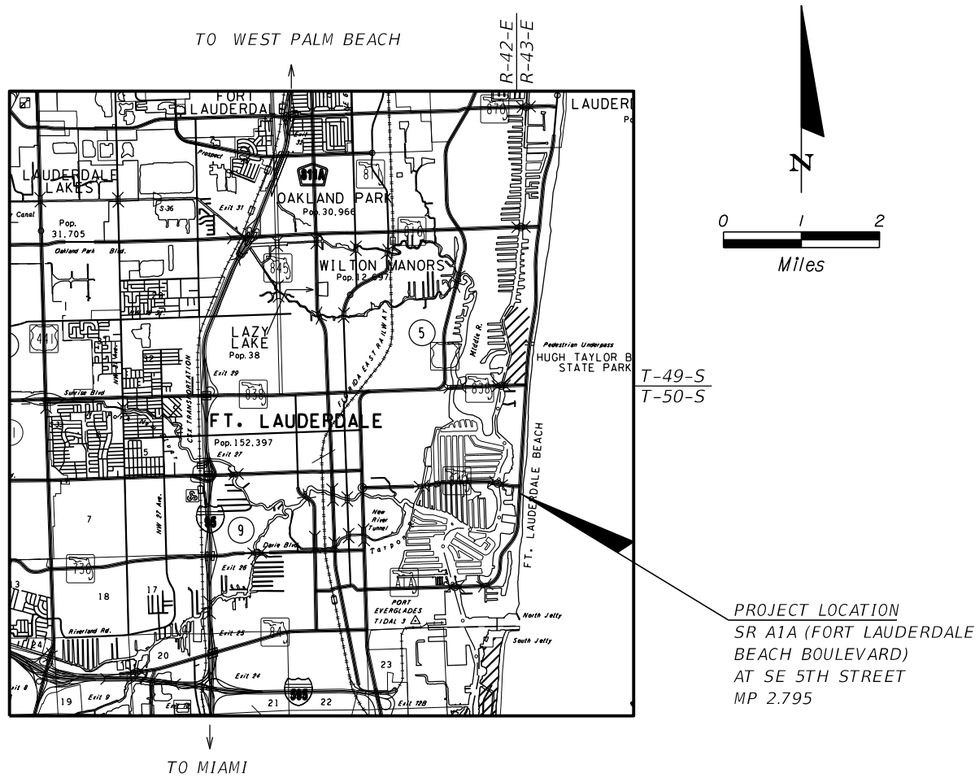

SR A1A (FORT LAUDERDALE BEACH BOULEVARD) (86180) AT SE 5 STREET

SIGNALIZATION PLANS

INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET AND TABULATION OF QUANTITIES
2	SIGNATURE SHEET
3	GENERAL NOTES
4	TEMPORARY TRAFFIC CONTROL NOTES
5	SIGNALIZATION PLAN
6	GUIDE SIGN WORKSHEET
7	MAST ARM TABULATION SHEET
8	ULTIMATE LOADING
9	MAST ARM ELEVATION
10-11	MAST ARM DETAILS
12	UTILITY LOCATION PLAN
UTV-1	VERIFIED UTILITY LOCATE SHEET
CTL-1	PROJECT CONTROL
GT-1	REPORT OF CORE BORINGS

PLANS PREPARED BY:

DRMP, INC.
6853 SW 18TH STREET, SUITE 310
BOCA RATON, FL, 33433
PHONE: (561) 451-8124 FAX: (561) 451-8142

CONTRACT NO. C-9W15
VENDOR NO. 591791174001

SIGNALIZATION PLANS
ENGINEER OF RECORD: CHRISTINE DALICKAS, P.E. LICENSE NO. 62423
FDOT PROJECT MANAGER: DANI GOODWIN, P.E.

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

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION, 2020-21 STANDARD PLANS AND REVISED INDEX DRAWINGS AS APPENDED HEREIN, AND 2021 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS.

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	GRAND TOTAL UNIT	PLAN	FINAL
102-14	TRAFFIC CONTROL OFFICER	HR	32	
102-60	WORK ZONE SIGN	ED	510	
102-74-1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM AND LCD	ED	855	
102-76	ARROW BOARD/ADVANCE WARNING ARROW PANEL	ED	45	
102-99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	118	
102-115	TYPE III BARRICADE	ED	8	
110-4-10	REMOVAL OF EXISTING CONCRETE	SY	33	
522-1	SIDEWALK CONCRETE, 4" THICK	SY	33	
526-1-2	PAVERS, ARCHITECTURAL, SIDEWALK	SY	33	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	15	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	232	
632-7-1	SIGNAL CABLE - NEW OR RECONSTRUCTED FURNISH & INSTALL	PI	1	
632-7-6	SIGNAL CABLE - REMOVE- INTERSECTION	PI	1	
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	12	
646-1-11	ALUMINUM SIGNAL POLE, FURNISH & INSTALL PEDESTAL	EA	1	
649-21-128	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, 40' TROMBONE STYLE	EA	1	
	PROJECT 436219-3-72-02 AND -05			
649-21-129	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, 50' TROMBONE STYLE	EA	1	
	PROJECT 436219-3-72-02 AND -05			
649-26-3	STEEL MAST ARM ASSEMBLY, REMOVE-SHALLOW FOUNDATION BOLT ON ATTACHMENT	EA	1	
650-1-14	TRAFFIC SIGNAL, FURNISH & INSTALL, ALUMINUM 3 SECTION, 1 WAY	AS	4	
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL, LED COUNTDOWN, 1 WAY	AS	1	
660-4-11	VIDEO DETECTION SYSTEM-VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA	1	
660-4-12	VIDEO DETECTION SYSTEM-VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA	2	
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	1	
670-5-400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS	1	
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	1	
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT,	EA	1	
	12-18 SF			
700-5-50	INTERNALLY ILLUMINATED SIGN, RELOCATE	EA	1	
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO. 4 TO NO. 2	LF	347	

REVISIONS:
1 Sheets 3, 11 (Revised 4/7/21)

CAM 21-0283
Exhibit 3
Page 1 of 15

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DRMP, INC.
6853 SW 18th Street, Ste. 310, Boca Raton, FL 33433
Phone: (561) 451-8124 Fax: (561) 451-8142
12
CHRISTINE DALICKAS, P.E.
LICENSE NUMBER 62423

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR A1A	BROWARD	436219-3-72-04 436219-3-72-05

KEY SHEET AND TABULATION OF QUANTITIES

SHEET NO. 1

CHRISTINE DALICKAS
LICENSE
No 62423
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

THIS DOCUMENT 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. THE SIGNATURE MUST BE VERIFIED ON THE ELECTRONIC DOCUMENTS.

DRMP, INC.
6853 SW 18TH STREET, SUITE 310
BOCA RATON, FL 33433
CHRISTINE DALICKAS, P.E. NO 62423

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

SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET AND TABULATION OF QUANTITIES
2	SIGNATURE SHEET
3	GENERAL NOTES
4	TEMPORARY TRAFFIC CONTROL NOTES
5	SIGNALIZATION PLAN
6	GUIDE SIGN WORKSHEET
7	MAST ARM TABULATION SHEET
8	ULTIMATE LOADING
12	UTILITY LOCATION PLAN

JOCELYN M. HAISCH-LINN
LICENSE
No 60103
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

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DRMP, INC.
941 LAKE BALDWIN LANE
ORLANDO, FL 32814
JOCELYN M. HAISCH-LINN, P.E. NO 60103

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SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
9	MAST ARM ELEVATION
10-11	MAST ARM DETAILS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DRMP, INC.
6853 SW 18th Street, Ste. 310, Boca Raton, FL 33433
Phone: (561) 451-8124 Fax: (561) 451-8142

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR A1A	BROWARD	436219-3-72-04 436219-3-72-05

SIGNATURE SHEET

SHEET NO. 2

GENERAL NOTES:

1. UTILITY OWNERS:

COMPANY	CONTACT	TELEPHONE NUMBERS
AT&T DISTRIBUTION	OTIS KEEVE	954-309-0753
BCTED-COPPER INTERCONNECT CABLE AND FIBER OPTIC CABLE	ROBERT BLOUNT	954-847-2745
COMCAST CABLE	LEONARD MAXWELL-NEWBOLD	954-447-8405
CITY OF FORT LAUDERDALE	RICK JOHNSON	954-828-7809
	GARRY BRANDY	954-828-7864
CROWN CASTLE NG	DANNY HASKETT	786-610-7073
FPL DISTRIBUTION	BYRON SAMPLE	954-321-2056
HOTWIRE COMMUNICATIONS	WALTER DAVILA	954-699-0900
MCI	INVESTIGATIONS	469-886-4091
TECO PEOPLES GAS	DAVID RIVERA	954-453-0794

2. THE CONTRACTOR SHALL CONTACT THE CITY OF FORT LAUDERDALE AND CITY OF FORT LAUDERDALE POLICE DEPARTMENT FOURTEEN (14) DAYS IN ADVANCE OF BEGINNING CONSTRUCTION. CONTACT THE CITY OF FORT LAUDERDALE AT 954-828-5000, CITY OF FORT LAUDERDALE POLICE DEPARTMENT AT 954-828-5700.

3. THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED ITS COMMUNICATIONS EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED). ALL TRAFFIC SIGNAL AND RELATED ITS COMMUNICATION EQUIPMENT WHEN USING PAY ITEM SERIES: 632, 650, 653, AND 670 FOR THIS CONTRACT SHALL BE COMPATIBLE WITH BCTED'S CENTRAL COMPUTER NETWORK SYSTEM. PRIOR TO ANY PURCHASING OF THE ABOVE PRODUCTS, ENSURE THEY HAVE BEEN APPROVED FOR SYSTEM COMPATIBILITY BY THE MAINTAINING AGENCY.

4. ALL STANDARD SIGNAL PULL BOXES SHALL BE STAMPED "TRAFFIC SIGNAL" ON THE COVER.

5. PROJECT ADMINISTRATOR TO CONTACT THE DISTRICT FOUR STRUCTURES MAINTENANCE OFFICE FOR A STRUCTURAL INSPECTION BEFORE FINAL ACCEPTANCE. THE CONTRACTOR SHALL PROVIDE A 30 DAY ADVANCE NOTICE TO DISTRICT FOUR STRUCTURES MAINTENANCE OFFICE FOR PRECONSTRUCTION MEETING, PRE-ACTIVITY MEETING AND FINAL INSPECTIONS.

6. THE CONTRACTOR SHALL CONTACT THE FDOT PROJECT ADMINISTRATOR FOR ALL SIGNALIZATION INSPECTIONS FROM BROWARD OPERATIONS AT 954-776-4300 AND FDOT PROJECT ADMINISTRATOR FROM PALM BEACH OPERATIONS CENTER AT (561) 370-1262.

7. PRIOR TO BEGINNING CONSTRUCTION, CONTRACTOR SHALL PROVIDE WRITTEN NOTICE OF COMMENCEMENT, VIA E-MAIL, TO TEINSPECTION@BROWARD.ORG. NOTICE SHALL INCLUDE THE DATE OF COMMENCEMENT, LOCATION AND TYPE OF WORK, AND INFORMATION REGARDING ANY MALFUNCTIONING EQUIPMENT.

8. CONTRACTOR SHALL NOT STOCKPILE MATERIAL EAST OF SR A1A.

9. NO NIGHT TIME LIGHTING CAN BE USED DURING TURTLE NESTING SEASON (MARCH TO OCTOBER) UNLESS SUBMITTED AND APPROVED BY THE ENGINEER AND PERMITTING AGENCY.

PAY ITEM NOTES:

1. 102-60, 102-74-1, 102-76 - TCP ITEMS BASED ON ESTIMATED 45 DAYS TO COMPLETE. TIME DOES NOT INCLUDE INSPECTION AND ACCEPTANCE.

2. 102-99 - TCP ITEMS BASED ON ESTIMATED 59 DAYS TO COMPLETE. TIME DOES NOT INCLUDE INSPECTION AND ACCEPTANCE.

3. 110-4-1 - INCLUDED IN THIS PAY ITEM IS THE SIDEWALK REMOVAL UNDERNEATH THE BRICK PAVERS AND ANY DAMAGED BRICK PAVERS.

4. 522-1 - FOR THE SIDEWALK UNDERNEATH THE BRICK PAVER INSTALLATION.

5. 635-2-11 - INCLUDES THE COST OF REMOVAL OF EXISTING PULL BOX.

6. 649-21-128, 649-21-129 - A GIVEN MAST ARM/POLE ASSEMBLY LOCATION SHALL BE FIELD VERIFIED AND IDENTIFIED AS FREE OF CONFLICTS AND/OR OBJECTS BY THE CONTRACTOR PRIOR TO PROCUREMENT OF THE ASSOCIATED TROMBONE MAST ARM/POLE ASSEMBLY. MAST ARMS SHALL BE INSTALLED PERPENDICULAR TO APPROACH. MAST ARMS ARE TO BE POWDER COATED SOLAR BLACK. COST OF POWDER COATING TO BE BID UNDER PAY ITEMS 0649-21-128 AND 0649-21-129. ⚠ ⚠

7. 649-36-300 - THE CONTRACTOR SHALL DELIVER ALL REMOVED TRAFFIC SIGNAL EQUIPMENT AND GPS EQUIPMENT TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION LOCATED AT: 2300 W COMMERCIAL BLVD., FT. LAUDERDALE, FL 33309. (954) 847-2626. THE CONTRACTOR SHALL CONTACT BCTED (7) FULL WORKING DAYS PRIOR TO DELIVERY.

8. 650-1-14 - A REFLECTIVE BORDER SHALL BE INCLUDED IN ALL BACKPLATES.

9. ALL CONTRACT PAY ITEMS ARE ESTIMATED QUANTITIES. COMPENSATION WILL ONLY BE FOR TASKS, FIELD MEASURED PAY ITEMS, IN PLACE AND ACCEPTED.

COMMUNICATIONS NOTES:

1. THE AGENCY RESPONSIBLE FOR MAINTENANCE OF THE TRAFFIC SIGNALS AND RELATED EQUIPMENT IS BROWARD COUNTY TRAFFIC ENGINEERING DIVISION (BCTED). IF FIBER OPTIC PULL BOXES ALREADY EXIST AT AN INTERSECTION, NO ADDITIONAL FIBER OPTIC PULL BOXES WILL NEED TO BE INSTALLED.

2. IF THERE ARE FIBER OPTIC CABLE/S WITHIN YOUR PROJECT LIMITS OR WITHIN 1500 FEET OF YOUR PROJECT LIMITS CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.

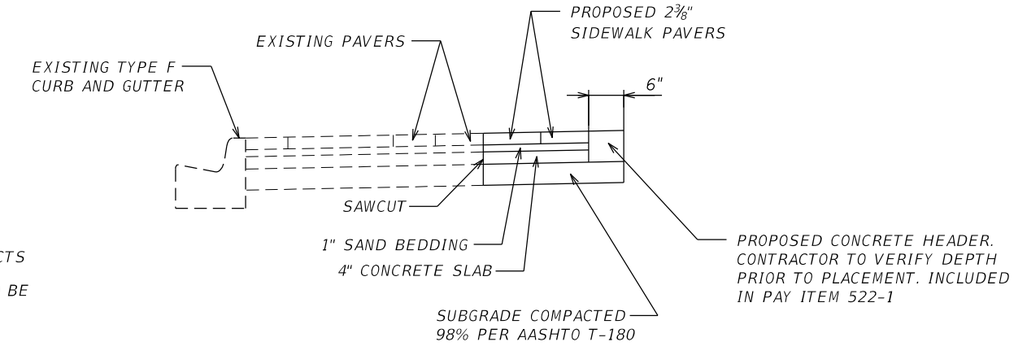
3. IF THERE ARE CELLULAR COMMUNICATIONS WITHIN YOUR PROJECT LIMITS, CONTACT THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG OR 954-847-2745.

4. ALL BCTED COMMUNICATIONS CABLES/CONDUIT SHALL BE LOCATED A MINIMUM OF 48 HOURS IN ADVANCE.

BROWARD COUNTY TRAFFIC ENGINEERING DIVISION
PROCEDURE FOR NOTIFICATION OF COMMUNICATION DISRUPTION

FIBER OPTIC CABLE NOTIFICATION CONTACT PERSON

5. WHEN COMMUNICATIONS TO AN INTERSECTION MUST BE DISRUPTED BY A CONTRACTOR TO PERFORM WORK, THE CONTRACTOR SHALL PROVIDE TWO DAY ADVANCE NOTICE IN WRITING TO THE BROWARD COUNTY TRAFFIC ENGINEERING DIVISION. THIS NOTIFICATION SHALL BE CONVEYED VIA ELECTRONIC MAIL (EMAIL) TO THE COMMUNICATIONS MANAGER AT TECOMMUNICATIONS@BROWARD.ORG. NOTIFICATION SHALL INCLUDE CONTACT PERSON, TELEPHONE NUMBER, PURPOSE, LOCATION AND DURATION. THE DISRUPTION SHALL LAST FOR NO MORE THAN 3 CONSECUTIVE BUSINESS DAYS. WHERE POSSIBLE, THE DISRUPTION SHALL BE DURING OFF PEAK HOURS BEGINNING AT 9:00AM AND ENDING AT 3:00PM.



PAVER DETAIL FOR REPLACING BRICK PAVERS DAMAGED DURING INSTALLATION OR REMOVAL SIGNAL EQUIPMENT

N.T.S.

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
4-7-21	⚠1 REVISED PAY ITEM NOTE.		

DRMP, INC.
6853 SW 18th Street, Ste. 310, Boca Raton, FL 33433
Phone: (561) 451-8124 Fax: (561) 451-8142
14
CHRISTINE DALICKAS, P.E.
LICENSE NUMBER 62423

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR A1A	BROWARD	436219-3-72-04 436219-3-72-05

GENERAL NOTES

SHEET NO. 3

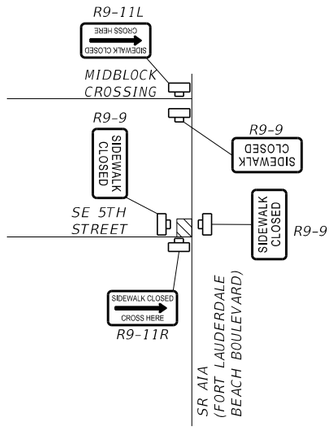
TEMPORARY TRAFFIC CONTROL PLAN:

1. THE CONTRACTOR SHALL NOT PERFORM ANY LANE CLOSURES BETWEEN THE HOURS OF 10:00 AM TO 8:30 PM DURING THE WEEK.
2. THE WORK ZONE SPEED LIMIT SHALL BE EQUAL TO THE EXISTING SPEED LIMITS (30 MPH) ALONG THE ROADWAY IN WHICH THE CONTRACTOR IS PERFORMING HIS WORK.
3. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH FDOT STANDARD PLANS 102-600, 102-613 AND 102-660.
4. PCMS SHALL BE ADDED DURING CONSTRUCTION WHEN DETOURS ARE UTILIZED AND SHALL STATE THE FOLLOWING:

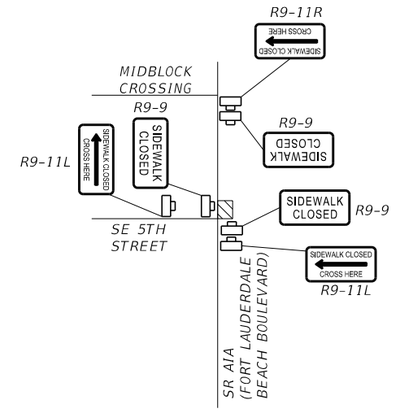
TWO WEEKS PRIOR TO DETOUR:		DURING DETOUR:	
PCMS MESSAGE 1	PCMS MESSAGE 2	PCMS MESSAGE 1	PCMS MESSAGE 2
SR A1A CLOSED	ON "DATE"	SR A1A CLOSED "DATE"	FOLLOW DETOUR

PEDESTRIAN DETOUR ROUTE FOR WORK AT THE INTERSECTION OF SR A1A (FORT LAUDERDALE BEACH BOULEVARD) AT SE 5TH STREET

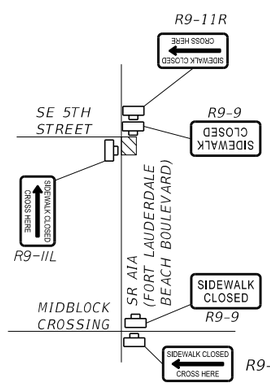
NW QUADRANT OF INTERSECTION:



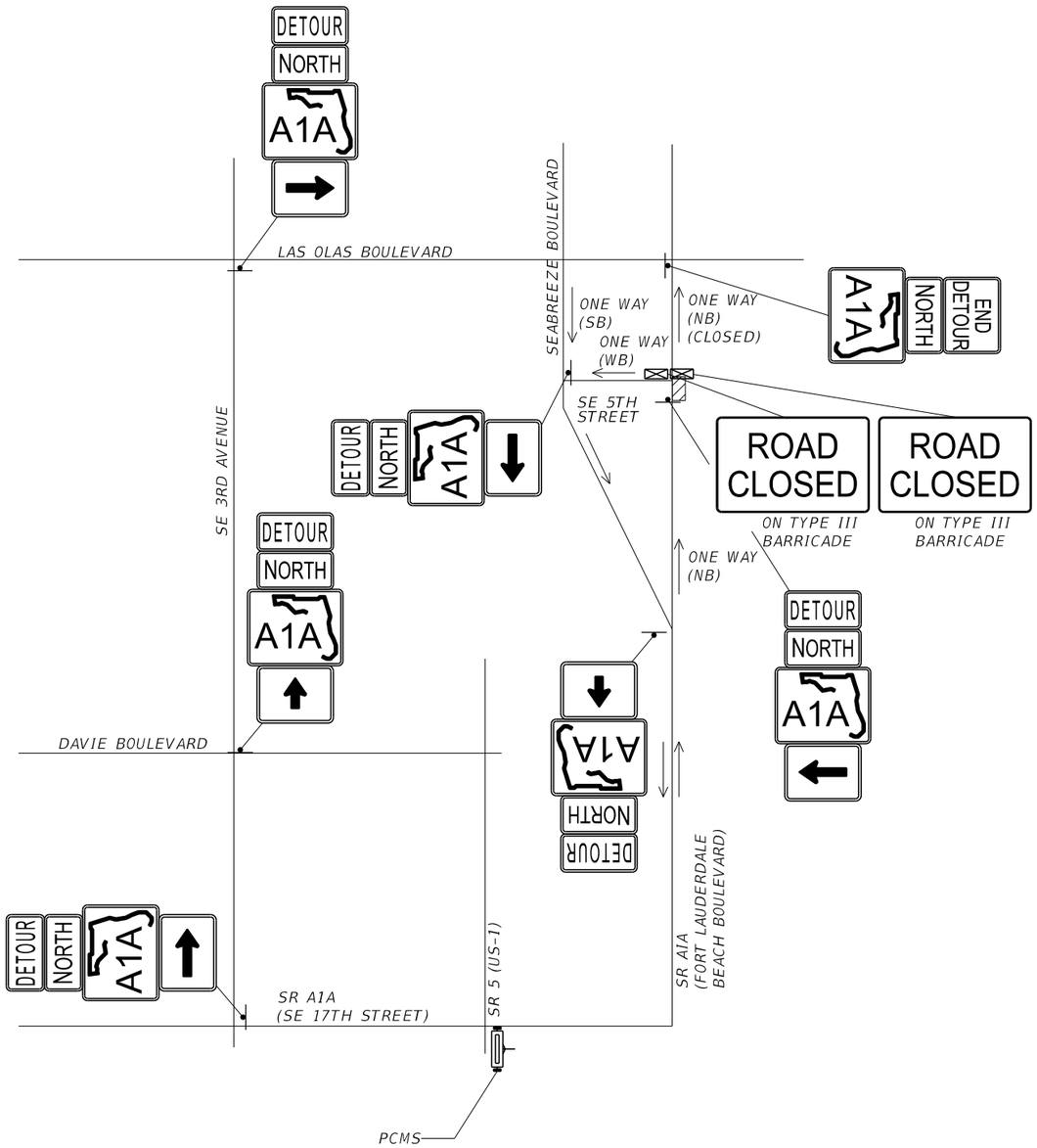
NE QUADRANT OF INTERSECTION:



SE QUADRANT OF INTERSECTION:



DETOUR ROUTE FOR THE EXISTING MAST ARM REMOVAL AND THE PROPOSED MAST ARM INSTALLATION WORK AT THE INTERSECTION OF SR A1A (FORT LAUDERDALE BEACH BOULEVARD) AT SE 5TH STREET



CAM 21-0283
Exhibit 3
Page 4 of 15

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DRMP, INC.
6853 SW 18TH STREET, STE. 310, BOCA RATON, FL 33433
PHONE: (561) 451-8124 FAX: (561) 451-8142
15
CHRISTINE DALICKAS, P.E.
LICENSE NUMBER 62423

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR A1A	BROWARD	436219-3-72-04 436219-3-72-05

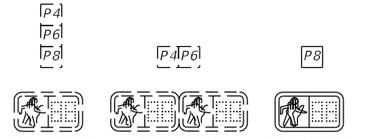
TEMPORARY TRAFFIC CONTROL NOTES

SHEET NO. 4

SIGNAL HEAD DETAILS

3-SECT., 1-WAY
4 AS
650-1-14

PEDESTRIAN SIGNAL HEAD DETAILS



PED. SIGNAL COUNT-DOWN 1-SECT., 1-WAY
3 AS EXISTING

PED. SIGNAL COUNT-DOWN 1-SECT., 2-WAY
1 AS EXISTING

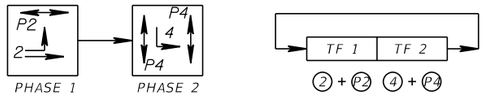
PED. SIGNAL COUNT-DOWN 1-SECT., 1-WAY
1 AS
653-1-11

*CONTROLLER TIMINGS

TIMING FUNCTION									
MOVEMENT NUMBER		1	2	3	4	5	6	7	8
DIRECTION			NB		EB				
TIMING FUNCTION	MINIMUM GREEN		7		10				
	EXTENSION								
	MAXIMUM GREEN 1		50		21				
	MAXIMUM GREEN 2								
	YELLOW CLEARANCE		4		3				
	ALL RED		2		2				
	PEDESTRIAN WALK		7		10				
	PED. CLEARANCE		8		11				
	RECALL		MAX						

EXISTING PREEMPTION TO REMAIN.
S.O.P. TO BE MODIFIED AS SHOWN HEREIN*

*SPECIAL S.O.P.



* CONTRACTOR IS TO LEAVE THE EXISTING SOP AND TIMINGS AS IS UNTIL THE CITY OF FT. LAUDERDALE'S SE 5TH STREET TWO-WAY PROJECT IS COMPLETED.

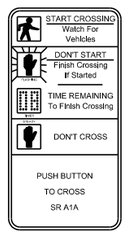
VIDEO DETECTION CHART

VIDEO DETECTOR	MOVEMENT NUMBER
V1	4
V2	2

SIGN DETAILS

SIGN A
EXISTING SIGN TO BE RELOCATED
700-5-50 1 EA

SIGN B
SEE SHEET 6 FOR DETAILS
700-5-22 1 EA

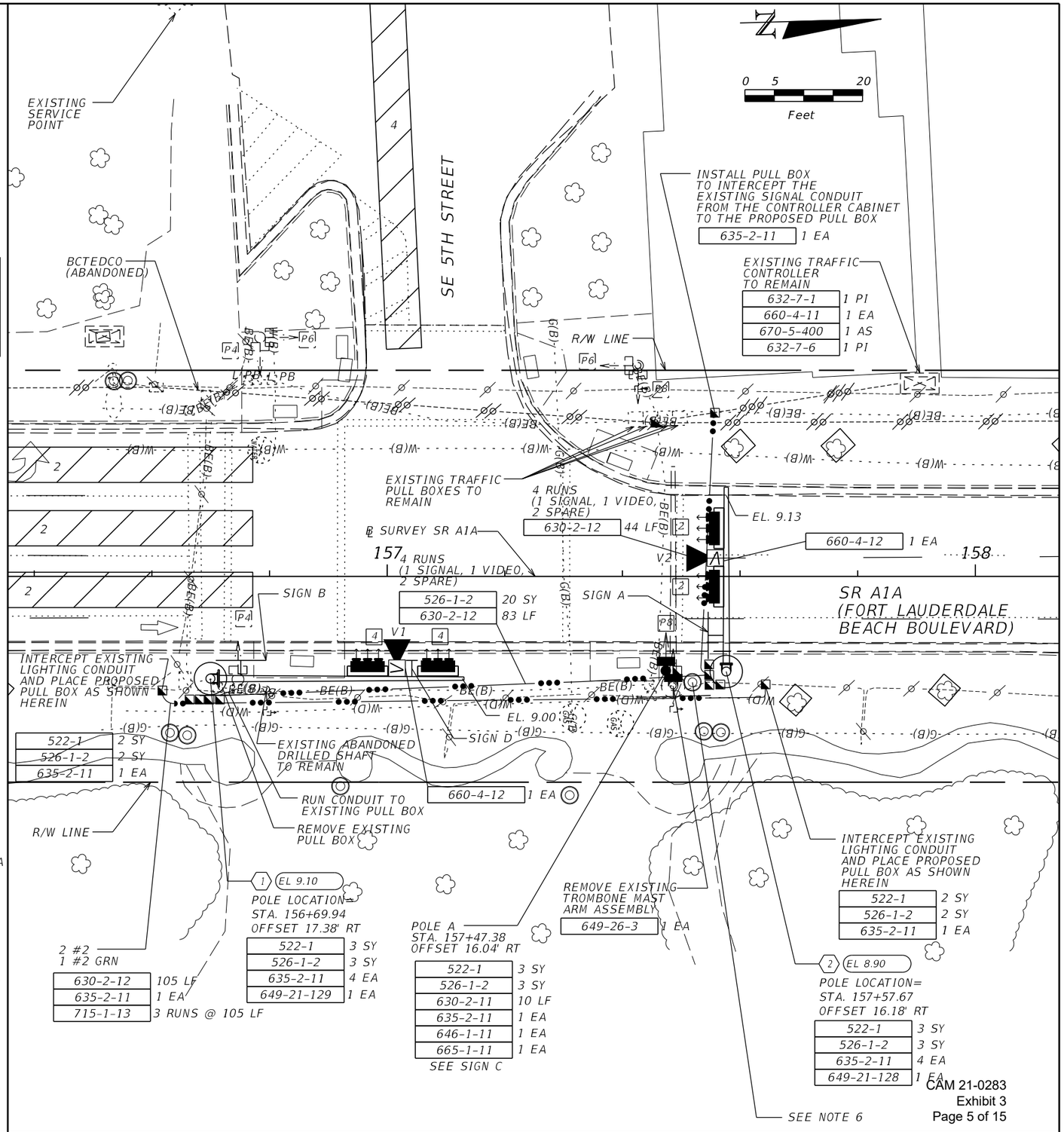


SIGN C
FTP 68B-06
9" X 18"

SIGN D
R6-2L
24" X 30"
700-3-201 1 EA

NOTES:

1. CONTRACTOR SHALL REMOVE AND RE-INSTALL ANY EXISTING SIDEWALK PAVERS FOUND ON SITE FOR THE INSTALLTION OF THE PROPOSED TROMBONE MAST ARMS AND TRAFFIC EQUIPMENT. CONTRACTOR SHALL REPLACE BRICK PAVERS DAMAGED DURING INSTALLATION OF TROMBONE MAST ARM FOUNDATIONS AND SIGNAL EQUIPMENT, INCLUDED IN PAY ITEM 526-1-2. CONTRACTOR SHALL USE DUE CARE WHEN REMOVING EXISTING SIDEWALK PAVERS TO MINIMIZE DAMAGE TO SAID SIDEWALK PAVERS.
2. CONTRACTOR SHALL PROTECT PAVERS WITHIN THE ROADWAY INTERSECTION FROM DAMAGE.
3. MAST ARM FOUNDATIONS ARE TO BE FLUSH WITH BRICK PAVERS.
4. CONTRACTOR SHALL ENTER CONTOLLER THROUGH EXISTING SIGNAL CONDUIT SWEEPS FROM THE EXISTING PULL BOXES.
5. PAY ITEM 670-5-400 INCLUDES THE MODIFICATION OF THE EXISTING CONTROLLER TO ACCOMODATE THE PROPOSED VIDEO DETECTION.
6. CONTRACTOR TO CONTACT CITY OF FORT LAUDERDALE ABOUT TRASH RECEPTACLE RELOCATION AT 954-828-8000.



CAM 21-0283
Exhibit 3
Page 5 of 15

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DRMP, INC.
6853 SW 18TH STREET, STE. 310, BOCA RATON, FL 33433
PHONE: (561) 451-8124 FAX: (561) 451-8142
16
CHRISTINE DALICKAS, P.E.
LICENSE NUMBER 62423

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR A1A	BROWARD	436219-3-72-04 436219-3-72-05

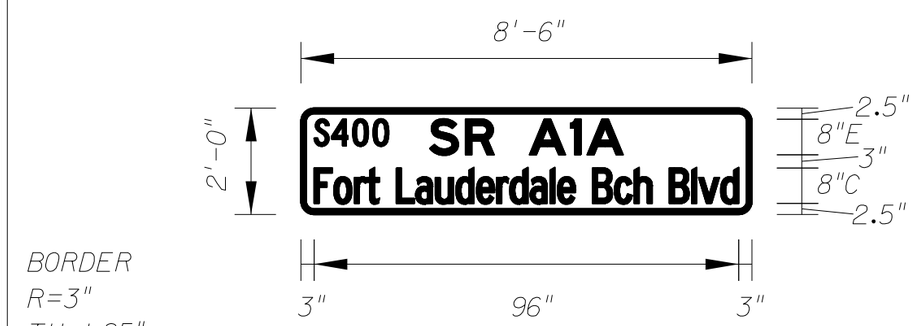
SIGNALIZATON PLAN

SHEET NO. 5

SIGN NAME	SIGN B	QTY	1	SIGN NUMBER	STATION(S)
PANEL		BORDER			none
WIDTH	8'-6"	WIDTH	1.25"		
HEIGHT	2'-0"	RADII	3"		
LEGEND	White	COLOR	White		
COLOR	White				

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	

COPY		S	4	0	0		L																		
SPACE	3	3.9	4.8	4.6	3.5	82.1	16.9																		
COPY		S	R		A	1	A		L																
SPACE	29.1	8.1	6.5	8	9.3	3.8	8.2	29.1	43.8																
COPY		F	o	r	t		L	a	u	d	e	r	d	a	l	e		B	c	h		B	l	v	d		L
SPACE	3	4.4	4.7	2.8	2.9	3.9	4.3	4.5	4.7	4.7	4.6	2.9	4.6	4.5	1.7	4.1	3.9	4.9	4.5	4.1	3.9	5.1	1.5	5	4.1	3	96
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SIGN NAME		QTY		SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH		WIDTH			
HEIGHT		RADII			
LEGEND		COLOR			
COLOR					

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	

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SIGN NAME		QTY		SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH		WIDTH			
HEIGHT		RADII			
LEGEND		COLOR			
COLOR					

SYMBOL(S)	ANGLE	X	Y	WID	HT

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

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CAM 21-0283
Exhibit 3
Page 6 of 15

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DRMP, INC.
6853 SW 18th Street, Ste. 310, Boca Raton, FL 33433
Phone: (561) 451-8124 Fax: (561) 451-8142
17
CHRISTINE DALICKAS, P.E.
LICENSE NUMBER 62423

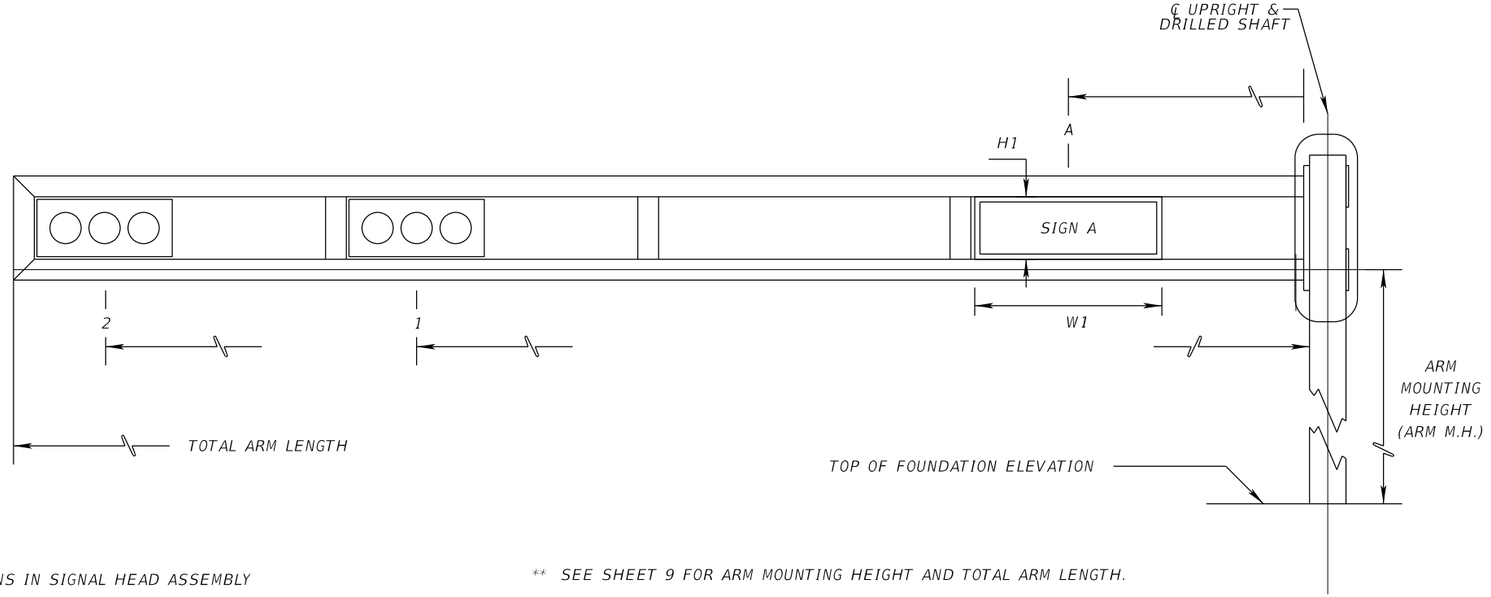
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR A1A	BROWARD	436219-3-72-04 436219-3-72-05

GUIDE SIGN WORKSHEET

SHEET NO. 6

*** CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING THE TOP OF FOUNDATION TO MATCH THE ELEVATION OF THE SURROUNDNG GROUND. CONTRACTOR SHALL ENSURE THE TOP OF FOUNDATION IS FLUSH WITH THE EXISTING BRICK PAVERS.



* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

** SEE SHEET 9 FOR ARM MOUNTING HEIGHT AND TOTAL ARM LENGTH.

						SIGNAL DATA																SIGN DATA															
									DISTANCE FROM POLE													DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN																	
ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUNDATION ELEVATION	RDWY ARM NO.	CROWN ELEV.	SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	1	*	2	*	3	*	4	*	CAMERA	*	TOTAL ARM LENGTH	ARM M.H.	∠ BETWEEN DUAL ARMS 90/270	A	H1	W1	B	H2	W2	C	H3	W3	D	H4	W4	E	H5	W5	PAINT COLOR
1	5	156+69.94	9.10	1	9.00	H	Y	N	26.5'	3	38.5'	3					32'		**	**		5'	2	8.5	34'	2.5	2										SOLAR BLACK
[redacted]				2																	[redacted]															
2	5	157+57.67	8.90	1	9.13	H	Y	N	13.3'	3	23.3'	3					18.5'		**	**		5'	2	8													SOLAR BLACK
[redacted]				2																	[redacted]															
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CAM 21-0283
Exhibit 3
Page 7 of 15

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18
CHRISTINE DALICKAS, P.E.
LICENSE NUMBER 62423

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

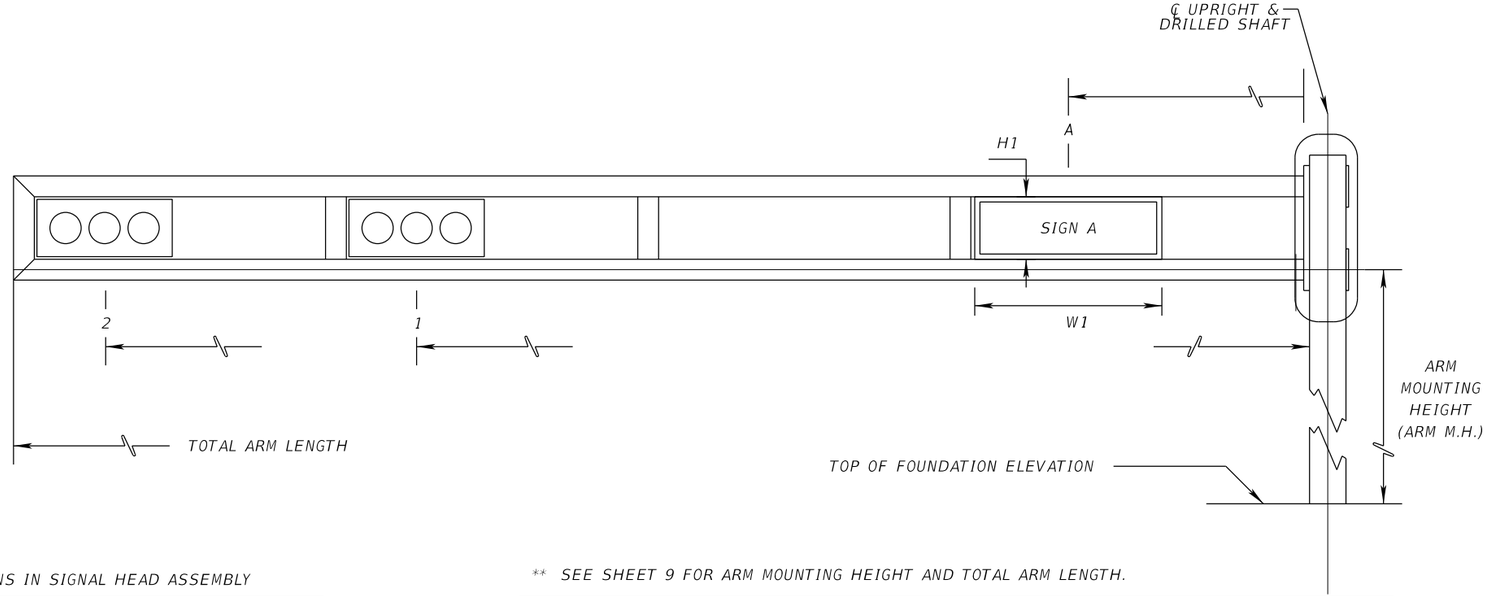
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR A1A	BROWARD	436219-3-72-04 436219-3-72-05

MAST ARM TABULATION SHEET

SHEET NO. 7

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

FOR INFORMATION PURPOSES ONLY
NOT FOR CONSTRUCTION



* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

** SEE SHEET 9 FOR ARM MOUNTING HEIGHT AND TOTAL ARM LENGTH.

						SIGNAL DATA														SIGN DATA																
									DISTANCE FROM POLE														DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN																
ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUNDATION ELEVATION	RDWY ARM NO.	CROWN ELEV.	SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	1	*	2	*	3	*	4	*	CAMERA	*	TOTAL ARM LENGTH	ARM M.H.	∠ BETWEEN DUAL ARMS 90/270	A	H1	W1	B	H2	W2	C	H3	W3	D	H4	W4	E	H5	W5	PAINT COLOR
1	5	156+69.94	9.10	1	9.00	H	Y	N	26.5'	3	38.5'	3					32'		**	**		5'	2	8.5	34'	3	2.5										SOLAR BLACK
[redacted]				2																	[redacted]																
2	5	157+57.67	8.90	1	9.13	H	Y	N	13.3'	3	23.3'	3					18.5'		**	**		5'	2	8	29'	2.5	2.5										SOLAR BLACK
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DATE	DESCRIPTION	DATE	DESCRIPTION

DRMP, INC.
6853 SW 18th Street, Ste. 310, Boca Raton, FL 33433
Phone: (561) 451-8124 Fax: (561) 451-8142
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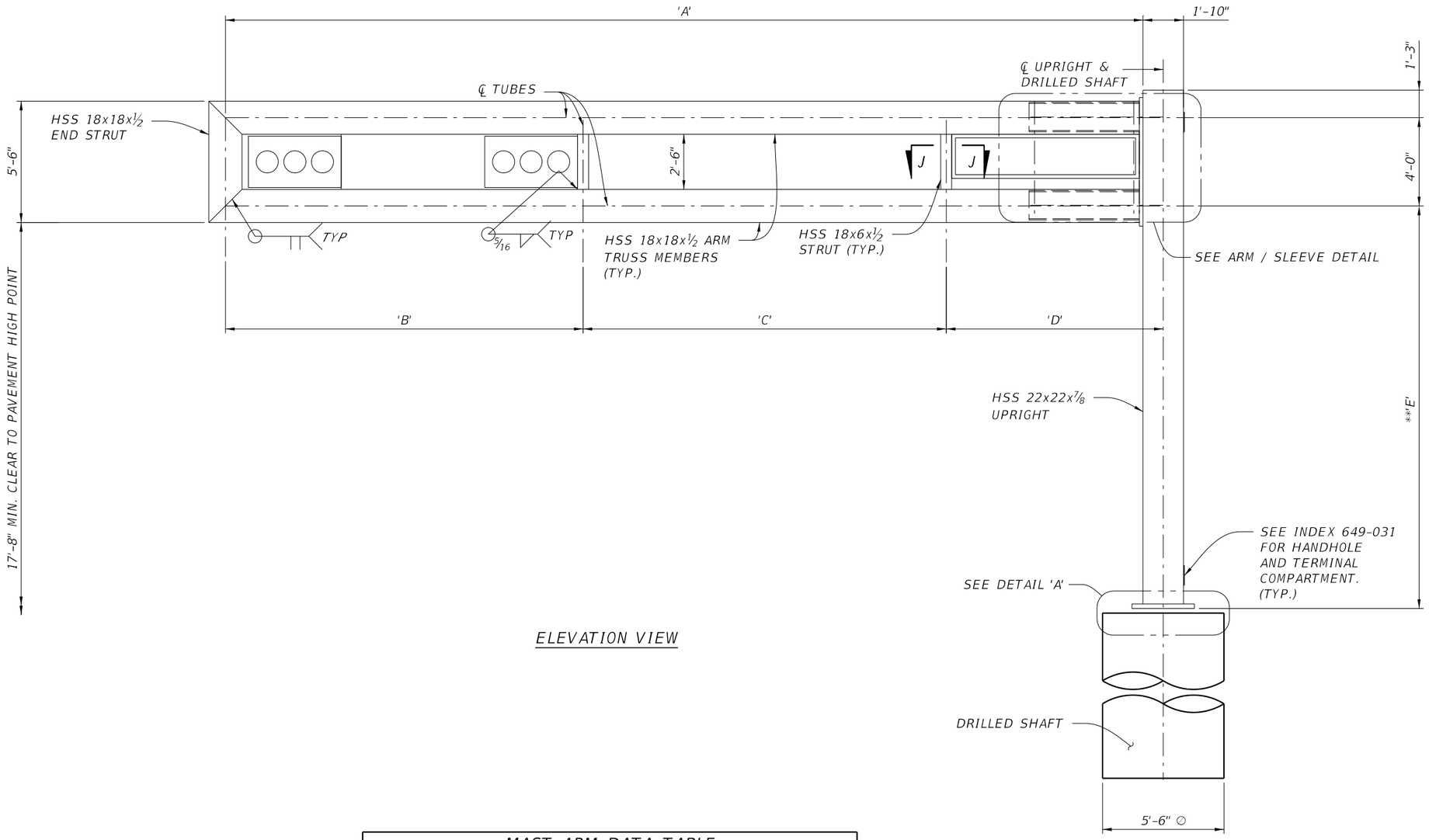
CHRISTINE DALICKAS, P.E.
LICENSE NUMBER 62423

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR A1A	BROWARD	436219-3-72-04 436219-3-72-05

ULTIMATE LOADING

SHEET NO. 8



ELEVATION VIEW

MAST ARM DATA TABLE						
MAST ARM ID NO.	STATION	DIMENSIONS				
		A	B	C	D	**E
1	156+69.94	41'-7"	17'-8"	14'-5"	10'-5"	18'-3"
2	157+57.67	31'-1"	10'-4½"	11'-5½"	10'-2"	18'-3"

SEE NEXT SHEET FOR DRILLED SHAFT DATA.

NOTE

** CONTRACTOR SHALL VERIFY THIS DIMENSION PRIOR TO FABRICATION OF POLE.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DRMP, INC.
941 Lake Baldwin Lane, Orlando, FL 32814
Phone: (407) 896-0594 Fax: (407) 896-4836
JOCELYN M.HAISCH-LINN
LICENSE No. 60103
20

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR A1A	BROWARD	436219-3-72-04 436219-3-72-05

MAST ARM ELEVATION

SHEET NO. 9

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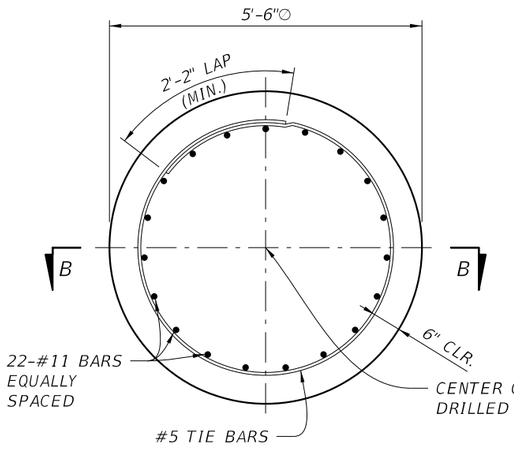
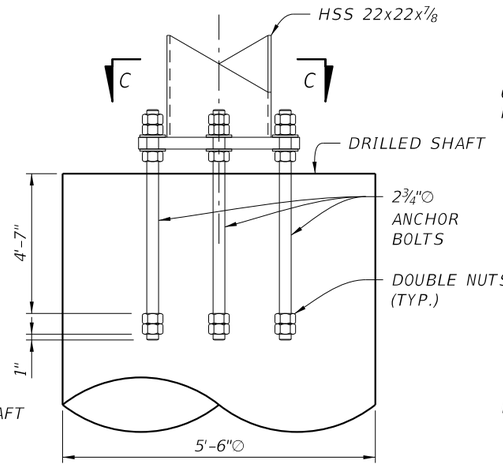


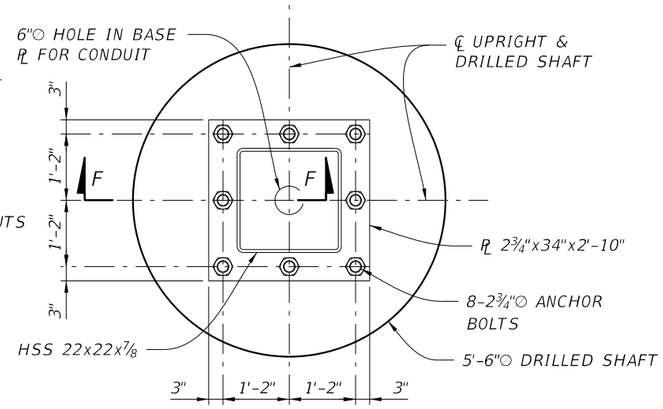
DRILLED SHAFT PLAN SECTION

NOTE: 6" MIN. COVER ON SHAFT REINFORCEMENT. (ANCHOR BOLTS NOT SHOWN FOR CLARITY)



DETAIL 'A'

(REINFORCING STEEL NOT SHOWN FOR CLARITY)



SECTION C-C

(REINFORCING STEEL NOT SHOWN FOR CLARITY)

MAST ARM ASSEMBLIES GENERAL NOTES

1. SIGNAL STRUCTURE MATERIALS SHALL BE AS FOLLOWS:

UPRIGHT	->	ASTM A500 GRADE 55 OR GRADE 50 WITH MILL CERFTIFICATION SHOWING FY=55 ksi
ARM TRUSS	->	ASTM A500 GRADE 50
STEEL PLATES	->	ASTM A36
WELD METAL	->	E70XX
BOLTS (EXCEPT ANCHOR BOLTS)	->	ASTM A325 TYPE 1
ANCHOR BOLTS	->	ASTM F1554 GRADE 55 ksi
NUTS FOR ANCHOR BOLTS	->	ASTM A563 GRADE A HEAVY HEX
WASHERS FOR ANCHOR BOLTS	->	ASTM F436 TYPE 1
HANDHOLE FRAME	->	ASTM A709 GRADE 36 ksi OR ASTM A36
HANDHOLE COVER	->	ASTM A1011 GRADE 50, 55, 60, OR 65 ksi
CAPS	->	ASTM A1011 GRADE 50, 55, 60, OR 65 ksi OR ASTM B209
NUT COVERS	->	ASTM B26 (319-F)
STAINLESS STEEL SCREWS	->	AISI TYPE 316
THREADED BARS / STUDS	->	ASTM A36 OR ASTM A307

2. REINFORCING STEEL SHALL BE ASTM A615 GRADE 60 KSI.

3. CONCRETE SHALL BE CLASS IV (DRILLED SHAFT) WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 psi FOR ALL ENVIRONMENTAL CLASSIFICATIONS.

4. ALL WELDING SHALL CONFORM TO AMERICAN WELDING SOCIETY STRUCTURAL WELDING CODE (STEEL) ANSI/AWS D1.1 (CURRENT EDITION).

5. ALL NUTS, BOLTS, WASHERS, AND THREADED BARS/STUDS SHALL BE GALVANIZED IN ACCORDANCE WITH F2329. ALL OTHER STEEL ITEMS (INCLUDING POLE AND ARM) SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A123.

6. LOCATE HANDHOLE 180° FROM ARM TRUSS.

7. EXCEPT FOR ANCHOR BOLTS, ALL BOLT HOLE DIAMETERS SHALL BE EQUAL TO THE BOLT DIAMETER PLUS 1/16", HOLE DIAMETERS FOR ANCHOR BOLTS SHALL NOT EXCEED THE BOLT DIAMETER PLUS 1/2".

8. SIGNALS ATTACHED TO THE ARM TRUSS SHALL BE CENTERED IN ELEVATION ON THE ARM TRUSS. WIRE ACCESS HOLES SHALL NOT EXCEED 1 1/2" IN DIAMETER EXCEPT AS NOTED. MOUNTING HARDWARE FOR SIGNALS SHALL BE PROVIDED BY THE VENDOR.

9. THE POLE SHALL BE INSTALLED VERTICALLY. CAMBER SHALL BE ACCOUNTED FOR IN THE MAST ARM CONNECTION AS DETAILED.

10. DESIGN ACCORDING TO FDOT STRUCTURES MANUAL (2019 EDITION). ALTERNATE DESIGNS FOR SPECIAL MAST ARM ASSEMBLIES ARE NOT ALLOWED.

11. PROVIDE "J", "S", OR "C" - HOOK AT TOP OF POLE FOR SIGNAL CABLE SUPPORT.

12. ARM TRUSS CAMBER ANGLE = 1°

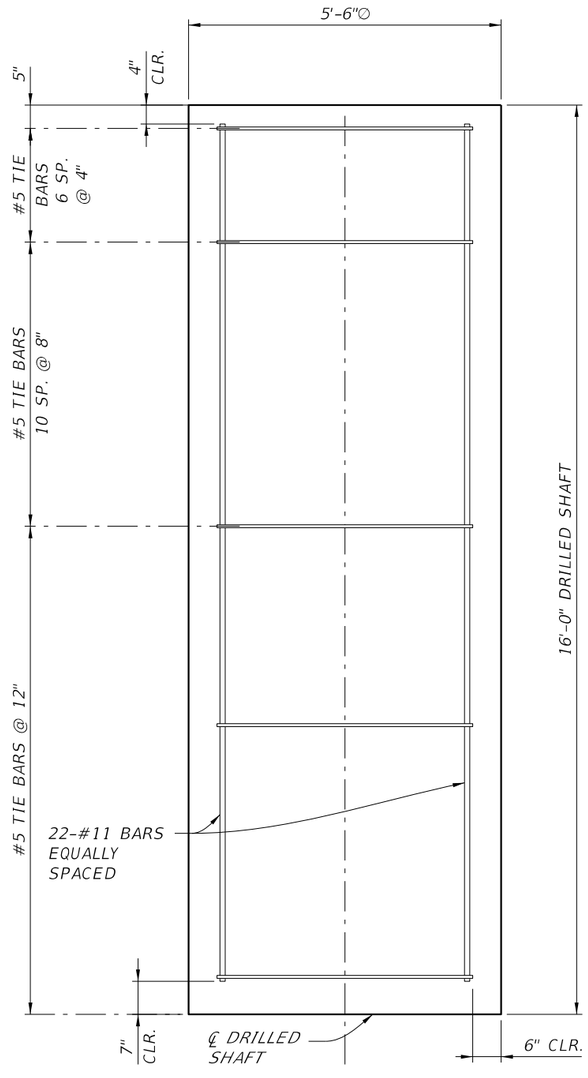
13. DETAILS FOR THE GROUND ROD, SIGNAL HEAD ATTACHMENT, PEDESTRIAN HEAD ATTACHMENT, AND FOUNDATION CONDUIT ARE NOT SHOWN FOR CLARITY.

14. SEE INDEX 649-031 FOR WELD INSPECTION NOTE.

15. SUBMIT SHOP DRAWINGS FOR REVIEW. INCLUDE VENDOR PROVIDED HARDWARE FOR MOUNTING TRAFFIC SIGNALS.

FOUNDATION NOTES

1. DESIGN BASED ON BORINGS TAKEN ON 2/26/18 & 2/27/18 AND SEALED BY HR ENGINEERING SERVICES, INC.
2. ASSUMPTIONS AND VALUES USED IN DESIGN:
   - SOIL TYPE SAND
   - SOIL LAYER THICKNESS = 16.0 ft.
   - SOIL FRICTION ANGLE = 33 deg.
   - EFFECTIVE SOIL WEIGHT = 50 pcf
   - N-BLOWCOUNT = 19
   - DESIGN WATER TABLE IS AT GROUND SURFACE



SECTION B-B

(ANCHOR BOLTS NOT SHOWN FOR CLARITY)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DRMP, INC.
941 Lake Baldwin Lane, Orlando, FL 32814
Phone: (407) 896-0594. Fax: (407) 896-4836
JOCELYN M.HAISCH-LINN
LICENSE No. 60103

21

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR A1A	BROWARD	436219-3-72-04 436219-3-72-05

MAST ARM DETAILS (1 OF 2)

SHEET NO. 10

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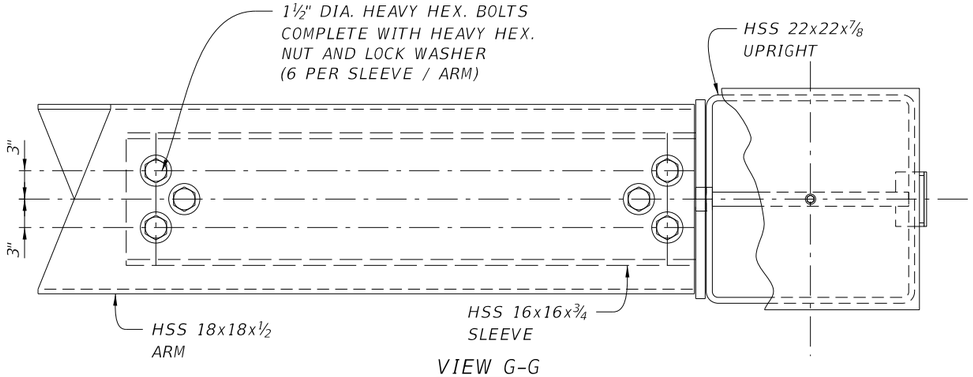
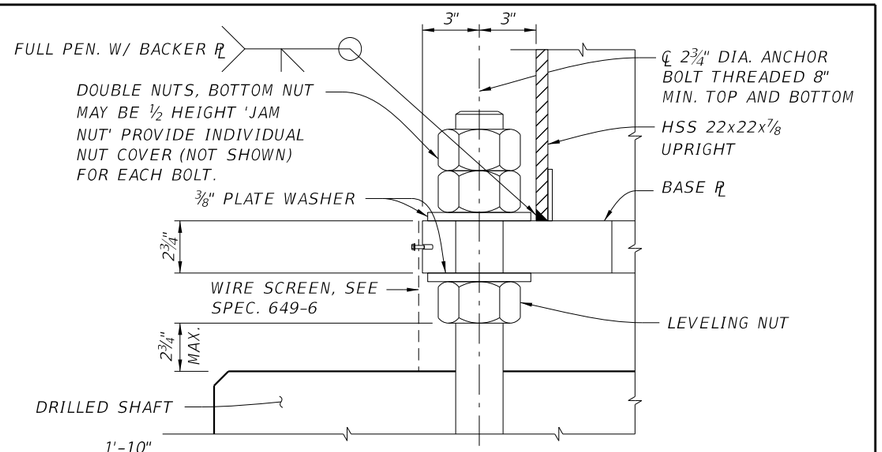
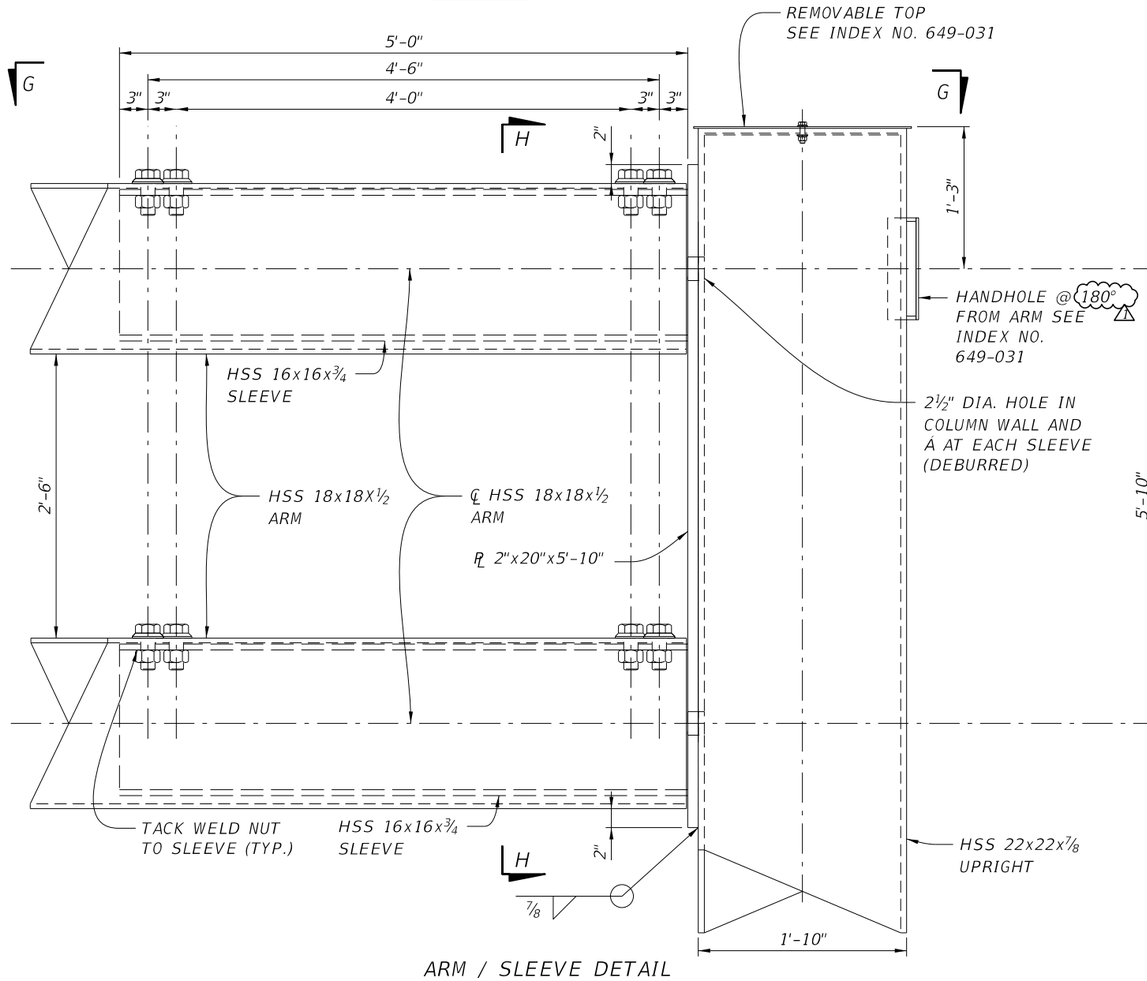
12-0007.039 Plotted By: EWermuth 11/20/2020 3:24:09 PM T:\17-0104_008_SR_A1A_at_SE_5th_Street\43621927201\struct\MiscStrMastarm02.DGN



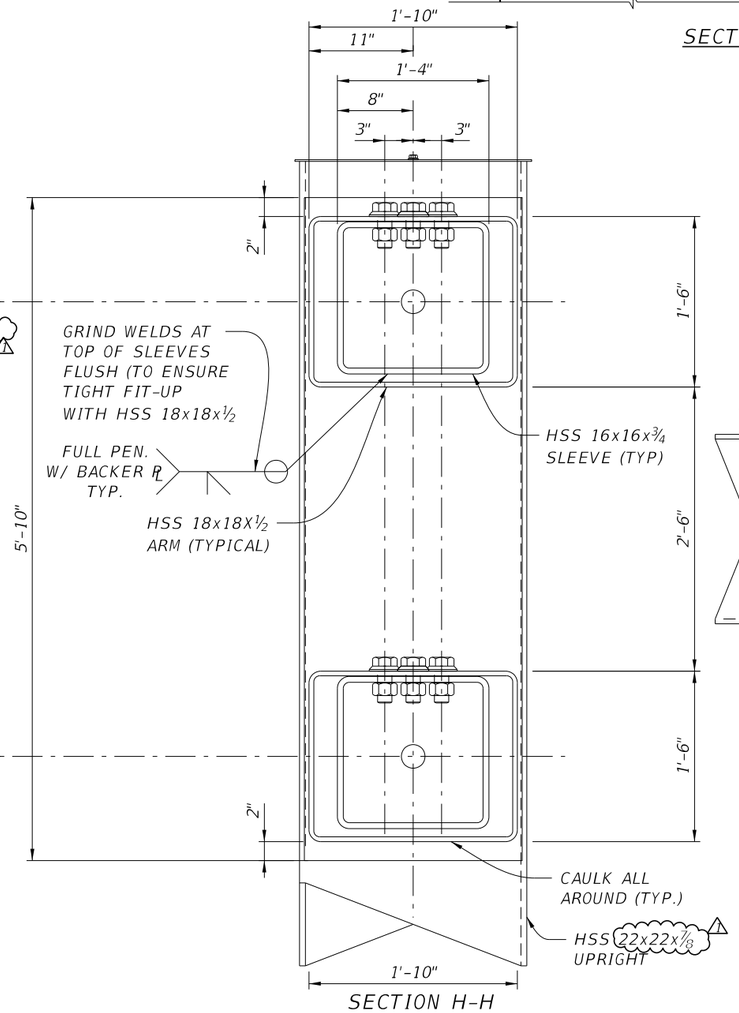
VIEW G-G



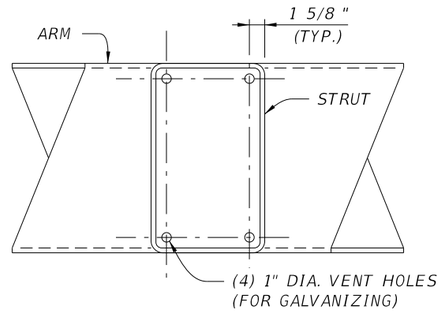
SECTION F-F



ARM / SLEEVE DETAIL



SECTION H-H



SECTION J-J

SIGNAL NOT SHOWN FOR CLARITY

CAM 21-0283
Exhibit 3
Page 11 of 15

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
04/07/21	EFW ⚠ CORRECTED TYPOS		

DRMP, INC.
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JOCELYN M.HAISCH-LINN
LICENSE No. 60103

22

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR A1A	BROWARD	436219-3-72-04 436219-3-72-05

MAST ARM DETAILS (2 OF 2)

SHEET NO. 11

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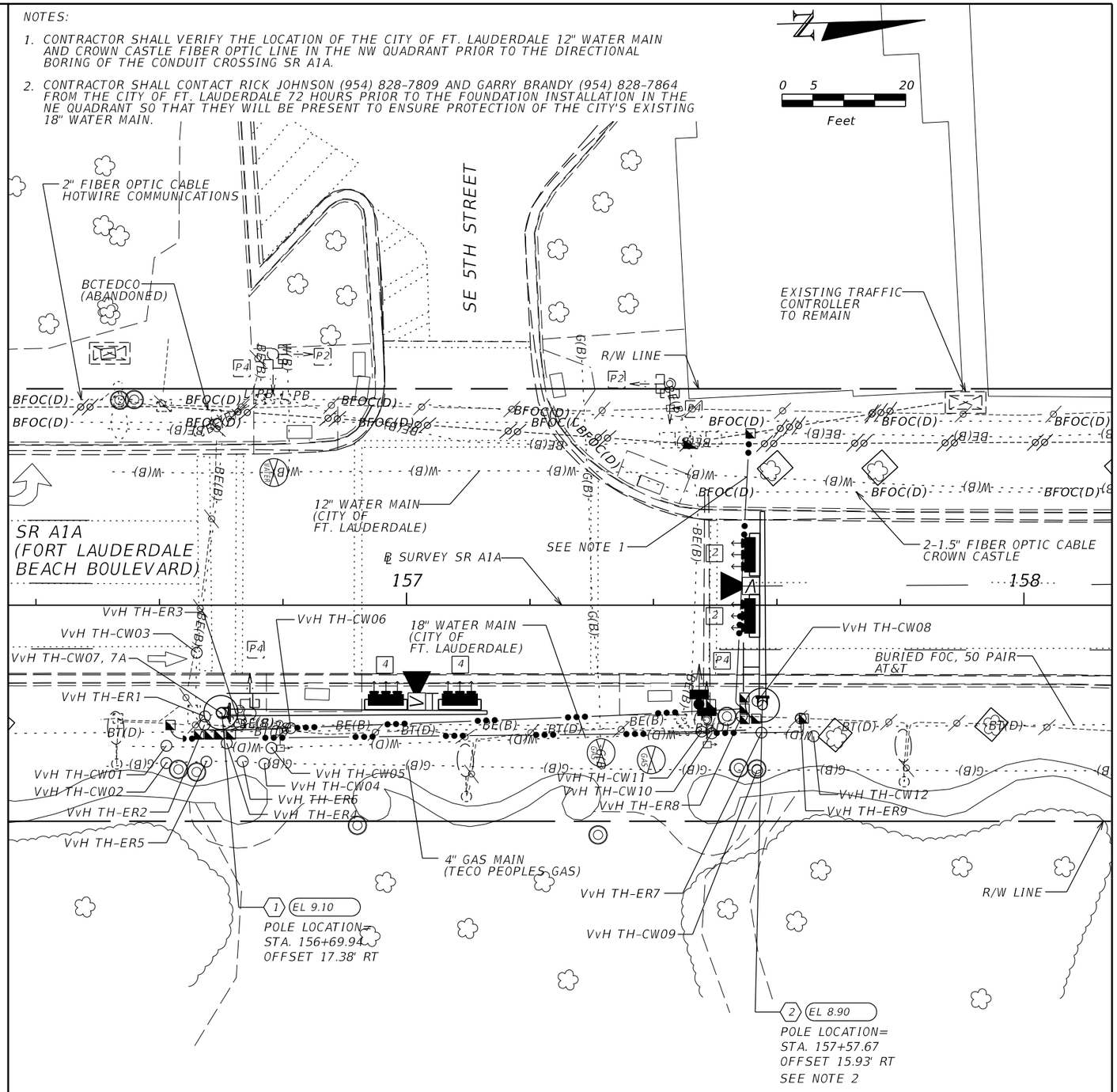
NOTES:

1. CONTRACTOR SHALL VERIFY THE LOCATION OF THE CITY OF FT. LAUDERDALE 12" WATER MAIN AND CROWN CASTLE FIBER OPTIC LINE IN THE NW QUADRANT PRIOR TO THE DIRECTIONAL BORING OF THE CONDUIT CROSSING SR A1A.
2. CONTRACTOR SHALL CONTACT RICK JOHNSON (954) 828-7809 AND GARRY BRANDY (954) 828-7864 FROM THE CITY OF FT. LAUDERDALE 72 HOURS PRIOR TO THE FOUNDATION INSTALLATION IN THE NE QUADRANT SO THAT THEY WILL BE PRESENT TO ENSURE PROTECTION OF THE CITY'S EXISTING 18" WATER MAIN.



CAM 21-0283
Exhibit 3
Page 12 of 15

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LICENSE NUMBER 62423

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR A1A	BROWARD	436219-3-72-04 436219-3-72-05

UTILITY LOCATION PLAN

SHEET NO. 12

VERIFIED UTILITY LOCATE SHEET

Vvh #	UTILITY DESCRIPTION (Owner, type)	SIZE	MATERIALS	B/L and/or C/L			EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
				STATION	OFFSET	LT/RT			
TH-ER1	BROWARD COUNTY TRAFFIC, BURIED ELECTRIC (TC)	1"	PVC	156+67.4	18.0	RT	9.1	7.6	STA & OFF DERIVED FROM BL OF SURVEY OF A1A (TYP.)
TH-ER2	BROWARD COUNTY TRAFFIC, BURIED ELECTRIC (TC)	2"	PVC	156+67.3	19.4	RT	9.0	6.0	
TH-ER3	BROWARD COUNTY TRAFFIC, BURIED ELECTRIC (TC)	2x2"	PVC/PE	156+73.0	19.3	RT	9.2	6.3	
TH-ER4	CITY OF FT. LAUDERDALE, WATER MAIN	18"	DIP	156+70.9	22.4	RT	9.3	5.1	
TH-ER5	TECO PEOPLES, GAS MAIN	4"	COATED STL	156+67.6	25.3	RT	9.0	5.4	
TH-ER6	TECO PEOPLES, GAS MAIN	4"	COATED STL	156+73.5	25.3	RT	9.0	5.3	
TH-ER7	CITY OF FT. LAUDERDALE, WATER MAIN	18"	DIP	157+57.5	20.6	RT	8.9	5.0	
TH-ER8	BROWARD COUNTY TRAFFIC, BURIED ELECTRIC (SL)	2"	PVC	157+54.3	18.0	RT	8.9	6.2	
TH-ER9	BROWARD COUNTY TRAFFIC, BURIED ELECTRIC (SL)	2"	PVC	157+63.9	18.4	RT	8.7	6.2	
	TEST HOLES PERFORMED UNDER AMENDMENT 2								
									STA & OFF DERIVED FROM BL OF SURVEY OF A1A (TYP.)
TH-CW01	CITY OF FORT LAUDERDALE, WATER MAIN	18"	DIP	156+61.1	22.8	RT	9.0	4.8	FOUND ±18" O.D. WM, RECORDS INDICATE 20" WM AT THIS LOCATION
TH-CW02	TECO PEOPLES GAS, GAS MAIN	4"	STL	156+61.1	25.6	RT	9.1	5.4	
TH-CW03	BROWARD COUNTY TRAFFIC, BURIED ELECTRIC (TC)	3x2"	PVC	156+66.0	7.7	RT	8.6	6.1	
TH-CW04	TECO PEOPLES GAS, GAS MAIN	4"	STL	156+77.0	25.7	RT	9.0	5.3	
TH-CW05	CITY OF FORT LAUDERDALE, WATER MAIN	18"	DIP	156+78.1	23.1	RT	9.0	4.7	FOUND ±18" O.D. WM, RECORDS INDICATE 20" WM AT THIS LOCATION
TH-CW06	BROWARD COUNTY TRAFFIC, BURIED ELECTRIC (TC)	3x2"	PVC	156+81.3	19.9	RT	9.0	6.7	
TH-CW07	NO UTILITY FOUND, EXPLORATORY	N/A	N/A	156+70.1	17.5	RT	8.8	N/A	EXPLORATORY HOLE PERFORMED AT CENTER OF PROPOSED MAST ARM
									LOCATION TO A DEPTH OF ±10.0'
TH-CW07A	FP&L DISTRIBUTIONS, BURIED ELECTRIC	2"	PVC	156+70.1	17.5	RT	8.8	6.7	BE UTILITY LOCATED IN EXPLORATORY TEST HOLE CW07
TH-CW08	NO UTILITY FOUND, EXPLORATORY	N/A	N/A	157+56.9	15.5	RT	8.8	N/A	EXPLORATORY HOLE PERFORMED AT CENTER OF PROPOSED MAST ARM
									LOCATION TO A DEPTH OF ±10.0'
TH-CW09	TECO PEOPLES GAS, GAS MAIN	4"	STL	157+56.8	26.8	RT	9.1	5.7	
TH-CW10	CITY OF FORT LAUDERDALE, WATER MAIN	18"	DIP	157+49.5	20.8	RT	9.0	5.6	FOUND ±18" O.D. WM, RECORDS INDICATE 20" WM AT THIS LOCATION
TH-CW11	UNKNOWN OWNER, UNKNOWN UTILITY	2"	CPP	157+47.8	20.5	RT	8.9	6.1	
TH-CW12	CITY OF FORT LAUDERDALE, WATER MAIN	18"	DIP	157+66.0	21.2	RT	9.1	5.3	FOUND ±18" O.D. WM, RECORDS INDICATE 20" WM AT THIS LOCATION

PROJECT LIMITS: INTERSECTION OF SR A1A AND SE 5TH ST.

SUBSURFACE UTILITY ENGINEERING NOTES:
1. OWNERSHIP IS BASED UPON OBSERVING VISIBLE ABOVE GROUND UTILITY FEATURES, SUNSHINE 811 DIG TICKET AND PROFESSIONAL JUDGEMENT. NO RECORDS RESEARCH WAS PERFORMED BY WGI, INC.

SURVEYOR'S NOTES:
1. SURVEY WAS PERFORMED BY WGI, INC.
2. VERTICAL INFORMATION IS RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
3. BEARINGS AND COORDINATES ARE RELATIVE TO THE STATE PLANE COORDINATES FLORIDA EAST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD 83), ADJUSTMENT 2011.
4. STATION AND OFFSET DERIVED FROM BASELINE OF SURVEY OF SR A1A AS PROVIDED BY FDOT PROJECT NETWORK CONTROL (PNC) FINANCIAL PROJECT ID 436219-3-72-04.
5. PROJECT UNITS: U.S. SURVEY FEET.
6. THE SPECIFIC PURPOSE OF 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 WGI, INC.
7. WGI PROJECT # 2571.42

JAY SCAGLIOLA LICENSE NUMBER No.5066 STATE OF FLORIDA Professional Surveyor & Mapper

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 WGI INC. AND THAT 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 OCTOBER 06, 2020.

THIS SHEET HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL.

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

WGI INC.
2035 VISTA PARKWAY
WEST PALM BEACH, FL 33411
JAY SCAGLIOLA, PSM No. 5066

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

SHEET NO.	SHEET DESCRIPTION
UTV-1	VERIFIED UTILITY LOCATE SHEET

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

JAY SCAGLIOLA, PSM
SURVEYOR LICENSE NUMBER 5066
WGI INC.
2035 VISTA PARKWAY, SUITE 100
WEST PALM BEACH, FL 33411

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
A1A	BROWARD	436219-3-72-04

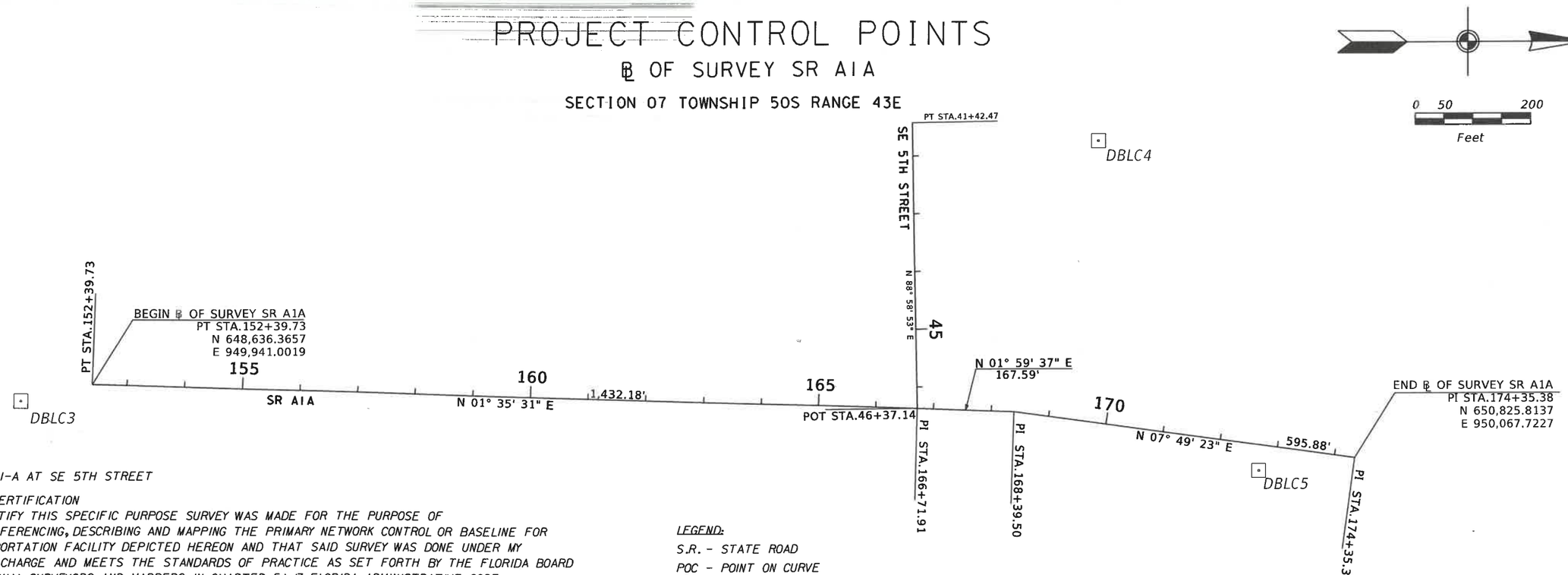
VERIFIED UTILITY LOCATE SHEET

SHEET NO. UTV-1

PROJECT CONTROL POINTS

℄ OF SURVEY SR A1A

SECTION 07 TOWNSHIP 50S RANGE 43E



LIMITS: SR A-1-A AT SE 5TH STREET

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THIS SPECIFIC PURPOSE SURVEY WAS MADE FOR THE PURPOSE OF SURVEYING, REFERENCING, DESCRIBING AND MAPPING THE PRIMARY NETWORK CONTROL OR BASELINE FOR THE TRANSPORTATION FACILITY DEPICTED HEREON AND THAT SAID SURVEY WAS DONE UNDER MY RESPONSIBLE CHARGE AND MEETS THE STANDARDS OF PRACTICE AS 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 CTL-1 IS A TRUE, ACCURATE AND COMPLETE DEPICTION OF THE RESULTS OF A FIELD SURVEY PERFORMED UNDER MY DIRECTION AND COMPLETED ON NOVEMBER 29 ,2017

SURVEYOR *Roberto Chavez P.S.M.*
SURVEYOR LICENSE NUMBER 7280
Florida Department of Transportation
3400 W. Commercial Blvd.
Ft. Lauderdale, Fl. 33309

BASELINE AND DBLC3, DBLC4 AND DBLC5 TAKEN FROM PNC SHEET FM# 430601-1-52-01.

BEARINGS AND COORDINATES ARE RELATIVE TO THE STATE PLANE COORDINATES, FLORIDA EAST ZONE, NORTH AMERICAN DATUM (NAD) OF 83/90 ADJUSTMENT

A BEARING OF N 03° 13'26.7" E HAS BEEN ESTABLISHED BETWEEN DBLC3 STAMPED C3 AND DBLC5 STAMPED C5.

VERTICAL DATUM N.A.V.D. 1988

PROJECT UNITS U.S. SURVEY FEET

BASELINE OF SURVEY IS NOT STAKED IN THE FIELD.

ELECTRONIC DATABASE: 6512.ZIP

LEGEND:

S.R. - STATE ROAD
POC - POINT ON CURVE
PI - POINT OF INTERSECTION
PT - POINT OF TANGENCY
FND - FOUND
STMD - STAMPED DISK
POT - POINT ON TANGENT
Δ - CURVE DELTA ANGLE
D - DEGREE
T - TANGENT
R - RADIUS
L - LENGTH OF CURVE
STA - STATION
RT - RIGHT
LT - LEFT
▫ - BRASS DISK IN CONCRETE

PROJECT NETWORK CONTROL TABULATION SHEET DETAILS

POINT NAME	(X) EASTING	(Y) NORTHING	SCALE FACTOR	LATITUDE	LONGITUDE	BASELINE STATION	OFFSET	(Z) ELEVATION	DESCRIPTION
DBLC3	949,969.0021	648,512.5683	1.00004015	26°06'54.13738	80°06'16.69477	151+24.67	RT 43.74'	10.49'	BRASS DISK IN CONCRETE STAMPED A1A-86 12 C3
DBLC4	949,518.2793	650,382.9317	1.00003985	26°07'12.69112	80°06'21.49825	169+21.83	LT 484.05'	5.51'	BRASS DISK IN CONCRETE STAMPED A1A-86 12 C4
DBLC5	950,089.8869	650,658.5741	1.00004024	26°07'15.38246	80°06'15.20667	172+72.71	RT 44.72'	9.61'	BRASS DISK IN CONCRETE STAMPED A1A-86 12 C5

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Roberto Chavez P.S.M.
SURVEYOR LICENSE NUMBER 7280
Florida Department of Transportation
3400 W. Commercial Blvd.
Ft. Lauderdale, Fl. 33309

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR A1A	BROWARD	436219-3-72-04

PROJECT CONTROL

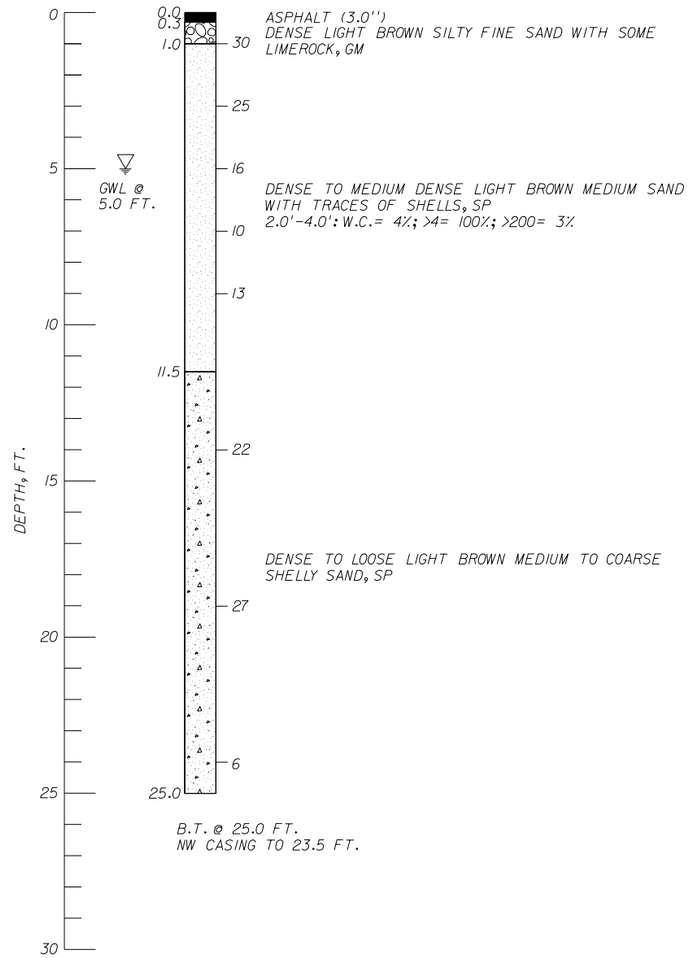
SHEET NO. CTL-1

$USER$ $DATE$ $TIME$ $FILE$

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

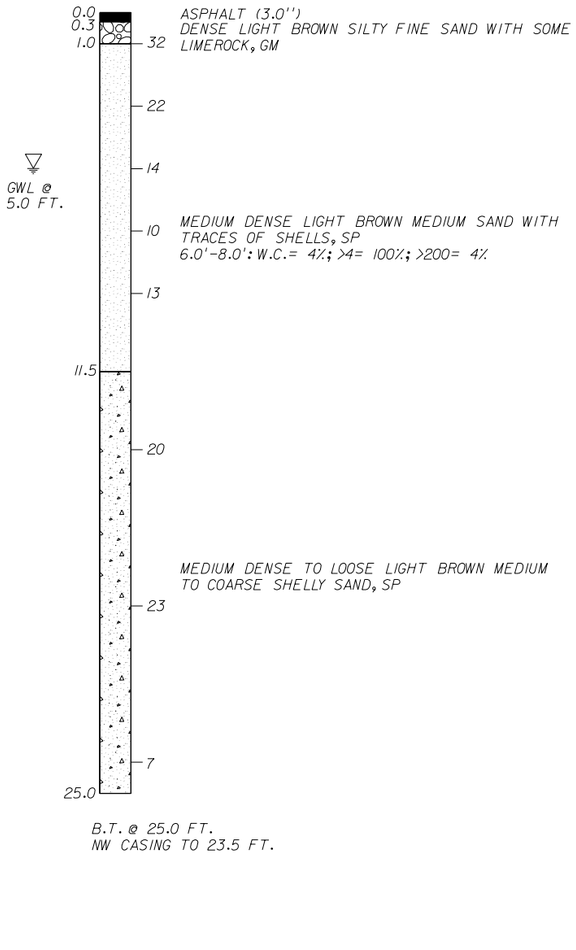
MA-1

LATITUDE: 26.11652°
LONGITUDE: -80.10467°
STATION: 156+55
OFFSET: 2 RT
DATE: 02/27/18



MA-2

LATITUDE: 26.11679°
LONGITUDE: -80.10465°
STATION: 157+55
OFFSET: 5 RT
DATE: 02/26/18



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

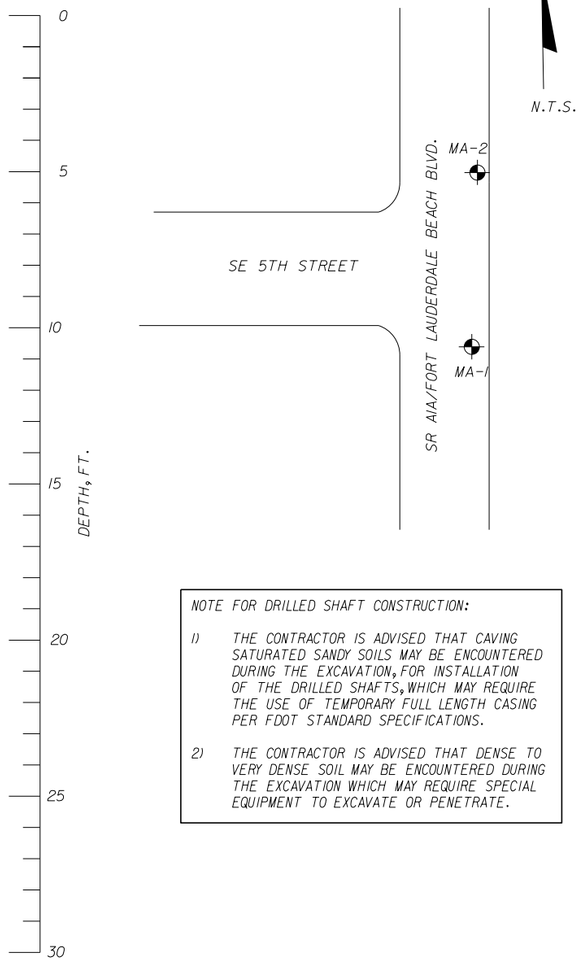
HERNANDO R. RAMOS LICENSE No 42045 STATE OF FLORIDA PROFESSIONAL ENGINEER

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 THE ELECTRONIC COPIES.

HR ENGINEERING SERVICES, INC.
7815 NW 72ND AVENUE
MEDLEY, FL 33166
HERNANDO R. RAMOS, P.E. NO. 42045

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23-004, F.A.C.



NOTE FOR DRILLED SHAFT CONSTRUCTION:

1) THE CONTRACTOR IS ADVISED THAT CAVING SATURATED SANDY SOILS MAY BE ENCOUNTERED DURING THE EXCAVATION, FOR INSTALLATION OF THE DRILLED SHAFTS, WHICH MAY REQUIRE THE USE OF TEMPORARY FULL LENGTH CASING PER FDOT STANDARD SPECIFICATIONS.

2) THE CONTRACTOR IS ADVISED THAT DENSE TO VERY DENSE SOIL MAY BE ENCOUNTERED DURING THE EXCAVATION WHICH MAY REQUIRE SPECIAL EQUIPMENT TO EXCAVATE OR PENETRATE.

VERTICAL SCALE: 0 1 5
HORIZONTAL SCALE: NTS
HRES PROJECT No.: HR17-1347R

LEGEND:

- ASPHALT
- LIMEROCK FILL
- SHELLY SAND
- MEDIUM SAND
- ▶ WATER LOSS
- ▽ GROUND WATER LEVEL AT BORING COMPLETION
- B.T. BORING TERMINATED
- N: STANDARD PENETRATION RESISTANCE (AUTOMATIC HAMMER)
- W.C.: WATER CONTENT
- O.C.: ORGANIC CONTENT
- >4: PERCENT PASSING #4 SIEVE
- >200: PERCENT PASSING #200 SIEVE
- HAMMER WEIGHT = 140 LB
- DROP HEIGHT = 30 IN

THE TEST BORINGS WERE PERFORMED BY HRES USING A CME-55 TRUCK MOUNTED RIG.

GRANULAR MATERIALS:

DENSITY	SPT N-VALUE (BLOWS/12 INCHES)
VERY LOOSE	<3
LOOSE	3-8
MEDIUM DENSE	8-24
DENSE	24-40
VERY DENSE	>40

SILTS AND CLAYS:

CONSISTENCY	SPT N-VALUE (BLOWS/12 INCHES)
VERY SOFT	<1
SOFT	1-3
FIRM	3-6
STIFF	6-12
VERY STIFF	12-24
HARD	>24

CAM 21-0283
Exhibit 3
Page 15 of 15

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

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HERNANDO R. RAMOS, P.E.
P.E. LICENSE NUMBER 42045
HR ENGINEERING SERVICES, INC
7815 NW 72ND AVENUE
MEDLEY, FLORIDA 33166

26

DRAWN BY:	CHECKED BY:	DESIGNED BY:	CHECKED BY:
ME 02-18	NH 02-18	NH 02-18	HRR 02-18

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR A1A	BROWARD	436219-3-72-04

SHEET TITLE: REPORT OF CORE BORINGS

REF. DWG. NO.

PROJECT NAME: SR A1A/FORT LAUDERDALE BEACH BLVD AT SE 5 ST

SHEET NO. GT-1

HRESUser 9/28/2020 12:13:19 PM Z:\HR17-1347R SR A1A at SE 5 St\Borings\sggeo1.dgn