

CONTRACT PLANS
FOR
**Ben Hill Griffin Parkway and
Everblades Blvd South/Grande Oaks Boulevard**
SIGNALIZATION PLANS
LEE COUNTY, FLORIDA

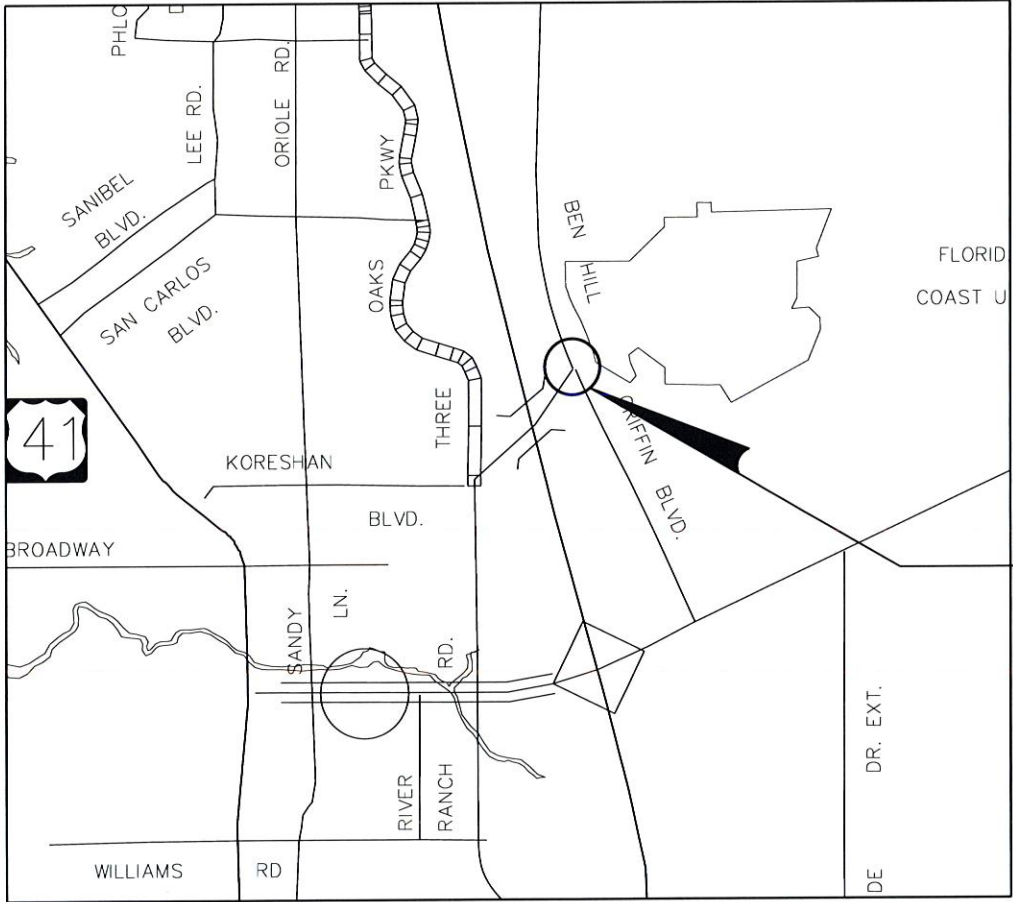
INDEX OF PLANS

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	TABULATION OF QUANTITIES
T-3	SIGNAL GENERAL NOTES
T-4	GUIDESIGN WORK SHEET
T-5	SIGNALIZATION PLAN
T-6	SIGNING AND PAVEMENT MARKING PLAN
T-7	STANDARD MAST ARM TABULATION
T-8	STANDARD MAST ARM ASSEMBLIES
T-9	REPORT OF TEST BORINGS

GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS FY 2017-18,
AND STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED JULY 2017,
AS AMENDED BY CONTRACT DOCUMENTS.



PREPARED BY:
DAVID PLUMMER & ASSOCIATES, Inc.
2149 McGregor Boulevard
Ft. Myers, Florida 33901
EB 2690



NOTE:
CONTRACTOR SHALL COMPLY WITH THE LEE COUNTY
DEPARTMENT OF TRANSPORTATION, TRAFFIC SECTION
SPECIFICATIONS AND DETAILS FOR SIGNAL EQUIPMENT,
SIGNS, PAVEMENT MARKINGS AND INSTALLATION PROCEDURES.

**Todd
Seymour**

Digitally signed by Todd Seymour
DN: cn=Todd Seymour, o, ou=David
Plummer Associates,
email=Todd.Seymour@dplummer.co
m, c=US
Date: 2017.12.05 14:30:16 -05'00'



ENGINEER OF RECORD

"THIS PLAN WAS PREPARED UNDER MY DIRECTION
AND TO THE BEST OF MY KNOWLEDGE AND BELIEF
COMPLIES WITH THE INTENT OF THE MANUAL OF
UNIFORM MINIMUM STANDARDS FOR DESIGN,
CONSTRUCTION AND MAINTENANCE FOR STREETS
AND HIGHWAYS, AS ADOPTED BY THE STATE
OF FLORIDA LEGISLATURE, CHAPTER 72-328 F.S."



ISSUING DATE: 11/30/17

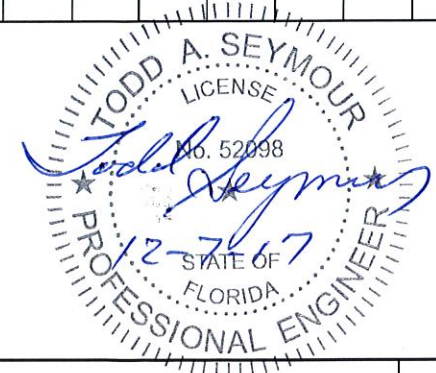
TABULATION OF QUANTITIES


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FOOTNOTES:

1. TO BE FIGURED FROM PLANS AND JOB SITE BY CONTRACTOR AND SHALL BE SUFFICIENT QUANTITY FOR COMPLETE INSTALLATION.
2. ALL HARDWARE INCIDENTAL TO THE COMPLETE SIGNALIZATION AS INDICATED ON PLAN SHEETS AND TABULATION OF SIGNAL EQUIPMENT SHEET SHALL BE INCLUDED IN THE COST OF ITEMS SUPPLIED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING A COMPLETE ASSEMBLY WHEN SPECIFIED IN THE TABULATION OF SIGNAL EQUIPMENT.

4. PAY ITEM NO. 670-2-110, CONTROLLER, SHALL COMPLY WITH THE LEE COUNTY DEPARTMENT OF TRANSPORTATION TRAFFIC SECTION SPECIFICATIONS
5. PAY ITEM No. 660-4-10, VIDEO CAMERA, SHALL BE AUTOSCOPE ENCORE OR ALDIS GRID SMART.
6. PAY ITEM No. 630-2-11 AND 630-2-12, CONDUIT, SHALL BE PAID FOR BY THE LENGTH OF THE HORIZONTAL TRENCH OR BORE LENGTH.



R E V I S I O N S				DAVID PLUMMER & ASSOCIATES, INC.		LEE COUNTY DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		2149 McGREGOR BOULEVARD FT. MYERS, FLORIDA, 33901	ROAD NO.	COUNTY				T-2
					CERTIFICATE OF AUTHORIZATION EB 2690	BEN HILL GRIFFIN /EVERBLADES PKWY	LEE				
					TODD SEYMOUR P.E. No. 52098						

SIGNAL GENERAL NOTES

1. ALL WORK EQUIPMENT, AND MATERIALS SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPT. OF TRANSPORTATION JULY 2017 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION; THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, FLORIDA DEPT. OF TRANSPORTATION FY 2017-18 DESIGN STANDARDS; AND THE LEE COUNTY DEPARTMENT OF TRANSPORTATION PLAN SPECIFICATIONS FOR SIGNALS & LIGHTING.
2. SIGNAL HEADS SHALL HAVE A MINIMUM 18.5' VERTICAL GROUND CLEARANCE.
3. BASE OF CONTROLLER TO BE SAME ELEVATION AS CENTER OF ROADWAY OR GREATER, BUT NOT MORE THAN 12" ABOVE CENTER OF ROADWAY.
4. TRAFFIC SIGNAL, LUMINAIRE & ASSOCIATED WIRING TO BE MAINTAINED BY: LEE COUNTY DEPARTMENT OF TRANSPORTATION DIVISION, TRAFFIC SECTION AFTER FINAL INSPECTION AND BURN IN PERIOD HAS BEEN SATISFACTORILY COMPLETED.
5. INSTALL ONE PIECE LOUVERED METAL BACKPLATE WITH YELLOW REFLECTORIZED BORDER ON ALL SIGNAL HEAD ASSEMBLIES PER MUTCD.
6. IN THE EVENT OF EMERGENCY OPERATION, SIGNALS 2 & 6 WILL FLASH YELLOW, SIGNALS 1,3,4,5, 7 & 8 WILL FLASH RED.
7. ALL SIGNAL CABLE AND LEAD-IN WIRE FROM PULL BOXES TO RUN UNDERGROUND OR UNDER PAVEMENT SHALL BE IN CONDUIT AS REQUIRED (2" MIN CONDUIT).
8. WORK ZONE TRAFFIC CONTROL
- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING SAFE AND EFFICIENT OPERATION OF ALL SIGNALS, AND THE SIGNALIZED MOVEMENT OF TRAFFIC WITHIN THE LIMITS OF THE PROJECTS. THIS IS TO INCLUDE DETERMINING TRAFFIC SIGNAL TIMINGS, AND ADJUSTING SIGNAL TIMINGS AS NECESSARY DURING EACH PHASE OF CONSTRUCTION.
- B. DURING EACH PHASE OF CONSTRUCTION, THE CONTRACTOR SHALL PROPERLY ALIGN HEADS.
9. SECTION 611, TRAFFIC SIGNAL ACCEPTANCE:
- SCHEDULING OF THE PARTIAL AND FINAL ACCEPTANCE INSPECTIONS SHALL BE COORDINATED WITH JAMES FENCIL, LEE COUNTY DEPT. OF TRANSPORTATION (PH. 239-533-9500), TRAFFIC OPERATIONS LIAISON(S) WITH A MINIMUM OF 48 HOURS NOTICE. RESULTS OF FIELD TEST, (i.e. SECTION 614) SHALL BE MADE AVAILABLE TO THE PROJECT ENGINEER IN WRITTEN FORM. A QUALIFIED CONTRACTOR'S REPRESENTATIVE SHALL BE PRESENT AT THE CONDITIONAL ACCEPTANCE INSPECTION OF THE CONTROLLER ASSEMBLY. THE QUALIFICATIONS OF THE REPRESENTATIVE SHALL INCLUDE:
- (A) COMPLETE FAMILIARITY WITH ALL SYSTEM ELEMENTS INCLUDING CONTROLLERS, COORDINATING UNITS, SYSTEM CLOCKS AND SYSTEM COMMUNICATIONS ELEMENTS. THE REPRESENTATIVE SHALL BE QUALIFIED TO INPUT AND RECALL ALL CONTROLLER AND SYSTEM TIMING FUNCTIONS.
10. PULL BOXES ARE TO BE PLACED BEHIND CURB AND GUTTER ; IF THERE IS NO CURB AND GUTTER, THEN PULL BOXES SHALL BE PLACE A MINIMUM OF 7' FROM THE EDGE OF PAVEMENT.
11. LEE COUNTY ELECTRIC COOP. SHALL ASSIST CONTRACTOR IN PERFORMING ALL NECESSARY WORK UNDER THEIR POWER LINES, SUCH AS THE INSTALLATION OF SIGNAL CABLE, FIBERGLASS INSULATORS AND SIGNAL POLES. CONTRACTOR SHALL NOTIFY THE POWER COMPANY AT LEAST 72 HOURS PRIOR TO INSTALLATION OF THIS EQUIPMENT.
12. UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS. CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES AT LEAST THREE DAYS PRIOR TO CONSTRUCTION. THE APPROPRIATE UTILITY COMPANY SHALL BE NOTIFIED BY THE CONTRACTOR AT LEAST TWO FULL BUSINESS DAYS PRIOR TO ANY EXCAVATION SO THAT A UTILITY COMPANY REPRESENTATIVE MAY BE PRESENT. KNOWN UTILITIES INCLUDE:


UTILITY OWNERS	PHONE NO.
LEE COUNTY ELECTRIC COOP.	(800) 599-2356
SPRINT UNITED TELEPHONE-FLORIDA	(239) 263-6205
TIME WARNER CABLE	(239) 598-1104
TECO GAS	(239) 707-8567
LEE COUNTY DOT SIGNAL MAINTENANCE	(239) 533-9500
COMCAST CABLE	(800) 432-4770
QWEST COMMUNICATIONS	(941) 661-7557
AT&T	(800) 222-3000
LEE COUNTY DOT OPERATIONS	(239) 694-3339

13. LEE COUNTY UTILITIES SHALL COORDINATE UTILITY RELOCATIONS IF NECESSARY.
14. AT LEAST TWO FULL BUSINESS DAYS PRIOR TO BEGINNING THE TRAFFIC SIGNAL INSTALLATION PERMITTEE SHALL CONTACT:
- MR. JAMES FENCIL
LEE COUNTY DEPARTMENT OF TRANSPORTATION
5650 ENTERPRISE PKWY
FT. MYERS, FL 33905
PH. (239) 707-4870
15. CONTRACTOR SHALL PROVIDE ALL LABOR AND MATERIALS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION.
16. SUBMITTAL DATA FOR ALL PERMIT JOBS MUST BE DONE IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION) SECTION 603 TRAFFIC CONTROL DEVICES AND F.D.O.T. MINIMUM SPECIFICATIONS FOR TRAFFIC CONTROL SIGNAL DEVICES (LATEST EDITION).
17. LEE COUNTY DEPARTMENT OF PUBLIC WORKS TRANSPORTATION DIVISION, TRAFFIC SECTION, SHALL BE PROVIDED WITH TWO SETS OF "AS BUILT" PLANS BY THE CONTRACTOR.
18. TIMINGS ARE INITIAL AND MAY REQUIRE FIELD ADJUSTING. FINAL CONTROLLER TIMINGS TO BE DETERMINED BY LEE COUNTY DEPARTMENT OF PUBLIC WORKS TRANSPORTATION DIVISION, TRAFFIC SECTION.
19. EXTREME CARE SHALL BE TAKEN TO INSURE THAT ALL SIGNAL EQUIPMENT IS INSTALLED AS SHOWN IN PLANS WITHIN EXISTING RIGHT-OF-WAY. IN THE EVENT THAT EXISTING UTILITIES OR OTHER PHYSICAL CONDITIONS NECESSITATE INSTALLATION OF ANY SIGNAL EQUIPMENT OUTSIDE OF RIGHT-OF-WAY, IT WILL BE THE RESPONSIBILITY OF THE PERMITTEE TO ACQUIRE ALL NECESSARY LEGAL, PERPETUAL EASEMENTS PRIOR TO INSTALLATION OF SAID EQUIPMENT.
20. INFORMATION REQUIRED FOR ACQUISITION OF EASEMENTS CONSIST OF:
1. A SURVEY SKETCH OF THE AREA TO BE DONATED, WHICH IS PREPARED AND CERTIFIED BY A LICENSED PROFESSIONAL LAND SURVEYOR.
2. A LEGAL DESCRIPTION WHICH CONFORMS TO THE SURVEYOR'S SKETCH OF THE AREA TO BE DONATED AND WHICH IS ADEQUATE FOR USE IN DEEDS OF CONVEYANCE.
3. A TITLE SEARCH (LESS THAN SIX MONTHS OLD) CERTIFIED BY AN ABSTRACT COMPANY WHICH RELATES TO THE PARENT TRACT OF THE PARCEL TO BE DONATED TO THE DEPARTMENT. COPIES OF THESE EASEMENTS SHALL BE SENT TO:
- LEE COUNTY ATTORNEY
P.O. BOX 398
FT. MYERS, FL 33902
21. THE PERMITTEE SHALL SECURE, UPON PRIOR APPROVAL FROM THE DEPARTMENT, THE SERVICES OF A QUALIFIED CONSULTANT IN ACCORDANCE TO CHAPTER 471, FLORIDA STATUTES, TO PERFORM CONSTRUCTION ENGINEERING & INSPECTION SERVICES FOR THE INSTALLATION OF THE TRAFFIC SIGNAL AND TO CERTIFY THAT ALL WORK HAS BEEN DONE IN ACCORDANCE WITH THE DEPARTMENT'S STANDARDS, SPECIFICATIONS, PERMIT REQUIREMENTS AND ALL APPLICABLE FEDERAL, STATE AND LOCAL STATUTES, RULES AND REGULATIONS. IN ADDITION, THE ON-SITE INSPECTOR SHALL BE IMSA LEVEL II CERTIFIED.
22. DURING TRAFFIC SIGNAL FLASHING OPERATION, THE RED ARROW INDICATION OF ALL 3-SECTION LEFT TURN HEADS SHALL BE THE FLASHING INDICATION DISPLAYED.
23. INSTALL RED, YELLOW AND GREEN LED'S ON ALL SIGNAL HEAD FACES.
24. ALL PEDESTRIAN SIGNAL HEADS SHALL BE OF THE SAME MANUFACTURE, MODEL & LED TYPE WITH COUNTDOWN DISPLAYS.
25. ALL CONTROLLERS AND CABINETS SHALL COMPLY TO THE LEE COUNTY DEPARTMENT OF TRANSPORTATION SECTION SPECIFICATIONS (LATEST EDITION).
26. THE CONTRACTOR SHALL DELIVER THE CABINET, CONTROLLER, AND CONFLICT MONITOR TO THE LEE COUNTY DEPARTMENT OF TRANSPORTATION TRAFFIC SECTION FOR THE SET UP OF NEW SIGNAL CABINET/CONTROLLERS/CAMERAS. A MINIMUM OF 48 HOURS NOTICE IS REQUIRED. THE CONTRACTOR SHALL HAVE A QUALIFIED REPRESENTATIVE PRESENT IN THE FIELD DURING THE SETUP OF THE TRAFFIC SIGNAL CONTROLLER.
27. CONTRACTOR SHALL INSTALL TEMPORARY W3-3 "SIGNAL AHEAD" WARNING SIGNS PRIOR TO SIGNAL ACTIVATION FOR NORTH AND SOUTHBOUND BEN HILL GRIFFIN PARKWAY. SIGNS SHALL REMAIN POSTED FOR 90 DAY OR AS DIRECTED BY THE LEE COUNTY ENGINEERING DEPT.
28. TWO WEEKS BEFORE SIGNAL BECOMES OPERATIONAL, FOUR (4) VMS PANELS WILL BE REQUIRED. MESSAGE TO BE PROVIDED BY LCDOT.

PAY ITEM GENERAL NOTES

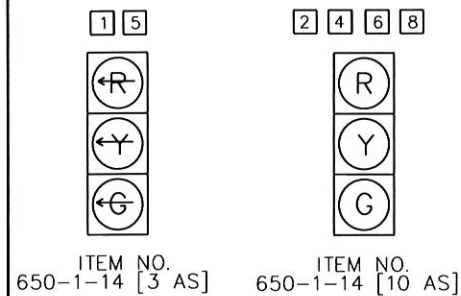
1. 522-2
PAYMENT SHALL INCLUDE THE COST OF SAWCUTTING, REMOVALS AND RESTORATION.
2. 630-2-12
PAYMENT SHALL INCLUDE THE COST OF TRENCHING AND ALL CONDUIT IN TRENCH.
3. ALL CONDUIT UNDER PROPOSED ROADWAY AND/OR SIDEWALK SHALL BE INSTALLED PRIOR TO INSTALLATION OF ROADWAY BASE AND SURFACE OR CONCRETE.
- 632-7-1
THIS ITEM SHALL INCLUDE ALL LABOR AND WIRE NECESSARY FOR COMPLETE WIRING OF INTERSECTION.
- 635-2-11 (SIGNAL)
CONTRACTOR IS RESPONSIBLE FOR APPROPRIATELY SIZING EACH PULL BOX SO THE COMMUNICATION CABLE DOES NOT EXCEED MANUFACTURERS RECOMMENDED BENDING
5. RADIUS. PULL BOXES SHALL BE QUAZITE WITH QUAZITE COVER MARKED TRAFFIC SIGNAL (NO METAL COVERS SHALL BE USED) OR APPROVED EQUAL.
- 639-1-121
ELECTRICAL SERVICE SHALL BE A MINIMUM 60 AMP 120/240 VOLT THREE WIRE MAIN WITH A CIRCUIT BREAKER OF 30 AMP FOR THE CONTROLLER CABINET, ONE (1) CIRCUIT BREAKER OF 15 AMP FOR INTERNALLY ILLUMINATED STREET NAME SIGNS AND ONE (1) BRANCH CIRCUIT BREAKER FOR THE LUMINARIES. (SEE THE LEE COUNTY DEPARTMENT OF TRANSPORTATION PLAN SPECIFICATIONS FOR SIGNALS & LIGHTING.).
- 639-2-1
PAYMENT SHALL BE BASED ON THE LINEAR FOOT OF A SINGLE CONDUCTOR.
7. IN ADDITION TO THREE SERVICE WIRES, THIS ITEM SHALL INCLUDE A BONDING WIRE FROM ELECTRICAL SERVICE POINT TO CONTROLLER.
8. 653-191
PEDESTRIAN SIGNALS SHALL BE SINGLE-SECTION, COUNTDOWN DISPLAY, L.E.D. HEADS MOUNTED SIDE BY SIDE.
9. 660-4-11 & 660-4-12
AUTOSCOPE SOLO TERRA IS THE PREFERRED VIDEO DETECTION. ANY OTHER TYPE MUST BE APPROVED BY LEE COUNTY DEPARTMENT OF TRANSPORTATION, TRAFFIC ENGINEER.
10. 670-5-110
THIS ITEM IS A TS-2 WITH AC-3 TRAFFIC CONTROL CABINET PER LEE COUNTY SPECIFICATIONS. CABINET SHALL BE INSTALLED ON A QUAZITE BASE AND SHALL BE INCLUDED IN THE COST. THE CONTROLLER SHALL HAVE INSTALLED A GEN-TRAN TRANSFER SWITCH PART No. TS300-132, OPL-30. ALL INSTALLATION SHALL COMPLY WITH THE LEE COUNTY DEPARTMENT OF TRANSPORTATION PLAN SPECIFICATIONS FOR SIGNALS & LIGHTING.
11. 700-5-21
ALL INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE LED. SIGNS SHALL BE MOUNTED TO THE MAST ARM POLE. CONNECT INTERNALLY ILLUMINATED STREET NAME SIGN CONDUCTORS TO A DEDICATED 15 AMP CIRCUIT BREAKER SEPARATE FROM THE TRAFFIC SIGNAL BREAKER INSIDE THE ELECTRICAL SERVICE DISCONNECT BOX WITH PHOTO CELL.
12. FOR FULL SPECIFICATIONS AND DETAILS, THE CONTRACTOR SHALL REFER TO THE LEE COUNTY DEPARTMENT OF TRANSPORTATION PLAN SPECIFICATIONS FOR SIGNALS & LIGHTING.



REVISIONS				DAVID PLUMMER & ASSOCIATES, INC.		LEE COUNTY DEPARTMENT OF TRANSPORTATION			SIGNAL GENERAL NOTES		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		2149 McGREGOR BOULEVARD FT. MYERS, FLORIDA, 33901 CERTIFICATE OF AUTHORIZATION EB 2690 TODD SEYMOUR P.E. No. 52098	ROAD NO.	COUNTY				T-3
					BEN HILL GRIFFIN /EVERBLADES PKWY	LEE					
									\$USER\$	\$DATE\$	\$TIME\$

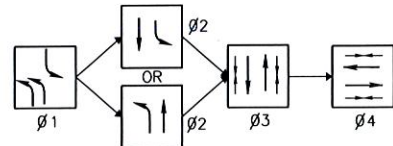
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SIGNAL HEAD DETAILS

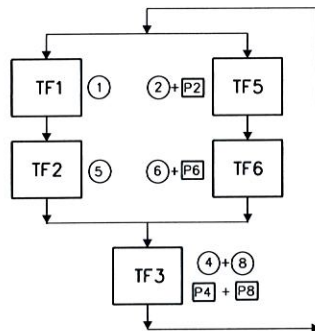


SIGNAL OPERATING PLAN

PHASE MOVEMENT DIAGRAM



RING DIAGRAM



CONTROLLER OPERATIONS

- MAJOR STREET IS BEN HILL GRIFFIN PKWY, PHASE 2 (MOVEMENTS 2 & 6) MINOR STREET IS EVERBLADES PKWY/GRANDE OAKS BLVD PHASE 3 (MOVEMENTS 4 & 8).
- SIGNAL OPERATING PLAN No. 2 WITH THE FOLLOWING:
 - D4-4 CONTROLLER WITH TYPE V CABINET.
 - COORDINATION ON PHASE 2 (MOVEMENTS 2 & 6) WITH BACKUP TIME-BASE COORDINATION.
 - CONCURRENT PEDESTRIANS MOVEMENTS FOR 2 (P2) & 6 (P6). ACTUATED PEDESTRIANS MOVEMENTS FOR 4 (P4) & 8 (P8).
 - THE CONTROLLER CABINET SHALL BE WIRED IN ACCORDANCE WITH THE SIGNAL OPERATING PLAN
- FLASHING OPERATION TO BE:
 - YELLOW ON BEN HILL GRIFFIN PKWY (MOVEMENTS 2 & 6).
 - RED ON EVERBLADES PKWY/GRANDE OAKS BLVD (MOVEMENT 4 & 8).

CONTROLLER TIMINGS						
TIMING FUNCTION	1	2	3	4	5	6
MOVEMENT NO.	1	2	8	4	5	6
MINIMUM GREEN (INITIAL)						
EXTENSION (PASSAGE)						
MAXIMUM GREEN (AM)						
MAXIMUM GREEN (PM)						
YELLOW CLEAR						
ALL RED CLEAR						
PEDESTRIAN "WALK"						
PEDESTRIAN CLEAR						
RECALL		MIN				MIN

TIMING SHOWN ARE INITIAL TURN ON TIMING FINAL TIMING TO BE DETERMINED BY LEE COUNTY DEPT. OF TRANS.

Ben Hill Griffin

ITEM NO. 700-5-22 [4 EA]

Everblades Pkwy

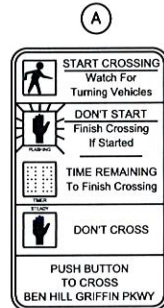
ITEM NO. 700-5-22 [2 EA]

Grande Oaks Blvd

ITEM NO. 700-5-22 [2 EA]



PED. SIGNAL COUNT-DOWN
1-SECT., 1-WAY
653-1-12 [8 AS]



FTP-68B-06
(9"x15")
TO BE INCLUDED
IN THE COST OF
665-1-11 [4 EA]



FTP-68B-06
(9"x15")
TO BE INCLUDED
IN THE COST OF
665-1-11 [2 EA]



FTP-68B-06
(9"x15")
TO BE INCLUDED
IN THE COST OF
665-1-11 [2 EA]

DETECTORS FOR VIDEO			
MOVEMENTS	NO. OF LANES	NO. OF CAMERAS	NO. OF DETS.
DZ-1	1		1
DZ-6	3	1	1
DZ-5	2		1
DZ-2	3	1	1
DZ-7	1		
DZ-4	1	1	1
DZ-4R	1		
DZ-3	1		
DZ-8	1	1	1
DZ-8R	1		

INSTALL SIGNAL CONTROLLER
STA. 8+98, 70' LT
635-2-12 [5 EA]
670-5-110 [1 AS]
685-106 [1 EA]
685-120 [1 EA]
685-128 [1 EA]

INSTALL PED SIGNAL
STA. 9+40, 72' LT
630-2-12 [10 LF]
635-2-12 [1 EA]
653-1-12 [1 AS]
646-1-11 [1 EA]
665-1-11 [1 EA]

INSTALL MAST ARM
STA. 9+05, 70' LT
(5 REQ'D) 630-2-12 [10 LF]
635-2-11 [2 EA]
(54') 649-21-10 [1 EA]
660-4-11 [1 EA]
660-4-12 [1 EA]

INSTALL STUB SERVICE POLE
STA. 8+90, 69' LT
630-2-12 [10 LF]
635-2-12 [2 EA]
639-1-121 [1 AS]
639-3-11 [1 EA]
641-2-12 [1 EA]

INSTALL PED SIGNAL
STA. 10+70, 74' LT
630-2-12 [10 LF]
635-2-12 [1 EA]
653-1-12 [1 AS]
646-1-11 [1 EA]
665-1-11 [1 EA]

INSTALL MAST ARM
STA. 10+84, 83' LT
(78') 649-21-21 [1 EA]
635-2-11 [2 EA]
660-4-11 [1 EA]
660-4-12 [1 EA]

10' P.U.E.
EASEMENT LINE
EXIST. SWK (TO REMAIN)

EVERBLADES PKWY

10' P.U.E.
EASEMENT LINE

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685-128 [1 EA]

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STA. 9+05, 70' LT
(5 REQ'D) 630-2-12 [10 LF]
635-2-11 [2 EA]
(54') 649-21-10 [1 EA]
660-4-11 [1 EA]
660-4-12 [1 EA]

INSTALL STUB SERVICE POLE
STA. 8+90, 69' LT
630-2-12 [10 LF]
635-2-12 [2 EA]
639-1-121 [1 AS]
639-3-11 [1 EA]
641-2-12 [1 EA]

INSTALL PED SIGNAL
STA. 10+70, 74' LT
630-2-12 [10 LF]
635-2-12 [1 EA]
653-1-12 [1 AS]
646-1-11 [1 EA]
665-1-11 [1 EA]

INSTALL MAST ARM
STA. 10+84, 83' LT
(78') 649-21-21 [1 EA]
635-2-11 [2 EA]
660-4-11 [1 EA]
660-4-12 [1 EA]

10' P.U.E.
EASEMENT LINE
EXIST. SWK (TO REMAIN)

EVERBLADES PKWY

10' P.U.E.
EASEMENT LINE

INSTALL PED SIGNAL
STA. 9+40, 72' LT
630-2-12 [10 LF]
635-2-12 [1 EA]
653-1-12 [1 AS]
646-1-11 [1 EA]
665-1-11 [1 EA]

INSTALL SIGNAL CONTROLLER
STA. 8+98, 70' LT
635-2-12 [5 EA]
670-5-110 [1 AS]
685-106 [1 EA]
685-120 [1 EA]
685-128 [1 EA]

INSTALL MAST ARM
STA. 9+05, 70' LT
(5 REQ'D) 630-2-12 [10 LF]
635-2-11 [2 EA]
(54') 649-21-10 [1 EA]
660-4-11 [1 EA]
660-4-12 [1 EA]

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STA. 8+90, 69' LT
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670-5-110 [1 AS]
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685-128 [1 EA]

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(5 REQ'D) 630-2-12 [10 LF]
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670-5-110 [1 AS]
685-106 [1 EA]
685-120 [1 EA]
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(5 REQ'D) 630-2-12 [10 LF]
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INSTALL SIGNAL CONTROLLER
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635-2-12 [5 EA]
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10' P.U.E.
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EXIST. SWK (TO REMAIN)

EVERBLADES PKWY

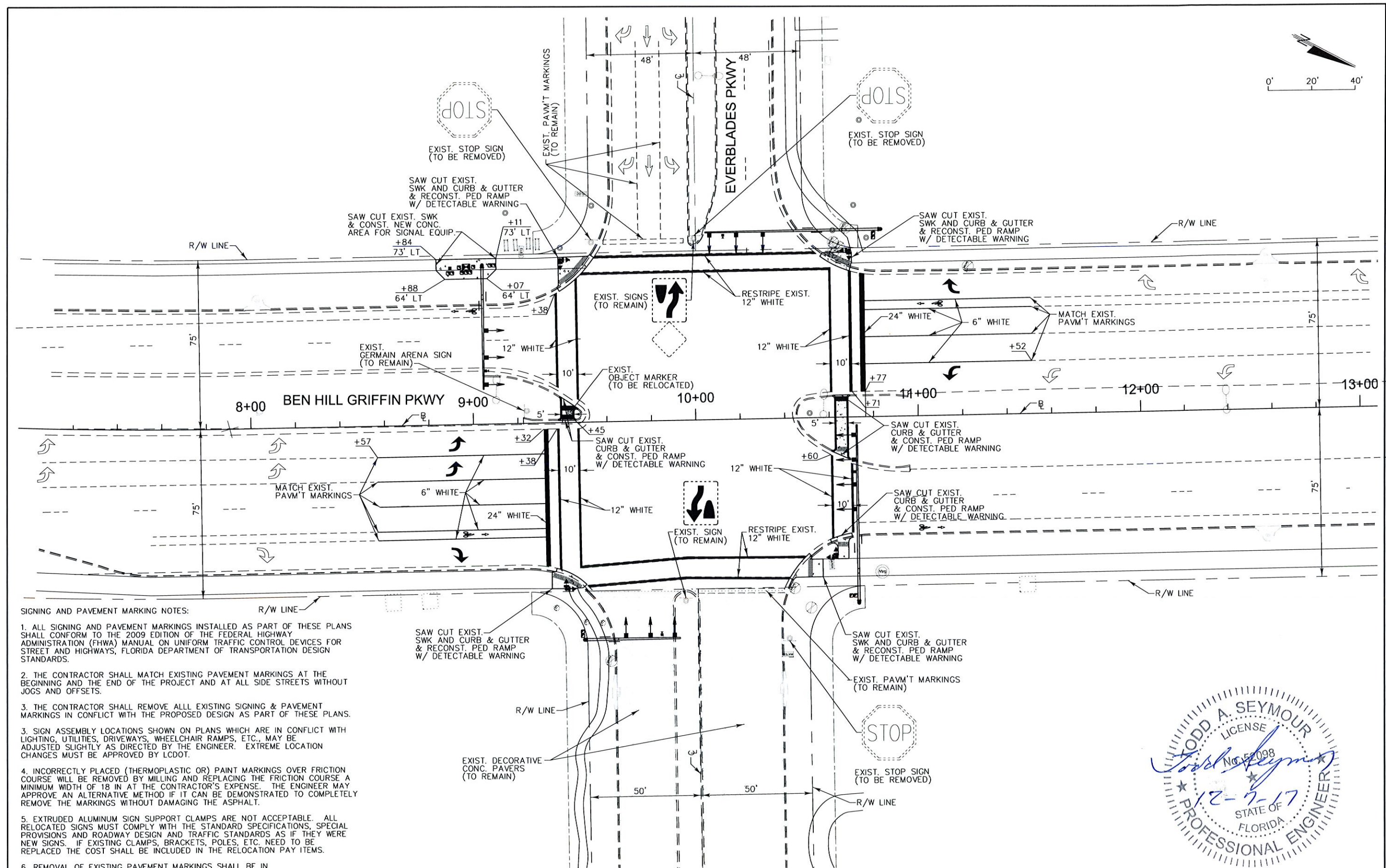
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EASEMENT LINE

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INSTALL STUB SERVICE POLE
STA. 8+90, 69' LT
630-2-12 [10 LF]<



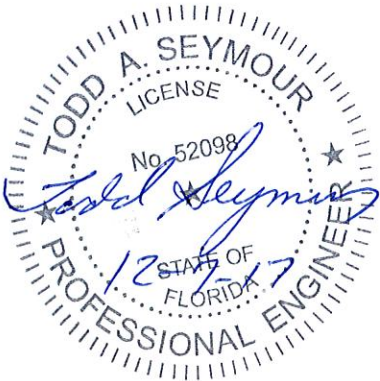
ACCORDANCE WITH THE APPROVED LEE COUNTY REMOVAL METHOD.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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STANDARD MAST ARM ASSEMBLIES DATA TABLE											Table Date 11-01-16
STRUCTURE ID NUMBERS	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.)	
A	A60/S - P4/S	A60/S	29.5					P4/S	22.5	19.5	DS/16/4.5
B	A50/S - P3/S	A50/S	24.5					P3/S	22	19	DS/14/4.5
C	A78/S - P6/S	A78/S	39					P6/S	22	19	DS/18/5.0
D	A78/S - P6/S	A60/S	39					P6/S	22	19	DS/18/5.0

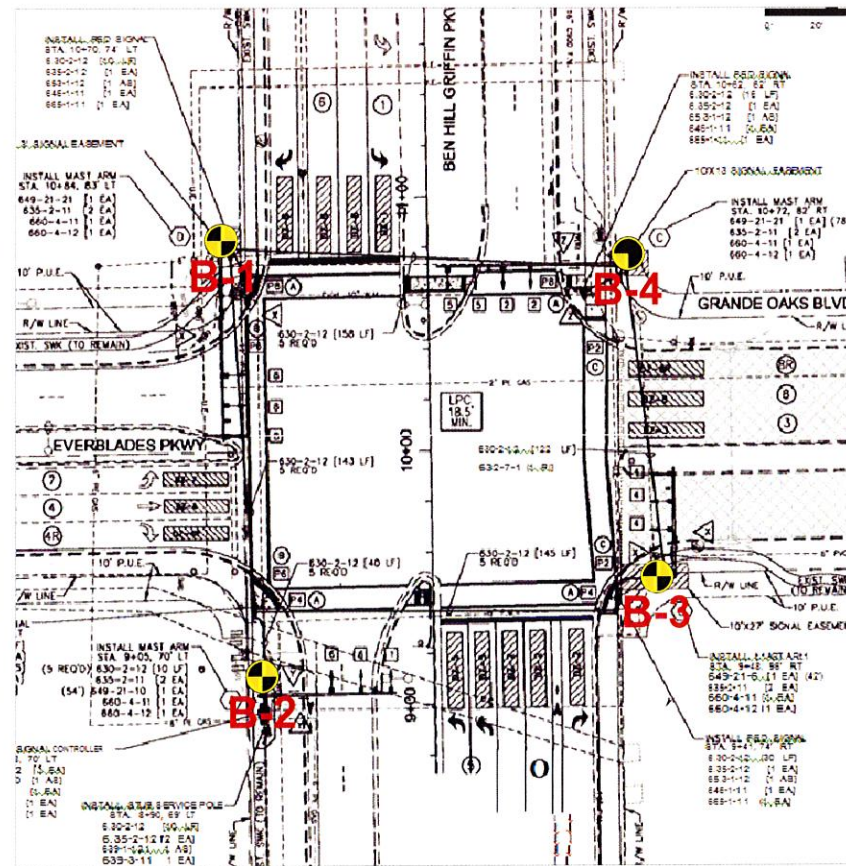
NOTES [Notes Date 11-01-16]:

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. Arm mounting height UB must be between 18-22 feet.
4. Pole types P2 and larger require a minimum 4.5 foot diameter drilled shaft. Pole types P5 and larger require a minimum 5.0 foot diameter drilled shaft.
5. 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.
6. Work with Index 17743 and 17745.



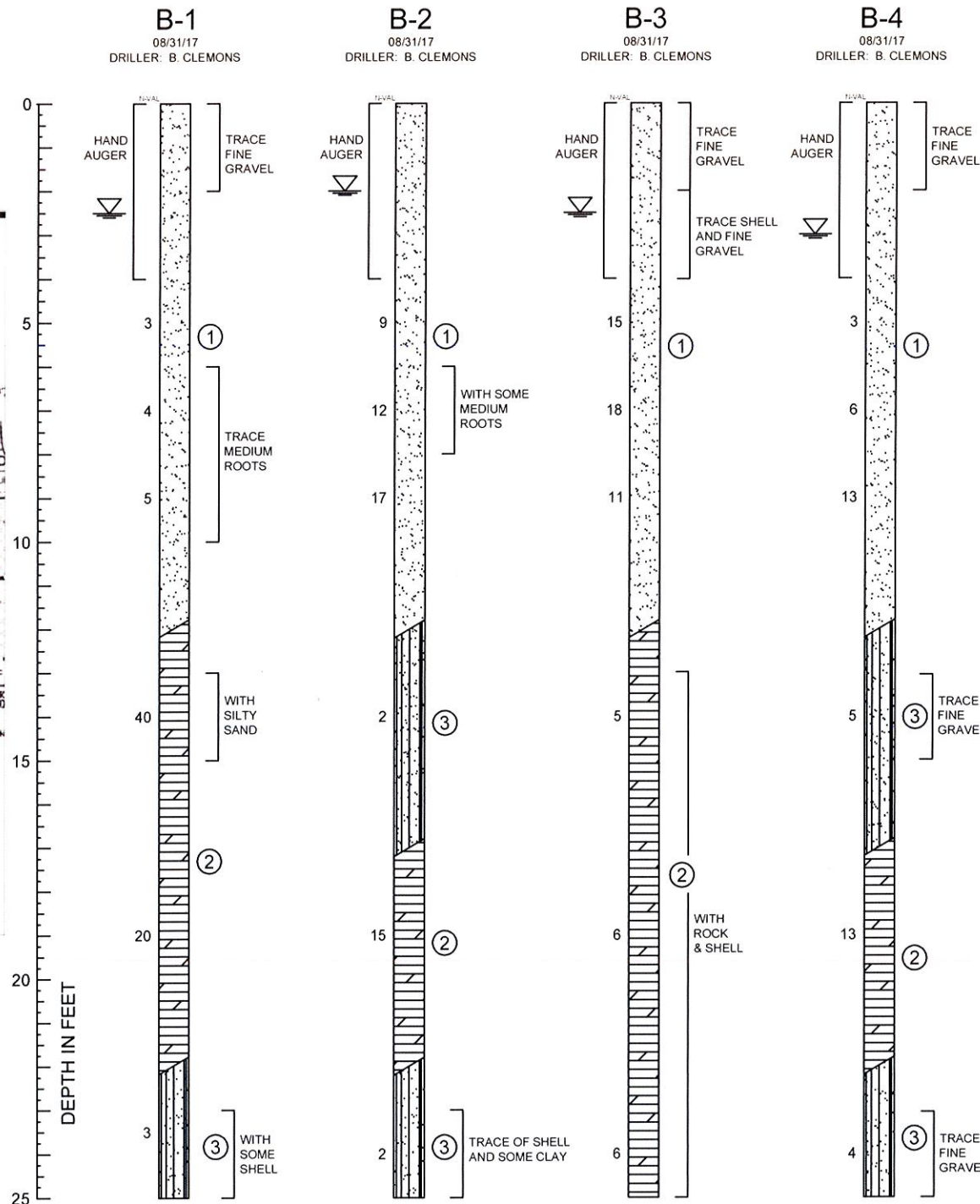
R E V I S I O N S				DAVID PLUMMER & ASSOCIATES, INC.		LEE COUNTY DEPARTMENT OF TRANSPORTATION			STANDARD MAST ARM ASSEMBLIES				SHEET NO.			
DATE	DESCRIPTION		DATE	DESCRIPTION			2149 MCGREGOR BOULEVARD FT. MYERS, FLORIDA, 33901		ROAD NO.		COUNTY					
							CERTIFICATE OF AUTHORIZATION EB 2690		BEN HILL GRIFFIN		LEE			T-8		
							TODD SEYMOUR P.E. No. 52098		/EVERBLADES PKWY							
												\$USER\$		\$DATE\$	\$TIME\$	\$FILE\$

TEST LOCATION PLAN



NOTES: SPT BORING LOCATION

SOIL PROFILES



SOIL LEGEND

- ① Light brown to brown, gray, SAND, ver loose to medium dense (SP)
- ② Gray, WEATHERED LIMESTONE, very soft to soft (WLS)
- ③ Gray, SILTY SAND, very loose to loose (SM)

SOIL PROFILE LEGEND NOTES

B-X = BORING NUMBER

N = SPT TEST VALUE

GROUND WATER LEVEL

INDICATES PRACTICAL REFUSAL TO BORING EQUIPMENT

H = INDICATES GRADUAL TRANSITION IN SOIL TYPES

N - STANDARD PENETRATION RESISTANCE TEST (SPT) VALUE. NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12-INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).

ALL ELEVATIONS BASED ON EXISTING GROUND LEVEL.

WOH = WEIGHT OF HAMMER

LFC = LOSS OF DRILLING FLUID CIRCULATION

SOIL CLASSIFICATION

CORRELATION OF N - VALUES WITH RELATIVE DENSITY AND CONSISTENCY

COHESIONLESS SOIL

N - VALUE	RELATIVE DENSITY
0 - 3	VERY LOOSE
4 - 8	LOOSE
9 - 24	MEDIUM DENSE
25 - 40	DENSE
OVER 40	VERY DENSE

SILTS AND CLAYS

N - VALUE	CONSISTENCY
0 - 1	VERY SOFT
2 - 4	SOFT
5 - 6	FIRM
7 - 12	STIFF
13 - 24	VERY STIFF
OVER 24	HARD

CORRELATION OF N - VALUES WITH HARDNESS DESCRIPTION

LIMESTONE

N - VALUE	RELATIVE DENSITY
0 - 19	VERY SOFT
20 - 49	SOFT
50 - 100	MEDIUM HARD
50 FOR 3 TO 5"	MODERATELY HARD
50 FOR 0 TO 2"	HARD

APPROXIMATE

FINES

CONTENT

MODIFIERS

5% TO 15%

16% TO 25%

26% TO 49%

VERY SILTY OR VERY CLAYEY

APPROXIMATE

SHELL

CONTENT

MODIFIERS

0% TO 5%

6% TO 12%

13% TO 30%

31% TO 50%

VERY SHELLY

APPROXIMATE

ORGANIC CONTENT

MODIFIERS

0% TO 5%

5% TO 20%

20% TO 75%

75% TO 100%

WITH A TRACE

WITH SOME

WITH AND

DEFINITION OF DESCRIPTIVE TERMS OF MODIFIERS FOR SILTS/CLAYS/SHELLS/GRAVELS ARE DESCRIBED AS FOLLOWS :

PERCENTAGE OF MODIFIER MATERIAL

0 - 5

5 - 12

12 - 30

30 - 50

FIRST QUALIFIER

WITH A TRACE OF + MODIFIER

SLIGHTLY + MODIFIER + Y

MODIFIER + Y

VERY + MODIFIER + Y

SECOND QUALIFIER

WITH A TRACE

WITH SOME

WITH AND

Boring No.	Stratum	Depth (ft)	Unit Weight (moist) (pcf)	Angle of Internal Friction (°)	Cohesion Cu (psf)	Modulus of Subgrade Reaction (ksi)	USCS
B-1	1	0 - 10	110	30	-	25	SP
	2	10 - 20	130	32	300	35	WLS
	3	20 - 25	100	27	150	20	SM
B-2	1	0 - 10	110	30	-	25	SP
	3	10 - 18	100	27	150	20	SM
	2	18 - 23	115	32	250	35	WLS
B-3	1	0 - 10	110	30	-	25	SP
	2	10 - 25	115	32	250	35	WLS
	1	0 - 12	110	30	-	25	SP
B-4	3	12 - 22	115	32	250	35	WLS
	2	22 - 25	100	27	150	20	SM

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



GFA INTERNATIONAL, INC.
5851 COUNTRY LAKES DRIVE
FORT MYERS, FLORIDA 33905

DRAWN BY: CAC

Paul J. D'huyvetter P.E. #59716

LEE COUNTY DEPARTMENT OF PUBLIC WORKS

ROAD NAME	COUNTY NAME	PROJECT ID
Ben Hill Griffin	LEE	16-1454

REPORT OF TEST BORINGS

MAST ARM SIGNALIZATION
ESTERO, LEE COUNTY, FLORIDA

SHEET NO.

T-9