TO MAINTAIN EXISTING SIGNAL OPERATIONAL AT ALL TIMES.
- 24.) MAST ARM CONCRETE FOUNDATION SHALL BE POURED IN A SINGLE POUR; FOUNDATIONS THAT DO NOT COMPLY WITH THIS REQUIREMENT SHALL BE COMPLETELY REMOVED AND RE-POURED AT THE CONTRACTOR'S EXPENSE. A DRILL SHAFT INSTALLATION PLAN SHALL BE PART OF THE SHOP DRAWINGS.
- 25.) CONTRACTOR IS RESPONSIBLE FOR THE PROPER BOLT PROJECTION ABOVE FINISHED SIDEWALK GRADE. THE CONTRACTOR SHALL ENSURE THAT THE DRILL SHAFT AND BOLT PATTERNS ARE INSTALLED CORRECTLY SO THAT THE MAST ARM WILL BE ANGLED AS SHOWN ON THE PLANS.
- 26.) IF PHASE 1 (UNDERGROUND ONLY) AND PHASE 2 (ABOVE GROUND) IS PROPOSED ON PERMITTING PROJECTS, CONTRACTOR IS RESPONSIBLE TO ENSURE EXPOSED BOLTS ARE PROTECTED FROM THE ELEMENTS (INSTALL BOLT CAPS).
- 27.) FOR MAST ARM SIGNAL INSTALLATIONS, THE CONTRACTOR SHALL INSTALL WIRE MESH SUPPORT GRIPS FOR STRAIN RELIEF. ALL SIGNAL CABLE MUST BE HELD BY A STRAIN RELIEF (LE GRAND BC0750FSS) ATTACHED TO THE J HOOK INSIDE OF A MAST ARM. TO USE APPROVED EQUIVALENT, SHOP DRAWINGS SHALL BE SUBMITTED TO PBC ENGINEER FOR PRE-APPROVAL. WRITTEN APPROVAL FOR SHOP DRAWINGS SHALL BE PROVIDED AT TIME OF FINAL SIGNAL INSPECTION.
- 28.) SIGNAL CABLE - CONTRACTOR SHALL INSTALL TRAFFIC SIGNAL CABLE IN ACCORDANCE WITH PBC STANDARDS. THERE SHALL BE NO SPLICING. IF CONTINUOUS RUNS ARE NOT POSSIBLE, THEN TERMINAL BLOCK SHALL BE USED.
- 29.) CONTROLLER CABINET - THE CONTROLLER CABINET SHALL BE INSTALLED SUCH THAT THE CONTROLLER DOOR WILL OPEN AWAY FROM THE ROADWAY TRAVEL LANES AND POSITIONED TO ALLOW THE TECHNICIAN TO SEE THE INTERSECTION.
- 30.) CONTRACTOR TO PROVIDE A MINIMUM 2 FEET CABLE SLACK AT ALL PULL BOXES AND HAND HOLDS.
- 31.) PEDESTRIAN SIGNALS - EACH PEDESTRIAN SIGNAL SHALL BE FED WITH ONE 7 CONDUCTOR CABLE FOR PED SIGNAL HEAD AND ONE 4 CONDUCTOR CABLE FOR THE PED DETECTOR/PUSH BUTTON. THESE CABLES WILL RUN FROM EACH PEDESTRIAN SIGNAL/DETECTOR DIRECTLY TO CONTROL BOX WITH NO SPLICES.
- 32.) POSITION PULL BOXES, CABINETS, POLES AND OTHER OBSTRUCTIVE ITEMS CLEAR OF CURB CUT RAMPS. PULL BOXES SHALL BE PLACED BEHIND CURB AND GUTTER. IF THERE IS NO CURB AND GUTTER, THEN PULL BOXES SHALL BE PLACED AT LEAST 10 FEET FROM THE EDGE OF PAVEMENT. PULL BOXES SHALL NOT BE LOCATED AT THE BOTTOM OF ANY DITCH OR RETENTION AREA/POND. ALL PULL BOXES SHALL HAVE A 1' WIDE (MIN.) X 6" DEEP CONTINUOUS CONCRETE APRON SLOPED AWAY FROM BOX (TYPICALLY 1%).
- 33.) SPARE CABINET CONDUIT SHALL BE STUBBED AND CAPPED IN THE NEAREST PULL BOX. USE GEL CAPS FOR ANY SPARE/USED CONDUIT.
- 34.) THE USE OF "JONES" PLUGS FOR SIGNAL INSTALLATIONS SHALL BE PROHIBITED.
- 35.) ALL FIELD WIRING SHALL BE NEATLY BUNDLED AND CLEARLY IDENTIFIED WITH PERMANENT LEGIBLE, WEATHERPROOF TAGS THAT ARE SECURELY ATTACHED TO EACH CABLE. THE TAGGING SYSTEM PROPOSED SHALL BE SUBMITTED FOR APPROVAL WITH THE OTHER EQUIPMENT SUBMITTALS REQUIRED FOR THIS PROJECT.
- 36.) THE CONTRACTOR SHALL VERIFY COLOR CODES OF SIGNAL CABLE WITH PALM BEACH COUNTY BEFORE ORDERING.
- 37.) DO NOT INSTALL LOOP LEAD-INS WITHIN PAVERS OR IN THE AREA BETWEEN PAVERS AND EDGE OF CURB. FOR ANY INTERSECTIONS WITH PAVERS, THE LEAD-INS NEED TO RUN THROUGH CONDUITS UNDER THE PAVERS.
- 38.) INSTALL PEDESTRIAN SIGNALS PER ADA CLEARANCES, PROVIDING CONTINUOUS UNOBSTRUCTED PEDESTRIAN/WHEELCHAIR CIRCULATION PATH TO PEDESTRIAN AREAS (PUSH BUTTON, RAMP, ETC).
- 39.) THE T-BASE (PEDESTRIAN PEDESTAL BASE) SHALL BE ORIENTED SO THE TECHNICIAN CAN OPEN THE DOOR AND ALSO SEE ON-COMING TRAFFIC. CAULK AS NEEDED IF THERE IS A LARGE GAP BETWEEN CONCRETE FOUNDATION/SIDEWALK AND THE PEDESTAL BASE.
- 40.) PEDESTAL POLE BASE NUT SHOULD BE LARGE ENOUGH TO COVER HOLE AND WASHER.
- 41.) ALL SET SCREWS MUST BE INSTALLED (NONE SHOULD BE MISSING). MOST MANUFACTURERS HAVE THEM DESIGNED INTO THE PEDESTRIAN BASES FROM FACTORY. WHEN PEDESTAL POLE IS SET AT PROPER DIRECTION, DRILL AND TAP HOLE THRU BASE AND ALUMINUM CONDUIT. SET SCREWS SHOULD GO THROUGH SIDE OF BASE INTO PEDESTAL POLE TO PENETRATE INTO PIPE TO KEEP IT FROM ROTATING. USING A 1/4"x20 SS HEX HEAD BOLT WILL LOCK THE PIPE FROM TURNING.
- 42.) BOLTS SHOULD BE LONG ENOUGH TO PROTRUDE THROUGH THE THREADED HOLE AND HOLD WASHER AND NUT.
- 43.) CAULKING/SEALANT TO BE APPLIED AT ALL SIGNALS FLANGE CONNECTIONS, INCLUDING BUT NOT LIMITED TO THE TOP OF THE FLASHER SIGNAL.
- 44.) THE CONTRACTOR SHALL BUILD NEW ELECTRICAL POWER SERVICE AND DISCONNECT ON MONUMENT WITH A MINIMUM HEIGHT OF EIGHT (8) FEET.
- 45.) THE CONTRACTOR SHALL COORDINATE AND FIELD VERIFY LOCATION(S) OF ELECTRICAL SERVICE POINT PRIOR TO INSTALLING CONDUIT, DISCONNECT SWITCH, TRANSFORMER AND PULL BOXES.
- 46.) POWER SOURCE - ON MODIFICATIONS/UPGRADES TO EXISTING TRAFFIC SIGNALS A) IF ADDING LOAD, THEN ADD METER; B) IF NOT ADDING LOAD (IE JUST RELOCATING SAME EQUIPMENT) KEEP EXISTING POWER SOURCE. ALL NEW INSTALLED SIGNALS WILL BE METERED. CONTRACTOR SHALL COORDINATE WITH FPL FOR NEW INSTALLATION AS REQUIRED. ELECTRIC SERVICE TO BE SET UP IN CONTRACTOR'S NAME, THEN TRANSFERRED TO PBC TRAFFIC DIVISION AFTER 90 DAY BURN AND FINAL ACCEPTANCE.
- 47.) THE CONTRACTOR SHALL COORDINATE WORK SCHEDULE, COORDINATE TIMING AND AUTHORIZATION OF POWER SERVICE WITH PALM BEACH COUNTY TRAFFIC ENGINEERING. CONTACT TIMING ENGINEER (561-684-4030) 2 WEEKS IN ADVANCE OF CONSTRUCTION AND TO COORDINATE TIMING CHANGES PRIOR TO LOOP DAMAGE. CONTACT PBC TRAFFIC OPERATIONS (561-233-3900) TO COORDINATE REPLACING THE OLD SCHOOL FLASHERS AND RETIMING THE NEW SCHOOL FLASHERS.
- 48.) THE CONTRACTOR SHALL SUBMIT IN WRITING TO THE MAINTAINING AGENCY FOR FINAL INSPECTION. ALLOW TWO (2) WEEKS FOR INSPECTION. TO SCHEDULE A SIGNAL INSPECTION, PLEASE EMAIL ENG-TRAFF-INSPECTION@PBCGOV.ORG.
- 49.) AT THE TIME OF FINAL ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL FURNISH PALM BEACH COUNTY WITH TWO (2) COMPLETE COPIES OF SIGNED AND SEALED AS-BUILT PLANS AND CONSULTANT TO PROVIDE ELECTRONIC CADD FILES.
- 50.) A 90 DAY BURN-IN PERIOD IS REQUIRED FOR ALL TRAFFIC SIGNAL EQUIPMENT. THE BURN-IN PERIOD WILL COMMENCE UPON A WRITTEN CONDITIONAL ACCEPTANCE BY THE COUNTY AND WILL TERMINATE NINETY (90) CONSECUTIVE DAYS, THEREAFTER, UNLESS AN EQUIPMENT MALFUNCTION OCCURS.

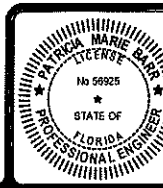
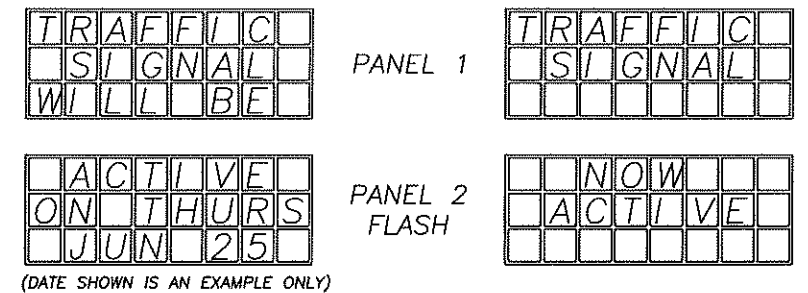
- 51.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND PERFORMING ALL TREE TRIMMING AND TREE REMOVAL.
- 52.) AFTER THE SIGNAL INSPECTION IS COMPLETED AND ALL OUTSTANDING ISSUES ARE RESOLVED (PUNCH LIST ITEMS COMPLETED), THE CONTRACTOR CAN REQUEST PALM BEACH COUNTY TO SCHEDULE THE SIGNAL ACTIVATION. CONTRACTOR OR CEI SHALL REQUEST ACTIVATION TWO WEEKS IN ADVANCE.
- 53.) DURING CONSTRUCTION OF NEW SIGNAL EQUIPMENT AT EXISTING SIGNALIZED INTERSECTION, THE CONTRACTOR SHALL COORDINATE THEIR ACTIVITIES TO ENSURE THAT FUNCTIONING TRAFFIC SIGNALS REMAIN VISIBLE TO MOTORISTS.
- 54.) SPAN WIRE SIGNALS ONLY - DISCONNECTS FOR SIGNAL HEADS ON SPAN WIRE SIGNALS SHALL BE MODEL #1150-18-T APL 659-004-007 WITH TRI STUD SPAN WIRE CLAMP ADAPTER MODEL #1156-T APL 659-016-002. BOTH ARE MANUFACTURED BY ENGINEERING CASTINGS AND SUPPLIED BY PELCO PRODUCTS. ALL EQUIPMENT TO BE APPROVED BY PBC TRAFFIC PRIOR TO ORDERING VIA THE SHOP DRAWINGS.

MAINTENANCE OF TRAFFIC:

- 55.) THE CONTRACTOR SHALL PREPARE TRAFFIC CONTROL PLANS AND SUBMIT THEM FOR REVIEW AND APPROVAL BY THE ENGINEER OF RECORD AND THE TRAFFIC DIVISION - MOT SECTION AT LEAST TWO (2) WEEKS IN ADVANCE OF PROPOSED WORK. NO LANE CLOSURES ARE ALLOWED DURING AM AND PM PEAK HOURS (BASED ON LANE CLOSURE ANALYSIS).
- 56.) THE CONTRACTOR SHALL INSTALL CONSTRUCTION SIGNING PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL MAINTAIN SIGNING DURING ALL PHASES OF CONSTRUCTION.
- 57.) NOTIFICATION OF PROPOSED LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED, IN WRITING, 14 BUSINESS DAYS IN ADVANCE OF CLOSURE OR DETOUR.
- 58.) AT THE DISCRETION OF THE ENGINEER, IF A LANE CLOSING CAUSES EXTENDED CONGESTION, THE CONTRACTOR SHALL BE DIRECTED TO REOPEN THE CLOSED LANE(S) UNTIL SUCH TIME AS TRAFFIC FLOW HAS RETURNED TO AN ACCEPTABLE LEVEL.
- 59.) THE ALTERATION OF TRAFFIC TRAVEL-WAYS TO CREATE A WORK ZONE SHALL NOT COMMENCE UNTIL ALL LABOR AND MATERIALS ARE READY FOR THE CONSTRUCTION IN THAT ZONE.
- 60.) REGULATORY SPEED DURING CONSTRUCTION SHALL REMAIN AT THE POSTED SPEED.
- 61.) ALL PEDESTRIAN DETOURS FOR MOT TO BE PRE-APPROVED BY PBC TRAFFIC ENGINEERING DIVISION.
- 62.) ANY SIGNAL MODIFICATION NECESSARY IN ORDER TO CARRY OUT PROJECT CONSTRUCTION SHALL BE SUBMITTED TO PBC TRAFFIC ENGINEERING DIVISION FOR APPROVAL. SIGNAL MODIFICATION SUBMITTAL TO BE IN A FORM OF A LEGIBLE PLAN THAT CLEARLY SHOWS THE SIGNAL HEAD FACES AND ALIGNMENT WITH THE PROPOSED LANE MODIFICATION, AND SIGNAL PHASING. ALL SIGNAL MODIFICATIONS TO FOLLOW MUTCD MINIMUM REQUIREMENTS.
- 63.) MOT PLANS WILL NOT BE APPROVED UNTIL THE SIGNAL MODIFICATION PLANS HAVE BEEN APPROVED BY PBC TRAFFIC ENGINEERING.
- 64.) THE CONTRACTOR SHALL REMOVE OR COVER ANY EXISTING OR PROPOSED SIGNS OR PAVEMENT MARKINGS WHICH CONFLICT WITH THE TRAFFIC CONTROL THROUGH THE WORK ZONE. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE SIGNS OR PAVEMENT MARKINGS TO THEIR ORIGINAL POSITION.
- 65.) WITH NEW TRAFFIC SIGNAL INSTALLATION AND PRIOR TO ACTIVATION: VARIABLE MESSAGE SIGNS SHALL BE INSTALLED SEVEN (7) DAYS BEFORE AND SEVEN (7) DAYS AFTER SIGNAL ACTIVATION AS FOLLOWS:

PRIOR TO SIGNAL ACTIVATION

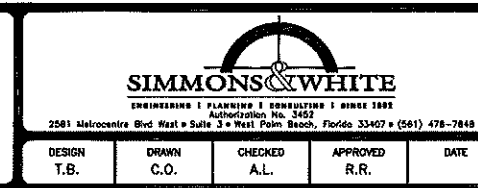
AFTER SIGNAL ACTIVATION



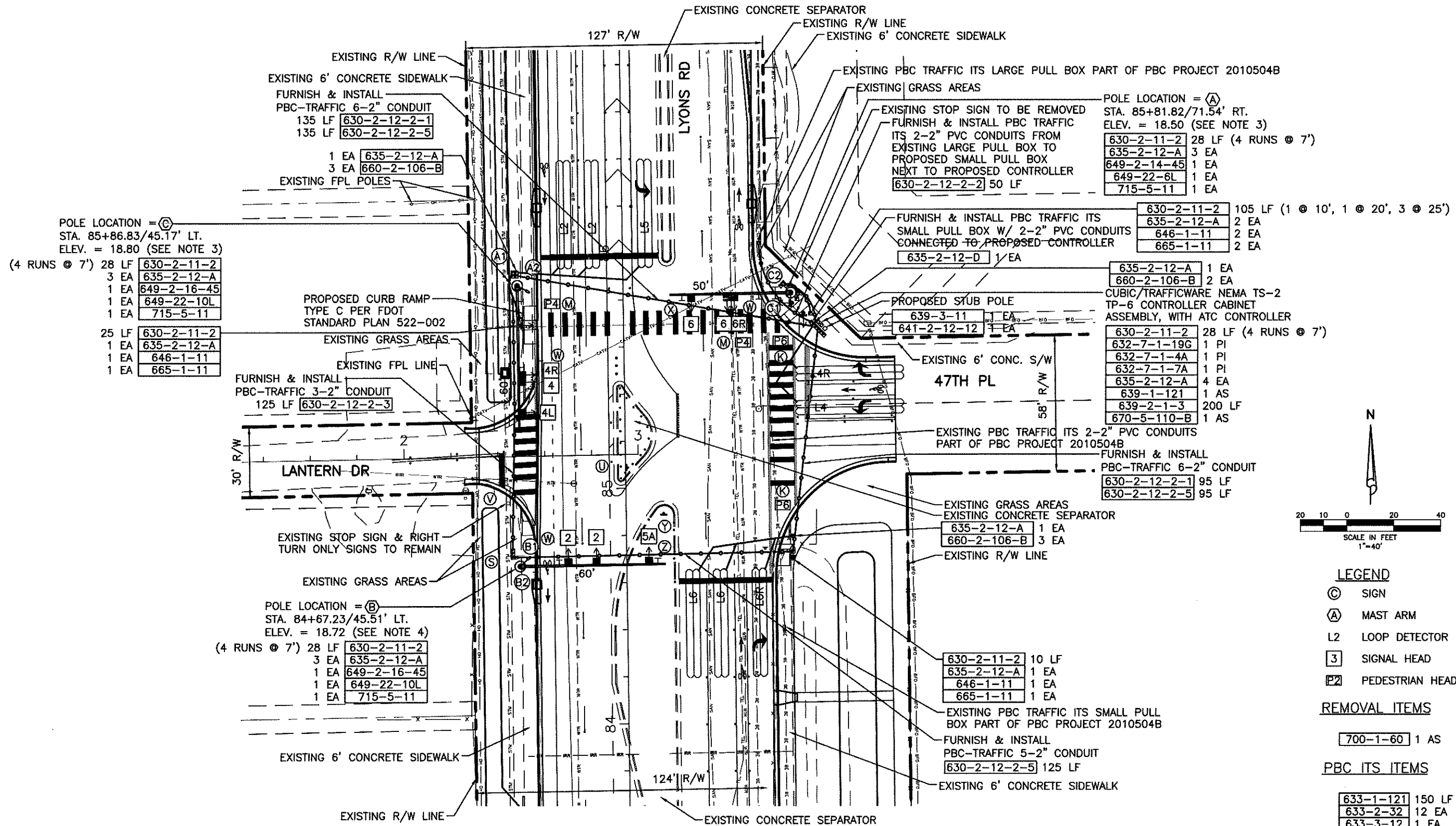
PATRICIA MARIE BARR, P.E., STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 56925

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LANTERN DRIVE/47TH PLACE AT LYONS ROAD			
P.B.C. PROJECT #2022702 P.B.C. INTERSECTION #39795 GENERAL NOTES			
DESIGN T.B.	DRAWN C.O.	CHECKED A.L.	APPROVED R.R.
JOB NO. 22-082	DRAWING NO. 22082T03	SHEET T-3	OF T-8



NOTES:

1. ALL STATIONS/OFFSETS ARE MEASURED W.R.T. THE BASELINE OF LYONS ROAD.
2. REFER TO ROADWAY AND SIGNING & PAVEMENT MARKING PLANS BY HSQ GROUP, INC. FOR PROJECT NO. 2010504B.
3. TOP OF FOUNDATION FOR MAST ARMS A & C SHALL BE 6" ABOVE EXISTING GRADE ELEVATION AT CENTER OF PROPOSED FOUNDATION. CONTRACTOR SHALL ADJUST TOP OF FOUNDATION ELEVATION AS NEEDED TO MAINTAIN 6" OFFSET BETWEEN TOP OF FOUNDATION AND EXISTING GRADE.
4. TOP OF FOUNDATION FOR MAST ARM B SHALL MATCH THE EXISTING SIDEWALK ELEVATION.

PATRICIA MARIE BARR, P.E., STATE OF FLORIDA,
PROFESSIONAL ENGINEER, LICENSE NO. 56925

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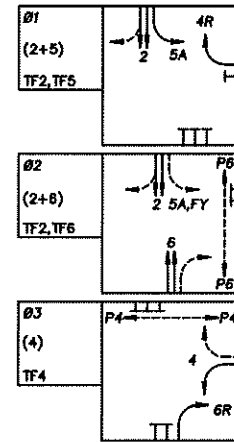
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DESIGN	DRAWN	CHECKED	APPROVED	DATE
T.B.	C.O.	A.L.	R.R.	

**LANTERN DRIVE/47TH PLACE
AT LYONS ROAD**
P.B.C. PROJECT #2022702
P.B.C. INTERSECTION #39795
SIGNALIZATION PLAN

JOB NO.	DRAWING NO.	SHEET	OF
22-082	22082T04	T-4	T-8

SOP 2 MODIFIED



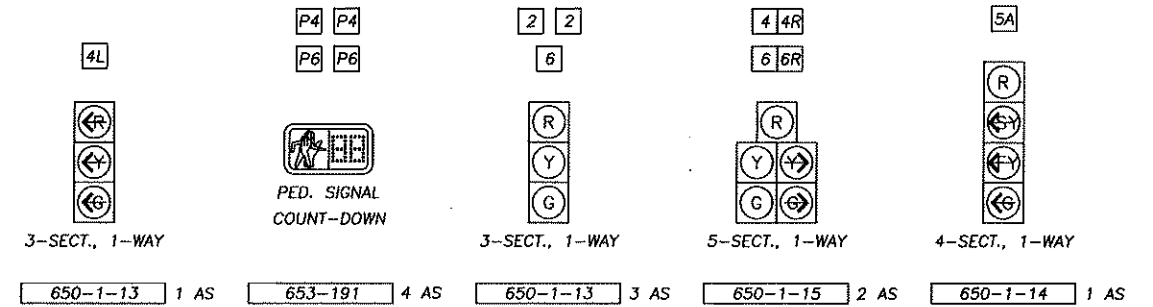
NOTE:

PHASE 4R AND PHASE 6R SHALL NOT OPERATE IN CONFLICT OF PED PHASE P4 AND PED PHASE P6 RESPECTIVELY.

LOOP DETECTOR CONNECTION			
DETECTOR UNIT NO.	DETECTOR OPERATION	CONNECTED TO LOOP	CONNECTED TO TIMING FUNCTION
1	NORMAL	L2	TF2
2	NORMAL/DELAY	L4, L4R	TF4
3	NORMAL	L5	TF5
4	NORMAL	L6	TF6
5	DELAY	L6R	TF6

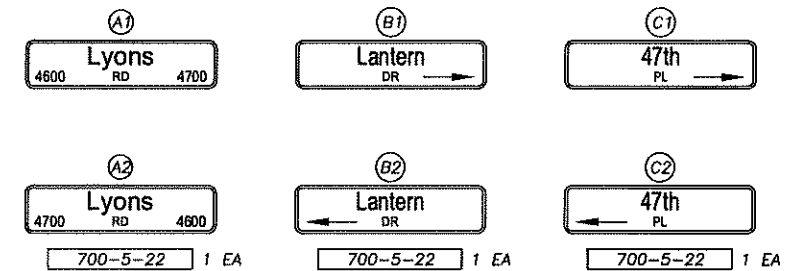
DETAIL OF SIGNAL HEADS

N.T.S.



DETAIL OF STREET NAME SIGNS

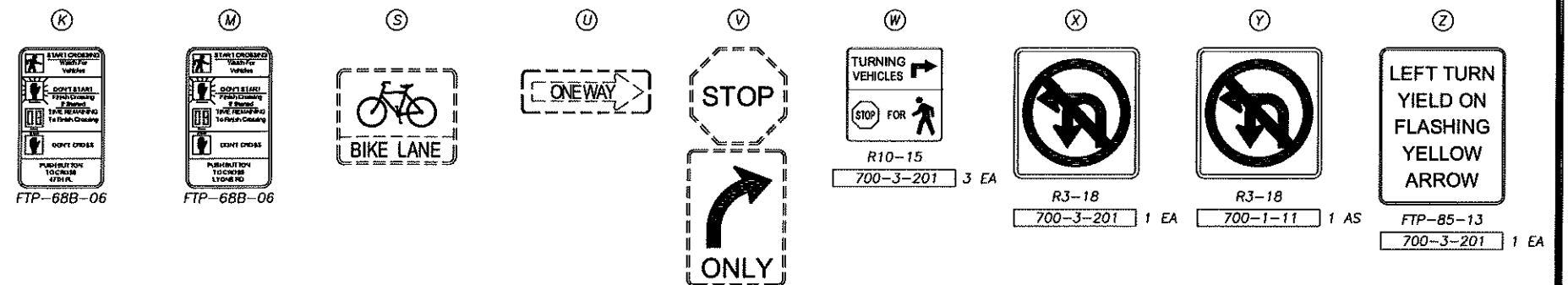
N.T.S.



-MAXIMUM SIGN DIMENSION 8' LENGTH MAX. AND 2' HEIGHT
-SIGNS SHALL MEET PALM BEACH COUNTY TYPICALS & MUTCD. REFER TO PALM BEACH COUNTY TYPICALS FOR DETAILS ON SIGN INSTALLATION, DIMENSION & LETTERING.

DETAIL OF SIGNS

N.T.S.



COST OF FTP-68B-06 SIGNS SHALL BE INCLUDED UNDER PAY ITEM 665-1-11.

NOTES:

- CONTROLLER OPERATIONS:
 - THE CONTROLLER SHALL OPERATE AS SIGNAL OPERATING PLAN 2 MODIFIED.
 - MAJOR STREET IS LYONS ROAD AND MINOR STREET IS LANTERN DRIVE/47TH PLACE.
 - FLASHING OPERATION TO BE YELLOW FOR MAJOR STREET MOVEMENTS 2 & 6 AND RED FOR ALL OTHER MOVEMENTS.
- ACTUAL SIGNAL TIMINGS AND COORDINATION PLANS ARE TO BE DETERMINED BY THE PALM BEACH COUNTY ENGINEER'S REPRESENTATIVE.
- THE SPEED LIMIT ON LYONS ROAD IS 45 MPH & ON 47TH PLACE IS 40 MPH.

PATRICIA MARIE BARR, P.E., STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 56925

THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY PATRICIA MARIE BARR, P.E. ON 1/23/2023 USING A SHA-1 AUTHENTICATION CODE.

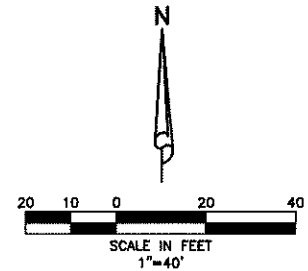
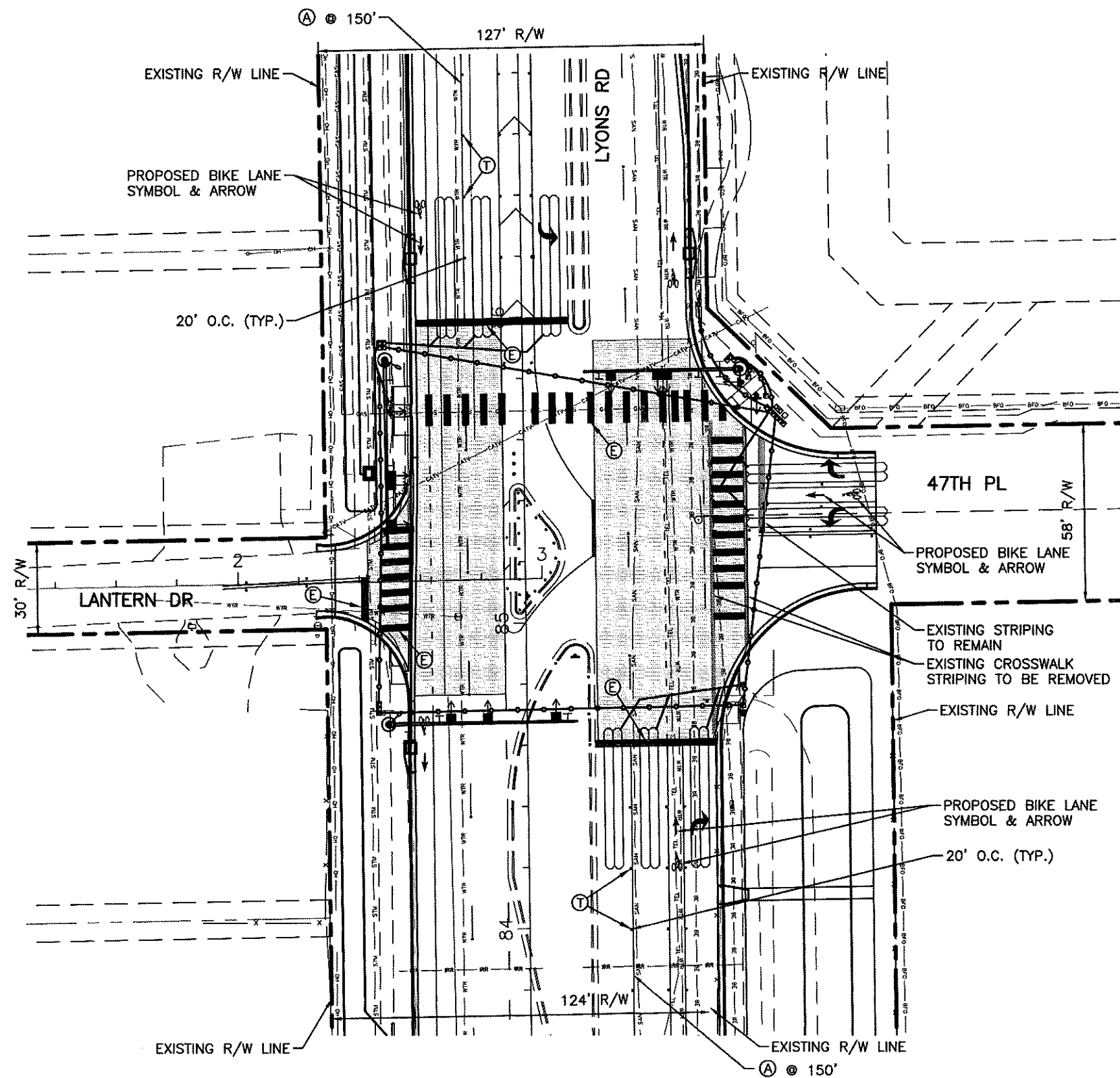
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

SIMMONS & WHITE
ENGINEERING | PLANNING | CONSULTING | SINCE 1882
2581 Metrocentre Blvd West • Suite 3 • West Palm Beach, Florida 33407 • (561) 478-7848

DESIGN	DRAWN	CHECKED	APPROVED	DATE
T.B.	C.O.	A.L.	R.R.	

LANTERN DRIVE/47TH PLACE
AT LYONS ROAD
P.B.C. PROJECT #2022702
P.B.C. INTERSECTION #39795
SIGNALIZATION PLAN

JOB NO.	DRAWING NO.	SHEET OF
22-082	22082T05	T-5 T-8



LEGEND

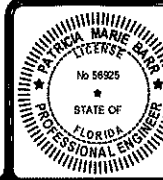
- STRIPING
- MILL EXISTING PAVEMENT 1.5" & RESURFACE 1.5" TYPE FC-12.5 ASPHALT FRICTION COURSE (TRAFFIC C)

STRIPING KEY

- A - 6" SOLID WHITE
- B - 8" SOLID WHITE
- C - 12" SOLID WHITE
- D - 18" SOLID WHITE
- E - 24" SOLID WHITE
- F - 6" SKIP WHITE TYP. (10'-30')
- G - 6" SKIP WHITE TYP. (6'-10')
- H - 6" SKIP WHITE TYP. (2'-4')
- I - 6" SOLID YELLOW
- J - 18" SOLID YELLOW
- K - 6" DOUBLE YELLOW
- L - 6" SKIP YELLOW TYP. (10'-30')
- M - 6" SKIP YELLOW TYP. (6'-10')
- N - 6" SKIP YELLOW TYP. (2'-4')
- P - R.P.M. BI-DIRECTIONAL AMBER/AMBER
- R - F.D.P. WHITE
- S - F.D.P. YELLOW
- T - R.P.M. BI-DIRECTIONAL WHITE/RED
- U - R.P.M. BI-DIRECTIONAL RED/YELLOW

NOTES:

1. ALL STATIONS/OFFSETS ARE MEASURED W.R.T. THE BASELINE OF LYONS ROAD.
2. REFER TO ROADWAY AND SIGNING & PAVEMENT MARKING PLANS BY HSQ GROUP, INC. FOR PROJECT NO. 2010504B.



PATRICIA MARIE BARR, P.E., STATE OF FLORIDA,
PROFESSIONAL ENGINEER, LICENSE NO. 56925

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1/23/2023 USING A SHA-1 AUTHENTICATION CODE.

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**LANTERN DRIVE/47TH PLACE
AT LYONS ROAD**
P.B.C. PROJECT #2022702
P.B.C. INTERSECTION #39795
PAVEMENT MARKING PLAN

JOB NO. 22-082	DRAWING NO. 22082T05A	SHEET OF T-5A T-8
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STANDARD MAST ARM ASSEMBLIES DATA TABLE										TABLE DATE 11-01-16	
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.)	
A	A50/S-P3/S/L-DS/14/4.5	A50/S					90	P3/S/L		22	DS/14/4.5
B	A60/S-P4/S/L-DS/16/4.5	A60/S					45	P4/S/L		21	DS/16/4.5
C	A60/S-P4/S/L-DS/16/4.5	A60/S					45	P4/S/L		22	DS/16/4.5

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. 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.
4. Work with Indexes 649-030 and 649-031.

GEOTECHNICAL NOTES:

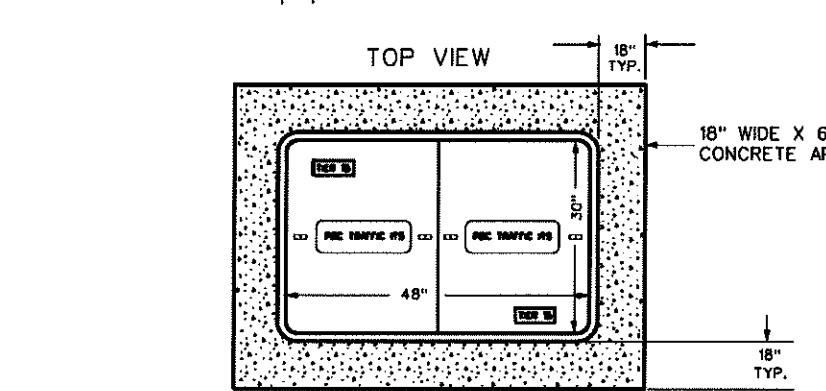
1. The Contractor shall anticipate difficult drilled shaft installation due to the presence of loose to very loose sand, or compacted fill, or any combination of these layers. The presence of difficult soil conditions may occur at varying depths below the ground. The Contractor shall anticipate potential cave-in of the sandy soils, and difficult/impossible conditions to retain bentonite/polymer slurry inside the drilled holes.
2. The sand strata encountered in this area is sometimes mixed with cemented sand and limestone that could offer high resistance and lead to caving soils. Special equipment and/or procedures may be required to excavated and stabilize excavations.

 <p>PATRICIA MARIE BARR, P.E., STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 56925</p> <p>THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY PATRICIA MARIE BARR, P.E. ON 1/23/2023 USING A SHA-1 AUTHENTICATION CODE.</p> <p>PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SHA-1 AUTHENTICATION CODE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.</p>	 <p>SIMMONS & WHITE ENGINEERING PLANNING CONSULTING SINCE 1952 2581 Metrocentre Blvd West • Suite 3 • West Palm Beach, Florida 33407 • (561) 478-7848 Authorization No. 3452</p>	<p>LANTERN DRIVE/47TH PLACE AT LYONS ROAD P.B.C. PROJECT #2022702 P.B.C. INTERSECTION #39795 MAST ARM ASSEMBLIES</p>					
		<p>DESIGN T.B.</p>	<p>DRAWN C.O.</p>	<p>CHECKED A.L.</p>	<p>APPROVED R.R.</p>	<p>DATE</p>	<p>JOB NO. 22-082</p>



WARNING
BURIED
SIGNAL
CABLE
BEFORE DIGGING
IN THIS AREA
CALL
P B COUNTY
TRAFFIC DIV.
561 233-3900

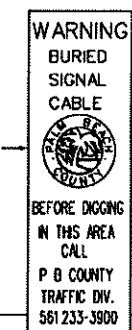
INSTALL ROUTE MARKER AT EVERY OTHER
PULL BOX WHERE PULL BOXES ARE IN TURF AREAS AND
ON BOTH SIDES OF CANAL CROSSING. DO NOT INSTALL
MARKERS IF THE PULL BOXES ARE IN OR NEXT TO SIDEWALK.
COST OF ROUTE MARKER SHALL BE INCLUDED IN COST OF CONDUITS.



Store 200' of slack Fiber Optic Cable
in 30x48x24" large pullboxes,
store 20' in 17x30x24" pullbox, and
store 200' on each side of FO splice enclosure.

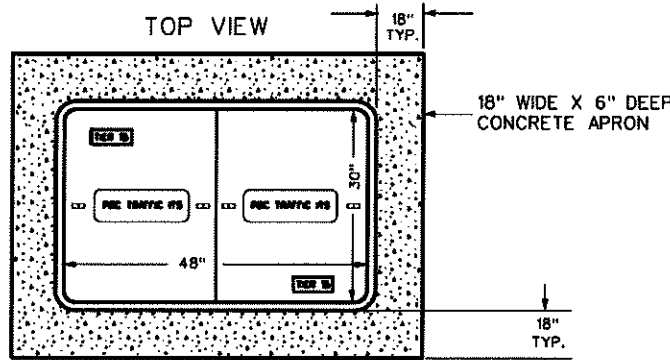
NOTE: SIGNAL pullboxes (for signal cables)
shall be 17x30x12" deep, not 24" deep.
Refer to PBC Signal Typical.

LABELS ARE SUPPLIED BY
PALM BEACH COUNTY TRAFFIC.
FOR LABELS CALL: 561-681-4326
(SEE NOTE NO. 6)

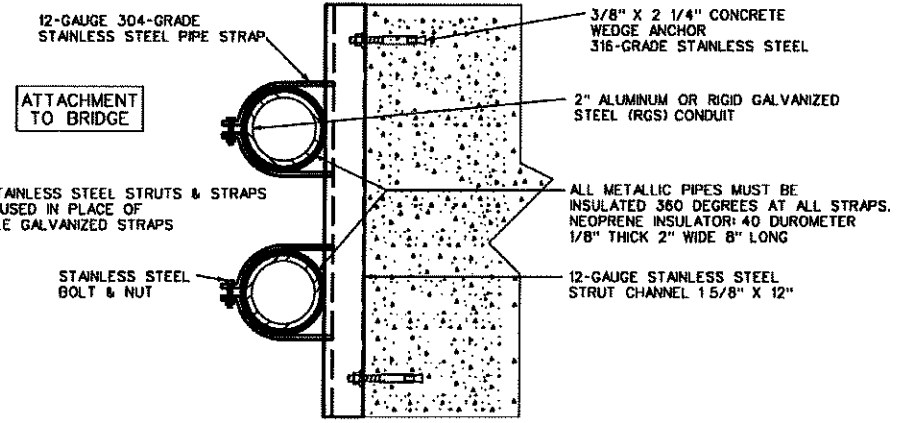
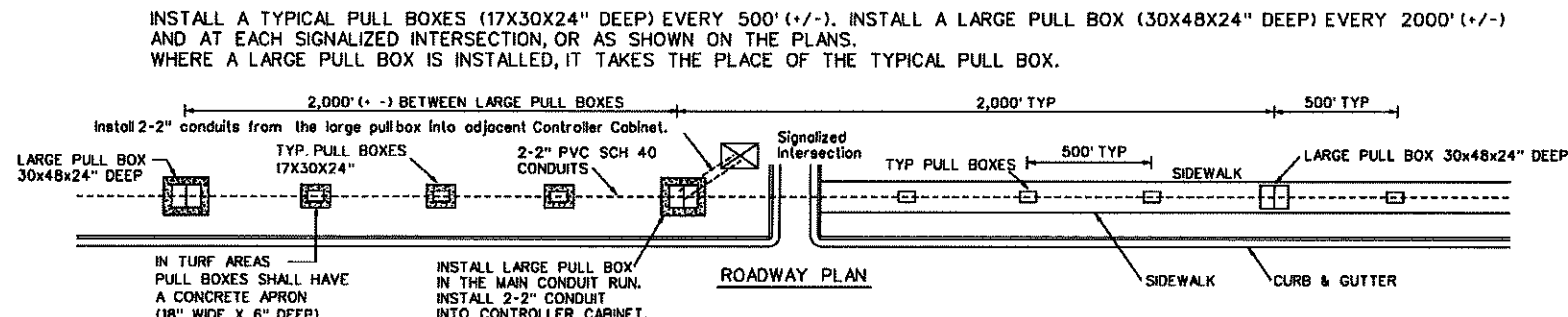


WARNING
BURIED
SIGNAL
CABLE
BEFORE DIGGING
IN THIS AREA
CALL
P B COUNTY
TRAFFIC DIV.
561 233-3900

INSTALL A TYPICAL PULL BOXES (17X30X24" DEEP) EVERY 500' (+/-). INSTALL A LARGE PULL BOX (30X48X24" DEEP) EVERY 2000' (+/-)
AND AT EACH SIGNALIZED INTERSECTION, OR AS SHOWN ON THE PLANS.
WHERE A LARGE PULL BOX IS INSTALLED, IT TAKES THE PLACE OF THE TYPICAL PULL BOX.

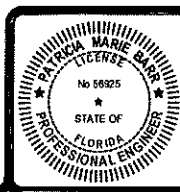


PULL BOX MATERIAL: FIBERGLASS REINFORCED POLYMER CONCRETE
LOAD SPECIFICATION: MIN. TIER 15 (20K-22K) EXCEPT IN ROADWAY USE AASHTO H-20.
LID STAMPED: "PBC TRAFFIC ITS". LID TYPE: TWO PANEL WITH TWO PULL SLOTS EACH



NOTES:

- Typical (T-14) for applications not covered in this typical the contractor shall refer to the FDOT Standards Specifications 630 for Road and Bridge Construction.
- Pull Boxes and Lids in sidewalks and turf areas shall be a minimum TIER 15 (20K-22K). In vehicular traffic areas (in the roadway) pull boxes shall be AASHTO H-20. Pull Box Lid shall be stamped "PBC TRAFFIC ITS". Large Pull Box Lids (30x48") shall have two panels with two pulling slots in each panel.
- Underground Conduits and Sweeps shall be gray-electrical grade 2" PVC SCH 40 or HDPE SDR 11. Install conduits 36" below grade. Ends of conduit shall be sealed with water resistance duct seal.
- One run of conduit between pull boxes shall not contain more than four (4) 90 degree bends (360 degrees) including pull box bends.
- Signalized Intersections, install two-2" PVC SCH. 40 conduits from the large pullbox into the traffic controller cabinet.
- Locate Wire, install a 14 AWG insulated THWN strand copper wire (locate wire) in one conduit and a polypropylene pullcord in the other conduit(s). The locate wire, pullcord, warning tape, and guide post shall be included in the cost of the conduits.
- Concrete Apron, all pull boxes shall be provided with concrete aprons when not located within sidewalk. Aprons shall be 18" wide x 6" thick sloped 1/4" per 1' away from pull box. Apron shall be Min. 2,500 PSI non structural Class I concrete. The cost of the apron is to be included in the cost to furnish and install pull box.
- Pedestrian Ramp, pull box shall not be placed in a pedestrian ramp or stopped area of a pedestrian ramp.
- Conduits in Pull Box shall be extended up 5" to 6" from the bottom of the pull box.
- Bridge Attachment, when attaching conduits to bridge, wrap neoprene (rubber) gasket completely around galvanized or aluminum IMC conduit at each pipe strap to insulate conduit from pipe strap. Size of neoprene (rubber) insulator: 1/8" thick x 2" wide x 8" long.
- Warning Tape: 3" wide, 6 mil thick, intended for burial and use as an underground utility warning notice, marked 'CAUTION BURIED FIBER OPTIC'. Tape shall be orange with black 2" high block letters on non color fading material. The marking tape shall be buried 24" below grade in the conduit trench from pullbox to pullbox. Cost included in cost of conduits.
- Warning Labels, Palm Beach County Traffic Engineering, 2300 N Jog Rd, Tel.: 561-681-4326 will supply the Contractor with two warning label for each route marker.
- PBC Engineer may request two or more 2" conduits as needed.



PATRICIA MARIE BARR, P.E., STATE OF FLORIDA,
PROFESSIONAL ENGINEER, LICENSE NO. 56925

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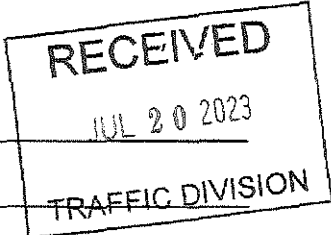
SIMMONS & WHITE
ENGINEERING & PLANNING & CONSULTING SINCE 1892
2581 Metrocentre Blvd West of Sullis in West Palm Beach, Florida 33407 • (561) 478-7848

DESIGN T.B.	DRAWN C.O.	CHECKED A.L.	APPROVED R.R.	DATE
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LANTERN DRIVE/47TH PLACE
AT LYONS ROAD
P.B.C. PROJECT #2022702
P.B.C. INTERSECTION #39795
SIGNAL DETAILS

JOB NO. 22-082	DRAWING NO. 22082T08	SHEET T-8	OF T-8
-------------------	-------------------------	--------------	-----------

PUBLIC CONSTRUCTION BOND



BOND NUMBER: 0253895
BOND AMOUNT: \$371,977.92
CONTRACT AMOUNT: \$371,977.92

CONTRACTOR'S NAME: Gerelco Traffic Controls, Inc.
CONTRACTOR'S ADDRESS: 560 N.W. Enterprise Drive
Port Saint Lucie, FL 34986
CONTRACTOR'S PHONE: (772) 340-7474

SURETY COMPANY: Berkley Insurance Company
SURETY ADDRESS: 475 Steamboat Road
Greenwich, CT 06830
SURETY PHONE: (203) 542-3800

OWNER'S NAME: Palm Beach County
OWNER'S ADDRESS: 2300 North Jog Road, Suite 3W-33
West Palm Beach, FL 33411-2745
OWNER'S PHONE: 561-684-4150

PROJECT NO.: 2022052-2022702
DESCRIPTION OF WORK: Furnish & Install Mast Arms at Lantern Drive/47th Place and Lyons
Road, ID #39795

PROJECT LOCATION: Lantern Drive/47th Place and Lyons Road, ID #39795
LEGAL DESCRIPTION: No legal description is available. The best description available is
as indicated on the Project Location above.

PUBLIC CONSTRUCTION BOND

This Bond is issued in favor of the County conditioned on the full and faithful performance of the Contract.

KNOW ALL MEN BY THESE PRESENTS: that Contractor (Principal) and Surety, are held and firmly bound unto:

Palm Beach County Board of County Commissioners
301 N. Olive Avenue
West Palm Beach, Florida 33401

As Obligee, herein called County, for the use and benefit of claimant as herein below defined, in the amount of:
Three Hundred Seventy-One Thousand Nine Hundred Seventy-Seven and 92/100 Dollars
\$ 371,977.92

for the payment whereof Principal and Surety bind themselves, their heirs, personal representatives, executors, administrators, successors and assigns, jointly and severally, firmly by these presents.

WHEREAS, Principal has by written agreement dated _____, 20____, entered into a Contract with the County for:

Project Name: Furnish & Install Mast Arms at Lantern Drive/47th Place and Lyons Road, ID #39795
Project No.: 2022052-2022702
Project Description: Furnish & Install Mast Arms at Lantern Drive/47th Place and Lyons Road, ID #39795
Project Location: Lantern Drive/47th Place and Lyons Road, ID #39795

in accordance with Design Criteria Drawings and Specifications prepared by:

Name of Engineering/Architectural Firm: TBD
Location of Firm: TBD
Phone: TBD
Fax : TBD

which Contract is by reference made a part hereof in its entirety, and is hereinafter referred to as the Contract.

THE CONDITION OF THIS BOND is that if Principal:

1. Performs the Contract dated _____ between Principal and County for the construction of the project as described above, the Contract being made part of this bond by reference, at the times and in the manner prescribed in the Contract; and
2. Promptly makes payments to all claimants, as defined in Section 255.05, Florida Statutes, supplying Principal with labor, Materials, or supplies, used directly or indirectly by Principal in the prosecution of the Work provided for in the Contract; and
3. Pays County all losses, damages (including liquidated damages), expenses, costs, and attorney’s fees, including appellate proceedings, that County sustains because of a default by Principal under the Contract; and
4. Performs the guarantee of all Work and Materials furnished under the Contract for the time specified in the Contract, then this bond is void; otherwise it remains in full force.

PUBLIC CONSTRUCTION BOND

- 5. Any changes in or under the Contract Documents and compliance or noncompliance with any formalities connected with the Contract or the changes does not affect Surety's obligation under this bond and Surety waives notice of such changes.
- 6. The amount of this bond shall be reduced by and to the extent of any payment or payments made in good faith hereunder, inclusive of the payment by Surety of construction liens which may be filed of record against said improvement, whether or not Claim for the amount of such lien be presented under and against the bond.
- 7. Principal and Surety expressly acknowledge that any and all provisions relating to consequential, Delay and liquidated damages contained in the Contract are expressly covered by and made a part of this Performance, Labor and Material Payment Bond. Principal and Surety acknowledge that any such provisions lie within their obligations and within the policy coverages and limitations of this instrument.
- 8. Section 255.05, Florida Statutes, as amended, together with all notice and time provisions contained therein, is incorporated herein, by reference, in its entirety. Any action instituted by a claimant under this bond for payment must be in accordance with the notice and time limitation provisions in Section 255.05(2), Florida Statutes. This instrument regardless of its form, shall be construed and deemed a statutory bond issued in accordance with Section 255.05, Florida Statutes.
- 9. Any action brought under this instrument shall be brought in the state court of competent jurisdiction in Palm Beach County and not elsewhere.

ATTEST:

O'Heara D.R.
 (Signature)

Gerelco Traffic Controls, Inc.
 (Seal)

O'Heara Lilly
 (Print Name)

Contract & Compliance Admin
 (Title)

By: *J. P. [Signature]*
 (Principal) *James Ridinger*
Vice President

ATTEST:

Rita Lazarides
 (Signature)

Berkley Insurance Company
 (Seal)

Rita Lazarides
 (Print Name)

Witness
 (Title)

By: *Brett Rosenhaus*
 (Surety) Brett Rosenhaus
 Attorney-in-Fact
 & FL Licensed Agent

PUBLIC CONSTRUCTION BOND

DESCRIPTION OF WORK: Furnish & Install Mast Arms at Lantern Drive/47th Place and Lyons Road, ID #39795
Project No. 2022052-2022702

PROJECT LOCATION: Lantern Drive/47th Place and Lyons Road, ID #39795

SURETY COMPANY: Berkley Insurance Company

SURETY ADDRESS: 475 Steamboat Road
Greenwich, CT 06830

SURETY PHONE: (203) 542-3800

BOND NUMBER: 0253895

BOND AMOUNT: \$371,977.92

CONTRACT AMOUNT: \$371,977.92

As the Surety Company for Gerelco Traffic Controls, Inc. we have executed the captioned bond. Because the Contract date is unknown, we have left the bond(s) undated. As a duly authorized Attorney-in-Fact for the Surety, Berkley Insurance Company, permission is hereby granted to Palm Beach County to fill in the Contract date on the bond(s) and power of attorney when that date is known. Also, the "signed and sealed" date on the bond(s) should be completed.

POWER OF ATTORNEY
BERKLEY INSURANCE COMPANY
WILMINGTON, DELAWARE

NOTICE: The warning found elsewhere in this Power of Attorney affects the validity thereof. Please review carefully.

KNOW ALL MEN BY THESE PRESENTS, that BERKLEY INSURANCE COMPANY (the "Company"), a corporation duly organized and existing under the laws of the State of Delaware, having its principal office in Greenwich, CT, has made, constituted and appointed, and does by these presents make, constitute and appoint: Brett Rosenhaus or Dale A. Belis of Acrisure, LLC dba Nielson, Rosenhaus & Associates of Delray Beach, FL its true and lawful Attorney-in-Fact, to sign its name as surety only as delineated below and to execute, seal, acknowledge and deliver any and all bonds and undertakings, with the exception of Financial Guaranty Insurance, providing that no single obligation shall exceed One Hundred Million and 00/100 U.S. Dollars (U.S.\$100,000,000.00), to the same extent as if such bonds had been duly executed and acknowledged by the regularly elected officers of the Company at its principal office in their own proper persons.

This Power of Attorney shall be construed and enforced in accordance with, and governed by, the laws of the State of Delaware, without giving effect to the principles of conflicts of laws thereof. This Power of Attorney is granted pursuant to the following resolutions which were duly and validly adopted at a meeting of the Board of Directors of the Company held on January 25, 2010:

RESOLVED, that, with respect to the Surety business written by Berkley Surety, the Chairman of the Board, Chief Executive Officer, President or any Vice President of the Company, in conjunction with the Secretary or any Assistant Secretary are hereby authorized to execute powers of attorney authorizing and qualifying the attorney-in-fact named therein to execute bonds, undertakings, recognizances, or other suretyship obligations on behalf of the Company, and to affix the corporate seal of the Company to powers of attorney executed pursuant hereto; and said officers may remove any such attorney-in-fact and revoke any power of attorney previously granted; and further

RESOLVED, that such power of attorney limits the acts of those named therein to the bonds, undertakings, recognizances, or other suretyship obligations specifically named therein, and they have no authority to bind the Company except in the manner and to the extent therein stated; and further

RESOLVED, that such power of attorney revokes all previous powers issued on behalf of the attorney-in-fact named; and further

RESOLVED, that the signature of any authorized officer and the seal of the Company may be affixed by facsimile to any power of attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligation of the Company; and such signature and seal when so used shall have the same force and effect as though manually affixed. The Company may continue to use for the purposes herein stated the facsimile signature of any person or persons who shall have been such officer or officers of the Company, notwithstanding the fact that they may have ceased to be such at the time when such instruments shall be issued.

IN WITNESS WHEREOF, the Company has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this 14th day of November, 2019.

Attest:
By Ira S. Lederman
Executive Vice President & Secretary

Berkley Insurance Company
By Jeffrey M. Hafter
Senior Vice President

WARNING: THIS POWER INVALID IF NOT PRINTED ON BLUE "BERKLEY" SECURITY PAPER.

STATE OF CONNECTICUT)
) ss:
COUNTY OF FAIRFIELD)

Sworn to before me, a Notary Public in the State of Connecticut, this 14th day of November, 2019, by Ira S. Lederman and Jeffrey M. Hafter who are sworn to me to be the Executive Vice President and Secretary, and the Senior Vice President, respectively, of Berkley Insurance Company.

MARIA C RUNDBAKEN
NOTARY PUBLIC
CONNECTICUT
MY COMMISSION EXPIRES
APRIL 30, 2024

[Signature of Maria C Rundbaken]
Notary Public, State of Connecticut

CERTIFICATE

I, the undersigned, Assistant Secretary of BERKLEY INSURANCE COMPANY, DO HEREBY CERTIFY that the foregoing is a true, correct and complete copy of the original Power of Attorney; that said Power of Attorney has not been revoked or rescinded and that the authority of the Attorney-in-Fact set forth therein, who executed the bond or undertaking to which this Power of Attorney is attached, is in full force and effect as of this date.

Given under my hand and seal of the Company, this [Signature] day of [Signature]

(Seal) Vincent P. Forte

WARNING - Any unauthorized reproduction or alteration of this document is prohibited. This power of attorney is void unless seals are readable and the certification seal at the bottom is embossed. The background imprint, warning and verification instructions (on reverse) must be in blue ink.

FORM OF GUARANTEE

BOND NO. 0253895

GUARANTEE FOR (Contractor and Surety Name) Gerelco Traffic Controls, Inc. (Contractor) and Berkley Insurance Company (Surety)

We the undersigned hereby guarantee that the Furnish & Install Mast Arms at Lantern Drive/47th Place and Lyons Road, ID #39795 (Project), Project Number 2022052-2022702, Palm Beach County, Florida, which we have constructed and bonded, has been done in accordance with the plans and specifications; that the work constructed will fulfill the requirements of the guaranties included in the Contract Documents. We agree to repair or replace any or all of our work, together with any work of others which may be damaged in so doing, that may prove to be defective in the workmanship or materials within the warranty period of one year from the date of Final Completion of all the above named work by the County of Palm Beach, State of Florida, without any expense whatsoever to said County of Palm Beach, ordinary wear and tear and unusual abuse or neglect excepted by the County. When correction work is started, it shall be carried through to completion.

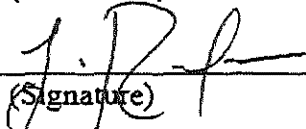
In the event of our failure to acknowledge notice, and commence corrections of defective work within five (5) calendar days after being notified in writing by the Board of County Commissioners, Palm Beach County, Florida, we, collectively or separately, do hereby authorize Palm Beach County to proceed to have said defects repaired and made good at our expense and we will honor and pay the costs and charges therefore upon demand.

County and (contractor, engineer, architect as applicable) agree that the provisions of Florida Statute Chapter 558 shall not apply to this contract.

Dated _____
(notice of completion filing date)

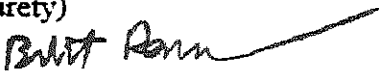
SEAL AND NOTARIAL ACKNOWLEDGEMENT OF SURETY

Gerelco Traffic Controls, Inc. (Seal)
(Contractor)

By: 
(Signature)

Jake Bidinger Vice President
(Printed Name and Title)

Berkley Insurance Company (Seal)
(Surety)

By: 
(Signature)

Brett Rosenhaus, Attorney-in-Fact & FL Licensed Agent
(Printed Name and Title)

POWER OF ATTORNEY
BERKLEY INSURANCE COMPANY
WILMINGTON, DELAWARE

NOTICE: The warning found elsewhere in this Power of Attorney affects the validity thereof. Please review carefully.

KNOW ALL MEN BY THESE PRESENTS, that BERKLEY INSURANCE COMPANY (the "Company"), a corporation duly organized and existing under the laws of the State of Delaware, having its principal office in Greenwich, CT, has made, constituted and appointed, and does by these presents make, constitute and appoint: *Brett Rosenhaus or Dale A. Belis of Acrisure, LLC dba Nielson, Rosenhaus & Associates of Delray Beach, FL* its true and lawful Attorney-in-Fact, to sign its name as surety only as delineated below and to execute, seal, acknowledge and deliver any and all bonds and undertakings, with the exception of Financial Guaranty Insurance, providing that no single obligation shall exceed One Hundred Million and 00/100 U.S. Dollars (U.S.\$100,000,000.00), to the same extent as if such bonds had been duly executed and acknowledged by the regularly elected officers of the Company at its principal office in their own proper persons.

This Power of Attorney shall be construed and enforced in accordance with, and governed by, the laws of the State of Delaware, without giving effect to the principles of conflicts of laws thereof. This Power of Attorney is granted pursuant to the following resolutions which were duly and validly adopted at a meeting of the Board of Directors of the Company held on January 25, 2010:

RESOLVED, that, with respect to the Surety business written by Berkley Surety, the Chairman of the Board, Chief Executive Officer, President or any Vice President of the Company, in conjunction with the Secretary or any Assistant Secretary are hereby authorized to execute powers of attorney authorizing and qualifying the attorney-in-fact named therein to execute bonds, undertakings, recognizances, or other suretyship obligations on behalf of the Company, and to affix the corporate seal of the Company to powers of attorney executed pursuant hereto; and said officers may remove any such attorney-in-fact and revoke any power of attorney previously granted; and further

RESOLVED, that such power of attorney limits the acts of those named therein to the bonds, undertakings, recognizances, or other suretyship obligations specifically named therein, and they have no authority to bind the Company except in the manner and to the extent therein stated; and further

RESOLVED, that such power of attorney revokes all previous powers issued on behalf of the attorney-in-fact named; and further

RESOLVED, that the signature of any authorized officer and the seal of the Company may be affixed by facsimile to any power of attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligation of the Company; and such signature and seal when so used shall have the same force and effect as though manually affixed. The Company may continue to use for the purposes herein stated the facsimile signature of any person or persons who shall have been such officer or officers of the Company, notwithstanding the fact that they may have ceased to be such at the time when such instruments shall be issued.

IN WITNESS WHEREOF, the Company has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this 14th day of November, 2019.

Attest:

Berkley Insurance Company

(Seal)

By Ira S. Lederman
Executive Vice President & Secretary

By Jeffrey M. Hafter
Senior Vice President

WARNING: THIS POWER INVALID IF NOT PRINTED ON BLUE "BERKLEY" SECURITY PAPER.

STATE OF CONNECTICUT)
) ss:
COUNTY OF FAIRFIELD)

Sworn to before me, a Notary Public in the State of Connecticut, this 14th day of November, 2019, by Ira S. Lederman and Jeffrey M. Hafter who are sworn to me to be the Executive Vice President and Secretary, and the Senior Vice President, respectively, of Berkley Insurance Company.

MARIA C. RUNDBAKEN
NOTARY PUBLIC
CONNECTICUT
MY COMMISSION EXPIRES
APRIL 30, 2024

Maria C. Rundbaken
Notary Public, State of Connecticut

CERTIFICATE

I, the undersigned, Assistant Secretary of BERKLEY INSURANCE COMPANY, DO HEREBY CERTIFY that the foregoing is a true, correct and complete copy of the original Power of Attorney; that said Power of Attorney has not been revoked or rescinded and that the authority of the Attorney-in-Fact set forth therein, who executed the bond or undertaking to which this Power of Attorney is attached, is in full force and effect as of this date.

Given under my hand and seal of the Company, this _____ day of _____

(Seal)

Vincent P. Forte
Vincent P. Forte

WARNING -- Any unauthorized reproduction or alteration of this document is prohibited. This power of attorney is void unless seals are readable and the certification seal at the bottom is embossed. The background imprint, warning and verification instructions (on reverse) must be in blue ink.



Office of
Equal Business Opportunity
 50 South Military Trail, Suite 202
 West Palm Beach, FL 33415
 (561) 616-6840
 www.pbcgov.com/oebo



**Palm Beach County
 Board of County
 Commissioners**

- Robert S. Weinroth, Mayor
- Gregg K. Weiss, Vice Mayor
- Maria G. Marino
- Dave Kerner
- Maria Sachs
- Melissa McKinlay
- Mack Bernard

County Administrator
 Verdenia C. Baker

"An Equal Opportunity
 Affirmative Action Employer"

Official Electronic Letterhead

INTER-OFFICE MEMORANDUM

Date: Thursday, January 20, 2022

To: David L. Ricks, County Engineer
 Engineering and Public Works

From: Tonya Davis Johnson, Director *T. Johnson*
 Office of Equal Business Opportunity

Re: Approval of Request for Waiver of API Requirements for
 Annual Traffic Signal Construction Contract Palm Beach
 County Project #2022052

Your Request for Waiver of API Requirements for the above named project was received on Thursday, January 06, 2022 and has been reviewed. It is the determination of the Office of Equal Business Opportunity (OEBO) that the request for Waiver of API Requirements is **APPROVED**.

The OEBO is granting this waiver based upon the determination that sufficient qualified S/M/WBEs providing the goods or services required by the contract are unavailable in Palm Beach County despite every reasonable attempt to locate them.

If you have any questions, please contact Allen Gray at 561-616-6842 or email at agray@pcgov.org.

Thank you.

cc: Allen Gray, Manager