





LOCATION SKETCH

Attachment 1  
Page 1 of 1



**WORK ORDER TO ANNUAL CONTRACT (R2017-0234) AS AMENDED (R2018-0208)  
BETWEEN PALM BEACH COUNTY AND GERELCO TRAFFIC CONTROLS, INC.  
TO CONSTRUCT A MAST ARM TRAFFIC SIGNAL TO REPLACE THE EXISTING  
SPAN WIRE STRUCTURE AT THE INTERSECTION OF LANTANA ROAD AND  
BENTBROOK BOULEVARD/GATEVIEW TERRACE,  
PALM BEACH COUNTY INTERSECTION ID NUMBER 40015  
SIGNAL PROJECT NUMBER 2017-57  
PALM BEACH COUNTY PROJECT NUMBER 2017051  
PALM BEACH COUNTY, FLORIDA**

**THIS WORK ORDER TO THE ANNUAL CONTRACT R2018-0208**, is made and entered into this \_\_\_\_ day of \_\_\_\_\_, 2018, 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 March 14, 2017, the **COUNTY** and **CONTRACTOR** entered into an Annual Contract (R2017-0234) to provide for the furnishing and installation of various signal components for traffic control devices on a work order basis; and

**WHEREAS**, on March 13, 2018, the **COUNTY** approved the First Amendment (R2018-0208) to the Annual Contract to extend Annual Contract’s expiration date from March 13, 2018 to March 13, 2019 (“**CONTRACT**”); and

**WHEREAS**, the **COUNTY** desires the **CONTRACTOR** to construct a mast arm traffic signal to replace the existing span wire structure at the intersection of Lantana Road and Bentbrook Boulevard/Gateview Terrace, Palm Beach County Intersection ID Number 40015, (“**PROJECT**”); and

**WHEREAS**, the **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 \$250,002.60 has been calculated by **COUNTY** and found to be appropriate compensation for the services to be performed by the **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 CONTRACTOR agrees to provide services for the PROJECT in accordance with the CONTRACT and as further described in Exhibits "A" and "B"; and
2. The COUNTY agrees to pay the CONTRACTOR a fee not to exceed \$250,002.60 to construct the PROJECT. Final payment shall be per documented quantities installed.

Except as amended or modified, all other terms and conditions of the CONTRACT (R2018-0208) dated March 13, 2018 shall remain in full force and effect.

IN WITNESS WHEREOF, the parties hereto have made and executed this WORK ORDER as of the day and year first above written.

OWNER:

Palm Beach County, Florida
by its Board of County Commissioners

BY: \_\_\_\_\_
Melissa McKinlay, Mayor

CONTRACTOR:

Gerelco Traffic Controls, Inc.
a Florida Corporation

BY: \_\_\_\_\_
Kenneth A. Geremia, Jr., President

ATTEST:

Sharon R. Bock, Clerk & Comptroller
Circuit Court

BY: \_\_\_\_\_
Deputy Clerk

SEAL

CORPORATE SEAL

WITNESS:

BY: \_\_\_\_\_
Brandy Coble
(Printed Name)

APPROVED AS TO TERMS
AND CONDITIONS:

BY: \_\_\_\_\_
Tanya N. McConnell
(Printed Name)

BY: \_\_\_\_\_
Millie Barbosa
(Printed Name)

APPROVED AS TO FORM & LEGAL
SUFFICIENCY:

BY: \_\_\_\_\_
Yelizaveta B. Herman
Assistant County Attorney

EXHIBIT "A"

PALM BEACH COUNTY ENGINEERING & PUBLIC WORKS

TRAFFIC DIVISION WORK ORDER / ANNUAL CONTRACT R2018- 0208

PROJECT NAME: Lantana Road and Bentbrook Boulevard/Gateview Terrace  
(PBC Intersection 40015)  
BUDGET LINE ITEM: 1201-360-3224-170-6408  
KDO NUMBER: KDO 360 EN011818-112  
PBC ENGINEERING ANNUAL PROJECT NUMBER: 2017051  
PBC ENGINEERING SIGNAL PROJECT NUMBER: 2017706  
PBC TRAFFIC DIVISION SIGNAL CONTRACT PROJECT NUMBER: 2017-57  
WORK ORDER NUMBER: 7G  
DATE: 2/20/18 COMMISSION DISTRICT: 3

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

In accordance with the terms of your contract dated March 13, 2018, you are directed to provide the following supplies and services: Provide for the furnishing and installation of a mast arm traffic signal to replace existing span wire structure as shown on the Signal Plan on pages 1 thru 5, and Bidtab, dated December 15, 2017.

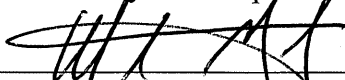
The above work shall be performed at: Lantana Road and Bentbrook Boulevard/Gateview Terrace (PBC Intersection 40015).

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 \$250,002.60, which includes \$41,667.10 contingency (See attached bidtab for quantities). Final payment shall be per documented quantities installed. The Small Business Enterprise (SBE) goal for this contract is 23.1%. The estimated SBE Participation for this Work Order is 35.9%. The total SBE participation to date for this Contract is 17.7%.

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

Fattoush Jafar, P.E., Ph.D., Senior Professional Engineer (561) 684-4030  
Name Title Telephone

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

 President 772 346 7474  
Name Kenneth A. Geremia, Jr. 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

**SCHEDULE 1  
LIST OF PROPOSED SBE-M/WBE PRIME AND/OR SUBCONTRACTOR PARTICIPATION**

PROJECT NAME OR BID NAME: Lantana / Bentbrook PROJECT NO. OR BID NO.: 2017-51  
 NAME OF PRIME BIDDER: Gerke Traffic Controls, Inc ADDRESS: 560 Ww Enterprise Dr. PSL, FL 34986  
 CONTACT PERSON: John Richter PHONE NO.: 772-340-7474 FAX NO.: \_\_\_\_\_  
 BID OPENING DATE: \_\_\_\_\_ USER DEPARTMENT: \_\_\_\_\_

THIS DOCUMENT IS TO BE COMPLETED BY THE PRIME CONTRACTOR AND SUBMITTED WITH BID PACKET. PLEASE LIST THE NAME, CONTACT INFORMATION, AND DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY ALL SBE-M/WBE SUBCONTRACTORS ON THIS PROJECT. IF THE PRIME IS AN SBE-M/WBE, PLEASE ALSO LIST THE NAME, CONTACT INFORMATION, AND DOLLAR AMOUNT OR PERCENTAGE OF WORK TO BE COMPLETED BY THE PRIME ON THIS PROJECT. THE PRIME AFFIRMS THAT IT WILL MONITOR THE SBES LISTED TO ENSURE THE SBES PERFORM THE WORK WITH ITS OWN FORCES.

Name, Address and Phone Number	(Check one or both Categories)		DOLLAR AMOUNT OR PERCENTAGE OF WORK				
	M/WBE	SBE	Black	Hispanic	Women	Caucasian	Other (Please Specify)
1. T. I Electric	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____	_____	_____	_____	74,569
2.	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
2.	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
3.	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____
4.	<input type="checkbox"/>	<input type="checkbox"/>	_____	_____	_____	_____	_____

(Please use additional sheets, if necessary)

Total \_\_\_\_\_

Total Bid Price: \$ 208,335.50 Total SBE-M/WBE Participation Dollar Amount or Percentage of Work: \$ 74,569

I hereby certify that the above information accurate to the best of my knowledge:  
 Signature: J. R. Title: Project Manager Date: 2/22/18

- Note:
- The amount listed on this form for a subcontractor must be supported by price or percentage listed on the signed Schedule 2 or signed proposal in order to be counted toward goal attainment.
  - Firms may be certified by Palm Beach County as an SBE and/or M/WBE. If firms are certified as both an SBE and M/WBE, please indicate the dollar amount or percentage under the appropriate category.
  - M/WBE information is being collected for tracking purposes only.

**OSBA SCHEDULE 2  
LETTER OF INTENT TO PERFORM AS AN SBE-M/WBE SUBCONTRACTOR**

This document must be completed by the SBE-M/WBE Subcontractor and submitted with bid packet. Specify in detail, the particular work items to be performed and the dollar amount and/or percentage for each work item. SBE credit will only be given for items which the SBE-M/WBE Subcontractor is SBE certified to perform. Failure to properly complete Schedule 2 may result in your SBE participation not being counted.

PROJECT NUMBER: 2017-57 PROJECT NAME: Lantana Rd / Bentbrook Rd  
TO: Cereto Traffic Control  
(Name of Prime Bidder)

The undersigned is certified by Palm Beach County as a (check one or more, as applicable):

Small Business Enterprise  Minority Business Enterprise \_\_\_\_\_  
Black \_\_\_\_\_ Hispanic \_\_\_\_\_ Women \_\_\_\_\_ Caucasian \_\_\_\_\_ Other (Please Specify) \_\_\_\_\_

Date of Palm Beach County Certification: \_\_\_\_\_

The undersigned is prepared to perform the following described work in connection with the above project (additional sheets may be used as necessary):

Line Item/ Lot No. Item Description	Qty./Units	Unit Price	Total Price/ Percentage
<u>649-31-107 Mastarm D3-S22</u>	<u>3</u>	<u>17,603</u>	<u>52,809</u>
<u>649-31-108 Mastarm D5-S23</u>	<u>1</u>	<u>21,761</u>	<u>21,761</u>

at the following price or percentage: 74,569  
(Subcontractor's Quote)

and will enter into a formal agreement for work with you conditioned upon your execution of a contract with Palm Beach County.

If undersigned intends to subcontract any portion of this job to a certified SBE or a non-SBE subcontractor, please list the name of the subcontractor and the amount below.

Price and/or Percentage \_\_\_\_\_ / \_\_\_\_\_  
(Name of Subcontractor)

The Prime affirms that it will monitor the SBE's listed to ensure the SBE's perform the work with its own forces. The undersigned subcontractor affirms that it has the resources necessary to perform the work listed without subcontracting to non-certified SBE or any other certified SBE subcontractors except as noted above.

The undersigned subcontractor understands that the provision of this form to Prime Bidder does not prevent Subcontractor from providing quotations to other bidders.

Cereto Traffic Control  
Print Name of Prime Contractor

TJ Electric USA Inc  
Print Name of SBE-M/WBE Subcontractor

By: [Signature]  
Signature

By: [Signature]  
Signature

Jack Ridinger / Project Manager  
Print Name/Title of Person Executing on Behalf of  
Prime Contractor

Kimush Mahabir - President  
Print Name/Title of Person Executing on Behalf of  
SBE/M/WBE Subcontractor

Revised 10/11/2011

Date: 2/6/2018





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

**GERELCO BIDTAB  
 CONTRACT  
 #2017051**

**DATE: 12/15/2017 CONTRACT NO. #: 2017-57**

**INTERSECTION: Lantana Rd and Benbrook Blvd/Gateview Ter**  
**INTERSECTION NO. # 40015**

ITEM NO.#	PRODUCT NAME	QTY	PRICE	LINE TOTAL
102-1-A	GENERAL MAINTENANCE OF TRAFFIC - [HR] [F&I]	16	\$126.00	\$2,016.00
630-2-11-2	2" PVC (SCH 40) UNDERGROUND CONDUIT - [LF] [F&I]	298	\$8.00	\$2,384.00
630-2-11-2A	ADDITIONAL 2" PVC (SCH 40) CONDUIT, IN OPEN TRENCH - [LF] [F&I]	315	\$2.50	\$787.50
630-2-12-2-5	5-2" (HDPE SDR 11) UNDER PAVEMENT CONDUIT (DIRECTIONAL BORE) - [LF] [F&I]	550	\$30.00	\$16,500.00
632-7-1-19F	SIGNAL CABLE (SPAN LENGTH 651' - 750') - [PI] [F&I]	1	\$3,600.00	\$3,600.00
632-7-1-4A	PEDESTRIAN SIGNAL CABLE - 4 CONDUCTOR - [PI] [F&I]	1	\$1,063.00	\$1,063.00
632-7-1-7A	PEDESTRIAN SIGNAL CABLE - 7 CONDUCTOR - [PI] [F&I]	1	\$2,809.00	\$2,809.00
635-2-12-A	PULL BOX (17" x 30" x 12"D) HEAVY DUTY COVERS - [EA] [F&I]	20	\$850.00	\$17,000.00
635-2-13-A	PULL BOX (30" x 48" x 24"D) HEAVY DUTY SPLIT COVERS (ITS) - [EA] [F&I]	1	\$1,835.00	\$1,835.00
639-1-123	ELECTRICAL POWER SERVICE (UNDERGROUND) - [AS] [F&I]	1	\$850.00	\$850.00
639-2-1	ELECTRICAL SERVICE WIRE (SINGLE PHASE 3-WIRE, TRIPLEX) - [LF] [F&I]	60	\$2.30	\$138.00
639-3-11	ELECTRICAL SERVICE DISCONNECT - [EA] [F&I]	1	\$325.00	\$325.00
641-2-12-12	PRESTRESSED CONCRETE POLE (12' TYPE P-II) - [EA] [F&I]	1	\$750.00	\$750.00
641-2-70A	CONCRETE POLE REMOVAL - SHALLOW (INCLUDES POLE AND BURIED ATTACHMENTS TO A DEPTH OF 4	4	\$2,465.00	\$9,860.00
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL WITH TRANSFORMER BASE (8 FEET ABOVE GROUND) - [EA]	8	\$770.00	\$6,160.00
649-31-107	MAST ARM ASSY D3-S22 46' W/LUM (POWDER COATED FINISH) - [EA] [F&I]	3	\$27,567.00	\$82,701.00
649-31-108	MAST ARM ASSY D5-S23 60' W/LUM (POWDER COATED FINISH) - [EA] [F&I]	1	\$31,318.00	\$31,318.00
649-38-000-E	ADDITIONAL DEPTH FOR MAST ARM ASSEMBLY FOUNDATION (WHEN SPECIFIED BY ENGINEER) - [LF]	1	\$650.00	\$650.00
650-1-13	TRAFFIC SIGNAL HEAD ALUMINUM (3-SECTION, 1-WAY) INCLUDES BACKPLATES - [AS] [F&I]	6	\$900.00	\$5,400.00
650-1-14	TRAFFIC SIGNAL HEAD ALUMINUM (4-SECTION, 1-WAY) INCLUDES BACKPLATES - [AS] [F&I]	2	\$1,020.00	\$2,040.00
650-1-15	TRAFFIC SIGNAL HEAD ALUMINUM (5-SECTION, 1-WAY) INCLUDES BACKPLATES - [AS] [F&I]	2	\$1,350.00	\$2,700.00
650-1-70	TRAFFIC SIGNAL HEAD ASSEMBLY, REMOVAL - [EA] [R]	9	\$95.00	\$855.00

DATE: 12/15/2017

CONTRACT NO.:#

2017-57

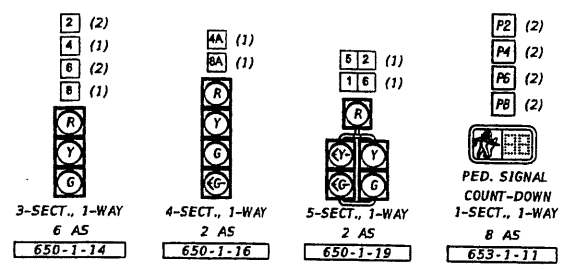
INTERSECTION: Lantana Rd and Bentbrook Blvd/Gateview Ter  
 INTERSECTION NO. # 40015

ITEM NO.#	PRODUCT NAME	QTY	PRICE	LINE TOTAL
653-191	PEDESTRIAN SIGNAL - COUNT DOWN (1-WAY) ALUMINUM - [EA] [F&I]	8	\$650.00	\$5,200.00
660-4-30-A4	VIDEO IMAGE DETECTION 4 - CAMERA SYSTEM (AUTOSCOPE) - [EA] [ I ]	1	\$1,280.00	\$1,280.00
665-1-11	PEDESTRIAN DETECTOR (PUSH BUTTON) - [EA] [F&I]	8	\$95.00	\$760.00
670-5-310	TRAFFIC CONTROLLER ASSEMBLY (TYPE 5 - INSTALL ONLY) - [AS] [ I ]	1	\$2,850.00	\$2,850.00
690-20	SIGNAL PEDESTRIAN ASSEMBLY, REMOVAL - [EA] [R]	8	\$46.00	\$368.00
690-31-1	SIGNAL PEDESTAL, REMOVE - [EA] [R]	4	\$75.00	\$300.00
690-50-0	REMOVE CONTROLLER ASSEMBLY COMPLETE WITH FOUNDATION - INCLUDES DELIVERY OF REMOVED	1	\$1,250.00	\$1,250.00
690-70	REMOVE PEDESTRIAN DETECTOR ASSEMBLY - [EA] [R]	8	\$12.00	\$96.00
690-80	REMOVE SPAN WIRE ASSEMBLY - [PI] [R]	1	\$1,250.00	\$1,250.00
700-5-42	INTERNALLY ILLUMINATED SIGN (8') INSTALL ONLY - [EA] [ I ]	4	\$750.00	\$3,000.00
715-5-50	LUMINAIRE & BRACKET ARM - REMOVE - [EA] [R]	4	\$60.00	\$240.00

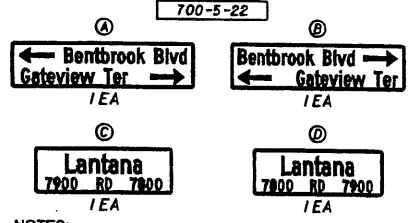
**TOTAL: \$208,335.50**

Comments: Signal Modification / New Mast Arms

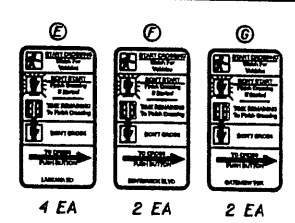
**SIGNAL HEAD DETAILS**



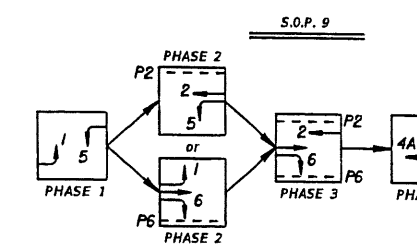
**PROPOSED ILLUMINATED SIGNS**



**PEDESTRIAN DETECTOR SIGNS**



NOTES:  
1. CONTRACTOR TO PROVIDE SIGNED AND SEALED COPY OF PLANS AND CALCULATIONS SUPPORTING THE USE OF APPROPRIATE MOUNTING HARDWARE FOR SHOP DRAWING REVIEW AND APPROVAL.

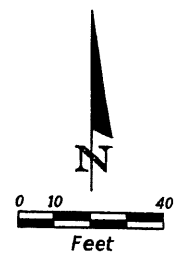
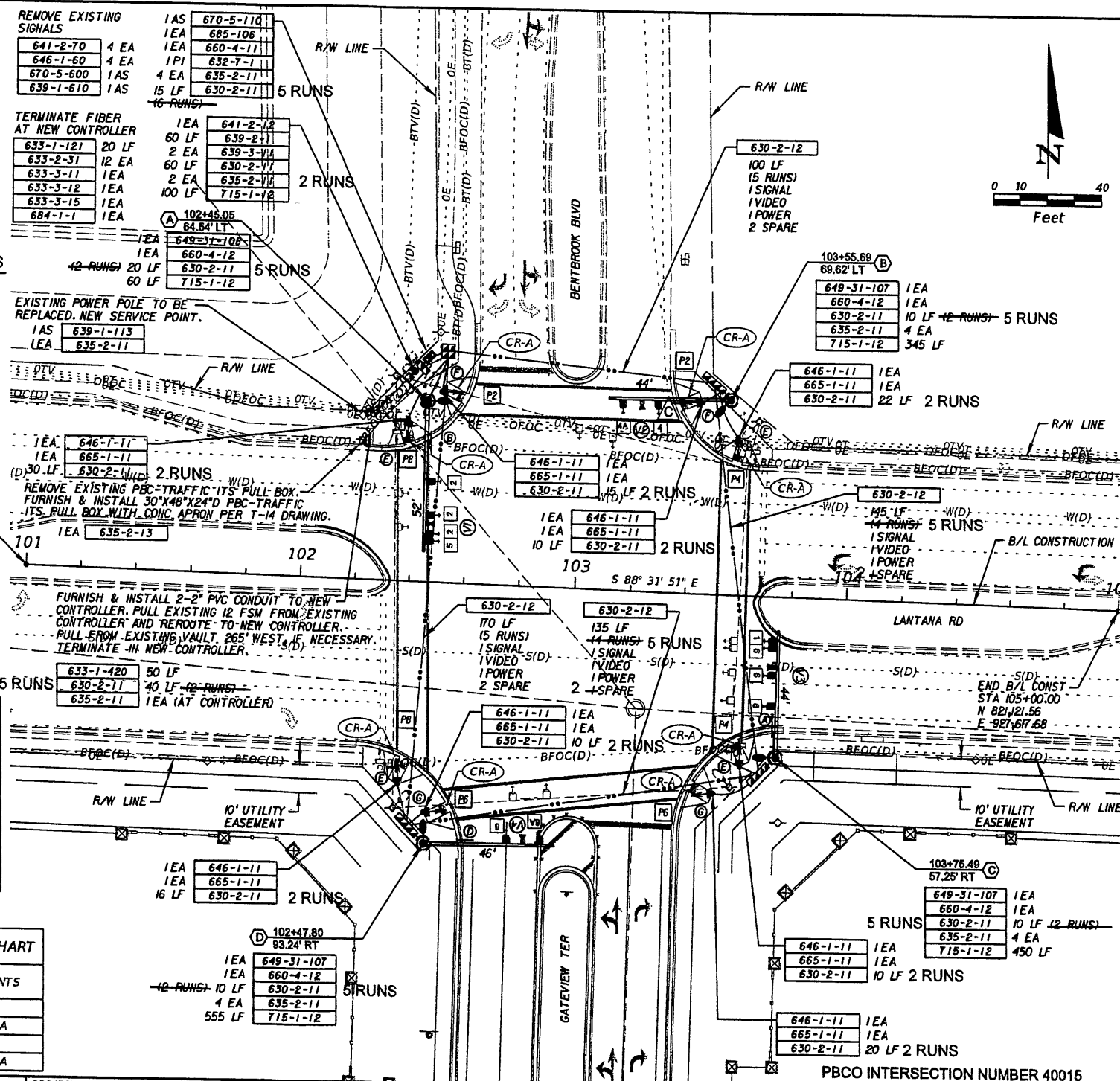


**CONTROLLER TIMINGS**

TIMING FUNCTION	1	2	3	4	5	6	7	8
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
MINIMUM GREEN	4	20		6	4	20		6
EXTENSION	2	4		2	2	4		2
MAXIMUM GREEN 1	15	65		25	15	65		25
MAXIMUM GREEN 2								
YELLOW CLEARANCE	4	4		4	4	4		4
ALL RED	1	1		2	1	1		2
PEDESTRIAN WALK	7	7		7	7	7		7
PED. CLEARANCE	20	20		20	20	23		23
RECALL		X				X		

**VIDEO DETECTOR CHART**

DETECTOR NO.	MOVEMENTS
V-1	2, 5
V-2	4, 4A
V-3	1, 6
V-4	8, 8A



Page 1 of 5

SIGNAL PLAN

**MCMANON**  
2050 PALM BEACH LAKES BLVD, SUITE 400 1561 940-8650  
WEST PALM BEACH, FL 33409 FAX 1561 940-8590  
CERTIFICATE OF AUTHORIZATION NO. 4906  
E.O.R. R. TRENT EBERSOLE, P.E.  
P.E. NO. 6438

OWNER: Lantana Farm Associates, Inc.	PROJECT: LANTANA FARMS P.U.D.
Lantana Farm Consultants, Inc.	
P.O. BOX 541779	
Lake Worth, Fl. 33454-1779	PALM BEACH COUNTY FLORIDA

TASK: SIGNALIZATION PLAN

DESIGNED BY: JQH	SEALED:
DRAWN BY: JQH	
CHECKED BY: RTE	
AUGUST 2016	

PBCO INTERSECTION NUMBER 40015

NO.	DATE	BY	REVISIONS DESCRIPTION

SHEET NO. T-5

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



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	(2) FAA (ft.)	(2) 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 (in.)
A	D5-S23	D5	27.8	9.11				90	S23		22								
B	D3-S22	D3	34.1	9.23				45	S22		21		12.5	4.5	11	15	10	12	
C	D3-S22	D3	34.1	9.23				90	S22		21		12.5	4.5	11	15	10	12	
D	D3-S22	D3						90	S22		21								

TABLE NOTES:

- 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#

- 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".
- 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".
- 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.

Classification = Cohesionless (Fine Sand)  
 Friction Angle = 30 Degrees (30°)  
 Unit Weight = 50 lbs. / cu. ft. (assumed submerged)  
 N-blowcount = 15

GENERAL NOTES:

- Work this sheet with the Signal Designer's "Mast Arm Tabulation". See "Mast Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement, and pedestrian features.
- Work with Index Nos. 17743 and 17745.
- Design Wind Speed = 150 mph
- Contractor shall coordinate anchor bolt requirements with fabricator.
- Contractor shall identify Structures Numbers and submit detailed shop drawings.

FOUNDATION NOTES:

- Design based on Borings taken on 5/22/2008 sealed by Ryan Bridger, P.E., ECS LLC

- Assumptions and Values used in design:

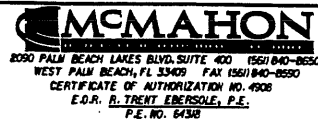
Mast Arm Structure A (Boring B-1)  
 Soil Type = Fill; SM / SC / SP  
 Soil Layer Thickness = 14 ft.  
 Soil Friction Angle = 30 deg.  
 Submerged Soil Unit Weight = 57.6 pcf  
 Weighted N value = 13.43  
 Design Water Table is 6.5 ft. below surface

Mast Arm Structure B (Boring B-2)  
 Soil Type = Fill; SP / SM / SP  
 Soil Layer Thickness = 12 ft.  
 Soil Friction Angle = 30 deg.  
 Submerged Soil Unit Weight = 57.6 pcf  
 Weighted N value = 8.67  
 Design Water Table is 5.5 ft. below surface

Mast Arm Structure C (Boring B-3)  
 Soil Type = Fill; SP / SM / SP  
 Soil Layer Thickness = 12 ft.  
 Soil Friction Angle = 30 deg.  
 Submerged Soil Unit Weight = 57.6 pcf  
 Weighted N value = 16.50  
 Design Water Table is 6.5 ft. below surface

Mast Arm Structure D (Boring B-4)  
 Soil Type = Fill; SP / SM / SC / SP  
 Soil Layer Thickness = 12 ft.  
 Soil Friction Angle = 30 deg.  
 Submerged Soil Unit Weight = 57.6 pcf  
 Weighted N value = 13.83  
 Design Water Table is 6.5 ft. below surface

PBCO INTERSECTION NUMBER 40015



OWNER: Lantana Farm Associates, Inc.	PROJECT: LANTANA FARMS P.U.D.
Lantana Farm Consultants, Inc.	
P.O. BOX 541779	
Lake Worth, Fl. 33454-1779	PALM BEACH COUNTY FLORIDA

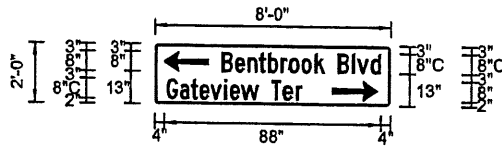
TASK: MAST ARM ASSEMBLIES DATA TABLE	DESIGNED BY: JDH	SEALED:
	DRAWN BY: JDH	
	CHECKED BY: RTE	
	AUGUST 2016	

REVISIONS			
NO.	DATE	BY	DESCRIPTION

SHEET NO. T-7

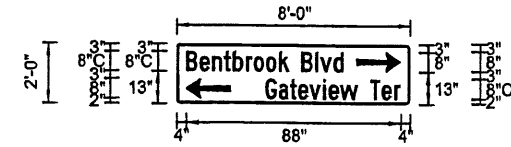


SIGN NAME	A	STATION(S)			
QUANTITY	1	/	none		
WIDTH	8'-0"	2			
HEIGHT	2'-0"	3			
BORDER WIDTH	1"	4			
BORDER RADII	1.5"	5			
PANEL COLOR	White				
LEGEND	Green				
BORDER	White				
SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type A - Extended	90	4	13	8	18.4
AR_Type A - Extended	270	72.6	2	8	18.4
SIGN NUMBER					
CLEARANCE EDGE OF LAKE					
COLUMN SIZE					
AVERAGE LENGTH					



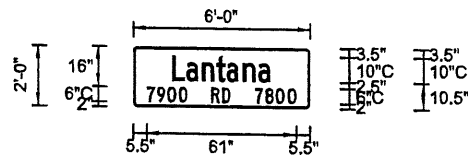
COPY	B	e	n	t	b	r	o	o	k	B	l	v	d	L	
SPACB	27.6	33.1	38.2	43	46.7	52	55.2	60.3	65.6	69.9	74.9	80.6	82.6	87.9	64.4
COPY	G	a	t	e	v	i	e	w	T	e	r	L			
SPACB	5	10.5	15.1	18.5	23.1	28.7	31	35.6	43.1	48.1	52.9	58	55.6		
COPY															
SPACB															
COPY															
SPACB															
COPY															
SPACB															
COPY															
SPACB															
COPY															
SPACB															

SIGN NAME	B	STATION(S)			
QUANTITY	1	/	none		
WIDTH	8'-0"	2			
HEIGHT	2'-0"	3			
BORDER WIDTH	1"	4			
BORDER RADII	1.5"	5			
PANEL COLOR	White				
LEGEND	Green				
BORDER	White				
SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type A - Extended	270	73.6	13	8	18.4
AR_Type A - Extended	90	4	2	8	18.4
SIGN NUMBER					
CLEARANCE EDGE OF LAKE					
COLUMN SIZE					
AVERAGE LENGTH					



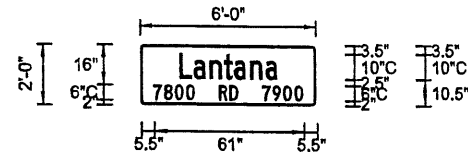
COPY	B	e	n	t	b	r	o	o	k	B	l	v	d	L	
SPACB	4	9.4	14.6	19.4	23	28.3	31.6	36.6	41.9	46.2	51.2	56.9	58.9	64.3	64.4
COPY	G	a	t	e	v	i	e	w	T	e	r	L			
SPACB	36.4	41.9	46.4	49.9	54.4	60	62.4	66.9	74.4	79.4	84.2	89.4	55.6		
COPY															
SPACB															
COPY															
SPACB															
COPY															
SPACB															
COPY															
SPACB															
COPY															
SPACB															

SIGN NAME	C	STATION(S)			
QUANTITY	1	/	none		
WIDTH	6'-0"	2			
HEIGHT	2'-0"	3			
BORDER WIDTH	1"	4			
BORDER RADII	1.5"	5			
PANEL COLOR	Green				
LEGEND	White				
BORDER	White				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER					
CLEARANCE EDGE OF LAKE					
COLUMN SIZE					
AVERAGE LENGTH					

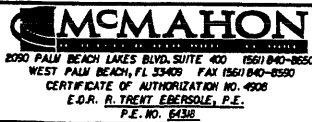


COPY	L	a	n	t	a	n	a	L
SPACB	16	21.8	28.3	34.3	38.4	44.9	51.2	40
COPY	7	9	0	0	L			
SPACB	5.5	9.8	14	18.6	16.7			
COPY	R	D	L					
SPACB	32.1	36.5	7.7					
COPY	7	9	0	0	L			
SPACB	49.8	54.1	58.3	63	16.7			
COPY								
SPACB								
COPY								
SPACB								

SIGN NAME	D	STATION(S)			
QUANTITY	1	/	none		
WIDTH	6'-0"	2			
HEIGHT	2'-0"	3			
BORDER WIDTH	1"	4			
BORDER RADII	1.5"	5			
PANEL COLOR	Green				
LEGEND	White				
BORDER	White				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER					
CLEARANCE EDGE OF LAKE					
COLUMN SIZE					
AVERAGE LENGTH					



COPY	L	a	n	t	a	n	a	L
SPACB	16	21.8	28.3	34.3	38.4	44.9	51.2	40
COPY	7	9	0	0	L			
SPACB	5.5	9.8	14	18.6	16.7			
COPY	R	D	L					
SPACB	32.1	36.5	7.7					
COPY	7	9	0	0	L			
SPACB	49.8	54.1	58.3	63	16.7			
COPY								
SPACB								
COPY								
SPACB								



OWNER:	Lantana Farm Associates, Inc.	PROJECT:	LANTANA FARMS P.U.D.
	Lantana Farm Consultants, Inc.		
	P.O. BOX 541779		
	Lake Worth, Fl. 33454-1779	PALM BEACH COUNTY	FLORIDA

TASK:	GUIDE SIGN DETAIL
DESIGNED BY:	NZ
DRAWN BY:	NZ
CHECKED BY:	RTE
	AUGUST 2016

SEALED:			
REVISIONS			
NO.	DATE	BY	DESCRIPTION

SHEET NO.	T-9
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PBCO INTERSECTION NUMBER 40015