

CONTRACT PLANS COMPONENTS

ROADWAY SIGNING AND PAVEMENT MARKING SIGNALIZATION LIGHTING INTELLIGENT TRANSPORTATION SYSTEMS

INDEX OF SIGNALIZATION PLANS

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GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY 2024-25 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

Standard Plans for Road Construction and associated IRs are available at the following website: http://www.fdot.gov/design/standardplans

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY 2024-25 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

Osceola County Board of County Commissioners Road Construction Specifications at the following website: http://tinyurl.com/yc2mzhpp

BOARD OF COUNTY COMMISSIONERS OSCEOLA COUNTY, FLORIDA ENGINEERING DEPARTMENT

SIGNALIZATION PLANS FOR

COUNTY CONTRACT NO. PS-22-13174-DG

JACK BRACK ROAD WIDENING

FROM NARCOOSSEE ROAD TO ABSHER ROAD

NSACOLA FORT WALTON BEACH PANAMA CITY ST AUGUSTINE GAMESVILLE OCALA DAYTONA BEACH DELANDO ACH, INA MELBOURNE COCCOA ST PETERSBURG SARASOTA BRADENT http://tlinyuri.com/ykc632c9 NAPLES KEY WEST MIAMI KEY WEST MIAMI NACKSONVILLE JACKSONVILLE ST AUGUSTINE GAMESVILLE OCALA DAYTONA BEACH DELANDO ACH, INA MELBOURNE COCCOA FT PIERCE MEST PALM BEACH MIAMI

SIGNALIZATION PLANS ENGINEER OF RECORD:

ALEX HINKLE, P.E.
P.E. LICENSE NUMBER 82354
PROTEAN DESIGN GROUP
100 EAST PINE STREET, SUITE 600
ORLANDO, FL 32801
(407) 246-0044
VENDOR NO.: F593216593003

OSCEOLA COUNTY PROJECT MANAGER

JOSE J. SANTIAGO, CFM

COUNTY ADMINISTRATION
DON FISHER, COUNTY MANAGER

BOARD OF COUNTY COMMISSIONERS

DISTRICT 1

DISTRICT 2

DISTRICT 3

DISTRICT 4

DISTRICT 5

PEGGY CHOUDHRY

BRANDON ARRINGTON

VIVIANA JANER

CHERYL GRIEB

RICKY BOOTH

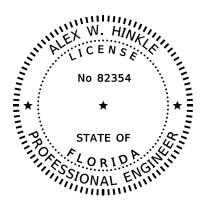
PUBLIC WORKS DEPARTMENT

MEHUL PAREKH, P.E., PUBLIC WORKS DIRECTOR
NICHOLAS HARTLEY, P.E., ASSISTANT TRANSPORTATION & TRANSIT DIRECTOR

60% SUBMITTAL APRIL 2024

FISCAL YEAR	SHEET NO.	
25	T-1	

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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.

PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801 ALEX W. HINKLE, P.E. NO.: 82354

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

SHEET NO.	SHEET DESCRIPTION
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T-2	SIGNATURE SHEET
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		REVISIONS
DATE	BY	DESCRIPTION

JACK BRACK ROAD WIDENING

ENGINEER OF RECORD

ALEX W. HINKLE, P.E. LICENSE NUMBER: 82354 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801



OSCEOLA COUNTY ENGINEERING DEPARTMENT

SIGNATURE SHEET

SHEET NO.

T-2

TABULATION OF QUANTITIES

PAY ITEM	DESCRIPTION						HEET NU	MBERS	<i>S</i>				TH	TOTAL GR THIS TO SHEET	
NO.	DESCRIPTION	UNIT			- 7	T - 8				_	B. 441 E.444			C C 1	
				AN FINAL PLAN		L PLAN FINAL	PLAN F	NAL	PLAN F	INAL	PLAN FINAL	PLAN FINAL			AN FIN
	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF		108 103									211		211
	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF.	2	260									260		260
	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI		20									20	,——	20
	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA AS		20									20	,	20
	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY THE CONTRACTOR ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	1	138 26									164	,	164
	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1	130 20			 						104	,	104
	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA		7		+ + +							2	,	2
	ALUMINUM SIGNALS POLE, PEDESTAL	EA		1 .											- 6
	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 50'	EA		3									3	,	3
	VEHICULAR TRAFFIC SIGNAL, FURNISH AND INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS				6							6		6
	VEHICULAR TRAFFIC SIGNAL, FURNISH AND INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS				1								,	1
	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS				6							6	,	6
	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA				1 1								 	1
	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA		3									3	,	3
	SIGNAL PRIORITY PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, REPLACE CABINET ELECTRONICS	EA											1		1
	SIGNAL PRIORITY PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, DETECTOR	EA											1		1
	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA		6									6	,	6
	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 2 PREEMPTION	AS											1		1
	ITS CCTV CAMERA, F&I, DOME ENCLOSURE - NON-PRESSURIZED, IP, HIGH DEFINITION	EA		1									1		1
- 1 - 13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA											1		1
- 3 - 201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA				1							1		1
-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA				3							3	,	3
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R E V I S I O N S

DATE BY DESCRIPTION

JACK BRACK ROAD WIDENING ENGINEER OF RECORD

ALEX W. HINKLE, P.E. LICENSE NUMBER: 82354 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801



TABULATION OF QUANTITIES

SHEET NO.

T-3

ABBREVIATION

TRAFFIC OPS

DISCIPLINE

ENGINEER OF RECORD

NAME

CARLOS BONILLA

ALEX W. HINKLE

NICHOLA HARTLEY, P.E. AARON TORRES

FMAII

PHONE

TMC@OSCEOLA.ORG NICHOLAS.HARTLEY@OSCEOLA.ORG AARON.TORRES@OSCEOLA.ORG AHINKLE@PROTEANDG.COM 407-742-9201 407-742-0518 407-738-9405 407-246-0044×121

GENERAL

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- 1. UNLESS OTHERWISE NOTED IN THE TECHNICAL SPECIFICATIONS: INSTALLATION ACCEPTANCE, AND PAYMENT FOR ALL ITEMS
 REQUIRED IN THESE PLANS SHALL BE IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING, REFERENCED IN THE KEY
 SHEET: MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), FDOT STANDARD PLANS, FDOT DESIGN MANUAL, FDOT STANDARD
 SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND OSCEOLA COUNTY CONTRACTOR SIGNAL SPECIFICATIONS.
- THE CONTRACTOR SHALL NOTIFY TRAFFIC OPS AND TMC AT LEAST 48 HOURS BEFORE BEGINNING ANY RELATED TRAFFIC SIGNAL WORK. SHOULD COMMUNICATION TO AN INTERSECTION BE DISRUPTED, CORRESPONDENCE SHALL INCLUDE CONTACT NAME, PHONE NUMBER, PURPOSE, LOCATION, AND DURATION OF OUTAGE.
- 3. THE CONTRACTOR SHALL BE ADVISED THAT OTHER PROJECTS MAY BE UNDER CONSTRUCTION CONCURRENTLY WITH THIS PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL ASPECTS OF SCHEDULING AND WORK WITH OTHER AGENCIES AND CONTRACTORS IN CHARGE OF CONCURRENT PROJECTS.
- 4. FINAL LOCATIONS OF ANY DEVICES INCLUDING CABINETS SHALL BE APPROVED BY TRAFFIC OPS AND THE EOR PRIOR TO PLACEMENT OF THE FOUNDATION IF THE LOCATION HAS CHANGED FROM THE PLAN.
- 5. FINAL LOCATION OF CCTV CAMERAS SHALL BE APPROVED IN THE FIELD BY TRAFFIC OPS PRIOR TO INSTALLATION, REGARDLESS OF WHERE THE SIGNAL PLANS SPECIFY IT TO BE INSTALLED.
- 5. ANY FIBER INTERCONNECT CABLE THAT IS CUT OR DAMAGED DURING CONSTRUCTION MUST BE REPLACED AS AN ENTIRE RUN AND SHALL BE RE-SPLICED WITHIN THE SPLICE CLOSURE AT THE END OF THE RUN. SPLICING FIBER INTERCONNECT CABLE BETWEEN SPLICE CLOSURES IS NOT PERMITTED. THE CONTRACTOR SHALL BEAR ALL EXPENSES ASSOCIATED WITH THE INSTALLATION OF THE NEW INTERCONNECT CABLE.
- 7. THREE SPARE CONDUCTORS SHALL BE INSTALLED FOR EACH VEHICLE PHASE PER OSCEOLA COUNTY STANDARD.

OSCEOLA COUNTY TRAFFIC MANAGEMENT CENTER OSCEOLA COUNTY TRANSPORTATION AND TRANSIT OSCEOLA COUNTY TRAFFIC OPERATIONS

- 3. A PERMANENT TAG SHALL BE PLACED AT ALL WIRE TERMINATIONS DESIGNATING THE PHASE USED. ALL UNUSED SIGNAL WIRES SHALL
 BE BONDED TO THE POLE GROUND AT THE BOTTOM AND INDIVIDUALLY TAPED WITHIN SIGNAL HEADS. EACH DETECTOR PUSH BUTTON
 SHALL BE FED WITH AN INDIVIDUAL TWO CONDUCTOR BELDEN CABLE, WITH THE SHIELD WIRE BONDED TO THE POLE GROUND. THE
 OUTSIDE INSULATION JACKET OF ALL SIGNAL CABLES SHALL REMAIN INTACT FROM THE SIGNAL HEADS TO THE FIELD TERMINATION
 POINTS.
- 9. NO UN-JACKETED INDIVIDUAL CONDUCTORS SHALL REST IN ANY FIELD DRILLED STRUCTURES OR ASSEMBLIES.
- 10. NO MIXING OF HIGH VOLTAGE, LOW VOLTAGE, POWER, AND FIBER CABLES WILL BE PERMITTED IN ANY CONDUITS OR PULL BOXES.
- 11. SOLID COLORED INSULATION CONDUCTORS SHOULD BE USED FOR THROUGH ROADWAY PHASES AND TRACERS USED FOR TURN PHASES.
- 12. ALL LUMINAIRES AND ILLUMINATED STREET NAME SIGNS SHALL BE CONTROLLED BY ONE MASTER PHOTOCELL LOCATED OUTSIDE THE ELECTRICAL SERVICE DISCONNECT WIRED TO A DEDICATED CIRCUIT BREAKER WITHIN THE ELECTRICAL SERVICE DISCONNECT.
- 13. THE CONTRACTOR SHALL VERIFY STRUCTURE ORIENTATION PRIOR TO PLACEMENT. STRUCTURES OF INCORRECT ORIENTATION SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL VERIFY THAT ALL STRUCTURES ARE SET TO ELEVATIONS THAT WILL MEET VERTICAL CLEARANCE REQUIREMENTS SPECIFIED IN FDOT, MUTCD, AND COUNTY STANDARDS PRIOR TO INSTALLING STRUCTURAL MATERIAL. IF A DISCREPANCY IS FOUND, CONTACT THE ENGINEER OF RECORD.
- 14. IF THE CONTRACTOR CALLS FOR AN INSPECTION AND THE CONTRACTOR IS NOT PREPARED FOR THE INSPECTION (I.E. THE INSPECTION HAS TO BE RESCHEULED), THE CONTRACTOR SHALL BE BACK CHARGED FOR ALL COSTS ASSOCIATED WITH THE INSPECTION.

SUBMITTALS

1. ALL SUBMITTAL DATA ON OSCEOLA COUNTY PROJECTS SHOULD BE SUBMITTED TO VIA EMAIL TO T&T AND TRAFFIC OPS.

SURVEY

1. ELEVATIONS SHOWN ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

UTILITIES

THE CONTRACTOR SHALL NOTIFY ALL UTILITIES AT LEAST 48 HOURS IN ADVANCE OF ANY OPERATION THAT MAY CONFLICT WITH OVERHEAD OR UNDERGROUND UTILITIES, INCLUDING POLE SETTING OPERATIONS WHERE A CONFLICT WITH OVERHEAD ELECTRICAL CONDUCTORS IS EXPECTED.

TELEPHONE #

LIST OF UTILITY OWNERS: COMPANY

AT&T DISTRIBUTION JASON BOCK (321) 388-9707
CENTURYLINK - LOCAL RELOCATIONS@LUMEN.COM N/A
CHARTER COMMUNICATIONS JOHN SMITH (407) 532-8520

CONTACT

COMCAST COMMUNICATIONS THOMAS OSEBOLD (352) 315-8527 / (352) 267-7620
OSCEOLA COUNTY JACK LOTT (407) 742-7534 / (407) 742-7813
OUC - ELECTRIC JUAN DIAZ (321) 436-6215
TOHO WATER AUTHORITY KEVIN BURGESS (407) 425-0452

 TOHO WATER AUTHORITY
 KEVIN BURGESS
 (407) 425-0452

 UNITI FIBER
 JAMES MOSLEY
 (251) 654-8216

 VERIZON / MCI
 TIM COLE
 (407) 702-6425 / (407) 506-8635

 ZAYO GROUP
 KATE PETERS
 (815) 274-7274

IMMEDIATELY AND PRIOR TO ANY FURTHER WORK ACTIVITY.

. THESE PLANS REFLECT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS PREVENT THE APPLICATION OR THE PROGRESSION OF ANY WORK SPECIFIED IN THESE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER

DRILLED SHAFTS

- 1. THE COUNTY SHALL HIRE A CTOP CERTIFIED CONSTRUCTION ENGINEERING AND INSPECTION (CEI) FIRM, AND A CONCRETE TESTING LABORATORY FOR THE PURPOSE OF INSPECTING ALL DRILLED SHAFT INSTALLATIONS PER CURRENT FDOT STANDARDS. THE FIRM SHALL THEN SUBMIT A SIGNED AND SEALED REPORT VERIFIED BY THE PE IN RESPONSIBLE CHARGE OF THE DRILLED SHAFT INSPECTOR TO THE DEPARTMENT FOR APPROVAL. CONTRACTOR TO ALSO COORDINATE WITH OSCEOLA COUNTY TO PERFORM VT INSPECTION AT TIME OF DRILLED SHAFT POUR. FAILURE TO OBTAIN THESE SERVICES PRIOR TO THE CONSTRUCTION OF THE DRILLED SHAFT(S).
- THE SIGNAL CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO CONFLICTS EXIST DURING THE SOFT DIGS WITH DRILL SHAFT LOCATIONS AND MUST NOTIFY THE ENGINEER OF RECORD WHEN THEY ARISE. THE SIGNAL CONTRACTOR IS RESPONSIBLE FOR ALL ASSOCIATED COST, NOT COMPLYING WITH THIS SIGNAL NOTE.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING APPROVED SHOP DRAWINGS SHOWING THE BOLT PATTERN AND ARM ORIENTATION PRIOR TO THE PRE-DRILL SHAFT MEETING.

MAST ARMS

1. THE MAST ARMS SHALL BE PAINTED "MIDNIGHT NEUTRAL" (SHERWIN WILLIAMS J4-55-34), APPLIED ACCORDING TO FDOT STANDARD SPECIFICATIONS 560 (CODES Z-C AND B-8 FOR PRIME AND INTERMEDIATE COATS). THIS INCLUDES ANY LUMINAIRES INSTALLED ON THE MAST ARM.

AS-BUILT PLANS

 AS DEFINED IN THE FDOT STANDARD SPECIFICATIONS, SECTION 611-2.3, SEVEN DAYS PRIOR TO SIGNAL CONDITIONAL ACCEPTANCE INSPECTION BY THE MAINTAINING AGENCY, THE CONTRACTOR SHALL PROVIDE A PDF OF THE AS BUILT PLANS TO OSCEOLA COUNTY TRANSPORTATION AND TRANSIT. THE CONTRACTOR SHALL ALSO LEAVE ONE AS-BUILT PLAN IN THE DRAWER OF THE SIGNAL CABINET. IN ADDITION TO AS BUILT PLANS, CONTRACTOR SHALL SUBMIT BORE LOGS.

R E V I S I O N S

DATE BY DESCRIPTION

JACK BRACK ROAD WIDENING ENGINEER OF RECORD

ALEX W. HINKLE, P.E. LICENSE NUMBER: 82354 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801



GENERAL NOTES

SHEET NO.

1-4

jbarrios 4/11/2024 10:40:13 AM Defaul

- 630-2-11 & 630-2-12 AN ORANGE #12 AWG LOCATE WIRE SHALL BE INSTALLED WITHIN ANY UNUSED CONDUIT AND SPLICED WITHIN THE PULL BOX TO PROVIDE ELECTRICAL CONTINUITY. THERE SHALL BE ONE SPARE 2" UNDERGROUND CONDUIT INSTALLED PER RUN. THIS SHALL BE REFLECTED IN THE CALLOUT. THERE SHALL BE A SEPARATE CONDUIT FOR VIDEO OR LOOP RUNS FROM SIGNAL POWER CONDUITS. UNDER NO CIRCUMSTANCES SHALL LOOP AND VIDEO RUNS BE HOUSED IN THE SAME CONDUIT AS SIGNAL POWER
- 635-2-11 & 635-2-12 PULL BOXES SHALL BE TIER 15 "QUAZITE" OR QUAZITE EQUIVALENT IN LID DIMENSIONS, CORNER RADIUS, AND THICKNESS. COVERS SHALL BE STAMPED: "OSCEOLA COUNTY TRAFFIC SIGNAL" FOR ALL SIGNALIZED APPLICATIONS. "OSCEOLA COUNTY ATMS ELECTRIC" FOR ALL ATMS ELECTRIC APPLICATIONS.
- 641-2-12 INCLUDES THE COST OF PROVIDING CONCRETE SERVICE POLE TO MOUNT SIGNAL DISCONNECT WHEN NOT PERMITTED TO BE MOUNTED ON POWER COMPANY POLE. SERVICE POLE SHALL BE EXPOSED 12' ABOVE GRADE WITH DISCONNECT MOUNTED AT 8'. SURGE ARRESTOR SHALL BE WIRED ON THE LOAD SIDE OF THE DISCONNECT.
- 646-1-11 ALL PEDESTRIAN PEDESTALS SHALL BE PROVIDED WITH ALUMINUM BREAKAWAY TRANSFORMER-TYPE BASES.
- 649-21-3, 649-21-6 & 649-21-10 BID PRICE FOR INSTALLATION OF MAST ARMS SHALL INCLUDE FOUNDATION CONSTRUCTION, INCLUDING CSL TUBES (NUMBER AND CONFIGURATION OF CSL TUBES SHALL COMPLY WITH STANDARDS AND SPECIFICATIONS SECTION 455-16.4 CSL TUBES AND FDOT STANDARD PLAN.)
- 650-1-14 & 650-1-16 ALL TRAFFIC SIGNAL HEADS SHALL BE ALUMINUM. AN ARTICULATED ASTRO-BRACKET SHALL BE PROVIDED UNDER THIS PAY ITEM IF NEEDED FOR PROPER ORIENTATION OF HORIZONTAL SIGNAL HEAD ON A SKEWED ARM OR APPROACH. RETRO REFLECTIVE BACK PLATE BORDERS ARE REQUIRED ON ALL BACK PLATES. ANY FOUR SECTION SIGNAL HEADS WITH THE FLASHING YELLOW ARROW SHALL HAVE THE FTP-85-13 SIGN INSTALLED ADJACENT TO THE HEAD ASSEMBLY TO THE RIGHT.
- 653-1-11 LED PEDESTRIAN SIGNALS ARE TO BE SINGLE SECTION AND PROVIDED WITH INTERNATIONAL STYLE LENSES AND COUNTDOWN FEATURE.
- 660-4-11 & 660-4-12 CONTRACTOR TO FURNISH AND INSTALL ITERIS VANTAGE NEXT WITH VECTOR SYSTEM. CONTRACTOR TO COORDINATE WITH THE DEVICE MANUFACTURER FOR PROPER SET UP OF EQUIPMENT. PROPER GROUNDING MUST BE PROVIDED INCLUDING A BOND WIRE ATTACHED TO THE CAMERA ASSEMBLY RUNNING TO THE POLE GROUND, THIS ITEM INCLUDES EXTERIOR USE CABLING, AND MOUNTING BRACKETS NECESSARY TO MEET THE PERFORMANCE EXPECTATIONS OF THE SYSTEM. PAYMENT INCLUDES ALL LABOR (MAN-HOURS) AND EQUIPMENT NECESSARY TO DEVELOP AN ACCEPTANCE TESTING PLAN AND TO COMPLETE A SUCCESSFUL FIELD ACCEPTANCE TEST OF THE VIDEO DETECTION SYSTEM.
- 663-1-121 & 663-1-122 CONTRACTOR TO FURNISH AND INSTALL GLOBAL TRAFFIC TECHNOLOGIES GPS RECEIVER AND ANTENNA. CONTRACTOR TO FURNISH AND INSTALL GLOBAL TRAFFIC TECHNOLOGIES SYSTEM-SPECIFIC MULTI-PAIR CABLE. THE CONTRACTOR WILL PERFORM ALL SIGNAL PREEMPTION TESTING, MAPPING AND SYSTEM ACTIVATION. GPS ANTENNA SHALL BE LOCATED ON THE STRAIN POLE OR MAST ARM UPRIGHT NEAREST TO THE CABINET.
- 665-1-11 PEDESTRIAN PUSH BUTTONS SHALL INCLUDE A MUTCD PEDESTRIAN SIGN, R10-3i FOR EACH BUTTON. THE BUTTON AND SIGN SHALL BE PLACED ON THE FACE OF THE POLE. CONTACT THE ENGINEER BEFORE PROCEEDING IF ALL A.D.A. REQUIREMENTS CANNOT BE MET REGARDING THE PLACEMENT AND ACCESSIBILITY OF THE BUTTONS. AUDIBLE PUSH BUTTONS SHALL ONLY BE INSTALLED WHEN CALLED FOR ON PLAN SHEETS.
- 11. 670-5-112 THE CONTROLLER ASSEMBLY SHALL BE ECONOLITE R77 TS2 TYPE 1 OPERATION, AND CONSIST OF AN ECONOLITE COBALT 2100 CONTROLLER. THE TOP OF THE CONTROLLER PAD SHALL BE AT LEAST SIX INCHES ABOVE THE ROADWAY ELEVATION. THIS PAY ITEM SHALL ALSO INCLUDE COMPLETE INSTALLATION AND INTIGRATION OF THE GPS PRIORITY CONTROL PREEMPTION EQUIPMENT. A TECHINICIAN SERVICE PAD 30" IN WIDTH SHALL ALSO BE PROVIDED. WHENEVER POSSIBLE. THE CABINET IS TO BE PLACED SO THAT THE DOOR OPENS AWAY FROM THE INTERSECTION AND OPENS FULLY WITHIN THE RIGHT OF WAY. THIS PAY ITEM INCLUDES THE COST OF THE CONCRETE FOR THE CONTROLLER PAD AND THE SERVICE PAD. FOR MORE DETAILED SPECIFICATIONS CONTACT TRAFFIC OPS.
- 682-1-133 ALL NEW CCTV CAMERAS SHALL BE SHALL BE BOSCH BG5-ITS-1080P-30x6, MOUNTED TO HAVE THE ABILITY TO VIEW 360-DEGREE ANGLE BY PLACING THE CAMERA ON THE MAST ARM USING A CANDY CANE TYPE SUPPORT RISE.
- 13. 685-1-13 ALL UPS SYSTEMS SHALL BE ALPHA XM 1100 OR AN EQUIVALENT ALPHA MODEL THAT MEETS OSCEOLA COUNTY'S COMMUNICATION SYSTEM REQUIREMENTS. UPS CABINETS SHALL BE INSTALLED SEPARATELY FROM THE CONTROLLER ASSEMBLY, NO
- 700-5-22 ILLUMINATED STREET SIGNS SHALL BE L.E.D. PRODUCING 50 LUMENS PER WATT. SIGNS SHALL BE DOUBLE-SIDED AND MOUNTED TO SEPARATE CANTILEVER ARMS BELOW THE MAST ARMS. THE SIGNS SHALL BE CONTROLLED BY ONE MASTER PHOTOCELL LOCATED OUTSIDE THE ELECTRICAL SERVICE DISCONNECT WIRED TO A DEDICATED CIRCUIT BREAKER WITHIN THE ELECTRICAL SERVICE DISCONNECT

LEGEND:

SYMBOL	DESCRIPTION
₽	TRAFFIC SIGNAL (3-SECTION OR 4-SECTION)
	PULL BOX 13" X 24" (SIGNALS)
	PULL BOX 24" X 36" (FIBER)
	SPLICE VAULT
	VIDEO DETECTION CAMERA
	CCTV CAMERA
-	GPS PREEMPTION DEVICE
— • —	CONDUIT (OPEN TRENCH)
 ••	CONDUIT (DIRECTIONAL BORE)
//DZ#//	VEHICLE DETECTION ZONE
	SIGNAL CABINET
	UPS CABINET
	CONCRETE PEDESTRAL (TYPE P-IIA)

CONDUIT RUN

(2) 2" CONDUIT - SPARE

(1) 2" CONDUIT - SIGNAL

(1) 2" CONDUIT - VIDEO

(1) 2" CONDUIT - SIGNAL (1) 2" CONDUIT - VIDEO (2) 2" CONDUITS - SPARE

(1) 2" CONDUIT - PED SIGNAL (1) 2" CONDUIT - PED DETECTOR

(1) 2" CONDUIT - PED DETECTOR (2) 2" CONDUITS - SPARE

CRI: 2 RIINS W/

CR4: 5 RUNS W/

CR5: 4 RUNS W/

CR6: 2 RUNS W/

CML 2 NONS W/	CN7. 12 NONS W/
(1) 2" CONDUIT - POWER	(4) 2" CONDUITS - SIGNAL
(1) 2" CONDUIT - SPARE	(1) 2" CONDUIT - VIDEO
	(1) 2" CONDUIT - PED DETECTOR
CR2: 7 RUNS W/	(1) 2" CONDUIT - FIBER
(1) 2" CONDUIT - POWER	(1) 2" CONDUIT - POWER
(2) 2" CONDUIT - SIGNAL	(4) 2" CONDUITS - SPARE
(1) 2" CONDUIT - VIDEO	
(1) 2" CONDUIT - PED DETECTOR	CR8: 4 RUNS W/
(2) 2" CONDUITS - SPARE	(1) 2" CONDUIT - SIGNAL
	(1) 2" CONDUIT - VIDEO
CR3: 6 RUNS W/	(1) 2" CONDUIT - PED DETECTOR
(1) 2" CONDUIT - SIGNAL	(1) 2" CONDUIT - SPARE
(1) 2" CONDUIT - VIDEO	
(1) 2" CONDUIT - PED DETECTOR	
(1) 2" CONDUIT - FIBER	



CR7: 12 RIINS W/

REVISIONS DESCRIPTION

JACK BRACK ROAD

WIDENING

ALEX W. HINKLE, P.E LICENSE NUMBER: 82354 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801

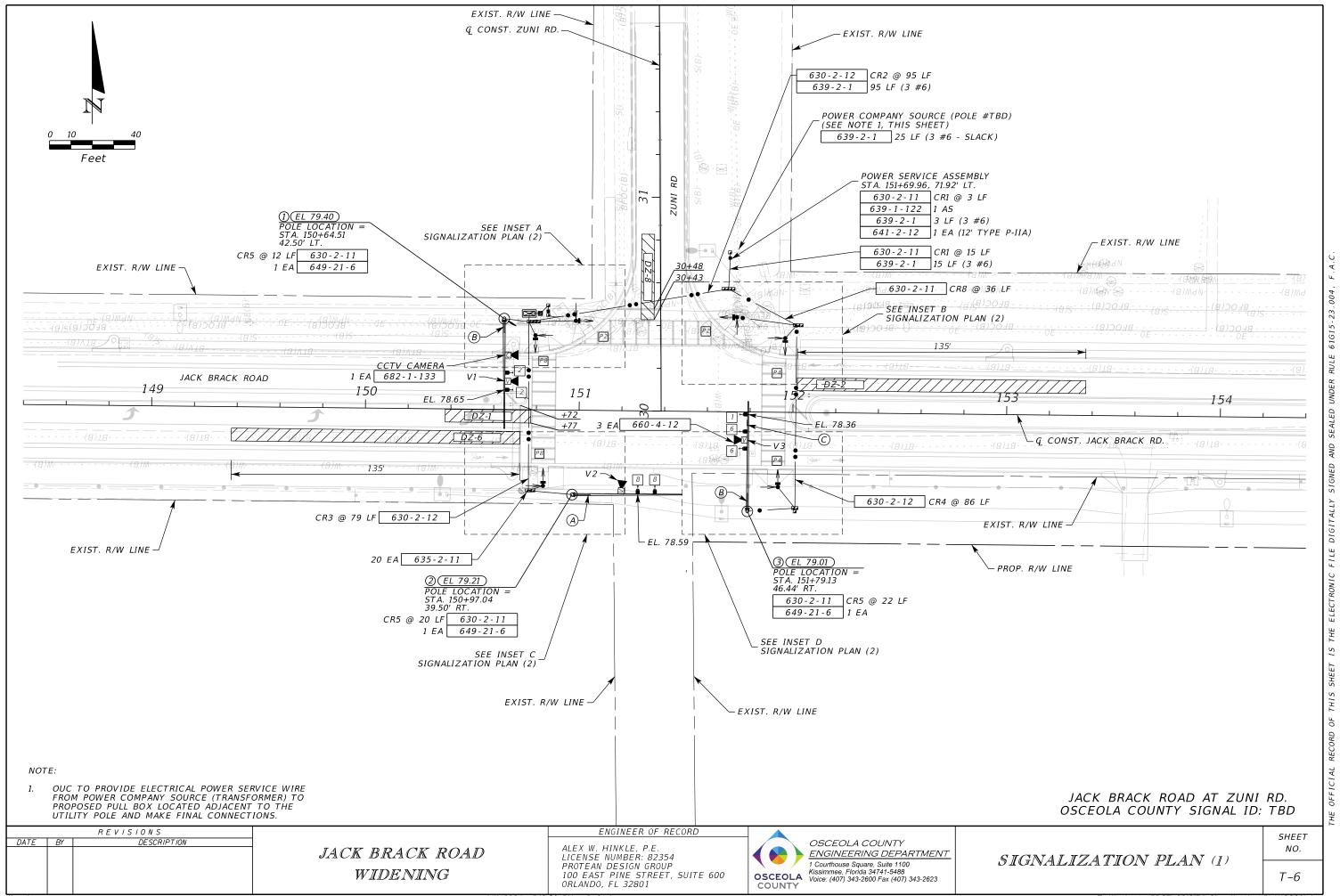
ENGINEER OF RECORD

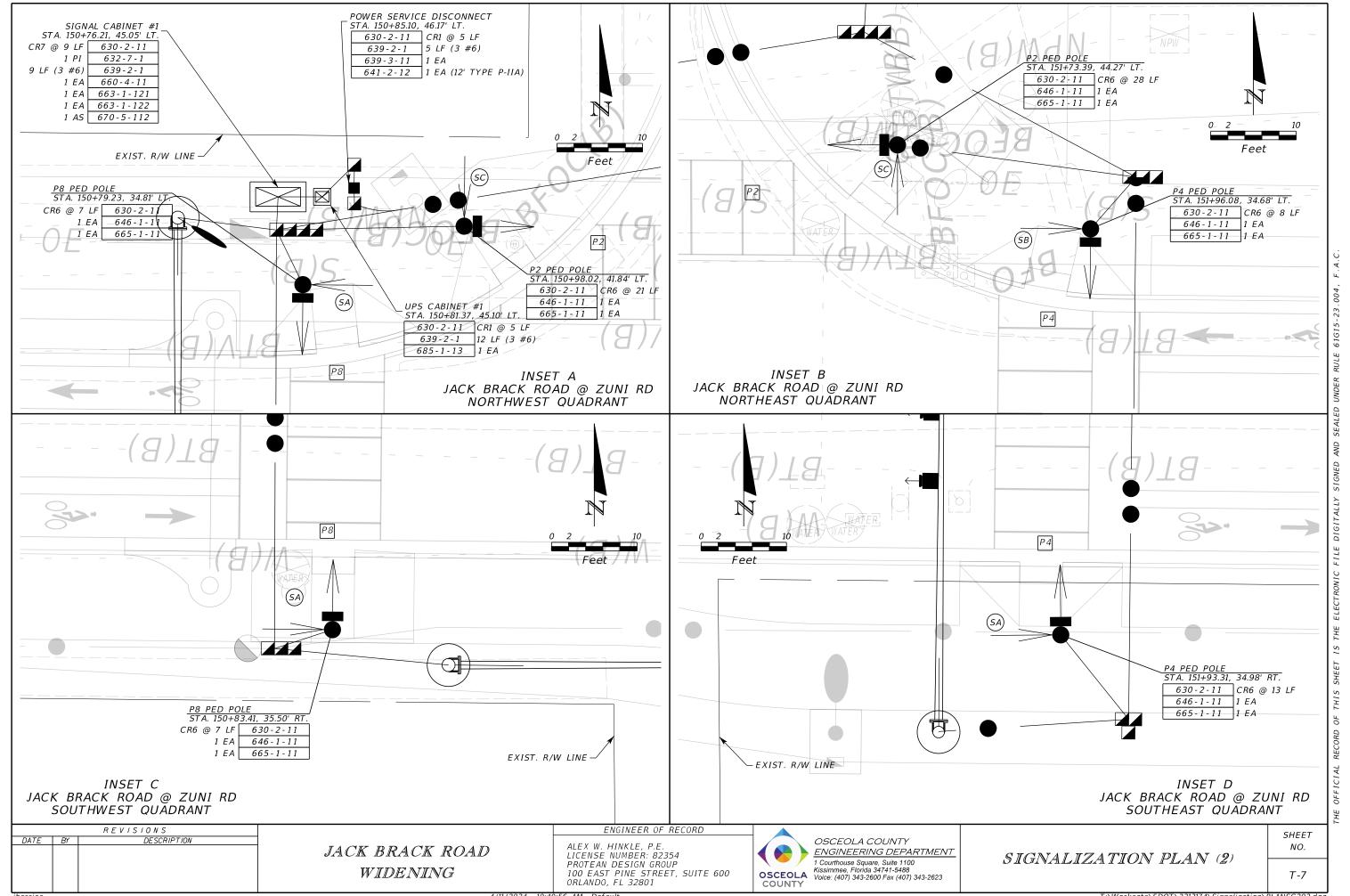


GENERAL NOTES

SHEET NO.

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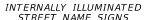


- THE MAJOR STREET IS JACK BRACK ROAD, MOVEMENTS 2 AND 6. THE MINOR STREET IS ZUNI RD., MOVEMENT 8.
- SIGNAL OPERATING PLAN 12 AS SHOWN BELOW WITH THE FOLLOWING:
 - WHEN THE SIGNAL IS IN FLASHING MODE, MOVEMENTS 2 AND 6 SHALL FLASH YELLOW. ALL OTHER MOVEMENTS SHALL FLASH RED.
 - WHEN A PEDESTRIAN CALL IS ACTIVE FOR MOVEMENT P2, FLASHING YELLOW ARROW OPERATION FOR MOVEMENT 1 SHALL BE OMITTED.
- POSTED SPEEDS: JACK BRACK ROAD: 35 MPH ZUNI RD.: 35 MPH

TABLE 1: VIDEO DETECTOR ASSIGNMENTS											
VIDEO DETECTOR UNIT #	ASSIGNED TO MOVEMENT	ZONE	ZONE SIZE	DELAY (SEC)							
V 1	2	DZ - 2	6' X 135'								
V2	8	DZ - 8	6' X 40'	5							
V.3	1	DZ - 1	6' X 40'								
V 3	6	DZ - 6	6' X 135'								

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

	TABLE 2: CONTROLLER TIMINGS										
С	ONTROLLER PHASE	1	2	4	6	8					
D	IRECTION	EBLT	WB	-	EΒ	SB					
	MINIMUM GREEN	5	15		15	7					
>	EXTENSION	3.0	3.0		3.0	3.0					
710	MAXIMUM GREEN 1	15	25		25	20					
FUNCTION	MAXIMUM GREEN 2	20	45		45	25					
	YELLOW CLEARANCE	4.0	4.0		4.0	4.0					
ING	ALL RED	2.2	2.0		2.0	2.0					
TIMING	PEDESTRIAN WALK		7	7		7					
7	PED. CLEARANCE		18	15		15					
	RECALL		MIN		MIN						



STREET NAME SIGNS

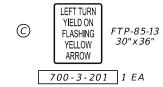
Jack Brack Rd

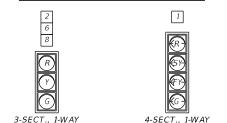
OH-1 96"x24" 700-5-22 1 EA

Zuni Rd \bigcirc B

OH-2 72"x24" 700-5-22 2 EA

MAST ARM MOUNTED SIGNS





TRAFFIC SIGNAL HEAD DETAILS

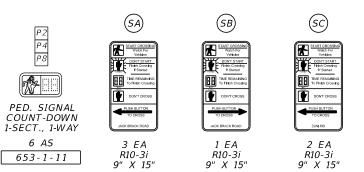
PEDESTRIAN SIGNAL HEAD AND SIGN DETAILS

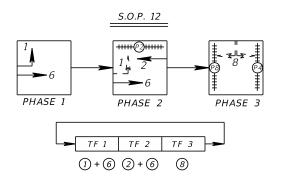
1 AS

650 - 1 - 16

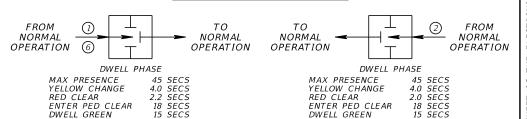
6 AS

650 - 1 - 14





EMERGENCY PREEMPTION PLAN



JACK BRACK ROAD AT ZUNI RD. OSCEOLA COUNTY SIGNAL ID: TBD

REVISIONS DESCRIPTION

JACK BRACK ROAD WIDENING

ENGINEER OF RECORD

ALEX W. HINKLE, P.E. LICENSE NUMBER: 82354 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801



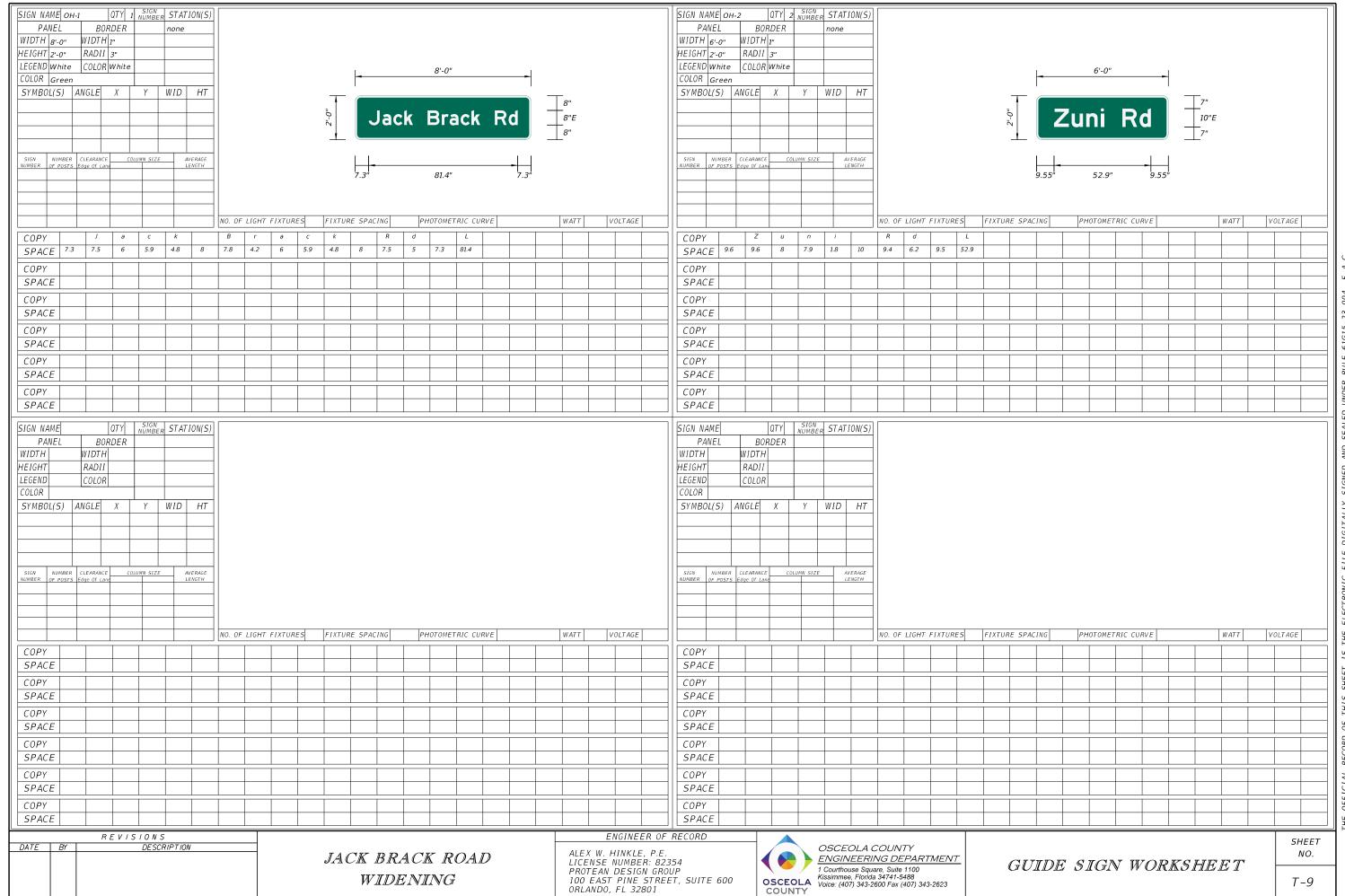
OSCEOLA COUNTY ENGINEERING DEPARTMENT 1 Courthouse Square, Suite 1100 Kissimmee, Florida 34741-5488 OSCEOLA Voice: (407) 343-2600 Fax (407) 343-2623

SIGNALIZATION PLAN (3)

SHEET NO.

T-8

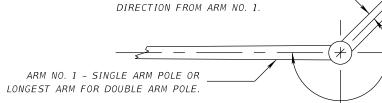
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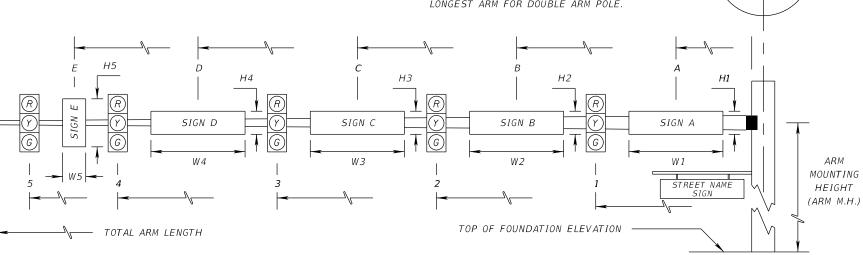


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* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY 'VD' DENOTES VIDEO DETECTOR

'C' DENOTES CCTV CAMERA

									SIGNAL DATA														SIGN DATA										
ID	SHEET		LOCATION	TOP OF FOUND. ELEVATION	RDWY	CROWN	LUMI - NAIRE Y/N	TERM.	SIGNAL	BACK	PED.			DI.	STA	NCE FROM	POLE	•			TOTAL	ARM	ANGLE BETWEEN DUAL ARMS 90/270	DIST	ANCE	FROM I	² 0LE /	/ HEIG	GHT AND	D WIDT	-H OF	SIGN	PAINT
NO	NO.		BY STA.	ELEVATION	ARM NO.	ELEV.	Y/N	Y/N	V/H	Y/N	Y/N	1	*	2	*	3 *	4	*	5	*	LENGTH	М.Н.	DUAL ARMS 90/270	Α	H 1	W 1	В	H2	W2	С	Н3	W3	COLOR
1	T-6	STA.	150+64.51, 42.50' LT	. 79.40	1	78.65	N	N	V	Υ	N	15.8	С	24.0	3	28.0 VD	32.0) 3			50	21.5											MIDNIGHT NEUTRAL
					2																												
2	T-6	STA.	150+97.04, 39.50' RT	. 79.21	1	78.59	N	N	V	Υ	N	21.5	VD	29.5	3	37.5 3					50	21.5											MIDNIGHT NEUTRAL
					2	·																											
3	T - 6	STA.	151+79.13, 46.44' RT	79.01	1	78.36	N	N	V	Υ	N	28.1	3	32.1	VD	36.1 3	44.1	4			50	21		40.1	3	2.5							MIDNIGHT NEUTRAL
					2																												

FUTURE LOADS

(FOR DESIGN AND REFERENCE PURPOSES ONLY - CONSTRUCT PER TABLE ABOVE)

										SIGNAL DATA											SIGN DATA												
ID	SHEET		LOCATION	TOP OF FOUND. ELEVATION	RDWY	CROWN	LUMI - NAIRE	TERM.	SIGNAL	BACK PLATES	PED.			DI	STAN	CE F	ROM	POLE			TOT AR	^{AL} AR	RM ANGLE BETWEEN		TANCE	FROM I	POLE ,	/ HEIC	3HT AN	D WIDT	гн оғ	SIGN] PAINI
NO.	NO.		BY STA.	ELEVATION	ARM NO.	ELEV.	Y/N	Y/N	V/H	Y/N	Y/N	1	*	2	*	3	*	4	*	5	* LENG	тн M . I	H. DUAL ARM 90/270	A	Н1	W 1	В	H2	W2	С	Н3	W3	COLOR
1	T-6	STA.	. 150+64.51, 42.50' LT.	79.40	1	78.65	N	N	V	Υ	N	15.8	С	24.0	3	28.0	VD	32.0	3	40.0	4 5	21	. 5	26.5	3	2.5							MIDNIGHT NEUTRAL
					2	1																											
2	T - 6	STA.	. 150+97.04, 39.50' RT.	79.21	1	78.59	N	N	V	Υ	N	21.5	VD	29.5	3	37.5	3	45.5	4	•	5	21	. 5										MIDNIGHT NEUTRAL
					2	1																											

			REVISIONS
ı	DATE	BY	DESCRIPTION

JACK BRACK ROAD WIDENING ENGINEER OF RECORD

ALEX W. HINKLE, P.E. LICENSE NUMBER: 82354 PROTEAN DESIGN GROUP 100 EAST PINE STREET, SUITE 600 ORLANDO, FL 32801



MAST ARM TABULATION

SHEET NO.

T-10

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