

**INDEX OF SIGNALIZATION PLANS**

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	TABULATION OF QUANTITIES
T-4	GENERAL NOTES AND PAY ITEM NOTES
T-5 - T-14	PLAN SHEET
T-15 - T-19	PEDESTRIAN SIGNAL DETAIL
T-20 - T-24	SIGNAL TIMING PLAN
T-25 - T-26	GUIDE SIGN WORKSHEET
T-27	SUBSURFACE UTILITY DATA DETAILS
T-28	STANDARD MAST ARM ASSEMBLIES DATA TABLE
T-29 - T-33	MAST ARM TABULATION
T-34 - T-35	REPORT OF CORE BORING FOR SIGNAL

**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION**

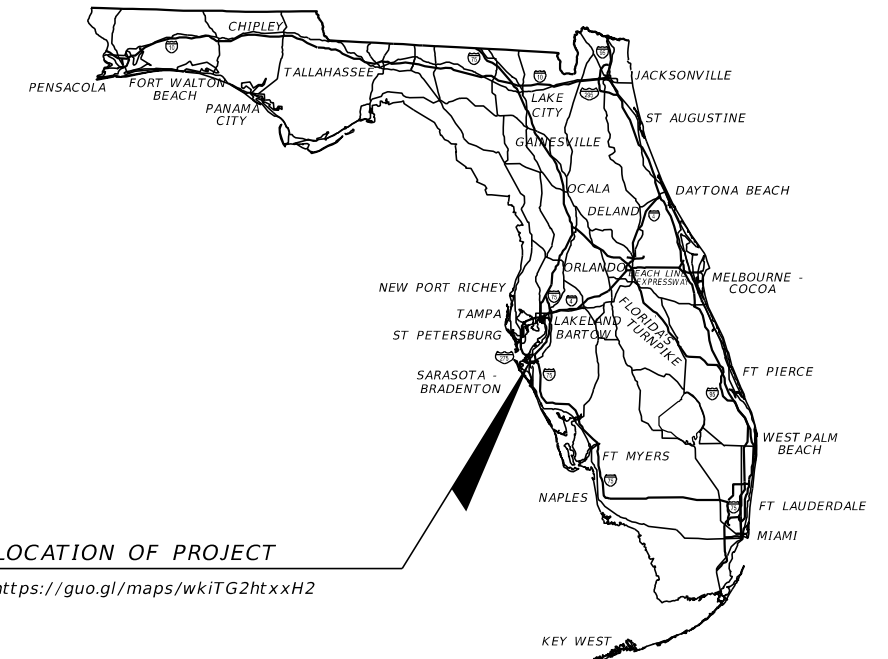
**FINAL AS-BUILT PLANS  
~~CONTRACT PLANS~~**

FINANCIAL PROJECT ID 438062-1-52-01

MANATEE COUNTY (13020)

STATE ROAD NO. 43

**SIGNALIZATION PLANS**



LOCATION OF PROJECT

<https://guo.gl/maps/wkiTG2htxxH2>

**SIGNAL LOCATION 3**

SR 43 (US 301) AT  
PALMETTO VILLAGE /  
WAL-MART  
MP: 0.840  
SIGNAL ID: 418

**SIGNAL LOCATION 2**

SR 43 (US 301) AT  
US 41 NB RAMP  
MP: 0.690  
SIGNAL ID: 417

**SIGNAL LOCATION 1**

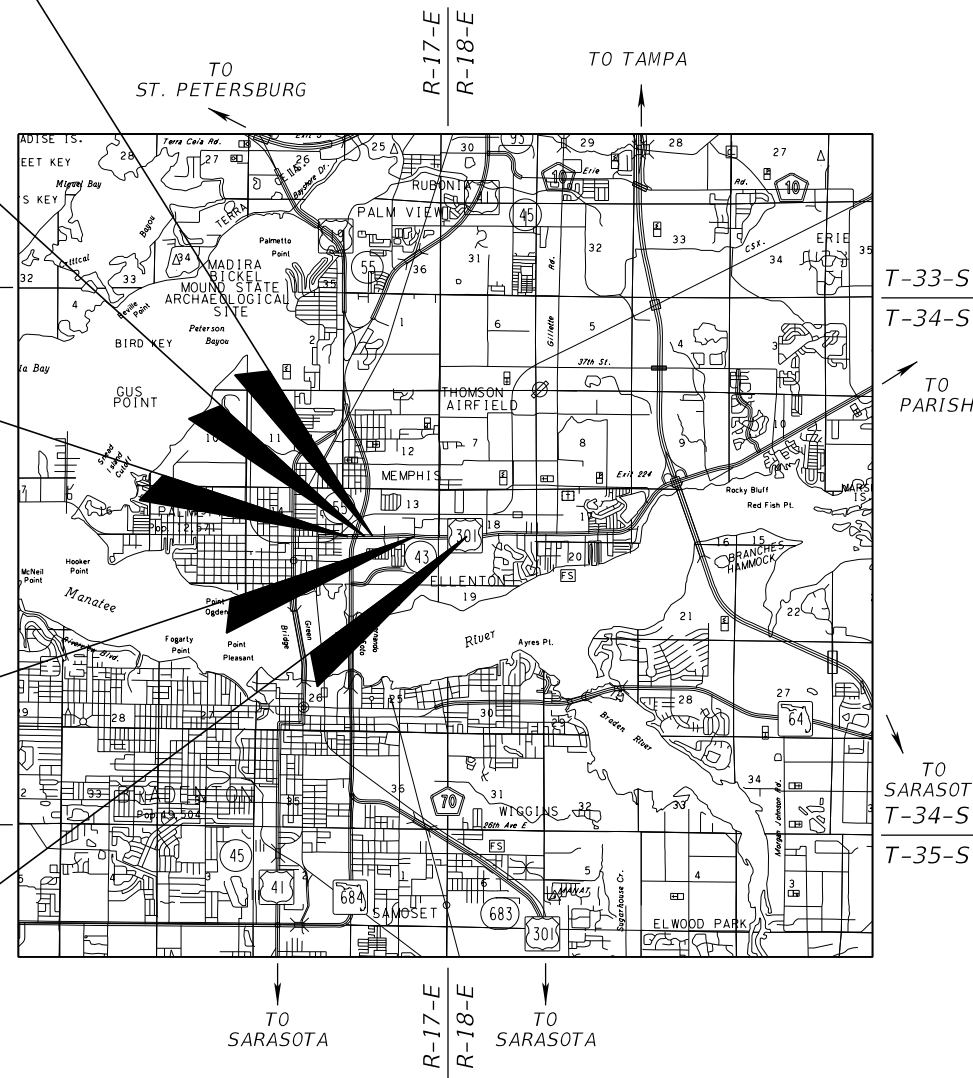
SR 43 (US 301) AT  
US 41 SB RAMP  
MP: 0.573  
SIGNAL ID: 416

**SIGNAL LOCATION 4**

SR 43 (US 301) AT  
HABEN BLVD.  
MP: 1.256  
SIGNAL ID: 419

**SIGNAL LOCATION 5**

SR 43 (US 301) AT  
HARLLEE PACKING / FELD WAY  
MP: 1.910  
SIGNAL ID: 420



**COMPONENT INDEX**

KEY SHEET	1
SIGNATURE SHEET	T-2A

**SUBMITTALS**

CONTRACTOR AS-BUILTS	EDMS #1324772
BORE PATH RPOERTS	EDMS # 1324770

**REVISIONS**

KEY SHEET	T-1
TABULATION OF QUANTITIES	T-3
PLAN SHEET	T-5
PLAN SHEET	T-11

NAME OF CONTRACTOR SUPERIOR ASPHALT, INC.  
 NAME OF ALL CONSULTANTS INVOLVED IN-HOUSE PROJECT  
 DISTRICT SECRETARY L.K. NANDAM, P.E.  
 RESIDENT ENGINEER TRISHA HARTZELL, P.E.  
 PROJECT MANAGER GREGORY FALCONE  
 PROJECT ADMINISTRATOR ROBERT HILL  
 DATE WORK STARTED 09/15/2019  
 DATE OF FINAL ACCEPTANCE 12/14/2020

**SIGNALIZATION PLANS  
ENGINEER OF RECORD:**

EREZ DAYAN, PE, NO.: 62144  
 PATEL, GREENE, AND ASSOCIATES, PLLC  
 280 WEST CANTON AVENUE, SUITE 400  
 WINTER PARK, FLORIDA 32789  
 PHONE: (407) 720-7420  
 CONTRACT NO. C-9P43  
 VENDOR NO. F452209743-001  
 CERTIFICATION OF AUTHORIZATION NO. 29562

**FDOT PROJECT MANAGER:**

FIDEL F. VARGAS, PE

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
EIR79	19	T-1

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

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**STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION**

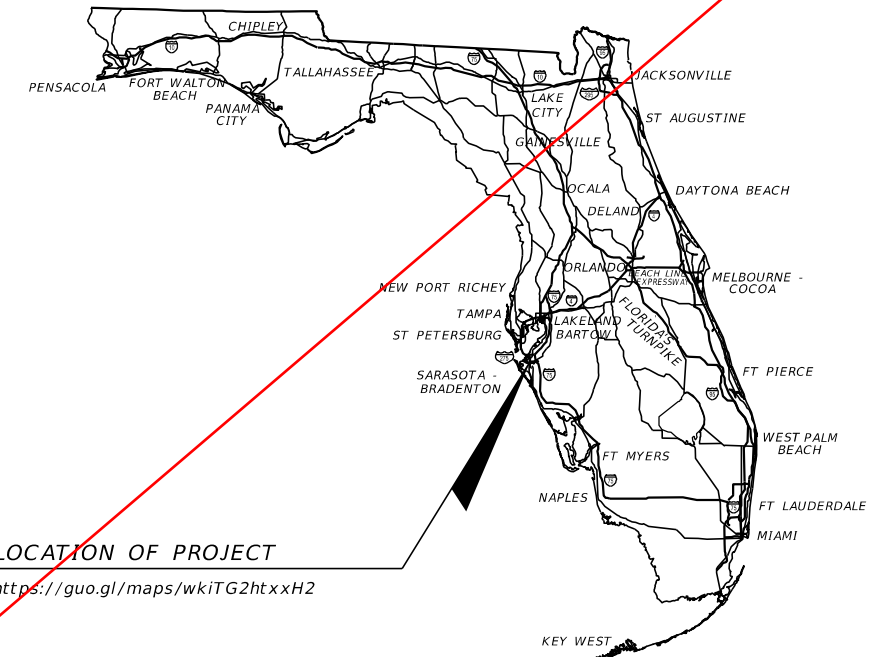
**CONTRACT PLANS**

FINANCIAL PROJECT ID 438062-1-52-01

MANATEE COUNTY (13020)

STATE ROAD NO. 43

**SIGNALIZATION PLANS**



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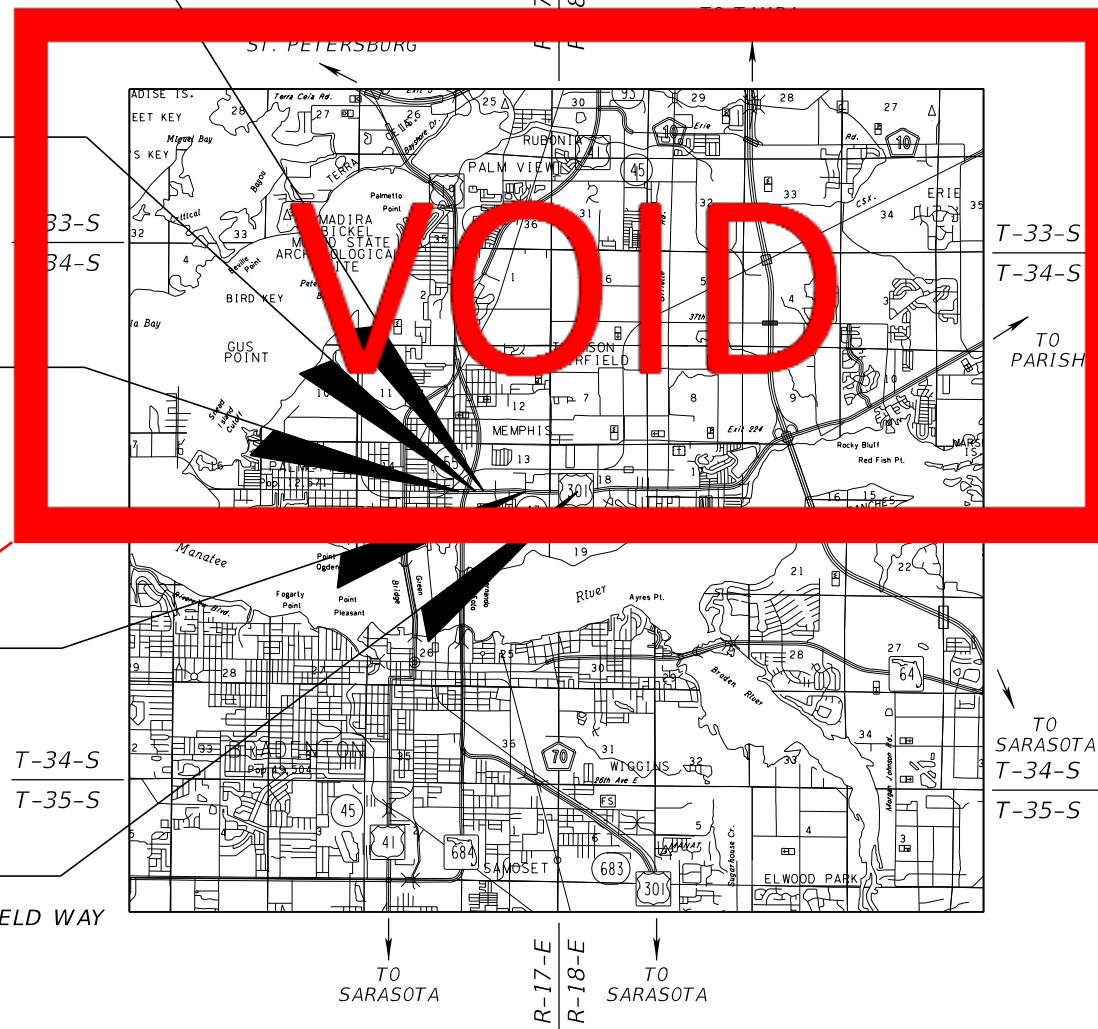
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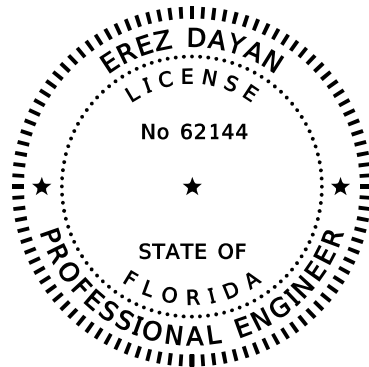
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EIR79	19	T-1

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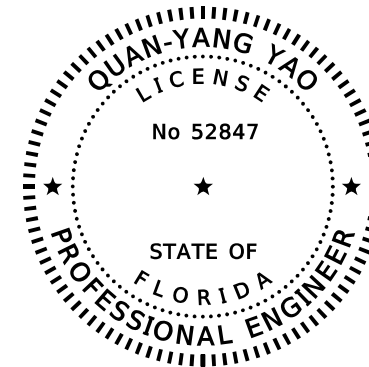
ON THE DATE ADJACENT TO THE SEAL

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PATEL, GREENE AND ASSOCIATES, PLLC  
280 WEST CANTON AVENUE, SUITE 400  
WINTER PARK, FL 32789  
CERTIFICATE OF AUTHORIZATION 29562  
EREZ DAYAN, P.E. NO. 62144

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

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T-27	SUBSURFACE UTILITY DATA DETAILS
T-29 - T-33	MAST ARM TABULATION



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STRUCTURES DESIGN OFFICE, DISTRICT 1  
801 N. BROADWAY  
BARTOW, FL 33830-1249  
QUAN-YANG YAO, P.E. NO. 52847

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

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
T-2	SIGNATURE SHEET
T-28	STANDARD MAST ARM ASSEMBLIES DATA TABLE

REVISIONS				EREZ DAYAN, P.E. P.E. LICENSE NUMBER 62144 PATEL, GREENE & ASSOCIATES, PLLC 280 CANTON AVENUE, SUITE 400 WINTER PARK, FL 32789 CERTIFICATE OF AUTHORIZATION 29562	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 43	MANATEE	438062-1-52-01		

STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO.

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ON THE DATE INDICATED HERE

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Date	Name	Position (Title)	Review Type, If Applicable
<b>RESIDENT OFFICE</b>			
<b>DISTRICT OFFICE</b>			

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	FINAL "AS-BUILT" SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		GRAND TOTAL	
			T-5		T-6		T-7		T-9		T-11		T-13		PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
630-2-11	CONDUIT - SIGNALS (F&I) (OPEN TRENCH)	LF	205		215	223	238		318		251		244									1471	1471	1539
630-2-12	CONDUIT - SIGNALS (F&I) (DIRECTIONAL BORE)	LF	365	330	85	77	300	283		390		305	✓	340	✓							1785	1785	1480
632-7-1	SIGNAL CABLE - NEW OR RECONSTRUCTED INTERSECTION, F&I	PJ	1				1		1		1		1									5	5	✓
632-7-6	SIGNAL CABLE, REMOVE - INTERSECTION	PJ	1				1		1		1		1									5	5	✓
635-2-11	PULL & SPLICE BOX, F&I, 13" X 24" COVER	EA	15		2		11		20		16		14	✓								78	78	✓
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR FROM FP&L	AS			1	✓	1	✓	1	✓	1	✓	1	✓								5	5	✓
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF			480		330		35		125		100									1070	1070	✓
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1	✓			1	✓	1	✓	1	✓	1	✓								5	5	✓
639-3-60	ELECTRICAL SERVICE DISCONNECT, REMOVE-POLE OR CABINET TO REMAIN	EA	1				1		1		1		1									5	5	✓
639-1-620	ELECTRICAL POWER SERVICE, REMOVE UNDERGROUND	EA			1																	1	1	✓
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-11 SERVICE POLE	EA	1	✓	1	✓	2	✓	1	✓	2	✓	1	✓								8	8	✓
641-2-60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL-PEDESTAL/SERVICE POLE	EA	1				2		1		2		1									7	7	✓
646-1-11	ALUMINUM SIGNALS POLE (F&I) PEDESTAL	EA	5				4		8		3		7									27	27	✓
646-1-12	ALUMINUM SIGNALS POLE (F&I) PEDESTRIAN DETECTOR POST	EA	1																			1	1	✓
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA	4				4		7		3		1									19	19	✓
649-21-15	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 70'	EA					1															1	1	✓
649-21-21	STEEL MAST ARM ASSEMBLY, FURNISH & INSTALL, SINGLE ARM 78'	EA							1													1	1	✓
649-26-5	STEEL MAST ARM ASSEMBLY, REMOVE, DEEP FOUNDATION-BOLT ON ATTACHMENT	EA					1		1													2	2	✓
650-1-14	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	6				9		11				8									34	34	✓
650-1-16	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS	1				1		2				1									5	5	✓
650-1-60	TRAFFIC SIGNAL, REMOVE-POLES TO REMAIN	AS	6				6		7				8									27	27	✓
653-1-11	PEDESTRIAN SIGNAL, F&I, LED-COUNT DOWN, 1 WAY	AS	4				4		8		3		6									25	25	✓
653-1-12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	AS	1										1									2	2	✓
660-1-600	LOOP DETECTOR INDUCTIVE, REMOVE-CABINET TO REMAIN	EA	6				6		12		11		10									45	45	✓
660-3-11	VEHICLE DETECTION SYSTEM-MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT	EA	1				1		1		1		1									5	5	✓
660-3-12	VEHICLE DETECTION SYSTEM-MICROWAVE, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA	2				2		2		2		2									10	10	✓
660-4-11	VEHICLE DETECTION SYSTEM-VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA	1				1		1		1		1									5	5	✓
660-4-12	VEHICLE DETECTION SYSTEM-VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA	3				4		4		4		4									19	19	✓
665-1-11	PEDESTRIAN DETECTOR, F&I, STANDARD	EA	6				4		8		3		8									29	29	✓
670-5-400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS	1				1		1		1		1									5	5	✓
685-1-13	UNINTERRUPTIBLE POWER SUPPLY, (F&I), LINE INTERACTIVE WITH CABINET	EA	1				1		1		1		1									5	5	✓
685-1-60	UNINTERRUPTIBLE POWER SUPPLY, REMOVE	EA	1				1		1		1		1									5	5	✓
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	1				1		2													4	4	✓
700-3-601	SIGN PANEL, REMOVE, UP TO 12 SF	EA									2		2									4	4	✓
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA									2		4									6	6	✓

EDMS # 1324770

EDMS # 1325278

REVISIONS				EREZ DAYAN, P.E. P.E. LICENSE NUMBER 62144 PATEL, GREENE & ASSOCIATES, PLLC 280 WEST CANTON AVENUE, SUITE 400 WINTER PARK, FL 32789 CERTIFICATE OF AUTHORIZATION 29562	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  T-3
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 43	MANATEE	438062-1-52-01	

TABULATION OF QUANTITIES

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PAY ITEM NOTES:

632-7-1:  
 COMPLETELY REWIRE INTERSECTIONS SR 43 (10TH ST. W.) AT US 41 SB RAMP, SR 43 (US 301) AT US 41 NB RAMP, SR 43 (US 301) AT PALMETTO VILLAGE/ WAL-MART, SR 43 (US 301) AT HABEN BLVD., AND SR 43 (US 301) AT HARLLEE PACKING / FELD WAY.  
 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.

635-2-11:  
 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 BOXES WITH POLYMER CONCRETE COVERS.

639-1-122:  
 ELECTRICAL SERVICE DISCONNECT IS 100 AMP, COMPRISING OF A SIX (6) CIRCUIT DISCONNECT BOX WITH THREE CIRCUIT BREAKERS - ONE 40 AMP/120 VOLT FOR CONTROLLER CABINET, ONE 15 AMP/120 VOLT FOR INTERNALLY ILLUMINATED STREET NAME SIGNS AND ONE 15 AMP/120 VOLT FOR FUTURE USE.  
 USE ALUMINUM RIGID ABOVEGROUND CONDUIT FOR ELECTRICAL POWER SERVICE.

639-2-1:  
 USE A BONDING WIRE FROM ELECTRICAL SERVICE POINT TO CONTROLLER.

646-1-11, 646-1-12:  
 USE LOCKING COLLARS WHEN MOUNTING ALUMINUM PEDESTRIAN POLES TO PEDESTRIAN PEDESTAL BASES.  
 USE BREAKAWAY ALUMINUM SQUARE BASE ASSEMBLIES WITH ALUMINUM DOORS FOR PEDESTRIAN PEDESTALS.

649-21-15, 649-21-21:  
 USE THREE 2" AND ONE 3/4" CONDUITS STUBBED OUT THROUGH THE MAST ARM POLE FOUNDATION AND TEMPORARILY SEAL.  
 ALL MAST ARM ASSEMBLIES SHALL HAVE A TERMINAL COMPARTMENT.

650-1-14, 650-1-16, 650-1-19:  
 USE LOUVERED ALUMINUM SIGNAL HEAD BACK PLATES WITH A 2" YELLOW REFLECTORIZED OUTER EDGE BORDER.  
 AVOID ADDITIONAL STRESS ON EXISTING SIGNAL SUPPORT STRUCTURE BY ALTERNATING INSTALLATION OF EACH NEW SIGNAL HEAD WITH THE REMOVAL OF EACH OLD SIGNAL HEAD.

653-1-11, 653-1-12:  
 PEDESTRIAN SIGNAL HEADS TO BE 16" INTERNATIONAL SYMBOL, LED COUNTDOWN TYPE.

660-3-11, 660-3-12:  
 SEE PLAN SHEET FOR THE NUMBER OF RADAR DETECTORS INCLUDED IN THE RADAR DETECTION ASSEMBLY.

660-4-11, 660-4-12:  
 SEE PLAN SHEET FOR THE NUMBER OF VIDEO CAMERAS INCLUDED IN THE VIDEO DETECTION ASSEMBLY.  
 USE A 72" LONG GUSSET TUBE FOR VIDEO DETECTION CAMERA ATTACHMENT BRACKET. VIDEO DETECTION TO BE COMPATIBLE WITH MAINTAINING AGENCY'S EXISTING VIDEO DETECTION SYSTEM.

665-1-11:  
 USE PEDESTRIAN BUTTON SIGNAL SIGN FTP-68B-06. STREET NAME SHALL BE IN ACCORDANCE WITH THE STREET NAMES SHOWN ON THE SIGNALIZATION PLAN SHEETS.

670-5-400:  
 CONTROLLER MMU (MALFUNCTION MANAGEMENT UNIT) TO BE COMPATIBLE WITH FOUR SECTION HEAD OPERATION/LOGIC.  
 THE COORDINATION TIMINGS WILL BE SUPPLIED TO THE ENGINEER UPON REQUEST FROM CONTRACTOR. REQUESTS SHOULD BE MADE TO RENJAN JOSEPH, P.E., FDOT ARTERIAL MANAGEMENT SYSTEM ENGINEER AT (863) 519-2746.  
 MODIFY EXISTING CONTROLLER AND PERFORM ANY CABINET AND FIELD WIRING NECESSARY TO ADD VIDEO DETECTION AND INTERNALLY ILLUMINATED SIGNS.

CORE DRILL EXISTING CONTROLLER CABINET BASE AND INSTALL NEW CONDUITS IF SPARE CONDUIT STUB-OUTS CANNOT BE USED. INSTALL NEW CONDUITS INTO THE EXISTING FOUNDATION AS REQUIRED IN PLANS. WHEN ADDITIONAL CONDUITS ARE REQUIRED, THE CONDUIT SHALL BE A MINIMUM OF 3" IN DIAMETER. LOCATE NEW CONDUITS SO THEY WILL NOT OBSTRUCT THE MAINTENANCE OF EQUIPMENT IN THE CABINET OR THE ANCHORING OR THE CABINET FLANGE TO THE CONCRETE FOUNDATION.

PROTECT INTERNAL CABINET AND EQUIPMENT FROM DUST AND DEBRIS CAUSED BY CORE DRILLING.

685-1-13:  
 INCLUDE AN UNINTERRUPTIBLE POWER SUPPLY UNIT (UPS). ATTACH UPS UNIT TO THE OUTSIDE OF THE CONTROLLER CABINET. INSTALL UPS UNIT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. UPS EQUIPMENT TO BE COMPATIBLE WITH MAINTAINING AGENCY'S EXISTING SYSTEM.

700-5-22:  
 ALL INTERNALLY ILLUMINATED STREET NAME SIGNS TO BE MOUNTED RIGIDLY ON MAST ARM.

CONNECT INTERNALLY ILLUMINATED STREET NAME SIGN CONDUCTORS TO PHOTOELECTRIC CELL LOCATED OUTSIDE THE ELECTRICAL SERVICE DISCONNECT BOX AND PHOTOELECTRIC CELL CONDUCTORS TO DEDICATED 15 AMP/120 VOLT CIRCUIT BREAKER LOCATED INSIDE THE ELECTRICAL SERVICE DISCONNECT BOX.

INSTALL PHOTOELECTRIC CELL FOR INTERNALLY ILLUIMNATED STREET NAME SIGNS ON TRAFFIC SIGNAL ELECTRICAL SERVICE DISCONNECT.

USE LED INTERNALLY ILLUMINATED STREET NAME SIGNS.

GENERAL NOTES:

1. WHERE 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 AND PROTECTED AND THE INITIAL 5 FEET OF THE SHAFT INSTALLATION SHALL BE HAND DUG.

2. FOR REMOVED SIGNAL EQUIPMENT CLAIMED BY MAINTAINING AGENCY, CONTACT MANATEE COUNTY.  
 MAINTAINING AGENCY: MANATEE COUNTY.

3. PAVEMENT MARKINGS ARE SHOWN FOR REFERENCE PURPOSES ONLY. FOR PAVEMENT MARKING DESIGN INFORMATION, SEE PAVEMENT MARKING PLANS.

4. 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  
 PH: 941-708-4429

5. AT LEAST TWO (2) FULL BUSINESS DAYS PRIOR TO BEGINNING THE TRAFFIC SIGNAL INSTALLATION, CONTACT MANATEE COUNTY TRAFFIC OPERATIONS AT (941) 708-7509

6. WHEN CONSTRUCTION IS COMPLETE, IN ADDITION TO THE REQUIREMENTS OF SECTION 9-8.1 (H) OF THE STANDARD SPECIFICATIONS, PROVIDE A SET OF "AS-BUILT" PLANS AND A SET OF IMSA INSPECTION FORMS IN ELECTRONIC FORM (PDF) TO:

MANATEE COUNTY TRAFFIC OPS  
 AARON BURKETT  
 TRAFFIC OPERATION DIVISION MANAGER  
 2904 12TH CT E  
 BRADENTON, FL 34208

7. WHEN CONSTRUCTION IS COMPLETE, IN ADDITON TO THE REQUIREMENT OF SECTION 9-8.1 (H) OF THE STANDARD SPECIFICATIONS, PROVIDE A SET OF "AS-BUILT" PLANS IN ELECTRONIC FORM (PDF) TO:

FDOT TRAFFIC OPERATIONS  
 RENJAN JOSEPH, P.E., AETERIAL MANAGEMENT SYSTEM ENGINEER.  
 801 N. BROADWAY AVE.  
 BARTOW, FL 33830-1249  
 EMAIL: RENJAN.JOSEPH@DOT.STATE.FL.US  
 PHONE: 863-519-2746

8. CONTRACTOR TO COORDINATE WITH MANATEE COUNTY FOR THE ACCEPTABLE FOOT APPROVED VIDEO DETECTION SYSTEM TO INSTALL PRIOR TO SHOP DRAWINGS SUBMITTAL. INSTALL THE DETECTION SYSTEM IN STRICT ACCORDANCE WITH THE VIDEO DETECTION SYSTEM INSTALLATION MANUALS. THE CONTRACTOR ONLY USE MANUFACTURE APPROVED CABLING CONNECTORS AND COMPONENTS FOR THE VIDEO DETECTION SYSTEM.

9. 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.

10. COORDINATION WITH FPL POWER COMPANY IN PERFORMING ALL NECESSARY WORK UNDER THEIR POWER LINES INCLUDING, BUT NOT LIMITED TO INSTALLATION OF SIGNAL CABLE, FIBERGLASS INSULATORS AND SIGNAL POLES. NOTIFY THE POWER COMPANY AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO THE INSTALLATION OF THIS EQUIPMENT. ALL SAFETY CLEARANCES TO OVERHEAD CONDUCTORS AS ESTABLISHED BY FPL SHALL BE STRICTLY ADHERED TO.

11. AT LEAST TWO (2) FULL BUSINESS DAYS PRIOR TO BEGINNING THE TRAFFIC SIGNAL INSPECTION, CONTACT THE CITY OF PALMETTO PUBLIC WORKS AT (941) 723-4580

MR. ALLEN TUSING  
 DIRECTOR OF PUBLIC WORKS  
 601 17TH STREET W  
 PALMETTO, FL 34221

UTILITY AGENCY / OWNERS:

JAMES CRUZAN  
 5413 SR 64 EAST  
 BRADENTON, FL 34208  
 PH: 727-329-2846  
 JAMES.CRUZAN@CHARTER.COM

STEPHEN WAIDLEY  
 FRONTIER COMMUNICATIONS  
 1701 RINGLING BLVD FLSS4113  
 SARASOTA, FL 34236  
 PH: 941-906-6720  
 STEPHEN.WAIDLEY@FTR.COM

GREG COKER  
 FP&L DISTRIBUTION  
 1253 12TH AVE E  
 PALMETTO, FL 34221  
 PH: 941-723-4430  
 GREG.COKER@FPL.COM

DAN SHANAHAN  
 TECO PEOPLES GAS  
 8261 VICO CT  
 SARASOTA, FL 34240  
 PH: 941-342-4006  
 DJSHANAHAN@TECOENERGY.COM

KATHY MCMAHON  
 MANATEE COUNTY- UTILITY OPERATIONS  
 4520 66TH ST W  
 BRADENTON, FL 34210  
 PH: 941-792-8811 X5002  
 KATHY.MCMAHON@MYMANATEE.COM

JEFF HANSHAW  
 PEACE RIVER ELECTRIC COOP.  
 PO BOX 1310 210 METHANY RD  
 WAUCHULA, FL 33873  
 PH: 863-767-4655  
 JEFF.HANSHAW@PRECO.COOP

AARON BURKETT  
 MANATEE COUNTY - TRANSPORTATION  
 4520 66TH STREET COURT EAST  
 BRADENTON, FL 34208  
 PH: 941-708-7509  
 AARON.BURKETT@MYMANATEE.ORG

ALLEN TUSING  
 CITY OF PALMETTO  
 516 8TH AVE W  
 PALMETTO, FL 34220  
 PH: 941-723-4570  
 ATUSING@PALMETTOFL.ORG

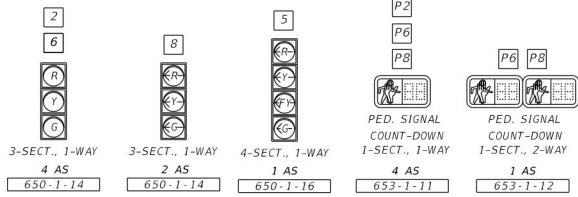
JAMES CRUZAN  
 BRIGHT HOUSE NETWORKS  
 5413 SR 64 EAST  
 BRADENTON, FL 34208  
 PH: 727-329-2846  
 JAMES.CRUZAN@MYBRIGHTHOUSE.COM

REVISIONS				EREZ DAYAN, P.E. P.E. LICENSE NUMBER 62144 PATEL, GREENE & ASSOCIATES, PLLC 280 WEST CANTON AVENUE, SUITE 400 WINTER PARK, FL 32789 CERTIFICATE OF AUTHORIZATION 29562	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES AND PAY ITEM NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 43	MANATEE	438062-1-52-01		T-4

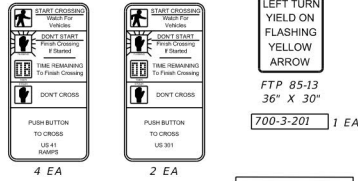
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



**SIGNAL HEAD DETAILS**

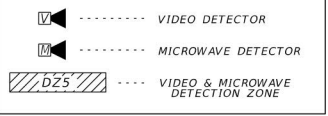


**PEDESTRIAN SIGN DETAILS**



- REMOVAL ITEMS:**
- 632-7-6 1 PI
  - 639-3-60 1 EA
  - 641-2-60 1 EA
  - 646-1-60 4 EA
  - 650-1-60 6 EA
  - 660-1-60 6 EA
  - 685-1-60 1 EA

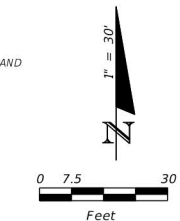
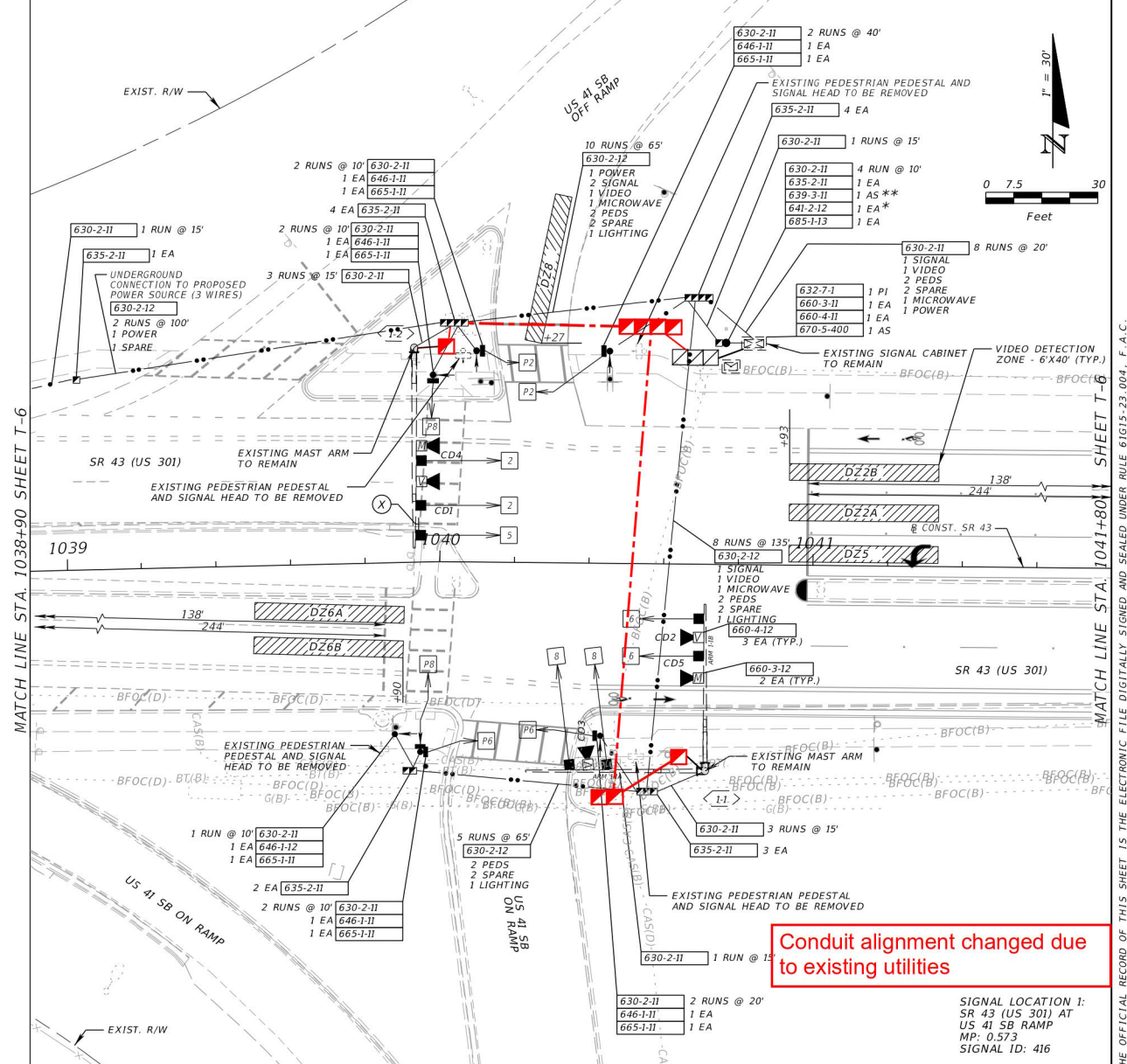
**SPECIAL SYMBOLOLOGY**



- New pull boxes
- Existing pull boxes
- Directional bore

**NOTES:**

- \* SERVICE POLE FOR FUSED AND NON-FUSED DISCONNECT BOX SHALL BE TYPE P-II, 12' IN HEIGHT.
- \*\* NON-FUSED DISCONNECT BOX WITH SAFETY SWITCH. CONTROLLER, GENERATOR AND MAST ARMS 1-1 AND 1-2 ARE EXISTING TO REMAIN.



MATCH LINE STA. 1038+90 SHEET T-6

MATCH LINE STA. 1041+80 SHEET T-6

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

EREZ DAYAN, P.E.  
P.E. LICENSE NUMBER 62144  
PATEL, GREENE & ASSOCIATES, PLLC  
280 WEST CANTON AVENUE, SUITE 400  
WINTER PARK, FL 32789  
CERTIFICATE OF AUTHORIZATION 29562

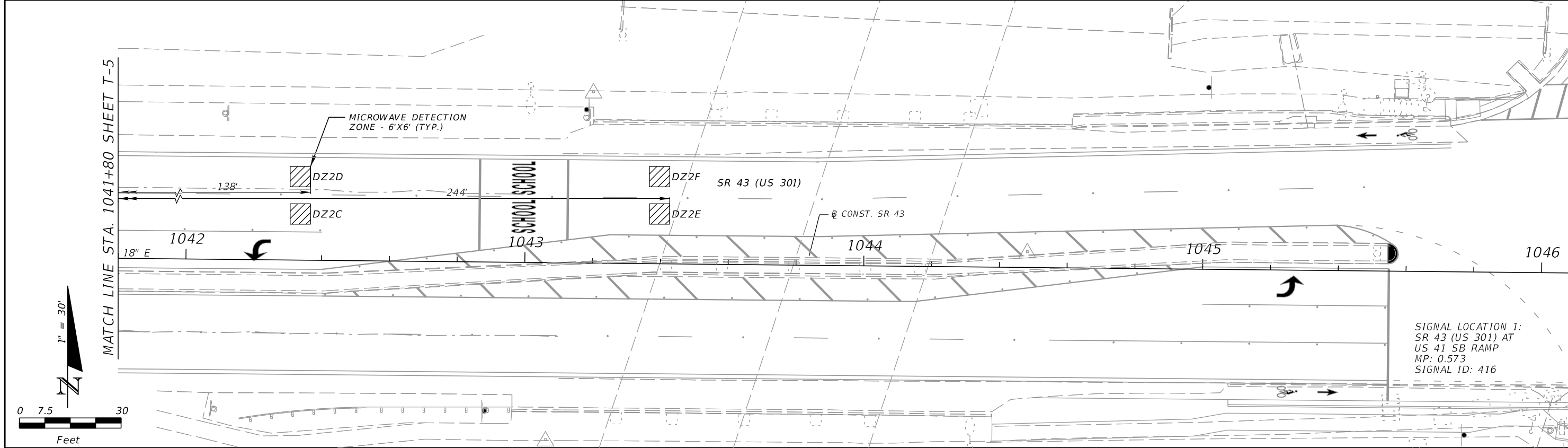
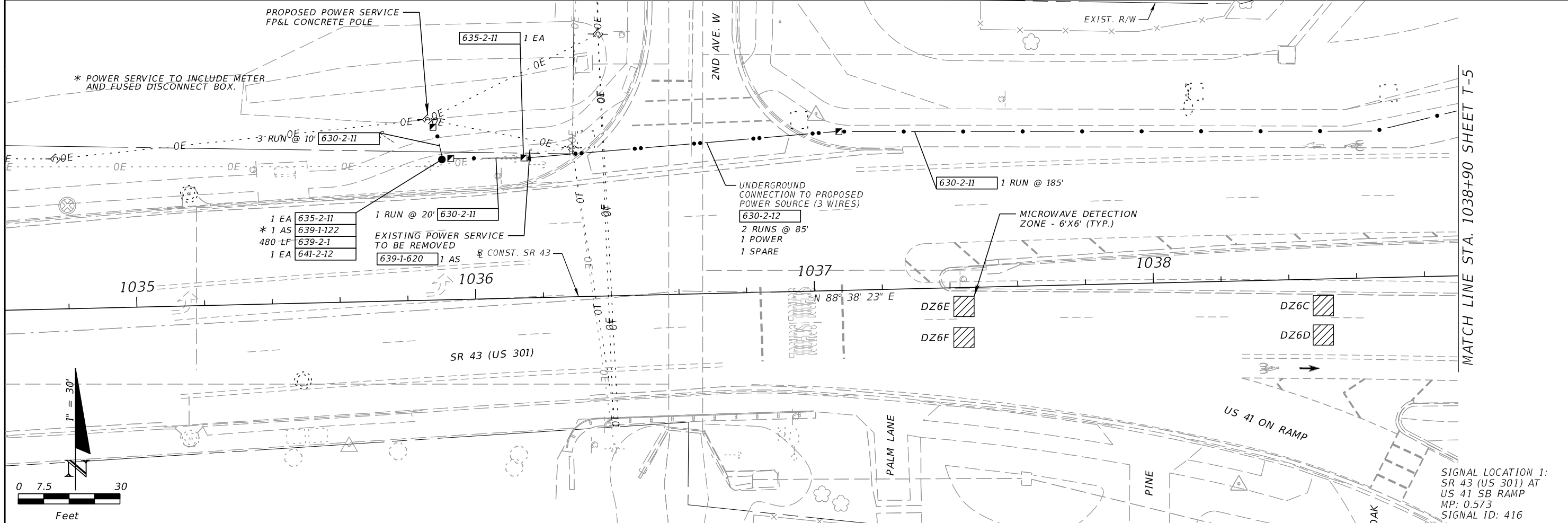
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 43	MANATEE	438062-1-52-01

**PLAN SHEET (1)**

SIGNAL LOCATION 1:  
SR 43 (US 301) AT  
US 41 SB RAMP  
MP: 0.573  
SIGNAL ID: 416

SHEET NO.
T-5

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



SIGNAL LOCATION 1:  
SR 43 (US 301) AT  
US 41 SB RAMP  
MP: 0.573  
SIGNAL ID: 416

SIGNAL LOCATION 1:  
SR 43 (US 301) AT  
US 41 SB RAMP  
MP: 0.573  
SIGNAL ID: 416

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

EREZ DAYAN, P.E.  
P.E. LICENSE NUMBER 62144  
PATEL, GREENE & ASSOCIATES, PLLC  
280 WEST CANTON AVENUE, SUITE 400  
WINTER PARK, FL 32789  
CERTIFICATE OF AUTHORIZATION 29562

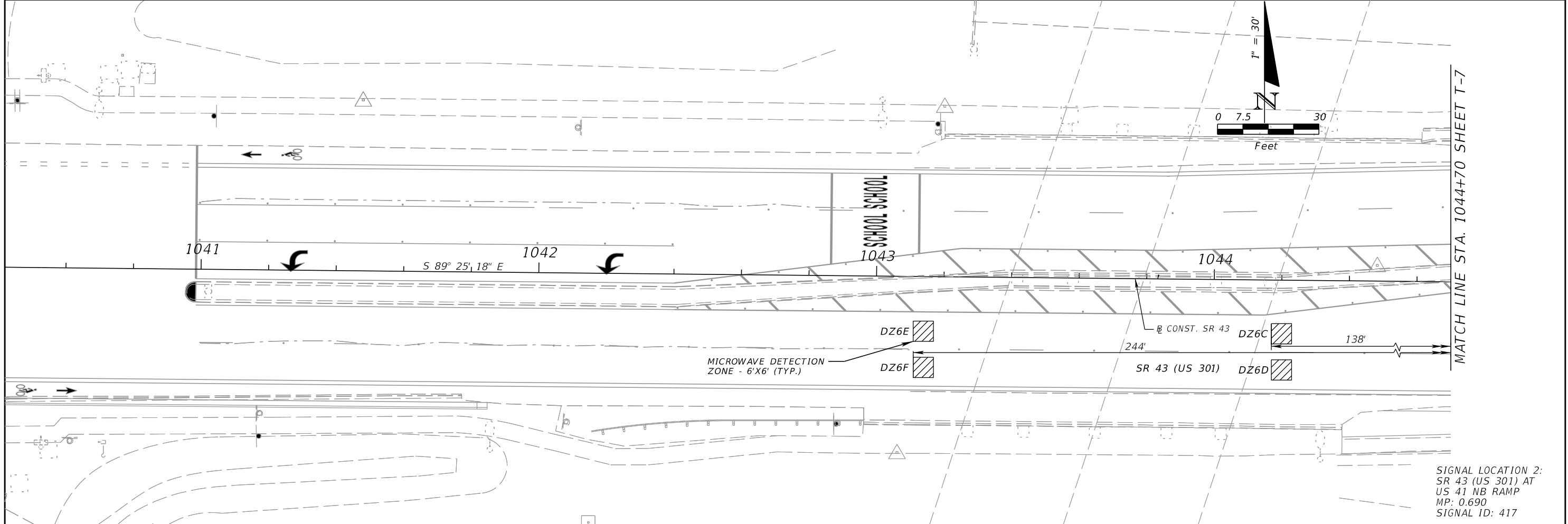
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 43	MANATEE	438062-1-52-01

**PLAN SHEET (2)**

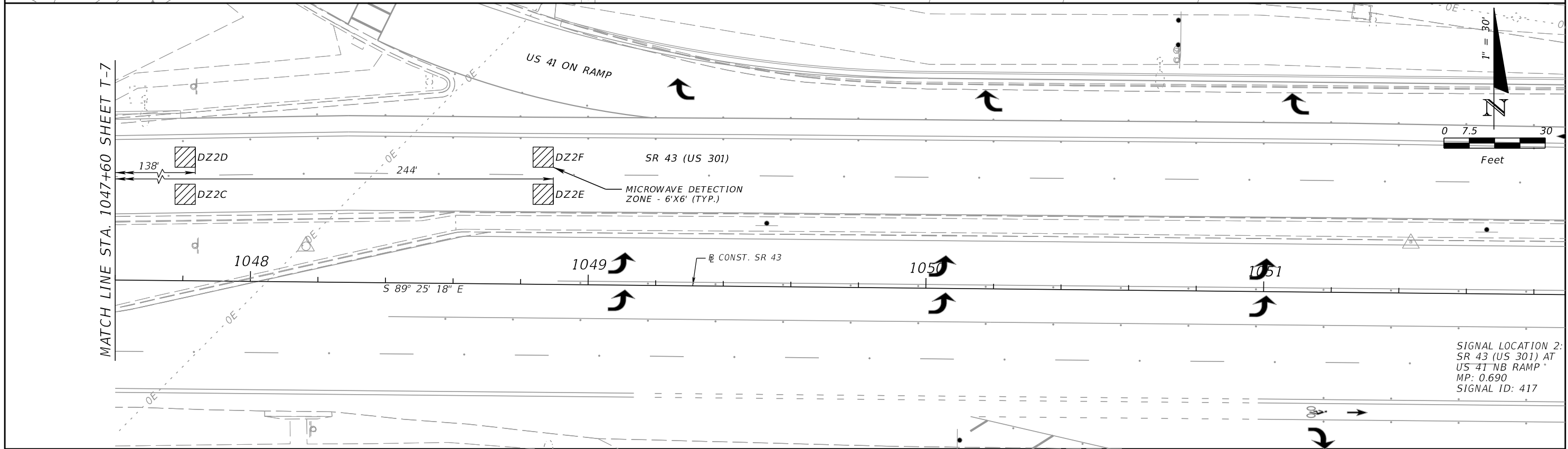
SHEET NO.  
T-6

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





SIGNAL LOCATION 2:  
 SR 43 (US 301) AT  
 US 41 NB RAMP  
 MP: 0.690  
 SIGNAL ID: 417



SIGNAL LOCATION 2:  
 SR 43 (US 301) AT  
 US 41 NB RAMP  
 MP: 0.690  
 SIGNAL ID: 417

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

EREZ DAYAN, P.E.  
 P.E. LICENSE NUMBER 62144  
 PATEL, GREENE & ASSOCIATES, PLLC  
 280 WEST CANTON AVENUE, SUITE 400  
 WINTER PARK, FL 32789  
 CERTIFICATE OF AUTHORIZATION 29562

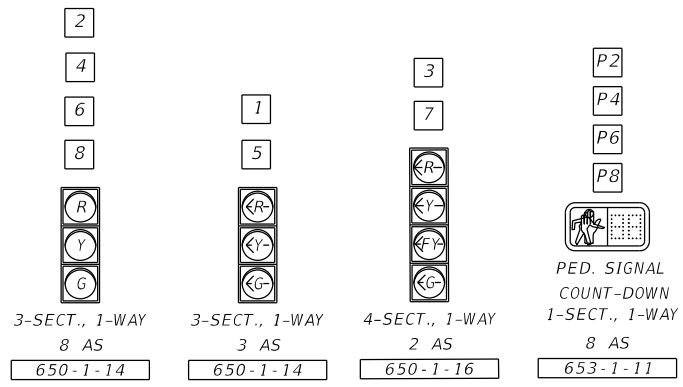
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 43	MANATEE	438062-1-52-01

**PLAN SHEET (4)**

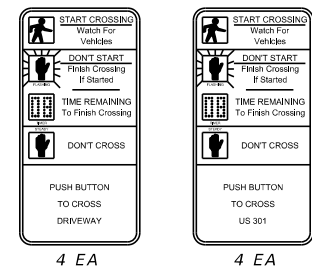
SHEET NO.  
T-8

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

**SIGNAL HEAD DETAILS**

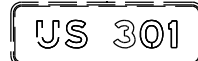


**PEDESTRIAN SIGN DETAILS**

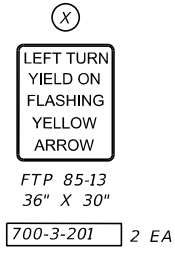
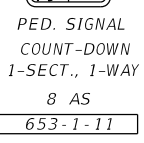


FTP-68B-06

**INTERNALLY ILLUMINATED SIGNS**

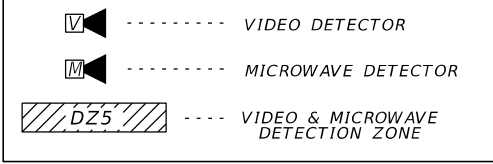


MAST ARMS 3-1 AND 3-3  
EXISTING INTERNALLY ILLUMINATED  
SIGNS TO REMAIN



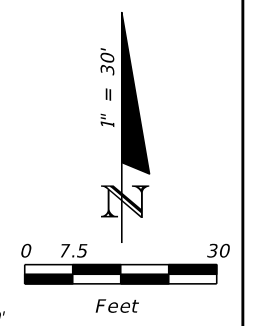
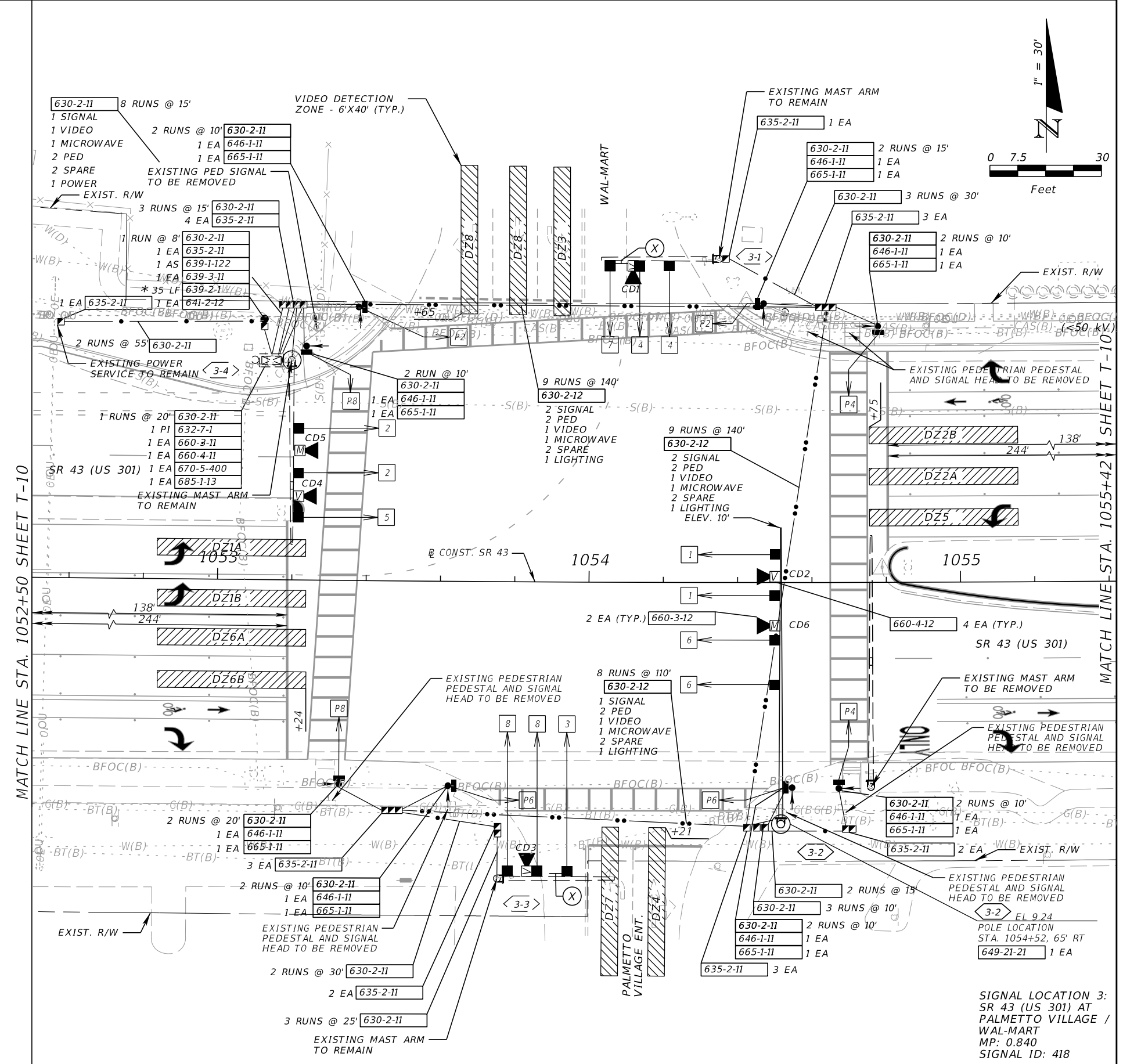
- REMOVAL ITEMS:**
- 632-7-6 1 PI
  - 639-3-60 1 EA
  - 641-2-60 1 EA
  - 646-1-60 7 EA
  - 649-26-5 1 EA
  - 650-1-60 7 EA
  - 660-1-600 12 EA
  - 685-1-60 1 EA

**SPECIAL SYMBOLOGY**



**NOTES:**

- \* SERVICE POLE FOR FUSED AND NON-FUSED DISCONNECT BOX SHALL BE TYPE P-II, 12' IN HEIGHT.
- \*\* NON-FUSED DISCONNECT BOX WITH SAFETY SWITCH. CONTROLLER, GENERATOR AND MAST ARM STRUCTURES 3-1, 3-3, AND 3-4 ARE EXISTING TO REMAIN.



MATCH LINE STA. 1052+50 SHEET T-10

MATCH LINE STA. 1055+42 SHEET T-10

SIGNAL LOCATION 3:  
SR 43 (US 301) AT  
PALMETTO VILLAGE /  
WAL-MART  
MP: 0.840  
SIGNAL ID: 418

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

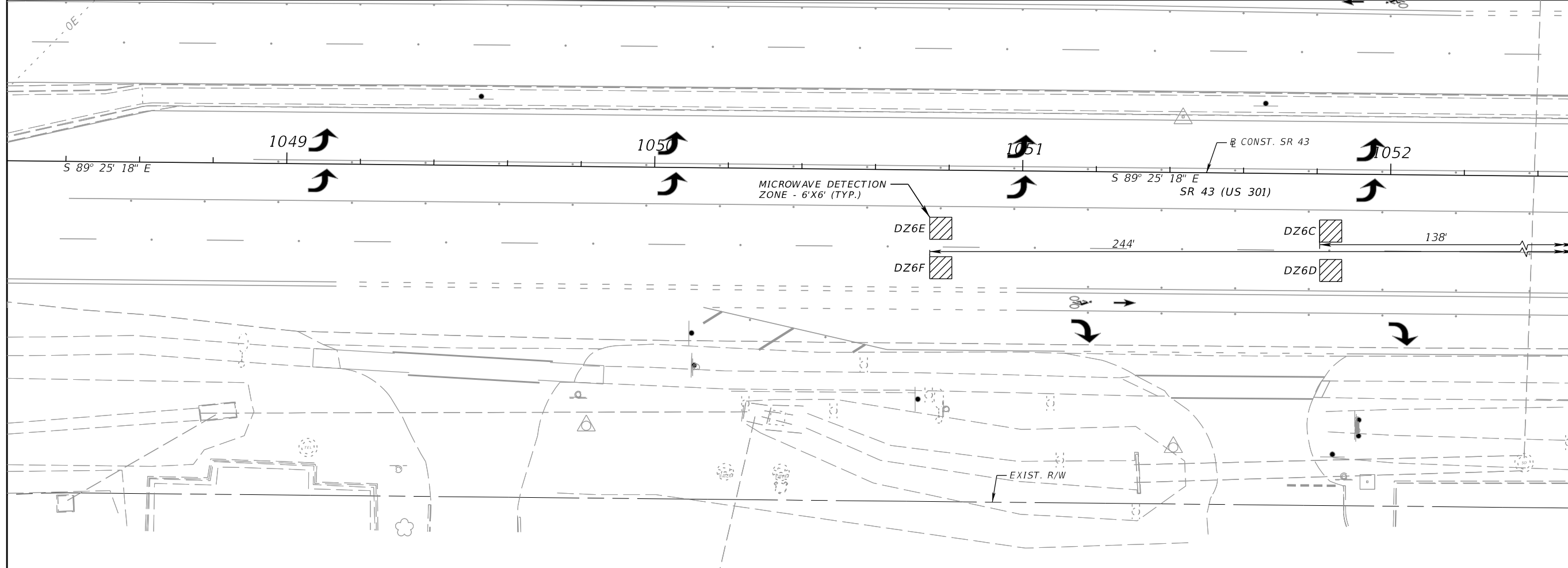
EREZ DAYAN, P.E.  
P.E. LICENSE NUMBER 62144  
PATEL, GREENE & ASSOCIATES, PLLC  
280 WEST CANTON AVENUE, SUITE 400  
WINTER PARK, FL 32789  
CERTIFICATE OF AUTHORIZATION 29562

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 43	MANATEE	438062-1-52-01

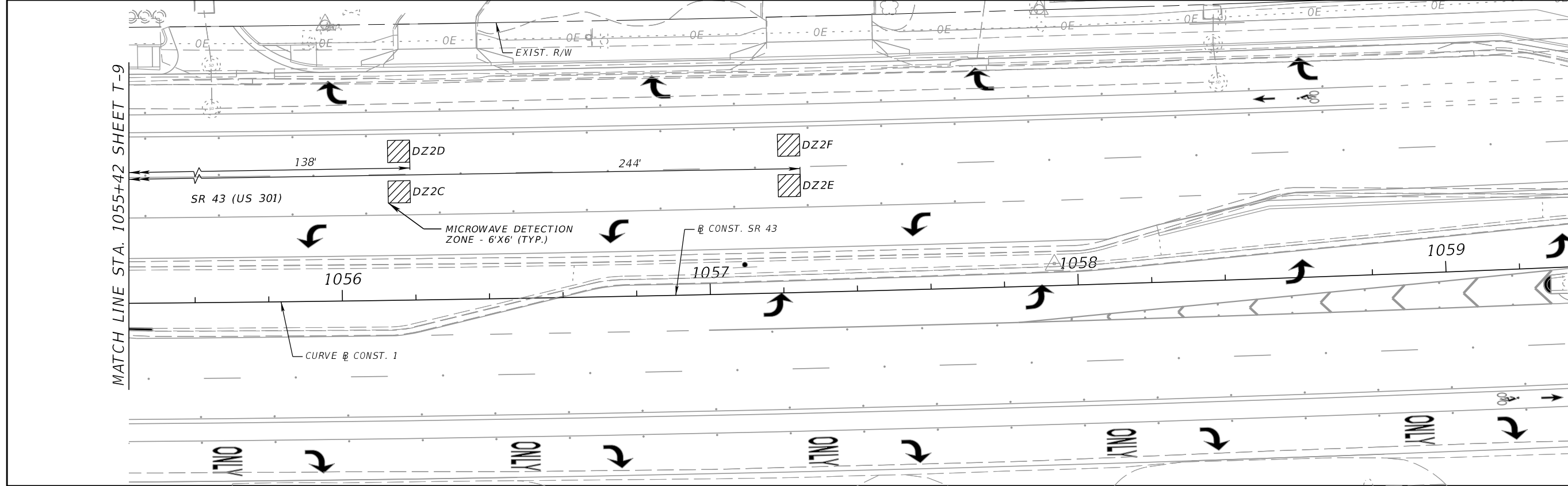
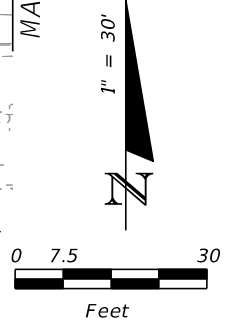
<b>PLAN SHEET (5)</b>		SHEET NO. T-9
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

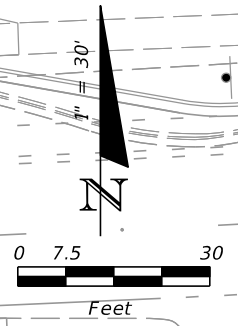
SIGNAL LOCATION 3:  
 SR 43 (US 301) AT  
 PALMETTO VILLAGE /  
 WAL-MART  
 MP: 0.840  
 SIGNAL ID: 418



MATCH LINE STA. 1052+50 SHEET T-9



MATCH LINE STA. 1055+42 SHEET T-9



SIGNAL LOCATION 3:  
 SR 43 (US 301) AT  
 PALMETTO VILLAGE /  
 WAL-MART  
 MP: 0.840  
 SIGNAL ID: 418

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

EREZ DAYAN, P.E.  
 P.E. LICENSE NUMBER 62144  
 PATEL, GREENE & ASSOCIATES, PLLC  
 280 WEST CANTON AVENUE, SUITE 400  
 WINTER PARK, FL 32789  
 CERTIFICATE OF AUTHORIZATION 29562

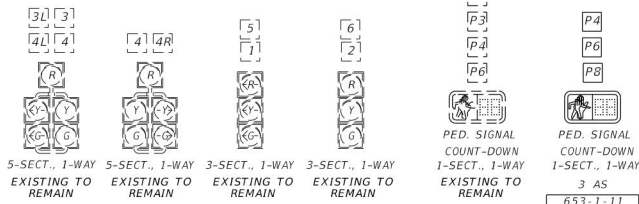
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 43	MANATEE	438062-1-52-01

**PLAN SHEET (6)**

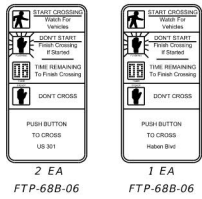
SHEET  
NO.  
**T-10**

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

**SIGNAL HEAD DETAILS**

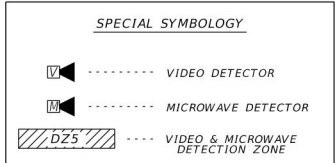
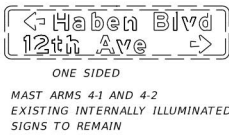
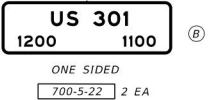


**PEDESTRIAN SIGN DETAILS**



- REMOVAL ITEMS:**
- 632-7-6 1 PI
  - 639-3-60 1 EA
  - 641-2-60 2 EA
  - 646-1-60 3 EA
  - 660-1-600 11 EA
  - 685-1-60 1 EA

**INTERNALLY ILLUMINATED SIGNS**  
 FOR DETAILS SEE SHEETS T-25

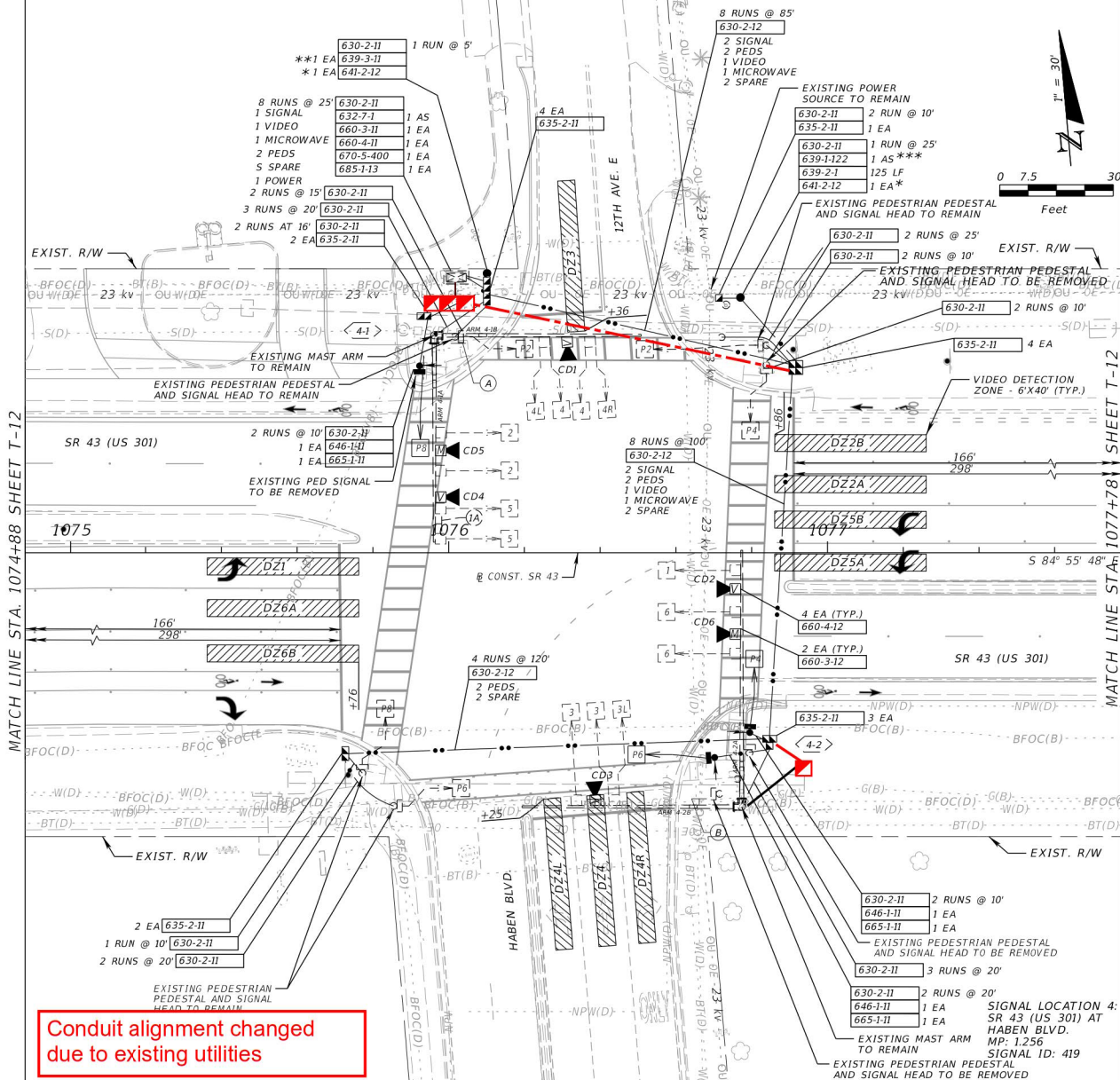


- New pull boxes
- Existing pull boxes
- Directional bore

**NOTES:**

- \* SERVICE POLE FOR FUSED AND NON-FUSED DISCONNECT BOX SHALL BE TYPE P-II, 12' IN HEIGHT.
- \*\* NON-FUSED DISCONNECT BOX WITH SAFETY SWITCH.
- \*\*\* POWER SERVICE TO INCLUDE METER AND FUSED DISCONNECT BOX.
- CONTROLLER, GENERATOR AND MAST ARM STRUCTURES 4-1 AND 4-2 ARE EXISTING TO REMAIN.

**Conduit alignment changed due to existing utilities**



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

EREZ DAYAN, P.E.  
 P.E. LICENSE NUMBER 62144  
 PATEL, GREENE & ASSOCIATES, PLLC  
 280 WEST CANTON AVENUE, SUITE 400  
 WINTER PARK, FL 32789  
 CERTIFICATE OF AUTHORIZATION 29562

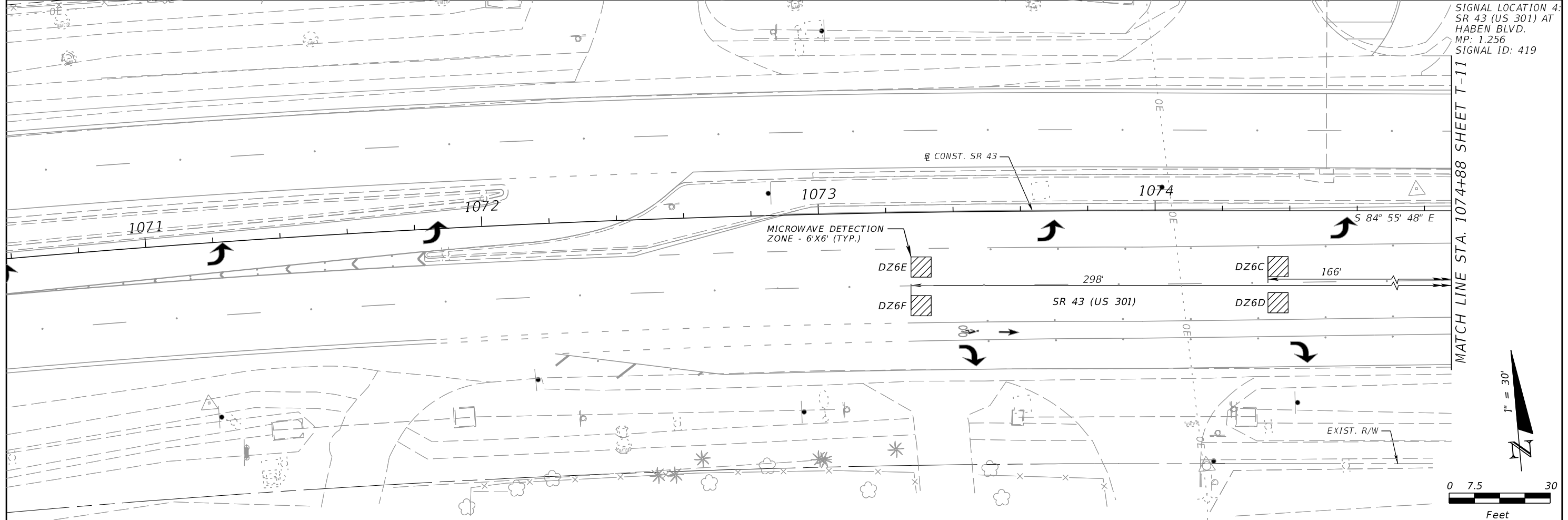
STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 43	MANATEE	438062-1-52-01

**PLAN SHEET (7)**

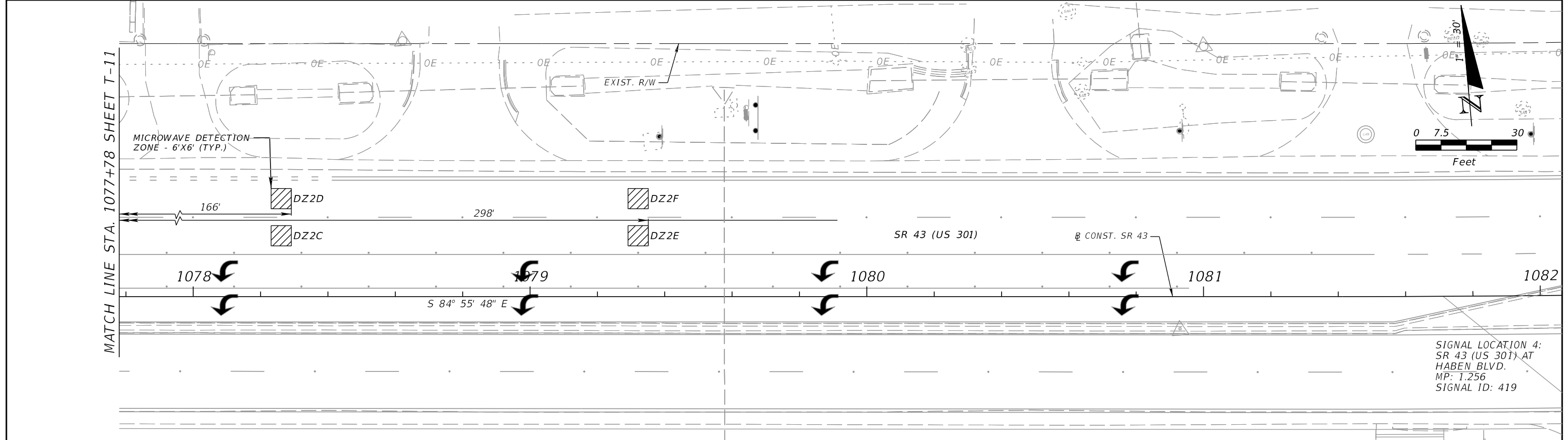
SHEET NO.	T-11
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SIGNAL LOCATION 4:  
SR 43 (US 301) AT  
HABEN BLVD.  
MP: 1.256  
SIGNAL ID: 419



0 7.5 30  
Feet



0 7.5 30  
Feet

SIGNAL LOCATION 4:  
SR 43 (US 301) AT  
HABEN BLVD.  
MP: 1.256  
SIGNAL ID: 419

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

EREZ DAYAN, P.E.  
P.E. LICENSE NUMBER 62144  
PATEL, GREENE & ASSOCIATES, PLLC  
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CERTIFICATE OF AUTHORIZATION 29562

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 43	MANATEE	438062-1-52-01

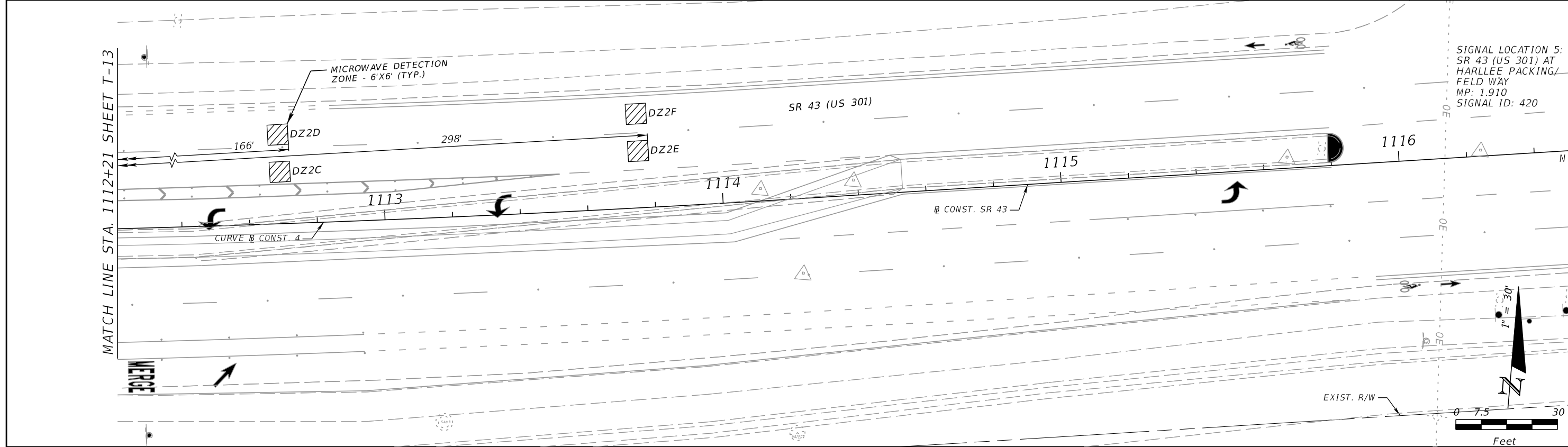
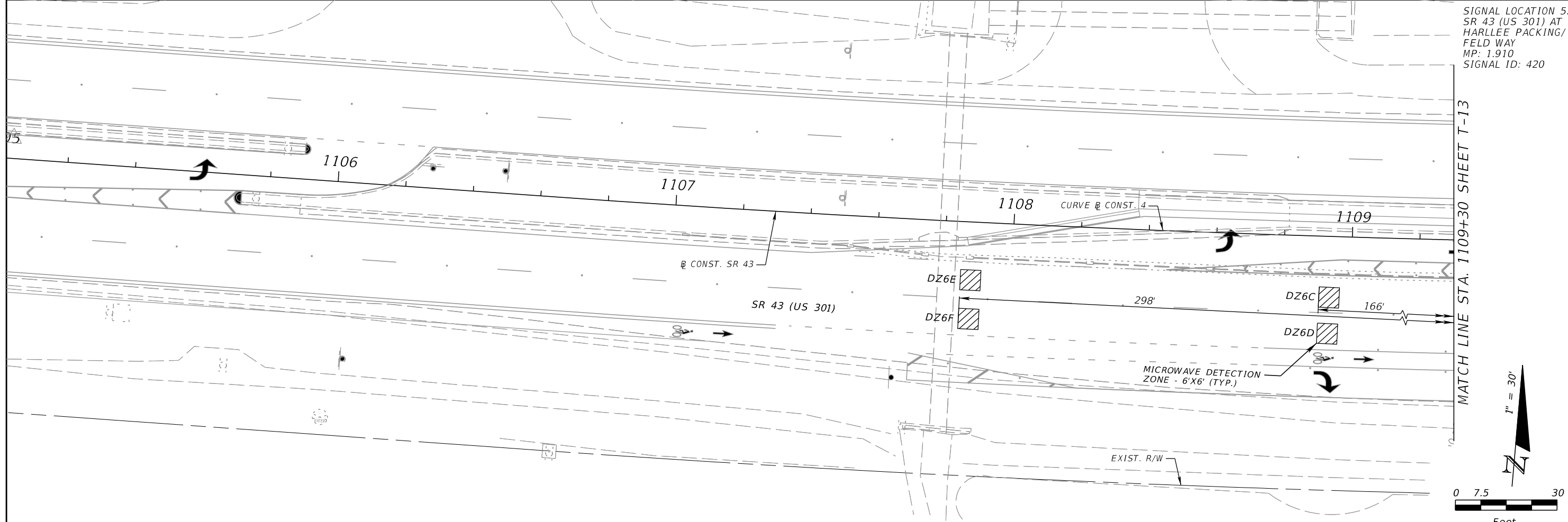
**PLAN SHEET (8)**

SHEET NO.  
T-12

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



SIGNAL LOCATION 5:  
SR 43 (US 301) AT  
HARLEE PACKING/  
FELD WAY  
MP: 1.910  
SIGNAL ID: 420



SIGNAL LOCATION 5:  
SR 43 (US 301) AT  
HARLEE PACKING/  
FELD WAY  
MP: 1.910  
SIGNAL ID: 420

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

EREZ DAYAN, P.E.  
P.E. LICENSE NUMBER 62144  
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WINTER PARK, FL 32789  
CERTIFICATE OF AUTHORIZATION 29562

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 43	MANATEE	438062-1-52-01

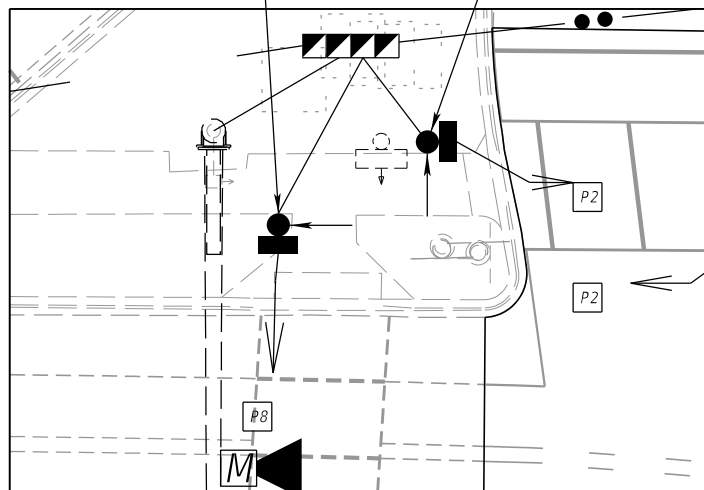
**PLAN SHEET (10)**

SHEET  
NO.  
**T-14**

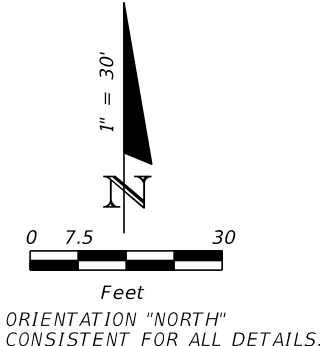
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

PEDESTRIAN PEDESTAL  
STA. 1039+99, 50' LT.

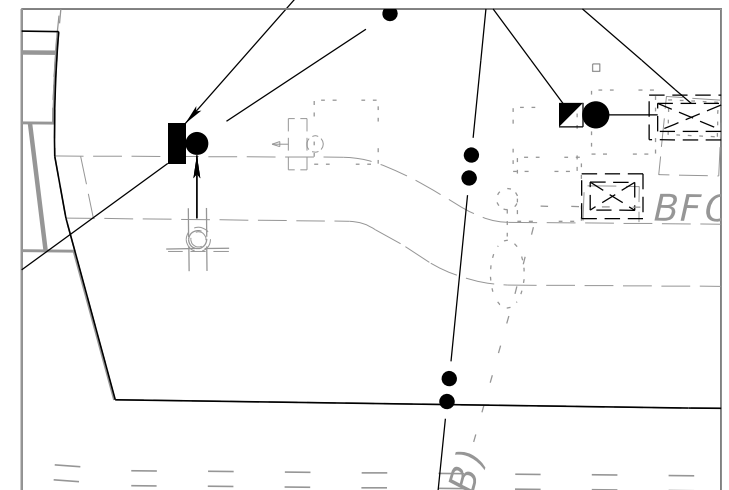
PEDESTRIAN PEDESTAL  
STA. 1040+09, 57' LT.



DETAIL 1" = 15'  
NORTHWEST QUADRANT  
SR 43 (US 301) AT US 41 SB RAMP



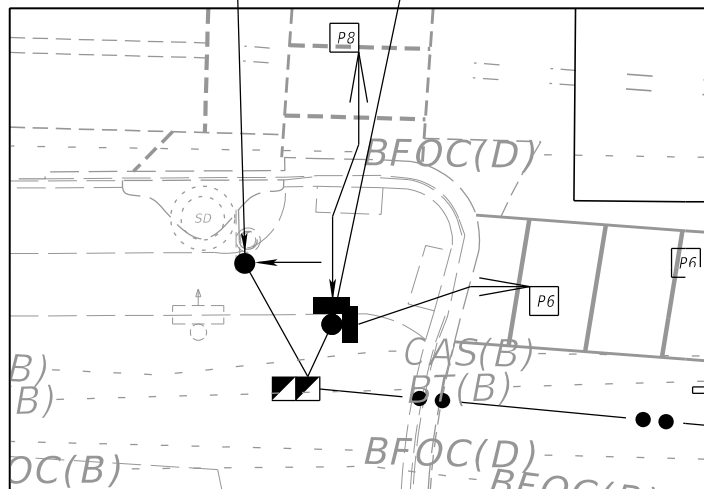
PEDESTRIAN PEDESTAL  
STA. 1040+45, 57' LT.



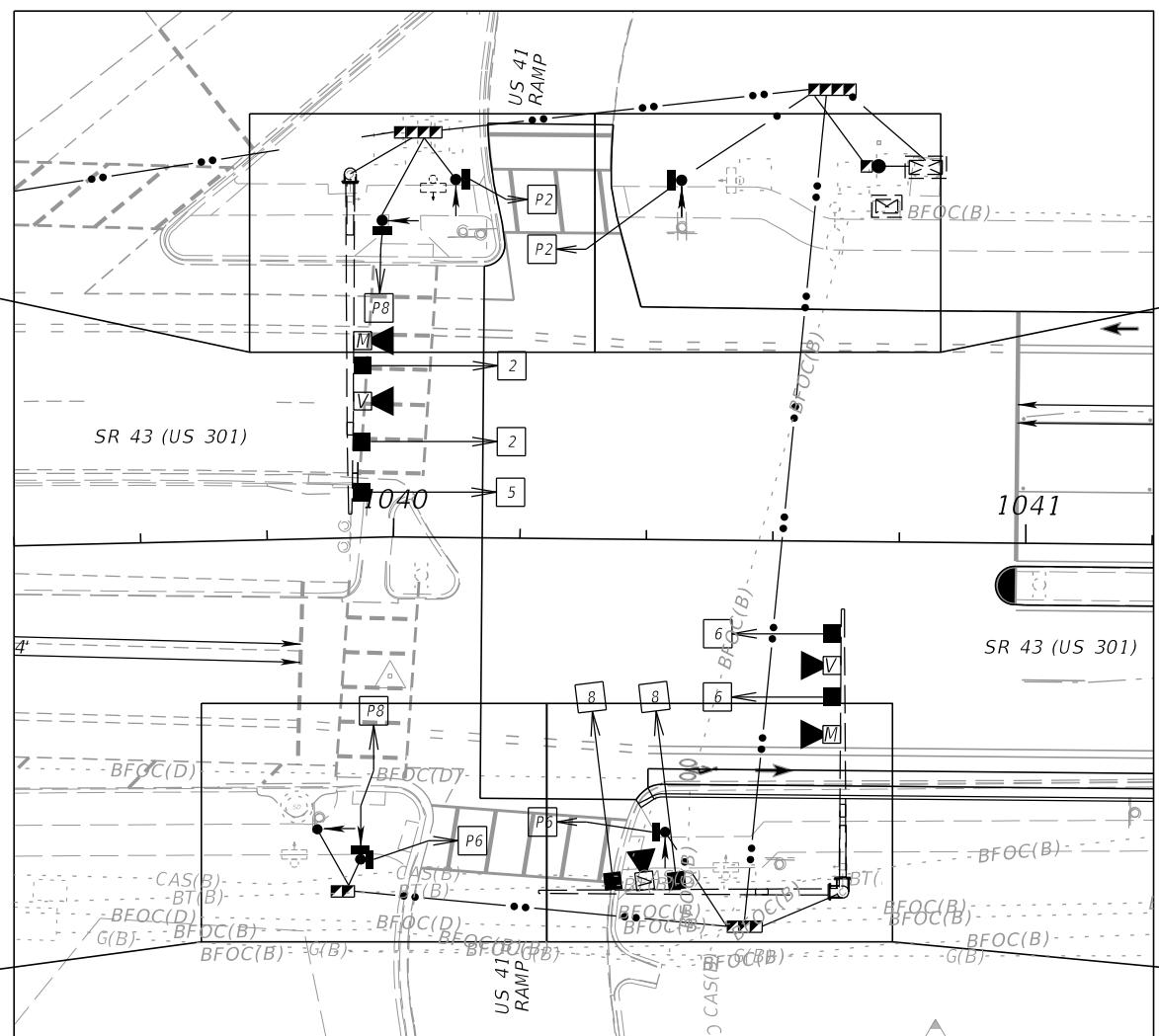
DETAIL 1" = 15'  
NORTHEAST QUADRANT  
SR 43 (US 301) AT US 41 SB RAMP

PEDESTRIAN PEDESTAL  
STA. 1039+87, 46' RT.

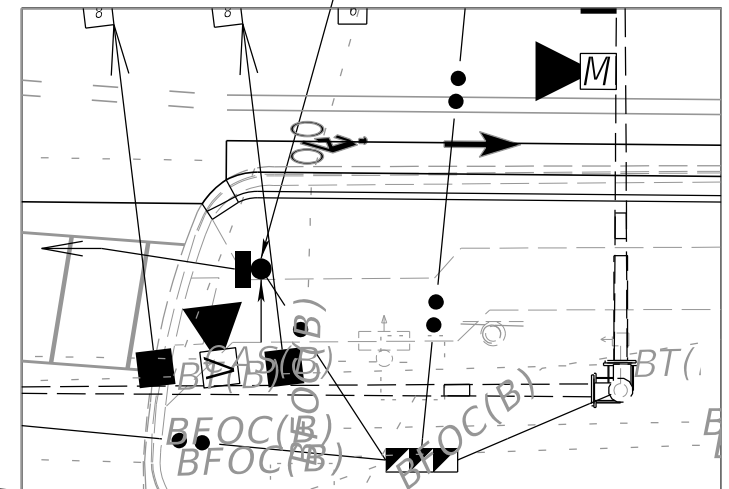
PEDESTRIAN PEDESTAL  
STA. 1039+94, 51' RT.



DETAIL 1" = 15'  
SOUTHWEST QUADRANT  
SR 43 (US 301) AT US 41 SB RAMP

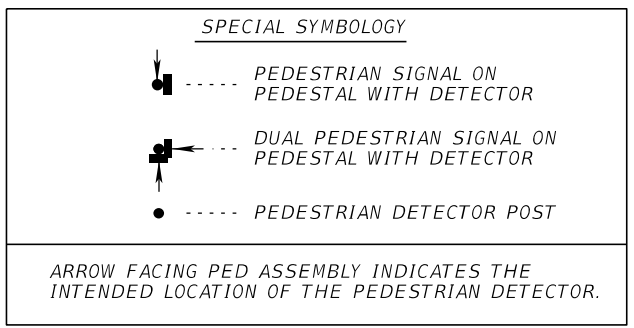


PEDESTRIAN PEDESTAL  
STA. 1040+43, 46' RT.



DETAIL 1" = 15'  
SOUTHEAST QUADRANT  
SR 43 (US 301) AT US 41 SB RAMP

SIGNAL LOCATION 1:  
SR 43 (US 301) AT  
US 41 SB RAMP  
MP: 0.573  
SIGNAL ID: 416



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

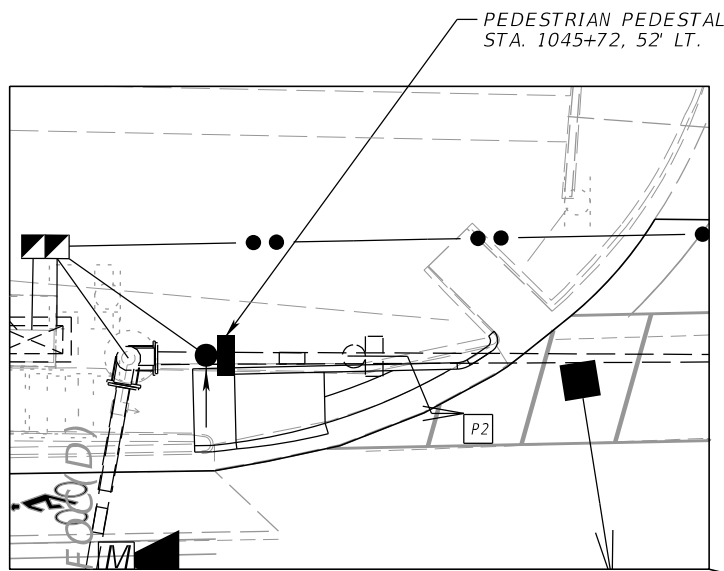
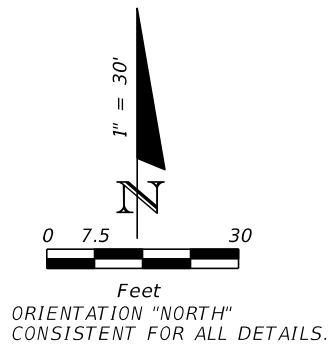
EREZ DAYAN, P.E.  
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 43	MANATEE	438062-1-52-01

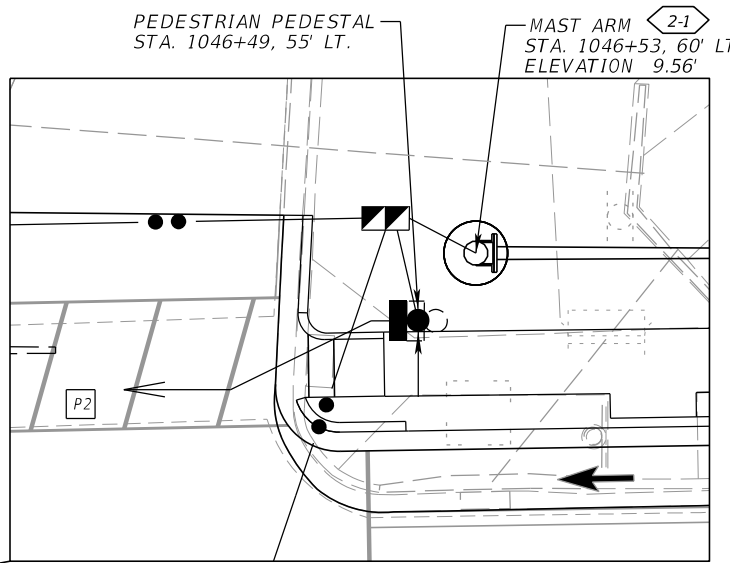
**PEDESTRIAN SIGNAL  
DETAIL (1)**

SHEET NO.  
T-15

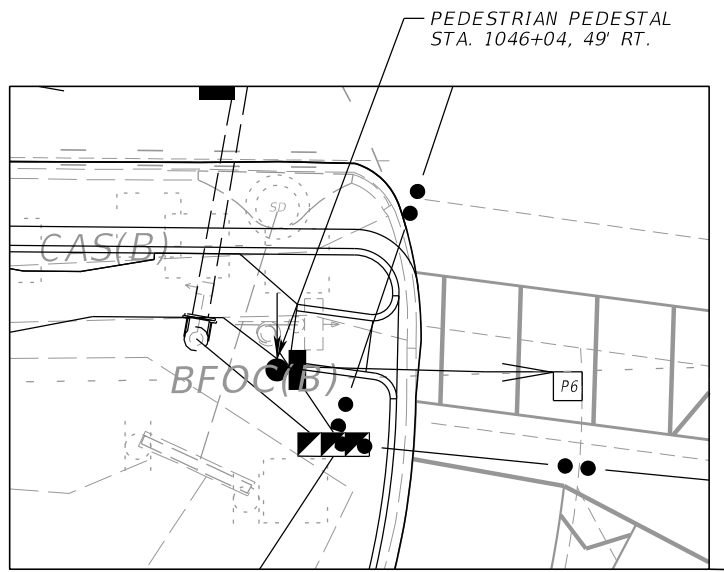
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



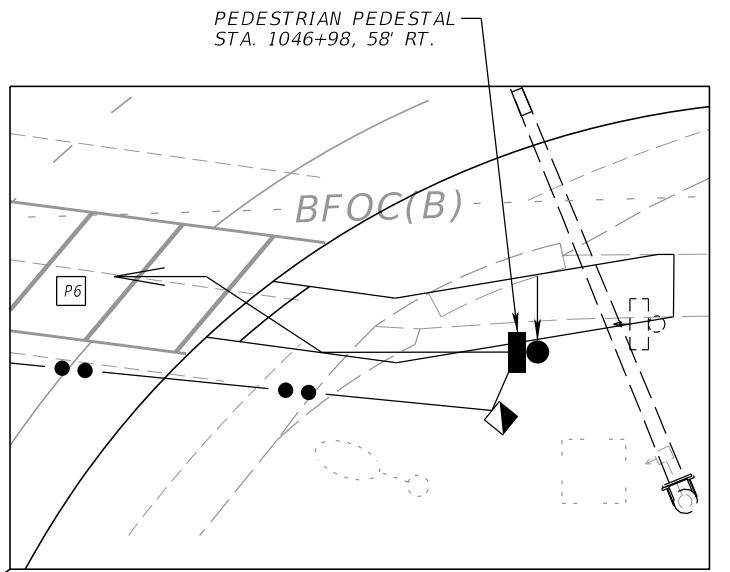
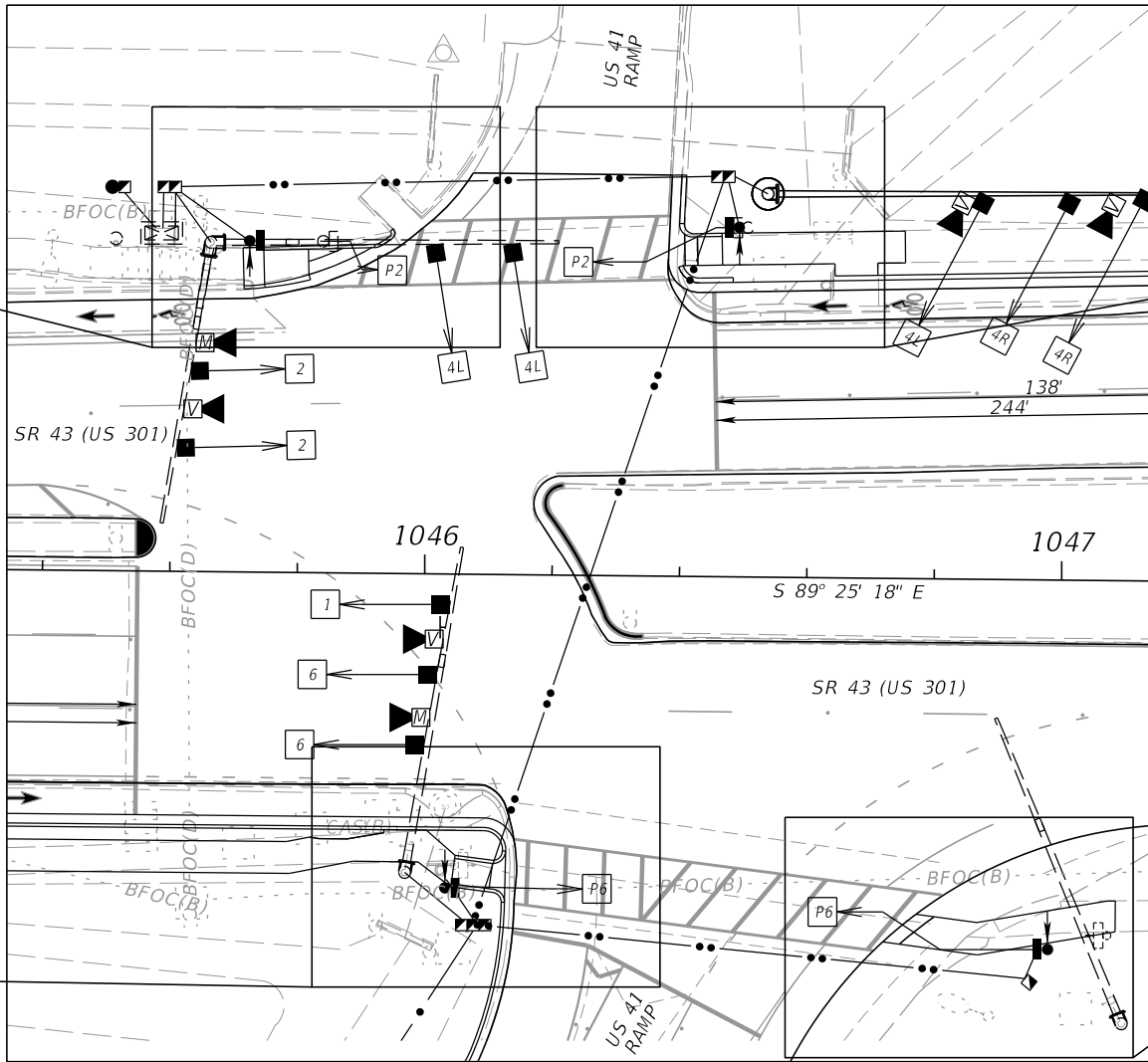
DETAIL 1" = 15'  
NORTHWEST QUADRANT  
SR 43 (US 301) AT US 41 NB RAMP



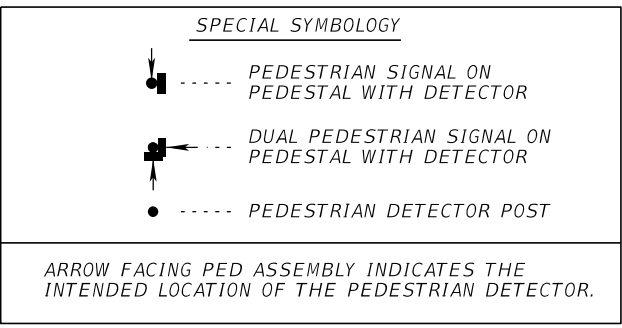
DETAIL 1" = 15'  
NORTHEAST QUADRANT  
SR 43 (US 301) AT US 41 NB RAMP



DETAIL 1" = 15'  
SOUTHWEST QUADRANT  
SR 43 (US 301) AT US 41 NB RAMP



DETAIL 1" = 15'  
SOUTHEAST QUADRANT  
SR 43 (US 301) AT US 41 NB RAMP



SIGNAL LOCATION 2:  
SR 43 (US 301) AT  
US 41 NB RAMP  
MP: 0.690  
SIGNAL ID: 417

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

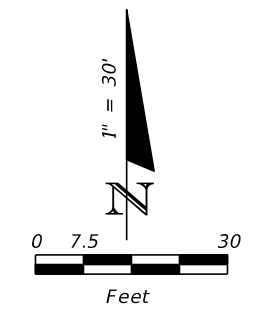
EREZ DAYAN, P.E.  
P.E. LICENSE NUMBER 62144  
PATEL, GREENE & ASSOCIATES, PLLC  
280 WEST CANTON AVENUE, SUITE 400  
WINTER PARK, FL 32789  
CERTIFICATE OF AUTHORIZATION 29562

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 43	MANATEE	438062-1-52-01

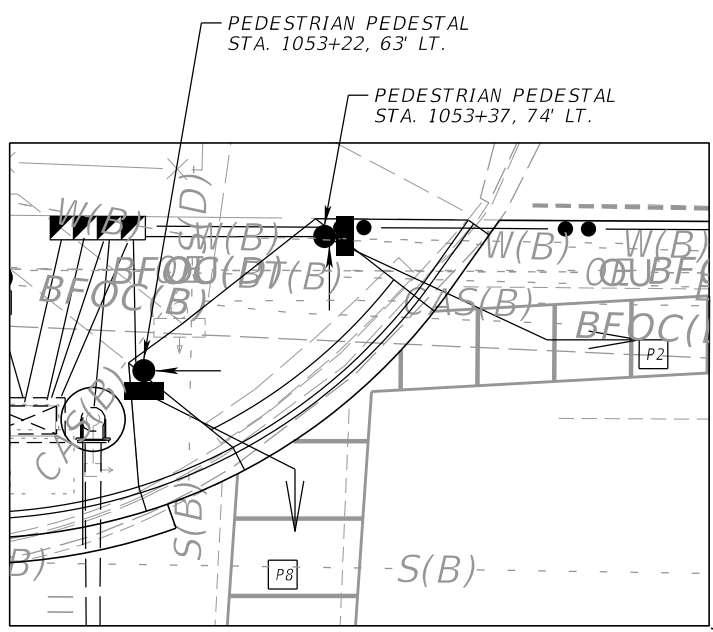
PEDESTRIAN SIGNAL  
DETAIL (2)

SHEET NO.  
T-16

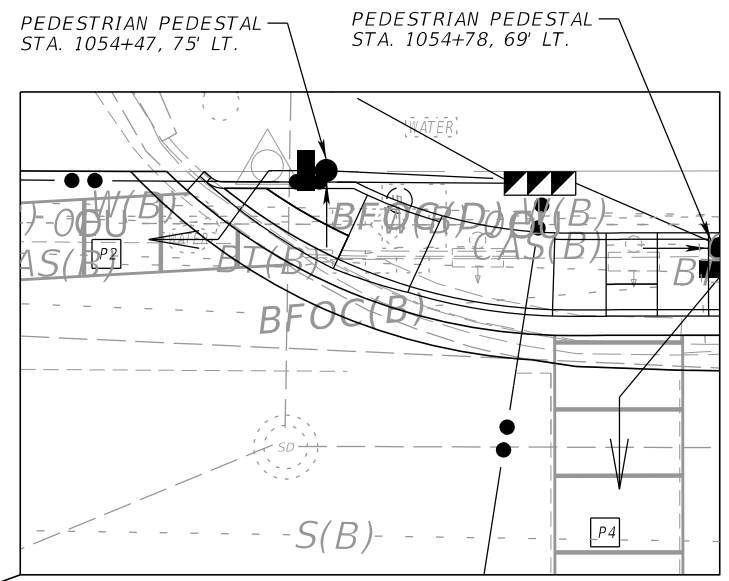
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



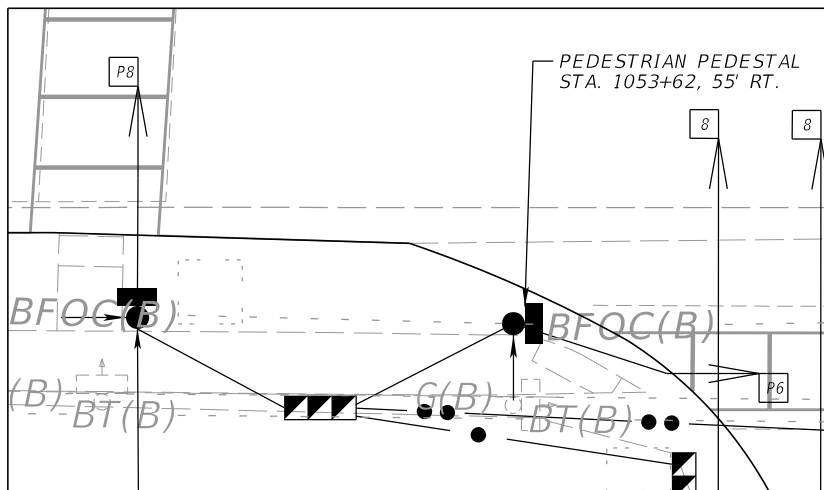
ORIENTATION "NORTH"  
CONSISTENT FOR ALL DETAILS.



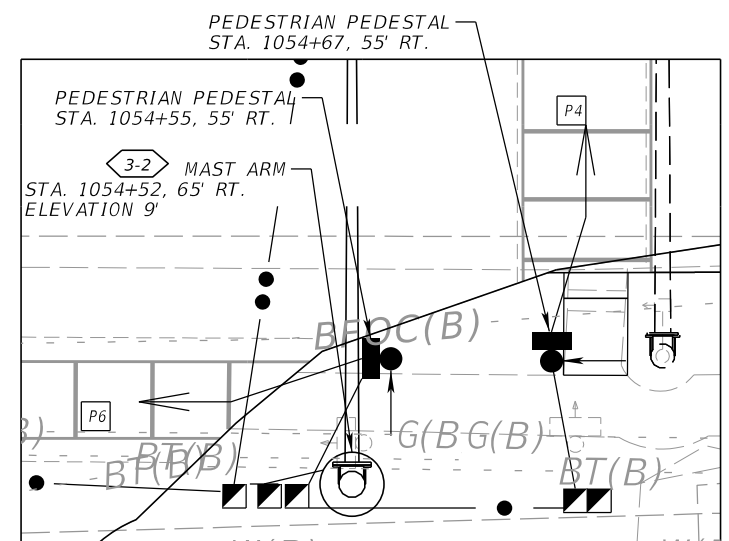
DETAIL 1" = 15'  
NORTHWEST QUADRANT  
SR 43 (US 301) AT PALMETTO VILLAGE / WAL-MART



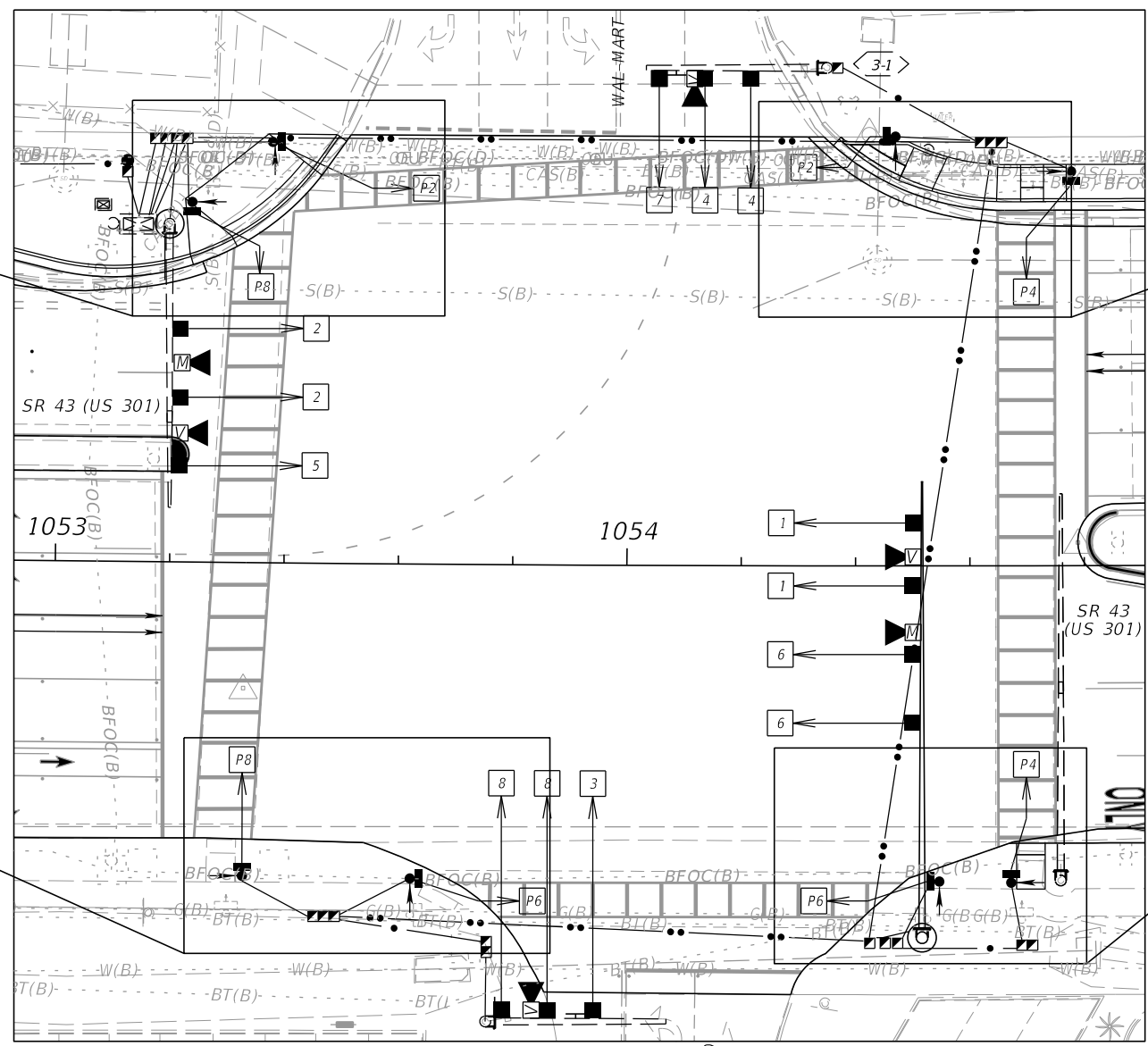
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NORTHEAST QUADRANT  
SR 43 (US 301) AT PALMETTO VILLAGE / WAL-MART



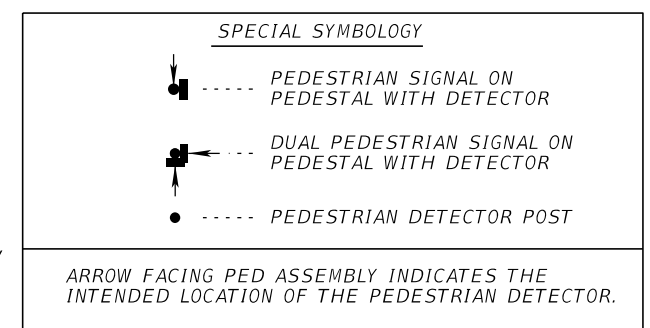
DETAIL 1" = 15'  
SOUTHWEST QUADRANT  
SR 43 (US 301) AT PALMETTO VILLAGE / WAL-MART



DETAIL 1" = 15'  
SOUTHEAST QUADRANT  
SR 43 (US 301) AT PALMETTO VILLAGE / WAL-MART



SIGNAL LOCATION 3:  
SR 43 (US 301) AT  
PALMETTO VILLAGE /  
WAL-MART  
MP: 0.840  
SIGNAL ID: 418



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

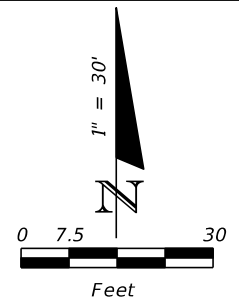
EREZ DAYAN, P.E.  
P.E. LICENSE NUMBER 62144  
PATEL, GREENE & ASSOCIATES, PLLC  
280 WEST CANTON AVENUE, SUITE 400  
WINTER PARK, FL 32789  
CERTIFICATE OF AUTHORIZATION 29562

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 43	MANATEE	438062-1-52-01

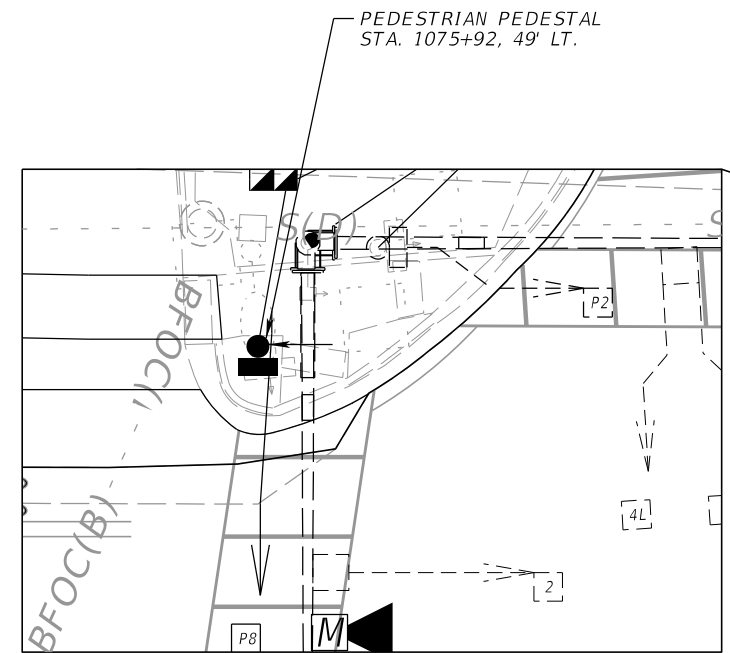
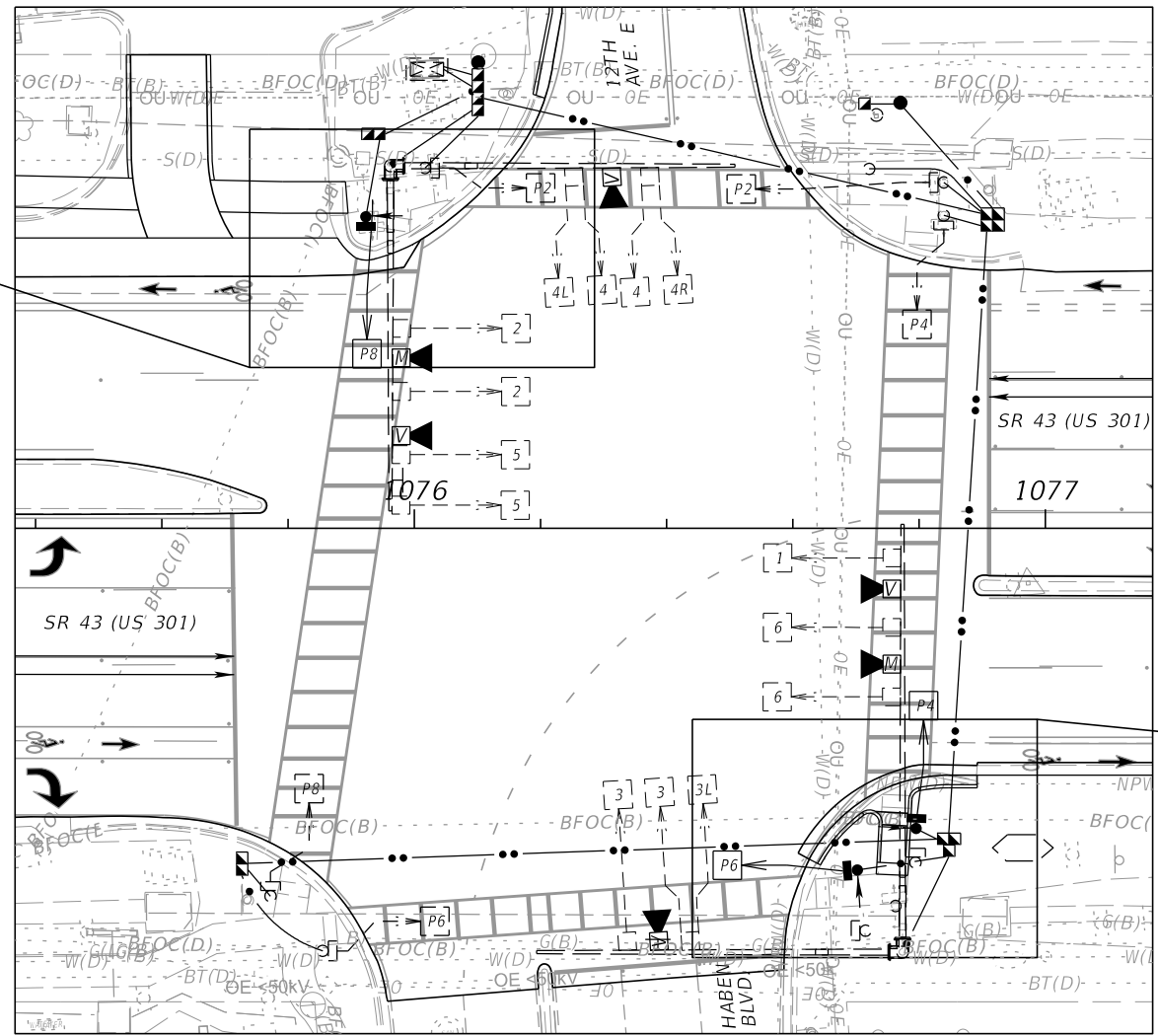
**PEDESTRIAN SIGNAL  
DETAIL (3)**

SHEET NO.  
T-17

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

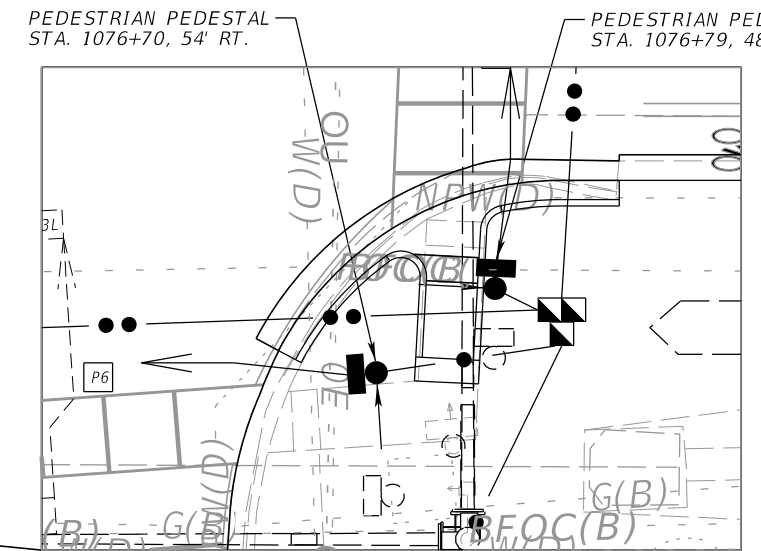


ORIENTATION "NORTH"  
CONSISTENT FOR ALL DETAILS.



PEDESTRIAN PEDESTAL  
STA. 1075+92, 49' LT.

DETAIL 1" = 15'  
NORTHWEST QUADRANT  
SR 43 (US 301) AT HABEN BLVD.

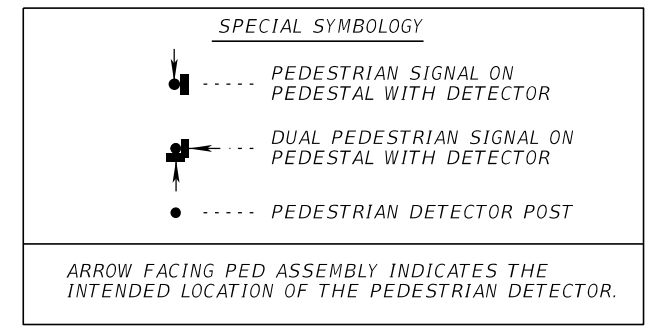


PEDESTRIAN PEDESTAL  
STA. 1076+70, 54' RT.

PEDESTRIAN PEDESTAL  
STA. 1076+79, 48' LT.

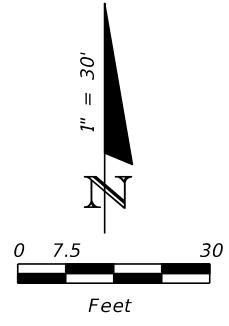
DETAIL 1" = 15'  
SOUTHEAST QUADRANT  
SR 43 (US 301) AT HABEN BLVD.

SIGNAL LOCATION 4:  
SR 43 (US 301) AT  
HABEN BLVD.  
MP: 1.256  
SIGNAL ID: 419

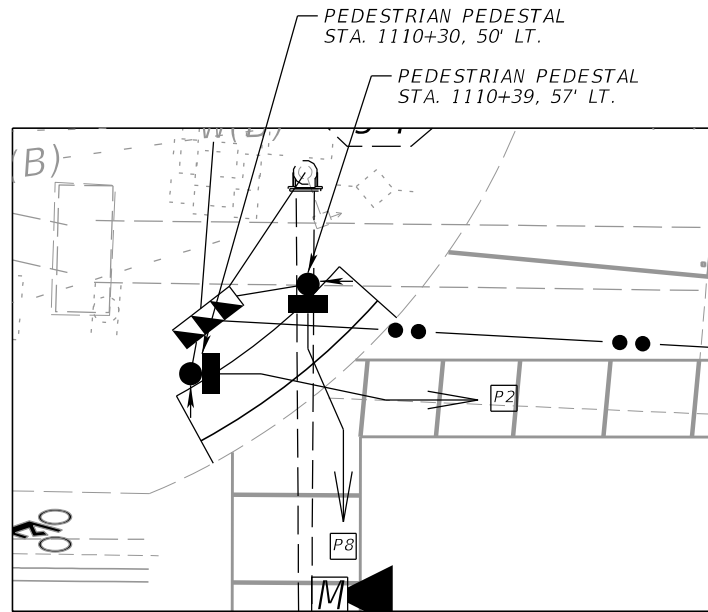


REVISIONS				EREZ DAYAN, P.E. P.E. LICENSE NUMBER 62144 PATEL, GREENE & ASSOCIATES, PLLC 280 WEST CANTON AVENUE, SUITE 400 WINTER PARK, FL 32789 CERTIFICATE OF AUTHORIZATION 29562	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PEDESTRIAN SIGNAL DETAIL (4)	SHEET NO.  T-18
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 43	MANATEE	438062-1-52-01		

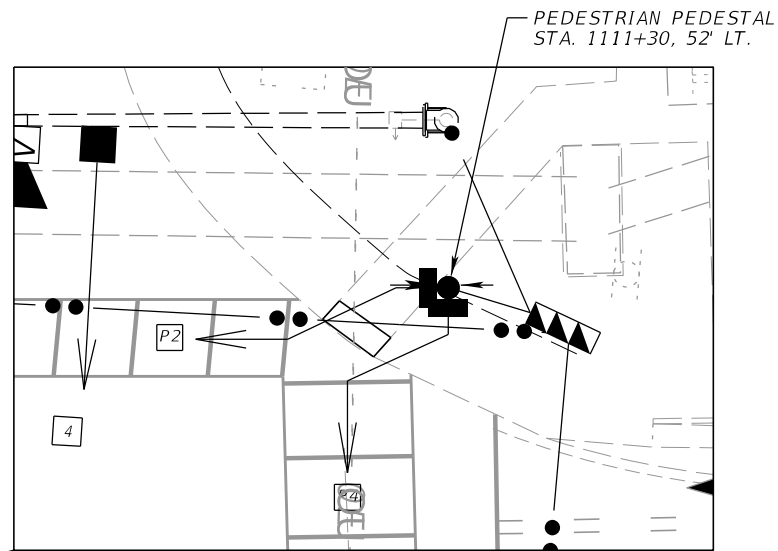
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



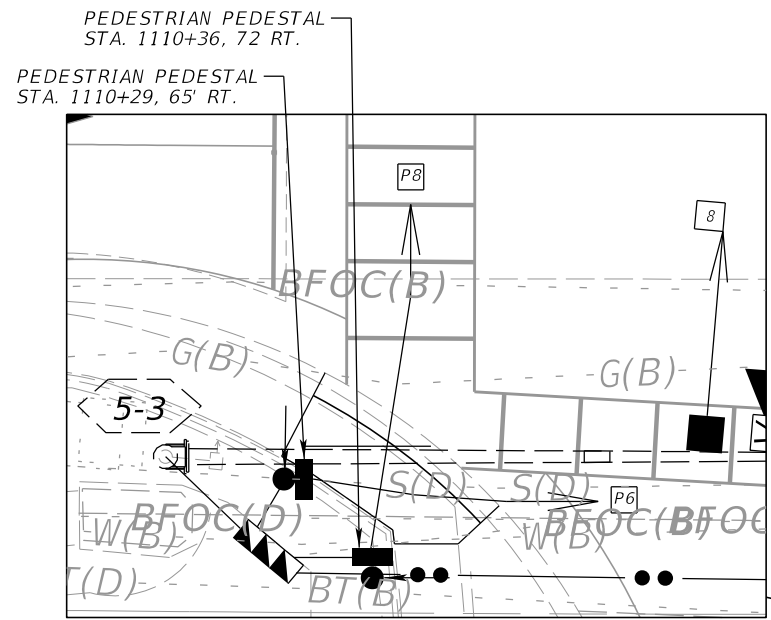
ORIENTATION "NORTH"  
CONSISTENT FOR ALL DETAILS.



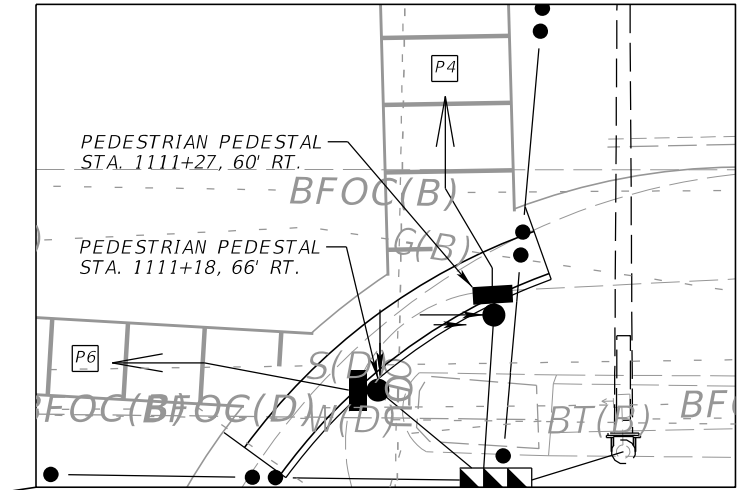
DETAIL 1" = 15'  
NORTHWEST QUADRANT  
SR 43 (US 301) AT HARLLEE PACKING / FELD WAY



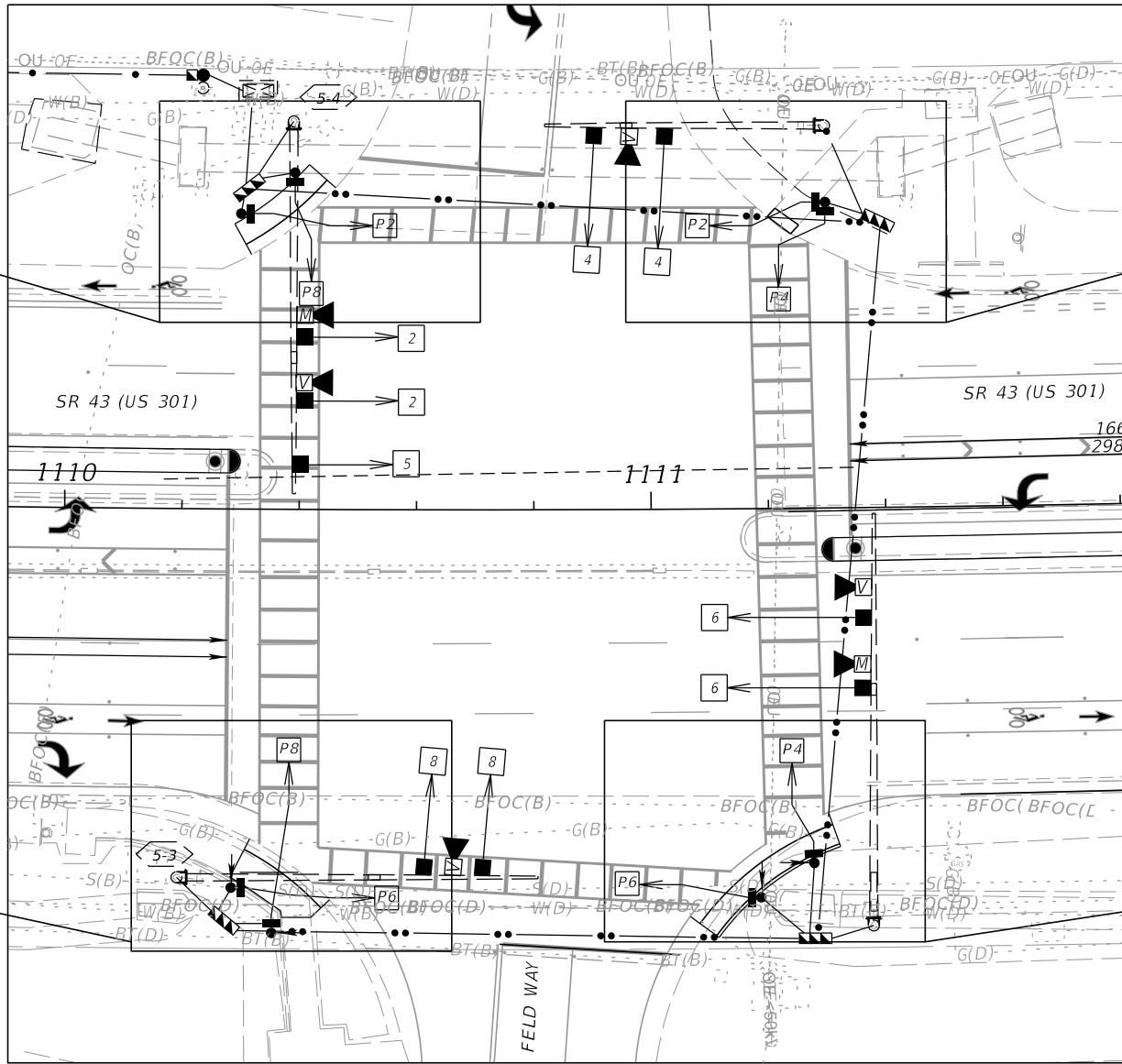
DETAIL 1" = 15'  
NORTHEAST QUADRANT  
SR 43 (US 301) AT HARLLEE PACKING / FELD WAY



DETAIL 1" = 15'  
SOUTHWEST QUADRANT  
SR 43 (US 301) AT HARLLEE PACKING / FELD WAY



DETAIL 1" = 15'  
SOUTHEAST QUADRANT  
SR 43 (US 301) AT HARLLEE PACKING / FELD WAY



**SPECIAL SYMBOLOLOGY**

- PEDESTRIAN SIGNAL ON PEDESTAL WITH DETECTOR
- DUAL PEDESTRIAN SIGNAL ON PEDESTAL WITH DETECTOR
- PEDESTRIAN DETECTOR POST

ARROW FACING PED ASSEMBLY INDICATES THE INTENDED LOCATION OF THE PEDESTRIAN DETECTOR.

SIGNAL LOCATION 5:  
SR 43 (US 301) AT  
HARLLEE PACKING /  
FELD WAY  
MP: 1.910  
SIGNAL ID: 420

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

EREZ DAYAN, P.E.  
P.E. LICENSE NUMBER 62144  
PATEL, GREENE & ASSOCIATES, PLLC  
280 WEST ROSEN BOWLE AVENUE, SUITE 100  
WINTER PARK, FL 32789  
CERTIFICATE OF AUTHORIZATION 29562

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 43	MANATEE	438062-1-52-01

**PEDESTRIAN SIGNAL  
DETAIL (5)**

SHEET NO.  
T-19

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

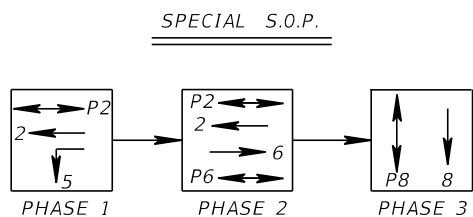
CONTROLLER OPERATION NOTES:

1. MAJOR STREET IS SR 43 (US 301), MOVEMENTS 2 AND 6 AND MINOR STREET IS US 41 SB RAMP, MOVEMENT 8.
2. SPECIAL SIGNAL OPERATING PLAN WITH THE FOLLOWING:
  - (A) REQUEST UPDATED SIGNAL TIMINGS FROM FDOT ARTERIAL MANAGEMENT SYSTEM ENGINEER (863-519-2746) 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 SIGNAL 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.
  - (B) CONCURRENT/ACTUATED PEDESTRIANS FOR MOVEMENTS 2 (P2), 6 (P6) AND 8 (P8).
  - (C) WHEN SIGNAL IS IN FLASHING MODE, MOVEMENTS 2 AND 6 SHALL FLASH YELLOW, ALL OTHER VEHICLE MOVEMENTS SHALL FLASH RED.
3. PROGRAM PHASE RESTRICTIONS TO OMIT MOVEMENT 5 AND REDIRECT CALLS FROM MOVEMENT 5 TO MOVEMENT 2, WHEN MOVEMENT 6 IS GREEN.
4. THE CONTROLLER CABINET SHALL BE WIRED FOR SOP 10. THE CONTROLLER SHALL OPERATE THE SPECIAL SOP AS INDICATED.

CONTROLLER TIMINGS								
(CONTROLLER PHASE #) MOVEMENT NUMBER	1	2	3	4	5	6	7	8
DIRECTION		WB			WBL	EB		SB
TURN TYPE					PROT/PERM			
MINIMUM GREEN		16			5	16		7
EXTENSION		1.9			3.0	1.9		3.0
YELLOW CLEARANCE		4.4			4.4	4.4		3.9
ALL RED		2.1			2.6	2.1		3.0
MAXIMUM GREEN 1								
MAXIMUM GREEN 2								
MAX LIMIT								
ADJUST BY								
PEDESTRIAN WALK		7				7		7
PED. CLEARANCE		6				10		25
DETECTOR MEMORY								
DET. CROSS SWITCH					ON			
DUAL ENTRY		ON				ON		
RECALL		ON				ON		

VIDEO DETECTOR CONFIGURATION CHART				
VIDEO DETECTOR	DETECTION ZONE (6' X 40')	DETECTION ZONE (6' X 6')	MOVEMENT	DELAY TIME (SEC)
CD1	DZ2A		2	
	DZ2B		2	
	DZ5		5	
CD2	DZ6A		6	
	DZ6B		6	
CD3	DZ8		8	
MICROWAVE DETECTOR CONFIGURATION CHART				
CD4		DZ2C	2	
		DZ2D	2	
		DZ2E	2	
		DZ2F	2	
CD5		DZ6C	6	
		DZ6D	6	
		DZ6E	6	
		DZ6F	6	

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.



SIGNAL LOCATION 1:  
SR 43 (US 301) AT  
US 41 SB RAMP  
MP: 0.573  
SIGNAL ID: 416

REVISIONS				EREZ DAYAN, P.E. P.E. LICENSE NUMBER 62144 PATEL, GREENE & ASSOCIATES, PLLC 280 WEST CANTON AVENUE, SUITE 400 WINTER PARK, FL 32789 CERTIFICATE OF AUTHORIZATION 29562	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  T-20
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 43	MANATEE	438062-1-52-01	

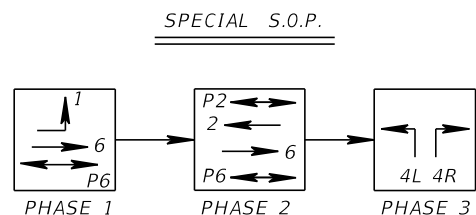
*SIGNAL TIMING PLAN (1)*

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

CONTROLLER OPERATION NOTES:

1. MAJOR STREET IS SR 43 (US 301), MOVEMENTS 2 AND 6 AND MINOR STREET IS US 41, OFF RAMP MOVEMENTS 4 AND 7.
2. SPECIAL SIGNAL OPERATING PLAN WITH THE FOLLOWING:
  - (A) REQUEST UPDATED SIGNAL TIMINGS FROM FDOT ARTERIAL MANAGEMENT SYSTEM ENGINEER (863-519-2746) 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 SIGNAL 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.
  - (B) CONCURRENT/ACTUATED PEDESTRIANS FOR MOVEMENTS 2 (P2) AND 6 (P6).
  - (C) WHEN SIGNAL IS IN FLASHING MODE, MOVEMENTS 2 AND 6 SHALL FLASH YELLOW, ALL OTHER VEHICLE MOVEMENTS SHALL FLASH RED.
3. PROGRAM PHASE RESTRICTIONS TO OMIT MOVEMENT 1 AND REDIRECT CALLS FROM MOVEMENT 1 TO MOVEMENT 6, WHEN MOVEMENT 2 IS GREEN.
4. THE CONTROLLER CABINET SHALL BE WIRED FOR SOP 10. THE CONTROLLER SHALL OPERATE THE SPECIAL SOP AS INDICATED.

CONTROLLER TIMINGS								
(CONTROLLER PHASE #) MOVEMENT NUMBER	1	2	3	4	5	6	7	8
DIRECTION	EBL	WB		NB		EB		
TURN TYPE		PROT/PERM						
MINIMUM GREEN	5	16		5		16		
EXTENSION	3.0	1.9		3.0		1.9		
YELLOW CLEARANCE	3.4	4.4		3.4		4.4		
ALL RED	2.0	2.0		3.0		2.5		
MAXIMUM GREEN 1								
MAXIMUM GREEN 2								
MAX LIMIT								
ADJUST BY								
PEDESTRIAN WALK		7				7		
PED. CLEARANCE		15				24		
DETECTOR MEMORY								
DET. CROSS SWITCH	ON							
DUAL ENTRY		ON				ON		
RECALL		ON				ON		



VIDEO DETECTOR CONFIGURATION CHART				
VIDEO DETECTOR	DETECTION ZONE (6' X 40')	DETECTION ZONE (6' X 6')	MOVEMENT	DELAY TIME (SEC)
CD1	DZ4L		4	
CD2	DZ4RA		4	
	DZ4RB		4	8 SEC
CD3	DZ1		1	
	DZ6A		6	
	DZ6B		6	
CD4	DZ2A		2	
	DZ2B		2	
MICROWAVE DETECTOR CONFIGURATION CHART				
CD5		DZ2C	2	
		DZ2D	2	
		DZ2E	2	
		DZ2F	2	
CD6		DZ6C	6	
		DZ6D	6	
		DZ6E	6	
		DZ6F	6	

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

SIGNAL LOCATION 2:  
SR 43 (US 301) AT  
US 41 NB RAMP  
MP: 0.690  
SIGNAL ID: 417

REVISIONS				EREZ DAYAN, P.E. P.E. LICENSE NUMBER 62144 PATEL, GREENE & ASSOCIATES, PLLC 280 WEST CANTON AVENUE, SUITE 400 WINTER PARK, FL 32789 CERTIFICATE OF AUTHORIZATION 29562	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  T-21
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 43	MANATEE	438062-1-52-01	

**SIGNAL TIMING PLAN (2)**

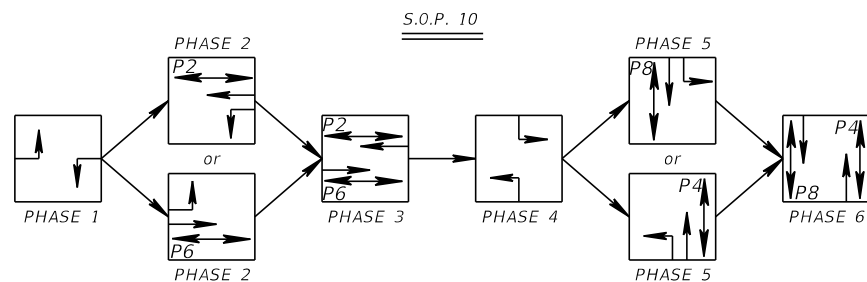
CONTROLLER OPERATION NOTES:

1. MAJOR STREET IS SR 43 (US 301), MOVEMENTS 2 AND 6 AND MINOR STREET IS WAL-MART DRIVEWAY/PALMETTO DRIVEWAY, MOVEMENTS 3, 4, 7 AND 8.
2. STANDARD SIGNAL OPERATING PLAN NO. 10 WITH THE FOLLOWING:
  - (A) REQUEST UPDATED SIGNAL TIMINGS FROM FDOT ARTERIAL MANAGEMENT SYSTEM ENGINEER (863-519-2746) 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 SIGNAL 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.
  - (B) CONCURRENT/ACTUATED PEDESTRIANS FOR MOVEMENTS 2 (P2), 6 (P6), 4 (P4), AND 8 (P8).
  - (C) WHEN SIGNAL IS IN FLASHING MODE, MOVEMENTS 2 AND 6 SHALL FLASH YELLOW, ALL OTHER VEHICLE MOVEMENTS SHALL FLASH RED.

CONTROLLER TIMINGS								
(CONTROLLER PHASE #) MOVEMENT NUMBER	1	2	3	4	5	6	7	8
DIRECTION	EBL	WB	SBL	SB	WBL	EB	NBL	NB
TURN TYPE	PROT		PROT/PERM		PROT		PROT/PERM	
MINIMUM GREEN	5	18	5	7	5	18	5	7
EXTENSION	3.0	2.0	3.0	3.0	3.0	2.0	3.0	3.0
YELLOW CLEARANCE	4.4	4.4	3.4	3.4	4.4	4.4	3.4	3.4
ALL RED	3.0	2.3	2.0	4.0	3.0	2.2	3.0	3.6
MAXIMUM GREEN 1								
MAXIMUM GREEN 2								
MAX LIMIT								
ADJUST BY								
PEDESTRIAN WALK		7		7	7		7	
PED. CLEARANCE		33		35	24		35	
DETECTOR MEMORY								
DET. CROSS SWITCH			ON				ON	
DUAL ENTRY		ON		ON	ON		ON	
RECALL		ON			ON		ON	

VIDEO DETECTOR CONFIGURATION CHART				
VIDEO DETECTOR	DETECTION ZONE (6' X 40')	DETECTION ZONE (6' X 6')	MOVEMENT	DELAY TIME (SEC)
CD1	DZ7		7	3 SEC
	DZ4		4	8 SEC
CD2	DZ1A		1	
	DZ1B		1	
	DZ6A		6	
	DZ6B		6	
CD3	DZ8		8	8 SEC
	DZ8		8	
	DZ3		3	3 SEC
CD4	DZ2A		2	
	DZ2B		2	
	DZ5		5	

MICROWAVE DETECTOR CONFIGURATION CHART				
VIDEO DETECTOR	DETECTION ZONE (6' X 40')	DETECTION ZONE (6' X 6')	MOVEMENT	DELAY TIME (SEC)
CD5		DZ2C	2	
		DZ2D	2	
		DZ2E	2	
		DZ2F	2	
CD6		DZ6C	6	
		DZ6D	6	
		DZ6E	6	
		DZ6F	6	



DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

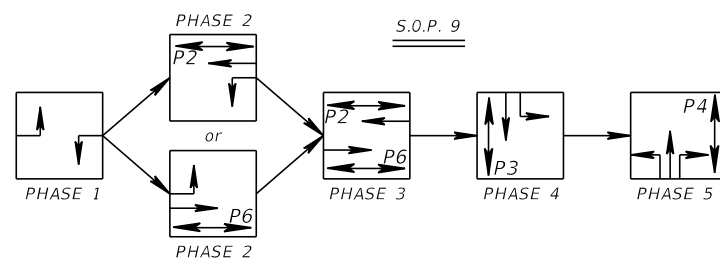
SIGNAL LOCATION 3:  
SR 43 (US 301) AT  
PALMETTO VILLAGE /  
WAL-MART  
MP: 0.840  
SIGNAL ID: 418

REVISIONS				EREZ DAYAN, P.E. P.E. LICENSE NUMBER 62144 PATEL, GREENE & ASSOCIATES, PLLC 280 WEST CANTON AVENUE, SUITE 400 WINTER PARK, FL 32789 CERTIFICATE OF AUTHORIZATION 29562	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNAL TIMING PLAN (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 43	MANATEE	438062-1-52-01		T-22

CONTROLLER OPERATION NOTES:

1. MAJOR STREET IS SR 43 (US 301), MOVEMENTS 2 AND 6 AND MINOR STREET ARE 12TH AVE, AND HABEN BLVD, MOVEMENTS 3 AND 4.
2. STANDARD SIGNAL OPERATING PLAN NO. 9 WITH THE FOLLOWING:
  - (A) REQUEST UPDATED SIGNAL TIMINGS FROM FDOT ARTERIAL MANAGEMENT SYSTEM ENGINEER (863-519-2746) 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 SIGNAL 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.
  - (B) CONCURRENT/ACTUATED PEDESTRIANS FOR MOVEMENTS 2 (P2), 4 (P4), 6 (P6), AND 8 (P8).
  - (C) WHEN SIGNAL IS IN FLASHING MODE, MOVEMENTS 2 AND 6 SHALL FLASH YELLOW, ALL OTHER VEHICLE MOVEMENTS SHALL FLASH RED.
3. PROGRAM MOVEMENT 4R, AS OVERLAP TO COME UP WITH MOVEMENT 4 WITH 3.9 SECONDS OF YELLOW AND 22.0 SECONDS OF ALL RED INTERVAL.
4. PROGRAM MOVEMENT 4R OVERLAP TO BE OMITTED WHEN MOVEMENT P4 IS ACTIVE.
5. THE CONTROLLER CABINET SHALL BE WIRED FOR SOP 10. THE CONTROLLER SHALL OPERATE THE SOPQ AS INDICATED.

CONTROLLER TIMINGS								
(CONTROLLER PHASE #) MOVEMENT NUMBER	1	2	3	4	5	6	7	8
DIRECTION	EBL	WB	SB	NB	WBL	EB		
TURN TYPE	PROT		SPLIT/LEAD		PROT			
MINIMUM GREEN	5	18	7	7	5	18		
EXTENSION	3.0	2.0	3.0	3.0	3.0	2.0		
YELLOW CLEARANCE	5.0	5.0	4.2	3.9	5.0	5.0		
ALL RED	3.0	2.1	2.1	2.9	3.0	2.1		
MAXIMUM GREEN 1								
MAXIMUM GREEN 2								
MAX LIMIT								
ADJUST BY								
PEDESTRIAN WALK		7		7		7		7
PED. CLEARANCE		16		25		21		28
DETECTOR MEMORY								
DET. CROSS SWITCH				ON				
DUAL ENTRY		ON		ON		ON		ON
RECALL		ON				ON		



VIDEO DETECTOR CONFIGURATION CHART				
VIDEO DETECTOR	DETECTION ZONE (6' X 40')	DETECTION ZONE (6' X 6')	MOVEMENT	DELAY TIME (SEC)
CD1	DZ4L		4	
	DZ4		4	
	DZ4R		4	8 SEC
CD2	DZ1		1	
	DZ6A		6	
	DZ6B		6	
CD3	DZ3		3	8 SEC
CD4	DZ2A		2	
	DZ2B		2	
	DZ5A		5	
	DZ5B		5	

MICROWAVE DETECTOR CONFIGURATION CHART				
VIDEO DETECTOR	DETECTION ZONE (6' X 40')	DETECTION ZONE (6' X 6')	MOVEMENT	DELAY TIME (SEC)
CD5		DZ2C	2	
		DZ2D	2	
		DZ2E	2	
		DZ2F	2	
CD6		DZ6C	6	
		DZ6D	6	
		DZ6E	6	
		DZ6F	6	

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

SIGNAL LOCATION 4:  
SR 43 (US 301) AT  
HABEN BLVD.  
MP: 1.256  
SIGNAL ID: 419

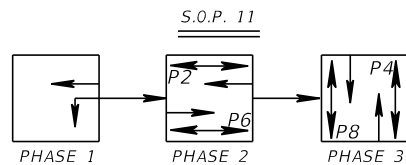
REVISIONS				EREZ DAYAN, P.E. P.E. LICENSE NUMBER 62144 PATEL, GREENE & ASSOCIATES, PLLC 280 WEST CANTON AVENUE, SUITE 400 WINTER PARK, FL 32789 CERTIFICATE OF AUTHORIZATION 29562	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNAL TIMING PLAN (4)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 43	MANATEE	438062-1-52-01		T-23

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

CONTROLLER OPERATION NOTES:

1. MAJOR STREET IS SR 43 (US 301), MOVEMENTS 2 AND 6 AND MINOR STREETS ARE HARLLEE PACKING AND FELD WAY, MOVEMENTS 4 AND 8.
2. STANDARD SIGNAL OPERATING PLAN NO. 11 WITH THE FOLLOWING:
  - (A) REQUEST UPDATED SIGNAL TIMINGS FROM FDOT ARTERIAL MANAGEMENT SYSTEM ENGINEER (863-519-2746) 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 SIGNAL 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.
  - (B) CONCURRENT/ACTUATED PEDESTRIANS FOR MOVEMENTS 2 (P2), 4 (P4), 6 (P6), AND 8 (P8).
  - (C) WHEN SIGNAL IS IN FLASHING MODE, MOVEMENTS 2 AND 6 SHALL FLASH YELLOW, ALL OTHER VEHICLE MOVEMENTS SHALL FLASH RED.
3. PROGRAM PHASE RESTRICTIONS TO REDIRECT CALLS FROM MOVEMENT 1 TO MOVEMENT 6, WHEN MOVEMENT 2 IS GREEN AND TO OMIT MOVEMENT 5 AND REDIRECT CALLS FROM MOVEMENT 5 TO MOVEMENT 2, WHEN MOVEMENT 6 IS GREEN.

CONTROLLER TIMINGS								
(CONTROLLER PHASE #) MOVEMENT NUMBER	1	2	3	4	5	6	7	8
DIRECTION		WB		NB	WBL	EB		SB
TURN TYPE					PROT/PERM			
MINIMUM GREEN		18		7	5	18		7
EXTENSION		2.0		3.0	3.0	2.0		3.0
YELLOW CLEARANCE		4.9		3.8	4.9	4.9		3.5
ALL RED		2.0		2.5	3.0	2.0		3.2
MAXIMUM GREEN 1								
MAXIMUM GREEN 2								
MAX LIMIT								
ADJUST BY								
PEDESTRIAN WALK		7		7		7		7
PED. CLEARANCE		22		32		22		32
DETECTOR MEMORY								
DET. CROSS SWITCH					ON			
DUAL ENTRY		ON		ON		ON		ON
RECALL		ON				ON		



VIDEO DETECTOR CONFIGURATION CHART				
VIDEO DETECTOR	DETECTION ZONE (6' X 40')	DETECTION ZONE (6' X 6')	MOVEMENT	DELAY TIME (SEC)
CD1	DZ4		4	3 SEC
	DZ4R		4	8 SEC
CD2	DZ1		6	
	DZ6A		6	
	DZ6B			
CD3	DZ8L		8	3 SEC
	DZ8		8	8 SEC
CD4	DZ2A		2	
	DZ2B		2	
	DZ5		5	

MICROWAVE DETECTOR CONFIGURATION CHART				
VIDEO DETECTOR	DETECTION ZONE (6' X 40')	DETECTION ZONE (6' X 6')	MOVEMENT	DELAY TIME (SEC)
CD5		DZ2C	2	
		DZ2D	2	
		DZ2E	2	
		DZ2F	2	
CD6		DZ6C	6	
		DZ6D	6	
		DZ6E	6	
		DZ6F	6	

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

SIGNAL LOCATION 5:  
SR 43 (US 301) AT  
HARLLEE PACKING /  
FELD WAY  
MP: 1.910  
SIGNAL ID: 420

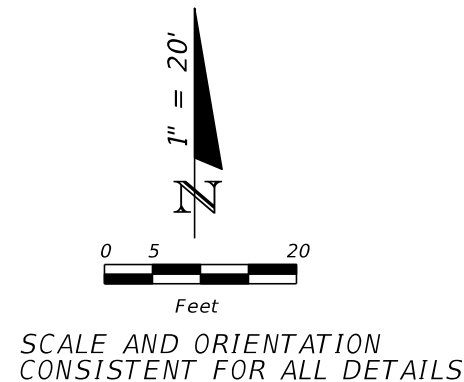
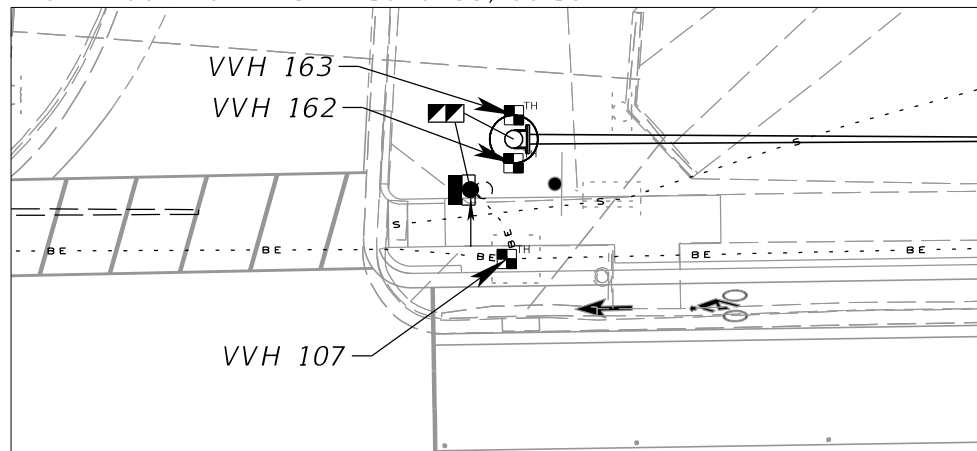
REVISIONS				EREZ DAYAN, P.E. P.E. LICENSE NUMBER 62144 PATEL, GREENE & ASSOCIATES, PLLC 280 WEST CANTON AVENUE, SUITE 400 WINTER PARK, FL 32789 CERTIFICATE OF AUTHORIZATION 29562	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<b>SIGNAL TIMING PLAN (5)</b>	SHEET NO.  T-24
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 43	MANATEE	438062-1-52-01		





2-1

POLE LOCATION = STA. 1046+53, 60.16' LT

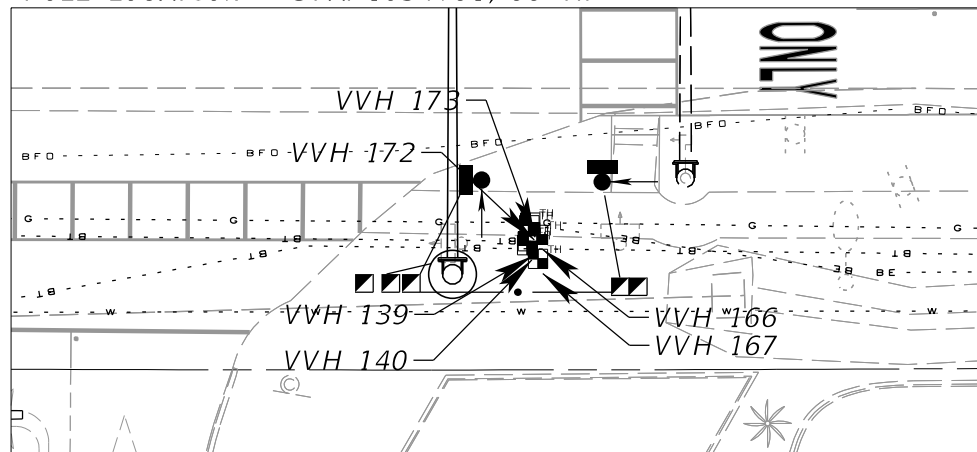


**SUMMARY OF VERIFIED UTILITY INVESTIGATION**

Vvh #	UTILITY DESCRIPTION	OWNER	SIZE	MATERIALS	B and/or C			EXISTING GROUND ELEVATION (ft.)	UTILITY COVER (ft.)	TOP ELEVATION (ft.)	COMMENTS
					STATION	OFFSET	LT/RT				
VVH107	TRAFFIC SIGNAL	MANATEE COUNTY	2" (x2/3)	PVC	1046+52.69	47.69'	LT	9.49	1.00	8.49	IN WIRING PULL BOX
VVH162	BOTTOM OF EXCAVATION - EXPLORATORY		N/A	N/A	1046+53.31	57.66'	LT	9.51	8.00	1.51	NO UTILITIES FOUND, JET PROBE TO 8'
VVH163	BOTTOM OF EXCAVATION - EXPLORATORY		N/A	N/A	1046+53.31	62.66'	LT	9.53	8.00	1.53	NO UTILITIES FOUND, JET PROBE TO 8'

3-2

POLE LOCATION = STA. 1054+61, 66' RT



**SUMMARY OF VERIFIED UTILITY INVESTIGATION**

Vvh #	UTILITY DESCRIPTION	OWNER	SIZE	MATERIALS	B and/or C			EXISTING GROUND ELEVATION (ft.)	UTILITY COVER (ft.)	TOP ELEVATION (ft.)	COMMENTS
					STATION	OFFSET	LT/RT				
VVH139	BOTTOM OF EXCAVATION - EXPLORATORY		N/A	N/A	1063+90.00	53.63'	RT	8.31	4.00	4.31	NO UTILITIES FOUND, CAPROCK @ 4'
VVH140	BOTTOM OF EXCAVATION - EXPLORATORY		N/A	N/A	1063+90.00	59.43'	RT	8.05	4.50	3.55	NO UTILITIES FOUND, CAPROCK @ 4.5'
VVH166	BOTTOM OF EXCAVATION - EXPLORATORY		N/A	N/A	1054+60.97	62.46'	RT	9.68	5.50	4.18	NO UTILITIES FOUND, CAPROCK @ 5.5'
VVH167	BOTTOM OF EXCAVATION - EXPLORATORY		N/A	N/A	1054+60.97	64.96'	RT	9.61	5.50	4.11	NO UTILITIES FOUND, CAPROCK @ 5.5'
VVH172	TRAFFIC SIGNAL	MANATEE COUNTY	2"	PVC	1054+60.09	61.45'	RT	9.32	1.92	7.40	
VVH173	GAS MAIN	TECO PEOPLES GAS	6"	STEEL	1054+60.15	61.18'	RT	9.25	3.54	5.71	

<p>REVISIONS</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>EREZ DAYAN, P.E. P.E. LICENSE NUMBER 62144 PATEL, GREENE &amp; ASSOCIATES, PLLC 280 WEST CANTON AVENUE, SUITE 400 WINTER PARK, FL 32789 CERTIFICATE OF AUTHORIZATION 29562</p>			<p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p> <table border="1"> <thead> <tr> <th>ROAD NO.</th> <th>COUNTY</th> <th>FINANCIAL PROJECT ID</th> </tr> </thead> <tbody> <tr> <td>SR 43</td> <td>MANATEE</td> <td>438062-1-52-01</td> </tr> </tbody> </table>			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	SR 43	MANATEE	438062-1-52-01	<p><b>SUBSURFACE UTILITY DATA DETAILS</b></p>		<p>SHEET NO. T-27</p>
DATE	DESCRIPTION	DATE	DESCRIPTION																							
ROAD NO.	COUNTY	FINANCIAL PROJECT ID																								
SR 43	MANATEE	438062-1-52-01																								

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

STANDARD MAST ARM ASSEMBLIES DATA TABLE										Table Date 11-01-16	
STRUCTURE ID NUMBERS	DESIGNATION	FIRST ARM		SECOND ARM		UF (deg)	LL (deg)	POLE			DRILLED SHAFT ID
		ARM ID	FAA (ft.)	ARM ID	SAA (ft.)			POLE ID	UAA (ft.)	UB (ft.)	
POLE 2-1	A70/S-P5/S-DS/16/5.0	A70/S						P5/S			DS/16/5.0
POLE 3-2	A78/S-P6/S-DS/18/5.0	A78/S						P6/S			DS/18/5.0

NOTES [Notes Date 11-01-16]:

1. If an entry appears in column FAA, a shorter arm is required. This is obtained by removing length from the arm tip and the arm length shortened from FA to FAA. SAA Similar.
2. If an entry appears in column UAA, a shorter pole is required. This is obtained by removing length from the pole tip and the pole height shortened from UA to UAA.
3. Arm mounting height UB must be between 18-22 feet.
4. Pole types P2 and larger require a minimum 4.5 foot diameter drilled shaft. Pole types P5 and larger require a minimum 5.0 foot diameter drilled shaft.
5. Work this sheet with the Signal Designer's "Mast Arm Tabulation". See "Mast Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement, and pedestrian features.
6. Work with Index 649-030 and 649-031.

REVISIONS						STRUCTURES DESIGN OFFICE DISTRICT 1 801 N. BROADWAY BARTOW, FLORIDA 33850-1249 QUAN-YANG YAO PE NO. 52847	DRAWN BY: QYY 07/18 CHECKED BY: QW 07/18 DESIGNED BY: QYY 07/18 CHECKED BY: QW 07/18	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: STANDARD MAST ARM DATA TABLE	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							SR 43	MANATEE	438062-1-52-01	SR 43 (US 301) AT US 41 AND PALMETTO VILLAGE	T-28	

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

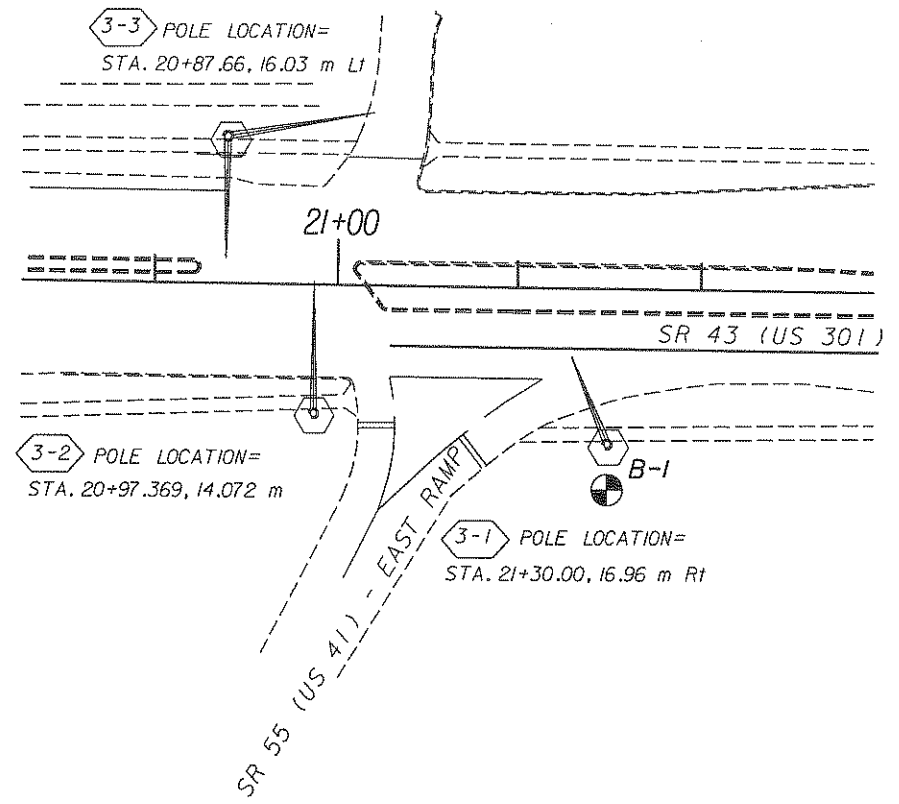












**LOCATION**  
 TOWNSHIP - 34S  
 RANGE - 17E  
 SECTION - 13

NOT TO SCALE

RECOMMENDED DESIGN PARAMETERS FOR SIGNAL POLE 3-1, 3-2 AND 3-3

Elevation (meters)	Submerged Unit Wt. kN/m <sup>3</sup>	Total Unit Wt. kN/m <sup>3</sup>	Angle of Internal Friction (degrees)	Cohesion (KPa)
3.35 to 2.35	6.7	16.5	29	-----
2.35 to -0.65	9.0	18.8	-----	100
-0.65 to -7.11	9.8	19.6	-----	200

Submerged unit weight should be used below the water table.

LEGEND :

- = SM, Silty sands, poorly graded sand-silt mixtures.
- = SC, Clayey sands, poorly graded sand-clay mixtures.
- = MH, Inorganic silts micaceous or diatomaceous fine sandy or silty soils, elastic silts.

NOTES :

- Numbers to the left of borings indicate SPT values for 300 mm penetration. (Unless otherwise noted.)
- 50/90 = Number of blows for 90 mm of penetration.
- = Water Table
- = Signal Pole Location
- = Boring Location
- Type Rig = CME 75
- Hammer Used = AUTOMATIC
- All Elevations based on BM \* 203

ASSUMED ENVIRONMENTAL CLASSIFICATION

- Substructure : Extremely Aggressive
- Superstructure : Extremely Aggressive

BENCHMARK LOCATION DESCRIPTION

25.8 m north of the edge of pavement of US 301; 12.5 m west of the edge of pavement; 3.3 m south of a hedge; 21.2 m N 19° E of a concrete traffic light pole.  
 Station 23+34.9, 37.4 m Left.

BENCHMARK DESCRIPTION

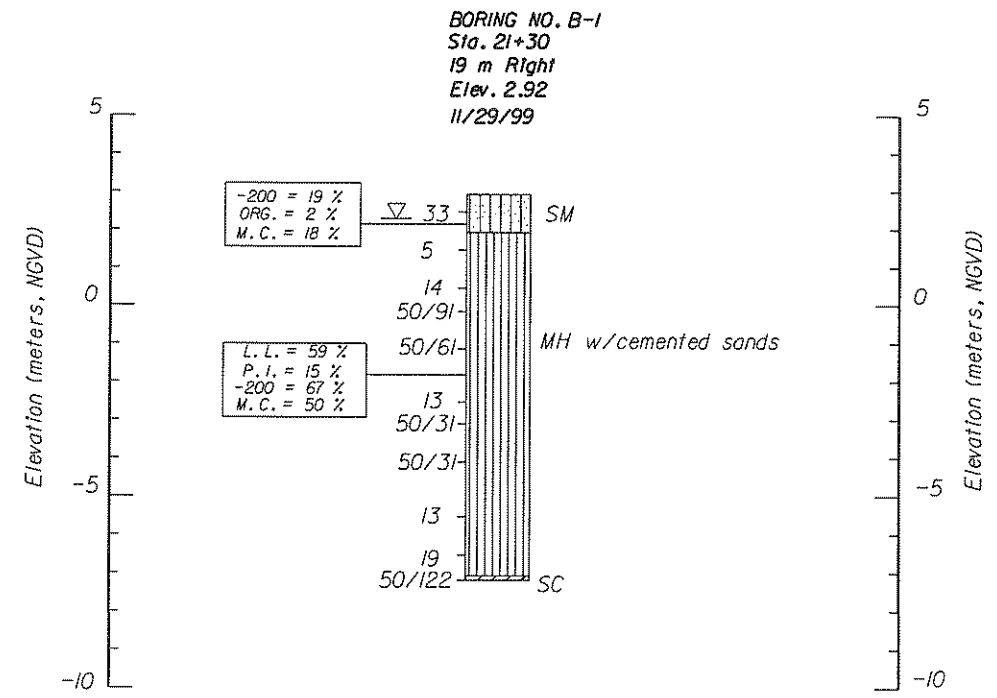
Standard F.D.O.T. Concrete Monument with brass disk.

GRANULAR MATERIALS-  
RELATIVE DENSITY

RELATIVE DENSITY	SPT (BLOWS/300 mm)
Very Loose	Less than 4
Loose	4 - 10
Medium or CoKPack	10 - 30
Dense	30 - 50
Very Dense	Greater than 50

SILTS AND CLAYS-  
CONSISTENCY

CONSISTENCY	SPT (BLOWS/300 mm)
Very Soft	Less than 2
Soft	2 - 4
Firm	4 - 8
Stiff	8 - 15
Very Stiff	15 - 30
Hard	Greater than 30

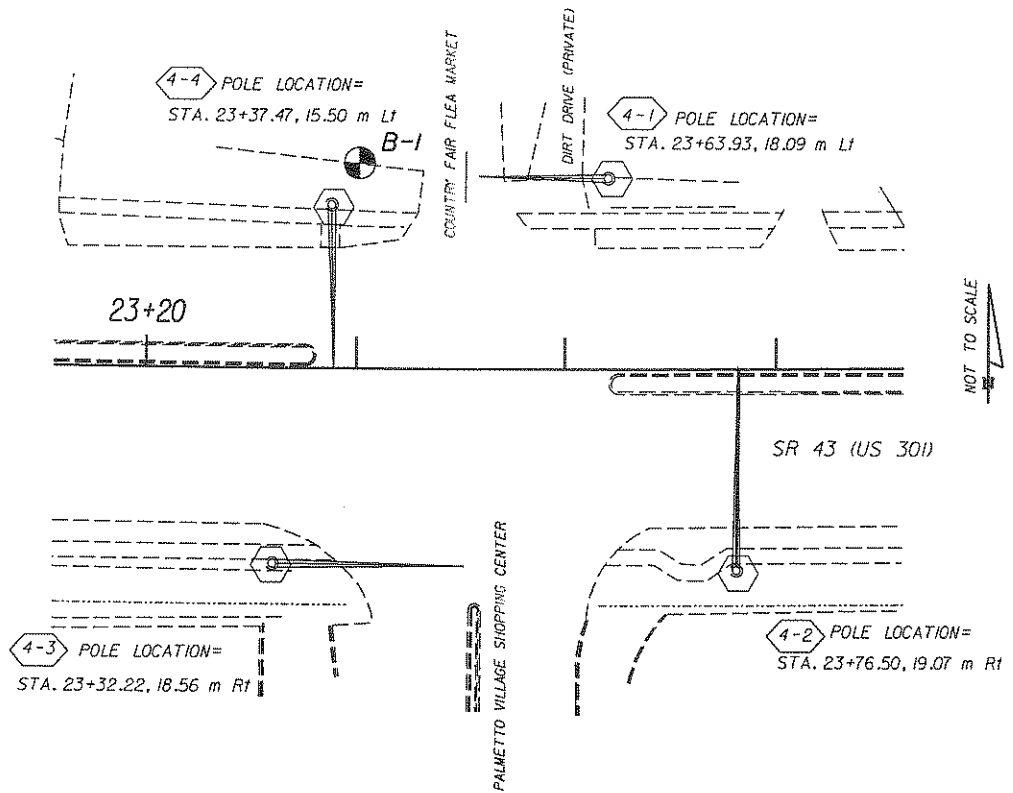


FOR INFORMATION ONLY  
 FPID NO. 438062-1-52-01  
 T-34

20 DEC 1999 C:\proj\prolects\130201501\rcbsignal.dgn

REVISIONS				Drawn by		Checked by		Designed by		Checked by		Approved by		ENGINEER OF RECORD:		LOGO:		SEAL:		FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE:		Drawing No.	
Date	By	Description	Date	By	Description	Date	By	Description	Date	By	Description	Date	By	Description	MATERIALS OFFICE		MATERIALS OFFICE		MATERIALS OFFICE		REPORT OF CORE BORING SIGNAL				
															DISTRICT 1		43		Manatee		SR 43 (US 301) @ SR 55 (US 41)				
															Barlow, Florida 33830-1249		13020-3501		East Ramp (Location Number 3)		Index No.				

LT 51' 10.00" RC 33' 53.71"



**LOCATION**  
 TOWNSHIP - 34S  
 RANGE - 17E  
 SECTION - 13

RECOMMENDED DESIGN PARAMETERS FOR SIGNAL POLE 4-1, 4-2 4-3 AND 4-4

Elevation (meters)	Submerged Unit Wt. (kN/m <sup>3</sup> )	Total Unit Wt. (kN/m <sup>3</sup> )	Angle of Internal Friction (degrees)	Cohesion (KPa)
1.69 to 0.69	7.5	17.3	30	-----
0.69 to -7.40	9.8	19.6	-----	200

Submerged unit weight should be used below the water table.

**LEGEND :**

- = SM, Silty sands, poorly graded sand-silt mixtures.
- = SC, Clayey sands, poorly graded sand-clay mixtures.
- = MH, Inorganic silts micaceous or diatomaceous fine sandy or silty silts, elastic silts.
- = ML, Inorganic silts and very fine sands, rock flour, silty or clayey fine sands with slight plasticity.

**NOTES :**

- Numbers to the left of borings indicate SPT values for 300 mm penetration. (Unless otherwise noted.)
- 50/90 = Number of blows for 90 mm of penetration.
- = Water Table
- = Signal Pole Location
- = Boring Location
- Type Rig = CME 75
- Hammer Used = AUTOMATIC
- All Elevations based on BM \* 203

**ASSUMED ENVIRONMENTAL CLASSIFICATION**

Substructure : Extremely Aggressive  
 Superstructure : Extremely Aggressive

**BENCHMARK LOCATION**

25.8 m north of the edge of pavement of US 301; 12.5 m west of the edge of pavement; 3.3 m south of a hedge; 21.2 m N 19° E of a concrete traffic light pole.  
 Station 23+34.9, 37.4 m Left.

**BENCHMARK DESCRIPTION**

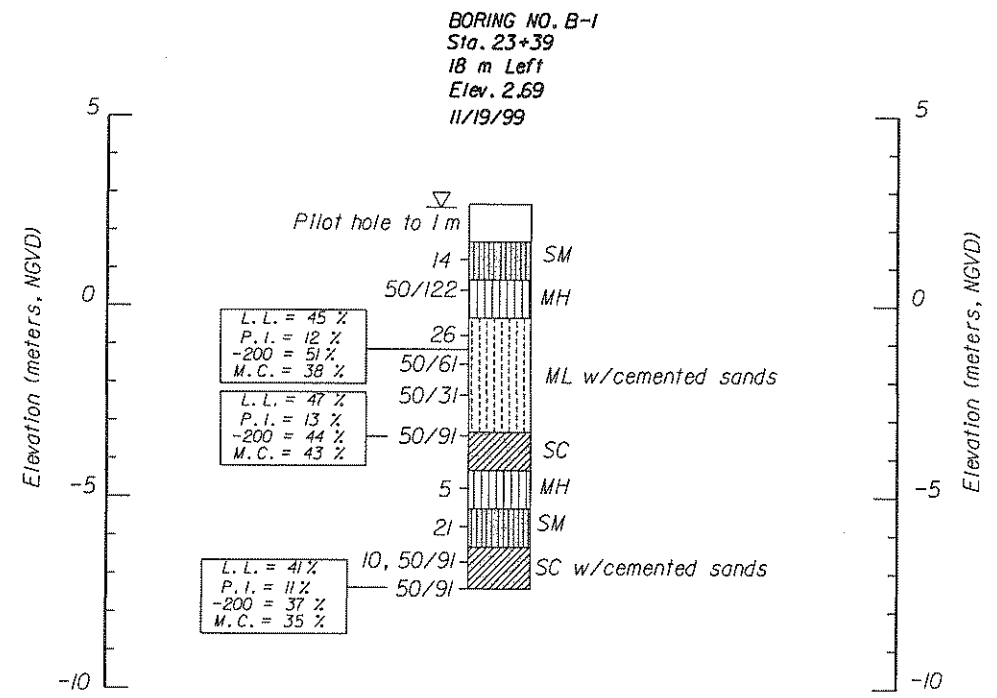
Standard F.D.T. Concrete Monument with brass disk.

**GRANULAR MATERIALS-RELATIVE DENSITY**

RELATIVE DENSITY	SPT (BLOWS/300 mm)
Very Loose	Less than 4
Loose	4 - 10
Medium or CoKPack	10 - 30
Dense	30 - 50
Very Dense	Greater than 50

**SILTS AND CLAYS-CONSISTENCY**

CONSISTENCY	SPT (BLOWS/300 mm)
Very Soft	Less than 2
Soft	2 - 4
Firm	4 - 8
Stiff	8 - 15
Very Stiff	15 - 30
Hard	Greater than 30



**FOR INFORMATION ONLY**  
 FPID NO. 438062-1-52-01  
 T-35

<b>REVISIONS</b>				Drawn by: MJB 12/99 Checked by: MLP 12/99 Designed by: Checked by: Approved by: T.N. Puckett, P.E.		<b>ENGINEER OF RECORD:</b> <b>MATERIALS OFFICE</b> DISTRICT 1 801 N. Broadway Bartow, Florida 33830-1249		ROAD NO. 43 COUNTY Manatee PROJECT NO. 13020-3501		<b>FLORIDA DEPARTMENT OF TRANSPORTATION</b> <b>MATERIALS OFFICE</b>		SHEET TITLE: <b>REPORT OF CORE BORING SIGNAL</b>		Drawing No.	
										PROJECT NAME: <b>SR 43 (US 301) @ Palmetto Village Shopping Center (Location Number 4)</b>				Index No.	

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