LAKE COUNTY CONTRACT PLANS

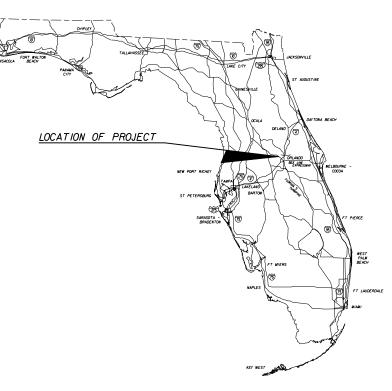
SIGNALIZATION PLANS

SR 50 AND OAKLEY SEAVER DR.

INDEX OF SIGNALIZATION PLANS

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GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
ROADWAY AND TRAFFIC DESIGN STANDARDS
DATED JANUARY 2004, AND
STANDARDS SPECIFICATIONS FOR ROAD AND BRIDGE
CONSTRUCTION DATED 2004
AS AMENDED BY CONTRACT DOCUMENTS.



SIGNALIZATION SHOP DRAWINGS TO BE SUBMITTED TO:

Andrew J. Ames, P.E.
3751 Maguire Boulevard, Suite III
0rlando, FL 32803
Phone: 407-898-5424 Fax: 407-898-5425

PLANS PREPARED BY:



GMB Engineers & Planners, Inc.

3751 Maguire Boulevard, Suite III Orlando, FL 32803 Phone: 407-898-5424 Fax: 407-898-5425

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

	KEY SHEET REVISIONS DATE BY DESCRIPTION												
DATE	BY	DESCRIPTION											
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SIGNALIZATION PLANS
ENGINEER OF RECORD: ANDREW J. AMES, P.E.

P.E. NO. 52570

SHEET NO.

T-I

TABULATION OF QUANTITIES

NO. T-2

									SHEET I	NUMBERS								AND	RI
PAY ITEM NO.	DESCRIPTION	UNIT	7	-4	T-	-5	T		7	-7					T		TO	TAL	SH
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
102-1	MAINTENANCE OF TRAFFIC	LS	1		<u> </u>												1		
102-99	SIGN, VARIABLE MESSAGE (TEMPORARY)	ED	28														28		
555-1-1	DIRECTIONAL BORE (DIA. LESS THAN 6")	LF	225		210		100										535		
630-1-12	CONDUIT (F & I) (UNDERGROUND)	LF .	990		650		400										2040		
632-7-1	CABLE (SIGNAL) (F & I)	PI	1														1	-	
632-8-212	CABLE (INTERCONNECT) (I-25) (F&I) (UNDERGROUND)	LF			946		550							l			1496		
634-4-II2	SPAN WIRE ASSEMBLY (F & I) (2 WIRE) (DIAGONAL)	PI	1														1		
634-5-1	FIBERGLASS INSULATOR (F & I)	LF	20														20		
635-1-11	PULL AND JUNCTION BOXES (F & I) (PULL BOX)	EA	//														//		
635-1-15	PULL AND JUCTION BOXES (F&I) (FIBER OPTICS)	EA			7		3										10		
639-1-22	ELECTRICAL POWER SERVICE (UNDERGROUND)	AS	1												1		1		
6.39-2-1	ELECTRICAL SERVICE WIRE (F & I)	LF	150														150		
641-16-144	PRESTRESSED CONCRETE POLES (F & I - WITH FOUNDATION) (TYPE N-VII) (44')	EA	2														2		
650-51-311	TRAFFIC SIGNAL, STANDARD (F & I) (3 SECTION, I WAY)	AS	10														10		
659-101	SIGNAL HEAD AUXILIARIES (F & I) (BACK PLATES, 3-SECTION)	EA	6														6		
660-1-109	INDUCTIVE LOOP DETECTOR (F & I) (TYPE 9, 2 CH, SS, RM)	EA	7														7		
660-1-110	INDUCTIVE LOOP DETECTOR (F & I) (TYPE 10, 2 CH, SS, RM, TD)	EA	2													1	2		
660-2-102	LOOP ASSEMBLY (F & I) (TYPE B) (6' X 6')	AS	8												1		8		
660-2-106	LOOP ASSEMBLY (F & I) (TYPE F) (6' X 40')	AS	5														5		
663-74-11	VEHICLE DETECTOR ASSEMBLES (F & I) (OPTICAL TYPE)	EA	2														2		
670-5-111	ACTUATED SOLID STATE CONTROLLER ASSEMBLY (F & I) (NEMA) (I Pre-empt)	AS	1														1		
670-5-410	ACTUATED SOLID STATE CONTROLLER ASSEMBLY (MODIFY) (NEMA)	AS					1										1		
699-1-1	SIGN, INTERNALLY ILLUMINATED	EA	4														4		
700-40-1	SIGN SINGLE POST (LESS THAN 12)	AS							2								2		
700-46-11	SIGN EXISTING (REMOVE) (SINGLE POST)	AS							3								3		
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS	EA							12								12		
711-4	DIRECTIONAL ARROWS (THERMOPLASTIC)	EA							4								4		
711-7	REMOVE EXISTING PAVEMENT MARKINGS (THERMOPLASTIC)	SF							132								132		
711-35-61	SOLID TRAFFIC STRIPE (THERMOPLASTIC) (6" WHITE)	LF							205.5								205.5		
711-35-241	SOLID TRAFFIC STRIPE (THERMOPLASTIC) (24" WHITE)	LF							139								139		
					1														

PAY ITEM NOTES:

I. LUMP SUM MAINTENANCE OF TRAFFIC SHALL INCLUDE ALL COSTS ASSOCIATED WITH THE MAINTENANCE OF TRAFFIC IN THE WORK ZONE.

THIS INCLUDES SIGNS, WARNING DEVICES AND ALL OTHER ITEMS REQUIRED FOR THE INSTALLATION OF THE TRAFFIC SIGNAL.

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		NAME	DATE		NAME	DATE
		DESCRIPTION	DATE		DESCRIPTION	D/11/2		DESCRIPTION	DESIGNED BY	CNC	7/04	DRAWN BY	CNC	7/04
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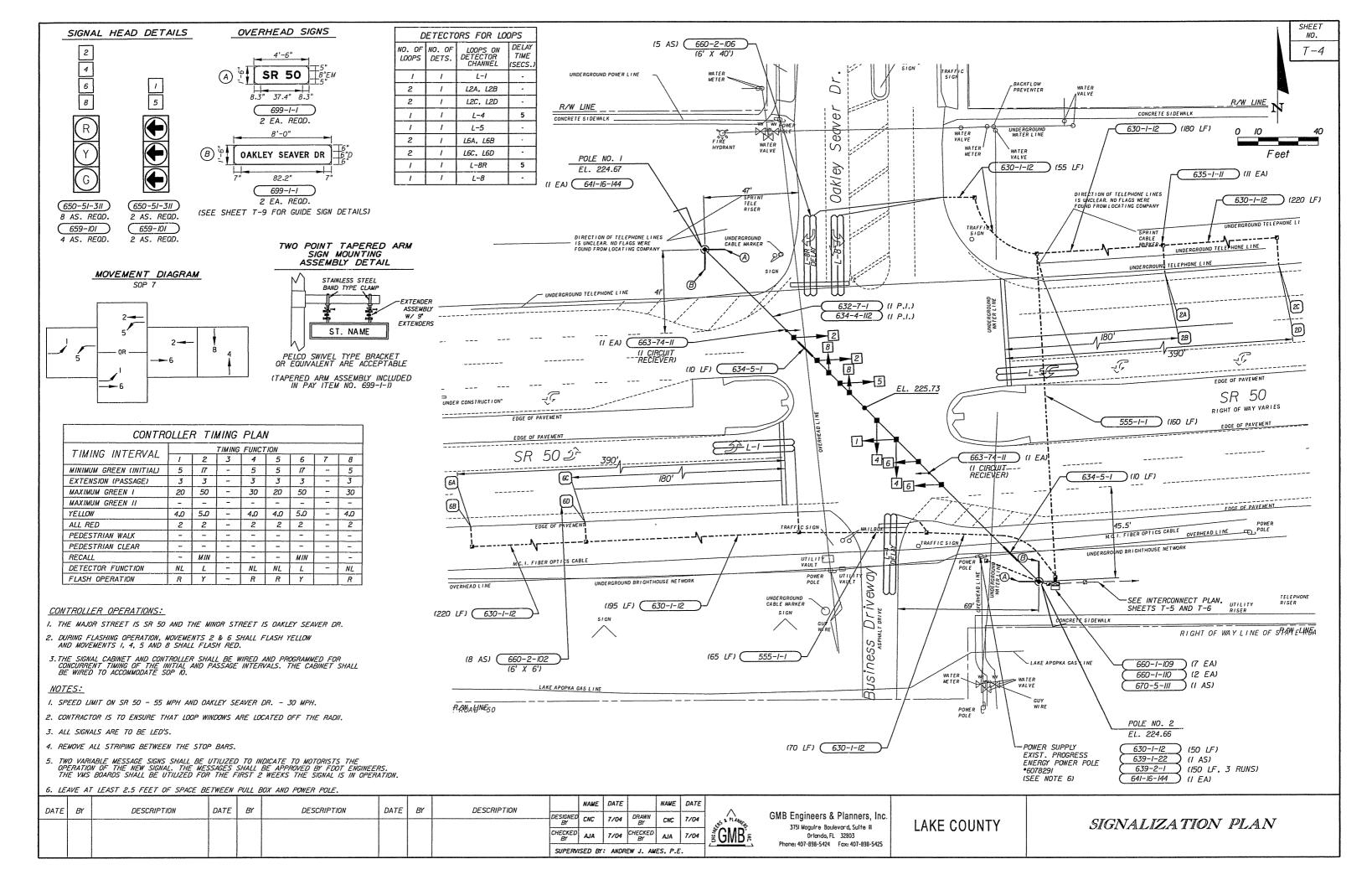
GENERAL NOTES

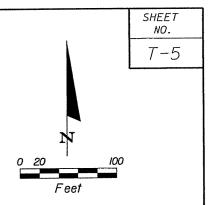
- I. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING AND TRENCHING AND/OR WHERE POLE INSTALLATIONS ARE LOCATED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS IN ACCORDANCE WITH SECTION 2-4 OF THE SPECIFICATIONS. THE CONTRACTOR SHALL HAND DIG THE FIRST 4' AT EACH POLE LOCATION TO VERIFY NO UTILITY CONFLICT.
- 2. ALL CONDUIT EXCEPT ELECTRICAL POWER SERVICE CONDUIT SHALL BE 2 INCH MINIMUM UNLESS OTHERWISE SPECIFIED IN THE PLANS.
- 3. PULL BOXES SHALL BE PLACED BEHIND CURB AND GUTTER. IF THERE IS NO CURB AND GUTTER THEN PULL BOXES SHALL BE PLACED AT LEAST 10 FEET FROM THE EDGE OF PAVEMENT.
- 4. THE BASE OF THE CONTROLLER CABINETS SHALL BE EQUAL TO OR GREATER THAN THE ELEVATION OF THE ROADWAY.
- 5. THE CABINET DOOR SHALL OPEN AWAY FROM THE INTERSECTION.
- 6. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AT LEAST 48 HOURS IN ADVANCE OF LOOP CUTTING. THE PROJECT ENGINEER WILL CONTACT THE COUNTY TRAFFIC ENGINEER WHO MAY CHALK THE LOOPS AND OBSERVE THEIR INSTALLATION IF HE SO DESIRES.
- 7. ALL LOOPS TO HAVE INDIVIDUAL LEAD-INS TO CABINET. LOOP SPLICES TO BE CRIMPED, SOLDERED AND SHRINK WRAPPED TO FDOT SPECIFICATIONS.
- 8. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY DEPARTMENT, MAINTAINING AGENCY AND THE FDOT AT LEAST 48 HOURS IN ADVANCE OF POLE SETTING OPERATIONS WHERE A CONFLICT WITH OVERHEAD ELECTRICAL CONDUCTORS IS EXPECTED AND IN ALL CASES WHERE JOINT USE POLES ARE TO BE USED.
- 9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING THE PROPER AMOUNT OF RAKE WITH RESPECT TO LOADING TO BE USED ON POLES AT TIME OF INSTALLATION. THIS INFORMATION IS AVAILABLE FROM THE POLE MANUFACTURER.
- IO. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AT LEAST 48 HOURS IN ADVANCE OF ANY LANE CLOSURES ON SR 50. NO LANE CLOSURES FROM 6:00 AM 8:00 PM EASTBOUND AND WESTBOUND. THE TIMES MAY BE ADJUSTED BY THE PROJECT ENGINEER IF NECESSARY TO MEET FIELD CONDITIONS. LANE CLOSURES ARE REQUIRED FOR OVERHEAD SIGNAL WORK AND LOOP INSTALLATION AND SHALL FOLLOW THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS (2004).
- II. WHEN THE CONTRACTOR IS PERFORMING SIGNAL WORK IN AN INTERSECTION (INSTALLING CONDUIT IN THE STREET, REMOVING EXISTING SIGNAL EQUIPMENT, INSTALLING NEW SIGNAL EQUIPMENT, INSTALLING LOOPS AND RUNS, AND TURNING ON OF NEW SIGNALS) WHERE A LANE IS CLOSED AN OFF-DUTY LAW ENFORCEMENT OFFICER IS INCIDENTAL TO THE COST OF THE PROJECT.
- 12. ALL CABLE SHALL BE PULLED IN THE CONDUIT WITH A CABLE GRIP DESIGNED TO PROVIDE A FIRM HOLD ON THE EXTERIOR COVERING OF THE CABLE. A WINCH WITH A SLIP CLUTCH SHALL BE USED TO ENSURE THAT THE ALLOWABLE TENSION LIMIT IS NOT EXCEEDED. AN APPROVED LUBRICANT SHALL BE USED TO FACILITATE THE PULLING OF THE CABLE.
- 13. AS DIRECTED BY THE PROJECT ENGINEER, THE CONTRACTOR SHALL ADJUST CONDUIT VERTICALLY TO AVOID ANY POSSIBLE CONFLICTS WITH UNDERGROUND UTILITIES.
- 14. ALL PULL BOX COVERS SHALL BE FDOT APPROVED OF NON METALLIC CONSTRUCTION WITH RECESSED COVER LOGO "TRAFFIC SIGNAL" OR "FIBER OPTIC" AS APPROPRIATE.
- 15. THE LOCATION OF THE UTILITIES SHOWN IN THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR DURING CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE EXACT LOCATIONS OF UNDERGROUND UTILITIES PRIOR TO DIGGING.

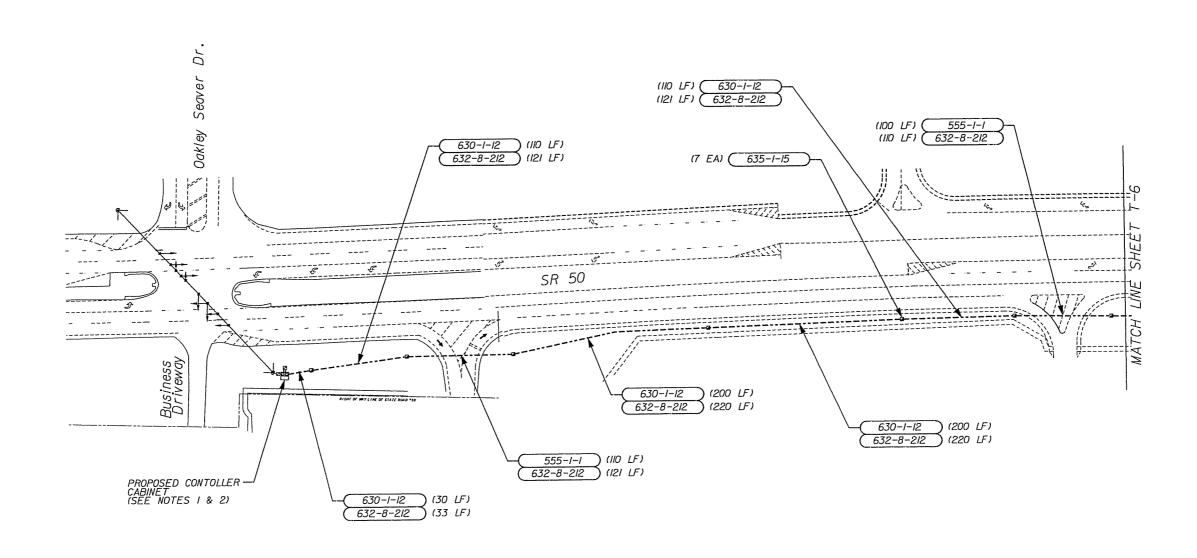
- 16. SIGNAL CABLE AND SPAN WIRE INSTALLATION SHALL BE A TWO POINT ATTACHMENT.
- 17. TYPE F LOOPS SHALL BE 6'X40' AND EXTEND 5' BEYOND THE STOP BAR.
- IB. FOR MULTIPLE RUNS OF UNDER PAVEMENT CONDUIT, ONLY ONE RUN WILL BE PAID FOR AS UNDER PAVEMENT AND ADDITIONAL RUNS WILL BE PAID FOR AS UNDERGROUND.
- 19. TRAFFIC SIGNAL MAINTAINING AGENCY IS LAKE COUNTY TRAFFIC DEPARTMENT LOCATED AT: 123 N. SINCLAIR AVENUE TAVARES, FL. 32778 PHONE (352) 253-4944
- 20. SIGNAL DISCONNECT SHALL BE 12"w x 6"h x 4\/2"d, WITH HINGED DOOR AND 18 POSITION TERMINAL STRIP. NO CINCH JONES PLUGS WILL BE ACCEPTED.
- 21. THE CONTRACTOR SHALL VERIFY SIGNAL CABLE COLOR CODES WITH LAKE COUNTY BEFORE ORDERING.
- 22. THE CONTROLLER CABINET ASSEMBLY SHALL BE A NAZTEC TS 2, TYPE 2 AND HAVE ALL NECESSARY HARDWARE TO COMMUNICATE WITH LAKE COUNTY CLOSED LOOP SYSTEM AND SHALL USE THE APPROPRIATE COMMUNICATION PROTOCOL TO CONFORM TO THE RCSS REQUIREMENTS. THE ADDITIONAL EQUIPMENT AND ACCESSORIES FOR THE FIBER OPTIC CABLE INTERCONNECT SHALL BE FURNISHED AND INSTALLED AS PART OF THE CONTROLLER ASSEMBLY.
- 23. THE TRAFFIC SIGNAL SHALL FLASH NO LESS THAN 7 DAYS AND NO MORE THAN 14 DAYS PRIOR TO THE TURN-ON INSPECTION. THE CONTRACTOR SHALL CONTACT THE PERMIT ENGINEER 48 HOURS PRIOR TO TURNING THE SIGNAL ON FLASH.
- 24. SIGNAL CABLE AND LOOP WIRES TO BE IN SEPARATE PULL BOXES.
- 25. DELAY DETECTORS SHALL BE SET TO 5 SECONDS.
- 26. A SIGNAL INSPECTION IS TO BE SCHEDULED WITH MR. RAY MARLIN AT (386) 943-5318, OF TRAFFIC OPERATIONS, IO DAYS PRIOR TO THE SIGNAL BEING PLACED INTO OPERATION.
- 27. ANY NEW OR EXISTING STRIPING CUT BECAUSE OF LOOP PLACEMENT SHALL BE RESTRIPED PRIOR TO ACCEPTANCE.
- 28. PRE-EMPTION SYSTEM SHALL BE COMPATIBLE WITH MAINTAINING AGENCY'S EXISTING SYSTEM.
- 29. OVERHEAD BELDON TO BE UV RATED.
- 30. VEHICLE SIGNAL HEAD ASSEMBLIES SHALL BE BLACK, CAST ALUMINUM, WITH TUNNEL VISORS, AND LED'S FOR ALL INDICATIONS, UNLESS OTHERWISE NOTED.
- 31. A MANUAL PUSH BUTTON CORD SHALL BE FURNISHED IN ALL CONTROLLER CABINETS.
- 32. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING THE ELECTRIC PERMIT AND TO COORDINATE APPLICATION FOR POWER, WITH LAKE COUNTY TRAFFIC OPERATIONS AT (352) 742-7766.
- 33. INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL HAVE A SEPARATE CIRCUIT BREAKER, PHOTOCELL, AND BYPASS SWITCH, INSIDE THE CABINET.
- 34. THE CONTRACTOR SHALL NOTIFY LAKE COUNTY TRAFFIC OPERATIONS (352) 742-1766 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.

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NOTES:

- I. PULL INTERCONNECT FROM EXISTING FIBER OPTIC PULL BOX INTO THE CONTROLLER CABINET AT THE INTERSECTION OF OAKLEY SEAVER DRIVE AND SR 50.
- 2. THE LOCATION OF THE PROPOSED CONTROLLER CABINET IS SHOWN ON SHEET T-4.

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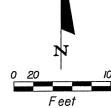


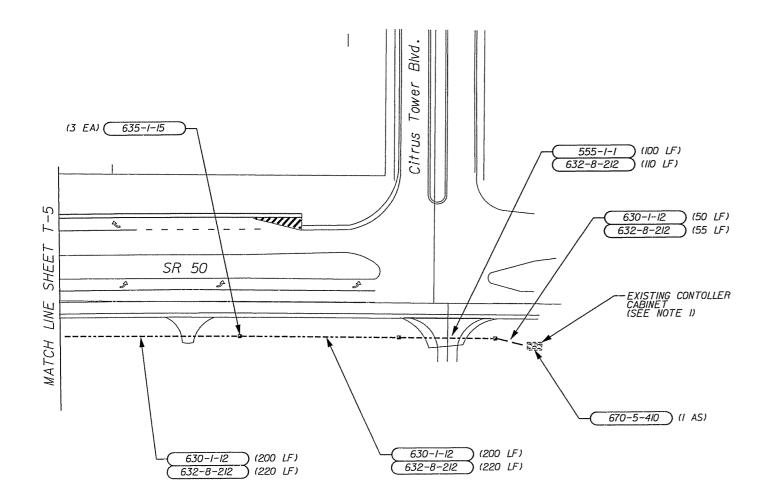
GMB Engineers & Planners, Inc.
3751 Maguire Boulevard, Sufte III
Orlando, FL 32803
Phone: 407-898-5424 Fax: 407-898-5425

LAKE COUNTY

INTERCONNECT PLAN

SHEET NO. 7-6

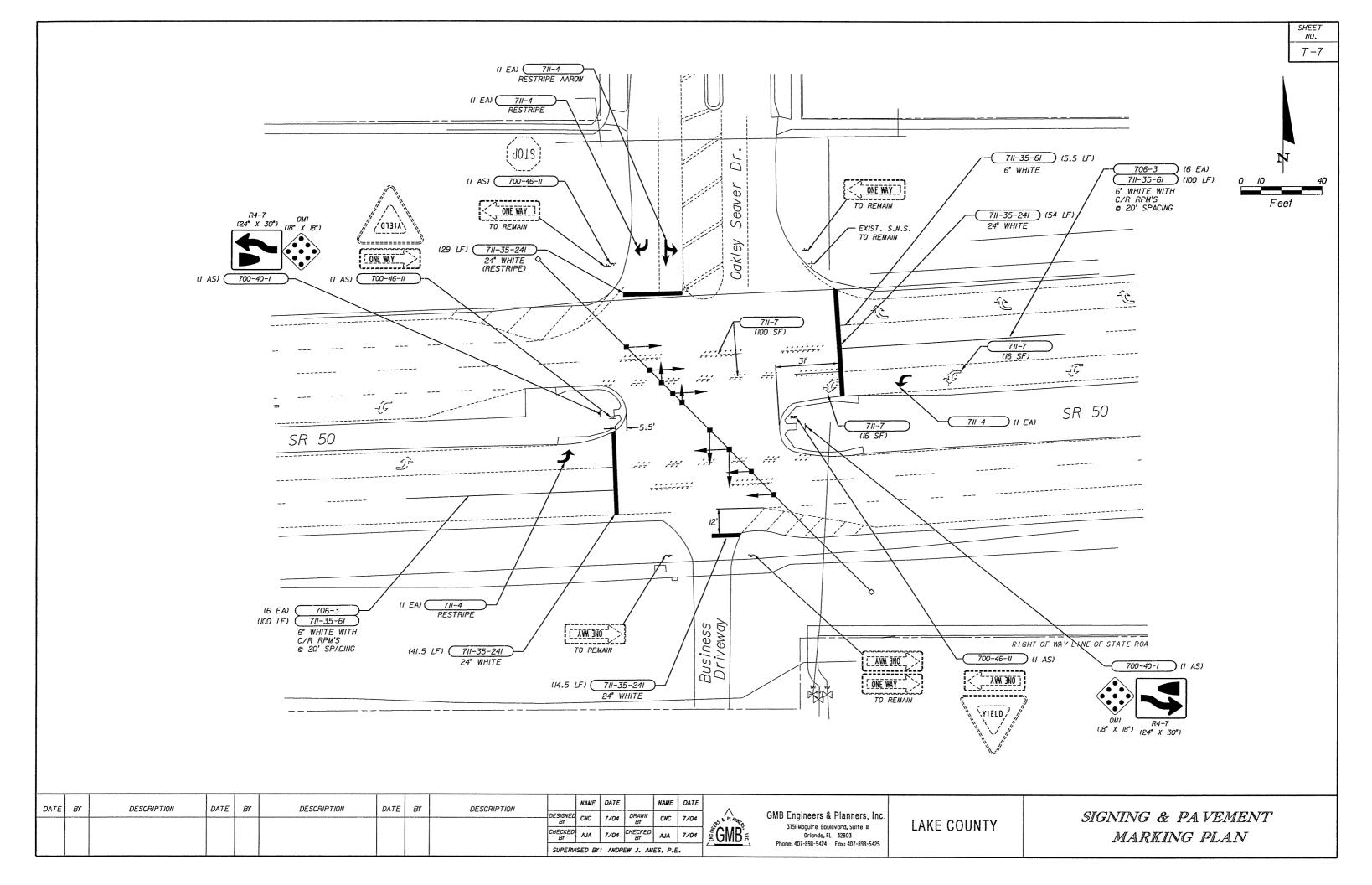




I. PULL INTERCONNECT FROM PROPOSED FIBER OPTIC PULL BOX INTO THE CONTROLLER CABINET AT THE INTERSECTION OF CITRUS TOWER BLVD. AND SR 50.

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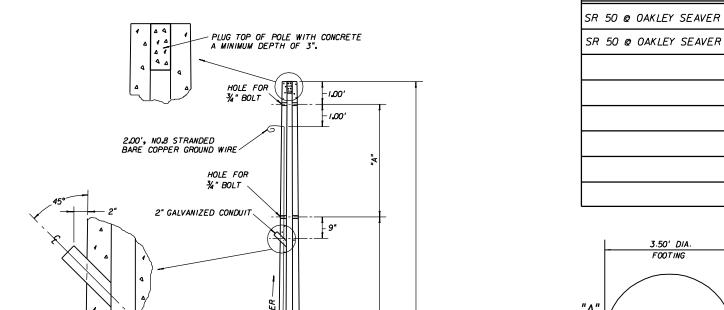


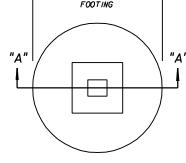


SHEET NO.

T-8

LOCATION	POLE NO.	TYPE	A (ft)	B (ft)	C (ft)	D (ft)	E (ft)	F (ft)	ITEM NO.	QUANTITY
SR 50 @ OAKLEY SEAVER DR.	1	NVII	9.00	7.14	9.64	44.00	24.36	3. 50	641-16-144	1
SR 50 @ OAKLEY SEAVER DR.	2	NVII	9 . 00	7.14	9 . 64	44.00	24.36	3 . 50	641-16-144	1





FOUNDATION PLAN

SPECIAL NOTES:

- I. CATENARY WIRE SHALL BE 岩 DIAMETER (UTILITY GRADE), AND THE MESSENGER WIRE SHALL BE ½ DIAMETER (UTILITY GRADE).
- 2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND CAPACITY CALCULATIONS FOR THE PROPOSED POLES, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA, TO THE ENGINEER FOR REVIEW AND APPROVAL.
- 3. A MINIMUM CLEARANCE OF 3" BETWEEN THE EXTERIOR OF THE PRECAST POLE AND THE SIDES OF THE FOUNDATION SHALL BE MAINTAINED.

 IF THE FURNISHED POLE RESULTS IN A MINIMUM CLEARANCE OF LESS THAN 3", THEN THE CONTRACTOR SHALL INCREASE THE FOUNDATION

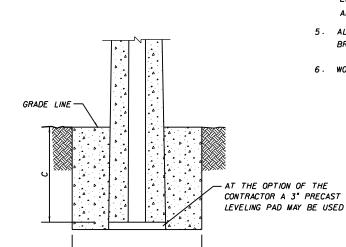
 DIAMETER ("F") TO OBTAIN THE 3" MINIMUM CLEARANCE AT NO ADDITIONAL COST TO THE OWNER.
- 4. ASSUMPTIONS AND VALUES USED IN DESIGN OF FOUNDATION

FOR SR 50 @ OAKLEY SEAVER DR. POLES / & 2

EFFECTIVE SOIL UNIT WEIGHT ANGLE OF INTERNAL FRICTION 40 PCF 30°

5. ALL CONSTRUCTION WORK AND MATERIALS SHALL CONFORM TO THE LATEST EDITION OF FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SECTION 641.

6. WORK THIS DRAWING WITH ROADWAY AND TRAFFIC DESIGN STANDARDS AND THE REST OF THE DRAWINGS FOR THIS PROJECT.



POLE SECTION

TYPES N-III through N-VIII

- CONC. FOUNDATION

1.00'

2" GALVANIZED

CONDUIT WITH COVER OR PLUG

LOAD FACE TOWARD

- ROADWAY

A PROPERLY SIZED SERVICE HEAD, (WEATHER

HEAD) SHALL BE INSTALLED AND FASTENED SECURELY

SERVICE ENTRANCE INSTALLATION PER INDEX 17727.

G OF 4" x 6" HANDHOLE WITH COVER

FINAL GRADE (VARIES)
TOP OF FOUNDATION

4.00' NO.8 STRANDED BARE COPPER GROUND WIRE

> CONDUIT ENTRY HOLE 3" x 5" BOTH SIDES

ONTO CONDUIT FOR EACH POLE LOCATION. AT LOCATIONS OTHER THAN SERVICE ENTRANCE, THE SERVICE HEAD FACE IS TO BE LEFT CLOSED TO OUTSIDE ATMOSPHERE.

SECTION "A-A"

3.50' DIA

FOOTING TO BE PAID FOR UNDER PAY ITEM 641-16-148.
REFER TO FDOT STANDARD SPECIFICATIONS SECTION 641-3.2.

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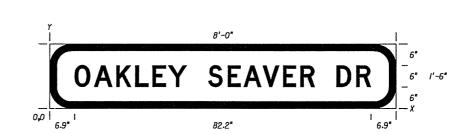


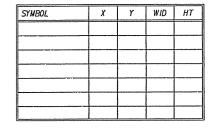
DA 32822-2779 799-182 9599-182 599-1833 LAKE COUNTY CONCRETE STRAIN POLE SCHEDULE

NO. T-9

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DIMENSIONS IN INCHES

SPACINGS ARE TO START OF NEXT LETTER

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GMB Engineers & Planners, Inc.
3751 Maguire Boulevard, Sulte III
0rlando, FL 32803
Phone: 407-898-5424 Fax: 407-898-5425

LAKE COUNTY

GUIDE SIGN WORKSHEET