

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING & PAVEMENT MARKING PLANS
SIGNALIZATION PLANS

A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
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6	GENERAL NOTES AND REFERENCE POINTS
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21	TRAFFIC CONTROL PLAN TYPICAL SECTIONS
22	TRAFFIC CONTROL PLAN ADVANCE SIGNING PLAN
23	TRAFFIC CONTROL PLAN PHASE I & PHASE II
24	EROSION CONTROL PLAN GENERAL NOTES
25	EROSION CONTROL PLAN
26	UTILITY ADJUSTMENT SHEET

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.

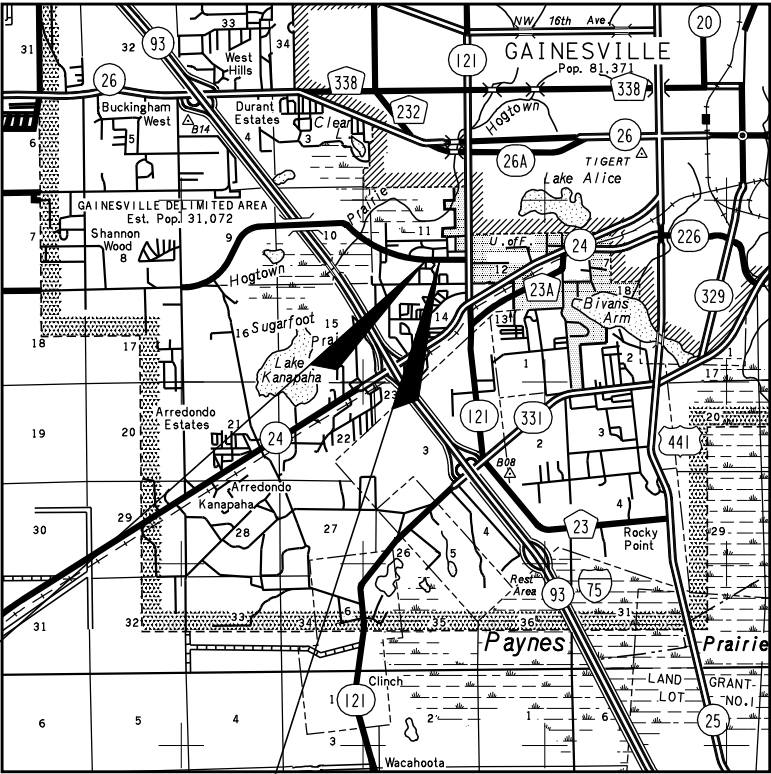
APPLICABLE DESIGN STANDARDS MODIFICATIONS: TBA
For Design Standards modifications click on:
<http://www.dot.state.fl.us/rddesign/>

REVISIONS

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



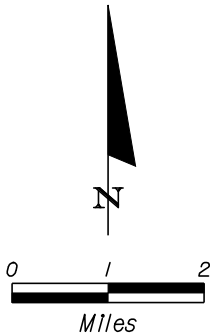
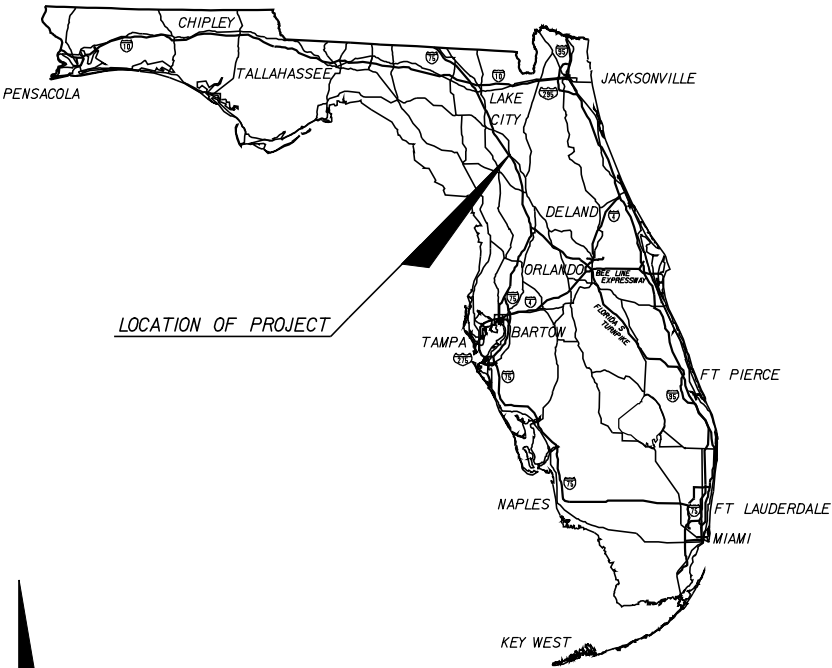
BEGIN PROJECT
STA. 180+70.00

END PROJECT
STA. 185+80.00

PROJECT LENGTH IS BASED ON \varnothing OF CONSTRUCTION

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	510.00	0.097
BRIDGES		
NET LENGTH OF PROJECT	510.00	0.097
EXCEPTIONS		
GROSS LENGTH OF PROJECT	510.00	0.097

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



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. 6500

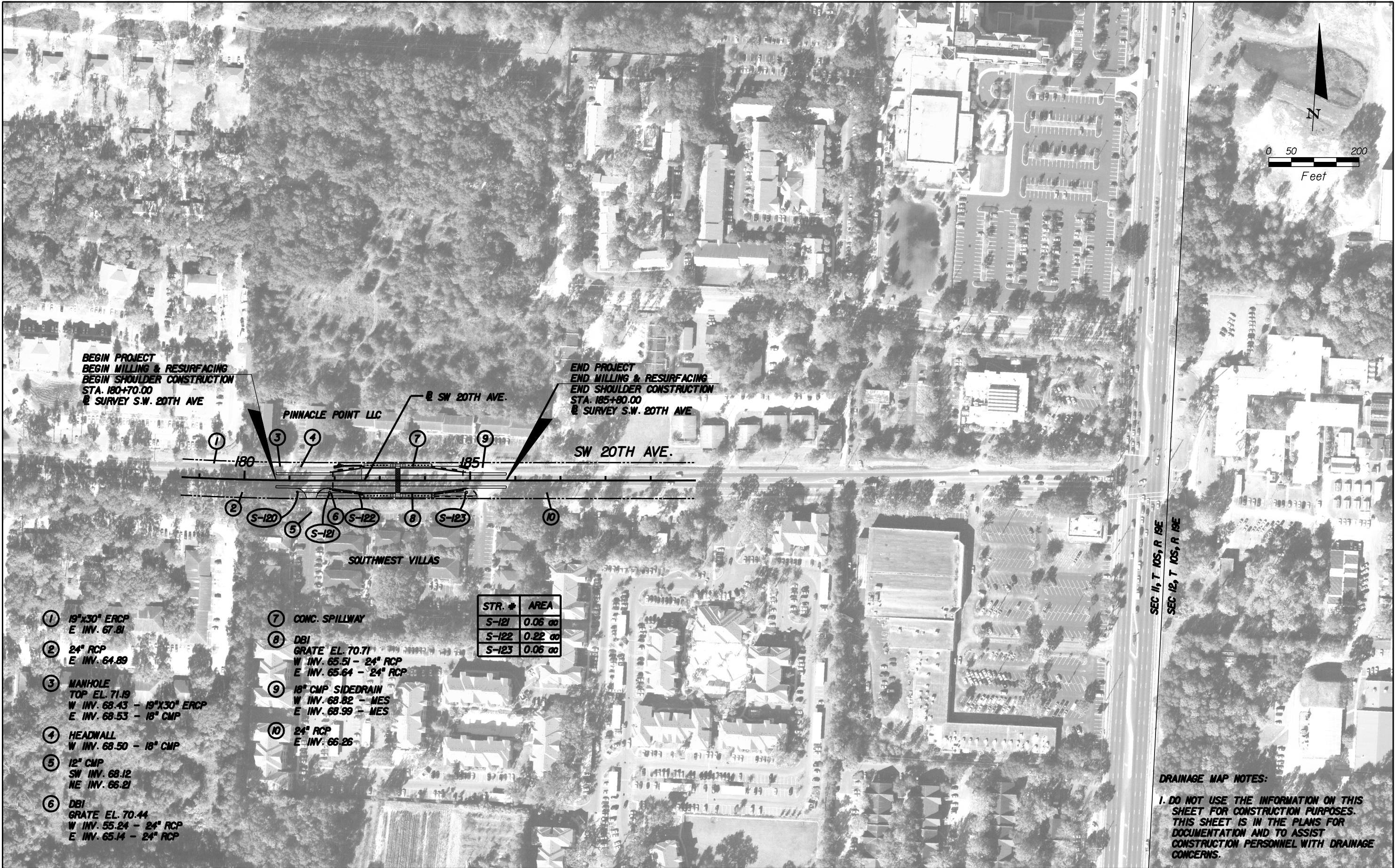
NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

PHASE II SUBMITTAL
AUGUST 2009

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

P.E. NO.: 50096

FISCAL YEAR	SHEET NO.
10	1



BEGIN PROJECT
BEGIN MILLING & RESURFACING
BEGIN SHOULDER CONSTRUCTION
STA. 180+70.00
@ SURVEY S.W. 20TH AVE

END PROJECT
END MILLING & RESURFACING
END SHOULDER CONSTRUCTION
STA. 185+80.00
@ SURVEY S.W. 20TH AVE

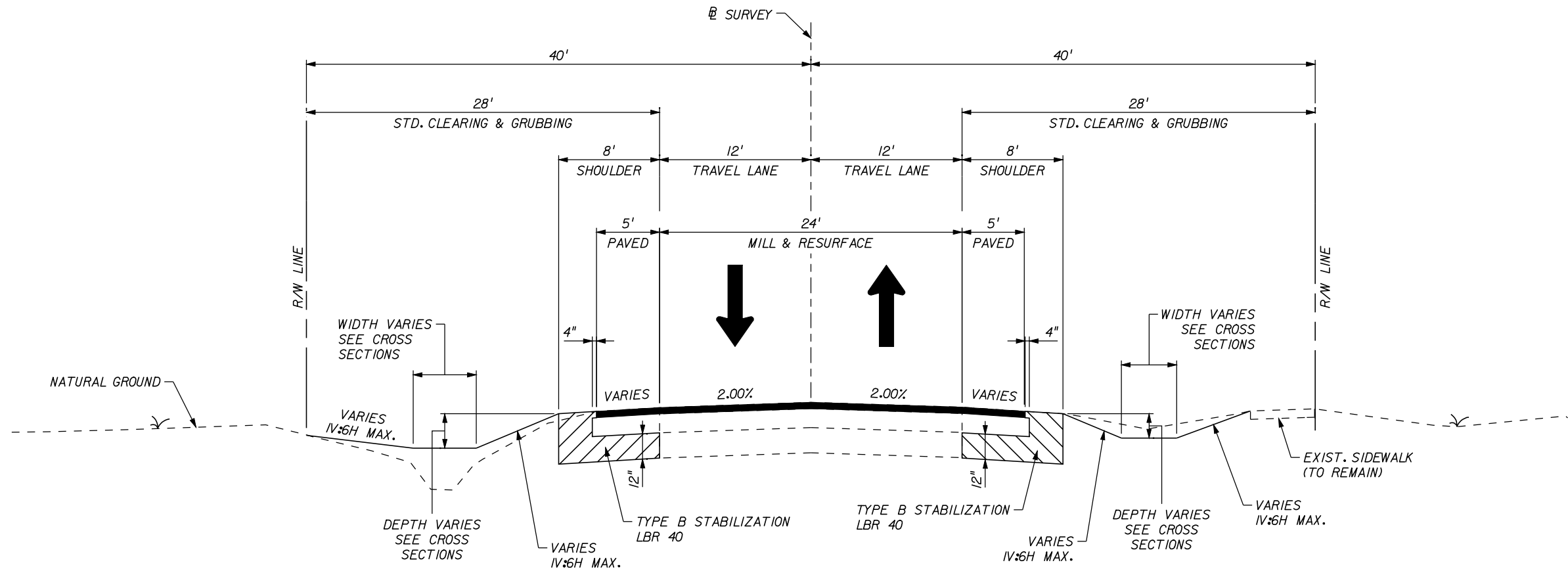
STR. #	AREA
S-121	0.06 00
S-122	0.22 00
S-123	0.06 00

- 1 18"x30" ERCP
E INV. 67.81
- 2 24" RCP
E INV. 64.89
- 3 MANHOLE
TOP EL. 71.19
W INV. 68.43 - 18"x30" ERCP
E INV. 68.53 - 18" CMP
- 4 HEADWALL
W INV. 68.50 - 18" CMP
- 5 12" CMP
SW INV. 68.12
NE INV. 66.21
- 6 DBI
GRATE EL. 70.44
W INV. 55.24 - 24" RCP
E INV. 65.14 - 24" RCP

- 7 CONC. SPILLWAY
- 8 DBI
GRATE EL. 70.71
W INV. 65.51 - 24" RCP
E INV. 65.64 - 24" RCP
- 9 18" CMP SIDEDRAIN
W INV. 68.82 - MES
E INV. 68.99 - MES
- 10 24" RCP
E INV. 66.26

DRAINAGE MAP NOTES:
1. DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DRAINAGE CONCERNS.

R E V I S I O N S				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. No. 50096 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 6500	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			DRAINAGE MAP	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		3
						ALACHUA	211365-0-03		



TYPICAL SECTION 1
SW 20TH AVENUE
STA. 180+70.00 TO STA. 181+90.00
STA. 184+90.00 TO STA. 185+80.00
DESIGN SPEED = 35 MPH

MILLING

MILL EXISTING ASPHALT PAVEMENT (1.50" AVG. DEPTH)

RESURFACING

FRICTION COURSE FC-12.5 (1.50")

SHOULDER PAVEMENT

OPTIONAL BASE GROUP 13
(BLACK BASE ONLY) (6.00") WITH
TYPE SP-12.5 STRUCTURAL COURSE (3.00")
AND FRICTION COURSE FC-12.5 (1.50")

TRAFFIC DATA

CURRENT YEAR = 2008 AADT = 26,700
ESTIMATED OPENING YEAR = 2010 AADT = 27,800
ESTIMATED DESIGN YEAR = 2035 AADT = 41,300
K = 9.5% D = 60% T = 2% (24 HOUR)
DESIGN HOUR T = 1%
DESIGN SPEED = 35 MPH

REVISIONS				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. No. 50096 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 6500	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			TYPICAL SECTION	SHEET NO. 4
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						ALACHUA	211365-0-03		

GENERAL NOTES

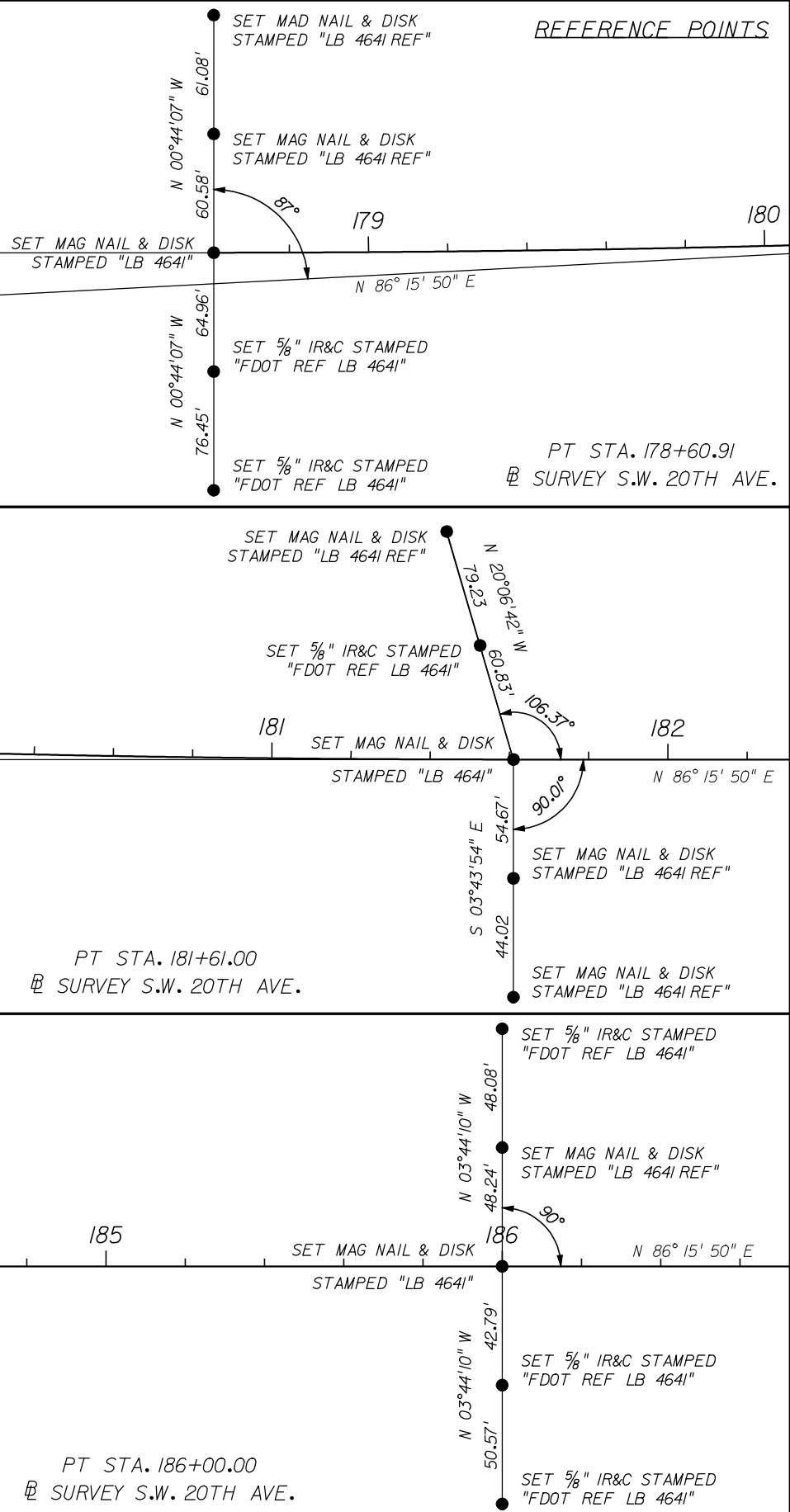
1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. ACCESS TO PRIVATE PROPERTY AND SIDE STREETS SHALL BE MAINTAINED AT ALL TIMES.
3. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
4. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THESE LOCATIONS.
5. ANY PUBLIC LAND CORNER OR BENCH MARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DISTURBED AND HAS NOT BEEN PROPERLY REFERENCED, THE ENGINEER SHOULD NOTIFY THE COUNTY SURVEYOR, WITHOUT DELAY, BY TELEPHONE AT (352) 374-5245.
6. EXISTING DRIVEWAYS WITHIN THE LIMITS OF THIS PROJECT ARE TO BE REPLACED AT THE SAME LOCATION, WIDTH, AND MATERIAL UNLESS OTHERWISE SHOWN IN THE PLANS.
7. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED VV, VH AND VWH) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHALL BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
8. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
9. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL OF FLORIDA, INC. (1-800-432-4770) AND UTILITY OWNERS LISTED BELOW 48 HOURS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE.

UTILITY OWNERS:

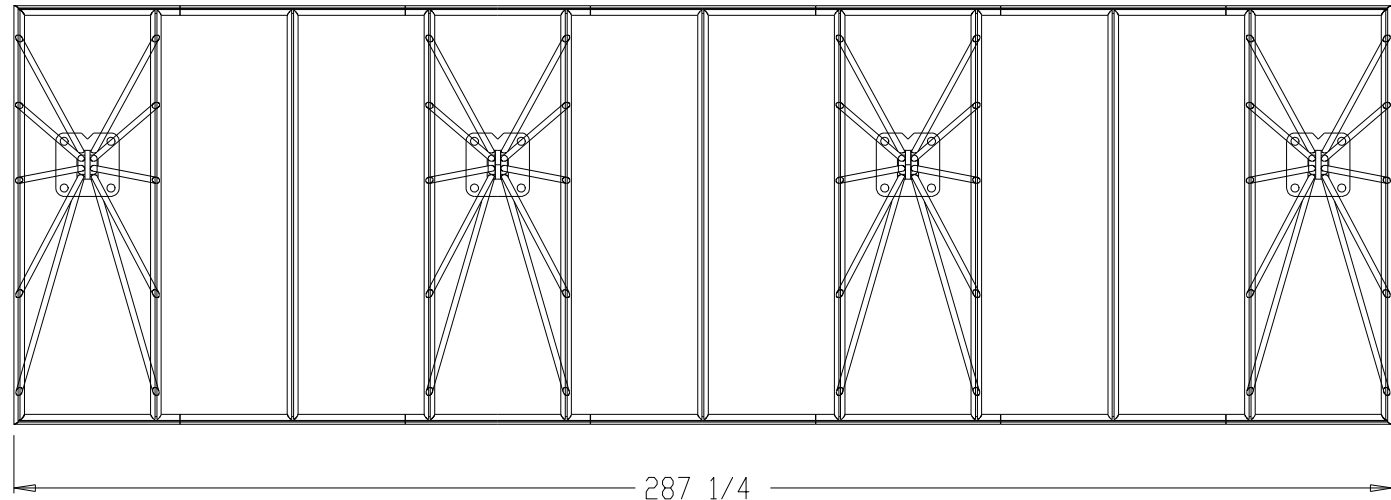
COMPANY	CONTACT	TELEPHONE
AT&T/BELLSOUTH (FLORIDA)	ANNALISA HORDEMAN	(352) 371-5276
AT&T/BELLSOUTH (LONG DISTANCE)	BOB WADLEY	(352) 331-9294
GRU WATER/WASTEWATER	DEBBIE DOCKERTY	(352) 393-1622
GRU ELECTRIC	TONY HOLSTEIN	(352) 334-6042
GRU COMMUNICATIONS	TOM LAWYER	(352) 393-6910
TRAFFIC OPERATIONS	TRAVIS LAW	(352) 393-8155
TRAFFIC OPERATIONS	CHRIS DOLAN	(352) 393-8155
COX COMMUNICATIONS	GARY HARRELL	(352) 337-2052

10. THE CONTRACTOR SHALL STOCKPILE TOPSOIL AND CONSTRUCTION MATERIALS IN SAFE AREAS ACCEPTABLE TO THE COUNTY ENGINEER. ALL UNSUITABLE SOIL MATERIAL WILL BE DISPOSED OF OFF-SITE IN A PERMITTED LOCATION.
11. ALL SALVAGEABLE AND RECYCLABLE MATERIAL SHALL REMAIN THE PROPERTY OF ALACHUA COUNTY UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL DELIVER THIS MATERIAL TO A SITE SPECIFIED BY THE COUNTY ENGINEER.
12. EROSION CONTROL ITEMS ARE INTENDED FOR PREVENTION, CONTROL, ABATEMENT OF EROSION, SEDIMENTATION AND WATER POLLUTION. THESE ITEMS ARE TO BE USED AT THE LOCATIONS DESCRIBED IN THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN OR AS DIRECTED BY THE PROJECT ENGINEER TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
13. ALL SEDIMENT BARRIER AND INLET PROTECTION SYSTEMS SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.
14. THE CONTRACTOR SHALL MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.

15. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES.
16. ALL SOD MATERIALS SHALL BE SUBJECT TO INSPECTION BY THE COUNTY PRIOR TO PLACEMENT. ANY SOD WITH NOXIOUS WEEDS AND GRASSES, INCLUDING TROPICAL SODA APPLE, SHALL BE REJECTED FOR USE ON THIS PROJECT. THE CONTRACTOR SHALL FURNISH TO THE ADMINISTRATOR, PRIOR TO INCORPORATION INTO THE PROJECT, A CERTIFICATION FROM THE FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES DIVISION OF PLANT INDUSTRY, STATING THAT THE SOD, HAY, STRAW AND MULCH MATERIALS ARE FREE FROM NOXIOUS WEEDS, INCLUDING TROPICAL SODA APPLE.
17. ALL AREAS OF SODDING SHALL BE COMMON BERMUDA.
18. MULCH MATERIAL SHALL CONSIST OF OAT, WHEAT AND/OR RYE STRAW.
19. ANY PORTION OF THE EXISTING RIGHT OF WAY THAT IS DISTURBED OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE REDRESSED AND SODDED AT THE CONTRACTOR'S EXPENSE.
20. ALL MATERIALS REMOVED FROM THE EXCAVATION SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR; NO MATERIAL IS TO BE WIND-ROWED ON THE PAVEMENT SHOULDERS.
21. EXTENSIONS OF EXISTING PIPE CULVERTS SHALL BE PERFORMED IN ACCORDANCE WITH INDEX 280.
22. THE CONTRACTOR SHALL FURNISH ALL FILL MATERIAL NECESSARY TO CONSTRUCT THE FINISHED GRADING TEMPLATE AS SHOWN IN THE PLANS INCLUDING AREAS FOR REWORKING OF SHOULDER DRIVEWAYS AND DRAINAGE STRUCTURES.
23. ANY LANE ARROWS OR PAVEMENT MESSAGES REMOVED BY THE CONTRACTORS OPERATIONS SHALL BE REPLACED AT THE END OF EACH DAY'S OPERATION.
24. ALL LANES SHALL BE OPEN FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENTS AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE PROJECT ENGINEER.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING TEMPORARY RPM'S DURING INTERMEDIATE LIFTS OF PAVEMENT IN ACCORDANCE WITH INDEX 600.



REVISIONS				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. No. 50096 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 6500	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			GENERAL NOTES AND REFERENCE POINTS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						ALACHUA	211365-0-03		6



SOLID CANOPY
PANELS

LOW VOLTAGE
HARDWIRED
LIGHTING
(6) PLACES

22 1/2
TYP.

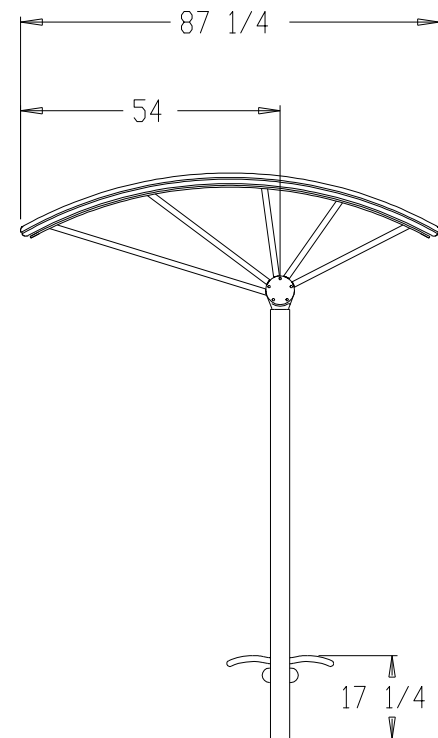
5 3/4

85 1/2

104 1/4

118

GRADE LINE



SEE KALEIDOSCOPE INSTALLATION GUIDE
FOR FOOTING RECOMMENDATIONS

l a n d s c a p e f o r m s . i n c .

431 LAWNDALE AVE. PHONE: 800-521-2546
KALAMAZOO, MI 49048 FAX: 269-381-3455

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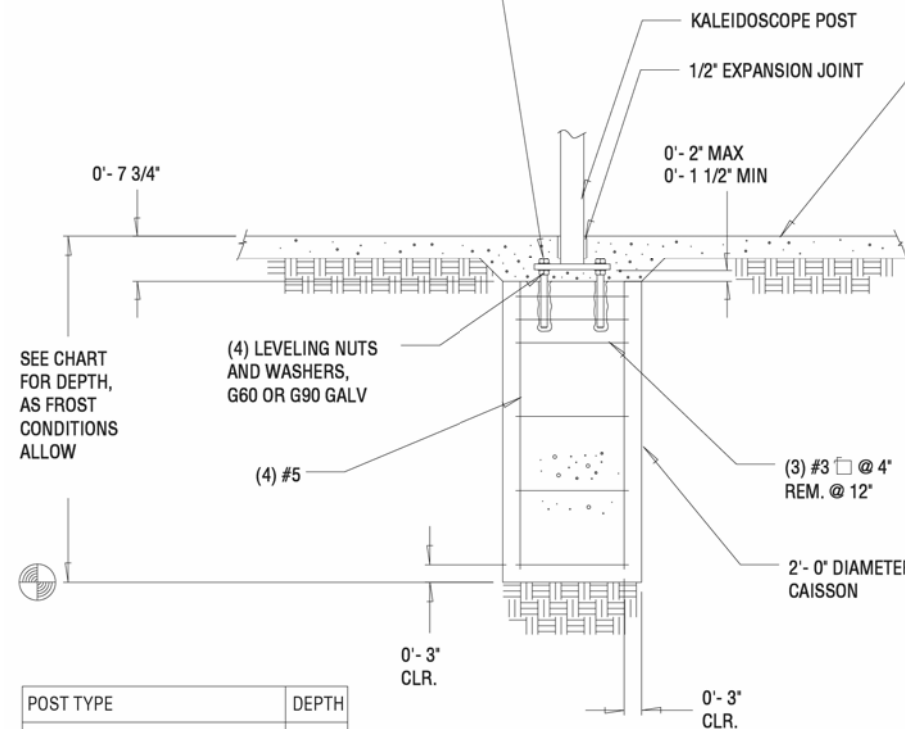
TITLE: KALEIDOSCOPE 4 POST OFFSET SOLID CANOPY & PRESIDIO BACKLESS SEATING LEFT & RIGHT BAYS ONLY, NO ARMS WITH LOW VOLTAGE LIGHTING
DESIGN: KALEIDOSCOPE
PATENT: D432,665; D420,812; D421,132; D429,000; D412,993; D413,314; D383,629
KA761-02
DATE: 01-12-07
AUTHOR: GLS

NOTE:
DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES.
THIS SHEET IS IN THE PLANS FOR ILLUSTRATION PURPOSES ONLY. FINAL
DESIGN OF THE TRANSIT SHELTERS SHALL BE PERFORMED BY THE CONTRACTOR.

REVISIONS				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. No. 50096 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 6500	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			SHEET NO. 8
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						ALACHUA	211365-0-03	

SPECIAL DETAILS

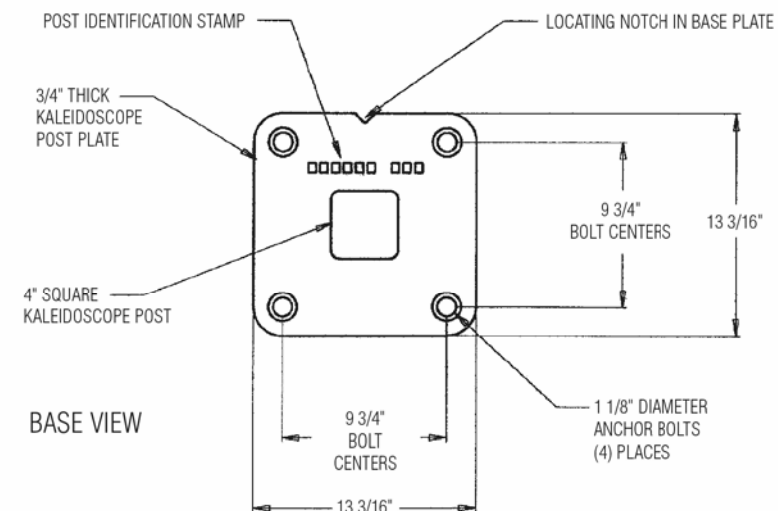
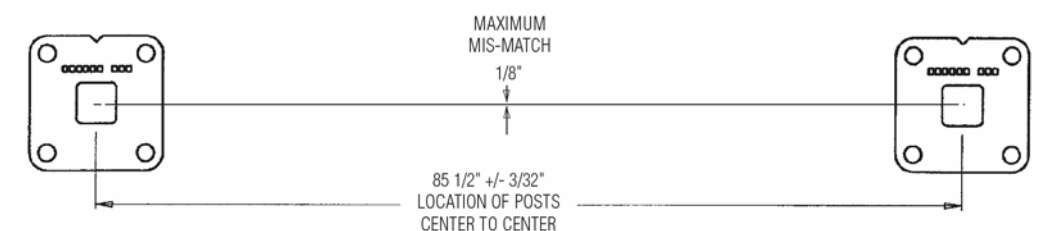
KALEIDOSCOPE POST PLATE W/ (4) 1 1/8" DIA.
A36 THREADED ROD X 1'-0" G60 OR G90 GALV
DRILL HOLE FOR ROD AND ADHERE
ROD TO CONCRETE WITH
"HILTI" HY-150 ADHESIVE SYSTEM



POST TYPE	DEPTH
1 HIGH WALL	36"
2 HIGH WALL	48"
3 HIGH WALL OR CANOPY WITH OR W/O WALL	60"

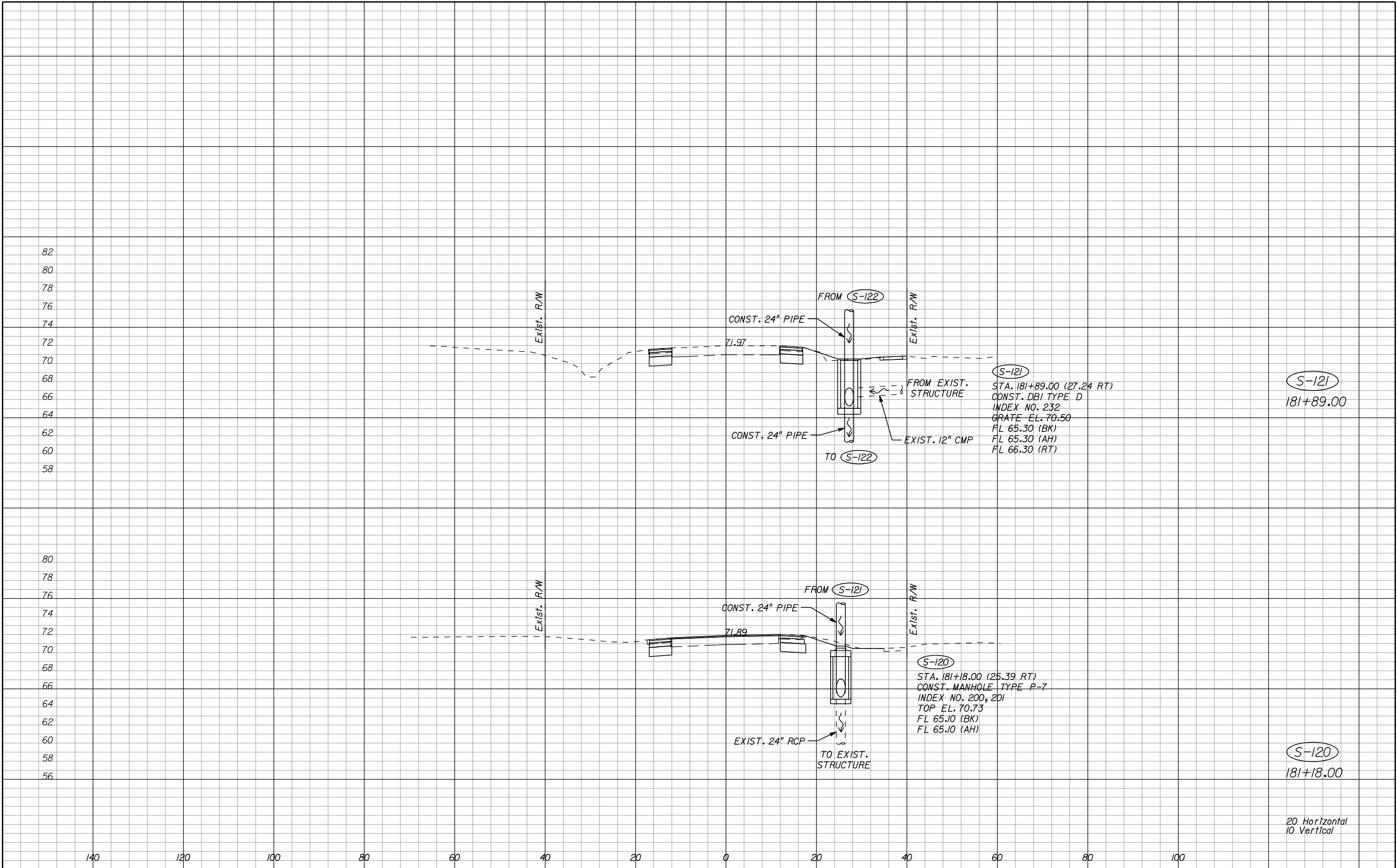
NOTES:
CONCRETE: $f'_c = 3000$ p.s.i.
REINF. STEEL: GRADE 60
MIN. SOIL BEARING CAPACITY: 1000 PSF
MIN. LATERAL SOIL BEARING CAPACITY: 150 PSF

ANY KALEIDOSCOPE SYSTEM THAT INCLUDES A CANOPY (WITH OR WITHOUT WALLS) OR ANY KALEIDOSCOPE WALL SYSTEM THAT IS THREE PANELS HIGH WITH SOLID OR PERFORATED PANELS SHALL NOT BE USED IN AREAS WHERE ANY OF THE PREVIOUS LOADS AND OR CONDITIONS ARE EXCEEDED.



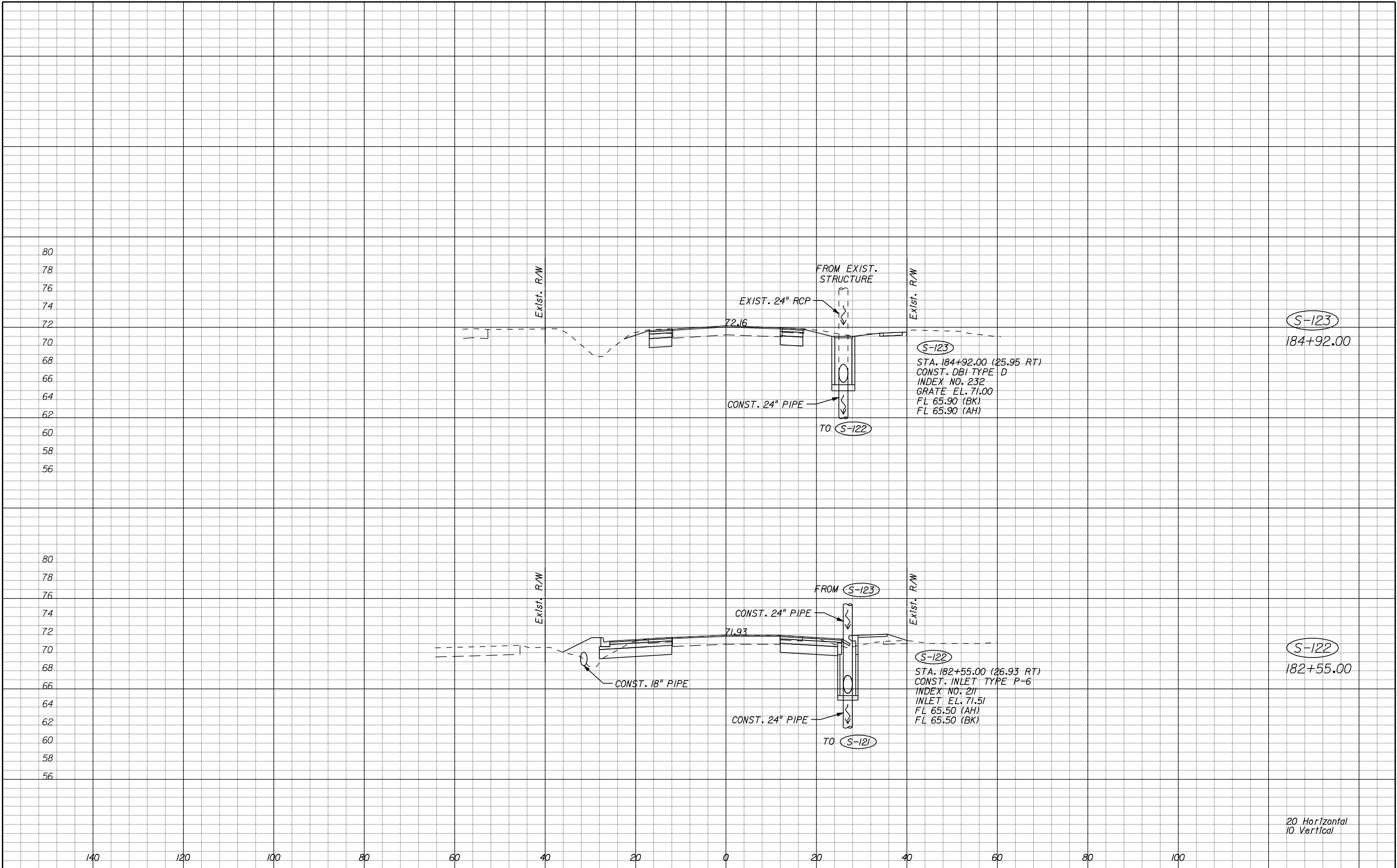
2. FOOTING FOUNDATIONS SHALL BE DESIGNED FOR WIND LOADS OF 110 MPH. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF FOOTING FOUNDATIONS FOR APPROVAL BY THE PROJECT ENGINEER.

REVISIONS				<div>ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. No. 50096 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 FAX: (904) 296-0200</div>	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			SHEET NO. 9
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						ALACHUA	211365-0-03	
SPECIAL DETAILS								



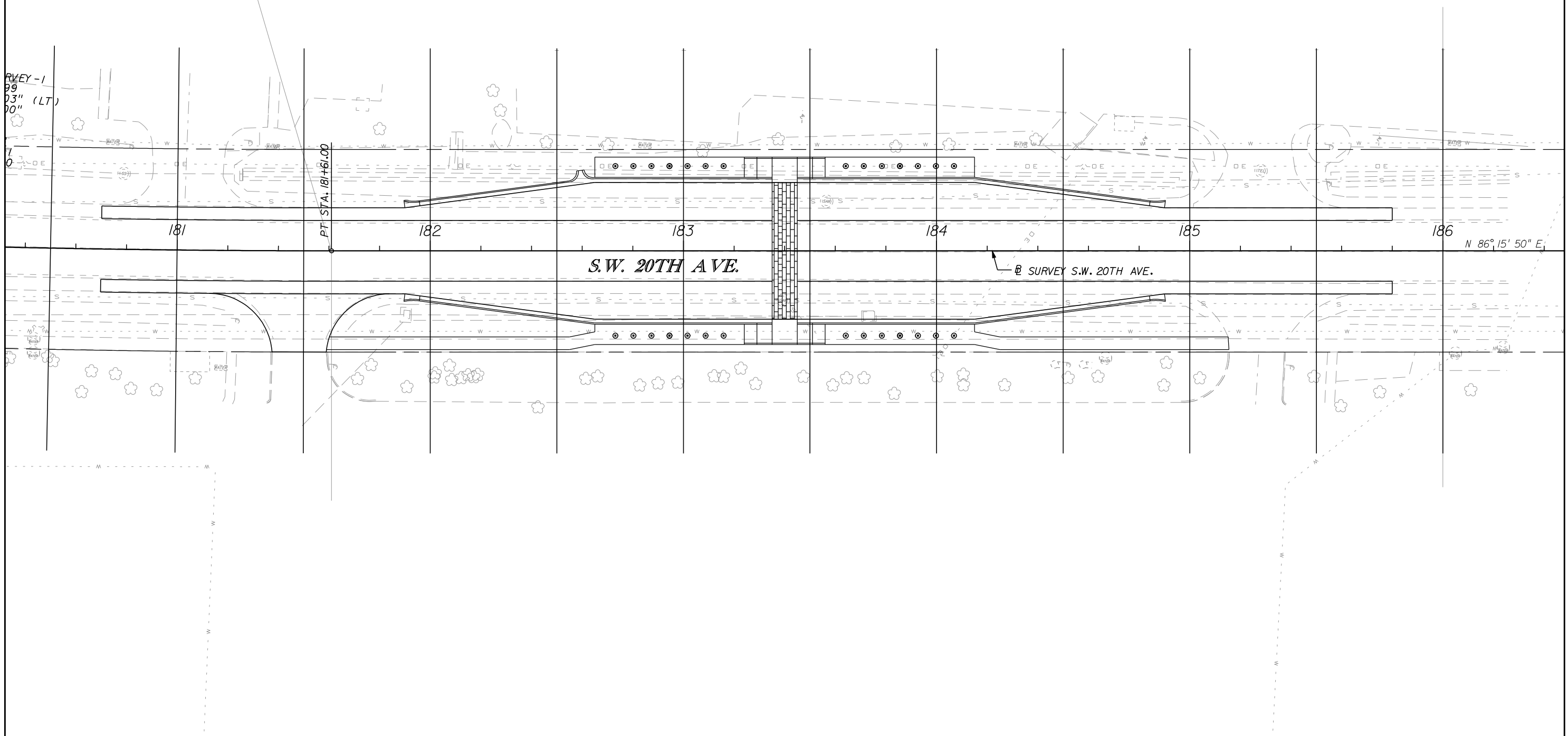
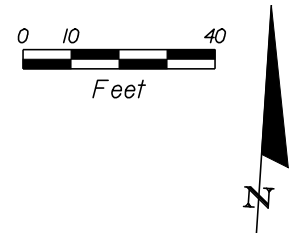
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						ALACHUA	211365-0-03	10

DRAINAGE STRUCTURES



REVISIONS				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. No. 50096 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 6500	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
						ALACHUA	211365-0-03	11

DRAINAGE STRUCTURES



REVISIONS				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. No. 50096 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 6500	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			CROSS SECTION PATTERN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						ALACHUA	211365-0-03		12

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

DATE OF SURVEY: MARCH 2009
SURVEY MADE BY: NODARSE & ASSOCIATES, INC.
SUBMITTED BY: FRANCISCO ALFARO, E.J. AND DAVID BARREIRO, P.E.

FINANCIAL PROJECT NO.: 211365-0-03

DISTRICT: -
ROAD NO.: -
COUNTY: ALACHUA

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA.: - SURVEY ENDS STA.: -

STRATUM NO.	LBR		ORGANIC CONTENT			SIEVE ANALYSIS RESULTS % PASS						ATTERBERG LIMITS (%)				MATERIAL DESCRIPTION	CORROSION TEST RESULTS				
	NO.OF TESTS	MAX LBR	NO.OF TESTS	% ORGANIC	MOISTURE CONTENT	NO.OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO.OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP		NO.OF TESTS	RESISTIVITY ohm-cm	CHLORIDES ppm	SULFATES ppm	pH
1	-	-	-	-	-	3	-	-	-	-	6-10	-	-	-	A-3	GRAY TO BROWN, LIGHT GRAY TO TAN MEDIUM FINE GRAINED SAND	-	-	-	-	-
2	-	-	-	-	-	2	-	-	-	-	12-14	1	NP	NP	A-2-4	GRAY, ORANGE, BROWN TO ORANGE SLIGHTLY CLAYEY MEDIUM TO FINE GRAINED SAND	-	-	-	-	-
3	-	-	-	-	-	9	-	-	-	-	20-36	9	31-39	6-14	A-2-4 A-2-6	GRAY, DARK GRAY CLAYEY MEDIUM TO FINE GRAINED SAND	-	-	-	-	-
4	-	-	-	-	-	3	-	-	-	-	44-94	3	27-56	6-22	A-6 A-7	BROWN, GRAY, LIGHT GREEN SANDY CLAY TO CLAY	-	-	-	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	LIGHT TAN WEAKLY CEMENTED LIMESTONE	-	-	-	-	-

EMBANKMENT AND SUBGRADE MATERIAL

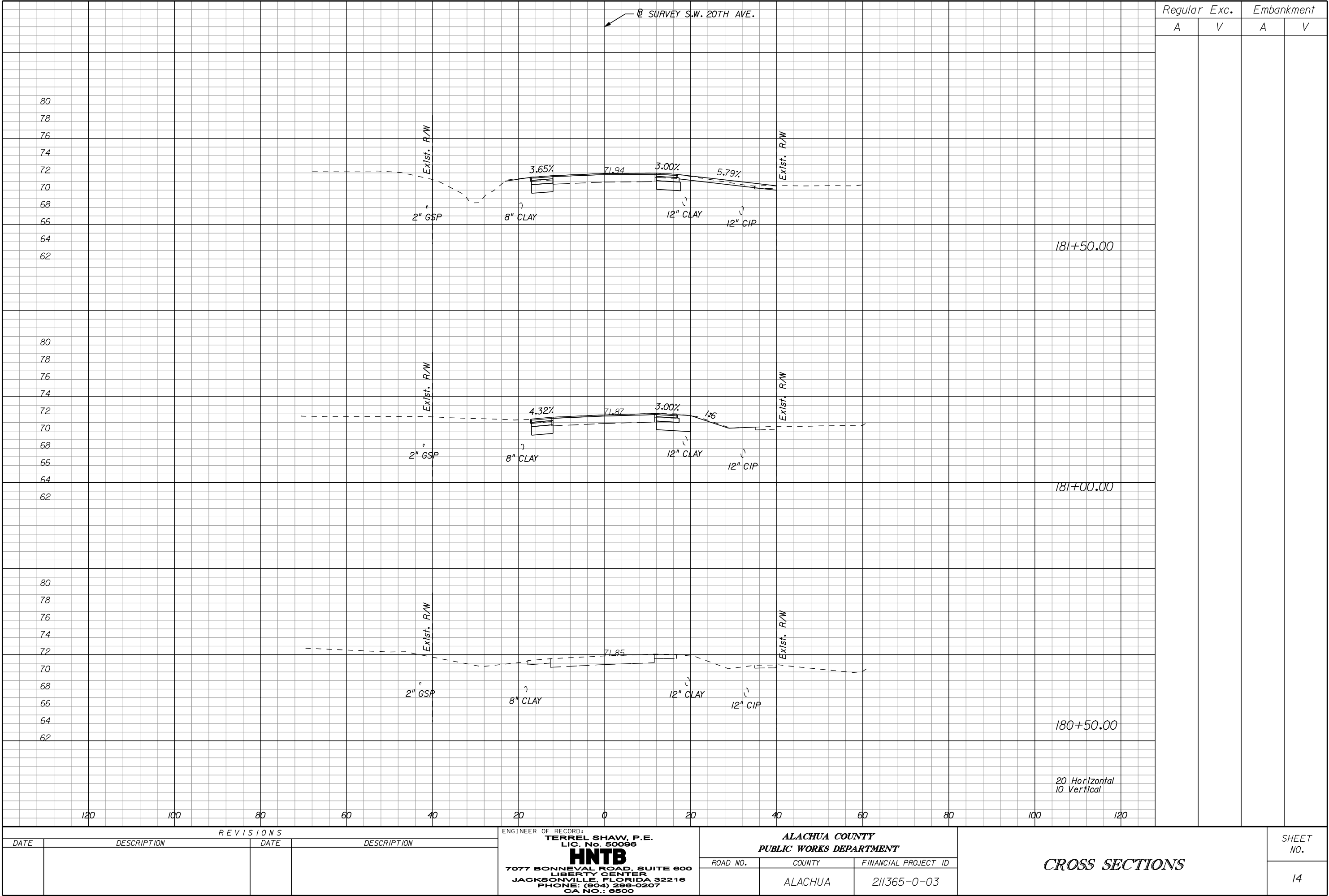
STRATA BOUNDARIES ARE APPROXIMATE MAKE FINAL CHECK AFTER GRADING

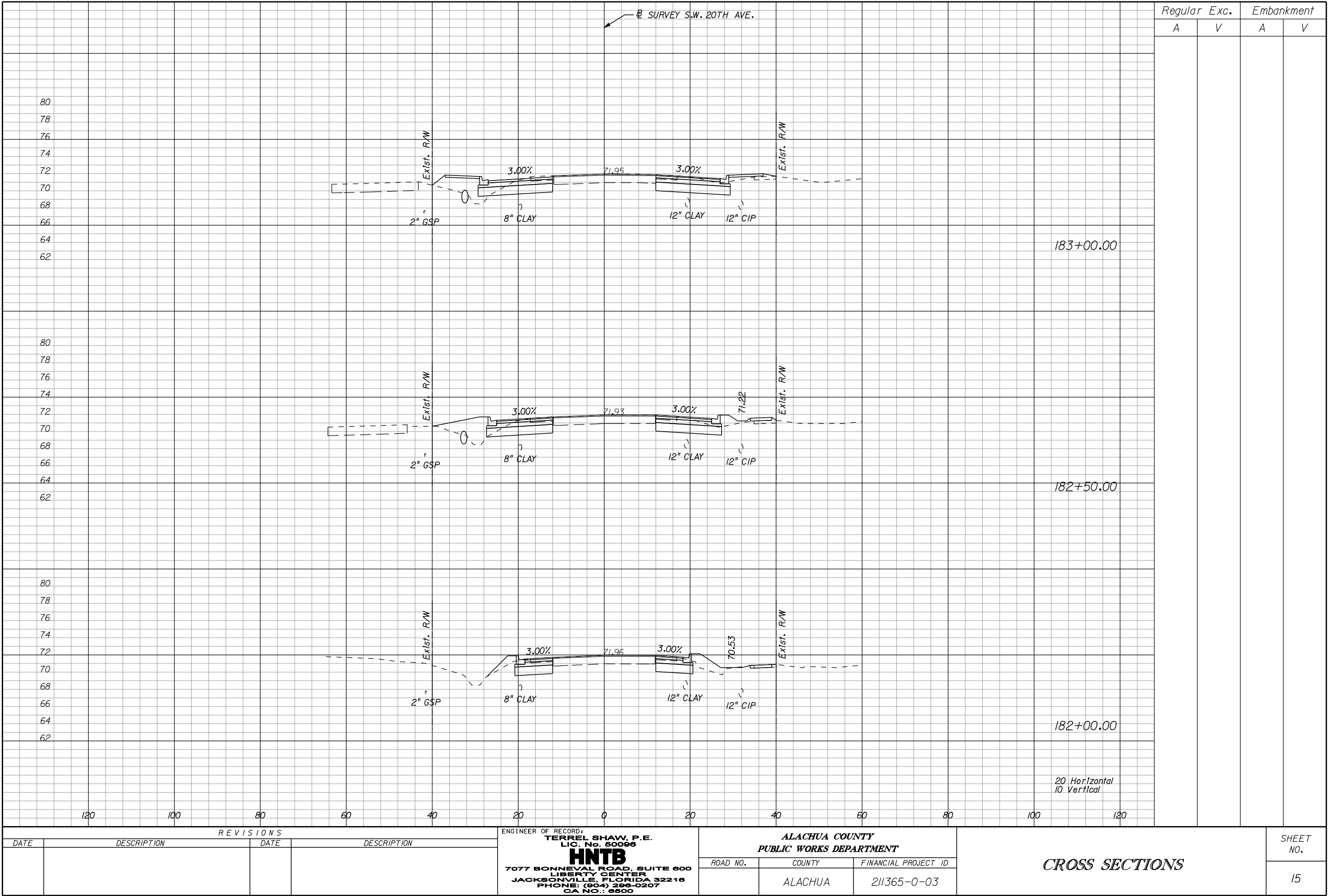
▼ = WATER TABLE ENCOUNTERED
⚡ = SEASONAL HIGH WATER TABLE
GNE = GROUNDWATER NOT ENCOUNTERED

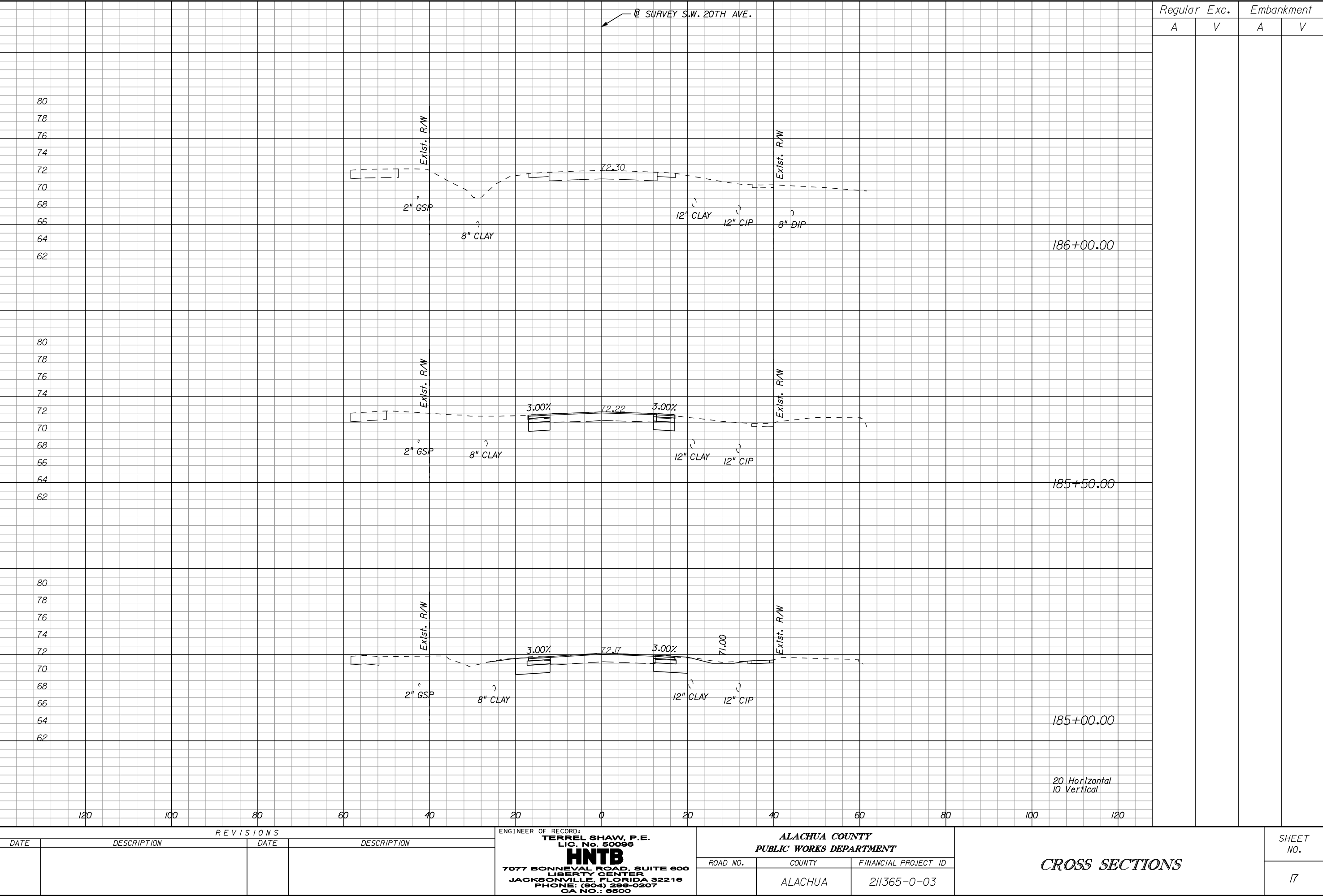
NOTES:

- 1) SOIL BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING LOCATION ONLY.
- 2) WATER TABLE SHOWN AS ▼ WHERE ENCOUNTERED AT TIME OF SURVEY. GROUNDWATER NOT ENCOUNTERED SHOWN AS "GNE".
- 3) SOIL ANALYSIS INCLUDES DATA FROM ROADWAY AREAS ONLY.
- 4) THE SYMBOL "-" REPRESENTS AN UNMEASURED PARAMETER.
- 5) THE SYMBOL "NP" REPRESENTS NON-PLASTIC.
- 6) THE MATERIAL FROM STRATUM NUMBER 1 APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX No. 505.
- 7) THE MATERIAL FROM STRATUM NUMBER 2 APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX 505. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND BE DIFFICULT TO DRY AND COMPACT.
- 8) A-2-6, A-6 AND A-7 MATERIAL SHALL BE REMOVED IN ACCORDANCE WITH INDEX No. 500.
- 9) PLASTIC MATERIAL MAY BE PLACED ABOVE THE EXISTING WATER LEVEL (AT THE TIME OF CONSTRUCTION).
- 10) TEMPORARY PERCHING OF THE GROUNDWATER IS ANTICIPATED AND WILL BE THE RESPONSIBILITY OF THE CONTRACTOR FOR STRATA 3 AND 4.
- 11) THE MATERIAL FROM STRATUM NUMBER 5 IS LIMEROCK/ROADBASE MATERIAL. IT MAY BE USED AS STABILIZED SUBGRADE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH INDEX No. 505. HOWEVER, THIS MATERIAL MAY NOT BE USED AS BASE MATERIAL.

R E V I S I O N S				 <div>DAVID BARREIRO, P.E. P.E. LICENSE NUMBER 31901 NODARSE AND ASSOCIATES, INC. 4110 SW34th STREET GAINESVILLE, FLORIDA 32608 CERTIFICATE OF AUTHORIZATION 6174</div> <div>NODARSE ASSOCIATES, INC.</div>	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			ROADWAY SOIL SURVEY	SHEET NO.
DATE	DESCRIPTION		DATE		DESCRIPTION		ROAD NO.		COUNTY
								ALACHUA	211365-0-03







REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD:
TERREL SHAW, P.E.
LIC. No. 50096
HNTB
7077 BONNEVAL ROAD, SUITE 600
LIBERTY CENTER
JACKSONVILLE, FLORIDA 32216
PHONE: (904) 296-0207
CA NO.: 6500

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

CROSS SECTIONS	

SHEET NO.
17

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE DESIGN STANDARDS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

I.O SITE DESCRIPTION

I.A. NATURE OF CONSTRUCTION ACTIVITY:

THIS PROJECT INCLUDES WIDENING ON SOUTHWEST 20TH AVENUE TO CONSTRUCT TRANSIT BAY LANES. THIS INVOLVES CONSTRUCTING ROADWAY SURFACE, CURB AND GUTTER, SIDEWALK AND UNDERGROUND STORM DRAIN SYSTEMS. THIS PROJECT WILL BE LOCATED NEAR 3640 SOUTHWEST 20TH AVENUE NEAR THE SOUTHWEST VILLAS AND PINNACLE POINT APARTMENTS.

I.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITY:

IN ACCORDANCE WITH SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS THE CONTRACTOR PROPOSES A DIFFERENT SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION OF THE PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

I. CLEARING AND GRUBBING, EARTHWORK AND STORM DRAIN CONSTRUCTION FOR THE ROADWAY.

I.C. AREA ESTIMATES:

TOTAL SITE AREA: 0.94 ACRES.
TOTAL AREA TO BE DISTURBED: 0.66 ACRES.

I.D. RUNOFF DATA

RUNOFF COEFFICIENTS:
BEFORE: 0.49
DURING: VARIES FROM 0.49 TO 0.60
AFTER: 0.60

SOILS DATA: THE RESULTS OF THE SOIL BORINGS ALONG THE ROADWAY ARE SHOWN IN THE ROADWAY SOIL SURVEY SHEET(S). THE NUMBERS FOR THESE ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS. IN GENERAL, THE SOILS ARE CLAYEY SAND.

OUTFALL INFORMATION:

THERE IS ONE OUTFALL.

#I DESCRIPTION: DITCH ALONG SOUTHWEST 20TH AVENUE TO HOGTOWN CREEK

LOCATION: LATITUDE: 29° 38' 11", LONGITUDE: 82° 23' 24"
ESTIMATED DRAINAGE AREA SIZE: 144.77 AC
RECEIVING WATER NAME: HOGTOWN CREEK

I.E. SITE MAP

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

* DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE MAPS. THE PROFILE SHEETS SHOW OVERLAND FLOW DIRECTION AT ROADWAY CENTERLINE. THE ARROWS ABOVE AND BELOW THE PROFILE REPRESENT THE FLOW DIRECTION AT THE LEFT AND RIGHT PROPERTY LINE, RESPECTIVELY. ARROWS POINTING TO THE PROFILE INDICATE RUNOFF COMING TO THE SITE. POINTING AWAY FROM THE SITE INDICATE RUNOFF LEAVING THE SITE.

* APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE CROSS SECTION SHEETS AND THE PLAN-PROFILE SHEETS.

* AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN-PROFILE SHEETS AND THE CROSS SECTION SHEETS.

* AREAS NOT TO BE DISTURBED: THE EXISTING ROADWAY AND SEVERAL EXISTING DRIVEWAY ARE NOT TO BE DISTURBED.

* LOCATIONS OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE EROSION CONTROL SHEETS. TABLES PROVIDING SUMMARIES OF TEMPORARY EROSION CONTROL ITEMS ARE PROVIDED IN THE SUMMARY OF QUANTITY SHEETS.

* LOCATIONS OF PERMANENT CONTROLS: N/A

* AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION SHEETS AND THE PLAN-PROFILE SHEETS.

* SURFACE WATERS: SURFACE WATERS ARE LOCATED IN THE DITCH ALONG SOUTHWEST 20TH AVENUE NEAR HOGTOWN CREEK.

* DISCHARGE POINTS TO SURFACE WATERS: REFER TO OUTFALL INFORMATION.

I.F. RECEIVING WATER:

SEE ITEM I.D. FOR THE OUTFALL LOCATIONS AND RECEIVING WATER NAMES.

2.O CONTROLS

2.A. EROSION AND SEDIMENT CONTROL:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TRAFFIC CONTROL PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TRAFFIC CONTROL PLAN (TCP) OUTLINED IN THESE CONSTRUCTION PLANS, THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SECTION 104 EROSION CONTROL PLAN, SUBJECT TO APPROVAL OF THE ENGINEER. THE CONTRACTOR WILL ALSO BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS AND SUPPLY CONTRACT TIME SCHEDULES FOR THE IMPLEMENTATION OF EACH SUBMITTAL.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

PHASE I OF TEMPORARY TRAFFIC CONTROL PLANS.

ROADWAY, STATION 180+70.00 TO STATION 185+80.00 LEFT: CONSTRUCT THE STORM DRAIN WORKING IN THE UPSTREAM DIRECTION ALONG THE NORTH SIDE OF THE PROJECT.

ROADWAY, STATION 180+70.00 TO STATION 185+80.00 RIGHT: CONSTRUCT THE STORM DRAIN WORKING IN THE UPSTREAM DIRECTION ALONG THE NORTH SIDE OF THE PROJECT.

2.A.1 STABILIZATION PRACTICES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

* ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104.

* TURF AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

PERMANENT:

* ASPHALT OR CONCRETE SURFACE.

* SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

* HIGH FILL WHEN EMBANKMENT IS TO BE PLACED TEN FEET OR GREATER IN HEIGHT, THE SIDE SLOPES NEED TO BE STABILIZED AS THE EMBANKMENT IS PLACED, OR IMMEDIATELY AFTER EACH TEN FEET OF FILL IS IN PLACE. THIS, IN ADDITION TO ESTABLISHING STABILIZED SIDE DITCHES, IS VERY EFFECTIVE FOR MINIMIZING OFFSITE SEDIMENT DISCHARGE.

2.A.2 STRUCTURAL PRACTICES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS APPROVED BY THE ENGINEER.

TEMPORARY:

* SILT FENCE IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIFICATION SECTION 104.

* SYNTHETIC BALES IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIFICATION SECTION 104.

* SANDBAGS TO CONTROL EROSION AND TRAP SILT.

* INLET PROTECTION IN ACCORDANCE WITH DESIGN STANDARD 102.

* ROCK BAGS IN ACCORDANCE WITH DESIGN STANDARD 102.

* SEDIMENT BASIN. THE PERMANENT STORMWATER PONDS WILL BE TEMPORARILY MODIFIED ACCORDING TO THE DETAILS IN THE TCP.

PERMANENT:

* SOD.

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2.B. STORMWATER MANAGEMENT:

SEVERAL STORM SEWER SYSTEMS WILL BE CONSTRUCTED TO CONVEY RUNOFF FROM THE ROADWAY TO THE DITCHES ALONG SOUTHWEST 20TH AVENUE. THE FACILITIES WILL BE PERMITTED BY THE ST. JOHNS RIVER WATER MANAGEMENT DISTRICT AND COMPLY WITH APPLICABLE DESIGN STANDARDS.

SEDIMENT BASINS:

(A) FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME, A TEMPORARY (OR PERMANENT) SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OR STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROL MEASURES, SHALL BE PROVIDED WHERE ATTAINABLE UNTIL FINAL STABILIZATION WHERE SUCH FLOWS ARE DIVERTED AROUND BOTH THE DISTURBED AREA AND THE SEDIMENT BASIN. FOR DRAINAGE BASINS WITH 10 OR MORE DISTURBED ACRES AT ONE TIME AND WHERE A TEMPORARY SEDIMENT BASIN PROVIDING 3,600 CUBIC FEET OF STORAGE PER ACRE DRAINED, OR EQUIVALENT CONTROLS IS NOT ATTAINABLE, A COMBINATION OF SMALLER SEDIMENT BASINS AND/OR SEDIMENT TRAPS AND OTHER BMPS SHOULD BE USED. AT A MINIMUM, SILT FENCES OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SIDESLOPE AND DOWNSLOPE BOUNDARIES OF THE CONSTRUCTION AREA.

(B) FOR DRAINAGE BASINS OF LESS THAN 10 ACRES, SEDIMENT BASINS AND/OR SEDIMENT TRAPS ARE RECOMMENDED BUT NOT REQUIRED. AT A MINIMUM, SILT FENCES OR EQUIVALENT SEDIMENT CONTROLS ARE REQUIRED FOR ALL SIDESLOPE AND DOWNSLOPE BOUNDARIES OF THE CONSTRUCTION AREA.

(C) AREAS THAT WILL BE USED FOR PERMANENT STORMWATER INFILTRATION TREATMENT (E.G. STORMWATER RETENTION PONDS) SHOULD NOT BE USED FOR TEMPORARY SEDIMENT BASINS UNLESS APPROPRIATE MEASURES ARE TAKEN TO ASSURE REMOVAL OF ACCUMULATED FINE SEDIMENTS, WHICH MAY CAUSE PREMATURE CLOGGING AND LOSS OF INFILTRATION CAPACITY, AND TO AVOID EXCESS COMPACTION OF SOILS BY CONSTRUCTION MACHINERY OR EQUIPMENT.

2.C. OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- * PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
- * DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- * DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATER OR WETLANDS.

2.C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- * COVERING LOADED HAUL TRUCKS WITH TARPULINS.
- * REMOVING EXCESS DIRT FROM ROADS DAILY.
- * STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARD 106.
- * USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER OR SEPTIC TANK REGULATIONS:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROCEDURES FOR APPLYING ALL FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 570 OF THE FDOT SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE AND DISPOSAL OF THESE SUBSTANCES.

2.D.4 APPROVED STATE AND LOCAL PLANS AND PERMITS:

- * FDEP RULE CHAPTER 62-25 F.A.C.
- * PROJECTS WITH ISSUED FDEP, WMD, ACOE AND USCG PERMITS, IN ACCORDANCE WITH FDOT SPECIFICATION SECTION 7-2.1, THE CONTRACTOR WILL COMPLY WITH ALL REGULATIONS AND ALL GENERAL, SPECIAL AND PARTICULAR CONDITIONS RELATING CONSTRUCTION ACTIVITIES OF ALL PERMITS ISSUED TO THE DEPARTMENT AS THOUGH SUCH CONDITIONS WERE ISSUED TO THE CONTRACTOR, INCLUDING PROVIDING A LICENSED PROFESSIONAL ENGINEER AND/OR PROFESSIONAL LAND SURVEYOR (AS REQUIRED BY PERMIT) TO SIGN AND SEAL VERIFICATIONS AND AS-BUILT PLANS.

3.0 MAINTENANCE

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL POLLUTION PREVENTION CONTROLS. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE THE EFFECTIVENESS OF EROSION, SEDIMENTATION, TURBIDITY AND POLLUTION CONTROL MEASURES. REMEDIAL ACTION SHALL BE PERFORMED IMMEDIATELY. THE MAINTENANCE PLAN SHALL, AT A MINIMUM, COMPLY WITH THE FOLLOWING:

- * SILT FENCE: MAINTAIN PER SECTION 104. THE CONTRACTOR SHALL ANTICIPATE REPLACING SILT FENCE ON 12 MONTH INTERVALS.
- * SYNTHETIC BALES: REMOVE SEDIMENT WHEN IT REACHES 1/2 HEIGHT OF BALES OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.

4.0 INSPECTIONS

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS PER SECTION 104. TO COMPLY, THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

- * POINTS OF DISCHARGE TO WATER OF THE UNITED STATES.
- * POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM WATER SEWER SYSTEMS.
- * DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- * AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- * STRUCTURAL CONTROLS.
- * STORMWATER MANAGEMENT SYSTEMS.
- * LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

THE CONTRACTOR SHALL INITIATE REPAIRS IMMEDIATELY IN AREAS WHERE ITEMS ARE NOT IN GOOD WORKING ORDER.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT AND PREVENT DISCHARGING POLLUTANTS, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

5.0 NON-STORMWATER DISCHARGES

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL DEWATERING SUCH AS THE WMD CONSUMPTIVE USE PERMIT AND THE FDEP GENERIC PERMIT FOR DISCHARGE OF PRODUCED GROUNDWATER FROM ANY NON-CONTAMINATED SITE ACTIVITY, 62-621.300(2).

WHEN USING DEWATERING PUMPING AVOID DIRECT DISCHARGE INTO SURFACE WATERS OR WETLANDS, INCLUDING NO DIRECT DISCHARGE INTO INLETS. DISCHARGE WATER SHOULD BE ALLOWED TO PERCOLATE INTO THE GROUND OR COLLECTED FOR TREATMENT WITH POLYACRYLAMIDES IF NECESSARY PRIOR TO DISCHARGE.

COST OF ANY UNDERGROUND WORK THAT REQUIRES DEWATERING SHALL INCLUDE COST OF SILT BLOCKING METHODS.

5.0 NON-STORMWATER DISCHARGES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). THE CONTRACTOR SHALL DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT ALACHUA COUNTY PUBLIC WORKS DEPARTMENT AT (352) 374-5245.

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TRAFFIC CONTROL NOTES:

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, 2008 EDITION INDEX 600 SERIES, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2007) AND THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. EXISTING POSTED SPEED LIMIT IS 40 MPH FOR S.W. 20TH AVE. MOT DESIGN SPEED SHALL MATCH THE POSTED SPEEDS.
3. NO LANE CLOSURES ARE PERMITTED DURING NON-WORK PERIODS ON ANY ROADWAY OR ON WEEKENDS WHEN THE UNIVERSITY OF FLORIDA HAS A HOME FOOTBALL GAME.
4. ALL LANE CLOSURES SHALL BE REPORTED TO THE LOCAL EMERGENCY AGENCIES, THE MEDIA, THE COUNTY PROJECT MANAGER AND PUBLIC WORKS AT (352) 374-5245 AT LEAST 48 HOURS PRIOR TO ANY PLANNED CLOSURES.
5. LANE CLOSURES WILL ONLY BE ALLOWED DURING THE HOURS OF 7 P.M. ON FRIDAY THROUGH 5 A.M. ON MONDAY.
6. UNLESS WRITTEN AUTHORIZATION IS OBTAINED FROM THE ENGINEER, CHANGES IN TRAFFIC ROUTING WILL BE ACCOMPLISHED DURING OFF PEAK HOURS. MAJOR TRAFFIC SHIFTS, INTERMITTENT CLOSURES OR OTHER DETOURS SHALL BE PLANNED WITH NOTICE GIVEN AT LEAST TWO WEEKS IN ADVANCE IN ORDER TO PROVIDE ADEQUATE NOTICE TO THE TRAVELING PUBLIC. DURING PERIODS OF MAJOR SHIFTS OR CLOSURES, THE CONTRACTOR SHALL PROVIDE ADEQUATE CREW FOR INSTALLATION, MAINTENANCE, AND REMOVAL OF TRAFFIC CONTROL DEVICES (I.E., BARRICADES, SIGNS, ARROW PANELS, VMS'S, ETC.) THIS CREW SHALL CONSIST OF AT LEAST THREE MEMBERS OF THE CONTRACTOR'S WORK FORCE, ONE OF WHICH IS MOT CERTIFIED, WHOSE RESPONSIBILITY WILL BE MAINTENANCE OF TRAFFIC CONTROL. THE CONTRACTOR SHALL FURNISH A WORK VEHICLE TO AID IN MAINTAINING THE TRAFFIC CONTROL DEVICES.
7. THE CONTRACTOR SHALL OPEN ALL TRAFFIC LANES IN THE EVENT OF AN EMERGENCY OR IF THE LANE CLOSURE CAUSES A DRIVER DELAY GREATER THAN 20 MINUTES, UNTIL THE TRAFFIC IS RETURNED TO AN ACCEPTABLE FLOW AS DETERMINED BY THE ENGINEER.
8. ALL EXISTING SIGNS THAT ARE AFFECTED BY THE PROJECT SHALL BE RELOCATED AND MAINTAINED BY THE CONTRACTOR AT ALL TIMES FOR THE DURATION OF THE PROJECT. CONFLICTING EXISTING REGULATORY SIGNS ARE TO BE REMOVED OR COVERED. SIGNS THAT ARE REMOVED SHALL BE REINSTALLED ONCE THE CONFLICT IS RESOLVED.
9. POSITIVE DRAINAGE SHALL BE PROVIDED AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE THE NECESSARY TEMPORARY DRAINAGE, INCLUDING INLETS, COLLARS, PLUGS, AS NEEDED TO FACILITATE DRAINAGE OF THE PROJECT RIGHT-OF-WAY, AS APPROVED BY THE ENGINEER DURING CONSTRUCTION.
10. ALL NECESSARY DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO THE CONSTRUCTION OF ANY TRIBUTARY IMPROVEMENTS.
11. ARROWS SHOWN ON THE PLANS DENOTE DIRECTION OF TRAFFIC ONLY AND DO NOT INDICATE PAVEMENT MARKINGS.
12. THIS TRAFFIC CONTROL PLAN IS NOT A SEQUENCE OF CONSTRUCTION. ONLY THOSE WORK ACTIVITIES AFFECTING EXISTING OR INTERIM TRAFFIC PATTERNS ARE ADDRESSED.
13. EXISTING LIGHTING WITHIN THE PROJECT LIMITS SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
14. WHENEVER GRADE DIFFERENCES EXIST BETWEEN THE PROJECT AND AN INTERSECTING STREET, TURNOUT OR CROSSOVER, THE CONTRACTOR SHALL INSTALL AND MAINTAIN 2-FOOT ASPHALT WEDGES FEATHERED TO PROVIDE A SMOOTH TRANSITION FROM THE STREET, TURNOUT OR CROSSOVER TO THE PROJECT IN ACCORDANCE WITH FDOT INDEX NO. 600 SERIES.
15. PORTABLE CHANGEABLE VARIABLE MESSAGE (PCVM) SIGNS SHALL BE USED TO INFORM THE MOTORIST OF UPCOMING LANE CLOSURES AND LANE SHIFTS. PCVM SIGNS SHALL BE INSTALLED AT THE COMMENCEMENT OF CONSTRUCTION AND SHALL DISPLAY MESSAGES AS SHOWN IN THE TCP PLANS (SHEET NO. 24). AT THE TIME THE NEW SIGNAL IS ILLUMINATED FOR ITS "BURN-IN" PERIOD, MESSAGES ON BOTH APPROACHES SHALL BE CHANGED TO "NEW SIGNAL AHEAD" AND SHALL REMAIN ACTIVE FOR 7 DAYS AFTER THE SIGNAL IS ACTIVATED. ALL COSTS FOR THE PCVM SIGNS SHALL BE PAID UNDER PAY ITEM 102-99, CHANGEABLE VARIABLE MESSAGE SIGN (TEMPORARY), ED.

CONSTRUCTION PHASING NOTES

PHASE 1

1. ERECT ADVANCE SIGNING, STRIPING AND TRAFFIC CONTROL DEVICES AS SHOWN ON THE TRAFFIC CONTROL PLAN ADVANCE SIGNING PLAN SHEET AND IN ACCORDANCE WITH INDEX NO. 601 AND INDEX NO. 602 (OTHER INDEXES MAY APPLY).
2. OBLITERATE EXISTING PAVEMENT MARKINGS AND REPLACE WITH MARKINGS SHOWN ON PHASE 1 TRAFFIC CONTROL PLAN.
3. CONSTRUCT THE SOUTH SIDE OF THE BUS BAY WITHIN THE WORKZONE SHOWN IN THE TCP PLANS.
4. AT THE END OF THE WORK DAY, AND PRIOR TO LEAVING THE SITE, THE CONTRACTOR SHALL ADJUST THE LOCATIONS OF THE PLASTIC DRUMS SO THAT 12-FT TRAVEL LANES ARE PROVIDED IN BOTH DIRECTIONS WHEN WORKERS ARE NOT PRESENT. NO MORE THAN 3-INCHES OF DROP OFF WILL BE PERMITTED ADJACENT TO ANY LANE.

PHASE 2

1. CONSTRUCT THE NORTH SIDE OF THE BUS BAY WITHIN THE WORKZONE SHOWN IN THE TCP PLANS.
2. AT THE END OF THE WORK DAY, AND PRIOR TO LEAVING THE SITE, THE CONTRACTOR SHALL ADJUST THE LOCATIONS OF THE PLASTIC DRUMS SO THAT 12-FT TRAVEL LANES ARE PROVIDED IN BOTH DIRECTIONS WHEN WORKERS ARE NOT PRESENT. NO MORE THAN 3-INCHES OF DROP OFF WILL BE PERMITTED ADJACENT TO ANY LANE.
3. REMOVE TRAFFIC CONTROL DEVICES ERECTED IN PHASE 1.

PHASE 3-A

1. ERECT ADVANCE SIGNING, STRIPING AND TRAFFIC CONTROL DEVICES AS SHOWN ON THE TRAFFIC CONTROL ADVANCE SIGNING PLAN SHEET AND IN ACCORDANCE WITH INDEX NO. 603 (OTHER INDEXES MAY APPLY).
2. TEMPORARILY CLOSE THE EASTBOUND TRAVEL LANES AND CONSTRUCT THE PEDESTRIAN CROSSING WITH BRICK PAVERS IN THE EASTBOUND TRAVEL LANE. LANE CLOSURES SHALL BE PERFORMED AS SHOWN IN THE TRAFFIC CONTROL PLAN ADVANCE SIGNING PLAN SHEET.

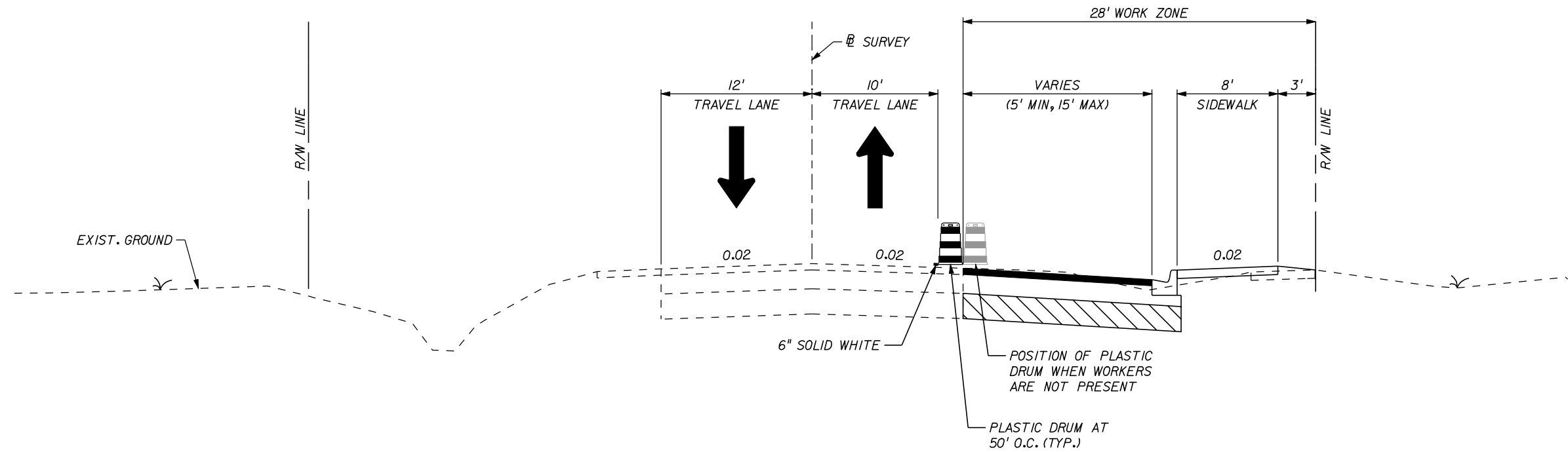
PHASE 3-B

1. OPEN THE EASTBOUND TRAVEL LANE AND TEMPORARILY CLOSE THE WESTBOUND TRAVEL LANES AND CONSTRUCT THE PEDESTRIAN CROSSING WITH BRICK PAVERS IN THE WESTBOUND TRAVEL LANE. LANE CLOSURES SHALL BE PERFORMED AS SHOWN IN THE TRAFFIC CONTROL PLAN ADVANCE SIGNING PLAN SHEET.

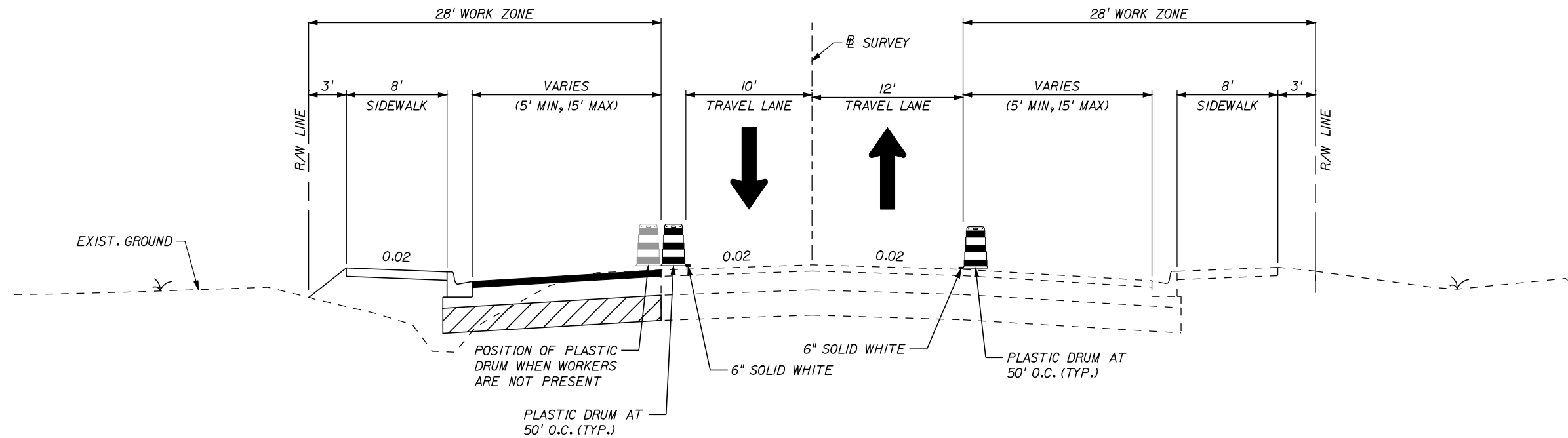
PHASE 3-C

1. MILL & RESURFACE S.W. 20TH AVE.
2. APPLY FINAL LAYER OF PAVEMENT MARKINGS AND RPM'S.
3. REMOVE ALL TRAFFIC CONTROL DEVICES.
4. ILLUMINATE THE NEW SIGNAL FOR ITS "BURN-IN" PERIOD.
5. PLACE PCVM SIGNS AT STA. 180+14 IN THE EASTBOUND DIRECTION AND STA. 186+64 IN THE WESTBOUND DIRECTION. MESSAGE ON BOTH SIGNS SHALL DISPLAY "NEW SIGNAL AHEAD".

R E V I S I O N S				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. No. 50096 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 6500	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			TRAFFIC CONTROL PLAN GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		20
						ALACHUA	211365-0-03		



CONSTRUCTION PHASE 1
SW 20TH AVENUE
STA. 180+70.00 TO STA. 185+80.00



CONSTRUCTION PHASE 2
SW 20TH AVENUE
STA. 180+70.00 TO STA. 185+80.00

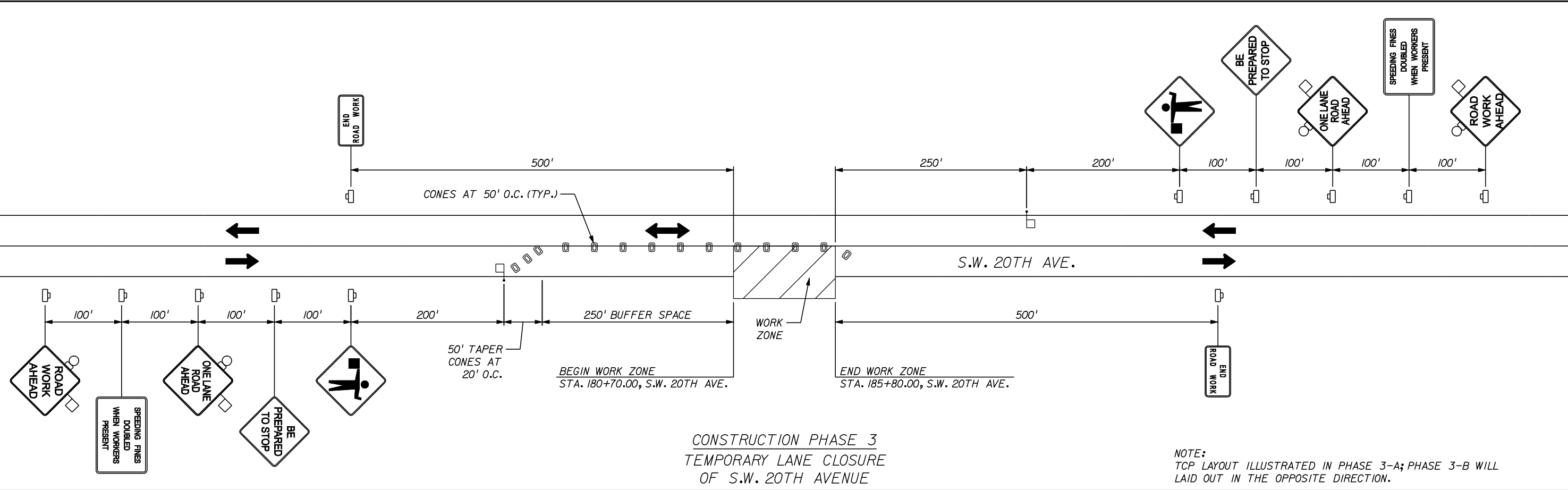
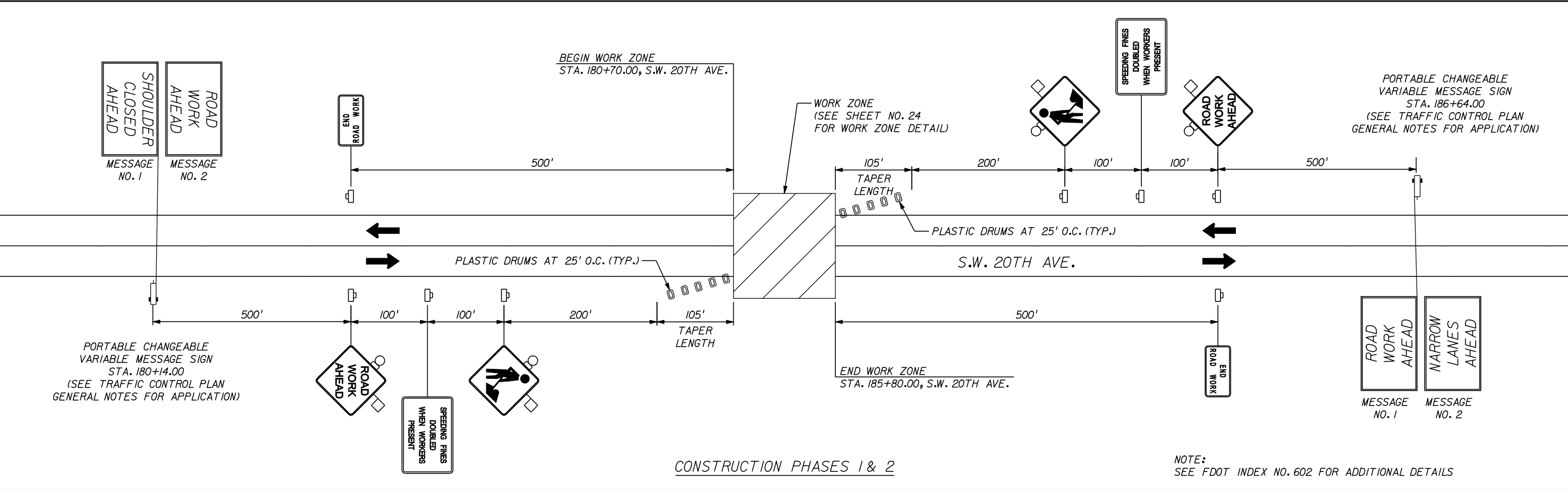
REVISIONS				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. No. 50096 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 6500	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			TRAFFIC CONTROL PLAN TYPICAL SECTIONS	SHEET NO. 21
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						ALACHUA	211365-0-03		

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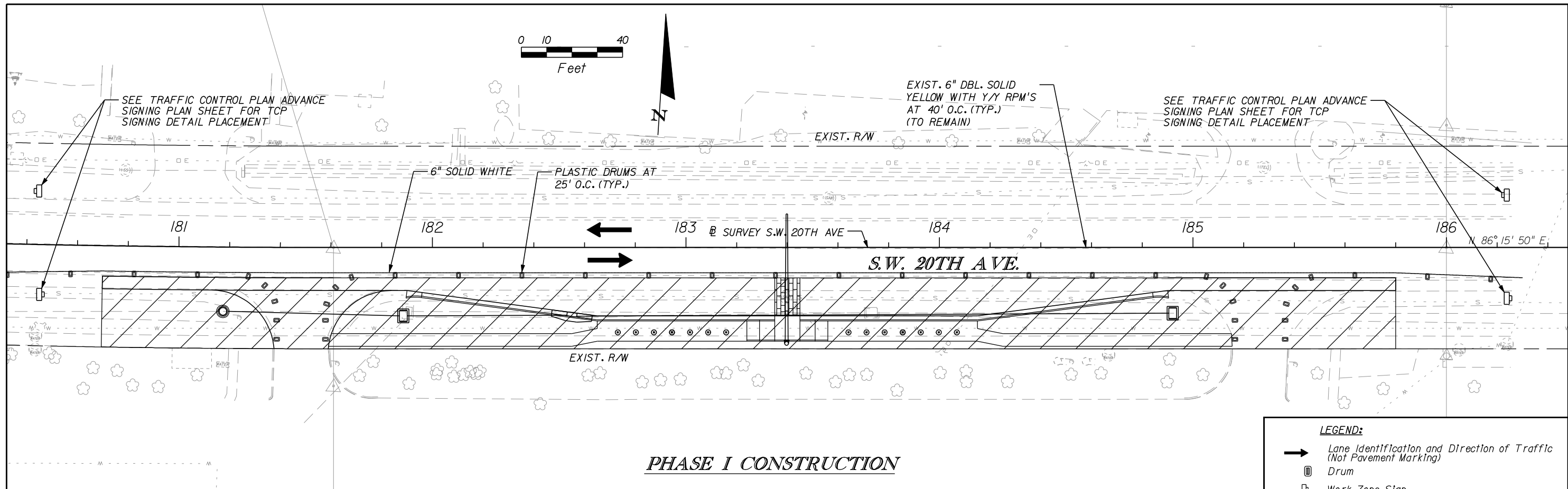
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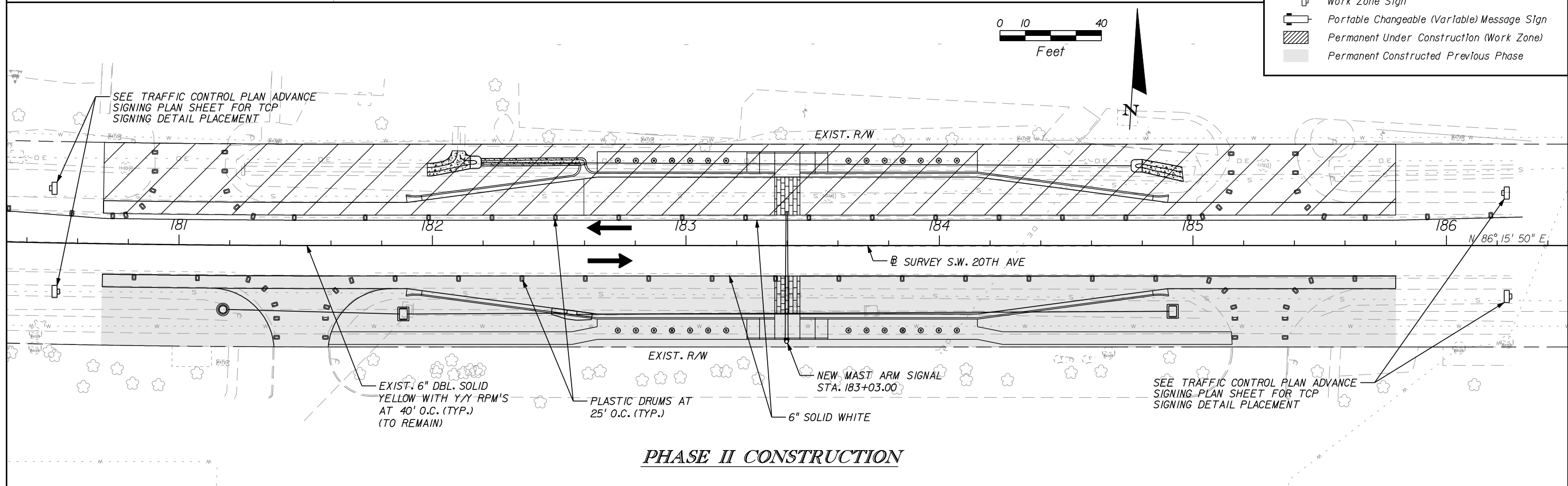


REVISIONS				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. No. 50096 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 6500	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT		TRAFFIC CONTROL PLAN ADVANCE SIGNING PLAN	SHEET NO. 22
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY		
						ALACHUA	211365-0-03	



LEGEND:

- Lane Identification and Direction of Traffic (Not Pavement Marking)
- ⊞ Drum
- Work Zone Sign
- ▭ Portable Changeable (Variable) Message Sign
- ▨ Permanent Under Construction (Work Zone)
- Permanent Constructed Previous Phase



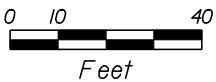
REVISIONS				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. No. 50096 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 6500	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT		TRAFFIC CONTROL PLAN PHASE I & PHASE II	SHEET NO. 23
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY		
						ALACHUA	211365-0-03	

EROSION CONTROL GENERAL NOTES

- 1. EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE LATEST FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD SPECIFICATIONS, THE LATEST FDOT STANDARD DETAILS AND THE LATEST FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL MANUAL.
- 2. ANY PORTION OF THE EXISTING GROUND THAT IS DISTURBED OUTSIDE THE LIMITS OF CONSTRUCTION AS A RESULT OF THE CONTRACTORS ACTIVITIES SHALL BE REDRESSED AND SODDED AT THE CONTRACTORS EXPENSE AS DIRECTED BY THE ENGINEER.
- 3. SOD SHALL BE PLACED WITHIN 48 HOURS TO PREVENT EROSION. ALL AREAS TO BE SODDED ARE TO BE THOROUGHLY WET PRIOR TO AND AFTER PLACEMENT IS COMPLETE.
- 4. SOME AREAS TO BE SODDED MAY REQUIRE THE SOD TO BE LAID BY HAND. THESE AREAS MAY INCLUDE, BUT ARE NOT LIMITED TO, SODDED AREAS WIDTHS LESS THAN 42-INCHES, AROUND HEADWALLS AND UTILITY CUT REPAIRS.
- 5. ALL SODDING TO MATCH EXISTING GRASS TYPE, SODDING SHALL INCLUDE THE COST OF THE SOD, WATER, FERTILIZER, AND FURNISHING, PLACING AND DRESSING THE TOPSOIL PRIOR TO PLACING THE SOD.
- 6. SEDIMENT BARRIERS SHALL BE USED AROUND THE PERIMETER OF THE PROPOSED CONSTRUCTION LIMITS AND IN ALL DRAINAGE DITCHES WHERE APPLICABLE.
- 7. INLET PROTECTION SYSTEM SHALL BE USED AT ALL DRAINAGE STRUCTURES IN ACCORDANCE WITH THE FDOT STANDARD SPECIFICATIONS AND THE FLORIDA STORMWATER EROSION AND SEDIMENTATION CONTROL MANUAL.
- 8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO IMPLEMENT THE EROSION AND TURBIDITY CONTROLS TO THE SPECIFIED STANDARDS. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THESE CONTROLS ARE PROPERLY INSTALLED, MAINTAINED, AND FUNCTIONING PROPERLY TO PREVENT TURBID OR POLLUTED WATER FROM LEAVING THE PROJECT SITE. THE CONTRACTOR SHALL ADJUST THE EROSION AND TURBIDITY CONTROLS AS LISTED ABOVE AND ADD ADDITIONAL CONTROL MEASURES, AS REQUIRED, TO ENSURE THE PROJECT SITE MEETS ALL FEDERAL, STATE AND LOCAL EROSION AND TURBIDITY CONTROL REQUIREMENTS.
- 9. REFER TO THE SWPPP FOR ADDITIONAL REQUIREMENTS.
- 10. SEDIMENT BARRIERS SHOWN ON THE EROSION CONTROL PLANS MAY BE CHANGED OR ALTERED AS APPROVED BY THE ENGINEER TO SUIT CONSTRUCTION CONDITIONS.
- 11. THE SILT FENCE SUPPORT STAKES SHALL BE LOCATED ON THE DOWNSTREAM SIDE OF THE SILT FENCE AS SHOWN PER FDOT INDEX 102 REGARDLESS OF THE ORIENTATION OF THE STAKES SHOWN IN THE EROSION CONTROL PLANS.

REVISIONS				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. No. 50096 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 6500	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			EROSION CONTROL PLAN GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		24
						ALACHUA	211365-0-03		

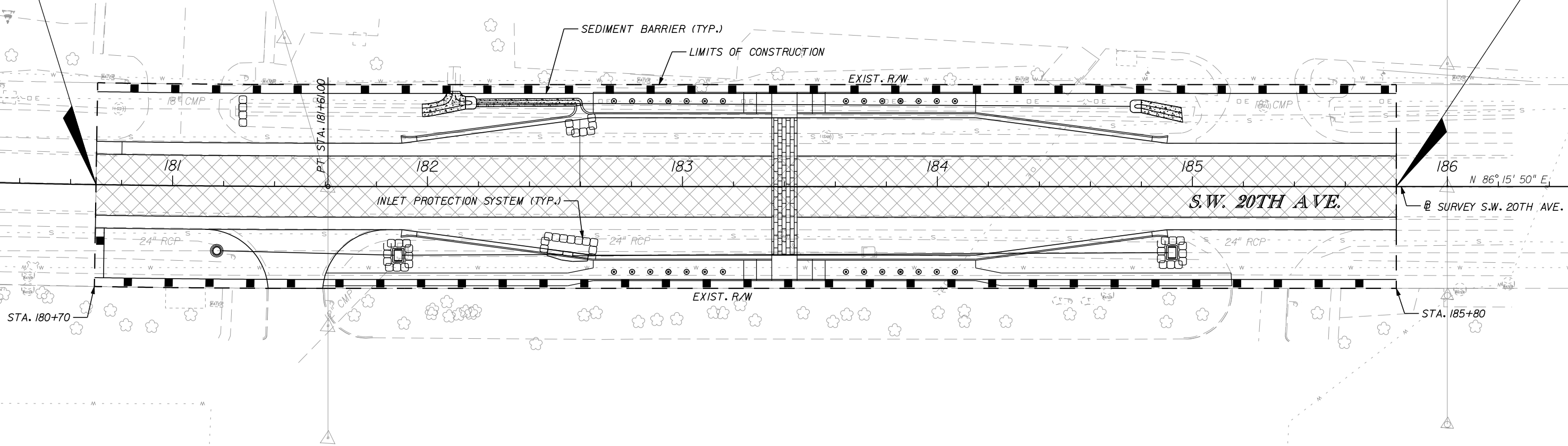
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PINNACLE POINT LLC

END PROJECT
STA. 185+80.00
@ SURVEY S.W. 20TH AVE

BEGIN PROJECT
STA. 180+70.00
@ SURVEY S.W. 20TH AVE



SOUTHWEST VILLAS

LEGEND

- SEDIMENT BARRIER
- INLET PROTECTION SYSTEM
- LIMITS OF CONSTRUCTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD:
TERREL SHAW, P.E.
LIC. No. 50096
HNTB
7077 BONNEVAL ROAD, SUITE 600
LIBERTY CENTER
JACKSONVILLE, FLORIDA 32216
PHONE: (904) 296-0207
CA NO.: 6500

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

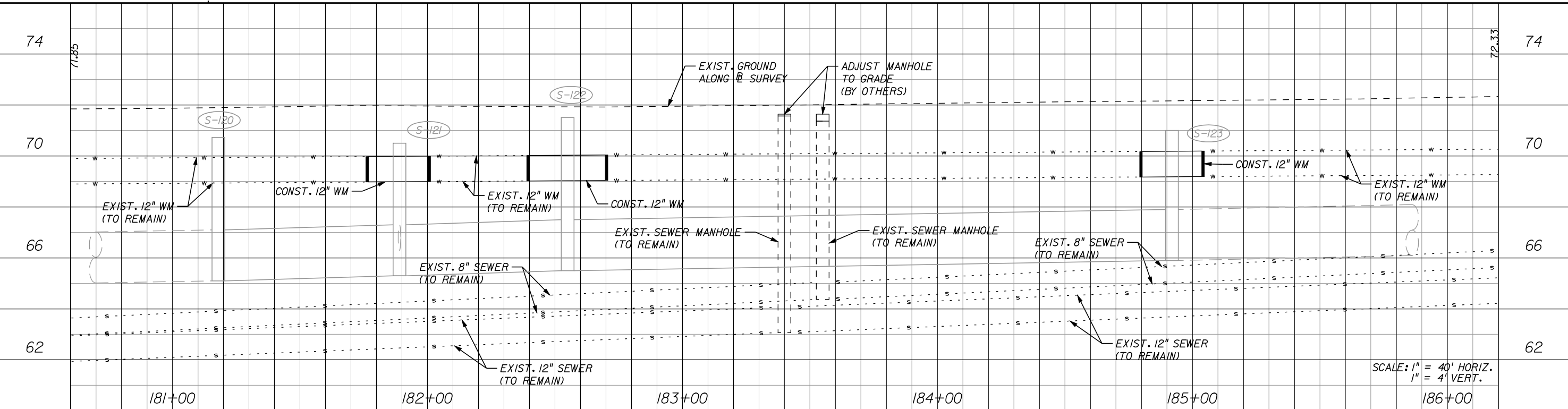
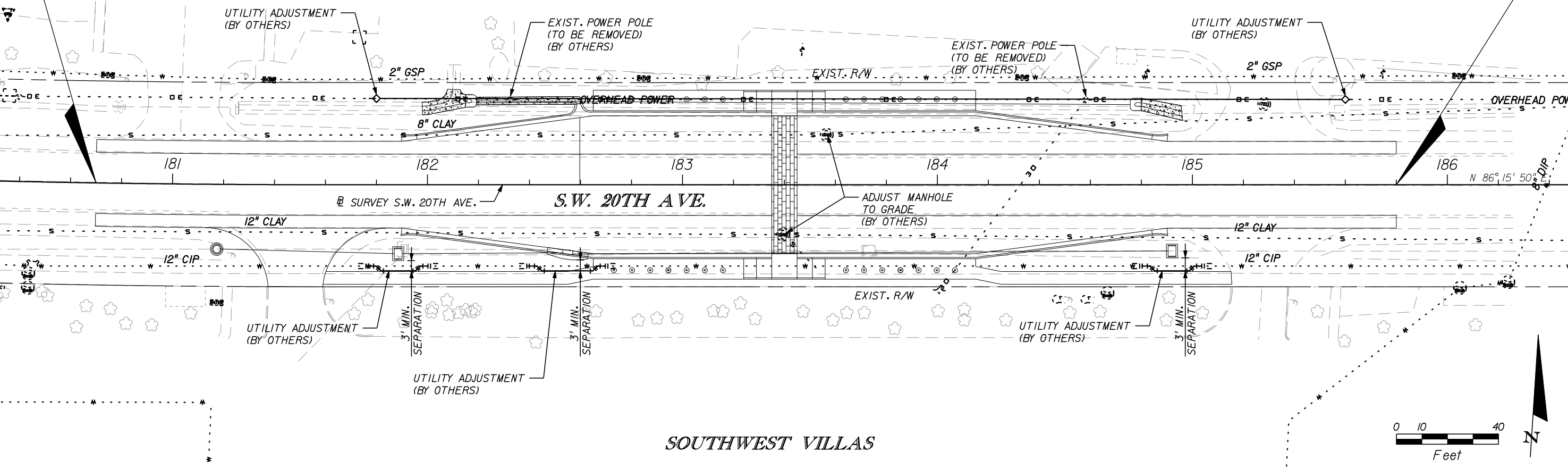
EROSION CONTROL PLAN	

SHEET NO.
25

BEGIN PROJECT
STA. 180+70.00
B SURVEY S.W. 20TH AVE

PINNACLE POINT LLC

END PROJECT
STA. 185+80.00
B SURVEY S.W. 20TH AVE



REVISIONS				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. No. 50096 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 6500	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT		UTILITY ADJUSTMENT SHEET		SHEET NO. 26
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY			
						ALACHUA	211365-0-03		

ALACHUA COUNTY
PUBLIC WORKS DEPARTMENT

CONTRACT PLANS

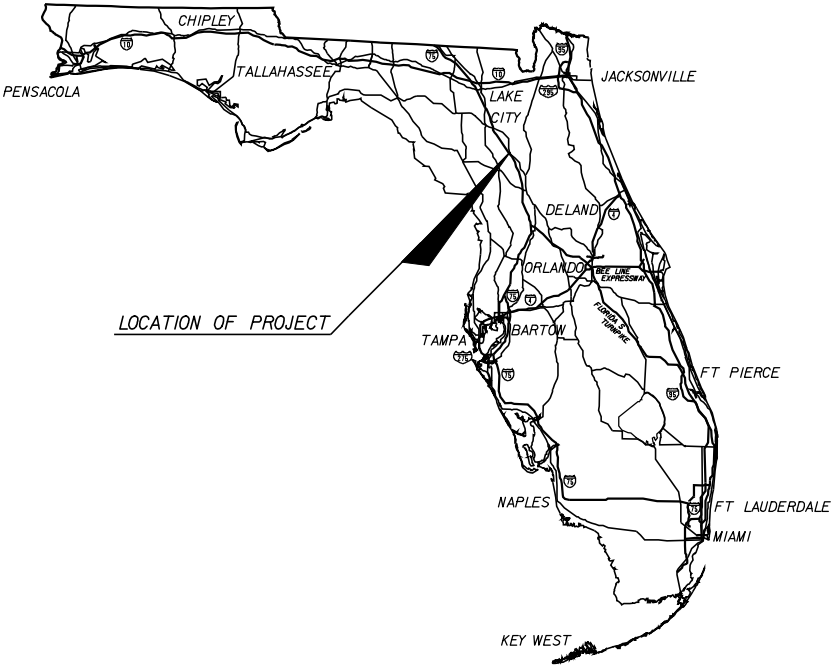
FINANCIAL PROJECT ID 211365-0-03
FEDERAL AID PROJECT NO. S124-002R
ALACHUA COUNTY (51240)
SMART BUS BAY ON
SOUTHWEST 20TH AVENUE

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

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 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. 6500

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

TABULATION OF QUANTITIES

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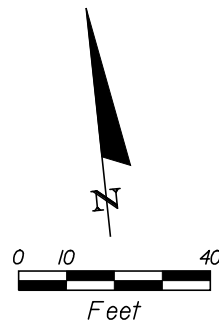
NOTE: PAY ITEM NO. 710-90, PAINTED PAVEMENT MARKINGS, SHALL BE PLACED AS PER PLAN FOR TEMPORARY PAVEMENT MARKINGS. QUANTITIES ARE AS PER THE CORRESPONDING THERMOPLASTIC PAVEMENT MARKINGS.

R E V I S I O N S				ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. No. 50098 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 6500	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			TABULATION OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-2
						ALACHUA	211365-0-03		

SIGNING AND PAVEMENT MARKING GENERAL NOTES

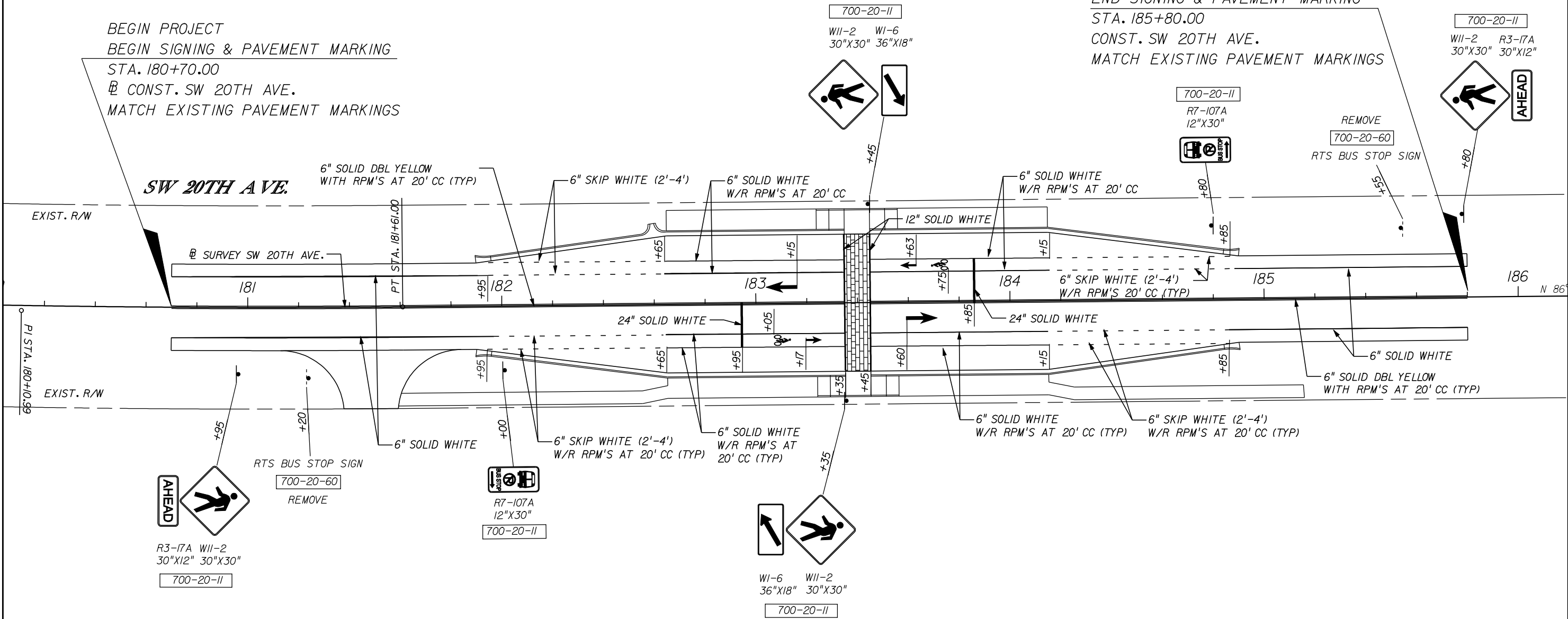
1. PAVEMENT MARKINGS SHALL BE PLACED AS SHOWN IN THE TRAFFIC DESIGN STANDARDS. SIGNING AND PAVEMENT MARKING SHALL BE INSTALLED IN ACCORDANCE WITH THE 2003 EDITION OF THE MANUAL ON UNIFORM TRAFFC CONTROL DEVICES (MUTCD).
2. ALL EXISTING ALACHUA COUNTY, CITY OF GAINESVILLE, OR RTA SIGNS THAT CONFLICT WITH 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 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				<div>ENGINEER OF RECORD: TERREL SHAW, P.E. LIC. No. 50096 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 6500</div>	<div>ALACHUA COUNTY PUBLIC WORKS DEPARTMENT</div>			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						ALACHUA	211365-0-03		S-3



BEGIN PROJECT
BEGIN SIGNING & PAVEMENT MARKING
STA. 180+70.00
CONST. SW 20TH AVE.
MATCH EXISTING PAVEMENT MARKINGS

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. 50096 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 6500	ALACHUA COUNTY PUBLIC WORKS DEPARTMENT			SIGNING & PAVEMENT MARKING PLAN	SHEET NO. S-4
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						ALACHUA	211365-0-03		

ALACHUA COUNTY
PUBLIC WORKS DEPARTMENT

CONTRACT PLANS

FINANCIAL PROJECT ID 2II365-0-03
FEDERAL AID PROJECT NO. SI24-002R
ALACHUA COUNTY (5I240)
SMART BUS BAY ON
SOUTHWEST 20TH AVENUE

SIGNALIZATION PLANS

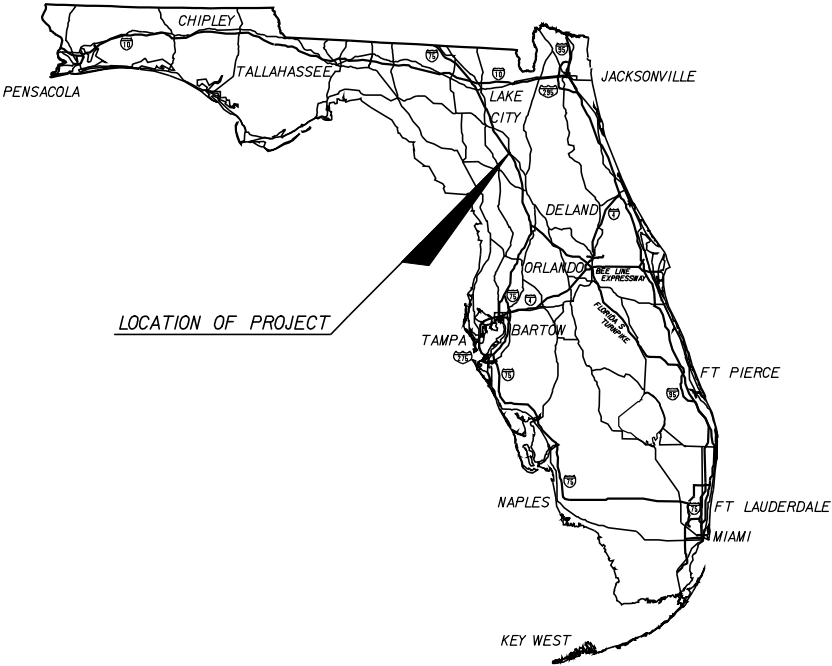
INDEX OF SIGNALIZATION PLANS

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	GUIDE SIGN 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/rddesign/>

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) 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. 6500

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

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REV I S I O N S				ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E. FL LIC. No. 58703 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 298-0207 FAX NO.: 9500	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:

- 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.
- 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 FDOT SPECIFICATIONS.
- THE CONTRACTOR SHALL ADHERE TO ALL CITY AND COUNTY ORDINANCES AND STATE REGULATIONS DURING ALL CONSTRUCTION OPERATIONS.
- 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.
- 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.
- THE CONTRACTOR SHALL VERIFY THE COLOR CODES OF THE SIGNAL CABLE WITH THE CITY OF GAINESVILLE BEFORE ORDERING.
- 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.
- AT THE TIME OF FINAL PROJECT INSPECTION, THE CONTRACTOR SHALL FURNISH THE INSPECTOR THREE COMPLETE SETS OF AS-BUILT PLANS.
- 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.
- 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.
- ALL CONDUIT SHALL BE 2" MINIMUM UNLESS OTHERWISE SPECIFIED IN PLANS, EXCEPT ELECTRICAL POWER SERVICE DUCT.
- PAYMENT FOR ELECTRICAL SERVICE WIRE NOT IN THE VERTICAL ASSEMBLY WILL BE PAID FOR PER LINEAR FOOT OF A SINGLE CONDUCTOR.
- A MANUAL PUSH BUTTON CORD SHALL BE FURNISHED IN ALL CONTROLLER CABINETS.
- DURING PRE-EMPTION, ALL DIRECTIONS SHALL BE RED WITH THE EXCEPTION OF THE APPROACH DIRECTION, WHICH SHALL BE GREEN.
- UNLESS SPECIFIED OTHERWISE, ALL PULL BOX COVERS TO BE FURNISHED AND INSTALLED SHALL BE NON-METALLIC.
- 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.
- 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 SUBMITTAL'S REQUIRED FOR THIS PROJECT.
- 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.
- 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.
- ALL PEDESTRIAN SIGNAL INDICATIONS SHALL BE COUNT-DOWN PEDESTRIAN SIGNAL INDICATIONS AND ALL PEDESTRIAN SIGNALS SHALL HAVE INTERNATIONAL SYMBOLS AND BE COUNTDOWN.
- 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-TRAC OR EQUIVALENT.
- 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.
- AN EXCAVATION EXCEEDING 18 INCHES SHALL BE DONE BY HAND WITHIN 5 FEET OF ANY FIELD LOCATED UNDERGROUND UTILITY.
- 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(MOT).
- MAINTAINENCE OF TRAFFIC SHALL CONFORM TO FDOT DESIGN STANDARDS.
- 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.

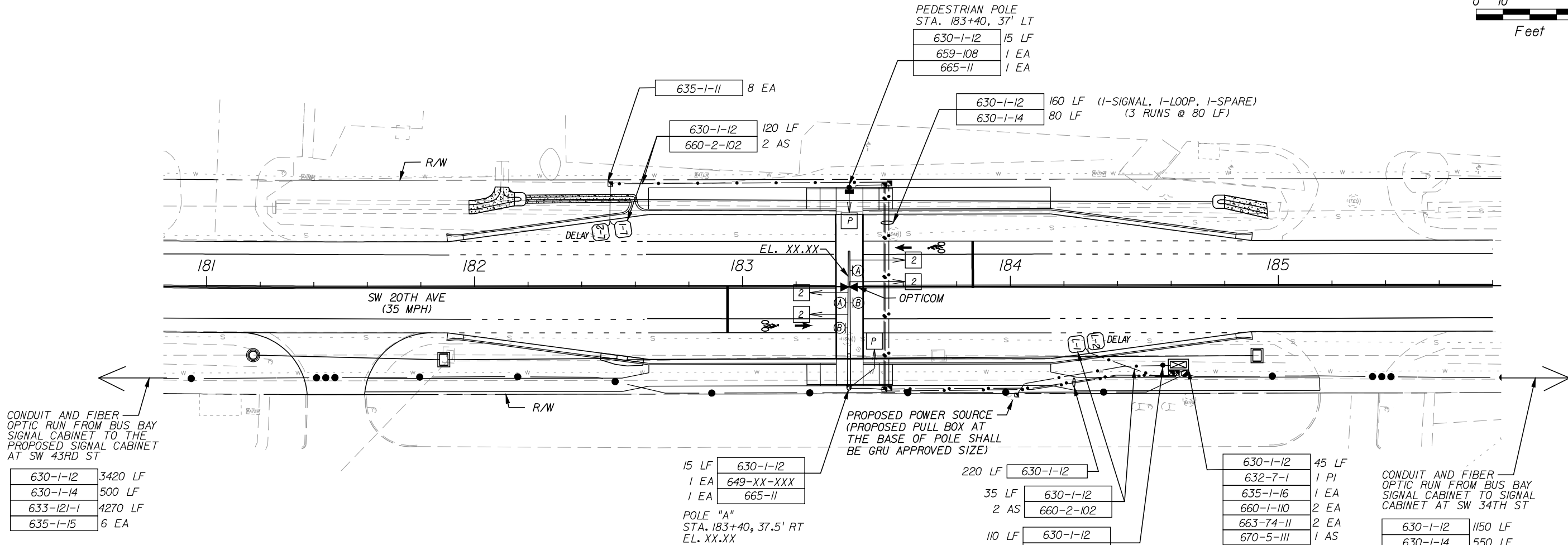
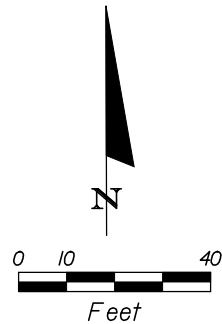
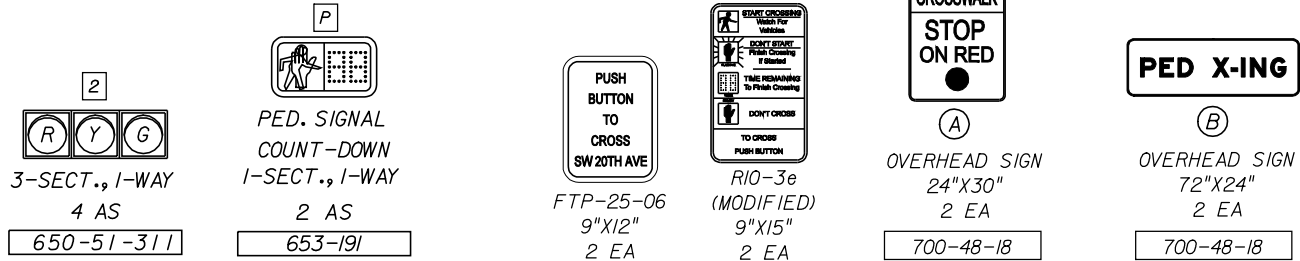
CLAY ELECTRIC	STEVE LAW	352-337-8115
COX COMMUNICATIONS	GARY HARRELL	352-337-2052
GRU WASTEWATER /WATER	JASON SPARKS	352-393-1642
GRU ELECTRIC	WALLY SEALEY	352-334-3400 EXT 6056
GRU GAS	MIKE BROWN	352-393-1466
AT&T	EVERETT SPARKS	352-331-9147

SPECIAL NOTES:

- THE COST OF FURNISHING AND INSTALLING THE FTP-25-06 AND RIO-3e (INTERNATIONAL) SIGNS SHALL BE INCLUDED IN PAY ITEM 665-II.
- 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.
- 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.
- THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL MAST ARM AND ROADWAY ELEVATIONS PRIOR TO FABRICATING MAST ARMS.
- THE CONTRACTOR IS TO PROVIDE THREE ADDITIONAL CONDUIT RUNS PULLED AND CAPPED FROM THE CONTROLLER TO THE NEAREST PULL BOXES.
- ALL PEDESTRIAN PHASES TO BE PUSH BUTTON ACTUATED WITH SOLID STATE SWITCH, MOMENTARY LED AND TONE (EX. BULLDOG PUSH BUTTON).
- 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.
- 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.
- INTERCONNECT/FIBER OPTIC CABLE AND SIGNAL CABLE ARE TO BE PLACED IN SEPARATE CONDUITS AND PULL BOXES.
- 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.
- FINAL SIGNAL POLE PLACEMENT SHALL BE A MINIMUM OF 6' FROM ALL OVERHEAD UTILITIES.
- 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.
- ALL ASTRO BRACKETS SHALL ARTICULATE AND HAVE BUILT INTO THE HOUSING A 12" (MINIMUM) CONDUCTOR TERMINAL STRIP, PELCO MODEL #AB012 OR APPROVED EQUIVALENT.
- THE CONTRACTOR SHALL VERIFY STREET NAME SIGN MESSAGES PRIOR TO FABRICATION. BLOCK NUMBERS AND/OR ARROWS MAY BE REQUIRED.
- 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.
- IN ADDITION TO THE REQUIREMENTS SET FORTH IN THE FDOT SPECIFICATIONS, ELECTRICAL POWER SERVICE IS TO INCLUDE CONSTRUCTING METER/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.
- PAY ITEM NO. 639-I-22 SHALL INCLUDE PAYMENT FOR THE "A" FRAME DISCONNECT DETAILED IN THE PLANS.
- 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.
- PAYMENT FOR POWER SERVICE PULL BOXES TO BE INCLUDED UNDER PAY ITEM NO. 635-I-II.
- YELLOW FLASHING BEACONS AND RED FLASHING BEACONS WILL BE USED TO CONTROL TRAFFIC ON MAJOR AND MINOR ROADS DURING FLASHING OPERATION, RESPECTIVELY.
- THE CONTRACTOR SHALL ADJUST, AS DIRECTED BY THE ENGINEER, THE LOCATIONS OF THE POLES, CONDUITS, PULL BOXES, ETC. TO AVOID ANY UTILITY CONFLICTS.
- PAY ITEM NUMBER 670-5-III SHALL INCLUDE NAZTEC TYPE-VI CONTROLLER CABINET W/ETHERNET, NAZTEC TS-2 TYPE-I (NEMA) CONTROLLER, GENERATOR PLUG, CISCO INDUSTRIAL SWITCH AND LED MMU.
- 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 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.

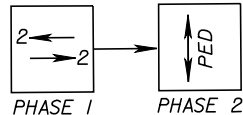
R E V I S I O N S				ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E. FL LIC. No. 55703 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 65500	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						ALACHUA	211365-0-03		T-3

SIGNAL HEAD DETAILS



CONTROLLER TIMINGS								
TIMING FUNCTION								
MOVEMENT NUMBER		1	2	3	4	5	6	7 P
TIMING FUNCTION	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:

- THE MAJOR STREET IS SW 20TH AVENUE (MOVEMENTS 2). THE SPEED LIMIT ON SW 20TH AVENUE IS 35 MPH.
- NO LANE CLOSURES ON FOOTBALL FRIDAYS, WEEKDAY MORNINGS AND AFTERNOONS.
- 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.
- 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.
- 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.
- 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.

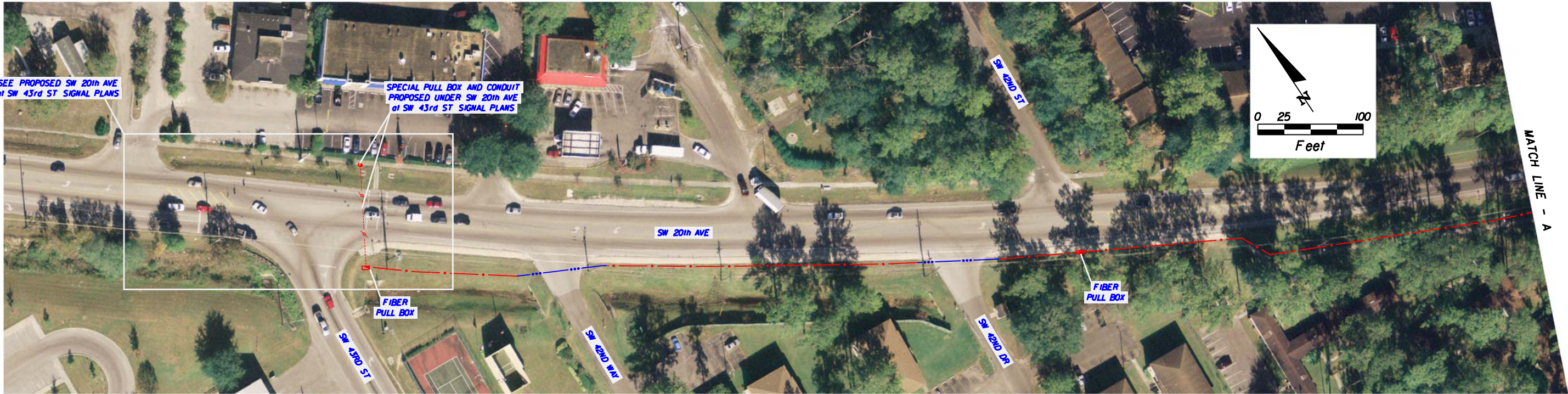
R E V I S I O N S				ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E. FL LIC. No. 58703 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 298-0207 CA NO.: 6500	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNALIZATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-4
						ALACHUA	211365-0-03		

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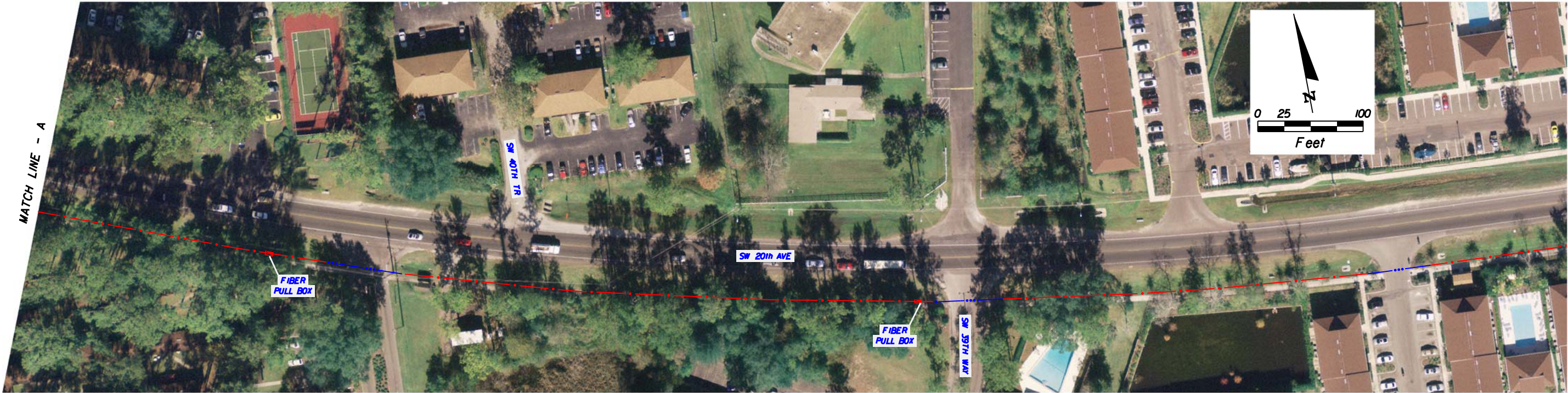
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- LEGEND:
- PROPOSED CONDUIT-JACKED
 - - - PROPOSED CONDUIT-UNDERGROUND
 - EXISTING CONDUIT
 - FIBER OPTIC PULL BOX
 - EXISTING SPECIAL PULL BOX

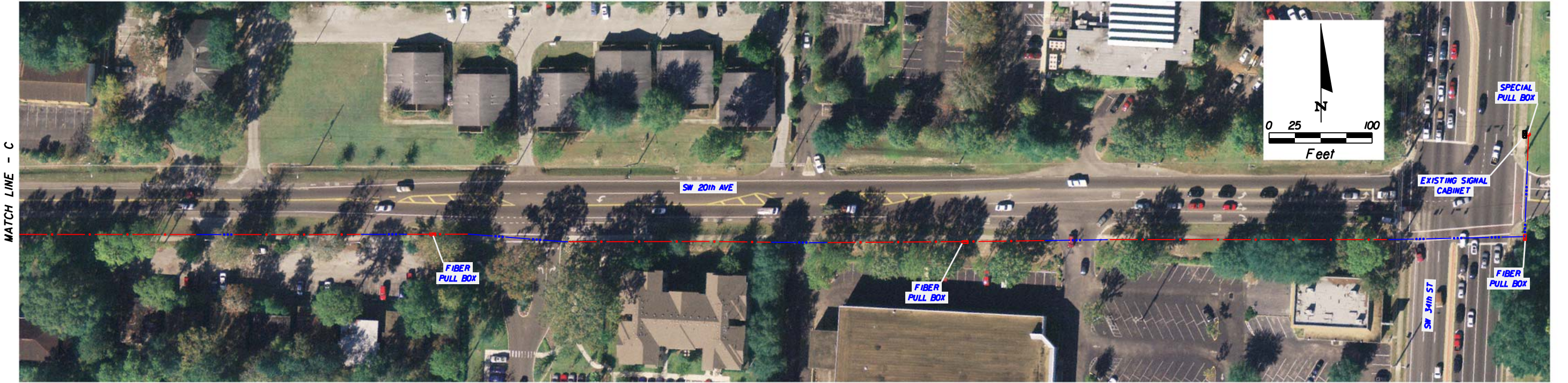


NOTE: ALL COMMUNICATION QUANTITIES ARE INCLUDED IN SHEET T-4. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING THE PROPOSED FIBER OPTIC CABLE SIGNAL INTERCONNECT UNDER THE DIRECTION OF THE PROJECT ENGINEER. THE PROPOSED LOCATION OF THE FIBER OPTIC CABLE SIGNAL INTERCONNECT SHOWN ON THESE PLANS IS PRELIMINARY. 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. MIKESELL, P.E. FL LIC. No. 58703 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 6500	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			COMMUNICATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						ALACHUA	211365-0-03		T-5

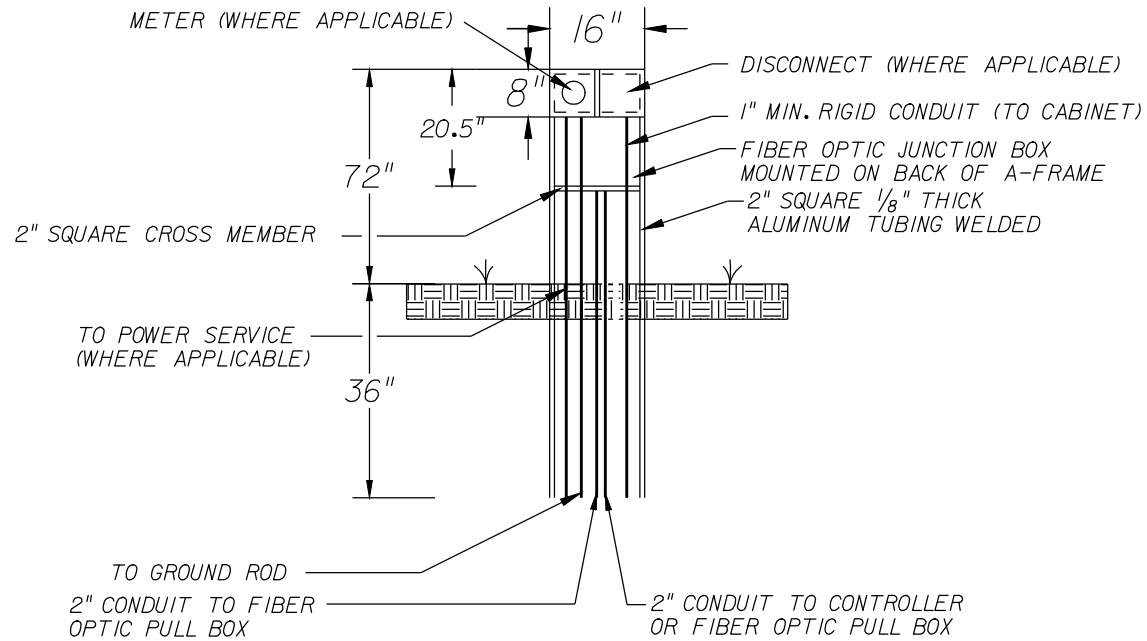


- LEGEND:
- PROPOSED CONDUIT-JACKED
 - PROPOSED CONDUIT-UNDERGROUND
 - FIBER OPTIC PULL BOX
 - SPECIAL PULL BOX

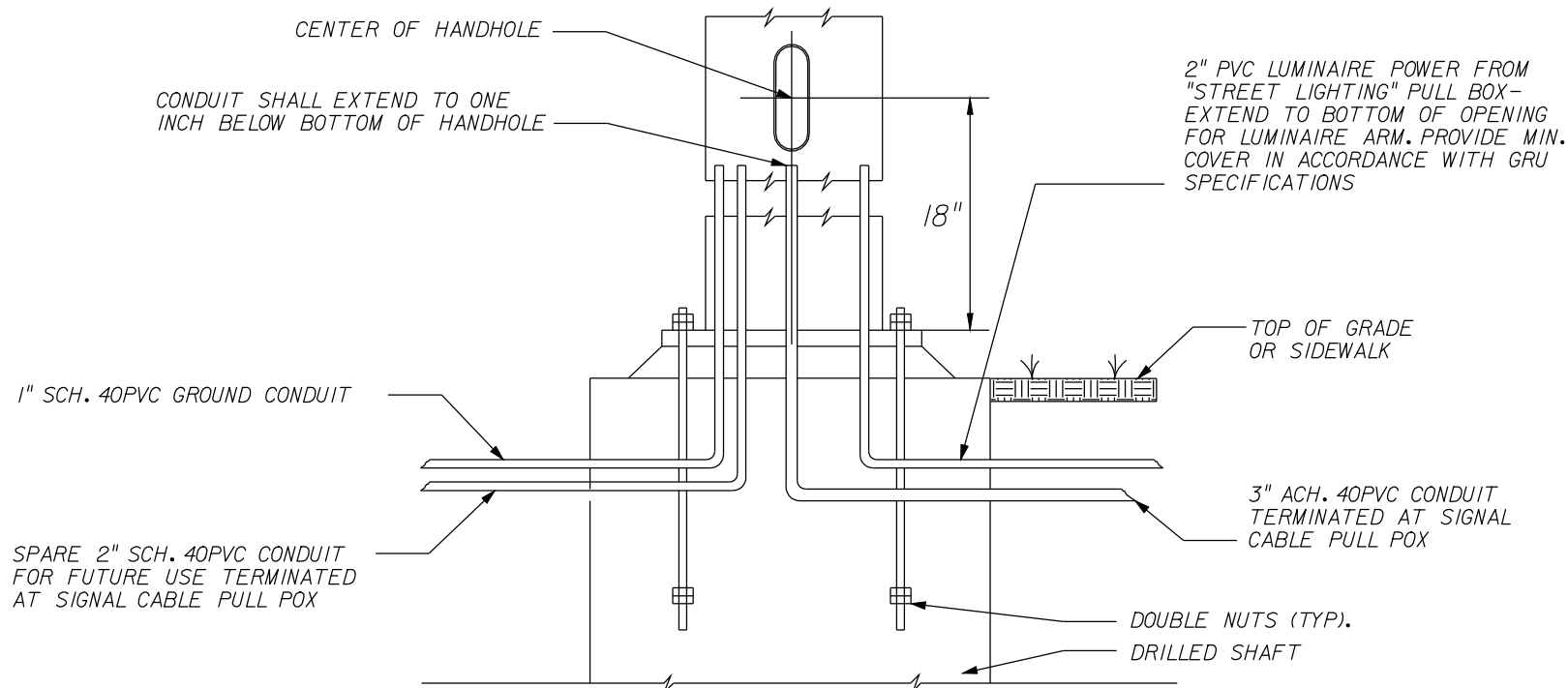


NOTE: ALL COMMUNICATION QUANTITIES ARE INCLUDED IN SHEET T-4. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING THE PROPOSED FIBER OPTIC CABLE SIGNAL INTERCONNECT UNDER THE DIRECTION OF THE PROJECT ENGINEER. THE PROPOSED LOCATION OF THE FIBER OPTIC CABLE SIGNAL INTERCONNECT SHOWN ON THESE PLANS IS PRELIMINARY. 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.

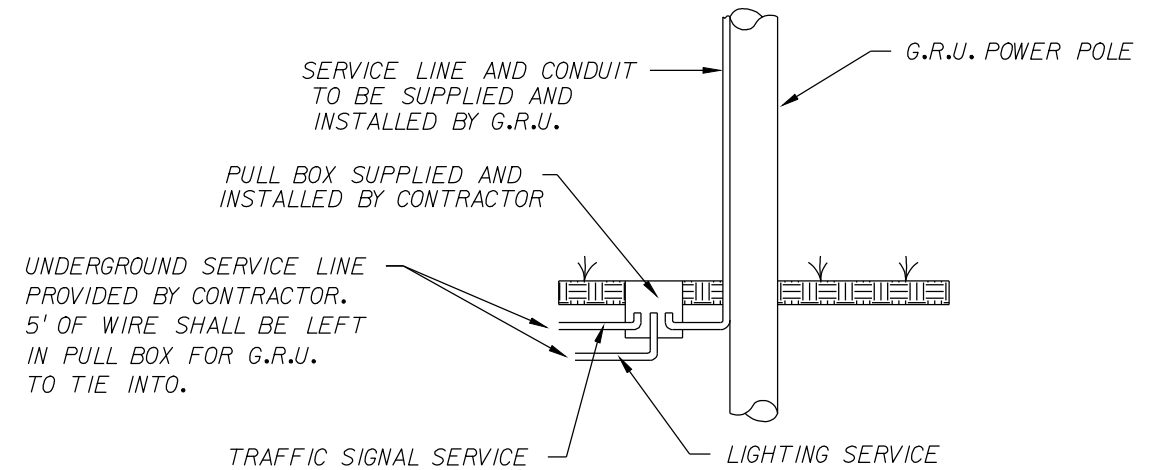
REVISIONS				ENGINEER OF RECORD: STEVEN D. MIKESELL, P.E. FL LIC. No. 58703 HNTB 7077 BONNEVAL ROAD, SUITE 600 LIBERTY CENTER JACKSONVILLE, FLORIDA 32216 PHONE: (904) 296-0207 CA NO.: 6500	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		COMMUNICATION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY		
						ALACHUA	FINANCIAL PROJECT ID 211365-0-03	T-6



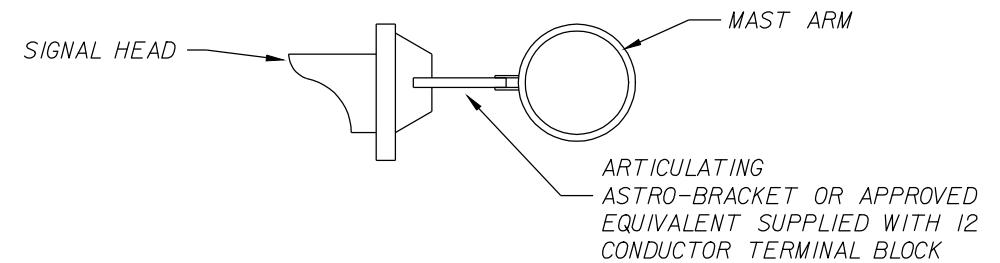
METER / DISCONNECT
FRAME STAND DETAIL
639-1-22
N.T.S.



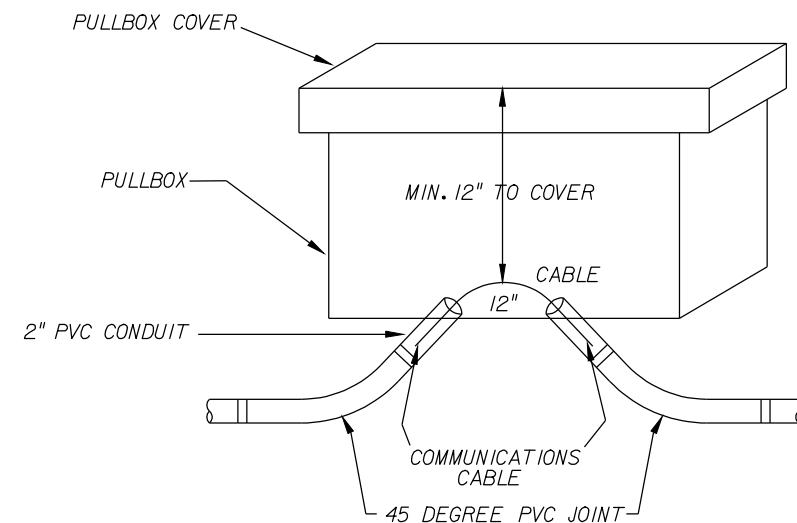
CANTILEVER SIGNAL STRUCTURE
FOUNDATION AND BASE PLATE DETAIL
NOTE: REINFORCEMENT AND WINGS NOT SHOWN
N.T.S.



UNDERGROUND POWER
SERVICE DETAIL
N.T.S.



SIGNAL HEAD BRACKET
ATTACHMENT DETAIL
N.T.S.



COMMUNICATIONS CABLE
CONDUIT INSTALLATION DETAIL

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

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