

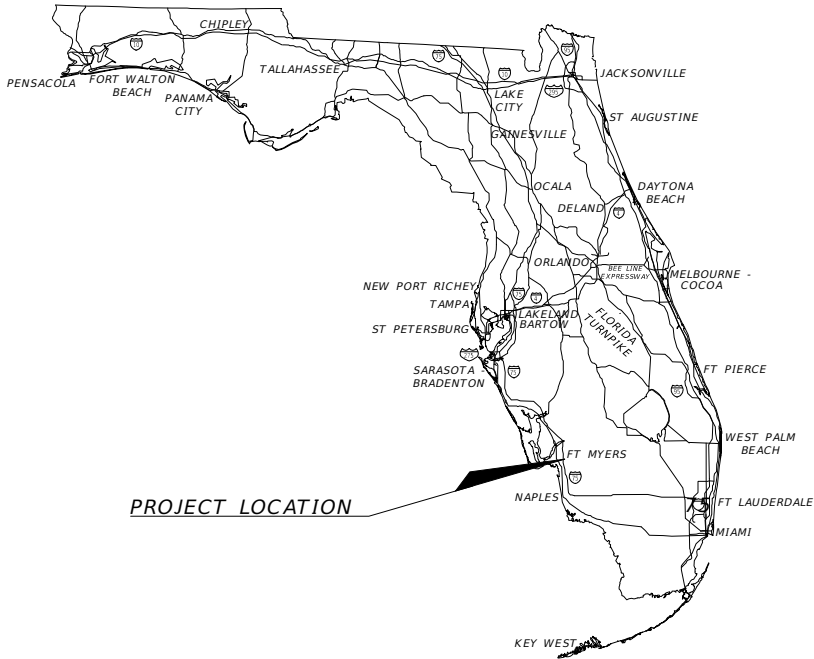
LEE COUNTY
DEPARTMENT OF TRANSPORTATION

SIGNALIZATION PLANS

FINANCIAL PROJECT ID: 451388-1-58-01

PROJECT ID: 21015
LEE COUNTY

TREELINE AVENUE & DANIELS PARKWAY
ROADWAY IMPROVEMENTS



INDEX OF SIGNALIZATION PLANS

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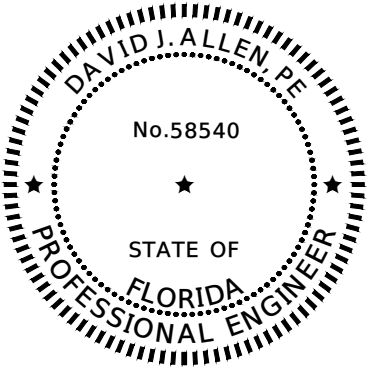


SIGNALIZATION PLANS ENGINEER OF RECORD:

DAVID J. ALLEN, PE
P.E. NO. 58540
STANTEC CONSULTING SERVICES, INC.
3915 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA 33578
PH: 813-664-4500

LEE COUNTY PROJECT MANAGER:
JILLIAN SCHOLLER, P.E.
DEPUTY DIRECTOR
LEE COUNTY DEPT. OF TRANSPORTATION

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	25	T-1



THIS ITEM HAS BEEN DIGITALLY
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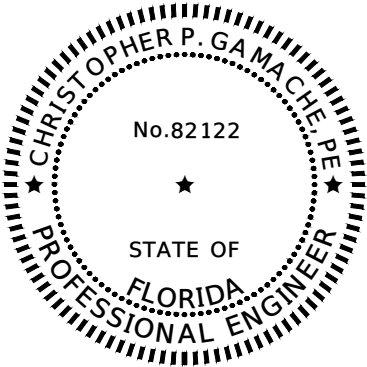
ON THE DATE ADJACENT TO THE SEAL

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STANTEC CONSULTING SERVICES, INC.
3915 CRESCENT PARK DRIVE
RIVERVIEW, FL 33578
DAVID J. ALLEN, P.E. NO. 58540

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

SHEET NO.	DESCRIPTION
T-1	KEY SHEET
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STANTEC CONSULTING SERVICES, INC.
380 PARK PLACE BLVD SUITE 300
CLEARWATER, FL 33579
CHRISTOPHER P. GAMACHE, P.E. NO. 82122

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

SHEET NO.	DESCRIPTION
T-2	SIGNATURE SHEET
T-11	CONCRETE STRAIN POLE SCHEDULE

R E V I S I O N S				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 STANTEC CONSULTING SERVICES, INC. 3915 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION		DATE		ROAD NAME	COUNTY	PROJECT ID		
					TREELINE	LEE	451388-1-58-01		
									T-2

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TABULATION OF QUANTITIES																				
PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			T-5		T-8		T-10													
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
ASB-1	AS-BUILT PLANS	LS																	1	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	295		305		5										605		605	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	1575		945												2520		2520	
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF	370														370		370	
632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	1		1												2		2	
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	PI	1		1												2		2	
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND,2-12 FIBERS	LF	100														100		100	
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA	24														24		24	
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	2														2		2	
633-3-13	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED CONNECTOR ASSEMBLY	EA	1														1		1	
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA	1														1		1	
633-3-17	FIBER OPTIC CONNECTION HARDWARE, F&I, CONNECTOR PANEL	EA	1														1		1	
634-4-153	SPAN WIRE ASSEMBLY, F&I, TWO POINT, BOX OR DROP BOX	PI	1														1		1	
634-4-600	SPAN WIRE ASSEMBLY, REMOVE- POLES REMAIN	PI	1														1		1	
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	5														5		5	
635-2-14	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA	24		20		1										45		45	
635-2-15	PULL & SPLICE BOX, F&I, 30" X 48" COVER SIZE	EA	1														1		1	
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	10														10		10	
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	8		8												16		16	
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA	8		6												14		14	
650-1-14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	33														33		33	
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	8		8												16		16	
653-1-60	PEDESTRIAN SIGNAL, REMOVE PED SIGNAL- POLE/PEDESTAL TO REMAIN	AS			2												2		2	
660-1-109	LOOP DETECTOR INDUCTIVE, F&I, TYPE 9	EA	19		14												33		33	
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	AS	12		14												26		26	
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	AS	25		13												38		38	
660-4-11	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA	1														1		1	
660-4-12	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA	4														4		4	
660-4-61	VEHICLE DETECTION SYSTEM- VIDEO, REMOVE CABINET EQUIPMENT	EA	1														1		1	
660-4-62	VEHICLE DETECTION SYSTEM- VIDEO, REMOVE ABOVE GROUND EQUIPMENT	EA	4														4		4	
660-6-121	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA	1														1		1	
660-6-122	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	1														1		1	
660-6-600	VEHICLE DETECTION SYSTEM- AVI, REMOVE COMPLETE SYSTEM	EA	1														1		1	
665-1-12	PEDESTRIAN DETECTOR, FURNISH & INSTALL, ACCESSIBLE	EA	8		8												16		16	
665-1-60	PEDESTRIAN DETECTOR, REMOVE- POLE/PEDESTAL TO REMAIN	EA			2												2		2	
670-5-110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS	1														1		1	
670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS	1														1		1	
682-1-173	ITS CCTV CAMERA, NON-PRESSURIZED, IP, HIGH DEFINITION	EA	1														1		1	
682-1-600	ITS CCTV CAMERA, REMOVE	EA	1														1		1	
684-1-1	MANAGED MULTILAYER ETHERNET SWITCH, FURNISH & INSTALL	EA	1														1		1	
685-1-14	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, ONLINE/DOUBLE CONVERSION WITH CABINET	EA	1														1		1	
685-2-1	REMOTE POWER MANAGEMENT UNIT- RPMU, FURNISH AND INSTALL	EA	1														1		1	
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	6														6		6	
700-3-202	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 12-20 SF	EA	4														4		4	
700-5-60	INTERNALLY ILLUMINATED SIGN, REMOVE	EA	4														4		4	
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF					63										63		63	
715-68-000	LIGHT POLE COMPLETE, RELOCATE	EA					1										1		1	

GENERAL NOTES

1. SPECIFICATIONS: ADHERE TO REQUIREMENTS IN "LEE COUNTY DEPARTMENT OF TRANSPORTATION PLAN SUPPLEMENTAL SPECIFICATIONS FOR SIGNAL & STREET LIGHTING", JANUARY 2023. CONTACT LEE COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT) FOR ANY QUESTIONS REGARDING EQUIPMENT OR INSTALLATION REQUIREMENTS. FOLLOW THE FDOT GOVERNING STANDARDS AND SPECIFICATIONS FOR ALL ITEMS NOT COVERED BY LEE COUNTY SPECIFICATIONS.
2. NOTIFICATIONS: PRIOR TO THE START OF ANY CONSTRUCTION OF TRAFFIC SIGNALS, STREET LIGHTING, RRFBS, FLASHERS, SCHOOL FLASHERS, AND ITS DEVICES, LEE COUNTY DOT TRAFFIC SHALL BE NOTIFIED VIA EMAIL LCDOTPROJECTS@LEEGOV.COM AT LEAST TEN (10) BUSINESS DAYS PRIOR.
3. PRELIMINARY PRODUCT AND EQUIPMENT DATA SUBMITTALS: PRIOR TO INSTALLATION OR WITHIN THIRTY (30) DAYS AFTER THE PRECONSTRUCTION MEETING, WHICHEVER COMES FIRST, SUBMIT TO LEE COUNTY DOT TRAFFIC FOR APPROVAL, A COMPLETED SUBMITTAL PACKAGE THAT INCLUDES THE FOLLOWING: ALL TRAFFIC CONTROL SIGNALS, DEVICES, AND HARDWARE THAT WILL BE USED ON THE PROJECT. SHOP DRAWINGS FOR STRUCTURAL SUPPORT MATERIAL AND OTHER SPECIAL DESIGNS, SUCH AS NON-ELECTRICAL, NON-MECHANICAL, OR OTHER FABRICATED ITEMS WHICH MAY NOT BE SPECIFICALLY DETAILED IN THE PLANS VIA EMAIL LCDOTPROJECTS@LEEGOV.COM.
4. ANY PRIVATE OR PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN EXISTING CONDITIONS. CONTRACTOR TO EXERCISE CAUTION WHEN REPLACING DRIVEWAYS, CONSTRUCTING SWALES, GRADING, ETC. TO AVOID CONFLICT WITH SEPTIC SYSTEM DRAIN FIELDS. AT NO ADDITIONAL COST, THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING FACILITIES ABOVE OR BELOW GROUND TO A CONDITION EQUAL OR BETTER THAN EXISTING THAT MAY OCCUR AS A RESULT OF THE WORK PERFORMED BY THE CONTRACTOR.
5. DISCREPANCIES IN FIELD CONDITIONS, PLAN CONDITIONS, OR CODES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.
6. THESE DRAWINGS DO NOT INCLUDE INSTRUCTIONS FOR THE CONTRACTOR REGARDING CONSTRUCTION SAFETY. DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT, ALL SAFETY REGULATIONS ARE TO BE ENFORCED BY THE CONTRACTOR. THE CONTRACTOR OR HIS REPRESENTATIVE SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE PUBLIC AND THE SAFETY OF THEIR PERSONNEL.
7. WHEN WORKING ON OR ADJACENT TO EXISTING STRUCTURES OR APPURTENANCES, ALL PRECAUTIONS FOR CONTINUED SAFETY OF STRUCTURES AND ALL PERSONNEL SHALL BE EXERCISED IN ACCORDANCE WITH THE FLORIDA TRENCH SAFETY ACT AT A MINIMUM.
8. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE APPROVED PLANS AND PERMITS AT THE CONSTRUCTION SITE AT ALL TIMES. THE CONTRACTOR IS RESPONSIBLE TO READ AND UNDERSTAND ALL PERMITS INCLUDING ALL GENERAL AND SPECIAL CONDITIONS. AT OWNER'S OR ENGINEER'S REQUEST, THE CONTRACTOR SHALL PROVIDE APPROPRIATE DOCUMENTATION THAT ALL CONSTRUCTION RELATED CONDITIONS ARE ADHERED TO.
9. IT HAS BEEN THE EXPERIENCE OF THE DEPARTMENT, WITH PROJECTS CONSTRUCTED WITHIN THIS GENERAL GEOGRAPHIC AREA, THAT ALTHOUGH PRELIMINARY BORINGS DID NOT INDICATE A CONSTANT PRESENCE OF ROCK, ROCK WAS ENCOUNTERED WHILE PERFORMING UNDERGROUND INSTALLATIONS. THEREFORE, THE CONTRACTOR SHOULD CONSIDER THE INCREASED COST OF ALL UNDERGROUND WORK ACTIVITIES WHILE PREPARING HIS BID. ALL COST OF ROCK EXCAVATION SHALL BE INCLUDED IN THE APPROPRIATE ITEMS OF WORK CONTAINED WITHIN THE CONTRACT. NO EXTRA COMPENSATION OR TIME EXTENSION WILL BE ALLOWED FOR ADDITIONAL WORK DIRECTLY ASSOCIATED WITH THE SPLITTING, EXCAVATION, CRUSHING, DISPOSAL, REPLACEMENT OF DISPLACED VOLUME OF EXTRACTED ROCK WITH FILL MATERIALS OR SPECIAL HANDLING OF ROCK.

UTILITY NOTES

1. THE LOCATIONS 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 LOCATIONS OR ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
2. REFER TO THE ROADWAY PLANS FOR THE LIST OF UTILITY OWNERS WITHIN THE PROJECT LIMITS.

PAY ITEM NOTES

630-2-14:
INCLUDES REMOVAL OF UNUSED ABOVE GROUND CONDUIT.

632-7-1, 632-7-6:
REPLACE ALL SIGNAL CABLE, UNDERGROUND AND OVERHEAD, AT DANIELS PARKWAY. REPLACE ALL UNDERGROUND CABLE AT HALTER LANE. REMOVE ALL UNUSED CONDUCTORS AND PULL BOXES. PAY ITEM INCLUDES CONDUCTORS TO POWER INTERSECTION LIGHTING AT DANIELS PARKWAY.

PAY ITEM NOTES (CONT.)

634-4-153, 634-4-600:
REMOVE EXISTING SPAN WIRE ASSEMBLY PRIOR TO INSTALLATION OF PROPOSED SIGNAL HEADS OR SIGNS. RETURN REMOVED SIGNAL HEADS TO LCDOT. DISPOSE OF ALL ELSE.

635-2-12, 635-2-14:
COORDINATE CONCRETE REPLACEMENT WITH THE ROADWAY CONTRACTOR. PAY ITEMS INCLUDE REMOVAL AND DISPOSAL OF ALL UNUSED PULL BOXES.

646-1-11:
THE INSTALLATION OF THE PEDESTAL PRECAST FOUNDATIONS FOR 646-1-11 SHALL BE COORDINATED WITH CONCRETE SIDEWALK. THE PRECAST FOUNDATIONS SHALL NOT BE INSTALLED UNTIL THE CONCRETE SIDEWALK IS READY TO BE FORMED. IN THE EVENT THE PRECAST FOUNDATIONS ARE IN CONFLICT WITH UTILITIES OR THE PREFORMED CONCRETE FOUNDATIONS DO NOT WORK FOR SIDEWALK CONFIGURATION, A PEDESTAL SPREADFOOTER SHALL BE INSTALLED AT NO ADDITIONAL COST TO THE COUNTY. REFER TO FDOT INDEX 646-001 FOR DETAILS ON INCORPORATION OF THE PRECAST FOUNDATION INTO SIDEWALK CURB.

646-1-60, 653-1-60, 665-1-60:
RETURN REMOVED PEDESTRIAN HEADS AND DETECTORS TO LCDOT. DISPOSE OF ALL ELSE.

650-1-14:
ALL PROPOSED SIGNAL HEADS SHALL BE EQUIPPED WITH FLEXIBLE BACKPLATES.

660-4-11, 660-4-12, 660-4-61, 660-4-62:
PAY ITEMS INCLUDE REMOVAL AND REPLACEMENT OF THE BIKE BOX VIDEO DETECTORS MOUNTED ON TOP OF THE STRAIN POLES AT DANIELS PARKWAY. THE PROPOSED CAMERAS SHALL BE THE ITERIS VANTAGE NEXT SYSTEM WITH FOUR NEXT CAMERAS. DELIVER REMOVED CAMERAS AND EQUIPMENT TO LCDOT.

660-6-121, 660-6-122, 660-6-600:
THE PROPOSED BLUETOOTH AVI SHALL BE A BLUETOAD SPECTRA ETHERNET. DELIVER REMOVED AVI EQUIPMENT TO LCDOT.

665-1-12:
USE POLARA INS2 2-WIRE SYSTEM. SEE LCDOT SPECIFICATIONS FOR MORE INFORMATION.

IF PEDESTRIAN PUSH BUTTON EXTENSIONS ARE REQUIRED TO MEET THE 10" REACH, THEY SHALL FURNISHED AND INSTALLED AT NO ADDITIONAL COST TO THE COUNTY.

670-5-110:
THE TRAFFIC CONTROLLER ASSEMBLY SHALL BE A MCCAIN 350i ATCC-HV 16/48 - LEE COUNTY. TRAFFIC SIGNAL CONTROLLER SHALL BE ECONOLITE/SAFETRAN RM WITH EOS SW. SEE LCDOT SPECIFICATIONS FOR OTHER REQUIREMENTS. PROVIDE A FIBER-READY ASSEMBLY AND INTEGRATE INTO THE ATMS NETWORK.

670-5-600:
REMOVE ENTIRE CONTROLLER ASSEMBLY WITH FOUNDATION. RETURN REMOVED CABINETS AND INTERNAL COMPONENTS TO LCDOT. DISPOSE OF ALL ELSE.

682-1-173, 682-1-600:
THE PROPOSED CAMERA SHALL BE HARDENED NETWORKS AND INCLUDE THE FOLLOWING COMPONENTS: HARDENED NETWORKS HN-AIS-8300 AND HN-AIS-8300-24V-KIT. CAMERA SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS. DELIVER REMOVED CAMERA AND EQUIPMENT TO LCDOT.

684-1-1:
THE MANAGED LAYER 2 SWITCH SHALL BE A CISCO IE 3300 WITH THE FOLLOWING COMPONENTS:
A. CISCO IE-3300-8T2X-E
B. IEM-3300-6T2S
C. SFP OPTIC MODULE SFP-10G-LR-PRO
D. CISCO POWER SUPPLY PWR-1E65W-PC-AC=

685-1-14:
UPS SHALL BE A ECONOLITE ZINCBLUE2 XRT 1500 SYSTEM WITHIN THE CONTROLLER CABINET. CONTACT LCDOT FOR MORE INFORMATION.

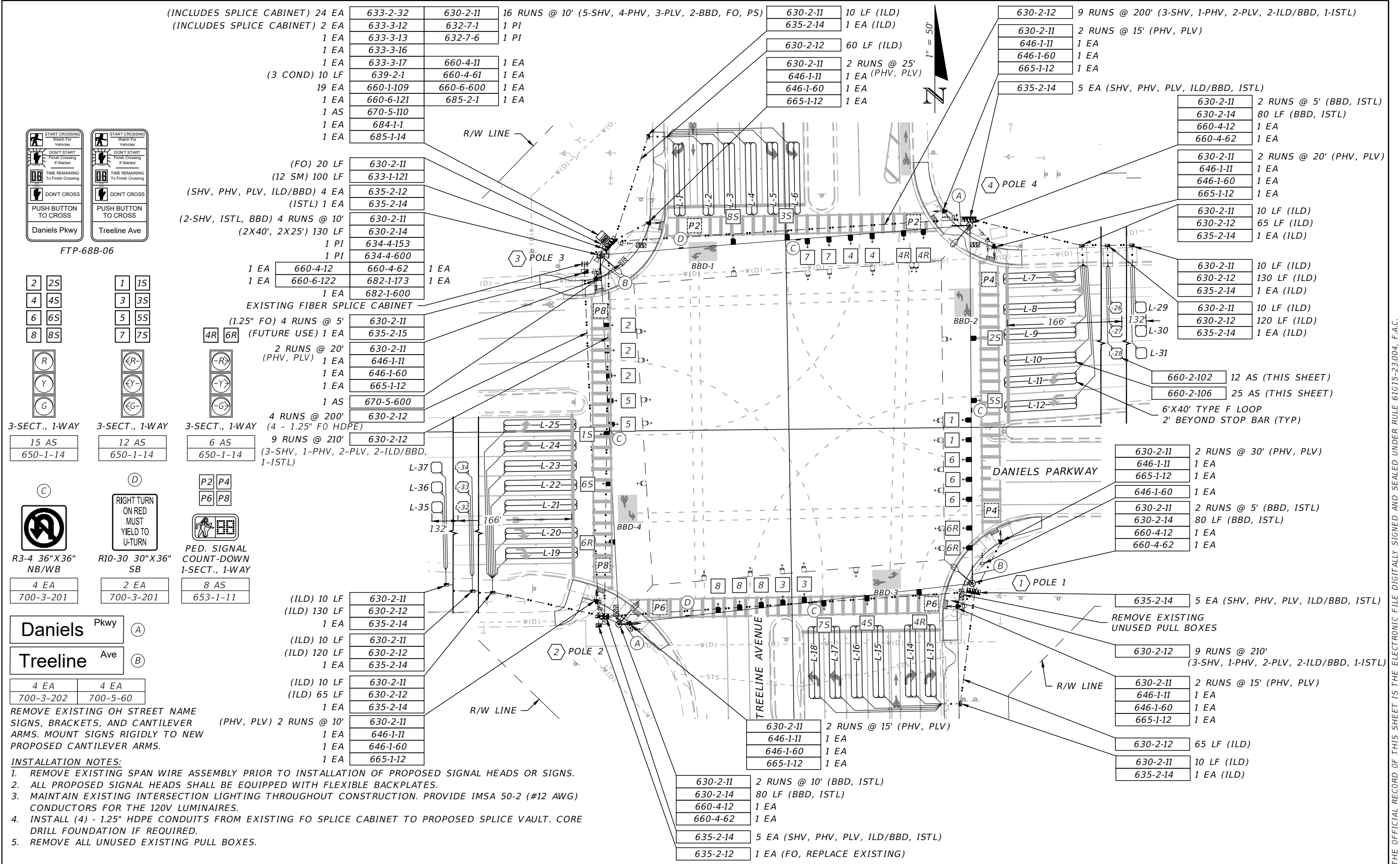
685-2-1:
THE REMOTE POWER MANAGEMENT UNIT SHALL BE A DIGITAL LOGGERS ETHERNET POWER CONTROLLER 7.

700-5-60:
RETURN REMOVED SIGNS AND BRACKETS TO LCDOT.

CONDUIT AND PULL BOX LEGEND	
SHV	= SIGNAL HIGH VOLTAGE
PHV	= PEDESTRIAN SIGNAL HIGH VOLTAGE
PLV	= PEDESTRIAN DETECTOR
BBD	= BIKE BOX DETECTION
ILD	= INDUCTIVE LOOP DETECTION
ISTL	= INTERSECTION STREET LIGHTING
FO	= FIBER OPTIC
PS	= POWER SERVICE

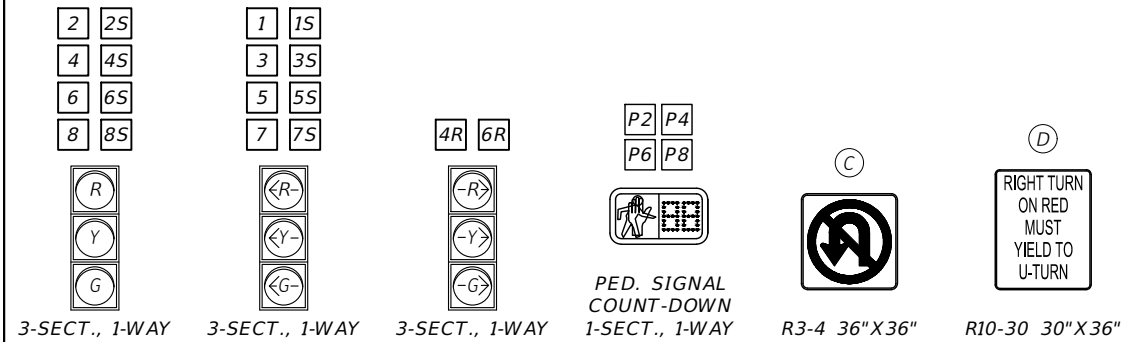
REVISIONS				LEE COUNTY DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NAME	COUNTY	PROJECT ID		
				TREELINE	LEE	451388-1-58-01		T-4

DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
STANTEC CONSULTING SERVICES, INC.
3915 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA 33578

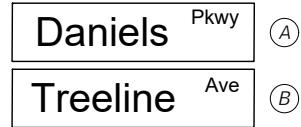


REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 STANTEC CONSULTING SERVICES, INC. 3915 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578	LEE COUNTY DEPARTMENT OF TRANSPORTATION		SIGNALIZATION PLAN (1)	SHEET NO. T-5
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY		
					TREELINE	LEE	451388-1-58-01	

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



CONTROLLER OPERATION



1. MAJOR STREET IS DANIELS PARKWAY, MINOR STREET IS TREELINE AVENUE. ALL MOVEMENTS SHALL FLASH RED DURING FLASHING OPERATION.
2. SIGNAL SHALL OPERATE AS SHOWN.

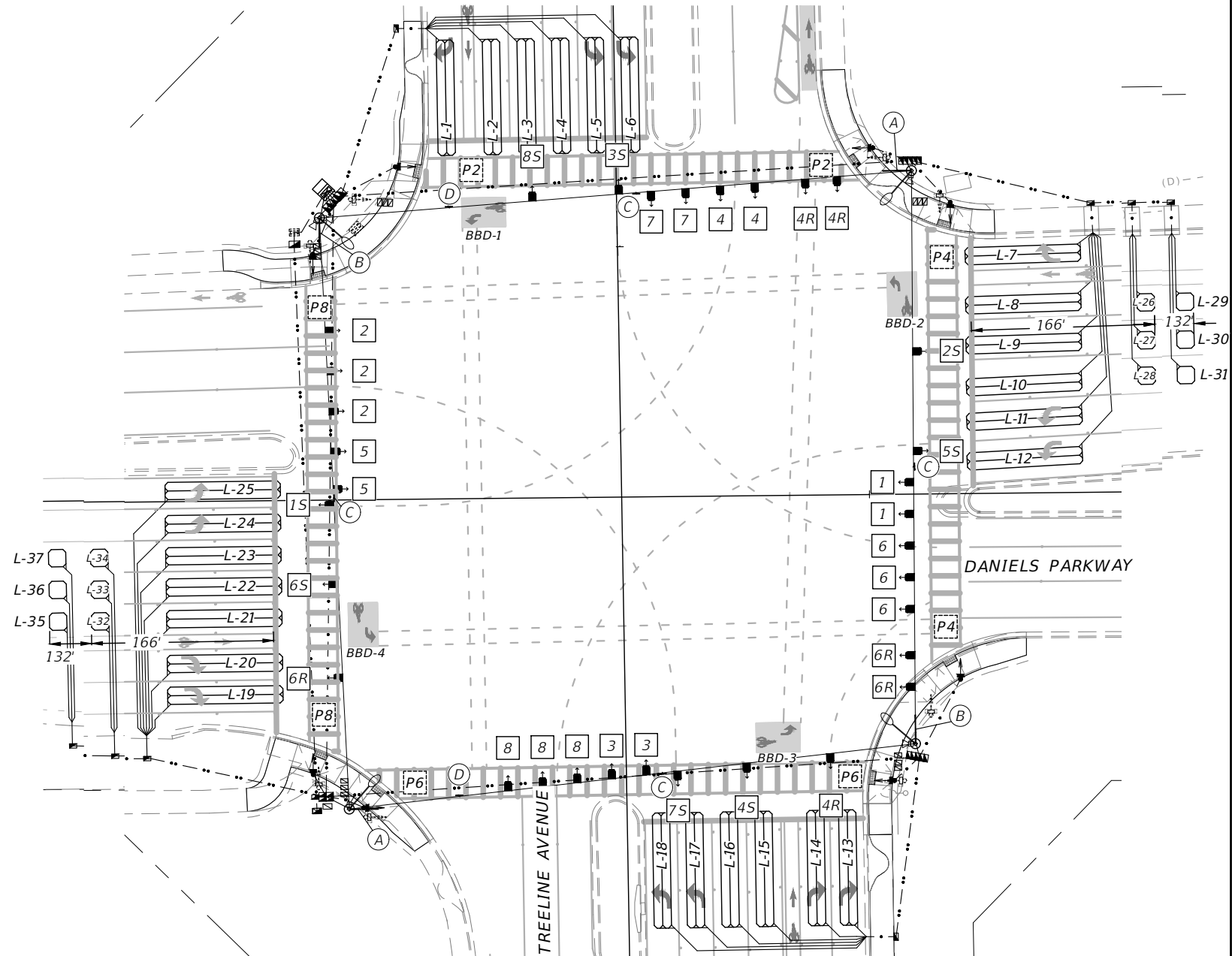
- NOTES:
1. POSTED SPEED LIMIT FOR DANIELS PARKWAY IS 45 MPH. POSTED SPEED LIMIT FOR TREELINE AVENUE IS 45 MPH.

CONTROLLER TIMINGS								
TIMING FUNCTION								
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
MINIMUM GREEN	5	20	5	8	10	20	5	8
BK MINIMUM GREEN		20		20		20		20
EXTENSION	2.0	6.0	2.0	3.0	2.0	6.0	2.0	2.0
MAXIMUM GREEN 1	25	90	20	25	35	90	25	25
MAXIMUM GREEN 2	15	45	10	15	15	45	20	15
YELLOW CLEARANCE	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
ALL RED	2.7	2.5	2.5	2.5	2.4	2.5	2.5	2.5
PEDESTRIAN WALK		7		7		7		7
PED. CLEARANCE		43		44		49		48
RECALL		MIN				MIN		

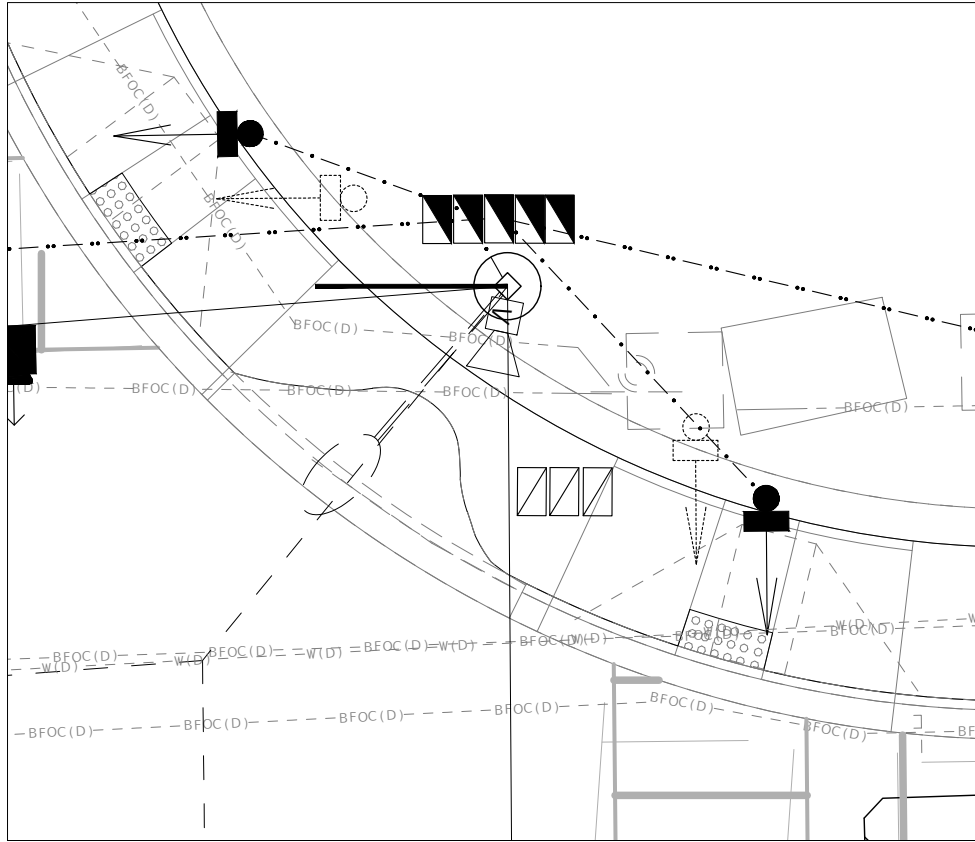
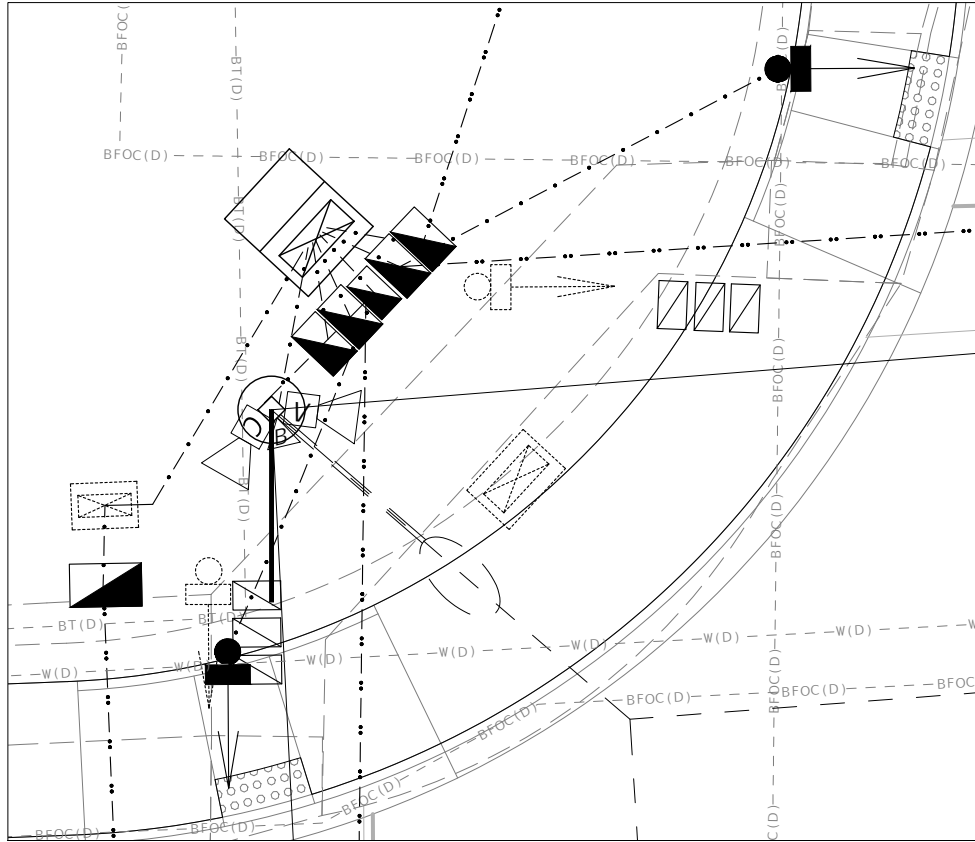
TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

BIKE BOX VIDEO				
ZONE			MOVEMENT	
BBD-1			8	
BBD-2			2	
BBD-3			4	
BBD-4			6	

DETECTORS FOR LOOPS					
LOOP	NO. OF LOOPS	NO. OF NEW DETS.	CHANNEL NO.	CONNECT TO MOVEMENT	DELAY TIME (SEC)
L-1	1	1	1	8	8.0
L-2	1		2	8	0.0
L-3	1		3	8	0.0
L-4	1	1	4	8	0.0
L-5	1		1	3	0.0
L-6	1		2	3	0.0
L-7	1	1	3	2	0.0
L-8	1		4	2	0.0
L-9	1		1	2	0.0
L-10	1	1	2	2	0.0
L-11	1		3	5	0.0
L-12	1		4	5	0.0
L-13	1	1	1	4,5	0.0
L-14	1		2	4,5	0.0
L-15	1		3	4	0.0
L-16	1	1	4	4	0.0
L-17	1		1	7	0.0
L-18	1		2	7	0.0
L-19	1	1	3	6	0.0
L-20	1		4	6	0.0
L-21	1		1	6	0.0
L-22	1	1	2	6	0.0
L-23	1		3	6	0.0
L-24	1		4	1	0.0
L-25	1	1	1	1	0.0
L-26	1		2	2	0.0
L-27	1		3	2	0.0
L-28	1	1	4	2	0.0
L-29	1		1	2	0.0
L-30	1		2	2	0.0
L-31	1	1	3	2	0.0
L-32	1		4	6	0.0
L-33	1		1	6	0.0
L-34	1	1	2	6	0.0
L-35	1		3	6	0.0
L-36	1		4	6	0.0
L-37	1	1	1	6	0.0
L-38	1		2	SPARE	0.0
L-39	1		3	SPARE	0.0
L-40	1		4	SPARE	0.0
DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER					

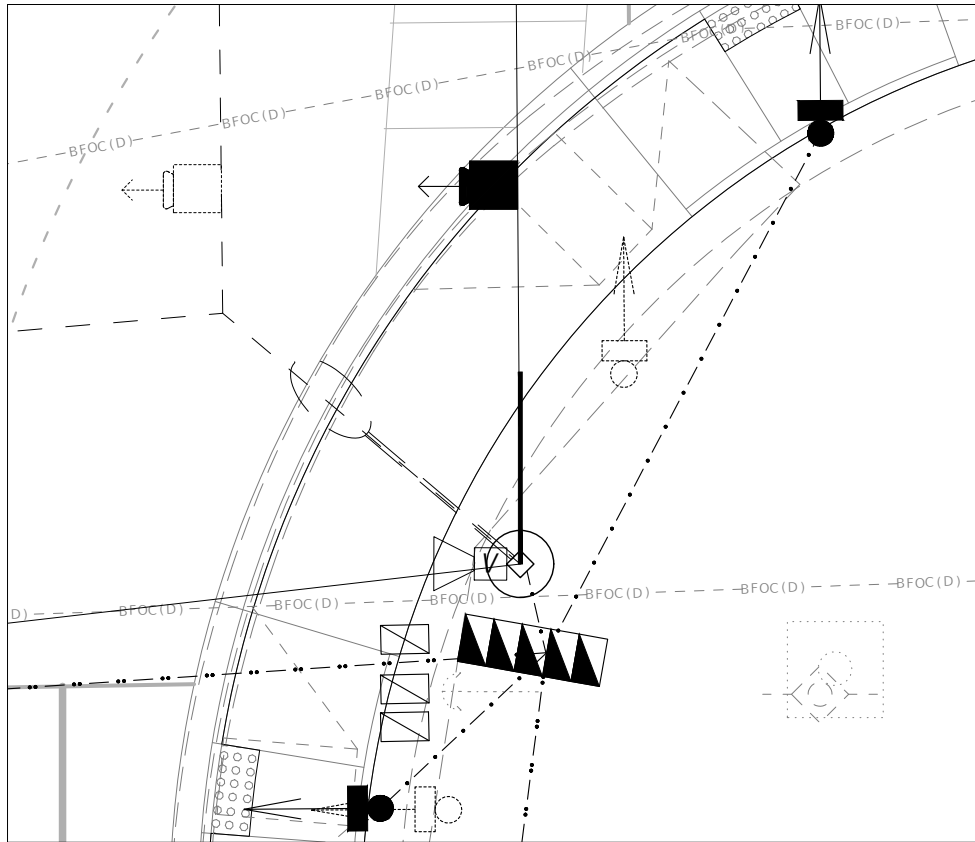
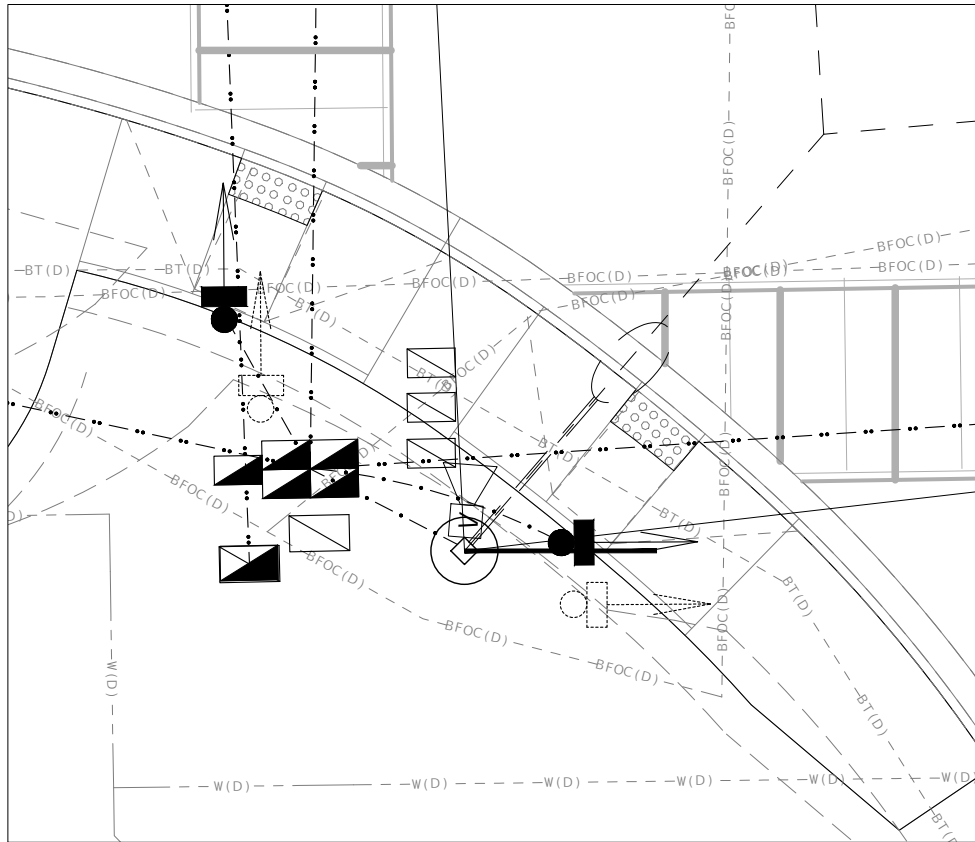


REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 STANTEC CONSULTING SERVICES, INC. 3915 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578	LEE COUNTY DEPARTMENT OF TRANSPORTATION		SIGNALIZATION PLAN (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY		
					TREELINE	LEE	451388-1-58-01	T-6



TREELINE AVENUE

DANIELS PARKWAY



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
STANTEC CONSULTING SERVICES, INC.
3915 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA 33578

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	PROJECT ID
TREELINE	LEE	451388-1-58-01

SIGNALIZATION PLAN (3)	
T-7	

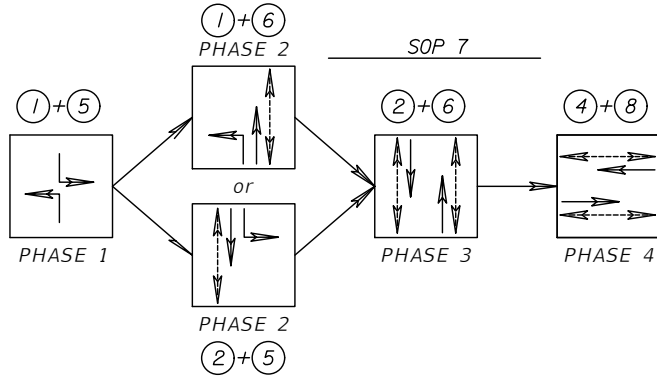
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CONTROLLER OPERATION

1. MAJOR STREET IS TREELINE AVENUE, MINOR STREETS ARE INTERCOM LANE AND HALTER LANE. MOVEMENTS 2 AND 6 SHALL FLASH YELLOW, ALL OTHER MOVEMENTS SHALL FLASH RED.
2. SIGNAL SHALL OPERATE AS SHOWN BELOW.

NOTES:

1. POSTED SPEED LIMIT FOR TREELINE AVENUE IS 45 MPH. SPEED LIMITS FOR INTERCOM LANE AND HALTER LANE ARE ASSUMED TO BE 30 MPH.



CONTROLLER TIMINGS								
TIMING FUNCTION								
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
MINIMUM GREEN	5	20		8	5	20		8
EXTENSION	3.0	5.0		3.0	3.0	5.0		4.0
MAXIMUM GREEN 1	15	60		25	15	60		25
MAXIMUM GREEN 2								
YELLOW CLEARANCE	4.8	4.8		3.7	4.8	4.8		3.7
ALL RED	3.7	2.0		3.4	3.7	2.0		3.4
PEDESTRIAN WALK		7		7		7		7
PED. CLEARANCE		16		40		13		36
RECALL		MIN				MIN		

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

DETECTORS FOR LOOPS					
LOOP	NO. OF LOOPS	NO. OF NEW DETS.	CHANNEL NO.	CONNECT TO MOVEMENT	DELAY TIME (SEC)
L-1	1	1	1	8	8.0
L-2	1		2	8	0.0
L-3	1	1	1	2	0.0
L-4	1		2	2	0.0
L-5	1	1	1	2	0.0
L-6	1	1	2	5	0.0
L-7	1	1	1	4	8.0
L-8	1		2	4	0.0
L-9	1	1	1	6	0.0
L-10	1	1	2	6	0.0
L-11	1	1	1	6	0.0
L-12	1	1	2	6	0.0
L-13	1	1	1	1	0.0
L-14	1		2	2	0.0
L-15	1	1	1	2	0.0
L-16	1	1	2	2	0.0
L-17	1	1	1	2	0.0
L-18	1	1	2	2	0.0
L-19	1	1	1	2	0.0
L-20	1	1	2	6	0.0
L-21	1	1	1	6	0.0
L-22	1	1	2	6	0.0
L-23	1	1	1	6	0.0
L-24	1	1	2	6	0.0
L-25	1	1	1	6	0.0
L-26	1	1	2	6	0.0
L-27	1	1	1	6	0.0
L-28	1	1	2	SPARE	0.0

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

(ILD) 10 LF
(ILD, SPILD) 2 RUNS @ 85'
(ILD) 1 EA
630-2-11
630-2-12
635-2-14

(ILD) 10 LF
(ILD, SPILD) 2 RUNS @ 190'
(ILD) 1 EA
630-2-11
630-2-12
635-2-14

(PHV, PLV) 2 RUNS @ 10'
1 EA
1 EA
1 EA
630-2-11
646-1-11
646-1-60
665-1-12

(ILD) 25 LF
(2-PHV, PLV, ILD) 4 EA
REPLACE EXISTING 1 EA
630-2-11
635-2-14
646-1-60

(PHV, PLV) 2 RUNS @ 25'
1 EA
1 EA
1 EA
630-2-11
646-1-11
665-1-12

6 RUNS @ 115'
(2-PHV, 2-PLV, 2-ILD)

(ILD) 35 LF
(PHV, PLV) 2 RUNS @ 25'
1 EA
1 EA
1 EA
630-2-11
630-2-11
646-1-11
665-1-12

2 AS
2 EA
653-1-60
665-1-60

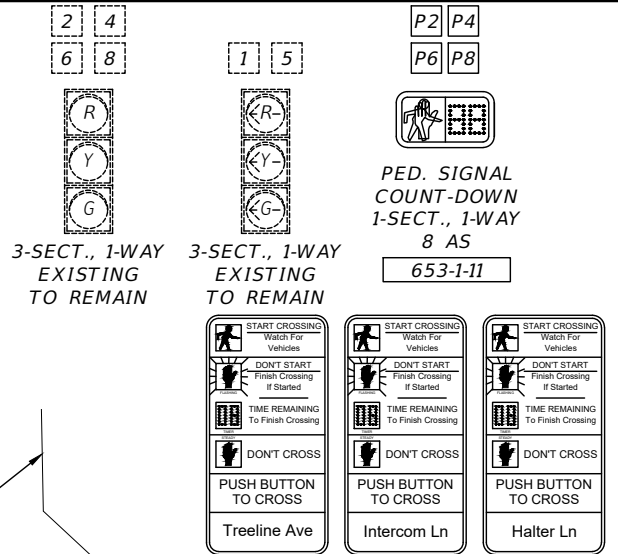
(2-PHV, PLV, ILD) 4 EA
REPLACE EXISTING 1 PI
1 PI
14 EA
632-7-1
632-7-6
660-1-109

(PHV, PLV) 2 RUNS @ 15'
1 EA
1 EA
1 EA
630-2-11
646-1-11
665-1-12

6'X40' TYPE F LOOP
2' BEYOND STOP BAR (TYP)

6'X6' TYPE B LOOP (TYP)

(THIS SHEET) 14 AS
(THIS SHEET) 13 AS
660-2-102
660-2-106



FTP-68B-06

630-2-11 2 RUNS @ 30' (PHV, PLV)
646-1-11 1 EA
646-1-60 1 EA
665-1-12 1 EA

630-2-11 15 LF (ILD)
635-2-14 4 EA (2-PHV, PLV, ILD)

630-2-11 2 RUNS @ 10' (PHV, PLV)
646-1-11 1 EA
646-1-60 1 EA
665-1-12 1 EA

630-2-12 (2-PHV, 2-PLV, ILD, SPILD)
6 RUNS @ 75'

630-2-11 2 RUNS @ 15' (PHV, PLV)
646-1-11 1 EA
646-1-60 1 EA
665-1-12 1 EA

630-2-11 35 LF (ILD)
635-2-14 4 EA (2-PHV, PLV, ILD)

REMOVE EXISTING PULL BOXES

630-2-12 (2-PHV, 2-PLV, 2-ILD)
6 RUNS @ 170'

630-2-12 1 EA
646-1-60 1 EA

630-2-11 2 RUNS @ 25' (PHV, PLV)
646-1-11 1 EA
665-1-12 1 EA

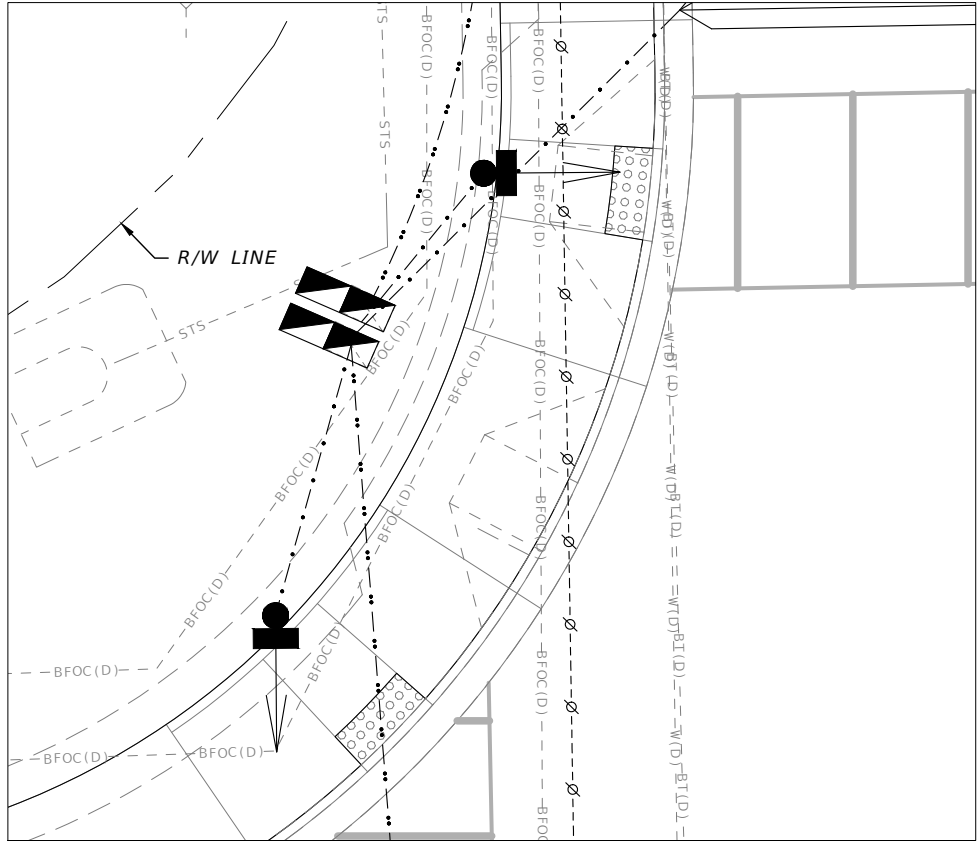
630-2-11 10 LF (ILD)
630-2-12 2 RUNS @ 190' (ILD, SPILD)
635-2-14 1 EA (ILD)

630-2-11 10 LF (ILD)
630-2-12 2 RUNS @ 120' (ILD, SPILD)
635-2-14 1 EA (ILD)

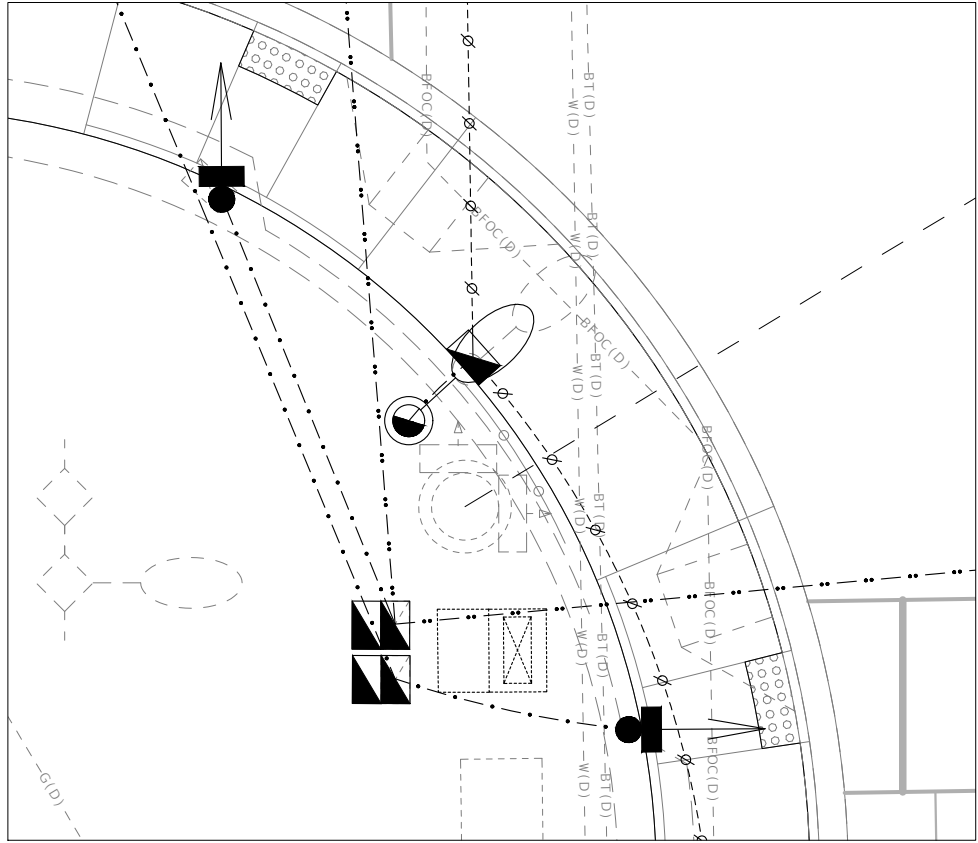


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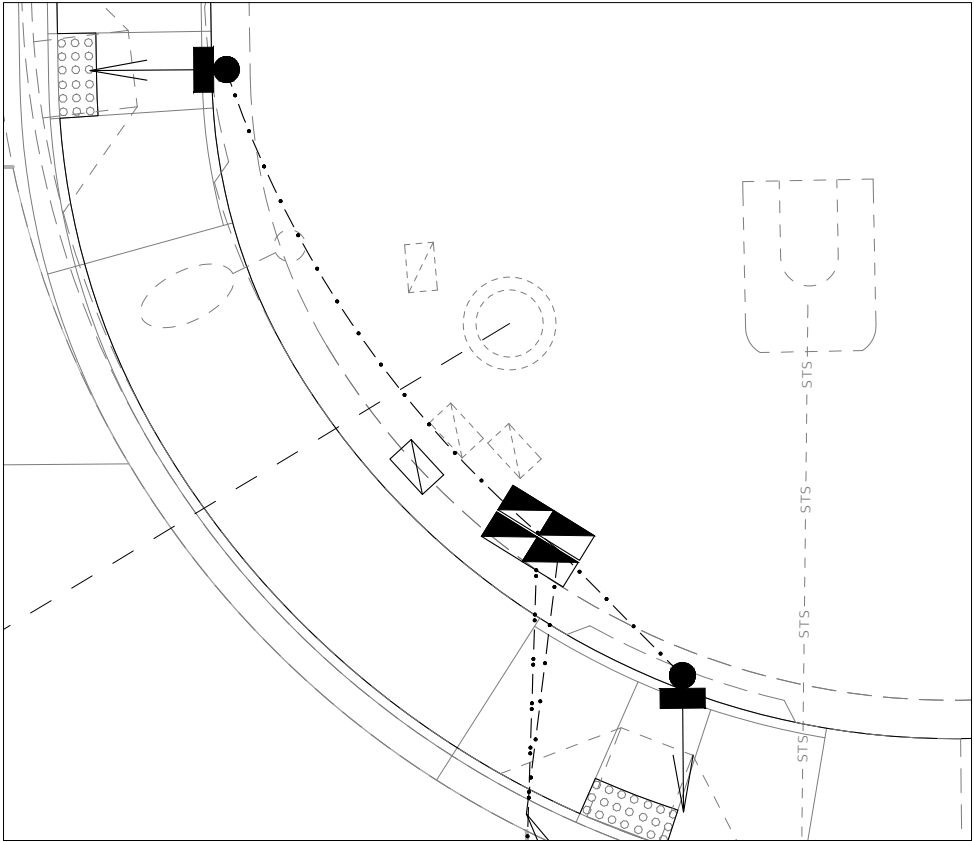
REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 STANTEC CONSULTING SERVICES, INC. 3915 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578	LEE COUNTY DEPARTMENT OF TRANSPORTATION		SIGNALIZATION PLAN (4)	SHEET NO. T-8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY		
					TREELINE	LEE	451388-1-58-01	



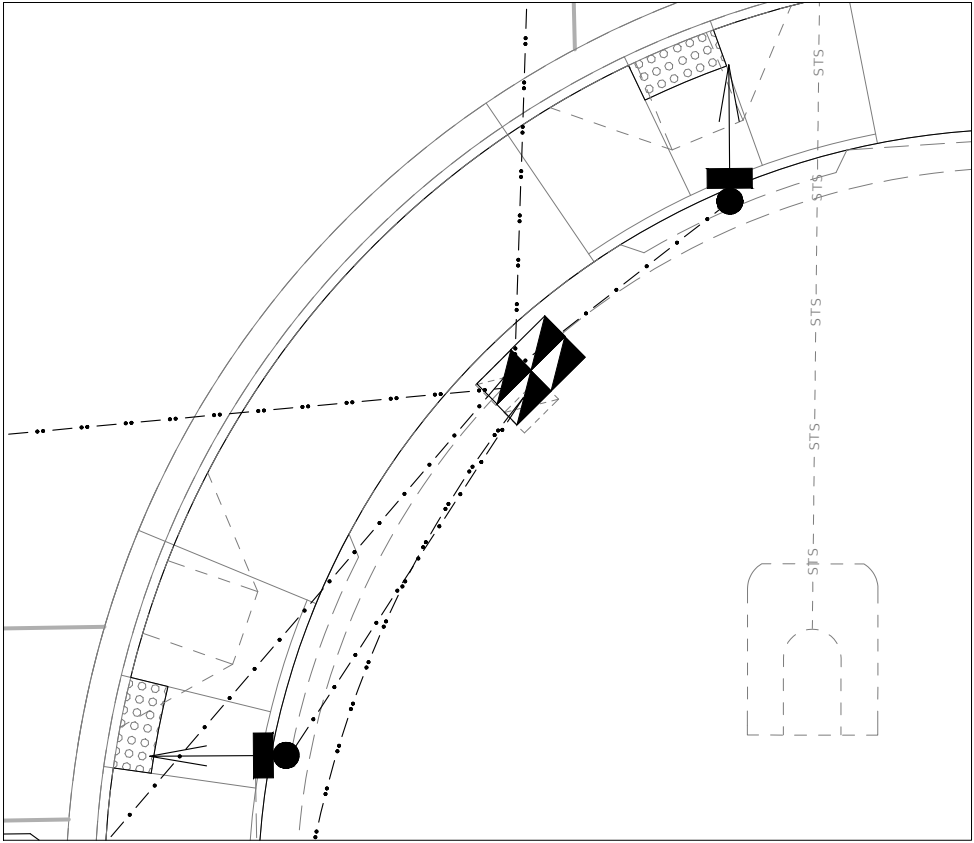
INTERCOM LANE



TREELINE AVENUE



HALTER LANE



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
STANTEC CONSULTING SERVICES, INC.
3915 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA 33578

LEE COUNTY DEPARTMENT OF TRANSPORTATION		
ROAD NAME	COUNTY	PROJECT ID
TREELINE	LEE	451388-1-58-01

SIGNALIZATION PLAN (5)

SHEET NO.
T-9

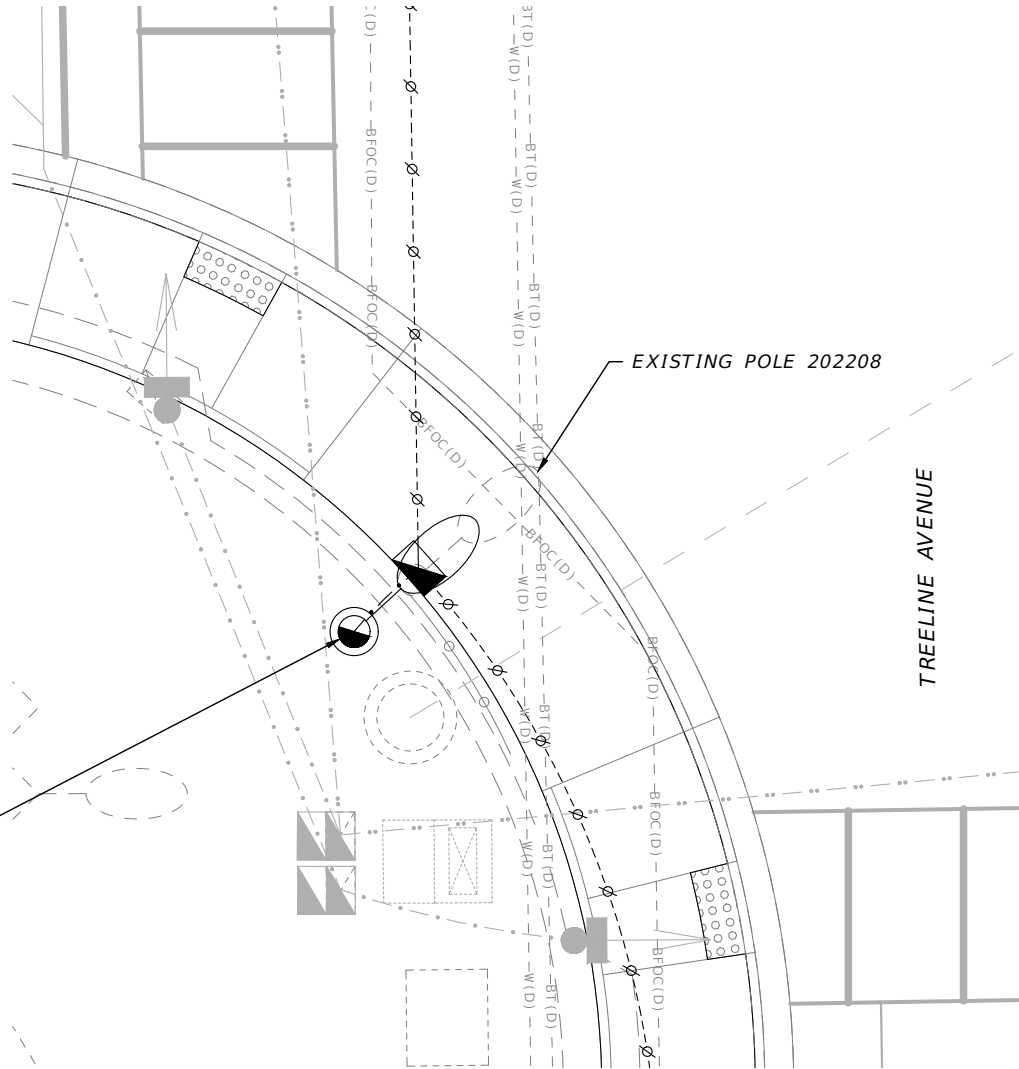


INTERCOM LANE

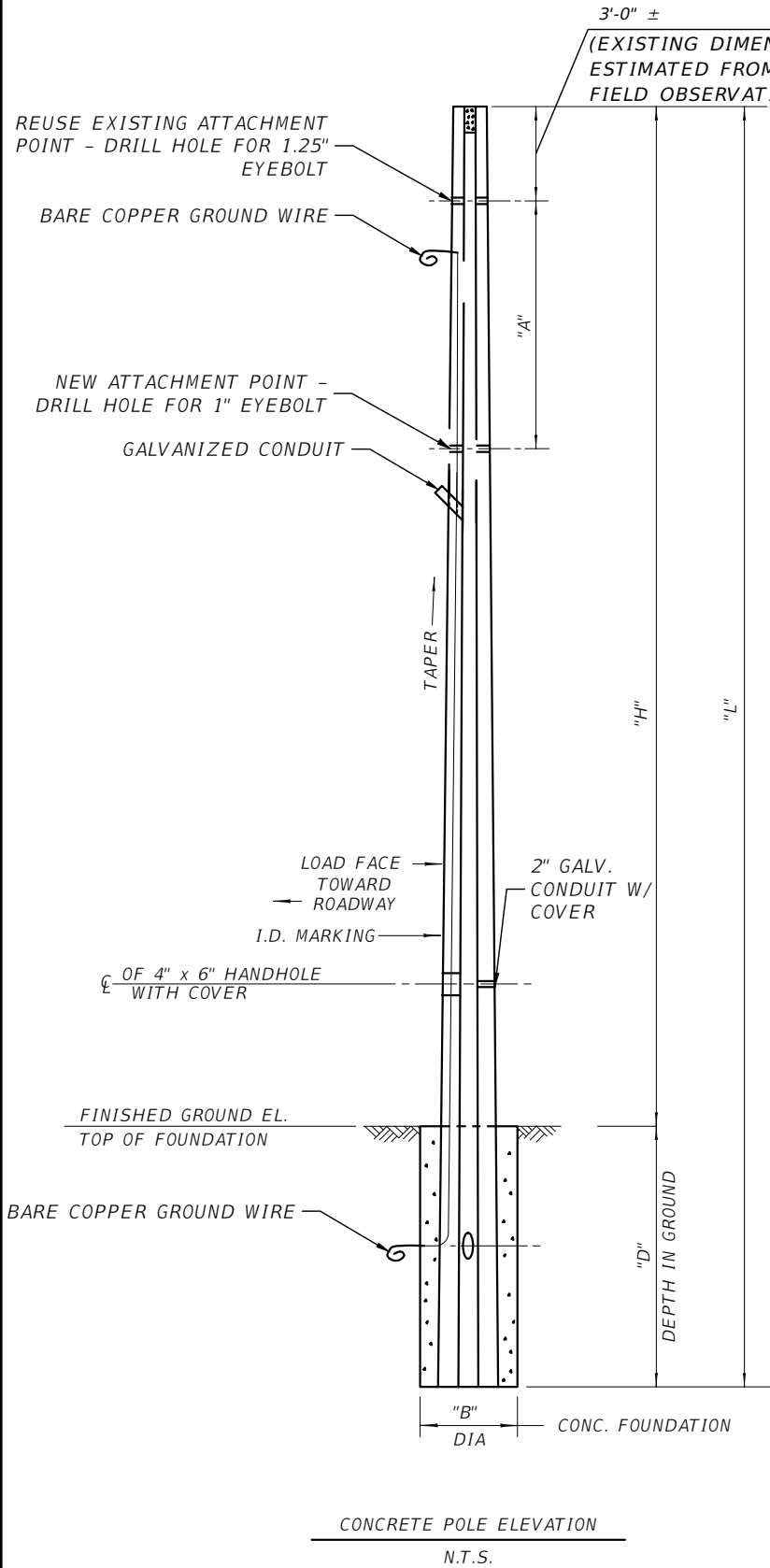
LIGHTING NOTES

- RELOCATE POLE #202208 OUT OF THE PROPOSED SIDEWALK:
 - COORDINATE WITH LEE COUNTY AS NEEDED TO ACCESS THE LIGHTING LOAD CENTER FOR DE-ENERGIZING AND TESTING.
 - REMOVE POLE FROM EXISTING FOUNDATION AND INSTALL PULL BOX IN THE FOUNDATION'S CURRENT LOCATION AND SPLICE THE EXISTING LIGHTING CIRCUITS FROM EACH DIRECTION TO RETAIN THE CONDUCTOR CONTINUITY AND REMAIN ENERGIZED.
 - PROVIDE A NEW FOUNDATION BEHIND THE PROPOSED SIDEWALK FOR THE RELOCATED POLE. FOUNDATION SHALL BE SIZED AS PER STANDARD PLAN 715-002. IF UNDERGROUND UTILITIES ARE IN CONFLICT THE SPREAD FOOTING FOUNDATION OPTION MAY BE USED.
 - INSTALL CONDUIT W/CONDUCTORS FROM THE PULL BOX LOCATION TO THE NEW FOUNDATION.
 - BRANCH THE PROPOSED CONDUCTORS TO THE EXISTING CONDUCTORS IN THE PROPOSED PULL BOX AND CONNECT CONDUCTORS TO THE RELOCATED LIGHT POLE CABLES LOCATED IN THE LIGHT POLE TRANSFORMER BASE.

(SL) 5 LF	630-2-11
(SL) 1 EA	635-2-14
(3-#6 AWG) 63 LF	715-1-12
1 EA	715-68-000



REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 STANTEC CONSULTING SERVICES, INC. 3915 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578	LEE COUNTY DEPARTMENT OF TRANSPORTATION			LIGHTING PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	PROJECT ID		
					TREELINE	LEE	451388-1-58-01		
									T-10

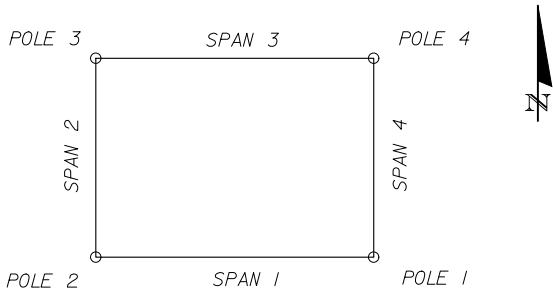


CONCRETE STRAIN POLE SCHEDULE														
SHEET NUMBER	POLE NO.	POLE TYPE	FINISHED GROUND EL. AT POLE	TOP/DRILLED SHAFT EL.	PAVEMENT EL. UNDER CRITICAL HEAD	DIM. A (FT)	DIM. B (FT)	DIM. D (FT)	DIM. H (FT)	DIM. L (FT)	CATENARY WIRE DIA. (IN.)/GRADE	MESSENGER WIRE DIA. (IN.)/GRADE	FOUNDATION DESIGN ASSUMPTIONS	
													EFFECTIVE SOIL UNIT WT. (PCF)	ANGLE OF INTERNAL FRICTION (DEG.)
T-5	1	P-VIII	*24.6	N/A	*25.6	11.0	*3.5	*14	*40.0	*54	1/2"	7/16"	*52.5	*32
T-5	2	P-VIII	*24.0	N/A	*25.2	11.0	*3.5	*14	*40.0	*54				
T-5	3	P-VIII	*23.0	N/A	*25.2	11.0	*3.5	*14	*42.0	*56				
T-5	4	P-VIII	*24.3	N/A	*25.6	11.0	*3.5	*14	*40.0	*54				

* VALUE FROM EXISTING 2002 PLANS PREPARED BY JOHNSON ENGINEERING, INC.

NOTES:

- EXISTING POLES SHALL BE REUSED FOR THE NEW SIGNAL CONFIGURATION
- DESIGN WIND SPEED: 105 MPH.



SPAN CONFIGURATION
N.T.S.

REVISIONS				CHRISTOPHER P. GAMACHE, P.E. P.E. LICENSE NUMBER 82122 STANTEC CONSULTING SERVICES, INC. 300 PARK PLACE BLVD SUITE 300 CLEARWATER, FLORIDA 33759	LEE COUNTY DEPARTMENT OF TRANSPORTATION			CONCRETE STRAIN POLE SCHEDULE	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NAME	COUNTY	PROJECT ID		
					TREELINE	LEE	451388-1-58-01		
									T-11

