

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

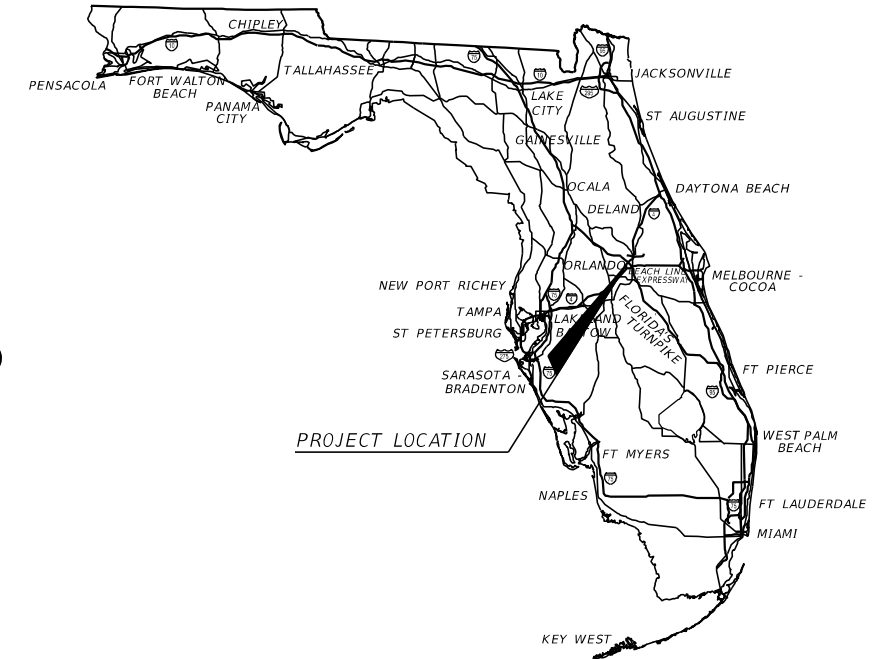
FINANCIAL PROJECT ID 444315-1-52-01

ORANGE COUNTY (75280)

STATE ROAD NO. 400 (I-4)

FROM W. OF SR 482 (SAND LAKE RD) TO W. OF KIRKMAN RD (SR 435)

SIGNALIZATION PLANS



INDEX OF SIGNALIZATION PLANS

<i>SHEET NO.</i>	<i>SHEET DESCRIPTION</i>
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T-5 - T-13	SIGNALIZATION PLAN
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T-17	MAST ARM TABULATION
T-18	GUIDE SIGN WORK SHEET
T-19 - T-21	SPLICING DIAGRAMS

SIGNALIZATION PLANS

ENGINEER OF RECORD:
AARON M. JOHNSON, P.E. 72943
JACOBS ENGINEERING GROUP, INC.
200 S. ORANGE AVENUE, SUITE 900
ORLANDO, FL 32801
(407) 903-5001
CONTRACT NO. C-9187
VENDOR NO. F954081636001

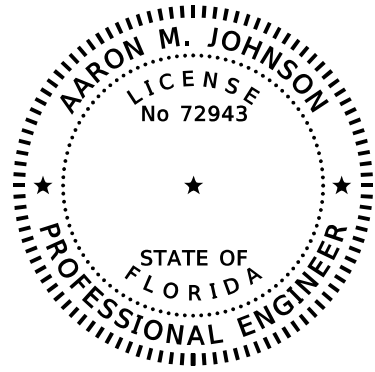
FDOT PROJECT MANAGER:

TODD HELTON, PE

PHASE II (60%) SUBMITTAL PLANS
MARCH 2021

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	22	T-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.

JACOBS ENGINEERING GROUP, INC.
200 S. ORANGE AVENUE, SUITE 900
ORLANDO, FL 32801
AARON M. JOHNSON, P.E. NO. 72943

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

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3	TABULATION OF QUANTITIES
T-4	GENERAL NOTES
T-5 - T-13	SIGNALIZATION PLAN
T-14 - T-16	INTERCONNECT PLAN
T-17	MAST ARM TABULATION
T-18	GUIDE SIGN WORK SHEET
T-19 - T-21	SPLICING DIAGRAMS

REVISIONS				Engineer of Record: Aaron M. Johnson P.E. License No. 72943 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5001	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-2
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

SIGNATURE SHEET

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SR 400 (I-4) (FPID 444315-1-52-01)																		TOTAL THIS SHEET		GRAND TOTAL	
			SHEET NUMBERS																		PLAN	FINAL	PLAN	FINAL
			T-5		T-7		T-9		T-10		T-12		T-14		T-15		T-16		T-17					
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, F & I, OPEN TRENCH	LF																						
630-2-12	CONDUIT, F & I, DIRECTIONAL BORE	LF																						
632-7-1	SIGNAL CABLE - NEW OR RECONSTRUCTED INTERSECTION, F & I	PI																						
632-7-4	SIGNAL CABLE - ADJUST	PI																						
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2 TO 12	LF																						
633-1-123	FIBER OPTIC CABLE, F&I, UNDERGROUND, 49 TO 96	LF																						
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA																						
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA																						
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA																						
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA																						
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA																						
635-2-11	PULL & SPLICE BOX, F & I, 13" X 24" COVER SIZE	EA																						
635-2-12	PULL & SPLICE BOX, F & I, 24" X 36" COVER SIZE	EA																						
635-2-13	PULL & SPLICE BOX, F & I, 30" X 60" COVER SIZE	EA																						
639-1-122	ELECTRICAL POWER SERVICE, F & I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																						
639-2-1	ELECTRICAL SERVICE WIRE, F & I	LF																						
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																						
639-3-12	ELECTRICAL SERVICE DISCONNECT, F&I, CABINET	EA																						
641-2-12	PRESTRESSED CONCRETE POLE, F & I, TYPE P-II SERVICE POLE	EA																						
646-1-11	ALUMINUM SIGNAL POLES, PEDESTRIAN	EA																						
646-1-60	ALUMINUM SIGNALS POLE (PEDESTAL AND PEDESTRIAN DETECTOR POST), REMOVE	EA																						
646-2-120	ALUMINUM POLE-INDEX 17900/695-001, FURNISH & INSTALL, 20'	EA																						
649-21-1	STEEL MAST ARM ASSEMBLY, F & I, SINGLE ARM 30'	EA																						
649-21-3	STEEL MAST ARM ASSEMBLY, F & I, SINGLE ARM 40'	EA																						
649-21-6	STEEL MAST ARM ASSEMBLY, F & I, SINGLE ARM 50'	EA																						
649-21-10	STEEL MAST ARM ASSEMBLY, F & I, SINGLE ARM 60'	EA																						
649-21-15	STEEL MAST ARM ASSEMBLY, F & I, SINGLE ARM 70'	EA																						
649-21-21	STEEL MAST ARM ASSEMBLY, F & I, SINGLE ARM 78'	EA																						
649-26-3	STEEL MAST ARM ASSEMBLY, REMOVE	EA																						
650-1-14	TRAFFIC SIGNAL, F & I, ALUMINUM, 3 SECTION, 1 WAY	AS																						
650-1-16	TRAFFIC SIGNAL, F & I, ALUMINUM, 4 SECTION, 1 WAY	AS																						
650-1-70	VEHICULAR TRAFFIC SIGNAL, RELOCATE - INCLUDES REMOVAL AND REINSTALLATION	AS																						
653-1-11	PEDESTRIAN SIGNAL, F & I, LED COUNT DOWN, 1 WAY	AS																						
660-1-109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	AS																						
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	AS																						
660-3-11	VEHICLE DETECTION SYSTEM-MICROWAVE, F&I,CABINET EQUIPMENT	EA																						
660-3-12	VEHICLE DETECTION SYSTEM-MICROWAVE, F&I, ABOVE GROUND EQUIPMENT	EA																						
663-1-111	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, CABINET ELECTRONICS	EA																						
663-1-112	SIGNAL PRIORITY AND PREEMPTION SYSTEM, F&I, OPTICAL, DETECTOR	EA																						
665-1-12	PEDESTRIAN DETECTOR, F&I, ACCESSIBLE	EA																						
670-5-111	TRAFFIC CONTROLLER ASSEMBLY, F & I, NEMA, 1 PREEMPTION	AS																						
670-5-140	TRAFFIC CONTROLLER ASSEMBLY, F & I, MODEL 2070	AS																						
670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE	AS																						
676-1-115	TRAFFIC SIGNAL CONTROLLER CABINET, F&I, W/O CONTROLLER, NEMA SIZE 5, 30"W X 48"H X 16"D	AS																						
680-1-112	SYSTEM CONTROL EQUIPMENT, F&I, CABINET EQUIPMENT	EA																						
684-1-1	MANAGED FIELD ETHERNET SWITCH, LAYER 2, F&I	EA																						
685-1-13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA																						
700-3-201	SIGN PANEL, F & I, OVERHEAD MOUNT, UP TO 12 SF	EA																						
700-5-21	INTERNALLY ILLUMINATED SIGN, F & I, OVERHEAD MOUNT, UP TO 12 SF	EA																						
700-5-22	INTERNALLY ILLUMINATED SIGN, F & I, OVERHEAD MOUNT, 12-18 SF	EA																						

REVISIONS				Engineer of Record: Aaron M. Johnson P.E. License No. 72943 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5001	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	444315-1-52-01		T-3

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

GENERAL NOTES

1. UNLESS OTHERWISE NOTED, ALL REMOVED EQUIPMENT SHALL BE TURNED OVER TO ORANGE COUNTY AS DIRECTED BY THE ENGINEER, EXCEPT FOR POLES, WHICH SHALL BE DISPOSED OF BY THE CONTRACTOR. THE CONTRACTOR TO NOTIFY ORANGE COUNTY TWO BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION. ORANGE COUNTY TRAFFIC OPERATIONS
4200 SOUTH JOHN YOUNG PARKWAY
ORLANDO, FLORIDA 32839-9205
 2. THE CONTRACTOR SHALL MAINTAIN THE EMERGENCY PRE-EMPTION OPERATION AT ALL TIMES.
 3. TRAFFIC SIGNALS WITHIN THE PROJECT LIMITS ARE PART OF ORANGE COUNTY'S "SCOOT" SYSTEM. LOOP LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTACT HAZEM EL-ASSAR AT (407-836-7866) TO COORDINATE FINAL LOCATIONS.
 4. ALL CONTROLLERS SHALL BE CAPABLE OF ACCOMMODATING LEADING PEDESTRIAN INTERVAL (LPI) AND CAN OPERATE 4-SECTION LOGIC BASED ON PEDESTRIAN ACTUATION.
 5. IN THE EVENT PERMANENT VEHICLE DETECTION IS DISRUPTED, PROVIDE AN ALTERNATIVE MEANS OF DETECTION TO ALL LANES APPROACHING THE INTERSECTION, SEPARATING EACH MOVEMENT WHICH PREVIOUSLY HAD DETECTION. THE TYPE OF DETECTOR SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. EQUIPMENT SHALL ONLY DETECT THE INTENDED MOVEMENT.
- CONTROLLER NOTES:**
1. THE CONTROLLER BASE AND SERVICE PAD SHALL BE A MONOLITHIC CONCRETE POUR WITH 4 INCHES (10 CM) MINIMUM. 8 INCHES (20 CM) MAXIMUM ABOVE FINISHED GRADE.
 2. THE CABINET DOOR SHALL OPEN AWAY FROM THE INTERSECTION UNLESS SPECIFIED OTHERWISE.
 3. A MANUAL PUSH-BUTTON CORD SHALL BE FURNISHED IN THE CONTROLLER CABINET.
- MAST ARM NOTES:**
1. IF A CONTINUOUS RUN OF SIGNAL CABLE IS NOT POSSIBLE FROM THE CABINET TO THE SIGNAL HEAD, THEN A TERMINAL BLOCK SHALL BE USED.
 2. SIX FEET OF ADDITIONAL SIGNAL SABLE SLACK SHALL BE WOUND INSIDE THE UPRIGHT AND SUPPORTED BY THE CABLE CLAMP SUCH THAT THE TERMINAL BLOCK CAN BE REMOVED FROM THE UPRIGHT TO ALLOW FOR TROUBLE SHOOTING.
 3. THE CABLE GRIP SHALL BE OF SUFFICIENT SIZE TO NOT COMPROMISE THE INSULATION ON THE SIGNAL CABLE.
 4. LAYERS OF VERY HARD MATERIALS MAY BE ENCOUNTERED AT THIS SITE. SUCH MATERIALS MAY MAKE SHAFT EXCAVATIONS AND/OR TEMPORARY CASING INSTALLATION DIFFICULT. THE CONTRACTOR SHALL EXPECT TO ENCOUNTER THESE TYPE MATERIALS AT ALL SHAFT LOCATIONS AND SHALL USE SPECIALIZED EQUIPMENT AND/OR PROCEDURES AS NECESSARY TO FACILITATE SHAFT EXCAVATION OR TEMPORARY CASING INSTALLATION. WHEN TEMPORARY CASING IS USED; THE CASING TIP SHALL BE REINFORCED AND THE CASING THICKNESS SHALL BE ADEQUATE TO PREVENT CASING DAMAGE/DEFORMATION DURING INSTALLATION THROUGH LAYERS.
 5. FOR MISCELLANEOUS STRUCTURES THAT HAVE BEEN COMPLETED SCHEDULED FOR ACCEPTANCE. THE CONTRACTOR SHALL CONTACT DISTRICT FIVE STRUCTURES MAINTENANCE OFFICE AT (386) 740-3463 ONE MONTH PRIOR TO COMPLETION OF PROJECT TO SCHEDULE AN INSPECTION OF STRUCTURES INCLUDING CABLE SIGNS, CANTILEVER SIGN, TRUSS SIGNS, HIGH MAST LIGHT POLES, ITS, DMS AND TRAFFIC SIGNAL MAST ARMS.

PAY ITEM NOTES:

632-7-1 AS APPLICABLE INCLUDES THE ADDITIONAL SLACK CABLE STORED IN THE UPRIGHT PER THE CABLE STRAIN RELIEF DETAIL.

660-3-11, 660-3-12 TO INCLUDE HAWKEYE RADAR DETECTION.

670-5-111: ALL SIGNALS SHALL OPERATE INSYNC ADAPTIVE SIGNAL CONTROL.

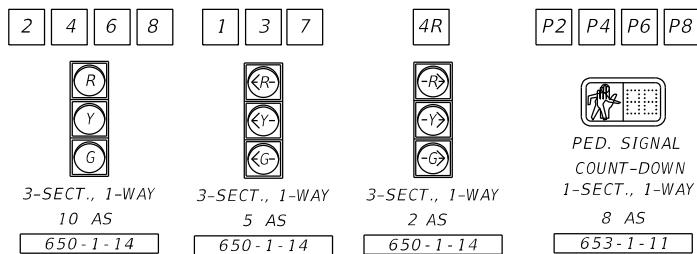
680-1-112 TO BE COMPATIBLE WITH ORANGE COUNTY'S S.R. 482 ADAPTIVE SIGNAL SYSTEM, CAMERAS ARE TO BE INFARED. THE PEDESTRIAN DETECTION SHALL RUN TO AN INTERCEPT MODULE FOR DETECTION.

REVISIONS				Engineer of Record: Aaron M. Johnson P.E. License No. 72943 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5001	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-4
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

GENERAL NOTES

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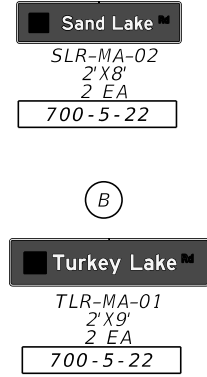
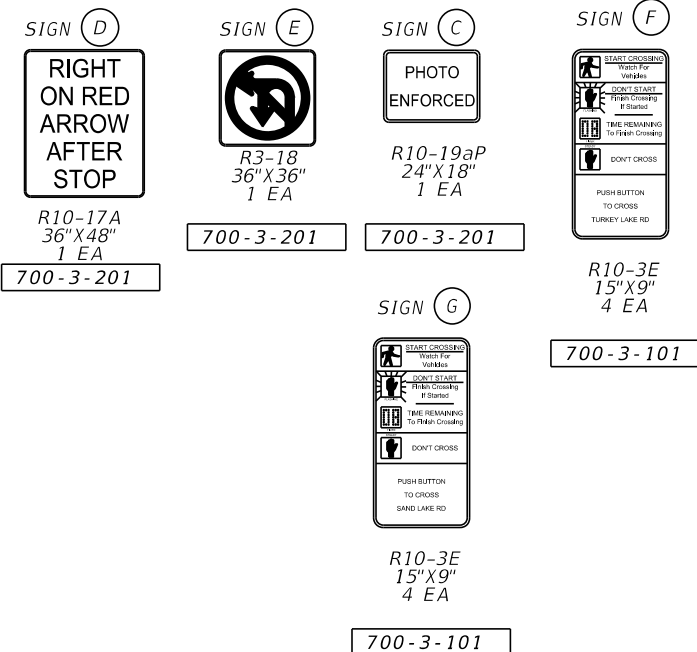
SIGNAL HEAD DETAILS



REMOVAL ITEMS

646-1-60
649-26-3
670-5-600

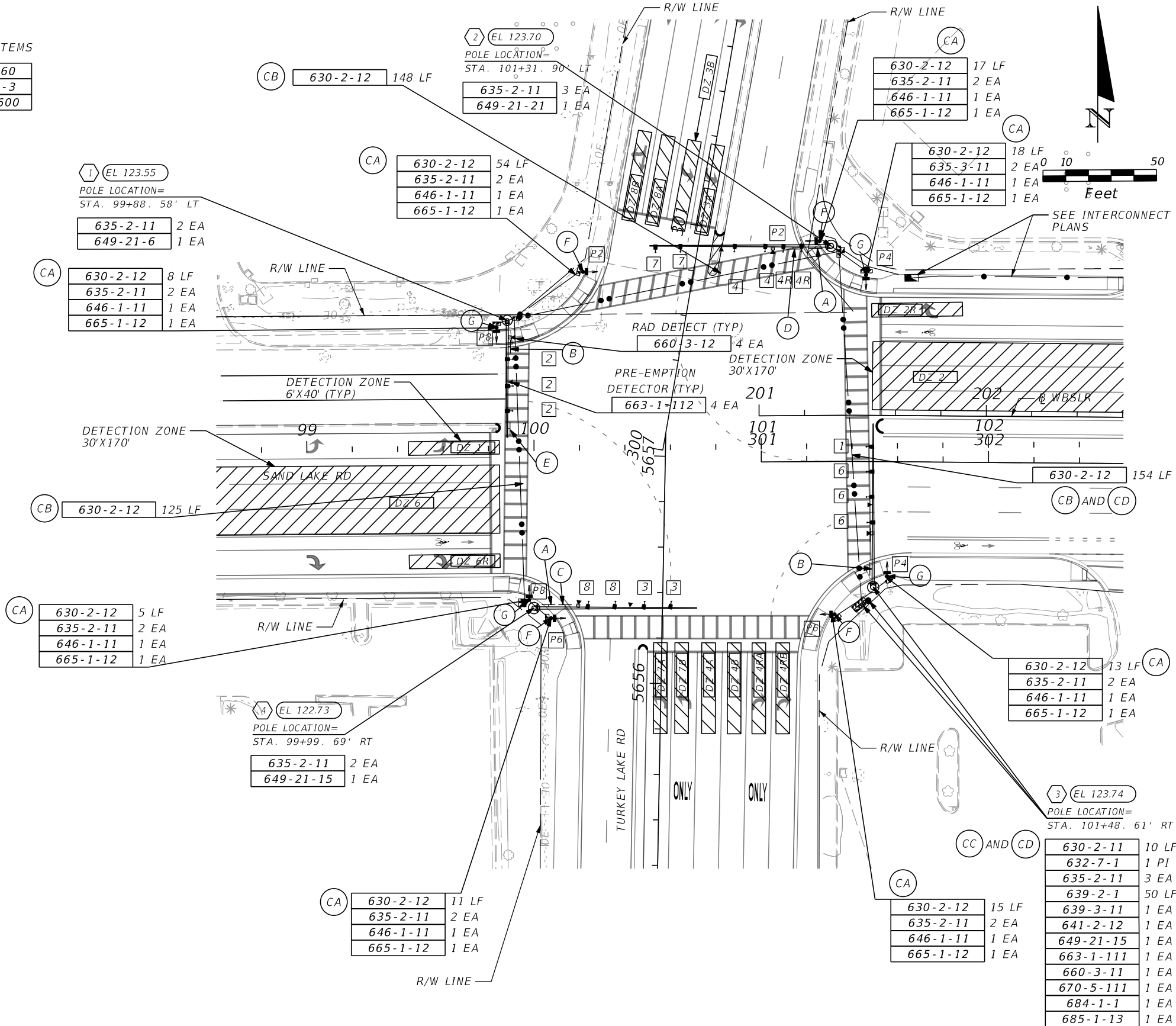
SIGN DETAILS



- NOTES:**
1. MAJOR STREET IS SAND LAKE ROAD (SR 482) (POSTED SPEED = 40 MPH). MINOR STREET IS TURKEY LAKE ROAD (POSTED SPEED = 40 MPH).
 2. REFER TO INTERCONNECT PLANS FOR FIBER OPTIC CABLE AND ASSOCIATED PULL BOXES AND CONDUIT (EXCEPT AS INDICATED).
 3. SEE SIGNALIZATION PLAN (1A) FOR SIGNAL OPERATING PLAN, CONTROLLER TIMINGS AND VIDEO DETECTOR CHART.
 4. THE SERVICE POLE HEIGHT IS 12FT TOTAL, 8 FT ABOVE GROUND.

CONDUIT RUN LEGEND:

- CA: 4 RUNS: PED SIGNAL, PED DETECTOR, HV SPARE, LV SPARE
- CB: 7 RUNS: VEH SIGNAL, PED SIGNAL, PED DETECTOR, RADAR DETECTOR, PREEMPT, HV SPARE, LV SPARE
- CC: 8 RUNS: VEH SIGNAL, PED SIGNAL, PED DETECTOR, RADAR DETECTOR, PREEMPT, HV SPARE, LV SPARE, POWER
- CD: 2 RUNS: 2-1.25" HDPE FOR INTERCONNECT
- CE: 5 RUNS: VEH SIGNAL, RADAR DETECTOR, PREEMPT, HV SPARE, LV SPARE



SAND LAKE RD & TURKEY LAKE RD

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

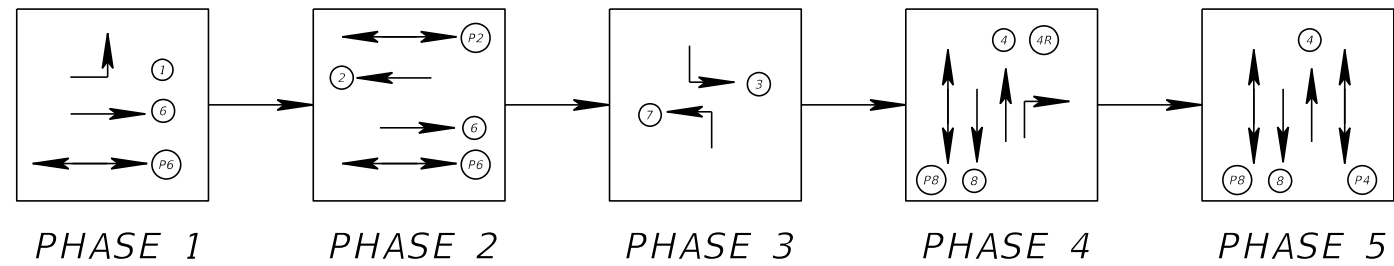
SIGNALIZATION PLAN (1)

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SIGNAL OPERATING PLAN

SPECIAL SOP

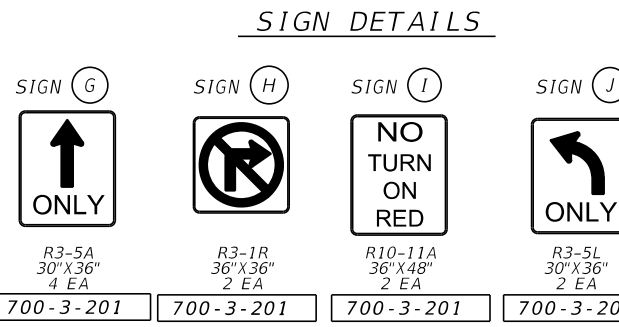
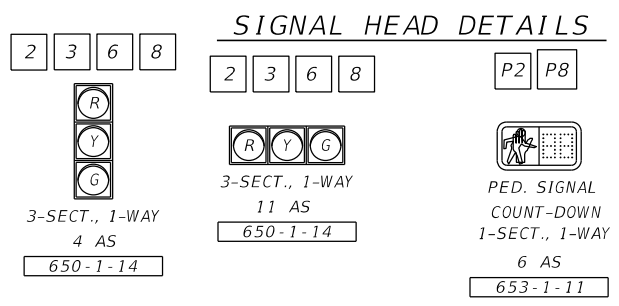
SAND LAKE RD AND TURKEY LAKE RD



CONTROLLER TIMINGS								
TIMING FUNCTION								
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
TIMING FUNCTION								
MINIMUM GREEN	5.0	5.0	5.0	5.0		5.0	5.0	5.0
EXTENSION	3.0	3.0	3.0	3.0		3.0	3.0	3.0
MAXIMUM GREEN 1	37	52	31	40		89	36	35
MAXIMUM GREEN 2	37	52	31	40		89	36	35
YELLOW CLEARANCE	4.4	4.4	4.8	4.8		4.4	4.8	4.8
ALL RED	2.8	3.1	2.7	3.0		3.4	2.7	3.2
PEDESTRIAN WALK	-	7	-	7		7	-	-
PED. CLEARANCE	-	30	-	36		30	-	-
RECALL	None	Max	Max	Max		C-Max	Max	Max

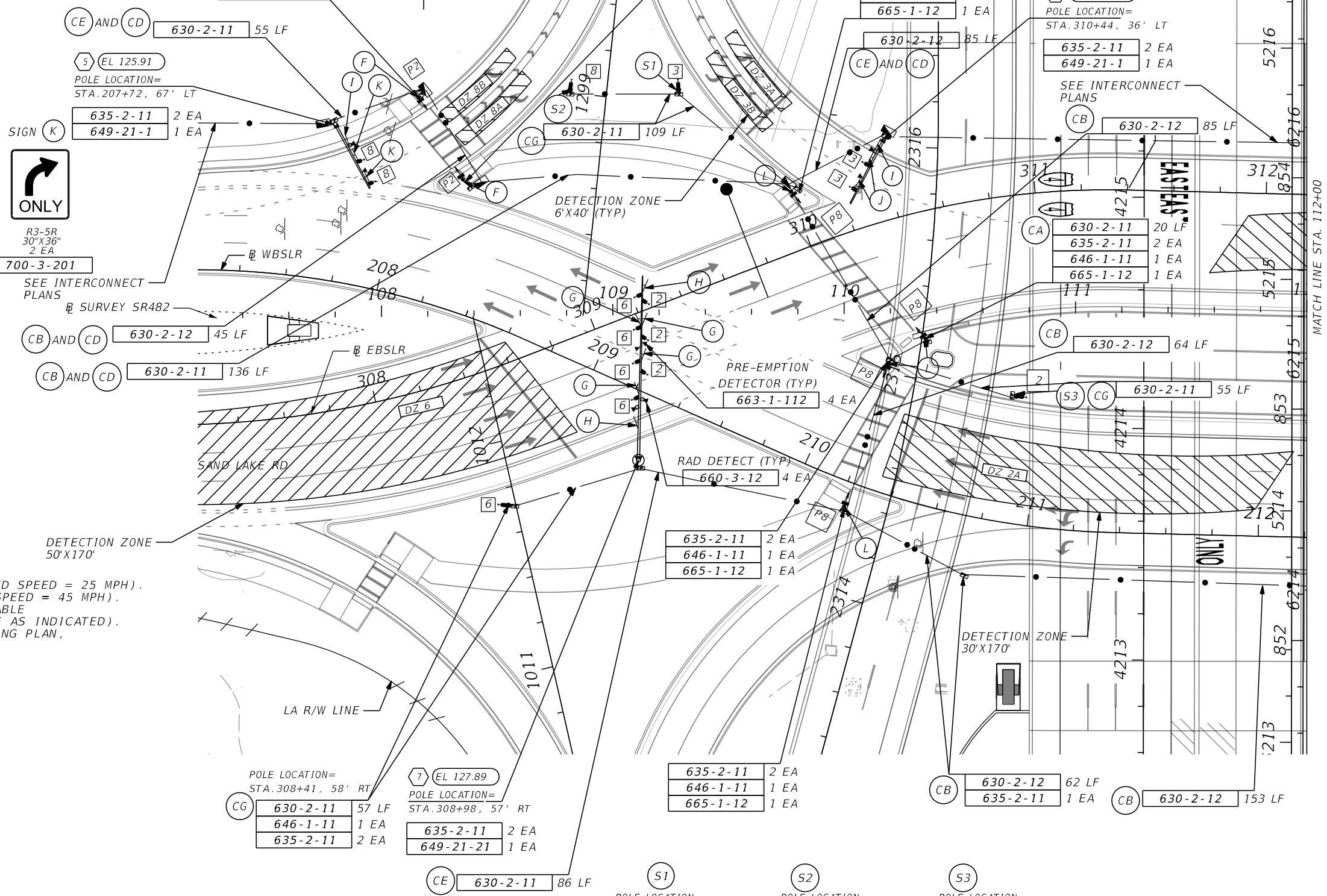
VIDEO DETECTOR CHART		
DETECTOR NO.	DETECTION ZONE	CONNECT TO PHASE
MA-1	DZ 2, 2R	2
MA-2	DZ 4, 4R	4, 5
	DZ 7	3
MA-3	DZ 6, 6R	1, 2
	DZ 1	1
MA-4	DZ 8	5
	DZ 3	3

REVISIONS				<i>Engineer of Record: Aaron M. Johnson</i> P.E. License No. 72943 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5001	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNALIZATION PLAN (1A)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-6
						SR 400	ORANGE		444315-1-52-01



REMOVAL ITEMS

646-1-60
649-26-3
670-5-600



- #### NOTES:
1. MAJOR STREET IS SAND LAKE ROAD (SR 482) (POSTED SPEED = 25 MPH). MINOR STREET IS I-4 WESTBOUND RAMPS (DESIGN SPEED = 45 MPH).
 2. REFER TO INTERCONNECT PLANS FOR FIBER OPTIC CABLE AND ASSOCIATED PULL BOXES AND CONDUIT (EXCEPT AS INDICATED).
 3. SEE SIGNALIZATION PLAN (2A) FOR SIGNAL OPERATING PLAN, CONTROLLER TIMINGS, AND VIDEO DETECTOR CHART.

- #### CONDUIT RUN LEGEND:
- CA: 4 RUNS: PED SIGNAL, PED DETECTOR, HV SPARE, LV SPARE
 - CB: 7 RUNS: VEH SIGNAL, PED SIGNAL, PED DETECTOR, RADAR DETECTOR, PREEMPT, HV SPARE, LV SPARE
 - CC: 8 RUNS: VEH SIGNAL, PED SIGNAL, PED DETECTOR, RADAR DETECTOR, PREEMPT, HV SPARE, LV SPARE, POWER
 - CD: 2 RUNS: 2-1.25" HDPE FOR INTERCONNECT
 - CE: 5 RUNS: VEH SIGNAL, RADAR DETECTOR, PREEMPT, HV SPARE, LV SPARE
 - CF: 5 RUNS: VEH SIGNAL, PED SIGNAL, PED DETECTOR, HV SPARE, LV SPARE
 - CG: 3 RUNS: VEH SIGNAL, HV SPARE, LV SPARE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Aaron M. Johnson
 P.E. License No. 72943
 Jacobs Engineering Group, Inc.
 200 S. Orange Avenue, Suite 900
 Orlando, FL 32801
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STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

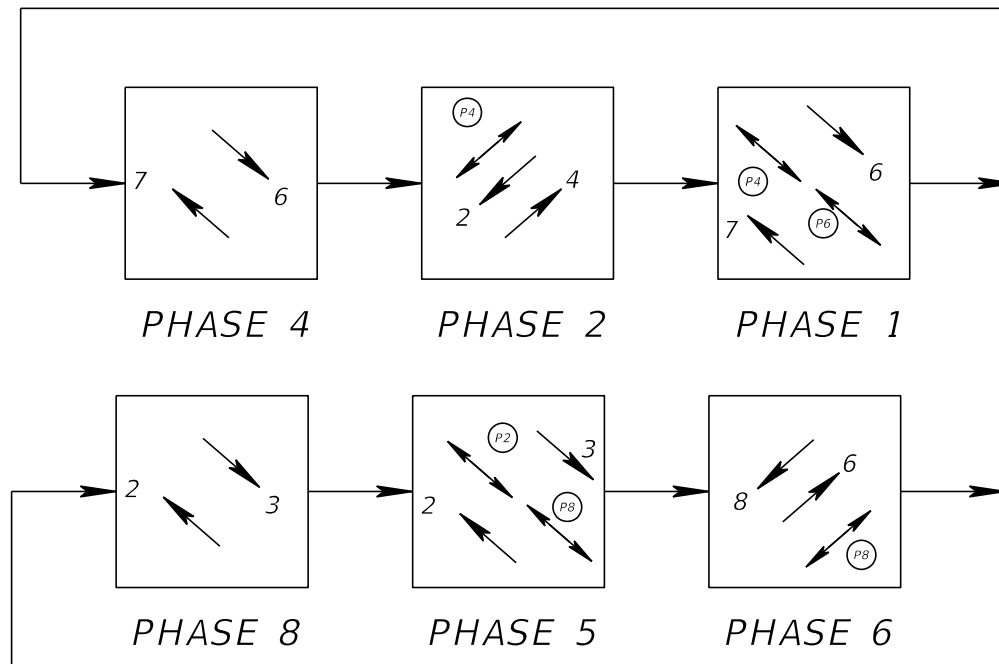
SIGNALIZATION PLAN (2)

SHEET NO. T-7

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SIGNAL OPERATING PLAN SPECIAL SOP SAND LAKE RD AND I-4 EAST AND WEST RAMPS

EAST CROSSOVER



WEST CROSSOVER

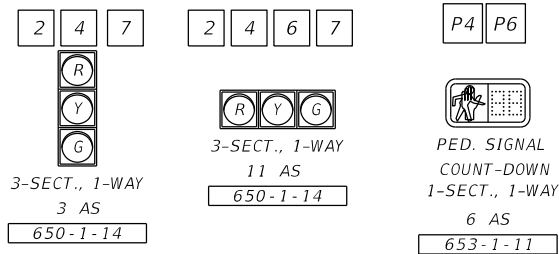
CONTROLLER TIMINGS																		
TIMING FUNCTION		AT I-4 WB RAMPS								AT I-4 EB RAMPS								
MOVEMENT NUMBER		1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	
TIMING FUNCTION	MINIMUM GREEN	5.0	5.0			5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0			
	EXTENSION	3.0	3.0			3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0			
	MAXIMUM GREEN 1	98	85			112	98	112	98	112	98	98	85					
	MAXIMUM GREEN 2	98	85			112	98	112	98	112	98	98	85					
	YELLOW CLEARANCE	3.4	4.4			4.4	4.4	4.4	4.4	4.4	4.4	3.4	4.4					
	ALL RED	5.5	2.0			2.3	2.3	3.1	2.0	5.1	2.0							
	PEDESTRIAN WALK	7	-			7	7	7	7	7	7	7	-					
	PED. CLEARANCE	7	-			14	19	14	18	7	-							
	RECALL		Min	C-Max			None	Min	None	C-Min	C-Min	None						

VIDEO DETECTOR CHART		
DETECTOR NO.	DETECTION ZONE	CONNECT TO PHASE
MA-5	DZ 8	6
MA-6	DZ 3	8
MA-7-EB	DZ 6	6
MA-7-WB	DZ 2A	5, 8
MA-8	DZ 7	4
MA-9-EB	DZ 6A	1, 4
MA-9-WB	DZ 2	2
MA-10	DZ 4	2

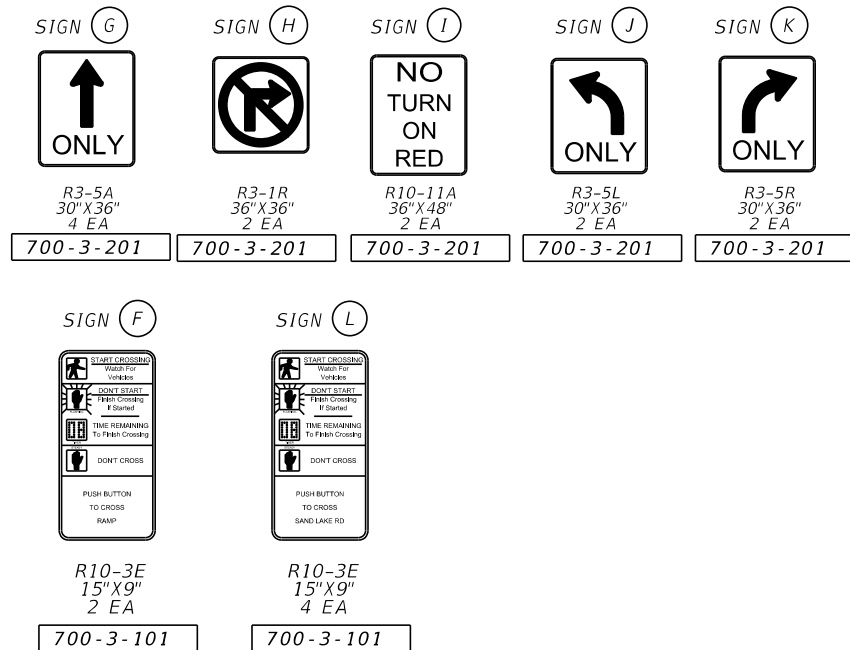
REVISIONS				Engineer of Record: Aaron M. Johnson P.E. License No. 72943 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5001	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNALIZATION PLAN (2A)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-8
					SR 400	ORANGE	444315-1-52-01		

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SIGNAL HEAD DETAILS



SIGN DETAILS



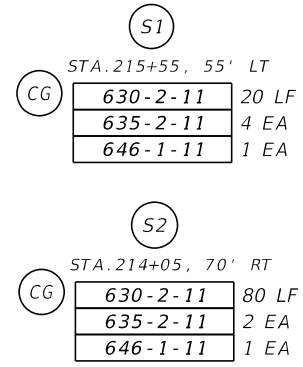
REMOVAL ITEMS

646-1-60
649-26-3
670-5-600

- NOTES:**
- MAJOR STREET IS SAND LAKE ROAD (SR 482) (POSTED SPEED = 25 MPH). MINOR STREET IS I-4 EASTBOUND RAMPS (DESIGN SPEED = 45 MPH).
 - REFER TO INTERCONNECT PLANS FOR FIBER OPTIC CABLE AND ASSOCIATED PULL BOXES AND CONDUIT (EXCEPT AS INDICATED).
 - SEE SIGNALIZATION PLAN (2A) FOR SIGNAL OPERATING PLAN, CONTROLLER TIMINGS, AND VIDEO DETECTOR CHART.
 - THE SERVICE POLE HEIGHT IS 12FT TOTAL, 8 FT ABOVE GROUND.

CONDUIT RUN LEGEND:

- CA: 4 RUNS: PED SIGNAL, PED DETECTOR, HV SPARE, LV SPARE
- CB: 7 RUNS: VEH SIGNAL, PED SIGNAL, PED DETECTOR, RADAR DETECTOR, PREEMPT, HV SPARE, LV SPARE
- CC: 8 RUNS: VEH SIGNAL, PED SIGNAL, PED DETECTOR, RADAR DETECTOR, PREEMPT, HV SPARE, LV SPARE, POWER
- CD: 2 RUNS: 2-1.25" HDPE FOR INTERCONNECT
- CE: 5 RUNS: VEH SIGNAL, RADAR DETECTOR, PREEMPT, HV SPARE, LV SPARE
- CF: 5 RUNS: VEH SIGNAL, PED SIGNAL, PED DETECTOR, HV SPARE, LV SPARE
- CG: 3 RUNS: VEH SIGNAL, HV SPARE, LV SPARE



630-2-11	10 LF
632-7-1	1 PI
635-2-11	5 EA
639-2-1	50 LF
639-3-11	1 EA
641-2-12	1 EA
649-21-1	1 EA
660-3-11	1 EA
663-1-111	1 EA
670-5-111	1 EA
684-1-1	1 EA
685-1-13	1 EA

635-2-11	2 EA
646-1-11	1 EA
665-1-12	1 EA

630-2-12	65 LF
----------	-------

635-2-11	2 EA
646-1-11	1 EA
665-1-12	1 EA

630-2-11	16 LF
635-2-11	2 EA
646-1-11	1 EA
665-1-12	1 EA

630-2-12	80 LF
----------	-------

635-2-11	2 EA
646-1-11	1 EA
665-1-12	1 EA

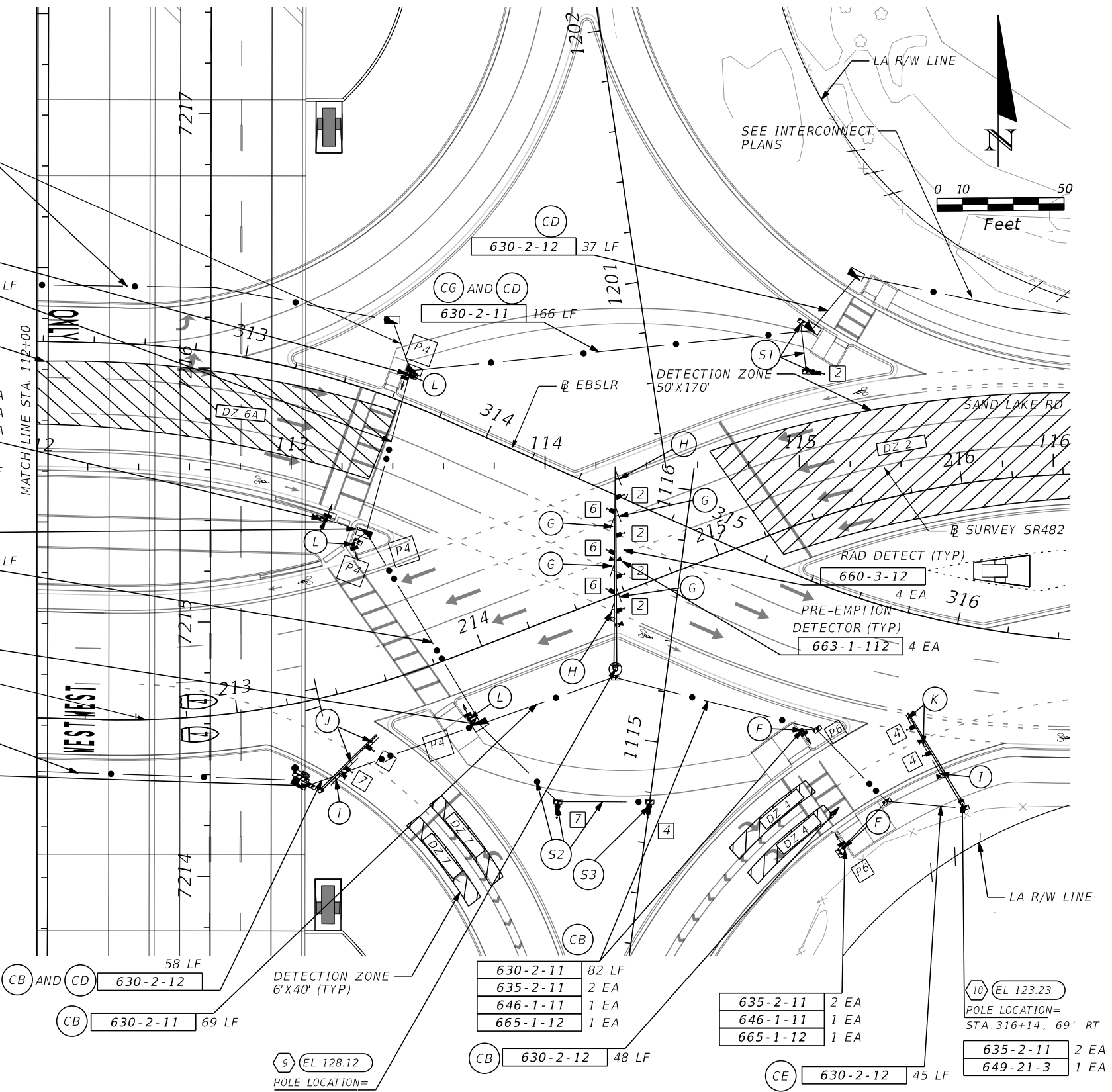
630-2-12	101 LF
----------	--------

POLE LOCATION = STA. 213+26, 36' RT

630-2-11	10 LF
632-7-1	1 PI
635-2-11	5 EA
639-2-1	50 LF
639-3-11	1 EA
641-2-12	1 EA
649-21-1	1 EA
660-3-11	1 EA
663-1-111	1 EA
670-5-111	1 EA
684-1-1	1 EA
685-1-13	1 EA

630-2-11	20 LF
635-2-11	4 EA
646-1-11	1 EA

630-2-11	80 LF
635-2-11	2 EA
646-1-11	1 EA

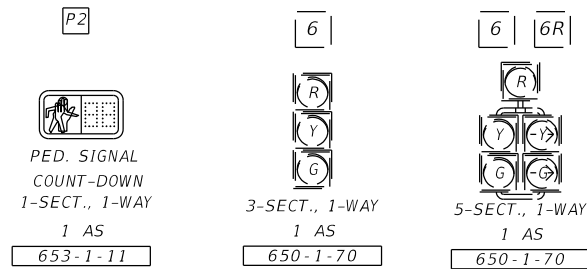


SAND LAKE RD & I-4 EB OFF RAMP

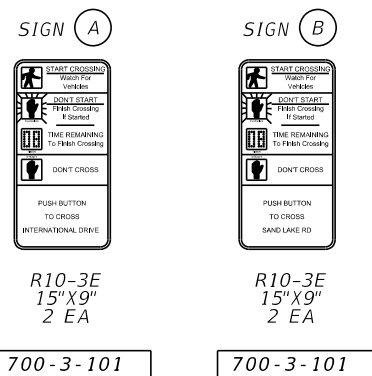
<p>Engineer of Record: Aaron M. Johnson P.E. License No. 72943 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5001</p>		<p>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</p>		<p>SIGNALIZATION PLAN (3)</p>	<p>SHEET NO. T-9</p>
DATE	DESCRIPTION	ROAD NO.	COUNTY		
		SR 400	ORANGE	444315-1-52-01	

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SIGNAL HEAD DETAILS



SIGN DETAILS

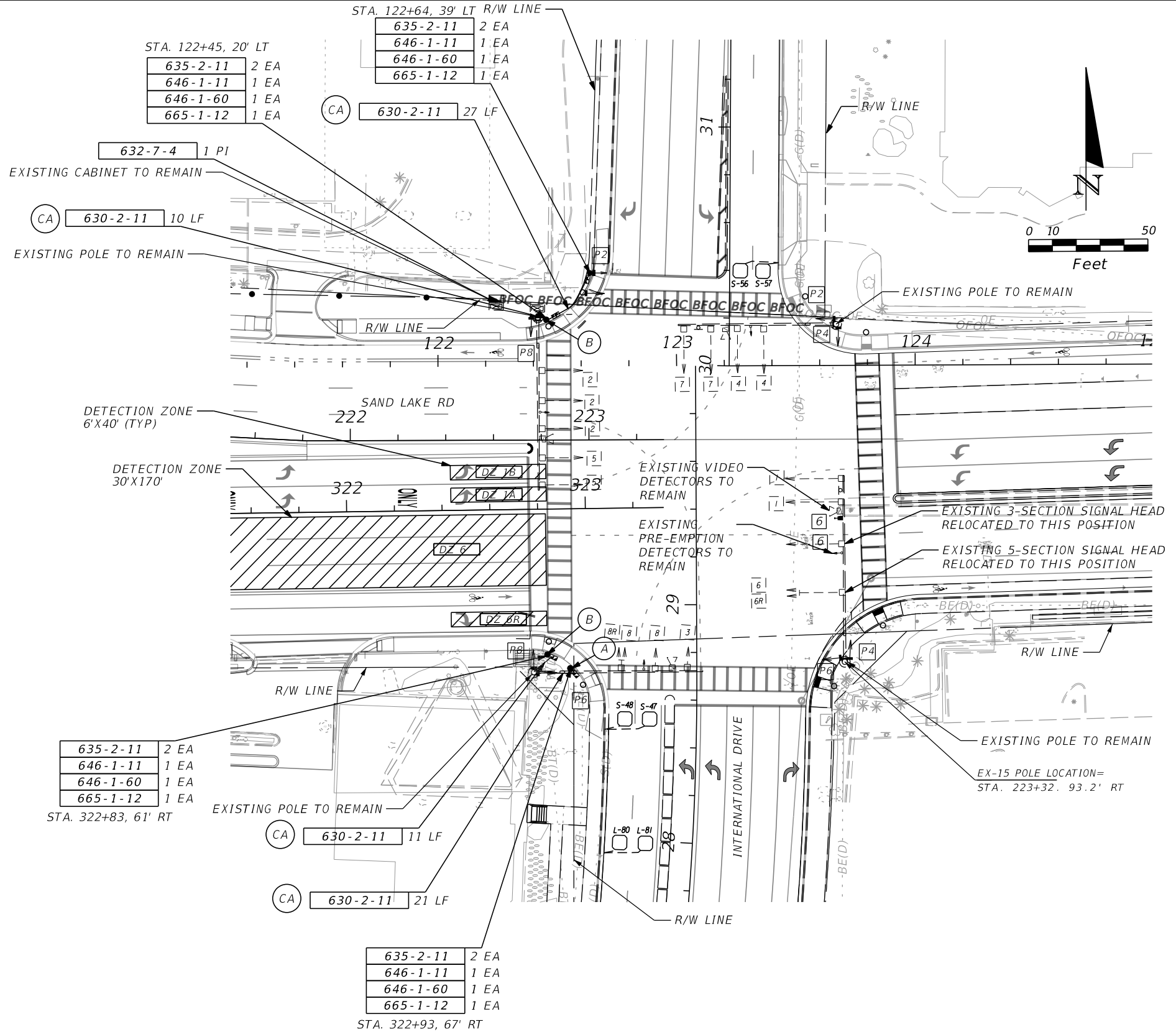


NOTES:

1. MAJOR STREET IS SAND LAKE ROAD (SR 482)(POSTED SPEED = 40 MPH). MINOR STREET IS INTERNATIONAL DRIVE (POSTED SPEED = 35 MPH, SOUTH LEG; 30 MPH, NORTH LEG).
2. REFER TO INTERCONNECT PLANS FOR FIBER OPTIC CABLE AND ASSOCIATED PULL BOXES AND CONDUIT (EXCEPT AS INDICATED).
3. EXISTING PEDESTRIAN SIGNAL HEADS P8, P6 AND P4 ARE ALL TO REMAIN ON THE EXISTING MAST ARM UPRIGHT. THIS ALSO APPLIES TO P2 IN THE NE QUADRANT ONLY.

CONDUIT RUN LEGEND:

- CA: 4 RUNS: PED SIGNAL, PED DETECTOR, HV SPARE, LV SPARE
- CB: 7 RUNS: VEH SIGNAL, PED SIGNAL, PED DETECTOR, RADAR DETECTOR, PREEMPT, HV SPARE, LV SPARE
- CC: 8 RUNS: VEH SIGNAL, PED SIGNAL, PED DETECTOR, RADAR DETECTOR, PREEMPT, HV SPARE, LV SPARE, POWER
- CD: 2 RUNS: 2-1.25" HDPE FOR INTERCONNECT
- CE: 5 RUNS: VEH SIGNAL, RADAR DETECTOR, PREEMPT, HV SPARE, LV SPARE

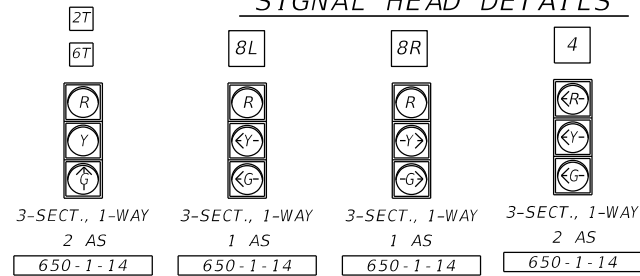


SAND LAKE RD & INTERNATIONAL DRIVE

REVISIONS				Engineer of Record: Aaron M. Johnson P.E. License No. 72943 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5001	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-10
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	

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SIGNAL HEAD DETAILS



REMOVAL ITEMS

646-1-60	
649-26-3	
670-5-600	

630-2-11	11 LF
635-2-11	2 EA
646-1-11	1 EA
665-1-12	1 EA

630-2-12	65 LF
----------	-------

EXISTING SIGNAL HEADS TO BE RELOCATED TO POSITIONS SHOWN

635-2-11	2 EA
646-1-11	1 EA
665-1-12	1 EA

635-2-11	2 EA
646-1-11	1 EA
665-1-12	1 EA

635-2-11	2 EA
646-1-11	1 EA
646-1-60	1 EA
665-1-12	1 EA

EXISTING PED SIGNAL/ DETECTOR ASSEMBLY TO REMAIN

635-2-11	2 EA
646-1-11	1 EA
646-1-60	1 EA
665-1-12	1 EA

POLE LOCATION= STA. 5637+40, 49' LT

630-2-11	10 LF
635-2-11	2 EA
649-21-6	1 EA

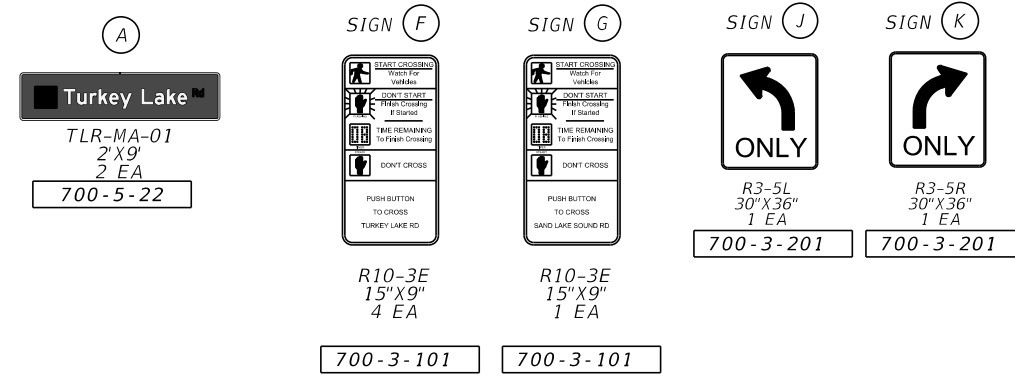
EXISTING POLE TO REMAIN EX-14 POLE LOCATION= STA. 5637+28, 44' LT

635-2-11	2 EA
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630-2-12	153 LF
----------	--------

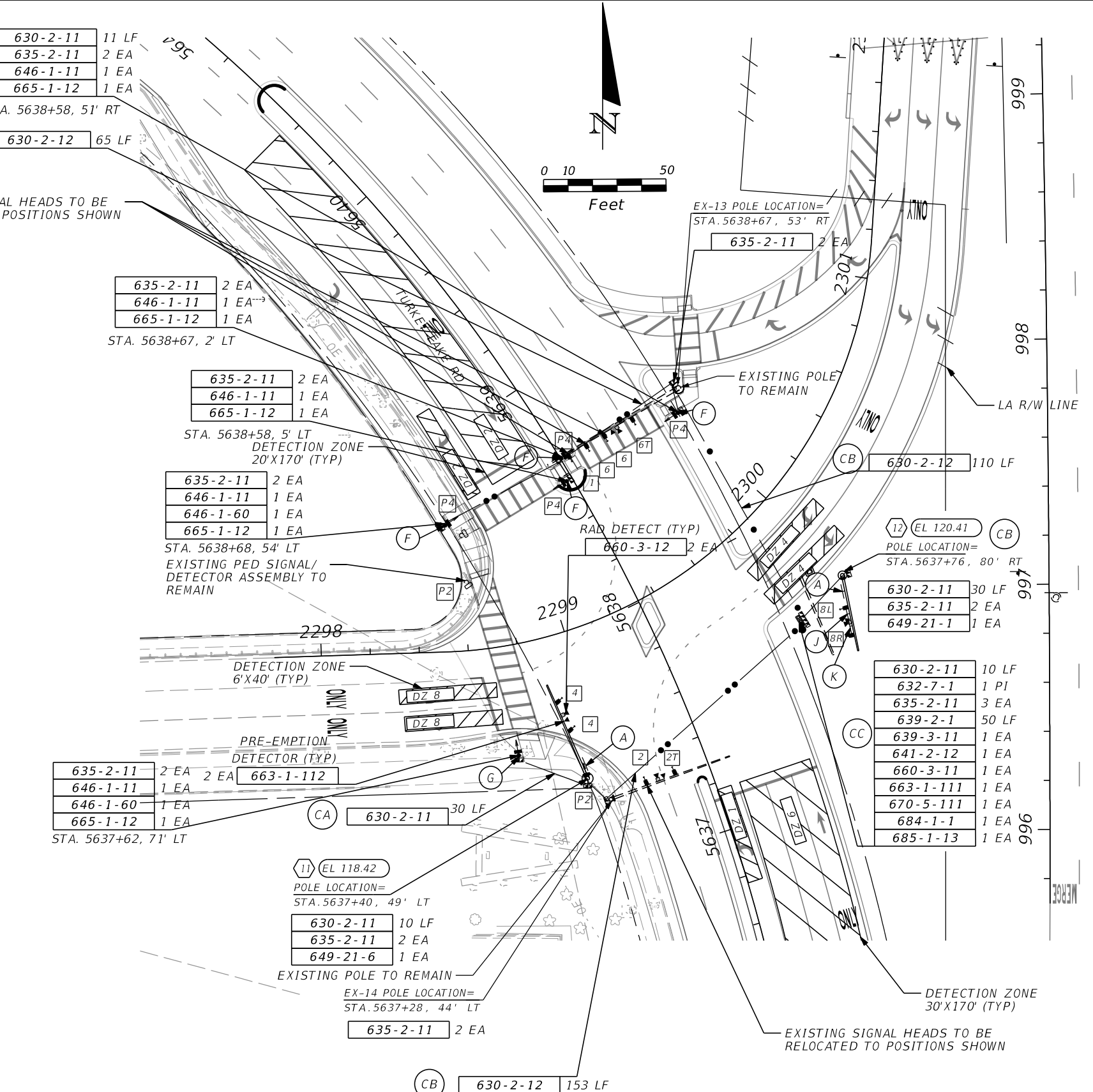
EXISTING SIGNAL HEADS TO BE RELOCATED TO POSITIONS SHOWN

SIGN DETAILS



- NOTES:**
- MAJOR STREET IS TURKEY LAKE ROAD (POSTED SPEED = 40 MPH) MINOR STREET IS SAND LAKE SOUND RD (POSTED SPEED = 35 MPH) RAMP (DESIGN SPEED = 30 MPH).
 - REFER TO INTERCONNECT PLANS FOR FIBER OPTIC CABLE AND ASSOCIATED PULL BOXES AND CONDUIT (EXCEPT AS INDICATED).
 - SEE SIGNALIZATION PLAN (5A) FOR SIGNAL OPERATING PLAN, CONTROLLER TIMINGS, AND VIDEO DETECTOR CHART.
 - REMOVE "Sand Lk Sound Rd" SIGN FROM EXISTING MAST ARM ON NE CORNER.
 - THE SERVICE POLE HEIGHT IS 12FT TOTAL, 8 FT ABOVE GROUND.

- CONDUIT RUN LEGEND:**
- CA: 4 RUNS: PED SIGNAL, PED DETECTOR, HV SPARE, LV SPARE
 - CB: 7 RUNS: VEH SIGNAL, PED SIGNAL, PED DETECTOR, RADAR DETECTOR, PREEMPT, HV SPARE, LV SPARE
 - CC: 8 RUNS: VEH SIGNAL, PED SIGNAL, PED DETECTOR, RADAR DETECTOR, PREEMPT, HV SPARE, LV SPARE, POWER
 - CD: 2 RUNS: 2-1.25" HDPE FOR INTERCONNECT
 - CE: 5 RUNS: VEH SIGNAL, RADAR DETECTOR, PREEMPT, HV SPARE, LV SPARE



TURKEY LAKE (I-4 WESTBOUND RAMP)

SIGNALIZATION PLAN (5)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Aaron M. Johnson
P.E. License No. 72943
Jacobs Engineering Group, Inc.
200 S. Orange Avenue, Suite 900
Orlando, FL 32801
PH (407) 903-5001

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

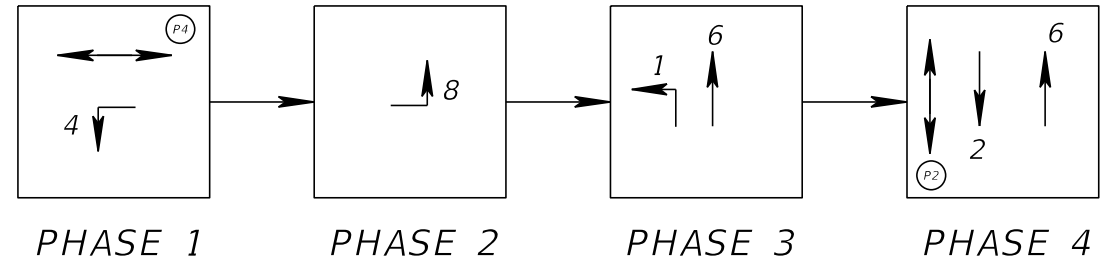
SHEET NO.	
T-11	

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SIGNAL OPERATING PLAN

SPECIAL SOP

TURKEY LAKE RD AND SAND LAKE SOUND RD

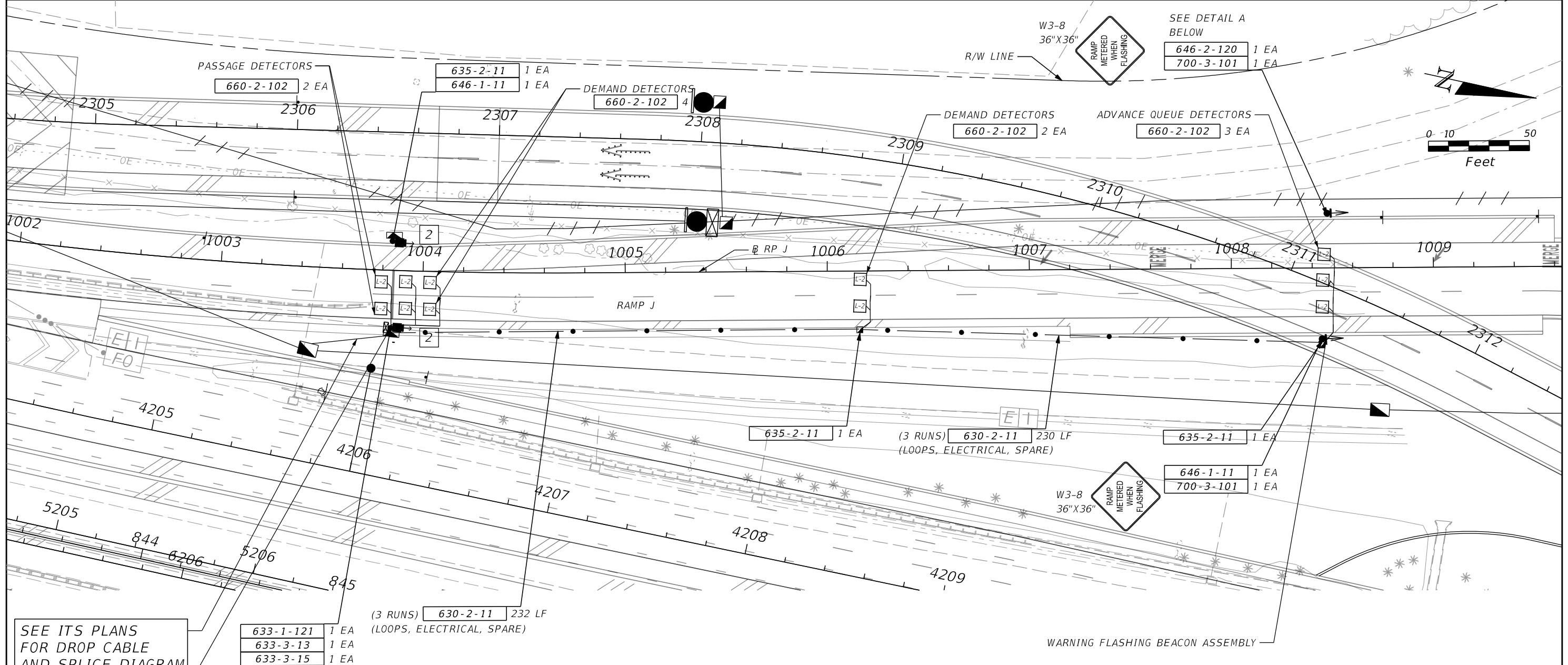


CONTROLLER TIMINGS								
TIMING FUNCTION								
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
MINIMUM GREEN	5.0	5.0		5.0		5.0		5.0
EXTENSION	3.0	3.0		3.0		3.0		3.0
MAXIMUM GREEN 1	30	64		34		64		22
MAXIMUM GREEN 2	30	64		34		64		22
YELLOW CLEARANCE	4.8	4.8		4.8		4.8		4.8
ALL RED	2.6	2.1		2.6		2.6		2.6
PEDESTRIAN WALK	-	7		7		-		-
PED. CLEARANCE	-	25		18		-		-
RECALL	None	None		None		None		Max

VIDEO DETECTOR CHART		
DETECTOR NO.	DETECTION ZONE	CONNECT TO PHASE
MA-11	DZ 4	1
MA-12	DZ 8	2
EXIST. MAST ARM SW CORNER	DZ 2	4
EXIST. MAST ARM NE CORNER	DZ 1, 6	3
	DZ 6	4

REVISIONS				<small>Engineer of Record: Aaron M. Johnson P.E. License No. 72943 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5001</small>	<small>STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION</small>			<h2 style="margin: 0;">SIGNALIZATION PLAN (5A)</h2>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-12
					SR 400	ORANGE	444315-1-52-01		

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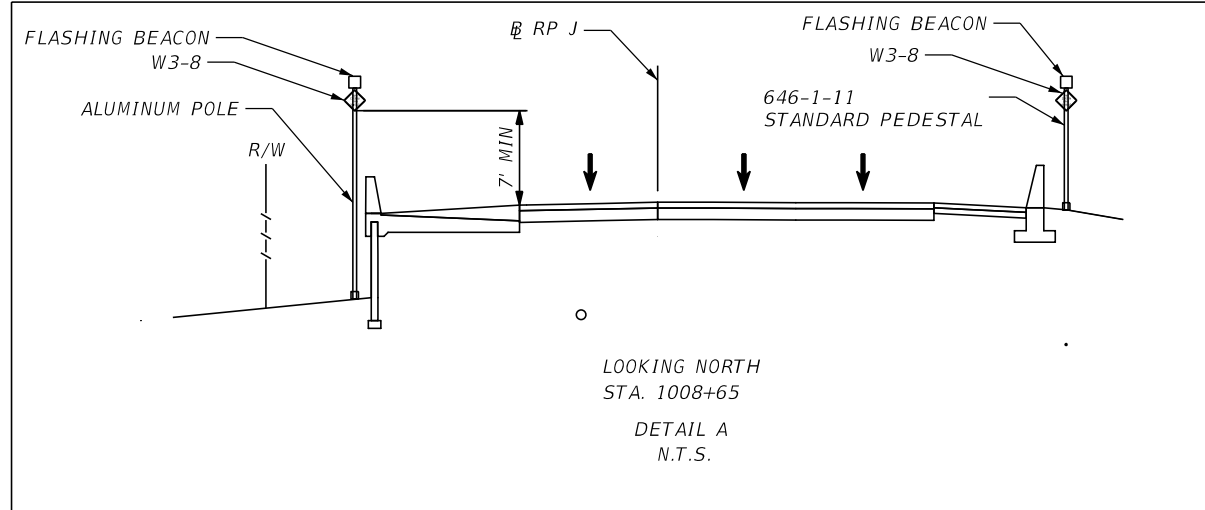


SEE DETAIL A BELOW
 646-2-120 1 EA
 700-3-101 1 EA

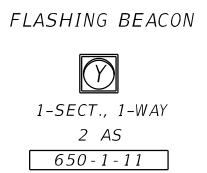
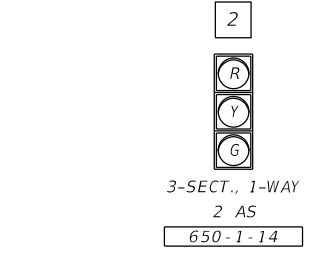


SEE ITS PLANS FOR DROP CABLE AND SPLICE DIAGRAM

- 633-1-121 1 EA
- 633-3-13 1 EA
- 633-3-15 1 EA
- 635-2-11 1 EA
- 639-3-12 1 EA
- 646-1-11 1 EA
- 660-1-109 6 EA
- 670-5-111 1 EA
- 684-1-1 1 EA



RAMP J
RAMP METER



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

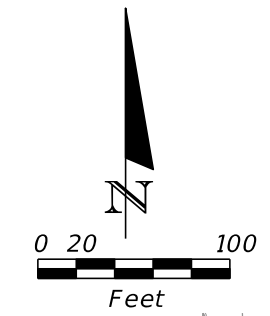
Engineer of Record: Aaron M. Johnson
 P.E. License No. 72943
 Jacobs Engineering Group, Inc.
 200 S. Orange Avenue, Suite 900
 Orlando, FL 32801
 PH (407) 903-5001

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

SIGNALIZATION PLAN

SHEET NO.
T-13

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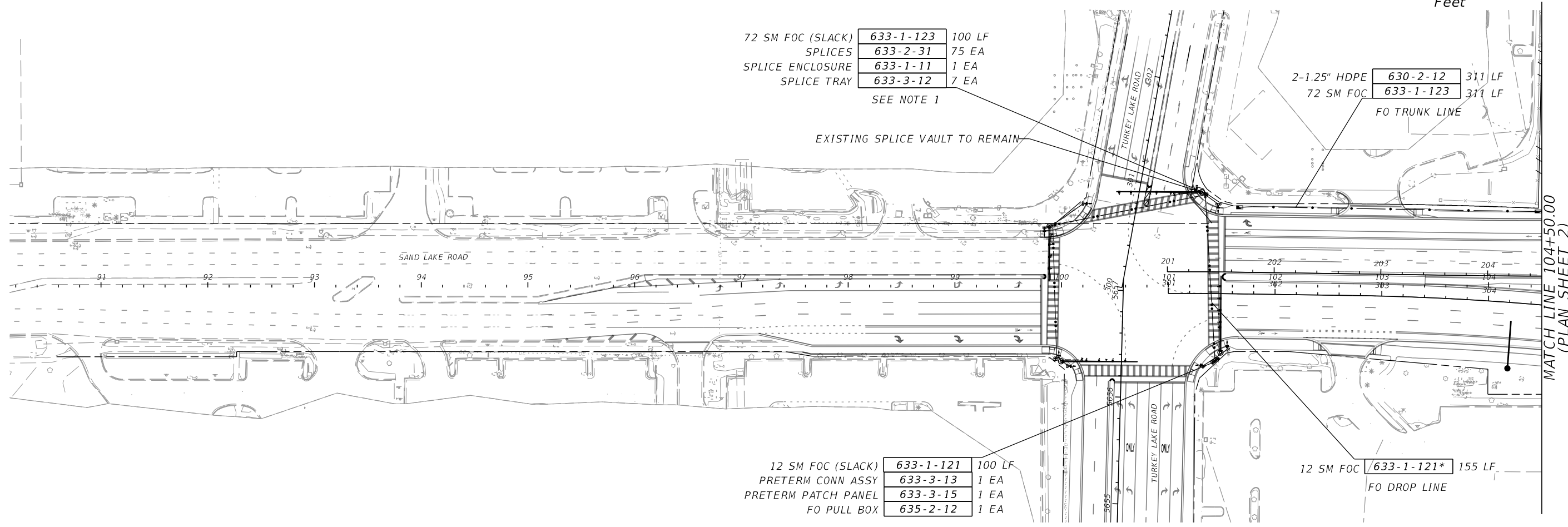


72 SM FOC (SLACK)	633-1-123	100 LF
SPLICES	633-2-31	75 EA
SPLICE ENCLOSURE	633-1-11	1 EA
SPLICE TRAY	633-3-12	7 EA
SEE NOTE 1		

2-1.25" HDPE	630-2-12	311 LF
72 SM FOC	633-1-123	311 LF
FO TRUNK LINE		

12 SM FOC (SLACK)	633-1-121	100 LF
PRETERM CONN ASSY	633-3-13	1 EA
PRETERM PATCH PANEL	633-3-15	1 EA
FO PULL BOX	635-2-12	1 EA

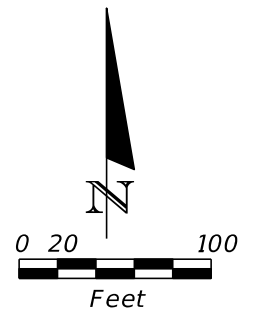
12 SM FOC	633-1-121*	155 LF
FO DROP LINE		



NOTE 1: PROPOSED 72 SM FOC BACKBONE TO BE SPLICED TO EXISTING BACKBONE.
 NOTE 2: CORRESPONDING CONDUIT AT THESE LOCATIONS ARE CALLED ON THE SIGNAL PLANS SHEETS

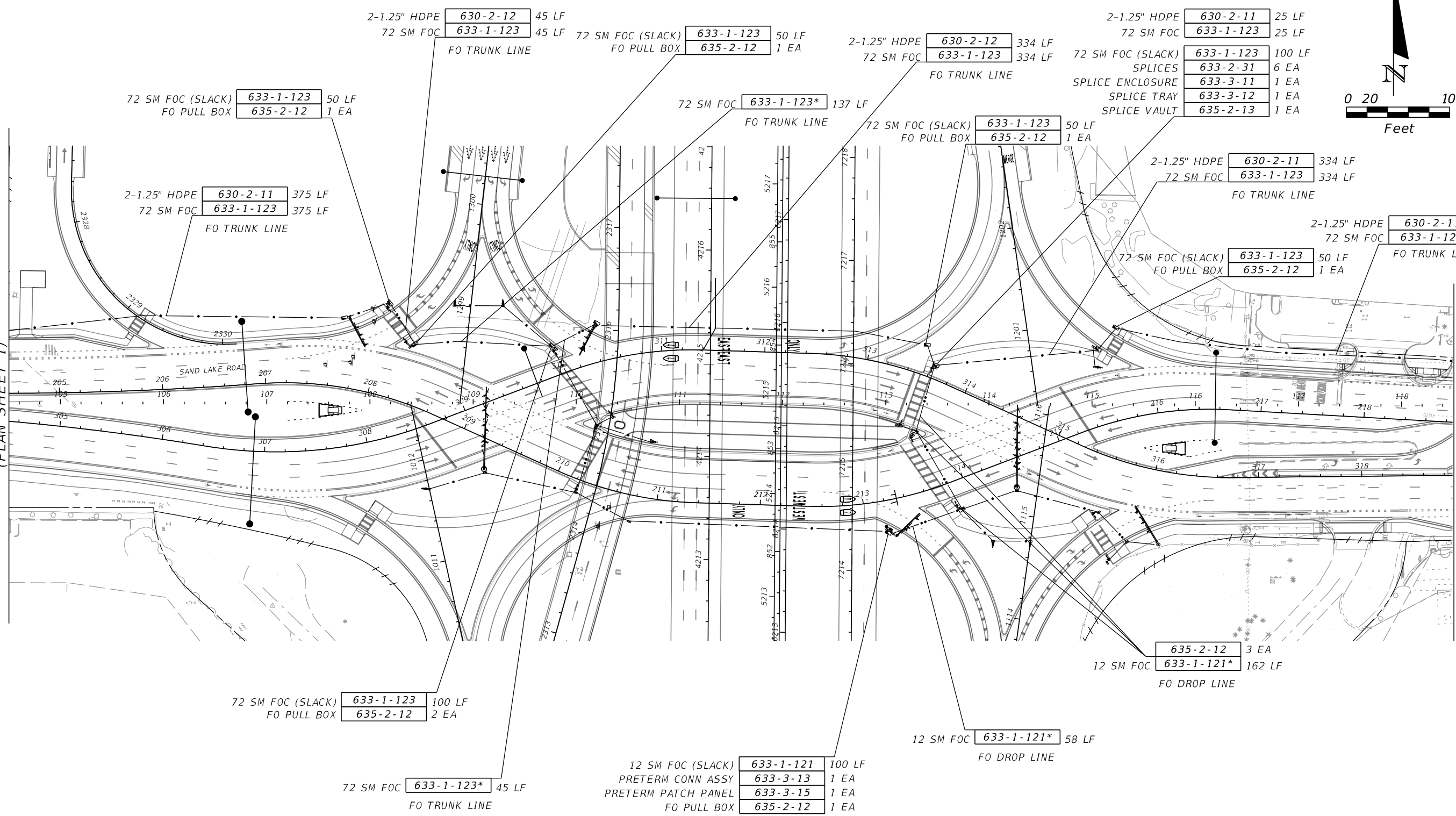
SAND LAKE RD

REVISIONS				Engineer of Record: Aaron M. Johnson P.E. License No. 72943 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5001	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			INTERCONNECT PLAN (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					SR 400	ORANGE	444315-1-52-01		T-14



MATCH LINE 104+50.00
(PLAN SHEET 1)

MATCH LINE 104+50.00
(PLAN SHEET 3)

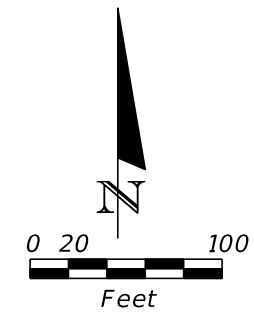


NOTE
* CORRESPONDING CONDUIT AT THESE LOCATIONS ARE CALLED
ON THE SIGNAL PLANS SHEETS

SAND LAKE RD

REVISIONS				Engineer of Record: Aaron M. Johnson P.E. License No. 72943 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5001	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-15
DATE	DESCRIPTION	DATE	ROAD NO.		COUNTY	FINANCIAL PROJECT ID		
			SR 400		ORANGE	444315-1-52-01		

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72 SM FOC (SLACK)	633-1-123	100 LF
SPLICES	633-2-31	72 EA
SPLICE ENCLOSURE	633-1-123	1 EA
SPLICE TRAY	633-3-12	6 EA

SEE NOTE 1

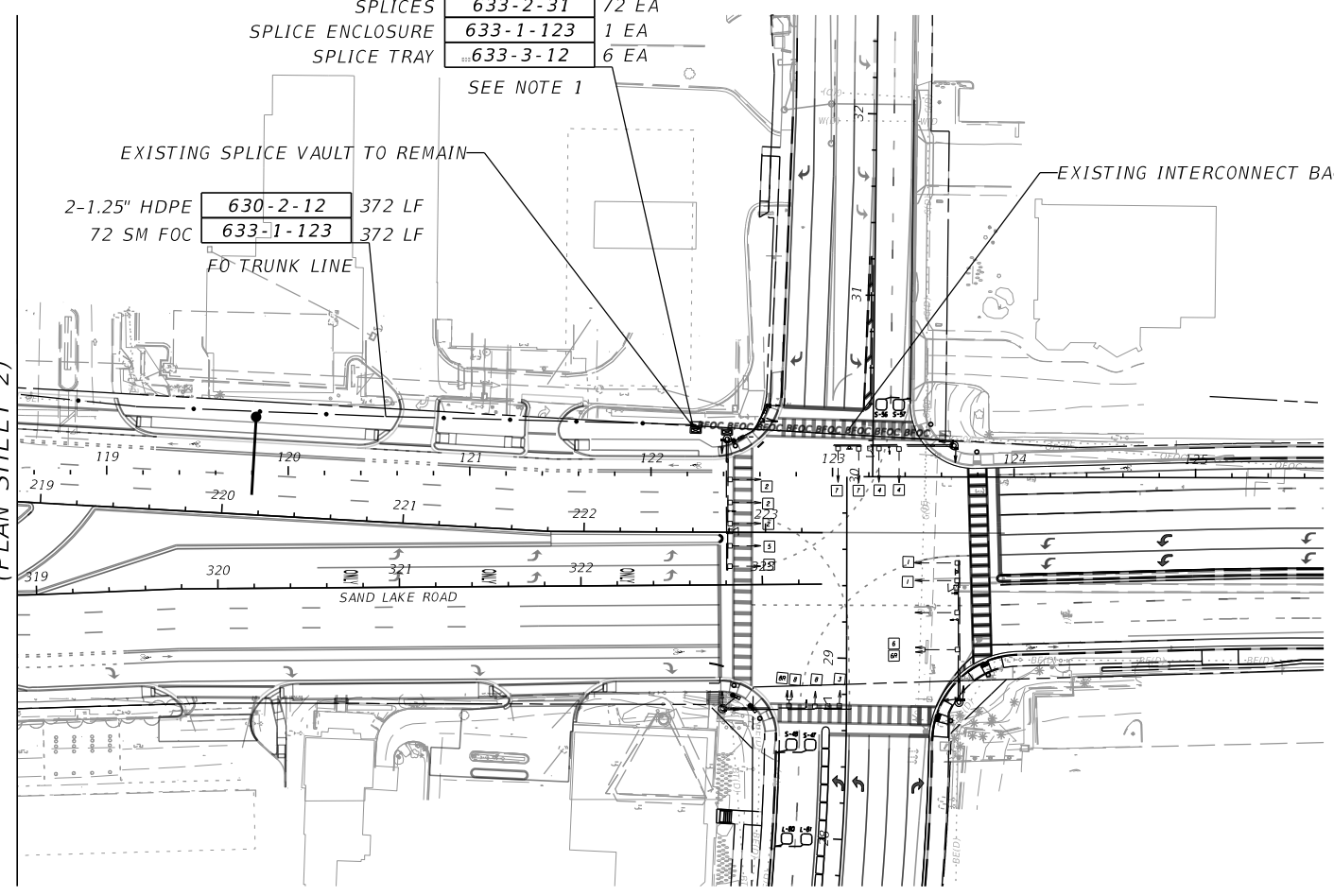
EXISTING SPLICE VAULT TO REMAIN

2-1.25" HDPE	630-2-12	372 LF
72 SM FOC	633-1-123	372 LF

FO TRUNK LINE

EXISTING INTERCONNECT BACKBONE

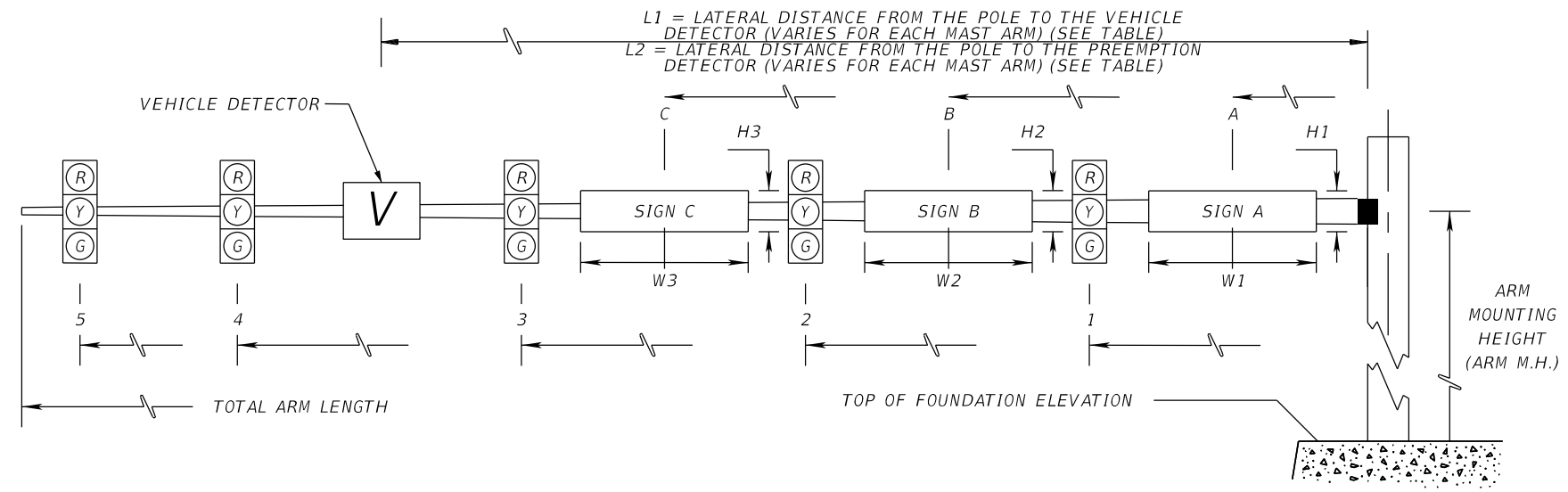
MATCH LINE 104+50.00
(PLAN SHEET 2)



NOTE 1: PROPOSED 72 SM FOC BACKBONE TO BE SPLICED TO EXISTING BACKBONE.

SAND LAKE RD

REVISIONS				Engineer of Record: Aaron M. Johnson P.E. License No. 72943 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5001	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>INTERCONNECT PLAN (3)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-16
					SR 400	ORANGE	444315-1-52-01		



* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUNDATION ELEVATION	RDWY ARM NO.	CROWN ELEV.	SIGNAL DATA													TOTAL ARM LENGTH	ARM M.H.	∠ BETWEEN DUAL ARMS 90/270	ADDITIONAL ATTACHMENT DATA												PAINT COLOR			
						SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE FACE													DISTANCE FROM POLE TO ATTACHMENT															
									1	*	2	*	3	*	4	*	5	*				6	*	A	H1	W1	B	H2	W2	C	H3	W3	L1		L2		
1	T-5	99+88	123.55	1	123.46	V	Y	N	15.6	3	27.5	3	38.4	3					50	20	-	10.2	4	3	21.6	2	9	46.1	3	3				23.3'	25.8'	BLACK	
2	T-5	101+31	123.70	1	123.12	V	Y	N	11	3	19	3	27	3	40.5	3	64.5	3	75.5	3	78	20	-	5	4	3	14.9	2	8				44'	46.5'	BLACK		
3	T-5	101+48	123.74	1	123.97	V	Y	N	26.6	3	38	3	48.9	3	60	3			70	20	-	6.2	2	9									32'	34.5'	BLACK		
4	T-5	99+99	122.73	1	122.24	V	Y	N	21.8	3	33.7	3	46.4	3	58.2	3			70	20	-	4.8	2	8	12	1.5	2						38'	40.5'	BLACK		
5	T-7	207+72	125.91	1	125.81	H	Y	N	17.4	3	28.0	3							30	20	-	6.4	4	3	14.3	3	2.5	24.9	3	2.5				20.5'	22.2'	BLACK	
6	T-7	310+44	125.86	1	126.27	H	Y	N	11.8	3	23.7	3							30	20	-	2	4	3	8	3	2.5	20.3	3	2.5				14'	17.7'	BLACK	
7	T-7	308+98	127.89	1A	127.05	H	Y	N	37.1	3	52.1	3	67.8	3					78	20	-	44.4	3	2.5	59.8	3	2.5	74.4	3	3				54.3'	49.4'	BLACK	
				1B	127.05				25.9	3	41.6	3	56.2	3	70.1	3							15	3	3	29.8	3	2.5	60	3	2.5				44.8'	47.2'	
8	T-9	213+26	126.62	1	126.64	H	Y	N	12.2	3	24.2	3							30	20	-	6.3	4	3	15.4	3	2.5	26.9	3	2.5				14.6'	10.2'	BLACK	
9	T-9	314+84	128.12	1A	127.42	H	Y	N	28.7	3	44.1	3	60.2	3					78	20	-	21.8	3	3	37.1	3	2.5	55.8	3	2.5				46.7'	41.3'	BLACK	
				1B	127.42				21.3	3	34.7	3	50.9	3	65.9	3							27.5	3	2.5	58.8	3	2.5	73.3	3	3				44.5'	41.2'	
10	T-9	316+14	126.23	1	126.16	H	Y	N	22.2	3	34.3	3							40	20	-	16.2	4	3	25.2	3	2.5	36.9	3	2.5				31.9'	28.1'	BLACK	
EX-15	T-10	223+32	126.18		124.50	V	Y	N	27.8	5	37.0	3	48.1	3	65.8	3	75.4	3	77	20	-													61.8'	44.2'	BLACK	
11	T-11	5637+40	118.42	1	117.01	V	Y	N	19.2	3	31.8	3							40	20	-	4.5	2	9									26.3'	23.8'	BLACK		
12	T-11	5637+76	120.41	1	120.08	V	Y	N	11.6	3	23.1	3							30	20	-	5.0	2	9	14.4	2.5	3	19.5	2.5	3				17.8'	16.6'	BLACK	
EX-13	T-11	5638+67	118.39	1	118.93	V	Y	N	20.6	3	34.0	3	42.4	3	50.2	4			60	20	-												27.8'	30.3'	BLACK		
EX-14	T-11	5637+28	118.67		119.63	V	Y	N	14.5	3	26.8	3							50	20	-	7	2	8.5									19.2'	21.8'	BLACK		

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineer of Record: Aaron M. Johnson
 P.E. License No. 72943
 Jacobs Engineering Group, Inc.
 200 S. Orange Avenue, Suite 900
 Orlando, FL 32801
 PH (407) 903-5001

STATE OF FLORIDA
 DEPARTMENT OF TRANSPORTATION

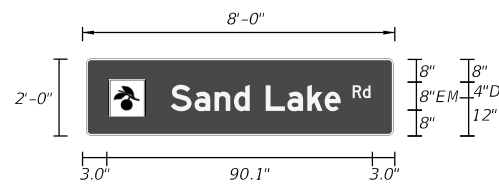
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 400	ORANGE	444315-1-52-01

SHEET NO.
T-17

MAST ARM TABULATION

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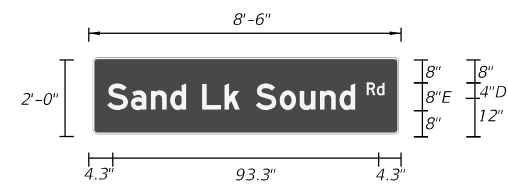
SIGN NAME	SLR-MA-02	QTY	4	SIGN NO.	STATION(S)
PANEL	BORDER				Mast Arm
WIDTH	8'-0"	WIDTH	0.5"		
HEIGHT	2'-0"	RADII	1.5"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
Orange County logo	0°	3"	6"	11"	12"
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE	AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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COPY		S	a	n	d		L	a	k	e		R	d	L					
SPACE	18.0	7.4	7.8	8.5	6.2	8.0	6.1	7.8	7.8	6.2	4.0	2.9	2.6	3.0	90.1				
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

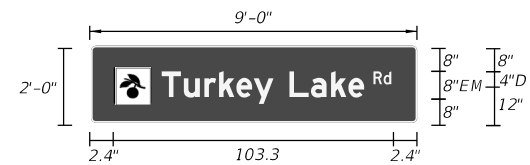
SIGN NAME	SLR-MA-04	QTY	2	SIGN NO.	STATION(S)
PANEL	BORDER				Mast Arm
WIDTH	8'-6"	WIDTH	0.5"		
HEIGHT	2'-0"	RADII	1.5"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE	AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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COPY		S	a	n	d		L	k	S	o	u	n	d		R	d	L		
SPACE	4.3	7.0	5.9	6.3	5.4	8.0	6.3	5.5	8.0	7.0	6.1	6.3	6.3	5.4	4.0	2.9	2.6	4.3	93.3
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

SIGN NAME	TLR-MA-03	QTY	4	SIGN NO.	STATION(S)
PANEL	BORDER				Mast Arm
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
Orange County logo	0°	2.4"	6"	11"	12"
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE	AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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COPY		T	u	r	k	e	y		L	a	k	e		R	d	L			
SPACE	17.4	6.2	8.5	5.9	7.8	7.0	7.5	8.0	6.1	7.8	7.8	6.2	4.0	2.9	2.6	3.0	90.1		
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

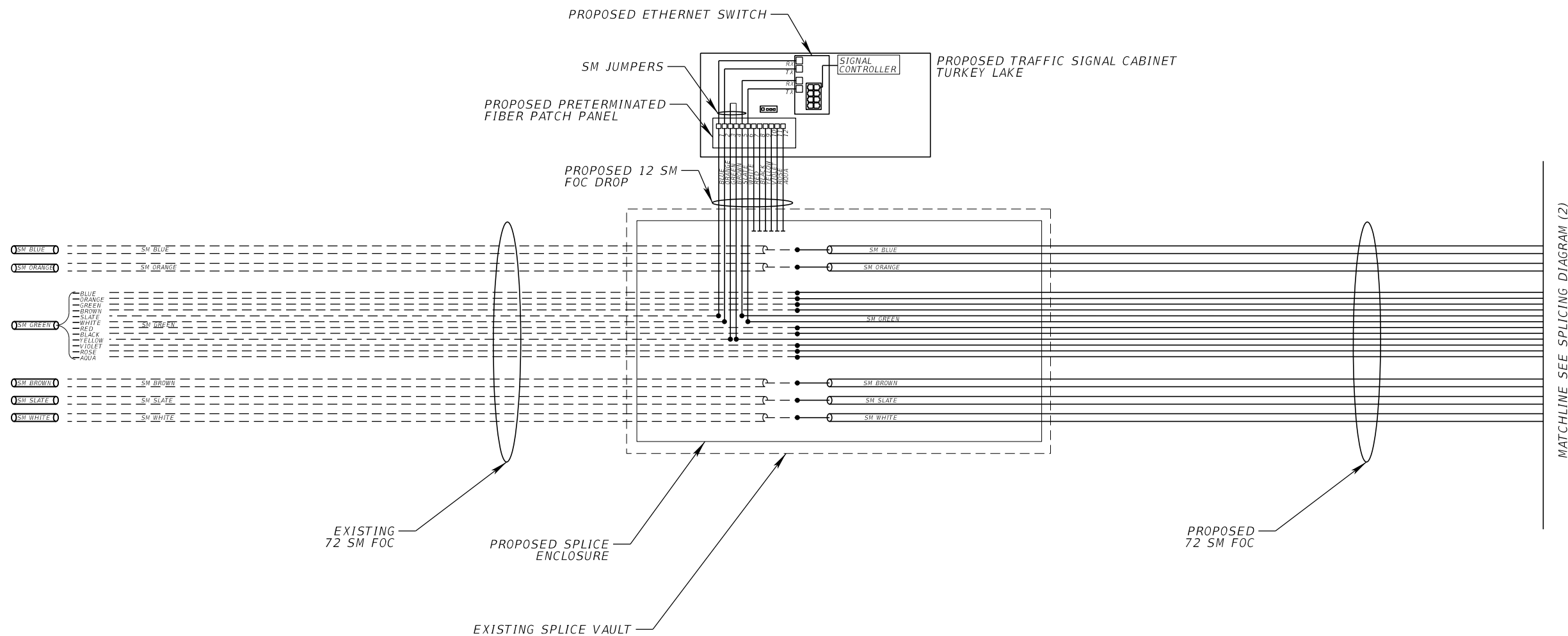
SIGN NAME		QTY		SIGN NO.	STATION(S)
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NO.	NO. OF POSTS	EDGE OF LANE CLEARANCE	COLUMN SIZE	AVERAGE LENGTH	

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE
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COPY																			
SPACE																			
COPY																			
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SPACE																			
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SPACE																			

REVISIONS				Engineer of Record: Aaron M. Johnson P.E. License No. 72943 Jacobs Engineering Group, Inc. 200 S. Orange Avenue, Suite 900 Orlando, FL 32801 PH (407) 903-5001	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-18
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
					SR 400	ORANGE	444315-1-52-01	
GUIDESIGN WORKSHEET								

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

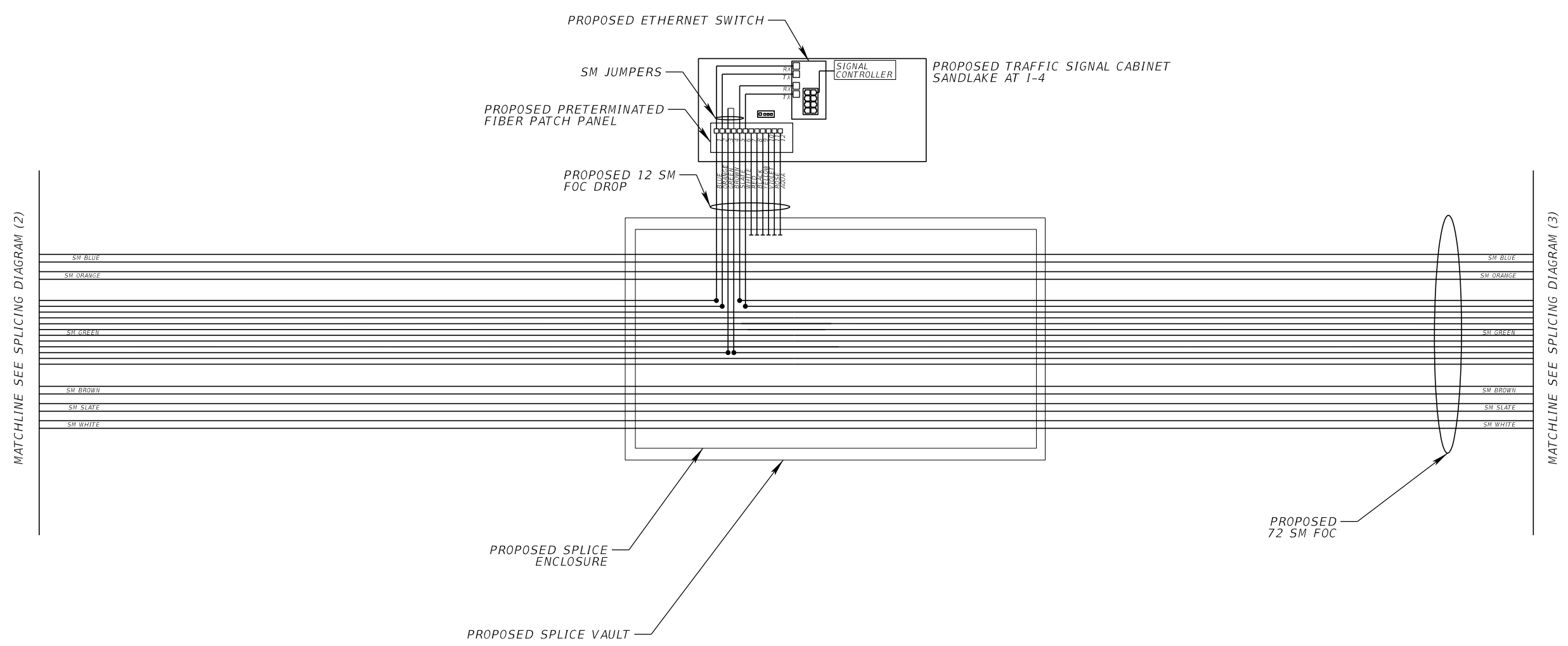


MATCHLINE SEE SPLICING DIAGRAM (2)

LEGEND:

- FUSION SPLICE (PROPOSED)
- FUSION SPLICE (EXISTING)
- CONNECTORIZED (PROPOSED)
- ◻ CONNECTORIZED (EXISTING)
- UNTERMINATED FIBER
- SM SINGLE MODE
- PROPOSED FIBER
- - - EXISTING FIBER
- ◻ CCTV CCTV CAMERA
- SM BLUE BUFFER TUBE
- ◻ VDS PROPOSED DEVICE
- ◻ VDS EXISTING DEVICE
- PRETERMINATED PATCH PANEL
- ETHERNET SWITCH

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>ITS SPLICING DIAGRAM (1)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-19
				400	ORANGE	242484-7-32-01		



LEGEND:

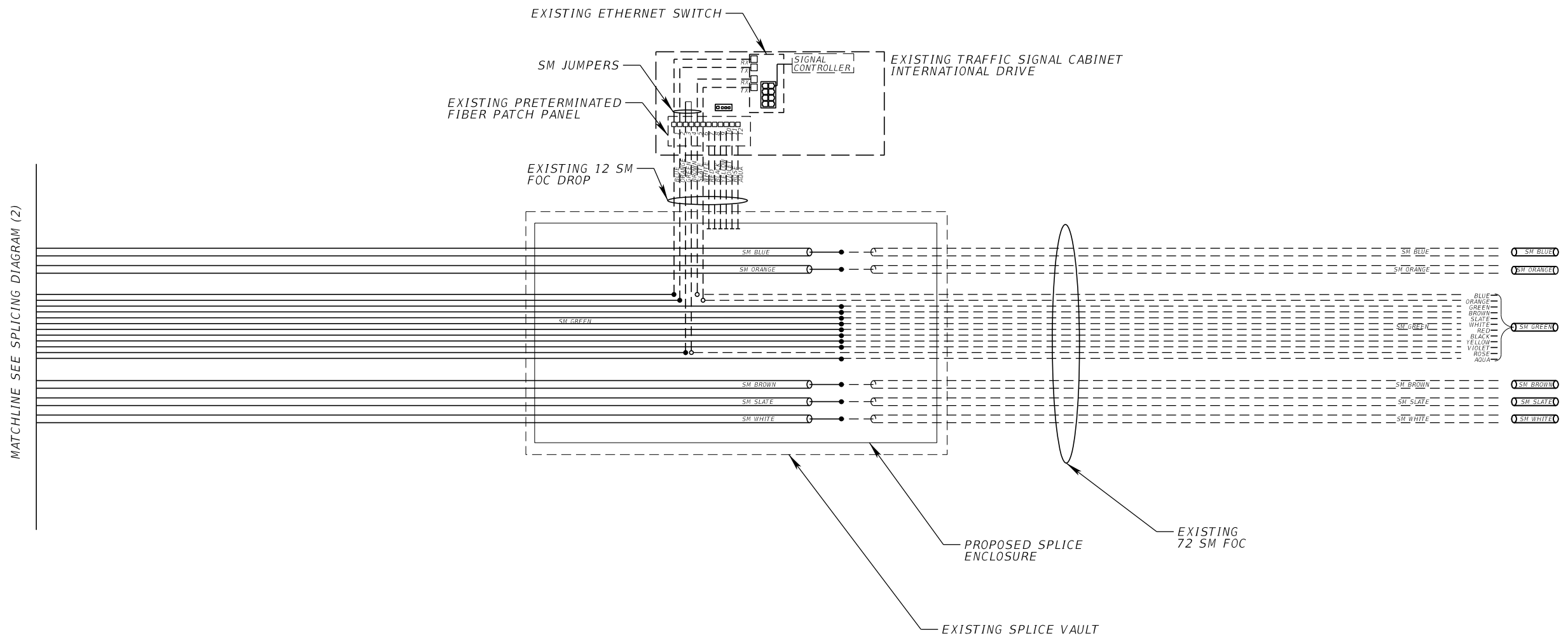
- FUSION SPLICE (PROPOSED)
- FUSION SPLICE (EXISTING)
- CONNECTORIZED (PROPOSED)
- ◻ CONNECTORIZED (EXISTING)
- UNTERMINATED FIBER
- SM SINGLE MODE
- PROPOSED FIBER
- - - EXISTING FIBER
- ◻ CCTV CCTV CAMERA
- SM BLUE BUFFER TUBE

[VDS] PROPOSED DEVICE
 [VDS] EXISTING DEVICE

PRETERMINATED PATCH PANEL

ETHERNET SWITCH

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ITS SPLICING DIAGRAM (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
				400	ORANGE	242484-7-32-01		T-20



LEGEND:

- FUSION SPLICE (PROPOSED)
- FUSION SPLICE (EXISTING)
- CONNECTORIZED (PROPOSED)
- ◻ CONNECTORIZED (EXISTING)
- UNTERMINATED FIBER
- SM SINGLE MODE
- PROPOSED FIBER
- - - EXISTING FIBER
- ▶ CCTV CCTV CAMERA
- SM BLUE BUFFER TUBE

[VDS] PROPOSED DEVICE
 [VDS] EXISTING DEVICE

[Patch Panel Icon] PRETERMINATED PATCH PANEL
 [Ethernet Switch Icon] ETHERNET SWITCH

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			<i>ITS SPLICING DIAGRAM (3)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-21
				400	ORANGE	242484-7-32-01		