

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

SIGNALIZATION PLANS

FINANCIAL PROJECT ID 454032-1-52-01  
(FEDERAL FUNDS)  
MANATEE COUNTY (13040)

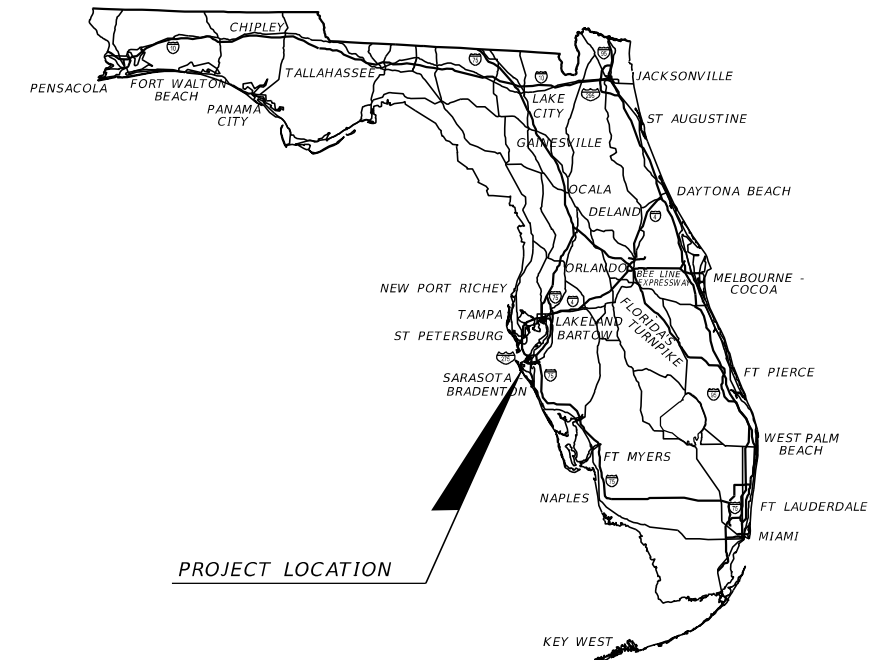
THIS PROJECT TO BE LET TO CONTRACT  
WITH FINANCIAL PROJECT ID(S):  
447379-1-52-01, 449120-1-52-01

INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES
4	REFERENCE POINTS
5	ROADWAY PLAN
6	SIGNING AND PAVEMENT MARKING PLAN
7-8	SIGNALIZATION PLAN
9	INTERCONNECT PLAN
10	LIGHTING PLAN
11	UTILITY LOCATION PLAN
12	CABINET DETAILS
13	SPlicing DETAIL
14-15	GUIDE SIGN WORKSHEET
16	STANDARD MAST ARM TABULATION SHEET
17	STANDARD MAST ARM ASSEMBLY DATA TABLE
18-19	TEMPORARY TRAFFIC CONTROL PLAN
20	REPORT OF CORE BORINGS

SR 684 AT ROYAL PALM DRIVE (SAN REMO SHORES SUBDIVISION)

PROJECT LOCATION URL: <https://tinyurl.com/mr2kaend>  
PROJECT LIMITS: BEGIN MP 2.267 - END MP 2.399  
EXCEPTIONS: NONE  
BRIDGE LIMITS: NONE  
RAILROAD CROSSING: NONE



PHASE IV SUBMITTAL  
10/02/2024

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2024-25 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

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

APPLICABLE IRs: IR N/A

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY 2024-25 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

SIGNALIZATION PLANS

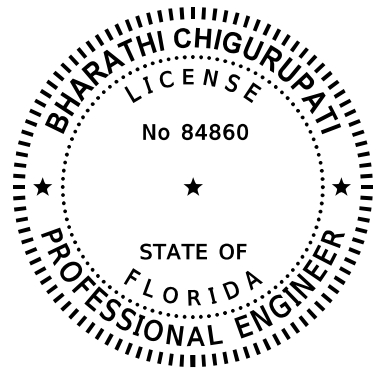
ENGINEER OF RECORD:

BHARATHI CHIGURUPATI, P.E.  
P.E. NO.: 84860  
(813) 265-9800  
DRMP, INC.  
15310 AMBERLY DRIVE, SUITE 310  
TAMPA, FLORIDA 33647  
CONTRACT NO.: CAO20  
VENDOR NO.: F591791174001

FDOT PROJECT MANAGER:

SCOTT MCCALL

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T1910	25	1



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

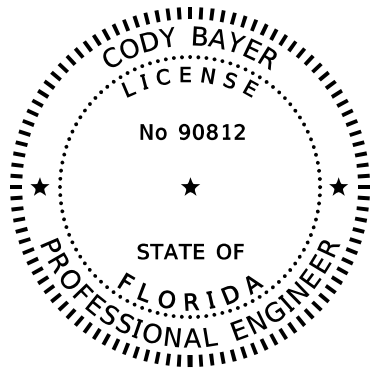
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

DRMP, INC.  
15310 AMBERLY DRIVE, SUITE 310  
TAMPA, FLORIDA 33647  
BHARATHI CHIGURUPATI, P.E.  
LICENSE NO. 84860

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

SIGNALIZATION PLANS

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
1	KEY SHEET
2	SIGNATURE SHEET
3	GENERAL NOTES
4	REFERENCE POINTS
6	SIGNING AND PAVEMENT MARKING PLAN
7-8	SIGNALIZATION PLAN
9	INTERCONNECT PLAN
10	LIGHTING PLAN
11	UTILITY LOCATION PLAN
12	CABINET DETAILS
13	SPLICING DETAIL
14-15	GUIDE SIGN WORKSHEET
16	STANDARD MAST ARM TABULATION SHEET



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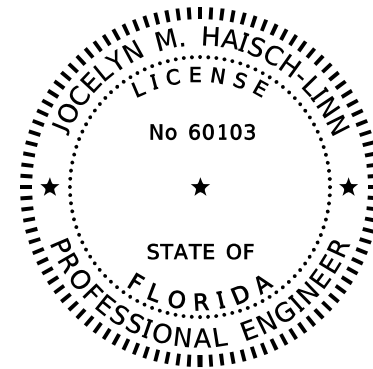
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DRMP, INC.  
941 LAKE BALDWIN LANE  
ORLANDO, FLORIDA 32814  
CODY BAYER, P.E.  
LICENSE NO. 90812

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

SIGNALIZATION PLANS

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
2	SIGNATURE SHEET
5	ROADWAY PLAN
18-19	TEMPORARY TRAFFIC CONTROL PLAN



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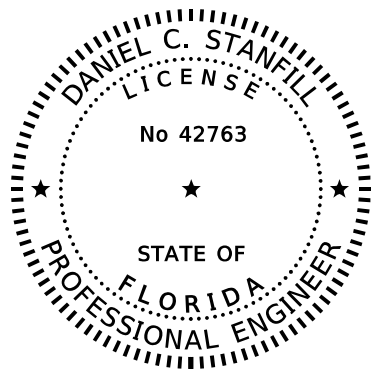
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DRMP, INC.  
941 LAKE BALDWIN LANE  
ORLANDO, FLORIDA 32814  
JOCELYN M. HAISCH-LINN, P.E.  
LICENSE NO. 60103

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

SIGNALIZATION PLANS

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
2	SIGNATURE SHEET
17	STANDARD MAST ARM ASSEMBLY DATA TABLE



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ON THE DATE ADJACENT TO THE SEAL

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GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.  
919 LAKE BALDWIN LANE,  
ORLANDO, FLORIDA 32814  
DANIEL C. STANFILL, P.E.  
LICENSE NO. 42763

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

SIGNALIZATION PLANS

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
2	SIGNATURE SHEET
20	REPORT OF CORE BORINGS

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	BHARATHI CHIGURUPATI, P.E. LICENSE NUMBER: P.E. 84860 DRMP, INC. 15310 AMBERLY DRIVE, SUITE 310 TAMPA, FL 33647		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 684	MANATEE	454032-1-52-01		2

**GENERAL NOTES**

- THE MAST ARM, STRAIN POLES, OR ANY OTHER SIGNAL EQUIPMENT REQUIRING FOUNDATIONS ARE PROPOSED WITHIN 4 FEET OF ANY UNDERGROUND UTILITY, THE UTILITY SHALL BE LOCATED, EXPOSED AND PROTECTED. THE INITIAL 5 FEET OF THE SHAFT INSTALLATION SHALL BE EXPOSED USING NON MECHANIZED EQUIPMENT.
- MAINTAINING AGENCY: MANATEE COUNTY FOR SIGNAL AND LIGHTING
- FP&L POWER COMPANY TO ASSIST CONTRACTOR IN PERFORMING ALL NECESSARY WORK UNDER THEIR POWER LINES, SUCH AS THE INSTALLATION OF SPAN WIRE, SIGNAL CABLE, FIBERGLASS INSULATORS AND SIGNAL POLES. CONTRACTOR TO NOTIFY THE POWER COMPANY AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO INSTALLATION OF THIS EQUIPMENT.
- AT LEAST TWO (2) FULL BUSINESS DAYS PRIOR TO BEGINNING THE TRAFFIC SIGNAL INSTALLATION, CONTACT THE TRAFFIC SIGNAL INSPECTOR/LIAISON:  
 MANATEE AND SARASOTA COUNTY  
 JAMES NICHOLS  
 FLORIDA DEPARTMENT OF TRANSPORTATION  
 MANATEE OPERATIONS CENTER  
 14000 STATE ROAD 64 EAST  
 BRADENTON, FL 34212  
 PHONE: 941-708-4429
- WHEN CONSTRUCTION IS COMPLETE, IN ADDITION TO THE REQUIREMENT OF STANDARD SPECIFICATION 9-8, PROVIDE A SET OF "AS-BUILT" PLANS TO:  
 TRAFFIC ENGINEERING DIVISION  
 MUKUNDA GOPALAKRISHNA, P.E., PTOE  
 TRAFFIC SYSTEMS ENGINEER  
 2101 47TH TERRACE E,  
 BRADENTON, FL 34203  
 MAIL: MUKUNDA.GOPALAKRISHNA@MYMANATEE.ORG  
 PHONE: 941-749-3500, EXT. 7813  
 WHEN CONSTRUCTION IS COMPLETE, PROVIDE A SET OF "AS-BUILT" PLANS IN ELECTRONIC FORM (PDF) TO:  
 FDOT TRAFFIC OPERATIONS  
 NEAL TURNER, P.E., TSM&O ENGINEER - ARTERIALS  
 801 N. BROADWAY AVE.  
 P.O. BOX 1249  
 BARTOW, FL 33830-1249  
 MAIL: NEAL.TURNER@DOT.STATE.FL.US  
 PHONE: 863-519-2216
- THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv Vh AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATION/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN POINTS HAVE NOT BEEN VERIFIED.
- ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPORTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:  
 DAVID-PAUL CHARLES, PSM  
 LS 7451  
 DRMP, INC.  
 15310 AMBERLY DRIVE, SUITE 310  
 TAMPA, FL 33647  
 LB 2648
- USE ROUTE MARKERS FOR FIBER OPTIC CONDUIT RUNS.
- SIGNAL CABINET WILL CONTAIN ONE (1) INTERNAL PHOTOCELL FOR INTERNALLY ILLUMINATED SIGNS.
- EXISTING MCAT BUS LOCATIONS (BENCH, TRASH BIN, AND SIGN) TO BE RELOCATED. PLEASE CONTACT STEVEN ROBERTS AT STEVEN.ROBERTS@MYMANATEE.ORG FOR MORE INFORMATION.
- COORDINATE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEMS (NPDES) DEWATERING ACTIVITIES THROUGH THE PROJECT ENGINEER, DISTRICT CONTAMINATION IMPACT COORDINATOR, AND CONTAMINATION ASSESSMENT & REMEDIATION CONTRACTOR TO ENSURE COMPLIANCE WITH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AND WATER MANAGEMENT DISTRICT. SEE CONTAMINATION MEMORANDIUM.
- NO VIBRATORY COMPACTION TO BE ALLOWED FOR MILLING AND RESURFACING OPERATIONS.
- UTILITY/AGENCY OWNERS / FOR THIS PROJECT INCLUDE:

COMPANY	CONTACT	TELEPHONE NUMBERS	EMAIL
MANATEE COUNTY UTILITY OPERATION	STEVE KERR	(941) 708-7450	STEVE.KERR@MYMANATEE.ORG
FP&L DISTRIBUTION	BRIAN GARVER	(239) 31-9471	BRIAN.GARVER@FPL.COM
FRONTIER COMMUNICATIONS	DENISE HUTTON	(941) 504-9452	DENISE.HUTTON@FTR.COM
VERIZON/MCI	MICHAEL KROL	(813) 410-4803	MICHAEL.KROL@VERIZON.COM
ZAYO GROUP	MARK MATHIS	(813) 509-2405	MARK.MATHIS@ZAYO.COM
UNITI FIBER	TERRY YOUNG	(251) 422-3872	TERRY.YOUNG@UNITI.COM
CHARTER/SPECTRUM	PATRICK PISTNER	(941) 737-5159	PATRICK.PISTNER@CHARTER.COM

**PAY ITEM NOTES**

- 632-7-1:  
 VERIFY THE COLOR CODE OF SIGNAL CABLE WITH THE MAINTAINING AGENCY PRIOR TO WIRING INTERSECTION.  
 USE A MINIMUM OF 7 CONDUCTOR SIGNAL CABLE FOR SIGNAL HEADS AND PEDESTRIAN HEADS.

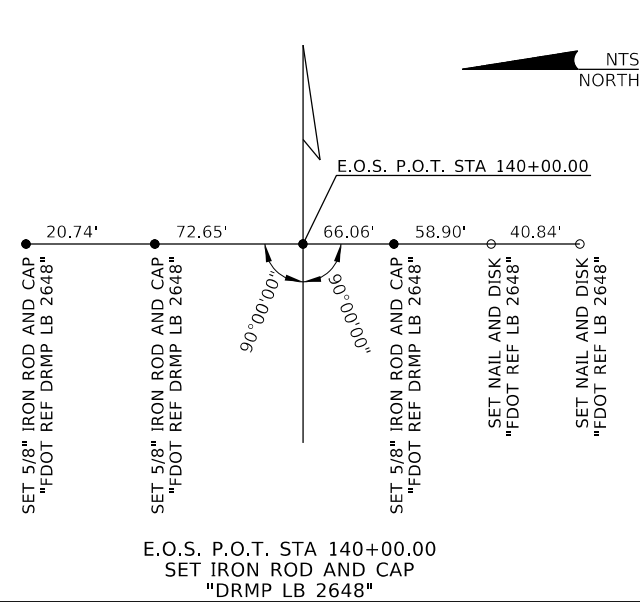
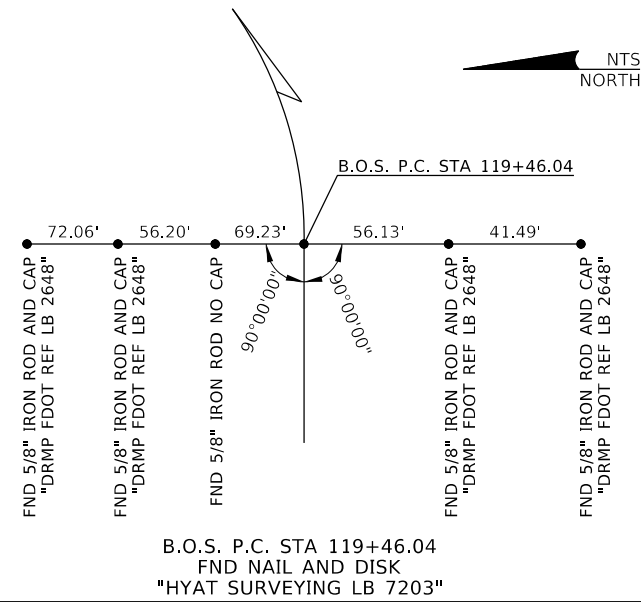
**PAY ITEM NOTES**

- 633-1-121:  
 INTERCONNECT CABLE IS NOT TO SHARE A PULL BOX OR CONDUIT WITH OTHER CABLES.  
 IMMEDIATELY FOLLOWING NOTICE TO PROCEED FOR CONSTRUCTION, PROOF EXISTING SPARE FIBER CONDUIT PRIOR TO INSTALLATION OF NEW FIBER OPTIC CABLE IN-ORDER TO AVOID DELAYS AND ADDRESS ANY UNFORESEEN CONDUIT OBSTRUCTIONS.
- 635-2-11/ 635-2-12:  
 PULL BOXES ARE TO BE PLACED BEHIND CURB AND GUTTER. IF THERE IS NO CURB AND GUTTER, PULL BOXES SHALL BE PLACED A MINIMUM OF 7' FROM THE EDGE OF PAVEMENT.  
 USE POLYMER CONCRETE CONSTRUCTION PULL BOX WITH A POLYMER CONCRETE, COVER MARKED "MANATEE COUNTY FIBER OPTIC SYSTEM" FOR FIBER OPTIC COMMUNICATION. USE 24" X 36" PULL BOXES PLACED A MINIMUM OF 800' APART.
- 635-2-14:  
 USE POLYMER CONCRETE CONSTRUCTION PULL BOXES (STANDARD) TO BE A MINIMUM OF SEVENTEEN INCHES (17") (LENGTH) X THIRTY INCHES (30") (WIDTH) X TWELVE INCHES 12" (DEPTH). THE LID SHALL BE STAMPED "MANATEE COUNTY TRAFFIC SIGNAL" ON THE COVER.
- 639-1-121:  
 USE ALUMINUM RIGID ABOVEGROUND CONDUIT FOR ELECTRICAL POWER SERVICE.
- 646-1-11:  
 USE LOCKING COLLARS WHEN MOUNTING ALUMINUM PEDESTRIAN POLES TO PEDESTRIAN PEDESTAL BASES.  
 USE BREAKAWAY ALUMINUM SQUARE BASE ASSEMBLIES WITH ALUMINUM DOORS FOR PEDESTRIAN PEDESTALS.
- 649-21-23:  
 USE TWO 2" AND ONE 1" CONDUITS STUBBED OUT THROUGH THE MAST ARM POLE FOUNDATION AND TEMPORARILY SEAL.  
 ALL MAST ARM ASSEMBLIES SHALL HAVE A TERMINAL COMPARTMENT.  
 ALL MAST ARM POLES ARE TO BE GALVANIZED NON-PAINTED. SEE FDOT DESIGN MANUAL, SECTION 232.8.1 (MAST ARM SUPPORTS) FOR STATE DESIGN REQUIREMENT.
- 650-1-34, 650-1-35 AND 650-1-36:  
 USE LOUVERED POLYCARBONATE SIGNAL HEAD WITH RIGID RETROREFLECTIVE BACKPLATES.  
 USE MANATEE COUNTY TRAFFIC OPERATIONS WIRING DIAGRAM WHEN WIRING DISCONNECTS AND SIGNALS. WIRING DIAGRAM MAY BE OBTAINED BY CONTACTING MANATEE COUNTY TRAFFIC OPERATIONS AT (941) 748-4501 PRIOR TO BEGINNING OF CONSTRUCTION.
- 653-1-11:  
 PEDESTRIAN SIGNAL HEADS TO BE 16" INTERNATIONAL SYMBOL, LED COUNTDOWN TYPE.
- 660-3-11 AND 660-3-12:  
 SEE PLAN SHEET FOR THE NUMBER OF MICROWAVE DETECTORS INCLUDED IN THE MICROWAVE DETECTION ASSEMBLY WITH ARC DEVICE.  
 MICROWAVE VEHICLE DETECTION SYSTEM TO BE WAVETRONIX. SUBMIT SHOP DRAWINGS FOR APPROVAL.
- 665-1-12:  
 USE PEDESTRIAN BUTTON SIGNAL SIGN FTP-68B-06 OR R10-3e. STREET NAME SHALL BE IN ACCORDANCE WITH THE STREET NAMES SHOWN ON THE SIGNALIZATION PLAN SHEETS. USE IDS2 2 WIRE CENTRAL CONTROL SYSTEM WITH TOUCHLESS ACTUATION FEATURE (APL# 665-004-013).
- 670-5-111:  
 USE CONCRETE FOR CONTROLLER STEPS AS REQUIRED. BASE OF CONTROLLER TO BE SAME ELEVATION AS CENTER OF ROADWAY OR GREATER.  
 USE A NEMA TS2 TYPE 1 AS DESCRIBED IN THE 2003 NEMA STANDARD TS2 PUBLICATION. THE CONTROLLER SUPPLIED WITH THE CABINET SHALL BE A NAZTEC 980 ATC TS2 TYPE 1. THE NAZTEC 980 CONTROLLER SHALL COME EQUIPPED WITH 4 SERIAL PORTS AND ONE ETHERNET PORT. THE CABINETS SHALL BE FULLY COMPATIBLE WITH MANATEE COUNTY'S ATMS (NAZTEC'S ATMS NOW). THE CABINETS SHALL COME EQUIPPED WITH ALL THE NECESSARY SYSTEM COMPONENTS FOR INTEGRATION INTO ETHERNET BASED FIBER OPTIC NETWORK.  
 USE A MINIMUM OF FOUR (4) PREEMPTION PLANS FOR CONTROLLER.  
 CONTROLLER MMU (MALFUNCTION MANAGEMENT UNIT) TO BE COMPATIBLE WITH FOUR SECTION HEAD OPERATION/LOGIC.  
 ALL CONTROLLER EQUIPMENT TO BE COMPATIBLE WITH MANATEE COUNTY'S EXISTING CENTRAL SOFTWARE SYSTEM. (CUBIC/TRAFFICWARE ATMS NOW). CONTACT MAINTAINING AGENCY PRIOR TO ORDERING CONTROLLER ASSEMBLY TO CONFIRM EQUIPMENT COMPATIBILITY.  
 IF EQUIPMENT CANNOT BE FURNISHED IN TIME FOR CONSTRUCTION, USE EQUIPMENT FURNISHED BY DEPARTMENT. PICK UP OF EQUIPMENT TO BE COORDINATED WITH THE DEPARTMENT OR COUNTY. EQUIPMENT FURISHED BY THE DEPARTMENT USED BY THE CONTRACTOR WILL BE REPLACED IN KIND BY THE CONTRACTOR AT NO COST TO THE DEPARTMENT AND WILL BE DELIVERED TO TSM&O DEPARTMENT AT THE ADDRESS BELOW. DIRECT QUESTIONS TO NEAL TURNER (239-841-4902). DELIVERY TO BE MADE BETWEEN 8:00 AM - 3:00 PM, MONDAY THROUGH THURSDAY ONLY. NO DELIVERY WILL BE ACCEPTED ON FRIDAY OR STATE OBSERVED HOLIDAYS.
- FDOT BARTOW WAREHOUSE  
 ATTN: ROBERT PETERSON  
 2730 STATE ROAD 60 W  
 BARTOW, FL 33830
- 682-1-113:  
 POWER FOR THE CCTV CAMERA MUST BE IN A SEPARATE CONDUIT FROM THE ETHERNET AND LOW VOLTAGE CONNECTIONS. MOUNT THE CAMERA AT A HEIGHT OF 39 FEET ABOVE GROUND.  
 THE SYSTEM INSTALLER SHALL LEAVE A MINIMUM OF 30 INCHES OF SPARE CABLE AT EACH CAMERA BRACKET. THE SLACK SHALL BE NEATLY FORMED INTO A LOOP AND SECURED TO THE CAMERA. A MINIMUM OF 10 FEET OF VIDEO CABLE SLACK SHALL BE NEATLY STORED AT EACH PULL BOX LOCATION WITHIN A CONDUIT RUN. A MINIMUM OF 30 FEET OF SLACK SHALL BE AVAILABLE FOR EACH NEW VIDEO DETECTION CABLE RUN. USE CCTV - BOSCH ITS 7000i STARLITE SERIES 1080P 30x40.
- 684-1-1:  
 USE RUGGEDCOM SWITCH MODEL #RS6920P (6GK6092-0PS23-0BA0-Z A05+B05+C02+D02).
- 685-1-13:  
 THE CONTRACTOR SHALL COORDINATE WITH FDOT OR MANATEE COUNTY FOR THE PICK UP OF THE UPS.  
 UPS UNIT - APL 685-02-018, DUAL CONVERSION WITHOUT CABINET, NO GENERATOR INLET  
 UPS CABINET - STANDALONE/ PIGGYBACK CABINET ONLY

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	BHARATHI CHIGURUPATI, P.E. LICENSE NUMBER: P.E. 84860 DRMP, INC. 15310 AMBERLY DRIVE, SUITE 310 TAMPA, FL 33647		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 684	MANATEE	454032-1-52-01	3

**GENERAL NOTES**

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



- = SET 5/8" IRON ROD AND CAP "FDOT REF LB 2648" (UNLESS OTHERWISE NOTED)
- = SET NAIL AND DISK "FDOT REF LB 2648" (UNLESS OTHERWISE NOTED)
- B.O.S. = BEGINNING OF SURVEY
- E.O.S. = END OF SURVEY
- FND = FOUND
- F.P. = FINANCIAL PROJECT
- ID = IDENTIFICATION
- LB = LICENSED BUSINESS
- NAD = NORTH AMERICAN DATUM
- NAVD = NORTH AMERICAN VERTICAL DATUM
- NO. = NUMBER
- NTS = NOT TO SCALE
- P.C. = POINT OF CURVATURE
- P.O.T. = POINT ON TANGENT
- SR = STATE ROAD
- STA = STATION

SR 684 (CORTEZ ROAD)  
 F.P. ID.: 443574-1-32-02  
 SURVEY PERFORMED BY: DRMP, INC.  
 SURVEY DATE: MARCH 22, 2024

HORIZONTAL AND VERTICAL CONTROL - DATUM NAD83(2011) / NAVD88

POINT	NORTHING	EASTING	ELEVATION	LATITUDE	LONGITUDE	STATION	OFFSET	SCALE FACTOR	DESCRIPTION
A1	1137577.133	440718.854	4.82'	27°27'42.0521"	82°39'51.7719"	125+17.92	48.16' RT	0.999994389	SET 5/8" IRON ROD AND CAP "DRMP TRAV LB 2648"
A2	1137635.008	441025.357	5.43'	27°27'42.6414"	82°39'48.3729"	128+17.41	37.44' LT	0.999994238	SET 5/8" IRON ROD AND CAP "DRMP LB 2648"
A3	1137556.729	441392.548	4.83'	27°27'41.8857"	82°39'44.2922"	131+85.45	37.06' RT	0.999994057	SET 5/8" IRON ROD AND CAP "DRMP LB 2648"
BM8	1137560	441287	4.987'	27°27'41.9125"	82°39'45.4640"	130+79.7	35.2' RT	N/A	RECOVERED NAIL AND DISK "DRMP BM LB2468"
BM9	1137544	442278	5.178'	27°27'41.8063"	82°39'34.4622"	140+71	41.0' RT	N/A	RECOVERED NAIL AND DISK "DRMP BM LB2648"

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	DEPARTMENT OF TRANSPORTATION			REFERENCE POINTS			
				ROAD NO.	COUNTY	FINANCIAL PROJECT ID				
				BHARATHI CHIGURUPATI, P.E. LICENSE NUMBER: P.E. 84860 DRMP, INC. 15310 AMBERLY DRIVE, SUITE 310 TAMPA, FL 33647			SR 684	MANATEE	454032-1-52-01	4

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**WEST MANATEE  
FIRE RESCUE STATION 2**

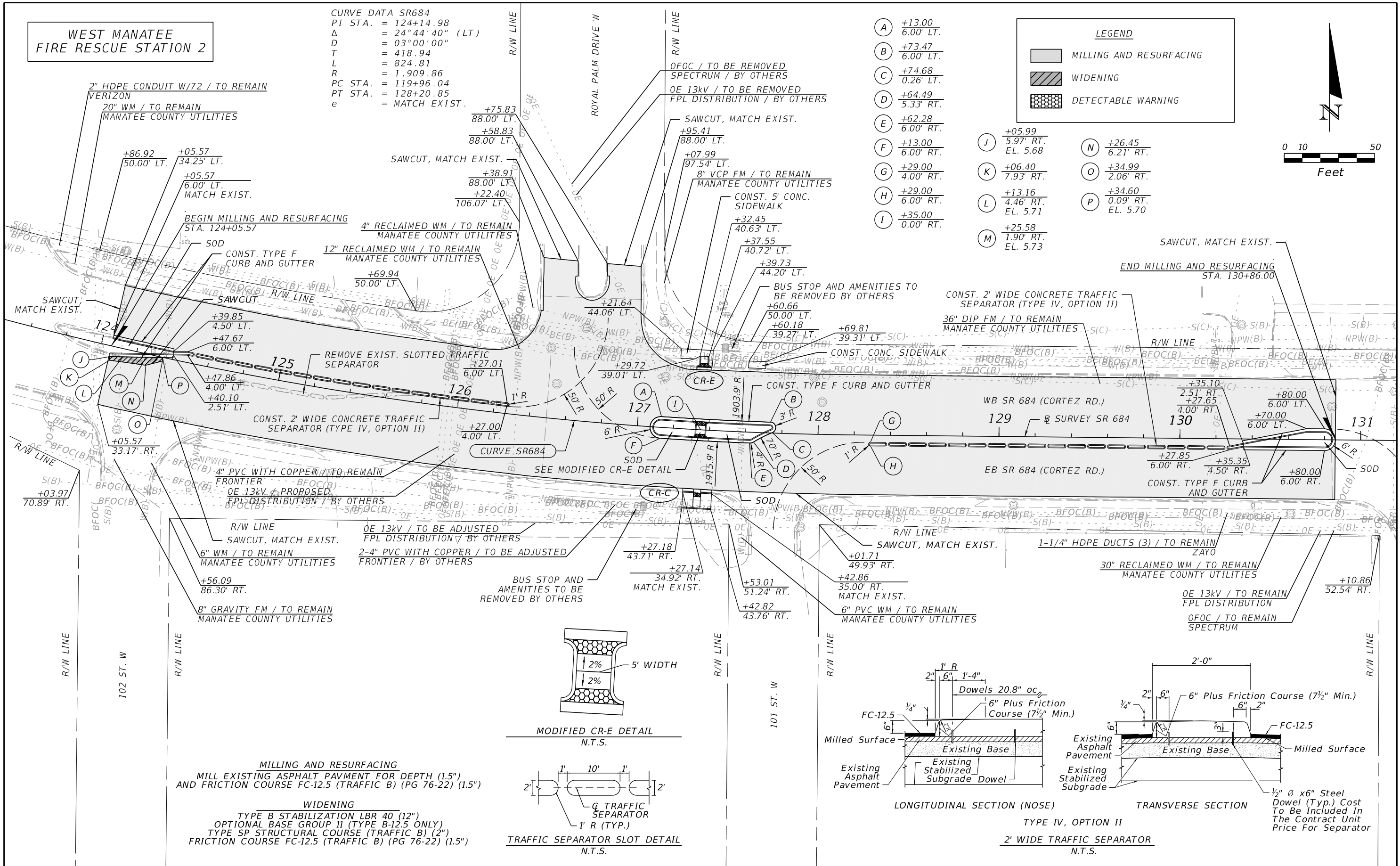
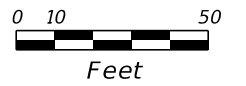
CURVE DATA SR684  
 PI STA. = 124+14.98  
 Δ = 24°44'40" (LT)  
 D = 03°00'00"  
 T = 418.94  
 L = 824.81  
 R = 1,909.86  
 PC STA. = 119+96.04  
 PT STA. = 128+20.85  
 e = MATCH EXIST.

- (A) +13.00 / 6.00' LT.
- (B) +73.47 / 6.00' LT.
- (C) +74.68 / 0.26' LT.
- (D) +64.49 / 5.33' RT.
- (E) +62.28 / 6.00' RT.
- (F) +13.00 / 6.00' RT.
- (G) +29.00 / 4.00' RT.
- (H) +29.00 / 6.00' RT.
- (I) +35.00 / 0.00' RT.

- (J) +05.99 / 5.97' RT. / EL. 5.68
- (K) +06.40 / 7.93' RT.
- (L) +13.16 / 4.46' RT. / EL. 5.71
- (M) +25.58 / 1.90' RT. / EL. 5.73

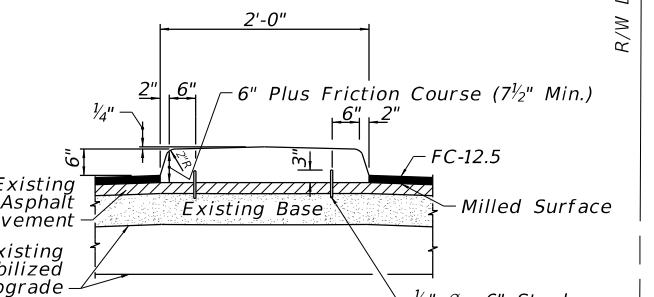
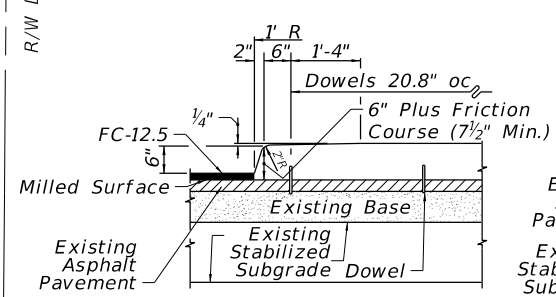
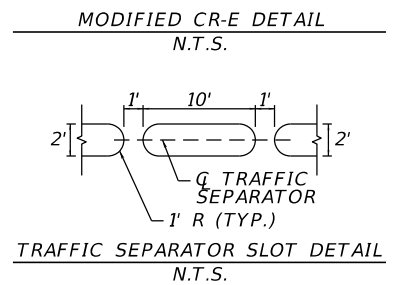
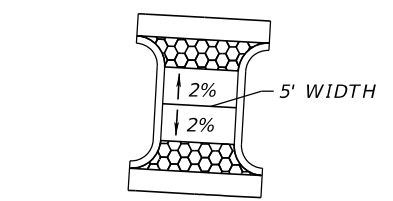
**LEGEND**

- MILLING AND RESURFACING
- WIDENING
- DETECTABLE WARNING



**MILLING AND RESURFACING**  
 MILL EXISTING ASPHALT PAVMENT FOR DEPTH (1.5")  
 AND FRICTION COURSE FC-12.5 (TRAFFIC B) (PG 76-22) (1.5")

**WIDENING**  
 TYPE B STABILIZATION LBR 40 (12")  
 OPTIONAL BASE GROUP 11 (TYPE B-12.5 ONLY)  
 TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2")  
 FRICTION COURSE FC-12.5 (TRAFFIC B) (PG 76-22) (1.5")



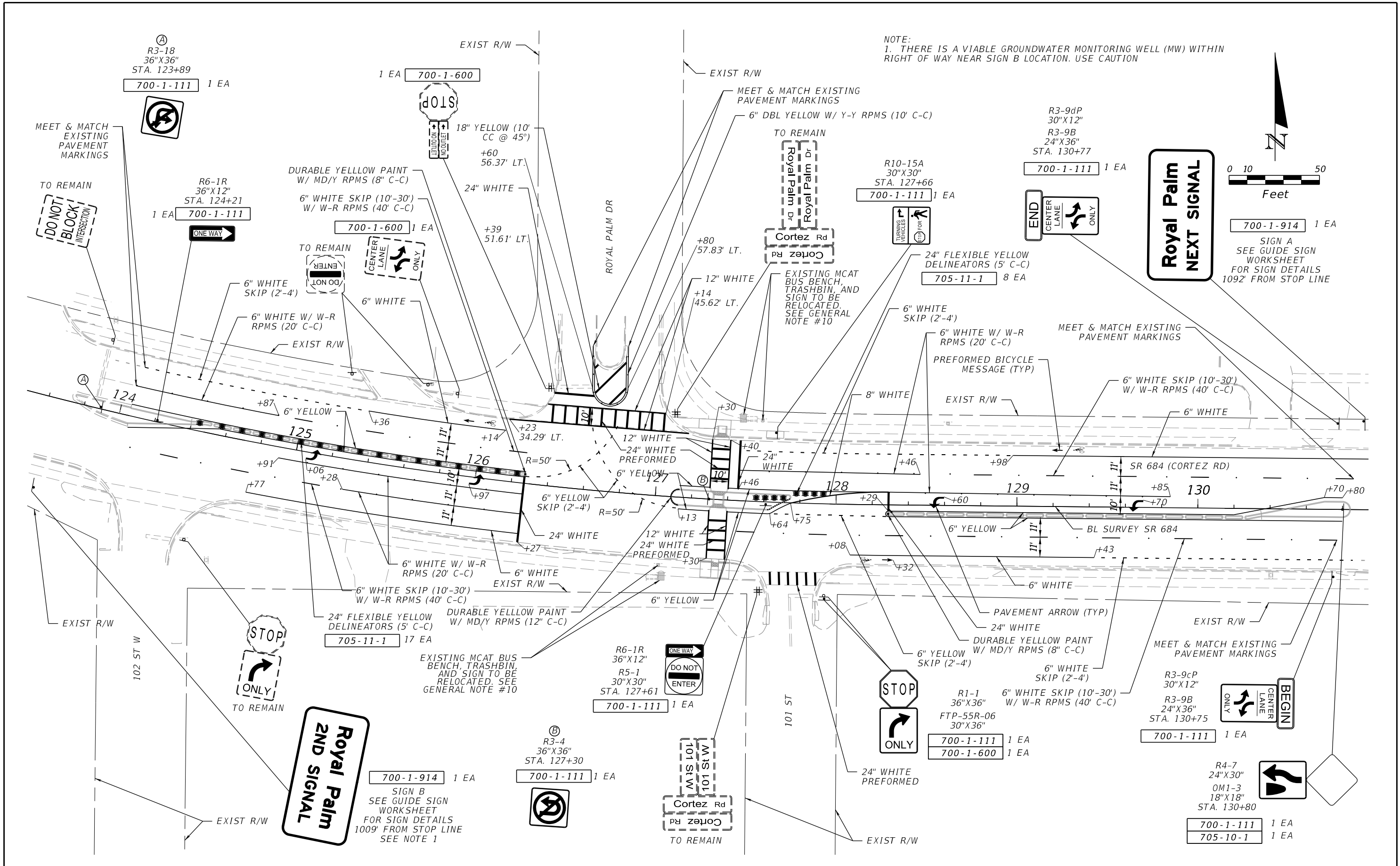
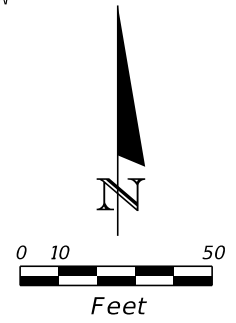
LONGITUDINAL SECTION (NOSE)  
 TYPE IV, OPTION II  
 2' WIDE TRAFFIC SEPARATOR  
 N.T.S.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	CODY BAYER, P.E. LICENSE NUMBER: P.E. 90812 DRMP, INC. 941 LAKE BALDWIN LANE ORLANDO, FL 32814		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 684	MANATEE	454032-1-52-01	5

**ROADWAY PLAN**

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

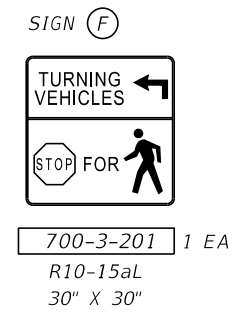
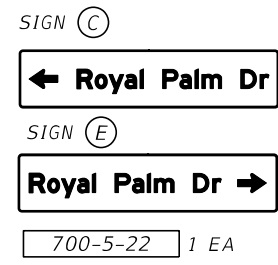
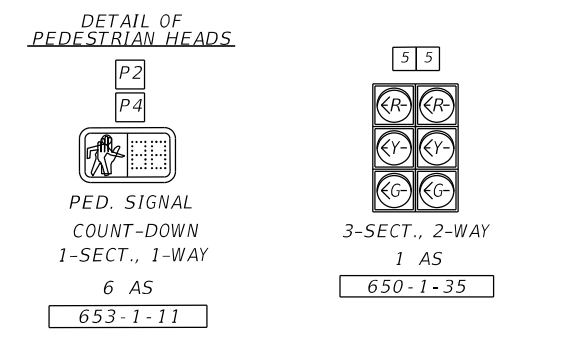
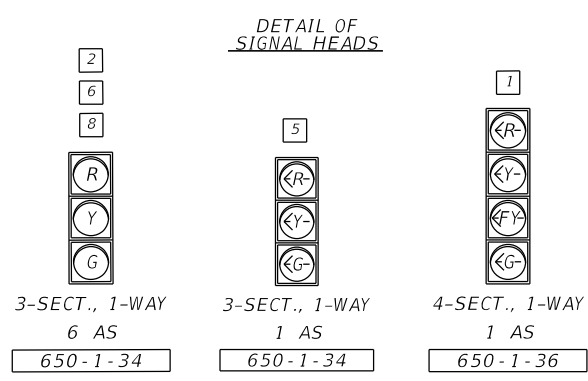
NOTE:  
1. THERE IS A VIABLE GROUNDWATER MONITORING WELL (MW) WITHIN RIGHT OF WAY NEAR SIGN B LOCATION. USE CAUTION



REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. 6
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
			BHARATHI CHIGURUPATI, P.E. LICENSE NUMBER: P.E. 84860 DRMP, INC. 15310 AMBERLY DRIVE, SUITE 310 TAMPA, FL 33647	SR 684	MANATEE	454032-1-52-01	

**SIGNING AND PAVEMENT MARKING PLAN**

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**NOTES:**  
 1. THE ELECTRICAL SERVICE DISCONNECT IS 100 AMP, COMPRISING OF A SIX (6) CIRCUIT DISCONNECT BOX WITH THREE CIRCUIT BREAKERS, ONE TWO-POLE 60 AMP/240 VOLT MAIN BREAKER, ONE SINGLE-POLE 50 AMP/120 VOLT BREAKER FOR CONTROLLER/INTERNALLY ILLUMINATED STREET SIGNS AND ONE SINGLE-POLE 30 AMP/120 VOLT BREAKER FOR STAND ALONE ROADWAY LIGHTING.

**(A)**  
 SUPPLEMENTAL SIGNAL POLE  
 STA. 127+48.18  
 00.85' LT.  
 POLE HEIGHT 10'  
 630-2-11 3 LF  
 635-2-11 4 EA  
 646-1-11 1 EA  
 (3 RUNS - 1 SIGNAL HIGH, 1 SIGNAL LOW, AND 1 SPARE)

**(B)**  
 PED POLE C  
 STA. 127+36.40  
 42.65' RT.  
 630-2-11 7 LF  
 646-1-11 1 EA  
 665-1-12 1 EA  
 (2 RUNS - 1 SIGNAL HIGH, 1 SIGNAL LOW)

**(G)**  
 PED POLE E  
 STA. 127+48.70  
 44.40' RT.  
 630-2-11 5 LF  
 635-2-11 4 EA  
 646-1-11 1 EA  
 665-1-12 1 EA  
 (2 RUNS - 1 SIGNAL HIGH, 1 SIGNAL LOW)

**(H)**  
 PED POLE F  
 STA. 128+03.87  
 44.62' RT.  
 630-2-11 5 LF  
 635-2-11 2 EA  
 646-1-11 1 EA  
 665-1-12 1 EA  
 (2 RUNS - 1 SIGNAL HIGH, 1 SIGNAL LOW)

**(EL 6.876')**  
 (5 RUNS - 1 SIGNAL HIGH, 1 SIGNAL LOW, 1 LIGHTING, AND 2 SPARES)  
 17 LF 630-2-11  
 1 EA 635-2-11  
 17 LF 639-2-1  
 1 EA 641-2-12  
 1 EA 639-3-11  
 2-POLE DISCONNECT SEE NOTE 1  
 (4 RUNS - 1 SIGNAL HIGH, 1 SIGNAL LOW, 1 LIGHTING, 1 POWER)  
 13 LF 630-2-11  
 PED POLE D  
 STA. 126+26.49  
 44.52' LT.  
 5 LF 630-2-11  
 4 EA 635-2-11  
 1 EA 646-1-11  
 1 EA 665-1-12  
 (2 RUNS - 1 SIGNAL HIGH, 1 SIGNAL LOW)

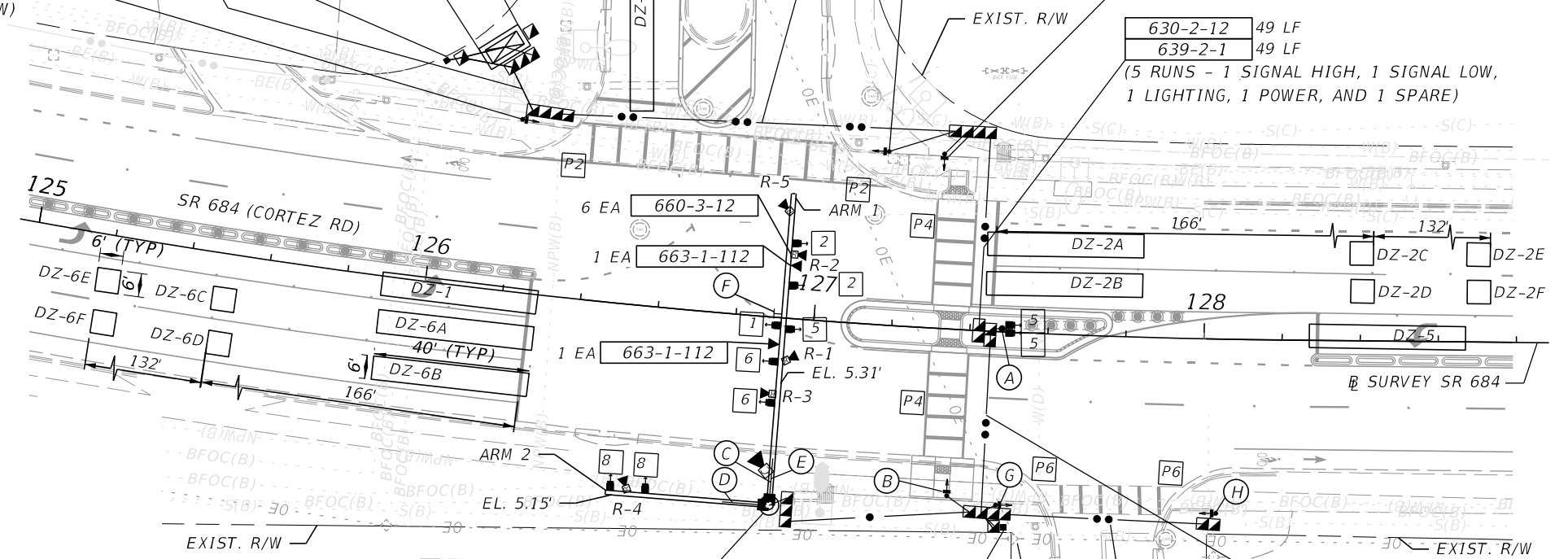
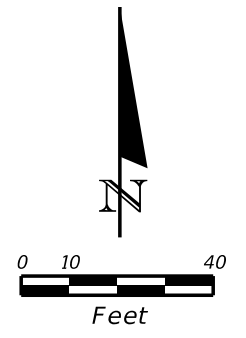
**(EL 6.876')**  
 (5 RUNS - 1 SIGNAL HIGH, 1 SIGNAL LOW, 1 LIGHTING, AND 2 SPARES)  
 1 EA 611-2-1  
 7 LF 630-2-11  
 1 PI 632-7-1  
 12 EA 633-2-31  
 1 EA 633-3-12  
 12 EA 633-3-13  
 1 EA 633-3-16  
 4 EA 635-2-14  
 1 EA 660-3-11  
 1 EA 663-1-111  
 1 AS 670-5-111  
 1 EA 684-1-1  
 1 EA 685-1-13  
 1 EA 685-2-1

630-2-12 102 LF  
 639-2-1 102 LF  
 5 RUNS - 1 SIGNAL HIGH, 1 SIGNAL LOW, 1 LIGHTING, 1 POWER AND 1 SPARE)

PED POLE A  
 STA. 127+13.73  
 44.89' LT.  
 630-2-12 18 LF  
 646-1-11 1 EA  
 665-1-12 1 EA  
 (2 RUNS - 1 SIGNAL HIGH, 1 SIGNAL LOW)

PED POLE B  
 STA. 127+31.83  
 40.60' LT.  
 630-2-12 8 LF  
 635-2-11 4 EA  
 646-1-11 1 EA  
 665-1-12 1 EA  
 (2 RUNS - 1 SIGNAL HIGH, 1 SIGNAL LOW)

630-2-12 49 LF  
 639-2-1 49 LF  
 (5 RUNS - 1 SIGNAL HIGH, 1 SIGNAL LOW, 1 LIGHTING, 1 POWER, AND 1 SPARE)



**(1) (EL 5.69')**  
 POLE LOCATION= STA. 126+92.22  
 48.09' RT.  
 630-2-11 48 LF  
 635-2-11 3 EA  
 649-21-23 1 EA  
 682-1-113 1 EA  
 (4 RUNS - 1 SIGNAL HIGH, 1 SIGNAL LOW, AND 1 LIGHTING)  
 MAST ARM STRUCTURE NUMBER - 16M221

630-2-11 5 LF  
 635-2-11 1 EA  
 639-1-122 1 AS  
 639-2-1 5 LF  
 641-2-12 1 EA  
 EXISTING 120/240V POINT OF POWER SERVICE

630-2-12 47 LF  
 639-2-1 47 LF  
 (5 RUNS - 1 SIGNAL HIGH, 1 SIGNAL LOW, 1 LIGHTING, 1 POWER AND 1 SPARE)

630-2-12 51 LF  
 (3 RUNS - 1 SIGNAL HIGH, 1 SIGNAL LOW, AND 1 SPARE)

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	BHARATHI CHIGURUPATI, P.E. LICENSE NUMBER: P.E. 84860 DRMP, INC. 15310 AMBERLY DRIVE, SUITE 310 TAMPA, FL 33647		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 684	MANATEE	454032-1-52-01	7

**SIGNALIZATION PLAN (1)**

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

CONTROLLER TIMINGS								
Movement # (Controller Phase Ø)	1	2	3	4	5	6	7	8
DIRECTION	EBL	WB			WBL	EB		SBL
TURN TYPE	P/P							
MINIMUM GREEN	5.0	15.0			5.0	15.0		5.0
EXTENSION	3.0	3.0			3.0	3.0		3.0
YELLOW	4.8	4.8			4.8	4.8		3.4
ALL RED	2.0	2.1			2.8	2.1		4.2
MAX I	10	45			10	45		20
MAX II								
MAX LIMIT								
ADJUST BY								
WALK		7				7		7
FLASHING DON'T WALK		22				11		20
DETECTOR MEMORY		OFF						OFF
DET. CROSS SWITCH.	ON							
DUAL ENTRY		ON				ON		
RECALL		MIN				MIN		

TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

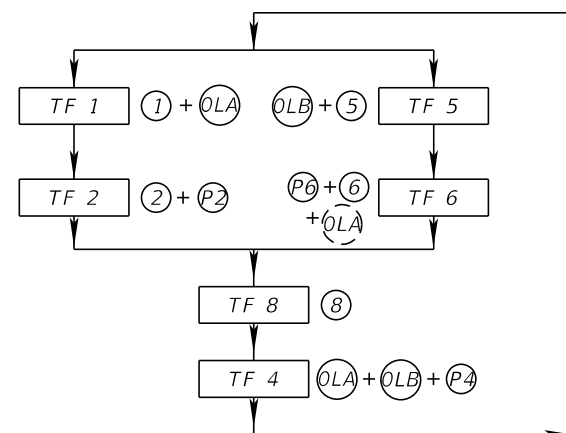
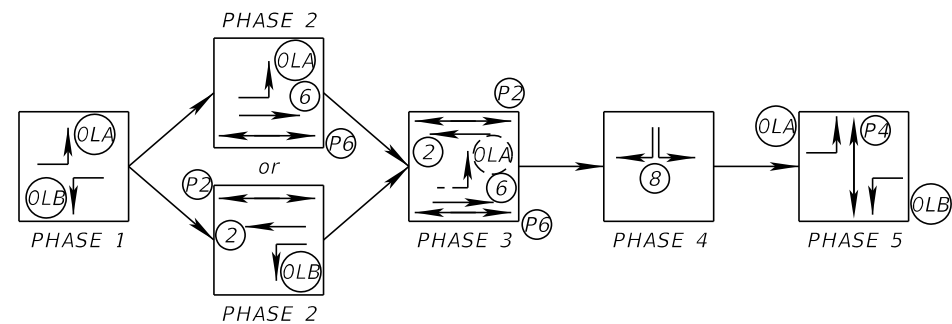
P/P = PROTECTED/ PERMISSIVE

PRE-EMPTION TIMINGS	
PREEMPTION TIMING PLAN	3(EB)
PRIORITY	6
DELAY BEFORE PREEMPTION (SEC)	0
MINIMUM GREEN BEFORE PRE-EMPTION	*
LOCK CALL	OFF
MAXIMUM PRESENCE (SEC)	140
YELLOW CLEARANCE	**
ALL RED CLEARANCE	**
DWELL PHASE	1&6
MINIMUM DWELL	10
YELLOW CLEARANCE	**
ALL RED CLEARANCE	**
EXIT PHASES	2&6

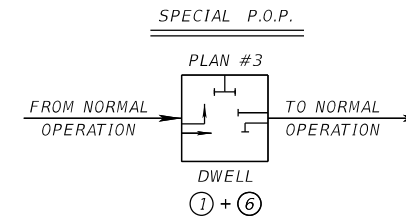
- \* ENTRY INTO PREEMPTION SHALL NOT VIOLATE MINIMUM GREEN OR PEDESTRIAN CLEARANCE INTERVALS.
- \*\* YELLOW AND ALL RED INTERVALS DURING PREEMPTION SHALL BE THE SAME VALUES USED DURING NORMAL CONTROLLER OPERATIONS.
- CONTROLLER BRAND: (FIELD VERIFY)

MICROWAVE VEHICLE DETECTION ASSIGNMENTS			
DETECTOR	DETECTION ZONE	CONNECT TO MOVEMENT	DELAY TIME (SEC)
R-1	DZ-5	5	
	DZ-2A	2	
	DZ-2B		
R-2	DZ-2C	2	
	DZ-2D		
	DZ-2E		
	DZ-2F		
R-3	DZ-6C	6	
	DZ-6D		
	DZ-6E		
	DZ-6F		
R-4	DZ-6A	2	
	DZ-6B		
	DZ-1	1	
R-5	DZ-8	8	8

SPECIAL SOP



OLA IS SIGNAL HEAD 1. IT WILL SHOW A STEADY GREEN ARROW DURING PH 1 AND 5, AND WILL FLASH YELLOW DURING PH 2 AND 3. OLB IS SIGNAL HEAD 5.



NOTES:

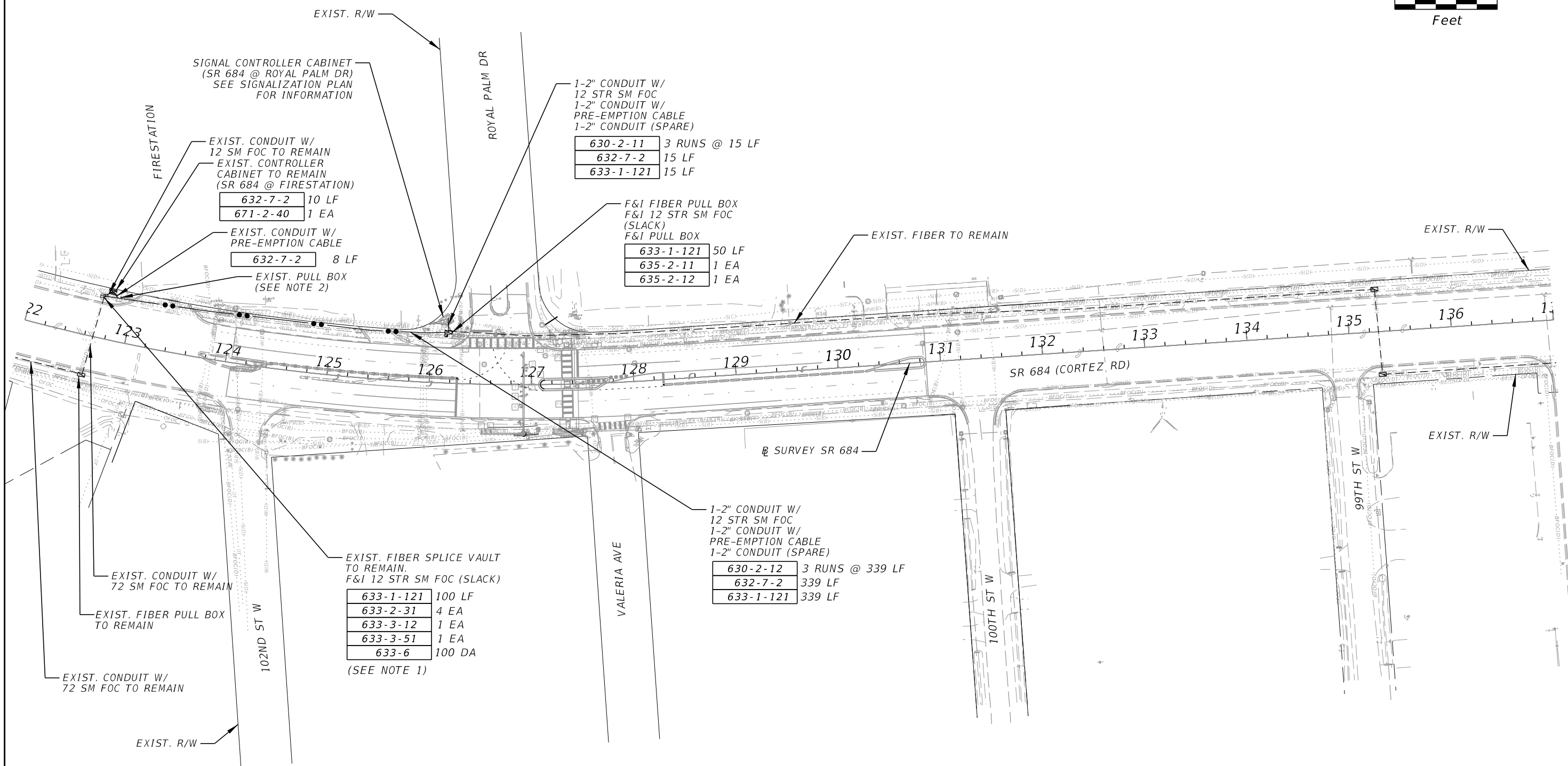
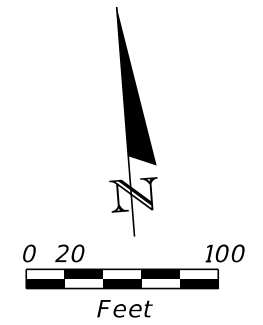
- MAJOR STREET IS SR 684 (45 MPH) AND MINOR STREET IS ROYAL PALM DR (20 MPH).
- SPECIAL OPERATING PLAN WITH THE FOLLOWING:
  - CONCURRENT/ ACTUATED PEDESTRIAN MOVEMENTS FOR P2 AND P4.
  - WHEN SIGNAL IS IN FLASHING MODE, MOVEMENTS 2 AND 6 SHALL FLASH YELLOW. ALL OTHER MOVEMENTS SHALL FLASH RED.
- REQUEST UPDATED SIGNAL TIMINGS FROM FDOT TSM&O ENGINEER - ARTERIALS (863-519-2216) WHEN ALL LANES, STRIPING, SIGNALS AND PEDESTRIAN FACILITIES ARE IN THEIR FINAL CONFIGURATION AND THE SIGNAL IS OPERATING AS DESIGNED. PROVIDE FDOT WITH ALL "AS-BUILT" INFORMATION NECESSARY TO DEVELOP THE BASIC SIGNALS TIMING PARAMETERS AND ALLOW THREE (3) WEEKS FOLLOWING THE REQUEST FOR FDOT TO DEVELOP THE UPDATED TIMINGS. PROGRAM THE CONTROLLER PER THE TIMINGS PROVIDED BY FDOT.
- MICROWAVE DETECTION ZONES AT STOP BAR TO BE 6' X 40' AND 2' IN FRONT OF STOP BAR.
- PREEMPTION FROM THE FIRE STATION IS HARDWIRED. INSTALL PREEMPTION CABLE FROM THE FIRE STATION EMERGENCY SIGNAL TO THE WEST. BUTTON OPERATION AT THE FIRE STATION SHOULD PREEMPT BOTH SIGNALS (EMERGENCY SIGNAL AND THE PROPOSED SIGNAL). PREEMPTION DWELL PHASE TO ONLY HELP OUTBOUND MOVEMENT FROM THE FIRE STATION.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				BHARATHI CHIGURUPATI, P.E. LICENSE NUMBER: P.E. 84860 DRMP, INC. 15310 AMBERLY DRIVE, SUITE 310 TAMPA, FL 33647		SR 684	MANATEE	454032-1-52-01	8

**SIGNALIZATION PLAN (2)**



NOTE:  
 1. INTERCEPT EXISTING FIBER SPLICE VAULT WITH PROPOSED CONDUIT.  
 2. INTERCEPT EXISTING PULL BOX WITH PROPOSED CONDUIT WITH PRE-EMPTION CABLE.  
 PULL SIGNAL CABLE THROUGH EXISTING SPARE CONDUIT TO THE EXISTING CONTROLLER CABINET.



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							SR 684	MANATEE	454032-1-52-01	9

**INTERCONNECT PLAN**

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**LEGEND**

**SYMBOL DESCRIPTION**

- PROPOSED 35' MH STAND-ALONE UTILITY CONFLICT LIGHT POLE COMPLETE (SEE LIGHTING DATA TABLE FOR LUMINAIRE INFORMATION). PULL BOX AND PCDS PAID FOR SEPARATELY.
- PROPOSED 35' MH STANDARD LIGHT POLE COMPLETE (SEE LIGHTING DATA TABLE FOR LUMINAIRE INFORMATION) W/ 15' ARM. PULL BOX AND PCDS PAID FOR SEPARATELY.
- PROPOSED 35' MH STANDARD LIGHT POLE COMPLETE, STANDARD SPREAD FOOTING (6'X7' AT LEAST 4' CLEARANCE FROM FACE BASE TO CONCRETE EDGE) W/ 15' ARM (SEE LIGHTING DATA TABLE FOR LUMINAIRE INFORMATION). PULL BOX AND PCDS PAID FOR SEPARATELY.
- EXISTING LIGHT POLE TO BE REMOVED.
- EXISTING LIGHT POLE TO REMAIN.
- PROPOSED OPEN TRENCH 2" CONDUIT W/CONDUCTORS, ONE RUN.
- EXISTING LIGHTING CONDUIT TO REMAIN, CONDUCTORS TO BE REPLACED.

STA. 126+34  
POLE NO. 1 CKT. A

630-2-11	14 LF
635-2-11	1 EA
715-1-12	105 LF
715-61-252	1 EA
715-500-1	1 EA

STA. 127+25  
POLE NO. 3 CKT. A

630-2-11	14 LF
635-2-11	1 EA
715-1-12	114 LF
715-61-252	1 EA
715-500-1	1 EA

SEE NOTE 1

715-69-000	1 EA
635-2-11	1 EA
715-1-13	864 LF

STA. 127+65  
POLE NO. 4 CKT. A

630-2-11	23 LF
635-2-11	1 EA
715-1-12	117 LF
715-61-252	1 EA
715-500-1	1 EA

630-2-11	5 LF
635-2-11	1 EA
715-1-12	87 LF
715-65-266	1 EA
715-500-1	1 EA

STA. 127+05  
POLE NO. 2 CKT. A

**NOTES:**

1. PULL EXISTING #4 CONDUCTORS (CKT. B) TO NEAREST EXISTING TO REMAIN PULLBOX/HANDHOLE AND REPLACE AS NECESSARY TO PRESERVE EXISTING CIRCUITS. LOAD CENTER 6 LOCATED APPROX. AT X:438431.90, Y:1138578.65. TRIM PROPOSED CONCRETE APRON AROUND PROPOSED PULL BOX TO FIT WITHIN EXISTING SIDEWALK LIMITS.
2. LUMINAIRES TO BE EQUIPPED W/A 7 PIN PHOTOCCELL RECEPTACLE.

**LIGHTING DATA TABLE SR 684**

POLE NO.	STATION	COORDINATES	POLE SETBACK	OWNER/ MAINTAINING AGENCY	MOUNTING HEIGHT	ARM DIST.	NO. OF LUM.	LUM. TYPE	TILT	MAKE/MODEL	PAY ITEM
1	126+34 @ SURVEY SR 684	X:440849.10,Y:1137672.43	54' LT	POLK COUNTY	35'	15'	1	ARM MOUNTED	0°	ATB0 P305 MVOLT R3 4K P7	715-61-221
2	127+05 @ SURVEY SR 684	X:440909.15,Y:1137553.36	49' RT	POLK COUNTY	35'	16'	1	ARM MOUNTED	0°	ATB0 P305 MVOLT R4 4K P7	715-65-266
3	127+25 @ SURVEY SR 684	X:440936.30,Y:1137660.06	59' LT	POLK COUNTY	35'	15'	1	ARM MOUNTED	0°	ATB0 P305 MVOLT R4 4K P7	715-61-221
4	127+65 @ SURVEY SR 684	X:440974.44,Y:1137642.93	44' LT	POLK COUNTY	35'	15'	1	ARM MOUNTED	0°	ATB0 P305 MVOLT R4 4K P7	715-61-221

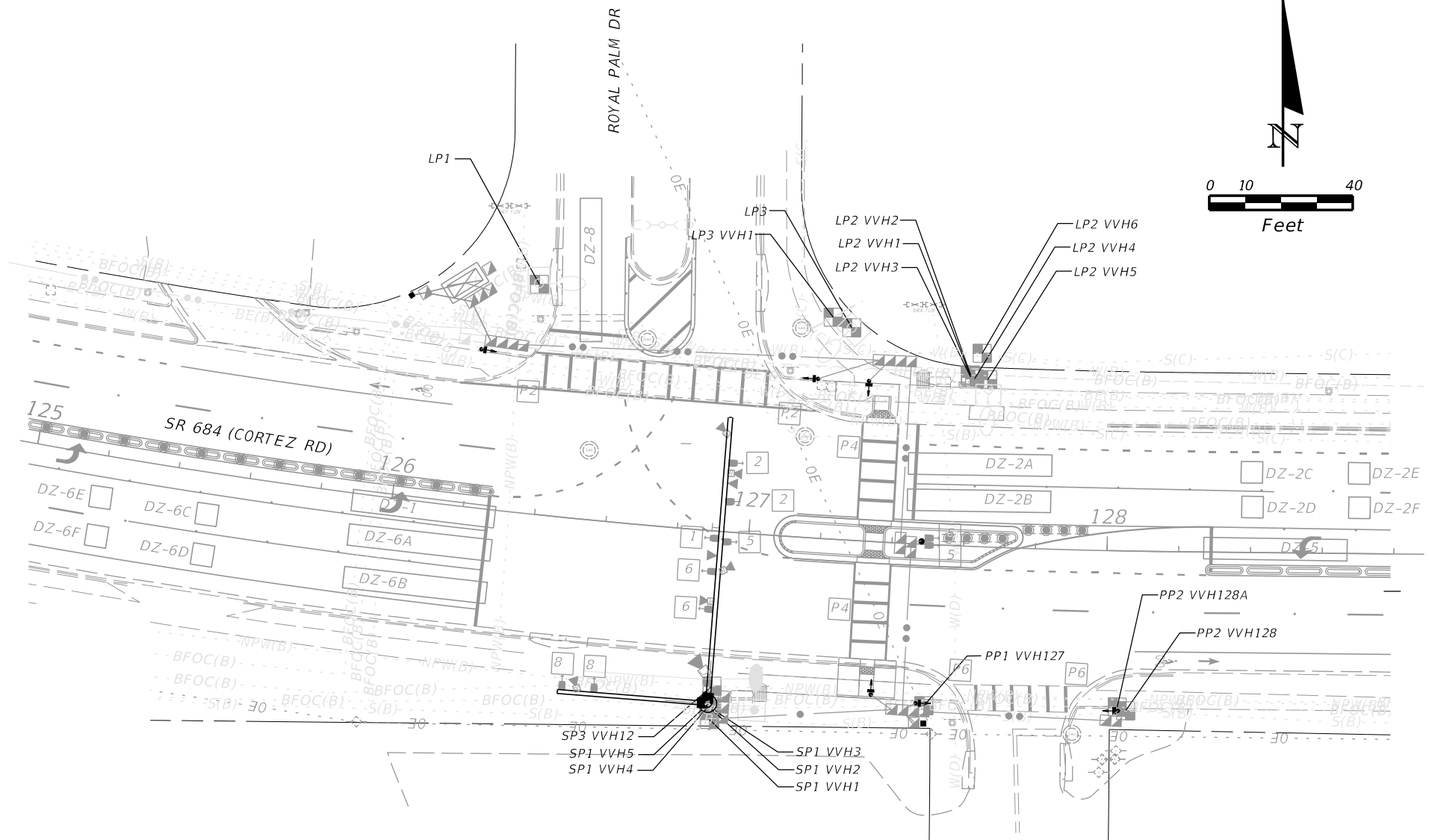
REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	BHARATHI CHIGURUPATI, P.E. LICENSE NUMBER: P.E. 84860 DRMP, INC. 15310 AMBERLY DRIVE, SUITE 310 TAMPA, FL 33647		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 684	MANATEE	454032-1-52-01	10

**LIGHTING PLAN**

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SUMMARY OF VERIFIED UTILITIES

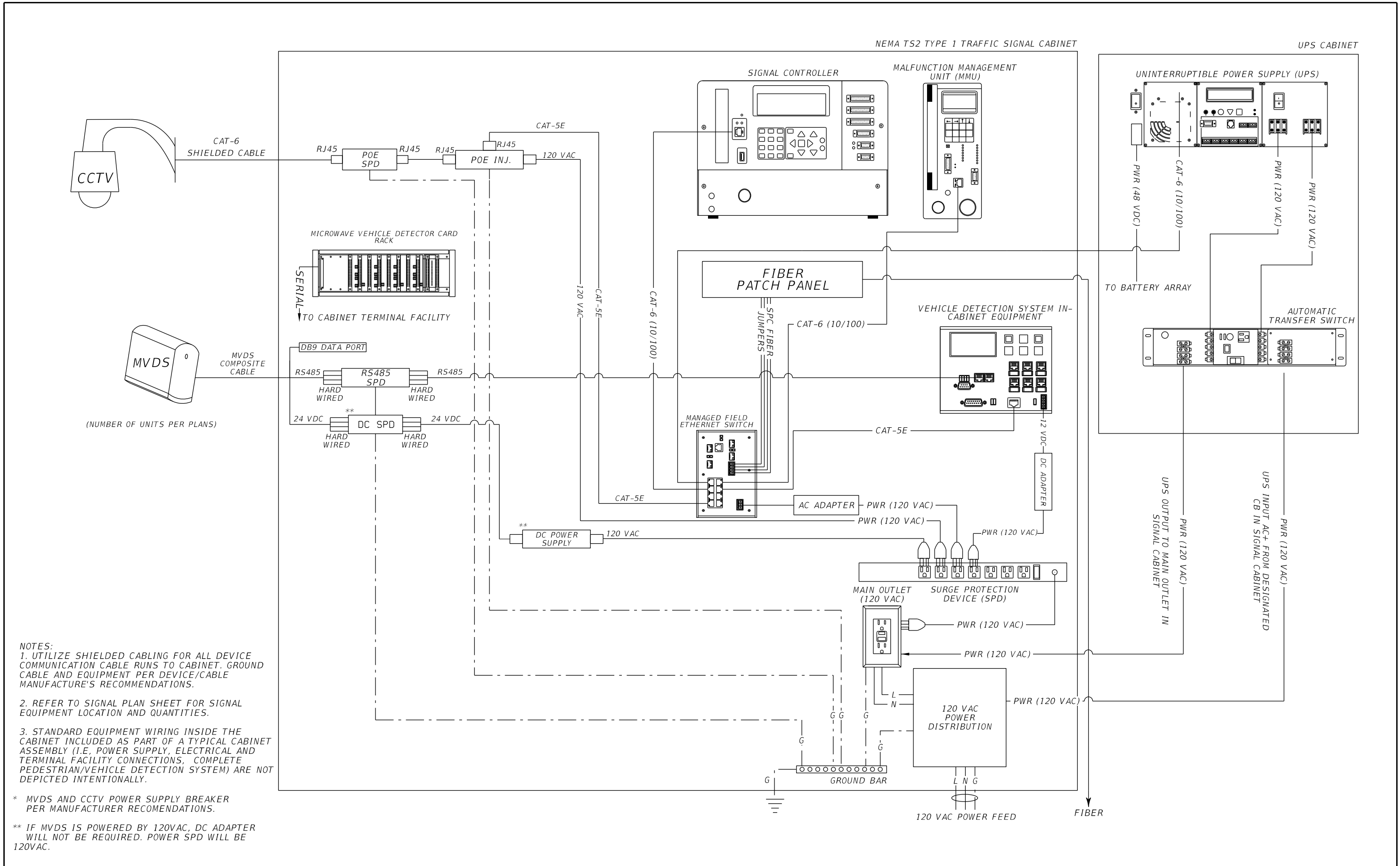
Vvh #	UTILITY DESCRIPTION (Owner, type)	SIZE	MATERIALS	E AND/OR C			EXISTING GROUND ELEVATION	TOP ELEVATION	COMMENTS
				STATION	OFFSET	LT/RT			
SP1 VVH1	MANATEE COUNTY, SANITARY SEWER FORCE MAIN	20"	PVC	126+93.04	52.52	RT	5.28	2.18	20" FM PVC C3.10 - TO REMAIN
SP1 VVH2	UNK, BURIED FIBER OPTIC	4"	PVC	126+93.24	49.58	RT	5.21	2.06	4" PVC FOC C3.15 - TO BE RELOCATED
SP1 VVH3	UNK, BURIED TELEPHONE	1"	DBC	126+93.38	49.43	RT	5.02	1.77	1" DBC FOC C3.25 - TO BE RELOCATED
SP1 VVH4	UNK, BURIED FIBER OPTIC	6"	PVC	126+92.49	48.83	RT	4.95	1.12	6" PVC C3.83 - TO BE RELOCATED
SP1 VVH5	UNK, BURIED FIBER OPTIC	4"	PVC	126+93.18	47.20	RT	5.26	5.26	4 ~ 4" PVC FOC DUCT BANK C3.70 - TO BE RELOCATED
LP1	EXPLORATORY HOLE, NO UTILITY FOUND	N/A	N/A	126+34.38	64.05	LT	N/A	N/A	IRRIGATION LINES FOUND, 4.5'x4.5' CROSS TRENCH
LP2	EXPLORATORY HOLE, UTILITY FOUND (SEE VVH1-6)								MOVED 3.8'N, 4.5'x4.5' CROSS TRENCH
LP2 VVH1	UNK, BURIED TELEPHONE	1"	DBC	127+59.86	47.60	LT	5.44	1.42	1" DBC C4.02 - TO REMAIN
LP2 VVH2	UNK, BURIED FIBER OPTIC	4"	PVC	127+59.91	47.81	LT	5.47	1.67	4" PVC FOC C3.80 - TO REMAIN
LP2 VVH3	UNKNOWN	UNK	UNK	127+59.98	47.24	LT	5.40	0.00	UNABLE TO EXPOSE C5.40
LP2 VVH4	UNKNOWN	UNK	UNK	127+61.11	46.76	LT	5.35	-0.08	UNABLE TO EXPOSE C5.43
LP2 VVH5	UNKNOWN	UNK	UNK	127+64.88	46.71	LT	5.53	-1.17	UNABLE TO EXPOSE C6.70
LP2 VVH6	MANATEE COUNTY, WATER MAIN	8"	DIP	127+62.99	53.96	LT	5.87	0.42	DIP WM UNABLE TO EXPOSE C5.45 - TO REMAIN
LP3	EXPLORATORY HOLE, NO UTILITY FOUND AFTER MOVING LOCATION	N/A	N/A	127+25.16	59.25	LT	5.27	N/A	MOVED 4.5'E, 4.8'S ALL CLEAR
LP3 VVH1	MANATEE COUNTY, WATER SERVICE LINE	1"	STEEL	127+19.67	61.88	LT	5.11	3.71	1" STEEL WATER SERVICE C1.40 - TO REMAIN
SP3 VVH12	MANATEE COUNTY, RECLAIMED WATER	30" (RECORDS)	DIP	126+93.06	43.19	RT	5.24	-2.06	30" DIP RCW C7.30 - TO REMAIN
PP1 VVH127	UNK, BURIED FIBER OPTIC	4"	PVC	127+51.01	45.01	RT	5.10	0.94	4 ~ 4" PVC FOC DUCT BANK C4.16
PP2 VVH128	MANATEE COUNTY, FORCE MAIN	20"	PVC	128+06.02	44.58	RT	5.40	1.50	FM 20" PVC C3.90
PP2 VVH128A	UNK, BURIED FIBER OPTIC	UNK	PVC	128+03.72	43.55	RT	5.25	-1.88	FOC UNK PVC C7.13



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				BHARATHI CHIGURUPATI, P.E. LICENSE NUMBER: P.E. 84860 DRMP, INC. 15310 AMBERLY DRIVE, SUITE 310 TAMPA, FL 33647		SR 684	MANATEE	454032-1-52-01	11

UTILITY LOCATION PLAN

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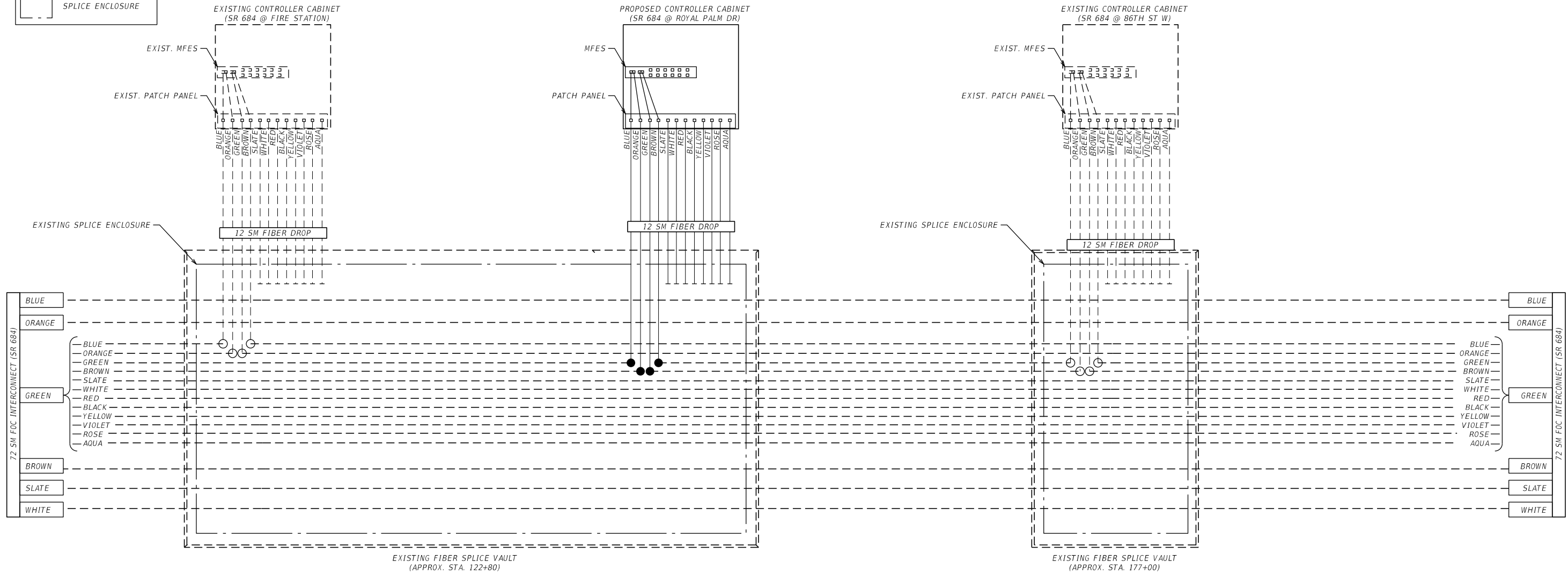
NOTES:  
 1. UTILIZE SHIELDED CABLING FOR ALL DEVICE COMMUNICATION CABLE RUNS TO CABINET. GROUND CABLE AND EQUIPMENT PER DEVICE/CABLE MANUFACTURE'S RECOMMENDATIONS.  
 2. REFER TO SIGNAL PLAN SHEET FOR SIGNAL EQUIPMENT LOCATION AND QUANTITIES.  
 3. STANDARD EQUIPMENT WIRING INSIDE THE CABINET INCLUDED AS PART OF A TYPICAL CABINET ASSEMBLY (I.E. POWER SUPPLY, ELECTRICAL AND TERMINAL FACILITY CONNECTIONS, COMPLETE PEDESTRIAN/VEHICLE DETECTION SYSTEM) ARE NOT DEPICTED INTENTIONALLY.

\* MVDS AND CCTV POWER SUPPLY BREAKER PER MANUFACTURER RECOMENDATIONS.  
 \*\* IF MVDS IS POWERED BY 120VAC, DC ADAPTER WILL NOT BE REQUIRED. POWER SPD WILL BE 120VAC.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	BHARATHI CHIGURUPATI, P.E. LICENSE NUMBER: P.E. 84860 DRMP, INC. 15310 AMBERLY DRIVE, SUITE 310 TAMPA, FL 33647		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 684	MANATEE	454032-1-52-01	

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

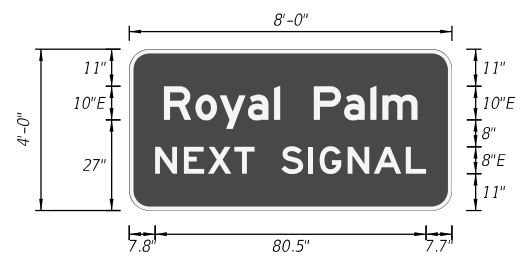
LEGEND	
┆	UNTERMINATED FIBER
●	PROPOSED SPLICE
○	EXISTING SPLICE
—	PROPOSED FIBER
- - -	EXISTING FIBER
□	SPLICE ENCLOSURE



REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SPLICING DETAIL	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	BHARATHI CHIGURUPATI, P.E. LICENSE NUMBER: P.E. 84860 DRMP, INC. 15310 AMBERLY DRIVE, SUITE 310 TAMPA, FL 33647		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 684	MANATEE	454032-1-52-01		13

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

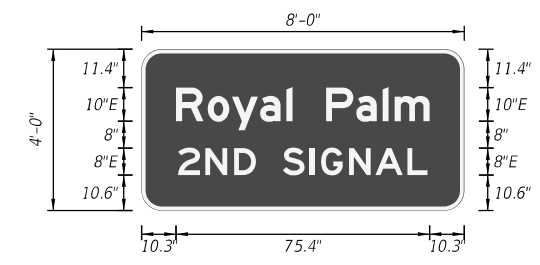
SIGN NAME	Sign A	QTY	1	SIGN NUMBER		STATION(S)	
PANEL	BORDER						
WIDTH	8'-0"	WIDTH	1.25"				
HEIGHT	4'-0"	RADII	6"				
LEGEND	White	COLOR	White				
COLOR	Green						
SYMBOL(S)	ANGLE	X	Y	WID	HT		
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH			



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY		R	o	y	a	l		P	a	l	m	L								
SPACE	10.3	9.4	7.2	8.4	7.8	1.8		10	9	7.8	3.6	10.4	10.3	75.4						
COPY		N	E	X	T			S	I	G	N	A	L	L						
SPACE	7.8	8.6	7.1	7.8	6	8		8.1	3.3	8.3	7.8	9.5	6	7.7	80.5					
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				

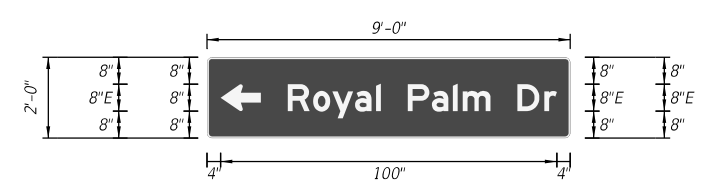
SIGN NAME	Sign B	QTY	1	SIGN NUMBER		STATION(S)	
PANEL	BORDER						
WIDTH	8'-0"	WIDTH	1.25"				
HEIGHT	4'-0"	RADII	6"				
LEGEND	White	COLOR	White				
COLOR	Green						
SYMBOL(S)	ANGLE	X	Y	WID	HT		
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH			



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY		R	o	y	a	l		P	a	l	m	L								
SPACE	10.3	9.4	7.2	8.4	7.8	1.8		10	9	7.8	3.6	10.4	10.3	75.4						
COPY		2	N	D				S	I	G	N	A	L	L						
SPACE	10.9	8.1	8.6	6.5	8	8.1	3.3	8.3	7.8	9.5	6	10.9	74.2							
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				

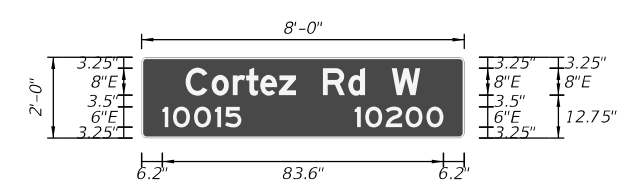
SIGN NAME	Sign C	QTY	1	SIGN NUMBER		STATION(S)	
PANEL	BORDER					none	
WIDTH	9'-0"	WIDTH	0.5"				
HEIGHT	2'-0"	RADII	1.5"				
LEGEND	White	COLOR	White				
COLOR	Green						
SYMBOL(S)	ANGLE	X	Y	WID	HT		
ARUP	90	4	8	8	12		
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH			



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY		R	o	y	a	l		P	a	l	m	D	r	L						
SPACE	24.1	7.5	5.8	6.7	6.2	1.4		8	7.2	6.2	2.9	8.3	8	3.7	4	79.9				
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				

SIGN NAME	Sign D	QTY	1	SIGN NUMBER		STATION(S)	
PANEL	BORDER					none	
WIDTH	8'-0"	WIDTH	0.5"				
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

COPY		C	o	r	t	e	z		R	d	W	L								
SPACE	13.1	7.8	6.3	3.9	4.2	5.5	5.1	8	7.5	5	8	8.5	13.1	69.8						
COPY		1	0	0	1	5			L											
SPACE	6.2	3.2	6.2	6.2	3	4.9	66.3	23.5												
COPY		1	0	2	0	0			L											
SPACE	63.4	3.2	6.1	5.9	6.2	5	6.2	26.4												
COPY																				
SPACE																				
COPY																				
SPACE																				
COPY																				
SPACE																				

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

ENGINEER OF RECORD  
 BHARATHI CHIGURUPATI, P.E.  
 LICENSE NUMBER: P.E. 84860  
 DRMP, INC.  
 15310 AMBERLY DRIVE, SUITE 310  
 TAMPA, FL 33647

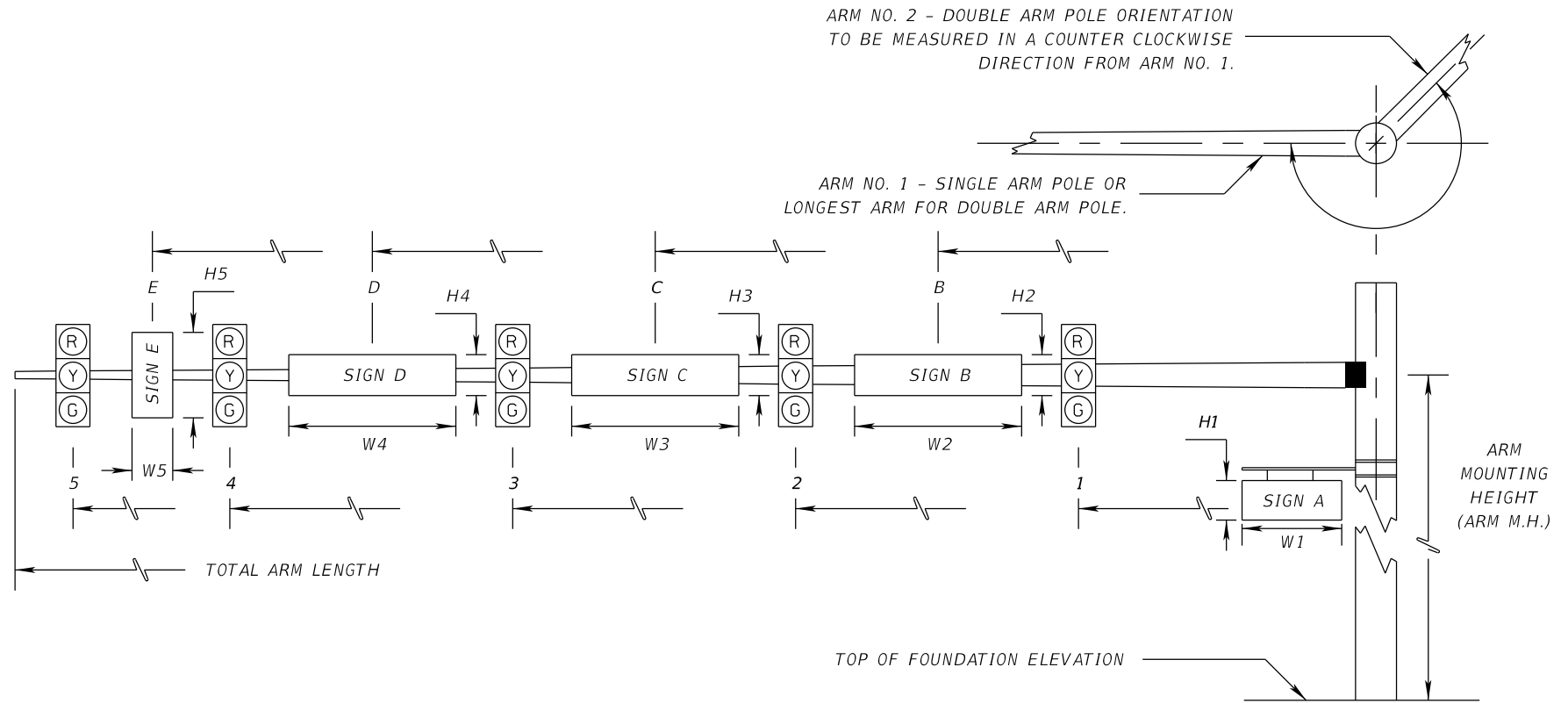
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	454032-1-52-01

**GUIDE SIGN WORKSHEET**

SHEET NO. 14

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\* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

SIGNAL DATA

ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUND. ELEVATION	RDWY ARM NO.	CROWN ELEV.	LUMI-NAIRE Y/N	TERM. COMP. Y/N	SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE														TOTAL ARM LENGTH	ARM M.H.	ANGLE BETWEEN DUAL ARMS 90/270															
											1	*	2	*	3	*	4	*	5	*	6	*	7	*				8	*	9	*	10	*	11	*	12	*	13	*	14	*	
1	8	126+92.22	5.69	1	5.31	Y	Y	V	Y	N	5.6'	CT	24.2'	3	26.4'	VD	34.7'	3	34.7'	VD	39.2'	EVD	43.2'	3	44'	4	54.5'	3	59.6'	EVD	62.5'	VD	65.2'	3	72.8'	VD			78'	19.5'	90	
				2	5.15	N	Y	V	Y	N	29.8'	3	34.4'	VD	38.8'	3																								40'		

SIGN DATA

ID NO.	RDWY ARM NO.	A	H1	W1	B	H1	W1
1	1	0'	2'	9'	47.0'	2.5'	2.5'
	2	0'	2'	8'			

FUTURE LOADING

SIGNAL DATA

ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUND. ELEVATION	RDWY ARM NO.	CROWN ELEV.	LUMI-NAIRE Y/N	TERM. COMP. Y/N	SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE														TOTAL ARM LENGTH	ARM M.H.	ANGLE BETWEEN DUAL ARMS 90/270																
											1	*	2	*	3	*	4	*	5	*	6	*	7	*				8	*	9	*	10	*	11	*	12	*	13	*	14	*		
1	8	126+92.22	5.69	1	5.31	Y	Y	V	Y	N	5.6'	CT	24.2'	3	26.4'	VD	34.7'	3	34.7'	VD	39.2'	EVD	43.2'	3	44'	4	54.5'	3	59.6'	EVD	62.5'	VD	65.2'	3	72.8'	VD			78'	19.5'	90		
				2	5.15	N	Y	V	Y	N	22.8'	4	30.8'	3	34.4'	VD	38.8'	3																							40'		-----

SIGN DATA

ID NO.	RDWY ARM NO.	A	H1	W1	B	H1	W1	C	H1	W1	D	H1	W1
1	1	0'	2'	9'	47.0'	2.5'	2.5'						
	2	0'	2'	8'	25.0'	2.5'	2.5'						

VD = VEHICLE DETECTION, CT = CCTV, EVD = EMERGENCY VEHICLE DETECTION

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD

BHARATHI CHIGURUPATI, P.E.  
 LICENSE NUMBER: P.E. 84860  
 DRMP, INC.  
 15310 AMBERLY DRIVE, SUITE 310  
 TAMPA, FL 33647

STATE OF FLORIDA  
 DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 684	MANATEE	454032-1-52-01

STANDARD MAST ARM  
 TABULATION

SHEET NO.

16



**SPECIAL MAST ARM ASSEMBLIES DATA TABLE**

Table Date 01-01-12

NUMBER OF LOCATIONS	STRUCTURE NUMBER	FIRST ARM				FIRST ARM EXTENSION				SECOND ARM				SECOND ARM EXTENSION				POLE							
		FA(ft)	FB(in)	FC(in)	FD(in)	FE(ft)	FF(in)	FG(in)	FH(in)	SA(ft)	SB(in)	SC(in)	SD(in)	SE(ft)	SF(in)	SG(in)	SH(in)	UA(ft)	UB(ft)	UC(in)	UD(in)	UE(in)	UF(deg)	UG(ft)	
1	1	39.0	11.54	17.00	0.25	42.0	16.12	22.00	0.375	40.0	7.40	13.00	0.25	-	-	-	-	22.5	19.5	20.84	24.0	0.500	90	-	

**SPECIAL MAST ARM ASSEMBLIES DATA TABLE (CONT.)**

Table Date 01-01-12

STRUCTURE NUMBER	FIRST ARM CONNECTION (in)											SECOND ARM CONNECTION (in)												
	#Bolts	HT	FJ	FK	FL	FN	FO	FP	FR	FS	FT	#Bolts	HT	SJ	SK	SL	SN	SO	SP	SR	SS	ST		
1	6	30	36	3.00	0.75	0.625	23.00	1.50	2.5	12.0	0.625	6	30	36	3.00	0.75	0.625	23.00	1.50	2.5	12.0	0.625		

**NOTES**

- WORK WITH INDEX 649-031, MODIFIED AS FOLLOWS: POLE, MAST ARM AND BACKING RING, MATERIALS SHALL BE ASTM A1011 GRADE 55, 60 OR 65 FOR THICKNESSES OF LESS THAN 3/16" AND ASTM A572 GRADE 55, 60 OR 65 FOR THICKNESSES OF GREATER THAN OR EQUAL TO 3/16".
- DESIGN WIND SPEED = 150 MPH.

**FOUNDATION NOTES**

- DESIGN BASED ON BORINGS TAKEN APRIL 2024. SIGN AND SEALED BY GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.
- ASSUMPTIONS AND VALUES USED IN DESIGN:  
 STRUCTURE NO. 1  
 SOIL TYPE: SAND  
 SOIL LAYER THICKNESS = 19 FT.  
 SOIL FRICTION ANGLE = 30 DEG.  
 SOIL WEIGHT = 50 PCF  
 N-BLOWCOUNT = 14  
 DESIGN WATER TABLE IS AT GROUND SURFACE

**SPECIAL MAST ARM ASSEMBLIES DATA TABLE (CONT.)**

Table Date 07-01-15

STRUCTURE NUMBER	POLE BASE CONNECTION (in)					SHAFT AND REINF.								LUMINAIRE AND LUMINAIRE CONNECTION											
	#Bolts	BA	BB	BC	BF	DA(ft)	DB(ft)	RA	RB	RC	RD(in)	RE	RF(in)	LA(ft)	LB(ft)	LC(in)	LD(in)	LE	LF(ft)	LG(in)	LH(in)	LJ(in)	LK(in)	LL(deg)	
1	8	40.0	2.5	2.0	40	19.0	5.0	11	18	10	6	10	9	-	-	-	-	-	-	-	-	-	-	-	

10/1/2024 3:09:43 PM sUSER\$ c:\pw\_working\drmp01\dms2854\MastArmTab01.dgn

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<p align="center"><b>REVISIONS</b></p> <table border="1"> <thead> <tr> <th>DATE</th> <th>DESCRIPTION</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>				DATE	DESCRIPTION	DATE	DESCRIPTION					<p align="center"><b>ENGINEER OF RECORD</b></p> JOCELYN M. HAISCH-LINN, P.E. License Number: P.E. 60103 DRMP, INC. 941 LAKE BALDWIN LANE ORLANDO, FL 32814			<p align="center"><b>STATE OF FLORIDA</b> <b>DEPARTMENT OF TRANSPORTATION</b></p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> </thead> <tbody> <tr> <td align="center">SR 684</td> <td align="center">MANATEE</td> <td align="center">454032-1-52-01</td> </tr> </tbody> </table>			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 684	MANATEE	454032-1-52-01	<p align="center"><b>SPECIAL MAST ARM</b> <b>ASSEMBLIES DATA TABLE</b></p>		<p align="center">SHEET NO.  17</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																							
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																								
SR 684	MANATEE	454032-1-52-01																								

**TRAFFIC CONTROL NOTES:**

**1. LANE CLOSURE RESTRICTIONS ARE AS FOLLOWS:**

NO LANE CLOSURES PERMITTED FROM 6:00 AM TO 8:00 PM.

NO LANE OR SIDEWALK CLOSURES ARE PERMITTED DURING INACTIVE WORK ZONES.

**2. ALL OVERHEAD WORK ASSOCIATED WITH SIGNALIZATION IMPROVEMENTS IS ONLY PERMITTED FROM 8:00 PM TO 6:00 AM.**

**3. THE CURRENT POSTED SPEED LIMITS SHALL BE MAINTAINED. THE POSTED SPEED OF SR 684 IS 45 MPH.**

**4. NOTIFY MANATEE COUNTY AREA TRANSIT (MCAT) FOURTEEN (14) BUSINESS DAYS PRIOR TO PERFORMING ANY WORK IN THE VICINITY OF AN EXISTING TRANSIT STOP OR ROUTE (STEVE ROBERTS, 941-747-8621 x7639). MAINTAIN ADA-COMPLIANT ACCESS TO ALL EXISTING TRANSIT STOPS DURING CONSTRUCTION. COORDINATE TRANSIT STOP ADJUSTMENTS OR ALTERNATIVE LOCATIONS WITH MCAT PRIOR TO PERFORMING WORK.**

**5. PLACE PORTABLE CHANGEABLE MESSAGE SIGNS AS SHOWN BELOW.**



PCMS # 1 & 2      PCMS # 3 & 4      PCMS # 5 & 6      PCMS # 7 & 8      PCMS # 9 & 10

**NOTE:**

PCMS # 1 & 2 TO BE USED 14 DAYS PRIOR TO BEGINNING OF CONSTRUCTION AT EACH END OF THE PROJECT ON SR 684.

PCMS # 3 & 4 TO BE USED DURING CONSTRUCTION WHEN THERE IS NOT A LANE CLOSURE ON SR 684.

PCMS # 5 & 6 TO BE USED PRIOR TO LANE CLOSURE ON SR 684.

PCMS # 7 & 8 TO BE USED DURING LANE CLOSURE ON SR 684.

PCMS # 9 & 10 TO BE USED 14 DAYS PRIOR AND 7 DAYS AFTER PLACING SIGNAL INTO OPERATION.

**PHASE I**

**1. INSTALL ADVANCED WARNING SIGNS FOR DURATION OF PROJECT.**

**2. INSTALL ALL EROSION CONTROL ITEMS.**

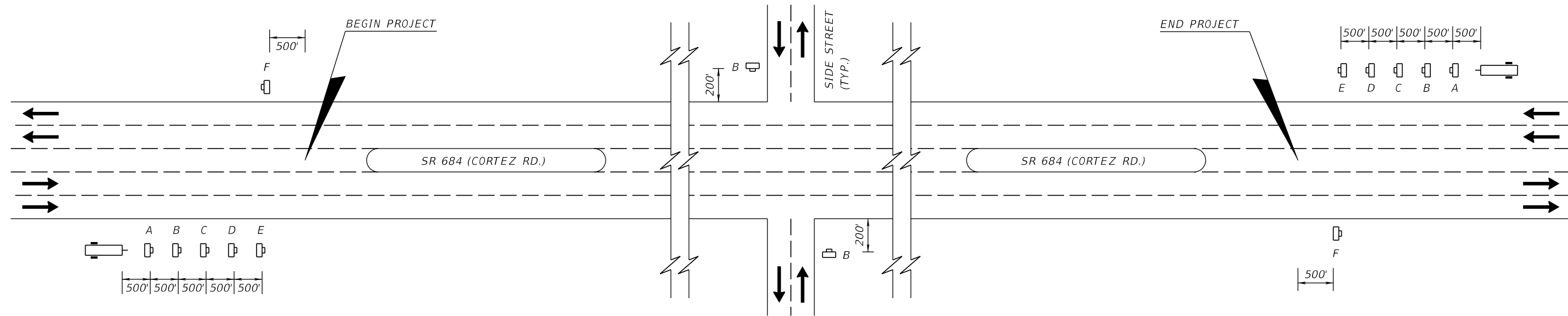
**3. CONSTRUCT MEDIAN, SIDEWALK, LIGHTING, AND SIGNALIZATION IMPROVEMENTS FOR EASTBOUND SR 684 UTILIZING THE PEDESTRIAN DETOUR PLAN AND STANDARD PLAN INDEXES 102-613, 102-615, 102-660, AND 102-661.**

**4. CONSTRUCT SIDEWALK, LIGHTING, AND SIGNALIZATION IMPROVEMENTS FOR WESTBOUND SR 684 UTILIZING THE PEDESTRIAN DETOUR PLAN AND STANDARD PLAN INDEXES 102-613, 102-615, 102-660, AND 102-661.**

**5. MILL AND RESURFACE UTILIZING STANDARD PLAN INDEXES 102-613, 102-615, AND 102-661.**

**6. UTILIZE STANDARD PLAN INDEX 102-613 AND 102-615 TO INSTALL SIGNALS AND MAST ARMS WITH TRAFFIC CONTROL OFFICER.**

**7. CONSTRUCT SIGNING AND PAVEMENT MARKING IMPROVEMENTS UTILIZING STANDARD PLANS INDEXES 102-613, 102-615, 102-660, AND 102-661.**



**ADVANCED WARNING SIGNAGE  
N.T.S.**

**LEGEND**

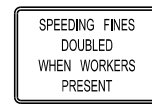
- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- WORK ZONE SIGN
- PORTABLE CHANGEABLE (VARIABLE) MESSAGE SIGN



A



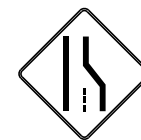
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B



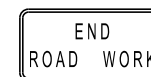
MOT-14-06  
C



W20-05LM OR W20-05RM  
D



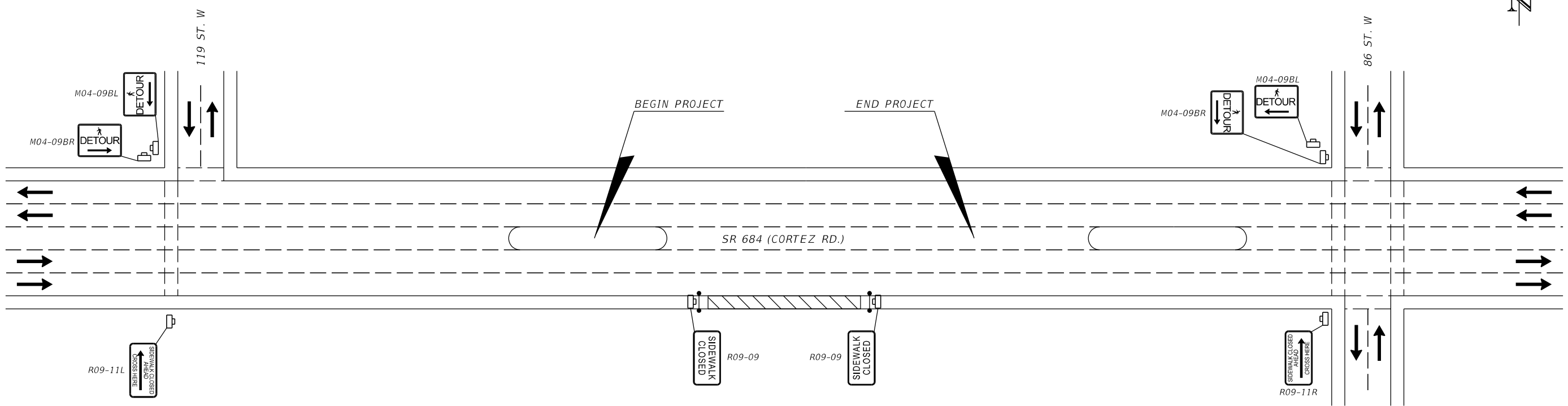
W04-2  
E



G20-2  
F

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TEMPORARY TRAFFIC CONTROL PLAN (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	CODY BAYER, P.E. LICENSE NUMBER: P.E. 90812 DRMP, INC. 941 LAKE BALDWIN LANE ORLANDO, FL 32814		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						SR 684	MANATEE	454032-1-52-01		18

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PEDESTRIAN DETOUR PLAN  
N.T.S.

LEGEND

- LANE IDENTIFICATION AND DIRECTION OF TRAFFIC
- WORK ZONE
- WORK ZONE SIGN
- PEDESTRIAN LONGITUDINAL CHANNELIZING DEVICE (LCD)

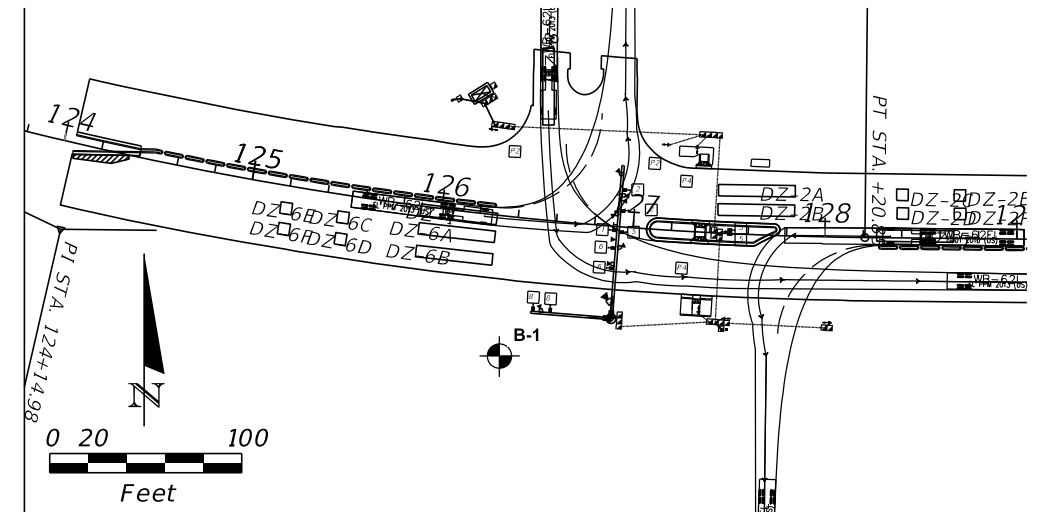
NOTES:

1. PEDESTRIAN DETOUR PLAN SHOWN IS FOR EASTBOUND SR 684 SIDEWALK CLOSURE.  
PEDESTRIAN DETOUR PLAN WILL BE MIRRORED FOR WESTBOUND SR 684 SIDEWALK CLOSURE.
2. PROVIDE 1 ADDITIONAL M04-09BL OR M04-09BR SIGN AT EACH INTERSECTING STREET/SIDEWALK WITHIN DETOUR LIMITS.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>TEMPORARY TRAFFIC CONTROL PLAN (2)</b>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	CODY BAYER, P.E. LICENSE NUMBER: P.E. 90812 DRMP, INC. 941 LAKE BALDWIN LANE ORLANDO, FL 32814		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		19
								SR 684		MANATEE

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B-1  
 STA. 126+98, 71' RIGHT  
 LAT: N27.46157°  
 LONG: W82.66384°  
 HAMMER TYPE: AUTOMATIC  
 RIG TYPE: CME 45  
 DRILLER: D. ROBINSON  
 DATE DRILLED: 4-26-24



**LEGEND**

- N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT
  - HA HAND AUGERED FOR UTILITY CLEARANCE
  - ▽ 1.5 ESTIMATED SEASONAL HIGH GROUNDWATER DEPTH (FT.)
  - ▼ 3.7 ENCOUNTERED GROUNDWATER DEPTH (FT.) 24 HRS. AFTER DATE DRILLED
  - BT BORING TERMINATED AT DEPTH INDICATED
  - 200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE
  - MC= PERCENT NATURAL MOISTURE CONTENT
  - 200= PERCENT ORGANIC CONTENT
- SAND
- 
- SAND AND SILT

**GENERAL NOTES**

SUBSURFACE CONDITIONS SHOWN ON THE BORING REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATION. ACTUAL CONDITIONS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORING ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

THE STANDARD PENETRATION TEST BORING WAS PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORING AT THE TEST DEPTHS IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

THE BORING LOCATION WAS ESTABLISHED IN THE FIELD USING PROJECT PLANS AND A SUB-METER ACCURACY GPS UNIT (TRIMBLE TDC600). THE BORING LOCATION REFERENCES THE SR 684 CENTERLINE.

ACCORDING TO THE FDEP SEPTEMBER 2019 POTENTIOMETRIC CONTOURS MAP, THE POTENTIOMETRIC SURFACE OF THE FLORIDAN AQUIFER IN THE PROJECT VICINITY IS APPROXIMATELY +19 FEET NAVD88. THE CONTRACTOR SHALL BE PREPARED TO HANDLE ARTESIAN HEAD LEVELS UP TO +19 FEET NAVD88. BASED ON THE USGS BRADENTON BEACH QUADRANGLE MAP, THE EXISTING GROUND SURFACE ELEVATION IS ABOUT +5 FT NGVD.

**SPLIT SPOON SAMPLER:**  
 INSIDE DIAMETER: 1.375 IN. AVERAGE HAMMER DROP: 30 IN.  
 OUTSIDE DIAMETER: 2.0 IN. HAMMER WEIGHT: 140 LBS.

AUTOMATIC HAMMER			
GRANULAR SOILS: SANDS		NON-GRANULAR SOILS: SILTS, CLAYS, MUCK	
N VALUE (BLOWS/FT)	RELATIVE DENSITY	N VALUE (BLOWS/FT)	CONSISTENCY
0-3	VERY LOOSE	0-1	VERY SOFT
3-8	LOOSE	1-3	SOFT
8-24	MEDIUM DENSE	3-6	FIRM
24-40	DENSE	6-12	STIFF
OVER 40	VERY DENSE	12-24	VERY STIFF
		OVER 24	HARD

SECTION: 11  
 TOWNSHIP: 35 SOUTH  
 RANGE: 16 EAST

REVISIONS				ENGINEER OF RECORD			STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	REPORT OF CORE BORINGS	SHEET NO.  20
DATE	DESCRIPTION	DATE	DESCRIPTION	DANIEL C. STANFILL, P.E. LICENSE NUMBER: 42763 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 919 LAKE BALDWIN LANE ORLANDO, FL 32814					
				ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
				SR 684	MANATEE	454032-1-52-01			

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