LAKE COUNTY, FLORIDA

SECTION 11070 - M.P. 14.443 SR 50 AT OAKLEY SEAVER ROAD PERMIT NO. 04-A-592-0025

SIGNAL MODIFICATION PLANS



PROJECT LOCATION

VICINITY MAP N.T.S.

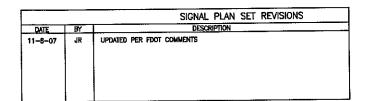
GOVERNING STANDARDS AND SPECIFICATIONS: FLORIDA DEPARTMENT OF TRANSPORTATION, DESIGN STANDARDS DATED 2006, AND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED 2007, AS AMENDED BY CONTRACT DOCUMENTS.

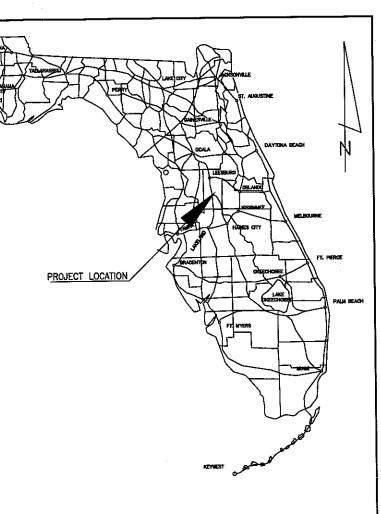
INDEX OF SIGNALIZATION PLANS

SHEET NO.

SHEET DESCRIPTION

KEY SHEET TABULATION OF QUANTITIES GENERAL NOTES SIGNALIZATION PLAN





SIGNALIZATION SHOP DRAWINGS TO BE SUBMITTED TO:

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PLANS PREPARED BY:

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ENGINEERING BUSINESS NO. 27392

NOTE: THE SCALE OF THESE PLANS MAY HAVE CHANGED BY REPRODUCTION.

SIGNALIZATION PLANS ENGINEER OF RECORD:

DATE:

41902

SHEET NO.

T-1

TABULATION OF QUANTITIES

BID ITEM NUMBER	DESCRIPTION	UNIT	SHEET T-4										TOTAL THIS SHEET		GRAND TOTAL	
			ORIG	FINAL	ORIG	FINAL	ORIG	FINAL	ORIG	FINAL	ORIG	FINAL	ORIG	FINAL	ORIG	FINAL
101-1	MOBILIZATION	LS	1												1	
102-1	MAINTENANCE OF TRAFFIC	LS	1												1	
555-1-1	CONDUIT - DIRECTIONAL BORE (LESS THAN 6")	LF	150			_									150	-
630-1-12	CONDUIT - SIGNALS, FURNISH & INSTALL, UNDERGROUND		460												460	
635-1-11	PULL BOX	EA	4												4	
650-53	TRAFFIC SIGNAL, INSTALL	AS	1										·		1	
660-1-110	INDUCTIVE LOOP DETECTOR (TYPE 10, 2 CH, SS, RM, TD)	EA	1												1	
660-2-102	LOOP ASSEMBLY (TYPE B) (6'x6')		4												4	
660-2-106	LOOP ASSEMBLY (TYPE F MOD) (6'x40')	AS	3											<u> </u>	3	
690-10	TRAFFIC SIGNAL HEAD ASSEMBLY, REMOVAL	EA	1												1	<u> </u>
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REVISIONS

DATE BY DESCRIPTION

II-9-07 JR UPDATED PER FDOT COMMENTS

Engineer of Record: Fred Ferrell, P.E. PE No. 41902 Date: November 14, 2007 Traffic Engineering

Data Solutions, Inc.

Phone 386.775.TEDS 615 N. Charles Richard Beall Blvd, Suite 103
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO. COUNTY FINANCIAL PROJECT ID

SR 50 LAKE -----

TABULATION OF

QUANTITIES

SHEET NO:

T-2

GENERAL NOTES:

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING LOGAN LAND (FDOT) AT (352) 315-3100, RAY MARLIN (FDOT) AT (386) 943-5318 AND STEVE BOLLINGER (LAKE COUNTY) AT (352) 742-1766 AT LEAST TWO (2) BUSINESS DAYS PRIOR TO BEGINNING ANY WORK IN THE RIGHT OF WAY, ANY LANE CLOSURES AND AGAIN FOR LOOP INSTALLATION. ADDITIONALLY, THE LOCAL PERMIT MANAGER (LOGAN LAND) MUST BE INFORMED TWO (2) BUSINESS DAYS BEFORE ANY DIRECTIONAL BORES.
- THE CONTRACTOR SHALL NOTIFY LAKE COUNTY TRAFFIC OPERATIONS AT LEAST 24 HOURS IN ADVANCE OF INSTALLING SIGNAL POLES, GROUND RODS, UNDERGROUND CONDUIT, AND SEALING SIGNAL HEAD ASSEMBLIES SO THAT THESE OPERATIONS CAN BE OBSERVED.
- ALL MATERIALS AND HARDWARE SHALL BE F.D.O.T. APPROVED, AND PREAPPROVED BY LAKE COUNTY TRAFFIC OPERATIONS.
- THE CONTRACTOR SHALL VERIFY COLOR CODES FOR SIGNAL CABLE AND INTERCONNECT WITH LAKE COUNTY TRAFFIC OPERATIONS.
- IT SHALL BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED; IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO EXAMINE THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.
- CONTRACTOR SHALL PROVIDE 4 SETS OF CONSTRUCTION "AS-BUILTS" ONE TO FDOT, ONE FOR THE CABINET, ONE FOR LAKE COUNTY TRAFFIC ENGINEERING DEPARTMENT, AND ONE TO THE ENGINEER OF RECORD.
- TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH INDEX 600 OF FDOT'S DESIGN STANDARDS 2006 EDITION.
- ALL SIGNAL HEADS SHALL HAVE TUNNEL VISORS AND LED DISPLAYS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL NECESSARY PERMITS INCLUDING THE ELECTRIC PERMIT, AND TO COORDINATE APPLICATION FOR POWER, WITH LAKE COUNTY TRAFFIC OPERATIONS AT (352) 742-1766.
- 10. THE CONTRACTOR SHALL FURNISH LAKE COUNTY TRAFFIC OPERATIONS WITH EMERGENCY CONTACTS AND PHONE NUMBERS AND HAVE AN IMSA LEVEL II CERTIFIED SIGNAL TECHNICIAN ON CALL WITHIN A TWO HOUR MINIMUM RESPONSE TIME.
- 11. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EXACT LOCATIONS OF ALL UTILITIES PRIOR TO BEGINNING WORK.
- 12. SIGNAL CABLE SHALL BE ATTACHED TO MESSENGER WIRE USING PROPER SIZE SPIRAL WRAP.
- 13. THE COST FOR THE USE OF TRAFFIC CONTROL OFFICER IN THE EVENT OF LANE CLOSURES SHALL BE INCIDENTAL TO THE WORK AND WILL NOT BE PAID SEPARATELY.
- 14. A PRECONSTRUCTION MEETING SHALL BE SCHEDULED WITH LAKE COUNTY TRAFFIC OPERATIONS, (352) 742-1766, PRIOR TO ANY CONSTRUCTION.

GENERAL NOTES:

- 15. CONTRACTOR SHALL RESTORE LANDSCAPING WHICH HAS BEEN DISTURBED BY HIS ACTIVITIES TO COMPLY WITH THE LAKE COUNTY REQUIREMENTS.
- 16. ENGINEER CERTIFICATION (IF REQUIRED) MUST BE RECEIVED WITHIN 30 DAYS OF COMPLETION OF THE PROJECT.
- 17. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE IN CONFORMANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND DESIGN STANDARDS, CURRENT EDITIONS.
- 18. ANY ITEM NOT SPECIFICALLY ADDRESSED IN THESE PLANS, USE F.D.O.T. SPECIFICATIONS.
- 19. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE POWER COMPANY, PROGRESS ENERGY, PROVIDING THE ELECTRICAL POWER TO DETERMINE IF ANY ADDITIONAL FEES ARE REQUIRED TO CONNECT POWER, AND FOR CONNECTION OF POWER. IF REQUIRED, THE FEE SHALL BE INCLUDED AS PART OF THE BID ITEM PAYMENT FOR ELECTRICAL SERVICE
- 20. CONTRACTOR SHALL CONTACT PROGRESS ENERGY AT LEAST 48 HOURS PRIOR TO INSTALLING THE SIGNAL CABLE. THE ELECTRIC DEPARTMENT PERSONNEL SHALL BE ON SITE WHEN FEEDING THE SIGNAL CABLE IN BETWEEN THE EXISTING ELECTRICAL WIRE.
- 21. SEPARATE CONDUIT AND PULL BOXES SHALL BE PROVIDED FOR LOOP WIRE, SIGNAL CABLE, AND ELECTRICAL SERVICE WIRE.
- 22. THE CONTRACTOR SHALL FURNISH, INSTALL, AND MAINTAIN TEMPORARY VEHICLE DETECTION IF LOOPS ARE TO BE DESTROYED DURING CONSTRUCTION.
- 23. UNLESS OTHERWISE NOTED, ALL REMOVED EQUIPMENT SHALL BE TURNED OVER TO THE LAKE COUNTY SIGNAL DEPARTMENT (352.742.1766).
- 24. THE MAINTENANCE OF EXISTING SIGNALS, UNTIL REMOVED, SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
- 25. THE CONTRACTOR IS REQUIRED TO INSPECT THE INSTALLATION OF THE TRAFFIC SIGNALS IN ACCORDANCE WITH THE FDOT SPECIFICATION 105-5.10. THE CONTRACTOR SHALL COORDINATE THE FINAL ACCEPTANCE INSPECTION IN ACCORDANCE WITH FDOT SPECIFICATION 611-2.2 WITH THE ENGINEER AT LEAST TEN DAYS IN ADVANCE. THE (MAINTAINING AGENCY) AND RAY MARLIN AT (386) 943-5318 SHOULD ALSO BE CONTACTED TEN DAYS BEFORE THE INSPECTION IS TO BE PERFORMED SO THEY MAY BE PRESENT.
- 26. THE CONTRACTOR SHALL NOTIFY "CALL SUNSHINE" AT 1-800-432-4770 AT LEAST 48 HOURS IN ADVANCE OF ANY EXCAVATION OR ANY WORK WHICH WOULD OTHERWISE INTERFERE WITH ANY ABOVE GROUND OR BELOW GROUND UTILITIES. IN ADDITION, THE CONTRACTOR SHALL DIRECTLY NOTIFY ALL UTILITIES WHICH ARE NOT "CALL SUNSHINE" MEMBERS, BUT WHICH MAY HAVE EXISTING FACILITIES WITHIN THE VICINITY OF THE PROJECT. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR MAINTAINING A CURRENT LOCATE TICKET THROUGHOUT THE DURATION OF THE WORK.

CONTACT:

- 27. NO LANES CLOSURE ARE ALLOWED ALONG SR 50 FROM: 6:00 A.M. 9:00 P.M.
- 28. THE FOLLOWING UTILITY CONTACT INFORMATION IS PROVIDED:

UTILITY AGENCY OWNER: LAKE APOPKA NATURAL GAS DISTRICT PROGRESS ENERGY MCI NETWORK SERVICES, INC. BRIGHT HOUSE NETWORKS, LLC LAKE COUNTY PUBLIC WORKS LAKE COUNTY SIGNAL DEPARTMENT SUNSHINE ONE-CALL

Fax 386.775.6364

PHONE:

STATE OF FLORIDA

LOOPS / PULL BOXES:

- 1. EACH LOOP SHALL BE TREATED AS AN INDIVIDUAL LOOP WITH SEPARATE LOOP LEAD-INS FROM SPLICE POINT TO CABINET TERMINAL.
- 2. F TYPE LOOPS SHALL BE 40' LONG BY 6' WIDE AND EXTEND 5' BEYOND THE STOP BAR.
- PULL BOXES AND COVERS SHALL BE FDOT APPROVED OF NONMETALLIC CONSTRUCTION WITH RECESSED COVER LOGO "TRAFFIC SIGNAL".
- 4. LOOP HOME RUNS SHALL NOT BE CUT INTO THE RADIUS.
- 5. ANY STRIPING / PAVEMENT MARKINGS DESTROYED BY CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- 6. PULL BOXES SHALL BE LOCATED 10 FEET FROM EDGE OF PAVEMENT OR BEHIND A CURB WHEN POSSIBLE, ATTEMPTING TO KEEP FROM THE BOTTOM OF A DITCH OR RETENTION AREA.
- 7. EXISTING LOOPS DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION TO BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 8. ALL NEW LOOP DETECTORS ARE TO BE INSTALLED IN CABINET PRIOR TO CUTTING THE EXISTING LOOPS.

TIMINGS / CONTROLLER:

- DELAY TIMES SHALL BE SET TO 5 SECONDS.
- 2. THE MOUNTING OF ELECTRICAL SERVICE TO THE TRAFFIC SIGNAL CABINET SHALL BE PROHIBITED.
- 3. A GENERATOR PAD, 3'X3'X4' CONCRETE SHALL BE INSTALLED; PAID FOR AS PART OF 670-5-111.

SIGNAL HEADS:

- 1. SIGNAL HEADS SHALL BE WIRED DIRECTLY TO THE TERMINAL BLOCKS. THE USE OF "JONES" PLUGS SHALL BE PROHIBITED.
- 2. VEHICLE SIGNAL HEAD ASSEMBLIES SHALL BE BLACK, CAST ALUMINUM, WITH TUNNEL VISORS, AND LED'S FOR ALL INDICATIONS, UNLESS OTHERWISE NOTED.
- 3. TRAFFIC SIGNALS HEADS FOR PHASE 4 ARE BEING REMOVED AND INSTALLED TO ACCOMMODATE RECONSTRUCTED SOUTH APPROACH TO INTERSECTION. ALL WORK TO ACCOMPLISH THIS TASK TO BE INCLUDED IN PAY ITEM 650-53, INCLUDING TWO-WAY BRACKET.

CONSTRUCTION SCHEDULE:

- 1. FULL SIGNAL OPERATION SHALL REMAIN IN PLACE AT THE EXISTING SIGNAL.
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION SCHEDULES WITH OTHER CONTRACTORS IN THE AREA.

NOTE: SIGNAL MODIFICATION PLANS DEVELOPED UTILIZING APPROVED, EXISTING SIGNAL PLANS. MODIFICATIONS MADE TO ACCOMMODATE EB RIGHT TURN LANE AND RECONSTRUCTED SOUTH APPROACH.

REVISIONS											
DATE	BY	DESCRIPTION									
II-08-07	JR	UPDATED PER FDOT COMMENTS									

Engineer of Record: Fred Ferrell P.E. PE No. 41902

Traffic Engineering Data Solutions, Inc.

DEPARTMENT OF TRANSPORTATION FINANCIAL PROJECT ID ROAD NO. COUNTY Phone 386.775.TEDS 615 N. Charles Richard Beall Blvd, Suite 10 SR 50 LAKE Debary, Fl 32713

GENERAL NOTES

SHFFT NO.

