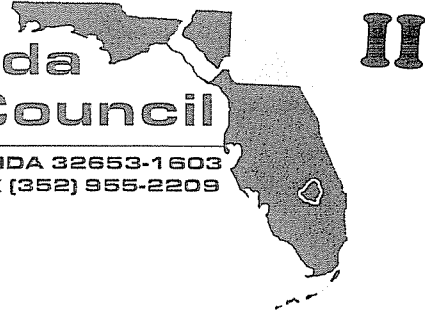


# North Central Florida Regional Planning Council

2009 NW 67 PLACE, SUITE A, GAINESVILLE, FLORIDA 32653-1603  
(352) 955-2200 SUNCOM 625-2200 FAX (352) 955-2209



November 9, 2009

TO: Metropolitan Transportation Planning Organization Design Team  
FROM: Marlie Sanderson, AICP, Director of Transportation Planning  
SUBJECT: Meeting Announcement and Agenda

The Design Team will meet on Tuesday, November 17, 2009 at 1:30 p.m. in the Charles F. Justice Conference Room, North Central Florida Regional Planning Council, 2009 NW 67<sup>th</sup> Place, Gainesville, Florida.

## STAFF RECOMMENDATION

### I. Introductions (if necessary)\*

### II. Agenda Approval

APPROVE AGENDA

### III. SW 62<sup>nd</sup> Connector Interim Project- Archer Road at SW 40<sup>th</sup> Boulevard 60 Percent Design Plans

APPROVE DESIGN PLANS

Alachua County's consultant has prepared 60 percent designs plan for review

### IV. SW 62<sup>nd</sup> Connector Interim Project- SW 43<sup>rd</sup> Street at SW 20<sup>th</sup> Avenue 60 Percent Design Plans

APPROVE DESIGN PLANS

Alachua County's consultant has prepared 60 percent designs plan for review

### V. SW 62<sup>nd</sup> Connector Interim Project- SW 20<sup>th</sup> Avenue Smart Bus Bay

APPROVE DESIGN PLANS

Alachua County's consultant has prepared 60 percent designs plan for review

**Page #73 V. Upcoming Meeting**

A. Next MTPO meeting – December 14<sup>th</sup> at 6:00 pm (Jack Durrance)

**VI. Information Item**

**Page #75**

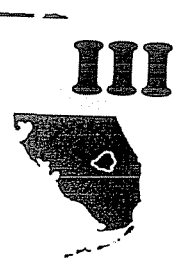
A. Design Team Membership List & Project Status

If you have any questions regarding the agenda items or enclosed materials, please contact Mike Escalante, AICP, at 955-2200, extension 114.

- \* - No handout included with the enclosed agenda material.
- # - Materials in full color are provided on the [ncfrpc.org transportation/mtpo](http://ncfrpc.org/transportation/mtpo) website.

# North Central Florida Regional Planning Council

2009 N.W. 67 PLACE, SUITE A, GAINESVILLE, FLORIDA 32653-1603  
(352) 955-2200 SUNCOM 625-2200 FAX (352) 955-2209



November 9, 2009

TO: Metropolitan Transportation Planning Organization (MTPO)

FROM: Marlie Sanderson, AICP, Director of Transportation Planning

SUBJECT: SW 62<sup>nd</sup> Connector Interim Projects 60 Percent Design Plans-  
SW 40<sup>th</sup> Boulevard at Archer Road Intersection Modifications

## MTPO STAFF RECOMMENDATION

Approve the 60 Percent Design Plans.

## BACKGROUND

The SW 40<sup>th</sup> Boulevard at Archer Road Intersection Modifications project is one of three interim projects resulting from the SW 62<sup>nd</sup> Connector Project Development and Environmental Study. Alachua County has submitted 60 Percent Design Plans for review. This interim project is being funded using the federal SAFETEA-LU High Priority Funds (also called "earmark funds").

Exhibit 1 includes the Interim Project slideshow. Exhibit 2 includes the 60 percent Design Plan Signing and Pavement Marking Plans and the Signalization Plans. To also review the full set of design plans, refer to the MTPO website:

<http://ncfrpc.org/mtpo/index.html>

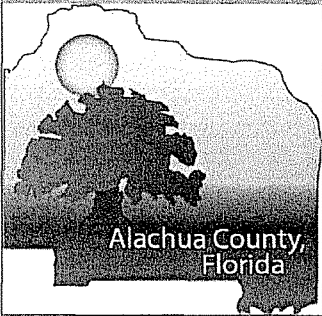
SW 40 <sup>th</sup> Blvd. @ Archer Road Intersection Project- Programmed Funds Timeline				
2008/2009	2009/2010	2010/2011	2011/2012	2012/2013
\$5.578 million* (construction)	-	-	-	-

\*Funding for all three interim projects

Enclosures

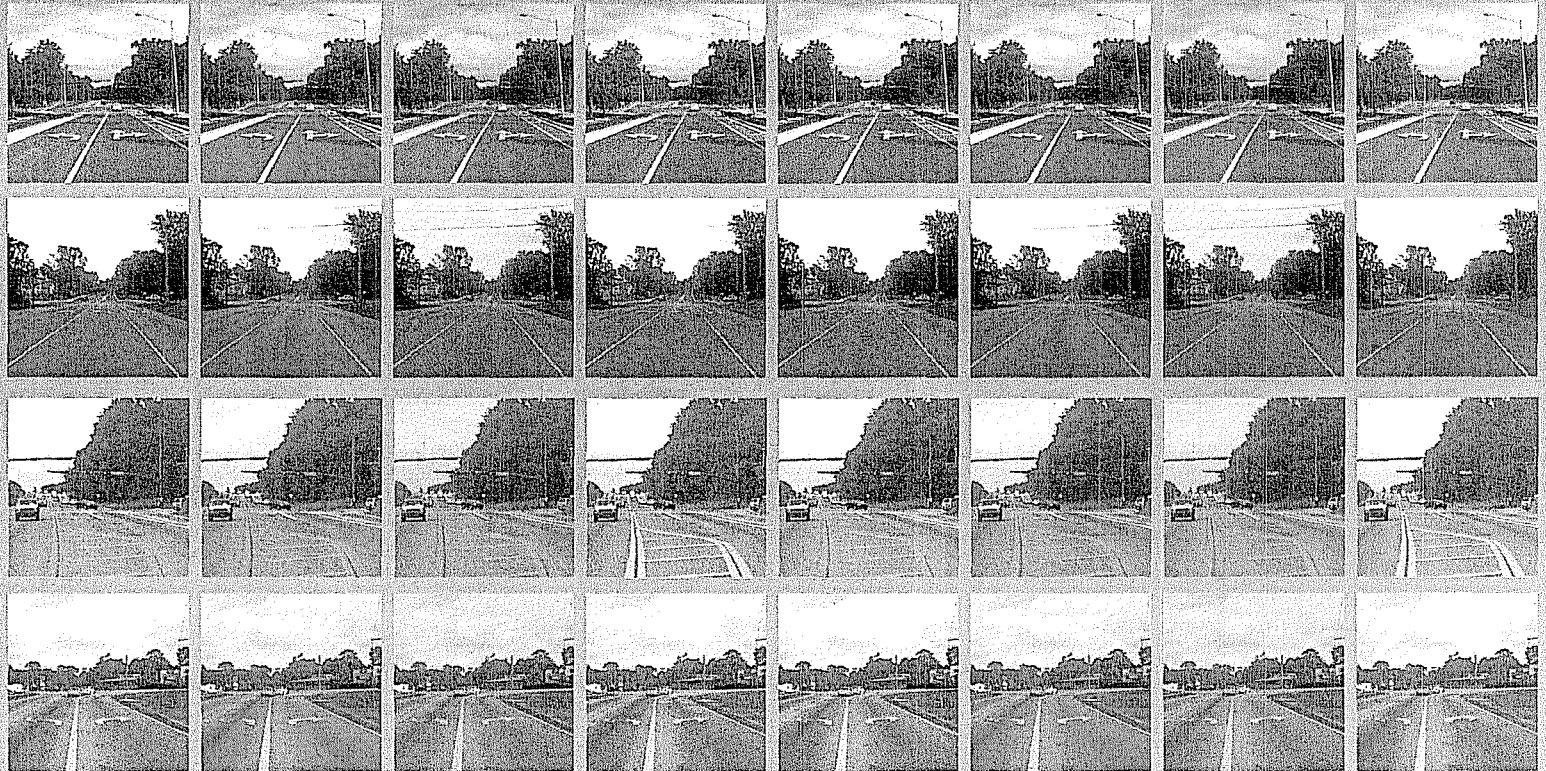






# Southwest 62<sup>nd</sup> Boulevard Connector Interim Projects

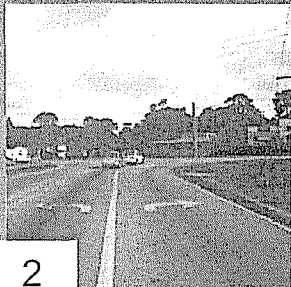
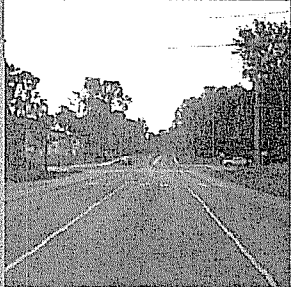
SR 24 (Archer Road) to SR 26 (Newberry Road)







## Purpose/Recommendation

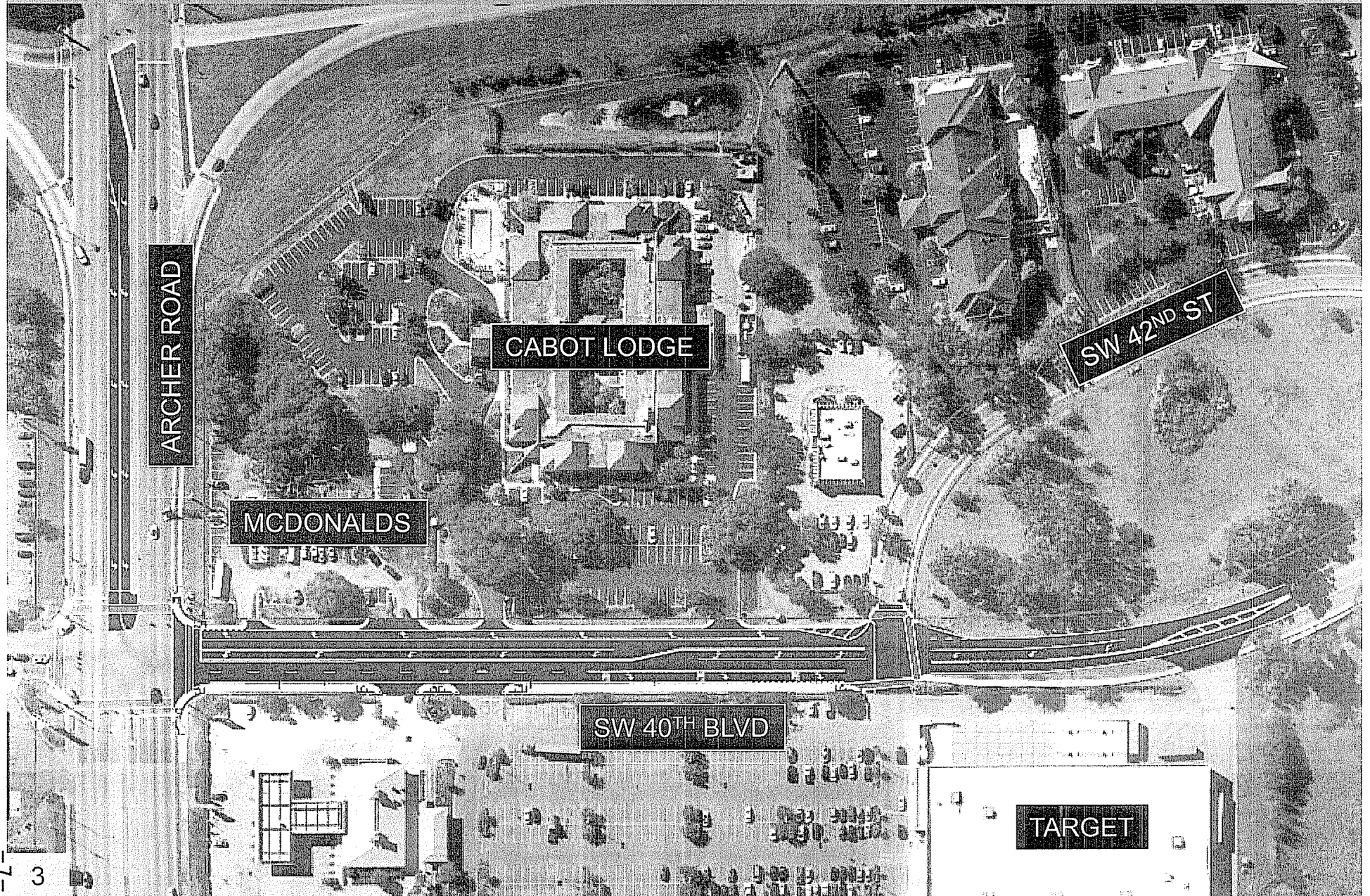


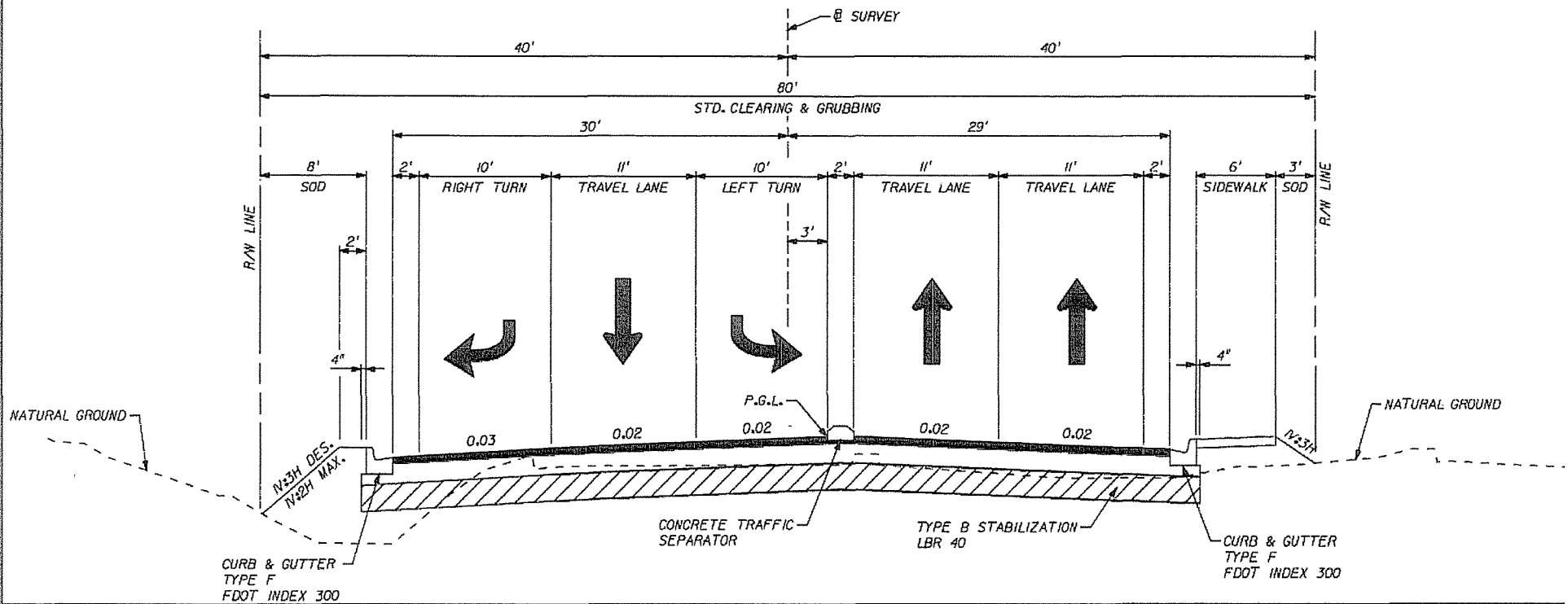
- **Recommendation**
  - Approve the 60% design plans as proposed and direct staff to proceed with the development of the 90% plans.
- **Interim Projects**
  - Southwest 40<sup>th</sup> Boulevard at Archer Road
  - Southwest 20<sup>th</sup> Boulevard at Southwest 43<sup>rd</sup> Street
  - Smart Bus Bay
- \* **MTPo presentation scheduled for December 2009**



**HNTB**

# SW 40<sup>th</sup> Boulevard at Archer Road









# Schedule

Nov Dec Jan Feb Mar Apr May

MTPO Review



90% Plans



Review



BOCC Presentation



Public Meeting



100% Plans



Review



Final Plans



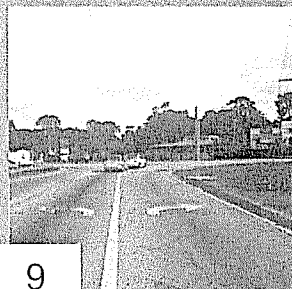
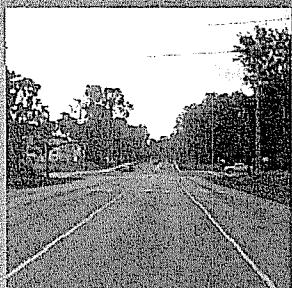
Permitting



Advertisement



Construction Notice to Proceed – October 2010







## Purpose/Recommendation



### ■ Recommendation

- Approve the 60% design plans as proposed and direct staff to proceed with the development of the 90% plans.

### ■ Interim Projects

- Southwest 40<sup>th</sup> Boulevard at Archer Road
- Southwest 20<sup>th</sup> Boulevard at Southwest 43<sup>rd</sup> Street
- Smart Bus Bay

\* MTPo presentation scheduled for December 2009

**ALACHUA COUNTY  
PUBLIC WORKS DEPARTMENT**

**CONTRACT PLANS**

FINANCIAL PROJECT ID 211365-0-03  
FEDERAL AID PROJECT NO. S124-002R  
ALACHUA COUNTY (51240)  
SW 40TH BOULEVARD AT ARCHER ROAD  
INTERSECTION IMPROVEMENTS

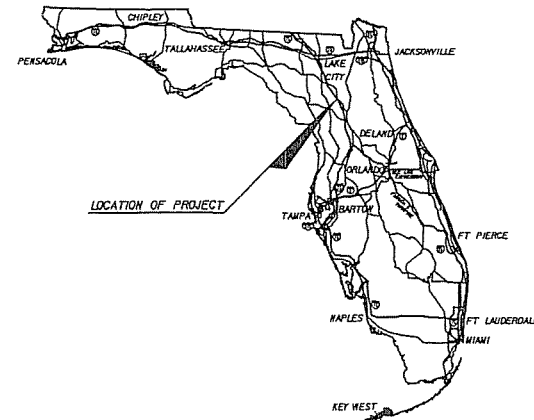
**INDEX OF SIGNING AND  
PAVEMENT MARKING PLANS**

<b>SHEET NO.</b>	<b>SHEET DESCRIPTION</b>
S-1	KEY SHEET
S-2	TABULATION OF QUANTITIES
S-3	GENERAL NOTES
S-4 TO S-8	SIGNING AND PAVEMENT MARKING PLAN

**SIGNING AND PAVEMENT MARKING PLANS**

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED 2008 AND  
STANDARD SPECIFICATIONS FOR ROAD  
AND BRIDGE CONSTRUCTION, DATED 2007,  
AS AMENDED BY CONTRACT DOCUMENTS.

REVISIONS



ROADWAY SHOP DRAWINGS  
TO BE SUBMITTED TO:

TERREL SHAW, P.E.  
HNTB CORPORATION  
7077 BONNEVAL ROAD  
SUITE 600, LIBERTY CENTER  
JACKSONVILLE, FL 32218  
PHONE NO. (904) 298-0207  
FAX NO. (904) 279-0280

PLANS PREPARED BY:

**HNTB**

HNTB CORPORATION  
7077 BONNEVAL ROAD  
SUITE 600, LIBERTY CENTER  
JACKSONVILLE, FL 32218  
PHONE NO. (904) 298-0207  
FAX NO. (904) 279-0280  
CERT. OF AUTH. NO. 6500

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

**PHASE II SUBMITTAL  
SEPTEMBER 2009**

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY PLANS  
ENGINEER OF RECORD: TERREL SHAW, P.E.

P.E. NO.: 50096

FISCAL YEAR	SHEET NO.
10	S-1

ALACHUA COUNTY PROJECT MANAGER: HA NGUYEN

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EXHIBIT 2

### TABULATION OF QUANTITIES

[illegible]

NOTE: PAY ITEM NO. 710-90, PAINTED PAVEMENT MARKINGS, SHALL BE PLACED AS PER PLAN FOR TEMPORARY PAVEMENT MARKINGS. QUANTITIES ARE AS PER THE CORRESPONDING THERMOPLASTIC PAVEMENT MARKINGS.

REVISIONS				ENGINEER OF RECORD: TERRELL SHAW, P.E. LIC. No. 50099 <b>HNTB</b> 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 206-0207 FAX: (904) 206-0200	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			SHEET NO.  S-2		
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
						ALACHUA	21J365-0-03			
				TABULATION OF QUANTITIES						



## SIGNING AND PAVEMENT MARKING GENERAL NOTES

1. PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN IN THE TRAFFIC DESIGN STANDARDS. SIGNING AND PAVEMENT MARKING SHALL BE INSTALLED IN ACCORDANCE WITH THE 2003 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ALL EXISTING ALACHUA COUNTY, CITY OF GAINESVILLE, OR RTA SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE REMOVED, STOCKPILED AND RELOCATED BY THE CONTRACTOR. SIGN REMOVAL SHALL BE DIRECTED BY THE PROJECT ENGINEER.
3. CAUTION SHALL BE EXERCISED WHILE RELOCATING EXISTING SIGNS TO PREVENT UNNECESSARY DAMAGE TO SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE PROJECT ENGINEER, SIGNS SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
4. EXISTING SIGNS SHALL REMAIN UNLESS OTHERWISE NOTED.
5. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED IN THE PLANS. THE QUANTITIES FOR PAINTED PAVEMENT MARKINGS, INDICATED IN THE TABLE OF QUANTITIES ON SHEET S-2, SHALL BE PLACED AS PER PLAN FOR TEMPORARY PAVEMENT MARKINGS. THE QUANTITIES FOR TEMPORARY PAVEMENT MARKINGS SHALL CORRESPOND TO THE THERMOPLASTIC PAVEMENT MARKINGS.
6. PAINTED PAVEMENT MARKINGS SHALL BE APPLIED BEFORE ROADWAY IS OPENED TO TRAFFIC. THERMOPLASTIC PAVEMENT MARKINGS TO BE APPLIED A MINIMUM OF 30 DAYS AFTER THE FINAL PAVEMENT MARKINGS HAVE BEEN CONSTRUCTED.
7. REFER TO F.D.O.T DESIGN STANDARDS INDEX No 17352 FOR REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS.
8. THE SIGN LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
9. ALL ROUTE MARKER AUXILIARY PANELS SHALL MATCH THE COLOR COMBINATION OF THE RESPECTIVE MARKER WHICH THEY SUPPLEMENT.
10. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING CONSTRUCTION OR RELOCATED SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION. COST OF THIS WORK SHALL BE AT CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR SHALL MAINTAIN AND KEEP STREET NAME IDENTIFICATION SIGNS VISIBLE DURING CONSTRUCTION OPERATIONS IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
12. EXISTING SIGN PANELS AND/OR SIGN ASSEMBLIES TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE. REMOVED SIGNS SHALL BE STOCKPILED IN A SECURE LOCATION AWAY FROM TRAFFIC, AS DESIGNATED BY THE ENGINEER. ALL SIGN ASSEMBLIES SCHEDULED FOR REMOVAL SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR WITHIN 48 HOURS OF REMOVAL.
13. MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINING AND END OF PROJECT AND AT ALL SIDE STREETS.
14. ANY PAVEMENT MARKING DISTURBED OUTSIDE THE RESURFACING LIMITS DUE TO LOOP SAW CUT SHALL BE RESTRIPE AND THE COST SHALL BE INCLUDED AS PART OF LOOP INSTALLATION

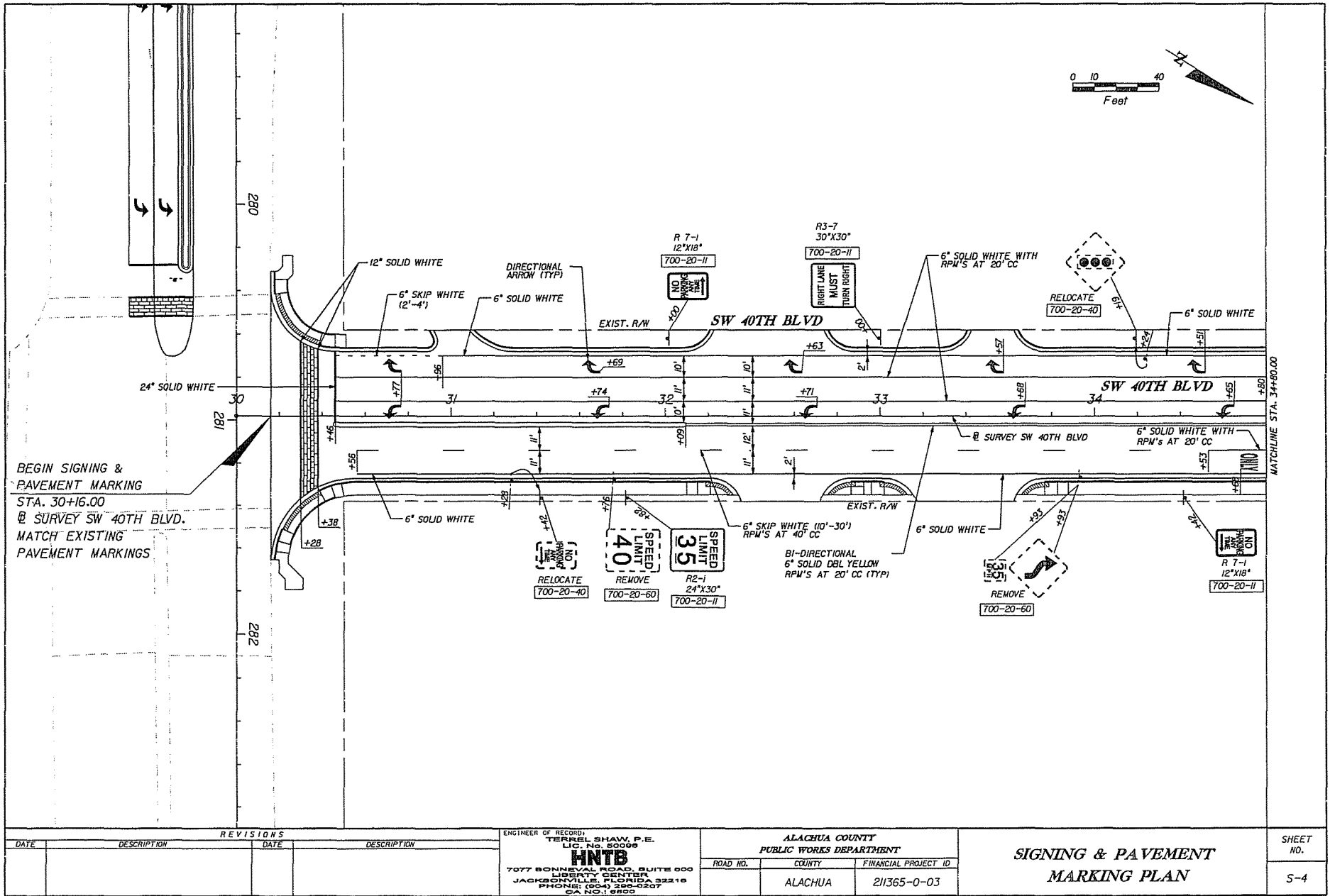
REVISIONS				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. NO. 50098 <b>HNTB</b> 7077 BONNEVAL ROAD, SUITE 800 LIBERTY CENTER JACKSONVILLE, FLORIDA 32218 PHONE: (904) 299-0207 CA NO. 1 8890	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			GENERAL NOTES	SHEET NO.  S-3
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						ALACHUA	211365-0-03		

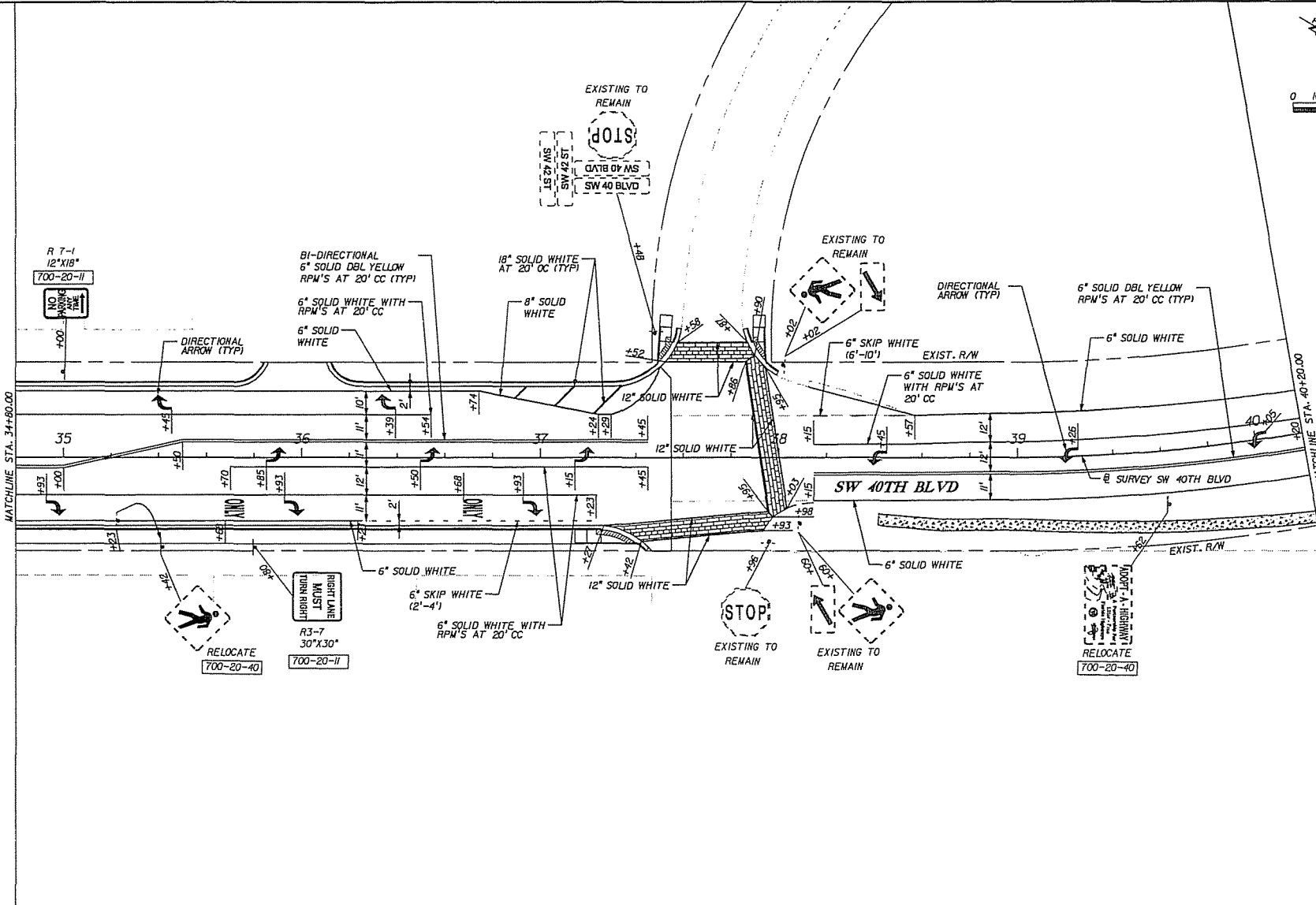
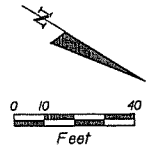
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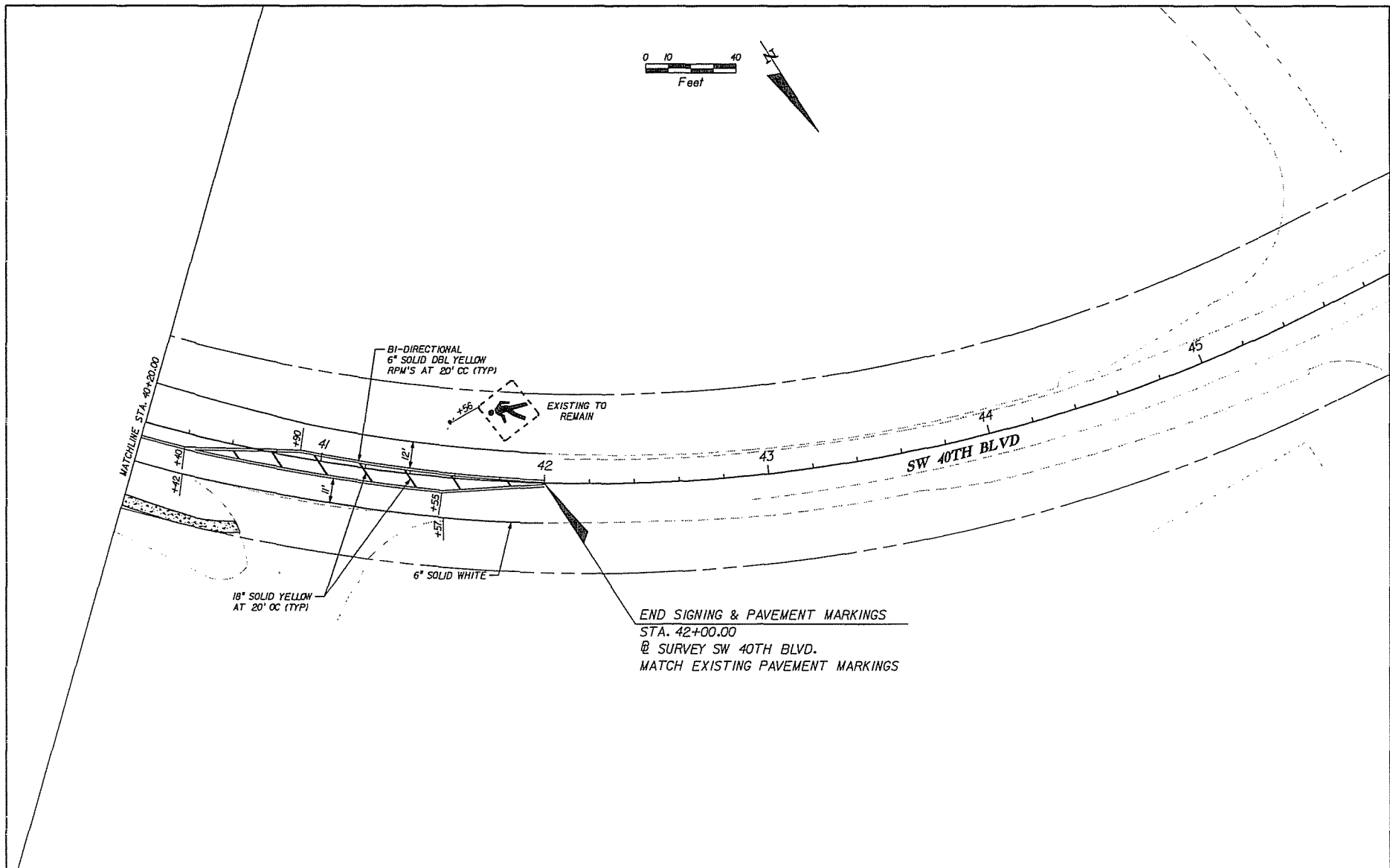
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REVISIONS				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. NO. 60096 <b>HNTB</b> 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 299-0207 CA NO. 16900	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT		SIGNING & PAVEMENT MARKING PLAN	SHEET NO.  5-5
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY		
						ALACHUA		
						211365-0-03		



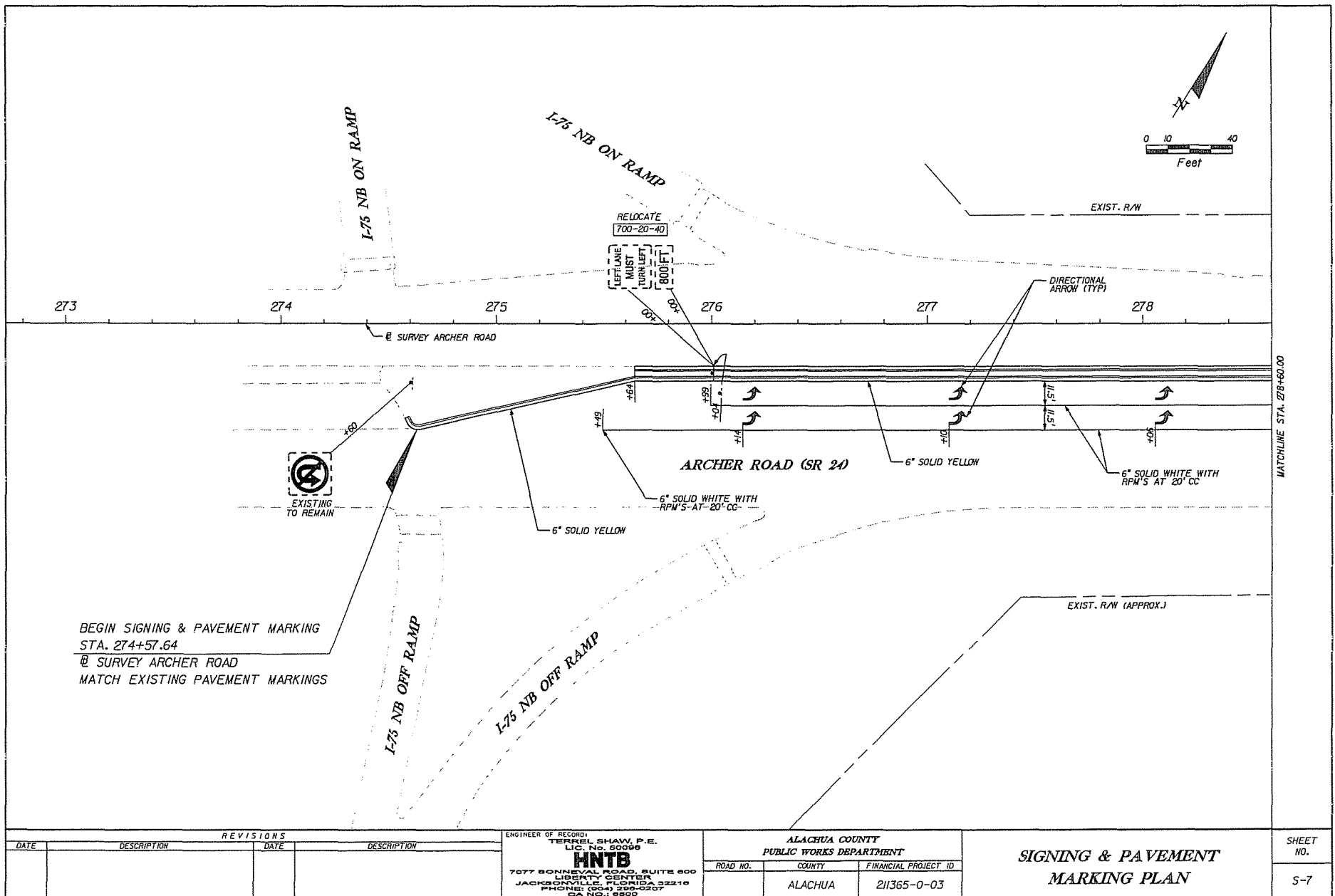
REVISIONS				ENGINEER OF RECORD TERREL SHAW, P.E. LIC. NO. 50096 <b>HNTB</b> 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 298-6207 CA NO. 1 6950	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT		SIGNING & PAVEMENT MARKING PLAN	SHEET NO.  S-6
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						ALACHUA	211365-0-03	

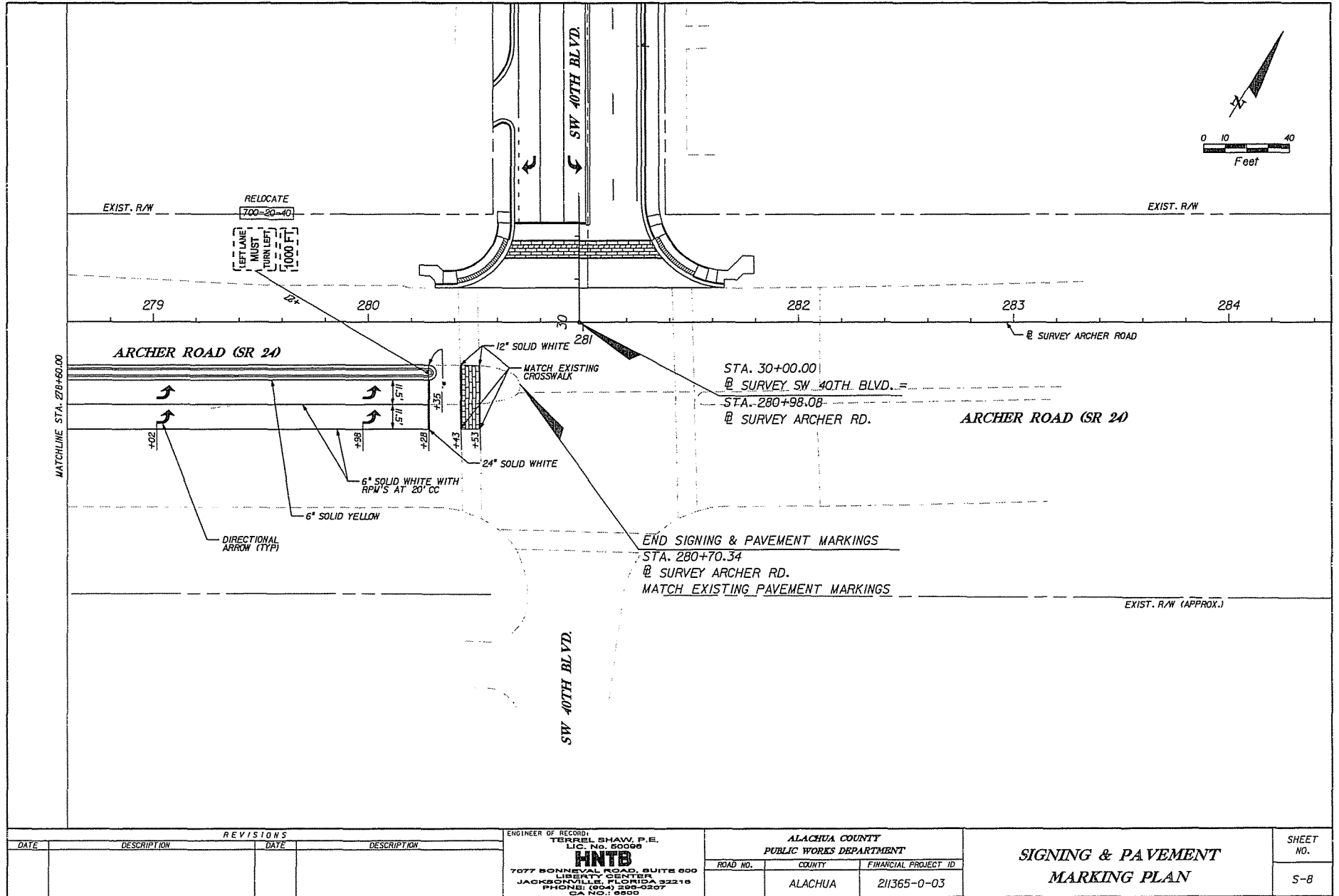
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**ALACHUA COUNTY  
PUBLIC WORKS DEPARTMENT**

**CONTRACT PLANS**

FINANCIAL PROJECT ID 211365-0-03  
FEDERAL AID PROJECT NO. S124-002R  
ALACHUA COUNTY (51240)  
ARCHER ROAD AT SW 40TH BOULEVARD  
INTERSECTION IMPROVEMENTS

**SIGNALIZATION PLANS**

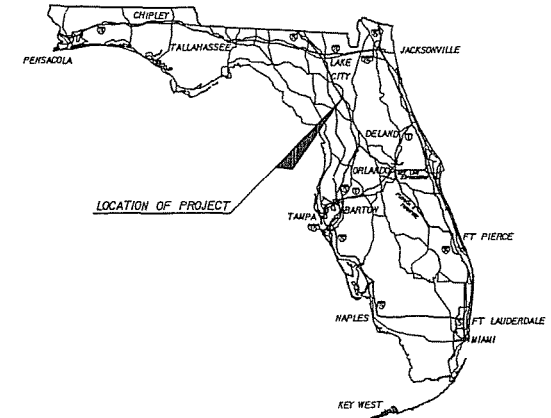
**INDEX OF SIGNALIZATION PLANS**

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	TABULATION OF QUANTITIES
T-3	GENERAL NOTES
T-4	SIGNALIZATION PLANS
T-5	MAST ARM TABULATION
T-6	TABLE OF VARIABLES FOR MAST ARM ASSEMBLIES
T-7	TRAFFIC SIGNAL DETAILS
T-8	GUIDESIGN WORKSHEET

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED 2010,  
AND STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION DATED 2007,  
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: TBA  
For Design Standards modifications click on:  
<https://www.dot.state.fl.us/restdgv>

REVISIONS



SIGNALIZATION SHOP DRAWINGS  
TO BE SUBMITTED TO:

STEVEN D. MIKESELL, P.E.  
HNTB CORPORATION  
7077 BONNEVAL ROAD  
SUITE 600, LIBERTY CENTER  
JACKSONVILLE, FL 32218  
PHONE NO. (904) 298-0207  
FAX NO. (904) 279-0280

PLANS PREPARED BY:

**HNTB**

HNTB CORPORATION  
7077 BONNEVAL ROAD  
SUITE 600, LIBERTY CENTER  
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PHONE NO. (904) 298-0207  
FAX NO. (904) 279-0280  
CERT. OF AUTH. NO. 6500

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

**PHASE II SUBMITTAL  
SEPTEMBER 2009**

SIGNALIZATION PLANS  
ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.

P.E. NO. 58703

FISCAL YEAR	SHEET NO.
10	T-1

ALACHUA COUNTY PROJECT MANAGER: HA NGUYEN, P.E.

SENTHIL MARIAN

9/25/2009

5/14/27 PW

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# GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE CITY OF GAINESVILLE TRAFFIC OPERATION DEPARTMENT MR. TRAVIS LAW AT (352) 334-2055, AT LEAST 24 HOURS IN ADVANCE OF SETUP OF LOOP DETECTION ZONES SO HE MAY OBSERVE THEIR INSTALLATION IF HE SO DESIRES.
2. IT SHOULD BE NOTED NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING OR TRENCING. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO EXAMINE THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS IN ACCORDANCE WITH SECTION 2-4 OF THE FDOT SPECIFICATIONS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICAL PRIOR TO ANY BORES AT THE DIRECTION OF THE ENGINEER. THIS SHOULD BE PERFORMED BY VACUUM EXCAVATION OR COMPARABLE NON DESTRUCTIVE EQUIPMENT. ALL RIGHT-OF-WAY SHALL BE RESTORED TO THE CONDITION WHICH EXISTED PRIOR TO THE BORE.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE COMPANY PROVIDING ELECTRICAL POWER TO DETERMINE IF A SERVICE PROCESSING FEE IS REQUIRED. IF REQUIRED, FEE SHALL BE INCLUDED AS PART OF PAYMENT FOR ELECTRICAL POWER SERVICE ASSEMBLY.
5. THE CONTRACTOR SHALL VERIFY THE COLOR CODES OF THE SIGNAL CABLE WITH THE CITY OF GAINESVILLE BEFORE ORDERING.
6. THE CONTRACTOR SHALL PROVIDE A TWO MAN BUCKET TRUCK AND ASSIST THE FDOT INSPECTOR IN PHYSICALLY EXAMINING EACH SIGNAL HEAD THE SAME DAY IT IS ERECTED.
7. CONCRETE AREAS DISTURBED BY THE INSTALLATION OF PULL BOXES, "A-FRAMES", CONTROLLER CABINETS, SIGNAL MAST ARMS/POLES AND PEDESTRIAN POLES SHALL BE REPLACED. REPLACEMENT SHALL BE TO THE NEAREST EXPANSION JOINT.
8. NO POLYCARBONATE HOUSING OR MOUNTING HARDWARE WILL BE PERMITTED FOR VEHICULAR OR PEDESTRIAN SIGNAL HEAD ASSEMBLIES. ALL INDICATIONS FOR VEHICULAR AND PEDESTRIAN SIGNAL HEAD ASSEMBLIES SHALL BE LED.
9. ALL CONDUIT SHALL BE 2" MINIMUM UNLESS OTHERWISE SPECIFIED IN PLANS, EXCEPT ELECTRICAL POWER SERVICE DUCT.
10. PAYMENT FOR ELECTRICAL SERVICE WIRE NOT IN THE VERTICAL ASSEMBLY WILL BE PAID FOR PER LINEAR FOOT OF A SINGLE CONDUCTOR.
11. A MANUAL PUSH BUTTON CORD SHALL BE FURNISHED IN ALL CONTROLLER CABINETS.
12. DELAY TIMES FOR LOOPS MARKED "DELAY" SHALL BE SET TO 5 SECONDS.
13. DURING PRE-EMPTION, ALL DIRECTIONS SHALL BE RED WITH THE EXCEPTION OF THE APPROACH DIRECTION, WHICH SHALL BE GREEN.
14. UNLESS SPECIFIED OTHERWISE, ALL PULL BOX COVERS TO BE FURNISHED AND INSTALLED SHALL BE NON-METALLIC.
15. AS DIRECTED BY THE PROJECT ENGINEER, THE CONTRACTOR SHALL ADJUST CONDUIT & PULL BOXES HORIZONTALLY AND/OR VERTICALLY IN ORDER TO AVOID ANY POSSIBLE CONFLICTS WITH UNDERGROUND UTILITIES.
16. ALL FIELD WIRING SHALL BE NEATLY BUNDLED AND CLEARLY IDENTIFIED WITH PERMANENT, LEGIBLE, WEATHERPROOF TAGS THAT ARE SECURELY ATTACHED TO EACH CABLE. THE TAGGING SYSTEM PROPOSED SHALL BE SUBMITTED FOR APPROVAL WITH THE OTHER EQUIPMENT SUBMITTALS REQUIRED FOR THIS PROJECT.
17. ALL SIGNAL EQUIPMENT THAT IS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PLACE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE NOTED IN THE PLANS.
18. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT FOR SUPPORTING EXISTING UTILITY AND/OR SIGNAL POLES DURING CONSTRUCTION OF NEW MAST ARMS AND MAST ARM FOUNDATIONS. THE CONTRACTOR SHALL COORDINATE THIS EFFORT WITH THE UTILITY COMPANIES AND/OR THE LOCAL MAINTAINING AGENCY. PAYMENT TO BE INCLUDED IN THE ASSOCIATED MAST ARM PAY ITEM NUMBER.
19. ALL PEDESTRIAN SIGNAL INDICATIONS SHALL BE COUNT-DOWN PEDESTRIAN SIGNAL INDICATIONS AND ALL PEDESTRIAN SIGNALS SHALL HAVE INTERNATIONAL SYMBOLS AND BE COUNT-DOWN.
20. WHEN JACKING CONDUIT UNDER PAVEMENT THE CONTRACTOR MAY USE A FDOT APPROVED GUIDED BORING SYSTEM AS AN ALTERNATE METHOD OF CONSTRUCTION. AN ACCEPTABLE METHOD IS THE DITCH WITCH JET-TIAC OR EQUIVALENT.
21. WHEN THE CONTRACTOR IS REMOVING EXISTING TWISTED PAIR CABLE AND/OR RUNNING NEW FIBER OPTIC CABLE THE CONTRACTOR SHALL TAKE EVERY PRECAUTION SO NOT TO DAMAGE ANY EXISTING FIBER OPTIC CABLE STILL IN SERVICE. DAMAGED FIBER OPTIC CABLE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
22. AN EXCAVATION EXCEEDING 18 INCHES SHALL BE DONE BY HAND WITHIN 5 FEET OF ANY FIELD LOCATED UNDERGROUND UTILITY.
23. WHEN A CONTRACTOR IS WORKING ON SIGNAL WORK IN AN INTERSECTION (INSTALLING CONDUIT IN THE STREET, REMOVING EXISTING SIGNAL EQUIPMENT, INSTALLING NEW SIGNAL EQUIPMENT AND RUNS AND TURNING ON OF NEW SIGNALS) WHERE A LANE IS TO BE CLOSED, AN OFF-DUTY LAW ENFORCEMENT OFFICER SHALL DIRECT TRAFFIC. THE HOURLY RATE OF PAY FOR AN OFF-DUTY LAW ENFORCEMENT OFFICER CAN BE OBTAINED FROM THE OFFICE OF THE LAW ENFORCEMENT OFFICER. THIS COST SHALL BE INCLUDED IN PAY ITEM 102-1(WOT).
24. MAINTENANCE OF TRAFFIC SHALL CONFORM TO FDOT DESIGN STANDARDS.
25. ALL TYPE-F LOOPS SHALL BE 6' X 30' AND THE FRONT OF THE LOOP SHALL EXTEND 5 FEET IN FRONT OF THE STOP BAR UNLESS OTHERWISE NOTED IN THE PLANS.
26. THE CONTRACTOR SHALL NOTIFY THE SUNSHINE STATE ONE CALL AT 1-800-432-6770 AND THE APPROPRIATE UTILITY COMPANIES LISTED IN THE TABLE BELOW AT LEAST 2 FULL BUSINESS DAYS IN ADVANCE OF POLE CONSTRUCTION OPERATIONS, WHERE CONFLICT WITH UNDERGROUND UTILITIES OR OVERHEAD ELECTRICAL CONDUCTORS IS EXPECTED AND IN ALL CASES WHERE JOINT USE POLES ARE CALLED FOR.

CLAY ELECTRIC	STEVE LAW	352-337-8915
COX COMMUNICATIONS	GARY HARRELL	352-337-2052
GRU WASTEWATER /WATER	JASON SPARKS	352-393-1642
GRU ELECTRIC	WALLY SEALLEY	352-334-1900 EXT 6056
GRU GAS	MIKE BROWN	352-393-1466
AT&T	EVERETT SPARKS	352-331-9147

# SPECIAL NOTES:

1. THE COST OF FURNISHING AND INSTALLING THE FTP-68B-06 (INTERNATIONAL) SIGNS SHALL BE INCLUDED IN PAY ITEM NO. 665-II.
2. SIGNAL PEDESTAL AND SIGNAL POLE STATIONING AND OFFSETS MAY REQUIRE MINOR ADJUSTMENTS IN THE FIELD TO ENSURE HORIZONTAL CLEARANCE FROM FACE OF CURB TO CLOSEST SURFACE OF POLE AND WITHIN ROADWAY RIGHT-OF-WAY AND TO MAINTAIN A 4.0' MINIMUM SIDEWALK WIDTH. ANY RELOCATED POLES SHALL BE PLACED TO PROVIDE THE MAXIMUM SIDEWALK CLEARANCE POSSIBLE WITHIN ROADWAY RIGHT-OF-WAY.
3. CONTRACTOR TO HAND DIG THE FIRST 4.0' OF POLE FOUNDATIONS AND CONTACT THE APPROPRIATE UTILITY COMPANIES FOR LOCATES 2 FULL BUSINESS DAYS PRIOR TO ANY EXCAVATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL MAST ARM AND ROADWAY ELEVATIONS PRIOR TO FABRICATING MAST ARMS.
5. THE CONTRACTOR IS TO PROVIDE THREE ADDITIONAL CONDUIT RUNS PULLED AND CAPPED FROM THE CONTROLLER TO THE NEAREST PULL BOXES.
6. ALL PEDESTRIAN PHASES TO BE PUSH BUTTON ACTUATED WITH SOLID STATE SWITCH, MOMENTARY LED AND TONE (EX. BULLDOG PUSHBUTTON).
7. THE CONTRACTOR SHALL CONTACT PHILIP MANN, (352) 334-5074, AT THE CITY OF GAINESVILLE TRAFFIC OPS DEPARTMENT TO OBTAIN A COLOR CHIP FOR THE PAINTING OF PEDESTRIAN POLES AND MAST ARM POLES. THE BRAND OF PAINT SHALL BE DETERMINED BY THE POLE MANUFACTURER. PAINT SHALL BE APPLIED PER SPECIFICATION 649 AND 563.
8. ANY REQUIRED FIELD TOUCH-UP OF PAINTED SURFACES SHALL BE IDENTIFIED BY THE FDOT ENGINEER. ALL PAINT APPLIED IN THE FIELD SHALL BE DONE WITH BRUSH, ROLLER OR GLOVE. NO SPRAY PAINTING SHALL BE ALLOWED.
9. INTERCONNECT/FIBER OPTIC CABLE AND SIGNAL CABLE ARE TO BE PLACED IN SEPARATE CONDUITS AND PULL BOXES.
10. FINAL SIGNAL POLE PLACEMENT SHALL BE A MINIMUM OF 6' FROM ALL OVERHEAD UTILITIES.
11. SIGNAL HEADS SHALL BE LOCATED AS SHOWN IN THE PLANS. A MINIMUM OF 8' HORIZONTAL SEPARATION BETWEEN SIGNAL HEADS SHALL BE MAINTAINED FOR EACH MOVEMENT.
12. ALL ASTRO BRACKETS SHALL ARTICULATE AND HAVE BUILT INTO THE HOUSING A 12" (MINIMUM) CONDUCTOR TERMINAL STRIP, FIELD MODEL #AB012 OR APPROVED EQUIVALENT.
13. THE CONTRACTOR SHALL VERIFY STREET NAME SIGN MESSAGES PRIOR TO FABRICATION. BLOCK NUMBERS AND/OR ARROWS MAY BE REQUIRED.
14. MAXIMUM SIGNAL TIMINGS, PRE-EMPTION TIMINGS AND SYSTEM TIMINGS ARE TO BE PROVIDED BY THE CITY OF GAINESVILLE. CONTACT PHILIP MANN AT THE CITY OF GAINESVILLE TRAFFIC OPS DEPARTMENT, (352) 334-5074, FOR THE REQUIRED INFORMATION.
15. IN ADDITION TO THE REQUIREMENTS SET FORTH IN THE FDOT SPECIFICATIONS, ELECTRICAL POWER SERVICE IS TO INCLUDE CONSTRUCTING WETER/DISCONNECT FRAME STAND PER DETAIL SHOWN ON THE TRAFFIC SIGNAL DETAILS SHEET. HEIGHT OF THE A-FRAME TO BE DETERMINED BASED UPON THE HEIGHT REQUIREMENTS FROM THE POWER COMPANY FOR THE DISCONNECT.
16. PAY ITEM NO. 639-I-22 SHALL INCLUDE PAYMENT FOR THE "A" FRAME DISCONNECT DETAILED IN THE PLANS.
17. WHERE MULTIPLE CONDUIT RUNS CROSS THE MAINLINE AND/OR SIDE STREET, THE FIRST RUN ACROSS EACH LEG SHALL BE PAID FOR UNDER PAY ITEM 630-I-14. EACH ADDITIONAL RUN SHALL BE PAID FOR UNDER PAY ITEM 630-I-12.
18. PAYMENT FOR POWER SERVICE PULL BOXES TO BE INCLUDED UNDER PAY ITEM NO. 635-I-II.
19. THE CONTRACTOR SHALL ADJUST, AS DIRECTED BY THE ENGINEER, THE LOCATIONS OF THE SIGNAL MAST ARMS/POLES, CONDUITS, PULL BOXES, ETC. TO AVOID ANY UTILITY CONFLICTS.
20. PAY ITEM NUMBER 670-5-II SHALL INCLUDE: NAZTEC TYPE-VI CONTROLLER CABINET W/ETHERNET, NAZTEC TS-2 TYPE-I (INEMA) CONTROLLER, GENERATOR PLUG, CISCO INDUSTRIAL SWITCH AND LED MNU.
21. PAY ITEM NO. 663-74-II SHALL INCLUDE AN URBAN AREA PREEMPTION SYSTEM. THIS SYSTEM SHALL BE FULLY COMPATIBLE WITH THE EXISTING CITY OF GAINESVILLE PREEMPTION SYSTEM (3M OPTICOM). ALL NECESSARY EQUIPMENT SHALL BE PAID FOR UNDER THIS BID ITEM NUMBER. NECESSARY EQUIPMENT SHALL INCLUDE BUT NOT BE LIMITED TO:
  - 3M OPTICOM PHASE SELECTOR MODEL 754 CHANNELS,
  - 3M OPTICOM MODEL 757 AUXILIARY DETECTOR/GREEN SENSE HARNESS,
  - 3M OPTICOM DETECTOR CABLE MODEL 138 (APPROXIMATELY 200 FEET PER RUN),
  - 3M OPTICOM DETECTOR MODELS T11, T21 OR T22 DEPENDING ON INTERSECTION LAYOUT.
 THE CONTRACTOR SHALL SEEK FINAL DETECTOR PLACEMENT APPROVAL FROM THE CITY OF GAINESVILLE TRAFFIC OPERATIONS SECTION BEFORE BIDDING AND INSTALLATION. CITY OF GAINESVILLE TRAFFIC OPERATIONS CAN BE CONTACTED AT (352) 334-2055.

REVISIONS				ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E. FL LIC. NO. 68703 <b>HNTB</b> 7077 BONNEYAL ROAD, SUITE 000 LIBERTY CENTER JACKSONVILLE, FLORIDA 32218 PHONE: (904) 266-0207 FAX NO.: 68900	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.  7-3
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						ALACHUA	211365-0-03		

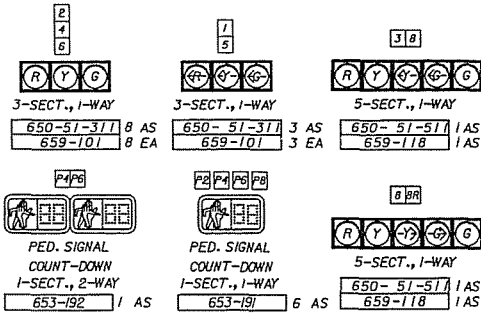
SENTHIL MARIAN

9/25/2009

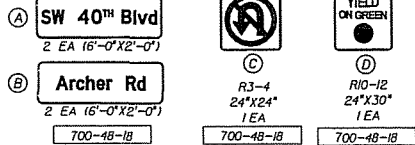
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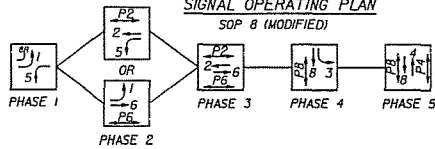
# SIGNAL HEAD DETAILS



## OVERHEAD SIGNS



## SIGNAL OPERATING PLAN



## CONTROLLER TIMINGS

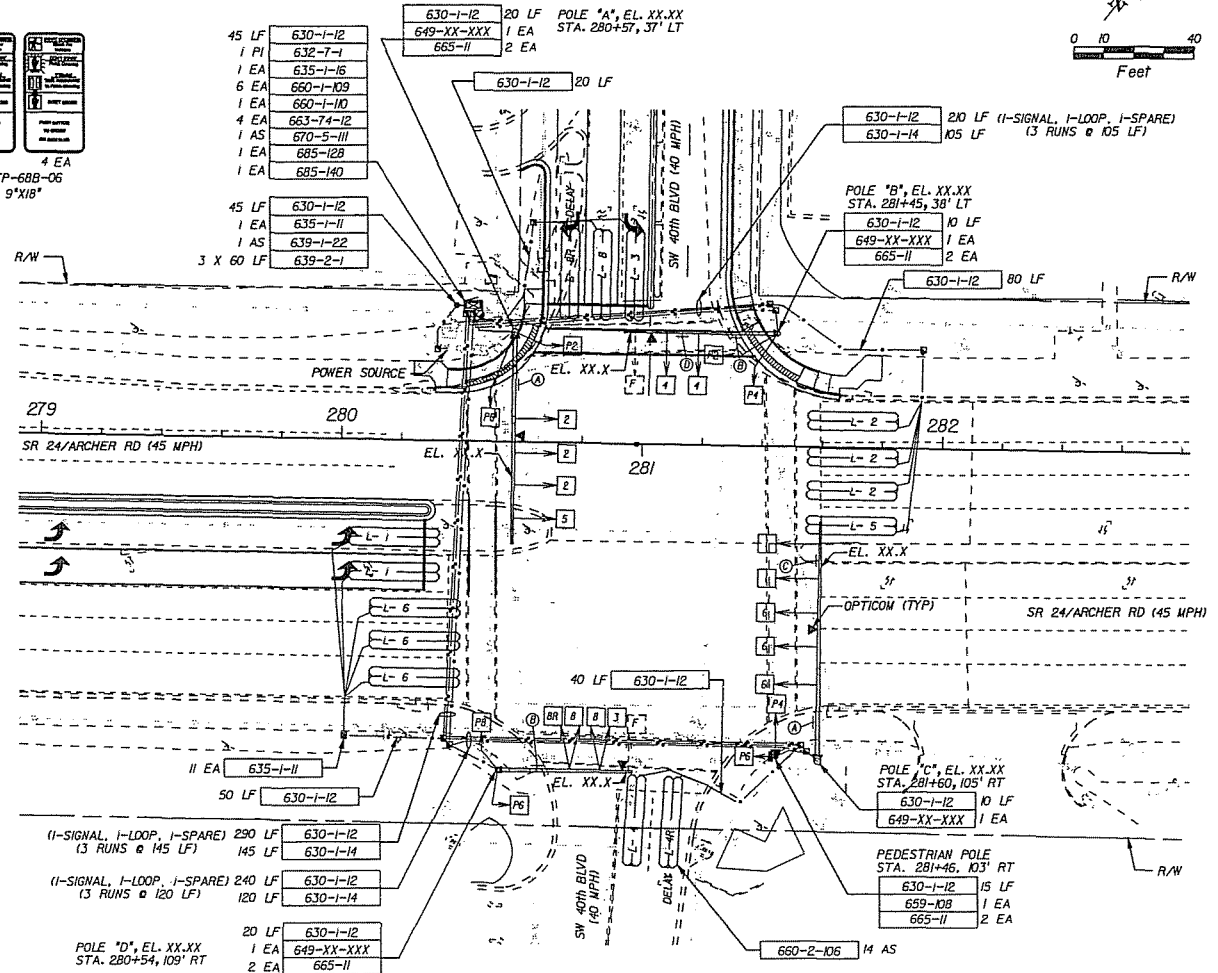
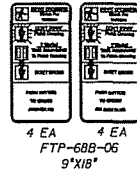
TIMING FUNCTION	1	2	3	4	5	6	7	8
MOVEMENT NUMBER	1	2	3	4	5	6	7	8
MINIMUM GREEN	4	15	4	4	15	-	4	-
EXTENSION	3.0	3.0	3.0	3.0	3.0	3.0	-	3.0
MAXIMUM GREEN 1	20	40	15	30	20	40	-	30
MAXIMUM GREEN 2	20	40	15	30	20	40	-	30
YELLOW CLEARANCE	4.0	4.5	4.0	4.0	4.0	4.5	-	4.0
ALL RED	1.0	1.0	1.0	1.0	1.0	1.0	-	1.0
PEDESTRIAN WALK	-	7	-	7	-	7	-	7
PED. CLEARANCE	-	20	-	32	-	20	-	33
DETECTOR FUNCTION	NL	LOCK	NL	NL	NL	LOCK	-	NL
RECALL	-	MIN	-	-	MIN	-	-	-

## REMOVAL ITEMS

690-10	10 EA
690-20	8 EA
690-33-1	60 LF
690-50	1 EA
690-70	8 EA
690-80	4 EA
690-90	1 PI
700-45-15	8 AS

## NOTES:

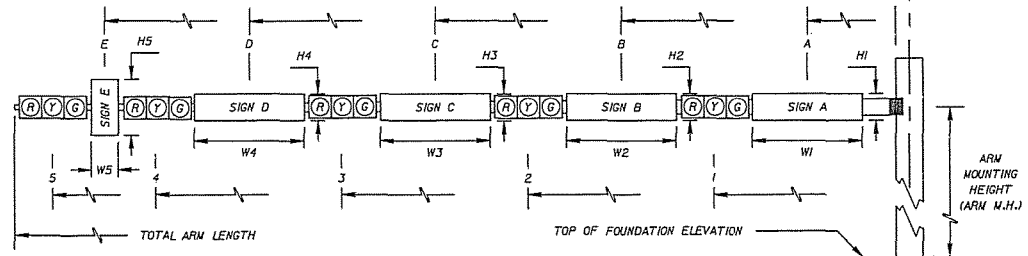
1. THE MAJOR STREET IS ARCHER ROAD (MOVEMENTS 2 & 6). THE SPEED LIMIT ON ARCHER ROAD IS 45 MPH. THE MINOR STREET IS SW 40TH BLVD.
2. ANY PAVEMENT MARKING DISTURBED OUTSIDE THE RESURFACING LIMITS DUE TO LOOP SAW CUT SHALL BE RESTRIPTED AND THE COST SHALL BE INCLUDED AS PART OF LOOP INSTALLATION.
3. EXISTING SIGNAL COMMUNICATION FIBER OPTIC RUN SHALL BE REDIRECTED INTO THE PROPOSED SIGNAL CABINET AS DIRECTED BY THE CITY OF GAINESVILLE, TRAFFIC OPERATIONS DEPARTMENT.
4. DURING TRAFFIC SIGNAL FLASHING OPERATION, MOVEMENTS 2 & 6 SHALL FLASH YELLOW, WHILE ALL OTHER MOVEMENTS SHALL FLASH RED.
5. NO LANE CLOSURES FROM 7:00 AM TO 7:00 PM WEEKDAY AND FOOTBALL FRIDAYS. THE CONTRACTOR MAY REQUEST APPROVAL FROM PHILIP MANN, CITY OF GAINESVILLE TO WORK DURING THESE TIMINGS.



SPECIAL INSTRUCTIONS			
ID NO.	FED. BUTTW	FED. SIGNALS	HANDHOLE LOCATION
A			
B			
C			
D			

ARM NO. 2 - DOUBLE ARM POLE ORIENTATION TO BE MEASURED IN A COUNTER CLOCKWISE DIRECTION FROM ROADWAY ARM NO. 1.

ARM NO. 1 - SINGLE ARM POLE OR LONGEST ARM FOR DOUBLE ARM POLE.



\* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

SIGNAL DATA										SIGN DATA															PAINT COLOR											
ID NO.	SHEET NO.	LOCATION BY STA.	TOP OF FOUNDATION ELEVATION	RDWY ARM NO.	CROWN ELEV.	SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE										TOTAL ARM LENGTH	ARM W/L	L BETWEEN DUAL ARMS 90/270	DISTANCE FROM POLE / HEIGHT AND WIDTH OF SIGN														
									1	*	2	*	3	*	4	*	5	*				A	H1	W1	B	H2	W2	C	H3	W3	D	H4	W4	E	H5	W5
A	T-4			1		H	Y	Y																									*			
				2																													*			
B	T-4			1		H	Y	Y																									*			
				2																													*			
C	T-4			1		H	Y	N																									*			
				2																													*			
D	T-4			1		H	Y	Y																									*			
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\* CONTACT CITY OF GAINESVILLE TRAFFIC OPERATIONS TO DETERMINE PAINT COLOR FOR SIGNAL AND PEDESTRIAN POLES.

REVISIONS				ENGINEER OF RECORD: ONUR DAL P.E. FL LIC. No. 64798 <b>HNTB</b> 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 266-0207 FAX NO. 6650	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						ALACHUA	211365-0-03	T-5
					MAST ARM TABULATION			

MAST ARM TABULATION

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[illegible]

TABLE NOTES:

(1) Assembly Number Legend

**Single Arm:**

Arm Type - Pole Type = D# - S#  
= E# - T#  
= F# - W#

**Double Arms:**

First Arm Type - Second Arm Type - Pole Type = D# - D# - S#  
= E# - E# - T#  
= F# - F# - W#

(2) If an entry appears in columns "FAA" and "FBA", a shorter arm is required. This is obtained by removing length from the arm tip. For these cases the mast arm length shall be shortened from "FA" to "FAA" and the arm tip diameter shall be increased from "FB" to "FBA".

(3) If an entry appears in columns "UAA" and "UCA", a shorter pole is required. This is obtained by removing length from the pole tip. For these cases the pole height shall be shortened from "UA" to "UAA" and the pole tip diameter shall be increased from "UC" to "UCA".

(4) The foundations for Standard Mast Arm Assemblies are pre-designed and are based upon the following conservative soil criteria which covers the great majority of soil types found in Florida. Only complete the "Special Drilled Shaft Data" information if site conditions dictate drilled shafts in soils with lesser strength properties.

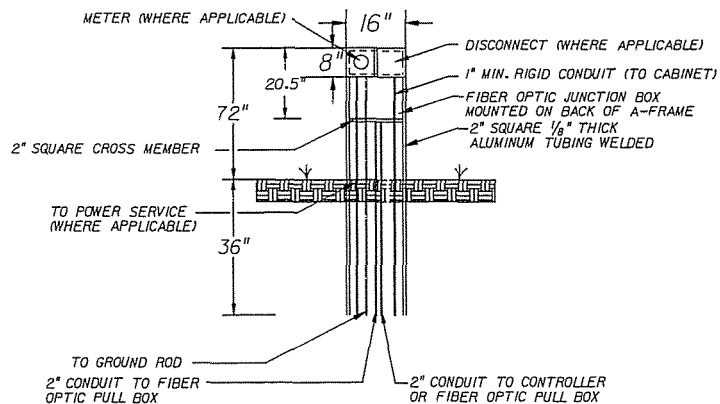
Classification = Cohesionless (Fine Sand)  
Friction Angle = 30 Degrees (30°)  
Unit Weight = 50 lbs/cu.ft. (assumed saturated)

**GENERAL NOTES:**

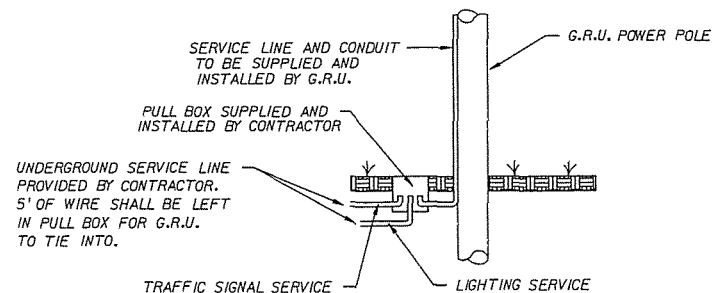
(1) Work this sheet with the Signal Designer's "Mast Arm Tabulation". See "Mast Arm Tabulation" for special instructions that include non-standard Handhole location, paint color, terminal compartment requirement and pedestrian features.

(2) Work this sheet with "Design Standards" Index Nos. 17743 & 17745 and with "Plans Preparation Manual" Chapter 24.7, Vol-2 and Figure 29.2, Vol-1.

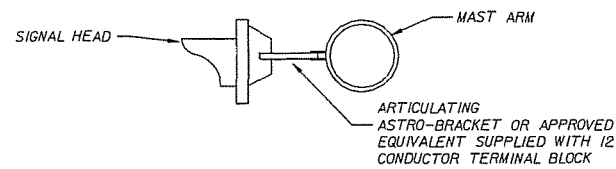
REVISIONS				ENGINEER OF RECORD: ONUR DAL, P.E. FL LIC. No. 64798 <b>HNTB</b> 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 206-0207 FAX NO. 904-2650	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABLE OF VARIABLES FOR MAST ARM ASSEMBLIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-6
						ALACHUA	211365-0-03		



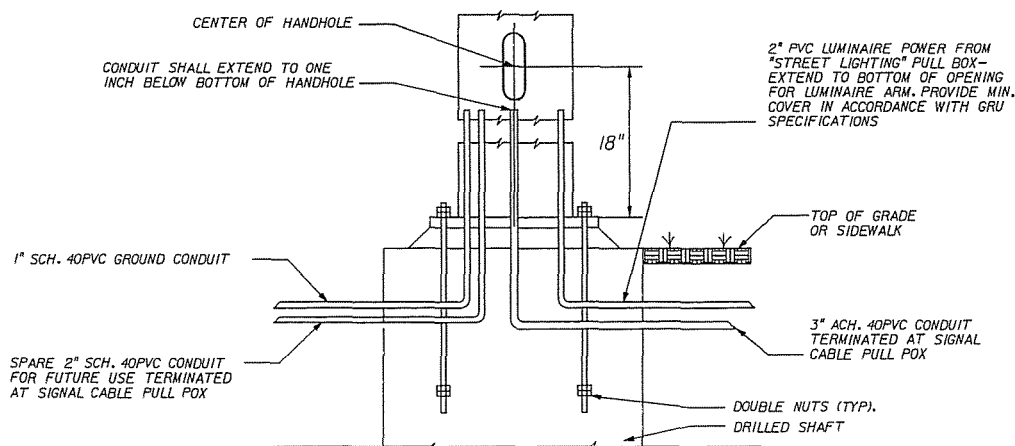
METER / DISCONNECT  
FRAME STAND DETAIL  
639-1-22  
N.T.S.



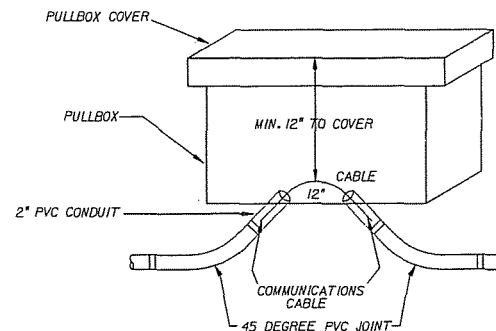
UNDERGROUND POWER  
SERVICE DETAIL  
N.T.S.



SIGNAL HEAD BRACKET  
ATTACHMENT DETAIL  
N.T.S.



CANTILEVER SIGNAL STRUCTURE  
FOUNDATION AND BASE PLATE DETAIL  
NOTE: REINFORCEMENT AND WINGS NOT SHOWN  
N.T.S.



COMMUNICATIONS CABLE  
CONDUIT INSTALLATION DETAIL

REVISIONS				ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E. FL LIC. No. 68763 <b>HNTB</b> 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32218 PHONE: (904) 295-0207 CA NO. 1 0800	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TRAFFIC SIGNAL DETAILS	SHEET NO.  T-7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						ALACHUA	211365-0-03		

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# North Central Florida Regional Planning Council



2009 N.W. 67 PLACE, SUITE A, GAINESVILLE, FLORIDA 32653-1603  
(352) 955-2200 SUNCOM 625-2200 FAX (352) 955-2209

November 9, 2009

TO: Metropolitan Transportation Planning Organization (MTPO)

FROM: Marlie Sanderson, AICP, Director of Transportation Planning

SUBJECT: SW 62<sup>nd</sup> Connector Interim Projects 60 Percent Design Plans-  
SW 43<sup>rd</sup> Street at SW 20<sup>th</sup> Avenue Intersection Modifications

## MTPO STAFF RECOMMENDATION

Approve the 60 Percent Design Plans.

## BACKGROUND

The SW 43<sup>rd</sup> Street at SW 20<sup>th</sup> Avenue Intersection Modifications project is one of three interim projects resulting from the SW 62<sup>nd</sup> Connector Project Development and Environmental Study. Alachua County has submitted 60 Percent Design Plans for review. This interim project is being funded using the federal SAFETEA-LU High Priority Funds (also called "earmark funds").

Exhibit 1 includes the Interim Project slideshow. Exhibit 2 includes the 60 percent Design Plan Signing and Pavement Marking Plans and the Signalization Plans. To also review the full set of design plans, refer to the MTPO website:

<http://ncfrpc.org/mtpo/index.html>

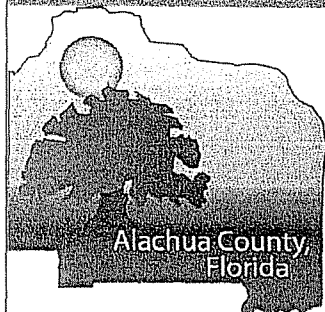
SW 43 <sup>rd</sup> Street @ SW 20 <sup>th</sup> Avenue Intersection Project- Programmed Funds Timeline				
2008/2009	2009/2010	2010/2011	2011/2012	2012/2013
\$5.578 million* (construction)	-	-	-	-

\*Funding for all three interim projects

Enclosures

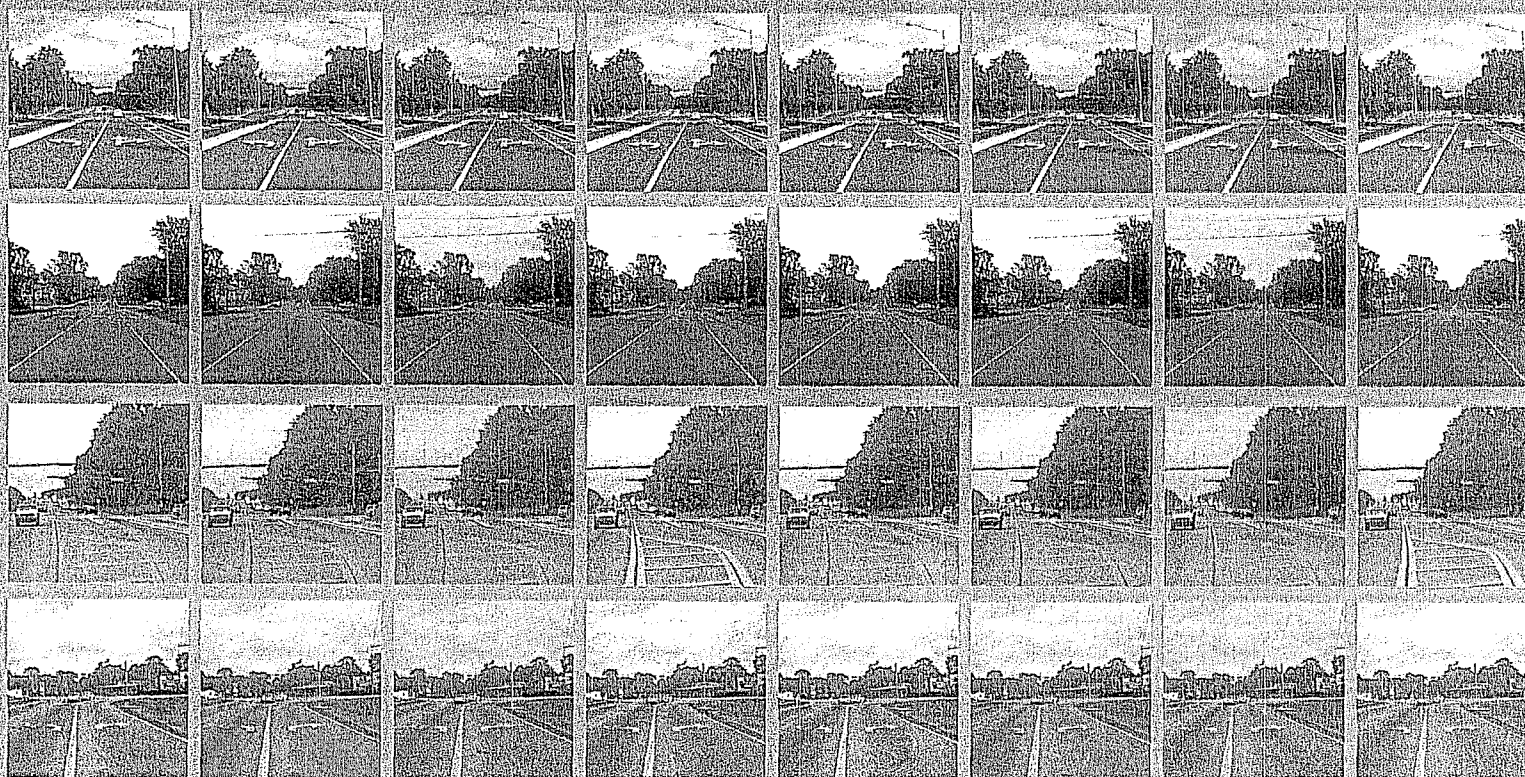






# Southwest 62<sup>nd</sup> Boulevard Connector Interim Projects

SR 24 (Archer Road) to SR 26 (Newberry Road)







## Purpose/Recommendation

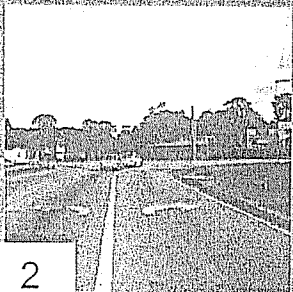
### ■ Recommendation

- Approve the 60% design plans as proposed and direct staff to proceed with the development of the 90% plans.

### ■ Interim Projects

- Southwest 40<sup>th</sup> Boulevard at Archer Road
- Southwest 20<sup>th</sup> Boulevard at Southwest 43<sup>rd</sup> Street
- Smart Bus Bay

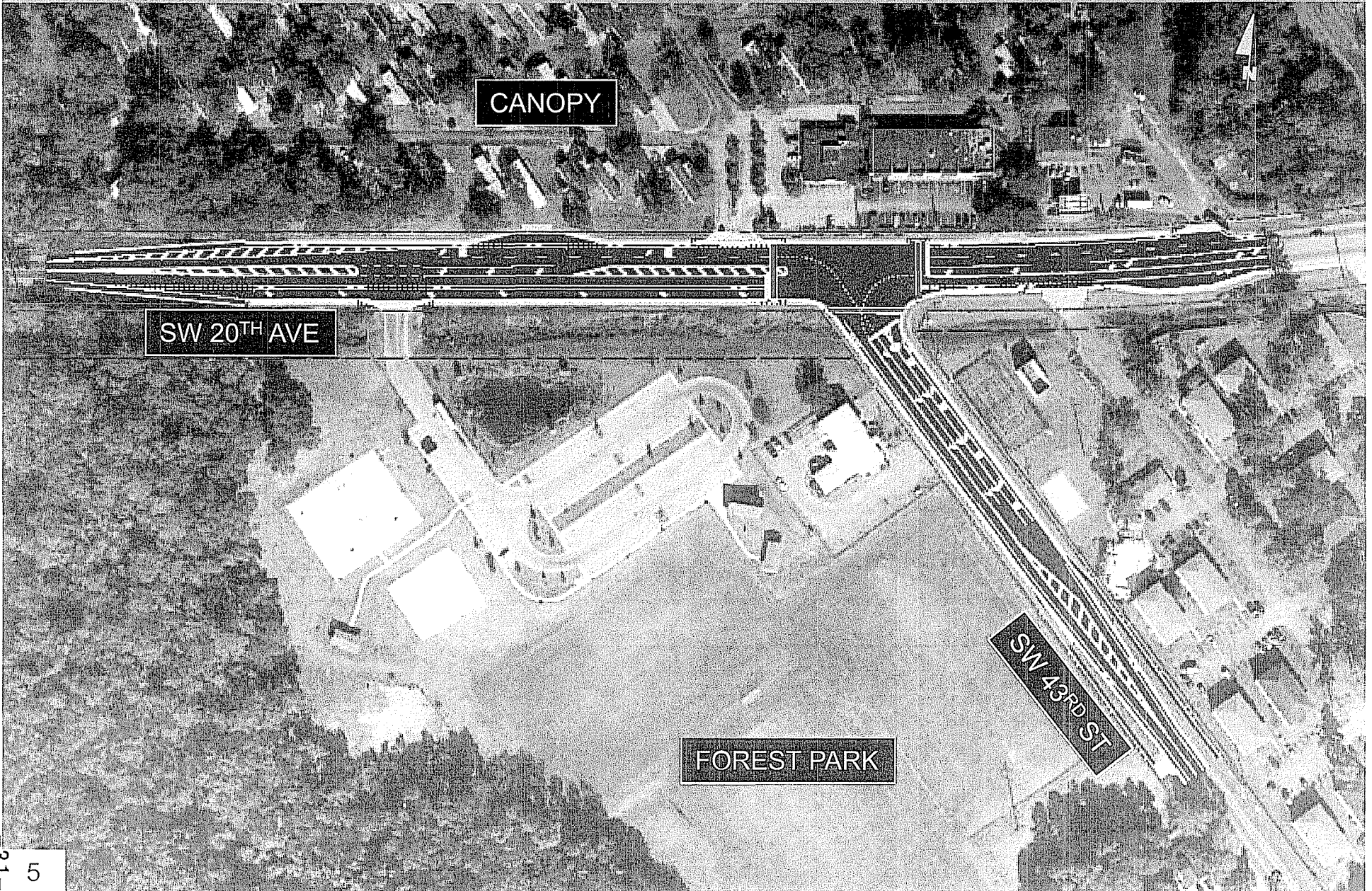
\* MTPo presentation scheduled for December 2009





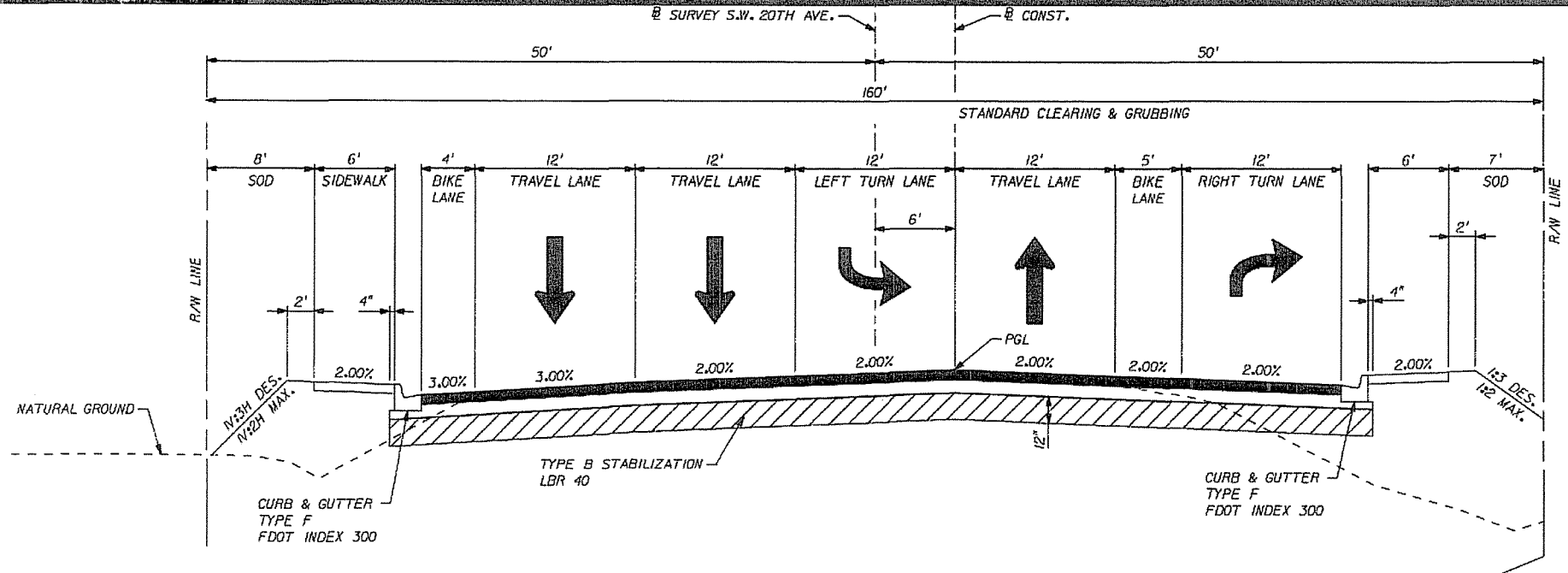


# SW 20<sup>th</sup> Avenue at SW 43<sup>rd</sup> Street





# Typical Section – SW 20<sup>th</sup> Ave







# Schedule

Nov Dec Jan Feb Mar Apr May

MTPO Review



90% Plans



Review



BOCC Presentation



Public Meeting



100% Plans



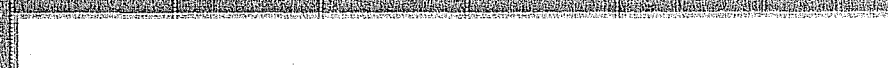
Review



Final Plans



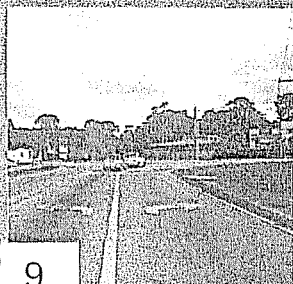
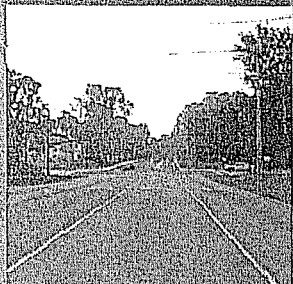
Permitting



Advertisement



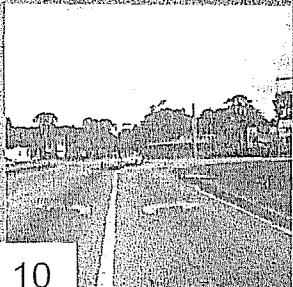
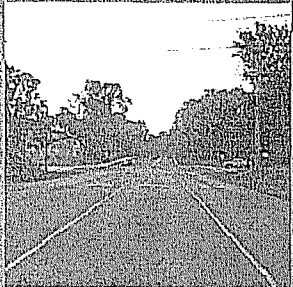
Construction Notice to Proceed – October 2010







## Purpose/Recommendation



### ■ Recommendation

- Approve the 60% design plans as proposed and direct staff to proceed with the development of the 90% plans.

### ■ Interim Projects

- Southwest 40<sup>th</sup> Boulevard at Archer Road
- Southwest 20<sup>th</sup> Boulevard at Southwest 43<sup>rd</sup> Street
- Smart Bus Bay

\* MTPo presentation scheduled for December 2009

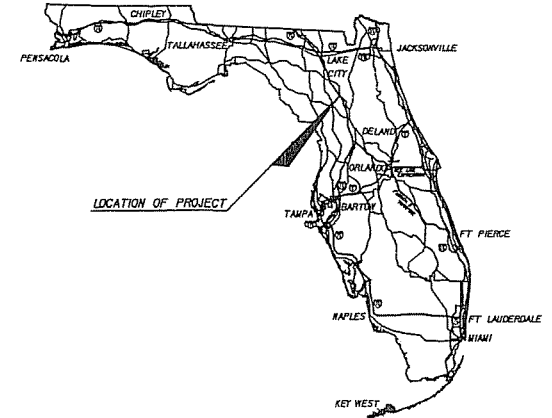
**ALACHUA COUNTY  
PUBLIC WORKS DEPARTMENT**

**CONTRACT PLANS**

FINANCIAL PROJECT ID 211365-0-03  
FEDERAL AID PROJECT NO. S124-002R  
ALACHUA COUNTY (51240)  
SW 20TH AVENUE AT SW 43RD STREET  
INTERSECTION IMPROVEMENTS

**INDEX OF SIGNING AND  
PAVEMENT MARKING PLANS**

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	TABULATION OF QUANTITIES
S-3	GENERAL NOTES
S-4 TO S-8	SIGNING AND PAVEMENT MARKING PLAN



**SIGNING AND PAVEMENT MARKING PLANS**

ROADWAY SHOP DRAWINGS  
TO BE SUBMITTED TO:

TERREL SHAW, P.E.  
HNTB CORPORATION  
7077 BONNEVAL ROAD  
SUITE 800, LIBERTY CENTER  
JACKSONVILLE, FL 32216  
PHONE NO. (904) 298-0207  
FAX NO. (904) 278-0280

PLANS PREPARED BY:

**HNTB**

HNTB CORPORATION  
7077 BONNEVAL ROAD  
SUITE 800, LIBERTY CENTER  
JACKSONVILLE, FL 32216  
PHONE NO. (904) 298-0207  
FAX NO. (904) 278-0280  
CERT. OF AUTH. NO. 6560

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

**PHASE II SUBMITTAL  
AUGUST 2009**

ROADWAY PLANS  
ENGINEER OF RECORD: TERREL SHAW, P.E.

P.E. NO. 50096

FISCAL YEAR	SHEET NO.
10	S-1

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

ALACHUA COUNTY PROJECT MANAGER: HA NGUYEN

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED 2008 AND  
STANDARD SPECIFICATIONS FOR ROAD  
AND BRIDGE CONSTRUCTION, DATED 2007,  
AS AMENDED BY CONTRACT DOCUMENTS.

REVISIONS

EXHIBIT 2

### TABULATION OF QUANTITIES

[illegible]

NOTE: PAY ITEM NO. 710-90, PAINTED PAVEMENT MARKINGS, SHALL BE PLACED AS PER PLAN FOR TEMPORARY PAVEMENT MARKINGS. QUANTITIES ARE AS PER THE CORRESPONDING THERMOPLASTIC PAVEMENT MARKINGS.

<b>REVISIONS</b>				ENGINEER OF RECORD: <b>TERRELL SHAW, P.E.</b> LIC. No. 50098 <div style="text-align: center; font-size: 1.5em;"><b>HNTB</b></div> 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 266-0207 FAX: (904) 266-0200	<b>ALACHUA COUNTY</b> <b>PUBLIC WORKS DEPARTMENT</b>			<h1>TABULATION OF QUANTITIES</h1>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-2
						ALACHUA	211365-0-03		



### SIGNING AND PAVEMENT MARKING GENERAL NOTES

1. PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN IN THE TRAFFIC DESIGN STANDARDS. SIGNING AND PAVEMENT MARKING SHALL BE INSTALLED IN ACCORDANCE WITH THE 2003 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ALL EXISTING ALACHUA COUNTY, CITY OF GAINESVILLE, OR RTA SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE REMOVED, STOCKPILED AND RELOCATED BY THE CONTRACTOR. SIGN REMOVAL SHALL BE DIRECTED BY THE PROJECT ENGINEER.
3. CAUTION SHALL BE EXERCISED WHILE RELOCATING EXISTING SIGNS TO PREVENT UNNECESSARY DAMAGE TO SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE PROJECT ENGINEER, SIGNS SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
4. EXISTING SIGNS SHALL REMAIN UNLESS OTHERWISE NOTED.
5. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED IN THE PLANS. THE QUANTITIES FOR PAINTED PAVEMENT MARKINGS, INDICATED IN THE TABLE OF QUANTITIES ON SHEET S-2, SHALL BE PLACED AS PER PLAN FOR TEMPORARY PAVEMENT MARKINGS. THE QUANTITIES FOR TEMPORARY PAVEMENT MARKINGS SHALL CORRESPOND TO THE THERMOPLASTIC PAVEMENT MARKINGS.
6. PAINTED PAVEMENT MARKINGS SHALL BE APPLIED BEFORE ROADWAY IS OPENED TO TRAFFIC. THERMOPLASTIC PAVEMENT MARKINGS TO BE APPLIED A MINIMUM OF 30 DAYS AFTER THE FINAL PAVEMENT MARKINGS HAVE BEEN CONSTRUCTED.
7. REFER TO F.D.O.T DESIGN STANDARDS INDEX No 17352 FOR RETRO-REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS.
8. THE SIGN LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
9. ALL ROUTE MARKER AUXILIARY PANELS SHALL MATCH THE COLOR COMBINATION OF THE RESPECTIVE MARKER WHICH THEY SUPPLEMENT.
10. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING CONSTRUCTION OR RELOCATED SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION. COST OF THIS WORK SHALL BE AT CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR SHALL MAINTAIN AND KEEP STREET NAME IDENTIFICATION SIGNS VISIBLE DURING CONSTRUCTION OPERATIONS IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
12. EXISTING SIGN PANELS AND/OR SIGN ASSEMBLIES TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE. REMOVED SIGNS SHALL BE STOCKPILED IN A SECURE LOCATION AWAY FROM TRAFFIC, AS DESIGNATED BY THE ENGINEER. ALL SIGN ASSEMBLIES SCHEDULED FOR REMOVAL SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR WITHIN 48 HOURS OF REMOVAL.
13. MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINING AND END OF PROJECT AND AT ALL SIDE STREETS.

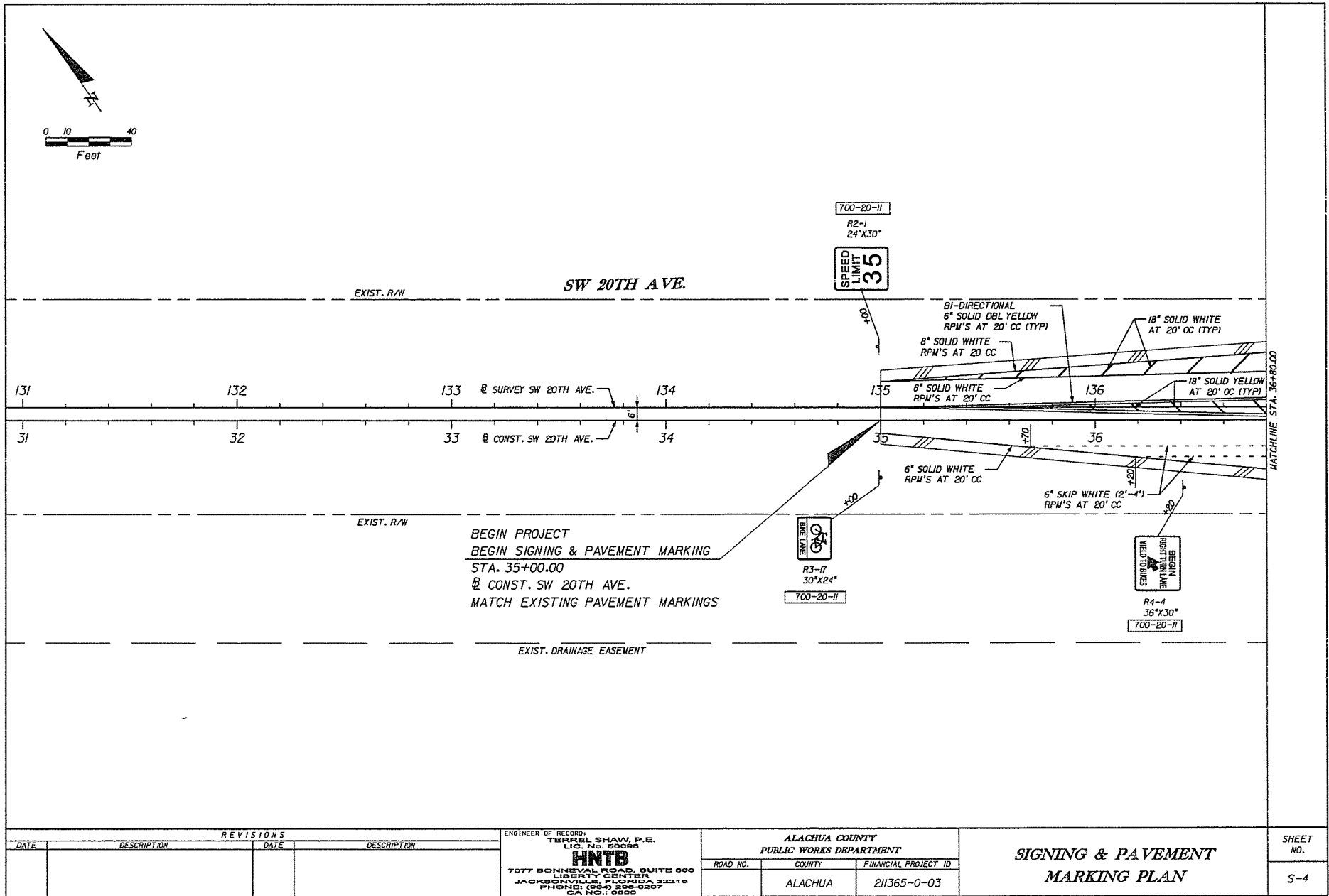
REVISIONS				ENGINEER OF RECORD TERRELL SHAW, P.E. LIC. No. 50096 <b>HNTB</b> 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 0600	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			GENERAL NOTES	SHEET NO.  S-3
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						ALACHUA	211365-0-03		

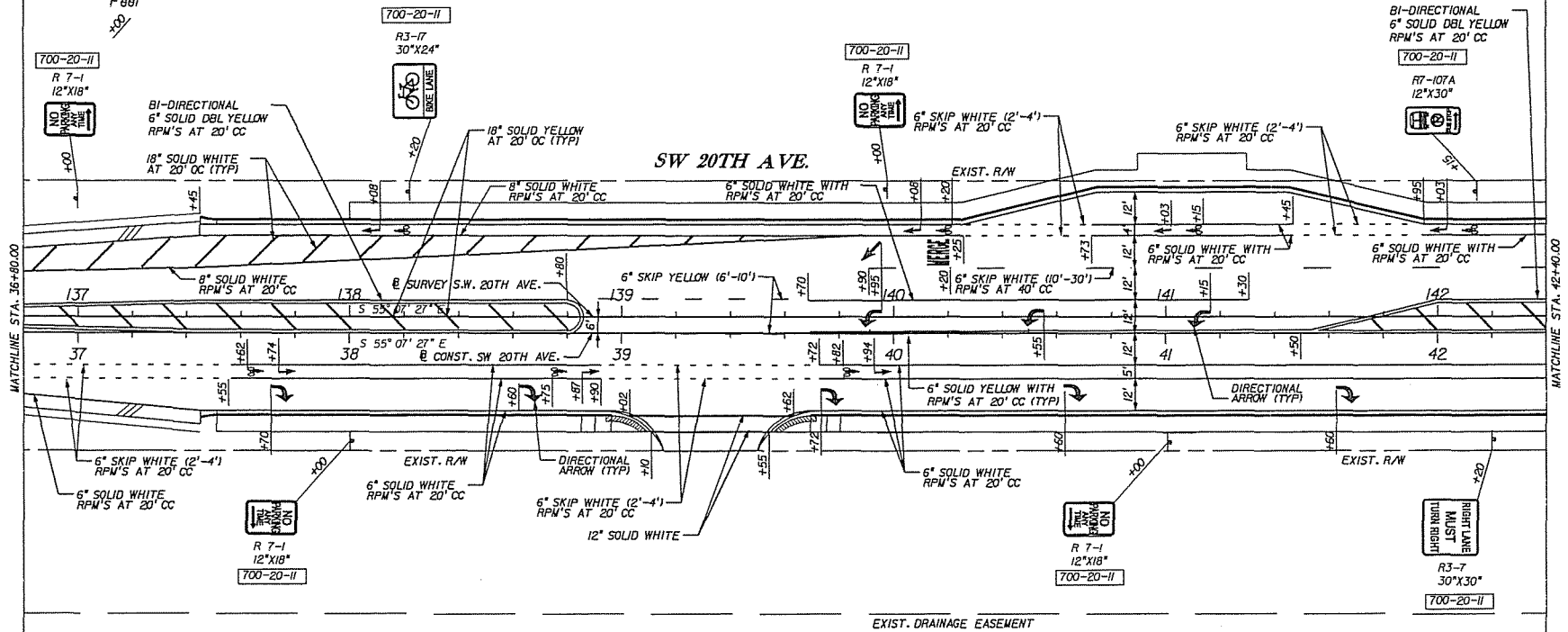
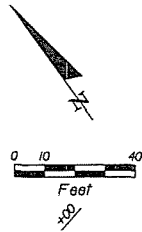
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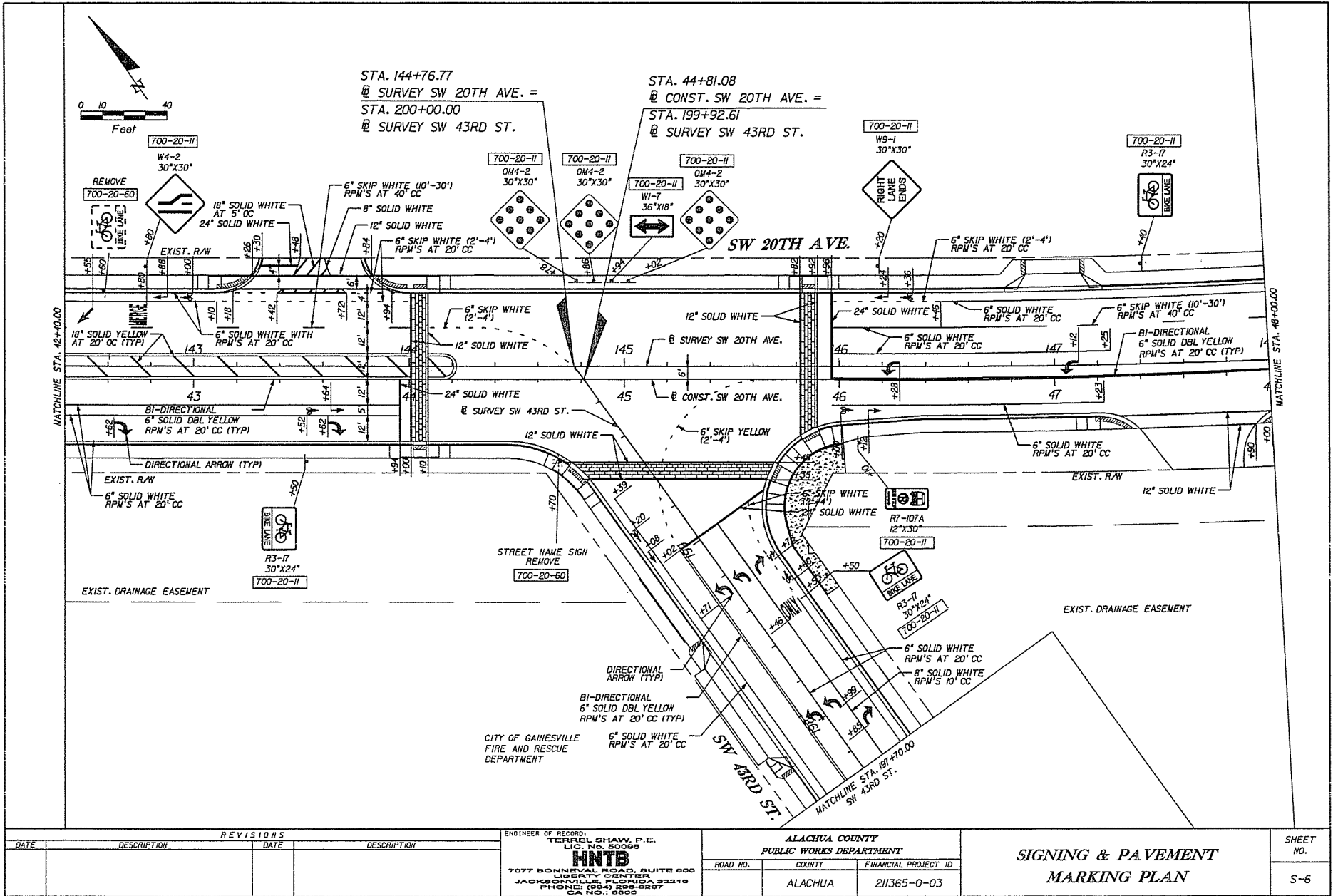
REVISIONS				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. NO. 50056 <b>HNTB</b> 7077 BONNEY ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FL 32216 PHONE: (904) 266-0207 CA NO. 16800	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT		SIGNING & PAVEMENT MARKING PLAN	SHEET NO.  S-5
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY		
						ALACHUA		
						211365-0-03		

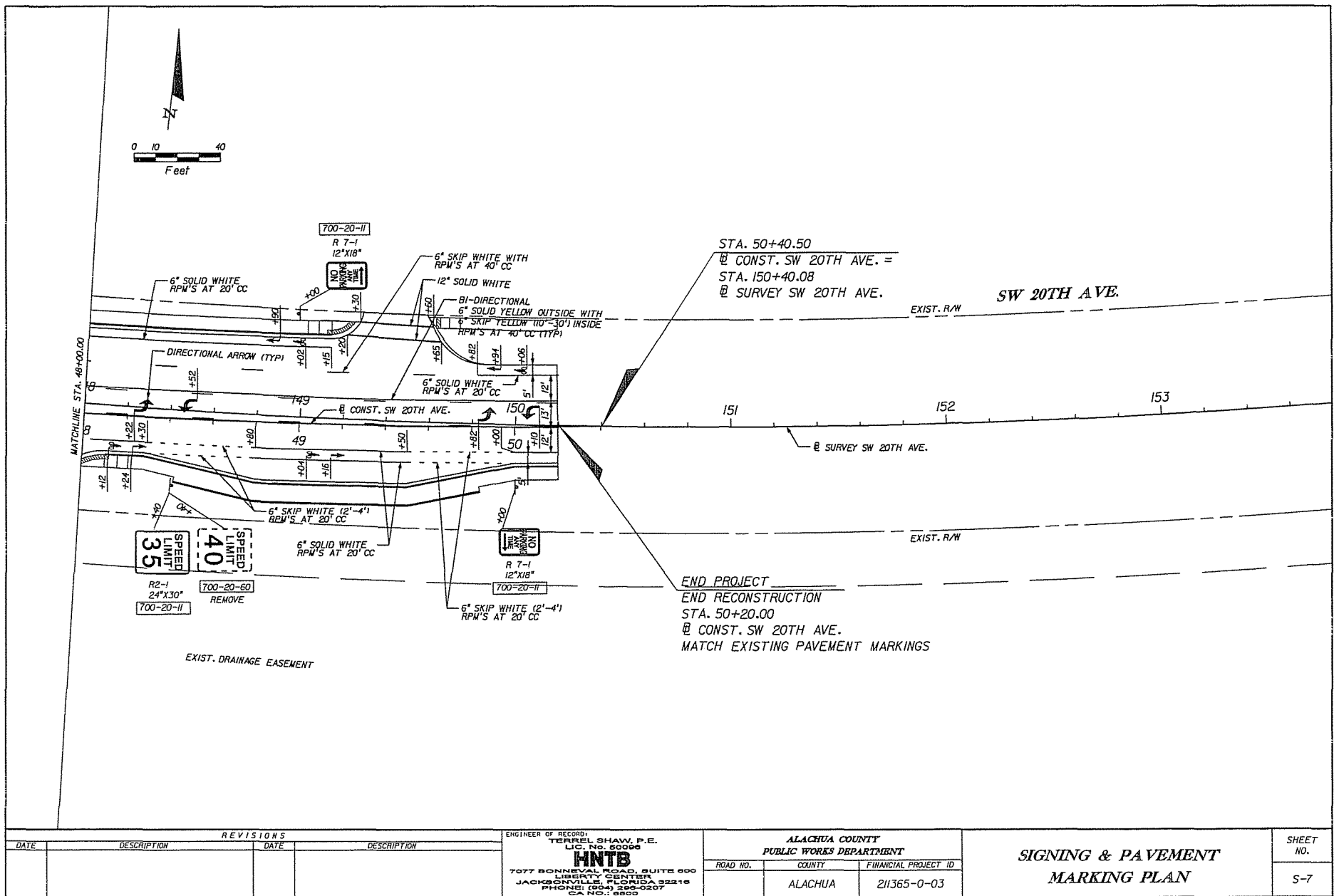
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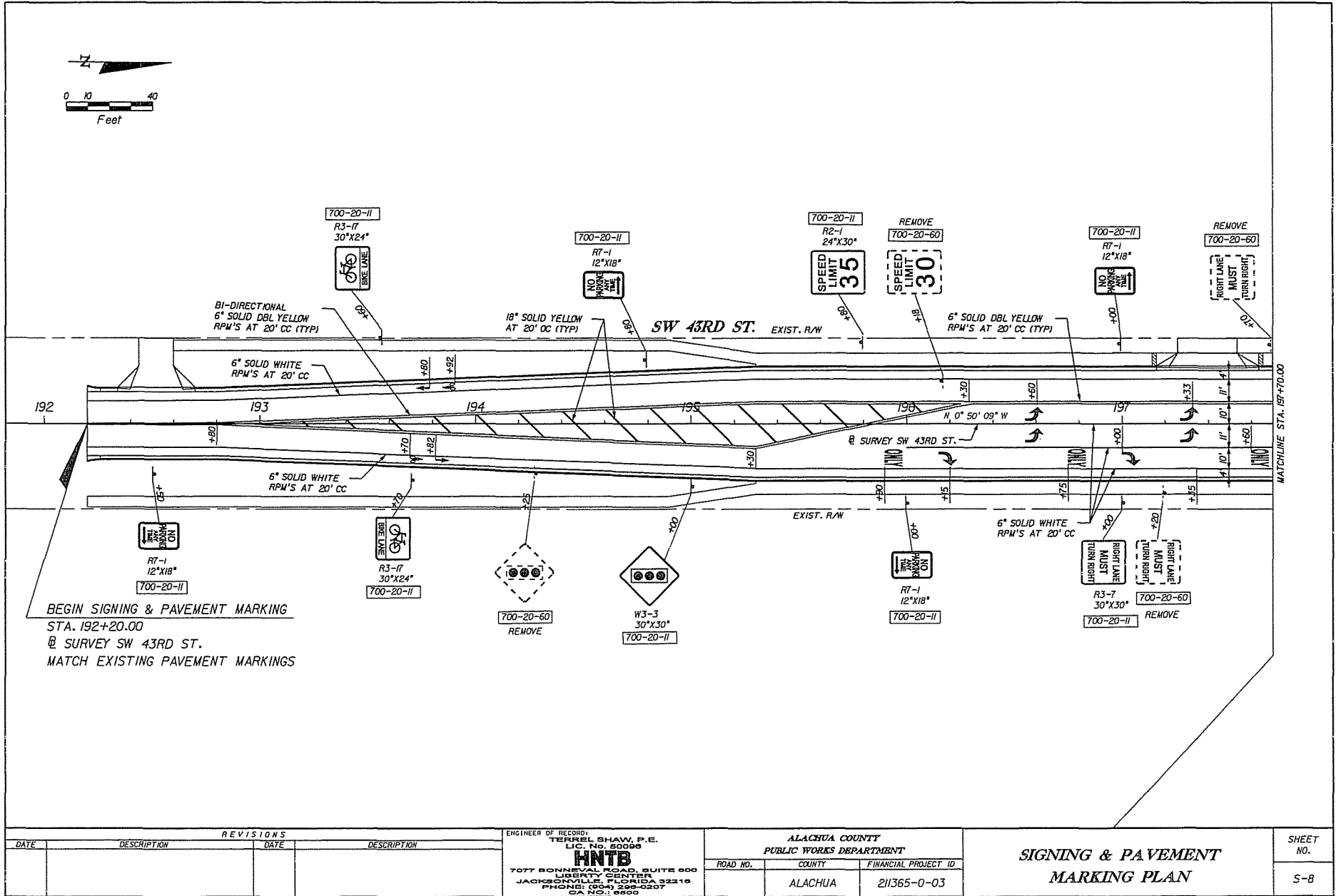
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**ALACHUA COUNTY  
PUBLIC WORKS DEPARTMENT**

**CONTRACT PLANS**

FINANCIAL PROJECT ID 211365-0-03  
FEDERAL AID PROJECT NO. S124-002R  
ALACHUA COUNTY (51240)  
SW 20TH AVENUE AT SW 43RD STREET  
INTERSECTION IMPROVEMENTS

**SIGNALIZATION PLANS**

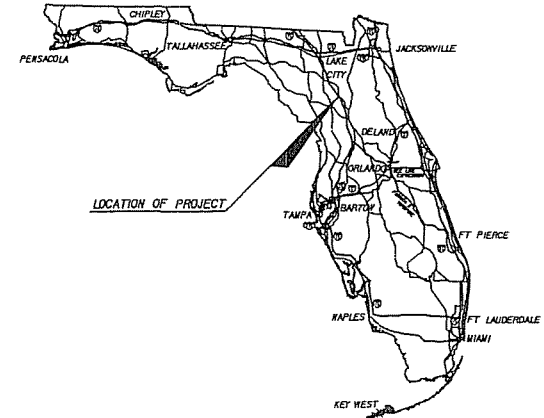
**INDEX OF SIGNALIZATION PLANS**

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	TABULATION OF QUANTITIES
T-3	GENERAL NOTES
T-4	SIGNALIZATION PLANS
T-5	MAST ARM TABULATION
T-6	TABLE OF VARIABLES FOR MAST ARM ASSEMBLIES
T-7	TRAFFIC SIGNAL DETAILS
T-8	GUIDESIGN WORKSHEET

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED 2000,  
AND STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION DATED 2007,  
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: TBA  
For Design Standards modifications click on:  
<http://www.dot.state.fl.us/cddes/sgv/>

REVISIONS



SIGNALIZATION SHOP DRAWINGS  
TO BE SUBMITTED TO:

STEVEN D. MIKESELL, P.E.  
HNTB CORPORATION  
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PLANS PREPARED BY:

**HNTB**

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CERT. OF AUTH. NO. 6600

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

**PHASE II SUBMITTAL  
AUGUST 2009**

SIGNALIZATION PLANS  
ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.

P.E. NO. 58703

FISCAL YEAR	SHEET NO.
10	T-1

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# TABULATION OF QUANTITIES

BID ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBER																		TOTAL THIS SHEET		GRAND TOTAL	
			T-4																					
			ORIGINAL	FINAL	ORIGINAL	FINAL	ORIGINAL	FINAL	ORIGINAL	FINAL	ORIGINAL	FINAL	ORIGINAL	FINAL	ORIGINAL	FINAL	ORIGINAL	FINAL	ORIGINAL	FINAL				
630-1-12	CONDUIT-SIGNALS, F&I, UNDERGROUND	LF																		0	0			
630-1-14	CONDUIT-SIGNALS, F&I, UNDERGROUND-JACKED	LF																		0	0			
632-7-1	CABLE-SIGNALS, F&I	PI																		0	0			
635-1-11	PULL BOXES, F&I	EA																		0	0			
635-1-16	PULL BOXES, F&I, SPECIAL	EA																		0	0			
639-1-22	SIGNALS- ELECTRICAL POWER SERVICE (UNDERGROUND)	AS																		0	0			
639-2-1	SIGNALS- ELECTRICAL SERVICE WIRE	LF																		0	0			
649-3X-XXX	MAST ARM ASSEMBLY (X1, X1) W/O LUM	EA																		0	0			
650-51-311	TRAFFIC SIGNAL (3-SECTION, 1-WAY) (LEDXSTD)	AS																		0	0			
650-51-511	TRAFFIC SIGNAL (5-SECTION, 1-WAY) (LEDXSTD)	AS																		0	0			
653-191	PEDESTRIAN SIGNALS (LED) (1-WAY COUNT DOWN)	AS																		0	0			
653-192	PEDESTRIAN SIGNALS (LED) (2-WAY COUNT DOWN)	AS																		0	0			
659-108	SIGNAL HEAD AUXILIARIES, F&I, STEEL PEDESTAL	EA																		0	0			
660-1-110	LOOP DETECTOR, INDUCTIVE, F&I, TYPE 10	EA																		0	0			
660-2-102	LOOP ASSEMBLY, F&I, TYPE B - 6'X6'	AS																		0	0			
663-74-11	VEHICLE DETECTOR ASSEMBLIES, F&I, OPTICAL	EA																		0	0			
663-74-15	VEHICLE DETECTOR ASSEMBLIES, F&I, VIDEO DETECTION	EA																		0	0			
665-11	PEDESTRIAN DETECTOR, F&I	EA																		0	0			
670-5-111	TRAFFIC CONTROLLER ASSEMBLY INAZTEC, TS-2, TYPE 1, MODEL 980)	AS																		0	0			
685-128	SYSTEM AUXILIARIES (INTERFACE PANEL)	EA																		0	0			
685-140	SYSTEM AUXILIARIES (FIBER OPTIC, MODULATOR/DEMODULATOR)	EA																		0	0			
690-10	TRAFFIC SIGNAL HEAD ASSEMBLY, REMOVAL	EA																		0	0			
690-32-1	POLE REMOVAL- SHALLOW	EA																		0	0			
690-33-1	POLE REMOVAL- DEEP	LF																		0	0			
690-50	CONTROLLER ASSEMBLY- REMOVE	EA																		0	0			
690-70	DETECTOR PEDESTRIAN ASSEMBLY, REMOVE	EA																		0	0			
690-80	SPAN WIRE ASSEMBLY REMOVE	EA																		0	0			
690-90	REMOVE CONDUIT & CABLING	PI																		0	0			
700-46-15	EXISTING SIGN, REMOVE, SPAN WIRE	AS																		0	0			
700-48-18	SIGN PANEL, INSTALL (15 or LESS SQ FT)	EA																		0	0			
700-89-2	ELECTRIC POWERED SIGN (BLANK-OUT SIGN)	EA																		0	0			
													</											

REVISIONS				ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E. FL LIC. No. 69703 <b>HNTB</b> 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 250-0207 CA NO. 1 6500	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						ALACHUA	211365-0-03	TABULATION OF QUANTITIES
								T-2



# GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE CITY OF GAINESVILLE TRAFFIC OPERATION DEPARTMENT MR. TRAVIS LAW AT (352)334-2155, AT LEAST 24 HOURS IN ADVANCE OF SETUP OF VIDEO DETECTION ZONES SO HE MAY OBSERVE THEIR INSTALLATION IF HE SO DESIRES.
2. IT SHOULD BE NOTED NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING OR TRENCHING. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO EXAMINE THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS IN ACCORDANCE WITH SECTION 2-4 OF THE FOOT SPECIFICATIONS.
3. THE CONTRACTOR SHALL ADHERE TO ALL CITY AND COUNTY ORDINANCES AND STATE REGULATIONS DURING ALL CONSTRUCTION OPERATIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICAL PRIOR TO ANY BORES AT THE DIRECTION OF THE ENGINEER. THIS SHOULD BE PERFORMED BY VACUUM EXCAVATION OR COMPARABLE NON DESTRUCTIVE EQUIPMENT. ALL RIGHT-OF-WAY SHALL BE RESTORED TO THE CONDITION WHICH EXISTED PRIOR TO THE BORE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE COMPANY PROVIDING ELECTRICAL POWER TO DETERMINE IF A SERVICE PROCESSING FEE IS REQUIRED. IF REQUIRED, FEE SHALL BE INCLUDED AS PART OF PAYMENT FOR ELECTRICAL POWER SERVICE ASSEMBLY.
6. THE CONTRACTOR SHALL VERIFY THE COLOR CODES OF THE SIGNAL CABLE WITH THE CITY OF GAINESVILLE BEFORE ORDERING.
7. THE CONTRACTOR SHALL PROVIDE A TWO MAN BUCKET TRUCK AND ASSIST THE FDOT INSPECTOR IN PHYSICALLY EXAMINING EACH SIGNAL HEAD THE SAME DAY IT IS ERECTED.
8. AT THE TIME OF FINAL PROJECT INSPECTION, THE CONTRACTOR SHALL FURNISH THE INSPECTOR THREE COMPLETE SETS OF AS-BUILT PLANS.
9. CONCRETE AREAS DISTURBED BY THE INSTALLATION OF PULL BOXES, "A-FRAMES", CONTROLLER CABINETS, SIGNAL MAST ARMS/POLES AND PEDESTRIAN POLES SHALL BE REPLACED. REPLACEMENT SHALL BE TO THE NEAREST EXPANSION JOINT.
10. NO POLYCARBONATE HOUSING OR MOUNTING HARDWARE WILL BE PERMITTED FOR VEHICULAR OR PEDESTRIAN SIGNAL HEAD ASSEMBLIES. ALL INDICATIONS FOR VEHICULAR AND PEDESTRIAN SIGNAL HEAD ASSEMBLIES SHALL BE LED.
11. ALL CONDUIT SHALL BE 2" MINIMUM UNLESS OTHERWISE SPECIFIED IN PLANS, EXCEPT ELECTRICAL POWER SERVICE DUCT.
12. PAYMENT FOR ELECTRICAL SERVICE WIRE NOT IN THE VERTICAL ASSEMBLY WILL BE PAID FOR PER LINEAR FOOT OF A SINGLE CONDUCTOR.
13. A MANUAL PUSH BUTTON CORD SHALL BE FURNISHED IN ALL CONTROLLER CABINETS.
14. DELAY TIMES FOR LDDPS/VDS MARKED "DELAY" SHALL BE SET TO 5 SECONDS.
15. DURING PRE-EMPTION, ALL DIRECTIONS SHALL BE RED WITH THE EXCEPTION OF THE APPROACH DIRECTION, WHICH SHALL BE GREEN.
16. UNLESS SPECIFIED OTHERWISE, ALL PULL BOX COVERS TO BE FURNISHED AND INSTALLED SHALL BE NON-METALLIC.
17. AS DIRECTED BY THE PROJECT ENGINEER, THE CONTRACTOR SHALL ADJUST CONDUIT & PULL BOXES HORIZONTALLY AND/OR VERTICALLY IN ORDER TO AVOID ANY POSSIBLE CONFLICTS WITH UNDERGROUND UTILITIES.
18. ALL FIELD WIRING SHALL BE NEATLY BUNDLED AND CLEARLY IDENTIFIED WITH PERMANENT, LEGIBLE, WEATHERPROOF TAPS THAT ARE SECURELY ATTACHED TO EACH CABLE. THE TAGGING SYSTEM PROPOSED SHALL BE SUBMITTED FOR APPROVAL WITH THE OTHER EQUIPMENT SUBMITTALS REQUIRED FOR THIS PROJECT.
19. ALL SIGNAL EQUIPMENT THAT IS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PLACE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE NOTED IN THE PLANS.
20. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT FOR SUPPORTING EXISTING UTILITY AND/OR SIGNAL POLES DURING CONSTRUCTION OF NEW MAST ARMS AND MAST ARM FOUNDATIONS. THE CONTRACTOR SHALL COORDINATE THIS EFFORT WITH THE UTILITY COMPANIES AND/OR THE LOCAL MAINTAINING AGENCY. PAYMENT TO BE INCLUDED IN THE ASSOCIATED MAST ARM PAY ITEM NUMBER.
21. ALL PEDESTRIAN SIGNAL INDICATIONS SHALL BE COUNT-DOWN PEDESTRIAN SIGNAL INDICATIONS AND ALL PEDESTRIAN SIGNALS SHALL HAVE INTERNATIONAL SYMBOLS AND BE COUNT-DOWN.
22. WHEN JACKING CONDUIT UNDER PAVEMENT THE CONTRACTOR MAY USE A FDOT APPROVED GUIDED BORING SYSTEM AS AN ALTERNATE METHOD OF CONSTRUCTION, AN ACCEPTABLE METHOD IS THE DITCH WITH JET-TRAC OR EQUIVALENT.
23. WHEN THE CONTRACTOR IS REMOVING EXISTING TWISTED PAIR CABLE AND/OR RUNNING NEW FIBER OPTIC CABLE THE CONTRACTOR SHALL TAKE EVERY PRECAUTION SO NOT TO DAMAGE ANY EXISTING FIBER OPTIC CABLE STILL IN SERVICE. DAMAGED FIBER OPTIC CABLE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
24. AN EXCAVATION EXCEEDING 18 INCHES SHALL BE DONE BY HAND WITHIN 5 FEET OF ANY FIELD LOCATED UNDERGROUND UTILITY.
25. WHEN A CONTRACTOR IS WORKING ON SIGNAL WORK IN AN INTERSECTION (INSTALLING CONDUIT IN THE STREET, REMOVING EXISTING SIGNAL EQUIPMENT, INSTALLING NEW SIGNAL EQUIPMENT AND RUNS AND TURNING ON OF NEW SIGNALS) WHERE A LANE IS TO BE CLOSED, AN OFF-DUTY LAW ENFORCEMENT OFFICER SHALL DIRECT TRAFFIC. THE HOURLY RATE OF PAY FOR AN OFF-DUTY LAW ENFORCEMENT OFFICER CAN BE OBTAINED FROM THE OFFICE OF THE LAW ENFORCEMENT OFFICER. THIS COST SHALL BE INCLUDED IN PAY ITEM 102-114071.
26. MAINTENANCE OF TRAFFIC SHALL CONFORM TO FDOT DESIGN STANDARDS.
27. THE CONTRACTOR SHALL NOTIFY THE SUNSHINE STATE ONE CALL AT 1-800-432-4770 AND THE APPROPRIATE UTILITY COMPANIES LISTED IN THE TABLE BELOW AT LEAST 2 FULL BUSINESS DAYS IN ADVANCE OF POLE CONSTRUCTION OPERATIONS, WHERE CONFLICT WITH UNDERGROUND UTILITIES OR OVERHEAD ELECTRICAL CONDUCTORS IS EXPECTED AND IN ALL CASES WHERE JOINT USE POLES ARE CALLED FOR.

CLAY ELECTRIC	STEVE LAW	352-337-8115
CDK COMMUNICATIONS	GARY HARRELL	352-337-2052
GRU WASTEWATER /WATER	JASON SPARKS	352-393-4642
GRU ELECTRIC	WALLY SEALER	352-334-3400 EXT 6056
GRU GAS	MIKE BROWN	352-393-1466
AT&T	EVERETT SPARKS	352-331-9147

# SPECIAL NOTES:

1. THE COST OF FURNISHING AND INSTALLING THE FTP-25-06 AND RD-3E (INTERNATIONAL) SIGNS SHALL BE INCLUDED IN PAY ITEM NO. 663-11.
2. SIGNAL PEDESTAL AND SIGNAL POLE STATIONING AND OFFSETS MAY REQUIRE MINOR ADJUSTMENTS IN THE FIELD TO ENSURE HORIZONTAL CLEARANCE FROM FACE OF CURB TO CLOSEST SURFACE OF POLE AND WITHIN ROADWAY RIGHT-OF-WAY AND TO MAINTAIN A 4.0' MINIMUM SIDEWALK WIDTH. ANY RELOCATED POLES SHALL BE PLACED TO PROVIDE THE MAXIMUM SIDEWALK CLEARANCE POSSIBLE WITHIN ROADWAY RIGHT-OF-WAY.
3. CONTRACTOR TO HAND DIG THE FIRST 4.0' OF POLE FOUNDATIONS AND CONTACT THE APPROPRIATE UTILITY COMPANIES FOR LOCATES 2 FULL BUSINESS DAYS PRIOR TO ANY EXCAVATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL MAST ARM AND ROADWAY ELEVATIONS PRIOR TO FABRICATING MAST ARMS.
5. THE CONTRACTOR IS TO PROVIDE THREE ADDITIONAL CONDUIT RUNS PULLED AND CAPPED FROM THE CONTROLLER TO THE NEAREST PULL BOXES.
6. ALL PEDESTRIAN PHASES TO BE PUSH BUTTON ACTUATED WITH SOLID STATE SWITCH, MOMENTARY LED AND TONE (EX. BULLDOG PUSHBUTTON).
7. THE CONTRACTOR SHALL CONTACT PHILIP MANN, (352) 334-5074, AT THE CITY OF GAINESVILLE TRAFFIC OPS DEPARTMENT TO OBTAIN A COLOR CHIP FOR THE PAINTING OF PEDESTRIAN POLES AND MAST ARM POLES. THE BRAND OF PAINT SHALL BE DETERMINED BY THE POLE MANUFACTURER. PAINT SHALL BE APPLIED PER SPECIFICATION 649 AND 563.
8. ANY REQUIRED FIELD TOUCH-UP OF PAINTED SURFACES SHALL BE IDENTIFIED BY THE FDOT ENGINEER. ALL PAINT APPLIED IN THE FIELD SHALL BE DONE WITH BRUSH, ROLLER OR GLOVE. NO SPRAY PAINTING SHALL BE ALLOWED.
9. INTERCONNECT/FIBER OPTIC CABLE AND SIGNAL CABLE ARE TO BE PLACED IN SEPARATE CONDUITS AND PULL BOXES.
10. FINAL SIGNAL POLE PLACEMENT SHALL BE A MINIMUM OF 6' FROM ALL OVERHEAD UTILITIES.
11. SIGNAL HEADS SHALL BE LOCATED AS SHOWN IN THE PLANS. A MINIMUM OF 8' HORIZONTAL SEPARATION BETWEEN SIGNAL HEADS SHALL BE MAINTAINED FOR EACH MOVEMENT.
12. ALL ASTRO BRACKETS SHALL ARTICULATE AND HAVE BUILT INTO THE HOUSING A 12" (MINIMUM) CONDUCTOR TERMINAL STRIP, PELCO MODEL #A8012 OR APPROVED EQUIVALENT.
13. THE CONTRACTOR SHALL VERIFY STREET NAME SIGN MESSAGES PRIOR TO FABRICATION. BLOCK NUMBERS AND/OR ARROWS MAY BE REQUIRED.
14. MAXIMUM SIGNAL TIMINGS, PRE-EMPTION TIMINGS AND SYSTEM TIMINGS ARE TO BE PROVIDED BY THE CITY OF GAINESVILLE. CONTACT PHILIP MANN AT THE CITY OF GAINESVILLE TRAFFIC OPS DEPARTMENT, (352) 334-5074, FOR THE REQUIRED INFORMATION.
15. IN ADDITION TO THE REQUIREMENTS SET FORTH IN THE FOOT SPECIFICATIONS, ELECTRICAL POWER SERVICE IS TO INCLUDE CONSTRUCTING WETTER/DISCONNECT FRAME STAND PER DETAIL SHOWN ON THE TRAFFIC SIGNAL DETAILS SHEET. HEIGHT OF THE A-FRAME TO BE DETERMINED BASED UPON THE HEIGHT REQUIREMENTS FROM THE POWER COMPANY FOR THE DISCONNECT.
16. PAY ITEM NO. 639-1-22 SHALL INCLUDE PAYMENT FOR THE "A" FRAME DISCONNECT DETAILED IN THE PLANS.
17. WHERE MULTIPLE CONDUIT RUNS CROSS THE MAINLINE AND/OR SIDE STREET, THE FIRST RUN ACROSS EACH LED SHALL BE PAID FOR UNDER PAY ITEM 630-1-14. EACH ADDITIONAL RUN SHALL BE PAID FOR UNDER PAY ITEM 630-1-12.
18. PAYMENT FOR POWER SERVICE PULL BOXES TO BE INCLUDED UNDER PAY ITEM NO. 635-1-11.
19. YELLOW FLASHING BEACONS AND RED FLASHING BEACONS WILL BE USED TO CONTROL TRAFFIC ON MAJOR AND MINOR ROADS DURING FLASHING OPERATION, RESPECTIVELY.
20. THE CONTRACTOR SHALL ADJUST, AS DIRECTED BY THE ENGINEER, THE LOCATIONS OF THE SIGNAL MAST ARMS/POLES, CONDUITS, PULL BOXES, ETC., TO AVOID ANY UTILITY CONFLICTS.
21. PAY ITEM NUMBER 670-5-111 SHALL INCLUDE NAZTEC TYPE-VI CONTROLLER CABINET W/ETHERNET, NAZTEC TS-2 TYPE-I (HEWA) CONTROLLER, GENERATOR PLUG, CISCO INDUSTRIAL SWITCH AND LED M4U.
22. PAY ITEM NO. 663-74-11 SHALL INCLUDE AN URBAN AREA PREEMPTION SYSTEM. THIS SYSTEM SHALL BE FULLY COMPATIBLE WITH THE EXISTING CITY OF GAINESVILLE PREEMPTION SYSTEM (3M OPTICOM). ALL NECESSARY EQUIPMENT SHALL BE PAID FOR UNDER THIS BID ITEM NUMBER. NECESSARY EQUIPMENT SHALL INCLUDE BUT NOT BE LIMITED TO:  
3M OPTICOM PHASE SELECTOR MODEL 754 CHANNELS,  
3M OPTICOM MODEL 757 AUXILIARY DETECTOR/GREEN SENSE HARNESS,  
3M OPTICOM DETECTOR CABLE MODEL 138 (APPROXIMATELY 200 FEET PER RUN),  
3M OPTICOM DETECTOR MODELS 711, 721 OR 722 DEPENDING ON INTERSECTION LAYOUT.  
THE CONTRACTOR SHALL SEEK FINAL DETECTOR PLACEMENT APPROVAL FROM THE CITY OF GAINESVILLE TRAFFIC OPERATIONS SECTION BEFORE BIDDING AND INSTALLATION. CITY OF GAINESVILLE TRAFFIC OPERATIONS CAN BE CONTACTED AT (352) 334-2155.
23. PAY ITEM NO. 663-74-15 TO INCLUDE VIDEO DETECTORS FOR ACTUATION. THE NUMBER AND TYPE OF DETECTORS ARE SHOWN ON THE PLANS. THE PAY ITEM IS TO INCLUDE CAMERAS, A VIDEO DETECTION PROCESSOR (VDP) HOUSED IN A DURABLE METAL ENCLOSURE SUITABLE FOR SHELF MOUNTING, A VIDEO MONITOR, A THREE BUTTON MOUSE (POINTING DEVICE) THAT INTERFACES FULLY WITH THE VDP AND A BLACK AND WHITE VIDEO MONITOR AS NECESSARY TO MAKE THE ACTUATED SIGNAL FULLY OPERATIONAL AND FUNCTIONAL. THE INITIAL DETECTION ZONES SHALL BE 6' X 30' FOR THE SIDE STREETS AND FOR LEFT TURN MOVEMENTS ON THE MAIN STREET. THE ADVANCE DETECTION ZONES SHALL BE 6' X 6'. THE VIDEO DETECTION SYSTEM SHALL BE FULLY COMPATIBLE WITH THE EXISTING SYSTEMS IN PLACE IN ALACHUA COUNTY. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CITY OF GAINESVILLE TRAFFIC SIGNALS DIVISION AND ALACHUA COUNTY PUBLIC WORKS DEPARTMENT PRIOR TO BIDDING AND INSTALLATION.

REVISED				ENGINEER OF RECORD: STEVEN D. MIKESBELL P.E. FL LIC. NO. 58703 <b>HNTB</b> 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32218 PHONE: (904) 298-0207 CA NO. 1-6800	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  T-3
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						ALACHUA	211365-0-03	

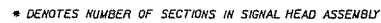
GENERAL NOTES

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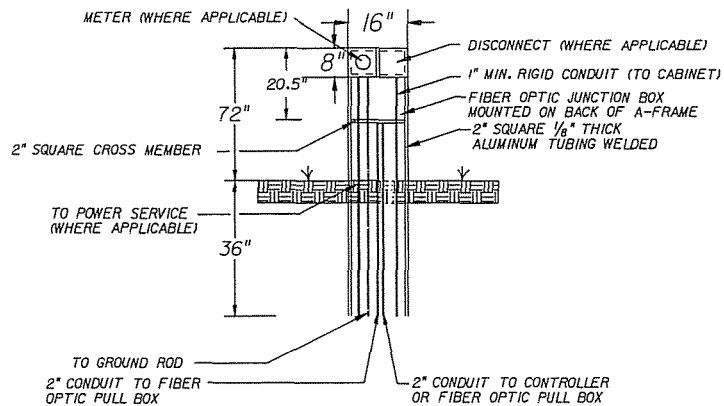
ARM NO. 2 - DOUBLE ARM POLE ORIENTATION TO BE MEASURED IN A COUNTER CLOCKWISE DIRECTION FROM ROADWAY ARM NO. 1.

ARM NO. 1 - SINGLE ARM POLE OR LONGEST ARM FOR DOUBLE ARM POLE.

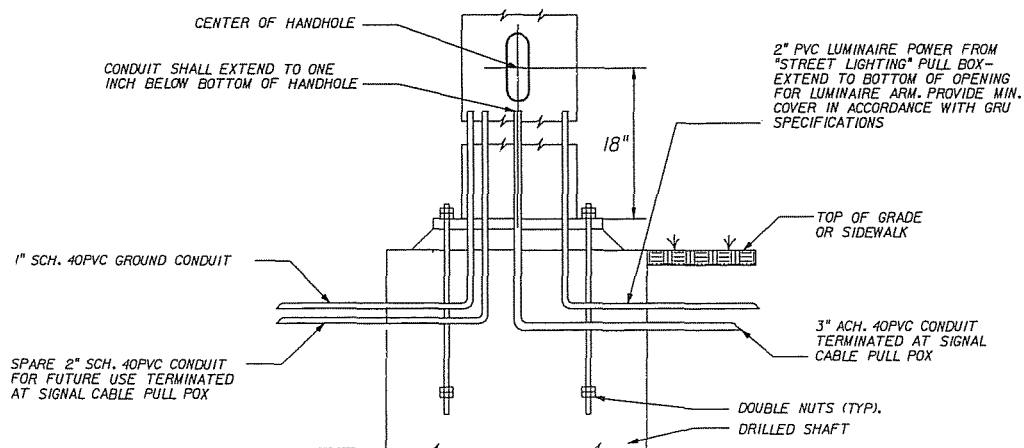


REVISIONS				<div>ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E. FL LIC. No. 58703</div> <div><b>HNTB</b></div> <div>7077 BONNEVEAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 298-0207 FAX: (904) 298-0300</div>	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  T-5
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						ALACHUA	211365-0-03	
				MAST ARM TABULATION				

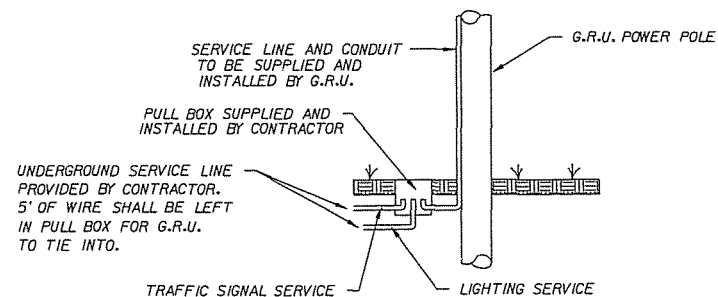




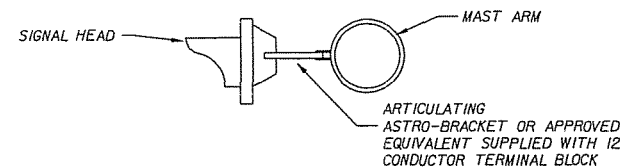
METER / DISCONNECT  
FRAME STAND DETAIL  
639-1-22  
N.T.S.



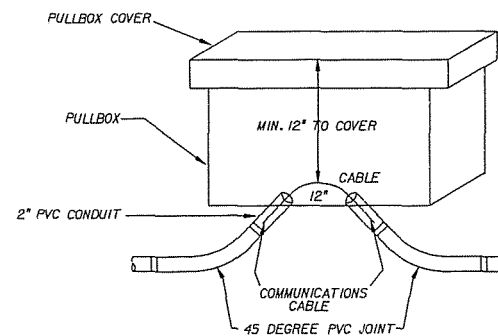
CANTILEVER SIGNAL STRUCTURE  
FOUNDATION AND BASE PLATE DETAIL  
NOTE: REINFORCEMENT AND WINGS NOT SHOWN  
N.T.S.



UNDERGROUND POWER  
SERVICE DETAIL  
N.T.S.



SIGNAL HEAD BRACKET  
ATTACHMENT DETAIL  
N.T.S.



COMMUNICATIONS CABLE  
CONDUIT INSTALLATION DETAIL

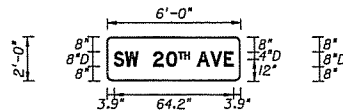
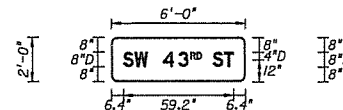
REVISIONS				ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E. FL LIC. No. 88763 <b>HNTB</b> 7677 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 226-0297 CA NO. 1 6650	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TRAFFIC SIGNAL DETAILS	SHEET NO.  T-7
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						ALACHUA	211365-0-03		

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD:  
STEVEN D. MIKESELL P.E.  
FL LIC. No. 58703

**HNTB**

7077 BONNEVAL ROAD, SUITE 600  
LIBERTY CENTER  
JACKSONVILLE, FLORIDA 32218  
PHONE: (904) 296-0207  
CA. NO.: 6800

## OVERHEAD STREET NAME SIGN NOTES:

1. SIGN SIZES SHALL BE A MINIMUM OF 24"x72" TO A MAXIMUM OF 24"x96". THE SIZE OF THE SIGN SHALL BE INCREASED IN 6" INCREMENTS UNTIL CONTRACTOR SHALL NOT REDUCE LETTER SPACING UNLESS MESSAGE WILL NOT FIT ON PANEL. METAL SHALL BE MINIMUM .025 ALUMINUM.
2. SHEETING FOR OVERHEAD STREET NAME SIGNS SHALL BE TYPE III RETRO-REFLECTIVE FOR LEGENDS, BORDER AND BACKGROUND.
3. AVOID ABBREVIATION, IF ABSOLUTELY NECESSARY, USE THE FOLLOWING: BOULEVARD (BLVD), AVENUE (AVE), STREET (ST), TERRACE (TERR), PLACE (PL), DRIVE (DR), ROAD (RD), LAKE (LN).
4. PLACEMENT TO THE EXTENT POSSIBLE, PANELS WILL BE ATTACHED TO THE RIGHT OF THE OUTSIDE MOST SIGNAL HEAD MAINLINE ONLY (EXCEPT WHERE TWO STATE ROADS OR TWO MAJOR GENERATORS CROSS).
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE MESSAGES WITH THE LOCAL MAINTAINING AGENCY BEFORE FABRICATING THE SIGNS. SHOP DRAWINGS WILL BE REQUIRED.
6. OUTSIDE CORNERS OF SIGN FACE TO BE CUT CONCENTRIC WITH BORDER. BORDER TO BE MOUNTED PARALLEL TO EDGE OF SIGN.
7. SIGN PANEL INSTALLATION TO INCLUDE ALL ATTACHMENT HARDWARE REQUIRED FOR INSTALLING OVERHEAD STREET NAME SIGN ON NEW MAST ARMS INCLUDING WIND BEAMS.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GUIDESIGN WORKSHEET	SHEET NO.
ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-8
	ALACHUA	211365-0-03		
DATE: 11/22/2009		BY: SC/BJ BU	CSW/009, dm	

# North Central Florida Regional Planning Council

2009 N.W. 67 PLACE, SUITE A, GAINESVILLE, FLORIDA 32653-1603  
(352) 955-2200 SUNCOM 625-2200 FAX (352) 955-2209

November 9, 2009



TO: Metropolitan Transportation Planning Organization (MTPO)

FROM: Marlie Sanderson, AICP, Director of Transportation Planning

SUBJECT: SW 62<sup>nd</sup> Connector Interim Projects 60 Percent Design Plans-  
Smart Bus Bay on SW 20<sup>th</sup> Avenue

## MTPO STAFF RECOMMENDATION

Approve the 60 Percent Design Plans.

## BACKGROUND

The Smart Bus Bay on SW 20<sup>th</sup> Avenue project is one of three interim projects resulting from the SW 62<sup>nd</sup> Connector Project Development and Environmental Study. Alachua County has submitted 60 Percent Design Plans for review. This interim project is being funded using the federal SAFETEA-LU High Priority Funds (also called "earmark funds").

Exhibit 1 includes portions of the Interim Project slideshow. Exhibit 2 includes the 60 percent Design Plan Signing and Pavement Marking Plans and the Signalization Plans. To also review the full set of design plans, refer to the MTPO website:

<http://ncfrpc.org/mtpo/index.html>

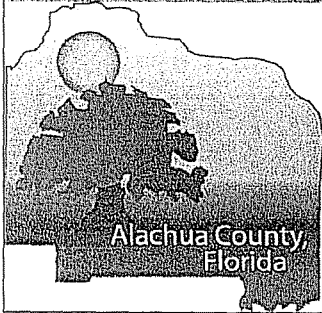
Smart Bus Bay on SW 20 <sup>th</sup> Avenue Project- Programmed Funds Timeline				
2008/2009	2009/2010	2010/2011	2011/2012	2012/2013
\$5.578 million* (construction)	-	-	-	-

\*Funding for all three interim projects

Enclosures

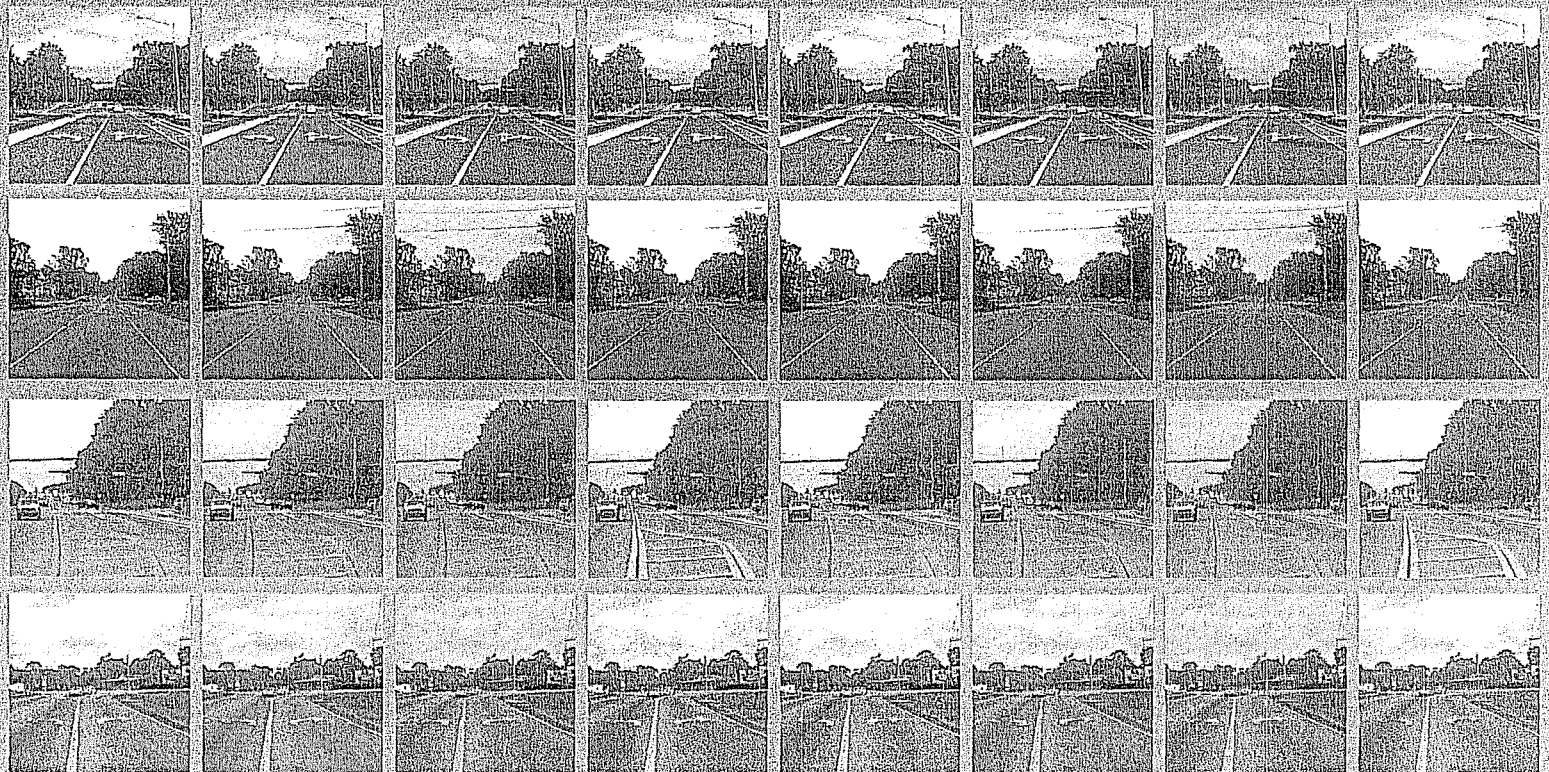






# Southwest 62<sup>nd</sup> Boulevard Connector Interim Projects

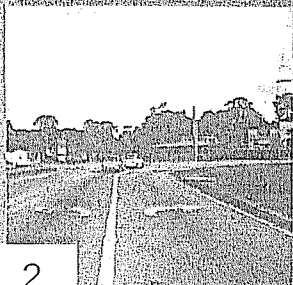
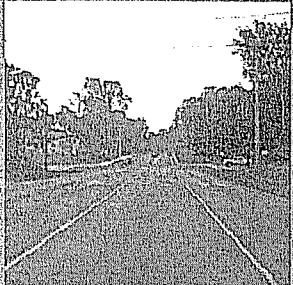
SR 24 (Archer Road) to SR 26 (Newberry Road)







## Purpose/Recommendation



### ■ Recommendation

- Approve the 60% design plans as proposed and direct staff to proceed with the development of the 90% plans.

### ■ Interim Projects

- Southwest 40<sup>th</sup> Boulevard at Archer Road
- Southwest 20<sup>th</sup> Boulevard at Southwest 43<sup>rd</sup> Street
- Smart Bus Bay

\* MTP0 presentation scheduled for December 2009





# Schedule

Nov Dec Jan Feb Mar Apr May

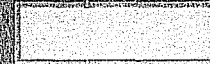
MTPO Review



90% Plans



Review



BOCC Presentation



Public Meeting



100% Plans



Review



Final Plans



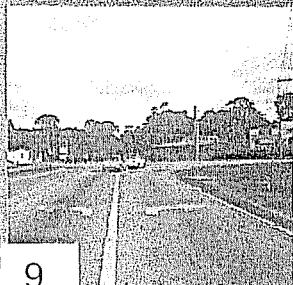
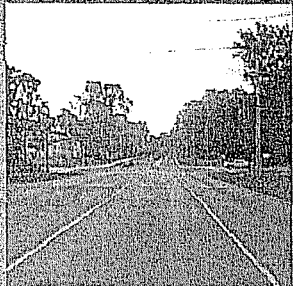
Permitting



Advertisement



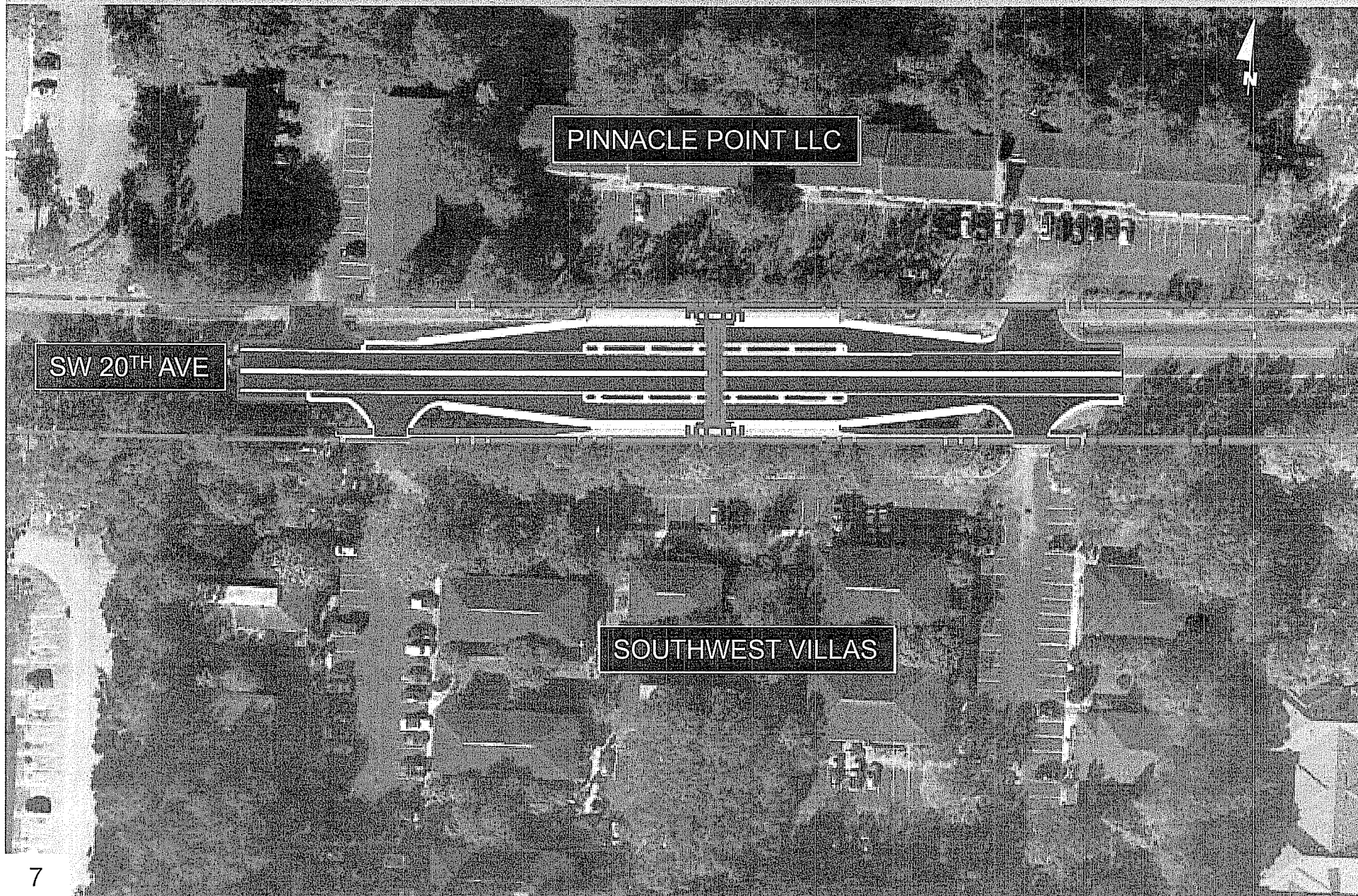
Construction Notice to Proceed – October 2010





**HNTB**

# SW 20<sup>th</sup> Avenue Smart Bus Bay



SW 20<sup>TH</sup> AVE

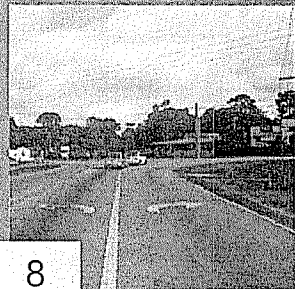
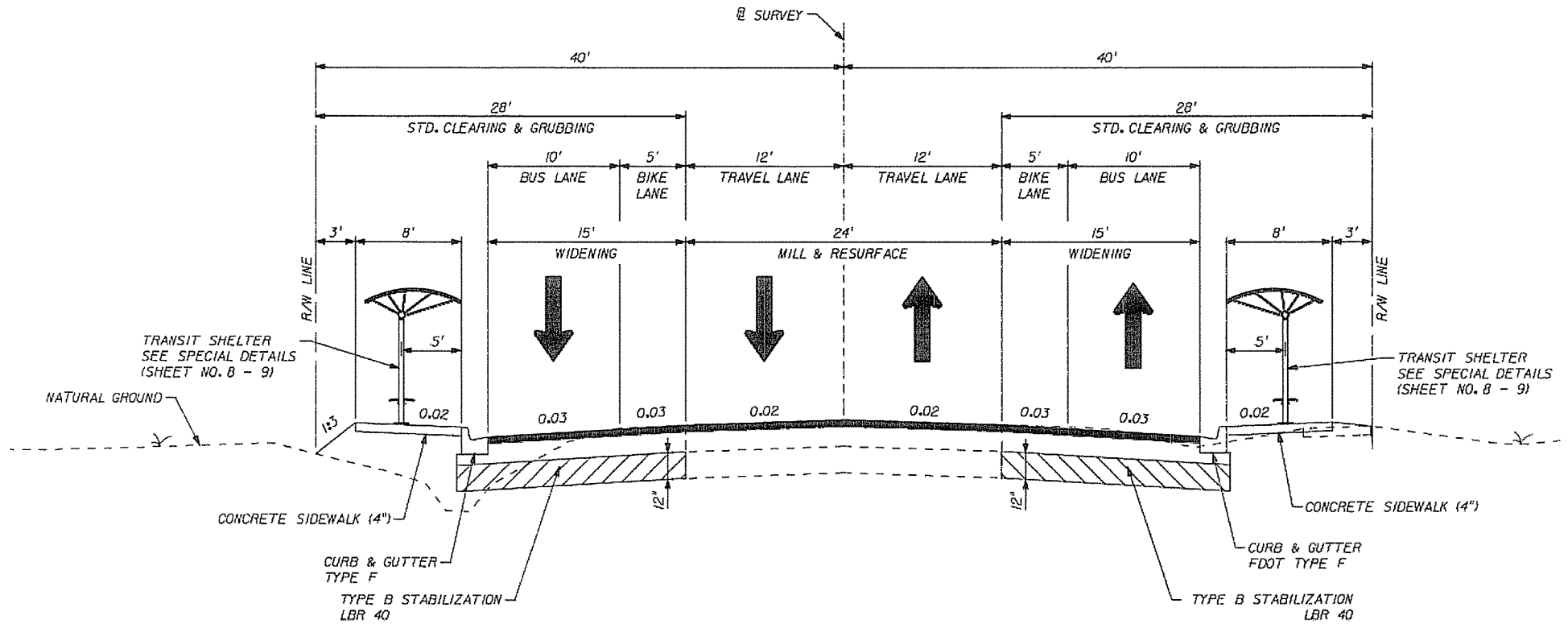
PINNACLE POINT LLC

SOUTHWEST VILLAS



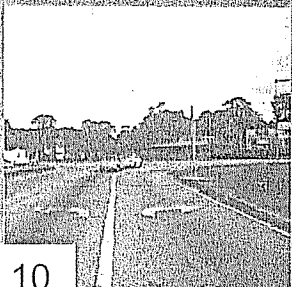
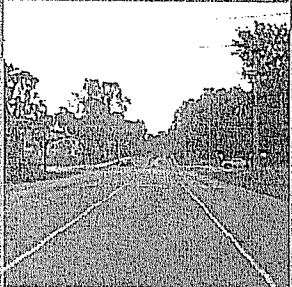
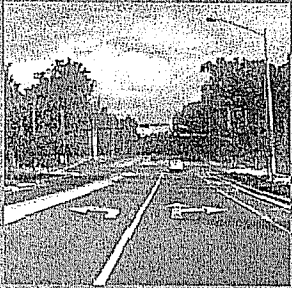


# Typical Section – Smart Bus Bay





## Purpose/Recommendation



- **Recommendation**

- Approve the 60% design plans as proposed and direct staff to proceed with the development of the 90% plans.

- **Interim Projects**

- Southwest 40<sup>th</sup> Boulevard at Archer Road
- Southwest 20<sup>th</sup> Boulevard at Southwest 43<sup>rd</sup> Street
- Smart Bus Bay

\* **MTPo presentation scheduled for December 2009**

**ALACHUA COUNTY  
PUBLIC WORKS DEPARTMENT**

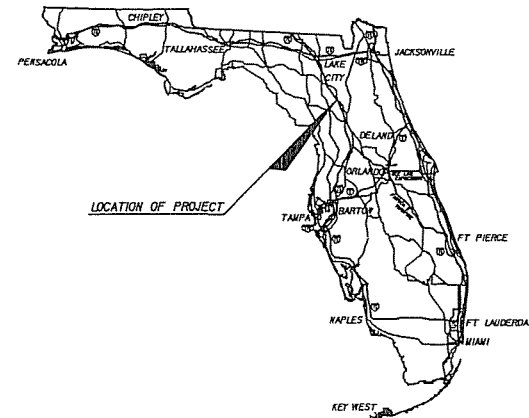
**CONTRACT PLANS**

FINANCIAL PROJECT ID 211365-0-03  
FEDERAL AID PROJECT NO. S124-002R  
ALACHUA COUNTY (51240)  
SMART BUS BAY ON  
SOUTHWEST 20TH AVENUE

**INDEX OF SIGNING AND  
PAVEMENT MARKING PLANS**

SHEET NO.	SHEET DESCRIPTION
S-1	KEY SHEET
S-2	TABULATION OF QUANTITIES
S-3	GENERAL NOTES
S-4	SIGNING AND PAVEMENT MARKING PLAN

**SIGNING AND PAVEMENT MARKING PLANS**



ROADWAY SHOP DRAWINGS  
TO BE SUBMITTED TO:

TERREL SHAW, P.E.  
HNTB CORPORATION  
7077 BONNEVAL ROAD  
SUITE 600, LIBERTY CENTER  
JACKSONVILLE, FL 32216  
PHONE NO. (904) 296-0207  
FAX NO. (904) 279-0260

PLANS PREPARED BY:

**HNTB**

HNTB CORPORATION  
7077 BONNEVAL ROAD  
SUITE 600, LIBERTY CENTER  
JACKSONVILLE, FL 32216  
PHONE NO. (904) 296-0207  
FAX NO. (904) 279-0260  
CERT. OF AUTH. NO. 6600

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

**PHASE II SUBMITTAL  
AUGUST 2009**

ROADWAY PLANS  
ENGINEER OF RECORD: TERREL SHAW, P.E.

P.E. NO. 50096

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

FISCAL YEAR	SHEET NO.
10	S-1

ALACHUA COUNTY PROJECT MANAGER: HA NGUYEN

EXHIBIT 2



### TABULATION OF QUANTITIES

[illegible]

NOTE: PAY ITEM NO. 710-90, PAINTED PAVEMENT MARKINGS, SHALL BE PLACED AS PER PLAN FOR TEMPORARY PAVEMENT MARKINGS. QUANTITIES ARE AS PER THE CORRESPONDING THERMOPLASTIC PAVEMENT MARKINGS.

REVISIONS				<div>ENGINEER OF RECORD: TERRELL SHAW, P.E. LIC. No. 50096</div> <div><b>HNTB</b></div> <div>7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 266-0207 FAX: 904 266-0000</div>	<div>ALACHUA COUNTY PUBLIC WORKS DEPARTMENT</div>			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						ALACHUA	21365-0-03	
					TABULATION OF QUANTITIES			5-2

### SIGNING AND PAVEMENT MARKING GENERAL NOTES

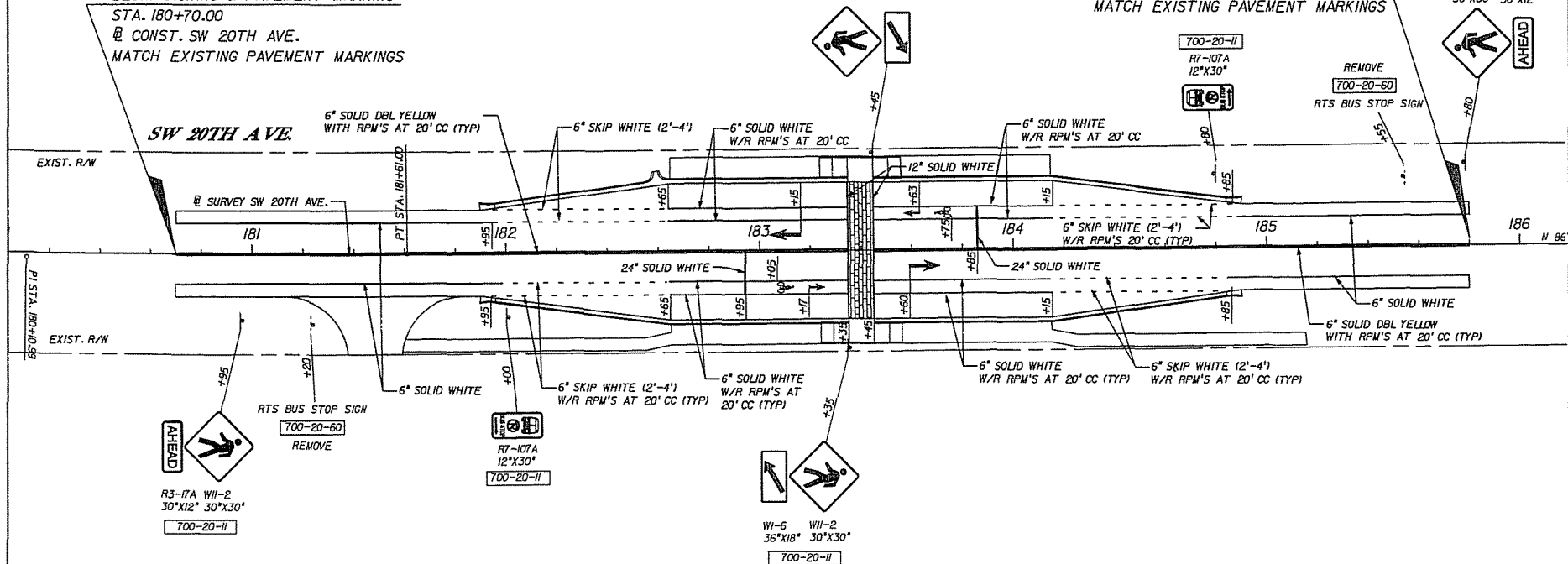
1. PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN IN THE TRAFFIC DESIGN STANDARDS. SIGNING AND PAVEMENT MARKING SHALL BE INSTALLED IN ACCORDANCE WITH THE 2003 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. ALL EXISTING ALACHUA COUNTY, CITY OF GAINESVILLE, OR RTA SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE REMOVED, STOCKPILED AND RELOCATED BY THE CONTRACTOR. SIGN REMOVAL SHALL BE DIRECTED BY THE PROJECT ENGINEER.
3. CAUTION SHALL BE EXERCISED WHILE RELOCATING EXISTING SIGNS TO PREVENT UNNECESSARY DAMAGE TO SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE PROJECT ENGINEER, SIGNS SHALL BE REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
4. EXISTING SIGNS SHALL REMAIN UNLESS OTHERWISE NOTED.
5. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE NOTED IN THE PLANS. THE QUANTITIES FOR PAINTED PAVEMENT MARKINGS, INDICATED IN THE TABLE OF QUANTITIES ON SHEET S-2, SHALL BE PLACED AS PER PLAN FOR TEMPORARY PAVEMENT MARKINGS. THE QUANTITIES FOR TEMPORARY PAVEMENT MARKINGS SHALL CORRESPOND TO THE THERMOPLASTIC PAVEMENT MARKINGS.
6. PAINTED PAVEMENT MARKINGS SHALL BE APPLIED BEFORE ROADWAY IS OPENED TO TRAFFIC. THERMOPLASTIC PAVEMENT MARKINGS TO BE APPLIED A MINIMUM OF 30 DAYS AFTER THE FINAL PAVEMENT MARKINGS HAVE BEEN CONSTRUCTED.
7. REFER TO F.D.O.T DESIGN STANDARDS INDEX No 17352 FOR RETRO-REFLECTIVE PAVEMENT MARKER PLACEMENT DETAILS.
8. THE SIGN LOCATIONS SHOWN ARE APPROXIMATE AND MAY REQUIRE FIELD ADJUSTMENT AS DIRECTED BY THE ENGINEER.
9. ALL ROUTE MARKER AUXILIARY PANELS SHALL MATCH THE COLOR COMBINATION OF THE RESPECTIVE MARKER WHICH THEY SUPPLEMENT.
10. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED DURING CONSTRUCTION OR RELOCATED SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION. COST OF THIS WORK SHALL BE AT CONTRACTOR'S EXPENSE.
11. THE CONTRACTOR SHALL MAINTAIN AND KEEP STREET NAME IDENTIFICATION SIGNS VISIBLE DURING CONSTRUCTION OPERATIONS IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
12. EXISTING SIGN PANELS AND/OR SIGN ASSEMBLIES TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF AT THE CONTRACTOR'S EXPENSE. REMOVED SIGNS SHALL BE STOCKPILED IN A SECURE LOCATION AWAY FROM TRAFFIC, AS DESIGNATED BY THE ENGINEER. ALL SIGN ASSEMBLIES SCHEDULED FOR REMOVAL SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR WITHIN 48 HOURS OF REMOVAL.
13. MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINING AND END OF PROJECT AND AT ALL SIDE STREETS.

REVISIONS				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. No. 50099 <b>HNTB</b> 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32218 PHONE: (904) 296-0207 CA NO. 1 6850	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			GENERAL NOTES	SHEET NO.  S-3
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						ALACHUA	211365-0-03		

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END PROJECT  
END SIGNING & PAVEMENT MARKING  
STA. 185+80.00  
CONST. SW 20TH AVE.  
MATCH EXISTING PAVEMENT MARKINGS



REVISIONS				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. No. 50099 <b>HNTB</b> 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 266-0207 CA NO.: 2555	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			SIGNING & PAVEMENT MARKING PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-4
						ALACHUA	211365-0-03		

**ALACHUA COUNTY  
PUBLIC WORKS DEPARTMENT**

**CONTRACT PLANS**

FINANCIAL PROJECT ID 211365-0-03  
FEDERAL AID PROJECT NO. S124-002R  
ALACHUA COUNTY (51240)  
SMART BUS BAY ON  
SOUTHWEST 20TH AVENUE

**SIGNALIZATION PLANS**

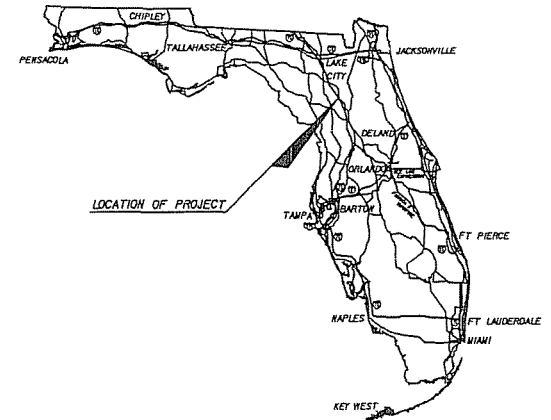
**INDEX OF SIGNALIZATION PLANS**

SHEET NO.	SHEET DESCRIPTION
T-1	KEY SHEET
T-2	TABULATION OF QUANTITIES
T-3	GENERAL NOTES
T-4	SIGNALIZATION PLAN
T-5 - T-6	COMMUNICATION PLANS
T-7	MAST ARM TABULATION
T-8	TABLE OF VARIABLES FOR MAST ARM ASSEMBLIES
T-9	TRAFFIC SIGNAL DETAILS
T-10	GUIDESIGN WORKSHEET

GOVERNING STANDARDS AND SPECIFICATIONS:  
FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED 2010,  
AND STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION DATED 2007,  
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: TBA  
For Design Standards modifications click on:  
<http://www.dot.state.fl.us/rdesign/>

REVISIONS



SIGNALIZATION SHOP DRAWINGS  
TO BE SUBMITTED TO:

STEVEN D. MIKESELL, P.E.  
HNTB CORPORATION  
7077 BONNEVAL ROAD  
SUITE 600, LIBERTY CENTER  
JACKSONVILLE, FL 32216  
PHONE NO. (904) 298-0207  
FAX NO. (904) 278-0280

PLANS PREPARED BY:

**HNTB**

HNTB CORPORATION  
7077 BONNEVAL ROAD  
SUITE 600, LIBERTY CENTER  
JACKSONVILLE, FL 32216  
PHONE NO. (904) 298-0207  
FAX NO. (904) 278-0280  
CERT. OF AUTH. NO. 8860

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

**PHASE II SUBMITTAL  
AUGUST 2009**

SIGNALIZATION PLANS  
ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E.

P.E. NO. 58703

FISCAL YEAR	SHEET NO.
10	T-1

## TABULATION OF QUANTITIES

[illegible]

AS

1

REVISIONS				ENGINEER OF RECORD: STEVEN D. D. MIKESELL, P.E. FL LIC. No. 58703 <b>HNTB</b> 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 266-0207 FAX: (904) 266-0207	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-2
						ALACHUA	211365-0-03		

# GENERAL NOTES:

1. THE CONTRACTOR SHALL NOTIFY THE CITY OF GAINESVILLE TRAFFIC OPERATION DEPARTMENT MR. TRAVIS LAW AT (352)334-2155, AT LEAST 24 HOURS IN ADVANCE OF SETUP OF VIDEO DETECTION ZONES SO HE MAY OBSERVE THEIR INSTALLATION IF HE SO DESIRES.
2. IT SHOULD BE NOTED NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING OR TRENCHING. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO EXAMINE THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS IN ACCORDANCE WITH SECTION 2-4 OF THE FOOT SPECIFICATIONS.
3. THE CONTRACTOR SHALL ADHERE TO ALL CITY AND COUNTY ORDINANCES AND STATE REGULATIONS DURING ALL CONSTRUCTION OPERATIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF EXISTING UTILITIES, BOTH HORIZONTAL AND VERTICAL PRIOR TO ANY BORES AT THE DIRECTION OF THE ENGINEER. THIS SHOULD BE PERFORMED BY VACUUM EXCAVATION OR COMPARABLE NON DESTRUCTIVE EQUIPMENT. ALL RIGHT-OF-WAY SHALL BE RESTORED TO THE CONDITION WHICH EXISTED PRIOR TO THE BORE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE COMPANY PROVIDING ELECTRICAL POWER TO DETERMINE IF A SERVICE PROCESSING FEE IS REQUIRED. IF REQUIRED, FEE SHALL BE INCLUDED AS PART OF PAYMENT FOR ELECTRICAL POWER SERVICE ASSEMBLY.
6. THE CONTRACTOR SHALL VERIFY THE COLOR CODES OF THE SIGNAL CABLE WITH THE CITY OF GAINESVILLE BEFORE ORDERING.
7. THE CONTRACTOR SHALL PROVIDE A TWO MAN BUCKET TRUCK AND ASSIST THE FOOT INSPECTOR IN PHYSICALLY EXAMINING EACH SIGNAL HEAD THE SAME DAY IT IS ERECTED.
8. AT THE TIME OF FINAL PROJECT INSPECTION, THE CONTRACTOR SHALL FURNISH THE INSPECTOR THREE COMPLETE SETS OF AS-BUILT PLANS.
9. CONCRETE AREAS DISTURBED BY THE INSTALLATION OF PULL BOXES, "A"-FRAMES, CONTROLLER CABINETS, SIGNAL POLES AND PEDESTRIAN POLES SHALL BE REPLACED. REPLACEMENT SHALL BE TO THE NEAREST EXPANSION JOINT.
10. NO POLYCARBONATE HOUSING OR MOUNTING HARDWARE WILL BE PERMITTED FOR VEHICULAR OR PEDESTRIAN SIGNAL HEAD ASSEMBLIES. ALL INDICATIONS FOR VEHICULAR AND PEDESTRIAN SIGNAL HEAD ASSEMBLIES SHALL BE LED.
11. ALL CONDUIT SHALL BE 2" MINIMUM UNLESS OTHERWISE SPECIFIED IN PLANS, EXCEPT ELECTRICAL POWER SERVICE DUCT.
12. PAYMENT FOR ELECTRICAL SERVICE WIRE NOT IN THE VERTICAL ASSEMBLY WILL BE PAID FOR PER LINEAR FOOT OF A SINGLE CONDUCTOR.
13. A MANUAL PUSH BUTTON CORD SHALL BE FURNISHED IN ALL CONTROLLER CABINETS.
14. DURING PRE-EMPTION, ALL DIRECTIONS SHALL BE RED WITH THE EXCEPTION OF THE APPROACH DIRECTION, WHICH SHALL BE GREEN.
15. UNLESS SPECIFIED OTHERWISE, ALL PULL BOX COVERS TO BE FURNISHED AND INSTALLED SHALL BE NON-METALLIC.
16. AS DIRECTED BY THE PROJECT ENGINEER, THE CONTRACTOR SHALL ADJUST CONDUIT & PULL BOXES HORIZONTALLY AND/OR VERTICALLY IN ORDER TO AVOID ANY POSSIBLE CONFLICTS WITH UNDERGROUND UTILITIES.
17. ALL FIELD WIRING SHALL BE NEATLY BUNDLED AND CLEARLY IDENTIFIED WITH PERMANENT, LEGIBLE, WEATHERPROOF TAGS THAT ARE SECURELY ATTACHED TO EACH CABLE. THE TAGGING SYSTEM PROPOSED SHALL BE SUBMITTED FOR APPROVAL WITH THE OTHER EQUIPMENT SUBMITTALS REQUIRED FOR THIS PROJECT.
18. ALL SIGNAL EQUIPMENT THAT IS REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A PLACE PROVIDED BY THE CONTRACTOR UNLESS OTHERWISE NOTED IN THE PLANS.
19. IF REQUIRED, THE CONTRACTOR SHALL PROVIDE THE NECESSARY EQUIPMENT FOR SUPPORTING EXISTING UTILITY AND/OR SIGNAL POLES DURING CONSTRUCTION OF NEW MAST ARMS AND MAST ARM FOUNDATIONS. THE CONTRACTOR SHALL COORDINATE THIS EFFORT WITH THE UTILITY COMPANIES AND/OR THE LOCAL MAINTAINING AGENCY. PAYMENT TO BE INCLUDED IN THE ASSOCIATED MAST ARM PAY ITEM NUMBER.
20. ALL PEDESTRIAN SIGNAL INDICATIONS SHALL BE COUNT-DOWN PEDESTRIAN SIGNAL INDICATIONS AND ALL PEDESTRIAN SIGNALS SHALL HAVE INTERNATIONAL SYMBOLS AND BE COUNTDOWN.
21. WHEN JACKING CONDUIT UNDER PAVEMENT THE CONTRACTOR MAY USE A FOOT APPROVED GUIDED BORING SYSTEM AS AN ALTERNATE METHOD OF CONSTRUCTION. AN ACCEPTABLE METHOD IS THE DITCH WITCH JET-TRAC OR EQUIVALENT.
22. WHEN THE CONTRACTOR IS REMOVING EXISTING TWISTED PAIR CABLE AND/OR RUNNING NEW FIBER OPTIC CABLE THE CONTRACTOR SHALL TAKE EVERY PRECAUTION SO NOT TO DAMAGE ANY EXISTING FIBER OPTIC CABLE STILL IN SERVICE. DAMAGED FIBER OPTIC CABLE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
23. AN EXCAVATION EXCEEDING 18 INCHES SHALL BE DONE BY HAND WITHIN 5 FEET OF ANY FIELD LOCATED UNDERGROUND UTILITY.
24. WHEN A CONTRACTOR IS WORKING ON SIGNAL WORK IN AN INTERSECTION (INSTALLING CONDUIT IN THE STREET, REMOVING EXISTING SIGNAL EQUIPMENT, INSTALLING NEW SIGNAL EQUIPMENT AND RUNS AND TURNING ON OF NEW SIGNALS) WHERE A LANE IS TO BE CLOSED, AN OFF-DUTY LAW ENFORCEMENT OFFICER SHALL DIRECT TRAFFIC. THE HOURLY RATE OF PAY FOR AN OFF-DUTY LAW ENFORCEMENT OFFICER CAN BE OBTAINED FROM THE OFFICE OF THE LAW ENFORCEMENT OFFICER. THIS COST SHALL BE INCLUDED IN PAY ITEM 102-11(MOT).
25. MAINTAINENCE OF TRAFFIC SHALL CONFORM TO FOOT DESIGN STANDARDS.
26. THE CONTRACTOR SHALL NOTIFY THE SUNSHINE STATE ONE CALL AT 1-800-432-0770 AND THE APPROPRIATE UTILITY COMPANIES LISTED IN THE TABLE BELOW AT LEAST 2 FULL BUSINESS DAYS IN ADVANCE OF POLE CONSTRUCTION OPERATIONS, WHERE CONFLICT WITH UNDERGROUND UTILITIES OR OVERHEAD ELECTRICAL CONDUCTORS IS EXPECTED AND IN ALL CASES WHERE JOINT USE POLES ARE CALLED FOR.

CLAY ELECTRIC	STEVE LAW	352-337-8115
COX COMMUNICATIONS	GARY HARRELL	352-337-2852
GRU WASTEWATER WATER	JASON SPARKS	352-393-1642
GRU ELECTRIC	WALLY SEALEY	352-334-3400 EXT 6056
GRU GAS	MIKE BROWN	352-393-1466
AT&T	EVERETT SPARKS	352-331-9147

# SPECIAL NOTES:

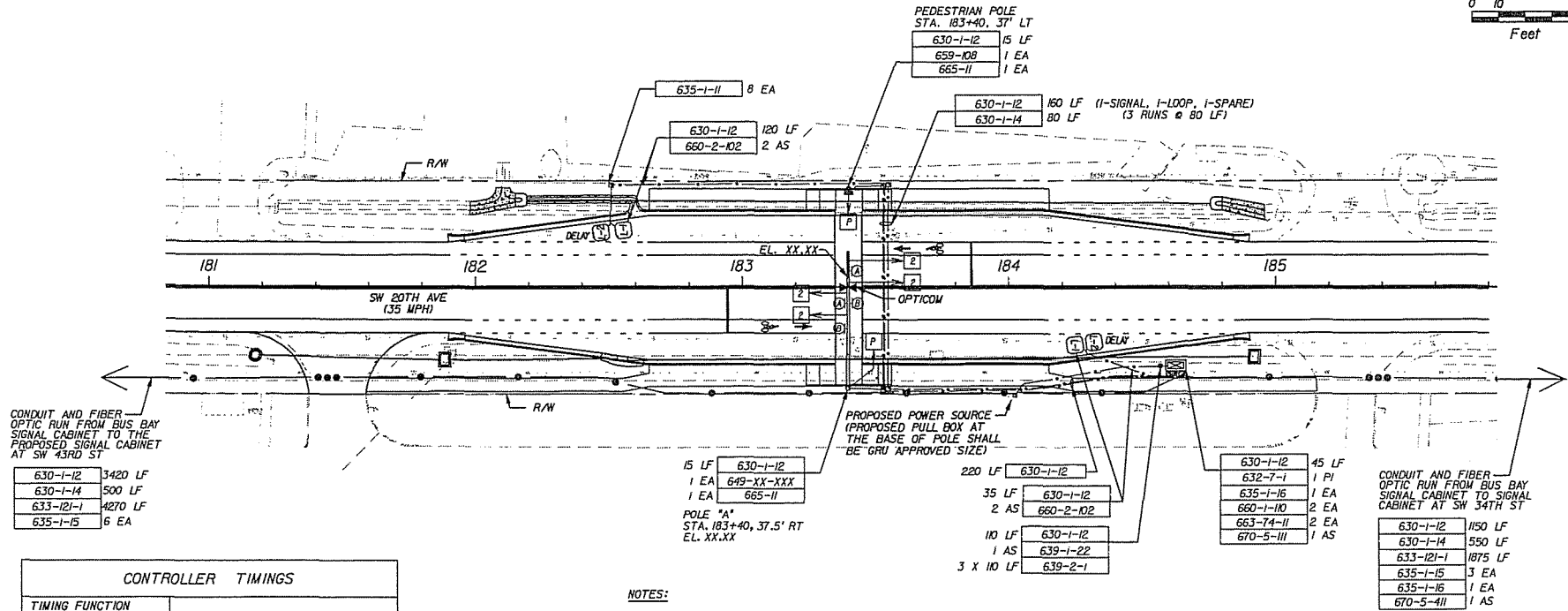
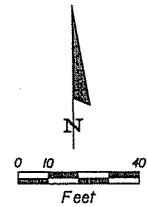
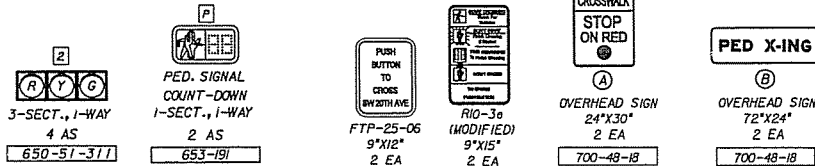
1. THE COST OF FURNISHING AND INSTALLING THE FTP-25-06 AND R10-3a (INTERNATIONAL) SIGNS SHALL BE INCLUDED IN PAY ITEM 665-II.
2. SIGNAL PEDESTAL AND SIGNAL POLE STATIONING AND OFFSETS MAY REQUIRE MINOR ADJUSTMENTS IN THE FIELD TO ENSURE HORIZONTAL CLEARANCE FROM FACE OF CURB TO CLOSEST SURFACE OF POLE AND WITHIN ROADWAY RIGHT-OF-WAY AND TO MAINTAIN A 4.0' MINIMUM SIDEWALK WIDTH. ANY RELOCATED POLES SHALL BE PLACED TO PROVIDE THE MAXIMUM SIDEWALK CLEARANCE POSSIBLE WITHIN ROADWAY RIGHT-OF-WAY.
3. CONTRACTOR TO HAND DIG THE FIRST 4.0' OF POLE FOUNDATIONS AND CONTACT THE APPROPRIATE UTILITY COMPANIES FOR LOCATES 2 FULL BUSINESS DAYS PRIOR TO ANY EXCAVATION.
4. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL MAST ARM AND ROADWAY ELEVATIONS PRIOR TO FABRICATING MAST ARMS.
5. THE CONTRACTOR IS TO PROVIDE THREE ADDITIONAL CONDUIT RUNS PULLED AND CAPPED FROM THE CONTROLLER TO THE NEAREST PULL BOXES.
6. ALL PEDESTRIAN PHASES TO BE PUSH BUTTON ACTUATED WITH SOLID STATE SWITCH, MOMENTARY LED AND TONE (EX. BULLDOG PUSH BUTTON).
7. THE CONTRACTOR SHALL CONTACT PHILIP MANN, (352) 334-5074, AT THE CITY OF GAINESVILLE TRAFFIC OPERATION DEPARTMENT TO OBTAIN A COLOR CHIP FOR THE PAINTING OF PEDESTRIAN POLES AND MAST ARM POLES. THE BRAND OF PAINT SHALL BE DETERMINED BY THE POLE MANUFACTURER. PAINT SHALL BE APPLIED PER SPECIFICATION 649 AND 563.
8. ANY REQUIRED FIELD TOUCH-UP OF PAINTED SURFACES SHALL BE IDENTIFIED BY THE FOOT ENGINEER. ALL PAINT APPLIED IN THE FIELD SHALL BE DONE WITH BRUSH, ROLLER OR GLOVE. NO SPRAY PAINTING SHALL BE ALLOWED.
9. INTERCONNECT/FIBER OPTIC CABLE AND SIGNAL CABLE ARE TO BE PLACED IN SEPARATE CONDUITS AND PULL BOXES.
10. FIBER OPTIC CABLE SHALL BE MINIMUM 24 SINGLE MODE LOOSE TUBE, DRY BLOCK, DIELECTRIC HYBRID PE CABLE AND WILL INCLUDE A 14 AWG, SINGLE CONDUCTOR WIRE PULLED IN THE SAME CONDUIT AS THE FIBER OPTIC CABLE FOR LOCATING.
11. FINAL SIGNAL POLE PLACEMENT SHALL BE A MINIMUM OF 6' FROM ALL OVERHEAD UTILITIES.
12. SIGNAL HEADS SHALL BE LOCATED AS SHOWN IN THE PLANS. A MINIMUM OF 8' HORIZONTAL SEPARATION BETWEEN SIGNAL HEADS SHALL BE MAINTAINED FOR EACH MOVEMENT.
13. ALL ASTRO BRACKETS SHALL ARTICULATE AND HAVE BUILT INTO THE HOUSING A 12" (MINIMUM) CONDUCTOR TERMINAL STRIP, PELCO MODEL #AB012 OR APPROVED EQUIVALENT.
14. THE CONTRACTOR SHALL VERIFY STREET NAME SIGN MESSAGES PRIOR TO FABRICATION. BLOCK NUMBERS AND/OR ARROWS MAY BE REQUIRED.
15. MAXIMUM SIGNAL TIMINGS, PRE-EMPTION TIMINGS AND SYSTEM TIMINGS ARE TO BE PROVIDED BY THE CITY OF GAINESVILLE. CONTACT PHILIP MANN AT THE CITY OF GAINESVILLE TRAFFIC OPERATION DEPARTMENT, (352) 334-5074, FOR THE REQUIRED INFORMATION.
16. IN ADDITION TO THE REQUIREMENTS SET FORTH IN THE FOOT SPECIFICATIONS, ELECTRICAL POWER SERVICE IS TO INCLUDE CONSTRUCTING WETER/DISCONNECT FRAME STAND PER DETAIL SHOWN ON THE TRAFFIC SIGNAL DETAILS SHEET. HEIGHT OF THE A-FRAME TO BE DETERMINED BASED UPON THE HEIGHT REQUIREMENTS FROM THE POWER COMPANY FOR THE DISCONNECT.
17. PAY ITEM NO. 639-I-22 SHALL INCLUDE PAYMENT FOR THE "A" FRAME DISCONNECT DETAILED IN THE PLANS.
18. WHERE MULTIPLE CONDUIT RUNS CROSS THE MAINLINE AND/OR SIDE STREET, THE FIRST RUN ACROSS EACH LEG SHALL BE PAID FOR UNDER PAY ITEM 630-I-14. EACH ADDITIONAL RUN SHALL BE PAID FOR UNDER PAY ITEM 630-I-12.
19. PAYMENT FOR POWER SERVICE PULL BOXES TO BE INCLUDED UNDER PAY ITEM NO. 635-I-11.
20. YELLOW FLASHING BEACONS AND RED FLASHING BEACONS WILL BE USED TO CONTROL TRAFFIC ON MAJOR AND MINOR ROADS DURING FLASHING OPERATION, RESPECTIVELY.
21. THE CONTRACTOR SHALL ADJUST, AS DIRECTED BY THE ENGINEER, THE LOCATIONS OF THE POLES, CONDUITS, PULL BOXES, ETC. TO AVOID ANY UTILITY CONFLICTS.
22. PAY ITEM NUMBER 670-5-II SHALL INCLUDE HAZTEC TYPE-VI CONTROLLER CABINET W/ETHERNET, HAZTEC TS-2 TYPE-I (INEMA) CONTROLLER, GENERATOR PLUG, CISCO INDUSTRIAL SWITCH AND LED WU.
23. PAY ITEM NO. 663-74-II SHALL INCLUDE AN URBAN AREA PREEMPTION SYSTEM. THIS SYSTEM SHALL BE FULLY COMPATIBLE WITH THE EXISTING CITY OF GAINESVILLE PREEMPTION SYSTEM (3M OPTICOM). ALL NECESSARY EQUIPMENT SHALL BE PAID FOR UNDER THIS BID ITEM NUMBER. NECESSARY EQUIPMENT SHALL INCLUDE BUT NOT BE LIMITED TO:
  - 3M OPTICOM PHASE SELECTOR MODEL T54 CHANNELS,
  - 3M OPTICOM MODEL T57 AUXILIARY DETECTOR/GREEN SENSE HARNESS,
  - 3M OPTICOM DETECTOR CABLE MODEL 130 (APPROXIMATELY 200 FEET PER RUN),
  - 3M OPTICOM DETECTOR MODELS 711, 721 OR 722 DEPENDING ON INTERSECTION LAYOUT.
 THE CONTRACTOR SHALL SEEK FINAL DETECTOR PLACEMENT APPROVAL FROM THE CITY OF GAINESVILLE TRAFFIC OPERATIONS SECTION BEFORE BIDDING AND INSTALLATION. CITY OF GAINESVILLE TRAFFIC OPERATIONS CAN BE CONTACTED AT (352) 334-2155.

REVISIONS				ENGINEER OF RECORD: STEVEN D. MIKEGELL, P.E. FL LIC. NO. 59703 <b>HNTB</b> 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 386-0267 CA NO.: 6550	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO.  T-3
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						ALACHUA	211365-0-03	

GENERAL NOTES

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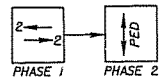
# SIGNAL HEAD DETAILS



## CONTROLLER TIMINGS

TIMING FUNCTION								
MOVEMENT NUMBER	1	2	3	4	5	6	7	P
MINIMUM GREEN	-	15	-	-	-	-	-	0
EXTENSION	-	3.5	-	-	-	-	-	-
MAXIMUM GREEN 1	-	50	-	-	-	-	-	-
MAXIMUM GREEN 2	-	50	-	-	-	-	-	-
YELLOW CLEARANCE	-	4.0	-	-	-	-	-	-
ALL RED	-	1.0	-	-	-	-	-	-
PEDESTRIAN WALK	-	-	-	-	-	-	-	7
PED. CLEARANCE	-	-	-	-	-	-	-	16
DETECTOR FUNCTION	-	LOCK	-	-	-	-	-	NL
RECALL	-	MIN	-	-	-	-	-	-

## SOP - 1 (MODIFIED)



## NOTES:

1. THE MAJOR STREET IS SW 20TH AVENUE (MOVEMENTS 2). THE SPEED LIMIT ON SW 20TH AVENUE IS 35 MPH.
2. NO LANE CLOSURES ON FOOTBALL FRIDAYS, WEEKDAY MORNINGS AND AFTERNOONS.
3. THE CONTRACTOR SHALL RUN FIBER OPTIC CABLE AND CONDUIT ALONG (SOUTH SIDE) BACK OF SIDEWALK OR IN THE UTILITY STRIP ON SW 20TH AVENUE FROM SW 43RD STREET SIGNAL CABINET TO SW 34TH STREET SIGNAL CABINET.
4. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING THE PROPOSED FIBER OPTIC CABLE SIGNAL INTERCONNECT UNDER THE DIRECTION OF THE PROJECT ENGINEER. THE PROPOSED LOCATION OF THE FIBER OPTIC CABLE SIGNAL INTERCONNECT SHOWN ON THESE PLANS IS PRELIMINARY. ESTIMATED QUANTITIES ARE PROVIDED BASED ON THE PRELIMINARY INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COORDINATION AND THE FINAL DESIGN/PLACEMENT OF THE FIBER. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING AS-BUILT PLANS IN ACCORDANCE WITH THE COUNTY AND CITY OF GAINESVILLE REQUIREMENTS FOR THE SIGNAL INTERCONNECT.
5. THE QUANTITIES SHOWN FOR FIBER OPTIC CABLE INCLUDES 25 LF OF SLACK IN EACH INTERMEDIATE FIBER OPTIC PULL BOX AND 50 LF OF SLACK IN THE SPECIAL PULL BOX NEAR THE CABINETS.
6. THE PEDESTRIAN PHASE SHALL BE ACTIVATED WHEN THE BUS BAY DETECTION IS CALLED FOR. THE DELAY FOR THE BUS BAY DETECTION SHALL BE SET AT 20 SECONDS.

## REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD:  
STEVEN D. MIKESELL P.E.  
FL LIC. No. 68703  
**HNTB**  
7077 BONEVAL ROAD, SUITE 600  
LIBERTY CENTER  
JACKSONVILLE, FLORIDA 32216  
PHONE: (904) 396-0367  
CA NO. 1-6500

## STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

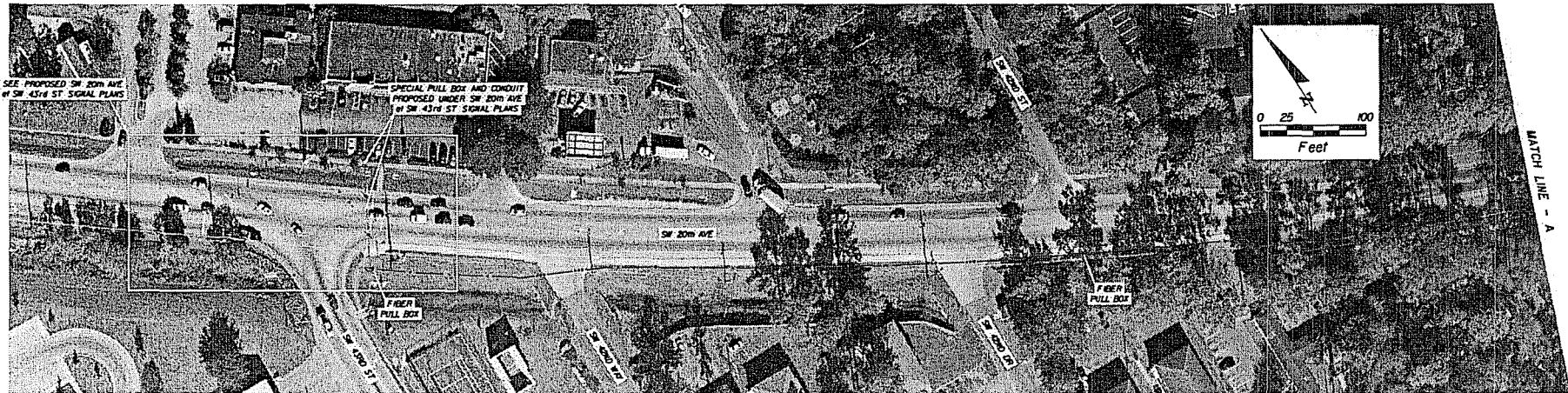
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
	ALACHUA	211365-0-03

## SIGNALIZATION PLAN

SHEET NO.

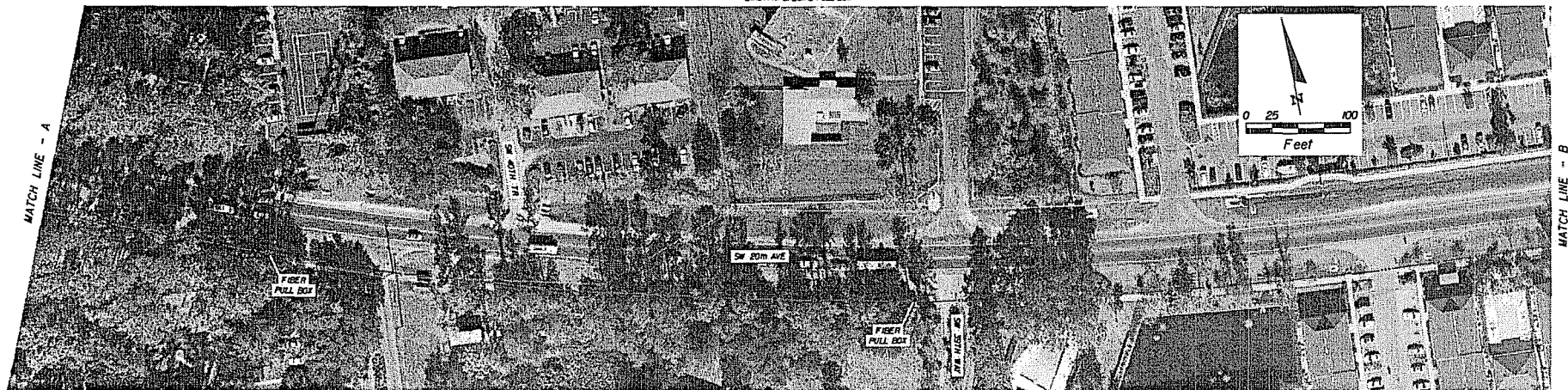
T-4





LEGEND:

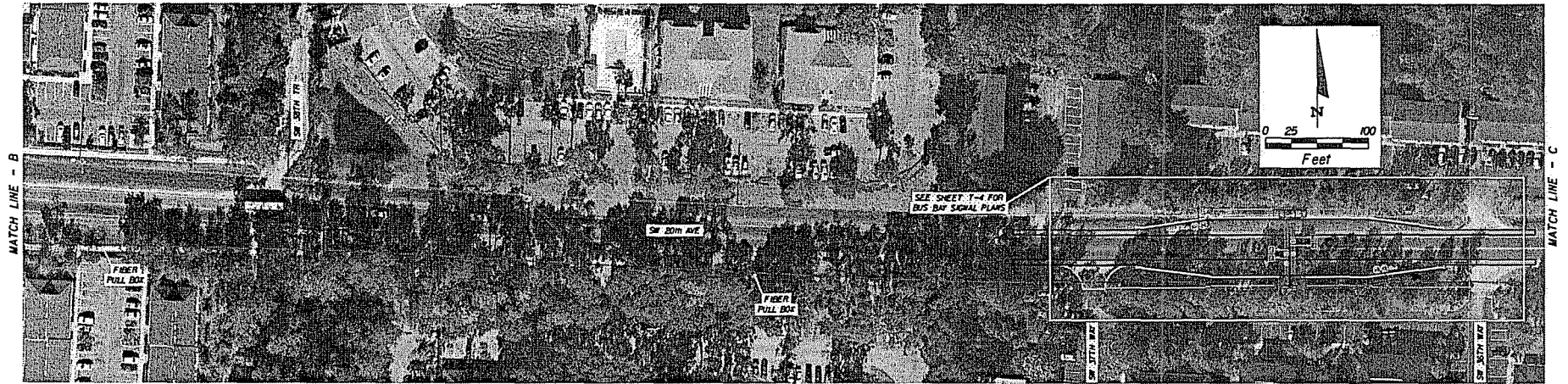
- PROPOSED CONDUIT-JACKED
- PROPOSED CONDUIT-UNDERGROUND
- EXISTING CONDUIT
- FIBER OPTIC PULL BOX
- EXISTING SPECIAL PULL BOX



NOTE: ALL COMMUNICATION QUANTITIES ARE INCLUDED IN SHEET T-4. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING THE PROPOSED FIBER OPTIC CABLE SIGNAL INTERCONNECT UNDER THE DIRECTION OF THE PROJECT ENGINEER. THE PROPOSED LOCATION OF THE FIBER OPTIC CABLE SIGNAL INTERCONNECT SHOWN ON THESE PLANS IS PRELIMINARY. ESTIMATED QUANTITIES ARE PROVIDED BASED ON THE PRELIMINARY INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COORDINATION AND THE FINAL DESIGN/PLACEMENT OF THE FIBER. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING AS-BUILT PLANS IN ACCORDANCE WITH THE COUNTY AND CITY OF GAINESVILLE REQUIREMENTS FOR THE SIGNAL INTERCONNECT.

REVISIONS				ENGINEER OF RECORD STEVEN D. MIKESSELL, P.E. FL LIC. NO. 58703 <b>HNTB</b> 7677 BONNEVAL ROAD, SUITE 600 LORETTA CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 396-0297 FAX: (904) 396-0298	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		COMMUNICATION PLAN	SHEET NO.  T-5
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY		
						ALACHUA		
						211365-0-03		

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LEGEND:

- PROPOSED CONDUIT-JACKETED
- PROPOSED CONDUIT-UNDERGROUND
- FIBER OPTIC PULL BOX
- SPECIAL PULL BOX

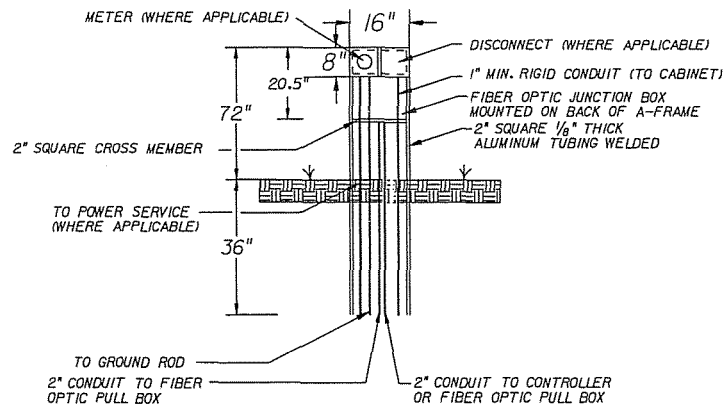


NOTE: ALL COMMUNICATION QUANTITIES ARE INCLUDED IN SHEET T-4. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING THE PROPOSED FIBER OPTIC CABLE SIGNAL INTERCONNECT UNDER THE DIRECTION OF THE PROJECT ENGINEER. THE PROPOSED LOCATION OF THE FIBER OPTIC CABLE SIGNAL INTERCONNECT SHOWN ON THESE PLANS IS PRELIMINARY. ESTIMATED QUANTITIES ARE PROVIDED BASED ON THE PRELIMINARY INFORMATION. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY COORDINATION AND THE FINAL DESIGN/PLACEMENT OF THE FIBER. THE CONTRACTOR IS ALSO RESPONSIBLE FOR PROVIDING AS-BUILT PLANS IN ACCORDANCE WITH THE COUNTY AND CITY OF GAINESVILLE REQUIREMENTS FOR THE SIGNAL INTERCONNECT.

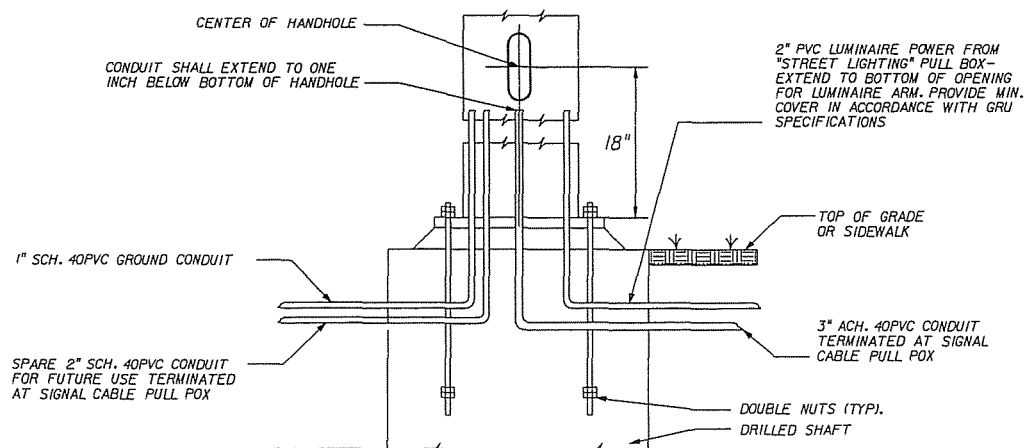
REVISIONS				ENGINEER OF RECORD: STEVEN D. MIKESSELL, P.E. FL LIC. No. 58703 <b>HNTB</b> 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 206-6207 SA NO. 1-0905	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		COMMUNICATION PLAN	SHEET NO.  T-6
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY		
						ALACHUA	211365-0-03	



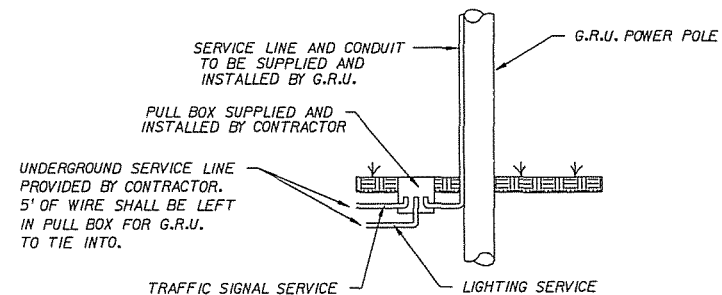




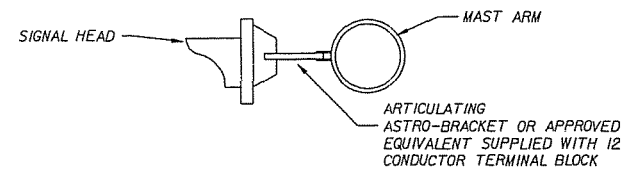
METER / DISCONNECT  
FRAME STAND DETAIL  
639-1-22  
N.T.S.



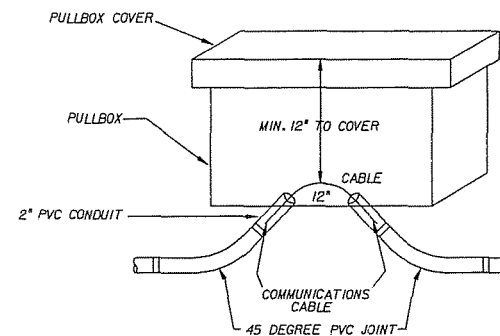
CANTILEVER SIGNAL STRUCTURE  
FOUNDATION AND BASE PLATE DETAIL  
NOTE: REINFORCEMENT AND WINGS NOT SHOWN  
N.T.S.



UNDERGROUND POWER  
SERVICE DETAIL  
N.T.S.



SIGNAL HEAD BRACKET  
ATTACHMENT DETAIL  
N.T.S.



COMMUNICATIONS CABLE  
CONDUIT INSTALLATION DETAIL

REVISIONS				ENGINEER OF RECORD: STEVEN D. MIKESSELL P.E. FL LIC. No. 68703 <b>HNTB</b> 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32218 PHONE: (904) 255-0207 CA NO. 1 6550	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TRAFFIC SIGNAL DETAILS	SHEET NO.  T-9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						ALACHUA	211365-0-03		

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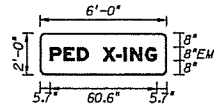
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SIGN NAME	B	STATION(S)			
QUANTITY	2	1	none		
WIDTH	6'-0"	2			
HEIGHT	2'-0"	3			
BORDER WIDTH	0.75"	4			
BORDER RADII	3"	5			
PANEL COLOR	Green				
LEGEND	White				
BORDER	White				
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	CLEARANCE EDGE OF LANE	COLUMN SIZE			AVERAGE LENGTH

[illegible]

SIGN NAME		STATION(S)			
QUANTITY		1			
WIDTH		2			
HEIGHT		3			
BORDER WIDTH		4			
BORDER RADII		5			
PANEL COLOR					
LEGEND					
BORDER					
SYMBOL(S)	ANGLE	X	Y	WID	HT
SIGN NUMBER	SIGN NAME ELEM. OF LANE	COLUMN SIZE		AVERAGE LENGTH	

[illegible]

OVERHEAD STREET NAME SIGN NOTES:

1. SIGN SIZES SHALL BE A MINIMUM OF 24"x72" TO A MAXIMUM OF 24"x96". THE SIZE OF THE SIGN SHALL BE INCREASED IN 6" INCREMENTS ONLY. CONTRACTOR SHALL NOT REDUCE LETTER SPACING UNLESS MESSAGE WILL NOT FIT ON PANEL. METAL SHALL BE MINIMUM 0.025 ALUMINUM.
2. SHEETING FOR OVERHEAD STREET NAME SIGNS SHALL BE TYPE III RETRO-REFLECTIVE FOR LEGENDS, BORDER AND BACKGROUND.
3. AVOID ABBREVIATION. IF ABSOLUTELY NECESSARY, USE THE FOLLOWING: BOULEVARD (BLVD), AVENUE (AVE), STREET (ST), TERRACE (TERR), PLACE (PL), DRIVE (DR), ROAD (RD), LAKE (LK).
4. PLACEMENT TO THE EXTENT POSSIBLE, PANELS WILL BE ATTACHED TO THE RIGHT OF THE OUTSIDE MOST SIGNAL HEAD MAINLINE ONLY (EXCEPT WHERE TWO STATE ROADS OR TWO MAJOR GENERATORS CROSS).
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFYING THE MESSAGES WITH THE LOCAL MAINTAINING AGENCY BEFORE FABRICATING THE SIGNS. SHOP DRAWINGS WILL BE REQUIRED.
6. OUTSIDE CORNERS OF SIGN FACE TO BE CUT CONCENTRIC WITH BORDER. BORDER TO BE MOUNTED PARALLEL TO EDGE OF SIGN.
7. SIGN PANEL INSTALLATION TO INCLUDE ALL ATTACHMENT HARDWARE REQUIRED FOR INSTALLING OVERHEAD STREET NAME SIGN ON NEW WAST ARMS INCLUDING WIND BEANS.

REVISIONS				ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E. FL LIC. No. 68703 <b>HNTB</b> 7677 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 266-0207 FAX: (904) 266-0300	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GUIDESIGN WORKSHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-10
						ALACHUA	211365-0-03		

# **SCHEDULED 2009 MTPO AND COMMITTEE MEETING DATES AND TIMES**

PLEASE NOTE: All of the dates and times shown in this table are subject to being changed during the year

<b>MTPO MEETING MONTH</b>	<b>DESIGN TEAM [At 1:30 p.m.]</b>	<b>B/PAB [At 7:00 p.m.]</b>	<b>TAC [At 2:00 p.m.] CAC [At 7:00 p.m.]</b>	<b>MTPO MEETING</b>
<b>JANUARY</b>	-	January 6	<i>CANCELLED</i>	<i>CANCELLED</i>
<b>FEBRUARY</b>	January 20	January 20	<i>CANCELLED</i>	February 17 at 6:00 p.m.
<b>MARCH</b>	<i>CANCELLED</i>	February 24	February 25	March 2 at 2:00 p.m.
<b>APRIL</b>	<i>CANCELLED</i>	March 31	CAC Orientation @ 6:30 pm April 1	April 20 at 6:00 p.m.
<b>MAY</b>	<i>CANCELLED</i>	April 28	<b>TAC Only</b> April 29	<i>CANCELLED</i>
<b>JUNE</b>	May 19	May 26	TAC @ NCFRPC May 27	June 8 at 6:00 p.m.
<b>JULY</b>	<i>CANCELLED</i>	June 30	<b>CAC Only</b> July 1	<i>CANCELLED</i>
<b>AUGUST</b>	<i>CANCELLED</i>	July 28	TAC @ NCFRPC July 29	August 10 at 3:00 p.m.
<b>SEPTEMBER</b>	<i>CANCELLED</i>	<i>CANCELLED</i>	<i>CANCELLED</i>	<i>CANCELLED</i>
<b>OCTOBER</b>	September 15	September 29	TAC Subcommittee Only September 30	<i>CANCELLED</i>
<b>NOVEMBER</b>	<i>CANCELLED</i>	October 27	TAC Subcommittee Only October 28	November 9 at 3:00 p.m.
<b>DECEMBER</b>	November 17	December 1	December 2	December 14 at 6:00 p.m.

Note, unless otherwise scheduled:

1. Shaded boxes indicate the months that we may be able to cancel MTPO meetings if agenda items do not require a meeting. Corresponding Advisory Committee meeting may also be cancelled;
2. Design Team meetings are conducted at the NCFRPC Charles F. Justice conference room;
3. TAC meetings are conducted at the Gainesville Regional Utilities (GRU) Administration general purpose meeting room;
4. CAC meetings are conducted in the Grace Knight conference room of the County Administration Building; and
5. MTPO meetings are conducted at the Jack Durrance Auditorium of the County Administration Building unless noted.



## WORKING DRAFT MTPO DESIGN TEAM STATUS REPORT

ASSIGNMENT	FIN Number	CONSTRUCTION STATUS YEAR (PE YEAR)	CURRENT STATUS	DESIGN REVIEW		
				SCOPE	30%	60%
CONSTRUCTION PROJECTS						
Archer Road/SW 16 <sup>th</sup> Avenue	-	2009/2010	Corridor/Intersection modifications.	08/09		
NE 19 <sup>th</sup> Street/NE 19 <sup>th</sup> Terrace	4204511	2008/2009	Reconstruction of road from NE 3 <sup>rd</sup> Avenue to NE 8 <sup>th</sup> Avenue. SAFETEA-LU Project.			
SW 62 <sup>nd</sup> Boulevard	2113653	(2007/2008)	PD&E of 4 corridor alignment alternatives SAFETEA-LU Interim Projects	10/08	05/09	11/09
ENHANCEMENT PROJECTS						
Archer Road / SR 24 Archer to I-75	2078374	2011/2012 (CST)	Bike Path/Trail-		-	
NW 34 <sup>th</sup> Street SR 222 to US 441	4262081	2008/2009	Sidewalk			
SW 8 <sup>th</sup> Avenue Tower Road to SW 67 <sup>th</sup> Terrace	2110911	2008/2009	Sidewalk			
Old Gainesville Depot	4046281	2001/2002	Local agency program (City) - waiting for project to develop		-	
W 6 <sup>th</sup> Street Rail-Trail	2113632	2011/2012	Bike path- Local agency program (City) - Phase 1	10/08	-	01/09
			Bike path- Local agency program (City) - Phase 2			
INTERSECTION / SAFETY / PROJECTS						
-	-	-	-	-	-	-

\*Shaded projects are the projects that are new to this list.



## MTPO DESIGN TEAM MEMBERSHIP

NAME	AGENCY
<b>PERMANENT MEMBERS</b>	
Ha Nguyen; R. Hedrick, M. Fay, & D. Cerlanek (Alts)	Alachua County Public Works Department
Kathy Fanning	Alachua County Department of Environmental
Jonathan Paul	Alachua County Department of Growth Management
Julia Reiskind; John Richter (Alt)	Bicycle/Pedestrian Advisory Board
Linda Dixon	University of Florida Facilities Planning & Construction
Gary Weed; Greg Sholar (Alt)	Citizens Advisory Committee
Meg Niederhofer	City of Gainesville Arborist
Vacant; Vacant (Alt)	City of Gainesville Beautification Board
Susan Bridges Niemann; Dean Mimms designee (Alt)	City of Gainesville Community Development
David Kvaltine	City of Gainesville Gainesville Regional Utilities
Emery Swearingen, Chair	City of Gainesville Public Works Department
Jesus Gomez; Doug Robinson (Alt)	City of Gainesville Regional Transit System
Karen Taulbee	Florida Department of Transportation
<b>PROJECT MEMBERS</b>	
Vacant (SR 26/26A Project Member)	Citizen Advocate
(appropriate FDOT project member)	Florida Department of Transportation
<b>SPECIAL MAILINGS (agendas only)</b>	
Anthony Lyons (Main Street)	City of Gainesville Community Redevelopment Agency
Cindy Robinson / Linda M <sup>c</sup> Gurn (Main Street)	Gainesville Downtown Owners & Tenants
Sharon Bachner (Main Street)	Matheson Society Inc. / Alachua County Historic Trust
Arnall Downs	-
Commissioner Byerly	-

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