

**CONTRACT PLANS COMPONENTS**

ROADWAY  
SIGNING AND PAVEMENT MARKING  
LIGHTING  
SIGNALIZATION

STATE OF FLORIDA  
**DEPARTMENT OF TRANSPORTATION**

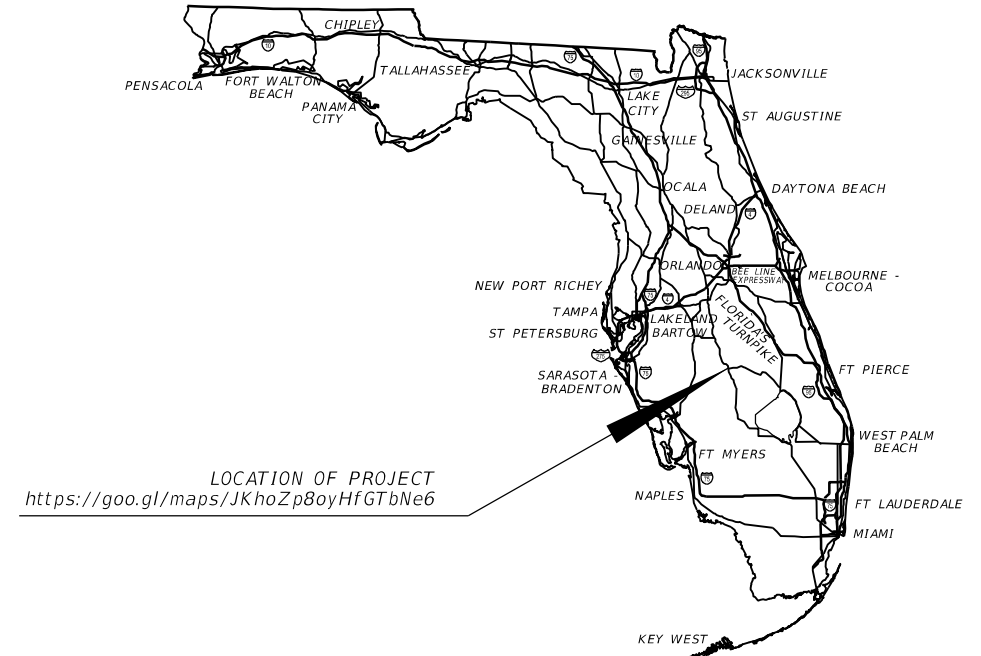
**SIGNALIZATION PLANS**

FINANCIAL PROJECT ID 439750-2-52-01

HIGHLANDS COUNTY (09010000 & 09030000)

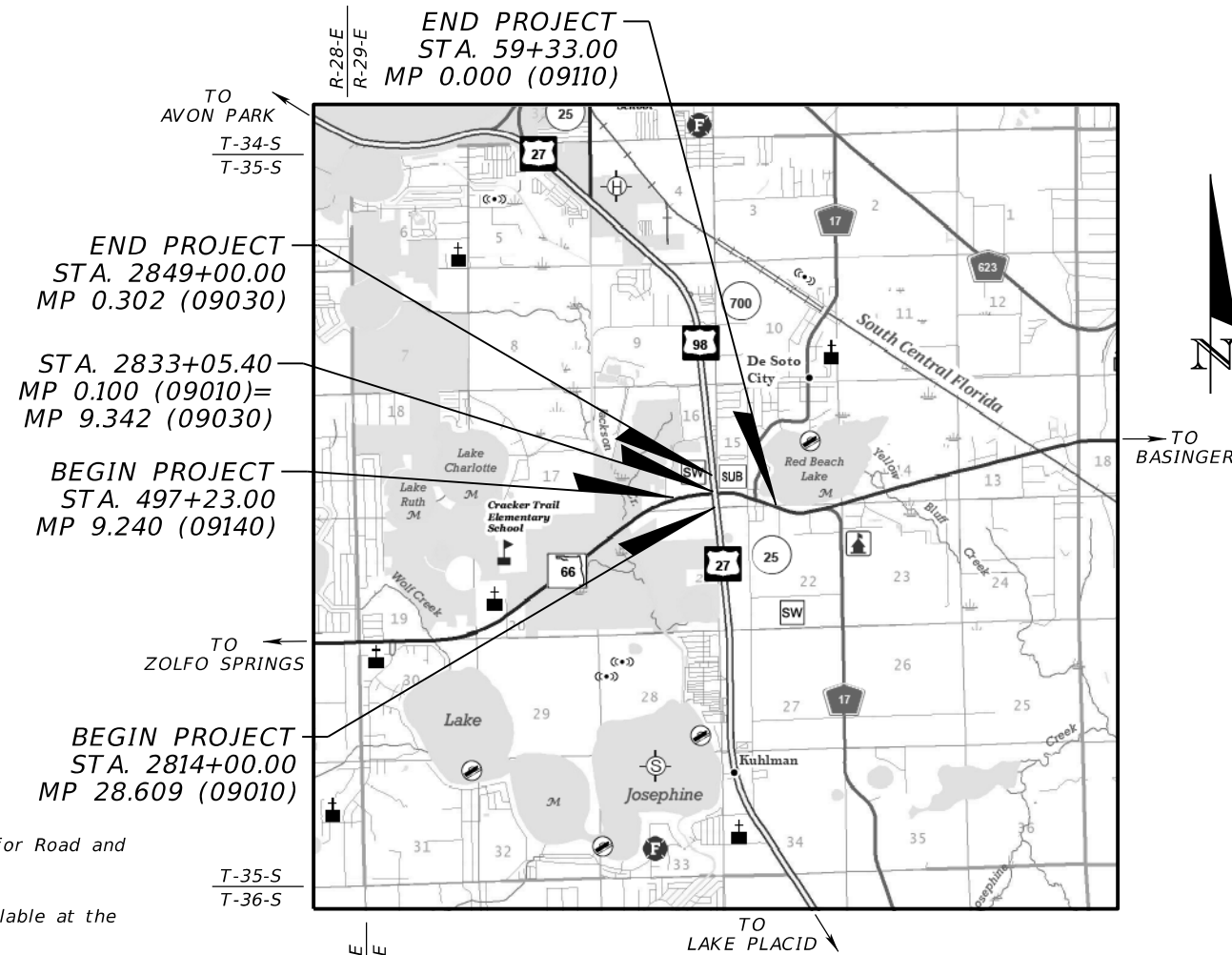
STATE ROAD NO. 25 (US 27)

FROM SOUTH OF SR 66 TO NORTH OF SR 66



**INDEX OF SIGNALIZATION PLANS**

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	GENERAL NOTES SHEET
T-4 TO T-6	SIGNALIZATION PLAN
T-7	GUIDE SIGN WORKSHEET
T-8	STANDARD MAST ARM TABULATION
T-9	MAST ARM ASSEMBLIES DATA TABLE
GT-1	REPORT OF CORE BORING SHEETS



PHASE IV SUBMITTAL  
APRIL 2026

SIGNALIZATION PLANS  
ENGINEER OF RECORD:

GERALDO JOSE SANCHEZ, P.E.  
P.E. LICENSE NUMBER 74538  
PATEL GREENE AND ASSOCIATES, LLC  
200 E ROBINSON ST., SUITE 300  
ORLANDO, FL 32801  
(407) 720-7420  
CONTRACT NO.: C9Y78  
VENDOR NO.: F452209743/43-001

FDOT PROJECT MANAGER:

JENNIFER FREEMAN

**GOVERNING STANDARD PLANS:**

Florida Department of Transportation, FY2026-27 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>

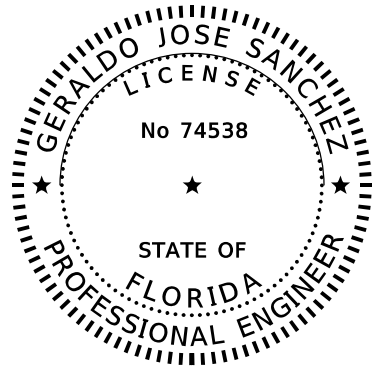
Standard Plans for Bridge Construction are included in the Structures Plans Component

**GOVERNING STANDARD SPECIFICATIONS:**

Florida Department of Transportation, FY 2026-27 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T1947	27	T-1

THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY



ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES.

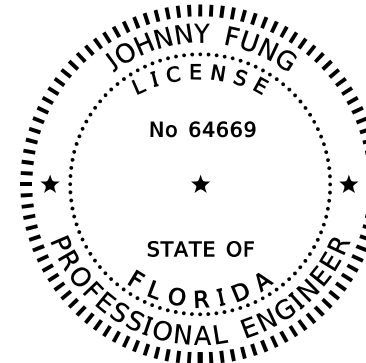
PATEL GREENE AND ASSOCIATES, LLC  
200 E ROBINSON ST., SUITE 300  
ORLANDO, FL 32801  
GERALDO JOSE SANCHEZ, P.E. NO. 74538

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

SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	GENERAL NOTES
T-4 TO T-6	SIGNALIZATION PLANS
T-7	GUIDE SIGN WORKSHEET
T-8	STANDARD MAST ARM TABULATION

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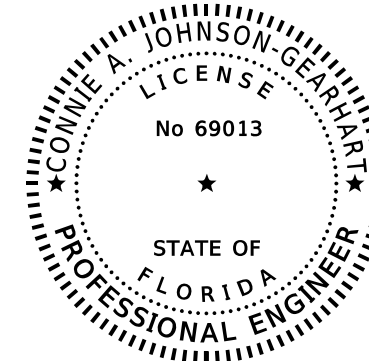
PATEL, GREENE AND ASSOCIATES, LLC  
12570 TELECOM DRIVE  
TEMPLE TERRACE, FL 33673  
JOHNNY FUNG, P.E. NO. 64669

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

SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
T-9	MAST ARM ASSEMBLIES DATA TABLES

THIS ITEM HAS BEEN DIGITALLY  
SIGNED AND SEALED BY



ON THE DATE ADJACENT TO THE SEAL

SIGNATURE MUST BE VERIFIED  
ON ANY ELECTRONIC COPIES.

TEST LAB, INC.  
4112 WEST OSBORNE AVENUE  
TAMPA, FL 33614  
CONNIE A. JOHNSON-GEARHART, P.E. NO. 69013

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

SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-2	SIGNATURE SHEET
GT-1	REPORT OF CORE BORING SHEETS

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REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	GERALDO J. SANCHEZ, P.E. LICENSE NUMBER 74538 PATEL, GREENE & ASSOCIATES, LLC 200 E ROBINSON ST., SUITE 300 ORLANDO, FL 32801		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						SR 25	HIGHLANDS	439750-2-52-01	

*SIGNATURE SHEET*

T-2

**GENERAL NOTES**

**PAY ITEM FOOTNOTES**

1. WHERE STRAIN POLES, OR ANY OTHER SIGNAL EQUIPMENT REQUIRING FOUNDATIONS ARE PROPOSED WITHIN 4 FEET OF ANY UNDERGROUND UTILITY, LOCATE AND PROTECT THE UTILITY. HAND DIG THE INITIAL 5 FEET OF THE SHAFT INSTALLATION.
2. SIGNAL MAINTAINING AGENCY: HIGHLANDS COUNTY
3. FOR REMOVED SIGNAL EQUIPMENT CLAIMED BY MAINTAINING AGENCY, CONTACT HIGHLANDS COUNTY.
4. PAVEMENT MARKINGS ARE SHOWN FOR REFERENCE PURPOSES ONLY. FOR PAVEMENT MARKING DESIGN INFORMATION, SEE PAVEMENT MARKING PLANS.
4. DUKE ENERGY POWER COMPANY TO ASSIST IN PERFORMING ALL NECESSARY WORK UNDER THEIR POWER LINES. NOTIFY THE POWER COMPANY AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO INSTALLATION OF THIS EQUIPMENT. PH: 800-636-0581
6. AT LEAST TWO (2) FULL BUSINESS DAYS PRIOR TO BEGINNING THE TRAFFIC SIGNAL INSTALLATION, CONTACT THE TRAFFIC SIGNAL INSPECTOR/LIAISON:  
  
 HIGHLANDS AND OKEECHOBEE COUNTY  
 CLIFF MINGUS  
 FLORIDA DEPARTMENT OF TRANSPORTATION  
 HEARTLAND OPERATIONS CENTER - SEBRING  
 4722 KENILWORTH BLVD.  
 SEBRING, FL 33870  
 PH: 863-471-4861 CELL: 963-991-3549  
 RESIDENT UTILITY COORDINATOR
7. AT THE COMPLETION OF THE PROJECT, PROVIDE 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  
 EMAIL: NEAL.TURNER@DOT.STATE.FL.US  
 PHONE: 863-519-2216
8. CONTACT HIGHLANDS COUNTY SHERIFF'S OFFICE WHEN REMOVING EXISTING STEEL STRAIN POLES TO COORDINATE THE SHERIFF'S DEPARTMENT RELOCATION OF THE EXISTING LICENSE PLATE READING EQUIPMENT.  
  
 400 SOUTH EUCALYPTUS ST.  
 SEBRING, FL 33870  
 PH: 863-402-7322
9. COORDINATE WITH DISTRICT IT WHEN ORDERING THE CELLULAR MODEM ASSEMBLY. THIS COORDINATION CAN BE COMPLETED THROUGH EMAIL AT DITS.ITSTAFF@DOT.STATE.FL.US. ONCE CELLULAR MODEM ASSEMBLY HAS BEEN RECEIVED, ALLOW THREE (3) WEEKS FOR CONFIGURATION AND TESTING. ONCE COMPLETED, THE CELLULAR MODEM ASSEMBLY WILL BE RETURNED TO THE CONTRACTOR FOR FINAL INSTALLATION AND TESTING.
10. LUMP SUM NON-BID PAY ITEM 639-8-, CONTRIBUTION-IN-AID-OF-CONSTRUCTION (CIAC) IS INCLUDED WITH THIS CONTRACT. CONTACT DUKE ENERGY NEW CONSTRUCTION AT 866- 372-4663 MINIMUM OF 8-10 WEEKS BEFORE POWER NEED DATE.

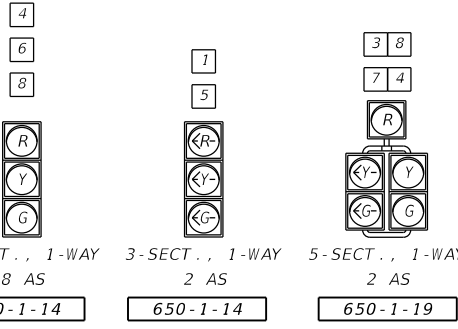
1. 632-7-1:  
 VERIFY THE COLOR CODE OF SIGNAL CABLE WITH THE MAINTAINING AGENCY PRIOR TO ORDERING.
2. 635-2-II:  
 PULL BOXES ARE TO BE PLACED BEHIND CURB AND GUTTER. IF THERE IS NO CURB AND GUTTER, PULL BOXES SHALL BE PLACED A MINIMUM OF 7' FROM THE EDGE OF PAVEMENT.  
 USE POLYMER CONCRETE CONSTRUCTION PULL BOXES WITH POLYMER CONCRETE COVERS.
3. 639-1-122:  
 USE ALUMINUM RIGID ABOVEGROUND CONDUIT FOR ELECTRICAL POWER SERVICE.
4. 641-2-12:  
 PROVIDE TYPE P-II 36' SERVICE POLE.
5. 649-21-15 & 649-21-21:  
 MAST ARM POLE FOUNDATIONS SHALL HAVE THREE 2" CONDUITS AND ONE 3/4" CONDUIT.  
 ALL MAST ARM ASSEMBLIES SHALL HAVE A TERMINAL COMPARTMENT
6. 650-1-14 & 650-1-19:  
 USE LOUVERED ALUMINUM SIGNAL HEAD BACK PLATES  
 MOUNT LAW ENFORCEMENT CONFIRMATION LIGHTS ON THE BOTTOM OF SIGNAL HEADS FOR MAIN STREET MOVEMENTS 2 & 6.
7. 660-4-11 & 660-4-12:  
 USE MIOVISION MODEL NA-MIO-CTM-DCM-V, APL #660-015-047. EACH ABOVE GROUND VIDEO DETECTION UNIT INCLUDES ONE SMARTVIEW 360° CAMERA AND ONE SMART VIEW APPROACH CAMERA.
8. 670-5-161:  
 USE CONCRETE FOR CONTROLLER STEPS AS REQUIRED.  
 PLACE BASE OF CONTROLLER THE SAME ELEVATION AS THE HIGHEST ELEVATION OF THE INTERSECTION ROADWAY OR GREATER.  
 PROVIDE CONCRETE CONTROLLER CABINET BASES POURED IN PLACE.  
 USE A MCCAIN, TS2 TYPE 2 FURNISHED BY TRANSPORTATION CONTROL SYSTEMS, APL #671-029-013, CABINET APL #676-034-003. PROVIDE ONLY CONTROLLER EQUIPMENT COMPATIBLE WITH HIGHLANDS COUNTY'S EXISTING CLOSED LOOP COMPUTER SYSTEM. CONTACT MAINTAINING AGENCY PRIOR TO ORDERING CONTROLLER ASSEMBLY TO CONFIRM EQUIPMENT COMPATIBILITY.
9. 685-1-13:  
 INCLUDE AN UNINTERRUPTIBLE POWER SUPPLY UNIT (UPS MEYERS TYPE BACKUP BATTERY SYSTEM APL #685-002-020. PIGGY BACK TYPE, NO CONCRETE BASE MOUNTS). INSTALL UPS UNIT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. UPS EQUIPMENT TO BE COMPATIBLE WITH MAINTAINING AGENCY'S EXISTING SYSTEM.
10. 700-5-22:  
 PROVIDE DOUBLE SIDED INTERNALLY ILLUMINATED SIGNS WITH BORDERS AND ALL UPPERCASE LETTERING WITH POLE MOUNTED BRACKET ARMS.

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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.

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				GENERAL NOTES		
				ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
				GERALDO J. SANCHEZ, P.E. LICENSE NUMBER 74538 PATEL, GREENE & ASSOCIATES, LLC 200 E ROBINSON ST., SUITE 300 ORLANDO, FL 32801	SR 25	HIGHLANDS	439750-2-52-01	T-3	

**SIGNAL HEAD DETAILS**



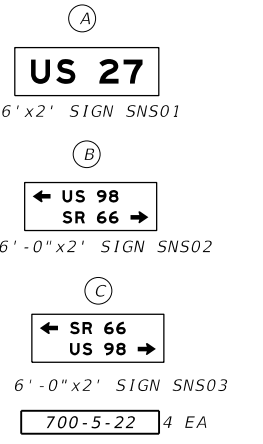
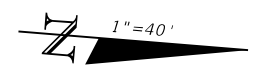
4 RUNS:  
1 SIGNAL CABLE  
1 INT. ILL. SIGN  
2 SPARES  
24 LF 630-2-11  
1 EA 649-21-15  
POLE LOCATION=  
STA. 2832+32.84  
116.16' LT

6 RUNS:  
1 SIGNAL CABLE  
1 INT. ILL. SIGN  
1 POWER SERVICE  
1 VIDEO DETECTION  
2 SPARES  
10 LF 630-2-11  
3 EA 635-2-11  
1 PI 632-7-1  
10 LF 639-2-1  
1 EA 660-4-11  
1 AS 670-5-161  
1 EA 684-1-1  
1 EA 684-8-1  
1 EA 685-1-13

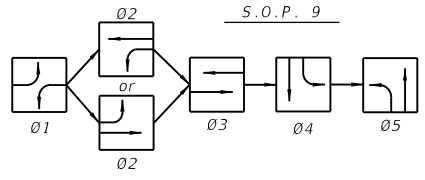
1 RUN:  
1 POWER SERVICE  
85 LF 630-2-11  
1 AS 639-1-122  
85 LF 639-2-1  
1 EA 641-2-12

6 RUNS:  
1 SIGNAL CABLE  
1 INT. ILL. SIGN  
3 SPARES  
1 LIGHTING  
140 LF 630-2-12  
134 LF 639-2-1

4 RUNS:  
1 SIGNAL CABLE  
1 INT. ILL. SIGN  
2 SPARES  
10 LF 630-2-11  
1 EA 649-21-15  
POLE LOCATION=  
STA. 2833+82.64  
148.29' LT



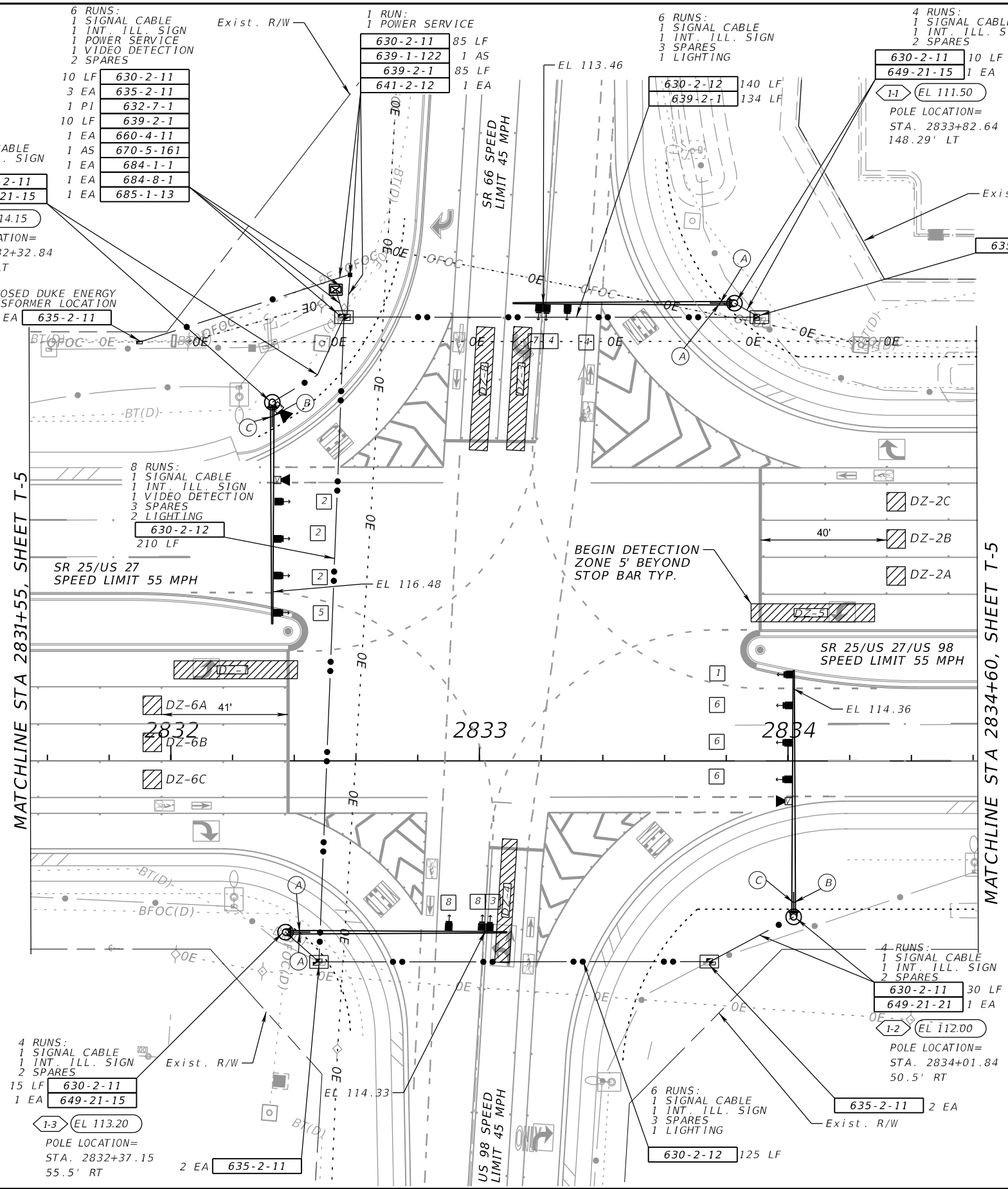
- CONTROLLER OPERATIONS:**
- MAJOR STREET 15 SR 25 (US 27), (MOVEMENTS 2 AND 6), AND MINOR STREET 15 SR 66/US 98 (MOVEMENTS 4/7 AND 3/8).
  - STANDARD SIGNAL OPERATING PLAN NO. 9 WITH NO SPECIAL FEATURES.
    - (A) WHEN SIGNAL IS IN FLASHING MODE, SIGNAL HEADS 2 AND 6 FLASH YELLOW. ALL OTHER SIGNAL HEADS FLASH RED.
    - (B) WIRE THE CONTROLLER CABINET IN ACCORDANCE WITH THE SIGNAL OPERATING PLAN.
    - (C) WIRE LEFT TURN SIGNAL HEADS 3 AND 7 TO THE COMPANION THRU HEADS (FOR PHASES 4 AND 5) ON THE TERMINAL BLOCK IN THE CONTROLLER CABINET ONLY NOT IN THE OVERHEAD WIRING.



CONTROLLER TIMINGS						
(CONTROLLER PHASE#) MOVEMENT NUMBER	1	2	3	4	5	6
DIRECTION	NBL	SB	EB	WB	SBL	NB
TURN TYPE	PROT				PROT	
MINIMUM GREEN	5	15	10	10	5	15
EXTENSION	3.0	2.4	3.0	3.0	3.0	2.4
YELLOW CLEARANCE	5.6	5.6	4.9	4.9	5.6	5.6
ALL RED	3.0	2.0	2.0	2.0	3.0	2.0
MAXIMUM GREEN 1	15	55	35	35	30	55
MAXIMUM GREEN 2						
MAX LIMIT						
ADJUST BY						
PEDESTRIAN WALK						
PED. CLEARANCE						
DETECTOR MEMORY						
DET. CROSS SWITCH						
DUAL ENTRY		ON				ON
RECALL		MIN				MIN

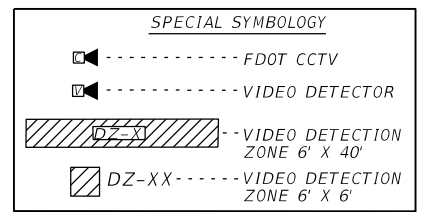
REQUEST UPDATED SIGNAL TIMINGS FROM FDOT TSM&O ENGINEER - ARTERIALS (863)-519-2216 WHEN ALL LANES, STRIPING, SIGNALS AND PEDESTRIAN FACILITIES ARE IN THEIR FINAL CONFIGURATION AND THE SIGNAL IS OPERATING AS DESIGNED. PROVIDE FDOT WITH ALL "AS-BUILT" INFORMATION NECESSARY TO DEVELOP THE BASIC SIGNAL TIMING 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.

SEE LIGHTING PLANS FOR DETAILS OF SHARED DIRECTIONAL BORE RUNS.



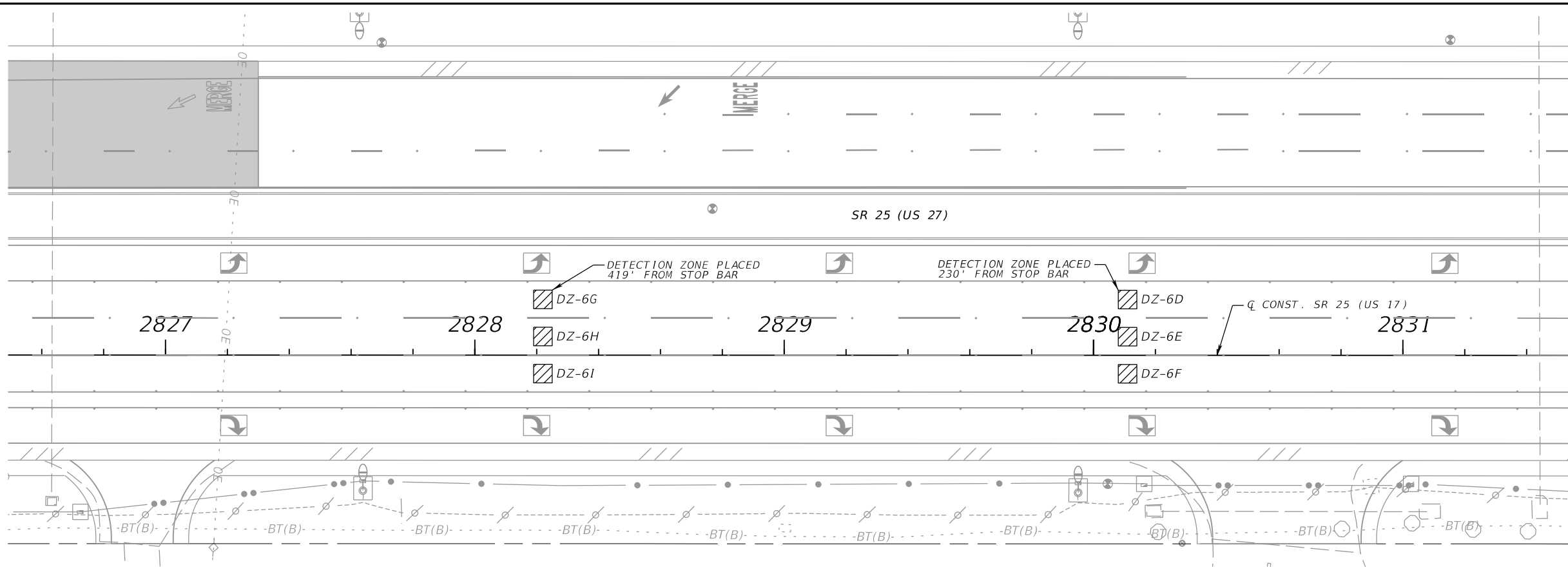
VIDEO VEHICLE DETECTION ASSIGNMENTS			
VIDEO DETECTOR	DETECTION ZONE	CONNECT TO MOVEMENT	DELAY TIME (SEC)
VD-1	DZ-1	1	
	DZ-6A	6	
	DZ-6B	6	
VD-2	DZ-6C	6	
	DZ-6D	6	
	DZ-6E	6	
	DZ-6F	6	
	DZ-6G	6	
	DZ-6H	6	
	DZ-8	8	3
	DZ-8D	8	8
	DZ-5	5	
	DZ-2A	2	
	DZ-2B	2	
	DZ-2C	2	
	DZ-2D	2	
	DZ-2E	2	
	DZ-2F	2	
	DZ-2G	2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

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

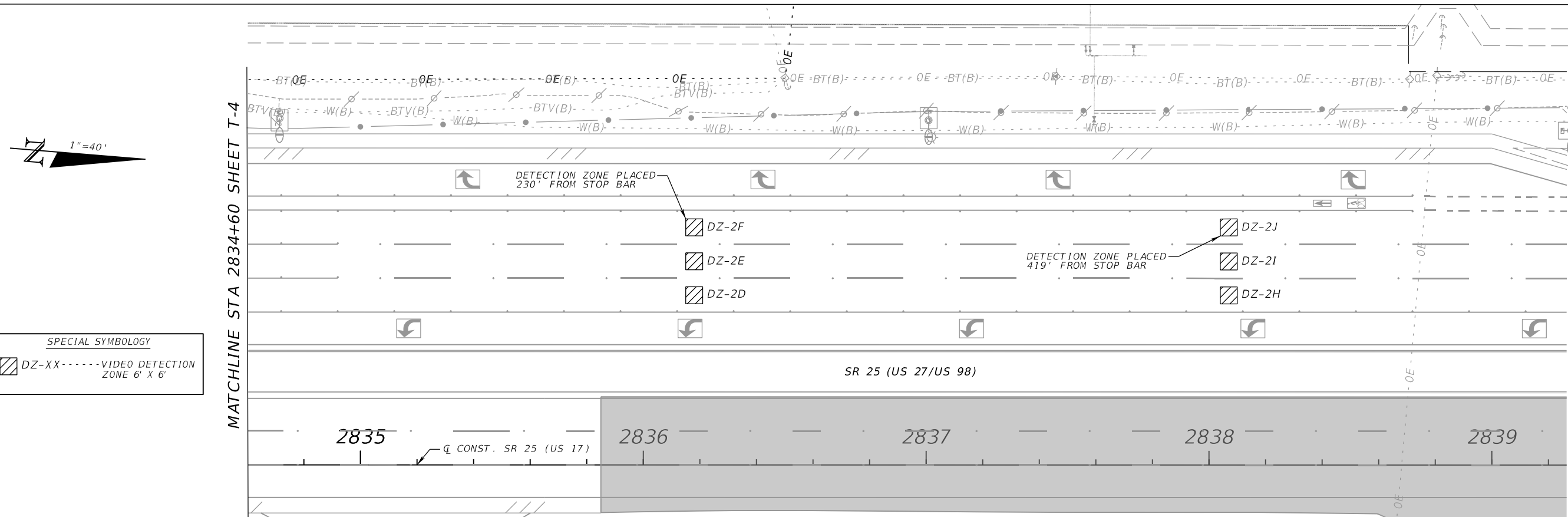


REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNALIZATION PLAN (1)	SHEET NO. T-4
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SR 25	HIGHLANDS	439750-2-52-01		

GERALDO J. SANCHEZ, P.E.  
LICENSE NUMBER 74538  
PATEL, GREENE & ASSOCIATES, LLC  
200 E ROBINSON ST., SUITE 300  
ORLANDO, FL 32801



MATCHLINE STA 2831+55, SHEET T-4



MATCHLINE STA 2834+60 SHEET T-4

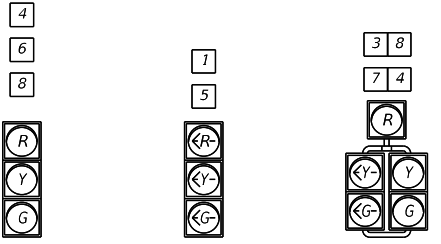
**SPECIAL SYMBOLOLOGY**  
 [Symbol] DZ-XX-----VIDEO DETECTION ZONE 6' X 6'

REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNALIZATION PLAN (2)	SHEET NO. T-5
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
			GERALDO J. SANCHEZ, P.E. LICENSE NUMBER 74538 PATEL, GREENE & ASSOCIATES, LLC 200 E ROBINSON ST., SUITE 300 ORLANDO, FL 32801	SR 25	HIGHLANDS	439750-2-52-01		

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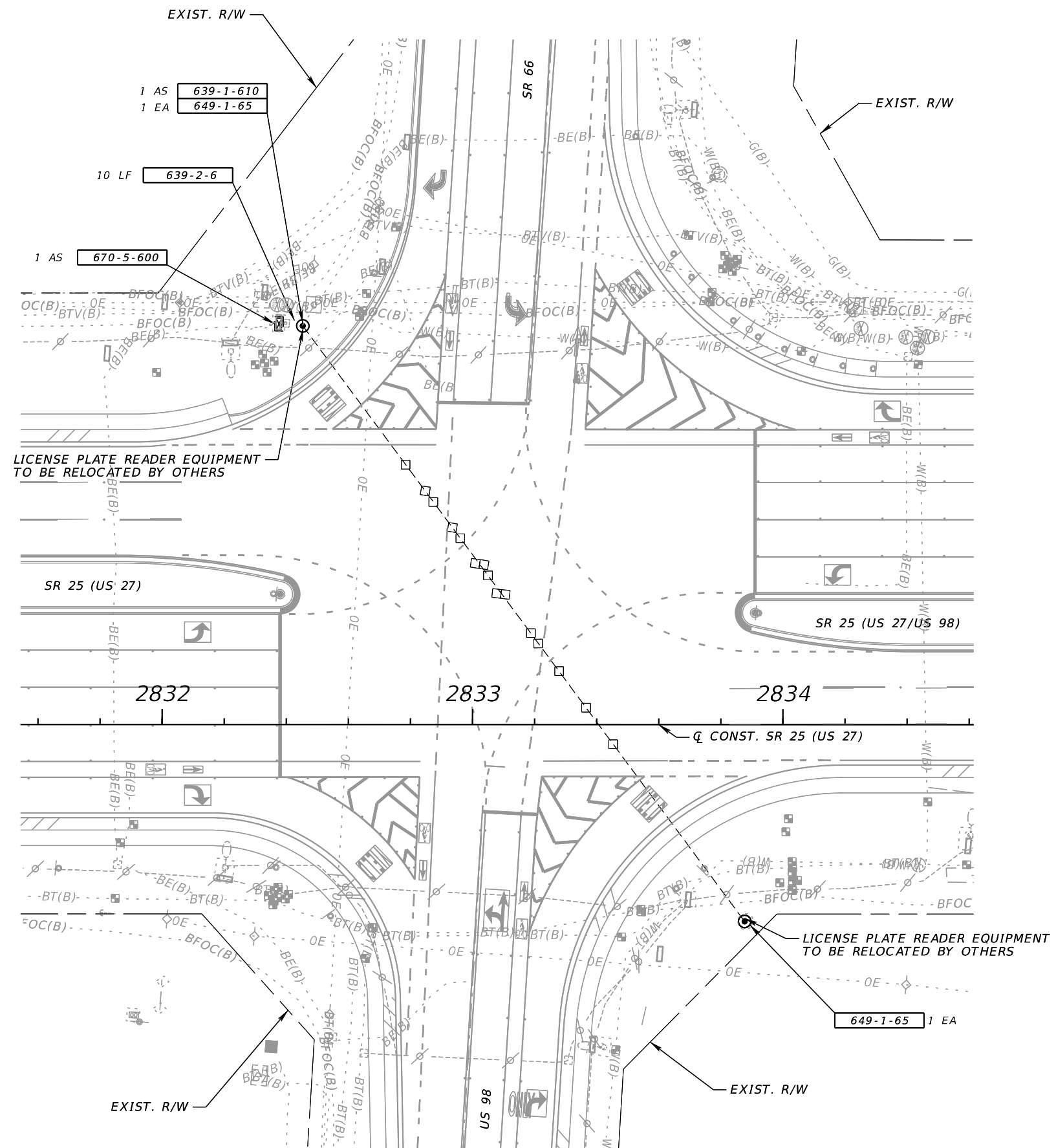
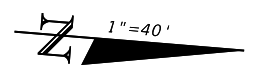
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**SIGNAL HEAD DETAILS**



3-SECT., 1-WAY 8 AS  
 3-SECT., 1-WAY 2 AS  
 5-SECT., 1-WAY 2 AS

EXISTING SIGNAL HEADS AND SPAN WIRE ASSEMBLY TO BE REMOVED WITH THE SIGNAL POLES.



SIGNAL REMOVAL ITEMS

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REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNALIZATION PLAN (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				SR 25	HIGHLANDS	439750-2-52-01		T-6

GERALDO J. SANCHEZ, P.E.  
 LICENSE NUMBER 74538  
 PATEL, GREENE & ASSOCIATES, LLC  
 200 E ROBINSON ST., SUITE 300  
 ORLANDO, FL 32801





**STANDARD MAST ARM ASSEMBLIES DATA TABLE**

Table Date 11-01-16

STRUCTURE ID NUMBERS	POLE NUMBER	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.)	
09M012	1-1	A70/S-P5/S-DS/20/5.0	A70/S	N/A	N/A	N/A	N/A	N/A	P5/S	N/A	22.0	DS/20/5.0
09M012	1-2	A78/S-P6/S-DS/25/5.0	A78/S	N/A	N/A	N/A	N/A	N/A	P6/S	N/A	22.0	DS/25/5.0
09M012	1-3	A70/S-P5/S-DS/20/5.0	A70/S	N/A	N/A	N/A	N/A	N/A	P5/S	N/A	21.0	DS/20/5.0
09M012	1-4	A70/S-P5/S-DS/20/5.0	A70/S	N/A	N/A	N/A	N/A	N/A	P5/S	N/A	22.0	DS/20/5.0

NOTES [NOTES DATE 11-01-16]:

- 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.
- 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.
- WORK THIS SHEET WITH THE SIGNAL DESIGNER'S "MAST ARM TABULATION". SEE "MAST ARM TABULATION" FOR SPECIAL INSTRUCTIONS THAT INCLUDE NON-STANDARD HANDHOLE LOCATION, PAINT COLOR, TERMINAL COMPARTMENT REQUIREMENT, AND PEDESTRIAN FEATURES.
- WORK WITH INDEX 649-030 AND 649-031.

**FOUNDATION DATA TABLE**

STRUCTURE ID NUMBER	POLE NUMBER	SOIL TYPE	EFFECTIVE SOIL WEIGHT (PCF)	SOIL FRICTION ANGLE (DEGREES)	AVERAGE SPT N-VALUE
09M012	1-1	SAND	42.6	29	9
09M012	1-2	SAND	42.6	29	8
09M012	1-3	SAND	42.6	29	9
09M012	1-4	SAND	42.6	29	9

FOUNDATION NOTES:

- FOUNDATION DESIGN BASED ON DATA CONTAINED IN THE SIGNAL POLE BORINGS PREPARED BY TEST LAB, INC., AND SIGNED AND SEALED BY CONNIE A. JOHNSON-GEARHAR, P.E..
- FOR SOIL ASSUMPTIONS AND VALUES USED IN DESIGN, SEE FOUNDATION DATA TABLE. WATER TABLE IS ASSUMED TO BE AT THE SOIL SURFACE.

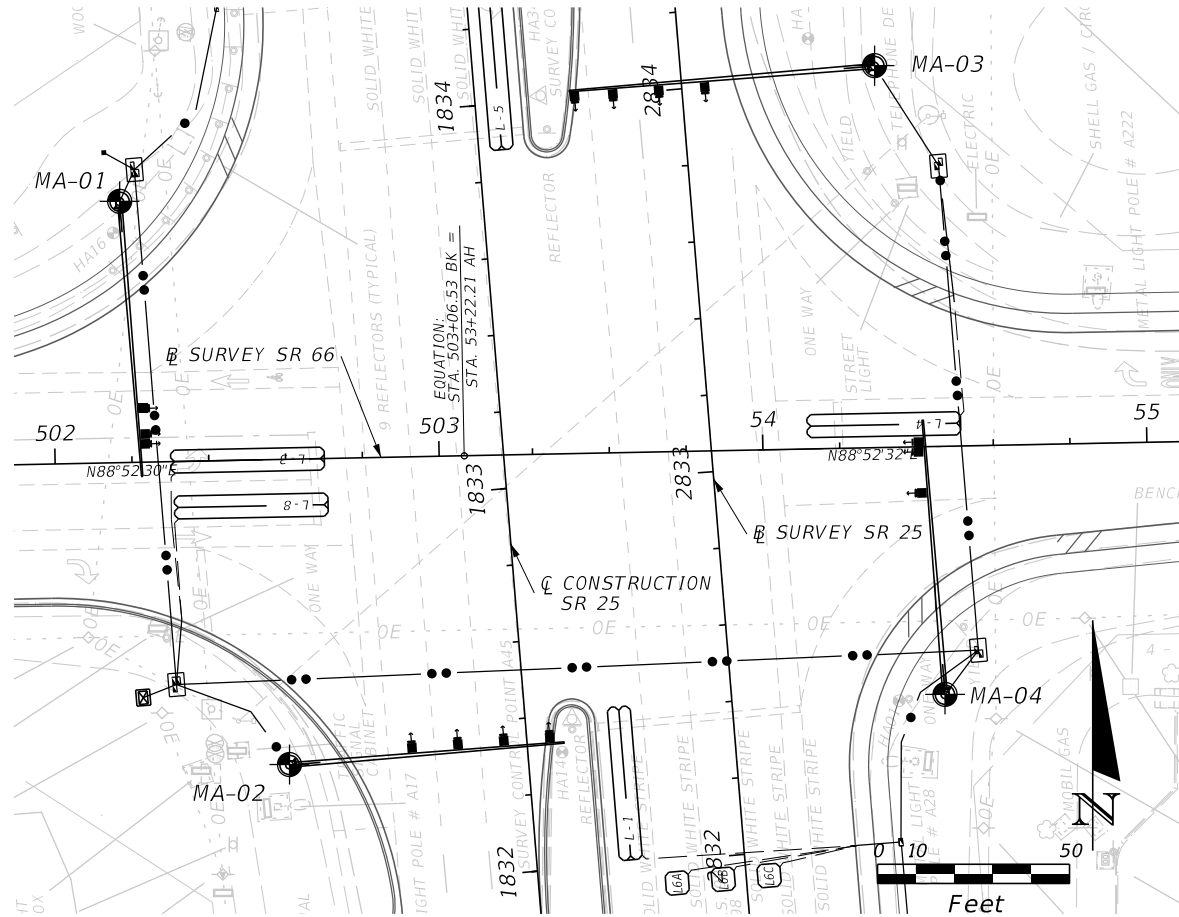
\$DATES \$TIMES \$USERS c:\pw\workdir\patel@greene-pw-01\pw\_user\dms02466\ViscStrMastArm01.dgn

REVISIONS				ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			MAST ARM ASSEMBLIES DATA TABLES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	JOHNNY FUNG, P.E. LICENSE NUMBER: 64669 PATEL, GREENE & ASSOCIATES, LLC 12570 TELECOM DRIVE TEMPLE TERRACE, FL 33637		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-9
						SR 25	HIGHLANDS	439750-2-52-01		

Drawn By : JML Designed By: VS  
Checked By: MSL Checked By : MSL

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**BORING LOCATION**



**LEGEND**

- LIGHT GRAY TO DARK GRAY TO BROWNISH GRAY TO BLACK TO YELLOWISH BROWN TO DARK GRAYISH BROWN TO OLIVE BROWN TO BROWN TO PALE BROWN TO REDDISH SAND TO SAND WITH SILT (SP/SP-SM)
- SP UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM 2488)  
SYMBOL AS DETERMINED BY VISUAL REVIEW
- N NUMBERS TO THE LEFT OF BORINGS INDICATE THE STANDARD PENETRATION TEST (SPT) "N" VALUE FOR 12" OF PENETRATION (UNLES OTHERWISE NOTED)
- Surv. BASELINE OF SURVEY
- GNA GROUNDWATER TABLE NOT APPARENT DUE TO USE OF DRILLING FLUID.
- NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988
- w% MOISTURE CONTENT
- 200 FINES PASSING #200 STANDARD SIEVE (%)
- APPROXIMATE LOCATION OF SPT BORING

**NOTE:**

BORING ELEVATION, STATION AND OFFSET WERE DETERMINED USING PROJECT BENTLEY OPEN ROADS DIGITAL FILES ALONG WITH GPS COORDINATES IDENTIFIED BY TEST LAB, INC. IN THE FIELD AND SHOULD BE CONSIDERED APPROXIMATE.

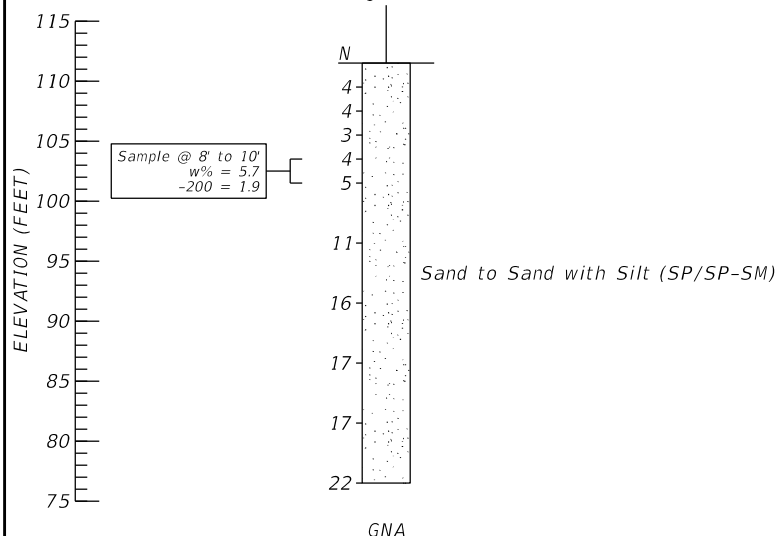
**NOTES:**

1. DUE TO THE LOOSE/SOFT CONDITIONS OF THE SOILS ENCOUNTERED WITHIN THE BORING DEPTHS IN SOME AREAS, THE CONTRACTOR SHOULD ANTICIPATE THE NEED FOR UTILIZATION OF TEMPORARY CASING BEYOND THE DEPTHS SPECIFIED IN FDOT SSRBC SECTION 455-15.1.3 IN ORDER TO STABILIZE THE EXCAVATION DURING CONSTRUCTION. IN ADDITION, THE CONTRACTOR SHOULD ANTICIPATE THAT CONCRETE VOLUME OVERRUNS MAY OCCUR DURING THE SHAFT INSTALLATION.
2. BASED ON REVIEW OF THE POTENTIOMETRIC SURFACE MAPS, PUBLISHED BY SOUTHWEST WATER MANAGEMENT DISTRICT, MAY 2016, THE POTENTIOMETRIC ELEVATION OF THE UPPER FLORIDA AQUIFER WITHIN PROJECT AREA IS REPORTED AT APPROXIMATELY +70 TO +80 FEET NGVD29. ARTESIAN CONDITIONS WERE NOT ENCOUNTERED AT THE TIME OF OUR FIELD ACTIVITIES. HOWEVER, THE CONTRACTOR'S DEWATERING EQUIPMENT AND METHODS SHALL BE ADEQUATE TO HANDLE ARTESIAN WATER UP TO THE ELEVATION OF +80 FEET, NGVD.

**AUTOMATIC HAMMER**

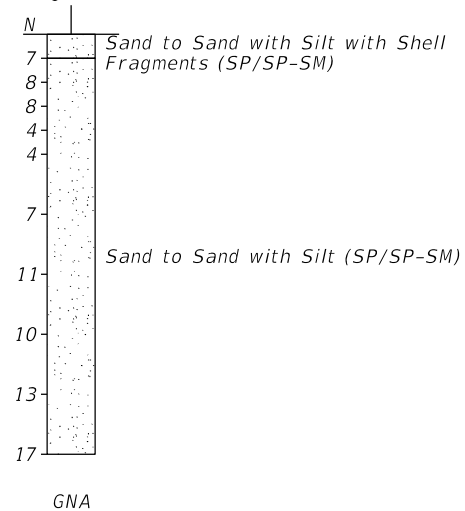
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT)	SILT AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT)
VERY LOOSE	LESS THAN 3	VERY SOFT	LESS THAN 1
LOOSE	3 TO 8	SOFT	1 TO 3
MEDIUM DENSE	8 TO 24	FIRM	3 TO 6
DENSE	24 TO 40	STIFF	6 TO 12
VERY DENSE	GREATER THAN 40	VERY STIFF	12 TO 24
		HARD	GREATER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

Bore # MA-01  
Reference SR 25  
Station 2833+83  
Offset 148' LT  
Latitude 27.429287°  
Longitude -81.418392°  
Elevation 111.5'  
Date 6/12/2025  
Driller M. Hernandez  
Hammer Auto  
Rig B47 HD



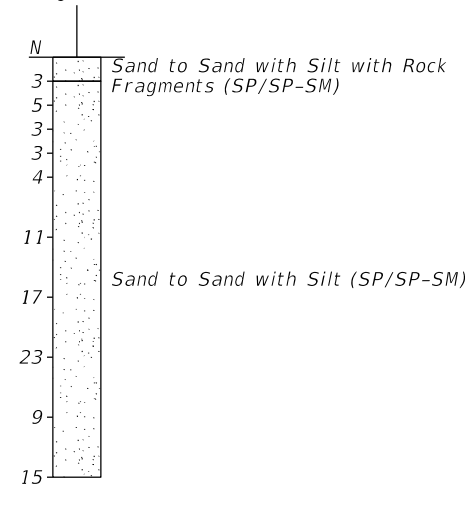
Boring Terminated at Elev. 76.5ft

Bore # MA-02  
Reference SR 25  
Station 2832+33  
Offset 116' LT  
Latitude 27.428884°  
Longitude -81.418254°  
Elevation 113.9'  
Date 6/12/2025  
Driller M. Hernandez  
Hammer Auto  
Rig B47 HD



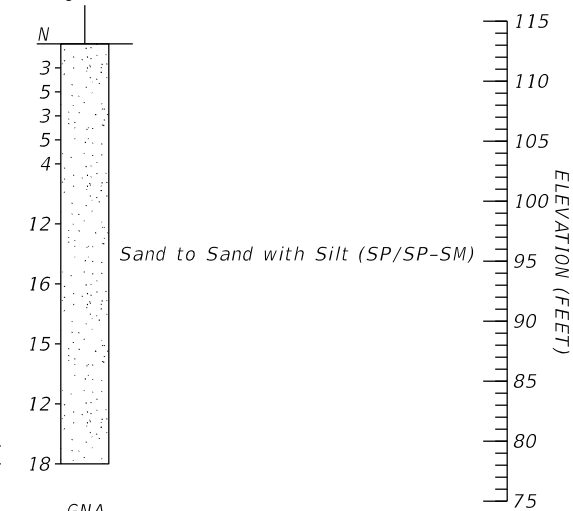
Boring Terminated at Elev. 78.9ft

Bore # MA-03  
Reference SR 25  
Station 2834+02  
Offset 51' RT  
Latitude 27.429386°  
Longitude -81.417786°  
Elevation 112'  
Date 6/12/2025  
Driller M. Hernandez  
Hammer Auto  
Rig B47 HD



Boring Terminated at Elev. 77ft

Bore # MA-04  
Reference SR 25  
Station 2832+37  
Offset 56' RT  
Latitude 27.428936°  
Longitude -81.417728°  
Elevation 113.1'  
Date 6/11/2025  
Driller M. Hernandez  
Hammer Auto  
Rig B47 HD



Boring Terminated at Elev. 78.1ft

REVISIONS		ENGINEER OF RECORD		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				SR 25	HIGHLANDS	439750-1-52-01	GT-1

**REPORT OF CORE BORINGS**

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