Agenda Item #3-C-2

PALM BEACH COUNTY
BOARD OF COUNTY COMMISSIONERS
AGENDA ITEM SUMMARY

Meeting Date:	**August 25, 2026**	**[X] Consent**	**[ ] Regular**
		[ ] Ordinance	**[ ] Public Hearing**

Department: **Engineering and Public Works**
Submitted For: **Traffic Division**

I. EXECUTIVE BRIEF

Motion and Title: Staff recommends motion to approve: Work Order G-7 in an amount not to exceed $682,415.92 to the Traffic Signal Continuing Services Construction Contract (Contract) dated August 19, 2025 (R2025-1042), with Gerelco Traffic Controls, Inc. (Gerelco) to construct a mast arm traffic signal at the intersection of Australian Avenue and 42nd Street, Palm Beach County (County) Intersection ID Number 23550 (Project).

Summary: Approval of this Work Order will allow Gerelco to construct the Project. 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 and including this Work Order, $3,802,106 of the Gerelco not to exceed Contract amount of $10,000,000 have been spent or encumbered. On August 19, 2025, the BCC approved the Contract with Gerelco to provide for and install various signal components for traffic control devices. This Project was presented to the Goal Setting Committee (GSC) on November 20, 2024, and the GSC established the following Affirmative Procurement Initiative (API): a Small Business Enterprise (SBE) Price Preference. Gerelco committed to 0% SBE participation for the life of the Contract. For this Work Order, the proposed SBE participation is 0%. To date, the overall SBE participation achieved on this contract is 0%. Gerelco has an office located in the County. District 7 (YBH)

Background and Justification: The County requests Gerelco construct the Project in accordance with the Work Order. The construction cost is not to exceed $682,415.92 including a contingency of $113,736. The Engineering and Public Works Department recommends BCC approval.

Attachments:
1. Location Map
2. Work Order with Exhibit A

Recommended By: _____ 7/16/2026
YBH/TEL
County Engineer **Date**

Approved By: _____ 8/13/26
Chief Deputy County Administrator **Date**

II. FISCAL IMPACT ANALYSIS

A. Five Year Summary of Fiscal Impact:

Fiscal Years	2026	2027	2028	2029	2030
Capital Expenditures	$ 682,416	-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	$ 682,416	-0-	-0-	-0-	-0-
# ADDITIONAL FTE POSITIONS (Cumulative)	-0-	-0-	-0-	-0-	-0-

Is Item Included in Current Budget? Yes ☑ No ☐
Is this item using Federal Funds? Yes ☐ No ☑
Is this item using State Funds? Yes ☐ No ☑
Budget Account No:
Fund 3502 **Dept** 361 **Unit** 1658 **Object** 6408

Recommended Sources of Funds/Summary of Fiscal Impact:
Road Impact Fee Zone 2/ Austrailian Ave. from Banyan Blvd to 45th St

WO#G-7

Construction Contract	$ 568,679.93
Contingency	$ 113,735.99
Fiscal Impact	**$ 682,415.92**

Impact Fee Description: This work order for the Australian Avenue from Banyan Blvd to 45th Street Drainage Improvement project is for the installation of a new traffic signal at the intersection of 42nd Street and Australian Avenue in advance of the overall project construction, providing improved access management to better manage increased capacity along the roadway. The project will add new paved shoulder and curbs to both sides of the roadway, lengthen turn-lanes, provide new mast arm traffic signals and pedestrian crossings at several intersections, will close certain median openings to provide improved access management along additional roadway capacity needed to serve new development within Impact Fee Zone 2. The use of Impact Fees is in Accordance with Article 13, Chapter H, Section 4 of the ULDC.

C. Departmental Fiscal Review: Danny Rancourt

III. REVIEW COMMENTS

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

7/29/2026
OFMB 7/29/26 7/29

Contract Dev. and Control 7/6/26 8.6.26

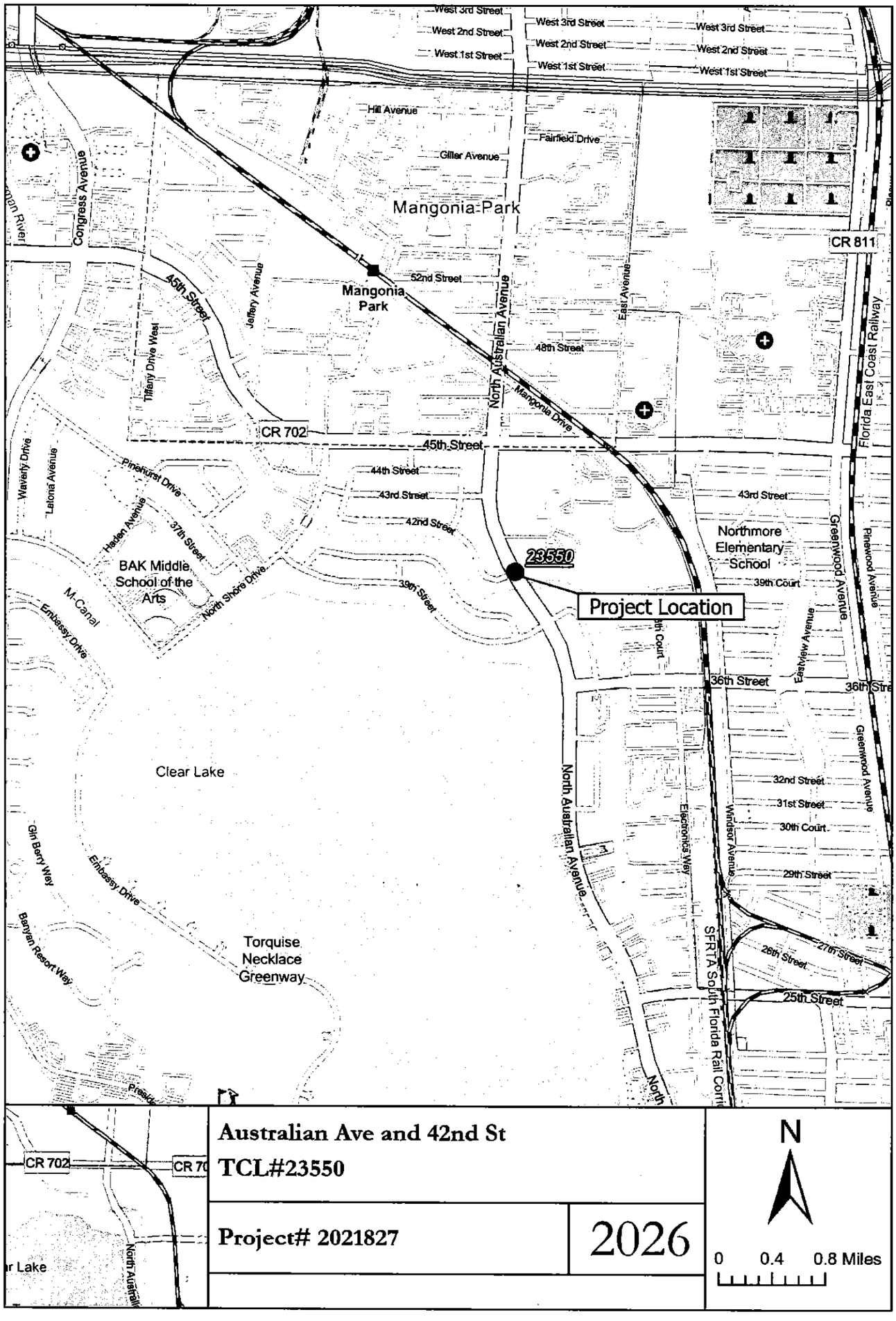
B. Approved as to Form and Legal Sufficiency:

7/7/26
Assistant County Attorney

C. Other Department Review:

Department Director

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


West 3rd Street
West 2nd Street
West 1st Street
Hill Avenue
Fairfield Drive
Giller Avenue
Congress Avenue
Mangonia Park
CR 811
52nd Street
Mangonia Park
45th Street
Jeffery Avenue
Tiffany Drive West
East Avenue
48th Street
North Australian Avenue
Florida East Coast Railway
CR 702
45th Street
Mangonia Drive
Waverly Drive
Latonia Avenue
Pinehurst Drive
44th Street
43rd Street
42nd Street
Haden Avenue
37th Street
BAK Middle School of the Arts
North Shore Drive
39th Street
23550
Project Location
Northmore Elementary School
39th Court
Greenwood Avenue
Pinewood Avenue
M-Canal
Embassy Drive
8th Court
Eastview Avenue
36th Street
Clear Lake
32nd Street
31st Street
30th Court
29th Street
Electronics Way
Windsor Avenue
Glin Berry Way
Banyan Resort Way
Torquise Necklace Greenway
28th Street
27th Street
25th Street
SFRTA South Florida Rail Corridor
CR 702
North Australian Ave
Australian Ave and 42nd St
TCL#23550
Project# 2021827
2026
N
0 0.4 0.8 Miles

WORK ORDER TO THE ANNUAL TRAFFIC SIGNAL CONTRACT (R2025-1042) BETWEEN PALM BEACH COUNTY AND GERELCO TRAFFIC CONTROLS, INC. TO CONSTRUCT A MAST ARM TRAFFIC SIGNAL AT THE INTERSECTION OF AUSTRALIAN AVENUE AND 42ND STREET, PALM BEACH COUNTY INTERSECTION ID NUMBER 23550, SIGNAL PROJECT NUMBER 2021-827, PALM BEACH COUNTY, FLORIDA

THIS WORK ORDER TO THE ANNUAL TRAFFIC SIGNAL CONTRACT DATED AUGUST 19, 2025 (R2025-1042), is made and entered into this 26th day of August, 2026, 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 19, 2025, **COUNTY** and **CONTRACTOR** entered into an Annual Contract (**R2025-1042**) (**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 Australian Ave and 42nd St, Palm Beach County Intersection ID Number 23550, (**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 $682,415.92 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.**
3. **COUNTY** agrees to pay the **CONTRACTOR** a fee not to exceed $682,415.92 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:_____
Sara Baxter, Mayor

ATTEST:
Michael A. Caruso
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
President

CORPORATE SEAL

WITNESS:

BY:_____
O'teaka Lilly
(Printed Name)

BY:_____
CeCelia Williams
(Printed Name)

PALM BEACH COUNTY ENGINEERING & PUBLIC WORKS
TRAFFIC DIVISION WORK ORDER / ANNUAL CONTRACT R2025-1042

PROJECT NAME: Australian Ave and 42nd St
(PBC Intersection 23550)
BUDGET LINE ITEM:
KDO NUMBER:
PBC ENGINEERING ANNUAL SIGNAL CONTRACT NUMBER: R2025-1042
PBC ENGINEERING PROJECT NUMBER: 2021-827
PBC TRAFFIC DIVISION SIGNAL PROJECT NUMBER: NA
WORK ORDER NUMBER: G-7
DATE:_____ COMMISSION DISTRICT: 7

TO: Jake Ridinger Gerelco Traffic Controls, Inc.

In accordance with the terms of your contract dated August 19, 2025, 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 05/22/2026.

The above work shall be performed at: Australian Ave and 42nd St (PBC Intersection 23550).
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 $682,415.92, which includes $113,735.99 contingency (see attached Bidtab for quantities). The Office of Equal Business Opportunity API Requirements are SBE price perference.

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

May Cheng, P.E.	Principal Professional Engineer	(561) 684-4030
Name	Title	Telephone

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

	President	772.340.7474
Name Jake Ridinger	Title	Telephone

Please sign below and submit with the 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 #2025054

DATE: 5/22/2026 **SIGNAL PROJECT #:** 2021-827

INTERSECTION: 42ND ST and AUSTRALIAN AVE- NEW SIGNAL

INTERSECTION ID.# 23550

ITEM NO.#	PRODUCT NAME	QTY	PRICE	LINE TOTAL
630-2-11-2	2" PVC (SCH 40) UNDERGROUND CONDUIT - [LF] [F&I]	300	$14.00	$4,200.00
630-2-12-2-3	3-2" (HDPE SDR 11) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) - [LF] [F&I]	120	$44.00	$5,280.00
630-2-12-2-4	4-2" (HDPE SDR 11) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) - [LF] [F&I]	200	$49.00	$9,800.00
630-2-12-2-5	5-2" (HDPE SDR 11) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) - [LF] [F&I]	307	$60.00	$18,420.00
630-2-14-1	1" RIGID CONDUIT HOT DIPPED GALVANIZED CONDUIT SURFACE MOUNTED - [LF] [F&I]	50	$38.00	$1,900.00
632-7-1-19D	SIGNAL CABLE (SPAN LENGTH 451' - 550') - [PI] [F&I]	1	$9,000.00	$9,000.00
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]	732	$6.25	$4,575.00
632-7-1-7A	PEDESTRIAN SIGNAL CABLE - 7 CONDUCTOR - [PI] [F&I]	1	$8,500.00	$8,500.00
635-2-12-A	PULL BOX (17" x 30" x 12"D) HEAVY DUTY COVERS (TIER 22) - [EA] [F&I]	20	$2,850.00	$57,000.00
635-2-12-C	PULL BOX (30" x 48" x 24"D) HEAVY DUTY SPLIT COVERS (ITS) (TIER 22) - [EA] [F&I]	1	$5,230.00	$5,230.00
639-1-121	ELECTRICAL POWER SERVICE WITH METER BASE (UNDERGROUND) METER FURNISHED BY POWER COMPANY - [AS] [F&I]	1	$3,500.00	$3,500.00
639-2-1-3	ELECTRICAL SERVICE WIRE (SINGLE PHASE 3-WIRE, TRIPLEX) - [LF] [F&I]	100	$9.90	$990.00
639-3-11	ELECTRICAL SERVICE DISCONNECT (BREAKER BOX, SHEET T 6.2 OF PBC STANDARDS) - [EA] [F&I]	1	$3,000.00	$3,000.00
641-2-12-16	PRESTRESSED CONCRETE POLE (16' TYPE P-II) - [EA] [F&I]	1	$3,500.00	$3,500.00
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL WITH TRANSFORMER BASE (8 FEET ABOVE GROUND) - [EA] [F&I]	5	$1,767.00	$8,835.00

DATE: 5/22/2026 **SIGNAL PROJECT #:** 2021-827

INTERSECTION: 42ND ST and AUSTRALIAN AVE- NEW SIGNAL

INTERSECTION ID.# 23550

ITEM NO.#	PRODUCT NAME	QTY	PRICE	LINE TOTAL
649-2-12-45	DRILLED SHAFT FOUNDATION ASSEMBLY, 12' DEEP AND 4.5' DIAMETER, FURNISH AND INSTALL (DS/12/4.5) - [EA] [F&I]	1	$26,455.00	$26,455.00
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	$27,654.00	$27,654.00
649-2-16-45	DRILLED SHAFT FOUNDATION ASSEMBLY, 16' DEEP AND 4.5' DIAMETER, FURNISH AND INSTALL (DS/16/4.5) - [EA] [F&I]	1	$30,000.00	$30,000.00
649-2-16-50	DRILLED SHAFT FOUNDATION ASSEMBLY, 16' DEEP AND 5.0' DIAMETER, FURNISH AND INSTALL (DS/16/5.0) - [EA] [F&I]	1	$30,000.00	$30,000.00
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]	1	$48,500.00	$48,500.00
649-22-1L	MAST ARM ASSEMBLY WITH STREET LIGHT, FURNISH AND INSTALL ON EXISTING FOUNDATION, SINGLE ARM 30' (A30/S-P1/S/L) - [EA] [F&I]	1	$33,500.00	$33,500.00
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]	2	$46,500.00	$93,000.00
650-1-13	TRAFFIC SIGNAL HEAD ALUMINUM (3-SECTION, 1-WAY) INCLUDES BACKPLATES - [AS] [F&I]	8	$2,150.00	$17,200.00
650-1-14	TRAFFIC SIGNAL HEAD ALUMINUM (4-SECTION, 1-WAY) INCLUDES BACKPLATES - [AS] [F&I]	2	$2,500.00	$5,000.00
653-191	PEDESTRIAN SIGNAL - COUNT DOWN (1-WAY) ALUMINUM - [EA] [F&I]	4	$1,300.00	$5,200.00
653-192	PEDESTRIAN SIGNAL - COUNT DOWN (2-WAY) ALUMINUM - [EA] [F&I]	1	$2,600.00	$2,600.00
660-2-106-B	LOOP ASSEMBLY (TYPE F - 46'). - [EA] [F&I]	9	$4,850.00	$43,650.00
665-1-11	PEDESTRIAN DETECTOR (PUSH BUTTON) - [EA] [F&I]	6	$300.00	$1,800.00
670-5-310-A	TRAFFIC CONTROLLER ASSEMBLY (TYPE 6 - INSTALL ONLY) - [AS] [I]	1	$12,500.00	$12,500.00
715-1-12	CONDUCTOR (NO. 8 TO NO. 6) - [LF] [F&I]	1600	$6.00	$9,600.00
715-5-32	LUMINAIRE AND BRACKET ARM - GALV STEEL - [EA] [F&I]	4	$2,500.00	$10,000.00
700-5-21-LED-MA	INTERNALLY ILLUMINATED SIGN (6') LED FOR MAST ARM [F&I]	2	$5,275.00	$10,550.00
700-5-22-LED-MA	INTERNALLY ILLUMINATED SIGN (8') LED FOR MAST ARM [F&I]	2	$5,980.00	$11,960.00
*633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND,2-12 FIBERS	250	$4.82	$1,205.00

DATE: 5/22/2026 **SIGNAL PROJECT #:** 2021-827

INTERSECTION: 42ND ST and AUSTRALIAN AVE- NEW SIGNAL

INTERSECTION ID.# 23550

ITEM NO.#	PRODUCT NAME	QTY	PRICE	LINE TOTAL
*633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	1	$75.93	$75.93

TOTAL : $568,679.93

Comments:

Bid Tab = $568,679.93
Contingency 20% = $113,735.99
Grand Total = $682,415.92

Note: MOT is included in the unit prices.
* Items are not in the original contract bid list. These items are approved for this task only.

GRAND TOTAL (Not To Exceed): $682,415.92

COUNTY OF PALM BEACH
STATE OF FLORIDA

AUSTRALIAN AVENUE

(25TH STREET TO 45TH STREET)

PROJECT No. 2021827 PHASE II

SIGNALIZATION PLANS

BOARD OF COUNTY COMMISSIONERS

MARIA G. MARINO
DISTRICT 1

GREGG K. WEISS
DISTRICT 2

JOEL G. FLORES
DISTRICT 3

MARCI WOODWARD
DISTRICT 4

MARIA SACHS
DISTRICT 5

SARA BAXTER
DISTRICT 6

BOBBY POWELL JR.
DISTRICT 7

INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	COVER SHEET
T-2	SIGNATURE SHEET
T-3, 4	TABULATIONS OF QUANTITIES
T-5, 6	SIGNALIZATION NOTES
T-7	SIGNALIZATION PLAN AT 25TH STREET (TS 24600)
T-8	SIGNALIZATION DETAILS - 25TH STREET (TS 24600)
T-9	STANDARD MAST ARM TABULATION - 25TH STREET (TS 24600)
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T-15	STANDARD MAST ARM TABULATION - 42ND STREET (TS 23550)
T-16	GUIDE SIGN WORKSHEET - 42ND STREET (TS 23550)
T-17	SIGNALIZATION PLAN AT 45TH STREET (TS 22425)
T-18	SIGNALIZATION DETAILS - 45TH STREET (TS 22425)
T-19	STANDARD MAST ARM TABULATION - 45TH STREET (TS 22425)
T-20	GUIDE SIGN WORKSHEET - 45TH STREET (TS 22425)
T-21	MAST ARM DATA TABLE (AUSTRALIAN AVE. & 25th ST)
T-22	MAST ARM DATA TABLE (AUSTRALIAN AVE. & 36th ST)
T-23	MAST ARM DATA TABLE (AUSTRALIAN AVE. & 42nd ST)
T-24	MAST ARM DATA TABLE (AUSTRALIAN AVE. & 45th ST)
GR-14	SOIL BORING LOCATION MAP AND PROFILES AT 25TH STREET
GR-15	SOIL BORING LOCATION MAP AND PROFILES AT 36TH STREET
G-1	REPORT OF CORE BORINGS AT 42ND STREET
GR-16	SOIL BORING LOCATION MAP AND PROFILES AT 45TH STREET
UTV-01	SUMMARY OF VERIFIED UTILITIES
UTV-1	VERIFIED UTILITY LOCATE AT 42ND STREET

FINAL PLANS

GOVERNING STANDARD PLANS:
Florida Department of Transportation, Latest Edition of Standard Plans for Road and Bridge Construction and applicable Interin Revisions (IRs).

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

GOVERNING STANDARD SPECIFICATIONS
Florida Department of Transportation, Latest Edition of Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

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.

APPROVED BY: _____
NOUR SHEHADEH , P.E

DATE: _____

P.E. NO.: *FL REGISTRATION NO 48307*

Z:\Projects\2022\220101-AUSTRALIAN AVENUE\Phase III\220101 (III)Signals\KEYSSG01.DGN

HSQ GROUP, LLC.
Engineers · Planners · Surveyors
1001 Yamato Road, Suite 105
Boca Raton, Florida 33431 · 561.392.0221

Seal:

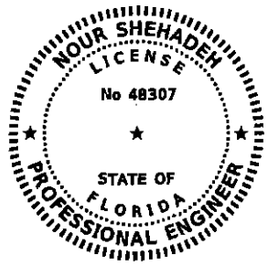
No.	Revisions	By	Date

PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229 WEST PALM BEACH, FLORIDA

SCALE:
APPROVED:
DRAWN:
CHECKED:
DATE:

COVER SHEET

SHEET: T-1
OF: T-24
PROJECT NO. 2021827



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

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

HSQ GROUP, INC.
ENGINEERS • PLANNERS • SURVEYORS
1001 YAMATO ROAD, SUITE 105
BOCA RATON, FLORIDA 33431 • (561) 392-0221
CERTIFICATE OF AUTHORIZATION 26258
NOUR SHEHADEH, P.E. NO. 48307

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

SIGNALIZATION PLANS

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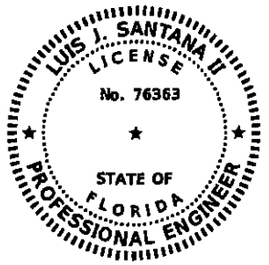

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

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

STANLEY CONSULTANTS, INC.
1641 WORTHINGTON ROAD, SUITE 400
WEST PALM BEACH, FLORIDA 33409
LUIS J. SANTANA II, P.E. NO. 76363

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

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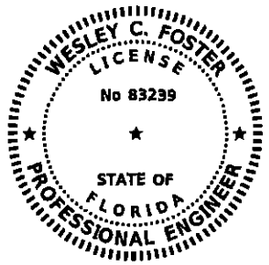
T-23	MAST ARM DATA TABLE (AUSTRALIAN AVE. & 42nd ST)
T-24	MAST ARM DATA TABLE (AUSTRALIAN AVE. & 45th ST)



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

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

PACIFICA ENGINEERING SERVICES
601 NORTH CONGRESS AVENUE, SUITE 303
DELRAY BEACH, FLORIDA 33445 • (561) 419-8460
CERTIFICATE OF AUTHORIZATION 32328
WESLEY C. FOSTER, P.E. NO. 83239

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

SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
GR-14	SOIL BORING LOCATION MAP AND PROFILES AT 25TH STREET
GR-15	SOIL BORING LOCATION MAP AND PROFILES AT 36TH STREET
G-1	REPORT OF CORE BORINGS AT 42ND STREET
GR-16	SOIL BORING LOCATION MAP AND PROFILES AT 45TH STREET

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SIGNALIZATION NOTES:

1. THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED COMMUNICATION EQUIPMENT IS PALM BEACH COUNTY TRAFFIC ENGINEERING DIVISION (PBCTED). ALL TRAFFIC AND RELATED COMMUNICATION EQUIPMENT FOR THIS CONTRACT SHALL BE COMPATIBLE WITH PBCTED'S CENTRAL COMPUTER NETWORK SYSTEM. PRIOR TO PURCHASING PRODUCTS, ENSURE THEY HAVE BEEN APPROVED FOR SYSTEM COMPATIBILITY WITH PBCTED.

2. THE CONTRACTOR SHALL RESTRICT THE HEIGHT OF EQUIPMENT USED WHEREVER NECESSARY TO AVOID ENCROACHING INTO ANY FP&L ENERGIZED POWER LINES. CONTRACTOR SHALL COORDINATE WITH FPL FOR CLEARANCE FROM POWERLINES.

3. THE LOCATION OF THE EXISTING UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY: THE EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO THE START DATE OF CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF "OTHER" UTILITIES (NOT SHOWN IN THE PLANS) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE UTILITY CONFLICTS, THE CONTRACTOR SHALL INFORM THE ENGINEER AND NOTIFY THE RESPECTIVE UTILITY OWNERS TO RESOLVE UTILITY CONFLICTS AND UTILITY ADJUSTMENTS, AS REQUIRED.

CONTACT PERSON	UTILITY	PHONE NUMBER
ALEX ARNOLD	FPL - WEST PALM BEACH	561-616-1618
DONOVAN CARR	MCI	469-886-4091
BRAD COLLINS	FLA PUBLIC UTILITIES CO.	561-252-3308
IBRAIN FONT	MASTEC, INC.	786-267-4697
JACKIE MICHAELS, PE	PBC WATER UTILITIES DPTM.	561-740-4609
DINO FARRUGGIO	AT&T DISTRIBUTION	561-683-2729
TONY SPRINGSTEEL	COMCAST - PBG	561-804-0973
ANDY POIKANS	CROWN CASTLE NG	888-632-0931
MARY BRODBECK	PBC - TRAFFIC ITS	561-681-4365
SUPERINTENDENT	PBC - TRAFFIC OPERATIONS	561-233-3900

4. CONTRACTOR SHOULD REVIEW AND ADHERE TO THE PALM BEACH COUNTY TRAFFIC SIGNAL INSTALLATION STANDARDS AND DETAILS 2022 (OR LATEST REVISED EDITION) AND THE FDOT ROADWAY DESIGN STANDARDS LATEST EDITION.

5. 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 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 FOUNDATION
      - MAST ARM POLES WITH LUMINAIRE ATTACHMENTS SHALL BE PROVIDED WITH SHOP DRAWINGS AND CALCULATIONS

6. SHOP DRAWINGS AND DESIGN DATA SHALL BE SUBMITED ELECTRONICALLY TO THE EOR WITH A COPY SENT TO PALM BEACH COUNTY TRAFFIC DIVISION AT ENG-Traff-Inspection@pbcgov.org ALLOW 30 DAYS TURN AROUND FOR SUBMITTALS.

7. THE CONTRACTOR SHALL CONTACT PBC 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.

8. 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 HOURS NOTICE TO THE MAINTAINING AGENCY. CONTROL DEVICES SHALL THEN BE REMOVED BY OTHERS FOR DELIVERY TO THE NOTIFIED AGENCY.

9. ALL REMOVED ITEMS TO BE DELIVERED TO PBCTED AT 2555 VISTA PARKWAY, WEST PALM BEACH, FL - CALL 48 HOURS PRIOR TO DELIVERY (561) 233-3900. CONCRETE POLES CAN BE DISCARDED/PROPERLY DISPOSED OFF.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD CHECKING INTERSECTION OPERATIONS AS THEY RELATE TO THE INSTALLATION OF MAST ARMS.

11. 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.

12. NO EXISTING PEDESTRIAN CROSSING TO BE ELIMINATED AT ANY TRAFIC SIGNAL WITHOUT PRE-APPROVAL FROM PBC TRAFFIC ENGINEERING

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 IN DANGER OF BEING DAMAGED, DESTROYED, OR COVERED HAVE TO BE PROPERLY REFERENCED BY A PROFFESSIONAL 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, 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 MARKS 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 FOR DAMAGED N.G.V.D. DISCS TO THE DISTRICT LOCATION SURVEYOR, WHO WILL NOTIFY THE GEODECTIC INFORMATION CENTER.

15. 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 NOR 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%)

16. SPARE CABINET CONDUIT SHALL BE STUBBED AND CAPPED IN THE NEAREST PULL BOX. USE GEL CAPS FOR ANY SPARE/USED CONDUIT.

17. 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 SALL BE REPAIRED OR REPLACED TO ORIGINAL OR BETTER CONDITION AT NO COST TO PALM BEACH COUNTY.

18. THE CONTRACTOR SHALL SUBMIT IN WRITING TO THE MAINTANING AGENCY FOR FINAL INSPECTION. ALLOW TWO (2) WEEKS FOR INSPECTION. TO SCHEDULE A TRAFFIC SIGNAL INSPECTION PLEASE EMAIL: ENG-Traff-Inspection@pbcgov.org. IF YOUR PROJECT IS PART OF PBC ROADWAY PROJECT, THEN COPY IN CONSTRUCTION COORDINATOR/ROAD INSPECTOR.

19. 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.

20. 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.

21. THE USE OF "JONES" PLUGS FOR SIGNAL INSTALLATIONS SHALL BE PROHIBITED.

22. THE CONTRACTOR SHALL BUILD NEW ELECTRICAL POWER SERVICE AND DISCONNECT ON MONUMENT WITH A MINIMUM HEIGHT OF EIGHT (8) FEET.

23. 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 CLOSURESARE ALLOWED DURING AM AND PM PEAK HOURS (BASED ON LANE CLOSURE ANALYSIS)

24. ALL PEDESTRIAN DETOURS FOR MOT TO BE PRE-APPROVED BY PBC TRAFFIC ENGINEERING DIVISION

25. 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.

26. 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.

27. THE CONTRACTOR SHALL VERIFY COLOR CODES OF SIGNAL CABLE WITH PALM BEACH COUNTY BEFORE ORDERING.

28. THE CONTRACTOR SHALL COORDINATE AND FIELD VERIFY LOCATION(S) OF ELECTRICAL SERVICE POINT PRIOR TO INSTALLING CONDUIT, DISCONNECT SWITCH, TRANSFORMER AND PULL BOXES.

29. 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.

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31. 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.

32. 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.

33. 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.

34. 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 PREAPPROVAL. WRITTEN APPROVAL FOR SHOP DRAWINGS SHALL BE PROVIDED AT TIME OF FINAL SIGNAL NSPECTION.

35. CONTRACTOR TO PROVIDE A MINIMUM 2 FEET CABLE SLACK AT ALL PULL BOXES AND HAND HOLDS.

36. 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.

37. DURING CONSTRUCTION OF NEW SIGNAL EQUIPMENT, THE CONTRACTOR SHALL COORDINATE HIS ACTIVITIES TO ENSURE THAT FUNCTIONING TRAFFIC SIGNALS REMAIN VISIBLE TO MOTORISTS.

38. CONTRACTOR TO MAINTAIN EXISTING SIGNAL OPERATIONAL AT ALL TIMES

39. ALL EXISTING SIGNALIZATION EQUIPMENT IS ASSUMED TO BE IN GOOD WORKING ORDER UNLESS PBCTED IS NOTIFIED IN WRITING PRIOR TO START OF CONSTRUCTION. ANY SUBSEQUENT DAMAGE TO THE SIGNAL EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR.

40. 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 SHAL BE INCLUDED IN PAY ITEM 102-1 MOT. A CELLULAR COMMUNICATION PLAN MAY NEED TO BE INSTALLED AND APPROVED BY THE COUNTY TOMAINTAIN CONTINUOUS COMMUNICATION THROUGHPUT THE PROJECT

41. POWER SOURCE - CONTRACTOR SHALL COORDINATE WITH FPL FOR NEW INSTALLATION AS REQUIRED. USE ITEM NUMBER 639-1-122 METER PURCHASE BY CONTRACTOR. ELECTRIC SERVICE TO BE SET UP IN CONTRACTOR'S NAME, THEN TRANSFERRED TO PBC TRAFFIC DIVISION AFTER 90 DAY BURN AND FINAL ACCEPTANCE.

42. 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.

43. 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 <u>EACH</u> PEDESTRIAN SIGNAL/DETECTOR DIRECTLY TO CONTROL BOX WITH <u>NO SPLICES</u>.

44. INSTALL PEDESTRIAN SIGNALS PER ADA CLEARANCES, PROVIDING CONTINUOUS UNOBSTRUCTED PEDESTRIAN/WHEELCHAIR CIRCULATION PATH TO PEDESTRIAN AREAS (PUSH BUTTON, RAMP, ETC.).

45. 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.

46. PEDESTAL POLE BASE NUT SHOULD BE LARGE ENOUGH TO COVER HOLE AND WASHER.

47. ALL SET SCREWS MUST BE INSTALLED (NONE SHOULD BE MISSING). MOST MANUFACTURES 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 ¼" X 20 SS HEX HEAD BOLT WILL LOCK THE PIPE FROM TURNING.

48. BOLTS SHOULD BE LONG ENOUGH TO PROTRUDE THROUGH THE THREADED HOLE AND HOLD WASHER AND NUT.

49. CAULKING/SEALANT TO BE APPLIED AT ALL SIGNALS FLANGE CONNECTIONS, INCLUDING BUT NOT LIMITED TO THE TOP OF THE FLASHER SIGNAL.

50. STREETLIGHTS ON MAST ARM SIGNAL SHOULD BE A SEPARATE CIRCUIT (NOT CONNECTED TO THE OTHER ARTERIAL STREET LIGHTS REQUIRED BY FDOT). STREETLIGHTS ON MAST ARMS WILL BE MAINTAINED BY TRAFFIC DIVISION AS PART OF THE SIGNAL.

51. THE DRILL SHAFT FOUNDATION SHALL BE FLUSH WITH THE SIDEWALK (GROUND LEVEL), NOT BELOW GROUND LEVEL. STRUCTURAL GROUT PAD MUST NOT EXTEND HIGHER THAN A 2" ELEVATION ABOVE FOUNDATION PER FDOT STANDARDS.

52. THE COST OF WIRE FOR THE LIGHTS ON THE MAST ARMS FOR THE SIGNALS SHALL BE INCLUDED IN THE COST OF LUMINAIRE.

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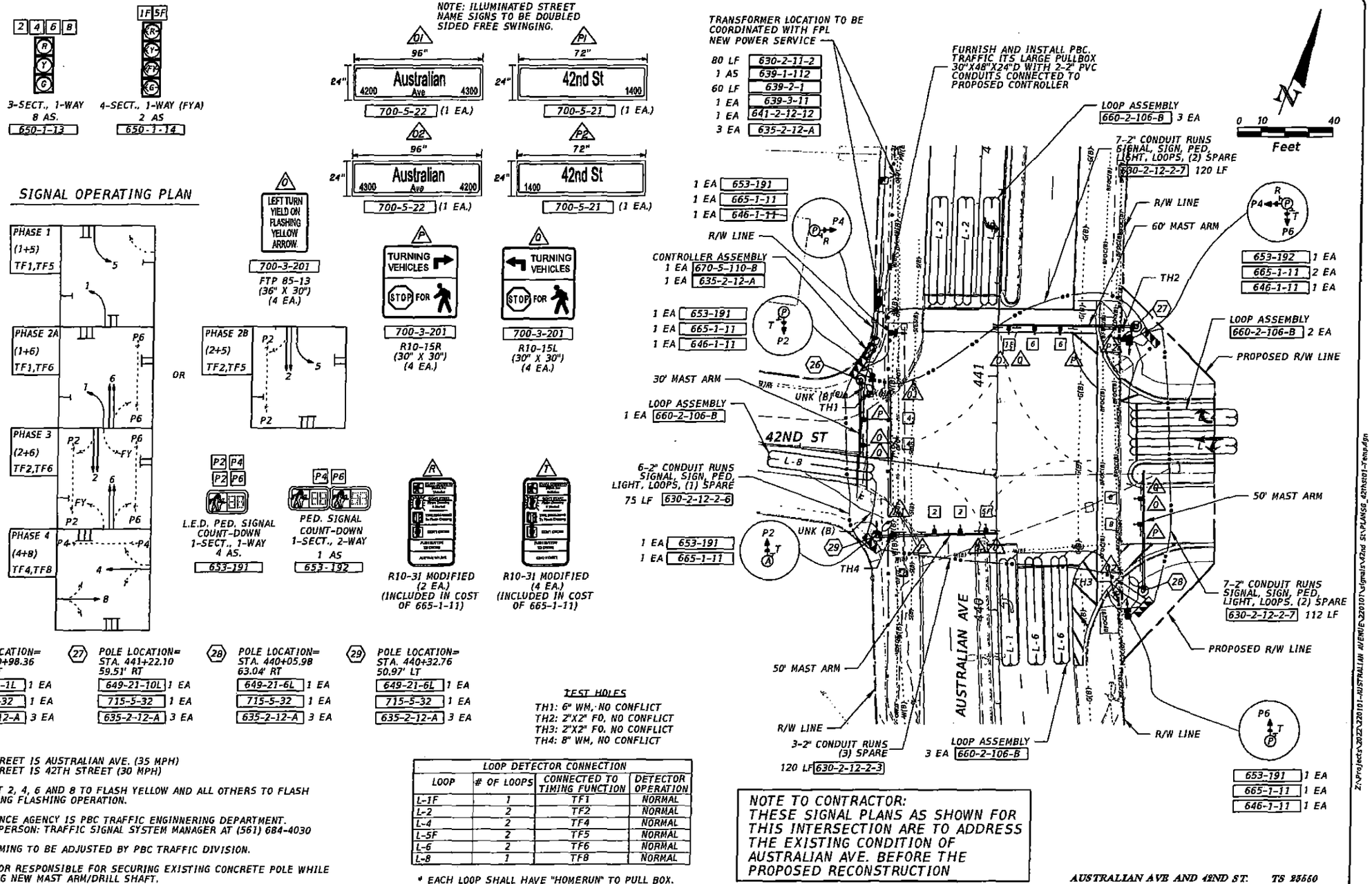
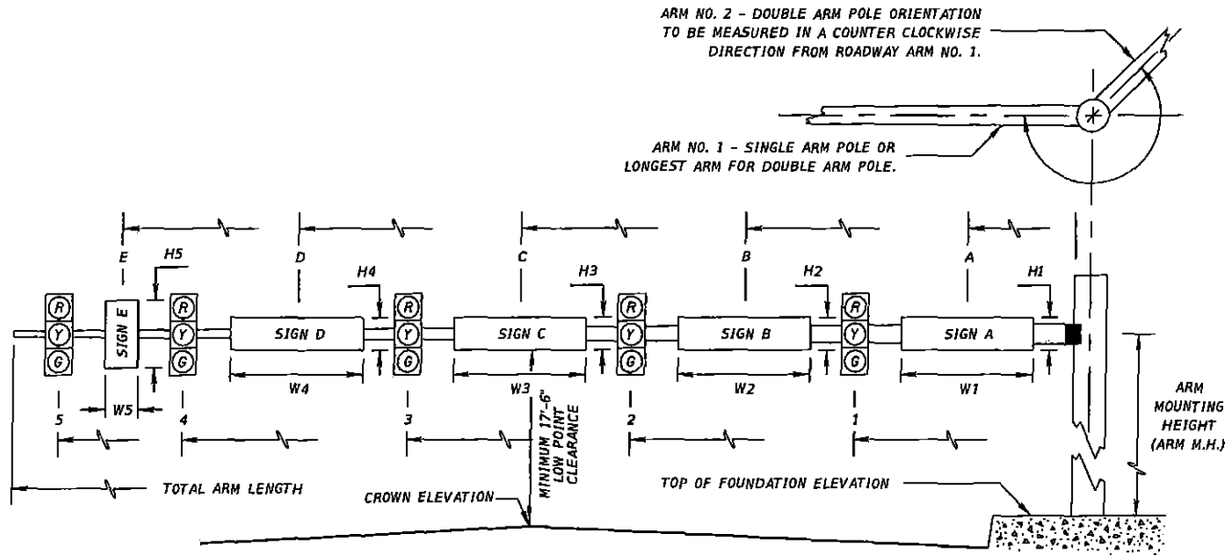


Exhibit A
Page 9 of 15



* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUND. ELEVATION	RDWY ARM NO.	CROWN ELEV.	SIGNAL DATA: SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE	MAST ARM NOTE	TOTAL ARM LENGTH	ARM M.H.	ANGLE BETWEEN DUAL ARMS 90/270	SIGN DATA: DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN	PAINT COLOR
26	T-37	440+98.36	15.53	1	14.70	V	Y	N	15.5 * 3 26.5 * 3	PROP	30	22.0		A 6.0; H1 2'-0"; W1 8'-0"; B 12.0; H2 2'-6"; W2 2'-6"; C 23.5; H4 3'-0"; W4 2'-6"; D 29.5; H5 2'-6"; W5 2'-6"	GALVANIZED
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27	T-37	441+22.10	15.10	1	15.50	V	Y	N	31.0 * 3 42.0 * 3 53.0 * 4	PROP	60	22.0		A 10.0; H1 2'-0"; W1 6'-0"; B 26.0; H2 2'-6"; W2 2'-6"; C 50.0; H4 2'-6"; W4 2'-6"; D 58.0; H5 3'-0"; W5 2'-6"	GALVANIZED
---	-----	----------	-------	2									-----		
28	T-37	440+05.98	16.34	1	15.35	V	Y	N	27.0 * 3 38.0 * 3	PROP	50	22.0		A 10.0; H1 2'-0"; W1 6'-0"; B 24.0; H2 2'-6"; W2 2'-6"; C 35.0; H4 3'-0"; W4 2'-6"; D 42.0; H5 2'-6"; W5 2'-6"	GALVANIZED
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29	T-37	440+32.76	15.74	1	16.37	V	Y	Y	23.0 * 3 34.0 * 3 45.0 * 4	PROP	50	22.0		A 8.0; H1 2'-0"; W1 6'-0"; B 17.5; H2 2'-6"; W2 2'-6"; C 42.0; H4 2'-6"; W4 2'-6"; D 49.0; H5 3'-0"; W5 2'-6"	GALVANIZED
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				1											
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				1											
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				1											

TS 23550

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HSQ GROUP, LLC.
Engineers · Planners · Surveyors
1001 Yamato Road, Suite 105

Seal:

No.	Revisions	By	Date

PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION

SCALE:
APPROVED:
DRAWN:
CHECKED:

STANDARD MAST ARM TABULATION

AUSTRALIAN AVE. AND 42ND STREET

SHEET: T-15
OF: T-24
PROJECT NO.

SIGN NAME	O-1	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER			none
WIDTH	8'-0"	WIDTH	1"		
HEIGHT	2'-0"	RADII	1.5"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES | FIXTURE SPACING | PHOTOMETRIC CURVE | WATT | VOLTAGE

| | | | | |

STANDARD MAST ARM ASSEMBLIES DATA TABLE

STRUCTURE ID NUMBERS	(1) ASSEMBLY NUMBERS	FIRST ARM			SECOND ARM			UF (deg)	LL (deg)	POLE				SPECIAL DRILLED SHAFT (4)							
		ARM TYPE	FAA (ft.)	FBA (in.)	ARM TYPE	(2) FAA (ft.)	(2) FBA (in.)			POLE TYPE	(3) UAA (ft.)	UB (ft.)	(3) UCA (In.)	DA (ft.)	DB (ft.)	RA	RB	RC	RD	RE	RF
26	A30/S-P1/S/L	A30/S							45	P1/S/L		22		12	4.5	11	16	8	12		
27	A60/S/H-P4/S/L	A60/S/H							45	P4/S/L		22		16	5.0	11	18	10	8		
28	A50/S-P3/S/L	A50/S							45	P3/S/L		22		14	4.5	11	16	10	8		
29	A50/S/H-P3/S/L	A50/S/H							45	P3/S/L		22		16	4.5	11	16	10	8		

TABLE NOTES:

1. Assembly Number Legend

   Single Arm:
   Arm Type - Pole Type = D# - S#
   = E# - T#
   = F# - W#

   Double Arm:
   First Arm Type - Second Arm Type - Pole Type= D# - D# - S#
   = E# - E# - T#
   = F# - F# - W#

2. If an entry appears in columns "FAA" and "FBA", a shorter arm is required. This is obtained by removing length from the arm tip. For these cases the mast arm length shall be shortened from "FA" to "FAA" and the tip diameter shall be increased from "FB" to "FBA".

3. If an entry appears in columns "UAA" and "UCA", a shorter pole is required. This is obtained by removing length from the pole tip. For these cases the pole height shall be shortened from "UA" to "UAA" and the pole tip diameter shall be increased from "UC" to "UCA".

4. The foundations for Standard Mast Arm Assemblies are pre-designed and are based upon the following conservative soil criteria which covers the great majority of soil types found in Florida. Only complete the "Special Drilled Shaft" data information if site conditions dictate drilled shafts with additional foundation capacity.

   Mast Arm 26 and 29
   Classification = Cohesionless (Fine Sand)
   Friction Angle = 32 Degrees (30°)
   Unit Weight = 47 lbs. / cu. ft. (assumed saturated)
   N - Blowcount = 14 (AVERAGE N VALUE USED)

   Mast Arm 27 and 28
   Classification = Cohesionless (Fine Sand)
   Friction Angle = 31 Degrees (31°)
   Unit Weight = 47 lbs. / cu. ft. (assumed saturated)
   N - Blowcount = 14 (AVERAGE N VALUE USED)

GENERAL NOTES;

1. 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.
2. Work with Index Nos. 649-030 and 649-031 (FY2024-25).
3. Design Wind Speed = 170 mph
4. Splice Length for all arms = 36in.

AUSTRALIAN AVE AND 42ND ST. TS 23550

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Stanley Consultants INC.
1641 WORTHINGTON ROAD, SUITE 400
West Palm Beach, Florida 33409
www.stanleygroup.com

SEAL: LUIS A. SANTANA

NO.	REVISION	BY	DATE

PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

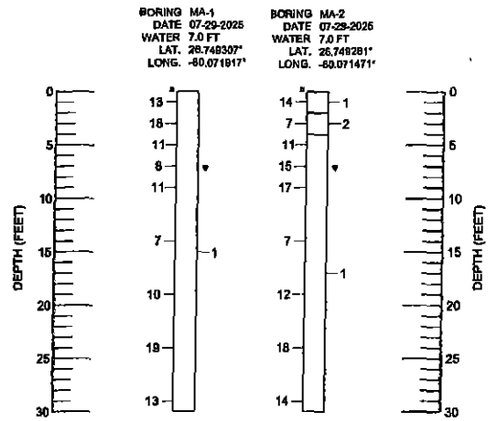
SCALE: NONE
APPROVED: LJS
DRAWN: SS
CHECKED: SM
DATE: 12/10/25

MAST ARM DATA TABLE
(AUSTRALIAN AVE AND 42ND ST.)

DESIGN FILE NAME: MSSGS609.DGN
SCI PROJECT NO.: 30693.01

SHEET: T-23
OF: T-24
PROJECT NO.: 2021827

APPROXIMATE SPT BORING LOCATION

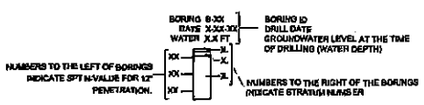


STRATUM LEGEND

1. GRAY TO BROWN, CLEAN TO SLIGHTLY SILTY, POORLY GRADED FINE SAND (A3 / SP OR SP-SM)

2. DARK BROWN SANDY ORGANIC PEAT (A-8 / PT)

SOIL PROFILE LEGEND/NOTES



SPT AND DRILLING NOTES

HAMMER WEIGHT, DROP HEIGHT	140 POUNDS, 30 INCHES
TYPE OF HAMMER	AUTOMATIC
TYPE OF RIGS, DRILLERS	CME-55, L.S.
SPOON LENGTH	18 OR 24 INCHES
SPOON ID, OD	1 3/8 INCHES, 2 INCHES

GRANULAR MATERIALS RELATIVE DENSITY	AUTOMATIC HAMMER SPT-N (BLOWS/12-INCH)	SILTS AND CLAYS CONSISTENCY	AUTOMATIC HAMMER SPT-N (BLOWS/12-INCH)
VERY LOOSE	LESS THAN 3	VERY SOFT	LESS THAN 1
LOOSE	3-8	SOFT	1-3
MEDIUM DENSE	8-24	FIRM	3-6
DENSE	24-40	STIFF	6-12
VERY DENSE	GREATER THAN 40	VERY STIFF	12-24
		HARD	GREATER THAN 24

NOTES:

1) SUBSURFACE ELEVATIONS BETWEEN BORINGS SHOULD BE AS INDICATED IN SECTION 2-4 OF THE FDOT STANDARD SPECIFICATIONS.

2) BORINGS WERE PERFORMED UTILIZING AN AUTOMATIC HAMMER IN ACCORDANCE WITH ASTM-D1586.

3) BOREHOLES WERE GROUTED WITH A PORTLAND CEMENT COMPOUND UPON COMPLETION OF THE BORING.

4) AN AVERAGE ORGANIC CONTENT OF 41.3% WAS ENCOUNTERED IN BORING MA-2 AT A DEPTH OF 2 TO 4 FEET BELOW EXISTING GRADE.

PACIFICA ENGINEERING SERVICES, LLC
601 N CONGRESS AVE - SUITE 303
DELRAY BEACH, FLORIDA 33445
PHONE:(561) 419-8450
CERTIFICATE OF AUTHORIZATION No.32328
ENGINEER OF RECORD:
ANDRE KNIAZEFF, P.E. NO. 81315

AUSTRALIAN AVENUE AND 42ND STREET SIGNAL

NO.	REVISION	BY	DATE

PALM BEACH COUNTY
ENGINEERING AND PUBLIC WORKS
ROADWAY PRODUCTION
P.O. BOX 21229, WEST PALM BEACH, FLORIDA

SCALE: MR
DRAWN: AK
CHECKED: 08/06/2025
DATE:

REPORT OF CORE BORINGS

SHEET NO.: G-1

DESIGN FILE NAME:
DRAWING NO.:
PACIFICA PROJECT NO.: 320-25549

SUMMARY OF VERIFIED UTILITIES

Vvh #	UTILITY DESCRIPTION (Owner, type)	SIZE	MATERIALS	B/L and/or C/L			EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
				STATION	OFFSET	LT/RT			
10	CITY OF WEST PALM BEACH	UNK	CI	49+59.87	64.23'	RT	15.47'	9.77'	DUE TO WATER TABLE/DEPTH A PHOTO AND SIZE COULD NOT BE DETERMINED
11	CITY OF WEST PALM BEACH	UNK	CI	49+61.55	57.71'	RT	15.38'	10.81'	DUE TO WATER TABLE/DEPTH A PHOTO AND SIZE COULD NOT BE DETERMINED
12	UNKNOWN	UNK	HDPE	49+66.11	52.25'	RT	15.33'	9.03'	DUE TO WATER TABLE/DEPTH A PHOTO AND SIZE COULD NOT BE DETERMINED
13	N/A	N/A	N/A	48+66.71	66.71'	LT	14.80'	14.80'	SEARCHED FOR FIBER OPTIC, NO SIGNALS DETECTED NO UTILITY RECOVERED
14	FLORIDA PUBLIC UTILITIES, CO.	4 INCH	WSTL	48+51.04	44.82'	LT	14.80'	12.00'	
15	UNKNOWN	4 INCH	PVC	72+74.40	48.24'	RT	15.90'	13.30'	
15A	UNKNOWN	1/2 INCH	DBC	72+74.27	47.66'	RT	15.97'	13.47'	
16	UNKNOWN	4 INCH	PVC	71+94.06	47.85'	RT	15.75'	13.25'	
17	CITY OF WEST PALM BEACH	N/A	N/A	90+26.21	83.85'	RT	14.87'	12.59'	
18	N/A	N/A	N/A	86+61.76	81.80'	RT	12.85'	12.85'	SEARCHED FOR FIBER OPTIC, NO SIGNALS DETECTED NO UTILITY RECOVERED
19	UNKNOWN	UNK	PVC	88+48.53	77.56'	LT	14.80'	11.56'	DUE TO WATER TABLE/DEPTH A PHOTO AND SIZE COULD NOT BE DETERMINED
20	CITY OF WEST PALM BEACH	42 INCH	AC	99+13.93	57.88'	LT	16.03'	9.37'	DUE TO WATER TABLE/DEPTH A PHOTO AND SIZE COULD NOT BE DETERMINED
21	CITY OF WEST PALM BEACH	UNK	DIP	99+72.63	43.58'	RT	15.87'	12.41'	DUE TO WATER TABLE/DEPTH A PHOTO AND SIZE COULD NOT BE DETERMINED
22	N/A	N/A	N/A	99+62.76	65.03'	RT	14.93'	14.93'	SEARCHED FOR FIBER OPTIC, NO SIGNALS DETECTED NO UTILITY RECOVERED
23	UNKNOWN	2 INCH	HDPE	198+30.95	59.19'	RT	23.73'	20.49'	
24	N/A	N/A	N/A	197+96.78	78.40'	LT	20.34'	20.34'	SEARCHED FOR GAS MAIN, NO SIGNALS DETECTED NO UTILITY RECOVERED
25	UNKNOWN	4 INCH	PVC	197+94.93	78.30'	LT	20.32'	17.13'	

LIMITS: ALONG AUSTRALIAN AVENUE, FROM BANYAN BOULEVARD TO 45TH STREET, WEST PALM BEACH (PALM BEACH CO.,FL.)

S.U.E. NOTES:

1. OWNERSHIP IS BASED UPON OBSERVING VISIBLE ABOVE GROUND UTILITY FEATURES AND PROFESSIONAL JUDGEMENT. NO RECORDS RESEARCH WAS PERFORMED BY RITZEL-MASON, INC.

SURVEYOR'S NOTES:

1. THIS SURVEY WAS PERFORMED BY RITZEL-MASON.
2. ELEVATIONS ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988(NAVD88).
3. BEARINGS AND COORDINATES ARE RELATIVE TO THE STATE PLANE COORDINATES FLORIDA EAST ZONE, NORTH AMERICAN DATUM OF 1983, ADJUSTMENT OF 1990 (NAD 83/90) AS PROVIDED BY RITZEL-MASON.
4. STATION AND OFFSET REFER TO SURVEY BASELINE FOR AUSTRALIAN AVENUE.
5. PROJECT UNITS: U.S. SURVEY FEET.
6. THE SPECIFIC PURPOSE OF THIS SURVEY IS TO DETERMINE THE HORIZONTAL AND VERTICAL LOCATION OF VACUUM TEST HOLES AS MARKED ON THE SURFACE BY THE SUBSURFACE UTILITY ENGINEERING DEPARTMENT OF RITZEL-MASON, INC.

LEGEND

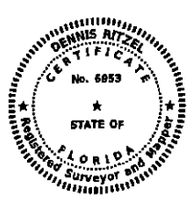
ACP	ASBESTOS CEMENT PIPE
B.C.	BOTTOM COVER
B.E.	BURIED ELECTRIC
B/L	BASELINE
C/L	CENTERLINE
C.I.	CAST IRON
FOC	FIBER OPTIC CABLE
GALV.	GALVANIZED
LB	LICENSED BUSINESS
LT	LEFT
N/A	NOT APPLICABLE
PSM	PROFESSIONAL SURVEYOR & MAPPER
PVC	POLYVINYL CHLORIDE PIPE
RCP	REINFORCED CONCRETE PIPE
RT	RIGHT
SR	STATE ROAD
SUE	SUBSURFACE UTILITY ENGINEERING
T.S.	TRAFFIC SIGNAL
T.C.	TOP COVER
T.H.	TEST HOLE
VVH	VERIFIED VERTICAL ELEVATION & HORIZONTAL LOCATION

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THIS SPECIFIC PURPOSE SURVEY WAS MADE FOR THE PURPOSE OF SURVEYING, REFERENCING, DESCRIBING AND MAPPING THE VACUUM EXCAVATION TEST HOLES, AS MARKED ON THE SURFACE AND SURVEYED BY RITZEL-MASON AND IT MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17 FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027 FLORIDA STATUTES. THIS MAP CONSISTING OF SHEET UTV-1 IS A TRUE, ACCURATE AND COMPLETED DEPICTION OF THE RESULTS OF A FIELD SURVEY PERFORMED UNDER MY DIRECTION AND COMPLETED ON AUGUST 26, 2022

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

CERTIFICATE OF AUTHORIZATION:
SURVEYOR OF RECORD:



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

RITZEL-MASON, INC.
5119 BEECHWOOD ROAD
DELRAY BEACH, FLORIDA 33484
LICENSED BUSINESS 8265
DENNIS RITZEL, PSM
SURVEY LICENSE NO.6953

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

THE ABOVE NAMED PROFESSIONAL SURVEYOR & MAPPER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 5J-17.062, F.A.C.

INDEX OF SURVEY PLANS

UTV-1	SUMMARY OF VERIFIED UTILITIES

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DENNIS RITZEL, PSM
SURVEYOR LICENSE NUMBER 6953
RITZEL-MASON, INC.
5119 BEECHWOOD ROAD
DELRAY BEACH, FLORIDA 33484

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	PROJECT NO.
N/A	PALM BEACH	2021827

SUMMARY OF VERIFIED UTILITIES

SHEET NO. UTV01

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 5J-17.062, F.A.C.

VERIFIED UTILITY LOCATE

Vvh #	UTILITY DESCRIPTION (Owner, type)	SIZE	MATERIALS	B/L and/or C/L			EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
				STATION	OFFSET	LT/RT			
TH1	CITY OF WEST PALM BEACH, WATER MAIN	6 INCH	CAST IRON	182+92.42	53.96'	LT	13.52'	11.02'	
TH2	PBC TRAFFIC OPERATIONS, FIBER OPTIC	2X2 INCH	PVC	183+21.42	52.98'	RT	14.11'	9.14'	
TH3	PBC TRAFFIC OPERATIONS, FIBER OPTIC	2X2 INCH	CAP ROCK	182+03.77	52.83'	RT	14.62'	12.37'	ENCOUNTERED CAP ROCK AT 2.25 FEET DEEP. COULD NOT EXCAVATE DEEPER.
TH4	CITY OF WEST PALM BEACH, WATER MAIN	8 INCH	CAST IRON	182+32.69	44.13'	LT	13.36'	11.16'	

LIMITS: ALONG AUSTRALIAN AVENUE, AT THE INTERSECTOIN WITH 42ND STREET, WEST PALM BEACH (PALM BEACH CO.,FL.)

S.U.E. NOTES:

1. OWNERSHIP IS BASED UPON OBSERVING VISIBLE ABOVE GROUND UTILITY FEATURES AND PROFESSIONAL JUDGEMENT. NO RECORDS RESEARCH WAS PERFORMED BY RITZEL-MASON, INC.

SURVEYOR'S NOTES:

1. THIS SURVEY WAS PERFORMED BY RITZEL-MASON.
2. ELEVATIONS ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988(NAVD88).
3. BEARINGS AND COORDINATES ARE RELATIVE TO THE STATE PLANE COORDINATES FLORIDA EAST ZONE, NORTH AMERICAN DATUM OF 1983, ADJUSTMENT OF 1990 (NAD 83/90) AS PROVIDED BY RITZEL-MASON.
4. STATION AND OFFSET REFER TO SURVEY BASELINE FOR SR 5, AS PROVIDED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION.
5. PROJECT UNITS: U.S. SURVEY FEET.
6. THE SPECIFIC PURPOSE OF THIS SURVEY IS TO DETERMINE THE HORIZONTAL AND VERTICAL LOCATION OF VACUUM TEST HOLES AS MARKED ON THE SURFACE BY THE SUBSURFACE UTILITY ENGINEERING DEPARTMENT OF RITZEL-MASON, INC.

LEGEND

ACP	ASBESTOS CEMENT PIPE
B.C.	BOTTOM COVER
B.E.	BURIED ELECTRIC
B/L	BASELINE
C/L	CENTERLINE
C.I.	CAST IRON
FOC	FIBER OPTIC CABLE
GALV.	GALVANIZED
LB	LICENSED BUSINESS
LT	LEFT
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PSM	PROFESSIONAL SURVEYOR & MAPPER
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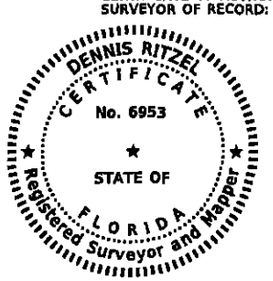
T.S.	TRAFFIC SIGNAL
T.C.	TOP COVER
T.H.	TEST HOLE
VVH	VERIFIED VERTICAL ELEVATION & HORIZONTAL LOCATION

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THIS SPECIFIC PURPOSE SURVEY WAS MADE FOR THE PURPOSE OF SURVEYING, REFERENCING, DESCRIBING AND MAPPING THE VACUUM EXCAVATION TEST HOLES, AS MARKED ON THE SURFACE AND SURVEYED BY RITZEL-MASON AND IT MEETS THE STANDARDS OF PRACTICE SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17 FLORIDA ADMINISTRATIVE CODE PURSUANT TO SECTION 472.027 FLORIDA STATUTES. THIS MAP CONSISTING OF SHEET UTV-1 IS A TRUE, ACCURATE AND COMPLETED DEPICTION OF THE RESULTS OF A FIELD SURVEY PERFORMED UNDER MY DIRECTION AND COMPLETED ON SEPTEMBER 4, 2025

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

CERTIFICATE OF AUTHORIZATION:
SURVEYOR OF RECORD:



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

RITZEL-MASON, INC.
5330 VAN BUREN ROAD
DELRAY BEACH, FLORIDA 33484
LICENSED BUSINESS 8265
DENNIS RITZEL, PSM
SURVEY LICENSE NO.6953

INDEX OF SURVEY PLANS

UTV-1	SUMMARY OF VERIFIED UTILITIES

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THE ABOVE NAMED PROFESSIONAL SURVEYOR & MAPPER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 5J-17.062, F.A.C.

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 5J-17.062, F.A.C

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DENNIS RITZEL, PSM
SURVEYOR LICENSE NUMBER 6953
RITZEL-MASON, INC.
5330 VAN BUREN ROAD
DELRAY BEACH, FLORIDA 33484
LICENSED BUSINESS NUMBER 8265

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
____	PALM BEACH	_____

VERIFIED UTILITY LOCATE

SHEET NO. UTV-1

ACRISURE®

March 29, 2026

Palm Beach County
2300 North Jog Road, Ste 3W-33
West Palm Beach, FL 33411-2745

RE: Gerelco Traffic Controls, Inc

Bond No. 0278355
Project: 2025054-2021827 Construction of a Mast Arm traffic signal at the intersection of Australian Ave and 42nd St ID #23550

To Whom it May Concern:

Please allow this letter to service as formal authorization for **Gerelco Traffic Controls, Inc** and/or **Palm Beach County** to date the captioned bond, power of attorney to coincide with the Contract Date and the form of guarantee upon substantial completion. Please note the bond date cannot be prior to the contract date.

Please provide the bond date and send back to our office via email as soon as possible:

Bond Date: _____

Thank you and should you have any questions or need any additional information, please feel free to contact our office anytime.

Sincerely,

Brett Rosenhaus
Attorney-in-Fact

FRONT PAGE OF
PUBLIC PAYMENT BOND

Florida Statute 255.05

BOND NO. 0278355

CONTRACTOR:	Gerelco Traffic Controls, Inc 560 NW Enterprise Drive, Port St. Lucie, FL 34986 772-340-7474
SURETY:	Berkley Insurance Company 475 Steamboat Road, Greenwich, CT 06830 203-542-3800
AGENT:	Acrisure 12008 South Shore Blvd., Ste 201 Wellington, FL 33414 561-454-8202
OBLIGEE:	Palm Beach County 2300 North Jog Road, Ste 3W-33 West Palm Beach, FL 33411-2745 561-355-3230

PROJECT:	**2025054-2021827 Construction of a Mast Arm traffic signal at the intersection of Australian Ave and 42nd St ID #23550**
LOCATION:	**Australian Ave and 42nd St, Palm Beach County, FL**

PUBLIC CONSTRUCTION BOND

BOND NUMBER 0278355

BOND AMOUNT $682,415.92

CONTRACT AMOUNT $682,415.92

CONTRACTOR'S NAME: Gerelco Traffic Controls, Inc.

CONTRACTOR'S ADDRESS: 560 NW Enterprise Drive Unit C, Port Saint Lucie, FL 34986

CONTRACTOR'S PHONE: (772) 340-7474

SURETY COMPANY: Berkley Insurance Company

SURETY'S ADDRESS: 475 Steamboat Road
Greenwich, CT 06830

SURETY'S PHONE: (203) 542-3800

OWNER'S NAME: PALM BEACH COUNTY BOARD OF COUNTY COMMISSIONERS
CAPITAL IMPROVEMENTS DIVISION

OWNER'S ADDRESS: 2633 Vista Parkway
West Palm Beach, FL 33411-5604

OWNER'S PHONE: (561) 233-0261

PROJECT NAME: Australian Ave and 42nd St

PROJECT NUMBER: 2025054/2021827

CONTRACT NUMBER (to be provided after Contract award): 2025054

DESCRIPTION OF WORK: Construction of a Mast Arm traffic signal at the intersection of Australian Ave and 42nd St ID #23550

PROJECT ADDRESS, PCN, or LEGAL DESCRIPTION: Australian Ave and 42nd St

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 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 hereinbelow defined, in the amount of

Dollars ($ 682,415.92)

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: Traffic Signalization at Australian Ave & 42nd St.
Project No.: 2025054-2021827
Project Description: Traffic Signalization at Australian Ave & 42nd St. ID #23550
Project Location: Australian Ave & 42nd St. ID #23550

in accordance with Drawings and Specifications prepared by

NAME OF ARCHITECTURAL FIRM: TBD
LOCATION OF FIRM: TBD
PHONE: 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 a 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 attorneys' 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.

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.

Any increase in the total contract amount as authorized by the County shall accordingly increase the Surety's obligation by the same dollar amount of said increase. Contractor shall be responsible for notification to Surety of all 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.

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.

Any action brought under this instrument shall be brought in the court of competent jurisdiction in Palm Beach County and not elsewhere.

Witness

Witness Kailee Rosenhaus, Witness

Gerelco Traffic Controls, Inc.

Principal (Seal)

Title Jake Ridinger, President

Berkley Insurance Company

Surety (Seal)

Title Brett Rosenhaus, Attorney-in-Fact & FL Licensed Agent

IMPORTANT: Surety companies executing bonds must appear and remain on the U.S. Treasury Department's most current list (Federal Register) during construction, guarantee and warranty periods, and be authorized to transact business in the State of Florida.

FORM OF GUARANTEE

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

Construction of a Mast Arm traffic signal at

We the undersigned hereby guarantee that the the intersection of Australian Ave and 42nd St ID #23550 Project No. 2025054-2021827 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 a period of one year from the date of Substantial Completion of all of 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) working 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.

DATED_____
(Date to be filled in at substantial completion)

SEAL AND NOTARIAL
ACKNOWLEDGMENT OF SURETY

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

By: _____
(Contractor Signature)

Jake Ridinger, President
(Print Name and Title)

Berkley Insurance Company
(Surety Name) (Seal)

By: _____
(Surety Signature)

Brett Rosenhaus, Attorney-In-Fact
(Print Name and Title)

Form Rev. 01/16/19

No. BI-10406

POWER OF ATTORNEY
BERKLEY INSURANCE COMPANY
WILMINGTON, DELAWARE

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: ***Charles D. Nielson; Charles J. Nielson; Donald A. Lambert, III; Joseph P. Nielson; Jarrett Merlucci; David R. Hoover; Brett Rosenhaus; Laura D. Mosholder; Dale A. Belis; or Kevin R. Wojtowicz of Acrisure Southeast Partners Insurance Services, LLC of Leesburg, 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 2nd day of May, 2024.

Attest:

(Seal)

By _____
Philip S. Welt
Executive Vice President & Secretary

Berkley Insurance Company

By _____
Jeffrey M. Hafter
Senior Vice President

STATE OF CONNECTICUT)
) ss:
COUNTY OF FAIRFIELD)

Sworn to before me, a Notary Public in the State of Connecticut, this 2nd day of May, 2024, by Philip S. Welt 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 04-30-2028

_____
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

GERETRA-01 MATUSHESKIT

CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 8/29/2025

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER
Insurance Office of America
Abacoa Town Center
1200 University Blvd, Suite 200
Jupiter, FL 33458

CONTACT NAME: Tara Matusheski
PHONE (A/C, No, Ext): (407) 283-6824 FAX (A/C, No): (407) 788-7933
E-MAIL ADDRESS: Tara.Matusheski@ioausa.com

INSURER(S) AFFORDING COVERAGE	NAIC #
INSURER A : Highlander Specialty Insurance Company	16777
INSURER B : Rock Ridge Insurance Company	11089
INSURER C : Ascot Specialty Insurance Company	45055
INSURER D : Continental Casualty Company	20443
INSURER E : Ironshore Specialty Insurance Company	25445
INSURER F : Travelers Excess and Surplus Lines Company	29696

INSURED
Gerelco Traffic Controls Inc.
560 NW Enterprise Dr.
Port St. Lucie, FL 34986

COVERAGES **CERTIFICATE NUMBER:** **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	X COMMERCIAL GENERAL LIABILITY							
	[ ] CLAIMS-MADE [X] OCCUR	X	X	CZ20FLGL0002-00	9/1/2025	9/1/2026	EACH OCCURRENCE	$ 2,000,000
							DAMAGE TO RENTED PREMISES (Ea occurrence)	$ 100,000
							MED EXP (Any one person)	$ 5,000
							PERSONAL & ADV INJURY	$ 2,000,000
	GEN'L AGGREGATE LIMIT APPLIES PER:						GENERAL AGGREGATE	$ 4,000,000
	[ ] POLICY [X] PRO-JECT [ ] LOC						PRODUCTS - COMP/OP AGG	$ 4,000,000
	OTHER:							$
B	AUTOMOBILE LIABILITY						COMBINED SINGLE LIMIT (Ea accident)	$ 1,000,000
	X ANY AUTO			CZ09FLCA0006-00	9/1/2025	9/1/2026	BODILY INJURY (Per person)	$
	[ ] OWNED AUTOS ONLY [ ] SCHEDULED AUTOS						BODILY INJURY (Per accident)	$
	X HIRED AUTOS ONLY X NON-OWNED AUTOS ONLY						PROPERTY DAMAGE (Per accident)	$
								$
C	[ ] UMBRELLA LIAB [X] OCCUR						EACH OCCURRENCE	$ 4,000,000
	X EXCESS LIAB [ ] CLAIMS-MADE	X	X	ESXS251000385802	9/1/2025	9/1/2026	AGGREGATE	$ 4,000,000
	[ ] DED [ ] RETENTION $							$
D	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY						X PER STATUTE [ ] OTH-ER	
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y/N [N]	N/A	X	WC794230136	9/1/2025	9/1/2026	E.L. EACH ACCIDENT	$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below						E.L. DISEASE - EA EMPLOYEE	$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	$ 1,000,000
E	Pollution Commercial			ICELLUW00155666	9/1/2025	9/1/2026	Liability	2,000,000
F	Equipment Floater			QT6309W005262TXS24	9/1/2025	9/1/2026	Liability	2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
Re: Project #2025054 - Traffic Signal Continuing Services Construction Contract
Excess Automobile Liability, Pol#P00100142073802, Eff 9/1/2025-9/1/2026
Limits: $2,000,000
Axis Surplus Insurance Company

Excess Automobile Liability, Pol#USXTL1078285, Eff 9/1/2025-9/1/2026
$2,000,000 in excess of $2,000,000 policy listed above
SEE ATTACHED ACORD 101

CERTIFICATE HOLDER

Palm Beach County Board of County Commissioners
c/o Engineering Department Roadway Production
2300 N. Jog Road, 3rd Floor West
West Palm Beach, FL 33411

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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AGENCY CUSTOMER ID: GERETRA-01 MATUSHESKIT

LOC #: 1

ADDITIONAL REMARKS SCHEDULE

AGENCY		NAMED INSURED
Insurance Office of America		Gerelco Traffic Controls Inc. 688 NW Enterprise Dr. Port St. Lucie, FL 34986 Palm Beach
POLICY NUMBER		
SEE PAGE 1		
CARRIER	NAIC CODE	EFFECTIVE DATE: SEE PAGE 1
SEE PAGE 1	SEE P 1	

ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: ACORD 25 FORM TITLE: Certificate of Liability Insurance

Description of Operations/Locations/Vehicles:
Upland Specialty Insurance Company

Cyber Liability, Pol#CYB10809762800, Eff 11/9/2024-11/9/2025
Limits: $2,000,000
Travelers Excess and Surplus Insurance Company

Palm Beach County Board of County Commissioners, a Political Subdivision of the State of Florida, its Officers, Employees and Agents, when required by written contract are additional insured with respects to General Liability when required by written contract.

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CERTIFICATE OF RESOLUTION

The undersigned hereby certifies that the following are true and correct statements:

1. That the undersigned is the President *(insert title)* of Gerelco Traffic Controls, Inc. *(insert business name)* a Corporation *(insert business organization, i.e. corporation, LLC, LLP)*, organized and existing in good standing under the laws of the State of Florida *(where Firm was organized)*, and that the following Resolutions are true and correct Resolutions adopted by the Board of Directors *(insert form of management)* of the Firm on the 14 day of May, 2026, in accordance with the laws of the State of Florida *(where Firm was organized)* of the Firm, and Articles of Amendment *(governing documents)* of the Firm.

RESOLVED, that the Firm shall enter into that certain Contract between Palm Beach County, a political subdivision of the State of Florida, and the Firm, a copy of which is attached hereto, and be it

FURTHER RESOLVED, that Jake Ridinger, the President of the Firm, is hereby authorized and instructed to execute such Contract and such other instruments as may be necessary and appropriate for the Firm to fulfill its obligations under the Contract.

2. That the foregoing Resolutions have not been modified, amended, rescinded, revoked or otherwise changed and remain in full force and effect as of the date hereof.

3. That the Firm is in good standing under the laws of the State of Florida or its state of formation, as provided above, and has qualified, if legally required, to do business in the State of Florida and has the full power and authority to enter into such Contract.

IN WITNESS WHEREOF, the undersigned has set his/her hand and affixed the Seal of the Firm the 14th day of May, 2026,

(SEAL)

(Signature)

Jake Ridinger, President

(Print Name and Title)

STATE OF Florida

COUNTY OF St Lucie

The foregoing instrument was acknowledged before me by means of ☑ physical presence or ☐ online notarization, this 14th day of May, 2026, by Jake Ridinger *(name)* as President *(title)* for Gerelco Traffic Controls, Inc. *(firm)*, on behalf of the *(choose one)* corporation / company / partnership, who is ☑ personally known to me or ☐ has produced _____ *(type of identification)* as identification.

(Notary Signature)

Notary Public, State of Florida

Oteaka Lynn Lilly

(Print Notary Name)

(Stamp/Seal)

OTEAKA LYNN LILLY
Notary Public - State of Florida
Commission # HH 416901
My Comm. Expires Oct 27, 2027
Bonded through National Notary Assn.

Commission Number HH 416901

My Commission Expires 10/27/2027