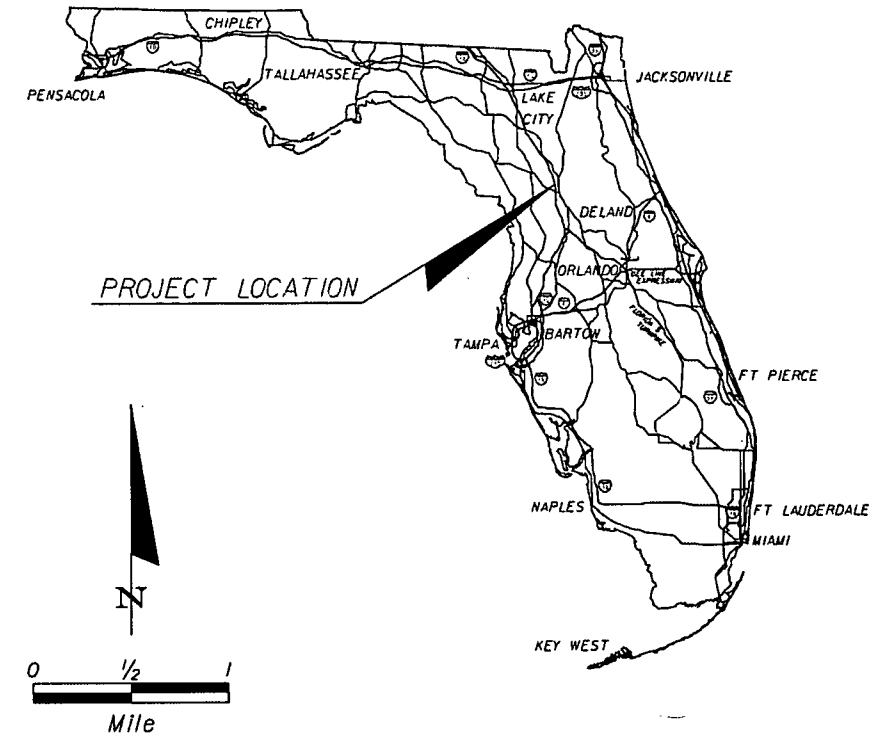


CONTRACTOR'S AS-BUILT PLANS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

FINAL "AS BUILT" PLANS
~~CONTRACT PLANS~~

FINANCIAL PROJECT ID 417005-1-52-01
(FEDERAL FUNDS)
MARION COUNTY (36180)
STATE ROAD NO. 326



INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF PAY ITEMS (NOT USED)
3	TYPICAL SECTIONS
4	SUMMARY OF QUANTITIES AND TCP GENERAL NOTES
5	GENERAL NOTES AND REFERENCE TIES
6-10	PLAN SHEETS
11	INTERSECTION DETAIL:
3A-3D	ROADWAY AS-BUILT PAVEMENT DATA

COMPUTATION BOOK #1

Folder #1 Milling 1 1/2"

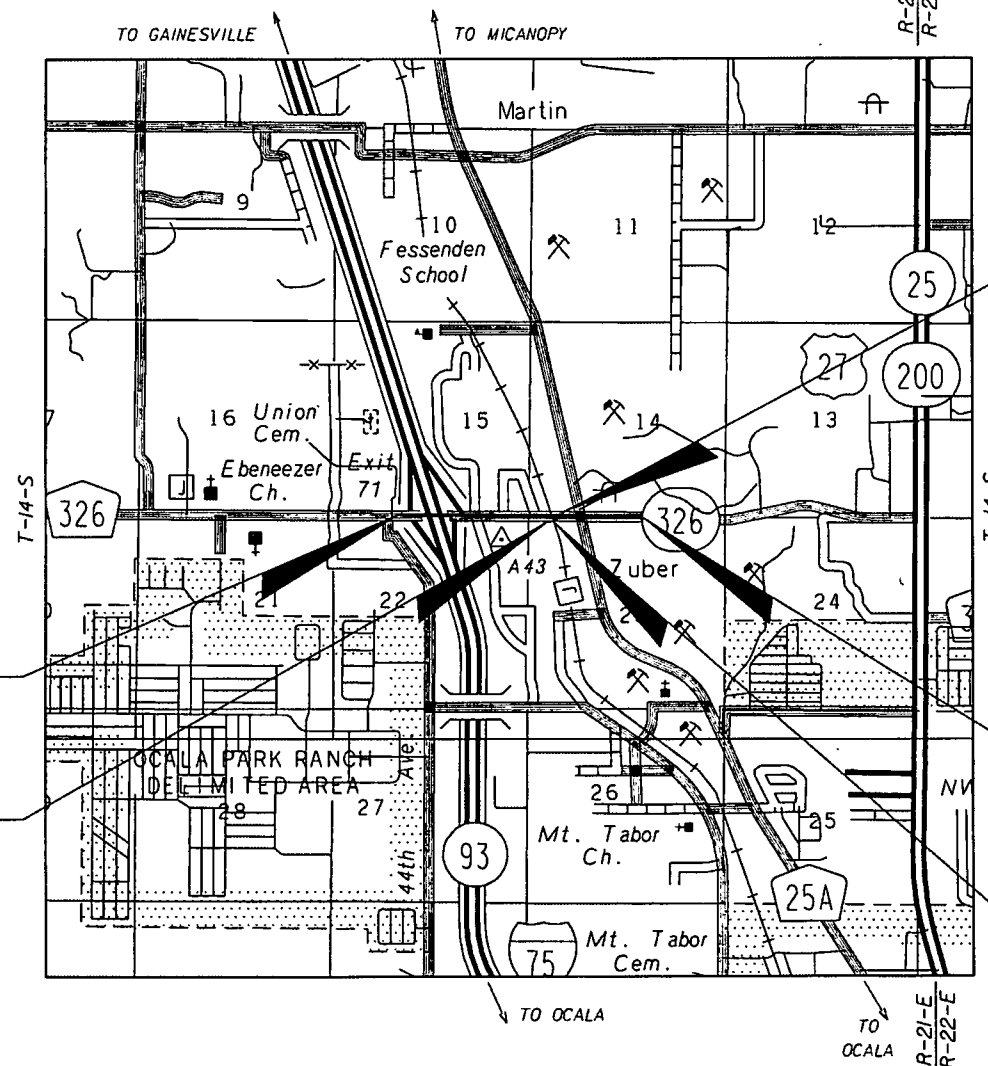
GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2006, AND
STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED 2007,
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 1-1-07
FOR DESIGN STANDARDS MODIFICATIONS CLICK ON
"DESIGN STANDARDS" AT THE FOLLOWING WEB SITE:
<http://www.dot.state.fl.us/rddesign/>

REVISIONS

FINANCIAL PROJECT ID 417005-1-52-01
 △ SIGNALIZATION SHEETS T-2 & T-6 (REVISED 06-27-2008)

Edw E Howard
5-22-09
As-Built Only



LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	6072.27	1.150
BRIDGES	0.00	0.00
NET LENGTH OF PROJECT	6072.27	1.150
EXCEPTIONS	8.46	0.002
GROSS LENGTH OF PROJECT	6080.73	1.152

FDOT PROJECT MANAGER: PETER MERRIS

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:

MARY E. HOLM, P.E.
HNTB CORPORATION
7077 BONNEVAL ROAD,
SUITE 600
JACKSONVILLE, FL 32216

PLANS PREPARED BY:

HNTB

HNTB CORPORATION
7077 BONNEVAL ROAD,
SUITE 600
JACKSONVILLE, FL 32216
PHONE: (904) 296-0207
FAX: (904) 279-0260
CERTIFICATE OF AUTHORIZATION NO: 6500
VENDOR NO: VF-59309436-001
CONTRACT NO: C-7927

NOTE: THE SCALE OF THESE BLANK MAY VARY
HAVE

NAME OF CONTRACTOR: ANDERSON COLUMBIA
NAME OF ALL CONSULTANTS INVOLVED: URS/HNTB
RESIDENT ENGINEER: ED KOROSHETZ
PROJECT ADMINISTRATOR: HUBERT SEVERANCE
DISTRICT SECRETARY: NORRANE DOWNS
DATE WORK STARTED: 15 MAY 2008
DATE CONDITIONALLY ACCEPTED: 8/1/2008
DATE WORK FINAL ACCEPTANCE OR COMPLETED: 8/1/2008

THIS PROJECT WAS CONSTRUCTED IN SUBSTANCIAL COMPLIANCE
WITH THESE PLANS AS PROVIDED BY THE ENGINEER OF RECORD.
IF CHANGES WERE MADE, THESE CHANGES ARE INDICATED
BY BLACK INK REVISION AND BEAR THE SEAL, SIGNATURE
AND DATE OF THE RESPONSIBLE ENGINEER

THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THESE PLANS AS PROVIDED BY THE ENGINEER OF RECORD. THESE PLANS REFLECT "AS-BUILT" CONDITIONS AND NO CHANGES WERE MADE TO THE SHEETS

ROA
ENG

[Signature] 5-22-09

DATE

FISCAL YEAR	SHEET NO.
07	1

COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND 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
2	SUMMARY OF PAY ITEMS (NOT USED)
3	TYPICAL SECTIONS
4	SUMMARY OF QUANTITIES AND TCP GENERAL NOTES
5	GENERAL NOTES AND REFERENCE TIES
6-10	PLAN SHEETS
11	INTERSECTION DETAIL

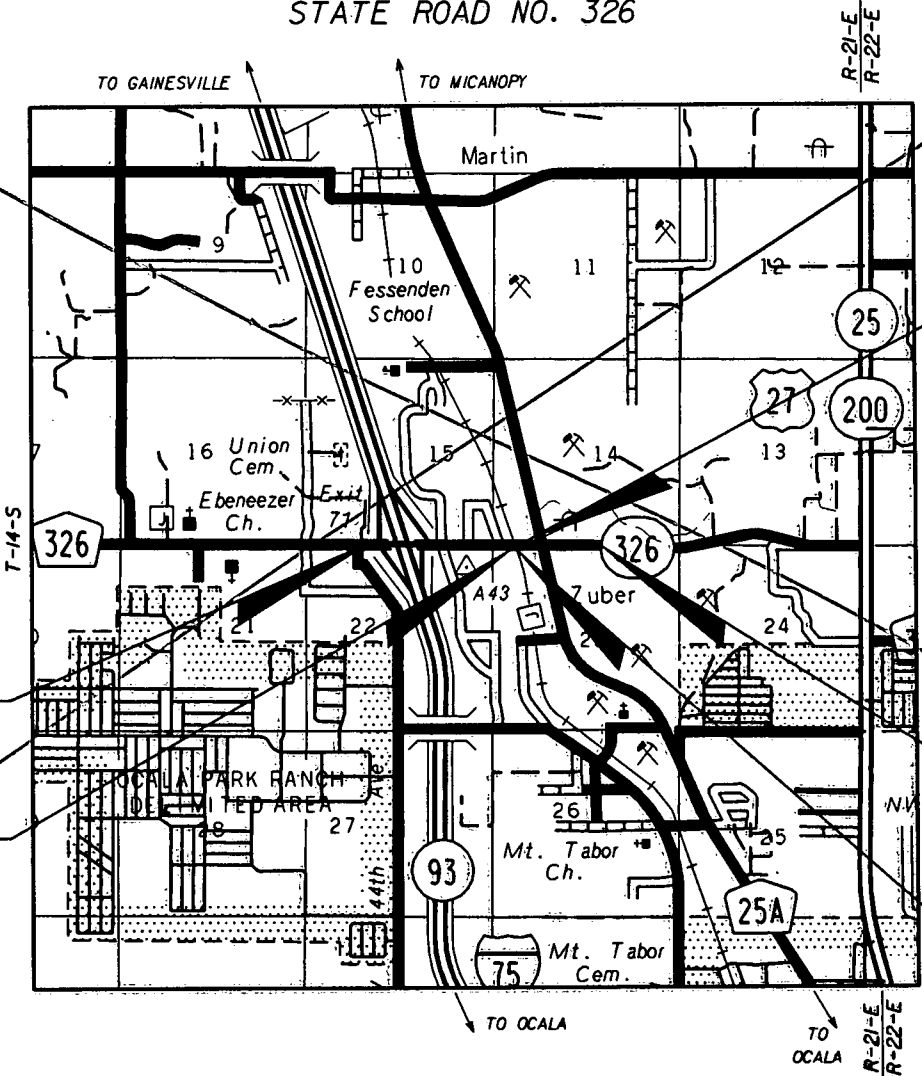
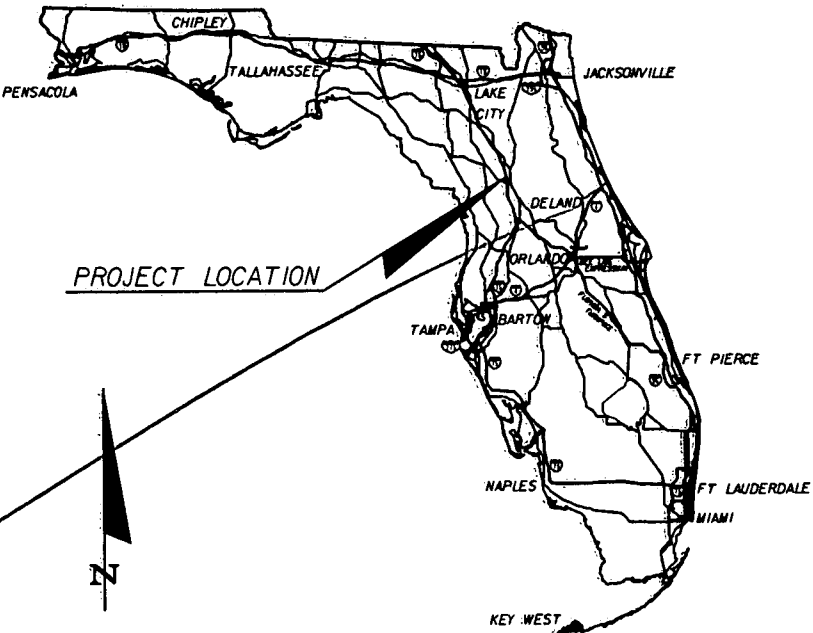
GOVERNING STANDARDS AND SPECIFICATIONS:
FLORIDA DEPARTMENT OF TRANSPORTATION,
DESIGN STANDARDS DATED 2006, AND
STANDARD SPECIFICATIONS FOR ROAD AND
BRIDGE CONSTRUCTION DATED 2007,
AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 1-1-07
FOR DESIGN STANDARDS MODIFICATIONS CLICK ON
"DESIGN STANDARDS" AT THE FOLLOWING WEB SITE:
<http://www.dot.state.fl.us/rddesign/>

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

FINANCIAL PROJECT ID 417005-1-52-01
(FEDERAL FUNDS)
MARION COUNTY (36180)
STATE ROAD NO. 326



END EXCEPTION
STA 722+46.30

END PROJECT
STA 739+00.00

DOT/AAR CROSSING NO. 627142-B
FLORIDA NORTHERN RAILROAD
MP 13.650, STA 722+42.07

ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:
MARY E. HOLM, P.E.
HNTB CORPORATION
7077 BONNEVAL ROAD,
SUITE 600
JACKSONVILLE, FL 32216

PLANS PREPARED BY:
HNTB
HNTB CORPORATION
7077 BONNEVAL ROAD,
SUITE 600
JACKSONVILLE, FL 32216
PHONE: (904) 296-0207
FAX: (904) 279-0260
CERTIFICATE OF AUTHORIZATION NO: 6500
VENDOR NO: VF-593094436-001
CONTRACT NO: C-7927

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

NOTE: THIS PROJECT IS TO BE LET TO CONTRACT WITH:
FINANCIAL PROJECT ID 417182-1-52-01
FINANCIAL PROJECT ID 411563-1-52-01
FINANCIAL PROJECT ID 417194-1-52-01
FINANCIAL PROJECT ID 417160-1-52-01
FINANCIAL PROJECT ID 417162-1-52-01

ROADWAY PLANS
ENGINEER OF RECORD: MARY E. HOLM, P.E.

P.E. NO. 60243

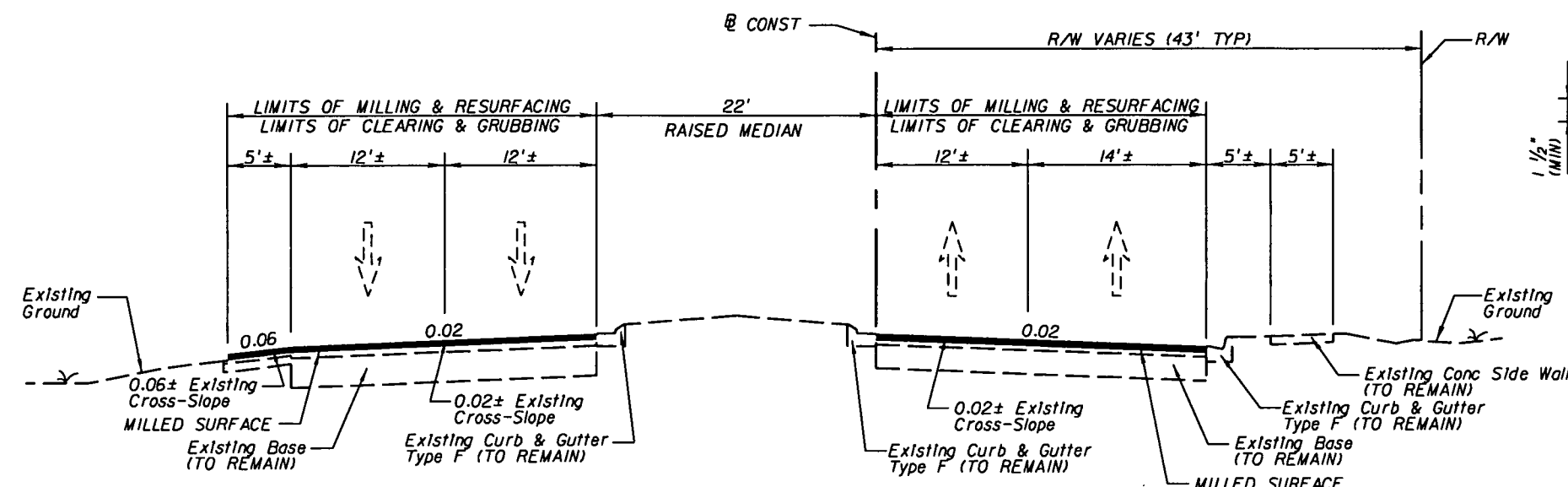
LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	6072.27	1.150
BRIDGES	0.00	0.00
NET LENGTH OF PROJECT	6072.27	1.150
EXCEPTIONS	8.46	0.002
GROSS LENGTH OF PROJECT	6080.73	1.152

FDOT PROJECT MANAGER: PETER MERRIS

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

FISCAL YEAR	SHEET NO.
07	1

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



CURB PAD DETAIL
NTS

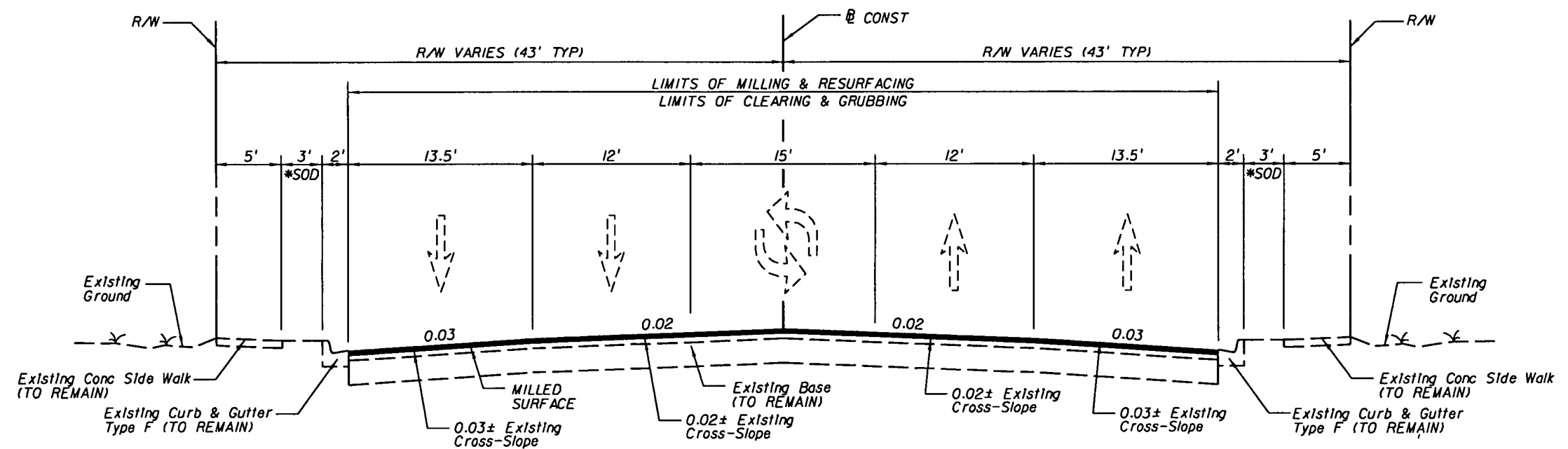
TRAFFIC DATA

CURRENT YEAR	= 2006 AADT = 23,600
ESTIMATED OPENING YEAR	= 2007 AADT = 24,200
ESTIMATED DESIGN YEAR	= 2027 AADT = 35,600
K = 9.59% D = 59.97% T = 14.36% (24 HOUR)	
DESIGN SPEED = 45 MPH	
POSTED SPEED = 45 MPH	

TYPICAL SECTION ①
SR 326
STA 678+19.27 TO STA 695+30.16

MILLING
MILL EXISTING ASPHALT PAVEMENT (1 1/2" AVG DEPTH)

RESURFACING
FRICTION COURSE FC-12.5 (1 1/2") (GRANITE)



* FOR SODDING LIMITS
REFER TO PLANS

TRAFFIC DATA

CURRENT YEAR	= 2006 AADT = 23,600
ESTIMATED OPENING YEAR	= 2007 AADT = 24,200
ESTIMATED DESIGN YEAR	= 2027 AADT = 35,600
K = 9.59% D = 59.97% T = 14.36% (24 HOUR)	
DESIGN SPEED = 45 MPH	
POSTED SPEED = 45 MPH	

TYPICAL SECTION ②
SR 326
STA 695+30.16 TO STA 739+00.00

MILLING
MILL EXISTING ASPHALT PAVEMENT (1 1/2" AVG DEPTH)

RESURFACING
FRICTION COURSE FC-12.5 (1 1/2") (GRANITE)

REVISIONS						HNTB HNTB CORPORATION 7071 BONNEVAL ROAD, SUITE 600 JACKSONVILLE, FL 32216 (904) 296-0207 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: MARY E. HOLM, PE FL REGISTRATION NO. 60243	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TYPICAL SECTIONS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		3
							326	MARION	417005-1-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6815-23.003, F.A.C.

Roadway - As-Built Pavement Data (LIMS)		
Date <u>8-19-08</u> Page No. <u> </u> of <u> </u>		LIMS ID <u>800124823</u>
Project ID: <u>41700515201</u>	Pay Item No.: <u>337 7 6</u>	Material ID: <u>PROABS</u>
Sample Level: <u>V</u>	Manfr or Prod: <u>ANDERSON COLUMBIA</u>	Date Sampled: <u>8-4-08</u>
Dest. LabID: <u>E05027</u>	Sample No.: <u>0012V</u>	Sampled By: <u>S34351861-000</u>
Sta. From: <u>671+19</u>	Sta. To: <u>739+00</u>	Plant No.: <u>A0706</u>
Design Mix No.: <u>SP07-5436A</u>	Lane: <u>R1</u>	

Pavement Information (Enter Only New Pavement Layers - Start With First Pavement Layer Placed)					
Milling Depth	Layer Number	Subgrade (if new)	Base (if new)	1	2
	Layer Code			<u>F2125</u>	
<u>1.5</u>	Approx. Thickness in./mm			<u>1.5</u>	

Layer Number	3	4	5	6	7
Layer Code					
Approx. Thickness in./mm					

Remarks:

[Signature]
RESIDENT ENGINEER
DATE 5-22-09

THIS PROJECT WAS CONSTRUCTED IN SUBSTANCIAL COMPLIANCE WITH THESE PLANS AS PROVIDED BY THE ENGINEER OF RECORD. IF CHANGES WERE MADE, THESE CHANGES ARE INDICATED BY BLACK INK REVISION AND BEAR THE SEAL, SIGNATURE AND DATE OF THE RESPONSIBLE ENGINEER

[Signature]
As-Built Only
5-22-09

Roadway - As-Built Pavement Data (LIMS)		
Date 8-19-08 Page No. of		LIMS ID 800124822
Project ID.: 41700515201	Pay Item No.: 337 7 6	Material ID.: PROABS
Sample Level: V	Manfr or Prod: ANDERSON COLUMBIA	Date Sampled: 8-4-08
Dest. LabID: E05027	Sample No.: 0011V	Sampled By: S34351861-000
Sta. From: 671+19	Sta. To: 739+00	Plant No.: A0706
Design Mix No.: SP07-5436A	Lane: L2	

Pavement Information					
(Enter Only New Pavement Layers - Start With First Pavement Layer Placed)					
Milling Depth	Layer Number	Subgrade (if new)	Base (if new)	1	2
	Layer Code			FC125	
1.5	Approx. Thickness in./mm			1.5	

Layer Number	3	4	5	6	7
Layer Code					
Approx. Thickness in./mm					

Remarks:

RESIDENT ENGINEER [Signature] DATE 5-22-09

THIS PROJECT WAS CONSTRUCTED IN SUBSTANCIAL COMPLIANCE WITH THESE PLANS AS PROVIDED BY THE ENGINEER OF RECORD. IF CHANGES WERE MADE, THESE CHANGES ARE INDICATED BY BLACK INK REVISION AND BEAR THE SEAL, SIGNATURE AND DATE OF THE RESPONSIBLE ENGINEER

As-Built Only
5-22-09
[Signature]

Roadway - As-Built Pavement Data (LIMS)		
Date 8-19-08 Page No. of		LIMS ID 800124821
Project ID.: 41700515201	Pay Item No.: 337 7 6	Material ID.: PROABS
Sample Level: V	Manfr or Prod: ANDERSON COLUMBIA	Date Sampled: 8-4-08
Dest. LabID: E05027	Sample No.: 0010V	Sampled By: S34351861-000
Sta. From: 671+19	Sta. To: 739+00	Plant No.: A0706
Design Mix No.: SP07-5436A	Lane: 21	

Pavement Information (Enter Only New Pavement Layers - Start With First Pavement Layer Placed)					
Milling Depth	Layer Number	Subgrade (if new)	Base (if new)	1	2
	Layer Code			FC125	
1.5	Approx. Thickness in./mm			1.5	

Layer Number	3	4	5	6	7
Layer Code					
Approx. Thickness in./mm					

Remarks:

Edna Blum
RESIDENT ENGINEER
5-22-09
DATE

THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THESE PLANS AS PROVIDED BY THE ENGINEER OF RECORD. IF CHANGES WERE MADE, THESE CHANGES ARE INDICATED BY BLACK INK REVISION AND BEAR THE SEAL, SIGNATURE AND DATE OF THE RESPONSIBLE ENGINEER

Edna Blum
5-22-09
RESIDENT ENGINEER

Roadway - As-Built Pavement Data (LIMS)		
Date 8-19-08 Page No. of		LIMS ID 800124825
Project ID.: 41700515201	Pay Item No.: 337 7 6	Material ID.: PROABS
Sample Level: V	Manfr or Prod: ANDERSON COLUMBIA	Date Sampled: 8-4-08
Dest. LabID: E05027	Sample No.: 0009V	Sampled By: S34351861-000
Sta. From: 671+19	Sta. To: 739+00	Plant No.: A0706
Design Mix No.: SP07-5436A	Lane: R2	

Pavement Information (Enter Only New Pavement Layers - Start With First Pavement Layer Placed)					
Milling Depth	Layer Number	Subgrade (if new)	Base (if new)	1	2
	Layer Code			FC125	
1.5	Approx. Thickness in./mm			1.5	

Layer Number	3	4	5	6	7
Layer Code					
Approx. Thickness in./mm					

Remarks:

8/20/08
RESIDENT ENGINEER

5-22-09
DATE

THIS PROJECT WAS CONSTRUCTED IN SUBSTANCIAL COMPLIANCE WITH THESE PLANS AS PROVIDED BY THE ENGINEER OF RECORD. IF CHANGES WERE MADE, THESE CHANGES ARE INDICATED BY BLACK INK REVISION AND BEAR THE SEAL, SIGNATURE AND DATE OF THE RESPONSIBLE ENGINEER

8/20/08
As-Built
5-22-09
DMS

SUMMARY OF SODDING

LOCATION	SIDE	P			F			FIELD BOOK REFERENCE
STA. TO STA.		L	W	SY	L	W	SY	
678+25 TO 678+60	RT	41'	2'	9.1	41	2	9.1	
679+60 TO 679+93	RT	28'	2'	6.2	28	2	6.2	
705+58 TO 705+67	RT	11'	2'	2.4	11	2	2.4	
706+02 TO 706+13	RT	11'	2'	2.4	11	2	2.4	
729+16 TO 729+67	LT	50'	2'	11.1	50	2	11.1	
729+63 TO 730+15	RT	57'	2'	12.7	57	2	12.7	
730+33 TO 730+88	LT	61'	2'	13.6	61	2	13.6	
730+70 TO 731+08	RT	49'	2'	10.9	49	2	10.9	
TOTAL				68.4			68.4	LEAFED INSTALLED

PAY ITEM NOTES:

102-1 COST OF FLAGMAN TO PAID FOR UNDER THIS PAY ITEM.

110-1-1 CLEARING AND GRUBBING PAY ITEM INCLUDES THE REMOVAL OF CURB, CURB & GUTTER AND SIDEWALK.

337-7-6 REFER TO THE DEVELOPMENTAL SPECIFICATIONS FOR GRANITE USE CONCERNING FRICTION COURSE FC-12.5.

520-1-10 CURB & GUTTER TYPE F INCLUDES PAD CONSTRUCTION.

570-1-2 INCLUDES THE COST OF MOWING 2.4 ACRES OF EXISTING TURF BASED UPON A 30 DAY MOWING CYCLE.

TRAFFIC CONTROL GENERAL NOTES:

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT DESIGN STANDARDS, INDEX 600 SERIES.
2. ONLY ONE LANE MAY ONLY BE CLOSED DURING ACTIVE WORK PERIODS. DUE TO THE HIGH LEVEL TRUCK TRAFFIC ALONG THIS CORRIDOR ONLY NIGHT TIME LANE CLOSURES WILL BE PERMITTED FROM 7PM TO 6AM.
3. THE EXISTING POSTED SPEED LIMIT OF 45 MPH SHALL BE MAINTAINED THROUGH ALL PHASES OF CONSTRUCTION.
4. THE CONTRACTOR SHALL UTILIZE SHOULDER TREATMENT TO MITIGATE DROP OFF CONDITIONS THAT EXIST AT THE END OF EACH WORK PERIOD IF APPLICABLE.
5. A CHANGEABLE VARIABLE MESSAGE SIGN IS TO BE PLACED AT THE BEGINNING AND END OF PROJECT LIMITS. MESSAGE DISPLAYS ARE TO BE AS FOLLOWS:

CAUTION
CAUTION
CAUTION

DISPLAY

**ROAD
WORK
AHEAD**

DISPLAY 2

SUMMARY OF EROSION CONTROL

STATION	SIDE	ROCK BAGS (EA)	HAY BALES (EA)	SILT FENCE (LF)	REMARKS
678+83	RT			20	EXIST INLET
680+78	RT	20 ✓			EXIST INLET
682+51	RT	20 ✓			EXIST INLET
683+43	RT	20 ✓			EXIST INLET
685+73	RT	20 ✓			EXIST INLET
688+20	RT	20 ✓			EXIST INLET
689+85	RT	20 ✓			EXIST INLET
690+10	RT	20 ✓			EXIST INLET
690+10	LT	20 ✓			EXIST INLET
692+10	RT	20 ✓			EXIST INLET
692+10	LT	20 ✓			EXIST INLET
692.81	LT	20 ✓			EXIST INLET
695+00	LT	20 ✓			EXIST INLET
695+32	RT	20 ✓			EXIST INLET
696+20	LT	20 ✓			EXIST INLET
696+20	RT	20 ✓			EXIST INLET
699+00	LT	20 ✓			EXIST INLET
699+00	RT	20 ✓			EXIST INLET
701+00	LT	20 ✓			EXIST INLET
701+00	RT			20 0	EXIST INLET
702+49	LT	20 ✓			EXIST INLET
702+66	RT	20 ✓			EXIST INLET
704+01	LT	20 ✓			EXIST INLET
704+19	RT	20 ✓			EXIST INLET
706+50	LT	20 ✓			EXIST INLET
706+50	RT	20 ✓			EXIST INLET
708+31	RT	20 ✓			EXIST INLET
708+49	LT	20 ✓			EXIST INLET
709+65	LT			20 0	EXIST INLET
709+65	RT	20 ✓			EXIST INLET
711+50	LT	20 ✓			EXIST INLET
711+50	RT	20 ✓			EXIST INLET
713+45	LT	20 ✓			EXIST INLET
713+45	RT	20 ✓			EXIST INLET
714+50	LT	20 ✓			EXIST INLET
714+50	RT	20 ✓			EXIST INLET
716+20	LT	20 ✓			EXIST INLET
716+20	RT	20 ✓			EXIST INLET
TOTAL		700	PER PLAN	20 0	NOT NEEDED OR USED

* 8 LF SILT FENCE TO BE CUT INTO TWO 4' SEGMENTS AND SEWN INTO A SINGLE 4' x 4' SHEET IN ACCORDANCE WITH INDEX 199. SILT FENCE TO BE LAID ACROSS DITCH BOTTOM INLET TOP AND SECURED BETWEEN INLET GRATE AND GRATE SEAT.

REVISIONS						HNTB HNTB CORPORATION 7077 BONNEVAL ROAD, SUITE 600 JACKSONVILLE, FL 32216 (904) 296-0207 CERT. OF AUTH. NO. 6500	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SUMMARY OF QUANTITIES AND TCP GENERAL NOTES	SHEET NO. 4
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							326	MARION	417005-1-52-01		

GENERAL NOTES:

1. NO VERTICAL DATUM WAS PROVIDED FOR THIS PROJECT.
2. EXISTING DRAINAGE STRUCTURES SHALL REMAIN UNLESS OTHERWISE NOTED.
3. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE ENGINEER SHOULD NOTIFY THE DISTRICT LOCATION SURVEYOR, WITHOUT DELAY, BY TELEPHONE.
4. MILLING DUST OR DEBRIS SHALL NOT BE DEPOSITED ON PVIOUS SURFACES.
5. THE LOCATIONS OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED W_v, V_h AND W_h) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.
6. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS THROUGH SUNSHINE ONE CALL OF FLORIDA, INC. (1-800-432-4770) AND UTILITY OWNERS LISTED BELOW 2 WORKING DAYS IN ADVANCE OF BEGINNING CONSTRUCTION ON THE JOB SITE. IT HAS BEEN DETERMINED THAT NO RELOCATION IS ANTICIPATED FOR THIS PROJECT:

UTILITIES AGENCY OWNER

PROGRESS ENERGY
MARION COUNTY UTILITIES
QWEST COMMUNICATIONS
SPRINT
PEOPLES GAS

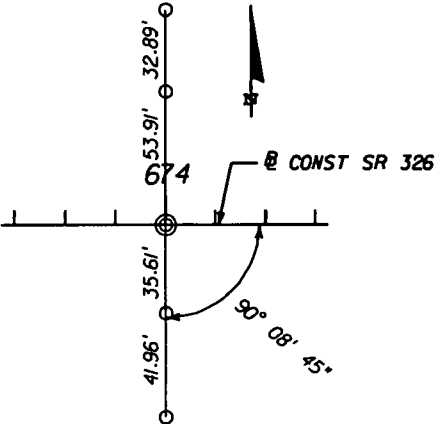
TELEPHONE NUMBER

352-694-8531
352-671-8531
303-837-3926
352-368-8763
813-228-4111

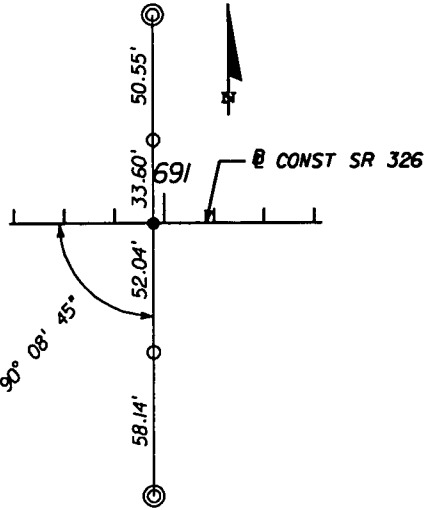
7. THE CONTRACTOR SHALL REMOVE BURIED OUT OF SERVICE UTILITY FACILITIES WITHIN THE LIMITS OF ALL EXCAVATION. THE COST OF THIS WORK SHALL BE INCIDENTAL TO AND INCLUDED IN THE COST OF THE WORK BEING PERFORMED WHEN THE LINES ARE ENCOUNTERED.
8. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
9. ALL EXISTING TOPOGRAPHIC FEATURES ON THESE PLANS WERE RECREATED FROM THE AS-BUILT PLANS FOR STATE PROJECT NUMBER 36180-3507 SUBMITTED TO FDOT ON JAN. 5, 1996. AS BUILT REVISIONS MADE ON JUNE 3, 1999. THE ACCURACY OF THE EXISTING TOPOGRAPHIC FEATURES, AND ANY PROPOSED FEATURES DERIVED FROM EXISTING CONDITIONS, SUCH AS SIDEWALK RAMPS AND MILLING LIMITS IS SOLELY DEPENDENT ON THE ACCURACY OF THE AS BUILT PLANS PROVIDED TO THE ENGINEER.
10. THE CONTRACTOR SHALL NOT ENTER RAILROAD RIGHT-OF-WAY WITHOUT FIRST NOTIFYING THE RAILROAD AT LEAST 72 HOURS IN ADVANCE. THE CONTRACTOR SHALL TELEPHONE THE RAILROAD AT (407) 880-8500 AND SEND AN E-MAIL TO jrob@ferr.com. THE RAILROAD WILL ISSUE A "STOP & FLAG ORDER" TO THE TRAIN CREW.
11. THE CONTRACTOR MUST IDENTIFY THE WORK AS A FLORIDA DEPARTMENT OF TRANSPORTATION PROJECT WHEN REQUESTING RAILROAD WATCHMAN/FLAGGING SERVICES FROM FLORIDA CENTRAL RAILROAD OR FLORIDA NORTHERN RAILROAD.
12. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR ANY DELAY OF TRAIN PENALTIES IMPOSED BY THE RAILROAD. BILLS FOR SUCH PENALTIES RECEIVED BY THE DEPARTMENT WILL BE SENT TO THE CONTRACTOR FOR PAYMENT. IF THE CONTRACTOR FAILS TO PAY ANY SUCH PENALTIES, THE DEPARTMENT MAY DEDUCT THE AMOUNT THEREOF FROM PAYMENTS MADE TO THE CONTRACTOR.

LEGEND:

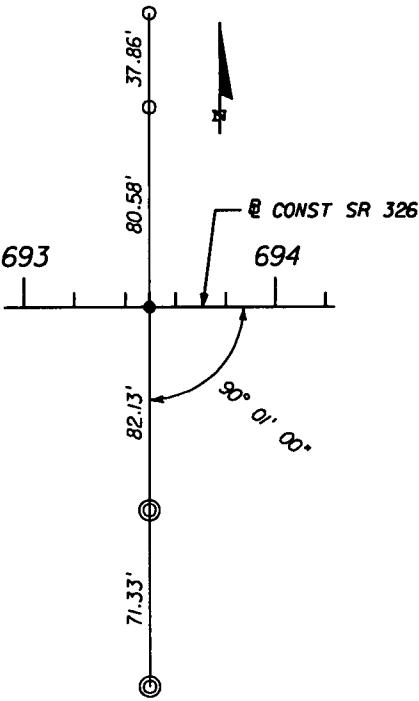
- IRON ROD W/ DOT CAP
- ⊙ NAIL & DISK
- STAMPED PLATE



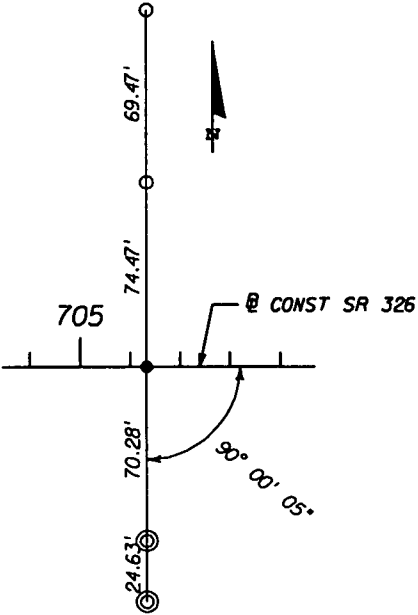
STA 674+00.00



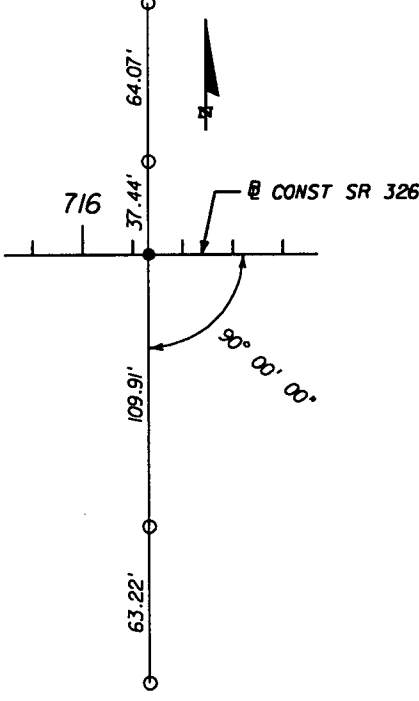
PI STA 690+95.43



PI STA 694+50.65



STA 705+26.43



STA 716+26.58

REVISIONS						HNTB HNTB CORPORATION 7077 BONNEVAL ROAD, SUITE 600 JACKSONVILLE, FL 32216 (904) 296-0207 CERT. OF AUTH. NO. 6500	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES AND REFERENCE TIES	SHEET NO. 5
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							326	MARION	417005-1-52-01		

ENGINEER OF RECORD: MARY E. HOLM, PE
FL REGISTRATION NO. 60243

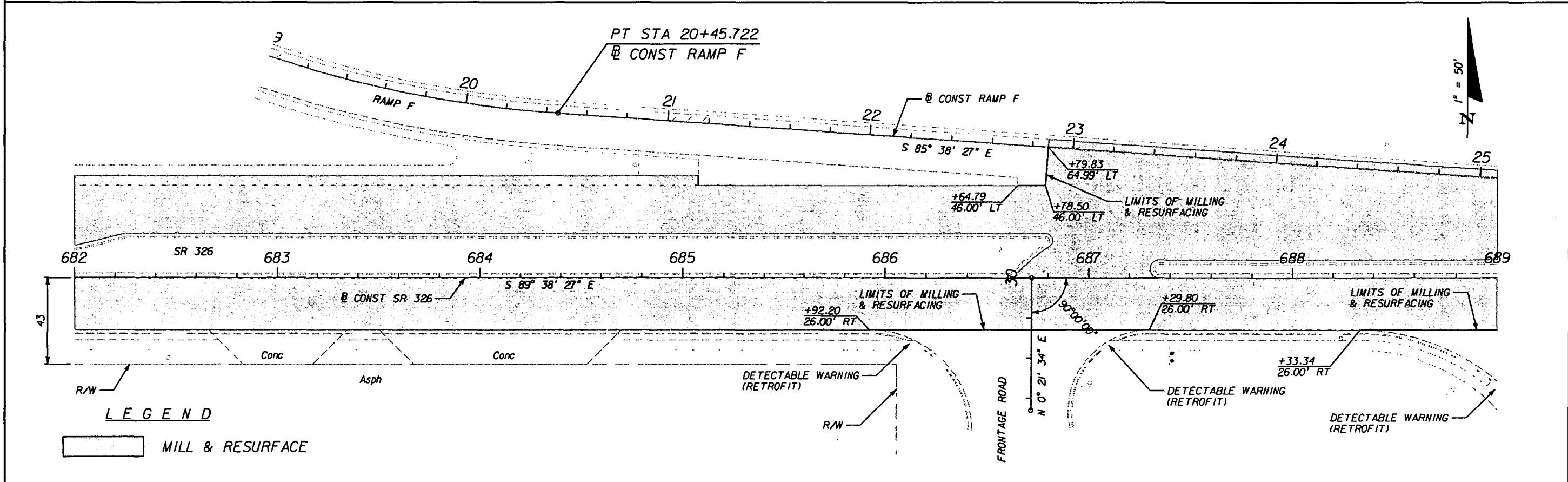
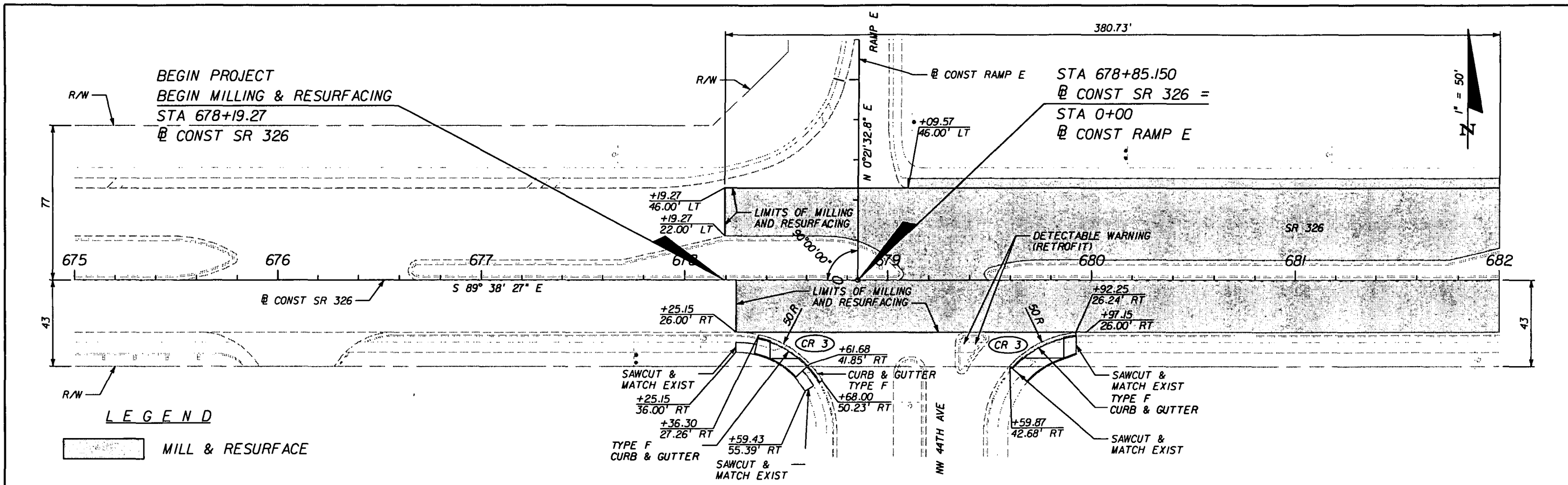
wum/tauf

12/8/2006

2:09:59 PM

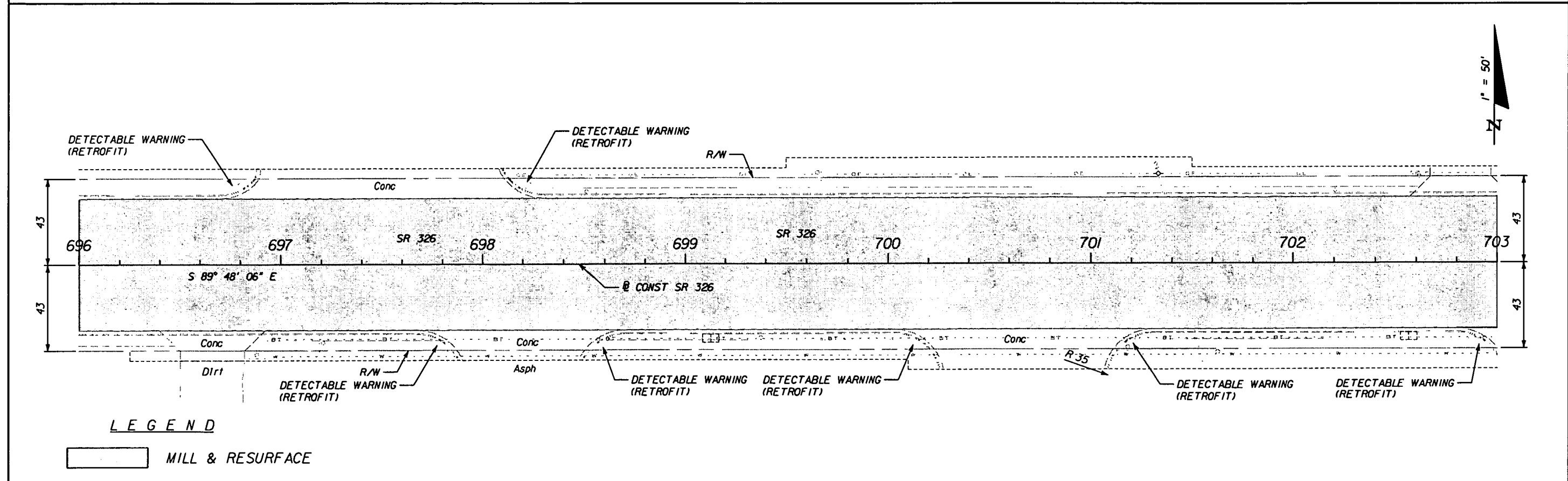
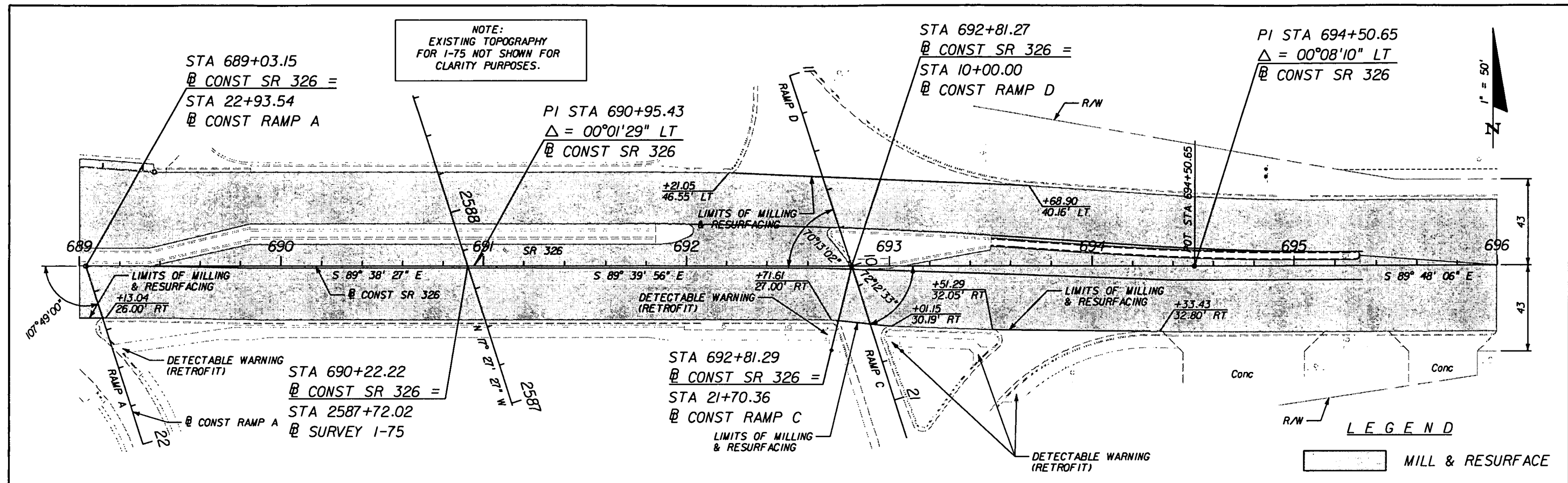
W:\Jobs\410491.012\PRODUCTION_SUBMITTAL\41700515201\roadway\gnrt rd01.dgn

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6B15-23.003, F.A.C.

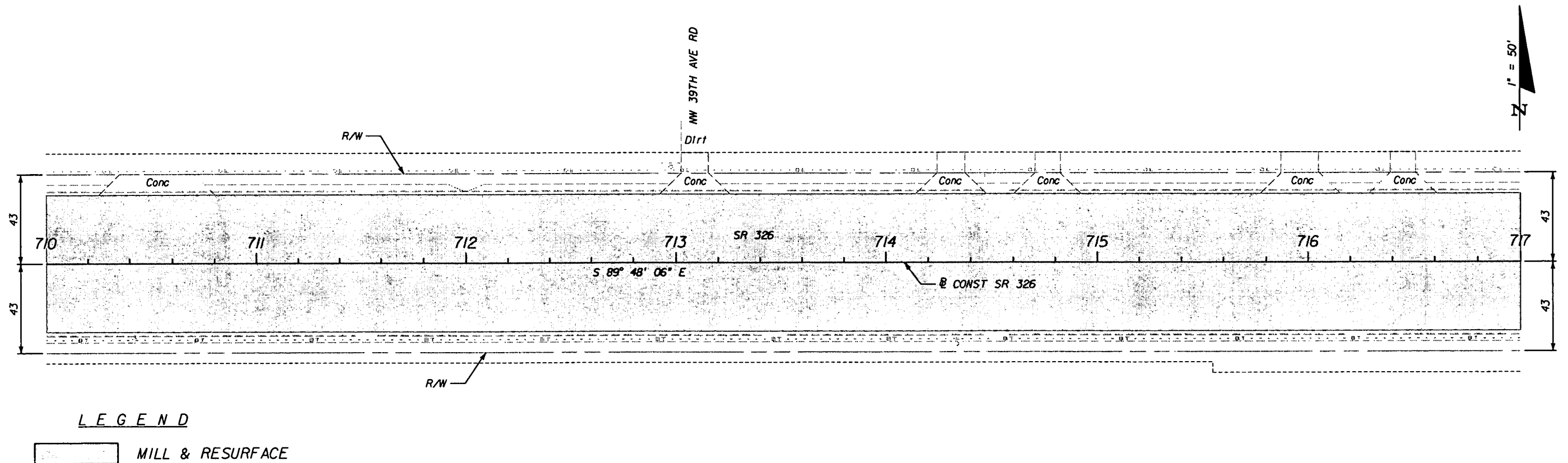
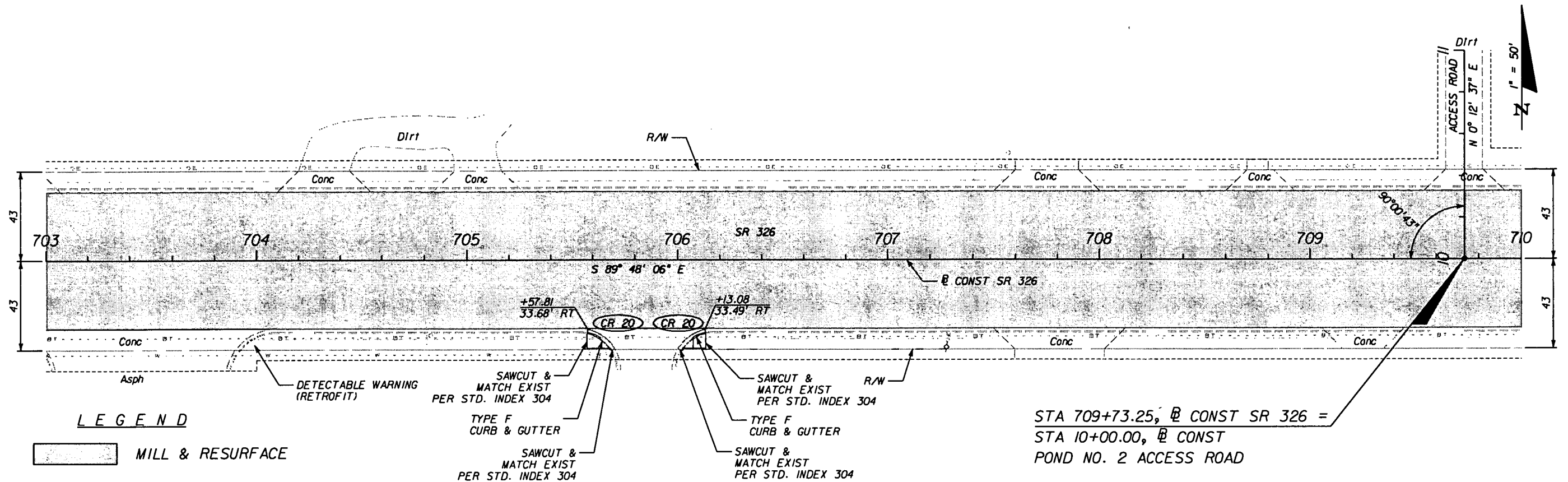


REVISIONS						HNTB	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN SHEET	SHEET NO. 6
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							326	MARION	417005-1-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

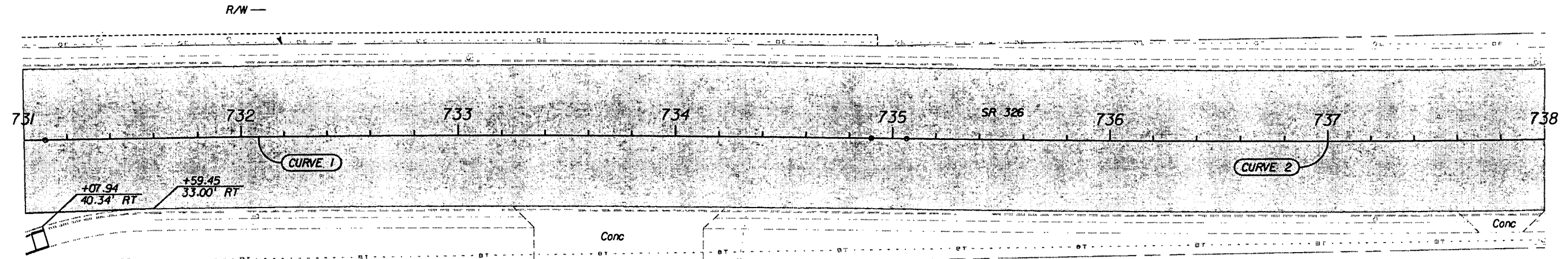


REVISIONS						HNTB HNTB CORPORATION 7077 BONNEVAL ROAD, SUITE 600 JACKSONVILLE, FL 32216 (904) 296-0207 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: MARY E. HOLM, PE FL REGISTRATION NO. 60243	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN SHEET	SHEET NO. 7
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							326	MARION	417005-1-52-01		



REVISIONS						HNTB HNTB CORPORATION 7077 BONNEVAL ROAD, SUITE 600 JACKSONVILLE, FL 32216 (904) 296-0207 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: MARY E. HOLM, PE FL REGISTRATION NO. 60243	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN SHEET	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		8
							326	MARION	417005-1-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6005-23.003, F.A.C.

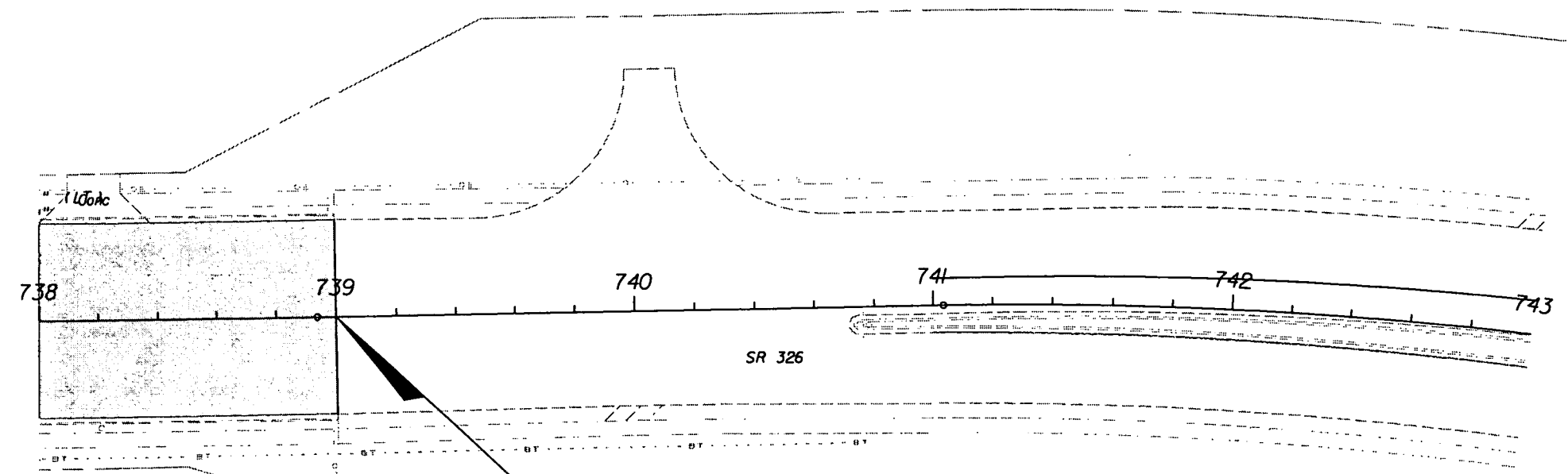


CURVE 1
 PI STA 733+00.09
 $\Delta = 1^\circ 54' 02''$
 $D = 0^\circ 30' 00''$
 $T = 190.06'$
 $L = 380.09'$
 $R = 11459.16'$
 $e = NC$
 PC STA 731+10.02
 PT STA 734+90.11

CURVE 2
 PI STA 737+00.18
 $\Delta = 1^\circ 56' 09''$
 $D = 0^\circ 30' 00''$
 $T = 193.60'$
 $L = 387.16'$
 $R = 11459.16'$
 $e = NC$
 PC STA 735+06.58
 PT STA 738+93.74

LEGEND

MILL & RESURFACE



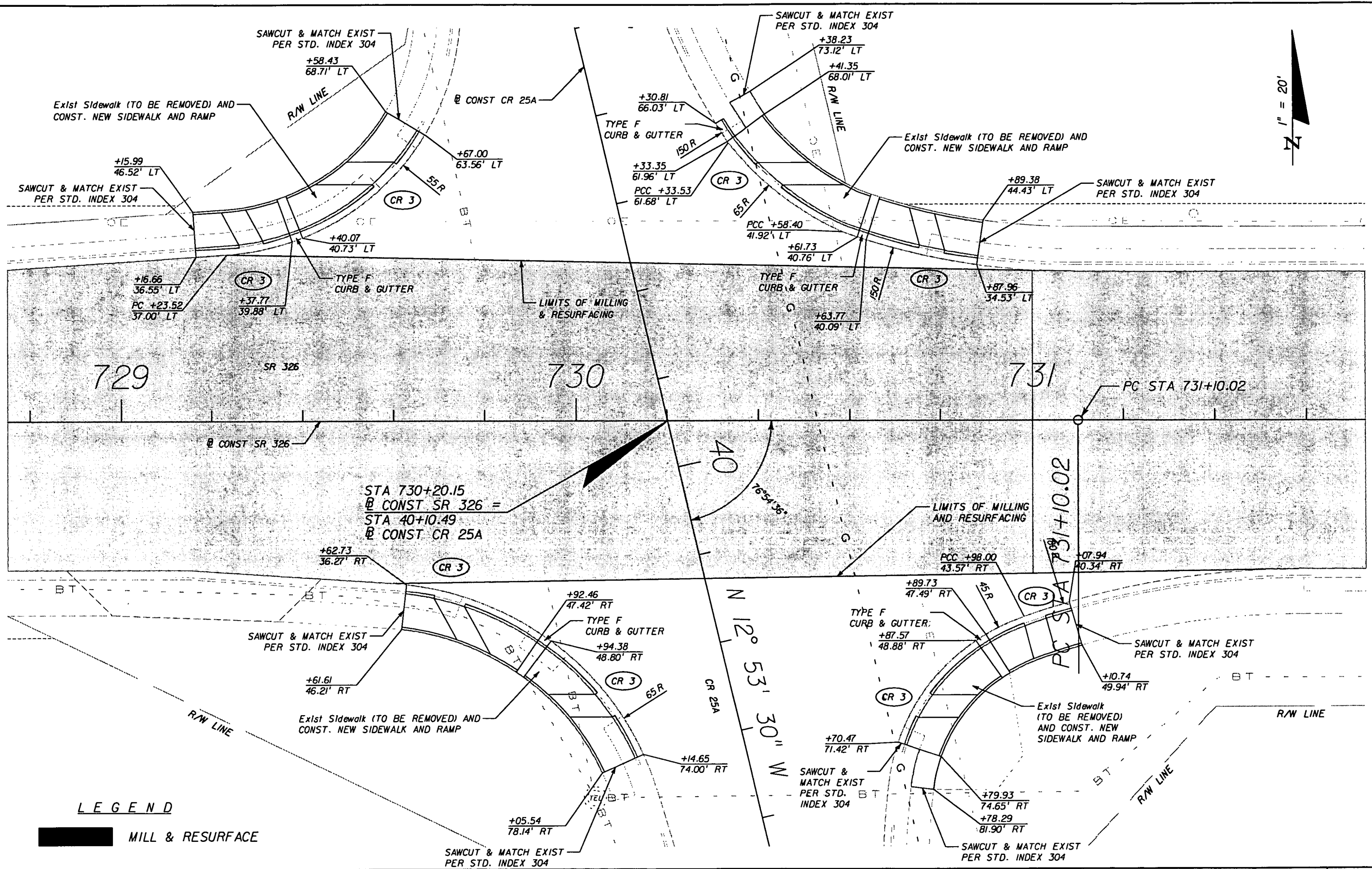
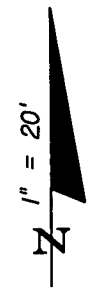
LEGEND

MILL & RESURFACE

END PROJECT
 END MILLING AND RESURFACING
 STA 739+00.00, @ CONST SR 326

REVISIONS						HNTB HNTB CORPORATION 1077 BONNEVAL ROAD, SUITE 600 JACKSONVILLE, FL 32216 (904) 296-0207 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: MARY E. HOLM, PE FL REGISTRATION NO. 60243	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PLAN SHEET	SHEET NO. 10
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							326	MARION	417005-1-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G05-23.003, F.A.C.



LEGEND

MILL & RESURFACE

REVISIONS						HNTB HNTB CORPORATION 7077 BONNEVAL ROAD, SUITE 600 JACKSONVILLE, FL 32216 (904) 296-0207 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: MARY E. HOLM, PE FL REGISTRATION NO. 60243	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			INTERSECTION DETAILS	SHEET NO. 11
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							326	MARION	417005-1-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6095-23.003, F.A.C.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
FINAL "AS BUILT" PLANS
CONTRACT PLANS

FINANCIAL PROJECT ID 417005-1-52-01
(FEDERAL FUNDS)
MARION COUNTY (36180)
STATE ROAD NO. 326

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 SHEETS

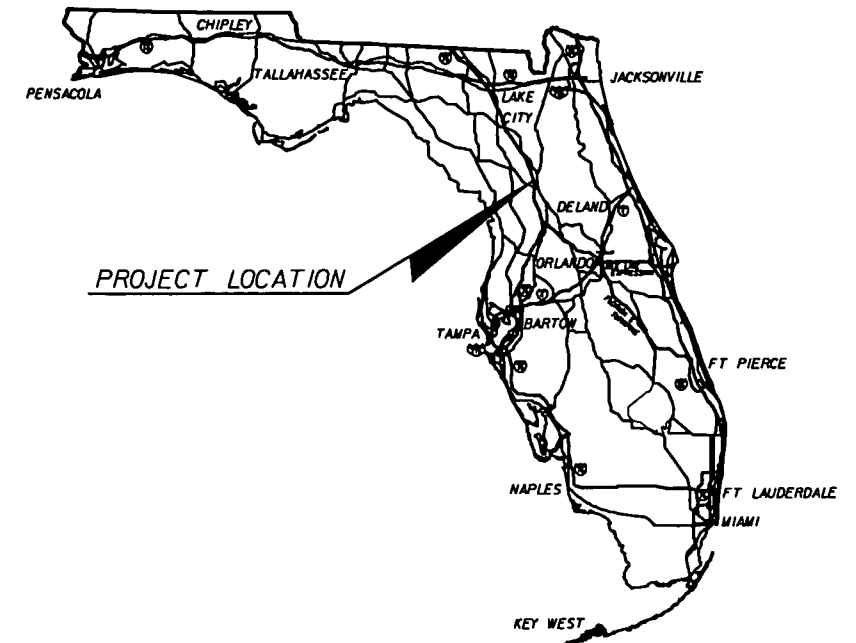
THIS PROJECT WAS CONSTRUCTED IN SUBSTANCIAL COMPLIANCE WITH THESE PLANS AS PROVIDED BY THE ENGINEER OF RECORD. IF CHANGES WERE MADE, THESE CHANGES ARE INDICATED BY BLACK INK REVISION AND BEAR THE SEAL, SIGNATURE AND DATE OF THE RESPONSIBLE ENGINEER

Edu E. Holm
RESIDENT ENGINEER
5-22-09
DATE

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

Edu E. Holm
5-22-09
As-Built Only

SIGNING AND PAVEMENT MARKING PLANS



SIGNING AND PAVEMENT MARKING SHOP DRAWINGS
TO BE SUBMITTED TO:

MARY E. HOLM, P.E.
HNTB CORPORATION
7077 BONNEVAL ROAD
SUITE 600
JACKSONVILLE, FL 32216

PLANS PREPARED BY:

HNTB

HNTB CORPORATION
7077 BONNEVAL ROAD
SUITE 600
JACKSONVILLE, FL 32216
PHONE: (904) 296-0207
FAX: (904) 2790260
CERTIFICATE OF AUTHORIZATION NO: 6500
VENDOR NO: VF-593094436-001
CONTRACT NO: C-7927

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

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

SIGNING AND PAVEMENT
MARKING PLANS
ENGINEER OF RECORD: MARY E. HOLM, P.E.

P.E. NO.: 60243

FISCAL YEAR	SHEET NO.
07	S-1

FDOT PROJECT MANAGER: PETER MERRIS

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

TABULATION OF QUANTITIES																										
BID ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBER																				SHEET TOTAL		GRAND TOTAL	
			S-4		S-5		S-6		S-7		S-8															
			ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL				
700-40-1	SIGN, SINGLE POST (LESS THAN 12 SF)																									6
	RI-1 (30"x30")	AS					1	1																1	1	
	R3-18 (24"x24")	AS	1	1																				1	1	
	R4-7, OMI-1 (24"x30", 18"x18")	AS	2	2	2	2																		4	4	
700-40-2	SIGN, SINGLE POST (12-25 SF)																									3
	RI-1, FTP-55-04 (30"x30", 24"x30")	AS	1	1																				1	1	
	R3-2, R4-7, OMI-1 (36"x36", 24"x30", 18"x18")	AS	1	1																				1	1	
	R5-1, R6-1R, R6-1L (36"x36", 36"x12", 36"x12")	AS	1	1																				1	1	
700-46-11	SIGN, EXISTING (REMOVE, SINGLE POST)	AS	3	3			1	1																4	4	
700-48-1B	SIGN PANEL (LESS THAN 15 SF) (F & I)	EA	1	1																				1	1	
710-90	PAINTED PAVEMENT MARKINGS (FINAL SURFACE)	LS																						1	1	
*	RETRO-REFLECTIVE PAVEMENT MARKER	EA	100		165		212		205		116													798		
*	SKIP TRAFFIC STRIPE (6" WHITE, 10'-30')	LF	420		598		702		570		370													2660		
*	SKIP TRAFFIC STRIPE (6" YELLOW, 10'-30')	LF			240		706		384		260													1590		
*	SOLID TRAFFIC STRIPE (6" WHITE)	NM	0.389		0.527		0.497		0.500		0.350													2		
*	SOLID TRAFFIC STRIPE (6" YELLOW)	NM	0.353		0.500		0.530		0.488		0.302													2		
*	SOLID TRAFFIC STRIPE (8" WHITE)	LF	395		185																			580		
*	SOLID TRAFFIC STRIPE (12" WHITE)	LF	350		120				486		17													973		
*	SOLID TRAFFIC STRIPE (18" WHITE)	LF	30		50																			80		
*	SOLID TRAFFIC STRIPE (24" WHITE)	LF	63		62				219		24													368		
*	SOLID TRAFFIC STRIPE (18" YELLOW)	LF			25				120															145		
*	SKIP TRAFFIC STRIPE (6" WHITE, 6'-10')	LF	24		90				30															144		
*	SKIP TRAFFIC STRIPE (6" WHITE, 2'-4')	LF	34																					34		
*	SKIP TRAFFIC STRIPE (6" YELLOW, 6'-10')	LF			120																			120		
*	PAVEMENT MESSAGES, PAINTED (ONLY)	EA							4															4		
*	DIRECTIONAL ARROWS, PAINTED	EA	5		10		8		11		7													41		

NOTE:
* THESE QUANTITIES ARE PAID FOR UNDER PAINTED PAVEMENT MARKINGS (FINAL SURFACE), LUMP SUM - ITEM NO. 710-90. THE QUANTITIES SHOWN ARE FOR ONE APPLICATION. SEE SPECIFICATION SECTION 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.

REVISIONS						HNTB HNTB CORPORATION 7077 BONNEVAL ROAD, SUITE 600 JACKSONVILLE, FL 32266 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: MARY E. HOLM, PE FL REGISTRATION NO. 60243	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES	SHEET NO. S-2
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							326	MARION	417005-1-52-01		

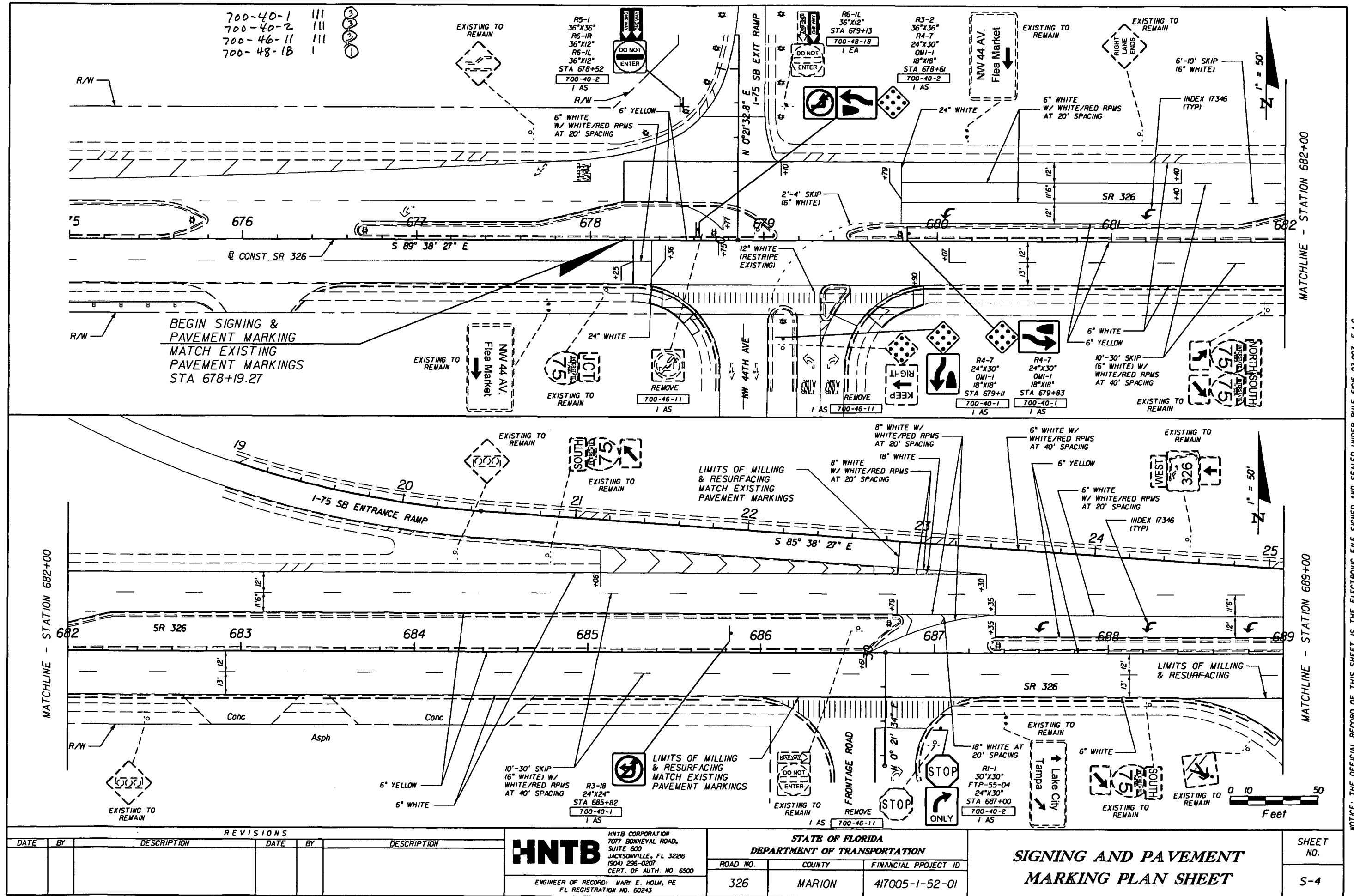
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61615-23.003, F.A.C.

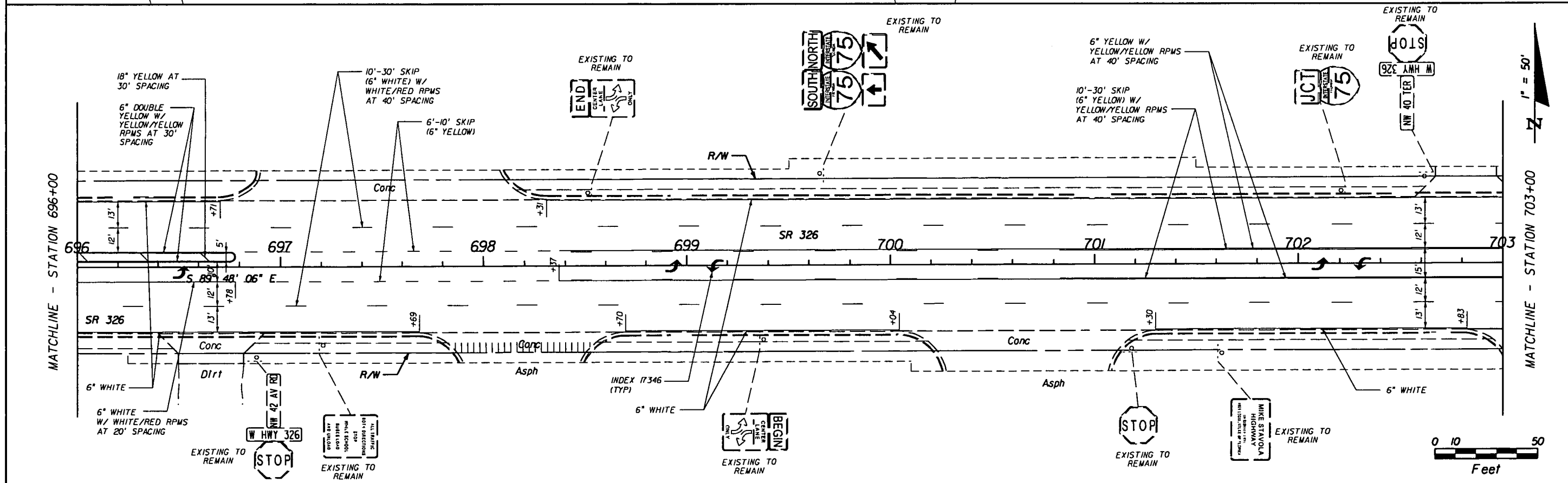
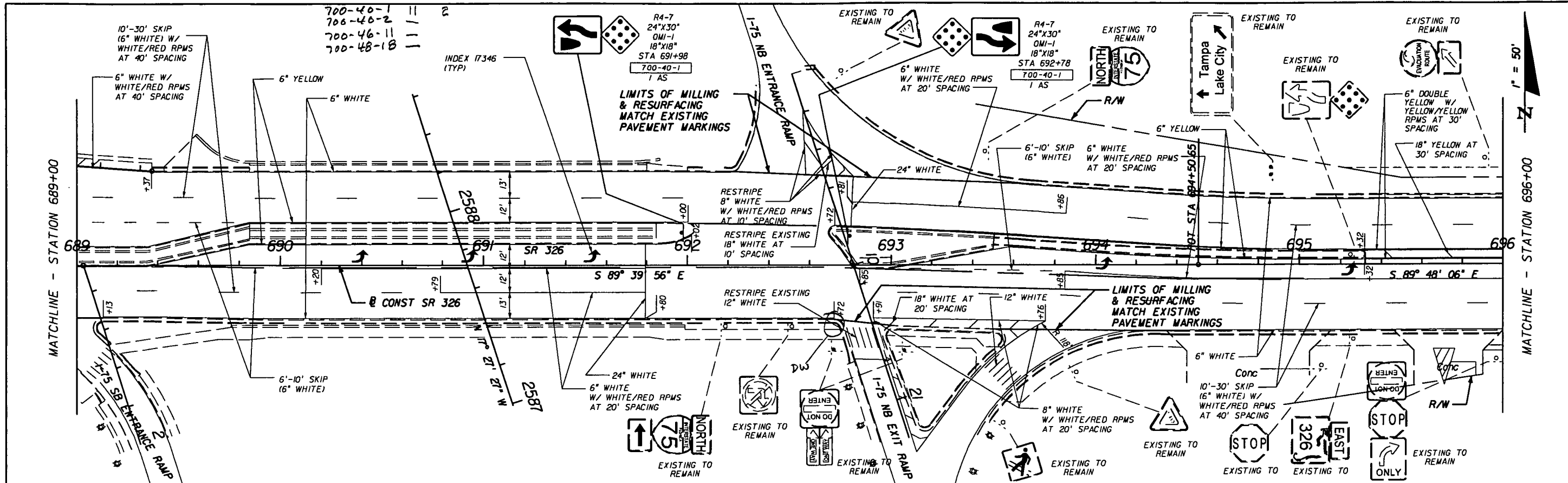
SIGNING AND PAVEMENT MARKING NOTES

- 1. SIGN ASSEMBLY LOCATIONS SHOWN ON PLANS WHICH ARE IN CONFLICT WITH UTILITIES, ETC., MAY BE ADJUSTED SLIGHTLY AS DIRECTED BY THE ENGINEER.
- 2. ALL PAVEMENT MARKINGS AT THE EXISTING / PROPOSED INTERFACE LOCATIONS ARE TO MATCH IN TERMS OF COLOR AND ALIGNMENT.
- 3. THE LOCATIONS OF THE SIGNS SHOWN IN THE PLANS ARE APPROXIMATE. THE ENGINEER MAY REQUIRE THE CONTRACTOR TO FIELD ADJUST THE LOCATION OF ANY SIGN TO ENSURE PROPER VISIBILITY.
- 4. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME SIGNS VISIBLE DURING CONSTRUCTION OPERATIONS IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
- 5. ALL EXISTING SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED IN THESE PLANS.
- 6. ALL REMOVED SIGNS BECOME THE PROPERTY OF THE CONTRACTOR TO BE DISPOSED OF PROPERLY UNLESS OTHERWISE NOTED ON PLANS.

REVISIONS						HNTB HNTB CORPORATION 7077 BONNEVAL ROAD, SUITE 600 JACKSONVILLE, FL 32216 ISO 9001:2015 CERT. NO. 6500 ENGINEER OF RECORD: MARY E. HOLM, PE FL REGISTRATION NO. 60243	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-3
							326	MARION	417005-1-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 68J5-23.003, F.A.C.





REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB

HNTB CORPORATION
7077 BONNEVAL ROAD,
SUITE 600
JACKSONVILLE, FL 32216
(904) 236-0207
CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: MARY E. HOLM, PE
FL REGISTRATION NO. 60243

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

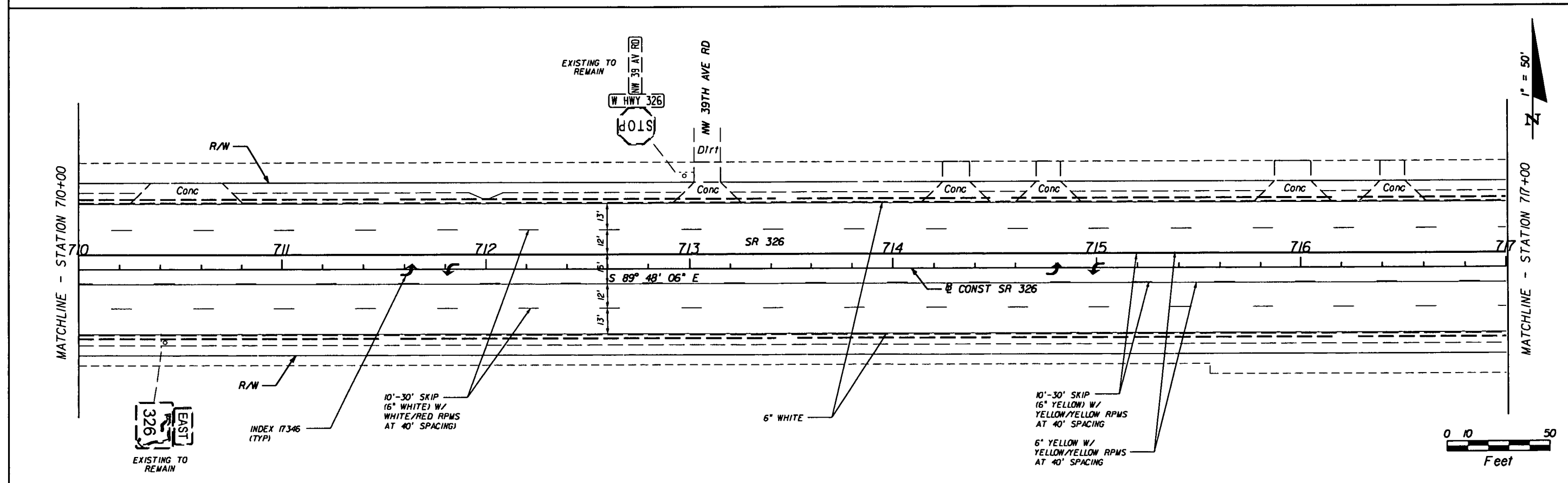
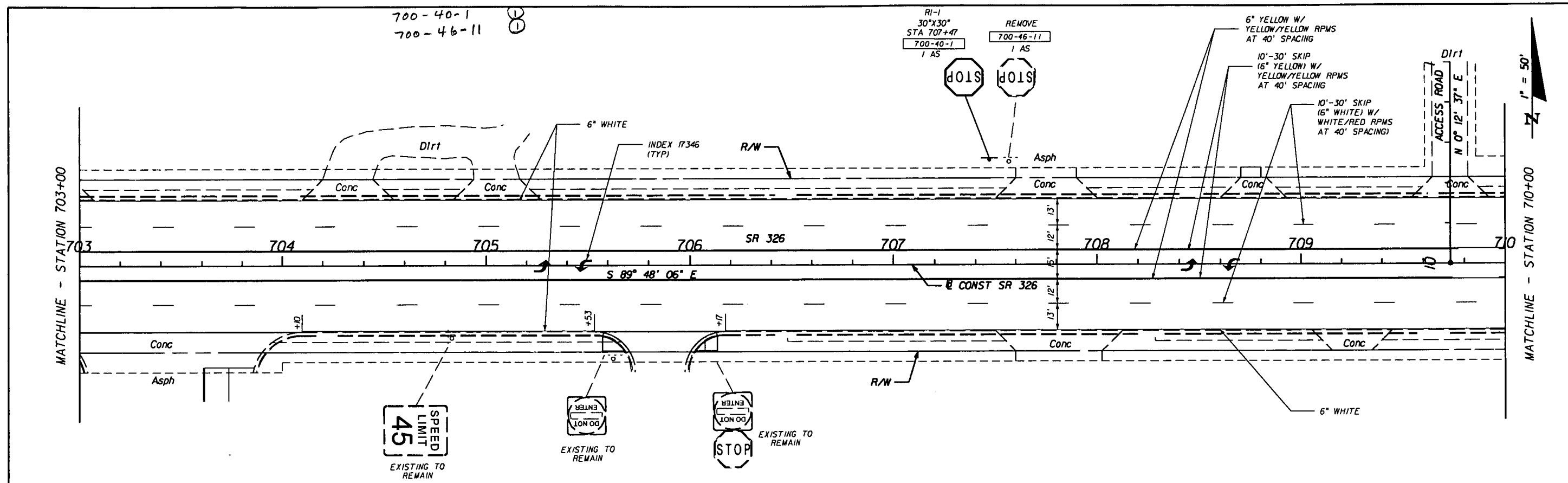
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
326	MARION	417005-1-52-01

**SIGNING AND PAVEMENT
MARKING PLAN SHEET**

SHEET
NO.

S-5

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6805-23.003, F.A.C.



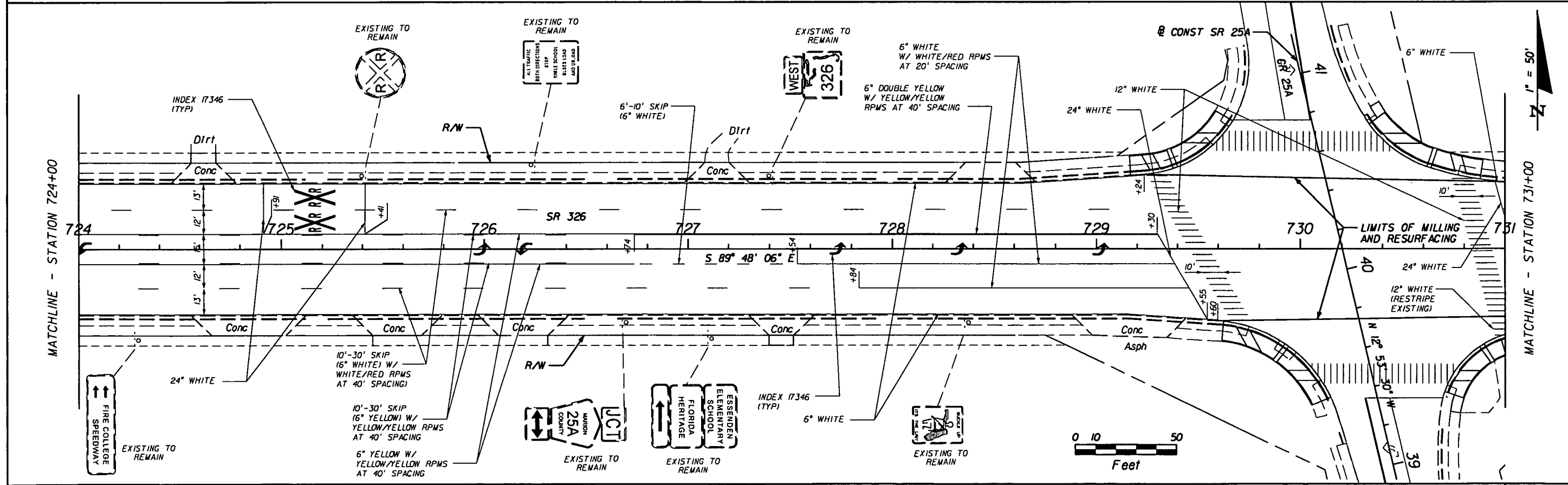
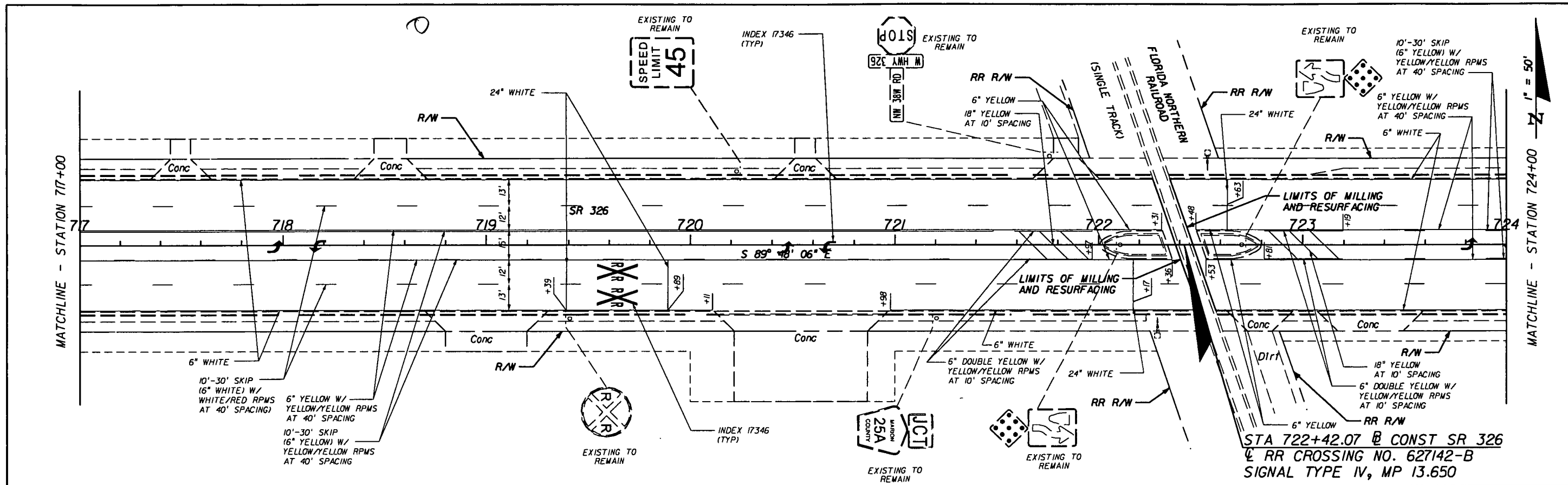
REVISIONS						HNTB HNTB CORPORATION 7077 BONNEVAL ROAD, SUITE 600 JACKSONVILLE, FL 3226 (904) 296-0207 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: MARY E. HOLM, PE FL REGISTRATION NO. 60243	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKING PLAN SHEET	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							326	MARION	417005-1-52-01		S-6

12/18/2006

2:12:15 PM

W:\hobs\40491\01P\PRODUCTION SUBMITTAL\417005\5201\signing\plansp03.dgn

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61615-23.003, F.A.C.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB

HNTB CORPORATION
7077 BONNEVAL ROAD,
SUITE 600
JACKSONVILLE, FL 32216
(904) 296-0207
CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: MARY E. HOLM, PE
FL REGISTRATION NO. 60243

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

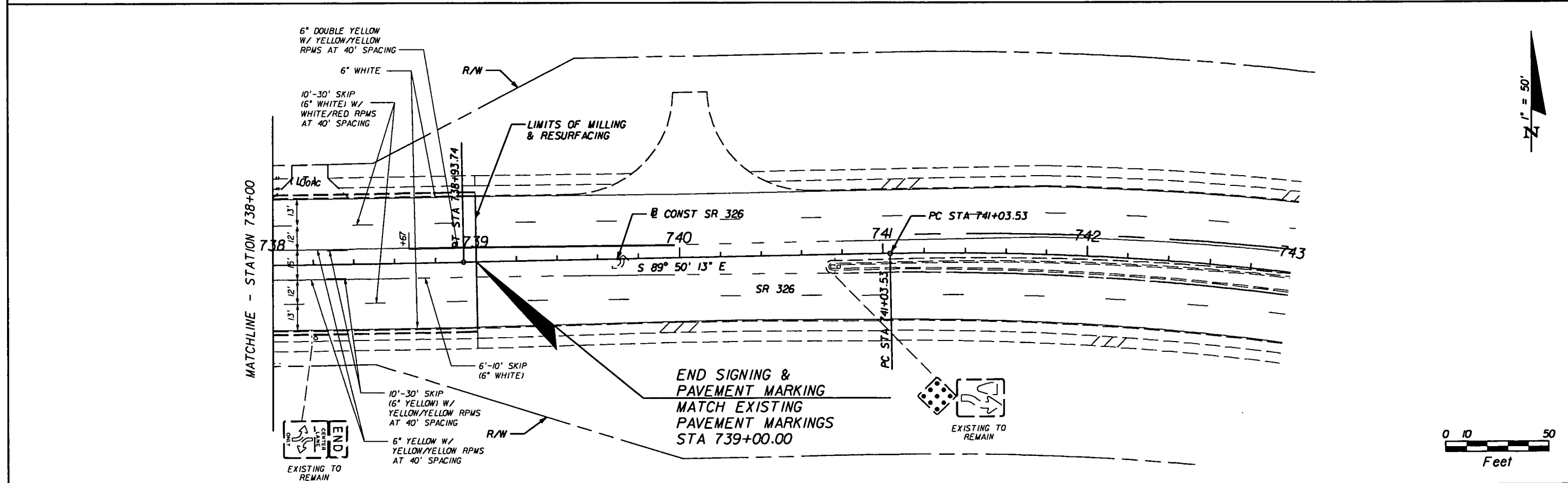
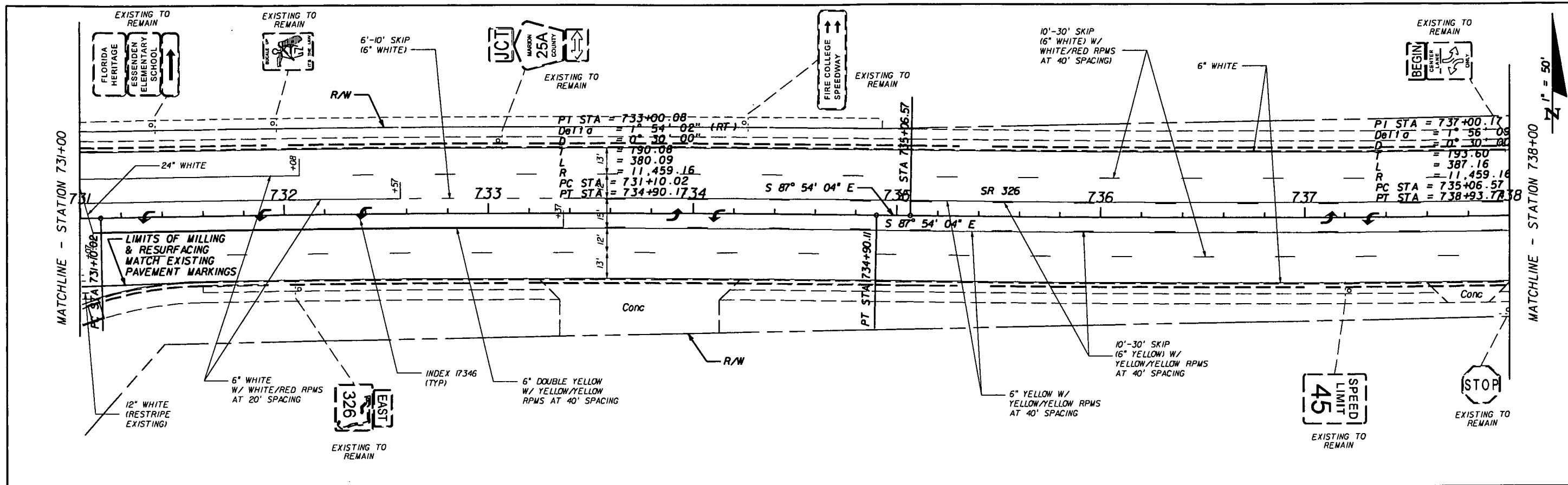
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
326	MARION	417005-1-52-01

**SIGNING AND PAVEMENT
MARKING PLAN SHEET**

DATE: 12/8/2006
TIME: 2:12:58 PM
FILE: W:\Jobs\40491.012\PRODUCTION_SUBMITTAL\41700515201\signing\plansp04.dgn

SHEET NO.
S-7

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6805-23.003, F.A.C.



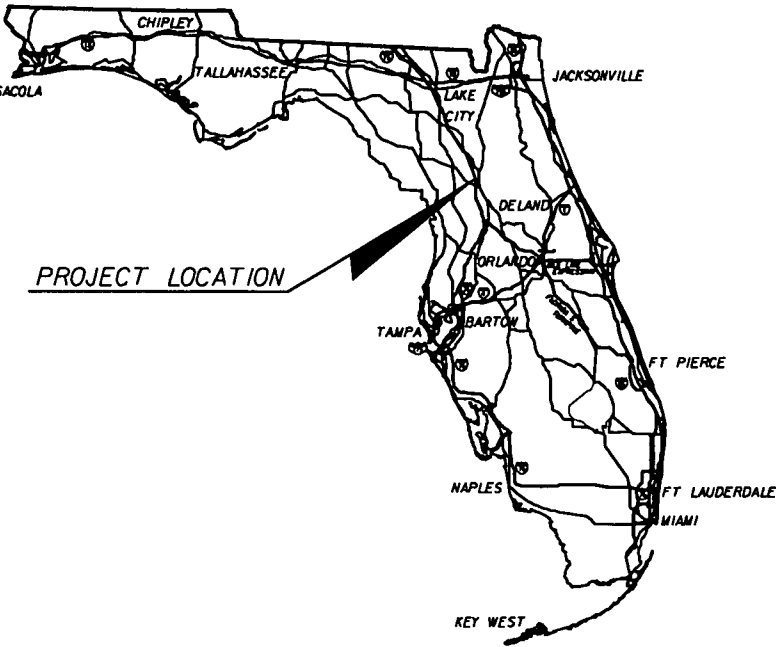
REVISIONS						HNTB	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SIGNING AND PAVEMENT MARKING PLAN SHEET		SHEET NO. S-8
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
						ENGINEER OF RECORD: MARY E. HOLM, PE FL REGISTRATION NO. 60243	ROAD NO. 326	COUNTY MARION	FINANCIAL PROJECT ID 417005-1-52-01	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6605-23.003, F.A.C.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
FINAL "AS BUILT" PLANS
~~CONTRACT PLANS~~

FINANCIAL PROJECT ID 417005-1-52-01
(FEDERAL FUNDS)
MARION COUNTY (36180)
STATE ROAD NO. 326

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 TO T-6	SIGNALIZATION PLAN SHEETS
T-7	TRAFFIC MONITORING SITE TMS 360465VL

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

SIGNALIZATION SHOP DRAWINGS
TO BE SUBMITTED TO:

DAVID W. GWYNN, JR., P.E.
HNTB CORPORATION
300 PRIMERA BLVD,
SUITE 200
LAKE MARY, FL 32746

PLANS PREPARED BY:

HNTB

HNTB CORPORATION
300 PRIMERA BLVD,
SUITE 200
LAKE MARY, FL 32746
PHONE: (407) 805-0355
FAX: (407) 805-0227
CERTIFICATE OF AUTHORIZATION NO: 6500
VENDOR NO: VF-593094436-001
CONTRACT NO: C-7927

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

THIS PROJECT WAS CONSTRUCTED IN SUBSTANCIAL COMPLIANCE
WITH THESE PLANS AS PROVIDED BY THE ENGINEER OF RECORD.
IF CHANGES WERE MADE, THESE CHANGES ARE INDICATED
BY BLACK INK REVISION AND BEAR THE SEAL, SIGNATURE
AND DATE OF THE RESPONSIBLE ENGINEER

Edw E. Gwynn, Jr.
RESIDENT ENGINEER
5-22-09
DATE

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

SIGNALIZATION PLANS
ENGINEER OF RECORD: DAVID W. GWYNN, JR., P.E.
P.E. NO.: 43967

FISCAL YEAR	SHEET NO.
07	T-1

FDOT PROJECT MANAGER: PETER MERRIS

Edw E. Gwynn, Jr.
5-22-09
AS-BUILT ONLY

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

TABULATION OF QUANTITIES																											
BID ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBER																				SHEET TOTAL	GRAND TOTAL			
			T-4		T-5		T-6		T-7																		
			ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL			ORIG.	FINAL	
630-I-12	CONDUIT (F & I)(UNDERGROUND)	LF	25	26	318	318	373	62																	716	408	716
630-I-13	CONDUIT (F & I)(UNDERPAVEMENT)	LF			8	8	92	92																	100	100	100
630-I-14	CONDUIT (F & I)(UNDERGROUND - JACKED)	LF	162	162	169	487	358	714																	689	1363	689
632-7-I	CABLE (SIGNAL)(F & I)	PI	1	1	1	1	1	1																	3	3	3
635-I-II	PULL AND JUNCTION BOXES (F & I)(PULL BOX)	EA	2	2	6	6	6	6																	14	14	14
653-I9I	SIGNAL PEDESTRIAN (F&I)(LED)(I DIRECTION)	AS	2	2	2	2		8																	4	12	4
653-I92	SIGNAL PEDESTRIAN (F&I)(LED)(2 DIRECTIONS)	AS					4	0																	4	0	4
659-I09	SIGNAL HEAD AUXILIARIES (F & I)(CONC. PEDESTAL TYPE III)	EA	2	2	2	2	4	8																	8	12	8
660-2-I02	LOOP ASSEMBLY,(F&I)(TYPE B)	AS	4	8	8	8	8	8																	20	24	20
660-2-I06	LOOP ASSEMBLY,(F&I)(TYPE F)	AS	1	1	1	2	2	2																	4	5	4
665-II	DETECTOR PEDESTRIAN (F&I)(DET STA POLE OR CABINET MTD)	EA	2	2	2	2	8	8																	12	12	12
670-5-4II	CNTL ASSEMBLY ACT SS MOD NEMA PRE (ONE)	AS	1	1	1	1	1	1																	3	3	3
690-20	SIGNAL PEDESTRIAN ASSEMBLY REMOVAL	EA					4	4																	4	4	4
690-3I	SIGNAL PEDESTAL REMOVAL	EA	2	2	2	2	2	2																	6	6	6
690-70	DETECTOR PEDESTRIAN ASSEMBLY, REMOVE	EA	2	2	2	2	8	8																	12	12	12
690-90	CONDUIT AND CABLING REMOVE	PI	1	1	1	1	1	1																	3	3	3
690-I00	SIGNAL EQUIPMENT, MISCELLANEOUS REMOVE	PI			1	1	1	1																	2	2	2
745-70-I2	TMS INDUCTIVE LOOP ASSEMBLY (F&I)(2 LOOPS/LN)	AS							4	4															4	4	4
746-7																											

REVISIONS						HNTB HNTB CORPORATION 300 PRIMA BLVD., SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: DAVID W. GWYNN, JR., PE FL REGISTRATION NO. 43967	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET NO. T-2
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
							326	MARION	417005-1-52-01	

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6(G)(5)-23.003, F.A.C.

TABULATION OF QUANTITIES

BID ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBER																				SHEET TOTAL	GRAND TOTAL		
			T-4		T-5		T-6		T-7																	
			ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL			ORIG.	FINAL
630-1-12	CONDUIT (F & I)(UNDERGROUND)	LF	25	26	318	318	444	444	31	31														787	406	406
630-1-13	CONDUIT (F & I)(UNDERPAVEMENT)	LF			8	8	92	92																	100	100
630-1-14	CONDUIT (F & I)(UNDERGROUND - JACKED)	LF	162	162	169	169	487	487	358	358	714	714													689	1343
632-7-1	CABLE (SIGNAL)(F & I)	PI	1	1	1	1	1	1																	3	3
635-1-11	PULL AND JUNCTION BOXES (F & I)(PULL BOX)	EA	2	2	6	6	6	6																	14	14
653-191	SIGNAL PEDESTRIAN (F&I)(LED)(DIRECTION)	AS	2	2	2	2	8	8																	12	12
659-109	SIGNAL HEAD AUXILIARIES (F & I)(CONC. PEDESTAL TYPE III)	EA	2	2	2	2	8	8																	12	12
660-2-102	LOOP ASSEMBLY, (F&I)(TYPE B)	AS	4	8	8	8	8	8																	20	24
660-2-106	LOOP ASSEMBLY, (F&I)(TYPE F)	AS	1	1	1	2	2	2																	4	5
665-11	DETECTOR PEDESTRIAN (F&I)(DET STA POLE OR CABINET MTD)	EA	2	2	2	2	8	8																	12	12
670-5-411	CNTL ASSEMBLY ACT SS MOD NEMA PRE (ONE)	AS	1	1	1	1	1	1																	3	3
690-20	SIGNAL PEDESTRIAN ASSEMBLY REMOVAL	EA					4	4																	4	4
690-31	SIGNAL PEDESTAL REMOVAL	EA	2	2	2	2	2	2																	6	6
690-70	DETECTOR PEDESTRIAN ASSEMBLY, REMOVE	EA	2	2	2	2	8	8																	12	12
690-90	CONDUIT AND CABLING REMOVE	PI	1	1	1	1	1	1																	3	3
690-100	SIGNAL EQUIPMENT, MISCELLANEOUS REMOVE	PI			1	1	1	1																	2	2
745-70-12	TMS INDUCTIVE LOOP ASSEMBLY (F&I)(2 LOOPS/LN)	AS							4	4															4	4
746-74-111	TMS CABINET (MOD)(TYPE III)(BASE MNT)(BACKPLANE)	EA							1	1															1	1

NOTE:
* THESE QUANTITIES ARE PAID FOR UNDER PAINTED PAVEMENT MARKINGS (FINAL SURFACE), LUMP SUM - ITEM NO.710-90. THE QUANTITIES SHOWN ARE FOR ONE APPLICATION. SEE SPECIFICATION SECTION 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.

REVISIONS						HNTB HNTB CORPORATION 300 PRIMERA BOULEVARD, SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			6/27/08 FOR REV. 1 ONLY.	T-2
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
6-27-08	LED	Δ MODIFIED QUANTITIES AND REMOVED 2 WAY PEDESTRIAN SIGNAL					326	MARION	417005-1-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G05-23.003, F.A.C.

SIGNALIZATION NOTES

1. THE CONTRACTOR SHALL NOTIFY BOTH FDOT AND THE MAINTAINING AGENCY TWO BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION. MAINTAINING AGENCY: MARION COUNTY (352)-671-8397.
2. THE CONTRACTOR SHALL HAVE AN IMSA LEVEL II CERTIFIED SIGNAL TECHNICIAN ON CALL WITHIN A MAXIMUM OF TWO HOURS RESPONSE TIME.
3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE MAINTAINING AGENCY AT LEAST TWO BUSINESS DAYS IN ADVANCE OF INSTALLING UNDERGROUND CONDUIT, LOOP CUTTING (SO THAT THEY MAY CHALK THE LOOPS), OR SETTING POLES SO THAT THESE OPERATIONS MAY BE OBSERVED.
4. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY DIRECTIONAL BORE, JACKING OR TRENCHING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.
5. PULL BOXES SHALL BE PLACED BEHIND CURB AND GUTTER. IF THERE IS NO CURB AND GUTTER, THEN PULL BOXES SHALL BE PLACED AT LEAST 10 FEET FROM THE EDGE OF PAVEMENT.
6. UNLESS SPECIFIED OTHERWISE, ALL PULL BOX COVERS TO BE FURNISHED AND INSTALLED SHALL BE NON-METALLIC AND STAMPED "TRAFFIC SIGNAL".
7. ALL CABLE SHALL BE PULLED IN THE CONDUIT WITH A CABLE GRIP OF SUFFICIENT SIZE TO NOT COMPROMISE THE INSTALLATION OF THE CABLE. A WINCH WITH A SLIP CLUTCH SHALL BE USED TO INSURE THAT THE ALLOWABLE TENSION OF THE UNIT IS NOT EXCEEDED. AN APPROVED LUBRICANT SHALL BE USED TO FACILITATE THE PULLING OF THE CABLE.
8. MULTIPLE CONDUIT RUNS IN THE SAME TRENCH SHALL BE JACK AND BORED OR DIRECTIONAL BORED FOR THE 1ST CONDUIT ONLY WHERE NEW CONSTRUCTION IS NOT BEING PERFORMED. SUBSEQUENT CONDUITS WILL BE PAID FOR AS UNDERGROUND.
9. PEDESTRIAN SIGNAL INDICATIONS SHALL BE COUNTDOWN TYPE.
10. ANY EXISTING LOOPS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST. TEMPORARY DETECTION WILL BE REQUIRED AT NO ADDITIONAL COST WHENEVER REPAIRS CANNOT BE MADE IN A TIMELY FASHION.
11. ALL TYPE F LOOPS SHALL BE 6 FEET WIDE BY 40 FEET LONG AND EXTEND 5 FEET BEYOND THE STOP BAR UNLESS OTHERWISE NOTED IN THE PLANS.
12. ALL DETECTOR LOOPS SHALL BE CUT ONTO THE ASPHALTIC CONCRETE STRUCTURAL COURSE BEFORE PLACEMENT OF FRICTION COURSE WHENEVER POSSIBLE. ALL LOOP LEAD-IN CABLES SHALL BE PLACED IN CONDUIT.

SIGNALIZATION NOTES (CONT.)

13. FTP-25-04 & R10-3E SIGNS SHALL BE INSTALLED AT EACH PEDESTRIAN DETECTOR.
14. PUSH BUTTONS SHALL BE CONSTRUCTED WITH MECHANICAL CONTACTS. MICROSWITCHES SHALL NOT BE USED.
15. UNLESS OTHERWISE NOTED, ALL REMOVED EQUIPMENT SHALL BE DELIVERED TO THE MAINTAINING AGENCY. CONTACT THE MARION COUNTY TRAFFIC SIGNAL SHOP (352-671-8369) TO COORDINATE DELIVERY.
16. DELAY TIMES FOR LOOPS MARKED "DELAY" SHALL BE SET TO 5 SECONDS.
17. THE CONTRACTOR IS REQUIRED TO INSPECT THE INSTALLATION OF THE TRAFFIC SIGNALS IN ACCORDANCE WITH FDOT SPECIFICATION 105-5.10. THE CONTRACTOR SHALL COORDINATE THE FINAL ACCEPTANCE INSPECTION IN ACCORDANCE WITH FDOT SPECIFICATION 611-2.2 WITH THE ENGINEER AT LEAST TEN DAYS IN ADVANCE. MARION COUNTY AND RAY MARLIN AT (386)-943-5318 SHOULD ALSO BE CONTACTED TEN DAYS BEFORE THE INSPECTION IS TO BE PERFORMED SO THEY MAY BE PRESENT.
18. CONTRACTOR SHALL HAND DIG FIRST 4 FEET AT EACH POLE LOCATION TO VERIFY NO UTILITY CONFLICTS.
19. THREE SPARE CONDUCTORS ARE TO BE RUN TO THE FURTHEST PEDESTRIAN SIGNAL HEAD.
20. ALL PEDESTRIAN HEADS AND PEDESTRIAN BUTTONS SHALL HAVE WEEP HOLES.

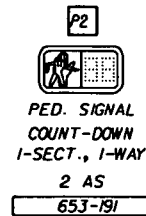
PAY ITEM NOTES

- 665-II PAYMENT FOR FTP-25-04 & R10-E SHALL BE INCLUDED IN THIS PAY ITEM.
- 690-20 COST OF DELIVERY TO THE MAINTAINING AGENCY OF ALL REMOVED EQUIPEMENT
- 690-31 SHALL BE PAID FOR UNDER THESE PAY ITEMS
- 690-70
- 690-90
- 690-100

REVISIONS						HNTB HNTB CORPORATION 300 PRIMERA BLVD., SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: DAVID W. GWYNN, JR., PE FL REGISTRATION NO. 43967	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO. T-3
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							326	MARION	417005-1-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

SIGNAL HEAD DETAILS

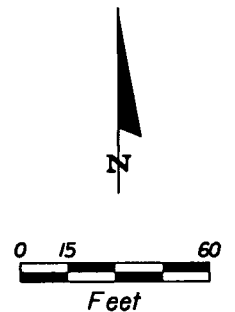


NOTES:

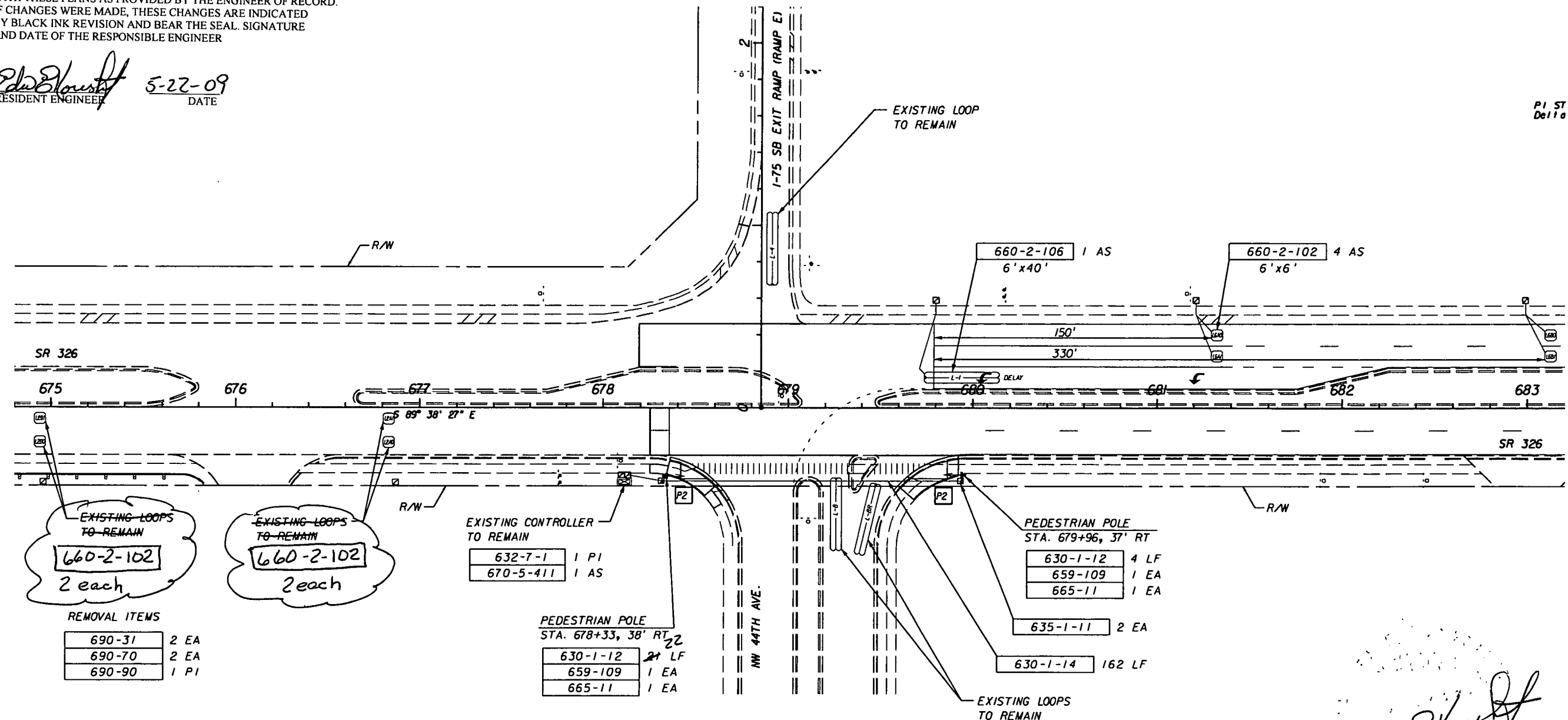
1. THE MAJOR STREET IS SR 326 AND THE MINOR STREET IS NW 44TH AVE./I-75 SOUTHBOUND EXIT RAMP (RAMP E).
2. THE SPEED LIMIT ON SR 326 IS 45 MPH.
3. EXCEPT WHERE OTHERWISE SHOWN, THE CONTRACTOR SHALL UTILIZE EXISTING PULL BOXES AND CONDUIT TO CONNECT NEW LOOPS TO EXISTING CONTROLLER.
4. EXISTING CONTROLLER TIMINGS SHALL BE USED.

THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THESE PLANS AS PROVIDED BY THE ENGINEER OF RECORD. IF CHANGES WERE MADE, THESE CHANGES ARE INDICATED BY BLACK INK REVISION AND BEAR THE SEAL, SIGNATURE AND DATE OF THE RESPONSIBLE ENGINEER

Edw. E. Housh
RESIDENT ENGINEER
5-22-09
DATE



PI ST
Delta



Edw. E. Housh
5-22-09
As Built Only

REVISIONS						HNTB	HNTB CORPORATION 300 PRIMA BLVD., SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNALIZATION PLAN SHEET	SHEET NO. T-4
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								326	MARION	417005-1-52-01		

ENGINEER OF RECORD: DAVID W. GWYNN, JR., PE
FL REGISTRATION NO. 43967

W:\m\lout

12/8/2006

2:14:40 PM

W:\Jobs\40491\012\PRODUCTION\SUBMITTAL\417005\5201\signals\plans\g01.dgn

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6805-23.003, F.A.C.

SIGNAL HEAD DETAILS



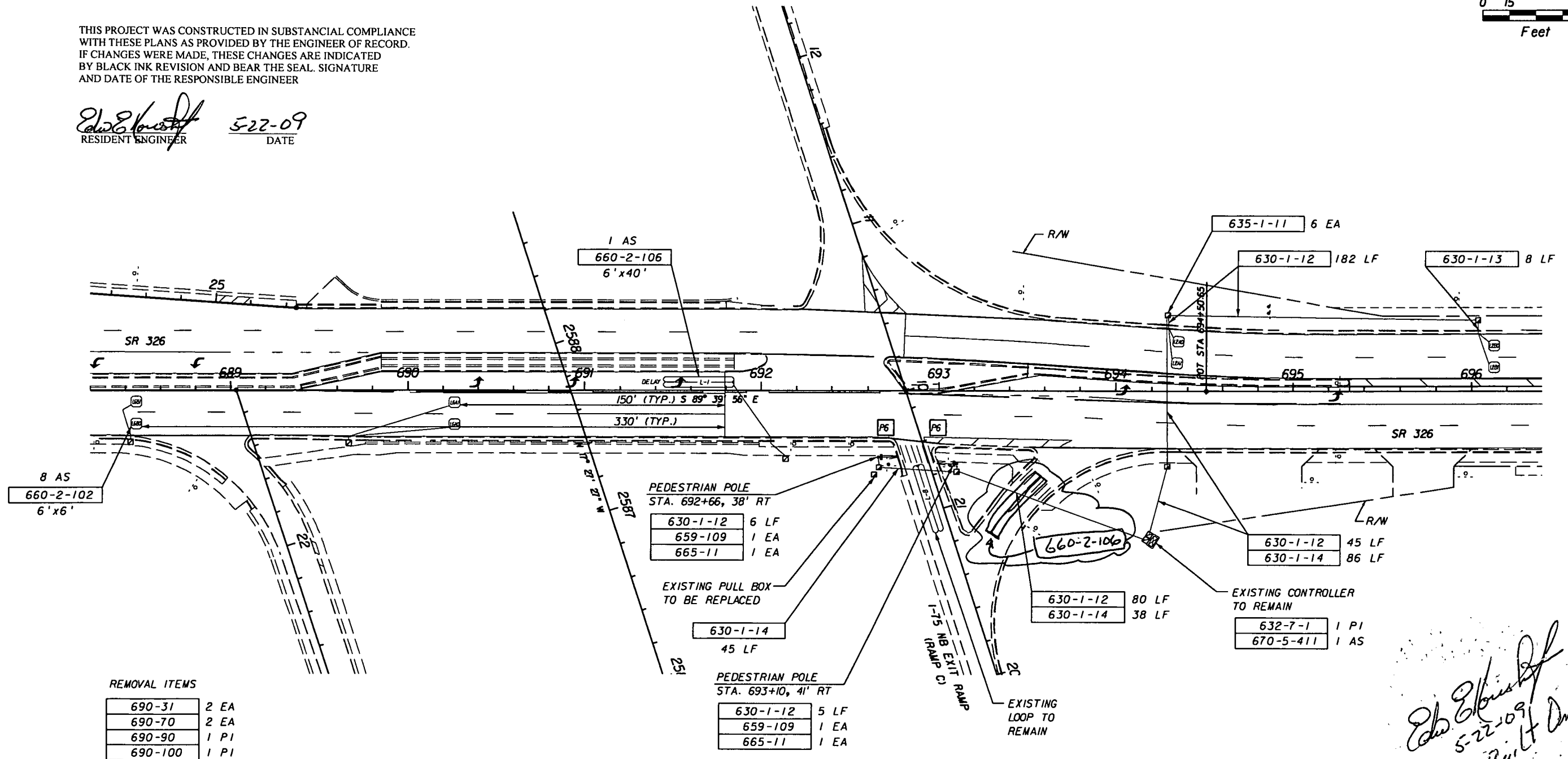
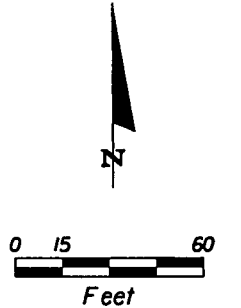
NOTES:

1. THE MAJOR STREET IS SR 326 AND THE MINOR STREET IS I-75 NORTHBOUND EXIT RAMP (RAMP C).
2. THE SPEED LIMIT ON SR 326 IS 45 MPH.
3. EXCEPT WHERE OTHERWISE SHOWN, THE CONTRACTOR SHALL UTILIZE EXISTING PULL BOXES AND CONDUIT TO CONNECT NEW LOOPS TO EXISTING CONTROLLER.
4. EXISTING CONTROLLER TIMINGS SHALL BE USED.

THIS PROJECT WAS CONSTRUCTED IN SUBSTANTIAL COMPLIANCE WITH THESE PLANS AS PROVIDED BY THE ENGINEER OF RECORD. IF CHANGES WERE MADE, THESE CHANGES ARE INDICATED BY BLACK INK REVISION AND BEAR THE SEAL, SIGNATURE AND DATE OF THE RESPONSIBLE ENGINEER

Edw. E. Elkins
RESIDENT ENGINEER

5-22-09
DATE



Edw. E. Elkins
5-22-09
As-Built Only

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

REVISIONS						HNTB	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SIGNALIZATION PLAN SHEET	SHEET NO. T-5
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				
						ENGINEER OF RECORD: DAVID W. Gwynn, Jr., PE FL REGISTRATION NO. 43967	ROAD NO. 326 COUNTY MARION FINANCIAL PROJECT ID 417005-1-52-01		

wumout

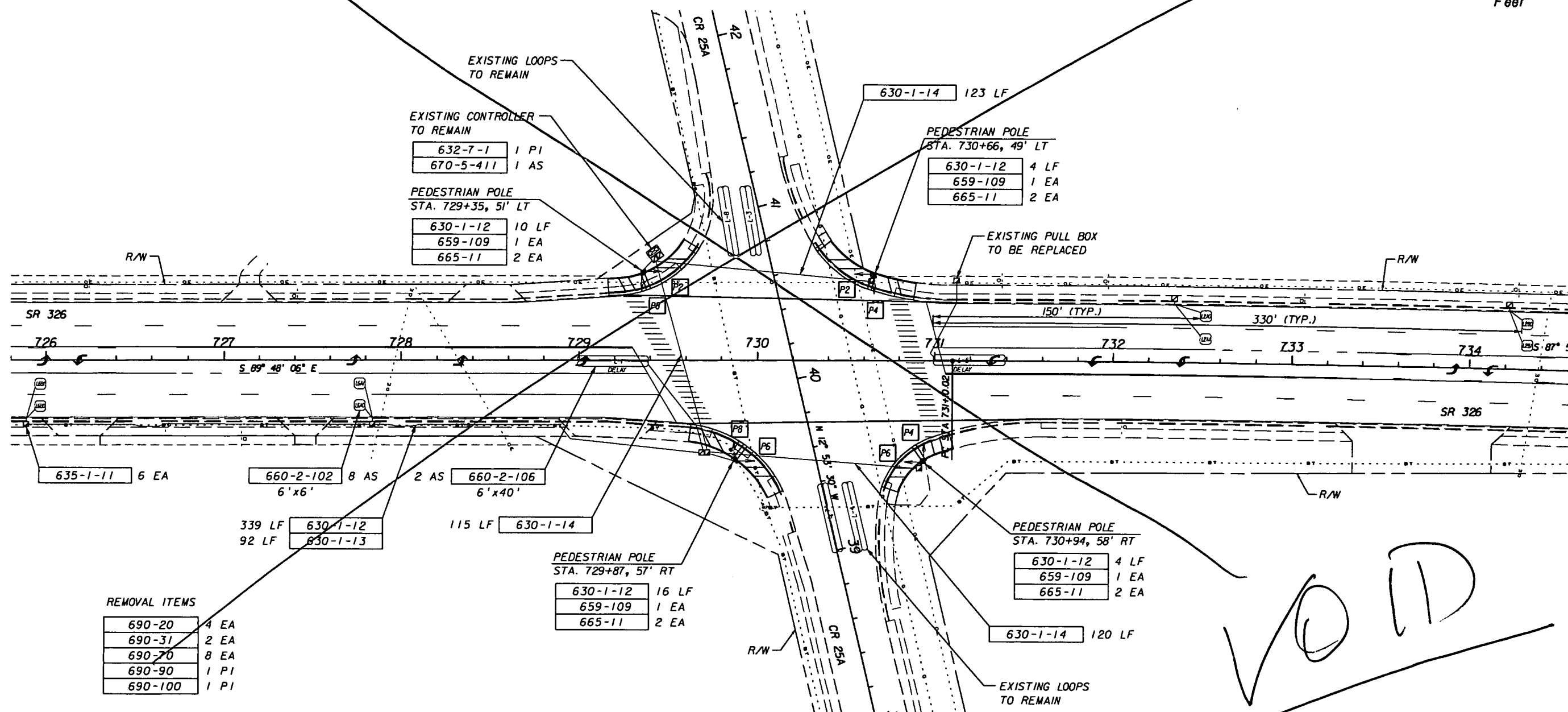
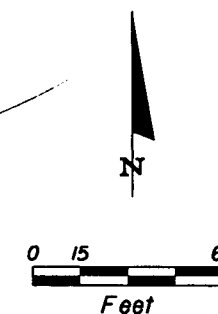
12/18/2006

2:14:47 PM

W:\Jobs\410491\012\PRODUCTION_SUBMITTAL\417005\5201\signal\plans\g02.dgn

PED. SIGNAL
COUNT-DOWN
I-SECT., 2-WAY
4 AS
653-192

1. THE MAJOR STREET IS SR 326 AND THE MINOR STREET IS CR 25A.
2. THE SPEED LIMIT ON SR 326 IS 45 MPH.
3. EXCEPT WHERE OTHERWISE SHOWN, THE CONTRACTOR SHALL UTILIZE EXISTING PULL BOXES AND CONDUIT TO CONNECT NEW LOOPS TO EXISTING CONTROLLER.
4. EXISTING CONTROLLER TIMINGS SHALL BE USED.



REMOVAL ITEMS	
690-20	4 EA
690-31	2 EA
690-70	8 EA
690-90	1 PI
690-100	1 PI

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

HNTB

HNTB CORPORATION
300 PRIMERA BLVD.,
SUITE 200
LAKE WARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: DAVID W. GWYNN, JR., PE
FL REGISTRATION NO. 43967

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
326	MARION	417005-1-52-01

SIGNALIZATION PLAN SHEET

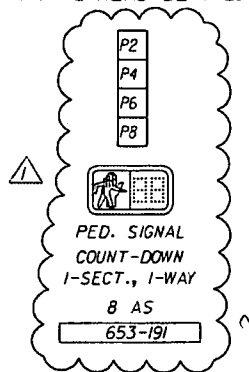
SHEET
NO

T-6

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 6615-23.003, F.A.C.

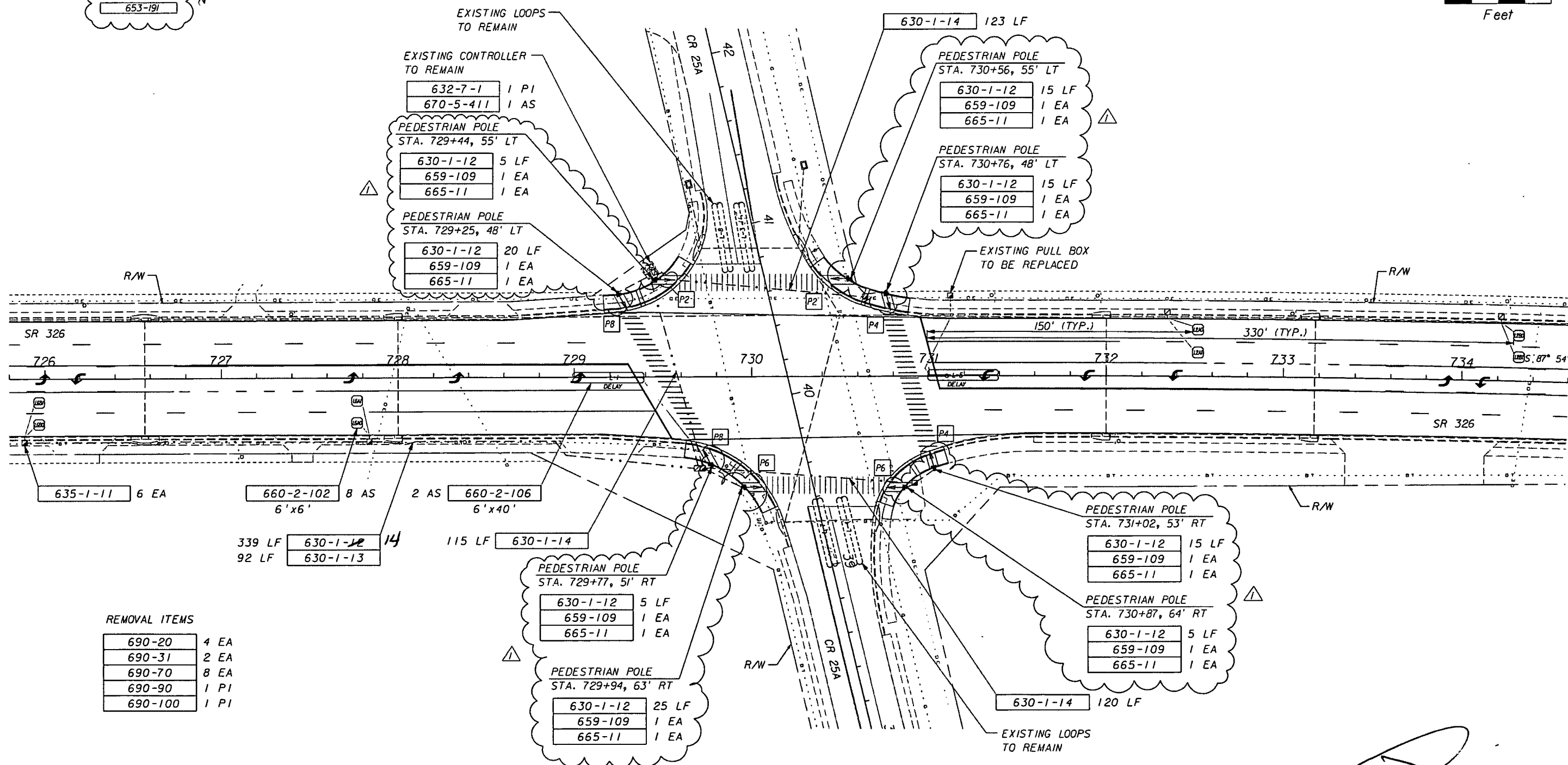
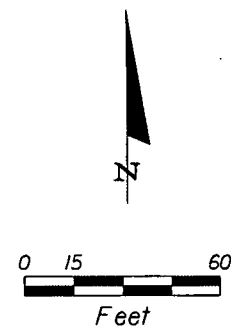
X

SIGNAL HEAD DETAILS



NOTES:

1. THE MAJOR STREET IS SR 326 AND THE MINOR STREET IS CR 25A.
2. THE SPEED LIMIT ON SR 326 IS 45 MPH.
3. EXCEPT WHERE OTHERWISE SHOWN, THE CONTRACTOR SHALL UTILIZE EXISTING PULL BOXES AND CONDUIT TO CONNECT NEW LOOPS TO EXISTING CONTROLLER.
4. EXISTING CONTROLLER TIMINGS SHALL BE USED.



REMOVAL ITEMS

690-20	4 EA
690-31	2 EA
690-70	8 EA
690-90	1 PI
690-100	1 PI

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
6-27-08	LED	MODIFIED PEDESTRAIN SIGNALS AND PEDESTRIAN POLE LOCATION			

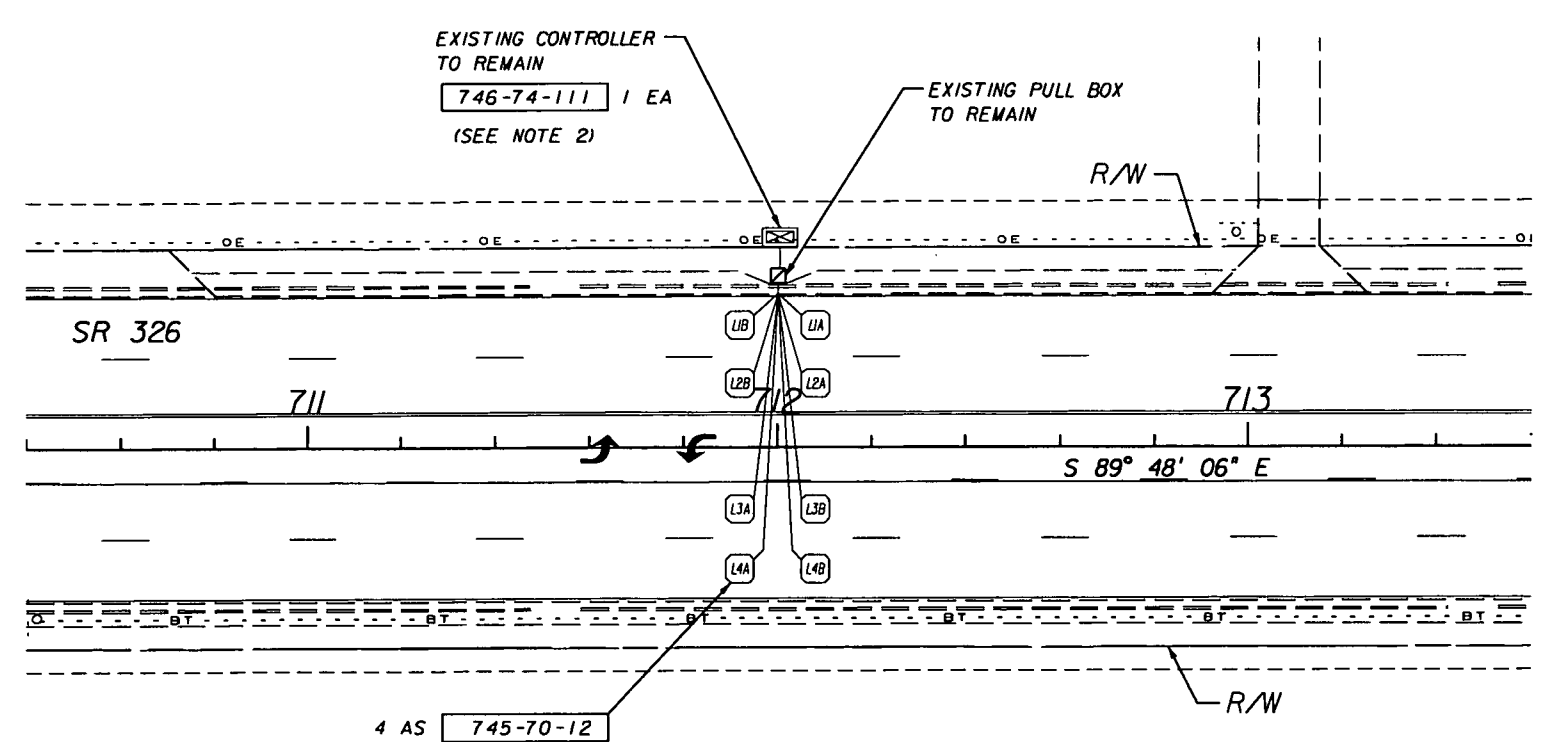
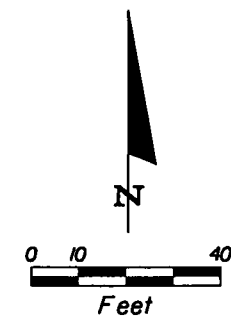
HNTB
HNTB CORPORATION
300 PRIMAVERA BOULEVARD,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500
ENGINEER OF RECORD: DAVID W. GYNN, JR., PE
FL REGISTRATION NO. 43967

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
326	MARION	417005-1-52-01

SIGNALIZATION PLAN SHEET

SHEET NO.
T-6

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.



STANDARD NOTES FOR TRAFFIC MONITORING SITES:

CONTRACTOR SHALL:

1. NOTIFY THE DISTRICT TRAFFIC OPERATIONS OFFICE AT LEAST TEN (10) WORKING DAYS PRIOR TO BEGINNING ANY WORK. CONTACT JERRY TRAUDT @ 386-943-5380 CONCERNING ANY QUESTIONS. THE DISTRICT TRAFFIC OPERATIONS OFFICE MUST APPROVE ANY CHANGE TO THE PROPOSED COUNT STATION LOCATION.
2. THE EXISTING BASE MOUNTED TYPE III TMS CABINET SHALL REMAIN. THE FOLLOWING EQUIPMENT SHALL BE INSTALLED AND SHALL BE PAID FOR UNDER PAY ITEM 746-74-III:
 - A BACKPLANE ASSEMBLY.
 - A "J" AND "P" AMPHENOL CLASSIFICATION AND STREETER-AMET 241 WIRING HARNESS.
3. FURNISH AND INSTALL LOOP ASSEMBLIES PER DESIGN STANDARDS 17503, 17721, 17781 AND 17900.
4. SPLICE ALL LOOP WIRES, IN PULL BOX (EXISTING), TO SHIELDED HOMERUN CABLE (INCLUDED IN THE LOOP ASSEMBLY), AND EXTEND THEM THROUGH A 2" CONDUIT (EXISTING) TO THE CABINET. TEST AND IDENTIFY ALL LOOPS AND LEAVE DOCUMENTATION IN THE CABINET.

REVISIONS						HNTB HNTB CORPORATION 300 PRIMERA BLVD., SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TRAFFIC MONITORING SITE TMS 360465VL	SHEET NO. T-7
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							326	MARION	417005-1-52-01		

ENGINEER OF RECORD: DAVID W. GWYNN, JR., PE
FL REGISTRATION NO. 43967

wum/aut 12/8/2006 2:15:29 PM W:\Jobs\40491.012\PRODUCTION_SUBMITTAL\4170051520\signals\plans\g04.dgn

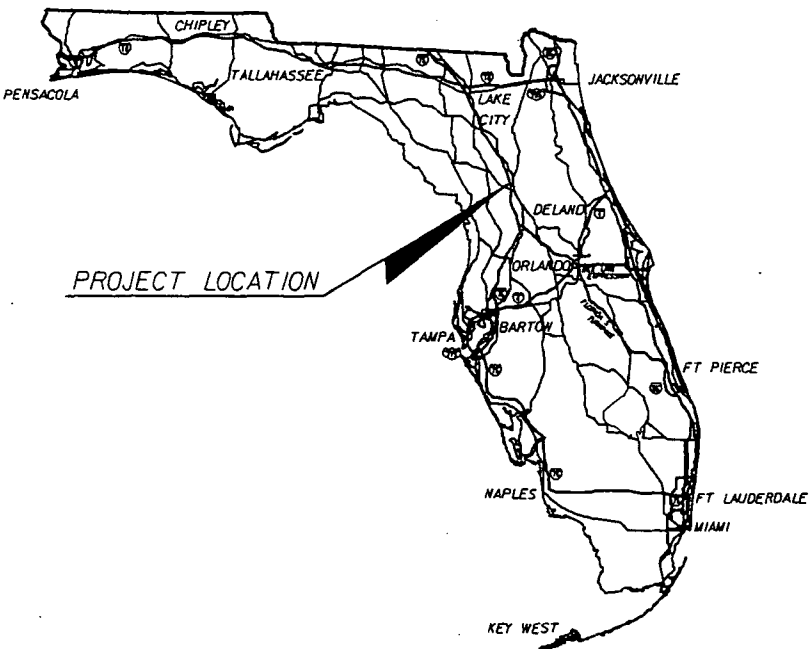
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

Roadway Specialty Devices
LARRY TAYLOR
8-19-08

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
CONTRACTOR'S AS BUILT PLANS
~~CONTRACT PLANS~~

FINANCIAL PROJECT ID 417005-1-52-01
(FEDERAL FUNDS)
MARION COUNTY (36180)
STATE ROAD NO. 326

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 TO T-6	SIGNALIZATION PLAN SHEETS
T-7	TRAFFIC MONITORING SITE TMS 360465VL

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

RECEIVED
AUG 19 2008
URS CS

SIGNALIZATION SHOP DRAWINGS
TO BE SUBMITTED TO:

DAVID W. GWYNN, JR., P.E.
HNTB CORPORATION
300 PRIMERA BLVD,
SUITE 200
LAKE MARY, FL 32746

PLANS PREPARED BY:

HNTB

HNTB CORPORATION
300 PRIMERA BLVD,
SUITE 200
LAKE MARY, FL 32746
PHONE: (407) 805-0355
FAX: (407) 805-0227
CERTIFICATE OF AUTHORIZATION NO: 6500
VENDOR NO: VF-593094436-001
CONTRACT NO: C-7927

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

KEY SHEET REVISIONS		
DATE	BY	DESCRIPTION

SIGNALIZATION PLANS
ENGINEER OF RECORD: DAVID W. GWYNN, JR., P.E.

P.E. NO.: 43967

FISCAL YEAR	SHEET NO.
07	T-1

FDOT PROJECT MANAGER: PETER MERRIS

TABULATION OF QUANTITIES																												
BID ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBER																								SHEET TOTAL	GRAND TOTAL
			T-4		T-5		T-6		T-7																			
			ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL				
630-1-12	CONDUIT (F & I)(UNDERGROUND)	LF	25	26	318	318	373	373	34	34	9-12-08													716	716			
630-1-13	CONDUIT (F & I)(UNDERPAVEMENT)	LF			8	8	92	92																	100	100		
630-1-14	CONDUIT (F & I)(UNDERGROUND - JACKED)	LF	162	162	169	169	358	358	714	714	9-12-08														689	689		
632-7-1	CABLE (SIGNAL)(F & I)	PI	1	1	1	1	1	1																	3	3		
635-1-11	PULL AND JUNCTION BOXES (F & I)(PULL BOX)	EA	2	2	6	6	6	6																	14	14		
653-191	SIGNAL PEDESTRIAN (F&I)(LED)(1 DIRECTION)	AS	2	2	2	2	2	2																	4	4		
653-192	SIGNAL PEDESTRIAN (F&I)(LED)(2 DIRECTIONS)	AS					4	4																	4	4		
659-109	SIGNAL HEAD AUXILIARIES (F & I)(CONC. PEDESTAL TYPE III)	EA	2	2	2	2	4	4																	8	8		
660-2-102	LOOP ASSEMBLY, (F&I)(TYPE B)	AS	4	4	8	8	8	8																	20	20		
660-2-106	LOOP ASSEMBLY, (F&I)(TYPE F)	AS	1	1	1	1	2	2																	4	4		
665-11	DETECTOR PEDESTRIAN (F&I)(DET STA POLE OR CABINET MTD)	EA	2	2	2	2	8	8																	12	12		
670-5-411	CNTL ASSEMBLY ACT SS MOD NEMA PRE (ONE)	AS	1	1	1	1	1	1																	3	3		
690-20	SIGNAL PEDESTRIAN ASSEMBLY REMOVAL	EA					4	4																	4	4		
690-31	SIGNAL PEDESTAL REMOVAL	EA	2	2	2	2	2	2																	6	6		
690-70	DETECTOR PEDESTRIAN ASSEMBLY, REMOVE	EA	2	2	2	2	8	8																	12	12		
690-90	CONDUIT AND CABLING REMOVE	PI	1	1	1	1	1	1																	3	3		
690-100	SIGNAL EQUIPMENT, MISCELLANEOUS REMOVE	PI			1	1	1	1																	2	2		
745-70-12	TMS INDUCTIVE LOOP ASSEMBLY (F&I)(2 LOOPS/LN)	AS							4	4															4	4		
746-74-III	TMS CABINET (MODJ)(TYPE III)(BASE MNT)(1 BACKPLANE)	EA							1	1															1	1		

26
162

318
487

34
714

378
1362

REVISIONS						HNTB HNTB CORPORATION 300 PRIMERA BLVD., SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: DAVID W. GWYNN, JR., PE FL REGISTRATION NO. 43967	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES		SHEET NO. T-2
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
							326	MARION	417005-1-52-01			

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 66J5-23.003, F.A.C.

SIGNALIZATION NOTES

- 1. THE CONTRACTOR SHALL NOTIFY BOTH FDOT AND THE MAINTAINING AGENCY TWO BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION. MAINTAINING AGENCY: MARION COUNTY (352)-671-8397.
- 2. THE CONTRACTOR SHALL HAVE AN IMSA LEVEL II CERTIFIED SIGNAL TECHNICIAN ON CALL WITHIN A MAXIMUM OF TWO HOURS RESPONSE TIME.
- 3. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND THE MAINTAINING AGENCY AT LEAST TWO BUSINESS DAYS IN ADVANCE OF INSTALLING UNDERGROUND CONDUIT, LOOP CUTTING (SO THAT THEY MAY CHALK THE LOOPS), OR SETTING POLES SO THAT THESE OPERATIONS MAY BE OBSERVED.
- 4. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY DIRECTIONAL BORE, JACKING OR TRENCHING. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.
- 5. PULL BOXES SHALL BE PLACED BEHIND CURB AND GUTTER. IF THERE IS NO CURB AND GUTTER, THEN PULL BOXES SHALL BE PLACED AT LEAST 10 FEET FROM THE EDGE OF PAVEMENT.
- 6. UNLESS SPECIFIED OTHERWISE, ALL PULL BOX COVERS TO BE FURNISHED AND INSTALLED SHALL BE NON-METALLIC AND STAMPED "TRAFFIC SIGNAL".
- 7. ALL CABLE SHALL BE PULLED IN THE CONDUIT WITH A CABLE GRIP OF SUFFICIENT SIZE TO NOT COMPROMISE THE INSTALLATION OF THE CABLE. A WINCH WITH A SLIP CLUTCH SHALL BE USED TO INSURE THAT THE ALLOWABLE TENSION OF THE UNIT IS NOT EXCEEDED. AN APPROVED LUBRICANT SHALL BE USED TO FACILITATE THE PULLING OF THE CABLE.
- 8. MULTIPLE CONDUIT RUNS IN THE SAME TRENCH SHALL BE JACK AND BORED OR DIRECTIONAL BORED FOR THE 1ST CONDUIT ONLY WHERE NEW CONSTRUCTION IS NOT BEING PERFORMED. SUBSEQUENT CONDUITS WILL BE PAID FOR AS UNDERGROUND.
- 9. PEDESTRIAN SIGNAL INDICATIONS SHALL BE COUNTDOWN TYPE.
- 10. ANY EXISTING LOOPS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST. TEMPORARY DETECTION WILL BE REQUIRED AT NO ADDITIONAL COST WHENEVER REPAIRS CANNOT BE MADE IN A TIMELY FASHION.
- 11. ALL TYPE F LOOPS SHALL BE 6 FEET WIDE BY 40 FEET LONG AND EXTEND 5 FEET BEYOND THE STOP BAR UNLESS OTHERWISE NOTED IN THE PLANS.
- 12. ALL DETECTOR LOOPS SHALL BE CUT ONTO THE ASPHALTIC CONCRETE STRUCTURAL COURSE BEFORE PLACEMENT OF FRICTION COURSE WHENEVER POSSIBLE. ALL LOOP LEAD-IN CABLES SHALL BE PLACED IN CONDUIT.

SIGNALIZATION NOTES (CONT.)

- 13. FTP-25-04 & R10-3E SIGNS SHALL BE INSTALLED AT EACH PEDESTRIAN DETECTOR.
- 14. PUSH BUTTONS SHALL BE CONSTRUCTED WITH MECHANICAL CONTACTS. MICROSWITCHES SHALL NOT BE USED.
- 15. UNLESS OTHERWISE NOTED, ALL REMOVED EQUIPMENT SHALL BE DELIVERED TO THE MAINTAINING AGENCY. CONTACT THE MARION COUNTY TRAFFIC SIGNAL SHOP (352-671-8369) TO COORDINATE DELIVERY.
- 16. DELAY TIMES FOR LOOPS MARKED "DELAY" SHALL BE SET TO 5 SECONDS.
- 17. THE CONTRACTOR IS REQUIRED TO INSPECT THE INSTALLATION OF THE TRAFFIC SIGNALS IN ACCORDANCE WITH FDOT SPECIFICATION 105-5.10. THE CONTRACTOR SHALL COORDINATE THE FINAL ACCEPTANCE INSPECTION IN ACCORDANCE WITH FDOT SPECIFICATION 611-2.2 WITH THE ENGINEER AT LEAST TEN DAYS IN ADVANCE. MARION COUNTY AND RAY MARLIN AT (386)-943-5318 SHOULD ALSO BE CONTACTED TEN DAYS BEFORE THE INSPECTION IS TO BE PERFORMED SO THEY MAY BE PRESENT.
- 18. CONTRACTOR SHALL HAND DIG FIRST 4 FEET AT EACH POLE LOCATION TO VERIFY NO UTILITY CONFLICTS.
- 19. THREE SPARE CONDUCTORS ARE TO BE RUN TO THE FURTHEST PEDESTRIAN SIGNAL HEAD.
- 20. ALL PEDESTRIAN HEADS AND PEDESTRIAN BUTTONS SHALL HAVE WEEP HOLES.

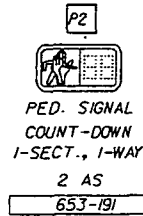
PAY ITEM NOTES

- 665-II PAYMENT FOR FTP-25-04 & R10-E SHALL BE INCLUDED IN THIS PAY ITEM.
- 690-20 COST OF DELIVERY TO THE MAINTAINING AGENCY OF ALL REMOVED EQUIPEMENT
- 690-31 SHALL BE PAID FOR UNDER THESE PAY ITEMS
- 690-70
- 690-90
- 690-100

REVISIONS						HNTB HNTB CORPORATION 300 PRIMERA BLVD., SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: DAVID W. GYNN, JR., PE FL REGISTRATION NO. 43967	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO. T-3
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
							326	MARION	417005-1-52-01		

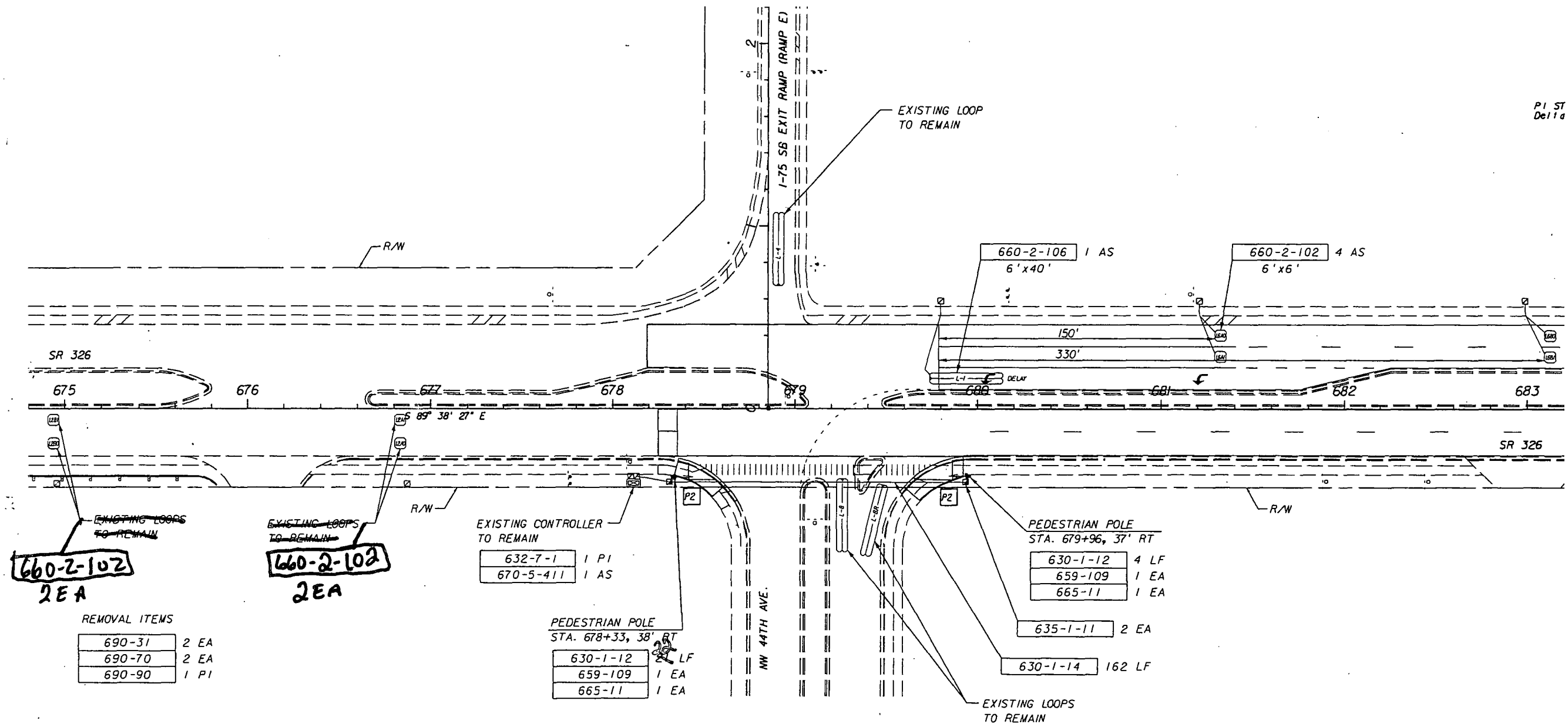
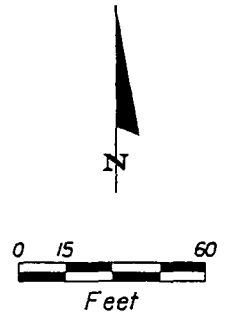
NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G5-23.003, F.A.C.

SIGNAL HEAD DETAILS



NOTES:

1. THE MAJOR STREET IS SR 326 AND THE MINOR STREET IS NW 44TH AVE./I-75 SOUTHBOUND EXIT RAMP (RAMP E).
2. THE SPEED LIMIT ON SR 326 IS 45 MPH.
3. EXCEPT WHERE OTHERWISE SHOWN, THE CONTRACTOR SHALL UTILIZE EXISTING PULL BOXES AND CONDUIT TO CONNECT NEW LOOPS TO EXISTING CONTROLLER.
4. EXISTING CONTROLLER TIMINGS SHALL BE USED.



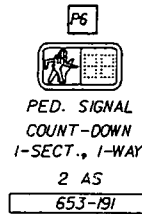
REVISIONS						HNTB	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SIGNALIZATION PLAN SHEET	SHEET NO. T-4
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				

HNTB
HNTB CORPORATION
300 PRIMA BLVD.,
SUITE 200
LAKE MARY, FL 32746
(407) 805-0355
CERT. OF AUTH. NO. 6500

ENGINEER OF RECORD: DAVID W. GYNN, JR., PE
FL REGISTRATION NO. 43967

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
326	MARION	417005-1-52-01

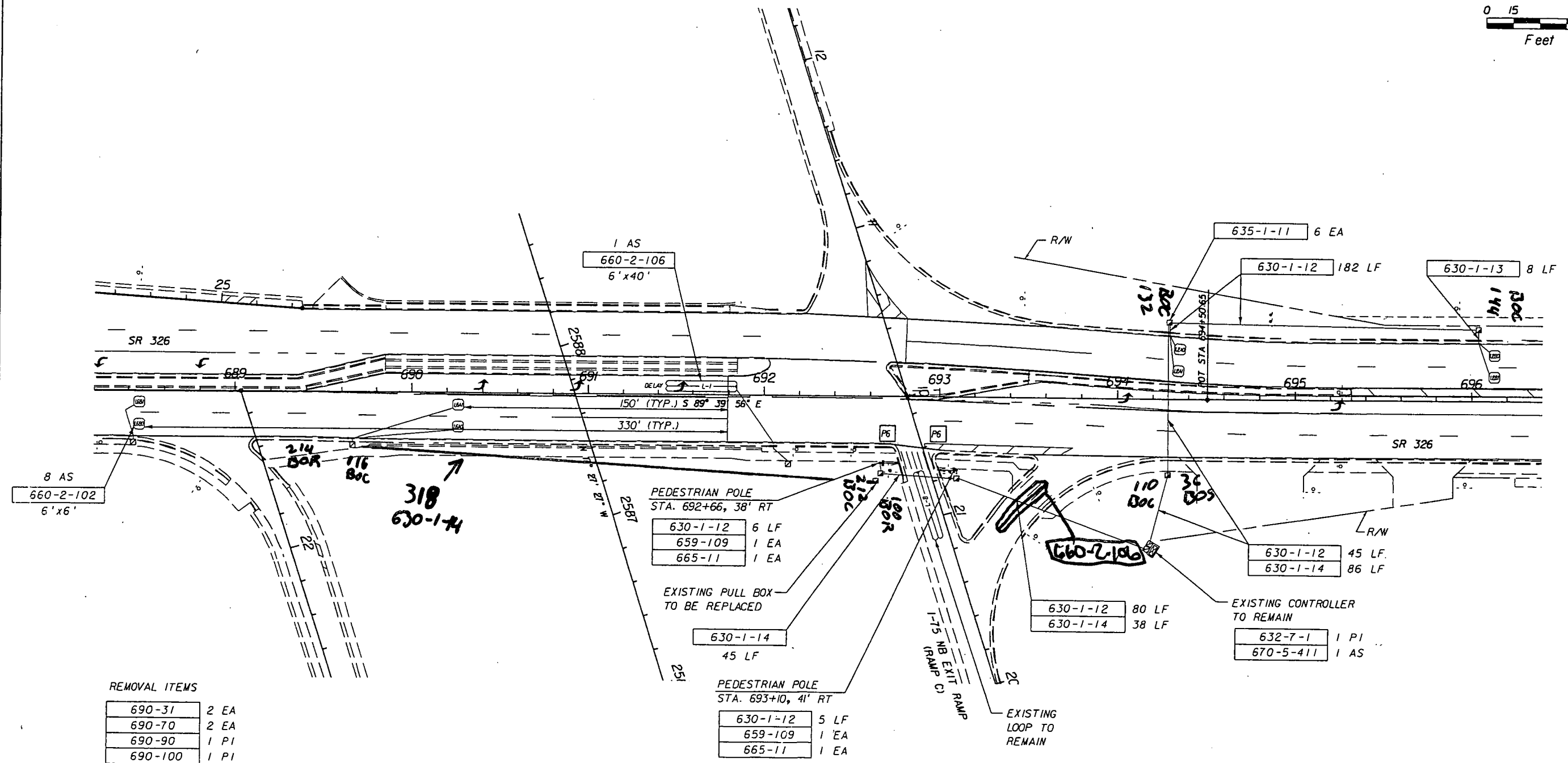
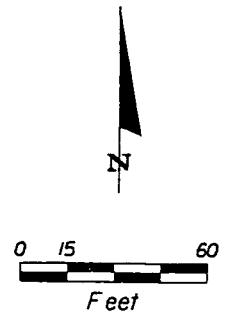
SIGNAL HEAD DETAILS



NOTES:

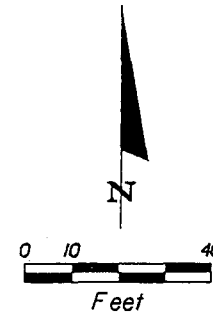
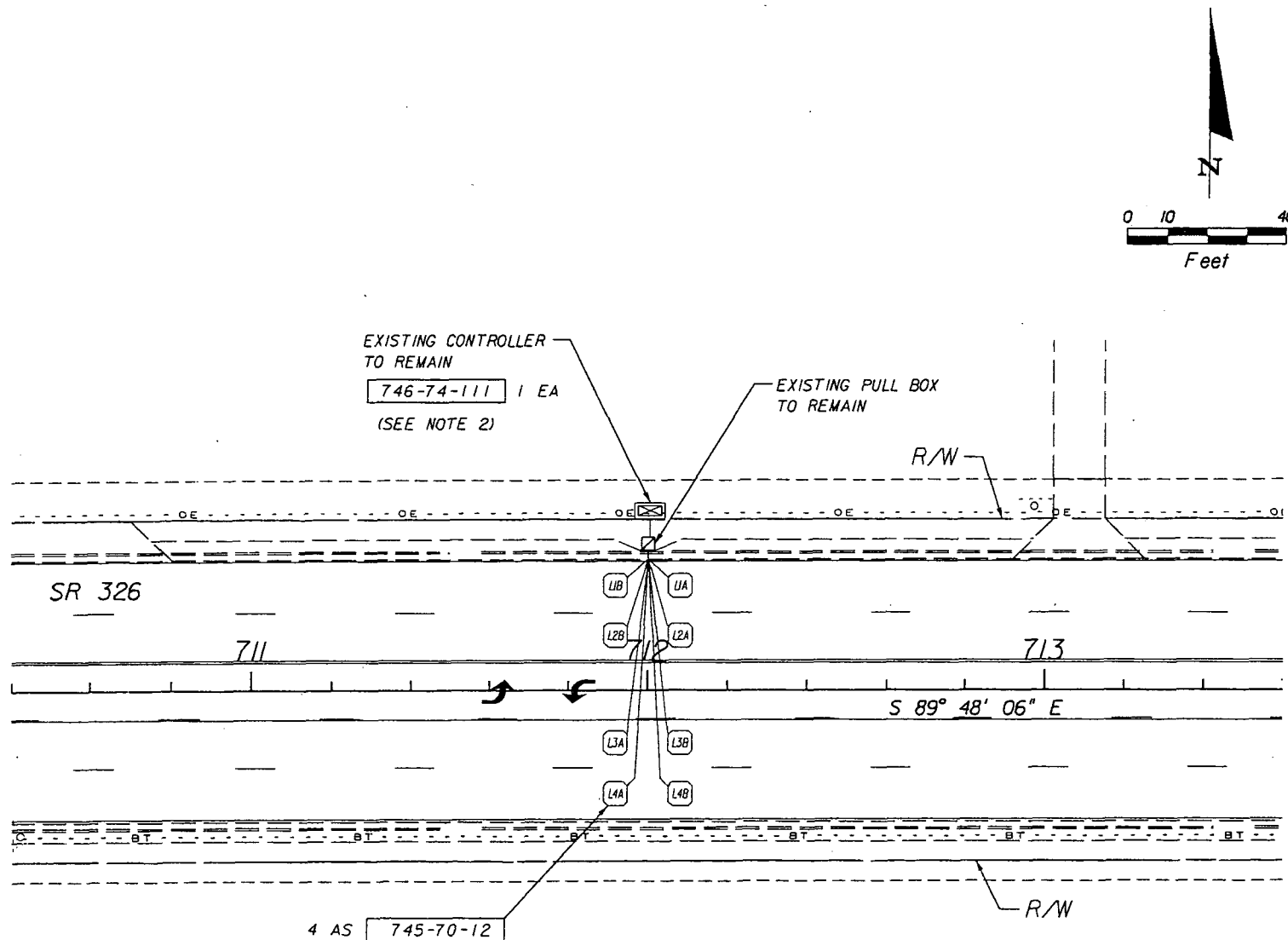
1. THE MAJOR STREET IS SR 326 AND THE MINOR STREET IS I-75 NORTHBOUND EXIT RAMP (RAMP C).
2. THE SPEED LIMIT ON SR 326 IS 45 MPH.
3. EXCEPT WHERE OTHERWISE SHOWN, THE CONTRACTOR SHALL UTILIZE EXISTING PULL BOXES AND CONDUIT TO CONNECT NEW LOOPS TO EXISTING CONTROLLER.
4. EXISTING CONTROLLER TIMINGS SHALL BE USED.

630-1-12 630-1-14
 6 318
 5 45
 80 38
 45 86
 182
 318 487



REVISIONS						HNTB	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	SIGNALIZATION PLAN SHEET	SHEET NO. T-5
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				
						HNTB CORPORATION 300 PRIMAVERA BLVD., SUITE 200 LAKE MARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: DAVID W. GWYNN, JR., PE FL REGISTRATION NO. 43967	ROAD NO. 326 COUNTY MARION FINANCIAL PROJECT ID 417005-1-52-01		

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G5-23.003, F.A.C.



STANDARD NOTES FOR TRAFFIC MONITORING SITES:

CONTRACTOR SHALL:

1. NOTIFY THE DISTRICT TRAFFIC OPERATIONS OFFICE AT LEAST TEN (10) WORKING DAYS PRIOR TO BEGINNING ANY WORK. CONTACT JERRY TRAUDT @ 386-943-5380 CONCERNING ANY QUESTIONS. THE DISTRICT TRAFFIC OPERATIONS OFFICE MUST APPROVE ANY CHANGE TO THE PROPOSED COUNT STATION LOCATION.
2. THE EXISTING BASE MOUNTED TYPE III TMS CABINET SHALL REMAIN. THE FOLLOWING EQUIPMENT SHALL BE INSTALLED AND SHALL BE PAID FOR UNDER PAY ITEM 746-74-III:
 - A BACKPLANE ASSEMBLY.
 - A "J" AND "P" AMPHENOL CLASSIFICATION AND STREETER-AMET 241 WIRING HARNESS.
3. FURNISH AND INSTALL LOOP ASSEMBLIES PER DESIGN STANDARDS 17503, 17721, 17781 AND 17900.
4. SPLICE ALL LOOP WIRES, IN PULL BOX (EXISTING), TO SHIELDED HOMERUN CABLE (INCLUDED IN THE LOOP ASSEMBLY), AND EXTEND THEM THROUGH A 2" CONDUIT (EXISTING) TO THE CABINET. TEST AND IDENTIFY ALL LOOPS AND LEAVE DOCUMENTATION IN THE CABINET.

NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G15-23.003, F.A.C.

REVISIONS						HNTB HNTB CORPORATION 300 PRIMERA BLVD., SUITE 200 LAKE WARY, FL 32746 (407) 805-0355 CERT. OF AUTH. NO. 6500 ENGINEER OF RECORD: DAVID W. GWYNN, JR., PE FL REGISTRATION NO. 43967	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TRAFFIC MONITORING SITE TMS 360465VL	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		T-7
						326	MARION	417005-1-52-01			