SIGNALIZATION PERMIT PLANS

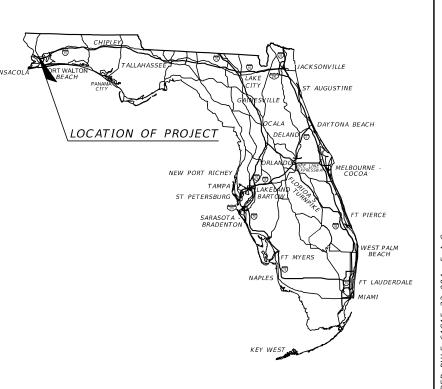
INDEX OF SIGNALIZATION PLANS

SHEET DESCRIPTION KEY SHEET T-2 SIGNATURE SHEET T-3 TABULATION OF QUANTITIES T-4 T-5 GENERAL NOTES SIGNALIZATION PLAN T-6 T-7 MAST ARM TABULATION STANDARD MAST ARM ASSEMBLIES DATA TABLE REPORT OF SIGNAL BORINGS

CR 297A AT CR 97

ESCAMBIA COUNTY (48630)

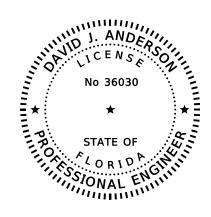
COUNTY ROAD NO. 297A



SIGNALIZATION PLANS ENGINEER OF RECORD

DAVID J. ANDERSON, P.E. P.E. NO.: 36030 HSA CONSULTING GROUP 1284 JACKSON AVENUE CHIPLEY, FL 32428 CONTRACT NUMBER C-9H02 VENDOR NUMBER 59-305-7180 CERTIFICATE OF AUTHORIZATION NO. 8188 PHONE NUMBER 850-638-3100

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YEAR	NO.
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HSA Consulting Group, Inc. 1284 Jackson Ave. Chipley, Florida 32428 (850) 638-3100

E.O.R.: David J. Anderson, P.E. #36030

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

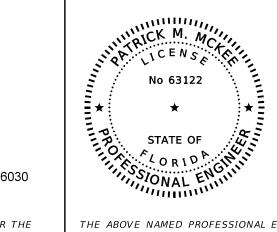
SIGNALIZATION PLANS

SHEET NO. SHEET DESCRIPTION

T-1 KEY SHEET

T-2 SIGNATURE SHEET
T-3 TABULATION OF QUANTITIES

T-4 GENERAL NOTES
T-5 SIGNALIZATION PLAN
T-6 MAST ARM TABULATION



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Kever McKee Engineering 1624 Metropolitan Boulevard, Suite A Tallahassee, FL 32308 (850) 727-5367 Patrick M. McKee, P.E.

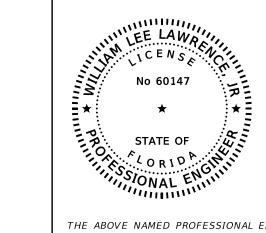
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SIGNALIZATION PLANS

SHEET NO. SHEET DESCRIPTION

T-2 SIGNATURE SHEET

T-7 STANDARD MAST ARM ASSEMBLIES DATA TABLE



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NOVA Enginnering and Enviromental, LLC 104-A Lurton St. Pensacola, FL 32505 (850) 607-7782 William Lee Lawrence, Jr. P.E. #60147

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

SIGNALIZATION PLANS

SHEET NO. SHEET DESCRIPTION

T-2 SIGNATURE SHEET

T-8 REPORT OF SIGNAL BORINGS

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DATE	DESCRIPTION	DATE	DESCRIPTION]
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DAVID J. ANDERSON, P.E.
P.E. LICENSE NUMBER 36030
HSA CONSULTING GROUP, INC.
1284 JACKSON AVENUE
CHIPLEY FL, 32428

ROAD NO. COUNTY FINANCIAL PROJECT ID

CR 297A ESCAMBIA

SIGNATURE SHEET

SHEET NO.

-2

TABULATION OF QUANTITIES

			SHEE	T NO.	TOTAL	THIS	GRA	AND	REF.
PAY ITEM	DESCRIPT ION	UNIT	T	- 5	SH	EET	TO	TAL	SHEET
NO.			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
0630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	540		540				
0630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	410		410				
0632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PΙ	1		1				
0635-2-11	PULL & SPLICE BOX, FURNISH & INSTALL, 13"X24" COVER SIZE	EA	7		7				
0639-1-112	ELECTRICAL POWER SERVICE, FURNISH & INSTALL, OVERHEAD METER PURCHASED BY CONTRACTOR FROM POWER COMPANY	AS	1		1				
0639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	20		20				
0639-3-11	ELECTRICAL SERVICE DISCONNECT, FURNISH & INSTALL, POLE MOUNT	EA	1		1				
0641-2-12	PRESTRESSED CONCRETE POLE, FURNISH & INSTALL, TYPE P-II SERVICE POLE	EA	1		1				
0641-2-80	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- POLE 30' AND GREATER	EA	2		2				
0649-21-3	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 40'	EA	1		1				
0649-21-10	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 60'	EA	1		1				
0650-1-34	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL, POLYCARBONATE, 3 SECTION, 1 WAY	AS	6		6				
0660-3-11	VEHICLE DETECTION SYSTEM - MICROWAVE, FURNISH AND INSTALL CABINET EQUIPMENT	EA	1		1				
0660-3-12	VEHICLE DETECTION SYSTEM - MICROWAVE, FURNISH AND INSTALL ABOVE GROUND EQUIPMENT	EA	2		2				
0660-4-11	VEHICLE DETECTION SYSTEM - VIDEO, FURNISH AND INSTALL CABINET EQUIPMENT	EA	1		1				
0660-4-12	VEHICLE DETECTION SYSTEM - VIDEO, FURNISH AND INSTALL, ABOVE GROUND EQUIPMENT	EA	2		2				
0670-5-111	TRAFFIC SIGNAL CONTROLLER ASSEMBLY, FURNISH & INSTALL, NEMA, 1 PREEMPTION	AS	1		1				
0682-1-113	ITS CCTV CAMERA, FURNISH & INSTALL, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA	1		1				
0684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSATLL	EA	1		1				
0684-6-12	WIRELESS COMMUNICATION DEVICE, FURNISH & INSTALL, ETHERNET SUBSCRIBER UNIT	EA	1		1				
0685-1-14	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, ONLINE/DOUBLE CONVERSION WITH CABINET	EA	1		1				
0700 - 1 - 11	SINGLE POST SIGN, FURNISH & INSTALL, GROUND MOUNT, UP TO 12 SF	AS	3		3				
0700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EΑ	3		3				
0715-5-32	LUMINAIRE & BRACKET ARM- GALV STEEL FURNISH & INSTALL NEW LUMINAIRE AND ARM ON NEW/EXISTING POLE	EΑ	2		2				

PAY ITEM NOTES

- 1. 670-5-111 TRAFFIC SIGNAL CONTROLLER WITH CABINET WITH APPROPRIATE EXTENSION TO RAISE CABINET 4" ABOVE CENTERLINE ROAD ELEVATION AND SHALL CONSIST OF:

 a. TRANSPORTATION CONTROL SYSTEMS (TCS) NEMA TS2 SIZE 6 DOUBLE DOOR CABINET.
 b. McCAIN ATC EX2 TS2 TYPE 2 NEMA CONTROLLER.

 - c. MMU2-16LE (ip) SMART MONITOR.
- 2. 660-3-11, 660-3-12 MS SEDCO.
 - a. TC-CK1-VMS, MICROWAVE-BASED MOTION AND PRESENCE SENSOR FOR ADVANCE DETECTION MOTION SENSOR AND CARDS.
 - b. SUPPLEMENTAL INTERFACE HARDWARE, CABLING AND OTHER SYSTEM COMPONENTS AND PROGRAMMING ARE INCIDENTAL TO DETECTION SYSTEM.
- 3. 660-4-11 AND 660-4-12 SHALL CONSIST OF MIOVISION SMART SENSE WITH (2) SMARTVIEW 360 CAMERA HARDWARE WITH CONTINUOUS COUNTS AND ATSPMS (VEHICLES, CYCLISTS, PEDESTRIAN DETECTION) FOR ONE YEAR.
 - a. SHELF MOUNTED VIDEO PROCESSOR TO BE LOCATED IN CONTROLLER CABINET.
 - b. SUPPLEMENTAL INTERFACE HARDWARE, CABLING AND OTHER SYSTEM COMPONENTS AND PROGRAMMING ARE INCIDENTAL TO VIDEO PROCESSOR.
 - c. WIRELESS CELLULAR COMMUNICATION DEVICE INCLUDED MIOVISION SMARTLINK.
- 4. 685-1-14 UNINTERRUPTABLE POWER SERVICE TO CONSIST OF:
 - a. MYERS MP 2000E WITH SNMP CARD WIRED FOR LOW BATTERY ALERTS
 - b. SEPERATE PIGGY CABINET ATTACHED TO TYPE 6 CABINET.
 - c. WIRING UPS TO SIGNAL CABINET FOR ALERTS.
- 5. 639-3-11 A SEPARATE ELECTRICAL SERVICE DISCONNECT, PULL BOX AND CONDUIT RUN TO MAST ARM #2 WILL PROVIDE POWER FOR THE LUMINAIRE MOUNTED ON THE POLE.
- 6. 684-6-12 SHALL CONSIST OF CRADLEPOINT COR IBR900 MOBILE ROUTER WITH NETCLOUD MANAGER, ITS CABINET, APPROVED CELLULAR ANTENNAE, POWER STRIP, TERMINAL BLOCK AND ASSOCIATED WIRING FOR ITS CCTV CAMERA AND ITS CABINET SHALL BE MINIMUM 16" X 12" HEIGHT X 9" DEEP
- 7. 682-1-113 SHALL CONSIST OF AXIS COMMUNICATIONS Q6075 E/1080P/ PTZ(CCTV CAMERA)

PAY ITEM NOTES CONTINUES

- 8. 684-1-1 SHALL CONSIST OF ADVANTECH ETHERNET SWITCH, EKI 7712G-2FVP.
- 9. 700-5-22 UNITS TO CONSIST OF TRANSPORTATION CONTROL SYSTEMS (TCS) BRIGHT LIGHT EDGE LIT. STREET NAME SIGNS MOUNTED TO THE MAST ARMS USING STANDARD PELCO
- 10. CONTRACTOR TO SUBMIT FDOT FORM 750-01-01 TO ESCAMBIA COUNTY TRAFFIC ENGINEER WITH SHOP DRAWING SUBMITTAL.
- 11. 641-2-80 POLE REMOVAL INCLUDES REMOVAL OF EXISTING HARDWARE INCLUDING BEACON, CABLE, WIRING AND OTHER MISC. HARDWARE AND COMPONENTS.

LIGHTING NOTES 715-5-32

- 1. THE LUMINAIRES WILL BE INSTALLED ON MAST ARMS IN ACCORDANCE WITH INDEX 649-031 SHEET 5 OF 6.
- 2. THE PROPOSED 264 WATT LIGHT-EMITTING DIODE LUMINAIRE TO ATTACH TO NEW SIGNAL MAST ARMS.
- 3. DESIGN FOR MEDIUM TYPE IV DISTRIBUTION. SINGLE 15' ARMS WITH 0 DEGREES TILT. MOUNTING HEIGHT 37.5'.
- 4. 4000K, CCT, USE AMERICAN ELECTRIC CURVE ATB2 P604 R4 4K.IES OR EQUAL.
- 5. LUMINAIRE AND ARM TO BE INSTALLED PERPENDICULAR TO CR 297A.

	REV	SIONS		DAVID J. ANDERSON, P.E.						
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NUMBER 36030		ESCAMBIA CO	UNTY			
				HSA CONSULTING GROUP, INC.						
				1284 JACKSON AVENUE	ROAD NO.	COUNTY	FINANCIAL PROJECT			
				CHIPLEY FL, 32428	CR 297A	ESCAMBIA				

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TABULATION OF QUANTITIES

SHEET NO.

T-3

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- THE CONTRACTOR SHALL NOTIFY ALL UTILITIES THROUGH ESCAMBIA COUNTY AT LEAST TWO BUSINESS DAYS IN ADVANCE OF THE ACTUAL BEGINNING OF UNDERGROUND CONSTRUCTION ON THE JOB SITE. PLEASE CONTACT MS. JOHNNY PETTIGREW AT 850-595-3484 AND PROVIDE A DETAILED DESCRIPTION OF THE WORK TO BE ACCOMPLISHED.
- AS DIRECTED BY THE PROJECT ADMINISTRATOR, THE CONTRACTOR SHALL ADJUST CONDUIT AND PULL BOXES IN ORDER TO AVOID ANY POSSIBLE CONFLICTS WITH UNDERGROUND UTILITIES.
- THE CONTRACTOR WHO IS ENGAGED IN INSTALLING OR MAINTAINING TRAFFIC SIGNALS WITHIN DISTRICT THREE SHALL HAVE ALL WORK PERFORMED UNDER THE SUPERVISION OF A TECHNICIAN CERTIFIED BY THE INTERNATIONAL MUNICIPAL SIGNAL ORGANIZATION (IMSA) AS A LEVEL II. TRAFFIC SIGNALS TECHNICIAN. THE TECHNICIAN SHALL REPORT TO THE JOB SITE WITHIN FOUR HOURS OF NOTIFICATION TO THE WORK SITE SUPERVISOR TO CORRECT ANY PROBLEM OR EMERGENCY THAT MAY ARISE. IN ADDITION, A TECHNICIAN CERTIFIED AS AN I.M.S.A. LEVEL I TRAFFIC SIGNAL TECHNICIAN SHALL BE PRESENT ON THE JOB SITE AT ALL TIMES THE TRAFFIC SIGNALIZATION WORK IS IN PROGRESS.
- LANE CLOSURES ARE PROHIBITED ON CR 297A FROM 6:00 PM.
- SCHEDULE AN INSPECTION THROUGH THE ESCAMBIA COUNTY, TRANSPORTATION & TRAFFIC OPERATIONS OFFICE (JIM HAGON 850-595-3404) TWO WEEKS BEFORE PLACING A NEW TRAFFIC SIGNAL INSTALLATION IN NORMAL OPERATION MODE. AN INSPECTION IS NOT REQUIRED PRIOR TO PLACING THE SIGNAL IN FLASHING MODE.
- THE PAY ITEM FOR ELECTRICAL POWER SERVICE SHALL INCLUDE THE COST OF ANY PERMITS AND INITIAL CONNECTION FEES THAT MAY BE ASSESSED BY THE POWER COMPANY OR LOCAL GOVERNMENT, WHENEVER APPLICABLE. THIS APPLIES TO OVERHEAD AND UNDERGROUND SERVICES.
- THE POWER SERVICE AT DISCONNECT SHALL BE METERED PER FLORIDA POWER & LIGHT.
- POLE AND FOUNDATION ELEVATION IS CRITICAL DUE TO THE USE OF HORIZONTAL SIGNAL HEADS IN THE ESCAMBIA COUNTY, MOUNTING SIGNAL HEADS VERTICALLY OR BELOW THE MAST ARM TO REMEDY ELEVATION PROBLEMS IS UNACCEPTABLE.
- HAND-DIG THE FIRST 4 FEET OF POLE FOUNDATIONS.

DESCRIPTION

- THE PAY ITEM FOR VEHICULAR SIGNAL ASSEMBLIES SHALL INCLUDE THE COST OF A HORIZONTAL ARTICULATING BRACKET FOR ALL PROJECTS UTILIZING MAST ARM OR MONOTUBE SUPPORTS.
- INSTALL CONDUIT ACCORDING TO THE FDOT STANDARD PLANS INDEX 630-001 AND FDOT SPECIFICATIONS 630. UTILIZE THIS METHOD FOR ALL APPLICATIONS IN THE DISTRICT, WITHOUT REGARD TO THE PRESENCE OF CURB AND GUTTER.
- SIGNAL CABLE SHALL ONLY BE INSTALLED IN CONTINUOUS LENGTHS BETWEEN THE OVERHEAD AND CONTROLLER CABINET. SPLICING OF CABLE ONLY PERMITTED IN THE SIGNAL/PEDESTRIAN HEADS, TRANSFORMER BASES OF PEDESTRIAN PEDESTALS, STRUCTURE HAND HOLES FOR MAST ARM INSTALLATIONS, AND STRAIN POLE HAND HOLES AND/OR DISCONNECT HANGERS FOR SPAN-WIRE INSTALLATIONS. NO UNJACKETED INDIVIDUAL CONDUCTORS SHALL BE ALLOWED WITHIN THESE COMPONENTS OF THE TRAFFIC SIGNAL INSTALLATION: CONDUITS, PULL BOXES, MAST ARM UPRIGHTS, STRAIN POLES, PEDESTRIAN PEDESTAL POLES, PEDESTRIAN MOUNTING BRACKETS OR ASTRO-BRACKET GUSSET TUBING. NO EXCEPTIONS.
- BASKET TYPE SINGLE EYE SPLIT MESH ROD CLOSING CABLE GRIPS REQUIRED FOR SIGNAL CABLE STRAIN RELIEF AT "J" HOOK OF FACH UPRIGHT
- CONTROLLER CABINET SHALL BE FULLY WIRED AND FURNISHED WITH ALL EQUIPMENT NECESSARY TO RUN THE CONTROLLER INDICATED IN THE PLANS. TIMINGS ARE INITIAL AND ADJUSTMENTS CAN BE MADE BY THE COUNTY AS APPROVED BY THE
- CONSTRUCTION DEBRIS GENERATED BY THE CONTRACTOR DURING CONSTRUCTION OF THIS SIGNALIZED INTERSECTION SHALL BE REMOVED BY THE CONTRACTOR FROM THE ESCAMBIA COUNTY RIGHT-OF-WAY AT THE END OF
- PULL BOXES SHALL BE INSTALLED A MINIMUM OF 3' FROM THE EDGE OF THE PAVEMENT.
- 17. CONTROLLER CABINET DOOR SHALL OPEN TOWARDS ROW LINE CONSTRUCT CONCRETE PAD TO PROVIDE LEVEL SURFACE FOR MAINTENANCE ACTIVITIES. ROUTE TO CONCRETE PAD TO HAVE NO STEEPER SHAPE THAN 1:6 WITHIN 5' AND 1:4 SLOPES WITHIN 10'.

DESCRIPTION

SPECIAL NOTES:

1. UTILITY AGENCY OWNERS

COMPANY AT&T FLORIDA FLORIDA POWER & LIGHT ENERGY SERVICE OF PENSACOLA (NATURAL GAS) ECUA (WATER/SEWER) COX CABLE ESCAMBIA COUNTY TRAFFIC SIGNAL FLORIDA POWER AND LIGHT

CONTACT PHONE TOM MANNING (850) 463-5176 (850) 777-9476 DEREK GILMORE DIANE MOORE (850) 474-5319 JACOB KEARLEY (850) 969-5823 TROY YOUNG (850) 857-4551 JOHNNY PETTIGREW (850) 595-3484 DEREK GILMORE (850) 777-9476

- ESCAMBIA COUNTY IS THE MAINTAINING AGENCY.
- ESCAMBIA COUNTY IS RESPONSIBLE FOR THE POWER BILL.
- PROVIDE NEW TRAFFIC SIGNAL SYSTEM EQUIPMENT AND MATERIALS THAT IS FULLY COMPATIBLE AND INTER-OPERABLE WITH EQUIPMENT CURRENTLY INSTALLED AND OPERATIONAL AS PART OF THE ESCAMBIA COUNTY ADVANCED TRANSPORTATION MANAGEMENT SYSTEM (ATMS). a. IF NECESSARY. CONTACT THE COUNTY TRAFFIC ENGINEER AT 850-595-3404 FOR EQUIPMENT AND

MATERIAL SPECIFICATION. INCOMPATIBLE EQUIPMENT AND MATERIALS WILLNOT BE ACCEPTED.

- THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDE THOSE DESIGNATED VV, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY THE VERIFIED LOCATIONS/ ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
- GENERATOR HARNESS ASSEMBLY: THE PAY ITEM FOR THE CONTROLLER CABINET ASSEMBLY SHALL INCLUDE ALL WORK AND MATERIALS NECESSSARY FOR THE INSTALLATION OF A COMPLETE GENERATOR HARNESS ASSEMBLY WITH EGRESS PORT, WHOSE DESIGN HAS BEEN STANDARDIZED THROUGHOUT DISTRICT THREE. THE CONTRACTOR SHALL VISIT AN EXISTING INTERSECTION WHERE SAID STANDARDIZED HARNESS IS INSTALLED IN ORDER TO VERIFY NECESSARY EQUIPMENT. DETAILS RELATED TO THE STANDARDIZED GENERATOR HARNESS INSTALLATION ARE AS RECESSARY EQUIPMENT. DETAILS RELATED TO THE STANDARDIZED GENERATOR HARNESS INSTALLATION ARE AS FOLLOWS: A TOTAL OF TWENTY-FIVE (25) FEET OF TYPE "SEOW" OR "SO" 10-3 AWG COPPER CABLE SHALL BE PROVIDED. A MALE PLUG (LEVITON # 5266-C, 5-15P) SHALL BE ATTACHED TO TWENTY-THREE (23) FEET OF CABLE CONNECTED INTO THE CONTROLLER CABINET TERMINAL STRIP. A FEMALE CONNECTOR (LEVITON, PART # 5369-C, 5-20R) SHALL BE ATTACHED TO TWO (2) FEET OF "SO" CABLE SPLICED INTO THE # 6 AWG ELECTRICAL SERVICE WIRE. THREE INSULATED MECHNICAL OR COMPRESSION CLAMPS (NO SPLIT BOLTS OR WIRE NUTS) FOR COPPER WIRE SHALL BE UTILIZED TO SPLICE CABLE TO ELECTRICAL SERVICE WIRE. A VERTICAL MOUNT, SELF-CLOSING, METALLIC, WEATHER-PROOF COVER AND GASKET SHALL BE PROVIDED AS AN EGRESS PORT, WHICH SHALL HAVE SUFFICIENT ROOM FOR THE MALE PLUG TO EXIT AND ENTER FOR TEMPORARY CONNECTOR TO EMERGENCY GENERATOR.

TRAFFIC SIGNAL LEGEND

MA-1 REQUIRED MAST ARM MAST ARM NUMBER

(•) REQUIRED MAST ARM POLE

(2) MAST ARM POLE NUMBER

→ REQUIRED PEDESTRIAN SIGNAL HEAD

SIGNAL HEAD PHASE NUMBER

SIGN IDENTIFICATION [-1] REQUIRED INDUCTIVE LOOPS

REQ. POWER SERVICE POLE

■→ REQ. VEHICLE SIGNAL HEAD

MICROWAVE VEHICLE DETECTION

VIDEO DETECTION CAMERA

CCTV CAMERA

☑ REQUIRED PULL BOX

PB-1 PULL BOX NUMBER

— • — REQ. UNDERGROUND CONDUIT

— ● ● CONDUIT BORING UNDER ROADWAY

FREQUIRED SIGN OVER HEAD

• PEDESTAL POLE

PP-2 PEDESTRIAN POLE NUMBER

← REQ. PED PUSH BUTTON ASSY. WITH SIGN ONLY

REQ. PED PUSH BUTTON ASSY. WITH SIGN AND POLE

PEDESTRIAN SIGNAL PHASE NUMBER

ESCAMBIA

CR 297A

ESCAMBIA COUNTY ROAD NO COUNTY FINANCIAL PROJECT ID

GENERAL NOTES

SHFFT NO.

T-4

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REVISIONS

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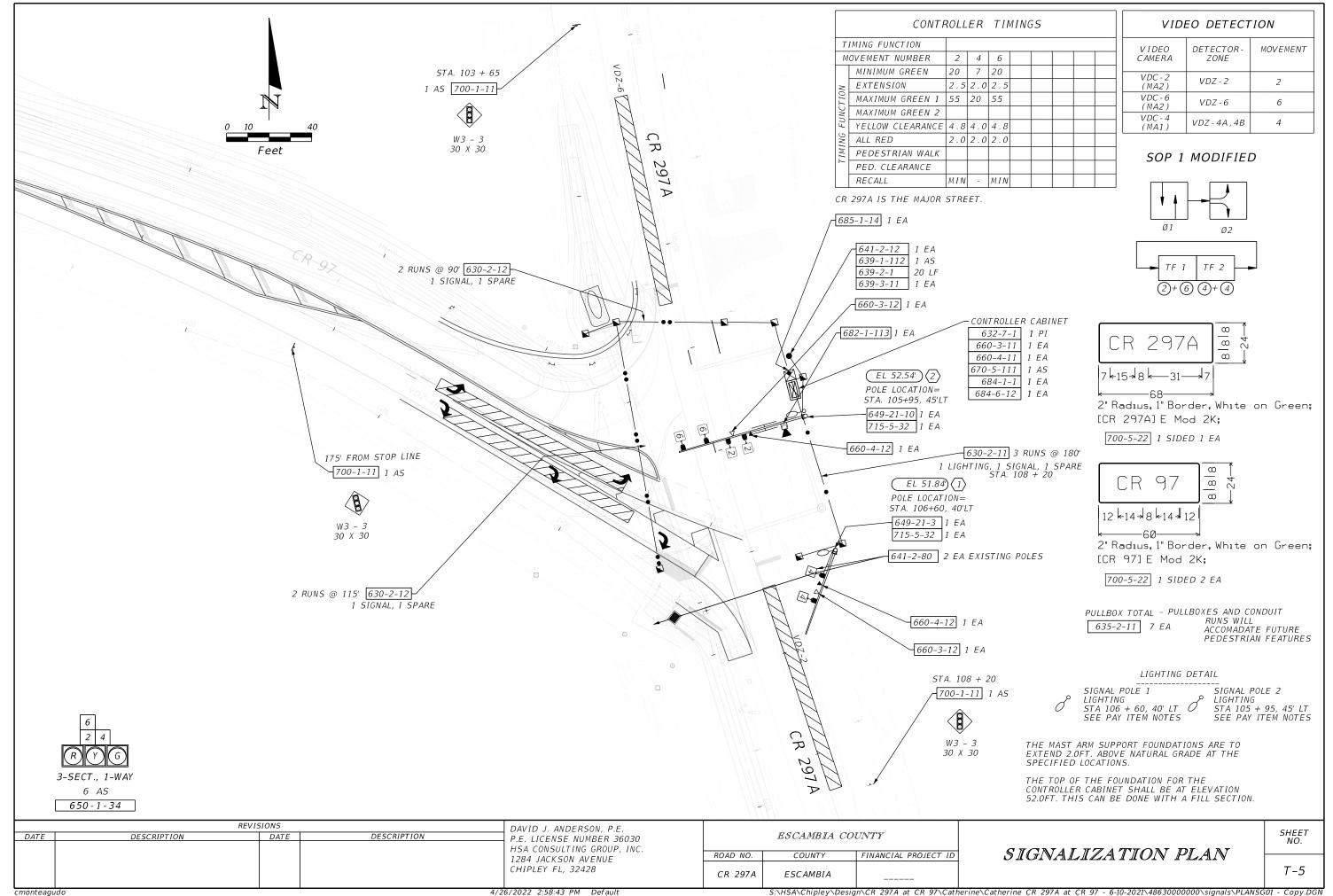
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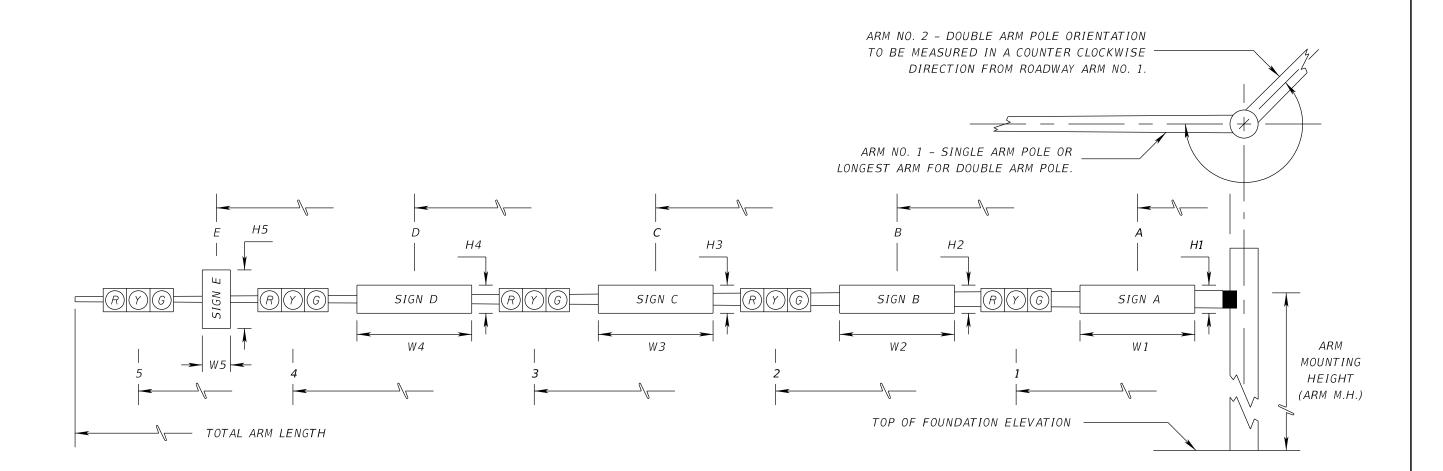
DAVID J. ANDERSON, P.E.

P.E. LICENSE NUMBER 36030

HSA CONSULTING GROUP, INC.

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			ELEVATION	NO.			Y/N	Y/N	1	*	2	*	3	*	4	*	5	* L	.ENGTH		ARMS	Α	H1	W 1	В	H2	W2	С	Н3	W3	D F	4 W4	1 E	H5		
1	5	106+60, 40.0' LT	51.84'	1	52.75'	Н	Y	Ν	10	3	25	3							40.0	20.0		12	2	5									\Box		GAL	LVANIZED
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	REVIS	SIONS		DAVID J. ANDERSON, P.E.				
DATE	DESCRIPTION	DATE	DESCRIPTION	P.E. LICENSE NUMBER 36030				
				HSA CONSULTING GROUP, INC. 1284 JACKSON AVENUE CHIPLEY FL, 32428				

	ESCAMBIA COUNTY										
ı	ROAD NO.	COUNTY	FINANCIAL PROJECT ID								
	CR 297A	ESCAMBIA									

MAST ARM TABULATION

SHEET NO. T-6

NOTES:

- 1. Work with Index 649-030 and 649-031.
- 2. Design wind Speed = 170mph

FOUNDATION NOTES:

- 1. Design based on borings taken November 20, 2019 sealed by NOVA Engineering and Environmental LLC.
- 2. Foundations were designed in accordance with the following values obtained from the geotechnical report:

BORING B-1 (POLE ID NO. 1) Layer 1: Embedment depth range <7 ft. $Soil\ Type = Sand$ Soil Layer Thickness = 7 ft. Angle of Internal Friction = 29' Soil Weight = 120 pcf (unsubmerged)

Layer 2: Embedment depth range 7 ft. to 9 ft. $Soil\ Type = Sand$ Soil Layer Thickness = 2 ft Angle of internal Friction = 29' Soil Weight = 110 pcf (unsubmerged)

Layer 3: embedment depth range 9 ft. to 11 ft. Soil Type = Sand Soil Layer Thickness = 2 ft.Angle of Internal Friction = 29' Soil Weight = 50 pcf (submerged)

Layer 4: Embedment depth range 11ft. to 14ft. Soil Type = Sand Soil Layer Thickness = 3ft. Angle of Internal Friction = 29' Soil Weight = 60 pcf (Submerged)

Layer 5: Embodement depth range 14 ft. to 21 ft. Soil Type = Sand Soil Layer Thickness = 7 ft. Angle of Internal Friction = 31' Soil Weight = 50 pcf (submerged)

Design Water Table is 10 ft. below surface.

	IDARDS MAST MBLIES DATA		TABLE DATE 06-30-21
STRUCTURE ID NUMBERS	DESIGNATION	ARM M.H. (ft)	DRILLED SHAFT ID
POLE 1	A40/S - P2/S/L	20	DS/15/4.5
POLE 2	A60/H/S-P4/S/L	20	DS/16/5

BORING B-2 (POLE ID NO. 2) Layer 1: Embedment depth range <6 ft. Soil Type = Sand Soil Layer Thickness = 6 ft. Angle of Internal Friction = 29' Soil Weight = 115 pcf (unsubmerged)

Layer 2: Embedment depth range 6 ft. to 7 ft. Soil Type = Sand Soil Layer Thickness = 1 ft Angle of internal Friction = 29' Soil Weight = 110 pcf (unsubmerged)

Layer 3: embedment depth range 7 ft. to 11 ft. Soil Type = Sand Soil Layer Thickness = 4 ft. Angle of Internal Friction = 33'Soil Weight = 50 pcf (submerged)

Layer 4: Embedment depth range 11 ft. to 25 ft. Soil Type = Sand Soil Layer Thickness = 14ft. Angle of Internal Friction = 20' Soil Weight = 55 pcf (Submerged)

Design Water Table is 7 ft. below surface.

CR 297A

ESCAMBIA COUNTY FINANCIAL PROJECT ID ROAD NO. COUNTY **ESCAMBIA**

MAST ARM ASSEMBLIES DATA TABLE

T-7

REVISIONS DESCRIPTION

PATRICK M. MCKEE, P.E. P.E. LICENSE NUMBER: 63122 KEVER MAKEE ENGINEERING 1624 METROPOLITAN BLVD. SUITE A TALLAHASSEE, FL 32308



KEY TO BORING LOGS

		n 1			=
sy	MBOLS AND ABBREVIATIONS		1	JNIFIED	S
SYMBOL	DESCRIPTION			MAJOR DIVI	8
N-Value	No. of Blows of a 140-lb, Weight Falling 30 Inches Required to Drive a Standard Spoon 1 Foot		.ecaja	GRAVELS	
WOR	Weight of Drill Rods	Ш	300	50% or more of	l
WOH	Weight of Drill Rods and Hammer	Ш	88	fraction	Ì
	Sample from Auger Cuttings	Ш	OARSE-GRAINED SOLLS	retained on No. 4 sieve	
7	Standard Penetration Test Sample		B-GRA shed or	SANDS	İ
Ö	Thin-wall Shelby Tube Sample (Undisturbed Sampler Used)		0.8	More than 50% of sparse	ļ
% REC	Percent Core Recovery from Rock Core Drilling	Ш	Nore than	passes No.	l
RQD	Rock Quality Designation	Ш	ŝ	4 sleve	l
\mathbf{V}	Stabilized Groundwater Level				1
∇	Seasonal High Groundwater Level (also referred to as the W.S.W.T.)		SOLS No. 200 sleve*	SILTS A Liqu 80%	ú
NE	Not Encountered	Ш	85		
GNE	Groundwater Not Encountered	Ш	S 2 Ω 2		-
BT	Boring Terminated	Ш	2 8 2 8		
-200 (%)	Fines Content or % Passing No. 200 Sieve	Ш	FINE-GRAINED S		
MC (%)	Moisture Content	Ш	8 1	SILTS A	ui
LL	Liquid Limit (Atterberg Limits Test)		% 86	greater	
PI	Plasticity Index (Atterberg Limits Test)				
к	Coefficient of Permeability		Warm	on the mate	
Org. Cont.	Organic Content		" Use	dual symbol 6 but less tha	0
G.S. Elevation	Ground Surface Elevation				

	MAJOR DIVIS	SIONE	GROUP SYMBOLS	TYPICAL NAMES
*	GRAVELS	CLEAN	GW	Well-graded gravids and gravel- sand motures, little or no fines
200 sleve*	50% or more of coarse	GRAVELS	GP	Poorly graded gravels and grave-sand matures, little or no lines:
COARSE-GRAINED SOLLS 50% retained on the the No.:	fraction retained on	GRAVELS	GM	Sitty grave's and gover-hand- sit mistures
E S	No. 4 sieve	WITH FINES	GC	Clayery growers and gravet- sand-clay minutes
SE-GR.	SANDS	CLEAN SANDS	SW**	Well-graded sands and gravelly sands, little or no fines
00 AR	More than 50% of	5% or less passing No. 203 sieve	SP**	Poorty preded sands and gravely sands, little or no fines
More than 6	tection passes No.	SANDS with 12% or more	SM**	Sity sands, sand-sit michaes
	4 sleve	perssing No. 200 sieve	9C**	Craye yeards, send-day mixtures
			ML	Inorpanio sits, very fine sends, reck flour, sitty or clayey fine sends
*	Liqu	ND CLAYS id limit or less	CL	hongoricallay; offew to mindampholicity, gowidly days, sondy days, wen days
5 20 ES			OL	Organic sirts and organic sitty (days of law pharticity
FINE-GRAINED SOLLS more passes the No. 200 aleve"			MH	Integralicalis, micratorial or democratus fine sands or with indirect calls.
FINE P		ND CLAYS	СН	Inorganic days on days of high placticity, full days
50% or	greater	then 50%	ОН	Organic clays of medium to high plasticity
			PT	Pool, muck and other highly presnic soils

RELATIVE DENSITY

(Sends and Grevels)
Very loose — Less than 4 Blow/Foot
Loose — 4 to 10 Blows/Foot
Medium Dense — 11 to 30 Blows/Foot
Dense — 31 to 50 Blows/Foot
Very Dense — More than 50 Blows/Foot

CONSISTENCY

(Sits and Clay)
Very Soft — Less than 2 Blows/Foot
Soft — 2 to 4 Blows/Foot
Medium Stiff — 5 to 8 Blows/Foot
Stiff — 9 to 15 Blows/Foot
Stiff — 16 to 30 Blows/Foot
Hard — More than 30 Blows/Foot

RELATIVE HARDNESS

(Limestone) Soft = 100 Blows for more than 2 inches Hard = 100 Blows for less than 2 inches

MODIFIERS

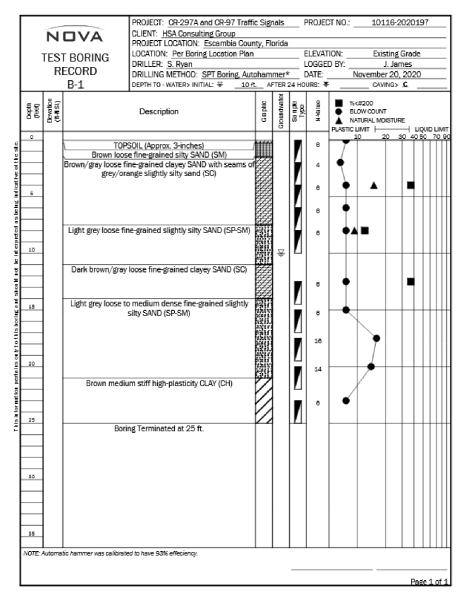
These modifiers Provide Our Estimate of the Amount of Minor Constituents (Sitt or Clay Size Particles) in the Soil Sample Trace – 5% or less:

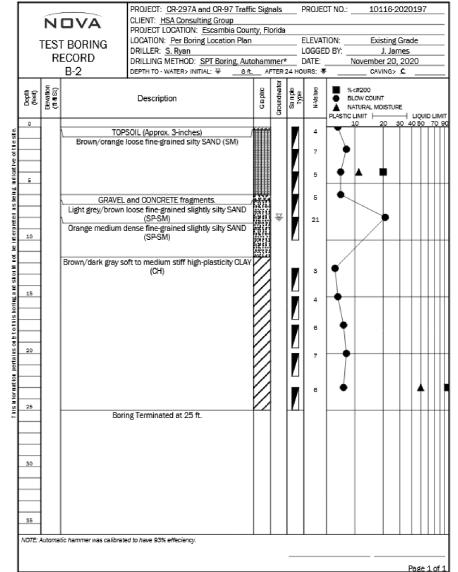
With Sit or With Clay – 5% ho 11% Sitty or Clay – 12% ho 11% Sitty or Clay – 12% ho 25% Vary Sitty or Very Clayey – 31% to 50%

ese Modifiers Provide Our Estimate of the Amount of Organic Components in the Soil Sample Trate - Lass than 5% Few - 3% to 4% Some - 5% to 8% Many - Greater han 5%

These Modifiers Provide Our Estimate of the Amount of Other Components (Shell, Gravel, Etc.) in the Soil Sample

ponents (Shell, Gravel, Etc.) in the Soil Sample Trace – 5% or less Few – 6% to 12% Some – 13% to 50% Many – 31% to 50%





REVISIONS

DATE DESCRIPTION DATE DESCRIPTION

WILLIAM LEE LAWRENCE, P.E. P.E. LICENSE NUMBER 60147 NOVA ENGINEERING AND ENVIRONMENTAL, LLC. 104-A LURTON ST PENSACOLA FL, 32505

ESCAMBIA COUNTY

ROAD NO. COUNTY FINANCIAL PROJECT ID

CR 297A ESCAMBIA

REPORT OF SIGNAL BORINGS

SHEET NO.

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