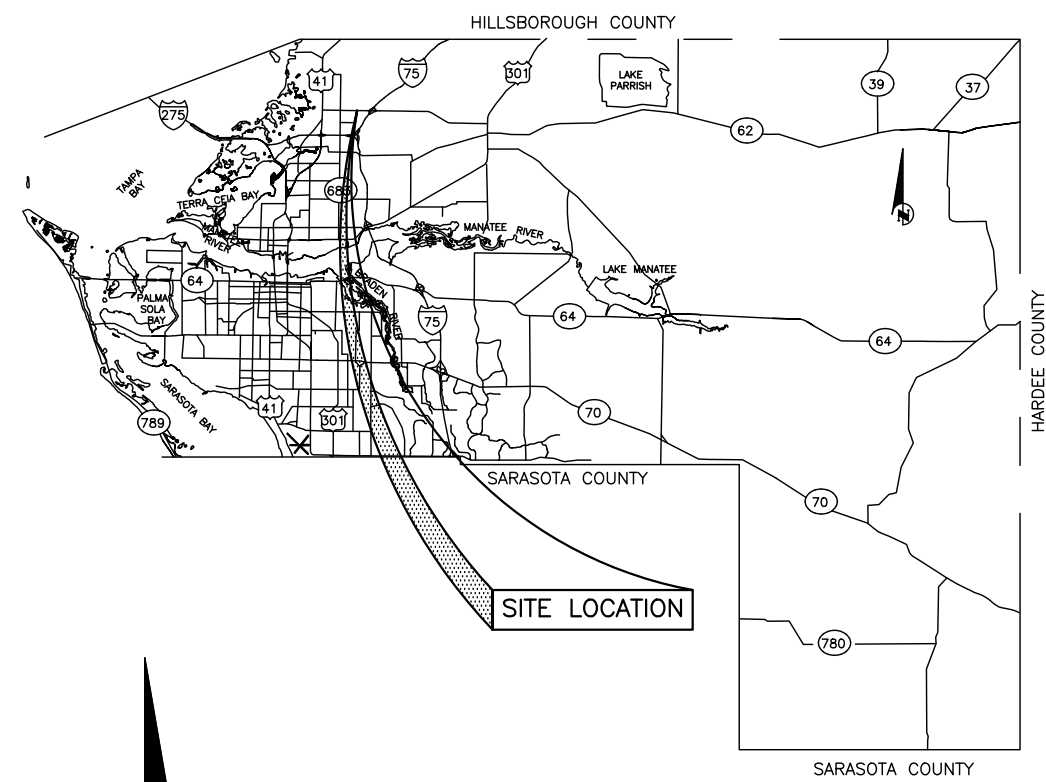




**MANATEE COUNTY
PUBLIC WORKS DEPARTMENT**

SIGNALIZATION PLANS

MANATEE PROJECT ID 6092560
MOCCASIN WALLOW ROAD
FROM US 41 TO WEST OF I-75



"GOVERNING STANDARD PLANS:
FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2020-21 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:
[HTTPS://WWW.FDOT.GOV/DESIGN/STANDARDPLANS](https://www.fdot.gov/design/standardplans)

APPLICABLE IRS: IR536-001-01, IR521-001-01

STANDARD PLANS FOR BRIDGE CONSTRUCTION ARE INCLUDED IN THE STRUCTURES PLANS COMPONENT.

GOVERNING STANDARD SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION, JULY 2021 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWING WEBSITE:
[HTTPS://WWW.FDOT.GOV/PROGRAMMANAGEMENT/IMPLEMENTED/SPECSBOOKS](https://www.fdot.gov/programmanagement/implemented/specsbooks)"

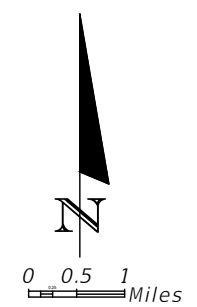
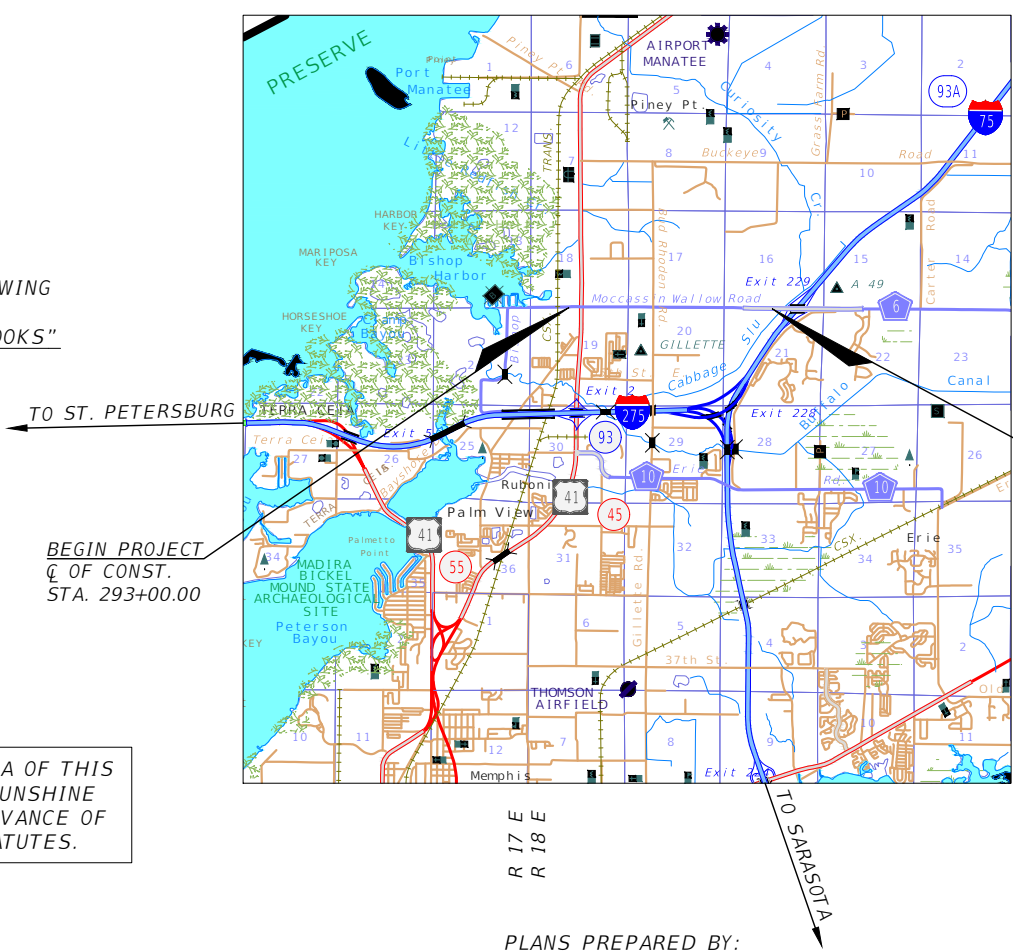
OTHER RELATED STANDARDS AND SPECIFICATIONS

- A. MANATEE COUNTY HIGHWAY & TRAFFIC STANDARDS MANUAL AND STORMWATER MANAGEMENT DESIGN MANUAL (JUNE 2015).
- B. MANATEE COUNTY UTILITIES STANDARDS MANUAL (JUNE 2020).

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

UTILITY WARNING NOTE

ABOVE GROUND AND / OR UNDERGROUND UTILITIES MAY BE IN THE AREA OF THIS PROJECT - PROCEED WITH CAUTION - THE CONTRACTOR SHALL CALL SUNSHINE STATE "ONE CALL" AT 1-800-432-4770 AND THE UTILITY OWNERS IN ADVANCE OF BEGINNING WORK, IN ACCORDANCE WITH CHAPTER 556, FLORIDA STATUTES.



END PROJECT
C/OF CONST.
STA. 402+42.59

BEGIN PROJECT
C/OF CONST.
STA. 293+00.00

PLANS PREPARED BY:

3905 Crescent Park Drive, Riverview, Florida, 33578
 www.cardno.com - 813.664.4500
 Certificate of Authorization No. 29915

SIGNALIZATION PLANS
ENGINEER OF RECORD:

DAVID J. ALLEN
P.E. NO.:58540

MANATEE COUNTY PROJECT MANAGER:
DANIEL GARNER, PE

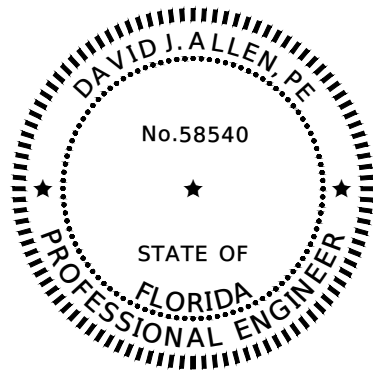
INDEX OF SIGNALIZATION PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	SIGNATURE SHEET
T-3 - T-7	TABULATION OF QUANTITIES
T-8 - T-9	GENERAL NOTES
T-10 - T-19	SIGNALIZATION PLAN
T-20 - T-49	INTERCONNECT PLAN
T-50 - T-51	MAST ARM TABULATION
T-52	STANDARD MAST ARM ASSEMBLIES
T-53	DMS CROSS SECTION
T-54	CANTILEVER SIGN STRUCTURE DATA TABLE
T-55	MVDS AND STRAIN POLE DETAILS
T-56 - T-58	FIBER OPTIC SPLICE DETAILS
T-59 - T-62	GUIDE SIGN WORKSHEET
T-63 - T-65	REPORT OF CORE BORINGS

DATE	DESCRIPTION

SHEET NO.
T-1

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



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

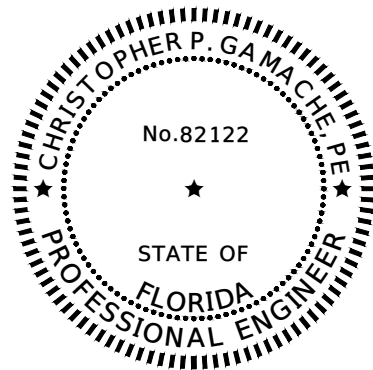
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

DAVID J. ALLEN, PE
CARDNO
3905 CRESCENT PARK DRIVE
RIVERVIEW, FL 33578
CERTIFICATE OF AUTHORIZATION 29915
PHONE NUMBER: (813) 664-4500

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

PLAN INDEX

SHEET NO.	DESCRIPTION
T-1	KEY SHEET
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T-50 - T-51	MAST ARM TABULATION
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T-56 - T-58	FIBER OPTIC SPLICE DETAILS
T-59 - T-62	GUIDE SIGN WORKSHEET



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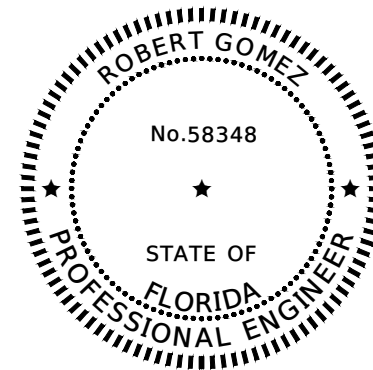
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

CHRISTOPHER P. GAMACHE, PE
CARDNO
380 PARK PLACE BLVD SUITE 300
CLEARWATER, FL 33579
CERTIFICATE OF AUTHORIZATION 29915
PHONE NUMBER: (727) 531-3505

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

PLAN INDEX

SHEET NO.	DESCRIPTION
T-2	SIGNATURE SHEET
T-52	STANDARD MAST ARM ASSEMBLIES
T-54	CANTILEVER SIGN STRUCTURE DATA TABLE
T-55	MVDS AND STRAIN POLE DETAILS



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.

ROBERT GOMEZ, PE
UNIVERSAL ENGINEERING SCIENCES, INC.
1748 INDEPENDENCE BOULEVARD
SARASOTA, FL 34234
PHONE NUMBER: (941) 358-7410

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

PLAN INDEX

SHEET NO.	DESCRIPTION
T-2	SIGNATURE SHEET
T-63 - T-65	REPORT OF CORE BORINGS

REVISIONS				DAVID J. ALLEN, PE P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578	MANATEE COUNTY		<i>SIGNATURE SHEET</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		T-2
					MOCCASIN WALLOW RD	6092560		

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			T-10		T-13		T-15		T-17		T-19		T-20		T-21		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL				
110-4-10	REMOVAL OF EXISTING CONCRETE	SY	5														5			
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	5														5			
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	140		245		240		245		10		10				890			
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	415		365		455		535		335		395		580		3080			
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF									40						40			
632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	1		1		1		1								4			
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	PI	1						1								2			
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF											80				80			
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND, 13-48 FIBERS	LF											495		630		1125			
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF																		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA											2				2			
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA											12				12			
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA											1				1			
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA											1				1			
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA											1				1			
634-4-600	SPAN WIRE ASSEMBLY, REMOVE- POLES REMAIN	PI			1												1			
635-2-11	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA	12		9		11		9		2						43			
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA													1		1			
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA											1				1			
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS			1		1		1								3			
639-1-420	ELECTRICAL POWER SERVICE, RELOCATE, UNDERGROUND	AS																		
639-1-610	ELECTRICAL POWER SERVICE, REMOVE OVERHEAD	AS			1												1			
639-1-620	ELECTRICAL POWER SERVICE, REMOVE UNDERGROUND	AS							1								1			
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF			70		245		50								365			
639-2-6	ELECTRICAL SERVICE WIRE, REMOVE	LF																		
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA					1										1			
639-4-6	EMERGENCY GENERATOR - PORTABLE, INSTALL HOUSING ONLY	EA			1		1		1								3			
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA			1		2		1								4			
641-2-13	PRESTRESSED CONCRETE POLE, F&I, TYPE P-III	EA																		
641-2-60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- PEDESTAL/SERVICE POLE	EA									1						1			
641-2-80	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- POLE 30' AND GREATER	EA									2						2			
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	8		8		6		8								30			
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA	4														4			
649-21-15	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 70'	EA			2		2		2								6			
649-21-21	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 78'	EA	1		2		2		2								7			
649-26-3	STEEL MAST ARM ASSEMBLY, REMOVE, SHALLOW FOUNDATION- BOLT ON ATTACHMENT	EA	1														1			
650-1-14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	4		6		6		7								23			
650-1-16	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS			4		2		4								10			
650-1-19	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION CLUSTER, 1 WAY	AS	2		4		6		3								15			
650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE- POLES TO REMAIN	AS	3														3			
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	8		8		6		8								30			
660-3-11	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT	EA	1		1		1		1								4			
660-3-12	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	6		6		6		6								24			
660-4-60	VEHICLE DETECTION SYSTEM- VIDEO, REMOVE	EA	1														1			
660-6-121	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA	1		1		1		1								4			
660-6-122	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	1		1		1		1								4			
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	8		8		6		8		1						31			
670-5-110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS			1		1										2			
670-5-111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS							1								1			
670-5-400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS	1														1			
670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS			1				1								2			
676-2-122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA																		
676-2-400	ITS CABINET, RELOCATE	EA																		
676-3-10	SMALL EQUIPMENT ENCLOSURE, FURNISH AND INSTALL, LESS THAN 10"W X 13"H X 11" D	EA																		
676-3-30	SMALL EQUIPMENT ENCLOSURE, RELOCATE, >10" W X 13" H X 11" D	EA																		
682-1-133	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - NON-PRESSURIZED, IP, HIGH DEFINITION	EA	1		1		1		1								4			
682-1-400	ITS CCTV CAMERA, RELOCATE	EA																		
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	1		1		1		1								4			
685-1-13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA	1		1		1		1								4			
685-1-60	UNINTERRUPTIBLE POWER SUPPLY, REMOVE- POLE/CABINET REMAINS	EA	1														1			
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA			10		7		11								28			
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	1		4		4		4								13			
700-5-50	INTERNALLY ILLUMINATED SIGN, RELOCATE	EA	1														1			
700-10-400	DMS SUPPORT STRUCTURE, RELOCATE	EA																		

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REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		TABULATION OF QUANTITIES (1)	SHEET NO. T-3
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
----	----				MOCCASIN WALLOW RD	6092560		

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			T-22		T-23		T-24		T-25		T-26		T-27		T-28		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
110-4-10	REMOVAL OF EXISTING CONCRETE	SY																		
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY																		
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	45							10		30					85			
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	690		580		580		580	715		930		540			4615			
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF																		
632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI																		
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	PI																		
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF	180									100					280			
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND, 13-48 FIBERS	LF	680		630		630		630	815		685					4070			
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF																		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	4									4					8			
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA	12									12					24			
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	1									1					2			
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	1									1					2			
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA	1									1					2			
634-4-600	SPAN WIRE ASSEMBLY, REMOVE- POLES REMAIN	PI																		
635-2-11	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA	2							1		3		2			8			
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	1		1		1		1	2		2					8			
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA	1									1					2			
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	1														1			
639-1-420	ELECTRICAL POWER SERVICE, RELOCATE, UNDERGROUND	AS																		
639-1-610	ELECTRICAL POWER SERVICE, REMOVE OVERHEAD	AS																		
639-1-620	ELECTRICAL POWER SERVICE, REMOVE UNDERGROUND	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	155														155			
639-2-6	ELECTRICAL SERVICE WIRE, REMOVE	LF																		
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1														1			
639-4-6	EMERGENCY GENERATOR - PORTABLE, INSTALL HOUSING ONLY	EA																		
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1														1			
641-2-13	PRESTRESSED CONCRETE POLE, F&I, TYPE P-III	EA	1														2			
641-2-60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- PEDESTAL/SERVICE POLE	EA																		
641-2-80	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- POLE 30' AND GREATER	EA																		
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649-21-15	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 70'	EA																		
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650-1-19	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION CLUSTER, 1 WAY	AS																		
650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE- POLES TO REMAIN	AS																		
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS																		
660-3-11	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT	EA	1									2					3			
660-3-12	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	1								1						2			
660-4-60	VEHICLE DETECTION SYSTEM- VIDEO, REMOVE	EA																		
660-6-121	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA																		
660-6-122	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA																		
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA																		
670-5-110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS																		
670-5-111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS																		
670-5-400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS																		
670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS																		
676-2-122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA	1														1			
676-2-400	ITS CABINET, RELOCATE	EA																		
676-3-10	SMALL EQUIPMENT ENCLOSURE, FURNISH AND INSTALL, LESS THAN 10"W X 13"H X 11" D	EA																		
676-3-30	SMALL EQUIPMENT ENCLOSURE, RELOCATE, >10" W X 13" H X 11" D	EA																		
682-1-133	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - NON-PRESSURIZED, IP, HIGH DEFINITION	EA	1														1			
682-1-400	ITS CCTV CAMERA, RELOCATE	EA																		
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	1														1			
685-1-13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA																		
685-1-60	UNINTERRUPTIBLE POWER SUPPLY, REMOVE- POLE/CABINET REMAINS	EA																		
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA																		
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA																		
700-5-50	INTERNALLY ILLUMINATED SIGN, RELOCATE	EA																		
700-10-400	DMS SUPPORT STRUCTURE, RELOCATE	EA																		

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REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		TABULATION OF QUANTITIES (2)	SHEET NO. T-4
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
----	----				MOCCASIN WALLOW RD	6092560		

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS														TOTAL THIS SHEET		GRAND TOTAL	
			T-29		T-30		T-31		T-32		T-33		T-34		T-35		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
110-4-10	REMOVAL OF EXISTING CONCRETE	SY																		
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY																		
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	15															35		
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	205		580		580		580		580		580		610			3715		
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF																		
632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI																		
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	PI																		
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF													90			90		
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND, 13-48 FIBERS	LF			680		630		630		630		680					3250		
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF																		
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA												4				4		
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA												12				12		
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA												1				1		
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA												1				1		
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA												1				1		
634-4-600	SPAN WIRE ASSEMBLY, REMOVE- POLES REMAIN	PI																		
635-2-11	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA	1											1		2		4		
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	1		2		1		1		1							6		
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA												1				1		
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																		
639-1-420	ELECTRICAL POWER SERVICE, RELOCATE, UNDERGROUND	AS																		
639-1-610	ELECTRICAL POWER SERVICE, REMOVE OVERHEAD	AS																		
639-1-620	ELECTRICAL POWER SERVICE, REMOVE UNDERGROUND	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF																		
639-2-6	ELECTRICAL SERVICE WIRE, REMOVE	LF																		
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																		
639-4-6	EMERGENCY GENERATOR - PORTABLE, INSTALL HOUSING ONLY	EA																		
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA																		
641-2-13	PRESTRESSED CONCRETE POLE, F&I, TYPE P-III	EA	1															1		
641-2-60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- PEDESTAL/SERVICE POLE	EA																		
641-2-80	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- POLE 30' AND GREATER	EA																		
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA																		
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA																		
649-21-15	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 70'	EA																		
649-21-21	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 78'	EA																		
649-26-3	STEEL MAST ARM ASSEMBLY, REMOVE, SHALLOW FOUNDATION- BOLT ON ATTACHMENT	EA																		
650-1-14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS																		
650-1-16	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS																		
650-1-19	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION CLUSTER, 1 WAY	AS																		
650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE- POLES TO REMAIN	AS																		
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS																		
660-3-11	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT	EA	1											1				2		
660-3-12	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	1															1		
660-4-60	VEHICLE DETECTION SYSTEM- VIDEO, REMOVE	EA																		
660-6-121	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA																		
660-6-122	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA																		
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA																		
670-5-110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS																		
670-5-111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS																		
670-5-400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS																		
670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS																		
676-2-122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA																		
676-2-400	ITS CABINET, RELOCATE	EA																		
676-3-10	SMALL EQUIPMENT ENCLOSURE, FURNISH AND INSTALL, LESS THAN 10"W X 13"H X 11" D	EA	1															1		
676-3-30	SMALL EQUIPMENT ENCLOSURE, RELOCATE, >10" W X 13" H X 11" D	EA																		
682-1-133	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - NON-PRESSURIZED, IP, HIGH DEFINITION	EA																		
682-1-400	ITS CCTV CAMERA, RELOCATE	EA																		
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA																		
685-1-13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA																		
685-1-60	UNINTERRUPTIBLE POWER SUPPLY, REMOVE- POLE/CABINET REMAINS	EA																		
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA																		
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA																		
700-5-50	INTERNALLY ILLUMINATED SIGN, RELOCATE	EA																		
700-10-400	DMS SUPPORT STRUCTURE, RELOCATE	EA																		

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

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		<i>TABULATION OF QUANTITIES (5)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		T-5
----					MOCCASIN WALLOW RD	6092560		

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL			
			T-36		T-37		T-38		T-39		T-40		T-41		T-42		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
110-4-10	REMOVAL OF EXISTING CONCRETE	SY																		
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY																		
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	10					10		75						95				
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	125		580		580	585		1035		1160		1180		5245				
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF																		
632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI																		
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	PI																		
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND,2-12 FIBERS	LF						80		330		630		580		1620				
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND,13-48 FIBERS	LF			630		630	685		630		630		630		3835				
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF						100		600		580		580		1860				
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA						4							4					
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA						12							12					
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA						1							1					
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA						1							1					
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA						1							1					
634-4-600	SPAN WIRE ASSEMBLY, REMOVE- POLES REMAIN	PI																		
635-2-11	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA	1					3		8		2		2		16				
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA			1		1	1		2		2		1		8				
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA						1							1					
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																		
639-1-420	ELECTRICAL POWER SERVICE, RELOCATE, UNDERGROUND	AS								1					1					
639-1-610	ELECTRICAL POWER SERVICE, REMOVE OVERHEAD	AS																		
639-1-620	ELECTRICAL POWER SERVICE, REMOVE UNDERGROUND	AS																		
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF						100		320		580		585		1585				
639-2-6	ELECTRICAL SERVICE WIRE, REMOVE	LF								600		580		580		1760				
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																		
639-4-6	EMERGENCY GENERATOR - PORTABLE, INSTALL HOUSING ONLY	EA																		
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA								1					1					
641-2-13	PRESTRESSED CONCRETE POLE, F&I, TYPE P-III	EA	1					1		2					4					
641-2-60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- PEDESTAL/SERVICE POLE	EA						1							1					
641-2-80	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- POLE 30' AND GREATER	EA																		
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA																		
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA																		
649-21-15	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 70'	EA																		
649-21-21	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 78'	EA																		
649-26-3	STEEL MAST ARM ASSEMBLY, REMOVE, SHALLOW FOUNDATION- BOLT ON ATTACHMENT	EA																		
650-1-14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS																		
650-1-16	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS																		
650-1-19	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION CLUSTER, 1 WAY	AS																		
650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE- POLES TO REMAIN	AS																		
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS						1							1					
660-3-11	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT	EA	1												1					
660-3-12	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	1							1					2					
660-4-60	VEHICLE DETECTION SYSTEM- VIDEO, REMOVE	EA																		
660-6-121	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA																		
660-6-122	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA																		
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA																		
670-5-110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS																		
670-5-111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS																		
670-5-400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS																		
670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS																		
676-2-122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA																		
676-2-400	ITS CABINET, RELOCATE	EA								1					1					
676-3-10	SMALL EQUIPMENT ENCLOSURE, FURNISH AND INSTALL, LESS THAN 10"W X 13"H X 11" D	EA	1							1					2					
676-3-30	SMALL EQUIPMENT ENCLOSURE, RELOCATE, >10" W x 13" H x 11" D	EA								1					1					
682-1-133	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - NON-PRESSURIZED, IP, HIGH DEFINITION	EA																		
682-1-400	ITS CCTV CAMERA, RELOCATE	EA								1					1					
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA																		
685-1-13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA																		
685-1-60	UNINTERRUPTIBLE POWER SUPPLY, REMOVE- POLE/CABINET REMAINS	EA																		
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA																		
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA																		
700-5-50	INTERNALLY ILLUMINATED SIGN, RELOCATE	EA																		
700-10-400	DMS SUPPORT STRUCTURE, RELOCATE	EA								1					1					

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

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		TABULATION OF QUANTITIES (4)	SHEET NO. T-6
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
----	----				MOCCASIN WALLOW RD	6092560		

TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS												TOTAL THIS SHEET		GRAND TOTAL			
			T - 43		T - 44		T - 45		T - 46		T - 47		T - 48		T - 49		PLAN	FINAL	PLAN	FINAL
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL						
110-4-10	REMOVAL OF EXISTING CONCRETE	SY																	5	
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY																	5	
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF																	1105	
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	705		580		580				945		1160		590		4560		21215	
630-2-14	CONDUIT, FURNISH & INSTALL, ABOVEGROUND	LF																	40	
632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI																	4	
632-7-6	SIGNAL CABLE, REMOVE- INTERSECTION	PI																	2	
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND,2-12 FIBERS	LF	635		630		210		430						100		2005		4075	
633-1-122	FIBER OPTIC CABLE, F&I, UNDERGROUND,13-48 FIBERS	LF	630		630		630				1125		1260		790		5065		17345	
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF	585		580		160										1325		3185	
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA							4		2				4		10		28	
633-2-32	FIBER OPTIC CONNECTION, INSTALL, TERMINATION	EA													12		12		72	
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA							1		1				1		3		8	
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA							1		1				1		3		8	
633-3-16	FIBER OPTIC CONNECTION HARDWARE, F&I, PATCH PANEL- FIELD TERMINATED	EA													1		1		6	
634-4-600	SPAN WIRE ASSEMBLY, REMOVE- POLES REMAIN	PI																	1	
635-2-11	PULL & SPLICE BOX, F&I, 17" X 30" COVER SIZE	EA																	71	
635-2-12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	2		1						2		2		2		9		32	
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA																	5	
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS																	4	
639-1-420	ELECTRICAL POWER SERVICE, RELOCATE, UNDERGROUND	AS																	1	
639-1-610	ELECTRICAL POWER SERVICE, REMOVE OVERHEAD	AS																	1	
639-1-620	ELECTRICAL POWER SERVICE, REMOVE UNDERGROUND	AS																	1	
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF																	2105	
639-2-6	ELECTRICAL SERVICE WIRE, REMOVE	LF																	1760	
639-3-11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA																	2	
639-4-6	EMERGENCY GENERATOR - PORTABLE, INSTALL HOUSING ONLY	EA																	3	
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA																	6	
641-2-13	PRESTRESSED CONCRETE POLE, F&I, TYPE P-III	EA																	7	
641-2-60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- PEDESTAL/SERVICE POLE	EA																	2	
641-2-80	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- POLE 30' AND GREATER	EA																	2	
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA																	30	
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA																	4	
649-21-15	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 70'	EA																	6	
649-21-21	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 78'	EA																	7	
649-26-3	STEEL MAST ARM ASSEMBLY, REMOVE, SHALLOW FOUNDATION- BOLT ON ATTACHMENT	EA																	1	
650-1-14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS																	23	
650-1-16	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS																	10	
650-1-19	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION CLUSTER, 1 WAY	AS																	15	
650-1-60	VEHICULAR TRAFFIC SIGNAL, REMOVE- POLES TO REMAIN	AS																	3	
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS																	31	
660-3-11	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT	EA																	10	
660-3-12	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA																	29	
660-4-60	VEHICLE DETECTION SYSTEM- VIDEO, REMOVE	EA																	1	
660-6-121	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA																	4	
660-6-122	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA																	4	
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA																	31	
670-5-110	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA	AS																	2	
670-5-111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS																	1	
670-5-400	TRAFFIC CONTROLLER ASSEMBLY, MODIFY	AS																	1	
670-5-600	TRAFFIC CONTROLLER ASSEMBLY, REMOVE CONTROLLER WITH CABINET	AS																	2	
676-2-122	ITS CABINET, FURNISH & INSTALL, POLE MOUNT WITH SUNSHIELD, 336S, 24" W X 46" H X 22" D	EA																	1	
676-2-400	ITS CABINET, RELOCATE	EA																	1	
676-3-10	SMALL EQUIPMENT ENCLOSURE, FURNISH AND INSTALL, LESS THAN 10"W X 13"H X 11" D	EA																	3	
676-3-30	SMALL EQUIPMENT ENCLOSURE, RELOCATE, >10" W X 13" H X 11" D	EA																	1	
682-1-133	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - NON-PRESSURIZED, IP, HIGH DEFINITION	EA																	5	
682-1-400	ITS CCTV CAMERA, RELOCATE	EA																	1	
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA																	5	
685-1-13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA																	4	
685-1-60	UNINTERRUPTIBLE POWER SUPPLY, REMOVE- POLE/CABINET REMAINS	EA																	1	
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA																	28	
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA																	13	
700-5-50	INTERNALLY ILLUMINATED SIGN, RELOCATE	EA																	1	
700-10-400	DMS SUPPORT STRUCTURE, RELOCATE	EA																	1	

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REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		TABULATION OF QUANTITIES (5)	SHEET NO. T-7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
----	----				MOCCASIN WALLOW RD	6092560		

SIGNALIZATION GENERAL NOTES

1. AT LEAST SEVEN (7) FULL BUSINESS DAYS PRIOR TO BEGINNING WORK, CONTACT THE TRAFFIC SIGNAL INSPECTOR/LIAISON:

MR. JAMES NICHOLS, P.E.
FLORIDA DEPARTMENT OF TRANSPORTATION
MANATEE OPERATIONS CENTER
14000 STATE ROAD 64 EAST
BRADENTON, FL 34212
PH: 941-708-4429

2. AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING DEPARTMENTS TO INFORM THEM OF CONSTRUCTION OPERATIONS:

MANATEE COUNTY TRAFFIC OPERATIONS DIVISION:
MR. AARON BURKETT 941-708-7509

MANATEE COUNTY TRAFFIC ENGINEERING DIVISION:
MR. VISHAL KAKKAD 941-749-3500

3. 48 HOURS PRIOR TO CONTRACT START DATE, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES IN WRITING GIVING THE LOCATION, START DATE AND EMERGENCY NUMBERS FOR AFTER HOURS REPAIRS:

FLORIDA HIGHWAY PATROL POST OFFICE BOX 20009 BRADENTON, FLORIDA 34203 941-751-7646	MANATEE COUNTY SHERIFF'S OFFICE 515 11TH STREET WEST BRADENTON, FLORIDA 34205 941-747-3011
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4. THE CONTRACTOR SHALL OBTAIN A COPY OF MANATEE COUNTY'S LATEST "TRAFFIC INFRASTRUCTURE DESIGN GUIDE" THROUGH THE COUNTY PROJECT MANAGER PRIOR TO ORDERING MATERIALS AND/OR EQUIPMENT. CONTACT THE MANATEE COUNTY TRAFFIC OPERATIONS DIVISION, MR. AARON BURKETT, 941-709-7509 FOR ADDITIONAL INFORMATION..

5. THE CONTRACTOR MUST NOTIFY THE TRAFFIC ENGINEERING DIVISION VIA THE PROJECT MANAGER AT LEAST FIVE (5) BUSINESS DAYS IN ADVANCE TO SCHEDULE THE INITIAL POWER SERVICE CONNECTION AND/OR TRAFFIC SIGNAL INSPECTION.

6. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR THE SIGNAL MAINTENANCE, TIMING AND OPERATION OF ANY AND ALL SIGNALS AND SIGNAGE FROM THE COMMENCEMENT TO THE ACCEPTANCE OF THE PROJECT (I.E.: EXISTING LOOPS CUT, SYSTEM COMMUNICATION TERMINATED, LANE OR PAVEMENT MODIFICATIONS, PEDESTRIAN MODIFICATIONS, TRAFFIC SIGNAL SCHOOL FLASHER, WARNING FLASHER, ROADWAY LIGHTING, COUNT STATIONS, AND ANY OTHER TRAFFIC RELATED DEVICE LOCATED WITHIN THE CONSTRUCTION ZONE). MANATEE COUNTY WILL ASSIST IN PROVIDING EXISTING SYSTEM TIMES WHEN POSSIBLE.

7. THE SIGNAL CONTRACTOR SHALL BE AVAILABLE TO RESPOND TO TROUBLE CALLS TWENTY-FOUR HOURS A DAY, SEVEN DAYS A WEEK FOR THE DURATION OF THE PROJECT. THE PRIME CONTRACTOR SHALL PROVIDE CONTACT NUMBERS FOR THE SIGNAL CONTRACTOR TO THE TRAFFIC MANAGEMENT DIVISION AT COMMENCEMENT OF PROJECT. FURTHERMORE, WITHIN TWO HOURS OF NOTIFICATION OR DOCUMENTED ATTEMPTED NOTIFICATIONS, THE SIGNAL CONTRACTOR SHALL BE ON SITE MAKING NEEDED REPAIRS OR MODIFICATIONS. FAILURE TO MEET THE TIME REQUIREMENTS SHALL GIVE THE COUNTY, AT ITS DISCRETION, THE RIGHT TO REQUEST ASSISTANCE FROM THE MANATEE COUNTY SHERIFF'S DEPARTMENT TO CONTROL TRAFFIC FOR THE PERIOD OF TIME UNTIL THE CONTRACTOR RESPONDS AND MAKES THE NEEDED REPAIRS, THE COST FOR THE MANATEE COUNTY SHERIFF'S OFFICE SHALL BE THE RESPONSIBILITY OF THE PRIME CONTRACTOR.

8. EXISTING SIGNALIZATION SHALL REMAIN IN PLACE TO THE EXTENT POSSIBLE, INCLUDING VEHICLE ACTUATION AND PEDESTRIAN SIGNAL OPERATION, AND SHALL BE USED FOR MAINTENANCE OF TRAFFIC AS REQUIRED. THE CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY VEHICLE DETECTION FOR ALL APPROACHES AND PHASES THROUGHOUT THE CONSTRUCTION PROJECT. THE DETECTION DEVICES SHALL BE PROPERLY INSTALLED, PROGRAMMED AND TUNED TO ENSURE PROPER OPERATION. THE CONTRACTOR SHALL MAKE ALL ADJUSTMENTS AND REPAIRS AS NEEDED TO ENSURE THE DETECTION IS PROPERLY FUNCTIONING THROUGHOUT THE PROJECT OR UNTIL THE PERMANENT DETECTION IS INSTALLED AND UNTIL MANATEE COUNTY ACCEPTS THE PROJECT. ANY DAMAGE TO THE EXISTING DETECTION SYSTEM AT AN INTERSECTION MUST BE RESTORED WITHIN TWENTY-FOUR (24) HOURS AT NO ADDITIONAL COST TO THE COUNTY.

9. GROUNDING: ALL GROUND ROD EQUIPMENT SHALL BE BONDED TOGETHER TO FORM AN INTEGRATED GROUNDING SYSTEM USING #6 AWG THHN COPPER WIRE. THE UPPER END OF ALL GROUND RODS SHALL BE 18 INCHES BELOW GROUND ELEVATION. MARK GROUND ROD LOCATIONS WITH PERMANENT MARKER SUCH AS AN EPOXY STICKER LOCATED ON THE NEAREST CURB AND PROVIDE AS-BUILT DRAWINGS WITH THE LOCATION OF GROUND RODS MARKED. GROUNDING CONDUCTOR MUST BE #6 OR LARGER INSULATED COPPER. EQUIPMENT SHALL NOT BE PLACED INTO OPERATIONAL SERVICE UNTIL THE ASSOCIATED GROUNDING SYSTEM HAS BEEN INSPECTED AND APPROVED BY A MEMBER OF THE MANATEE COUNTY TRAFFIC OPERATIONS STAFF.

10. PRIOR TO SCHEDULING THE INITIAL TRAFFIC SIGNAL INSPECTION, DELIVER THREE HARDCOPY SETS OF AS-BUILT RECORD DRAWINGS, TWO SETS OF IMSA INSPECTION FORMS, OTDR FIBER OPTIC CABLE TEST RESULTS, AND ONE COMPACT DISC OF RECORD DRAWINGS IN ADOBE ACROBAT (.PDF) AND AUTOCAD (.DWG) FORMAT TO:

MANATEE COUNTY TRAFFIC ENGINEERING DIVISION
MR. MUKUNDA GOPALAKRISHNA, P.E., PTOE
2101 47TH TERRACE EAST
BRADENTON, FLORIDA 34203

11. AT THE COMPLETION OF THE PROJECT PROVIDE A SET OF "AS-BUILT" PLANS IN ELECTRONIC FORM (PDF) TO:

JAMES NICHOLS, P.E.
FLORIDA DEPARTMENT OF TRANSPORTATION
MANATEE OPERATIONS CENTER
14000 STATE ROAD 64 EAST
BRADENTON, FL 34212
941-708-4429

FDOT TRAFFIC OPERATIONS
RENJAN JOSEPH, P.E.
TSM&O ENGINEER
801 N. BROADWAY AVE.
BOX 1249
BARTOW, FL 33830-1249
RENJAN.JOSEPH@DOT.STATE.FL.US
863-519-2746

12. THE CONTRACTOR SHALL HAVE AN IMSA CERTIFIED LEVEL II (ELECTRONICS OR ELECTRICAL TECHNICIAN) ON THE JOB SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. CERTIFICATION OF ALL TECHNICIANS SHALL BE PROVIDED TO THE COUNTY PRIOR TO BEGINNING WORK. SIGNAL INSTALLATION TECHNICIANS SHALL HAVE A MINIMUM OF IMSA LEVEL I CERTIFICATION.

13. THE CONTRACTOR SHALL PROVIDE A WARRANTY/MAINTENANCE BOND FOR THE SIGNAL INSTALLATIONS IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 611-5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING BOND REQUIREMENTS WITH JANE OLIVER, MANATEE COUNTY PUBLIC WORKS SENIOR ADMINISTRATIVE SPECIALIST, AT (941) 708-7450, EXT. 7613.

14. WHERE MAST ARM, 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 FOUNDATION.

15. 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. INTERPOLATION BETWEEN POINTS HAVE NOT BEEN VERIFIED.

16. RESPONSIBILITIES RELATED TO UTILITIES ARE NOTED IN THE ROADWAY PLANS. SEE ROADWAY PLANS FOR UTILITY CONTACT INFORMATION.

17. NOTIFY FLORIDA POWER AND LIGHT AT LEAST THREE (3) FULL BUSINESS DAYS PRIOR TO ANY INSTALLATION THAT IS WITHIN THE CLEAR DISTANCE PER OSHA'S CURRENT REQUIREMENTS OF ENERGIZED ELECTRICAL CONDUCTORS. FLORIDA POWER AND LIGHT, AT ITS OPTION, WILL ASSIST THE CONTRACTOR TO COVER UP ENERGIZED CONDUCTORS AT INSTALLATION SITES OR TAKE OTHER SAFETY PRECAUTIONS AS NECESSARY. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS. FINAL OFFSETS FOR ITS OR SIGNAL STRUCTURES MUST BE A MINIMUM OF 10 FEET FROM OVERHEAD CONDUCTORS.

18. COORDINATE PAVEMENT MARKINGS AND SIGNAGE WORK WITH THE SCHEDULING OF SIGNAL ACTIVATION. DO NOT ACTIVATE THE SIGNAL UNTIL ALL PROPOSED STOP BARS, CROSSWALKS, RAMPS, AND PAVEMENT REMOVAL WORK IS COMPLETE. COORDINATE REMOVAL OF THE EXISTING STOP SIGNS UPON FULL SIGNAL ACTIVATION.

19. FIBER SPLICING REQUIREMENTS FOR WORKING ON EXISTING ITS FIBER:

- A. FDOT'S MAINTAINING AGENCY (TRANSCORE) SHALL BE NOTIFIED ONE WEEK BEFORE ANY PURPOSED FIBER ACTIVITY ON FDOT ITS FIBER.
- B. ALL SPLICING, FIBER ACTIVITIES, AND OTDR SHOTS (BACKBONE AND DROP) SHALL OCCUR BETWEEN 8 PM AND 4 AM, WITH FULL SERVICES RESTORED BY 4 AM. IF A SPLICE PLAN CAN BE PROVIDED DEMONSTRATING THE WORK CAN BE COMPLETED BETWEEN 10 AM AND 4 PM, THE DEPARTMENT WILL CONSIDER AN ADDITIONAL WINDOW.
- C. FDOT'S MAINTAINING AGENCY (TRANSCORE) SHALL BE PERMITTED ON-SITE TO REVIEW ANY WORK COMPLETED DURING FIBER OUTAGE.
- D. ALL SPLICING ACTIVITIES SHALL COMPLY WITH THE CURRENT FDOT STANDARD SPECIFICATION 633.
- E. TRANSCORE SHALL BE NOTIFIED ONE HOUR BEFORE ANY ACTIVE FIBER (BACKBONE OR DROP) IS CUT OR WORKED ON (PHONE NUMBER SHALL BE SUPPLIED ON THE DAY OF WORK).
- F. ON CUTOVERS/FULL BUTT SPLICES, PRIORITY FOR ALL SPLICING ACTIVITIES SHALL BE PROVIDED BY TRANSCORE PRIOR TO THE PLANNED OUTAGE. ALL EFFORTS SHALL BE MADE TO RESTORE CONTINUITY PRIORITY BUFFER TUBES BEFORE CONTINUING WITH THE REMAINING BUFFER TUBES.
- G. ON CUTOVERS/FULL BUTT SPLICES, ONCE THE PRIORITY BUFFER TUBES HAVE BEEN RESTORED ON THE BACKBONE, TRANSCORE SHALL BE NOTIFIED.
- H. TRANSCORE SHALL BE NOTIFIED TO VERIFY COMMUNICATIONS ONCE ALL REMAINING BUFFER TUBES AND DROPS HAVE BEEN SPLICED AND FIBER ACTIVITIES COMPLETED.
- I. BI-DIRECTIONAL OTDR SHOTS OF THE FIBER WORKED ON AND SPLICES (BOTH BACKBONE AND DROPS) WILL BE DELIVERED TO FDOT FOR REVIEW THREE BUSINESS DAYS AFTER COMPLETING THE FIBER WORK.

PAY ITEM NOTES

1. 630-2-11, 630-2-12, 630-2-14:
INSTALL TWO TWO-INCH CONDUITS FOR THE FIBER TRUNK CONNECTION. PROVIDE ERM'S AT LOCATIONS INDICATED IN THE PLANS.
USE RIGID ALUMINUM CONDUIT FOR ABOVE-GROUND APPLICATION.

2. 632-7-1:
CONTACT MANATEE COUNTY FOR COLOR CODE VERIFICATION.

THIS PAY ITEM INCLUDES CONDUCTORS TO POWER THE OVERHEAD ILLUMINATED STREET NAME SIGNS AND CONDUCTORS INSTALLED TO THE FIRE STATION AT GATEWAY BLVD FOR FIRE STATION PREEMPTION.

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		SHEET NO. T-8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID	
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GENERAL NOTES (1)

SIGNALIZATION GENERAL NOTES (CONT.)

- 3. 633-1-121, 633-1-123:
USE 48 COUNT SINGLE MODE FOR CONNECTION TO THE EXISTING ITS TRUNK AT I-75. USE 12 COUNT SINGLE MODE FOR ALL DROP CABLES ON MOCCASIN WALLOW ROAD.
- 4. 633-3-16:
TERMINATE ALL DROP FIBERS WITH SC TYPE CONNECTORS.
- 5. 635-2-11, 635-2-12, 635-2-13:
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.

STANDARD PULL BOXES SHALL BE SIZED TO 17"X30"X12". LID LOGOS SHALL READ "MANATEE COUNTY TRAFFIC SIGNAL".

FIBER OPTIC PULL BOXES SHALL BE SIZED TO 24"X36"X36". FIBER OPTIC SPLICE BOXES SHALL BE SIZED TO 30"X60"X48".

FIBER OPTIC PULL AND SPLICE BOX LID LOGOS SHALL READ "MANATEE COUNTY FIBER OPTIC SYSTEM".
- 6. 639-1-122, 639-3-11:
THIS PAY ITEM INCLUDES THE COST OF ALL SPECIAL IMPACT CONNECTION FEES CHARGED BY THE LOCAL POWER COMPANY FOR ELECTRICAL SERVICE CONNECTION. IT ALSO INCLUDES THE COST OF A PHOTOCCELL ATTACHED TO THE SERVICE DISCONNECT TO POWER THE OVERHEAD STREET NAME SIGNS.

THE ELECTRICAL SERVICE DISCONNECT SHALL BE 100 AMP MINIMUM, COMPRISED OF A SIX (6) CIRCUIT DISCONNECT BOX WITH THREE CIRCUIT BREAKERS: ONE 40 AMP FOR CONTROLLER CABINET, ONE 15 AMP FOR INTERNALLY ILLUMINATED STREET NAME SIGNS AND ONE 15 AMP FOR FUTURE USE.

USE RIGID ALUMINUM CONDUIT FOR ABOVE-GROUND APPLICATION.
- 7. 639-1-420:
INCLUDES COSTS FOR RELOCATING THE EXISTING ITS CABINET STEP DOWN TRANSFORMER AND DISCONNECT TO THE PROPOSED PEDESTAL.
- 8. 639-4-6:
INCLUDES FURNISHING AND INSTALLING A BASE MOUNTED GENERATOR CABINET ASSEMBLY COMPATIBLE WITH MANATEE COUNTY'S GENERATOR/INVERTER BACK UP PROGRAM. CABINET DIMENSIONS ARE APPROXIMATELY 36"X26"X43" WITH A PULLOUT SHELF AND INTERNAL FAN. THE GENERATOR CABINET BASE IS 36"X48" WITH THE BASE TOP AT SAME ELEVATION AS THE CONTROLLER ASSEMBLY BASE.

THE CABINET SHALL BE CAPABLE OF OPERATING A YAMAHA YG2800I INVERTER OR SIMILAR MODEL TO PROVIDE POWER TO OPERATE THE TRAFFIC SIGNAL, CONTROLLER CABINET AND ALL PERIPHERAL EQUIPMENT HOUSED THEREIN, EXCLUDING LIGHTING CIRCUITS SUCH AS ILLUMINATED STREET NAME SIGNS AND STREET LIGHTING.

THIS CABINET ASSEMBLY REQUIRES SPECIFIC DESIGN AND INSTALLATION REQUIREMENTS INCLUDING POWER CONNECTION TO THE PROPOSED POWER SERVICE AND CONTROLLER CABINET. SEE TRAFFIC INFRASTRUCTURE DESIGN GUIDE FOR MORE DETAILS.
- 9. 649-26-3:
RETURN ALL MAST ARM ATTACHMENTS (SIGNAL HEADS, VIDEO DETECTOR, OVERHEAD ILLUMINATED SIGN, ETC.) TO MANATEE COUNTY PUBLIC WORKS IN GOOD CONDITION. DISPOSE OF THE REMOVED MAST ARM POLE IN AN AREA PROVIDED BY THE CONTRACTOR.
- 10. 650-1-14, 650-1-16, 650-1-19:
ALL PROPOSED SIGNAL HEADS SHALL INCLUDE HINGED BACK PLATES.
- 11. 653-1-11:
USE LOCKING COLLARS FOR MOUNTING PEDESTRIAN SIGNAL HEADS TO PEDESTALS.
- 12. 660-3-11, 660-3-12:
CONSULT WITH THE MANUFACTURER AND USE RECOMMENDED MATERIALS AND INSTALLATION METHODS. USE EQUIPMENT COMPATIBLE WITH MANATEE COUNTY'S EXISTING ATMS SYSTEM.

USE WAVETRONIX SMARTSENSOR HD UNITS AT THE THREE MVDS DETECTION SITES.

USE WAVETRONIX SMARTSENSOR ADVANCE EXTENDED RANGE UNITS FOR DILEMMA ZONE DETECTION, LABELED AS MV-X.

USE WAVETRONIX MATRIX UNITS FOR STOP BAR DETECTION, LABELED AS RD-X.

INSTALL ALL MICROWAVE DETECTION CABLING IN CONTINUOUS LENGTHS FROM THE CONTROL CABINET TO POINT OF DEVICE TERMINATION.

ATTACH DETECTION DEVICES TO THE PROPOSED MAST ARMS USING MANUFACTURER'S RECOMMENDED HARDWARE AND POSITIONING AS REQUIRED FOR OPTIMAL OPERATION.
- 13. 660-4-60:
AT US 41 REMOVE ALL VIDEO DETECTOR CABLES IN ONE CONTINUOUS LENGTH WITHOUT CUTTING. RETURN ALL FOUR VIDEO CAMERAS, ATTACHMENT HARDWARE, CABLES, AND CABINET EQUIPMENT TO MANATEE COUNTY PUBLIC WORKS.
- 14. 660-6-321, 660-6-322:
USE BLUETOOTH SPECTRA DSRC ROADSIDE UNIT (RSU) UNITS WITH EMERGENCY VEHICLE PREEMPTION (EVP). MOUNT THE RECEIVER ON THE MAST ARM UPRIGHT NEAR THE CONTROLLER CABINET. ENSURE THE UNITS ARE DEDICATED SHORT RANGE COMMUNICATION (DSRC) ENABLED. PROVIDE ONE (1) TRAFFICCAST TC-OBUS DENSO WSU-5900A FOR EACH SYSTEM INSTALLED TO MANATEE COUNTY. ENSURE ALL UNITS MEET SOFTWARE AND LICENSING REQUIREMENTS TO BE INTEGRATED INTO MANATEE COUNTY'S CURRENT ATMS SYSTEM.

- 15. 670-5-110, 670-5-111:
THE TRAFFIC SIGNAL CONTROLLER, CONTROLLER CABINET AND ASSOCIATED HARDWARE SHALL MEET CURRENT MANATEE COUNTY SPECIFICATIONS. SEE APPENDIX 'A' OF THE TRAFFIC INFRASTRUCTURE DESIGN GUIDE FOR DETAILS. CONTACT MANATEE COUNTY TRAFFIC DESIGN DIVISION PRIOR TO ORDERING CONTROLLER ASSEMBLY TO CONFIRM EQUIPMENT COMPATIBILITY.

ALL TRAFFIC CONTROLLERS SHALL BE NAZTEC 980 ATC WITH SYNCHROGREEN ADAPTIVE CONTROL LICENSE.

ALL SIGNAL CONTROLLER CABINETS SHALL HAVE A FRONT AND BACK ACCESS DOOR.

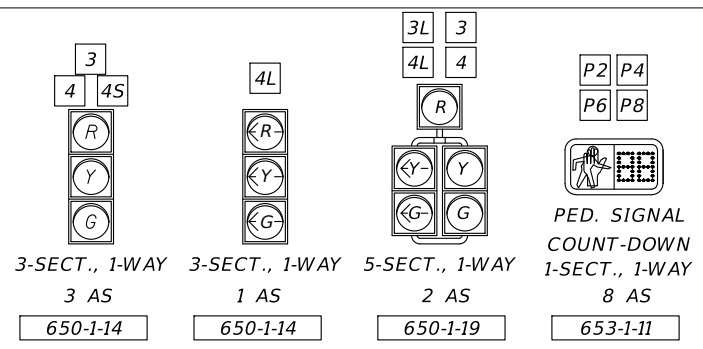
CONTROLLER CABINETS SHALL BE WIRED FOR SOP 10 REGARDLESS OF THE PROPOSED SIGNAL OPERATION AT THE INTERSECTION AND SHALL OPERATE AS PER SIGNAL OPERATING PLAN SHOWN.

SUBMIT CABINET DESIGN AND COMPONENTS TO THE COUNTY FOR APPROVAL. SEE TRAFFIC INFRASTRUCTURE DESIGN GUIDE FOR MORE DETAILS.
- 16. 670-5-400:
INCLUDES MODIFICATIONS FOR FIBER CONNECTION TO THE EXISTING ATMS SYSTEM AND PROPOSED LOCAL OPERATION.
- 17. 671-2-11:
INCLUDES FURNISHING ONE (1) NAZTEC MODEL 980 ATC CONTROLLER WITH SYNCHROGREEN ADAPTIVE CONTROL LICENSE TO MANATEE COUNTY. DELIVER THE CONTROLLER UNIT TO MR. VISHAL KAKKAD, MANATEE COUNTY TRAFFIC ENGINEERING, 2101 47TH TERRACE EAST, BRADENTON, FLORIDA 34203.
- 18. 682-1-113:
ENSURE THE CCTV CAMERA IS COMPATIBLE WITH MANATEE COUNTY'S CURRENT ATMS SYSTEM AND CAMERA SOFTWARE. USE A BOSCH ITS 7000 STARLITE SERIES 1080P 30x40 OR APPROVED EQUIVALENT. INSTALL CCTV CABLING IN A CONTINUOUS LENGTH FROM THE CONTROL CABINET TO POINT OF DEVICE TERMINATION. USE MANUFACTURER'S RECOMMENDED POE ADAPTER AND SURGE PROTECTION.

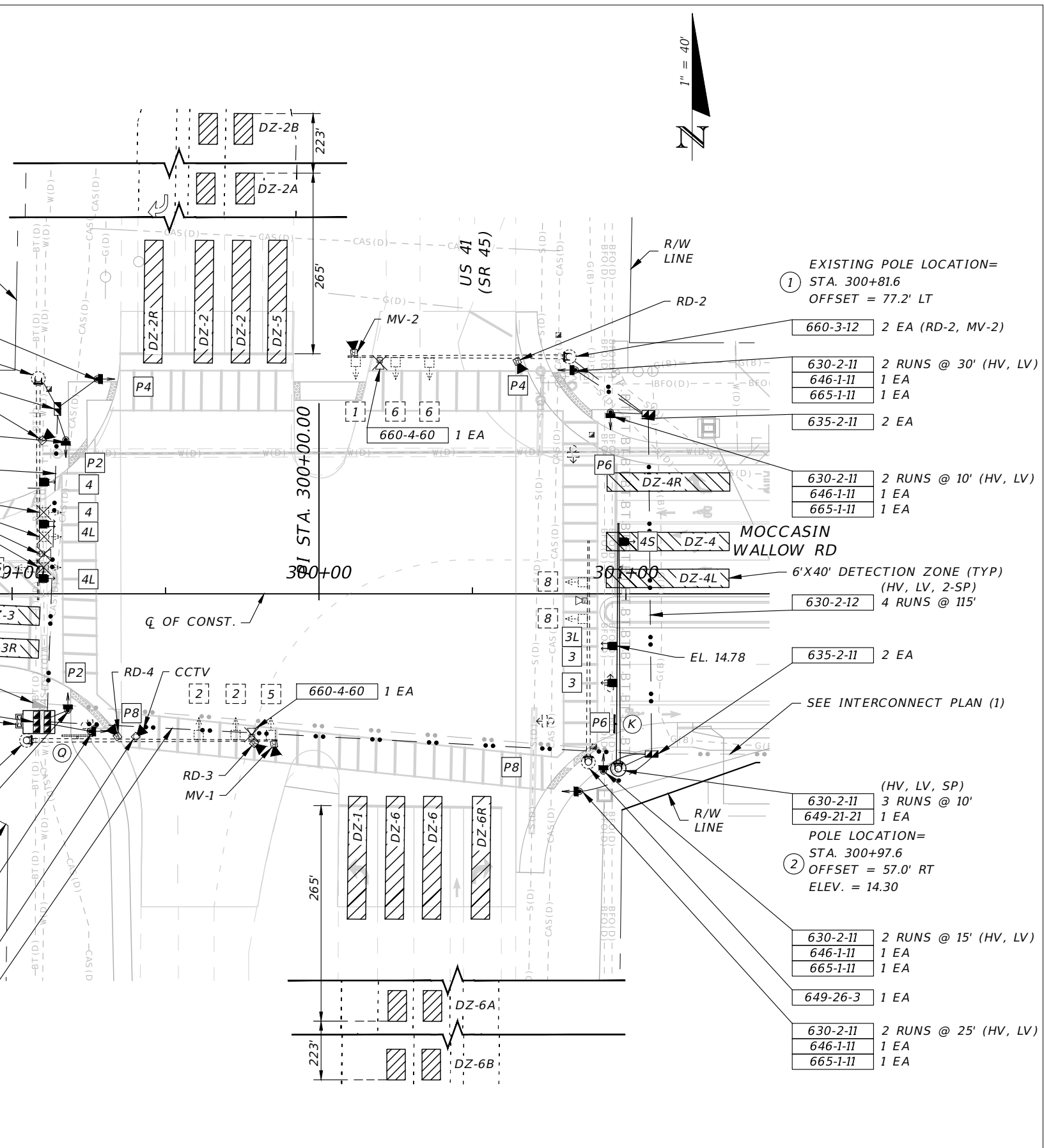
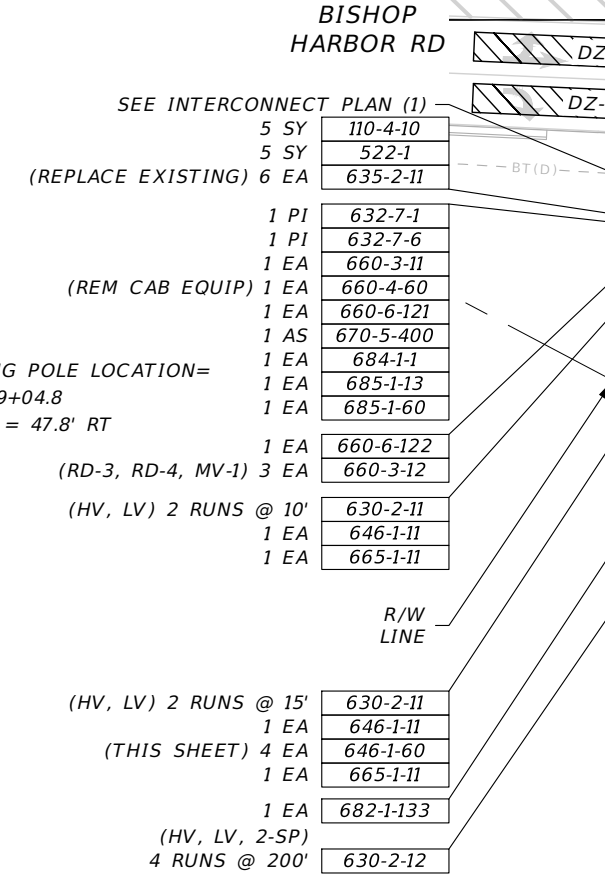
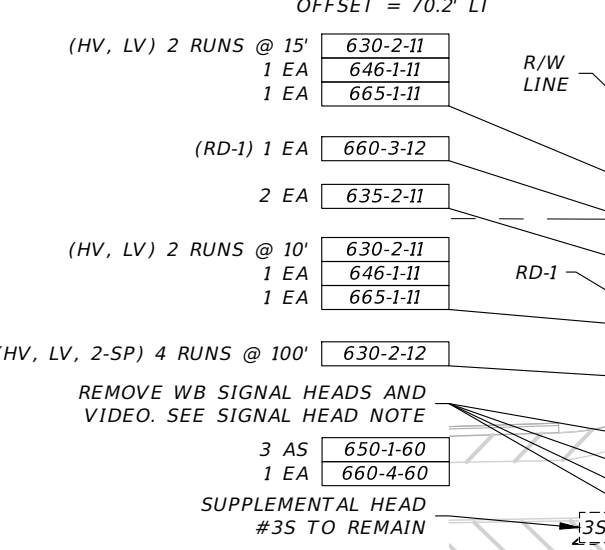
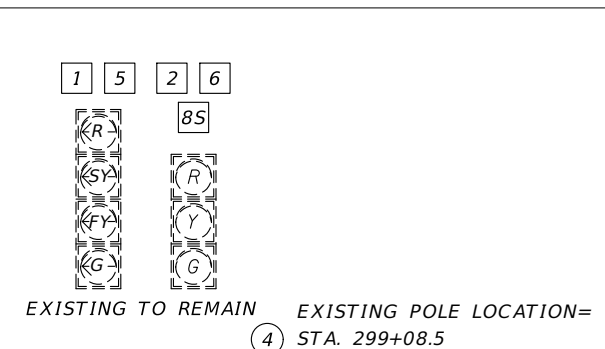
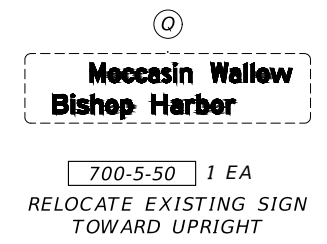
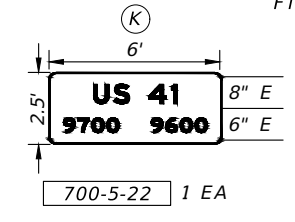
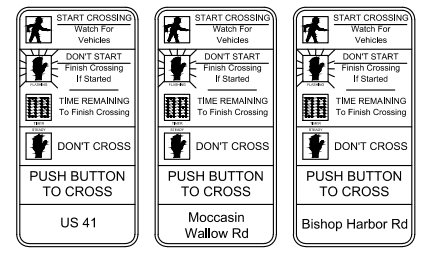
ATTACH CCTV TO THE MAST ARM USING A CURVED 1-1/2" SCHEDULE 40 ALUMINUM BRACKET, 92" IN LENGTH. POSITION FOR OPTIMAL VIEWING.
- 19. 684-1-1:
PROVIDE A FIELD MANAGED SWITCH WITH TYPE SC CONNECTORS AND EXTERNAL POWER-OVER-ETHERNET POWER SUPPLY.
- 20. 685-1-13:
PROVIDE A UPS MEETING MANATEE COUNTY'S CURRENT SPECIFICATIONS. INSTALL THE COMPLETE UPS SYSTEM INCLUDING BATTERIES IN A SEPARATE CABINET EXTERNALLY MOUNTED TO THE SIDE OF THE TRAFFIC CONTROLLER CABINET.
- 21. 685-1-60:
DELIVER THE REMOVED UPS EQUIPMENT AND BATTERIES TO MANATEE COUNTY'S PUBLIC WORKS DEPARTMENT IN GOOD WORKING ORDER.
- 22. 700-2-400:
INCLUDES ALL COSTS ASSOCIATED WITH RELOCATION OF THE EXISTING DMS CANTILEVER SIGN AND SUPPORT STRUCTURE TO A NEW FOUNDATION. THIS INCLUDES BUT IS NOT LIMITED TO FULL DEPTH REMOVAL OF THE EXISTING FOUNDATION, ABOVE GROUND CONDUIT AND CONDUCTORS, DMS CONTROL FIBER, AND MISCELLANEOUS HARDWARE.

CONDUIT LEGEND
 HV = HIGH VOLTAGE CONDUIT
 LV = LOW VOLTAGE CONDUIT
 FO = FIBER OPTIC CONDUIT
 MV = MVDS CONDUIT
 PS = POWER SERVICE CONDUIT
 SP = SPARE CONDUIT
 FP = FIRE PREEMPTION CONDUIT

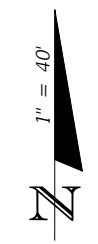
R E V I S I O N S				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		<i>GENERAL NOTES (2)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		T-9
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SIGNAL HEAD NOTE:
PERFORM ALL SIGNAL HEAD WORK ON POLE 4 WITHIN ONE WORK PERIOD.



- (HV, LV) 2 RUNS @ 15' 630-2-11
1 EA 646-1-11
1 EA 665-1-11
- (RD-1) 1 EA 660-3-12
2 EA 635-2-11
- (HV, LV) 2 RUNS @ 10' 630-2-11
1 EA 646-1-11
1 EA 665-1-11
- (HV, LV, 2-SP) 4 RUNS @ 100' 630-2-12
- REMOVE WB SIGNAL HEADS AND VIDEO. SEE SIGNAL HEAD NOTE
- 3 AS 650-1-60
1 EA 660-4-60
- SUPPLEMENTAL HEAD #35 TO REMAIN
- SEE INTERCONNECT PLAN (1)
5 SY 110-4-10
5 SY 522-1
(REPLACE EXISTING) 6 EA 635-2-11
- (REM CAB EQUIP) 1 PI 632-7-1
1 PI 632-7-6
1 EA 660-3-11
1 EA 660-4-60
1 EA 660-6-121
1 AS 670-5-400
1 EA 684-1-1
1 EA 685-1-13
1 EA 685-1-60
- EXISTING POLE LOCATION=
STA. 299+04.8
OFFSET = 47.8' RT
- (RD-3, RD-4, MV-1) 3 EA 660-3-12
- (HV, LV) 2 RUNS @ 10' 630-2-11
1 EA 646-1-11
1 EA 665-1-11
- (HV, LV) 2 RUNS @ 15' 630-2-11
1 EA 646-1-11
(THIS SHEET) 4 EA 646-1-60
1 EA 665-1-11
- 1 EA 682-1-133
(HV, LV, 2-SP) 4 RUNS @ 200' 630-2-12



REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		SHEET NO. T-10
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID	
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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.

CONTROLLER OPERATION

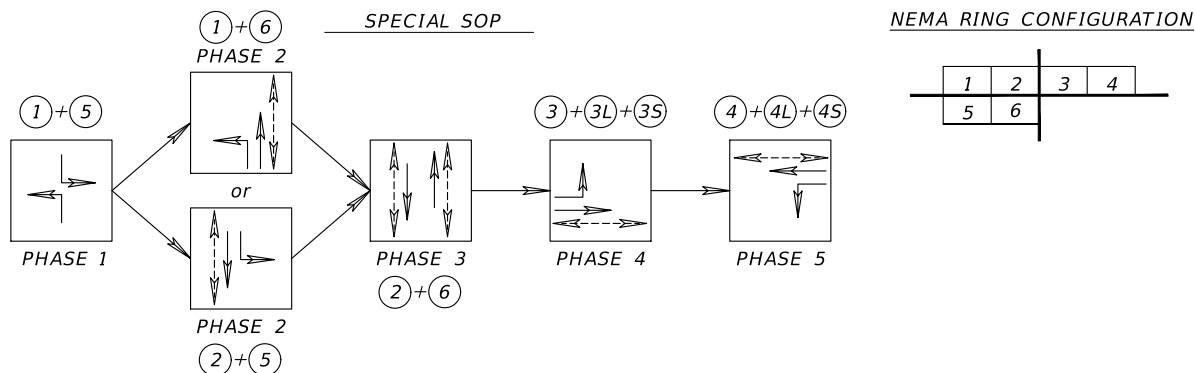
1. MAJOR STREET IS US 41, MINOR STREET IS MOCCASIN WALLOW ROAD.
2. MODIFY EXISTING CONTROLLER TO OPERATE AS INDICATED.
3. THE SIGNAL INDICATIONS SHALL FLASH YELLOW FOR CONTROLLER PHASES 2 AND 6 AND RED FOR ALL OTHER MOVEMENTS.

NOTES:

1. 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.
2. POSTED SPEED FOR US 41 IS 60 MPH. POSTED SPEED FOR MOCASSIN WALLOW ROAD IS 40 MPH. BISHOP HARBOR SPEED LIMIT IS ASSUMED 30 MPH.

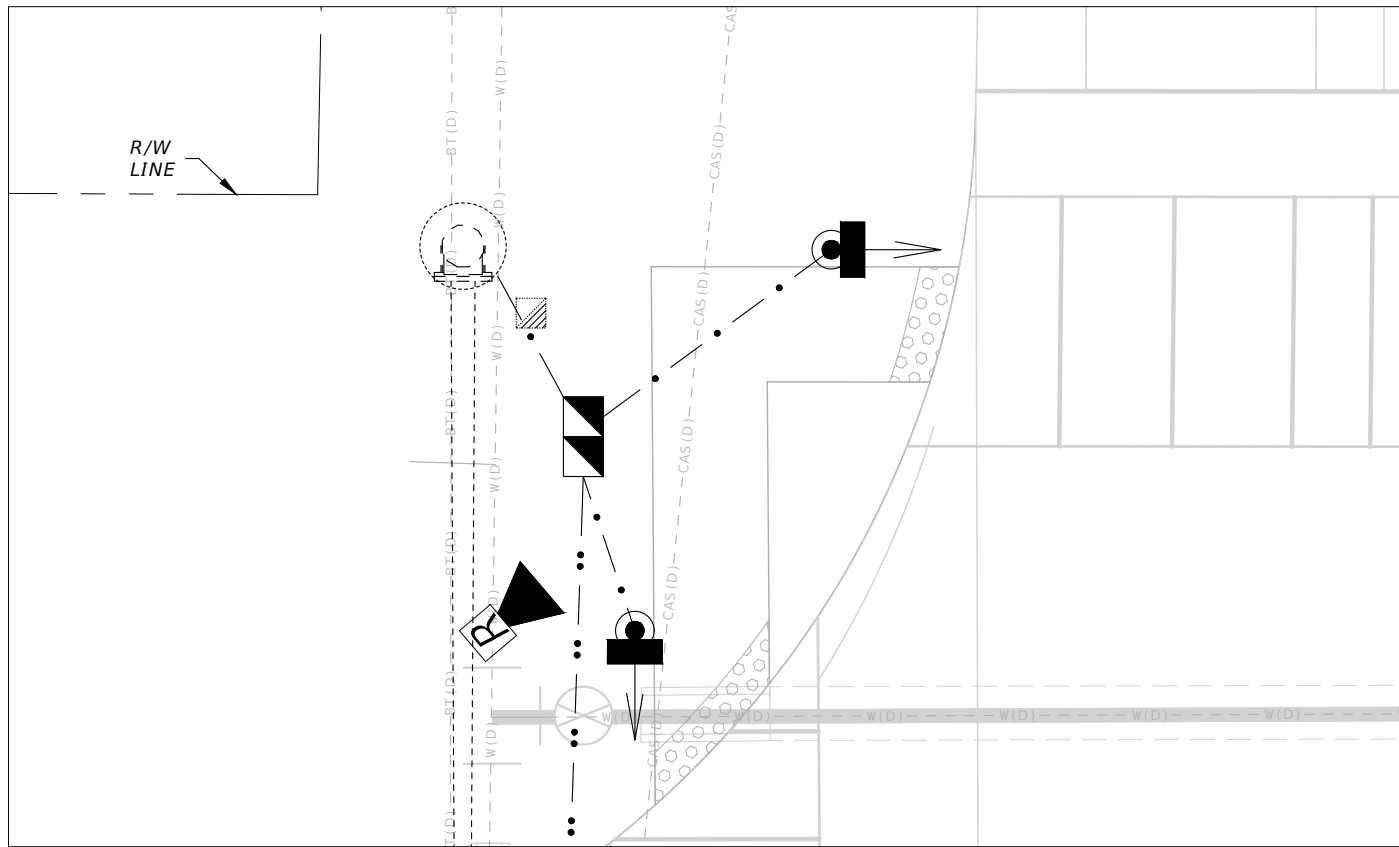
CONTROLLER TIMINGS								
MOVEMENT #	1	2	3	4	5	6	7	8
DIRECTION	NBL	SB	EB	WB	SBL	NB		
TURN TYPE	PROT				PROT			
MINIMUM GREEN	5	15	7	7	5	15		
EXTENSION	3.0	2.6	3.0	3.0	3.0	2.6		
YELLOW CLEARANCE	6.0	6.0	3.7	4.6	6.0	6.0		
ALL RED	2.5	2.0	3.0	3.8	3.1	2.0		
MAXIMUM GREEN 1	15	15	25	30	15	15		
MAXIMUM GREEN 2								
WALK		7	7	7		7		
FLASHING DON'T WALK		23	43	43		31		
DETECTOR MEMORY	ON	ON	ON	ON	ON	ON		
DET. CROSS SWITCH								
DUAL ENTRY		ON	ON	ON		ON		
RECALL		MIN				MIN		

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

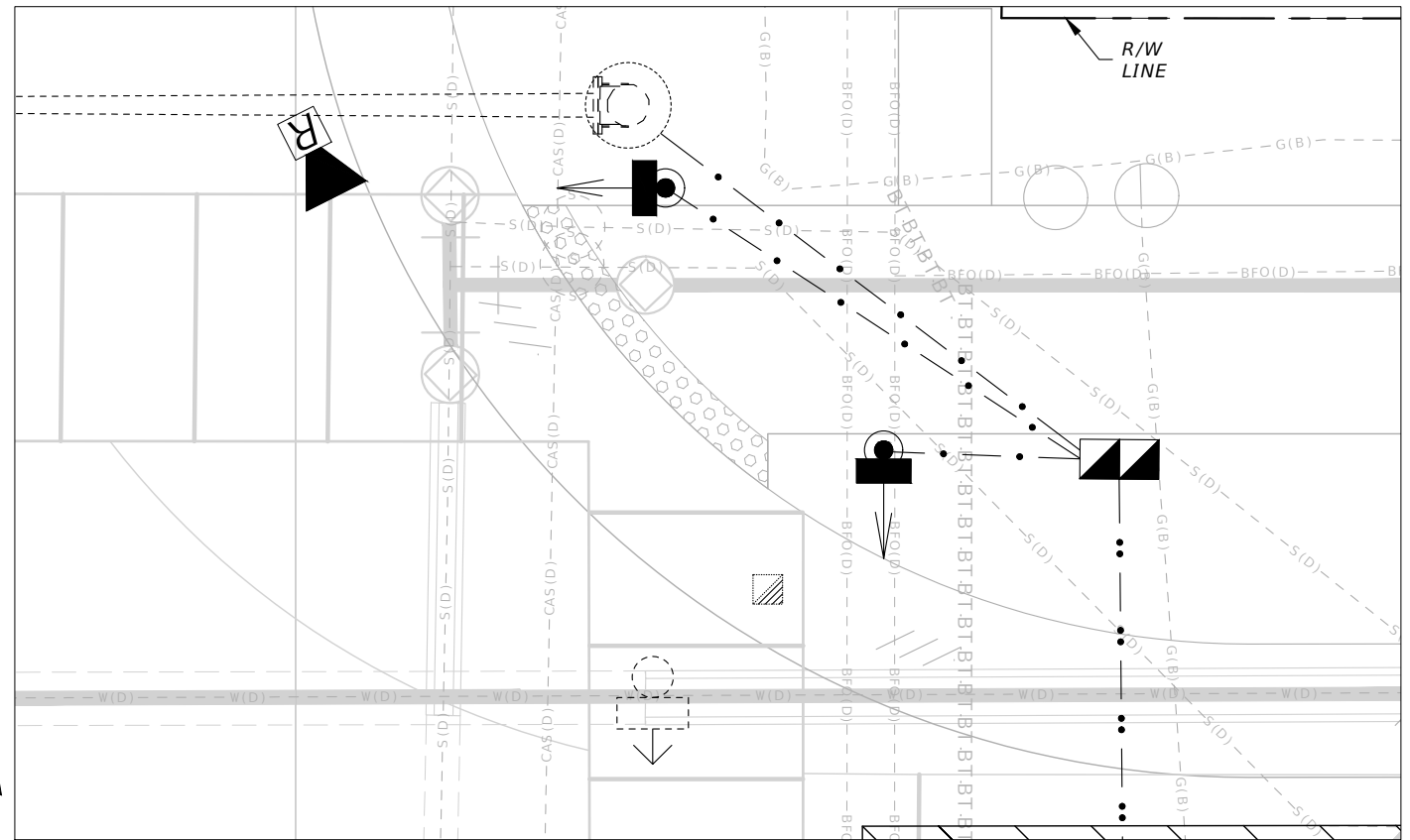


VIDEO VEHICLE DETECTION ASSIGNMENTS			
RADAR DETECTOR NO.	DETECTION ZONE	CONNECT TO MOVEMENT	DELAY TIME (SEC)
RD-1	DZ-2	2	
RD-1	DZ-2R	2	
RD-1	DZ-5	5	
RD-2	DZ-4	4	
RD-2	DZ-4R	4	8
RD-2	DZ-4L	4	
RD-3	DZ-1	1	
RD-3	DZ-6	6	
RD-3	DZ-6R	6	
RD-4	DZ-3	3	
RD-4	DZ-3R	3	8
MV-1	DZ-6A	6	
MV-1	DZ-6B	6	
MV-2	DZ-2A	2	
MV-2	DZ-2B	2	

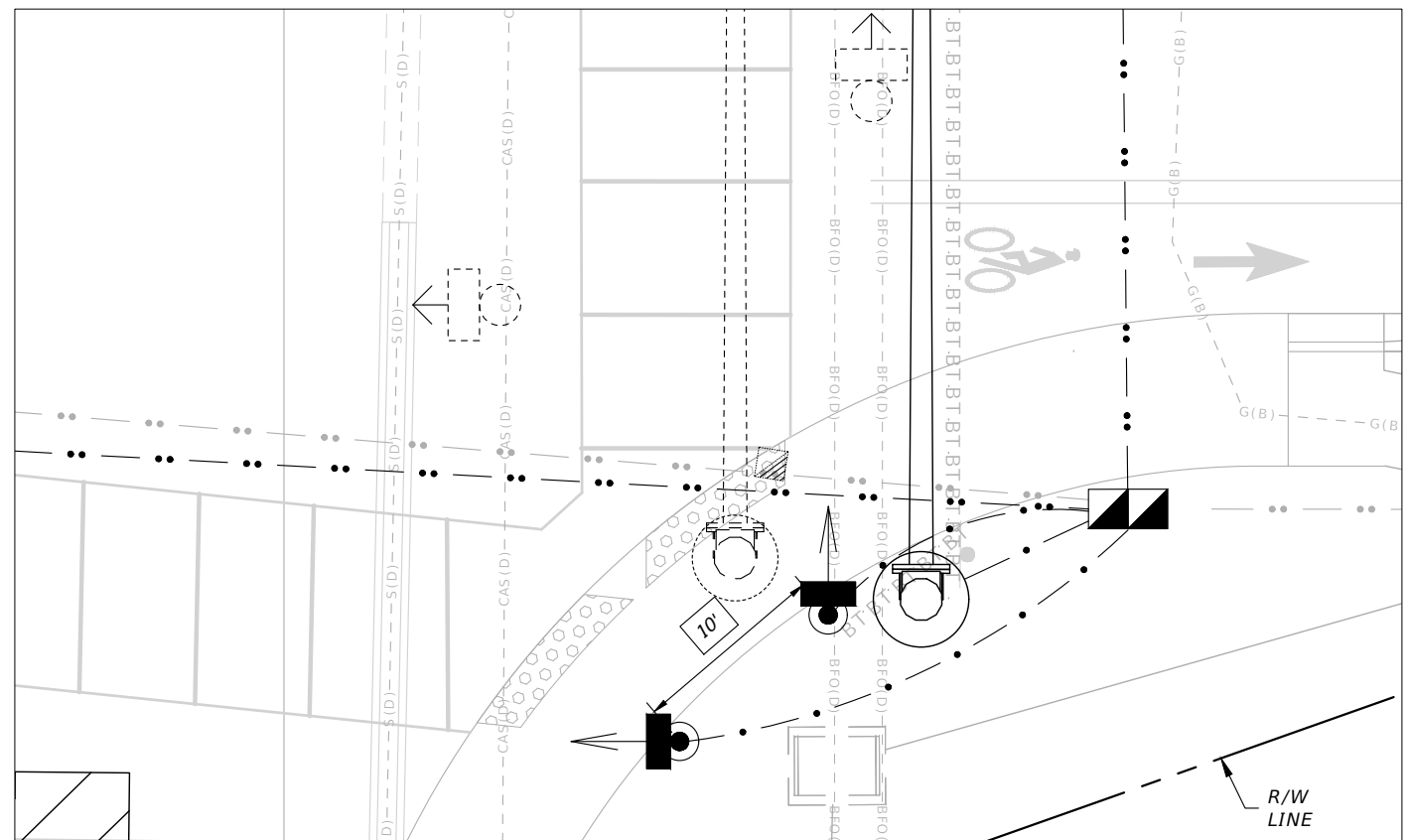
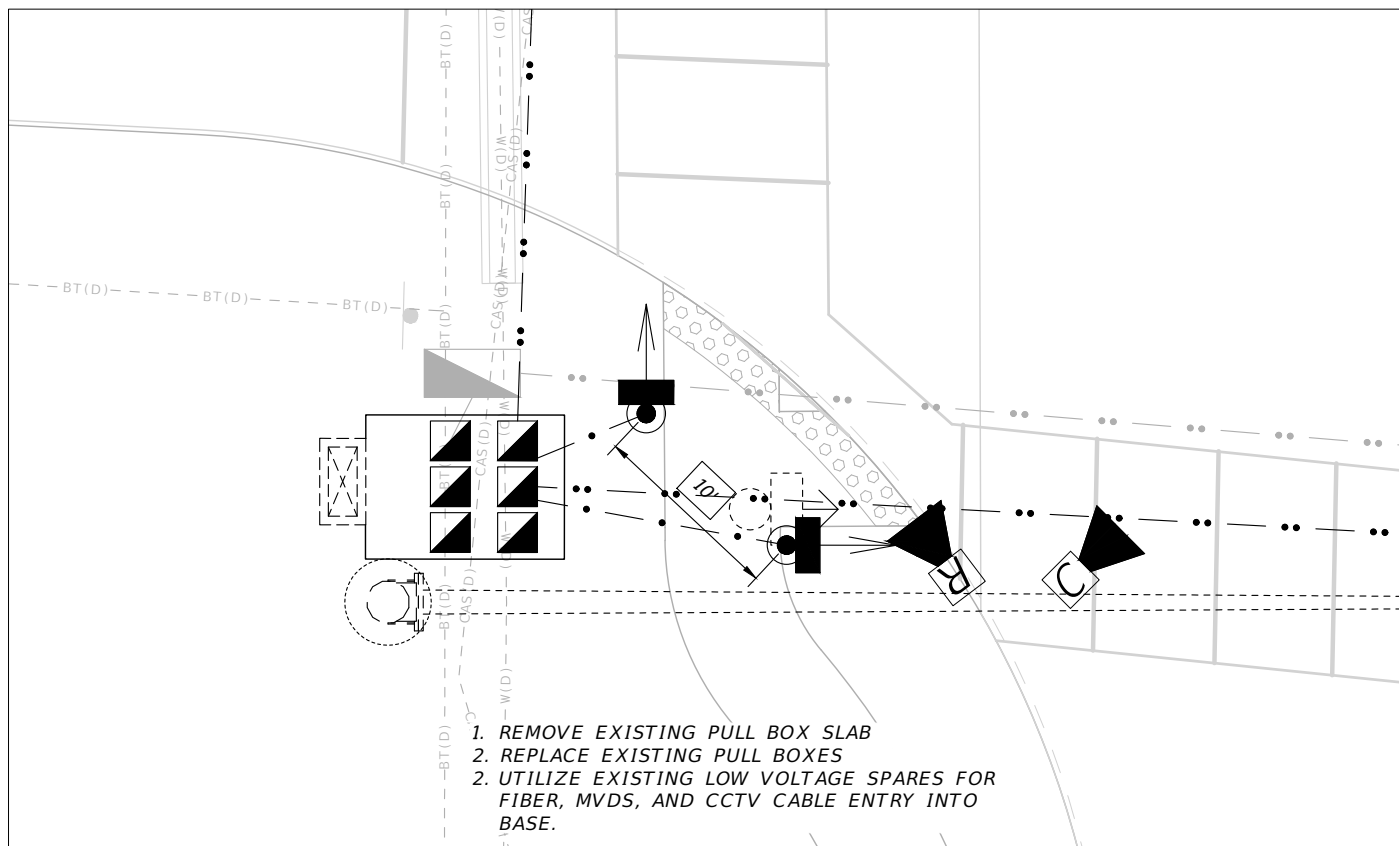
REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		SHEET NO. T-11
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID	
----	----				MOCCASIN WALLOW RD	6092560	



BISHOP HARBOR ROAD



MOCCASIN WALLOW RD



US 41
 1" = 10'

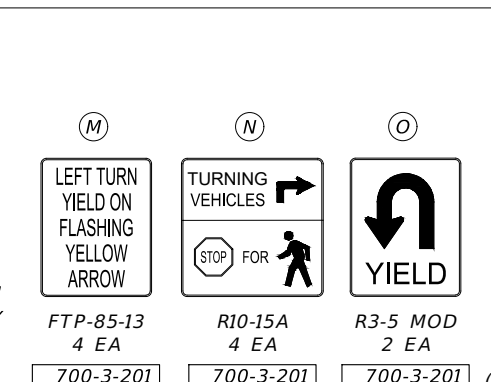
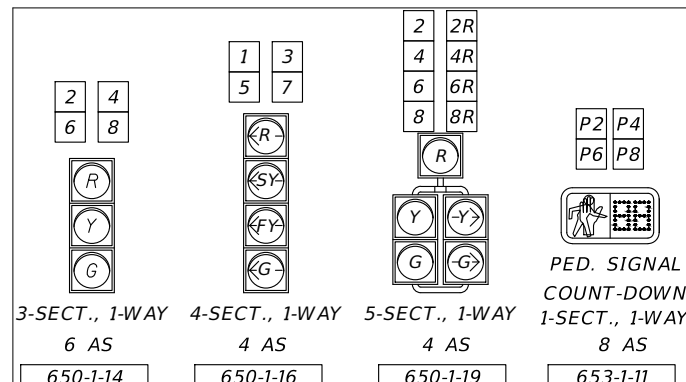
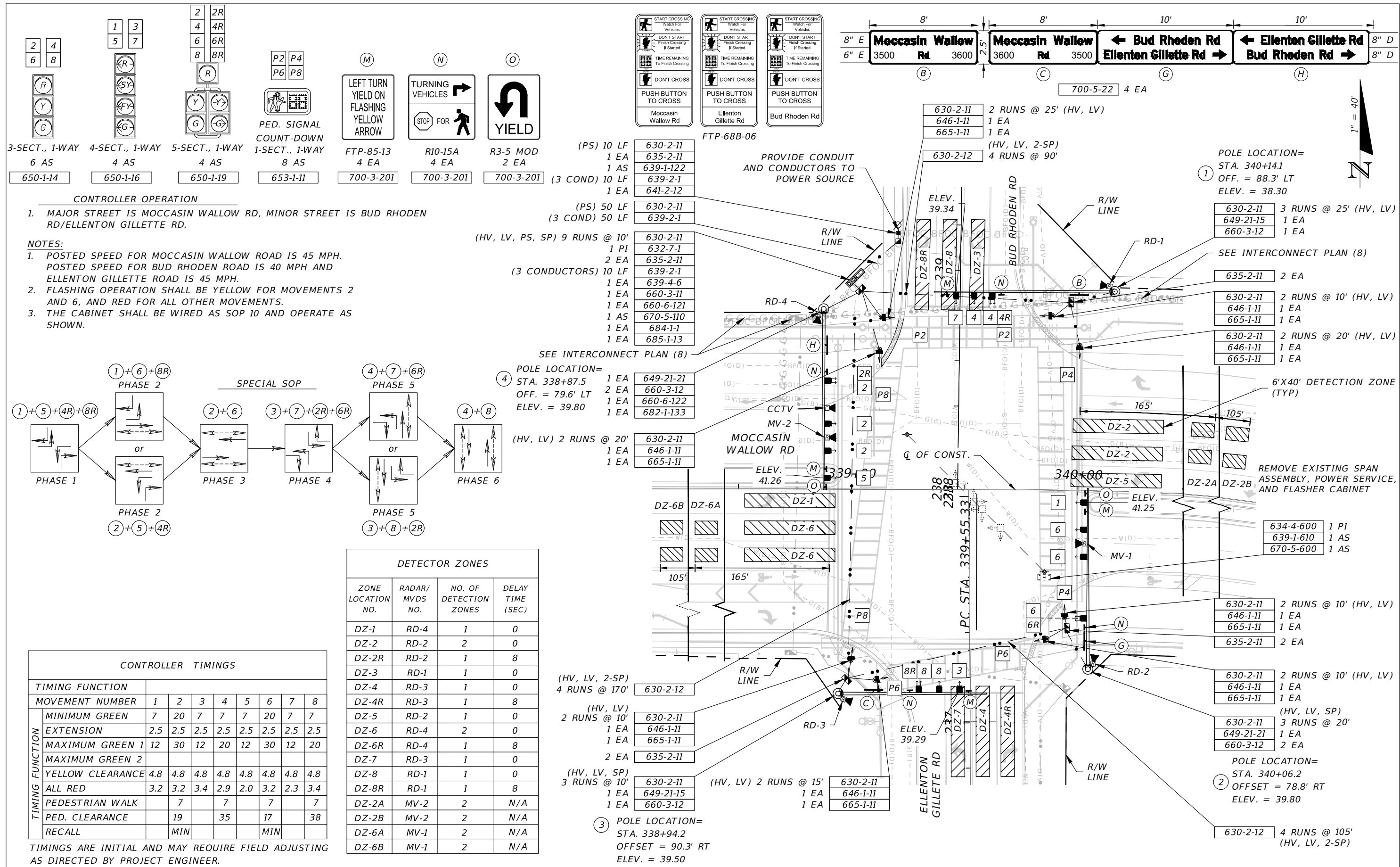
US 41

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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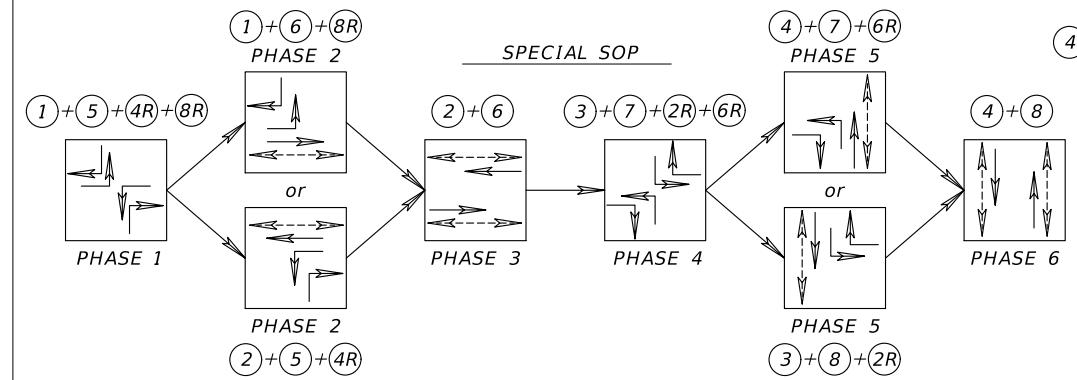
DAVID J. ALLEN, P.E.
 P.E. LICENSE NUMBER 58540
 CARDNO
 3905 CRESCENT PARK DRIVE
 RIVERVIEW, FLORIDA 33578
 CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

SIGNALIZATION PLAN (3)	
SHEET NO. T-12	



- CONTROLLER OPERATION**
- MAJOR STREET IS MOCCASIN WALLOW RD, MINOR STREET IS BUD RHODEN RD/ELLENTON GILLETTE RD.
- NOTES:**
- POSTED SPEED FOR MOCCASIN WALLOW ROAD IS 45 MPH. POSTED SPEED FOR BUD RHODEN ROAD IS 40 MPH AND ELLENTON GILLETTE ROAD IS 45 MPH.
 - FLASHING OPERATION SHALL BE YELLOW FOR MOVEMENTS 2 AND 6, AND RED FOR ALL OTHER MOVEMENTS.
 - THE CABINET SHALL BE WIRED AS SOP 10 AND OPERATE AS SHOWN.



DETECTOR ZONES			
ZONE LOCATION NO.	RADAR/MVDS NO.	NO. OF DETECTION ZONES	DELAY TIME (SEC)
DZ-1	RD-4	1	0
DZ-2	RD-2	2	0
DZ-2R	RD-2	1	8
DZ-3	RD-1	1	0
DZ-4	RD-3	1	0
DZ-4R	RD-3	1	8
DZ-5	RD-2	1	0
DZ-6	RD-4	2	0
DZ-6R	RD-4	1	8
DZ-7	RD-3	1	0
DZ-8	RD-1	1	0
DZ-8R	RD-1	1	8
DZ-2A	MV-2	2	N/A
DZ-2B	MV-2	2	N/A
DZ-6A	MV-1	2	N/A
DZ-6B	MV-1	2	N/A

CONTROLLER TIMINGS								
TIMING FUNCTION	1	2	3	4	5	6	7	8
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
MINIMUM GREEN	7	20	7	7	7	20	7	7
EXTENSION	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
MAXIMUM GREEN 1	12	30	12	20	12	30	12	20
MAXIMUM GREEN 2								
YELLOW CLEARANCE	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
ALL RED	3.2	3.2	3.4	2.9	2.0	3.2	2.3	3.4
PEDESTRIAN WALK	7		7		7		7	
PED. CLEARANCE	19		35		17		38	
RECALL		MIN					MIN	

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

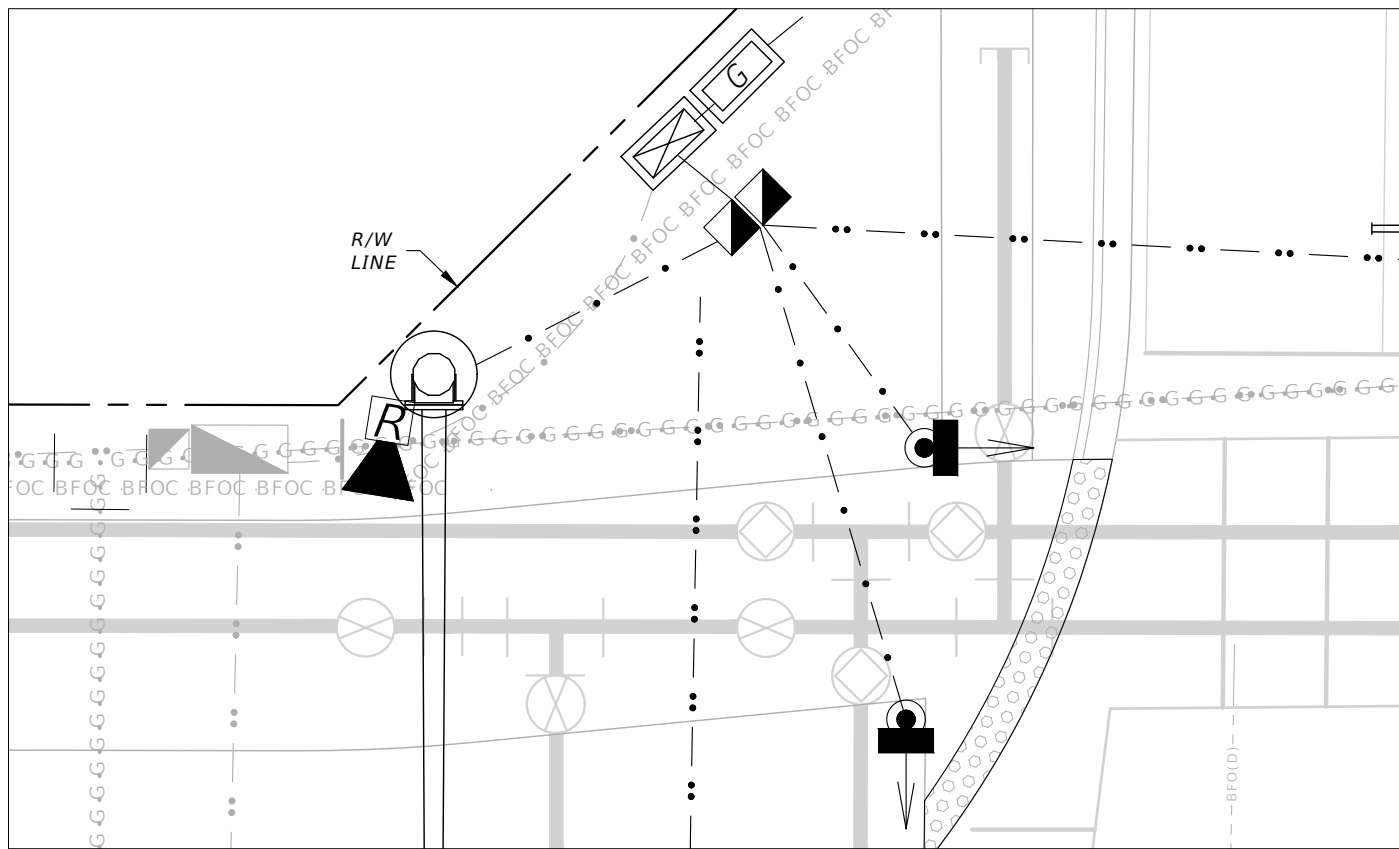
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DAVID J. ALLEN, P.E.
 P.E. LICENSE NUMBER 58540
 CARDNO
 3905 CRESCENT PARK DRIVE
 RIVERVIEW, FLORIDA 33578
 CERTIFICATE OF AUTHORIZATION 29915

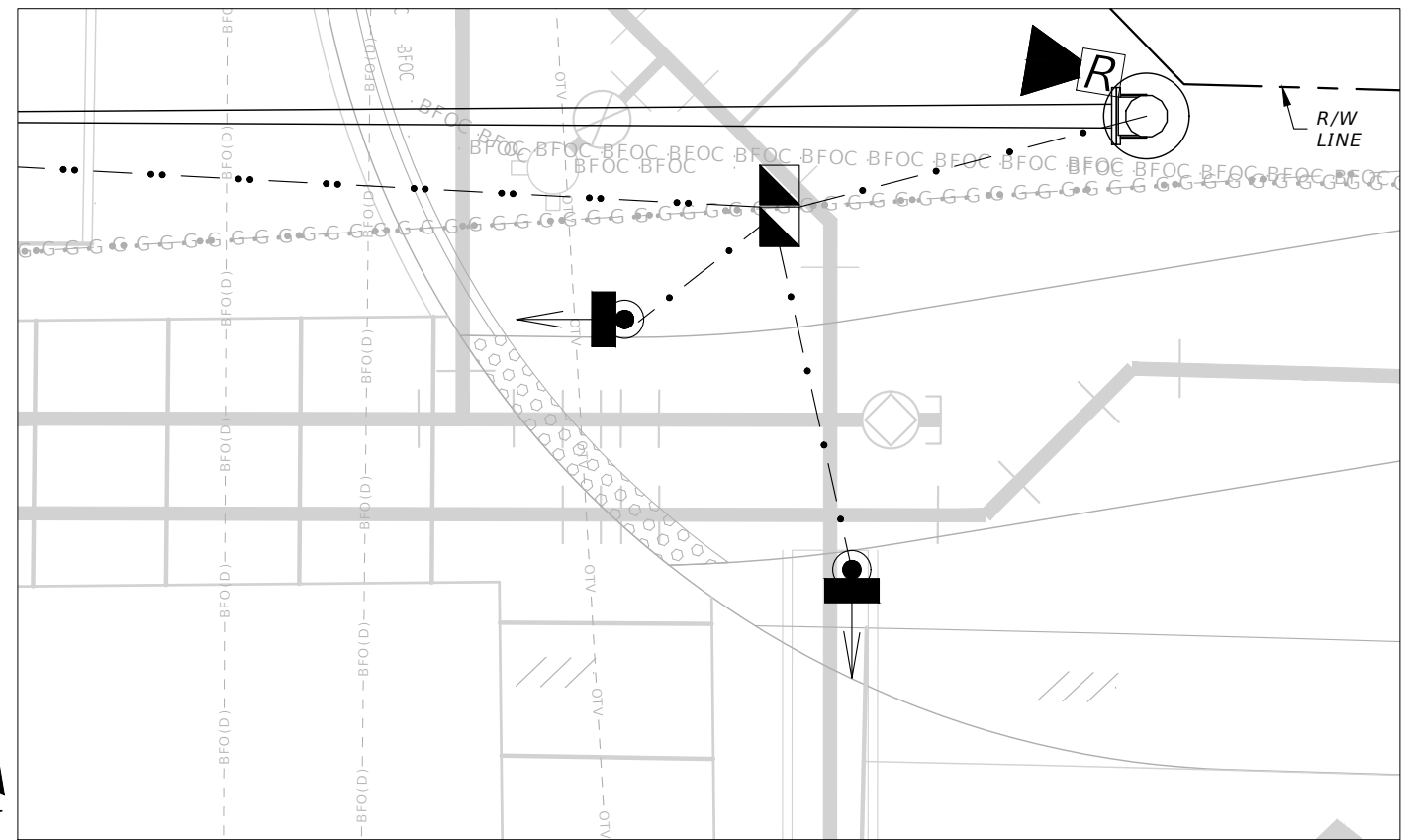
MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

SIGNALIZATION PLAN (4)	
DATE	SHEET NO.
----	T-13

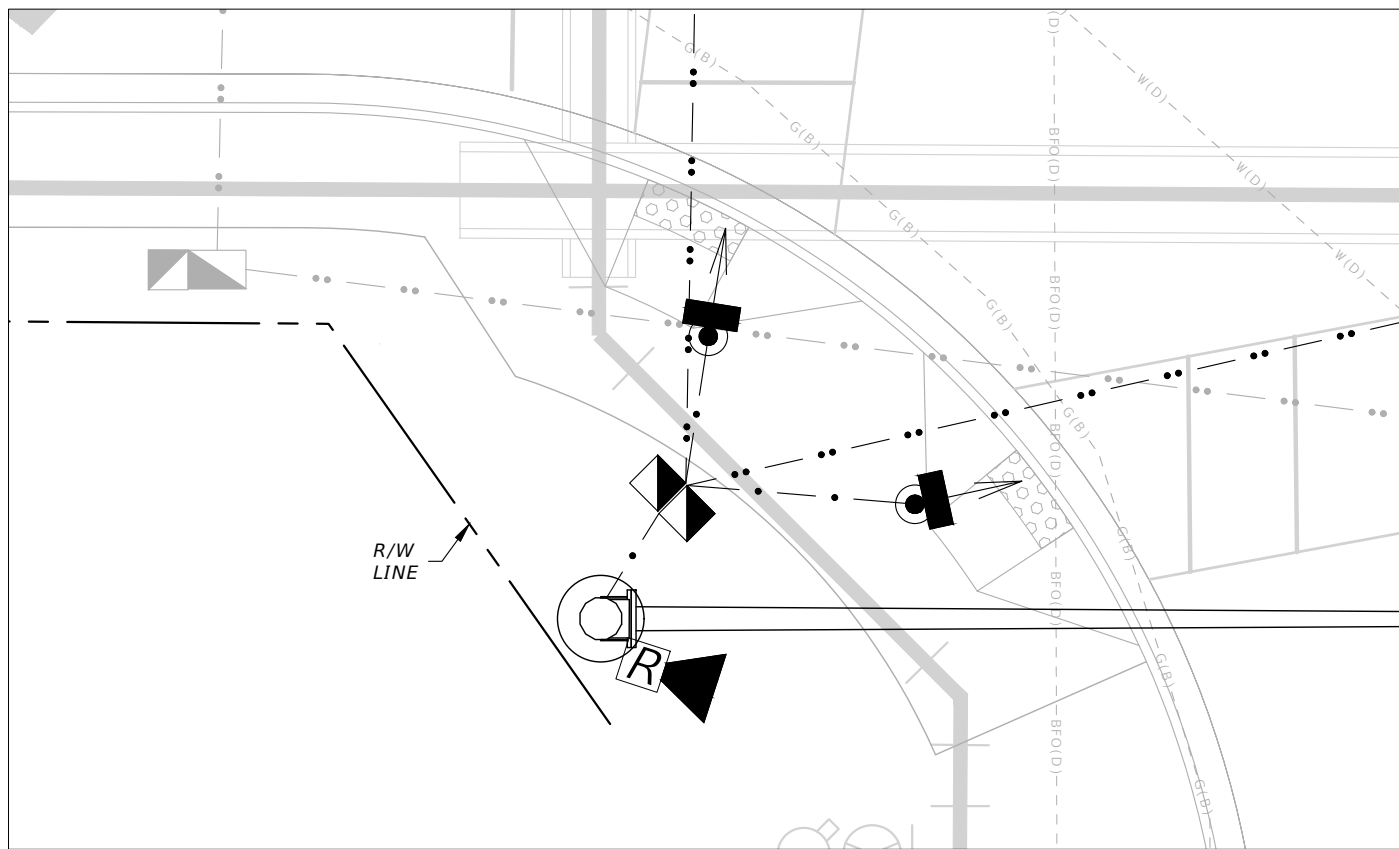
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



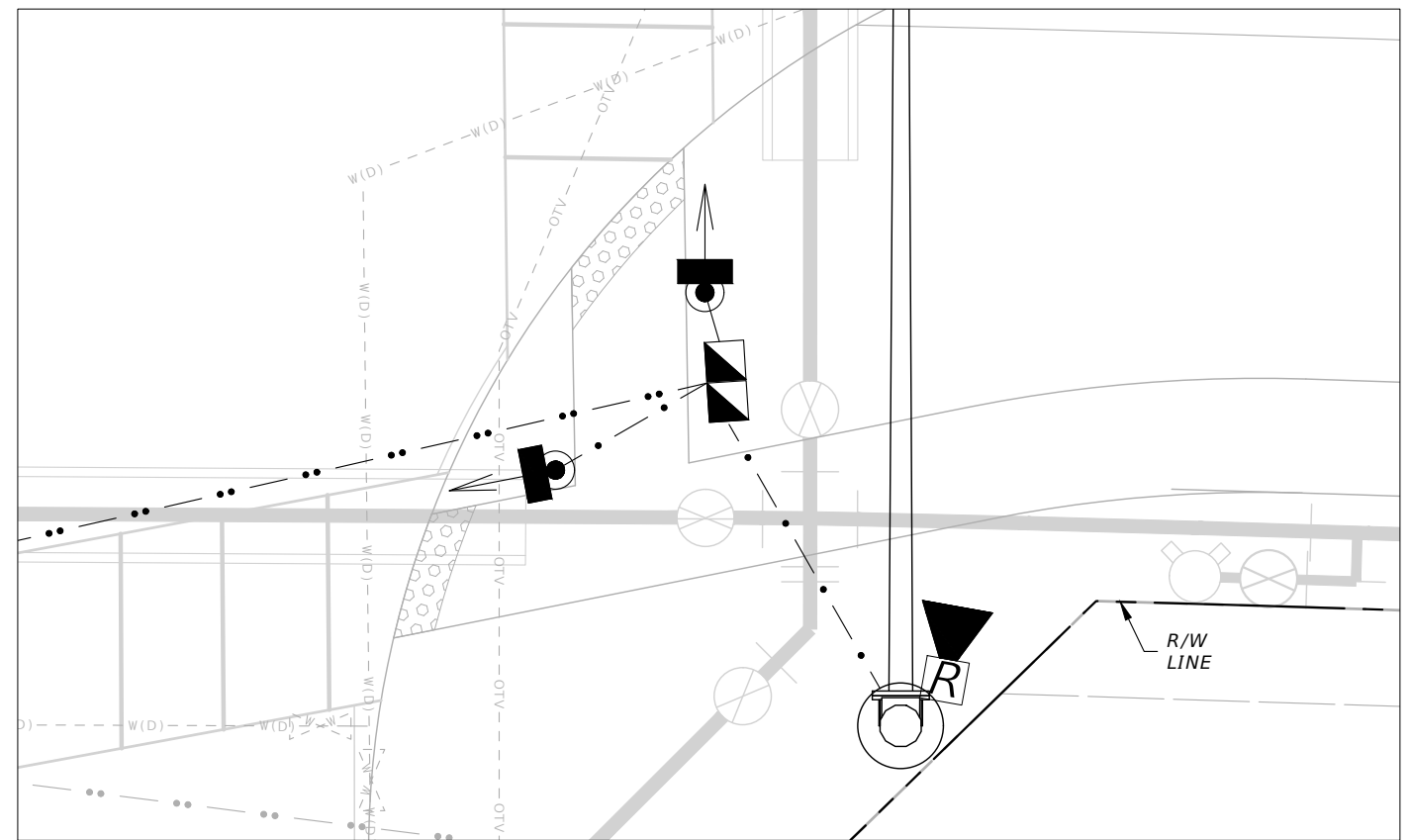
MOCCASIN WALLOW RD



MOCCASIN WALLOW RD



ELLESTON GILLETTE ROAD



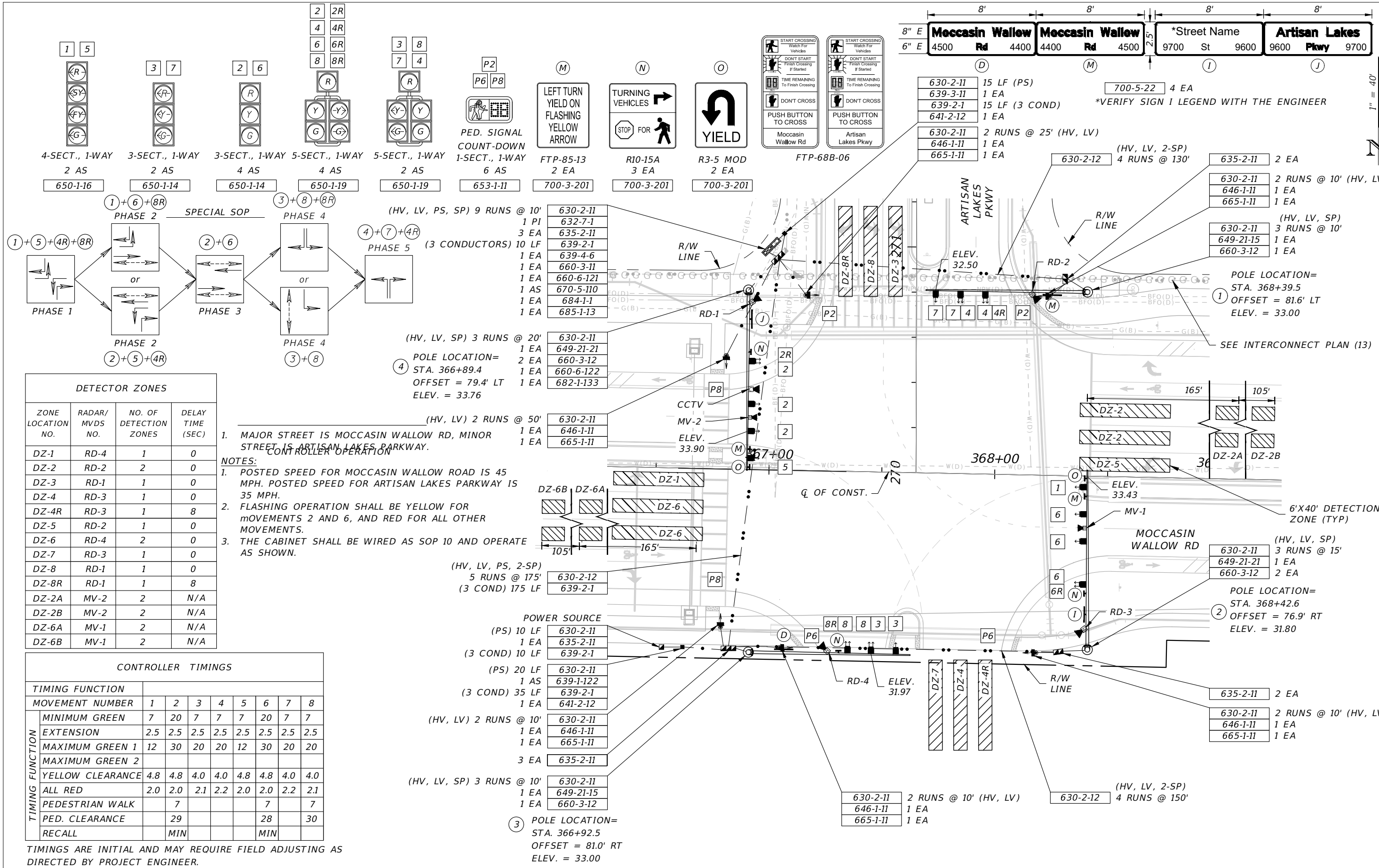
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
CARDNO
3905 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA 33578
CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

SIGNALIZATION PLAN (5)

SHEET NO.
T-14



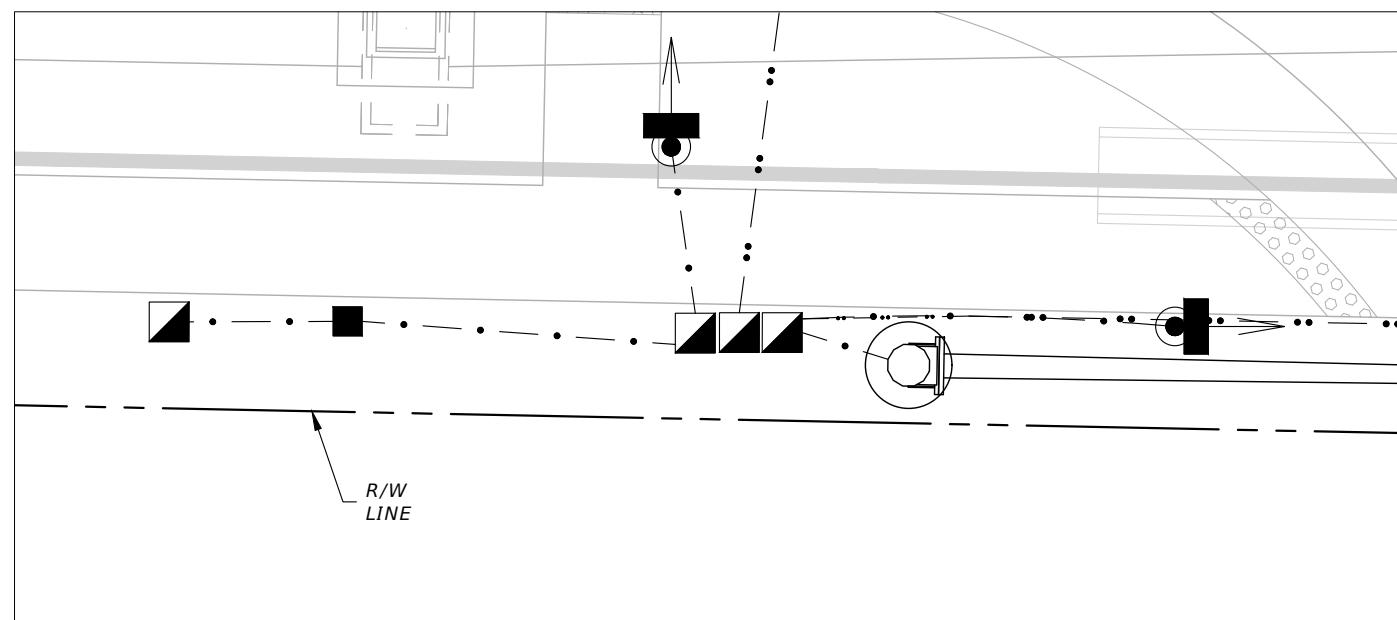
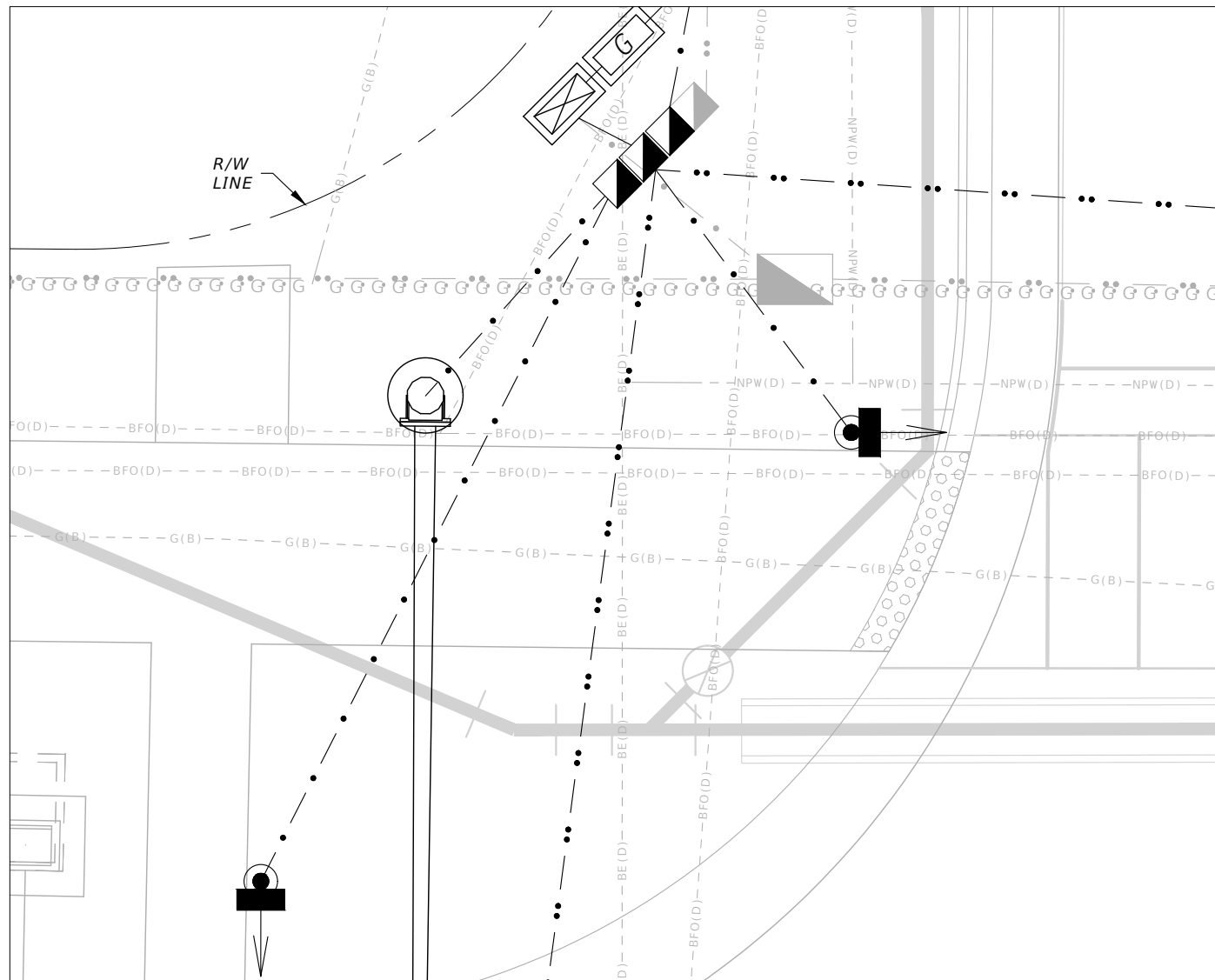
DETECTOR ZONES			
ZONE LOCATION NO.	RADAR/MVDS NO.	NO. OF DETECTION ZONES	DELAY TIME (SEC)
DZ-1	RD-4	1	0
DZ-2	RD-2	2	0
DZ-3	RD-1	1	0
DZ-4	RD-3	1	0
DZ-5	RD-2	1	0
DZ-6	RD-4	2	0
DZ-7	RD-3	1	0
DZ-8	RD-1	1	0
DZ-8R	RD-1	1	8
DZ-2A	MV-2	2	N/A
DZ-2B	MV-2	2	N/A
DZ-6A	MV-1	2	N/A
DZ-6B	MV-1	2	N/A

CONTROLLER TIMINGS								
TIMING FUNCTION	1	2	3	4	5	6	7	8
MINIMUM GREEN	7	20	7	7	7	20	7	7
EXTENSION	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
MAXIMUM GREEN 1	12	30	20	20	12	30	20	20
MAXIMUM GREEN 2								
YELLOW CLEARANCE	4.8	4.8	4.0	4.0	4.8	4.8	4.0	4.0
ALL RED	2.0	2.0	2.1	2.2	2.0	2.0	2.2	2.1
PEDESTRIAN WALK		7				7		7
PED. CLEARANCE		29				28		30
RECALL		MIN				MIN		

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

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		SHEET NO. T-15
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO. MOCCASIN WALLOW RD	PROJECT ID 6092560	
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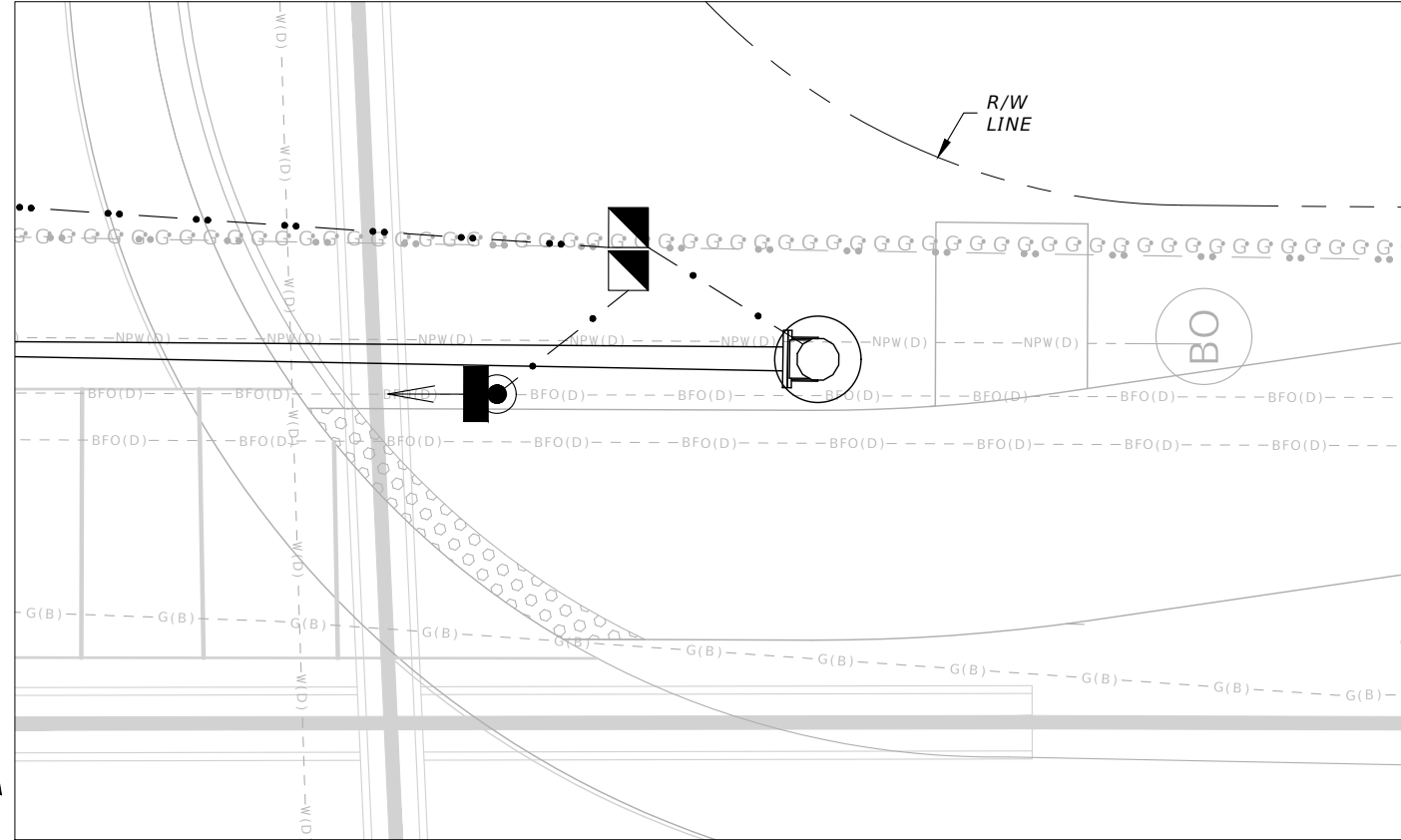
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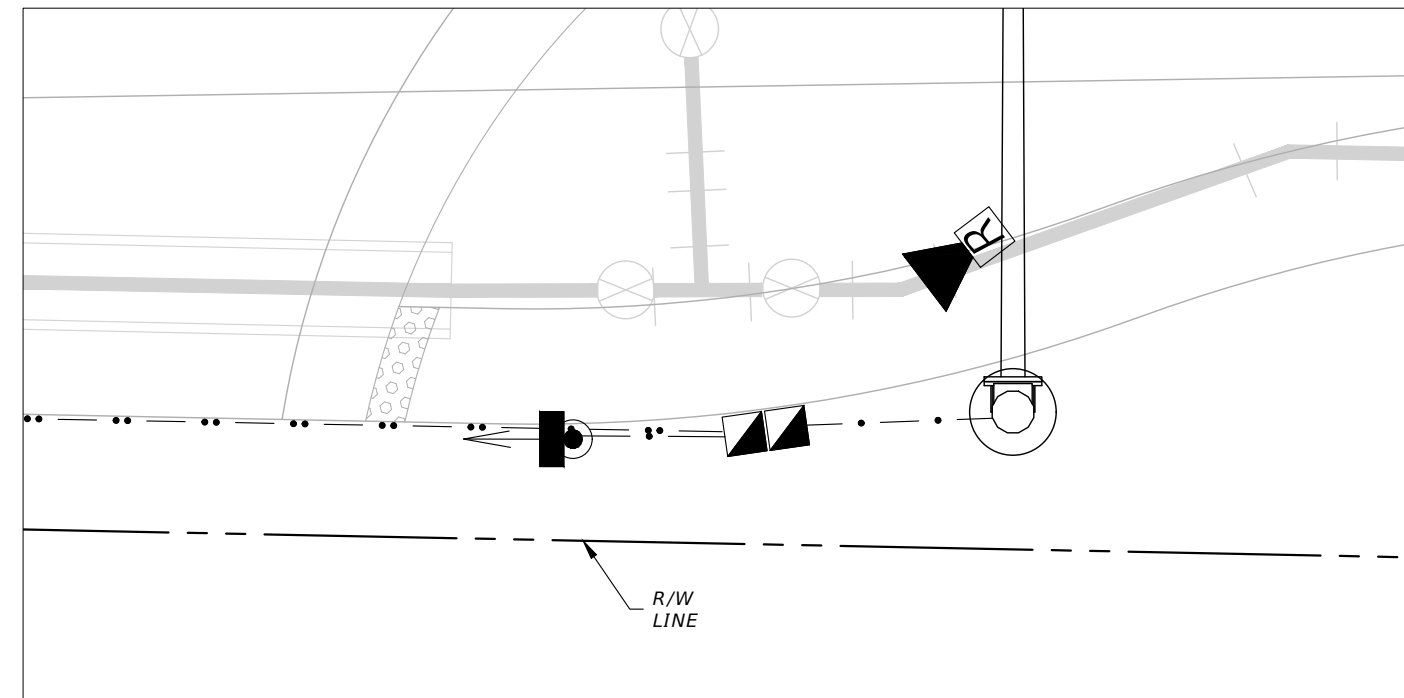
ARTISAN LAKES PARKWAY

1" = 10'

N



MOCCASIN WALLOW RD



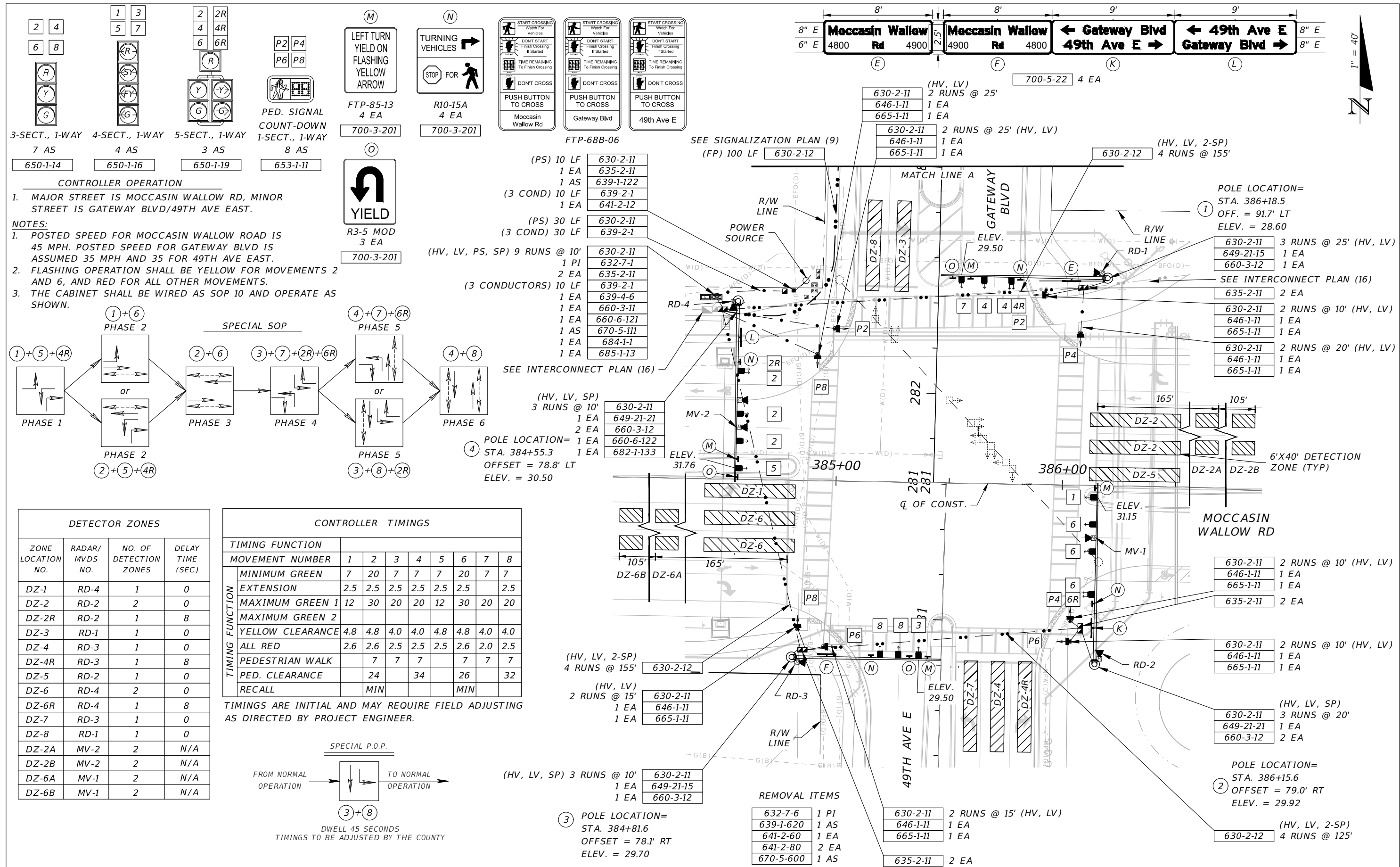
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DAVID J. ALLEN, P.E.
 P.E. LICENSE NUMBER 58540
 CARDNO
 3905 CRESCENT PARK DRIVE
 RIVERVIEW, FLORIDA 33578
 CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

SIGNALIZATION PLAN (7)

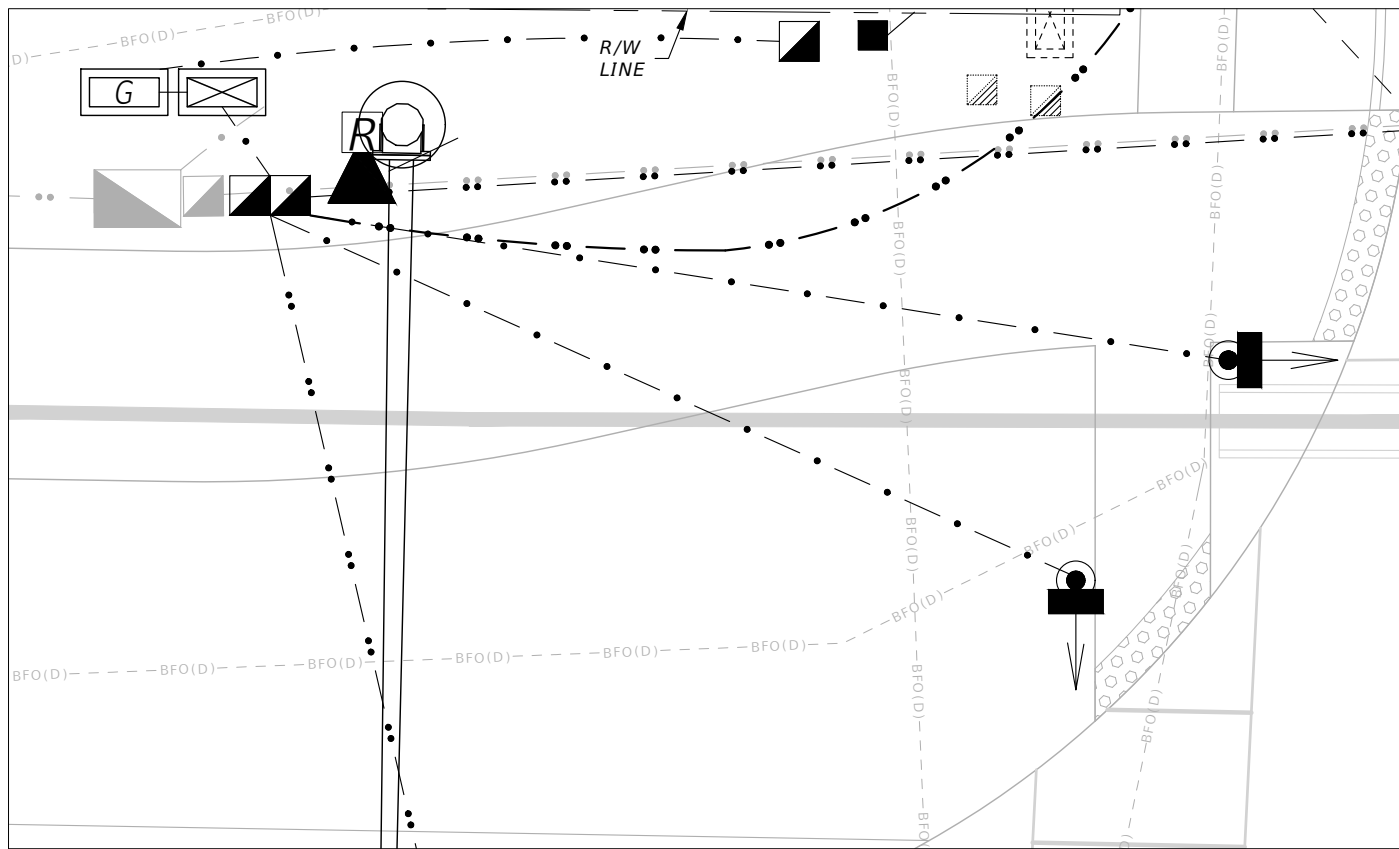
SHEET NO.
T-16



REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		SHEET NO. T-17
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID	
----	----	----	----		MOCCASIN WALLOW RD	6092560	

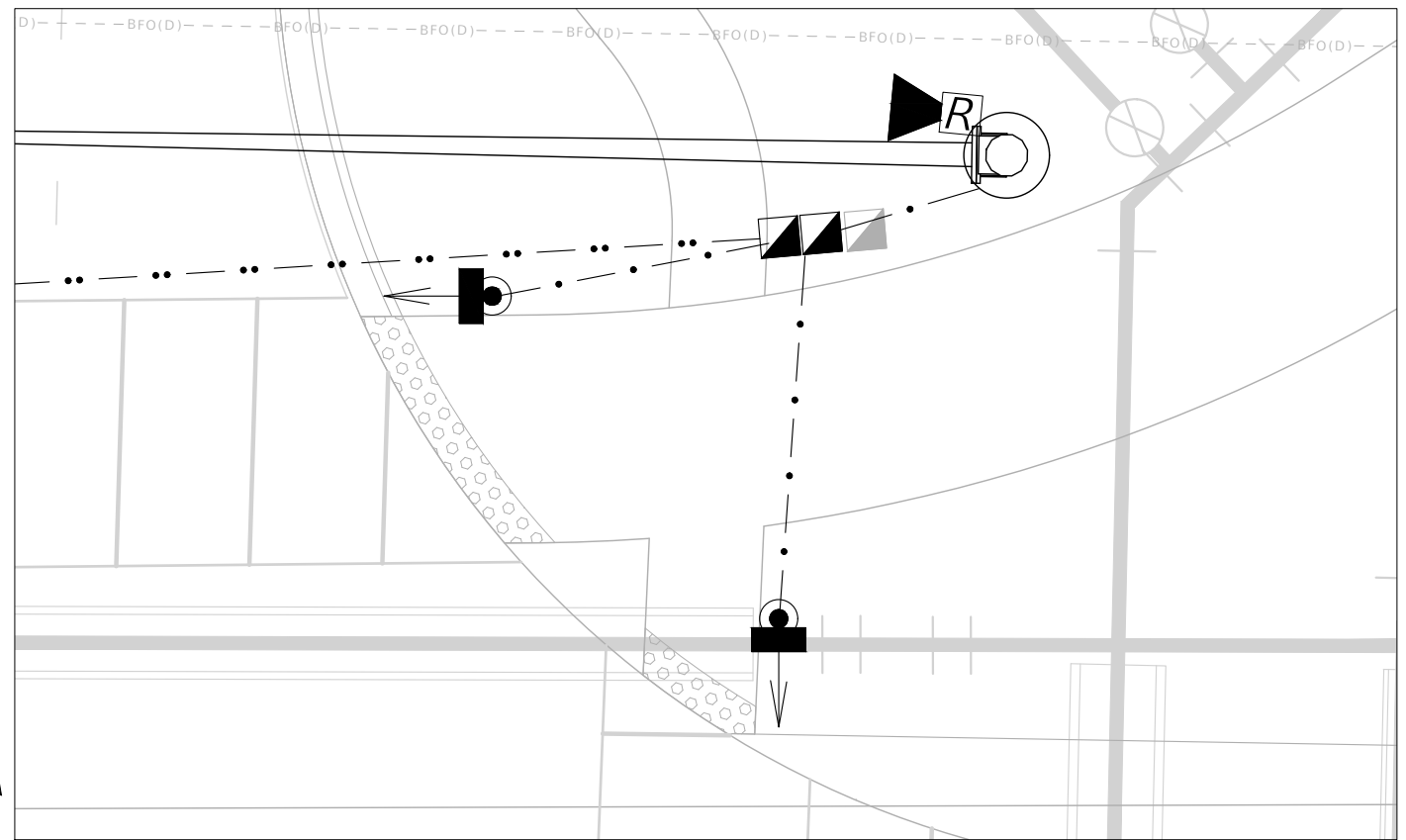
SIGNALIZATION PLAN (8)

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

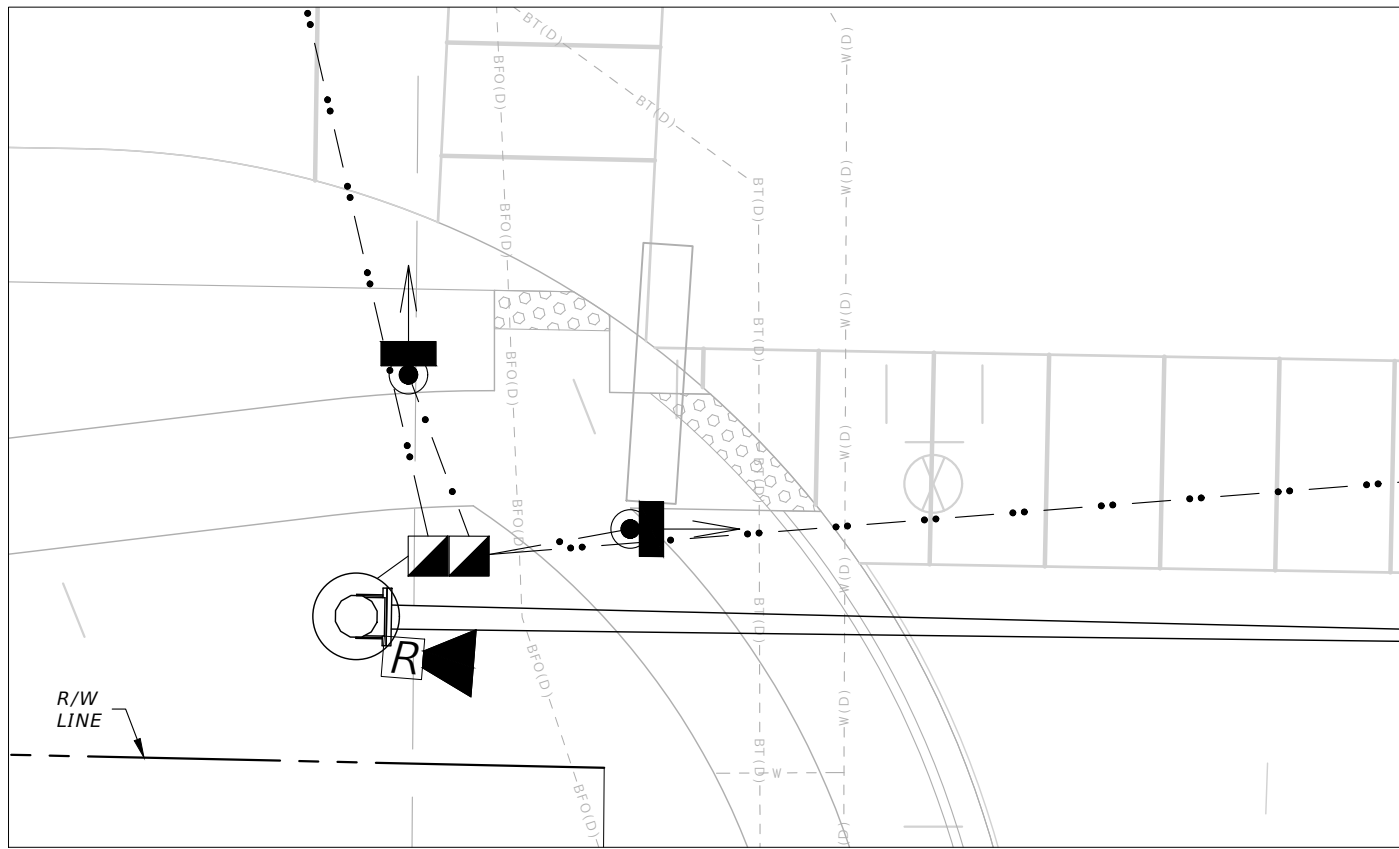


1" = 10'
N
GATEWAY BOULEVARD

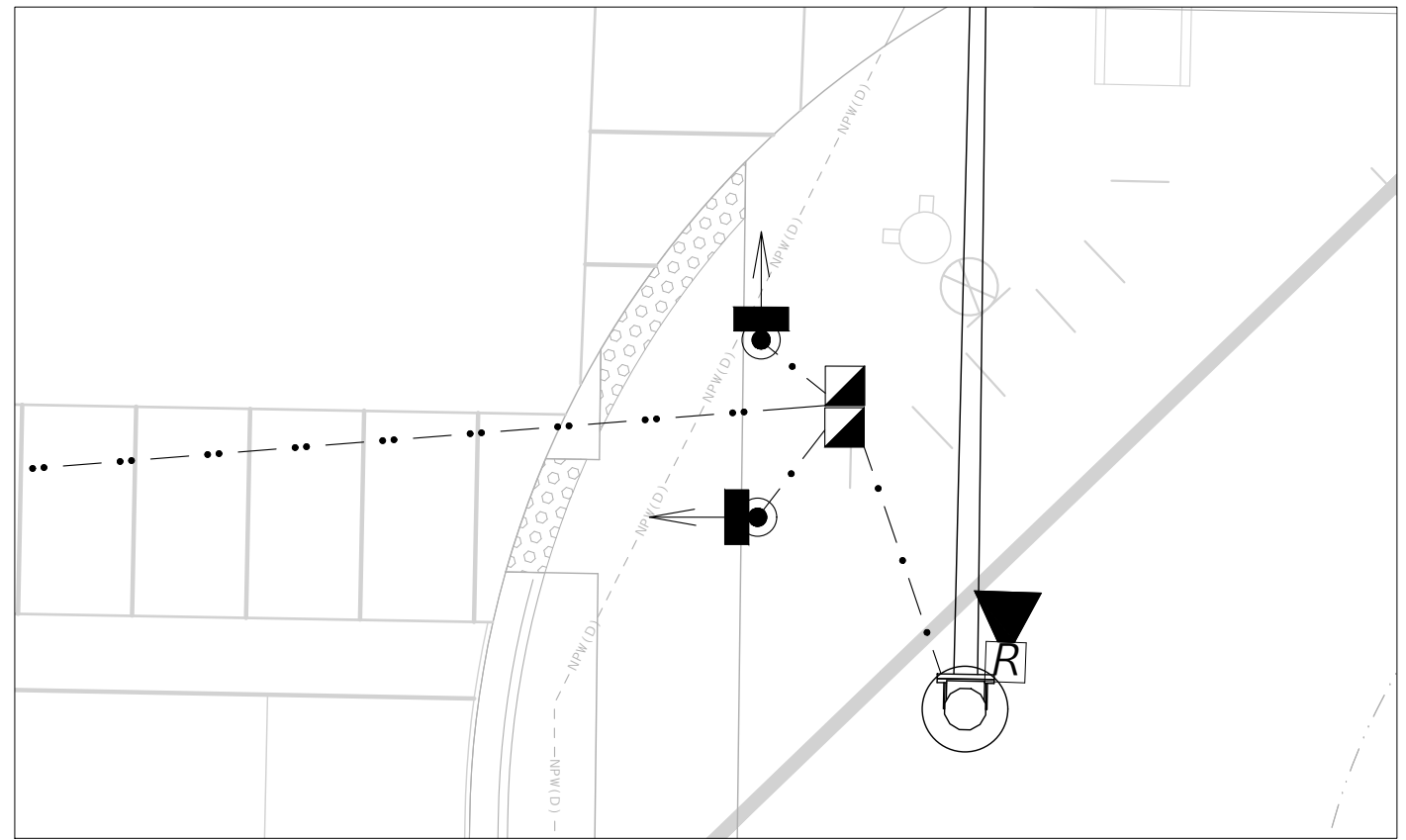
MOCCASIN WALLOW RD



MOCCASIN WALLOW RD



49TH AVE EAST



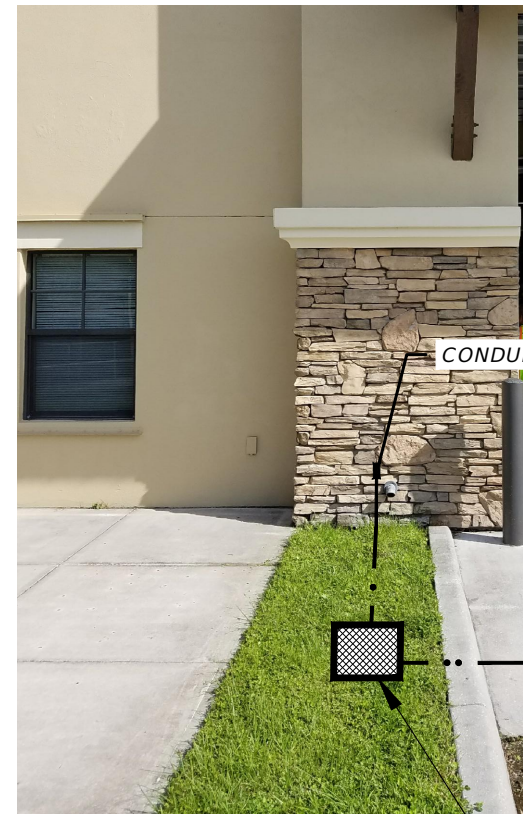
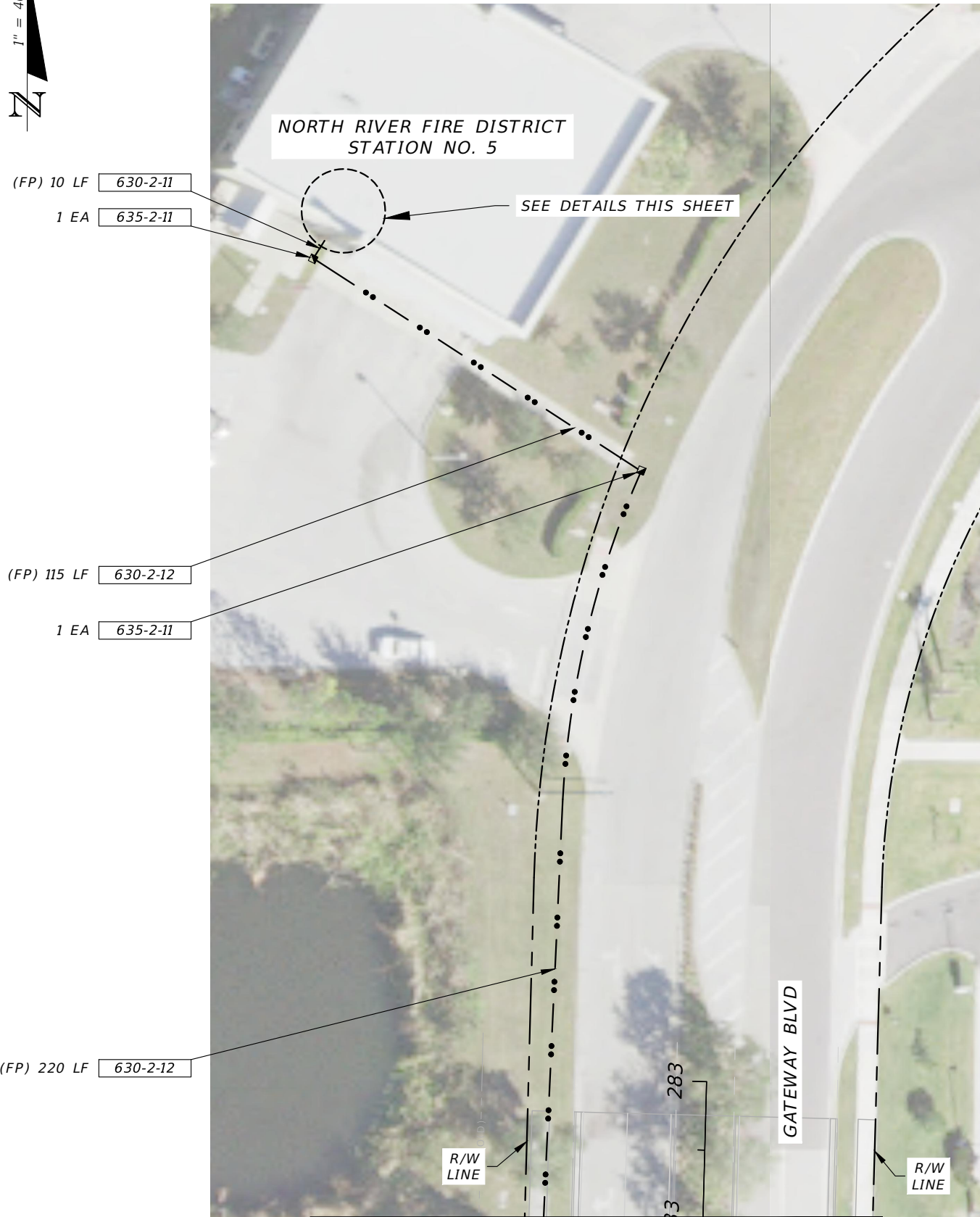
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
CARDNO
3905 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA 33578
CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

SIGNALIZATION PLAN (9)
T-18

SHEET NO.
T-18



CONTACT INFORMATION

NORTH RIVER FIRE DISTRICT
 STATION NO. 5
 MICHAEL RAMPINO - FIRE CHIEF

 OFFICE
 1225 14TH AVE WEST
 PALMETTO, FL 34221
 941-721-6700
 WWW.NRFD.ORG

NOTES

- COORDINATE AND SCHEDULE ALL FIRE STATION PREMISES WORK WITH THE FIRE CHIEF INCLUDING BUT NOT LIMITED TO LOCATION OF CONDUIT ENTRANCE INTO BUILDING, ABOVE GROUND CONDUIT, AND PUSH BUTTON.
- USE RIGID ALUMINUM FOR ALL ABOVE GROUND CONDUIT AND FITTINGS. USE MINIMUM SIZE CONDUIT FOR CONDUCTORS USED.
- PREEMPTION CABLE SHALL BE CONTINUOUS FROM CABINET CONNECTION TO PUSH BUTTON WITH NO SPLICES.

PAY ITEMS WITHIN BUILDING

630-2-14	40 LF	CONDUIT ABOVE GROUND
665-1-11	1 EA	PEDESTRIAN DETECTOR, FURNISH AND INSTALL, STANDARD

COST OF PUSH BUTTON SIGN IS INCLUDED WITH PUSH BUTTON.

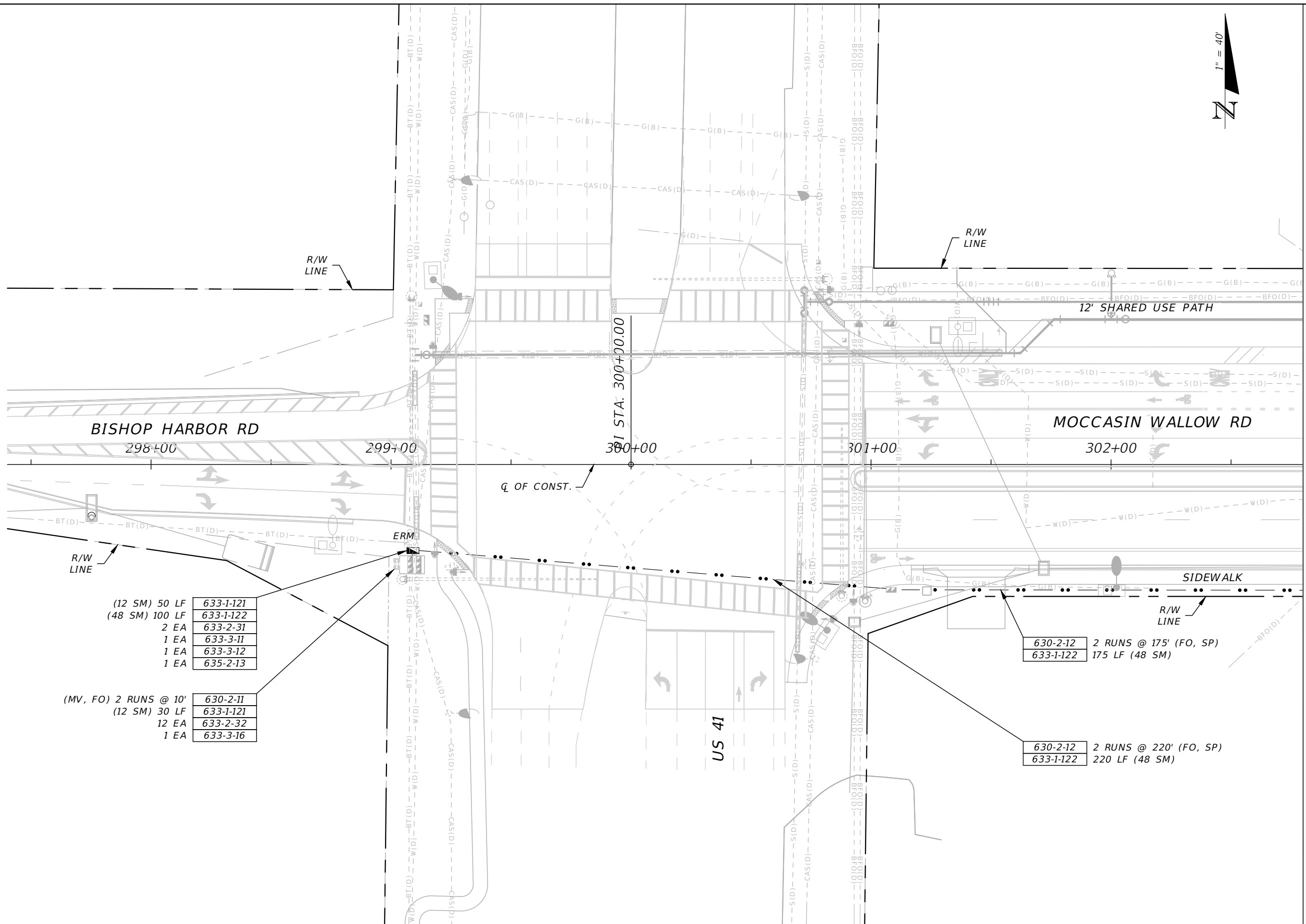
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DAVID J. ALLEN, P.E.
 P.E. LICENSE NUMBER 58540
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 3905 CRESCENT PARK DRIVE
 RIVERVIEW, FLORIDA 33578
 CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

SIGNALIZATION PLAN (10)

SHEET NO.
T-19



(12 SM) 50 LF	633-1-121
(48 SM) 100 LF	633-1-122
2 EA	633-2-31
1 EA	633-3-11
1 EA	633-3-12
1 EA	635-2-13

(MV, FO) 2 RUNS @ 10'	630-2-11
(12 SM) 30 LF	633-1-121
12 EA	633-2-32
1 EA	633-3-16

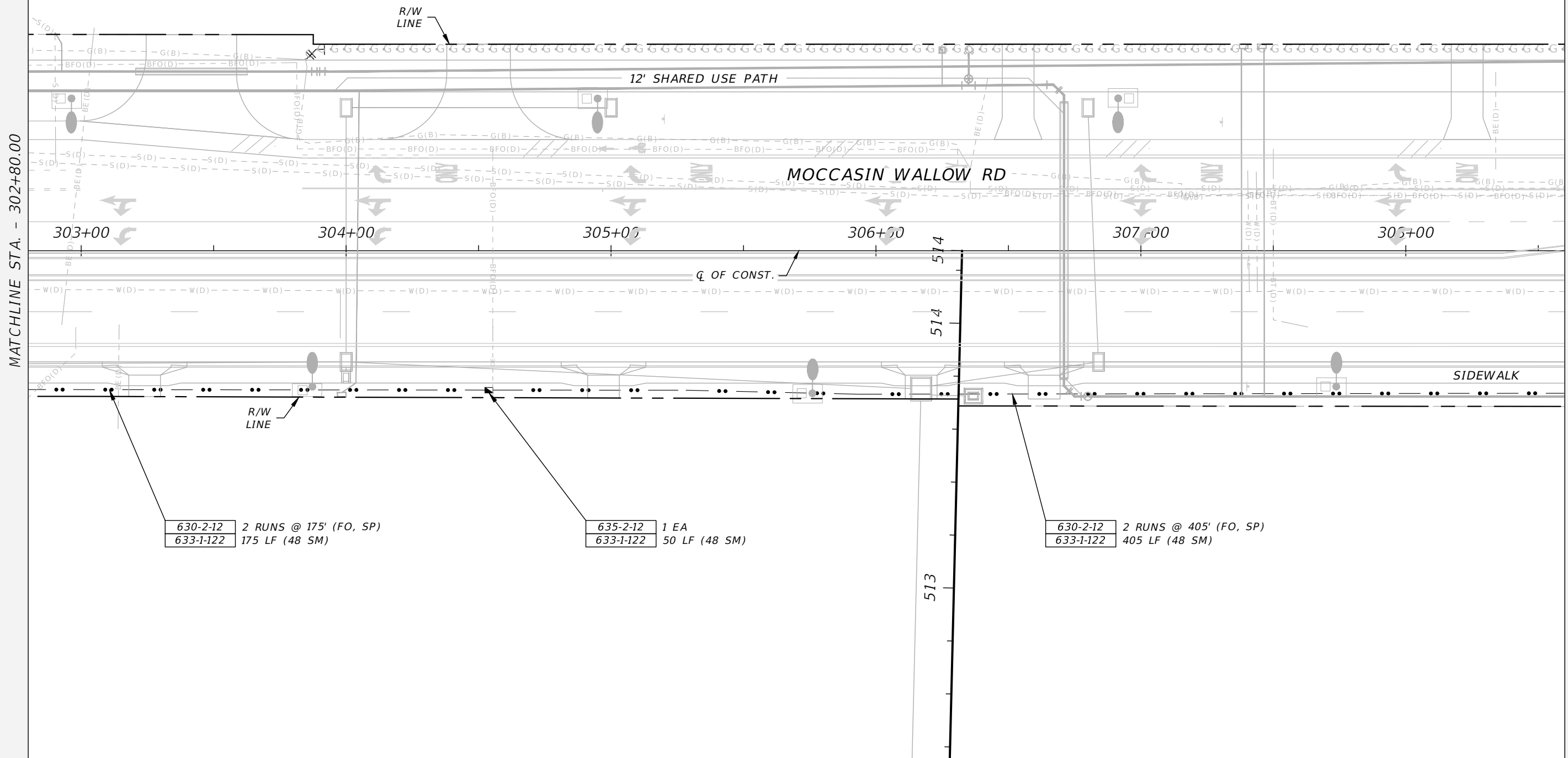
630-2-12	2 RUNS @ 175' (FO, SP)
633-1-122	175 LF (48 SM)

630-2-12	2 RUNS @ 220' (FO, SP)
633-1-122	220 LF (48 SM)

MATCHLINE STA. - 302+80.00

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
----	----	----	----		MOCCASIN WALLOW RD	6092560		T-20



MATCHLINE STA. - 302+80.00

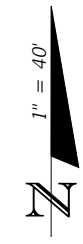
MATCHLINE STA. - 308+60.00

630-2-12	2 RUNS @ 175' (FO, SP)
633-1-122	175 LF (48 SM)

635-2-12	1 EA
633-1-122	50 LF (48 SM)

630-2-12	2 RUNS @ 405' (FO, SP)
633-1-122	405 LF (48 SM)

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		T-21
----	----	----	----		MOCCASIN WALLOW RD	6092560		



MVDS LOCATION NO. 1

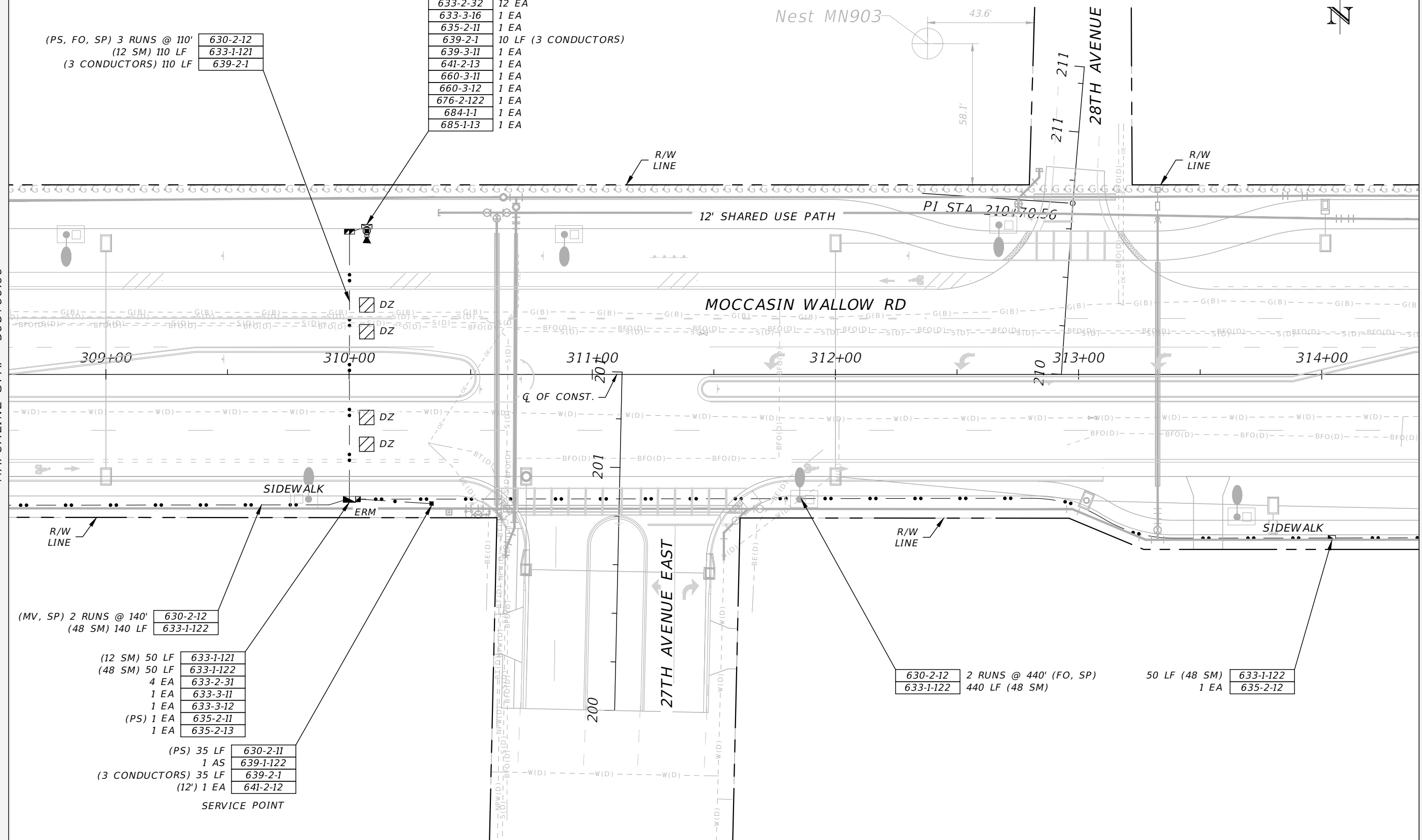
630-2-11	10 LF (PS)
633-1-121	20 LF (12 SM)
633-2-32	12 EA
633-3-16	1 EA
635-2-11	1 EA
639-2-1	10 LF (3 CONDUCTORS)
639-3-11	1 EA
641-2-13	1 EA
660-3-11	1 EA
660-3-12	1 EA
676-2-122	1 EA
684-1-1	1 EA
685-1-13	1 EA

(PS, FO, SP) 3 RUNS @ 110'
(12 SM) 110 LF
(3 CONDUCTORS) 110 LF

630-2-12
633-1-121
639-2-1

MATCHLINE STA. - 308+60.00

MATCHLINE STA. - 314+40.00



(MV, SP) 2 RUNS @ 140'
(48 SM) 140 LF

630-2-12
633-1-122

(12 SM) 50 LF 633-1-121
(48 SM) 50 LF 633-1-122
4 EA 633-2-31
1 EA 633-3-11
1 EA 633-3-12
(PS) 1 EA 635-2-11
1 EA 635-2-13

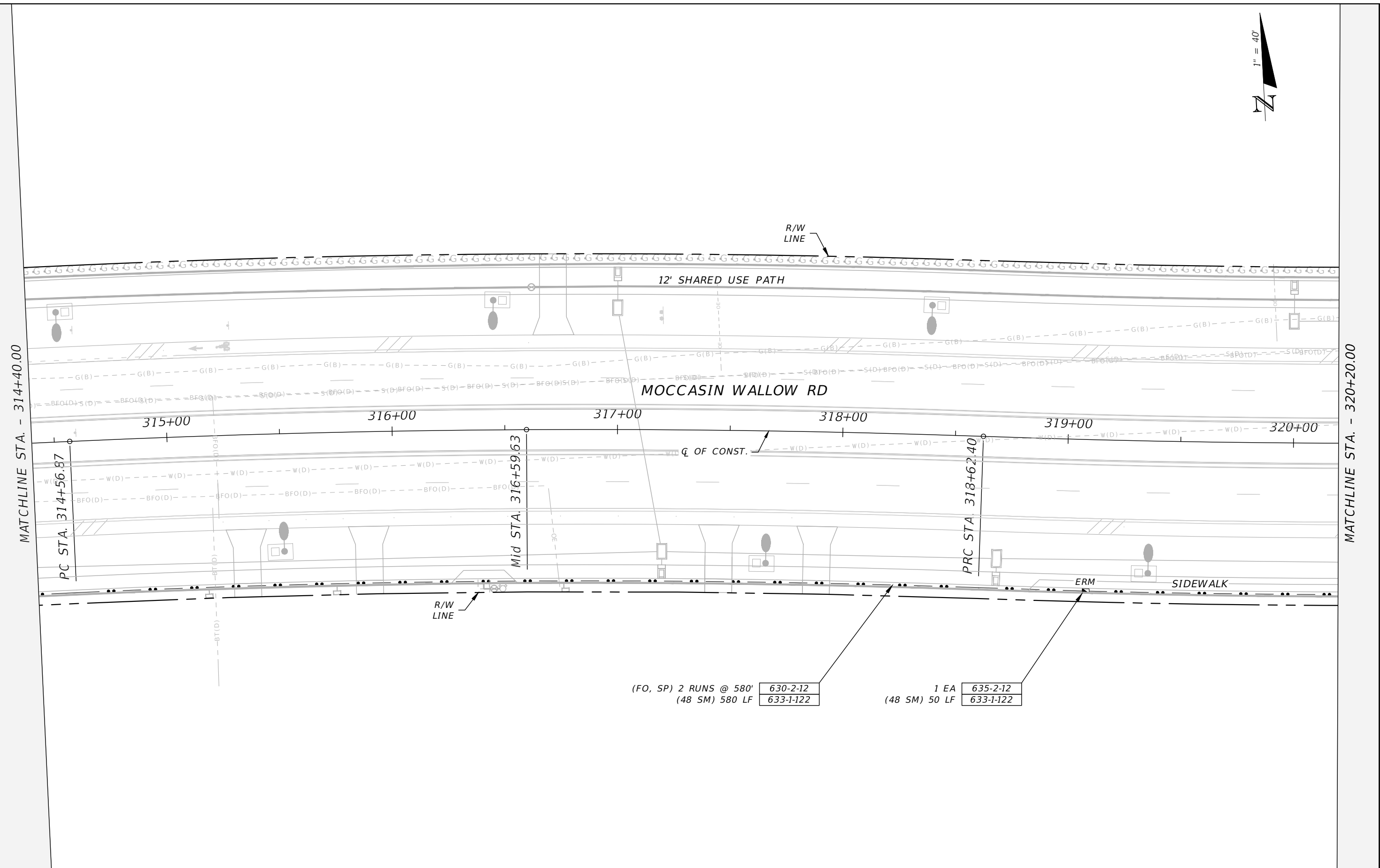
(PS) 35 LF 630-2-11
1 AS 639-1-122
(3 CONDUCTORS) 35 LF 639-2-1
(12') 1 EA 641-2-12

SERVICE POINT

630-2-12	2 RUNS @ 440' (FO, SP)	50 LF (48 SM)	633-1-122
633-1-122	440 LF (48 SM)	1 EA	635-2-12

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
----	----				MOCCASIN WALLOW RD	6092560		

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(FO, SP) 2 RUNS @ 580'
(48 SM) 580 LF

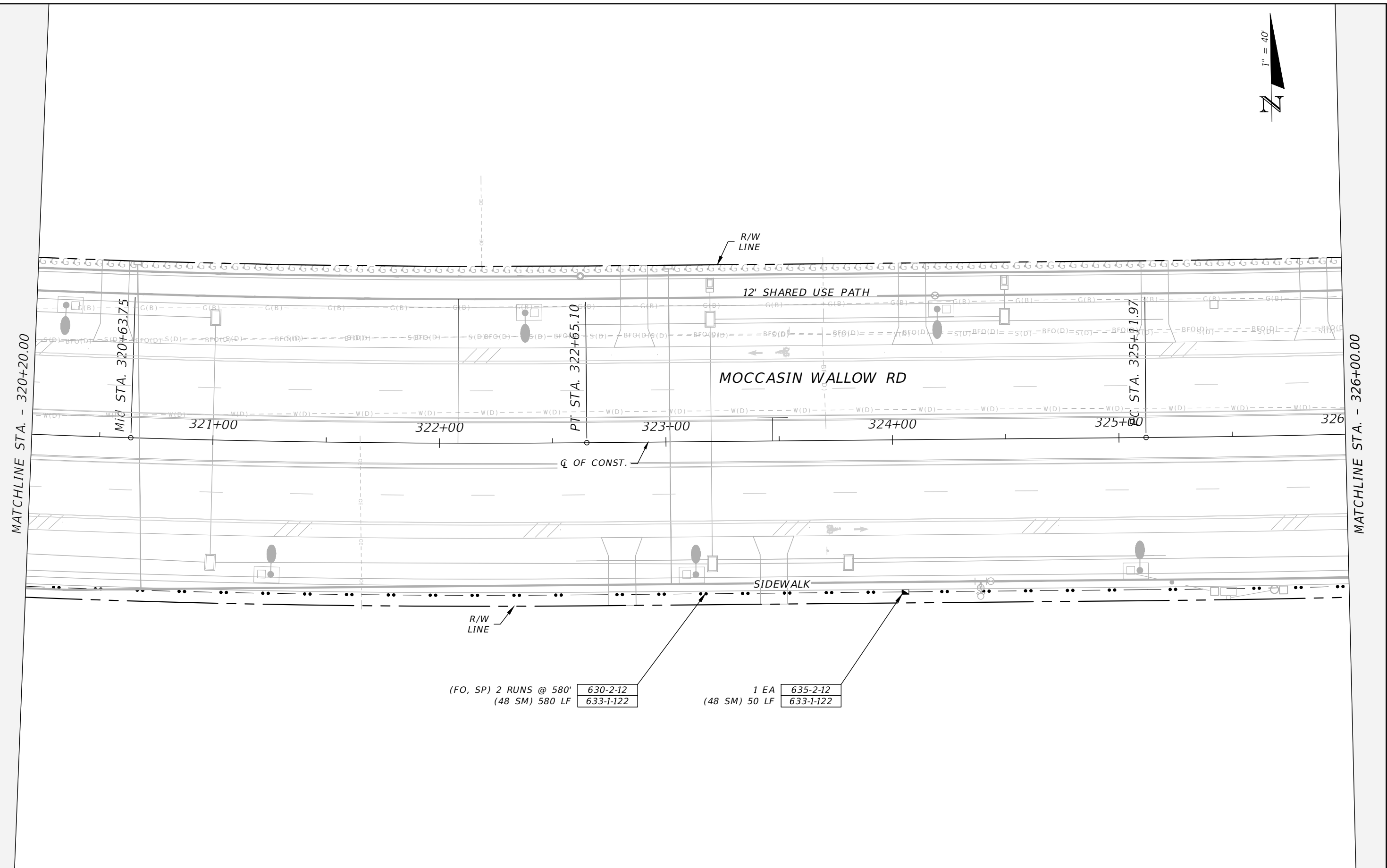
630-2-12
633-1-122

1 EA
(48 SM) 50 LF

635-2-12
633-1-122

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (4)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		T-23
----	----	----	----		MOCCASIN WALLOW RD	6092560		

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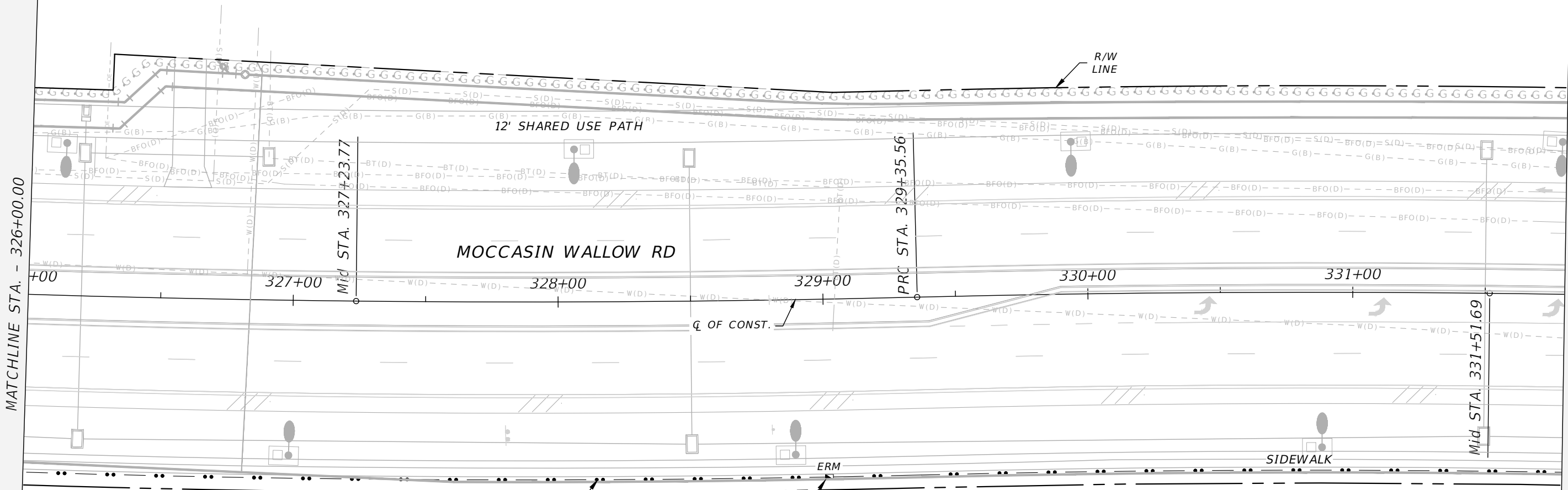
(FO, SP) 2 RUNS @ 580'
(48 SM) 580 LF

630-2-12
633-1-122

1 EA
(48 SM) 50 LF

635-2-12
633-1-122

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (5)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
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MATCHLINE STA. - 326+00.00

MATCHLINE STA. - 331+80.00

(FO, SP) 2 RUNS @ 580'
(48 SM) 580 LF

630-2-12
633-1-122

1 EA
(48 SM) 50 LF

635-2-12
633-1-122

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
CARDNO
3905 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA 33578
CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

INTERCONNECT PLAN (6)

SHEET NO.
T-25

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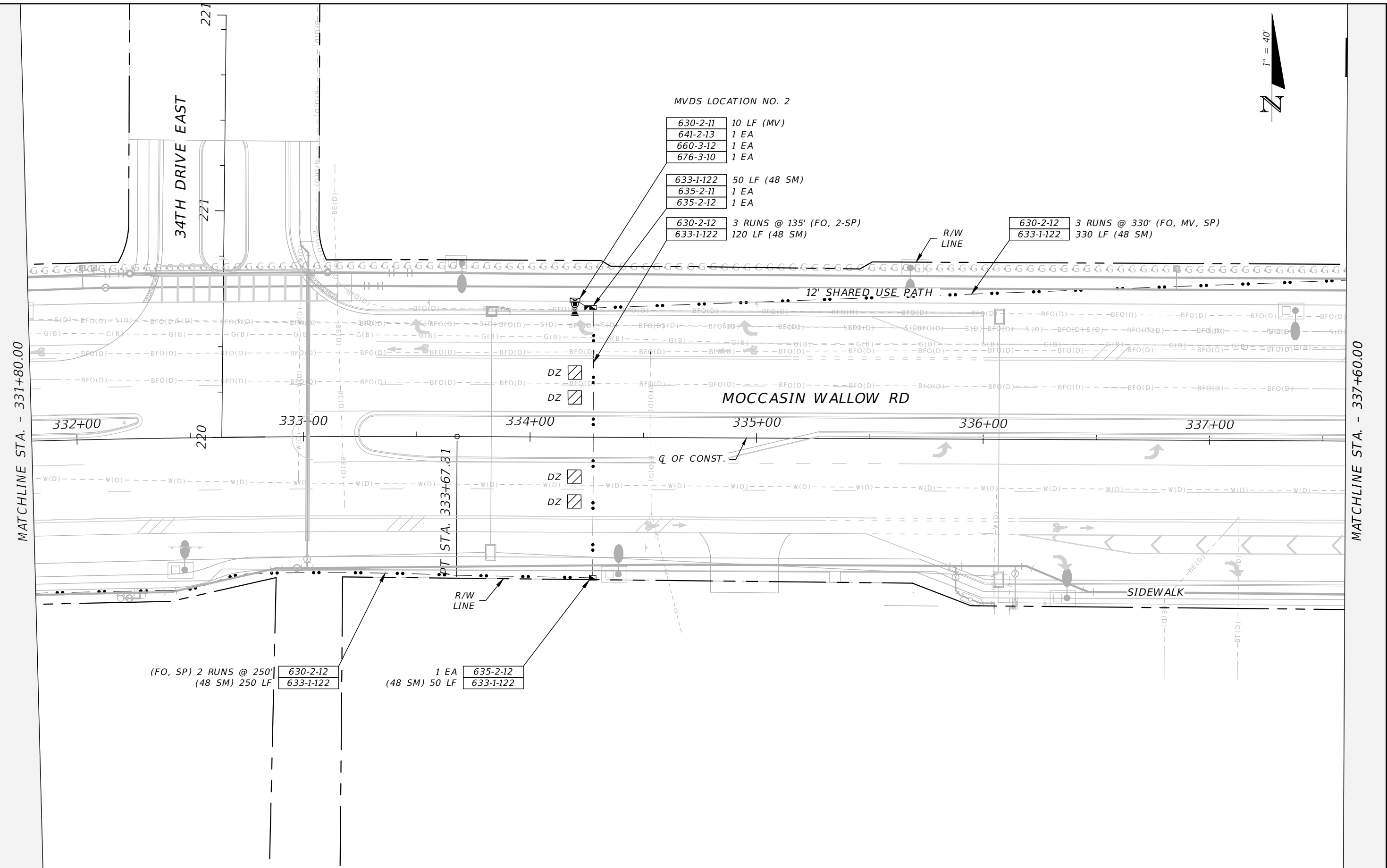
MVDS LOCATION NO. 2

630-2-11	10 LF (MV)
641-2-13	1 EA
660-3-12	1 EA
676-3-10	1 EA

633-1-122	50 LF (48 SM)
635-2-11	1 EA
635-2-12	1 EA

630-2-12	3 RUNS @ 135' (FO, 2-SP)
633-1-122	120 LF (48 SM)

630-2-12	3 RUNS @ 330' (FO, MV, SP)
633-1-122	330 LF (48 SM)



MATCHLINE STA. - 331+80.00

MATCHLINE STA. - 337+60.00

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DAVID J. ALLEN, P.E.
 P.E. LICENSE NUMBER 58540
 CARDNO
 3905 CRESCENT PARK DRIVE
 RIVERVIEW, FLORIDA 33578
 CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

INTERCONNECT PLAN (7)

SHEET NO.
T-26



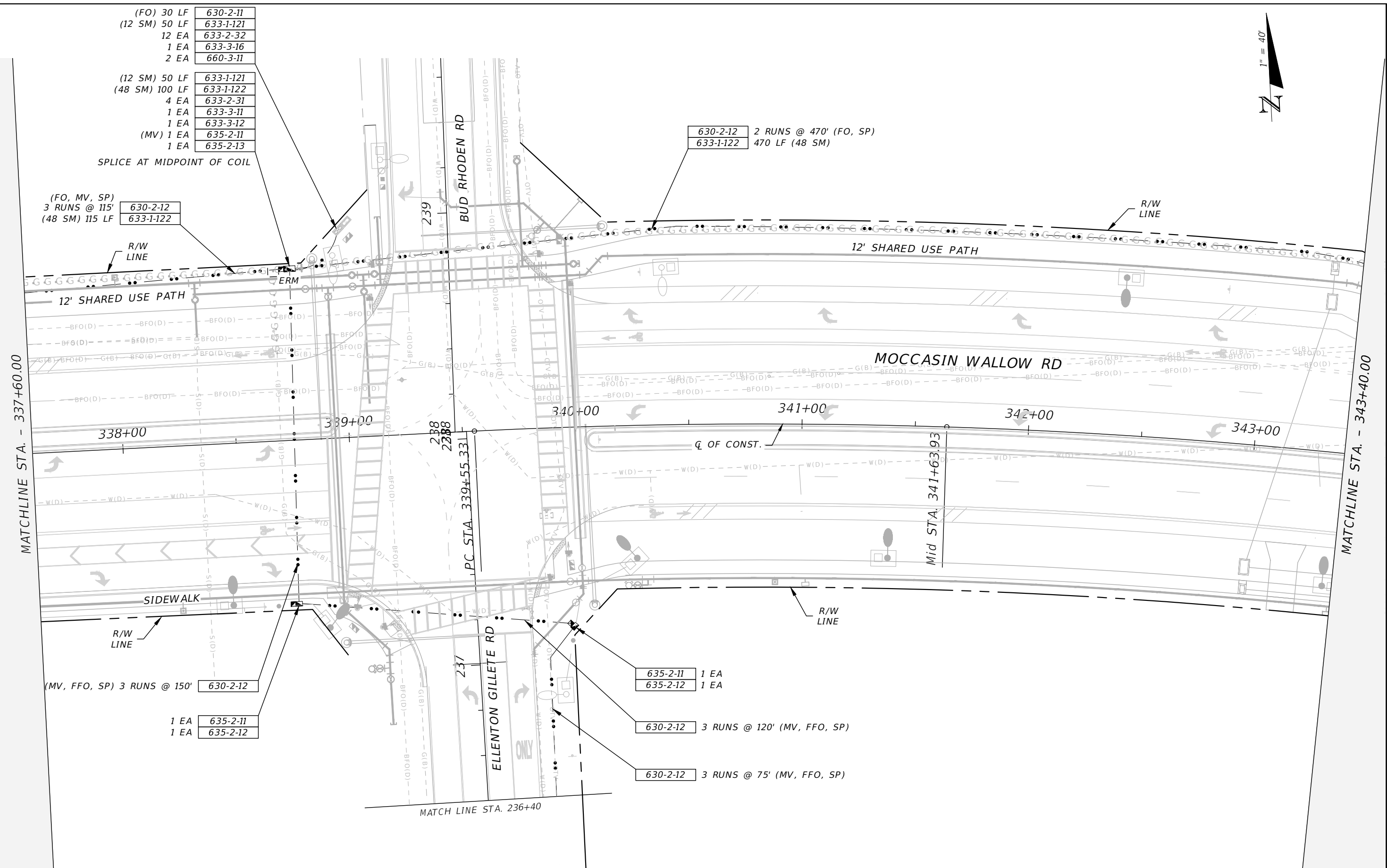
(FO) 30 LF	630-2-11
(12 SM) 50 LF	633-1-121
12 EA	633-2-32
1 EA	633-3-16
2 EA	660-3-11
(12 SM) 50 LF	633-1-121
(48 SM) 100 LF	633-1-122
4 EA	633-2-31
1 EA	633-3-11
1 EA	633-3-12
(MV) 1 EA	635-2-11
1 EA	635-2-13

SPLICE AT MIDPOINT OF COIL

(FO, MV, SP)
3 RUNS @ 115'
(48 SM) 115 LF

630-2-12
633-1-122

630-2-12 2 RUNS @ 470' (FO, SP)
633-1-122 470 LF (48 SM)



(MV, FFO, SP) 3 RUNS @ 150'

630-2-12

1 EA 635-2-11
1 EA 635-2-12

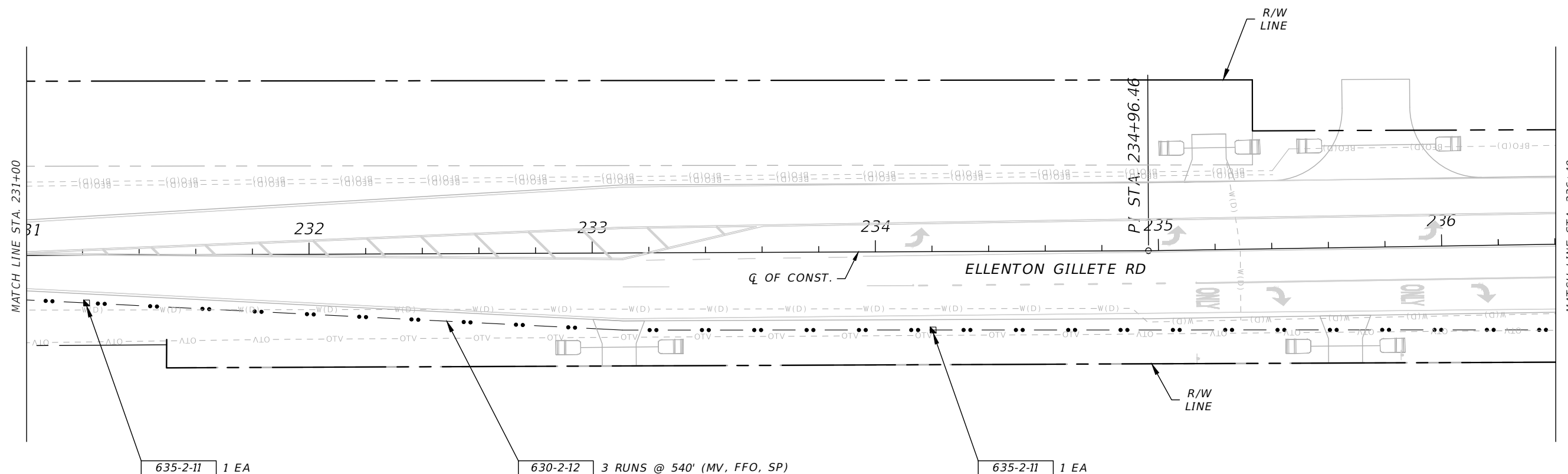
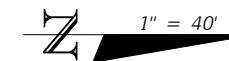
635-2-11 1 EA
635-2-12 1 EA

630-2-12 3 RUNS @ 120' (MV, FFO, SP)

630-2-12 3 RUNS @ 75' (MV, FFO, SP)

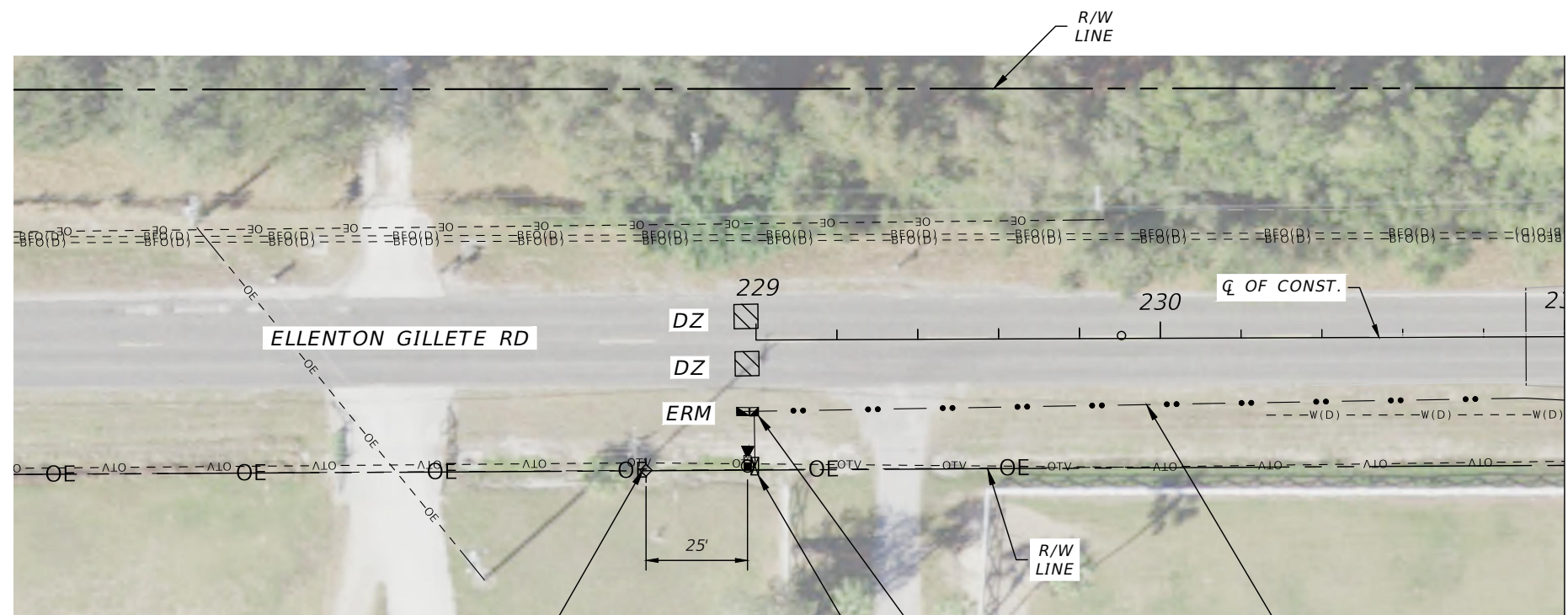
REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (8)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
----	----	----	----		MOCASIN WALLOW RD	6092560		T-27

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		T-28
----	----				MOCCASIN WALLOW RD	6092560		



- 635-2-11 1 EA
 - 635-2-12 1 EA (FUTURE)
 - FO PULL BOX FOR FUTURE CONNECTION TO PROJECT #6084560
 - 630-2-11 15 LF (MV)
 - 641-2-13 1 EA
 - 660-3-11 1 EA
 - 660-3-12 1 EA
 - 676-3-10 1 EA
- MVDS LOCATION NO. 3
- 630-2-12 3 RUNS @ 205' (MV, FFO, SP)

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
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DAVID J. ALLEN, P.E.
 P.E. LICENSE NUMBER 58540
 CARDNO
 3905 CRESCENT PARK DRIVE
 RIVERVIEW, FLORIDA 33578
 CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

INTERCONNECT PLAN (10)

T-29

SHEET NO.
T-29

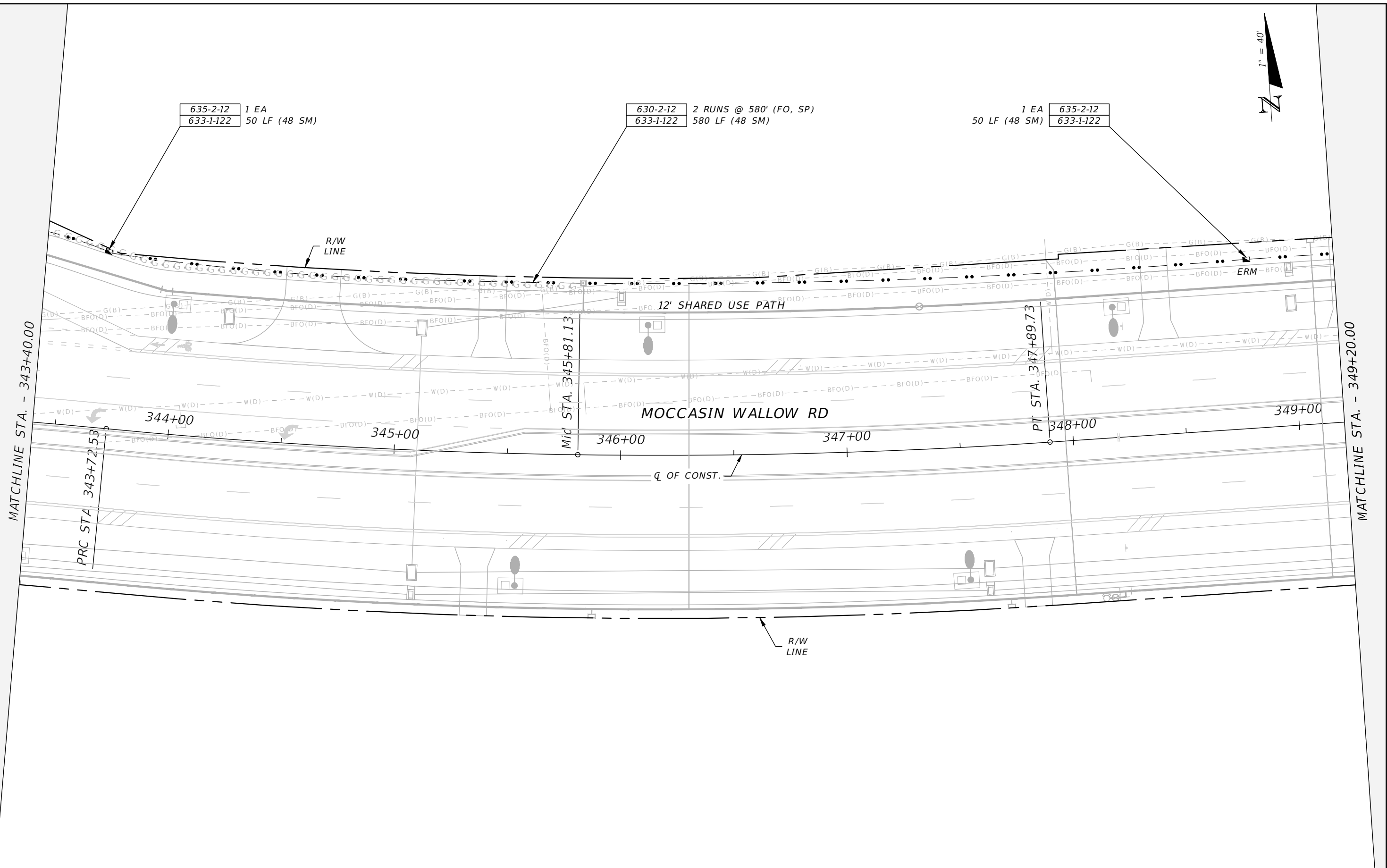
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



635-2-12 1 EA
633-1-122 50 LF (48 SM)

630-2-12 2 RUNS @ 580' (FO, SP)
633-1-122 580 LF (48 SM)

1 EA 635-2-12
50 LF (48 SM) 633-1-122



MATCHLINE STA. - 343+40.00

MATCHLINE STA. - 349+20.00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
CARDNO
3905 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA 33578
CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

INTERCONNECT PLAN (11)

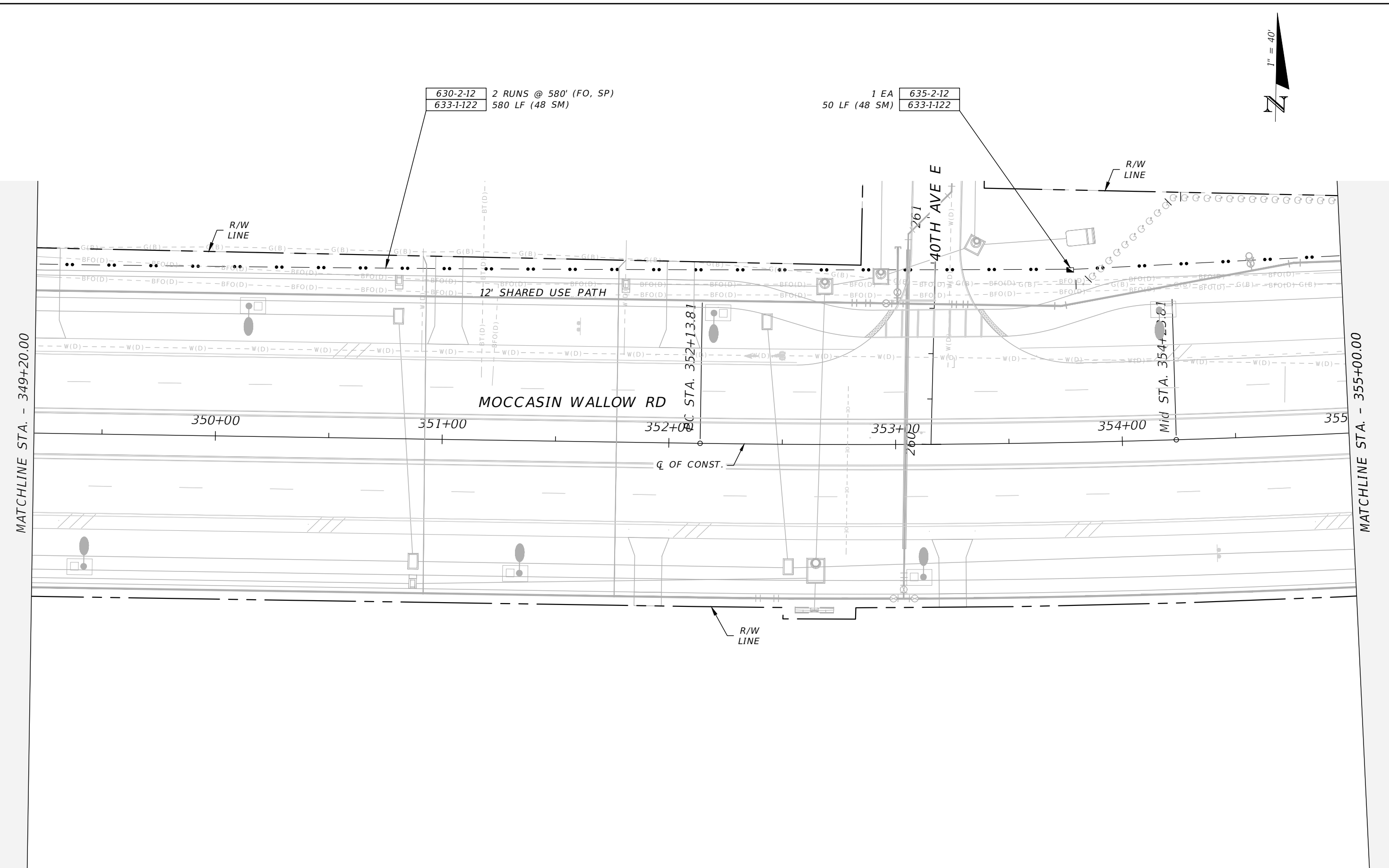
SHEET NO.
T-30

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



630-2-12 2 RUNS @ 580' (FO, SP)
633-1-122 580 LF (48 SM)

1 EA 635-2-12
50 LF (48 SM) 633-1-122



MATCHLINE STA. - 349+20.00

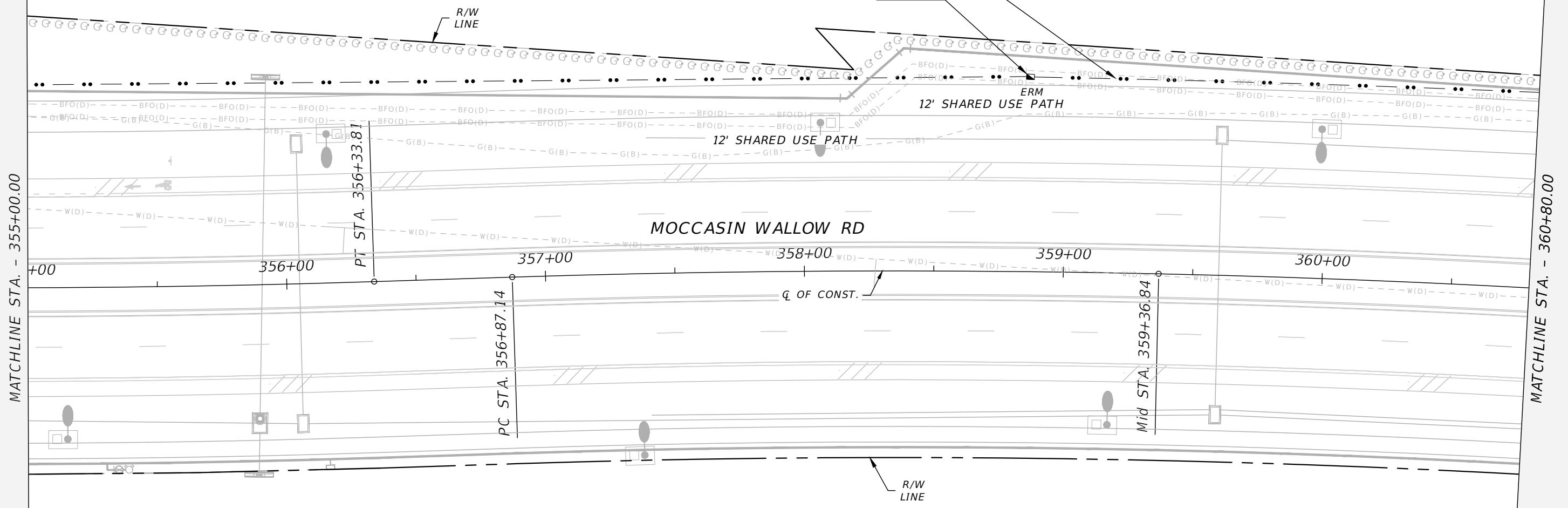
MATCHLINE STA. - 355+00.00

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (12)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
---	---	---	---			MOCCASIN WALLOW RD		6092560



2 RUNS @ 580' (FO, SP) 630-2-12
 580 LF (48 SM) 633-1-122

1 EA 635-2-12
 50 LF (48 SM) 633-1-122



MATCHLINE STA. - 355+00.00

MATCHLINE STA. - 360+80.00

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DAVID J. ALLEN, P.E.
 P.E. LICENSE NUMBER 58540
 CARDNO
 3905 CRESCENT PARK DRIVE
 RIVERVIEW, FLORIDA 33578
 CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

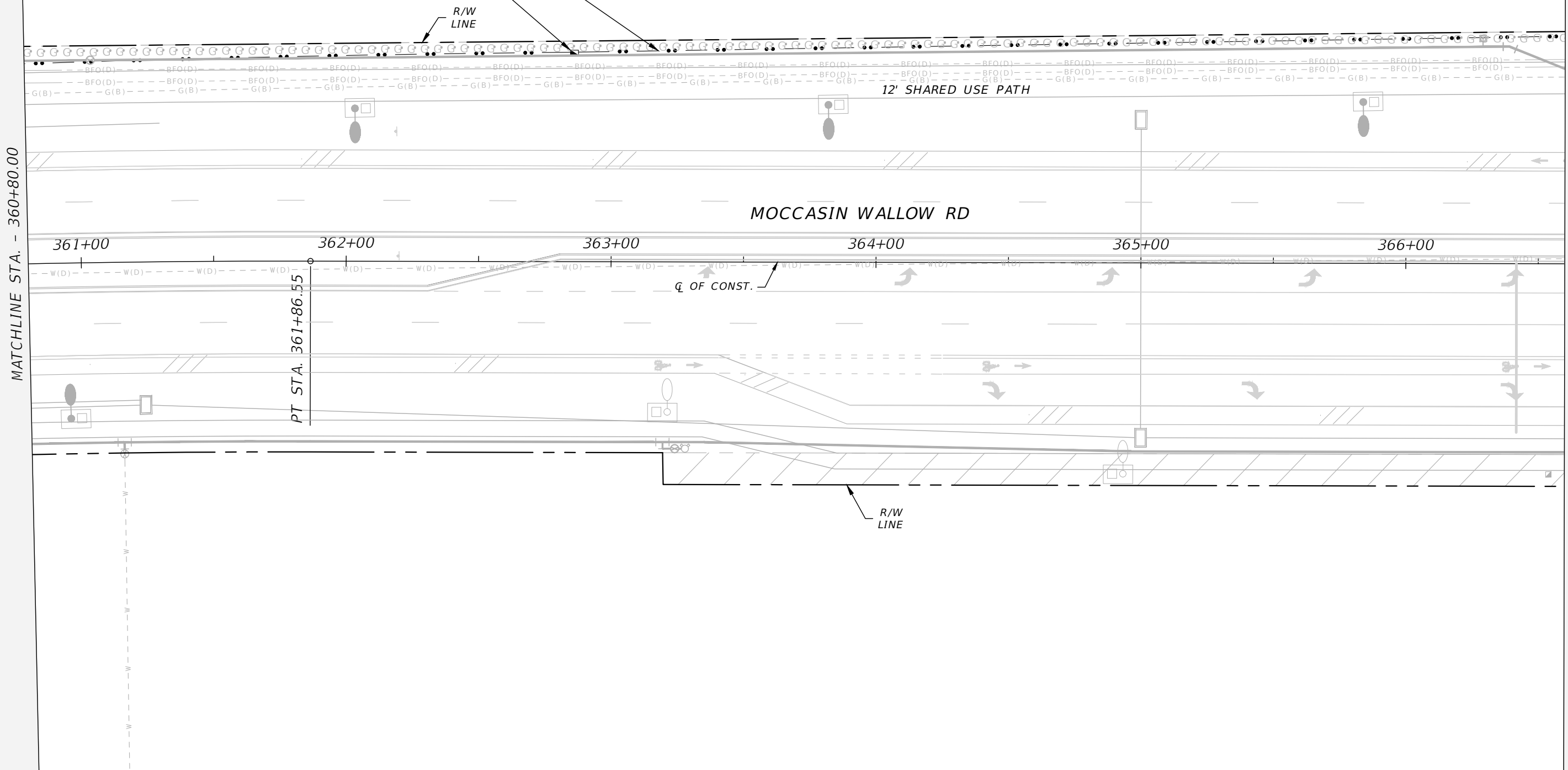
INTERCONNECT PLAN (13)

SHEET NO.
T-32



2 RUNS @ 580' (FO, SP) 630-2-12
 580 LF (48 SM) 633-1-122

1 EA 635-2-12
 50 LF (48 SM) 633-1-122



MATCHLINE STA. - 360+80.00

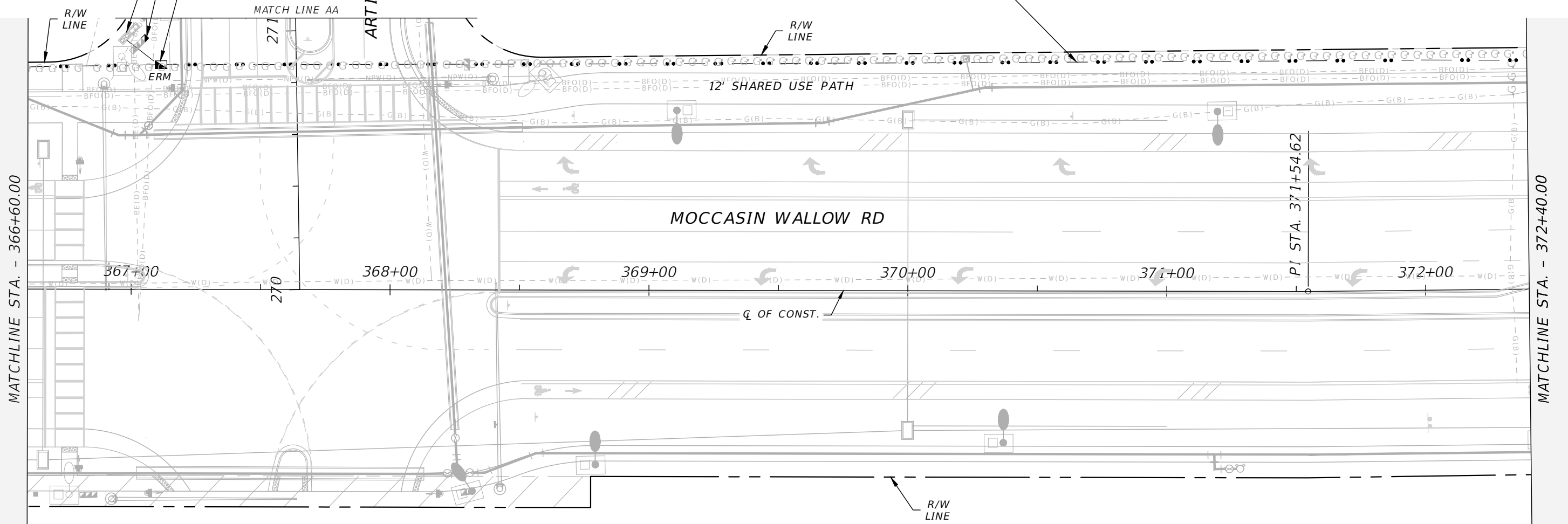
MATCHLINE STA. - 366+60.00

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (14)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
---	---	---	---		MOCASIN WALLOW RD	6092560		T-33

630-2-11	20 LF (FO)
633-1-121	40 LF (12 SM)
633-2-32	12 EA
633-3-16	1 EA
660-3-11	1 EA
635-2-11	1 EA (MV)
633-1-121	50 LF (12 SM)
633-1-122	100 LF (48 SM)
633-2-31	4 EA
633-3-11	1 EA
633-3-12	1 EA
635-2-13	1 EA

(FO, SP) 2 RUNS @ 580'
(48 SM) 580 LF

630-2-12
633-1-122

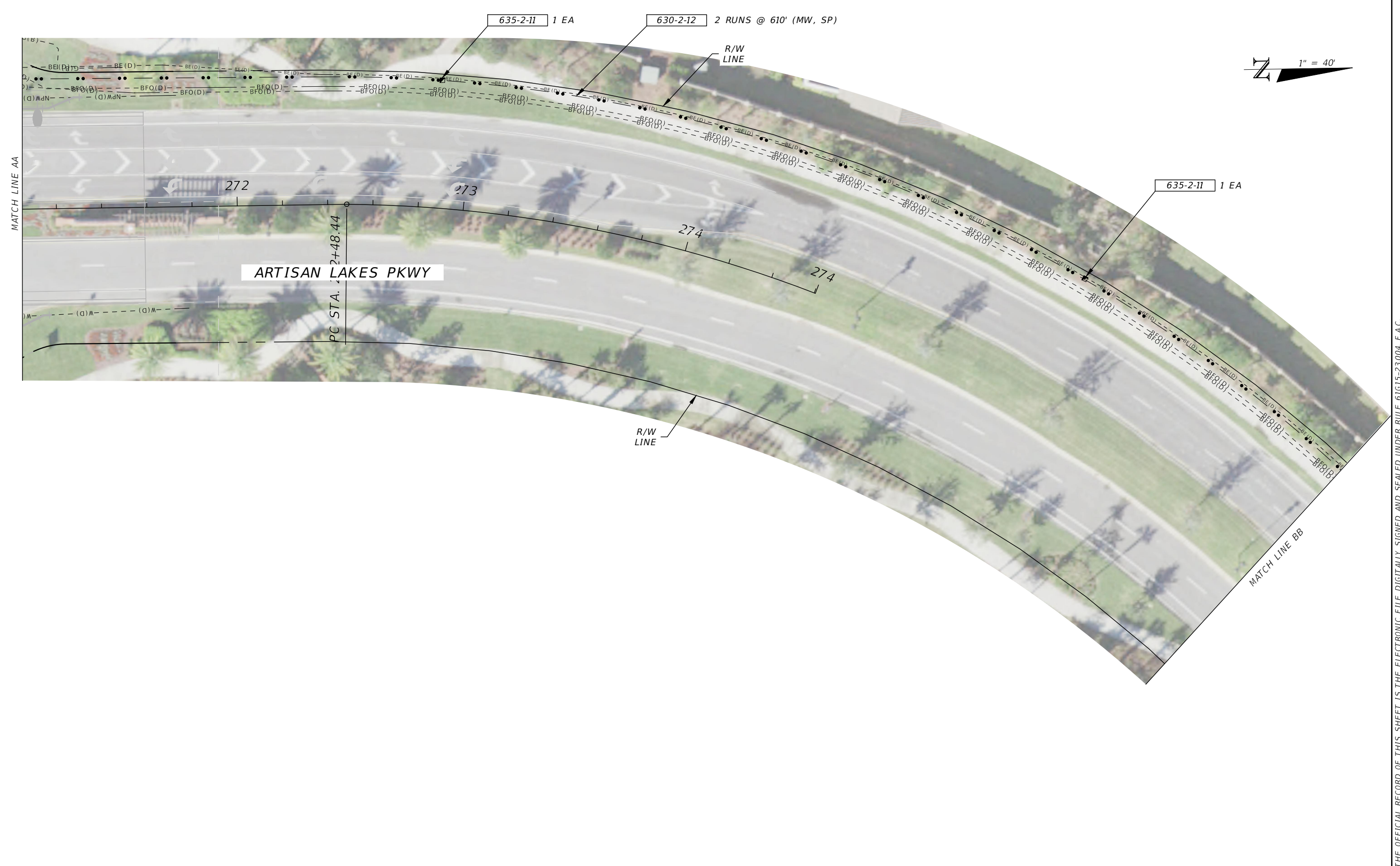


MATCHLINE STA. - 366+60.00

MATCHLINE STA. - 372+40.00

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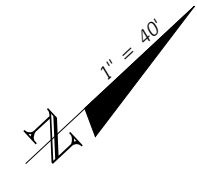
REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (15)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
---	---	---	---		MOCCASIN WALLOW RD	6092560		



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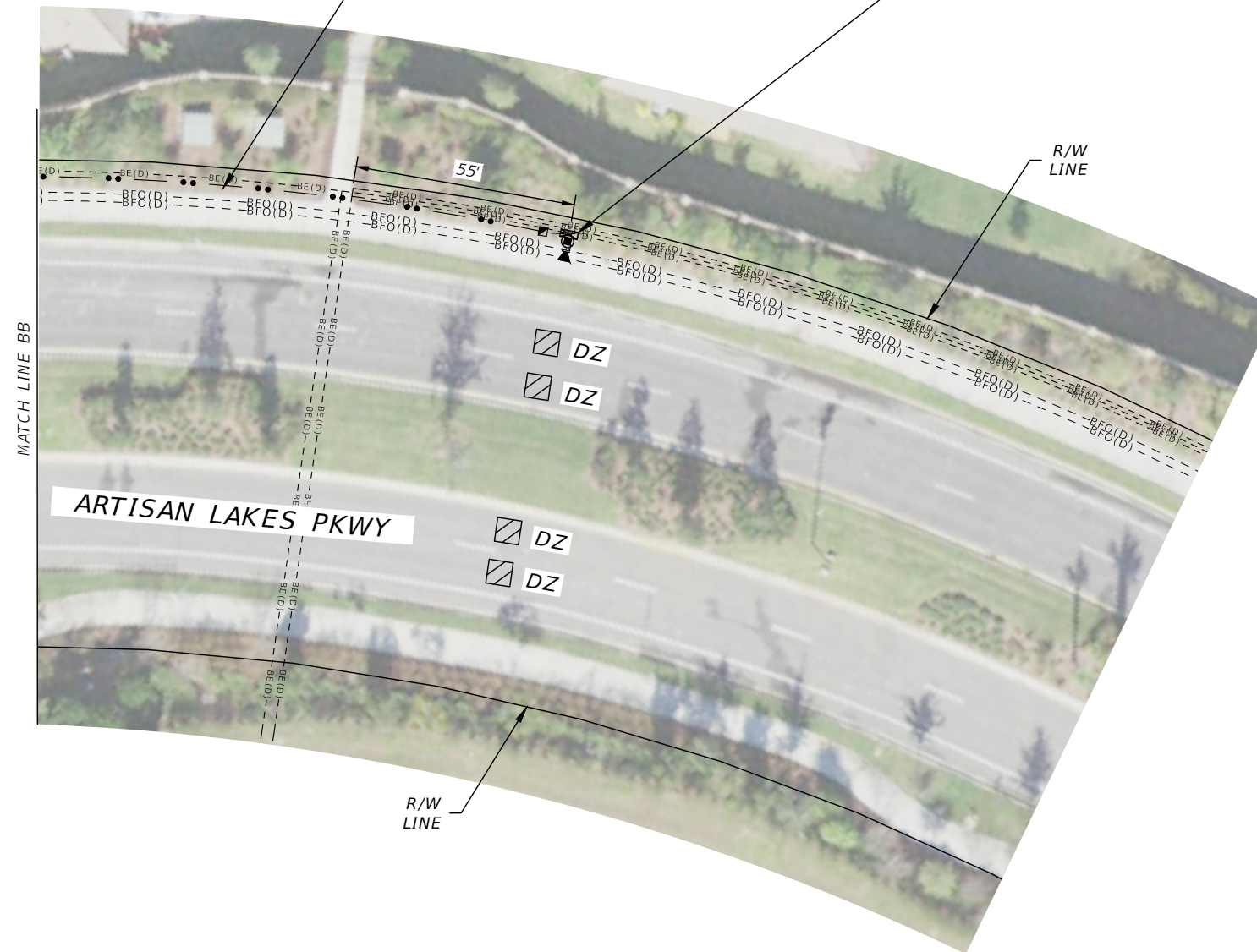
REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (16)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		T-35
----	----	----	----			MOCCASIN WALLOW RD		6092560

MVDS LOCATION NO. 4



630-2-11	10 LF (MV)
635-2-11	1 EA
641-2-13	1 EA
660-3-11	1 EA
660-3-12	1 EA
676-3-10	1 EA

630-2-12 2 RUNS @ 125' (MW, SP)



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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		T-36
----	----				MOCASIN WALLOW RD	6092560		



635-2-12 1 EA
633-1-122 50 LF (48 SM)

630-2-12 2 RUNS @ 580' (FO, SP)
633-1-122 580 LF (48 SM)

R/W
LINE

12' SHARED USE PATH

MOCCASIN WALLOW RD

PI STA. 376+61.21

Q OF CONST.

R/W
LINE

MATCHLINE STA. - 372+40.00

MATCHLINE STA. - 378+20.00

373+00

374+00

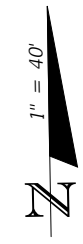
375+00

376+00

377+00

378+00

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (18)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
----	----	----	----			MOCCASIN WALLOW RD		6092560



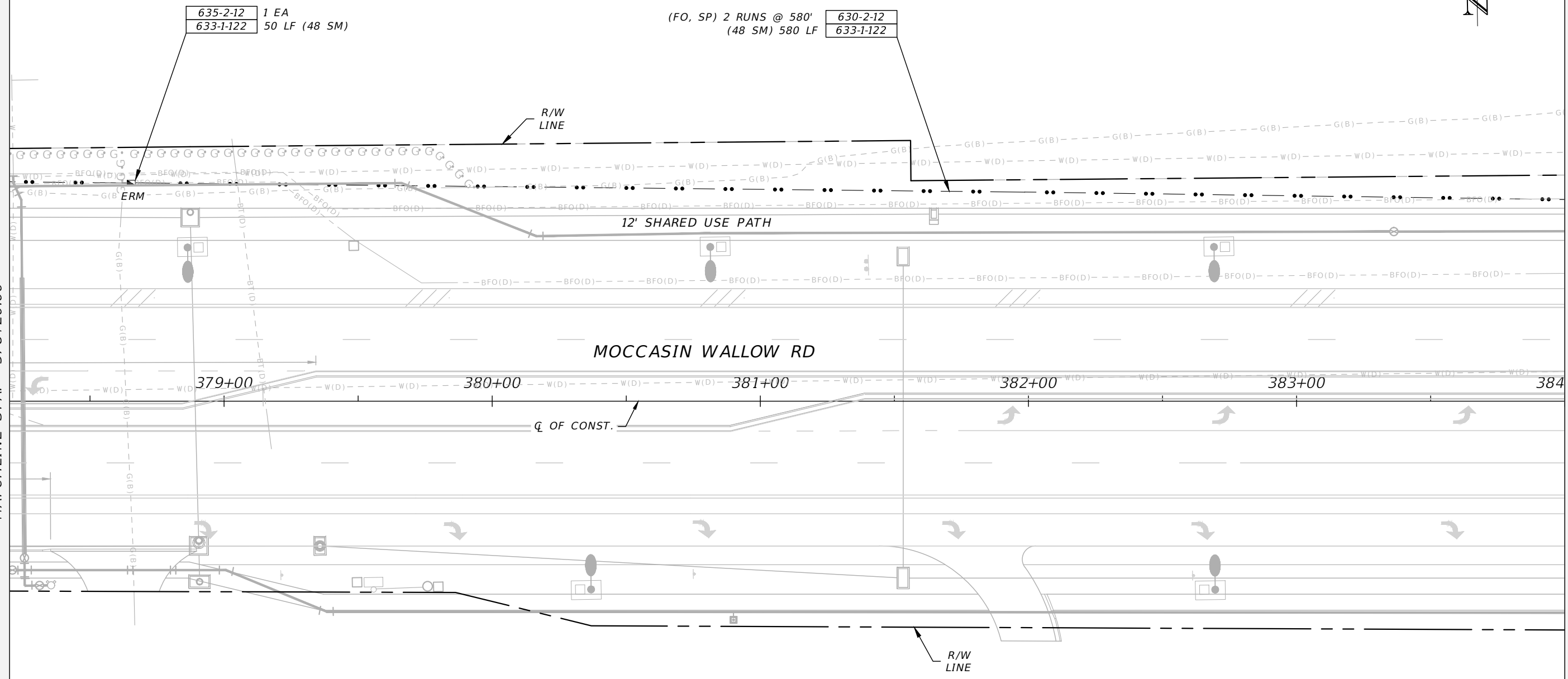
635-2-12 1 EA
633-1-122 50 LF (48 SM)

(FO, SP) 2 RUNS @ 580'
(48 SM) 580 LF

630-2-12
633-1-122

MATCHLINE STA. - 378+20.00

MATCHLINE STA. - 384+00.00



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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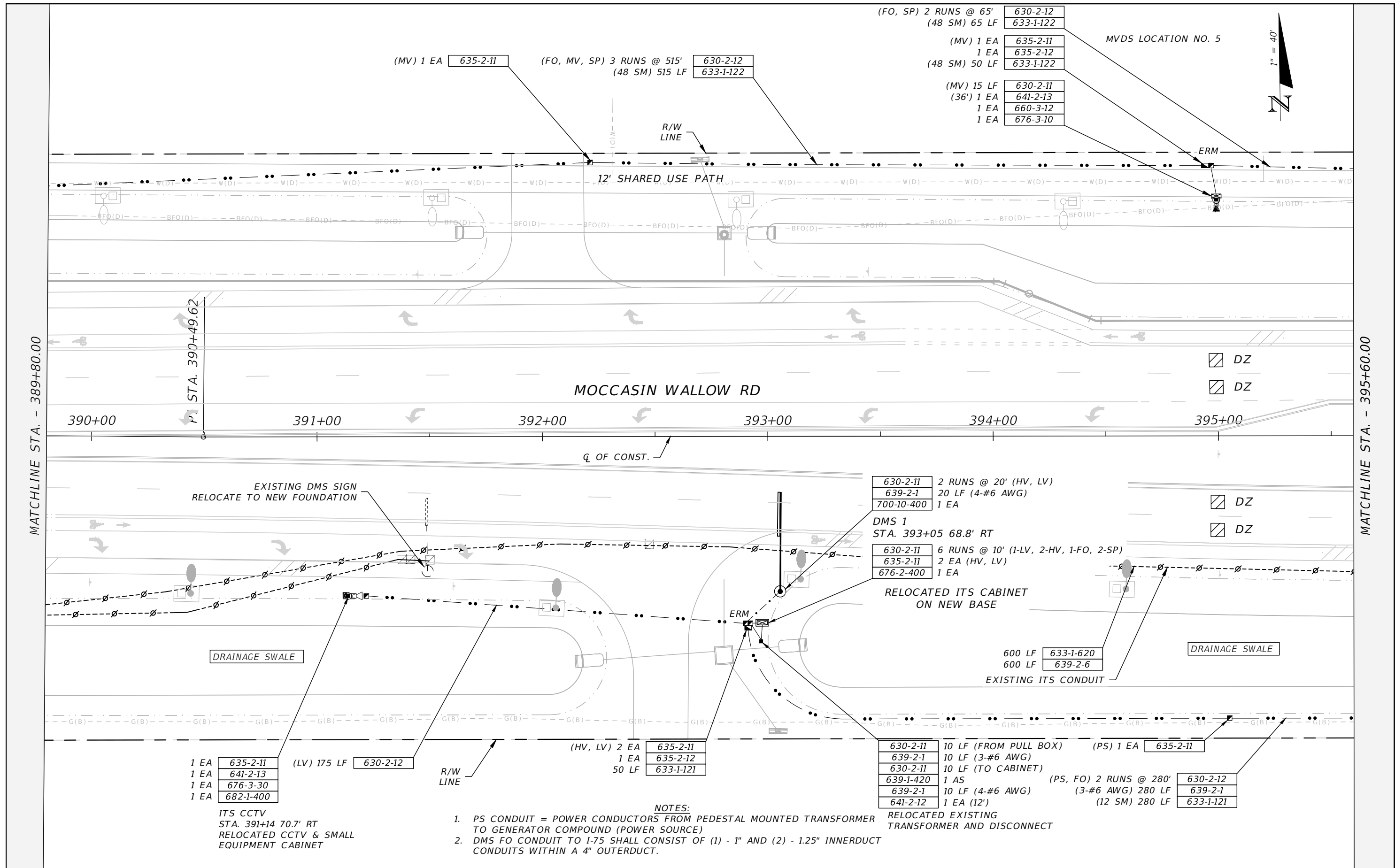
DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
CARDNO
3905 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA 33578
CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

INTERCONNECT PLAN (19)
T-38

SHEET NO.
T-38

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



MATCHLINE STA. - 389+80.00

MATCHLINE STA. - 395+60.00

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REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (21)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
----	----	----	----		MOCCASIN WALLOW RD	6092560		T-40



(FO, SP) 2 RUNS @ 580'
(48 SM) 580 LF

630-2-12
633-1-122

1 EA
(48 SM) 50 LF

635-2-12
633-1-122

R/W LINE

12' SHARED USE PATH

ERM

MOCCASIN WALLOW RD

396+00

397+00

398+00

399+00

400+00

401+00

CL OF CONST.

DRAINAGE SWALE

580 LF 633-1-620
580 LF 639-2-6

EXISTING SIGN

EXISTING ITS CONDUIT

R/W LINE

(PS) 1 EA 635-2-11
1 EA 635-2-12
(12 SM) 50 LF 633-1-121

(PS, FO) 2 RUNS @ 580'
(3-#6 AWG) 580 LF 630-2-12
(12 SM) 580 LF 639-2-1
(12 SM) 580 LF 633-1-121

(PS) 1 EA 635-2-11

NOTES:

1. PS CONDUIT = POWER CONDUCTORS FROM PEDESTAL MOUNTED TRANSFORMER TO GENERATOR COMPOUND (POWER SOURCE)
2. DMS FO CONDUIT TO I-75 SHALL CONSIST OF (1) - 1" AND (2) - 1.25" INNERDUCT CONDUITS WITHIN A 4" OUTERDUCT.

MATCHLINE STA. - 395+60.00

MATCHLINE STA. - 401+40.00

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REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (22)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
----	----	----	----		MOCCASIN WALLOW RD	6092560		T-41



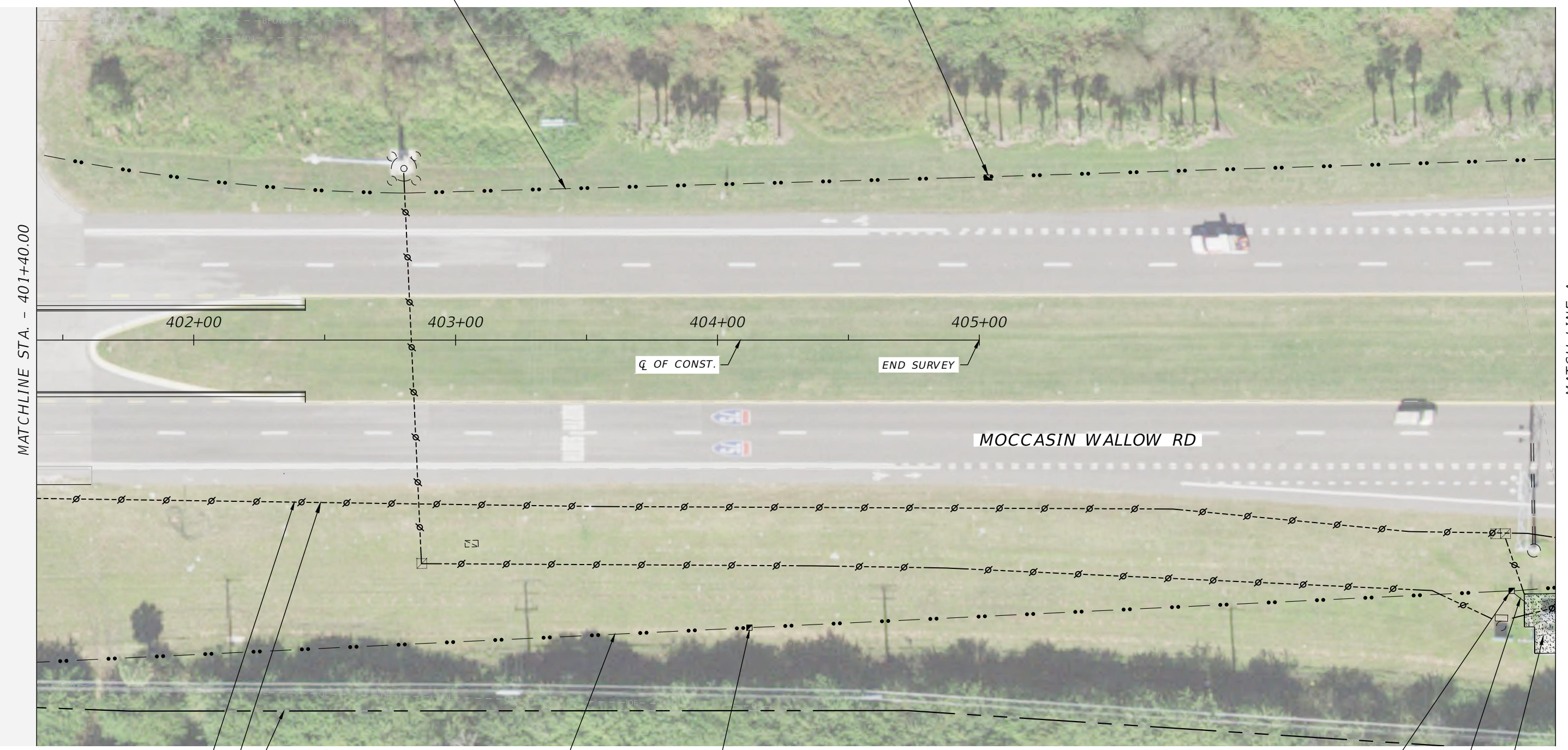
MAINTAIN 10' MIN. FROM E/P

(FO, SP) 2 RUNS @ 580' (48 SM) 580 LF

630-2-12
633-1-122

1 EA (48 SM) 50 LF

635-2-12
633-1-122



580 LF 633-1-620
580 LF 639-2-6
EXISTING ITS CONDUIT

(PS, FO) 2 RUNS @ 580' (3-#6 AWG) 565 LF (12 SM) 580 LF

630-2-12
639-2-1
633-1-121

(PS) 1 EA 635-2-11

(PS) 1 EA 635-2-11
(PS) 20 LF 630-2-12 (3-#6 AWG) 20 LF 639-2-1
BACKUP GENERATOR COMPOUND
DMS POWER SOURCE
CONNECT TO 480V STEP UP TRANSFORMER

- NOTES:**
1. PS CONDUIT = POWER CONDUCTORS FROM PEDESTAL MOUNTED TRANSFORMER TO GENERATOR COMPOUND (POWER SOURCE)
 2. DMS FO CONDUIT TO I-75 SHALL CONSIST OF (1) - 1" AND (2) - 1.25" INNERDUCT CONDUITS WITHIN A 4" OUTERDUCT.

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (23)	SHEET NO. T-42
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
----	----	----	----		MOCASIN WALLOW RD	6092560		

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



MAINTAIN 10' MIN. FROM E/P

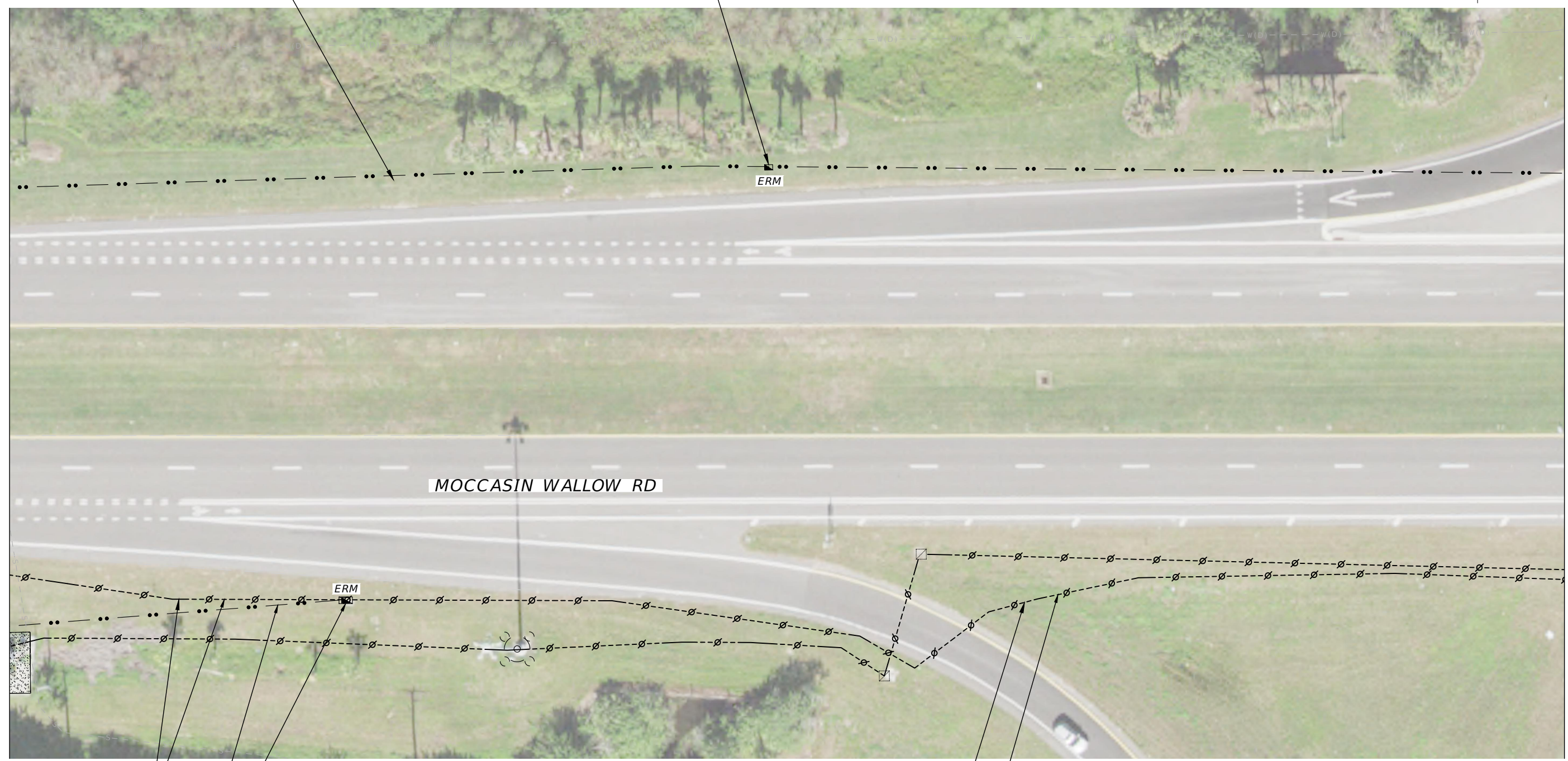
MAINTAIN 10' MIN. FROM E/P

(FO, SP) 2 RUNS @ 580'
(48 SM) 580 LF

1 EA
(48 SM) 50 LF

630-2-12
633-1-122

635-2-12
633-1-122



MATCH LINE A

MATCH LINE B

MOCCASIN WALLOW RD

EXISTING ITS CONDUIT

EXISTING ITS CONDUIT

125 LF 633-1-620

460 LF 633-1-620

(FO) 125 LF 630-2-12
(12 SM) 125 LF 633-1-121

(12 SM) 460 LF 633-1-121

1 EA 635-2-12
(12 SM) 50 LF 633-1-121

REPLACE EXISTING FO PULL BOX

NOTE:
DMS FO CONDUIT TO I-75 SHALL CONSIST OF (1) - 1" AND (2) - 1.25" INNERDUCT CONDUITS WITHIN A 4" OUTERDUCT.

R/W IS OUTSIDE PLAN SHEET LIMITS

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (24)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
----	----	----	----		MOCASIN WALLOW RD	6092560		T-43



MAINTAIN 10' MIN. FROM E/P

(FO, SP) 2 RUNS @ 580'
(48 SM) 580 LF

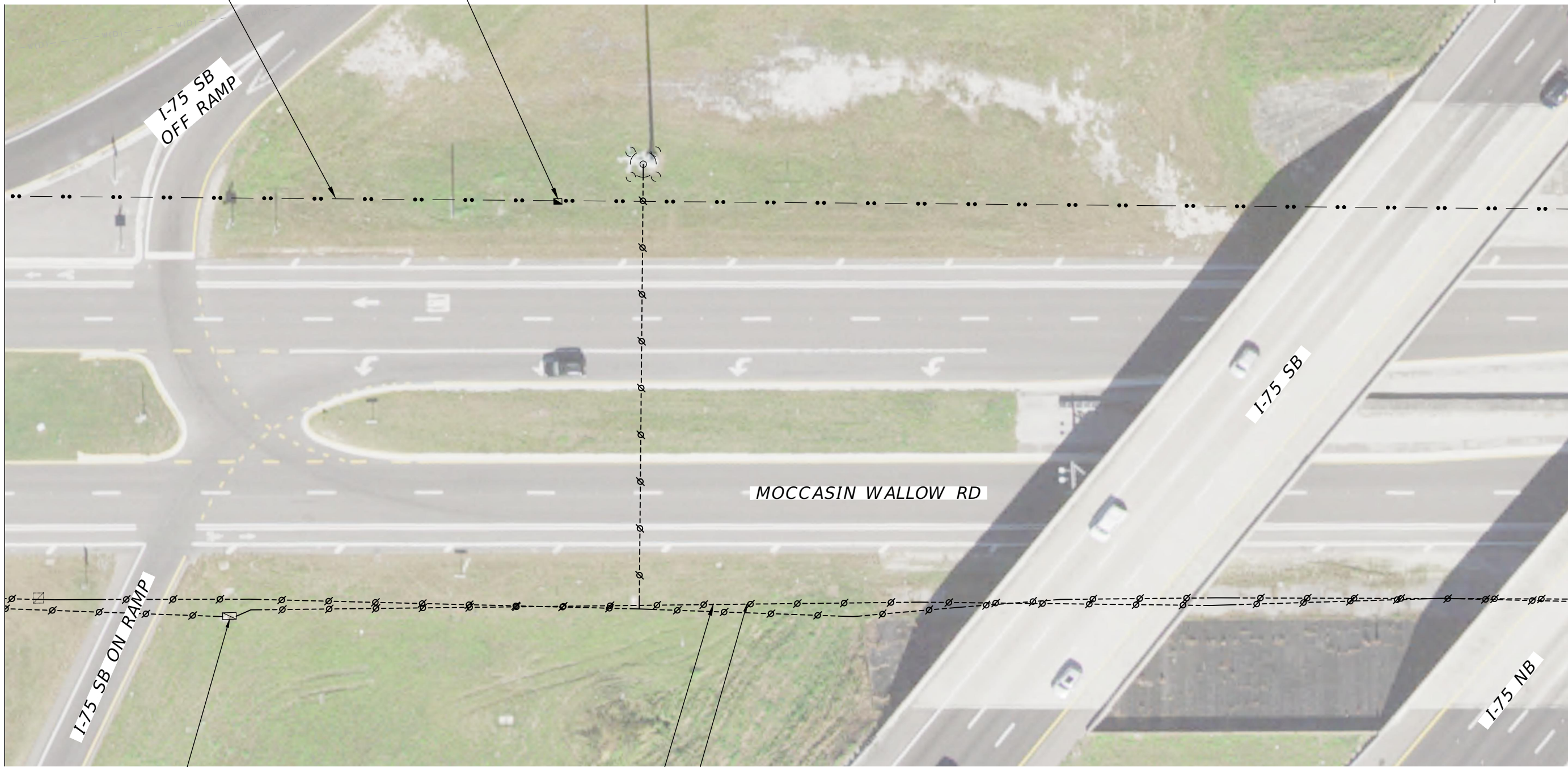
630-2-12
633-1-122

1 EA
(48 SM) 50 LF

635-2-12
633-1-122

MATCH LINE B

MATCH LINE C



(12 SM) 50 LF

633-1-121

EXISTING ITS CONDUIT

580 LF
(12 SM) 580 LF

633-1-620
633-1-121

R/W IS OUTSIDE PLAN SHEET LIMITS

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (25)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		T-44
----	----				MOCCASIN WALLOW RD	6092560		

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



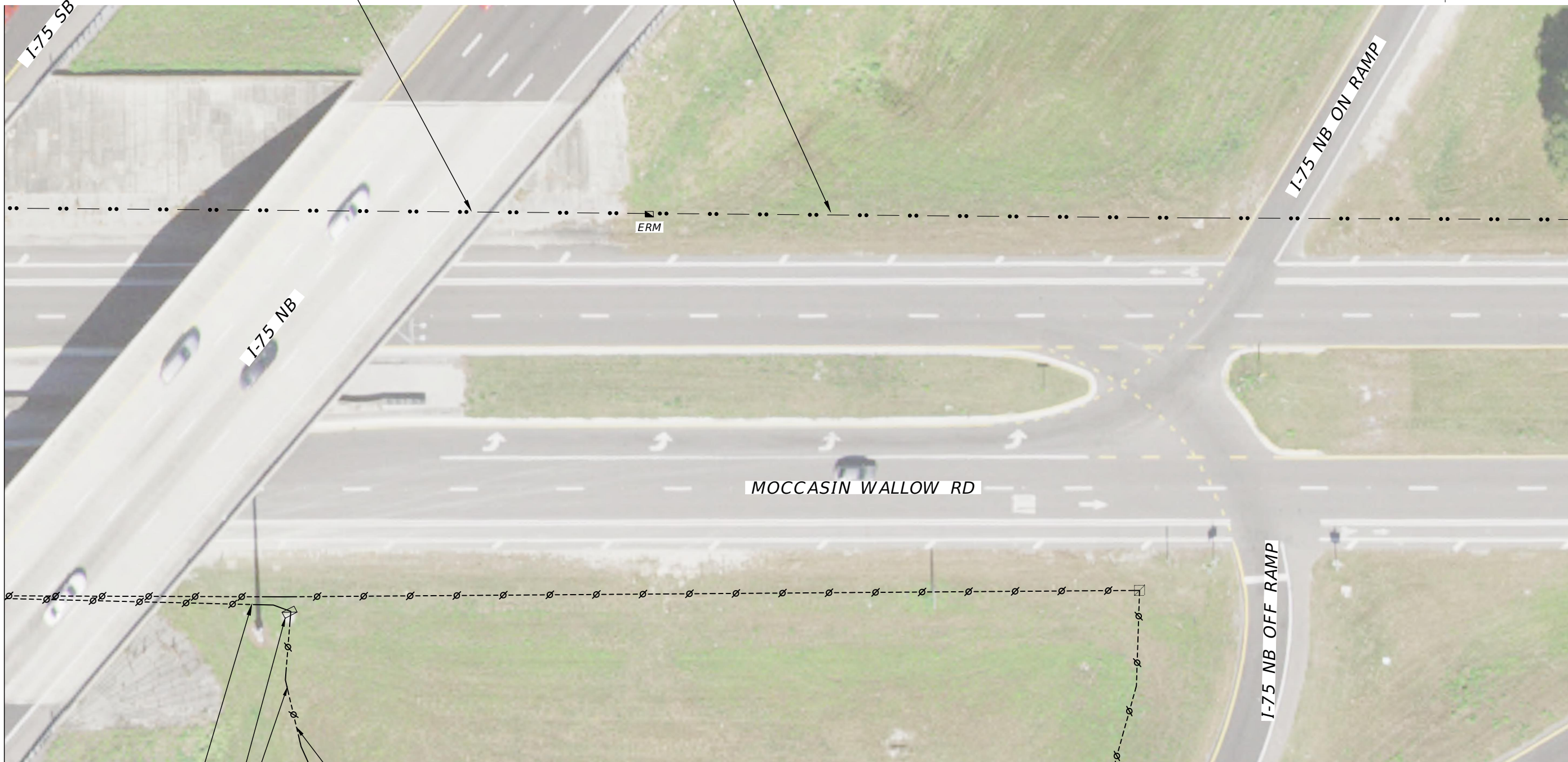
MAINTAIN 10' MIN. FROM E/P

(FO, SP) 2 RUNS @ 580'
(48 SM) 580 LF

630-2-12
633-1-122

1 EA
(48 SM) 50 LF

635-2-12
633-1-122



MATCH LINE C

MATCH LINE D

MOCCASIN WALLOW RD

MATCH LINE G

EXISTING ITS CONDUIT
(12 SM) 50 LF

633-1-121

CONTAINS (2) 12 SM FO
REMOVE DMS FO

160 LF
(12 SM) 160 LF

633-1-620
633-1-121

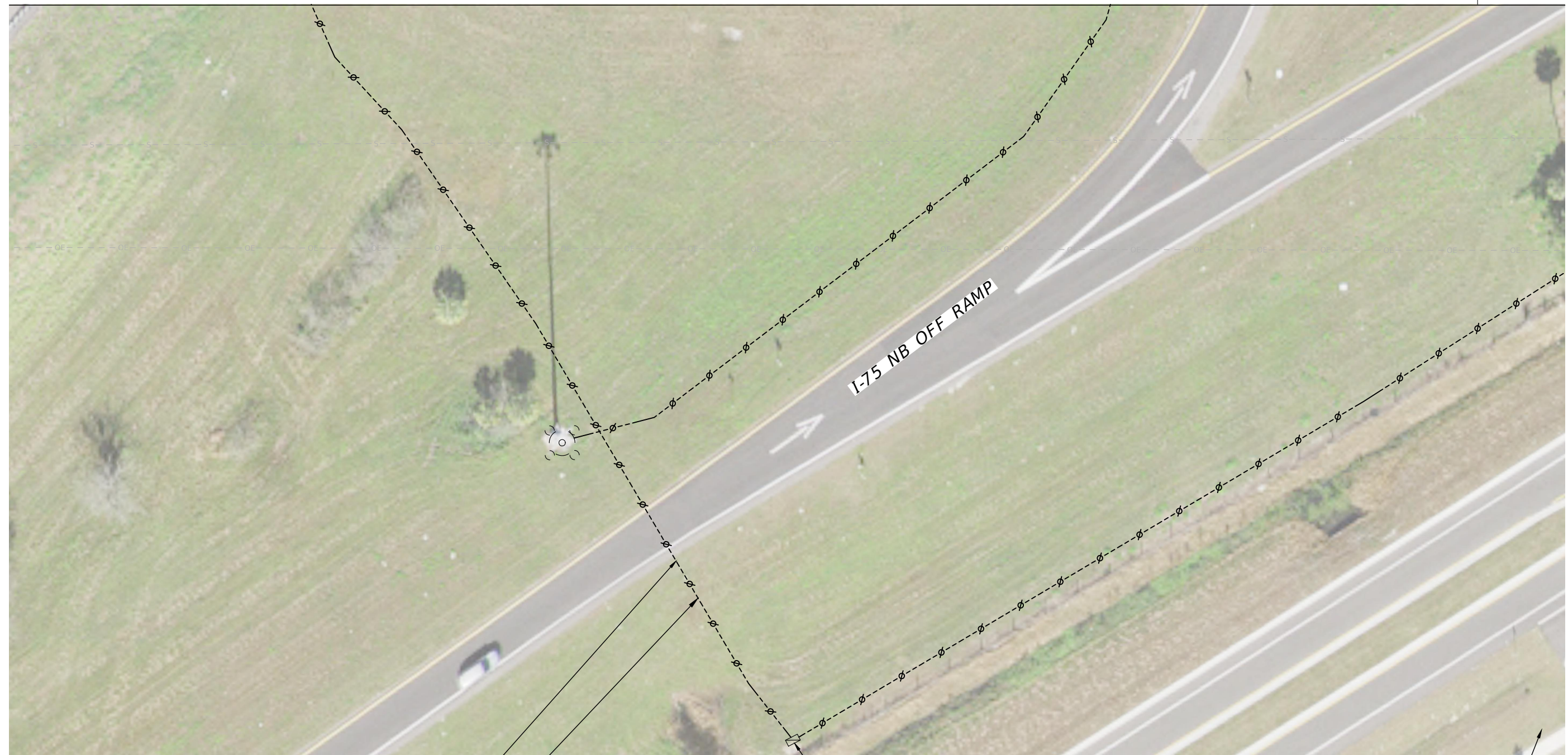
R/W IS OUTSIDE PLAN SHEET LIMITS

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (26)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		T-45
---	---	---	---		MOCCASIN WALLOW RD	6092560		

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MATCH LINE G



(12 SM) 330 LF 633-1-121
 EXISTING ITS CONDUIT
 CONTAINS (2) 12 SM FO
 REMOVE DMS FO

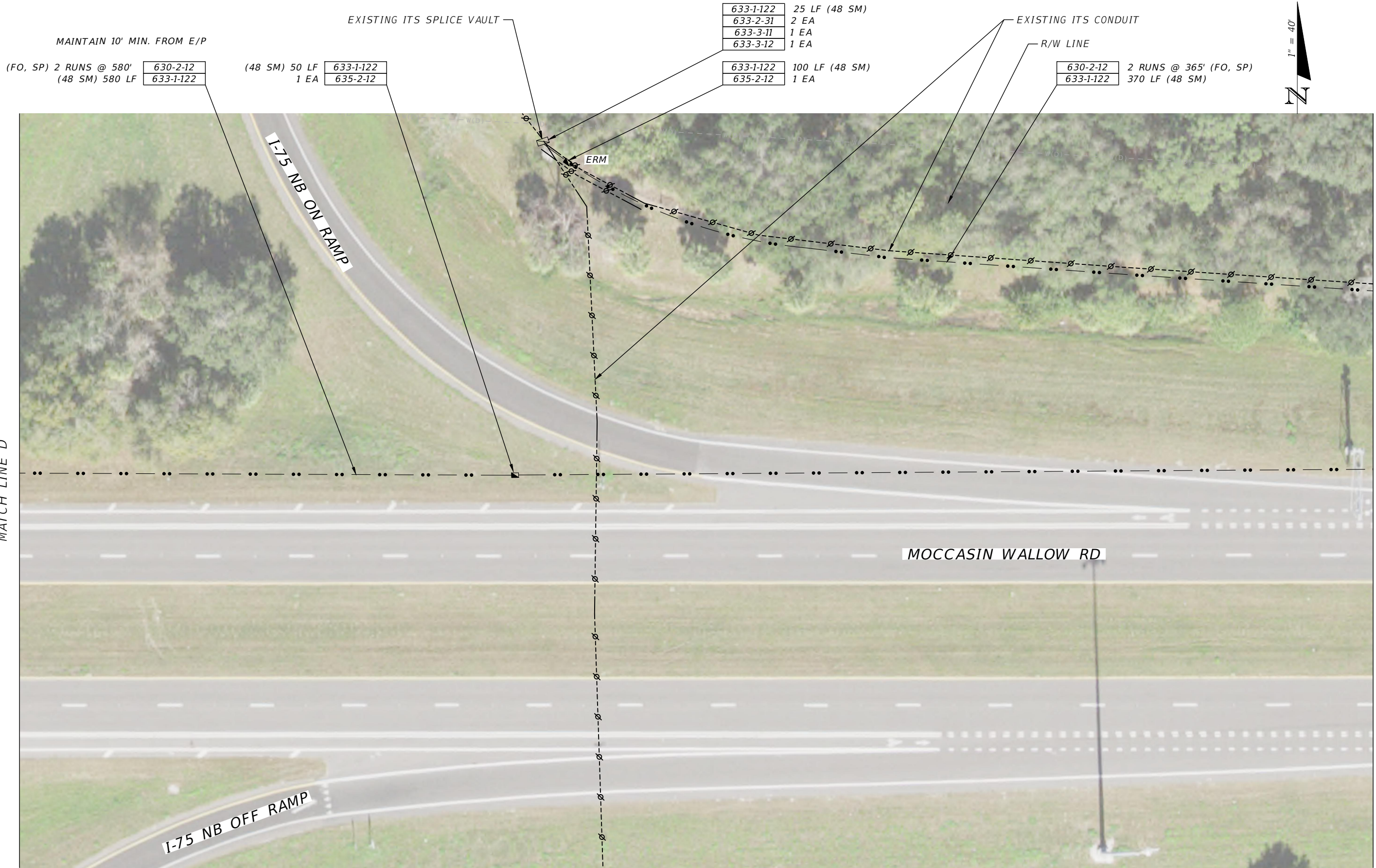
633-1-121	100 LF (12 SM)
633-2-31	4 EA
633-3-11	1 EA
633-3-12	1 EA

EXISTING ITS SPLICE VAULT

R/W LINE

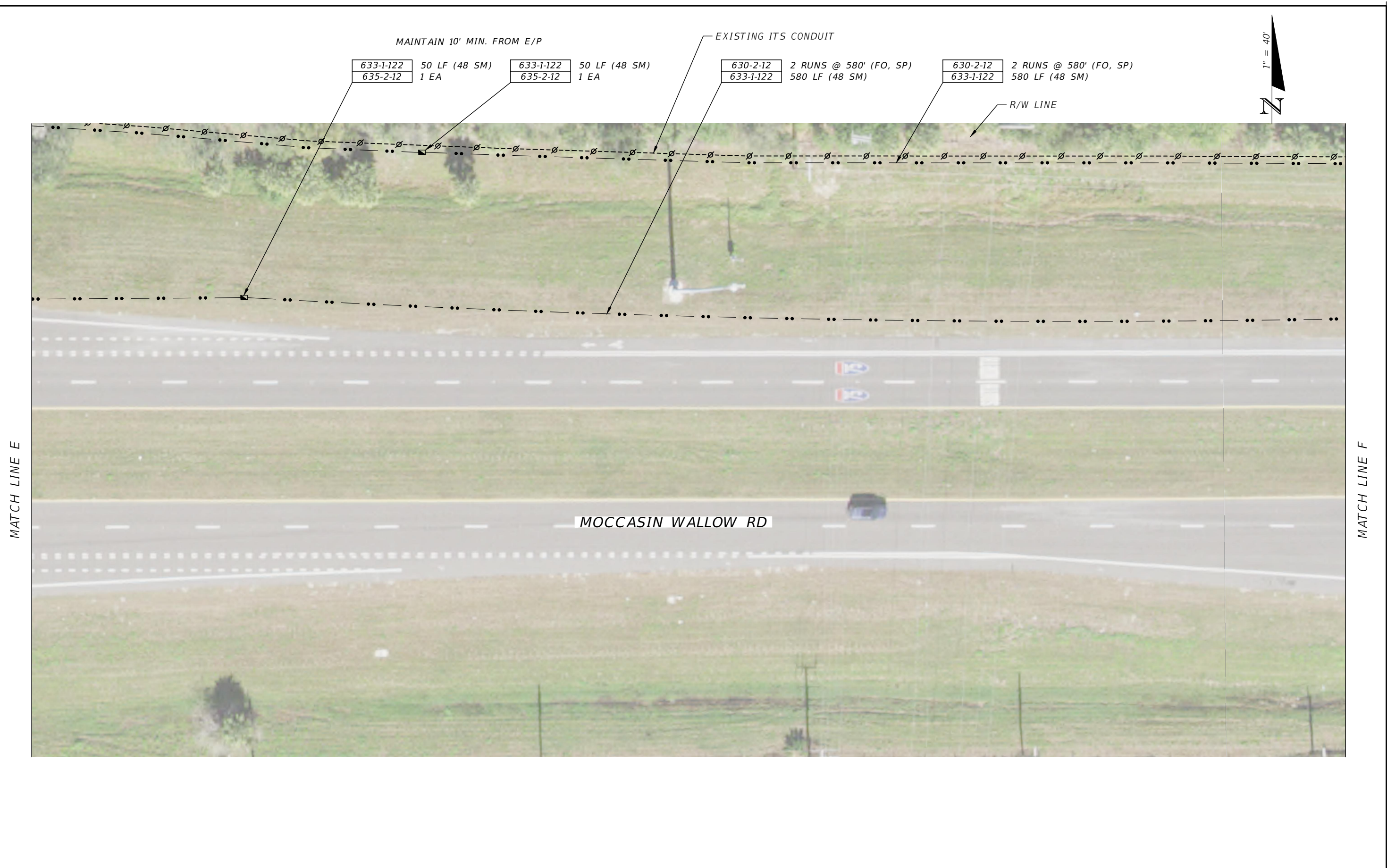
REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (27)	SHEET NO. T-46
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
---	---	---	---		MOCCASIN WALLOW RD	6092560		

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



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

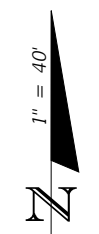
REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (28)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		T-47
---	---	---	---		MOCCASIN WALLOW RD	6092560		



MATCH LINE E

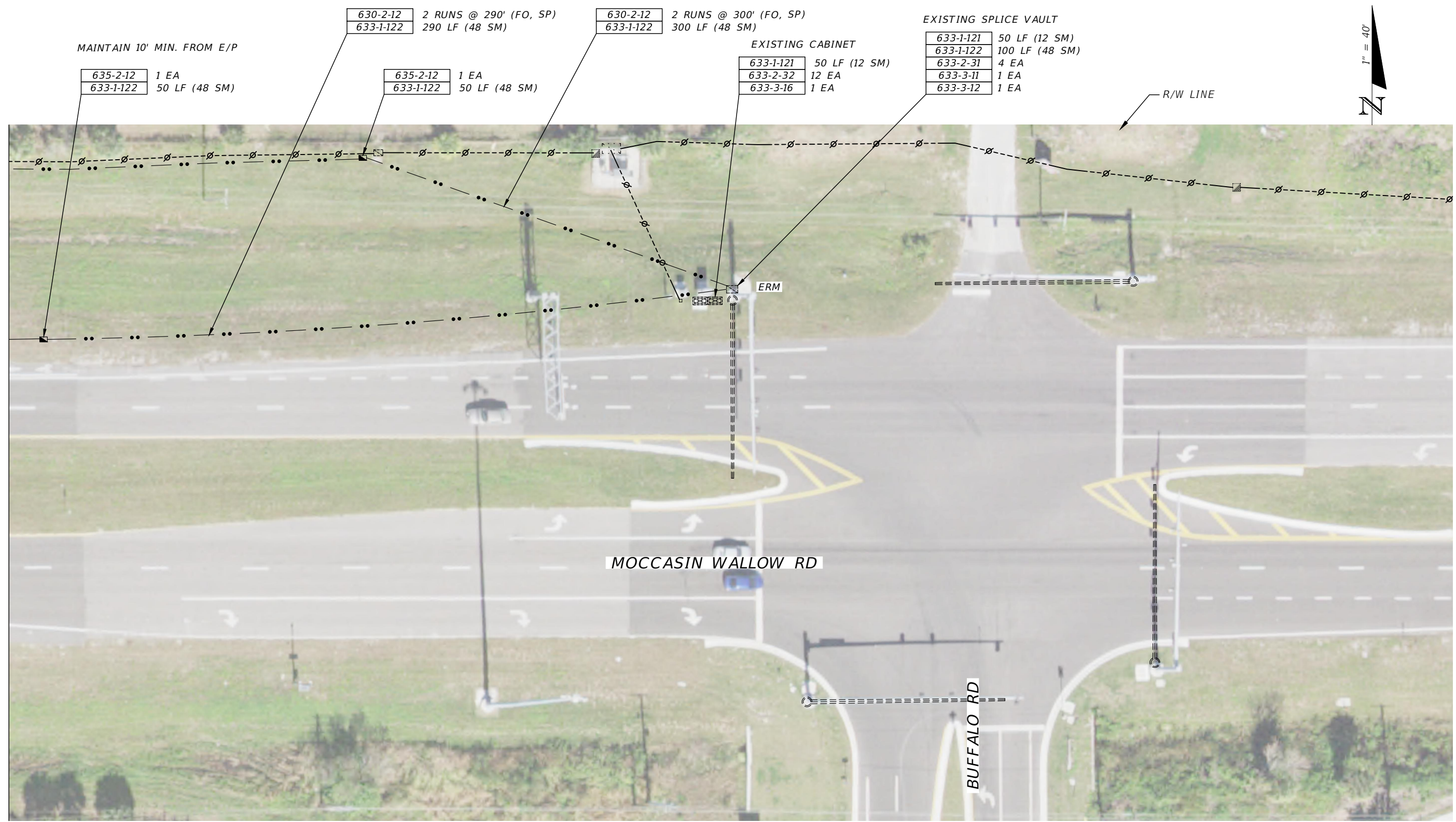
MATCH LINE F

MOCCASIN WALLOW RD



REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (29)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		T-48
---	---	---	---		MOCCASIN WALLOW RD	6092560		

MATCH LINE F

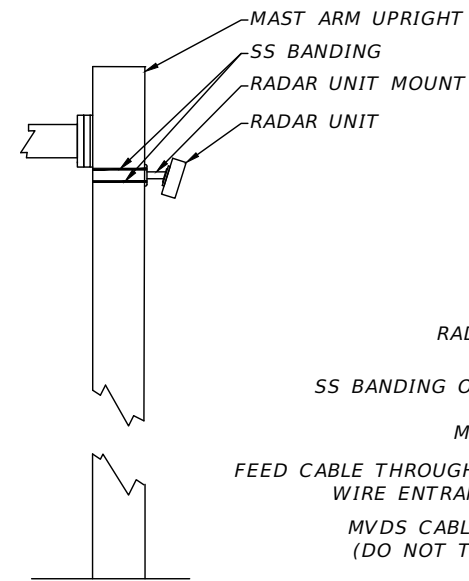
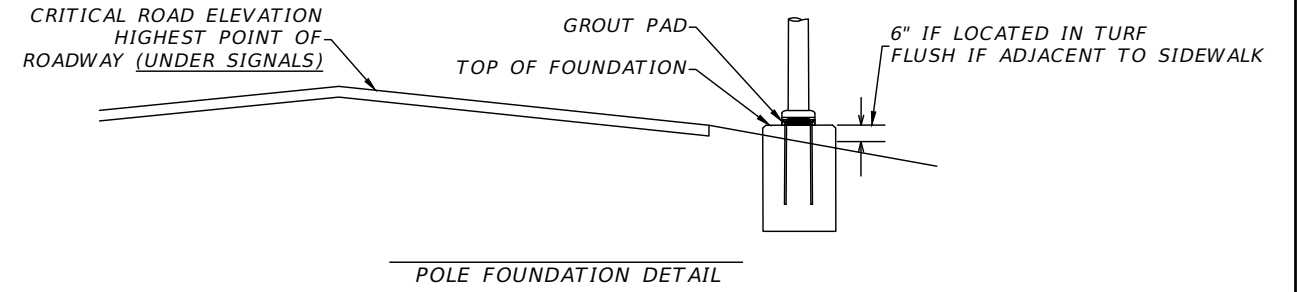


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

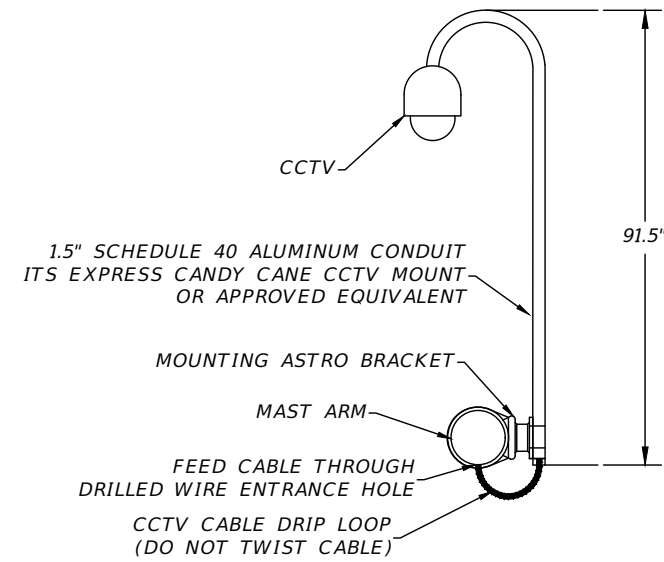
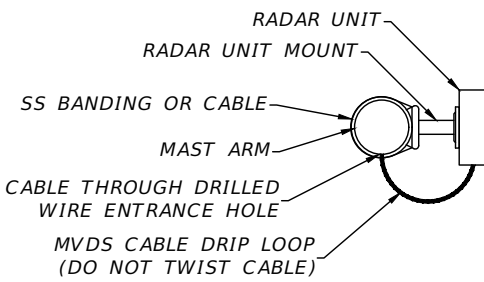
REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		INTERCONNECT PLAN (30)	SHEET NO. T-49
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
---	---	---	---		MOCCASIN WALLOW RD	6092560		

SPECIAL NOTES

- A. EACH POLE AND MAST ARM SHALL BE IDENTIFIED WITH A PERMANENT ONE INCH (1") HIGH ENGRAVED OR IMPRESSED MARK WHICH BEARS THE POLE IDENTIFICATION NUMBER SHOWN ON THE PLANS.
- B. ANCHOR BOLT COVERS (ORNAMENTAL, NON-ORNAMENTAL, AND/OR PAINTED) SHALL BE GALVANIZED STEEL OR CAST ALUMINUM AND SHALL BE SECURED BY A MINIMUM OF TWO (2) THREADED FASTENERS. THE BOLT COVERS SHALL BE OF SUFFICIENT SIZE SO THAT THERE IS NO GAP BETWEEN ITSELF AND THE POLE SHAFT.
- C. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL ELEVATIONS LISTED IN THE PLANS.
- D. ALL MAST ARM POLES SHALL BE GALVANIZED NON-PAINTED.



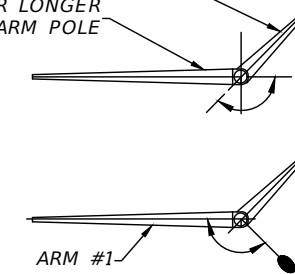
MVDS MOUNTING DETAILS



CCTV MOUNTING DETAIL

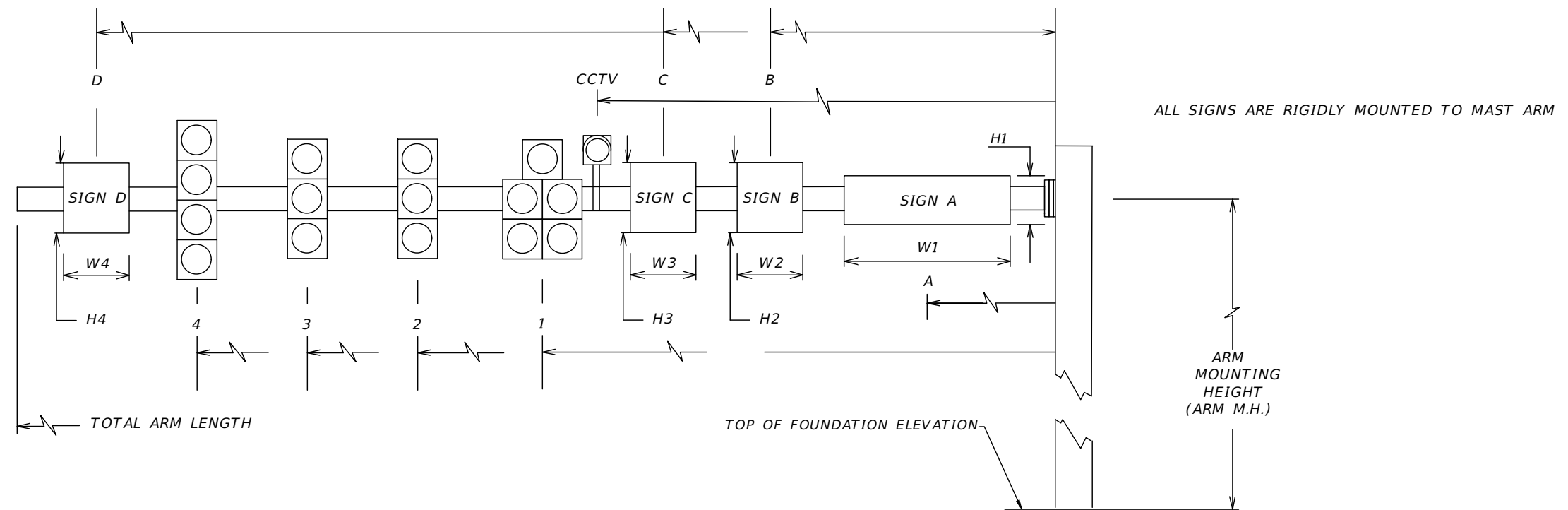
ARM #2- DOUBLE ARM POLE ORIENTATION TO BE MEASURED IN A COUNTER CLOCKWISE DIRECTION FROM ARM 1.

ARM #1-SINGLE ARM OR LONGER ARM FOR DOUBLE ARM POLE



LUMINAIRE ROTATION TO BE MEASURED IN A COUNTER CLOCKWISE DIRECTION FROM ARM

ARM ORIENTATION DETAIL



REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		SHEET NO. T-50
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID	
----	----	----	----		MOCCASIN WALLOW RD	6092560	

* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

-- FIELD INSTALLATION DATA --

FDOT ID NO.	SHEET-POLE NO.	LOCATION BY STA.	TOP OF FOUND. ELEVATION	RDWY ARM NO.	CROWN ELEV.	SIGNAL DATA											TOTAL ARM LENGTH	ARM M.H.	ANGLE BETWEEN DUAL ARMS	SIGN DATA												CCTV OR MVDS DISTANCE									
						SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE											DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN																					
									1	*	2	*	3	*	4	*				5	*	A	H1	W1	B	H2	W2	C	H3	W3	D					H4	W4				
13M144	T-10-1	300+81.6 77.2 LT	N/A	1	N/A	V	Y	N	(44)	(3)	(55)	(3)	(68)	(4)				(70.5)	(22)	N/A	(10)	(2.5)	(6)													16	69				
13M144	T-10-2	300+97.6 57.0 RT	14.30	1	14.78	V	Y	N	26	3	38	5	75.5	3				78	21	N/A	13	2.5	6																		
13M144	T-10-3	299+04.8 47.8 RT	N/A	1	N/A	V	Y	N	(54.5)	(3)	(66.5)	(3)	(78)	(3)				(80)	(23.5)	N/A	15	(2.5)	(10)													30	34	75	79		
13M144	T-10-4	299+08.5 70.2 LT	N/A	1	N/A	V	Y	N	32	3	46	5	(60)	(3)	63.5	3		(70.5)	(23)	N/A	(10)	(2.5)	(6)														19				
---	T-13-1	340+14.1 88.3 LT	38.30	1	39.34	V	Y	N	52.5	5	60.5	3	68.5	4				78	22	N/A	14	2.5	8	48.5	2.5	2.5	72.5	3	2.5												
---	T-13-2	340+06.2 78.8 RT	39.80	1	41.25	V	Y	N	21	5	48	3	60	3	72	4		78	21	N/A	10.5	2.5	10	17	2.5	2.5	68	3	2.5	76	3	2.5				54					
---	T-13-3	338+94.2 90.3 RT	39.50	1	39.29	V	Y	N	34	5	43	3	52	4				64	22.00	N/A	14	2.5	8	30	2.5	2.5	56	3	2.5												
---	T-13-4	338+87.5 79.6 LT	39.80	1	41.26	V	Y	N	30	5	49	3	61	3	73	4		78	22	N/A	14.5	2.5	10	26	2.5	2.5	69	3	2.5	77	3	2.5				42	55				
---	T-15-1	368+39.5 81.6 LT	33.00	1	32.50	V	Y	N	44	5	55	5	66	3				70	XX	N/A	14	2.5	8															22			
---	T-15-2	368+42.6 76.9 RT	31.80	1	33.43	V	Y	N	27	5	46	3	58	3	70	4		78	XX	N/A	14	2.5	8	23	2.5	2.5	66	3	2.5	74	3	2.5				52					
---	T-15-3	366+92.5 81.0 RT	33.00	1	31.97	V	Y	N	42	5	53	5	64	3				70	XX	N/A	14	2.5	8	38	2.5	2.5												26			
---	T-15-4	366+89.4 79.4 LT	33.76	1	33.90	V	Y	N	30	5	49	3	61	3	73	4		78	XX	N/A	14	2.5	8	26	2.5	2.5	69	3	2.5	76	3	2.5				42	67				
---	T-17-1	386+18.5 91.7 LT	28.60	1	29.50	V	Y	N	41	5	53	3	63	4				72	22	N/A	14	2.5	8	37	2.5	2.5	59	3	2.5	67	3	2.5									
---	T-17-2	386+15.6 79.0 RT	29.92	1	31.15	V	Y	N	29	5	48	3	60	3	72	4		78	21	N/A	14.5	2.5	9	25	2.5	2.5	76	3	2.5								54				
---	T-17-3	384+81.63 78.1 RT	29.70	1	29.50	V	Y	N	37.5	3	45.5	3	54.5	4				64	22	N/A	14	2.5	8	33.5	2.5	2.5	50	3	2.5	58.5	3	2.5									
---	T-17-4	384+55.3 78.8 LT	30.50	1	31.76	V	Y	N	29	5	48	3	60	3	72	4		78	22	N/A	14.5	2.5	9	25	2.5	2.5	68	3	2.5	76	3	2.5				42	54				

(XX) = EXISTING MAST ARM AND ATTACHMENT VALUES. EXISTING MAST ARM DATA AS PER FDOT PROJECT ID 432661-1-52-01.

*** THE TABLE BELOW IS FOR DESIGN PURPOSES ONLY! THE CONTRACTOR SHALL NOT USE INFORMATION BELOW IN PLACEMENT OF THE SIGNALS AND/OR SIGNS. SEE INFORMATION IN THE TABLE LOCATED ABOVE FOR FIELD INSTALLATION.

* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

-- MAST ARM DESIGN DATA --

FDOT ID NO.	SHEET-POLE NO.	LOCATION BY STA.	TOP OF FOUND. ELEVATION	RDWY ARM NO.	CROWN ELEV.	SIGNAL DATA											TOTAL ARM LENGTH	ARM M.H.	ANGLE BETWEEN DUAL ARMS	SIGN DATA												CCTV OR MVDS DISTANCE											
						SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE											DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN																							
									1	*	2	*	3	*	4	*				5	*	A	H1	W1	B	H2	W2	C	H3	W3	D					H4	W4						
13M144	T-10-1	300+81.6 77.2 LT	N/A	1	N/A	V	Y	N	(44)	(3)	(55)	(3)	(68)	(4)				(70.5)	(22)	N/A	(10)	(2.5)	(6)															16	69				
13M144	T-10-2	300+97.6 57.0 RT	14.30	1	14.78	V	Y	N	26	3	38	5	75.5	3				78	21	N/A	13	2.5	6																				
13M144	T-10-3	299+04.8 47.8 RT	N/A	1	N/A	V	Y	N	(54.5)	(3)	(66.5)	(3)	(78)	(3)				(80)	(23.5)	N/A	15	(2.5)	(10)																30	34	75	79	
13M144	T-10-4	299+08.5 70.2 LT	N/A	1	N/A	V	Y	N	32	3	46	5	(60)	(3)	63.5	3		(70.5)	(23)	N/A	(10)	(2.5)	(6)																	19			
---	T-13-1	340+14.1 88.3 LT	38.30	1	39.34	V	Y	N	52.5	5	60.5	3	68.5	4				78	22	N/A	14	2.5	8	48.5	2.5	2.5	72.5	3	2.5														
---	T-13-2	340+06.2 78.8 RT	39.80	1	41.25	V	Y	N	21	5	48	3	60	3	72	4		78	21	N/A	10.5	2.5	10	17	2.5	2.5	68	3	2.5	76	3	2.5				54							
---	T-13-3	338+94.2 90.3 RT	39.50	1	39.29	V	Y	N	34	5	43	3	52	4				64	22	N/A	14	2.5	8	30	2.5	2.5	56	3	2.5														
---	T-13-4	338+87.5 79.6 LT	39.80	1	41.26	V	Y	N	30	5	49	3	61	3	73	4		78	22	N/A	14.5	2.5	10	26	2.5	2.5	69	3	2.5	77	3	2.5				42	55						
---	T-15-1	368+39.5 81.6 LT	33.00	1	32.50	V	Y	N	44	5	55	5	66	3				70	XX	N/A	14	2.5	8																22				
---	T-15-2	368+42.6 76.9 RT	31.80	1	33.43	V	Y	N	27	5	46	3	58	3	70	4		78	XX	N/A	14	2.5	8	23	2.5	2.5	66	3	2.5	74	3	2.5				52							
---	T-15-3	366+92.5 81.0 RT	33.00	1	31.97	V	Y	N	42	5	53	5	64	3				70	XX	N/A	14	2.5	8	38	2.5	2.5												26					
---	T-15-4	366+89.4 79.4 LT	33.76	1	33.90	V	Y	N	30	5	49	3	61	3	73	4		78	XX	N/A	14	2.5	8	26	2.5	2.5	69	3	2.5	76	3	2.5				42	67						
---	T-17-1	386+18.5 91.7 LT	28.60	1	29.50	V	Y	N	41	5	53	3	63	4				72	22	N/A	14	2.5	8	37	2.5	2.5	59	3	2.5	67	3	2.5											
---	T-17-2	386+15.6 79.0 RT	29.92	1	31.15	V	Y	N	29	5	48	3	60	3	72	4		78	21	N/A	14.5	2.5	9	25	2.5	2.5	76	3	2.5								54						
---	T-17-3	384+81.63 78.1 RT	29.70	1	29.50	V	Y	N	37.5	3	45.5	3	54.5	4				64	22	N/A	14	2.5	8	33.5	2.5	2.5	50	3	2.5	58.5	3	2.5											
---	T-17-4	384+55.3 78.8 LT	30.50	1	31.76	V	Y	N	29	5	48	3	60	3	72	4		78	22	N/A	14.5	2.5	9	25	2.5	2.5	68	3	2.5	76	3	2.5				42	54						

(XX) = EXISTING MAST ARM AND ATTACHMENT VALUES. EXISTING MAST ARM DATA AS PER FDOT PROJECT ID 432661-1-52-01.

REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		SHEET NO. T-51
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID	
----	----				MOCCASIN WALLOW RD	6092560	

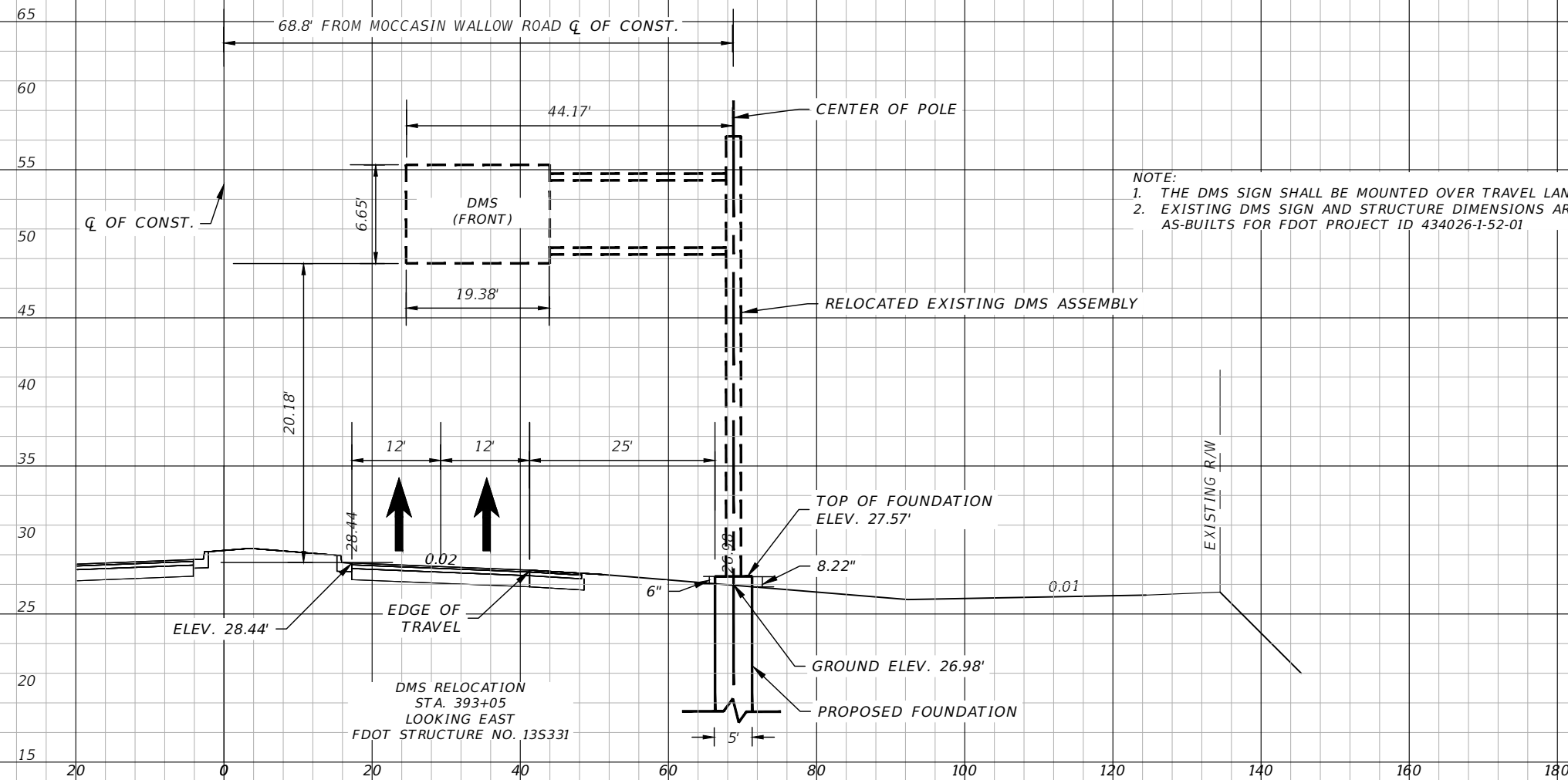
MAST ARM TABULATION (2)

STANDARD MAST ARM ASSEMBLIES DATA TABLE												Table Date 11-01-16
FDOT STRUCTURE ID NUMBER	SHEET-POLE NO.	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.)	
13M144	T-10-2	A78/S-P6/S-DS/16/4.5	A78/S	---	---	---	---	---	P6/S	24.0	21.0	DS/16/4.5
---	T-13-1	A78/S-P6/S-DS/25/5.0	A78/S	---	---	---	---	---	P6/S	---	22.0	DS/25/5.0
---	T-13-2	A78/S-P6/S/L-DS/25/5.0	A78/S	---	---	---	---	---	P6/S/L	---	22.0	DS/25/5.0
---	T-13-3	A70/S-P5/S-DS/25/5.0	A70/S	32.0	---	---	---	---	P5/S	24.0	21.0	DS/25/5.0
---	T-13-4	A78/S/H-P6/S-DS/20/5.0	A78/S/H	---	---	---	---	---	P6/S	---	22.0	DS/20/5.0
---	T-15-1	A70/S-P5/S-DS/25/5.0	A70/S	---	---	---	---	---	P5/S	---	22.0	DS/25/5.0
---	T-15-2	A78/S-P6/S-DS/25/5.0	A78/S	---	---	---	---	---	P6/S	24.0	21.0	DS/25/5.0
---	T-15-3	A70/S-P5/S-DS/25/5.0	A70/S	---	---	---	---	---	P5/S	23.0	20.0	DS/25/5.0
---	T-15-4	A78/S/H-P6/S-DS/25/5.0	A78/S/H	---	---	---	---	---	P6/S	24.0	21.0	DS/25/5.0
---	T-17-1	A78/S-P6/S-DS/25/5.0	A78/S	33.0	---	---	---	---	P6/S	---	22.0	DS/25/5.0
---	T-17-2	A78/S-P6/S-DS/25/5.0	A78/S	---	---	---	---	---	P6/S	---	22.0	DS/25/5.0
---	T-17-3	A70/S-P5/S-DS/20/5.0	A70/S	32.0	---	---	---	---	P5/S	24.0	21.0	DS/20/5.0
---	T-17-4	A78/S/H-P6/S-DS/25/5.0	A78/S/H	---	---	---	---	---	P6/S	---	22.0	DS/25/5.0

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. 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.*
- 4. Work with Index 649-030 and 649-031.*

REVISIONS				CHRISTOPHER P. GAMACHE, P.E. P.E. LICENSE NUMBER 82122 CARDNO 380 PARK PLACE BLVD SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		STANDARD MAST ARM ASSEMBLIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		T-52
----	----				MOCCASIN WALLOW RD	6092560		



1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
---	---	---	---

DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
CARDNO
3905 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA 33578
CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	FINANCIAL PROJECT ID
MOCCASIN WALLOW RD	6092560

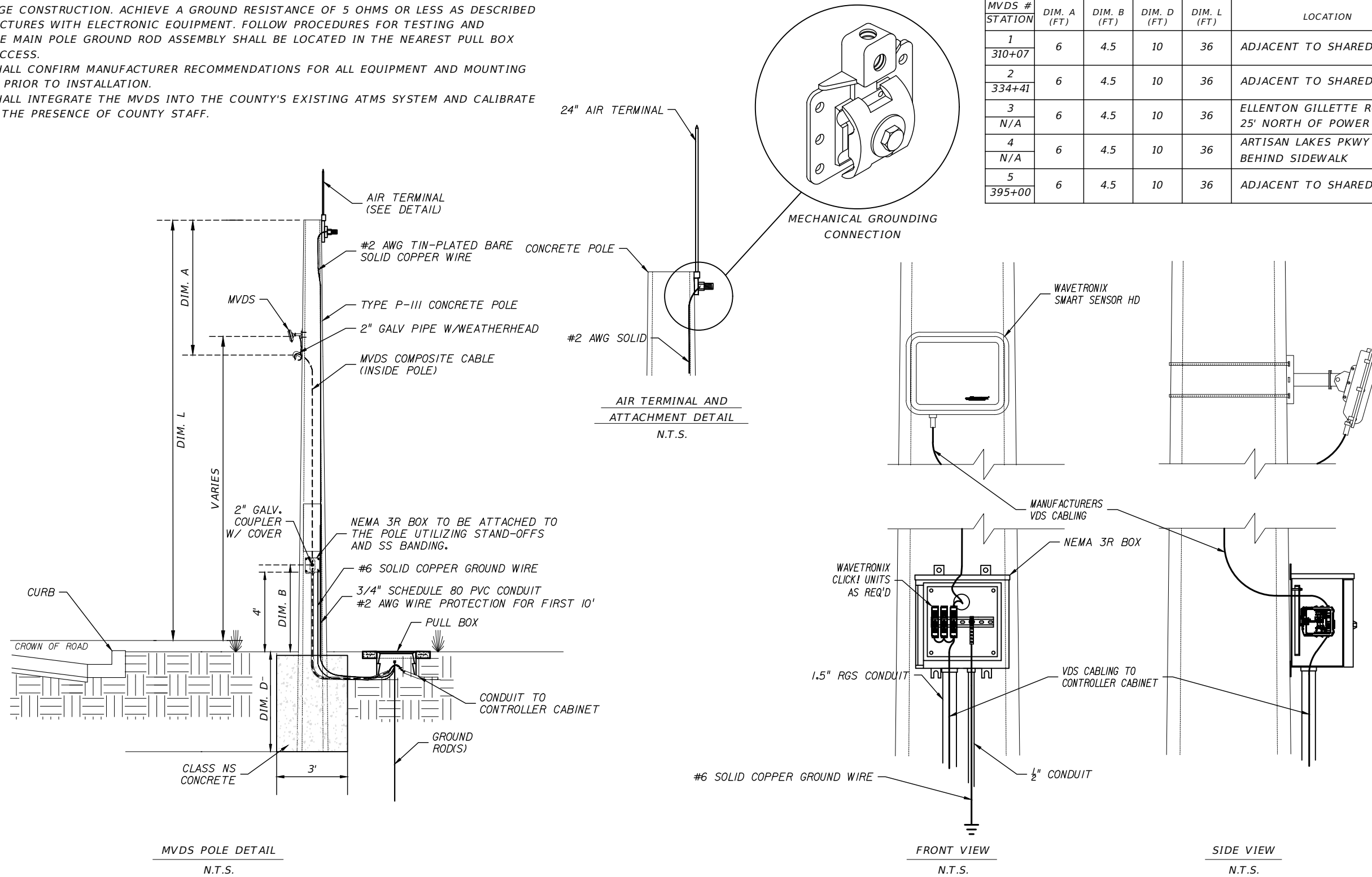
DMS CROSS SECTION

SHEET NO.
T-53

NOTES:

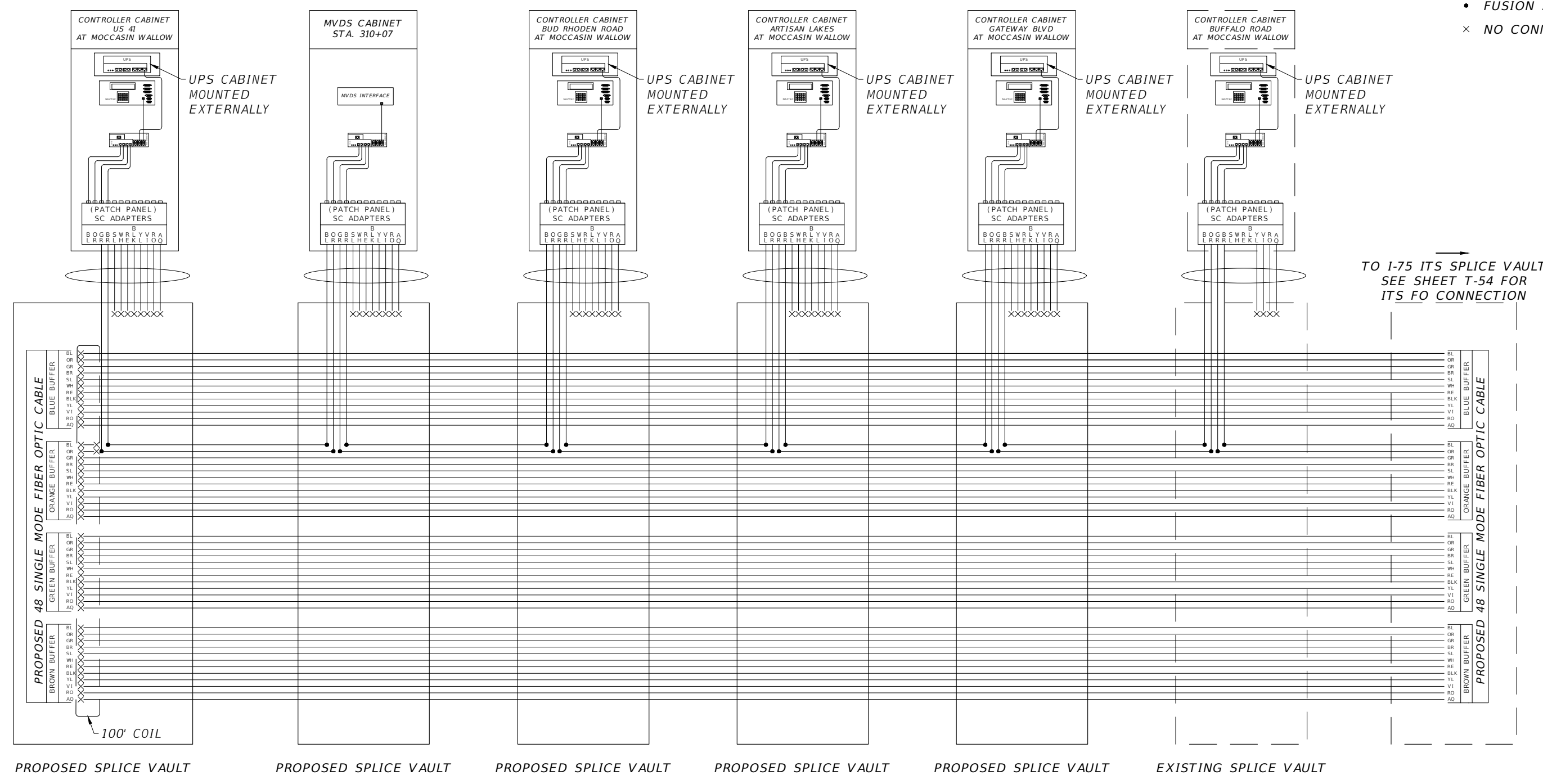
1. WORK THIS SHEET WITH FDOT STANDARD PLAN INDEX 641-010.
2. THE NEMA 3R BOX AND MOUNTING ARMS FOR THE MVDS SHALL BE ATTACHED TO THE POLE USING 3/4" STAINLESS STEEL BANDING.
3. INSTALL GROUNDING FOR THE MVDS SITE AS PER SECTION 620 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. ACHIEVE A GROUND RESISTANCE OF 5 OHMS OR LESS AS DESCRIBED FOR ITS POLES/STRUCTURES WITH ELECTRONIC EQUIPMENT. FOLLOW PROCEDURES FOR TESTING AND DOCUMENTATION. THE MAIN POLE GROUND ROD ASSEMBLY SHALL BE LOCATED IN THE NEAREST PULL BOX FOR MAINTENANCE ACCESS.
4. THE CONTRACTOR SHALL CONFIRM MANUFACTURER RECOMMENDATIONS FOR ALL EQUIPMENT AND MOUNTING HEIGHT DIMENSIONS PRIOR TO INSTALLATION.
5. THE CONTRACTOR SHALL INTEGRATE THE MVDS INTO THE COUNTY'S EXISTING ATMS SYSTEM AND CALIBRATE THE MVDS UNITS IN THE PRESENCE OF COUNTY STAFF.

MVDS POLE VARIABLES					
MVDS # STATION	DIM. A (FT)	DIM. B (FT)	DIM. D (FT)	DIM. L (FT)	LOCATION
1 310+07	6	4.5	10	36	ADJACENT TO SHARED USE PATH
2 334+41	6	4.5	10	36	ADJACENT TO SHARED USE PATH
3 N/A	6	4.5	10	36	ELLENTON GILLETTE ROAD 25' NORTH OF POWER POLE
4 N/A	6	4.5	10	36	ARTISAN LAKES PKWY BEHIND SIDEWALK
5 395+00	6	4.5	10	36	ADJACENT TO SHARED USE PATH



REVISIONS				CHRISTOPHER P. GAMACHE, P.E. P.E. LICENSE NUMBER 82122 CARDNO 380 PARK PLACE BLVD SUITE 300 CLEARWATER, FLORIDA 33759 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		MVDS AND STRAIN POLE DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
----	----	----	----		MOCCASIN WALLOW RD	6092560		T-55

LEGEND
 • FUSION SPLICE
 × NO CONNECTION

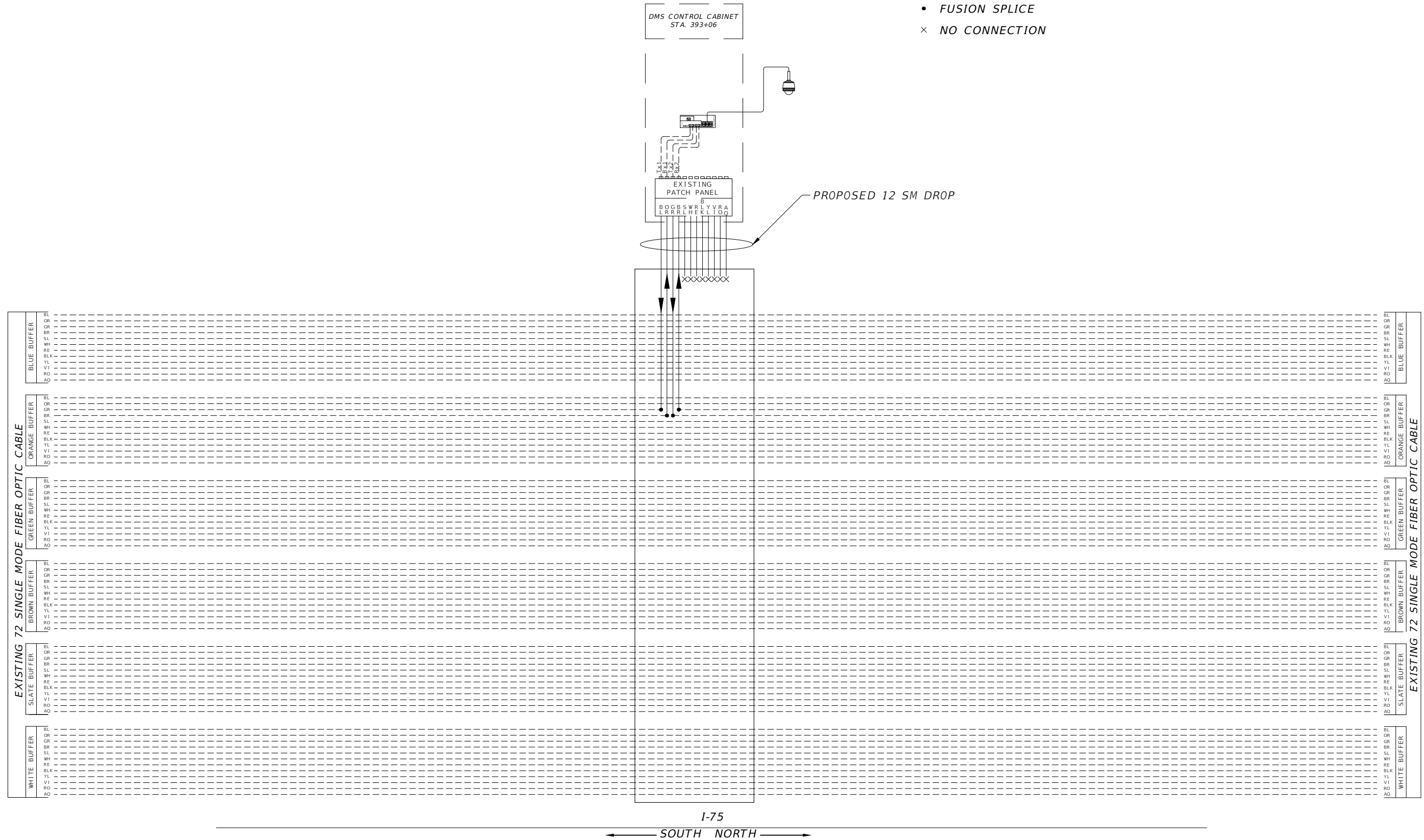


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REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		<i>FIBER OPTIC SPLICE DETAILS (1)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		T-56
----	----				MOCCASIN WALLOW RD	6092560		

LEGEND

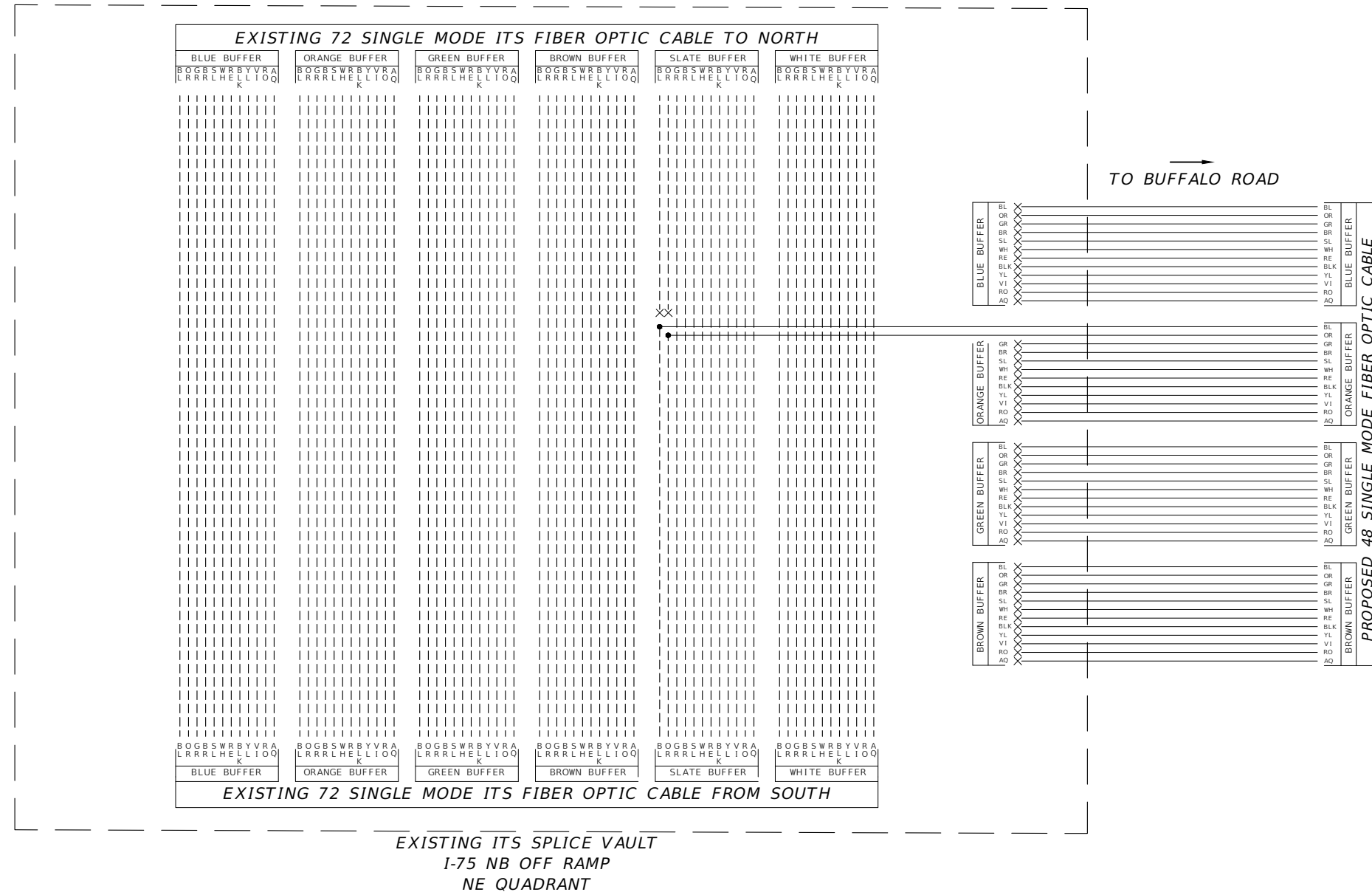
- FUSION SPLICE
- × NO CONNECTION



REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		<i>FIBER OPTIC SPLICE DETAILS (2)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		
----	----				MOCCASIN WALLOW RD	6092560		

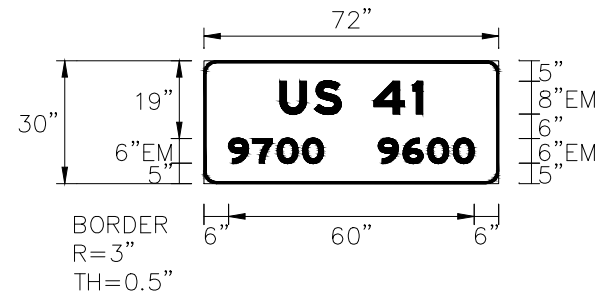
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

- LEGEND**
- FUSION SPLICE
 - × NO CONNECTION



REVISIONS				DAVID J. ALLEN, P.E. P.E. LICENSE NUMBER 58540 CARDNO 3905 CRESCENT PARK DRIVE RIVERVIEW, FLORIDA 33578 CERTIFICATE OF AUTHORIZATION 29915	MANATEE COUNTY		<i>FIBER OPTIC SPLICE DETAILS (3)</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	PROJECT ID		T-58
----		----			MOCCASIN WALLOW RD	6092560		

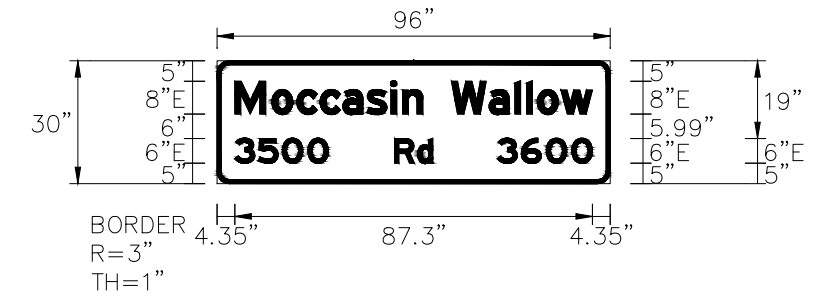
SIGN NAME	A	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER		N/A		
WIDTH	6'-0"	WIDTH	0.5"		
HEIGHT	2'-6"	RADII	3"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



COPY	U	S	4	1	L	
SPACE	18.6	27	33.5	41.5	51	34.9
COPY	9	7	0	0	L	
SPACE	6	11.9	17.9	24.2	23.2	
COPY	9	6	0	0	L	
SPACE	42.6	48.7	54.7	61	23.4	
COPY						
SPACE						
COPY						
SPACE						
COPY						
SPACE						

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

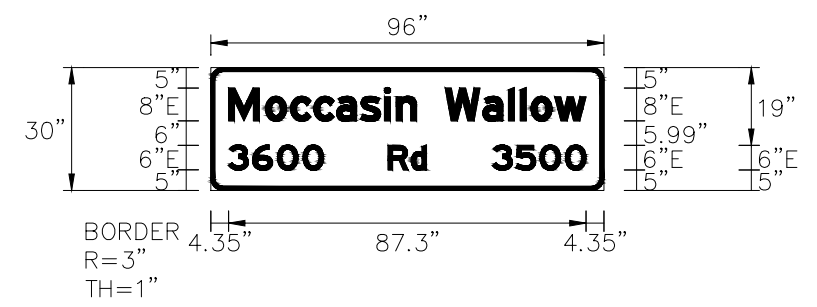
SIGN NAME	B	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER		N/A		
WIDTH	8'-0"	WIDTH	1"		
HEIGHT	2'-6"	RADII	3"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



COPY	M	o	c	c	a	s	i	n	w	a	l	l	o	w	L
SPACE	4.3	13.4	19.5	25.1	30.7	36.6	42.4	45.3	57.3	66.5	72.7	75.6	78.2	84	87.3
COPY	3	5	0	0	L										
SPACE	4.3	10	15.9	22.2	22.9										
COPY	R	d	L												
SPACE	43.3	49	9.4												
COPY	3	6	0	0	L										
SPACE	68.4	74.3	80.4	86.6	23.2										
COPY															
SPACE															
COPY															
SPACE															

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

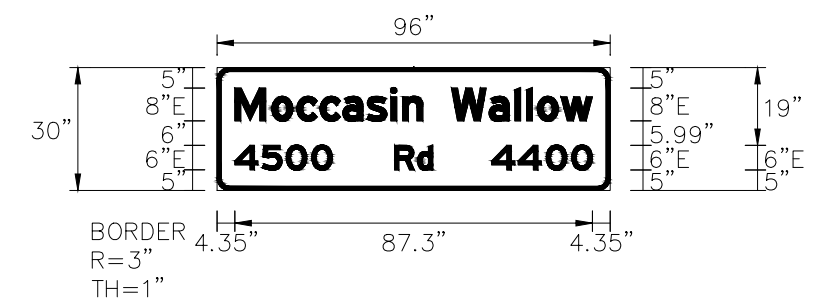
SIGN NAME	C	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER		N/A		
WIDTH	8'-0"	WIDTH	1"		
HEIGHT	2'-6"	RADII	3"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



COPY	M	o	c	c	a	s	i	n	w	a	l	l	o	w	L
SPACE	4.3	13.4	19.5	25.1	30.7	36.6	42.4	45.3	57.3	66.5	72.7	75.6	78.2	84	87.3
COPY	3	6	0	0	L										
SPACE	4.3	10.2	16.3	22.5	23.2										
COPY	R	d	L												
SPACE	43.3	49	9.4												
COPY	3	5	0	0	L										
SPACE	68.8	74.5	80.4	86.6	22.9										
COPY															
SPACE															
COPY															
SPACE															

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

SIGN NAME	D	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER		N/A		
WIDTH	8'-0"	WIDTH	1"		
HEIGHT	2'-6"	RADII	3"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



COPY	M	o	c	c	a	s	i	n	w	a	l	l	o	w	L
SPACE	4.3	13.4	19.5	25.1	30.7	36.6	42.4	45.3	57.3	66.5	72.7	75.6	78.2	84	87.3
COPY	4	5	0	0	L										
SPACE	4.3	11	16.9	23.1	23.8										
COPY	R	d	L												
SPACE	43.3	49	9.4												
COPY	4	4	0	0	L										
SPACE	67.1	73.5	80.4	86.6	24.6										
COPY															
SPACE															
COPY															
SPACE															

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

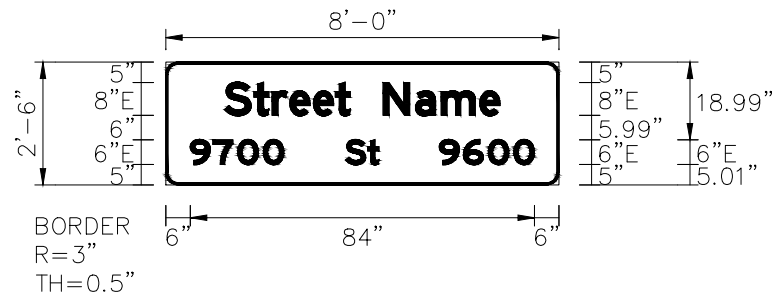
DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
CARDNO
3905 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA 33578
CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

GUIDE SIGN WORKSHEET (1)	
SHEET NO.	
T-59	

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

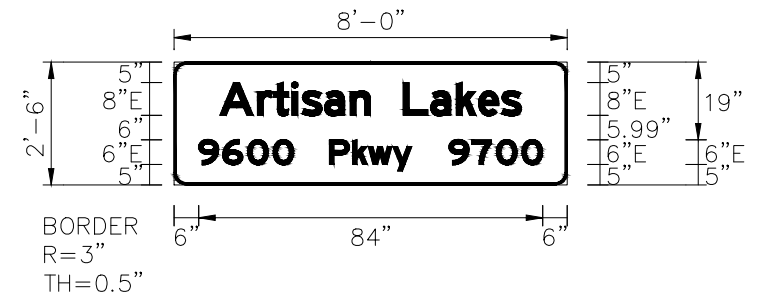
SIGN NAME	I	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER		N/A		
WIDTH	8'-0"	WIDTH	0.5"		
HEIGHT	2'-6"	RADII	3"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	S	t	r	e	e	t	N	a	m	e	L
SPACE	14.4	21.5	26	30.3	36	41.4	53.1	61	67.2	76.7	67.3
COPY	9	7	0	0	L						
SPACE	6	11.5	17.6	23.8	22.9						
COPY	S	t	L								
SPACE	44	49.3	8.1								
COPY	9	6	0	0	L						
SPACE	66.8	72.7	78.8	85	23.2						
COPY											
SPACE											
COPY											
SPACE											

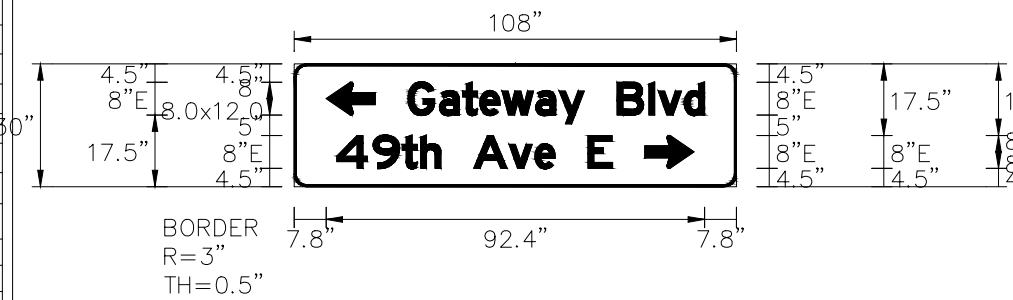
SIGN NAME	J	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER		N/A		
WIDTH	8'-0"	WIDTH	0.5"		
HEIGHT	2'-6"	RADII	3"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	A	r	t	i	s	a	n	L	a	k	e	s	L
SPACE	11.2	20.4	24.3	28.8	31.2	36.8	43	56	62.7	68.9	74.4	80	73.7
COPY	9	6	0	0	L								
SPACE	6	11.9	18	24.2	23.2								
COPY	P	k	w	y	L								
SPACE	38	43.6	47.4	53.4	20.1								
COPY	9	7	0	0	L								
SPACE	67.2	72.7	78.7	85	22.9								
COPY													
SPACE													
COPY													
SPACE													

SIGN NAME	K	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER		N/A		
WIDTH	9'-0"	WIDTH	0.5"		
HEIGHT	2'-6"	RADII	3"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	90	7.8	17.5	8	12
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	G	a	t	e	w	a	y	B	i	v	d	L
SPACE	27.8	35.5	41.1	45.3	50.8	59	64.7	78.8	86.6	88.9	95.2	72.4
COPY	4	9	t	h	A	v	e	E	L			
SPACE	10.4	19.3	26.4	30.9	43.8	52.5	58.8	71.7	67.4			
COPY												
SPACE												
COPY												
SPACE												
COPY												
SPACE												

SIGN NAME	L	QTY	I	SIGN NUMBER	STATION(S)
PANEL	BORDER		N/A		
WIDTH	9'-0"	WIDTH	0.5"		
HEIGHT	2'-6"	RADII	3"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	90	11.4	17.5	8	12
AR_Type D	270	88.1	4.5	8	12
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE	AVERAGE LENGTH	



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	4	9	t	h	A	v	e	E	L			
SPACE	31.4	40.3	47.4	51.9	64.9	73.5	79.8	92.8	67.4			
COPY	G	a	t	e	w	a	y	B	i	v	d	L
SPACE	7.9	15.5	21.1	25.4	30.8	39.1	44.7	58.9	66.7	69	75.3	72.4
COPY												
SPACE												
COPY												
SPACE												

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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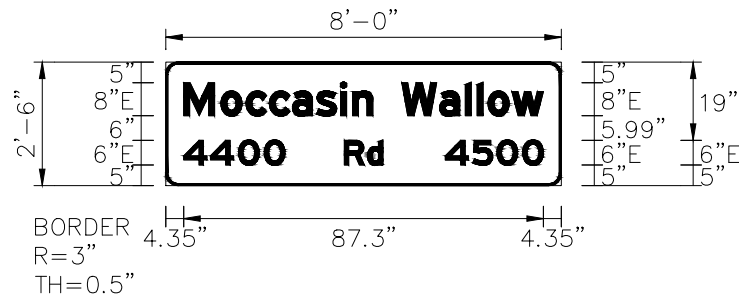
DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
CARDNO
3905 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA 33578
CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

GUIDE SIGN WORKSHEET (3)	SHEET NO. T-61
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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.

SIGN NAME	M	QTY	/	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	8'-0"	WIDTH	0.5"		
HEIGHT	2'-6"	RADII	3"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY	M	o	c	c	a	s	i	n	w	a	l	l	o	w	L
SPACE	4.3	13.4	19.5	25.1	30.7	36.6	42.4	45.3	57.3	66.5	72.7	75.6	78.2	84	87.3
COPY	4	4	0	0	L										
SPACE	4.3	10.8	17.7	23.9	24.6										
COPY	R	d	L												
SPACE	43.3	49	9.4												
COPY	4	5	0	0	L										
SPACE	67.8	74.5	80.4	86.6	23.8										
COPY															
SPACE															
COPY															
SPACE															

SIGN NAME	QTY	SIGN NUMBER	STATION(S)		
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY															
SPACE															
COPY															
SPACE															
COPY															
SPACE															
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SPACE															
COPY															
SPACE															
COPY															
SPACE															

SIGN NAME	QTY	SIGN NUMBER	STATION(S)		
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

SIGN NAME	QTY	SIGN NUMBER	STATION(S)		
PANEL	BORDER				
WIDTH	WIDTH				
HEIGHT	RADII				
LEGEND	COLOR				
COLOR					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE	WATT	VOLTAGE

COPY															
SPACE															
COPY															
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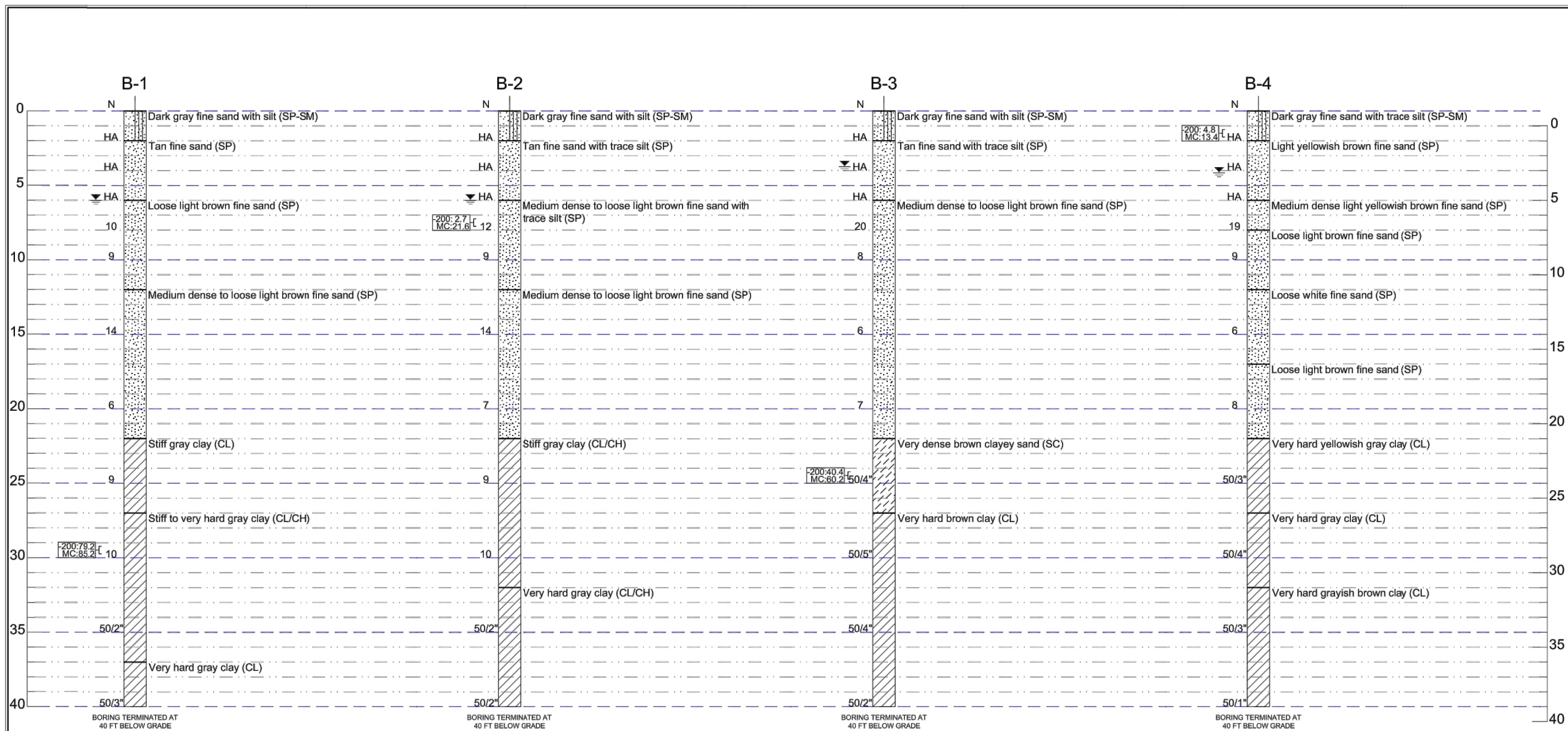
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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DAVID J. ALLEN, P.E.
P.E. LICENSE NUMBER 58540
CARDNO
3905 CRESCENT PARK DRIVE
RIVERVIEW, FLORIDA 33578
CERTIFICATE OF AUTHORIZATION 29915

MANATEE COUNTY	
ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

GUIDE SIGN WORKSHEET (4)	
SHEET NO.	
T-62	

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



LEGEND

[SP] UNIFIED SOIL CLASSIFICATION SYSTEM GROUP SYMBOL (ASTM D2487). BASED ON VISUAL OBSERVATION AND LABORATORY TEST.

N STANDARD PENETRATION RESISTANCE (N-VALUE) IN BLOWS PER FOOT (ASTM D1586)

HA HAND AUGER

GROUND WATER LEVEL MEASURED ON DATE DRILLED

SEASONAL HIGH WATER LEVEL

GNE GROUNDWATER LEVEL NOT ENCOUNTERED

(%) LOSS OF CIRCULATION (%)

-200 FINES PASSING NO. 200 U.S. STANDARD SIEVE (%)

WOH WEIGHT OF HAMMER

50/1" 60 BLOWS FOR 1 INCH

OC ORGANIC CONTENT (%)

MC NATURAL MOISTURE CONTENT (%)

PL PLASTICITY INDEX (%)

LL LIQUID LIMIT (%)

NP NON PLASTIC

UCS UNCONFINED COMPRESSION STRENGTH

CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL			
COARSE-GRAINED SOILS-SANDS		FINES - CLAY AND SILT	
CONSISTENCY DESIGNATION	SPT N(BLOWS/FT)	CONSISTENCY DESIGNATION	SPT N(BLOWS/FT)
VERY LOOSE	0-4	VERY SOFT	0-1
LOOSE	5-10	SOFT	2-3
MEDIUM DENSE	11-30	MEDIUM STIFF	4-7
DENSE	31-50	STIFF	8-15
VERY DENSE	>50	VERY STIFF	16-31
		HARD	32-50
		VERY HARD	>50

UNIVERSAL ENGINEERING SCIENCES
1748 INDEPENDENCE BLVD.
SARASOTA, FL.
941-568-7410

DRAWN FOR	GARDNO
DRILLED BY	NP / CL
DRAWN BY	R.L.D.
DRAWING DATE	12/20/2019
SCALE	NOT TO SCALE

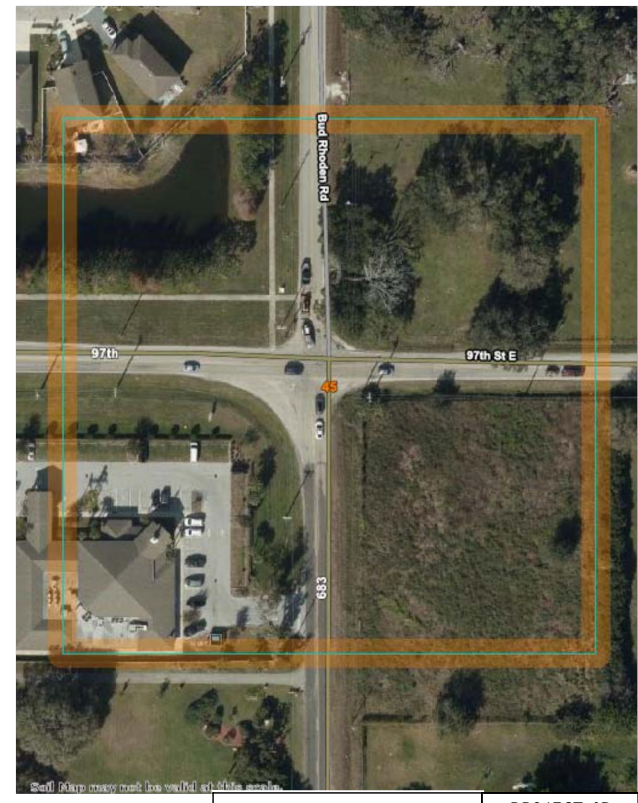
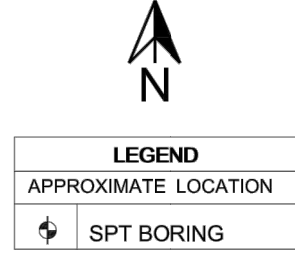
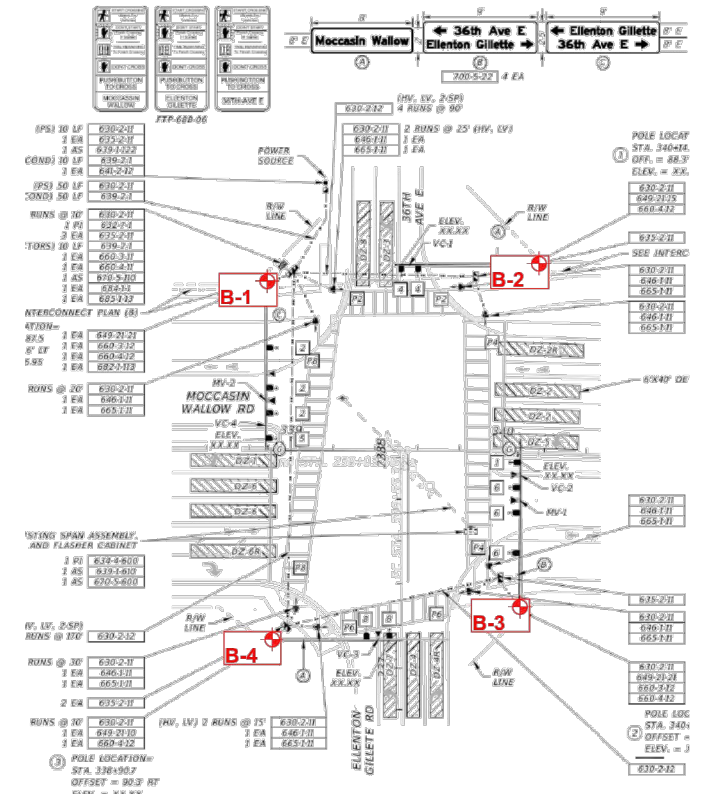
PROJECT NO. 1130.1800187.0000
REPORT NO. 14602

PROPOSED MAST ARMS
MOCCASIN WALLOW ROAD
PALMETTO, FL

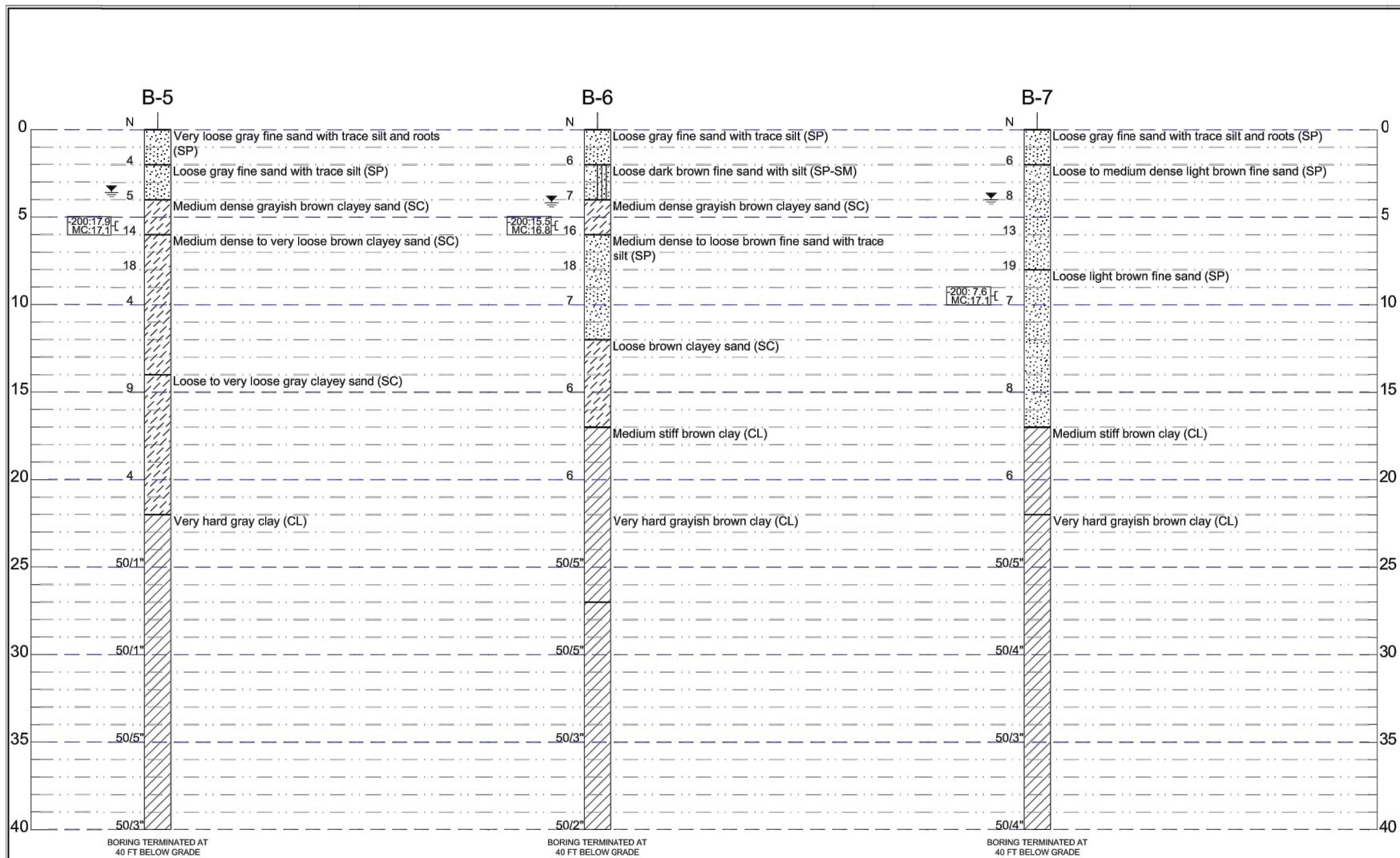
SOIL BORING PROFILES

ALL SOIL BORING TEST ARE APPROXIMATE. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED

SHEET NO. T-63



ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560



LEGEND

[SP] UNIFIED SOIL CLASSIFICATION SYSTEM GROUP SYMBOL (ASTM D2487), BASED ON VISUAL OBSERVATION AND LABORATORY TEST.

N STANDARD PENETRATION RESISTANCE (N-VALUE) IN BLOWS PER FOOT (ASTM D1586)

HA HAND AUGER

GROUND WATER LEVEL MEASURED ON DATE DRILLED

SEASONAL HIGH WATER LEVEL

GROUNDWATER LEVEL NOT ENCOUNTERED

(%) LOSS OF CIRCULATION (%)

-200 FINES PASSING NO. 200 U.S. STANDARD SIEVE (%)

WOH WEIGHT OF HAMMER

50/1" 50 BLOWS FOR 1 INCH

OC ORGANIC CONTENT (%)

MC NATURAL MOISTURE CONTENT (%)

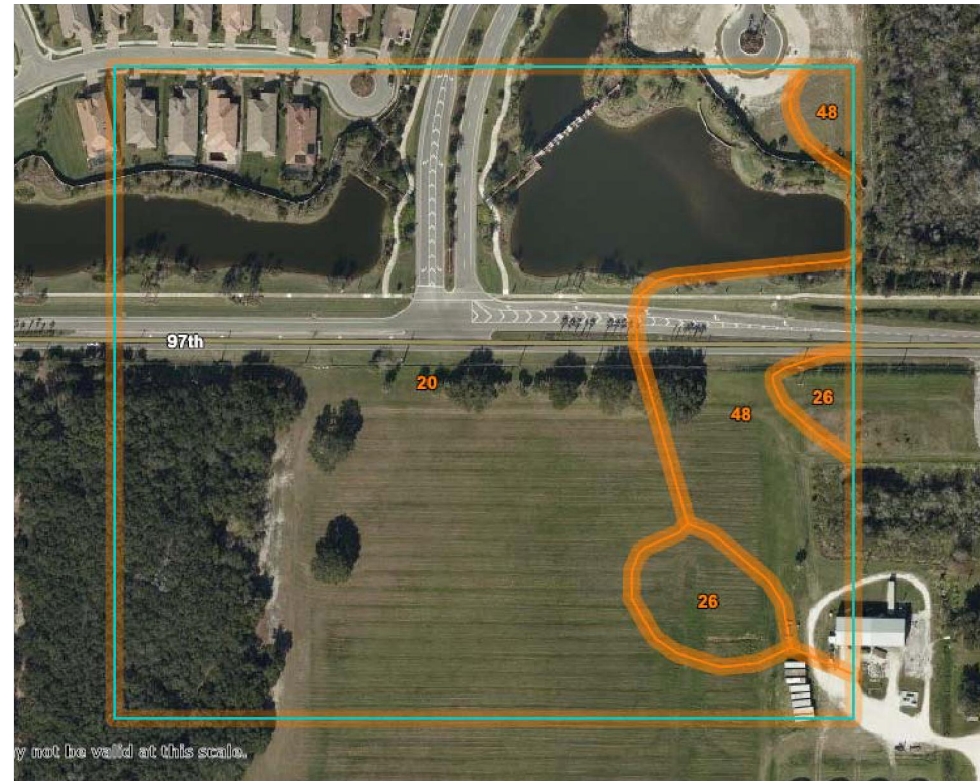
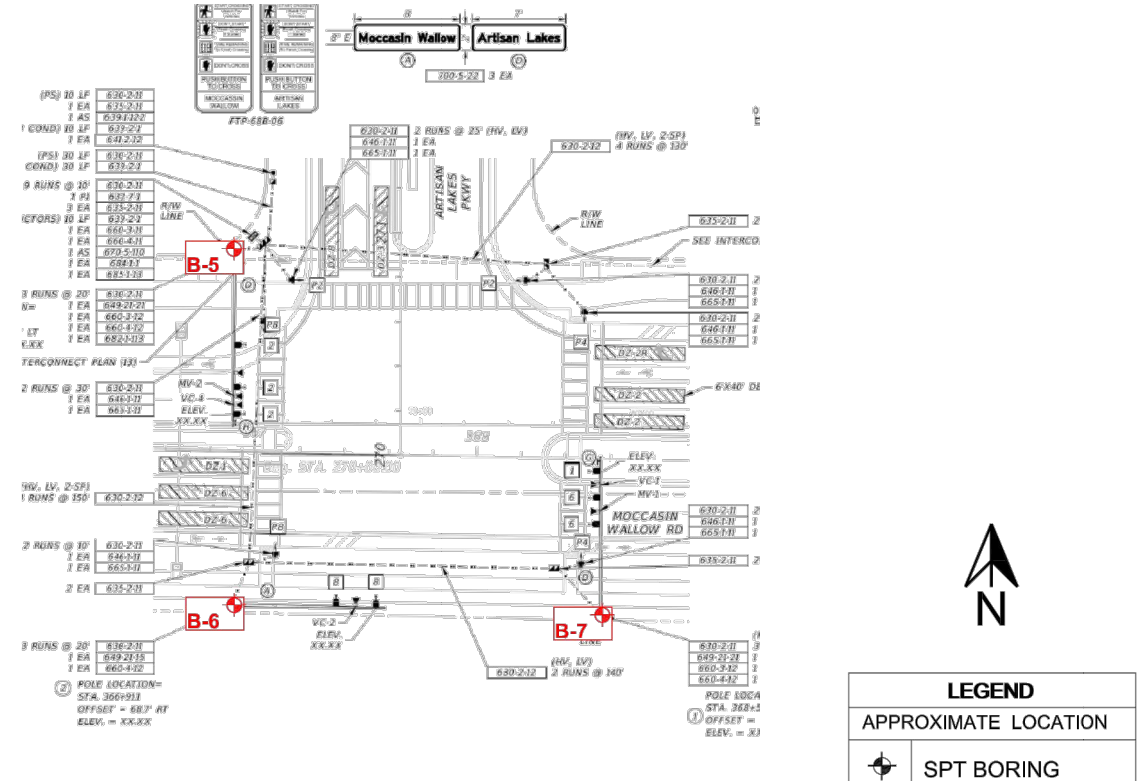
PL PLASTICITY INDEX (%)

LL LIQUID LIMIT (%)

NP NON PLASTIC

UCS UNCONFINED COMPRESSION STRENGTH

CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL			
COARSE-GRAINED SOILS-SANDS		FINES - CLAY AND SILT	
CONSISTENCY DESIGNATION	SPT N(BLOWS/FT)	CONSISTENCY DESIGNATION	SPT N(BLOWS/FT)
VERY LOOSE	0-4	VERY SOFT	0-1
LOOSE	5-10	SOFT	2-3
MEDIUM DENSE	11-30	MEDIUM STIFF	4-7
DENSE	31-50	STIFF	8-15
VERY DENSE	>50	VERY STIFF	16-31
		HARD	32-50
		VERY HARD	>50



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ENGINEERING SCIENCES
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SARASOTA, FL.
941-358-7410

SOIL BORING PROFILES

PROPOSED MAST ARMS
MOCCASIN WALLOW ROAD
PALMETTO, FL

SHEET NO. T-64

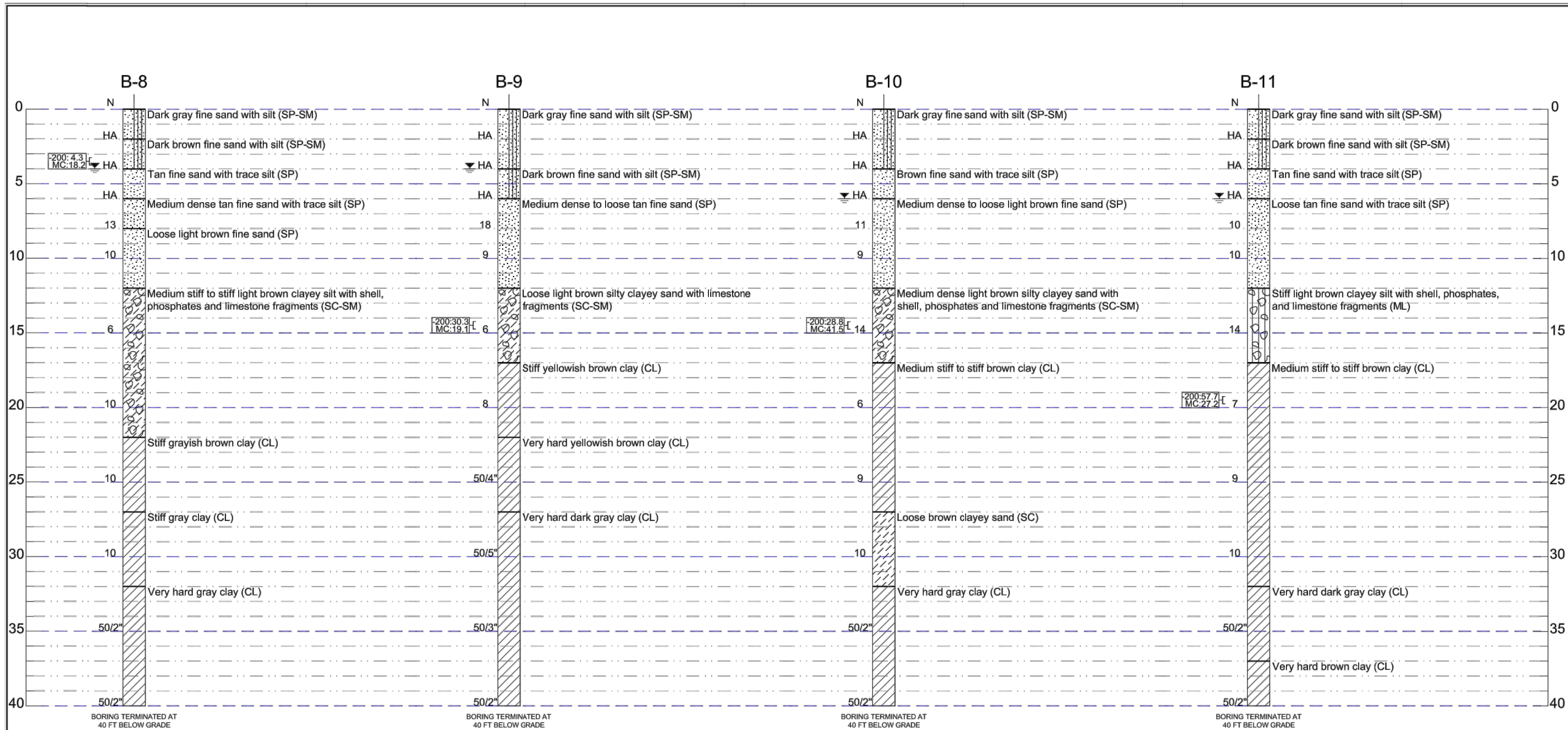
PROJECT NO. 1130.1800187.0000
REPORT NO. 14602

DRAWN FOR: GARDINO
DRILLED BY: NP / CL
DRAWN BY: R.L.D.
DRAWING DATE: 12/20/2019
SCALE: NOT TO SCALE

ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

REPORT OF CORE BORINGS (2)

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



LEGEND

[SP] UNIFIED SOIL CLASSIFICATION SYSTEM GROUP SYMBOL (ASTM D2487), BASED ON VISUAL OBSERVATION AND LABORATORY TEST.

N STANDARD PENETRATION RESISTANCE (N-VALUE) IN BLOWS PER FOOT (ASTM D1586)

HA HAND AUGER

GROUND WATER LEVEL MEASURED ON DATE DRILLED

SEASONAL HIGH WATER LEVEL

GNE GROUNDWATER LEVEL NOT ENCOUNTERED

(%) LOSS OF CIRCULATION (%)

-200 FINES PASSING NO. 200 U.S. STANDARD SIEVE (%)

WOH WEIGHT OF HAMMER

50/1" 50 BLOWS FOR 1 INCH

OC ORGANIC CONTENT (%)

MC NATURAL MOISTURE CONTENT (%)

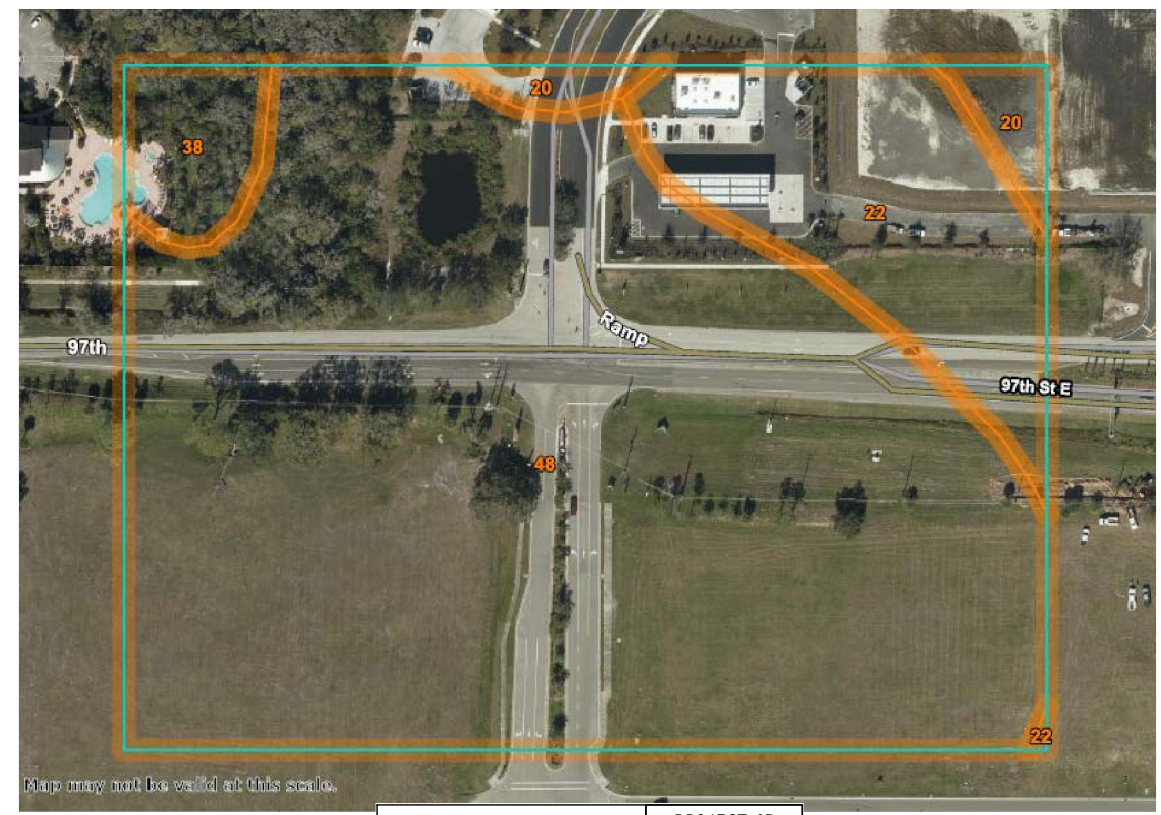
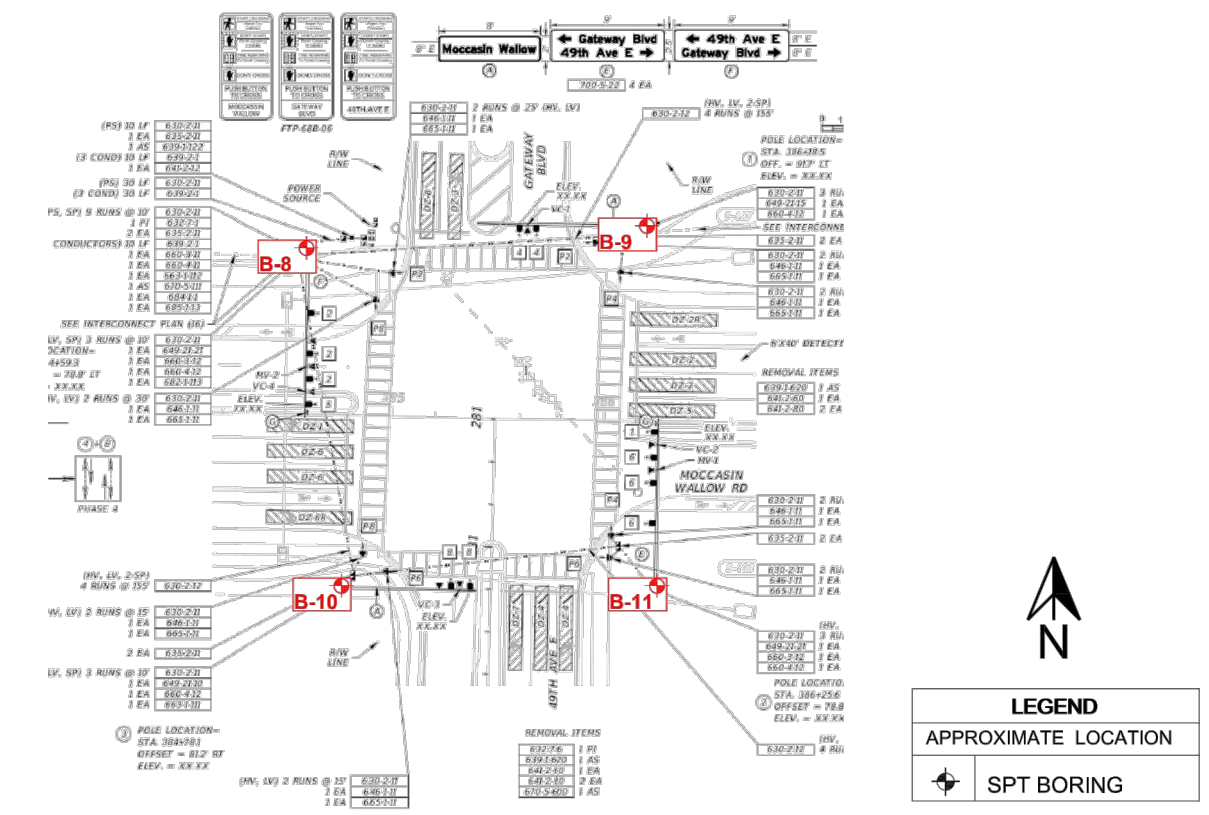
PL PLASTICITY INDEX (%)

LL LIQUID LIMIT (%)

NP NON PLASTIC

UCS UNCONFINED COMPRESSION STRENGTH

CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL			
COARSE-GRAINED SOILS-SANDS		FINES - CLAY AND SILT	
CONSISTENCY DESIGNATION	SPT N(BLOWS/FT)	CONSISTENCY DESIGNATION	SPT N(BLOWS/FT)
VERY LOOSE	0-4	VERY SOFT	0-1
LOOSE	5-10	SOFT	2-3
MEDIUM DENSE	11-30	MEDIUM STIFF	4-7
DENSE	31-50	STIFF	8-15
VERY DENSE	>50	VERY STIFF	16-31
		HARD	32-59
		VERY HARD	>50



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PROPOSED MAST ARMS
MOCCASIN WALLOW ROAD
PALMETTO, FL

SOIL BORING PROFILES
ALL SOIL BORING TEST ARE APPROXIMATE. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED

SHEET NO. T-65

ROAD NO.	PROJECT ID
MOCCASIN WALLOW RD	6092560

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