

STATE OF FLORIDA  
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS

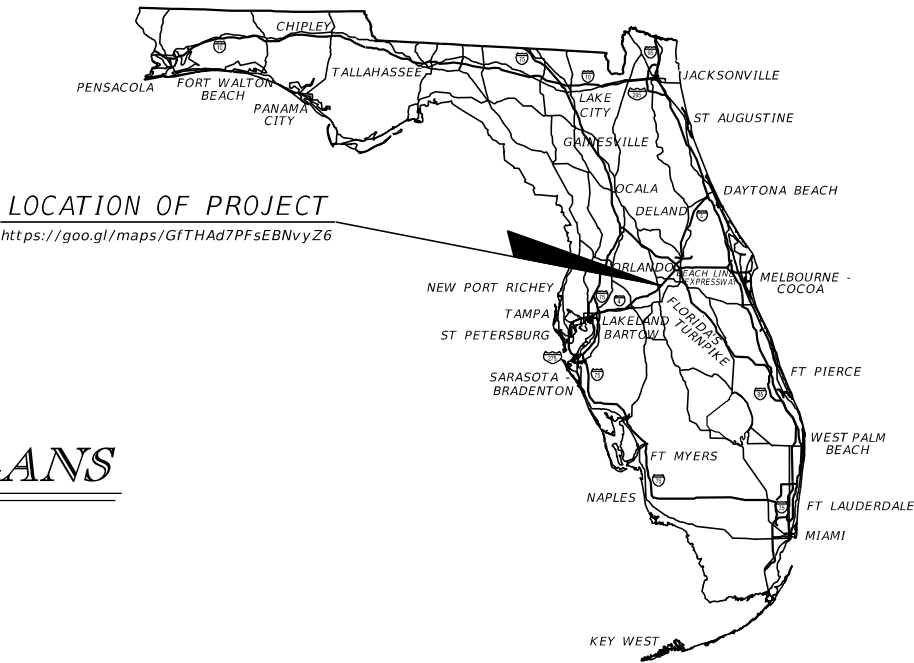
FINANCIAL PROJECT ID 444187-1-52-01  
(FEDERAL FUNDS)  
OSCEOLA COUNTY (92000)

COUNTY ROAD NO. 532  
DIVERGING DIAMOND INTERCHANGE RETROFIT

SIGNING AND PAVEMENT MARKINGS PLANS

INDEX OF SIGNING AND  
PAVEMENT MARKING PLANS

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S-37 - S-38	REPORT OF SPT BORINGS RESULT



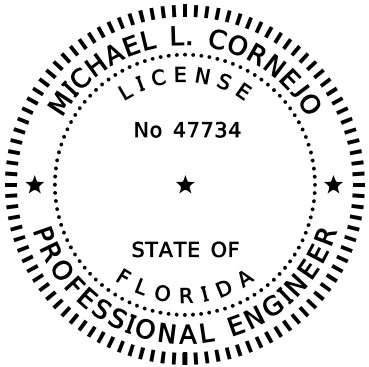
SIGNING AND PAVEMENT  
MARKING PLANS  
ENGINEER OF RECORD:

MICHAEL L. CORNEJO, P.E.  
P.E. NO.: 47734  
HNTB CORPORATION  
610 CRESCENT EXECUTIVE COURT, SUITE 400  
LAKE MARY, FL 32746  
(407) 805-0355  
CONTRACT NO: PS-11062DG  
VENDER NO.: F431623092-009

OSCEOLA COUNTY PROJECT MANAGER:  
CONROY JACOBS  
(407) 742-0557

FDOT PROJECT MANAGER:  
ANTHONY MILLER  
(386) 943-5530

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
T 5715	21	S-1



THIS ITEM HAS BEEN DIGITALLY  
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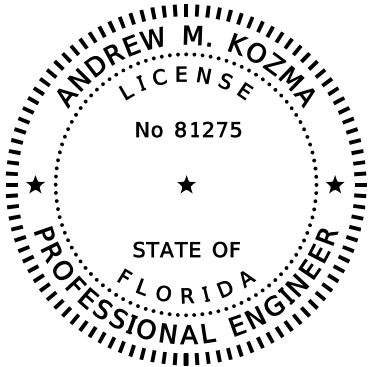
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HNTB CORPORATION  
610 CRESCENT EXECUTIVE CT. SUITE 400  
LAKE MARY, FLORIDA 32746  
MICHAEL L. CORNEJO, P.E. NO. 47734

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE  
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004 F.A.C.

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
S-1	KEY SHEET
S-2	SIGNATURE SHEET
S-3 - S-4	TABULATION OF QUANTITIES
S-5	GENERAL NOTES
S-6	PROJECT LAYOUT
S-7 - S-24	SIGNING AND PAVEMENT MARKING PLANS
S-25 - S-28	GUIDESIGN WORKSHEET
S-29 - S-34	CROSS SECTIONS



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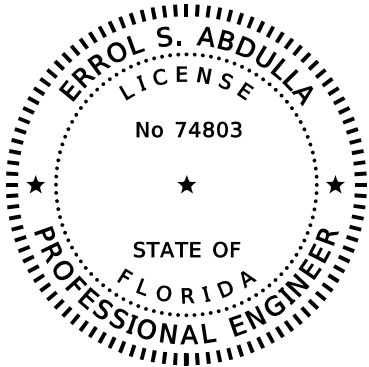
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HNTB CORPORATION  
610 CRESCENT EXECUTIVE CT. SUITE 400  
LAKE MARY, FLORIDA 32746  
ANDREW M. KOZMA, P.E. NO. 81275

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE  
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004 F.A.C.

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
S-2	SIGNATURE SHEET
S-35	CANTILEVER SIGN STRUCUTRES DATA TABLE
S-36	STRAIN POLE SCHEDULE AND DETAIL



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AWK CONSULTING ENGINEER, INC  
6457 HAZELTINE NATIONAL DR.  
SUITE 150  
ORLANDO, FLORIDA 32822  
ERROL S. ABDULLA, P.E. NO. 74803

THE ABOVE NAMED PROFESSIONAL ENGINEER SHALL BE RESPONSIBLE FOR THE  
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G15-23.004 F.A.C.

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
S-2	SIGNATURE SHEET
S-37 - S-38	REPORT OF SPT BORING RESULT

REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					CR 532	OSCEOLA	444187-1-52-01		
									S-2

# TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																				TOTAL THIS SHEET	
			S-7		S-8		S-9		S-10		S-11		S-12		S-13		S-14		S-15		S-16			
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL		
634-4-151	SPAN WIRE ASSEMBLY, F&I, TWO POINT, PERPENDICULAR	PI																						
641-2-18	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VIII	EA																						
700-1-11	SINGLE POST SIGN, F&I FROUND MOUNT, 12-20 SF	AS	3		19						9				5		1						37	
700-1-12	SINGLE POST SIGN, F&I FROUND MOUNT, 12-20 SF	AS	4		6						6												16	
700-1-14	SINGLE POST SIGN, F&I GROUND MOUNT, 31+ SF	AS			1						1												2	
700-1-21	SINGLE POST SIGN, F&I BARRIER MOUNT INDEX 11871/700-013 UP TO 12 SF	AS			1																		1	
700-1-50	SINGLE POST SIGN, RELOCATE	AS	3																				3	
700-1-60	SINGLE POST SIGN, REMOVE	AS	4		12						9				2		1				2		30	
700-2-14	MULTI- POST SIGN, F&I GROUND MOUNT, 31-50 SF	AS							2														2	
700-2-15	MULTI- POST SIGN, F&I GROUND MOUNT, 51-100 SF	AS								2													2	
700-2-16	MULTI- POST SIGN, F&I GROUND MOUNT, 101-200 SF	AS	1													1							2	
700-2-50	MULTI- POST SIGN, GROUND MOUNT, RELOCATE	AS																						
700-2-60	MULTI- POST SIGN, GROUND MOUNT, REMOVE	AS																						
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA																						
700-3-202	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 12-20 SF	EA																						
700-3-206	SIGN PANEL, F&I OVERHEAD MOUNT, 101-200 SF	EA			2										2								4	
700-4-114	OVERHEAD STATIC SIGN STRUCTURE, F&I, CANTILEVER, 41-50 FT	EA			1										1								2	
700-13-12	RETROREFLECTIVE SIGN STRIP- F&I, 2'	EA			6						2												8	
705-10-3	OBJECT MARKER, TYPE 3	EA			2						2												4	
705-11-1	DELINEATOR, FLEXIBLE TUBULAR	EA	2																				2	
710-11-190	THERMO, STD, WHITE, ISLAND NOSE	SF					7							8									15	
710-11-290	THERMO, STD, YELLOW, ISLAND NOSE	SF	87				8							15									110	
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS																						
*	RAISED PAVEMENT MARKER, TYPE B, WHITE/RED	EA	133				93		22					79		78			8		30		443	
*	RAISED PAVEMENT MARKER, TYPE B, YELLOW/RED	EA					19							28					8		15		70	
*	RAISED PAVEMENT MARKER, TYPE B, YELLOW/YELLOW	EA	9																				9	
*	RAISED PAVEMENT MARKER, TYPE B, MONO/YELLOW	EA	127				24							45									196	
*	RAISED PAVEMENT MARKER, TYPE B, MONO/WHITE	EA					23							26									49	
*	PAINTED PAVEMENT MARKINGS, -SEE THERMO MARKING FOR QUANT.	VARIES																						
711-11-124	THERMO, STD, WHITE, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	63				116		5					153							38		376	
711-11-125	THERMO, STD, WHITE, SOLID, 24" FOR STOP LINE	LF	38				127							98									263	
711-11-141	THERMO, STD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXT., 6"	GM	0.096				0.235							0.203		0.105							0.640	
711-11-160	THERMO, STD, WHITE, MESSAGE OR SYMBOL	EA	2						12												1		15	
711-11-170	THERMO, STD, WHITE, ARROWS	EA	5				15		4					12		5					1		42	
711-11-180	THERMO, STD, WHITE, YIELD LINE	LF												15									15	
711-11-224	THERMO, STD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF					37							154									191	
711-14-123	THERMO, PREFORMED, WHITE, SOLID, 12" FOR CROSSWALK	LF	215				293							293									801	
711-14-125	THERMO, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	143				200							200									543	
711-14-160	THERMO, PREFORMED, BIKE SYMBOL	EA	1				5		2					5		2							15	
711-14-170	THERMO, PREFORMED, BIKE ARROW	EA	1				5		2					5		2							15	
711-14-660	THERMO, PREFORMED, MULTI COLOR ROUTE SHIELD	EA					1		3														4	
711-16-101	THERMO, STD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.115				0.476		0.209					0.437		0.474			0.047		0.100		1.858	
711-16-102	THERMO, STD-OTHER SURFACES, WHITE, SOLID, 8"	GM	0.087				0.076		0.016					0.088		0.004					0.032		0.302	
711-16-131	THERMO, STD-OTHER SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM	0.086				0.121		0.105					0.115		0.191					0.023		0.641	
711-16-201	THERMO, STD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.102				0.242		0.105					0.214		0.203			0.047		0.100		1.013	
711-16-202	THERMO, STD-OTHER SURFACES, YELLOW, SOLID, 8"	GM					0.016							0.051							0.002		0.069	

\* 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 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.

REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-3
					CR 532	OSCEOLA	444187-1-52-01		

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

# TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		GRAND TOTAL	
			S-17		S-18		S-19		S-20		S-21		S-22		S-23		S-24							
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
634-4-151	SPAN WIRE ASSEMBLY, F&I, TWO POINT, PERPENDICULAR	PI											1								1		1	
641-2-18	PRESTRESSED CONCRETE POLE, F&I, TYPE P-VIII	EA											2								2		2	
700-1-11	SINGLE POST SIGN, F&I FROUND MOUNT, 12-20 SF	AS					6								2						8		45	
700-1-12	SINGLE POST SIGN, F&I FROUND MOUNT, 12-20 SF	AS			1																1		17	
700-1-14	SINGLE POST SIGN, F&I GROUND MOUNT, 31+ SF	AS																					2	
700-1-21	SINGLE POST SIGN, F&I BARRIER MOUNT INDEX 11871/700-013 UP TO 12 SF	AS																					1	
700-1-50	SINGLE POST SIGN, RELOCATE	AS											1								1		4	
700-1-60	SINGLE POST SIGN, REMOVE	AS					3						3								6		36	
700-2-14	MULTI- POST SIGN, F&I GROUND MOUNT, 31-50 SF	AS					1								1						2		2	
700-2-15	MULTI- POST SIGN, F&I GROUND MOUNT, 51-100 SF	AS																					2	
700-2-16	MULTI- POST SIGN, F&I GROUND MOUNT, 101-200 SF	AS																					2	
700-2-50	MULTI- POST SIGN, GROUND MOUNT, RELOCATE	AS													2						2		2	
700-2-60	MULTI- POST SIGN, GROUND MOUNT, REMOVE	AS					1								1						2		2	
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA											5								5		5	
700-3-202	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, 12-20 SF	EA											1								1		1	
700-3-206	SIGN PANEL, F&I OVERHEAD MOUNT, 101-200 SF	EA																					4	
700-4-114	OVERHEAD STATIC SIGN STRUCTURE, F&I, CANTILEVER, 41-50 FT	EA																					2	
700-13-12	RETROREFLECTIVE SIGN STRIP- F&I, 2'	EA					6								2						8		16	
705-10-3	OBJECT MARKER, TYPE 3	EA																					4	
705-11-1	DELINEATOR, FLEXIBLE TUBULAR	EA					1						1								2		4	
710-11-190	THERMO, STD, WHITE, ISLAND NOSE	SF											4								4		19	
710-11-290	THERMO, STD, YELLOW, ISLAND NOSE	SF					4														4		114	
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS																					1	
*	RAISED PAVEMENT MARKER, TYPE B, WHITE/RED	EA	8		15		55		33		7		80		41		2				241		684	
*	RAISED PAVEMENT MARKER, TYPE B, YELLOW/RED	EA	8		15		16		29		7		15		15		2				107		177	
*	RAISED PAVEMENT MARKER, TYPE B, YELLOW/YELLOW	EA																					9	
*	RAISED PAVEMENT MARKER, TYPE B, MONO/YELLOW	EA					6														6		202	
*	RAISED PAVEMENT MARKER, TYPE B, MONO/WHITE	EA											15								15		64	
*	PAINTED PAVEMENT MARKINGS, -SEE THERMO MARKING FOR QUANT.	VARIES																						
711-11-124	THERMO, STD, WHITE, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF					64		418		103		43		87		23				737		1113	
711-11-125	THERMO, STD, WHITE, SOLID, 24" FOR STOP LINE	LF																					263	
711-11-141	THERMO, STD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXT., 6"	GM																					0.640	
711-11-160	THERMO, STD, WHITE, MESSAGE OR SYMBOL	EA																					15	
711-11-170	THERMO, STD, WHITE, ARROWS	EA					13						16		18						47		89	
711-11-180	THERMO, STD, WHITE, YIELD LINE	LF																					15	
711-11-224	THERMO, STD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF							361		75										436		627	
711-14-123	THERMO, PREFORMED, WHITE, SOLID, 12" FOR CROSSWALK	LF																					801	
711-14-125	THERMO, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF																					543	
711-14-160	THERMO, PREFORMED, BIKE SYMBOL	EA																					15	
711-14-170	THERMO, PREFORMED, BIKE ARROW	EA																					15	
711-14-660	THERMO, PREFORMED, MULTI COLOR ROUTE SHIELD	EA																					4	
711-16-101	THERMO, STD-OTHER SURFACES, WHITE, SOLID, 6"	GM	0.050		0.104		0.166		0.009				0.142		0.073						0.544		2.402	
711-16-102	THERMO, STD-OTHER SURFACES, WHITE, SOLID, 8"	GM					0.079		0.114		0.024		0.062		0.031		0.006				0.315		0.617	
711-16-131	THERMO, STD-OTHER SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM											0.174		0.179						0.353		0.993	
711-16-201	THERMO, STD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.050		0.105		0.109		0.001				0.098		0.106		0.006				0.474		1.487	
711-16-202	THERMO, STD-OTHER SURFACES, YELLOW, SOLID, 8"	GM							0.106		0.024										0.13		0.199	

\* 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 710 FOR THE NUMBER OF APPLICATIONS REQUIRED.

REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			TABULATION OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-4
					CR 532	OSCEOLA	444187-1-52-01		

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NOTES:

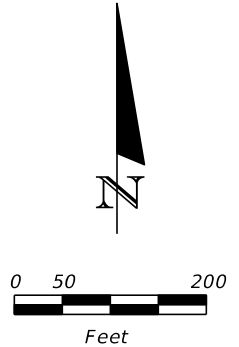
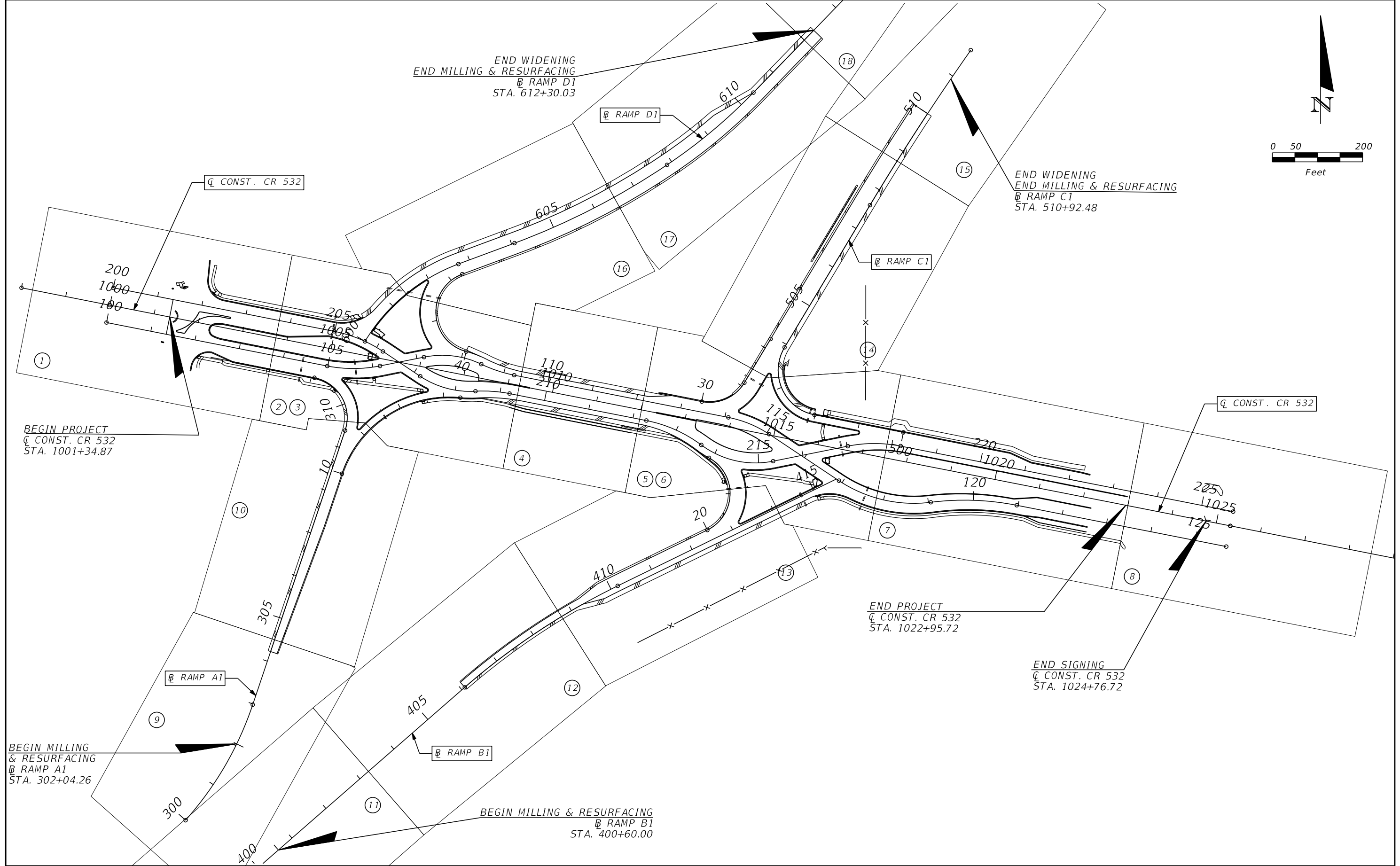
1.
- PAY ITEM NUMBER 700-1-12 TO INCLUDE RELOCATING THE STREET NAME SIGNS TO THE PROPOSED STOP SIGN ASSEMBLY USING A POST TOP SLIP FITTER. ALL ADDITIONAL COSTS FOR MOUNTING THE STREET NAME SIGNS, INCLUDING RE-DRILLING OF THE SIGNS, SHALL BE INCLUDED IN THE PAY ITEM.
2.
- PAY ITEM NUMBER 705-11-A SHALL INCLUDE THE REMOVAL OF ALL DELINEATORS WITHIN THE PROJECT LIMITS.
3.
- ALL CROSSWALK STRIPES MUST BE CENTERED ON CURB RAMPS.

MULTI-POST DESIGN SUMMARY TABLE

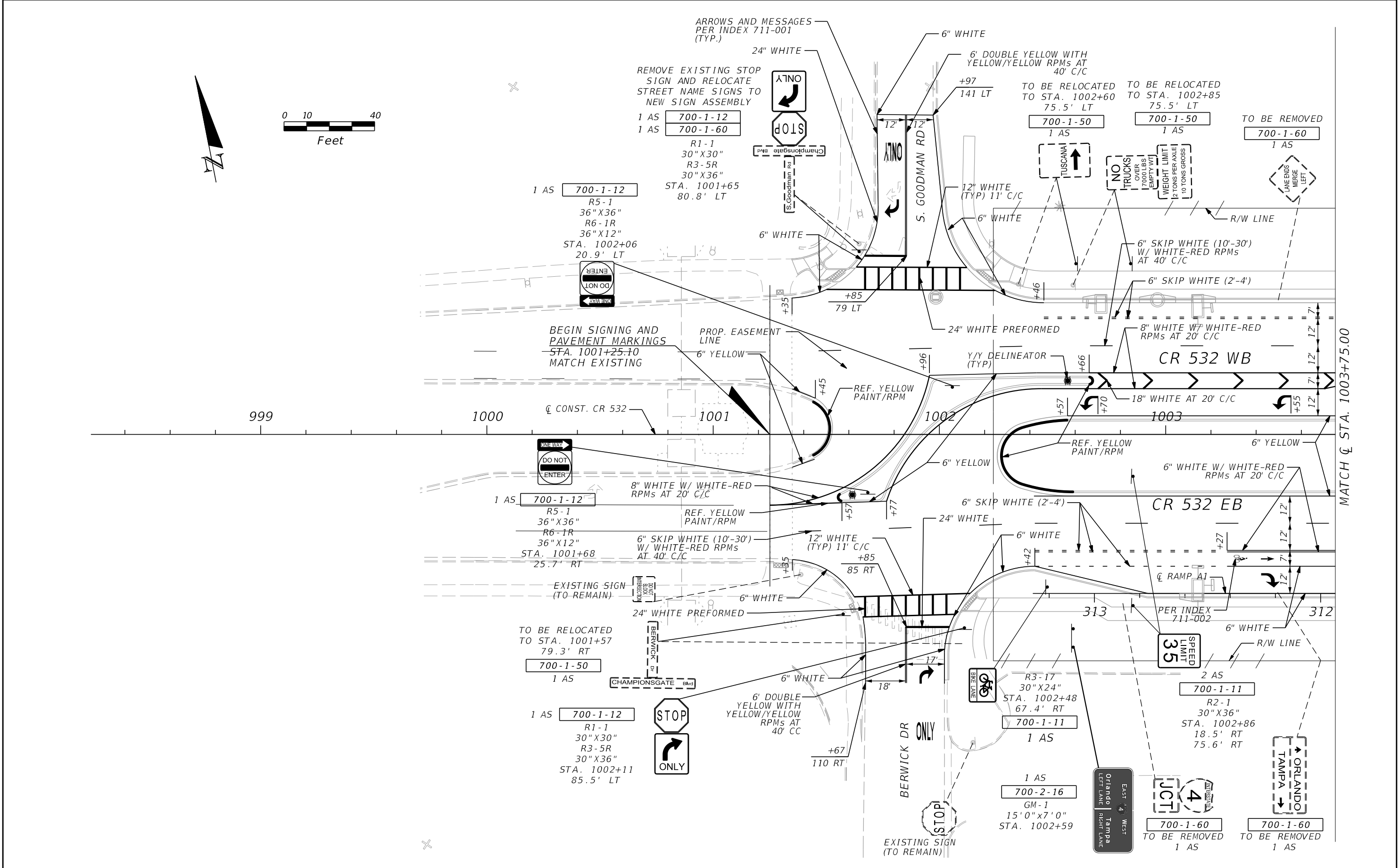
SIGN NAME	Post Size	Number of Posts	Average Length (ft)
GM- 1	W8 x 18	2	13.62
GM-2	W8 x 18	2	13.23
GM-5	W6 x 12	2	11.56
GM-6	W6 x 12	2	12.93
GM-7	W6 x 12	2	14.05
GM-8	W6 x 12	2	14.39

REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					CR 532	OSCEOLA	444187-1-52-01		S-5

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REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			PROJECT LAYOUT	SHEET NO.  S-6
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					CR 532	OSCEOLA	444187-1-52-01		

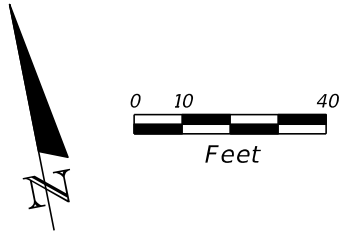
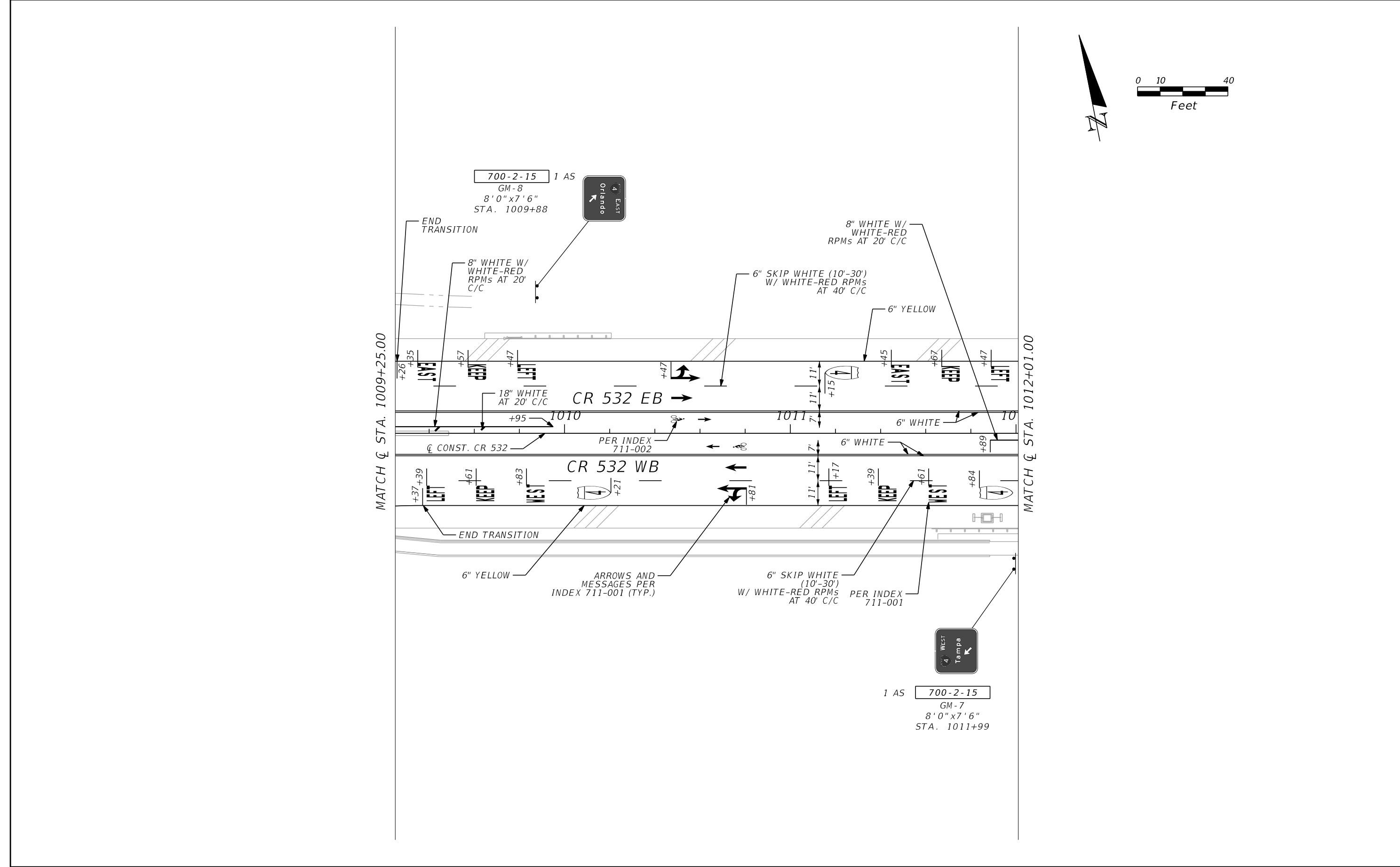


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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					CR 532	OSCEOLA	444187-1-52-01		







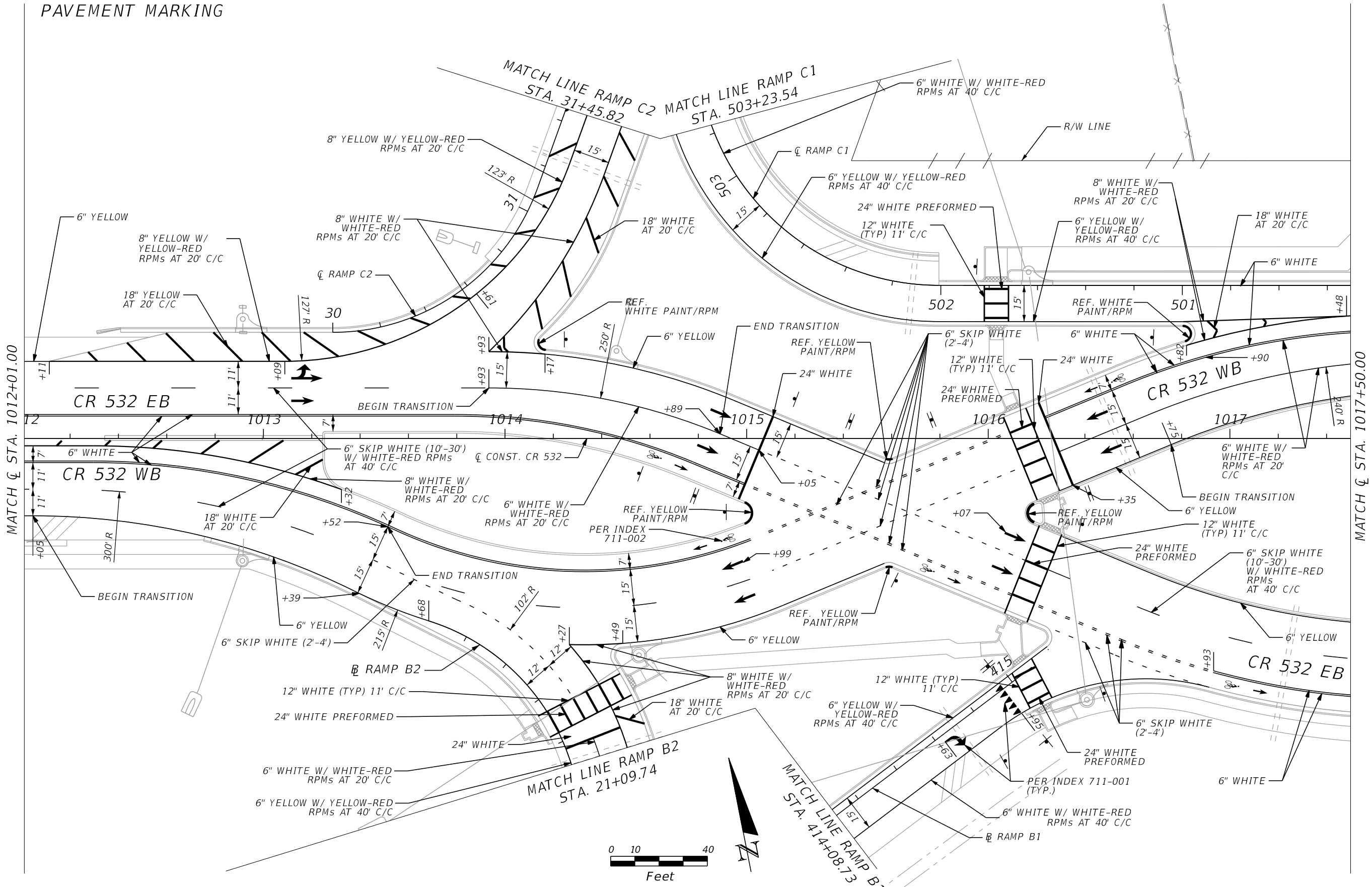


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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			S-10	
					CR 532	OSCEOLA	444187-1-52-01				

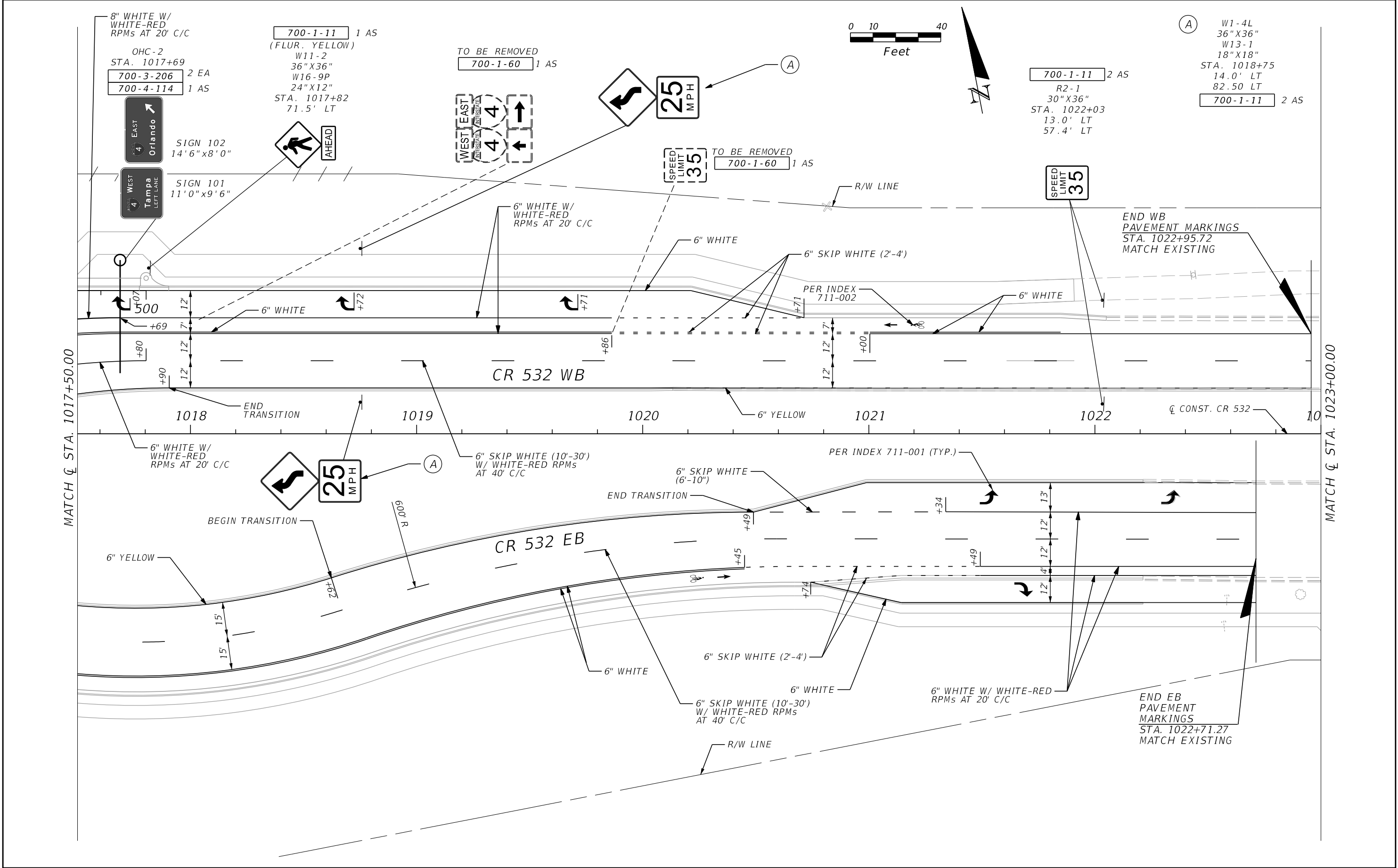
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



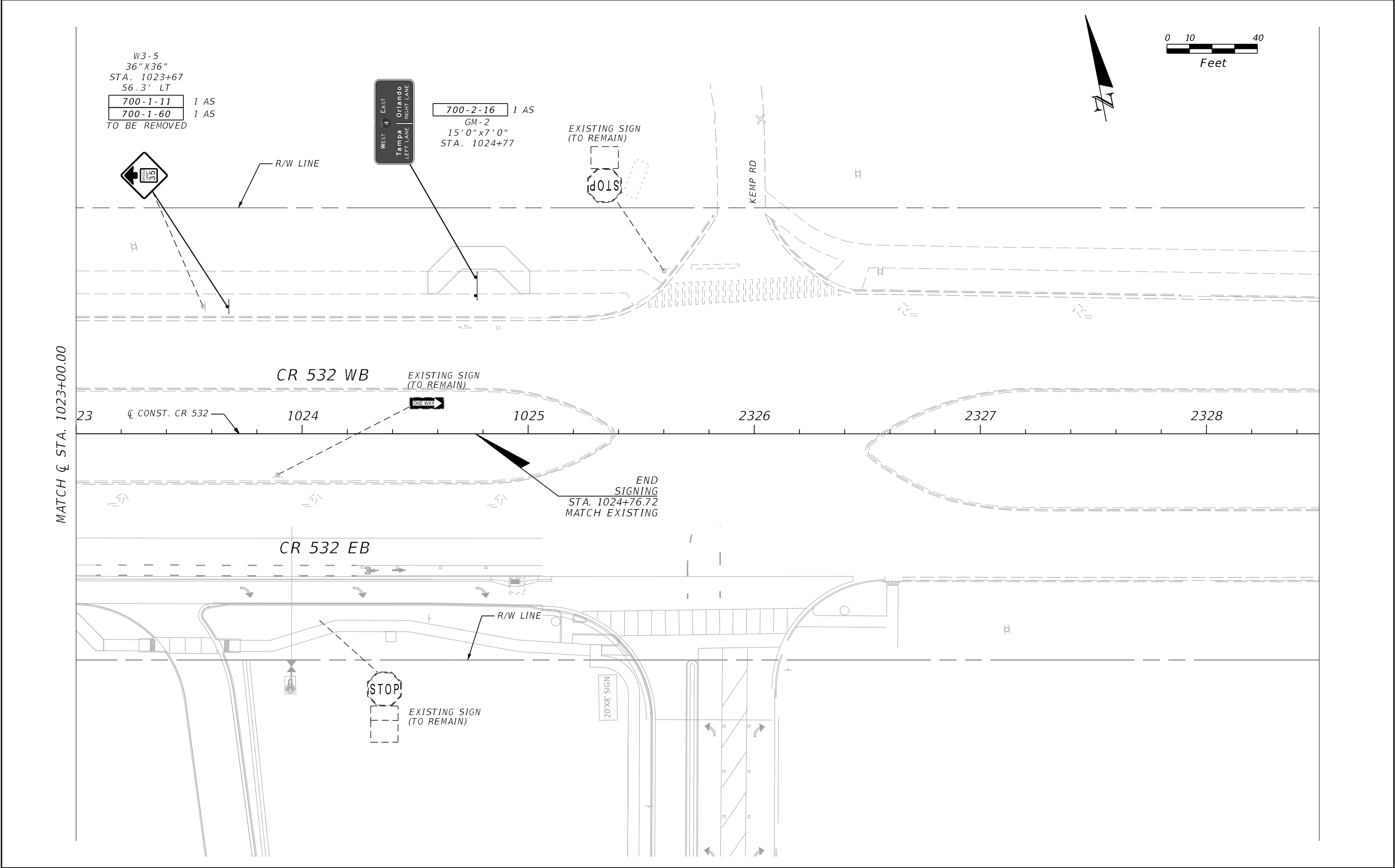
PAVEMENT MARKING



REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKING PLAN SHEET (6)	SHEET NO.  S-12
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					CR 532	OSCEOLA	444187-1-52-01		

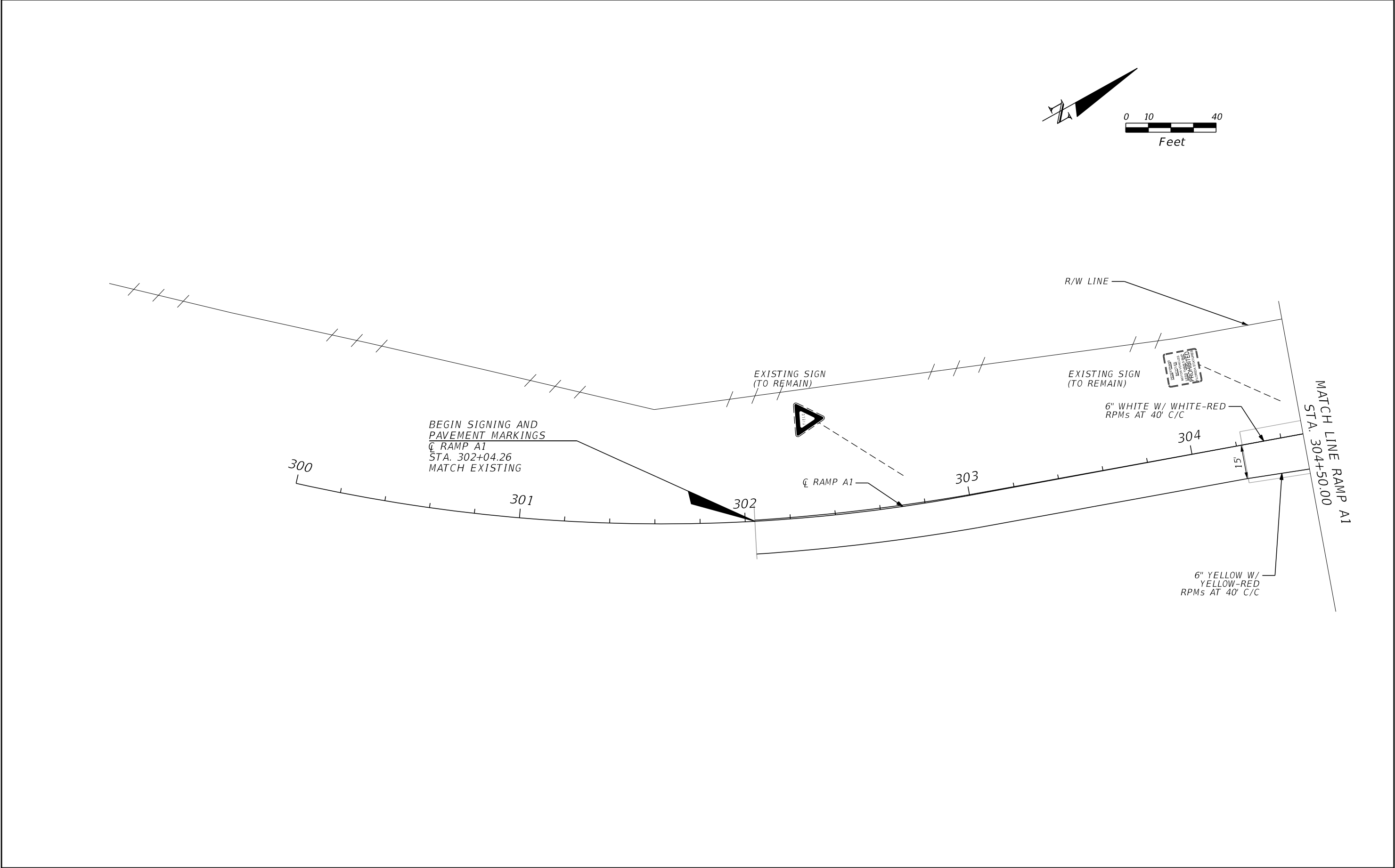


REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKING PLAN SHEET (7)		SHEET NO.  S-13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					CR 532	OSCEOLA	444187-1-52-01			



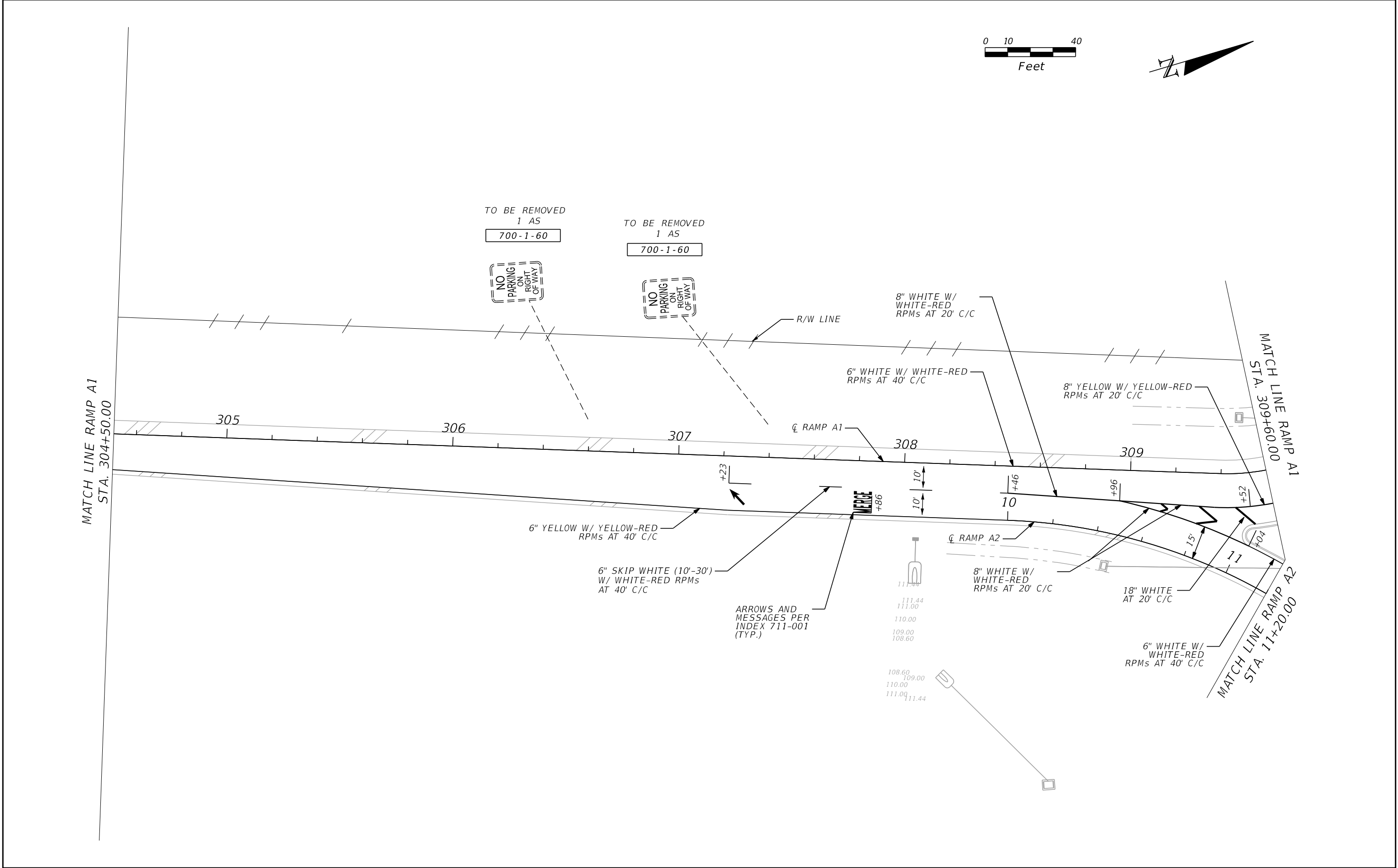
REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKING PLAN SHEET (8)		SHEET NO.	
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			S-14	
					CR 532	OSCEOLA	444187-1-52-01				

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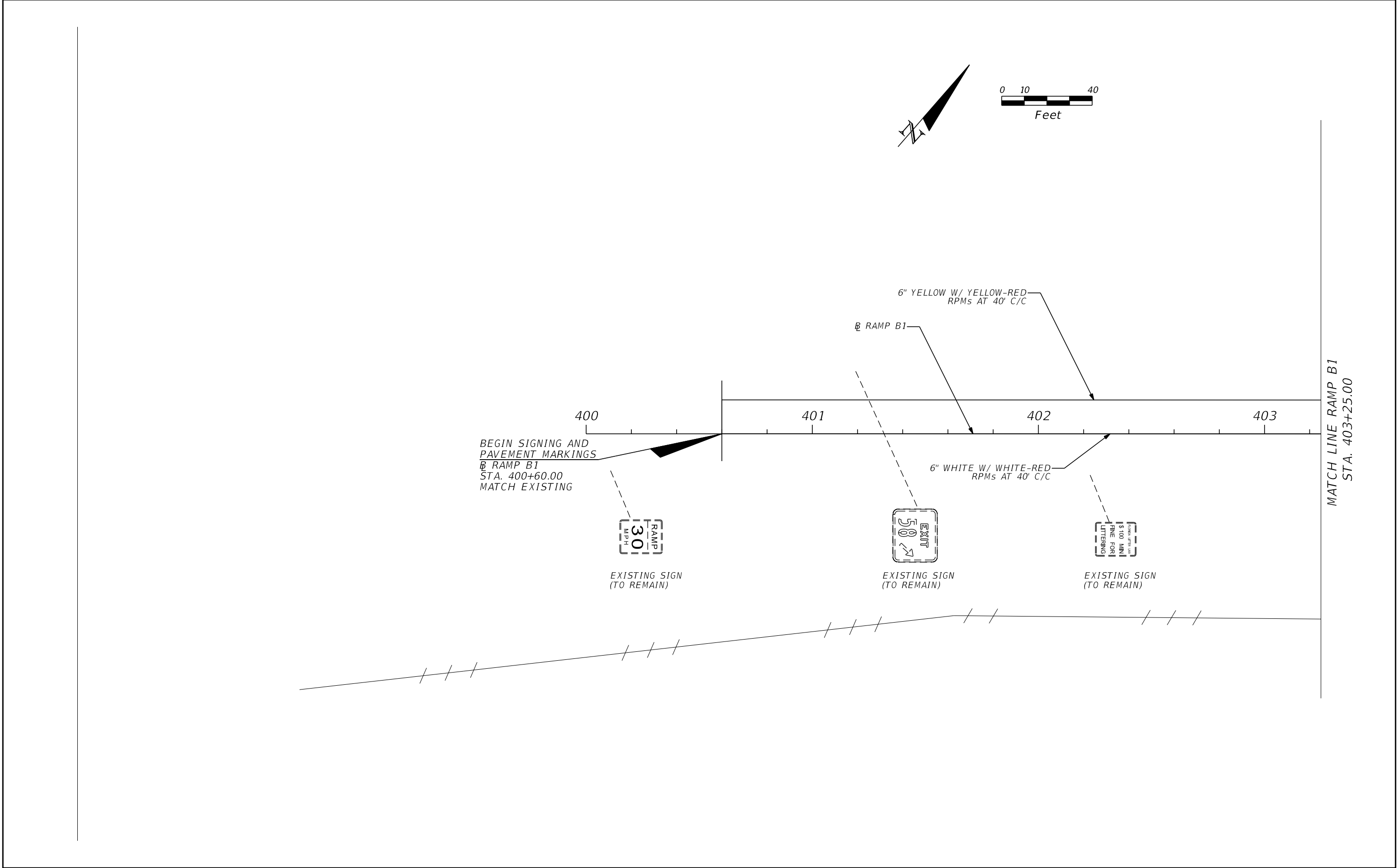
REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKING PLAN SHEET (9)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-15
					CR 532	OSCEOLA	444187-1-52-01		

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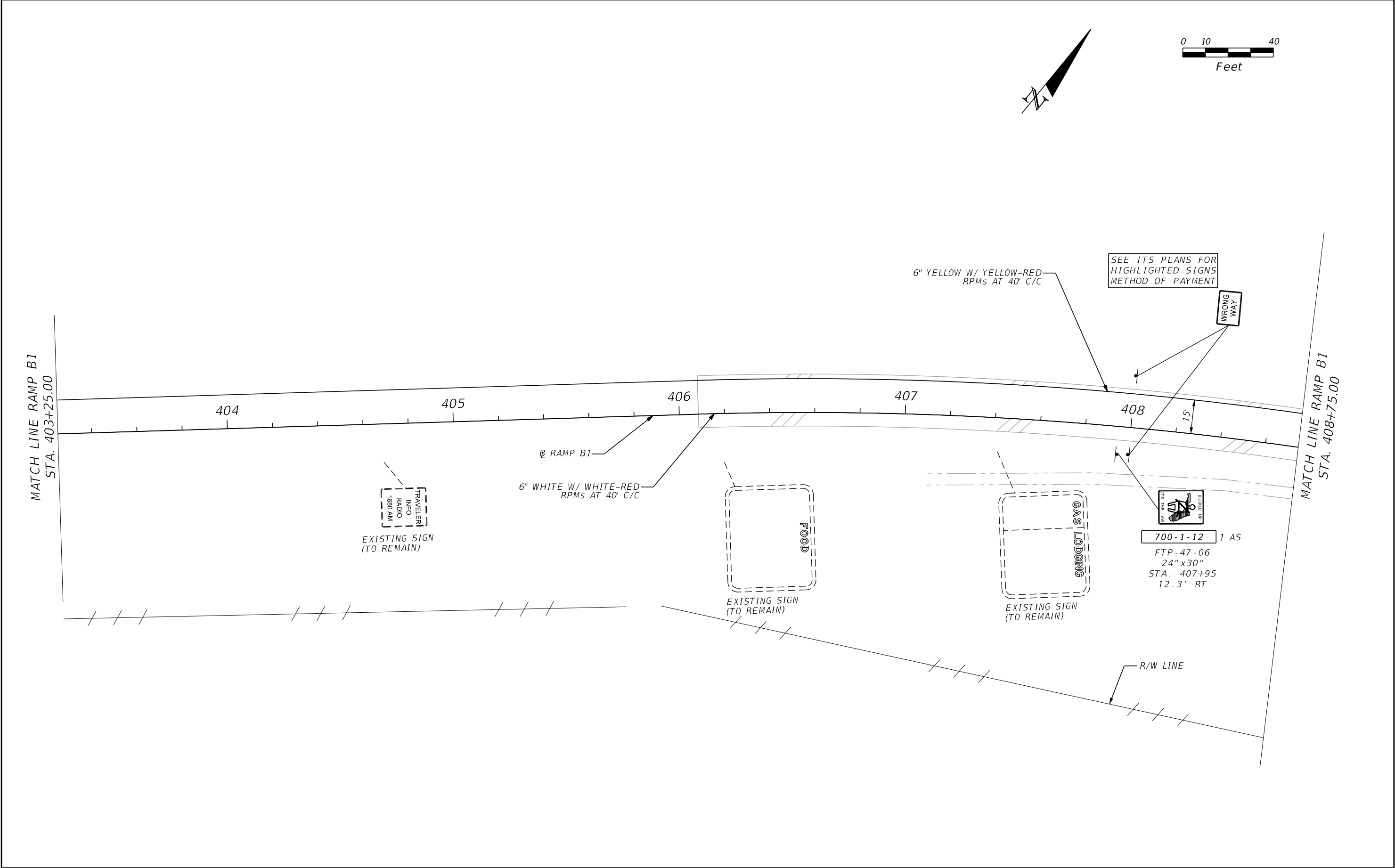


REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKING PLAN SHEET (10)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-16
					CR 532	OSCEOLA	444187-1-52-01		



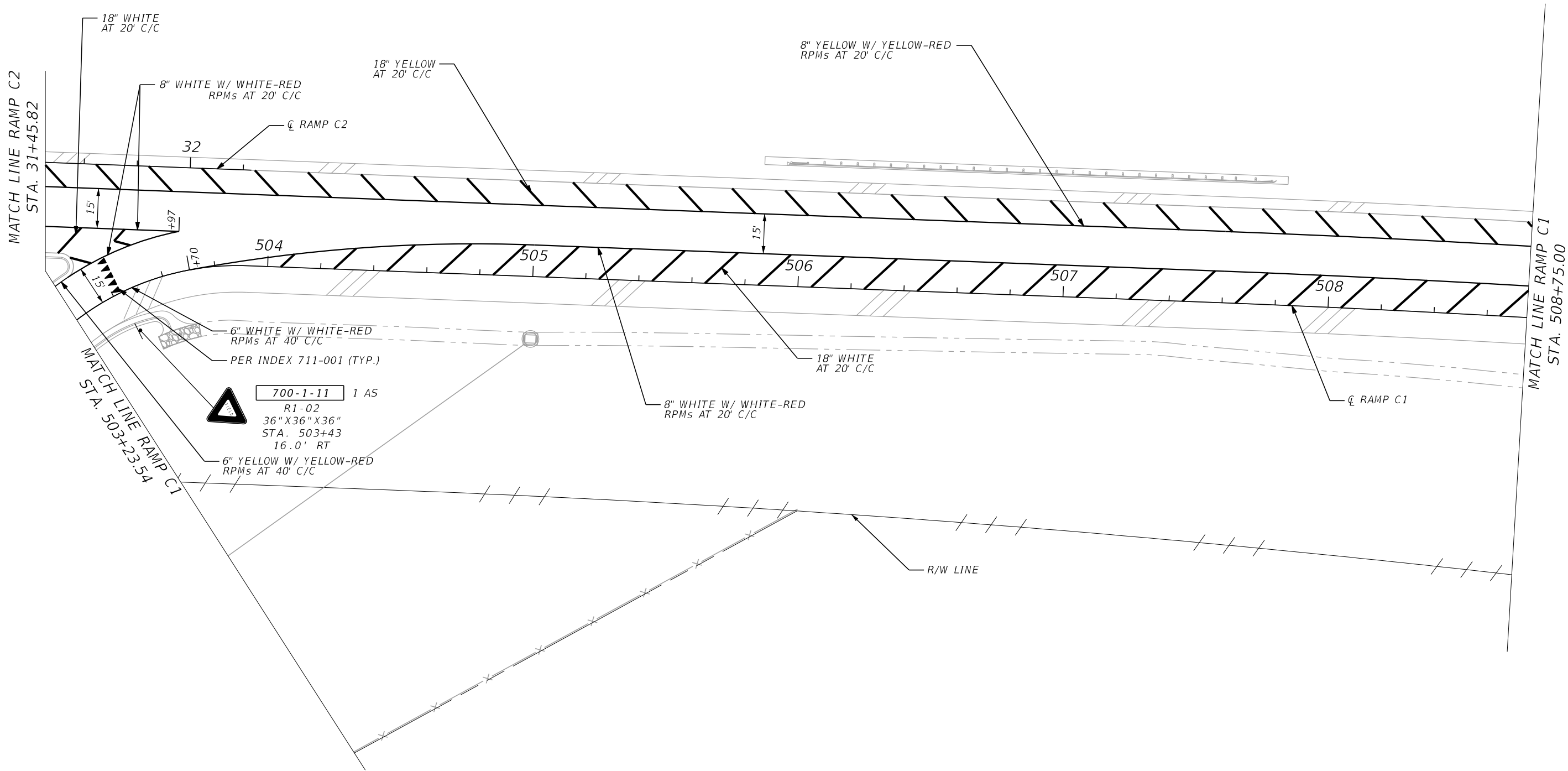
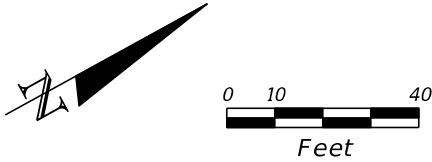


REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKING PLAN SHEET (11)		SHEET NO.	
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			S-17	
					CR 532	OSCEOLA	444187-1-52-01				



REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKING PLAN SHEET (12)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-18
					CR 532	OSCEOLA	444187-1-52-01		

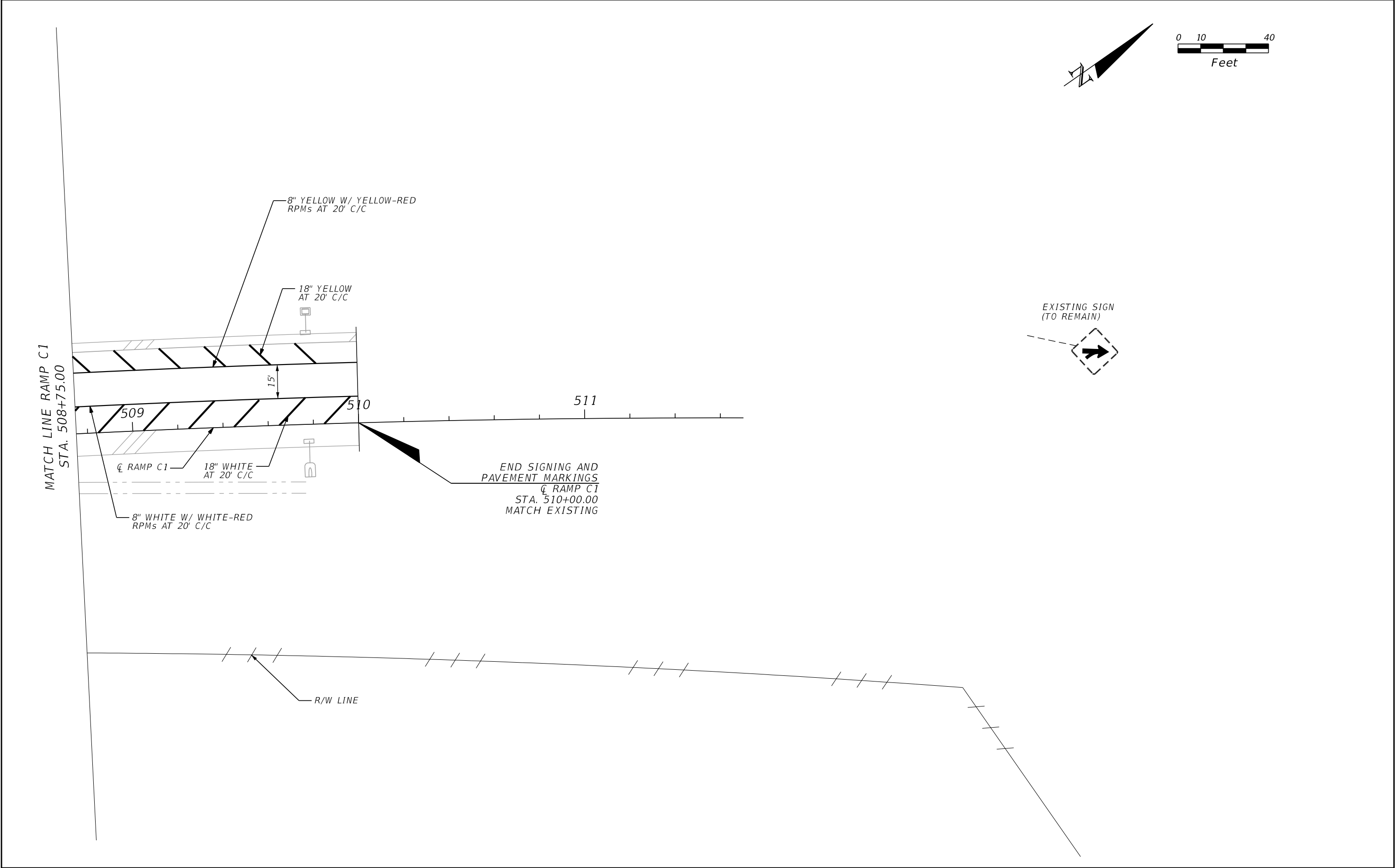




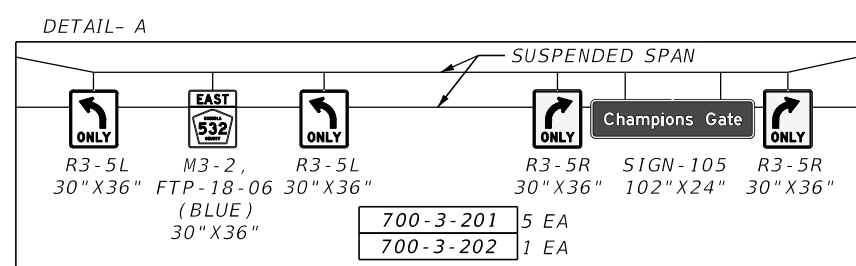
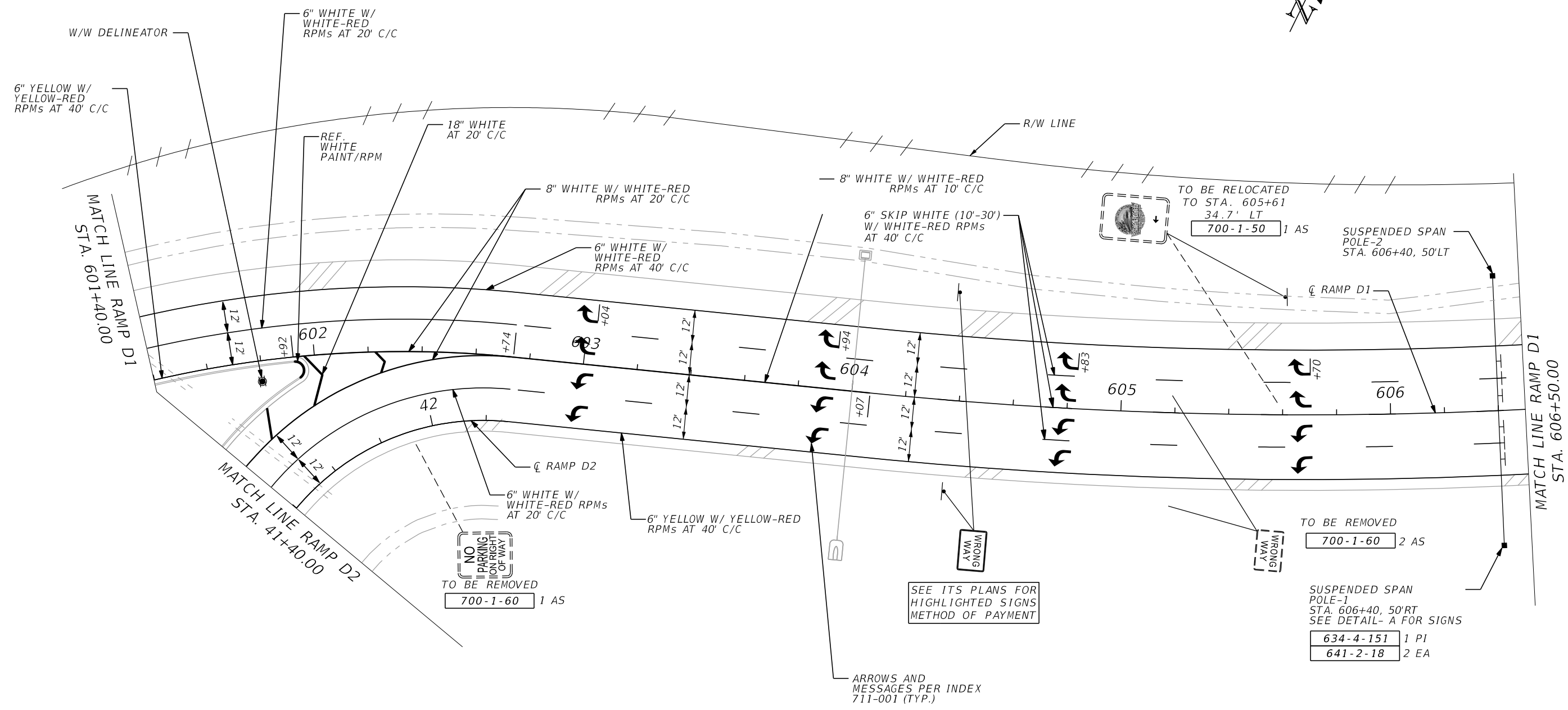
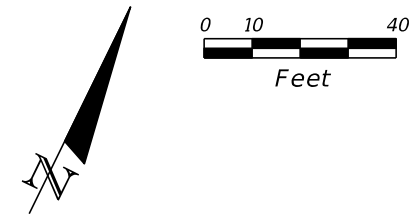
**700-1-11** 1 AS  
R1-02  
36" X 36" X 36"  
STA. 503+43  
16.0' RT  
6" YELLOW W/ YELLOW-RED  
RPMs AT 40' C/C

REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKING PLAN SHEET (14)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-20
				CR 532	OSCEOLA	444187-1-52-01			

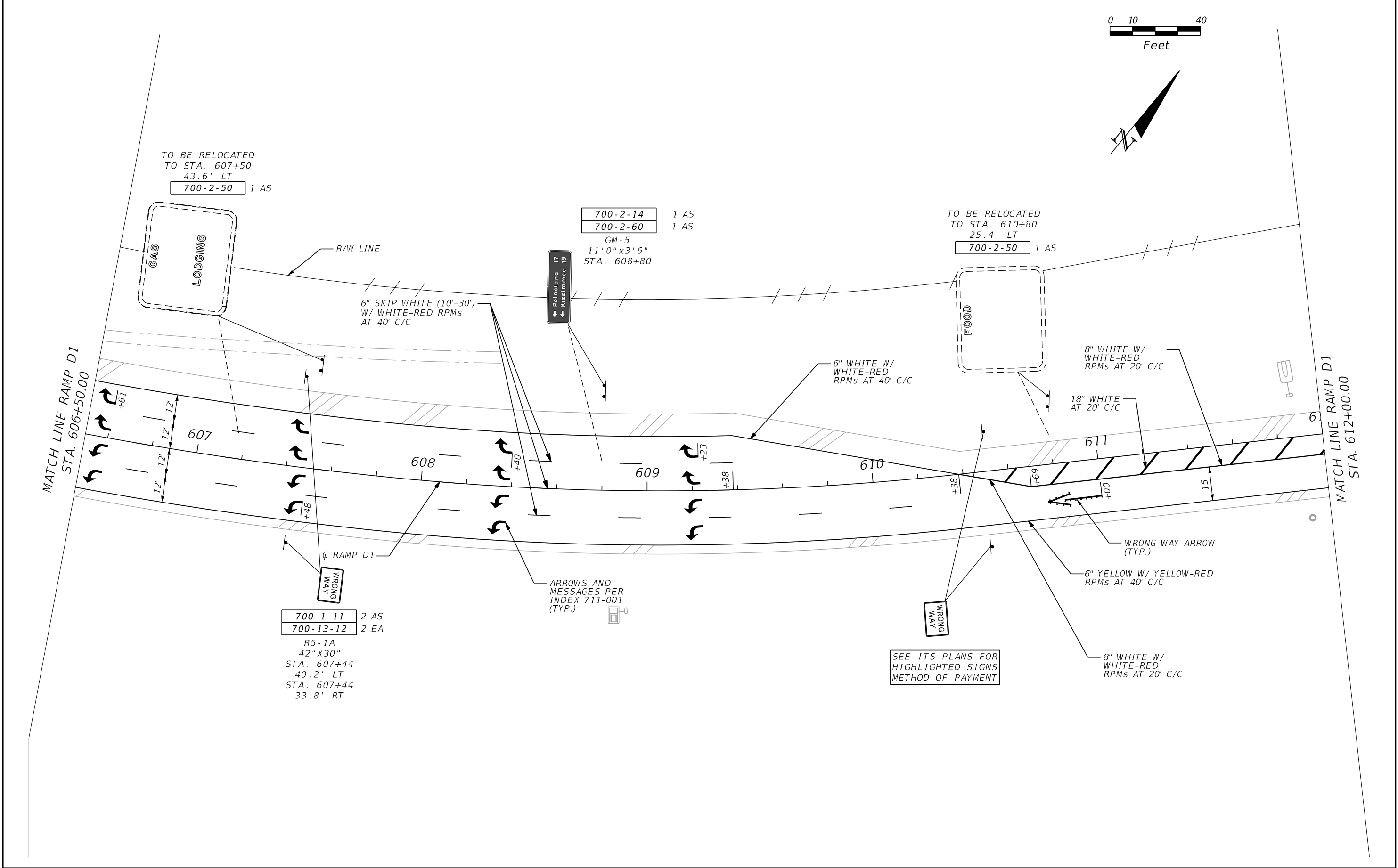
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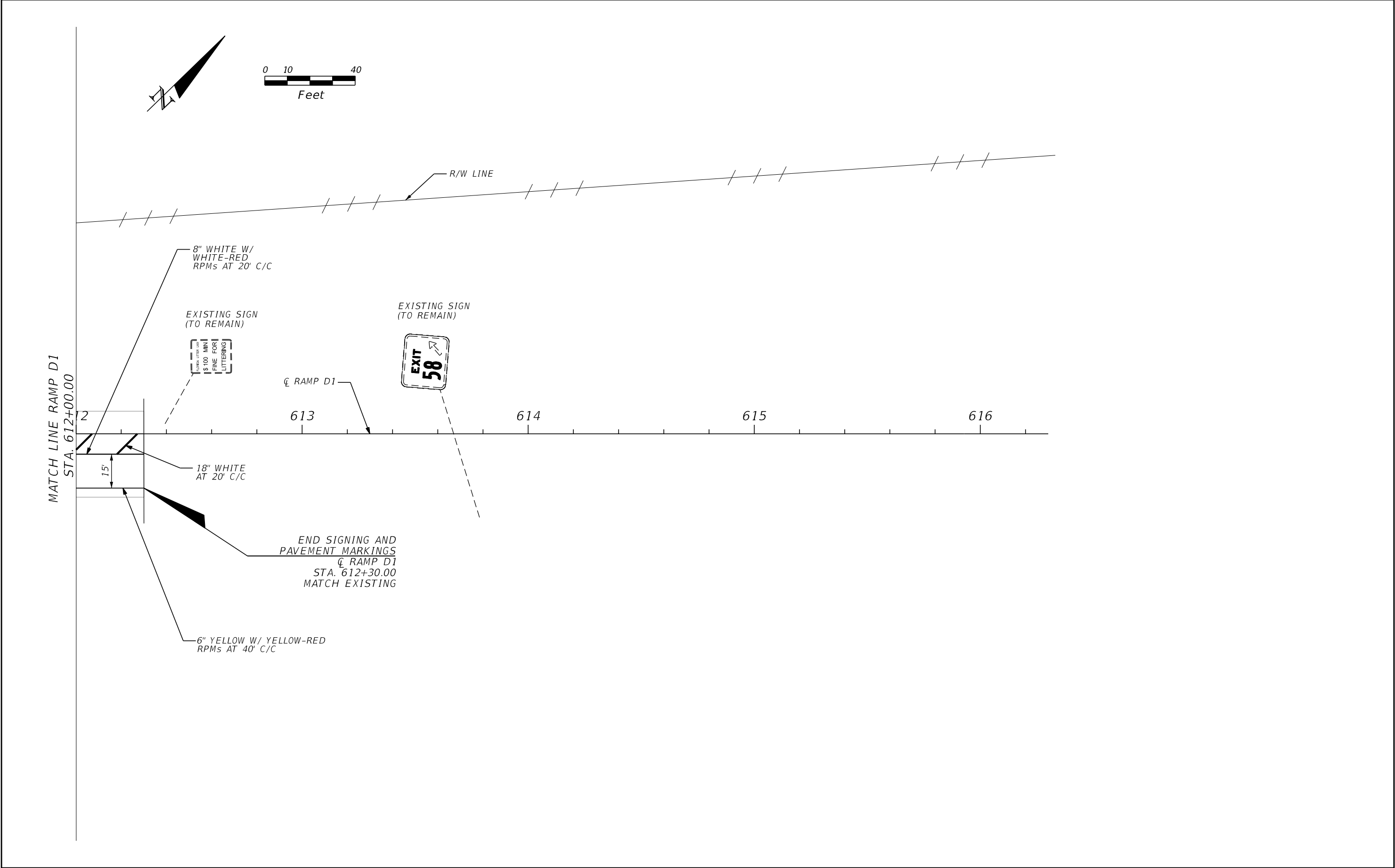
REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKING PLAN SHEET (15)		SHEET NO.	
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			S-21	
					CR 532	OSCEOLA	444187-1-52-01				



REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKING PLAN SHEET (16)		SHEET NO.  S-22
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					CR 532	OSCEOLA	444187-1-52-01			



REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKING PLAN SHEET (17)		SHEET NO.  S-23
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					CR 532	OSCEOLA	444187-1-52-01			



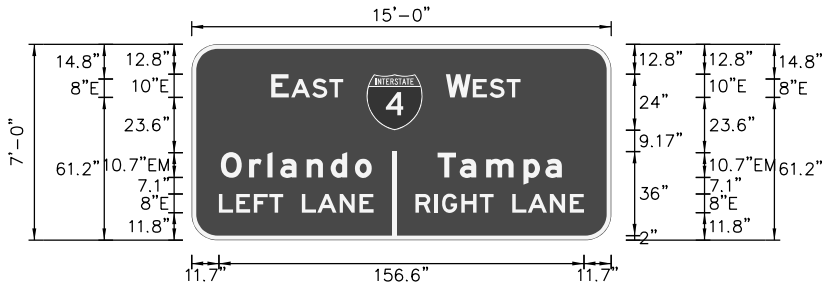
REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SIGNING AND PAVEMENT MARKING PLAN SHEET (18)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		S-24
					CR 532	OSCEOLA	444187-1-52-01		

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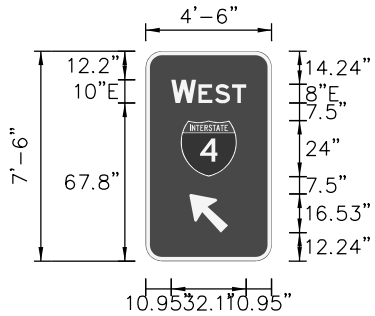
SIGN NAME	GM-1	QTY	I	SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH	15'-0"	WIDTH	2"		
HEIGHT	7'-0"	RADII	11"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
M1_1	0	75.1	47.2	24	24
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE		AVERAGE LENGTH
GM-1	2		WB	18	13.62



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE		WATT	VOLTAGE
-----------------------	-----------------	-------------------	--	------	---------

COPY		E		A	S	T		L											
SPACE	34.2	7.5	1	9	7.4	6	114.9	30.9											
COPY		W		E	S	T		L											
SPACE	109.1	10.6	1	7.1	7.4	6	38.9	32.1											
COPY		O	r	I	a	n	d	o		L									
SPACE	12.5	12.2	7.9	5.4	11.3	10.3	10.3	7.3	102.7	64.8									
COPY		T	a	m	p	a		L											
SPACE	105.5	9.5	11.3	16	9.4	7	21.2	53.2											
COPY		L	E	F	T		L	A	N	E		L							
SPACE	11.7	7.4	7.6	6.6	6	8	6.6	9.5	8.6	6	102	66.3							
COPY		R	I	G	H	T		L	A	N	E		L						
SPACE	96	8.1	3.3	8.3	7.8	6	8	6.6	9.5	8.6	6	11.7	72.2						

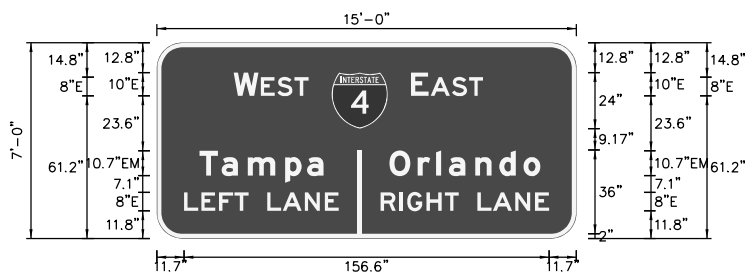
SIGN NAME	GM-3	QTY	I	SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH	4'-6"	WIDTH	1.75"		
HEIGHT	7'-6"	RADII	7"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
M1_1	0	15	36.3	24	24
AR_Type A	45	18.7	12.2	13.3	21
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE		WATT	VOLTAGE
-----------------------	-----------------	-------------------	--	------	---------

COPY		W		E	S	T		L											
SPACE	11	10.6	1	7.1	7.4	6	11	32.1											
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

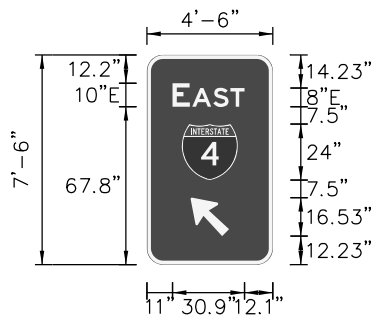
SIGN NAME	GM-2	QTY	I	SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH	15'-0"	WIDTH	2"		
HEIGHT	7'-0"	RADII	11"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
M1_1	0	75.1	47.2	24	24
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE		AVERAGE LENGTH
GM-2	2		WB	18	13.23



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE		WATT	VOLTAGE
-----------------------	-----------------	-------------------	--	------	---------

COPY		W		E	S	T		L											
SPACE	33	10.6	1	7.1	7.4	6	114.9	32.1											
COPY		E		A	S	T		L											
SPACE	109.1	7.5	1	9	7.4	6	40	30.9											
COPY		T	a	m	p	a		L											
SPACE	18.3	9.5	11.3	16	9.4	7	108.5	53.2											
COPY		O	r	I	a	n	d	o		L									
SPACE	99.8	12.2	7.9	5.4	11.3	10.3	10.3	7.3	15.5	64.8									
COPY		L	E	F	T		L	A	N	E		L							
SPACE	11.7	7.4	7.6	6.6	6	8	6.6	9.5	8.6	6	102	66.3							
COPY		R	I	G	H	T		L	A	N	E		L						
SPACE	96	8.1	3.3	8.3	7.8	6	8	6.6	9.5	8.6	6	11.7	72.2						

SIGN NAME	GM-4	QTY	I	SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH	4'-6"	WIDTH	1.75"		
HEIGHT	7'-6"	RADII	7"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
M1_1	0	15	36.3	24	24
AR_Type A	45	18.7	12.2	13.3	21
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES	FIXTURE SPACING	PHOTOMETRIC CURVE		WATT	VOLTAGE
-----------------------	-----------------	-------------------	--	------	---------

COPY		E		A	S	T		L											
SPACE	11	7.5	1	9	7.4	6	12.1	30.9											
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			
COPY																			
SPACE																			

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E.  
P.E. LICENSE NUMBER 47734  
HNTB CORPORATION  
610 CRESCENT EXECUTIVE COURT  
SUITE 400, LAKE MARY, FL 32746  
(407) 805-0355  
VENDER NO. F431623092-009

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		
ROAD NO.	COUNTY	FINANCIAL PROJECT ID
CR 532	OSCEOLA	444187-1-52-01

GUIDESIGN WORKSHEET

SHEET NO.

S-26

smantillanunez

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SIGN NAME	GM-5	QTY	1	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	11'-0"	WIDTH	1.75"		
HEIGHT	3'-6"	RADII	6"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	90	10.9	24	8	12
AR_Type D	90	10.9	10	8	12
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE		AVERAGE LENGTH
GM-5	2		W6	12	11.56

3'-6"

8'-10"

8"EM

24"

10'-0"

10"EM

10"EM

11'-0"

10.9"

110.2"

10.9"

19.95"

10"EM

24.05"

10"EM

10"EM

19.95"

NO. OF LIGHT FIXTURES

FIXTURE SPACING

PHOTOMETRIC CURVE

WATT

VOLTAGE

COPY		P	o	i	n	c	i	a	n	a		1	7		L														
SPACE	30.9	7.7	7.9	4.8	7.8	7.8	4.1	8.5	7.8	5.3	18	4	6.5	11.1	90														
COPY		K	i	s	s	i	m	m	e	e		1	9		L														
SPACE	31.1	8.3	3.9	6.9	7.8	4.8	12	11.3	7	5.3	11.9	4.3	6.5	10.9	90														
COPY																													
SPACE																													
COPY																													
SPACE																													
COPY																													
SPACE																													
COPY																													
SPACE																													

SIGN NAME	GM-6	QTY	1	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	11'-0"	WIDTH	1.75"		
HEIGHT	3'-6"	RADII	6"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	270	109	24	8	12
AR_Type D	270	109	10	8	12
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE		AVERAGE LENGTH
GM-6	2		W6	12	12.93

3'-6"

8'-10"

8"EM

10"

10"

8"EM

10"

11'-0"

11"

110"

11"

10"

8"EM

10"

8"EM

10"

NO. OF LIGHT FIXTURES

FIXTURE SPACING

PHOTOMETRIC CURVE

WATT

VOLTAGE

COPY		P	o	i	n	c	i	a	n	a		1	7		L														
SPACE	11	7.7	7.9	4.8	7.8	7.8	4.1	8.5	7.8	5.3	18	4	6.5	31	90														
COPY		K	i	s	s	i	m	m	e	e		1	9		L														
SPACE	11	8.3	3.9	6.9	7.8	4.8	12	11.3	7	5.3	11.9	4.3	6.5	31	90														
COPY																													
SPACE																													
COPY																													
SPACE																													
COPY																													
SPACE																													
COPY																													
SPACE																													

SIGN NAME	GM-7	QTY	1	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	8'-0"	WIDTH	2"		
HEIGHT	7'-6"	RADII	12"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
M1_1	0	15	55.5	24	24
AR_Type A	45	39.9	12.2	13.3	21
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE		AVERAGE LENGTH
GM-7	2		W6	12	14.05

7'-6"

10.5"

24"

55.5"

10.45"

10"E

22.1"

10.67"EM

16.529"

12.151"

8'-0"

14.95"

66.1"

14.95"

12.45"

8"E

69.55"

NO. OF LIGHT FIXTURES

FIXTURE SPACING

PHOTOMETRIC CURVE

WATT

VOLTAGE

COPY		W		E	S	T		L																					
SPACE	49	10.6	1	7.1	7.4	6	15	32.1																					
COPY		T	a	m	p	a		L																					
SPACE	21.4	9.5	11.3	16	9.4	7	21.4	53.2																					
COPY																													
SPACE																													
COPY																													
SPACE																													
COPY																													
SPACE																													
COPY																													
SPACE																													

SIGN NAME	GM-8	QTY	1	SIGN NUMBER	STATION(S)
PANEL	BORDER				
WIDTH	8'-0"	WIDTH	2"		
HEIGHT	7'-6"	RADII	12"		
LEGEND	White	COLOR	White		
COLOR	Green				
SYMBOL(S)	ANGLE	X	Y	WID	HT
M1_1	0	15.5	55.5	24	24
AR_Type A	45	40.4	12.2	13.3	21
SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Land	COLUMN SIZE		AVERAGE LENGTH
GM-8	2		W6	12	14.39

7'-6"

10.5"

24"

55.5"

10.45"

10"E

22.1"

10.7"EM

16.53"

12.15"

8'-0"

15.55"

64.9"

15.55"

12.45"

8"E

69.55"

NO. OF LIGHT FIXTURES

FIXTURE SPACING

PHOTOMETRIC CURVE

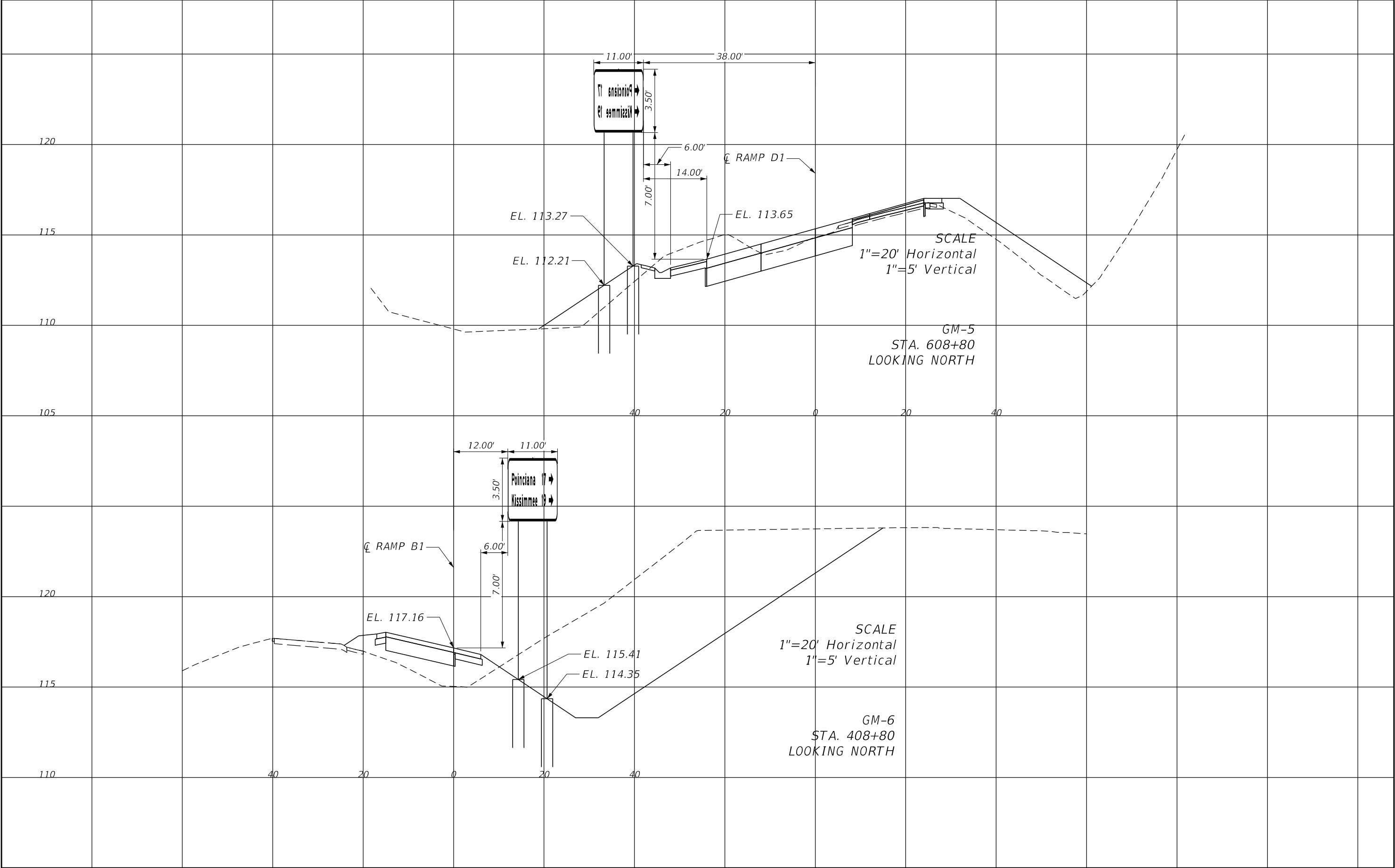
WATT

VOLTAGE

COPY		E		A	S	T		L																					
SPACE	49.5	7.5	1	9	7.4	6	15.6	30.9																					
COPY		O	r	I	a	n	d	o		L																			
SPACE	15.5	12.2	7.9	5.5	11.3	10.4	10.4	7.3	15.5	64.9																			
COPY																													
SPACE																													
COPY																													
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SPACE																													

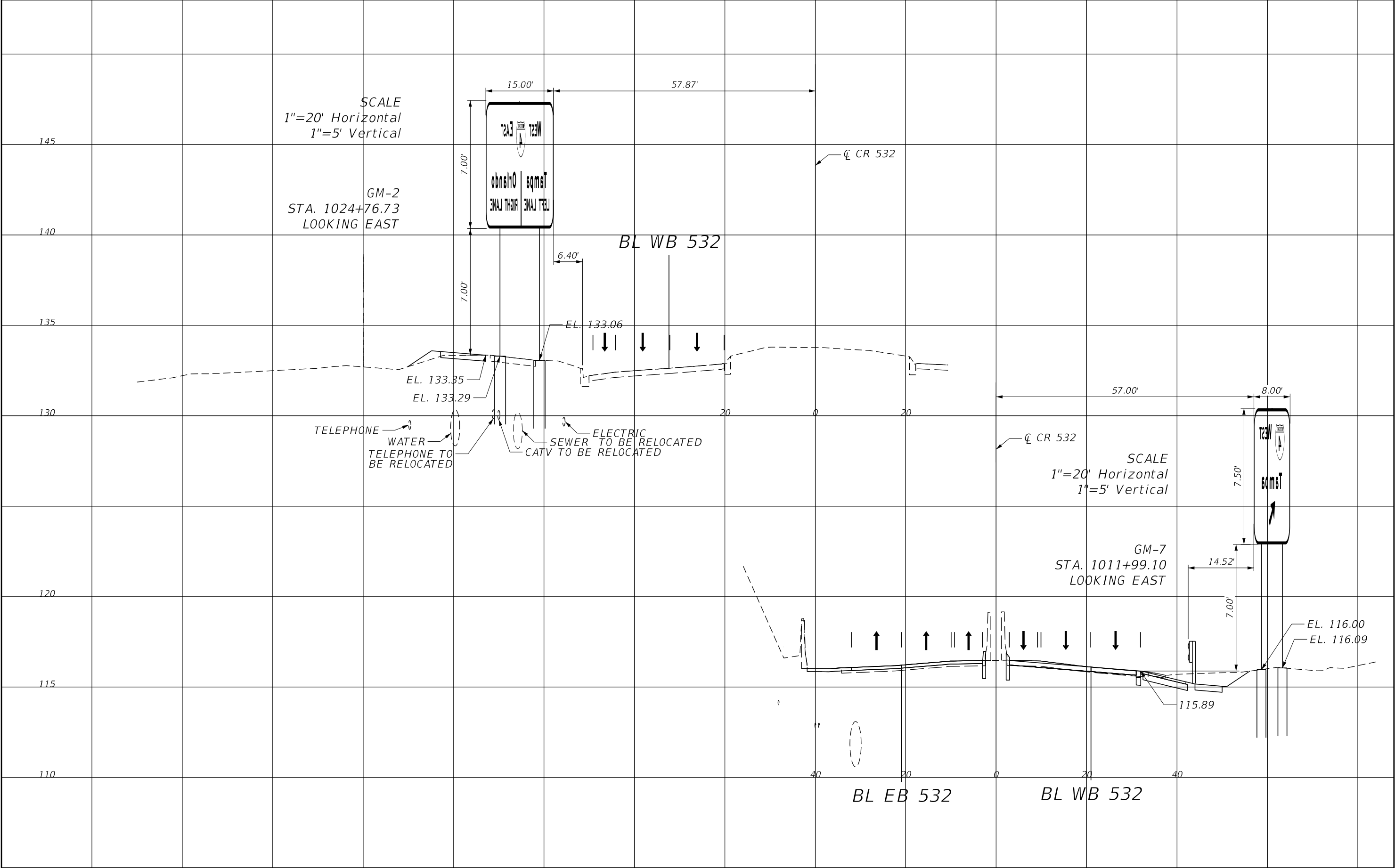
REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009		STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION		GUIDESIGN WORKSHEET		SHEET NO.  S-27	
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD NO.	COUNTY				FINANCIAL PROJECT ID
						CR 532	OSCEOLA				444187-1-52-01



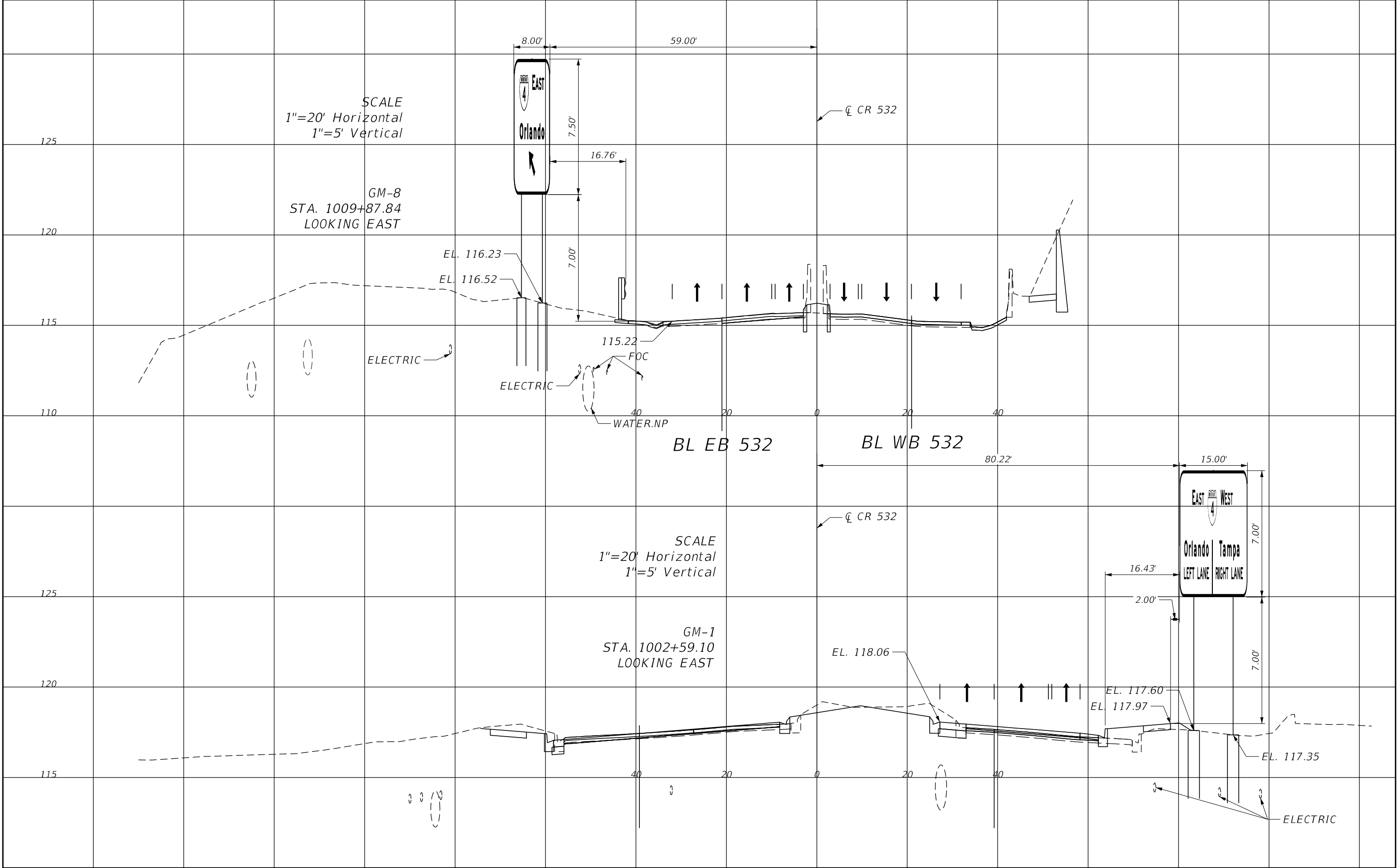


REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					CR 532	OSCEOLA	444187-1-52-01		S-29

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					CR 532	OSCEOLA	444187-1-52-01		S-30

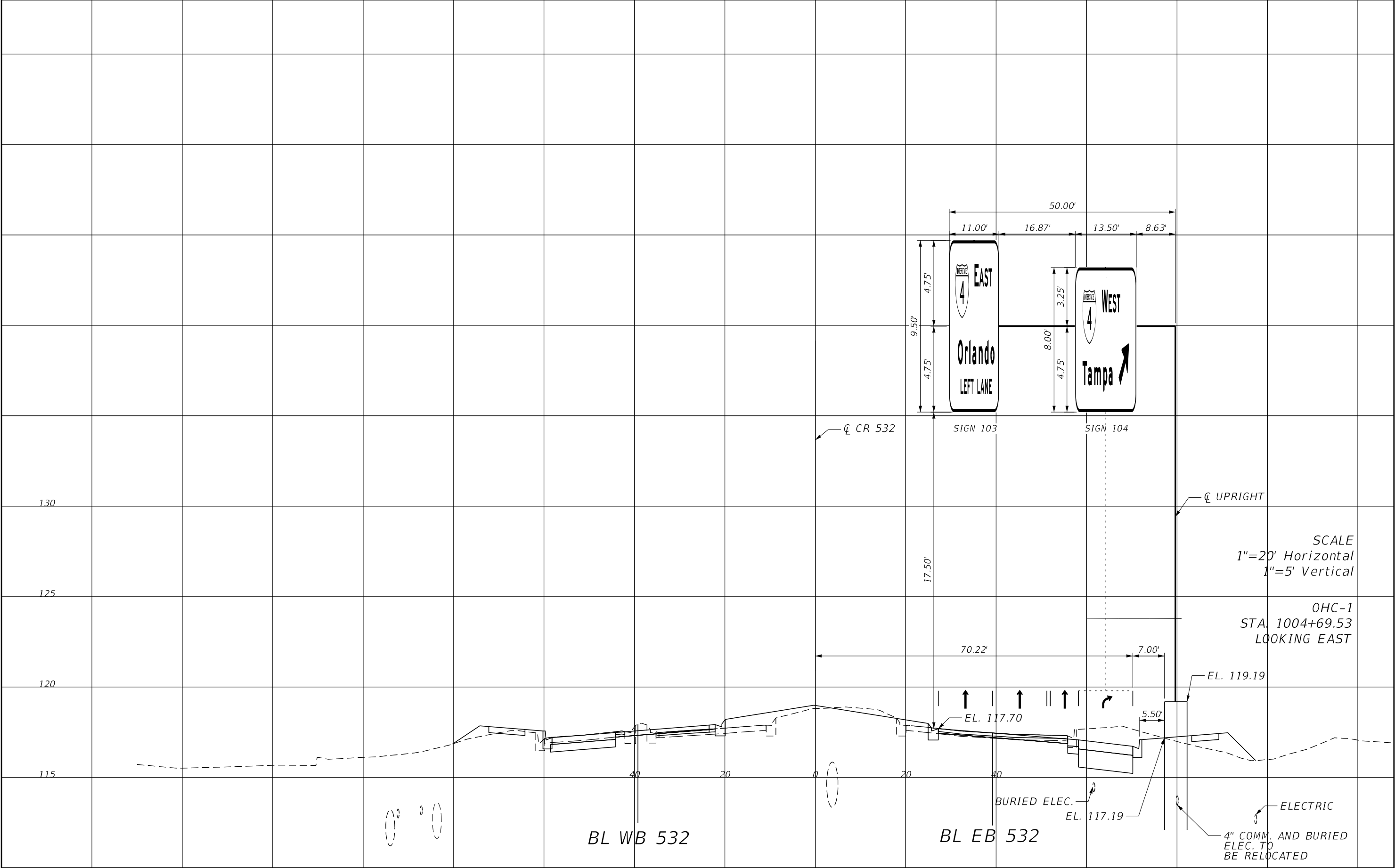


REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO.  S-31
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					CR 532	OSCEOLA	444187-1-52-01		

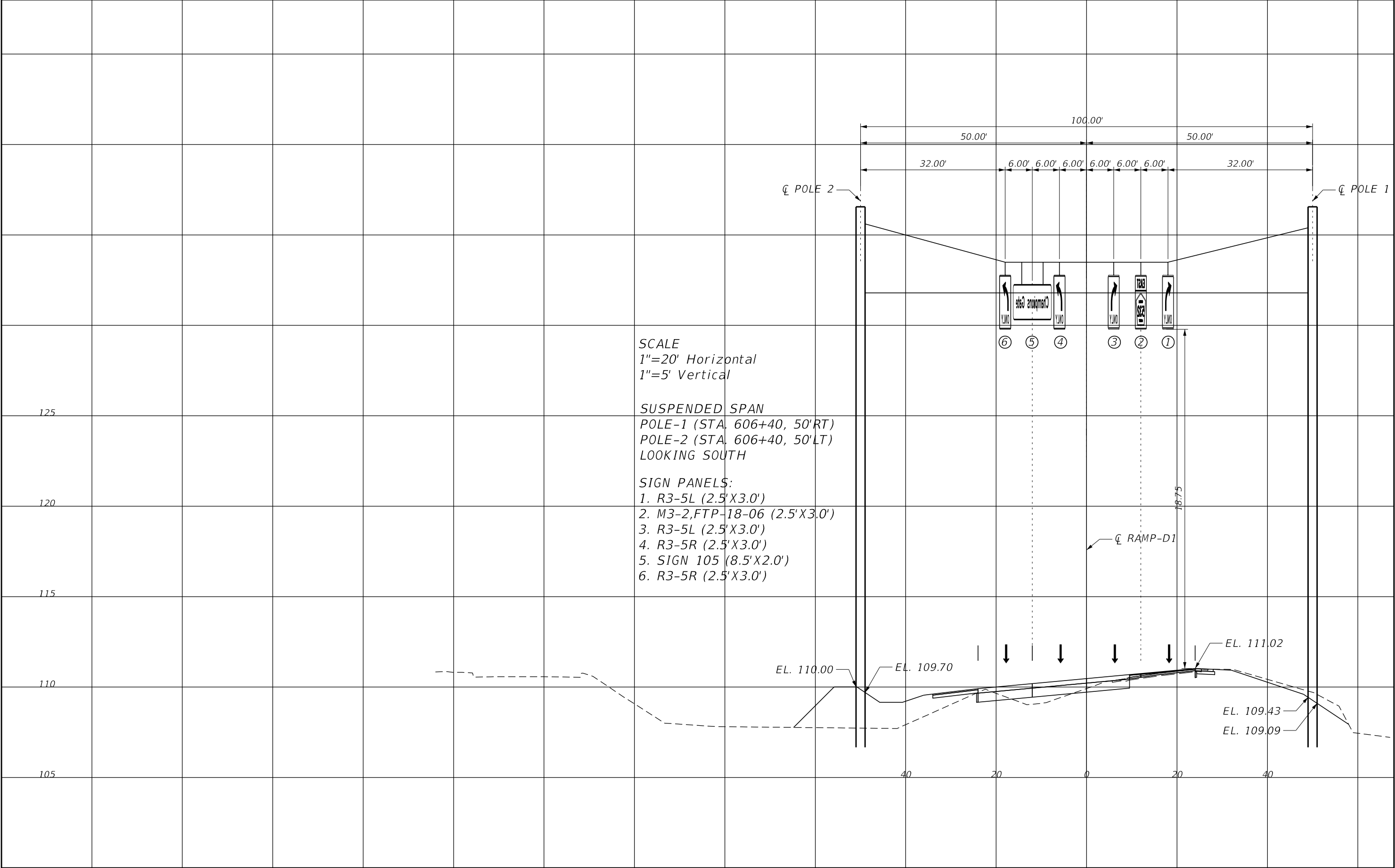
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.







REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					CR 532	OSCEOLA	444187-1-52-01		S-33



REVISIONS				ENGINEER OF RECORD: MICHAEL L. CORNEJO P.E. P.E. LICENSE NUMBER 47734 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT SUITE 400, LAKE MARY, FL 32746 (407) 805-0355 VENDER NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					CR 532	OSCEOLA	444187-1-52-01		S-34

CANTILEVER SIGN STRUCTURES DATA TABLE										
SIGN NO.	STATION	DIMENSIONS				PANELS	MEMBER SIZES			BACKRAKE
		A	B		C	N	D (CHORD)	E (WEB)	F (UPRIGHT)	G
		ft	ft	in	in	#	O. D. x Wall Thk. (in)	Angle (in)	O. D. x Wall Thk. (in)	in
OHC - 1	1004+69.53	20.51	5	6	66	9	6.625 x 0.432	3 x 3 x 5/16	24 x 0.750	5.56
OHC - 2	1017+68.85	20.52	5	6	66	9	6.625 x 0.432	3 x 3 x 5/16	24 x 0.750	5.63

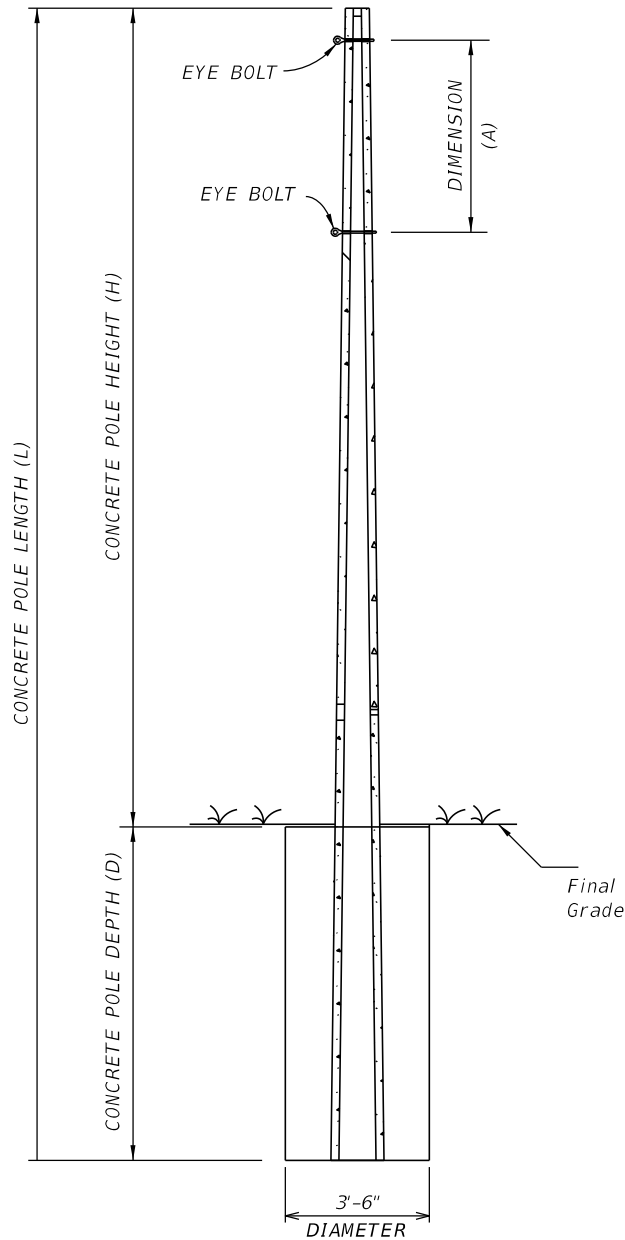
NOTES  
1. Work these Data Tables with Index 700-040  
2. Design Wind Speed = 150 mph.  
3. Upright wall thickness given is a minimum dimension.

CANTILEVER SIGN STRUCTURES DATA TABLE (CONT.)																														
SIGN NO.	GUSSET PLATES														TRUSS CONNECTION								SPLICE							
	GA	GB	GC		GD		GE		GF		GG		GH		GJ		GK	TA	TB	TC	TD	TE	TF	TG	TH	TJ	SA	SB	SC	SD
	in	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	ft	in	in	in	#	#	in	in	in	in	in	in	Angle (in)	#	in	#
OHC - 1	3/8	5/8		11 - 3/4		6		10		5 - 1/4		5 - 1/4		5 - 1/2		8	3/16	7/8	8	8	3/4	3/4	7/16	1/4	3/16	3/16	6 x 6 x 1/2	4	1	5
OHC - 2	3/8	5/8		11 - 3/4		6		10		5 - 1/4		5 - 1/4		5 - 1/2		8	3/16	7/8	8	8	3/4	3/4	7/16	1/4	3/16	3/16	6 x 6 x 1/2	4	1	5

CANTILEVER SIGN STRUCTURES DATA TABLE (CONT.)																					
SIGN NO.	BASE CONNECTION										ANCHOR		FOOTING - DRILLED SHAFT								
	BA	BB	BC	BD	BE		BF	BG	BH	BJ	BK		FA		FB		FC	FD	FE	FF	FG
	in	#	in	in	ft	in	in	in	in	in	ft	in	ft	in	ft	in	# / Size	#	in	#	in
OHC - 1	2 - 1/2	8	2	3/8	2	10 - 3/4	5/16	5/16	5/16	3/16	4	2	30		5		19 / 11	28	6	1	12
OHC - 2	2 - 1/2	8	2	3/8	2	10 - 3/4	5/16	5/16	5/16	3/16	4	2	27		5		19 / 11	28	6	1	12

FOUNDATION NOTES  
1. Design based on Borings taken 5/27/2020 sealed by AWK Consulting Engineers  
2. See Geotech Report and Design Calculations for assumptions and values used in design.  
3. Drilled Shafts shall utilize # 6 Tie Bars in lieu of #5 Tie Bars per Index 700-041.  
4. Layers of dense sand material may be encountered during drilled shaft construction. Such materials may make shaft excavations and/or casing installation difficult. The contractor shall use specialized equipment and/or procedures as necessary to facilitate shaft excavation and/or casing installation. The contractor should review the individual soil profile for the particular shaft location prior to initiating construction.

REVISIONS				ANDREW M. KOZMA P.E. P.E. LICENSE NUMBER 81275 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT, SUITE 400 LAKE MARY, FL 32746 VENDOR NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			CANTILEVER SIGN STRUCTURES DATA TABLE	SHEET NO.
DATE	DESCRIPTION		DATE		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
					CR 532	OSCEOLA	444187-1-52-01		S-35



CONCRETE STRAIN POLE DIMENSIONS  
TYPES P-III THROUGH P-VIII  
(SEE INDEX 641-010 FOR POLE DETAILS)

STRAIN POLE SCHEDULE										
ID NO.	SHEET NO.	POLE LOCATION		FINAL GRADE ELEVATION	POLE TYPE	POLE LENGTH (L)	POLE HEIGHT (H)	CONCRETE POLE DEPTH (D)	DIMENSION (A)	PAY ITEM NUMBER
		STATION	OFFSET							
1	S-34	606+40	50.0' RT	109.09'	P-VIII	45' -0"	30' -0"	15' -0"	6' -0"	641-2-18
2	S-34	606+40	50.0' LT	109.70'	P-VIII	54' -0"	30' -0"	24' -0"	6' -0"	641-2-18

CABLE SIZES		
LOCATION	CATENARY CABLE	MESSENGER CABLE
SR 400 / CR 532	1/2"	1/2"

LOCATION	SPAN LENGTHS			
	1			
SR 400 / CR 532	100' -0"			

SCHEDULE NOTES:

- FOR CONCRETE STRAIN POLES, WORK WITH INDEX 641-010.
- CABLE DIMENSIONS GIVEN ARE MEASURED FROM THE CENTER OF THE POLE. THESE DIMENSIONS ARE PLAN VIEW AND DO NOT ACCOUNT FOR ADDITIONAL LENGTHS DUE TO VERTICAL DROP ALONG EACH CABLE.
- CABLES SHALL BE UTILITY GRADE, 7 WIRE STRANDS MANUFACTURED IN ACCORDANCE WITH ASTM A475. ALL WIRES SHALL HAVE A CLASS A ZINC COATING.
- REFER TO SECTION 634 OF THE FDOT SPECIFICATIONS FOR SPAN WIRE ASSEMBLY INFORMATION.
- FIELD VERIFY ALL ELEVATIONS LISTED HEREIN.
- INFORMATION BELOW IS FOR DESIGN PURPOSES ONLY. FIELD ADJUSTMENTS MAY BE REQUIRED. SEE APPROPRIATE PLAN SHEET FOR PROPOSED SIGNAL HEAD ALIGNMENTS CONFIGURATION/LOCATION.
- THE DESIGN OF THE STRAIN POLES, CABLES, AND FOUNDATIONS ARE BASED ON A DESIGN WIND SPEED OF 140 MPH. THIS IS IN ACCORDANCE WITH THE JANUARY 2020 FDOT STRUCTURES MANUAL VOLUME 3.

GEOTECH NOTES:

- DESIGN OF FOUNDATION DEPTHS ARE BASED ON SOIL PROPERTIES PROVIDED BY AWK CONSULTING ENGINEERS DATED JULY 2ND, 2020. POLE 2 WAS INTENTIONALLY INCREASED BY 5FT TO BYPASS THE MUCK LAYER.
- CONTRACTOR IS REQUIRED TO CONTACT THE ENGINEER OF RECORD IF SOIL PROPERTIES ARE DIFFERENT THAN PROPERTIES STATED BELOW.

POLE 1:

UNIT WEIGHT = 55 PCF  
FRICTION ANGLE = 31°

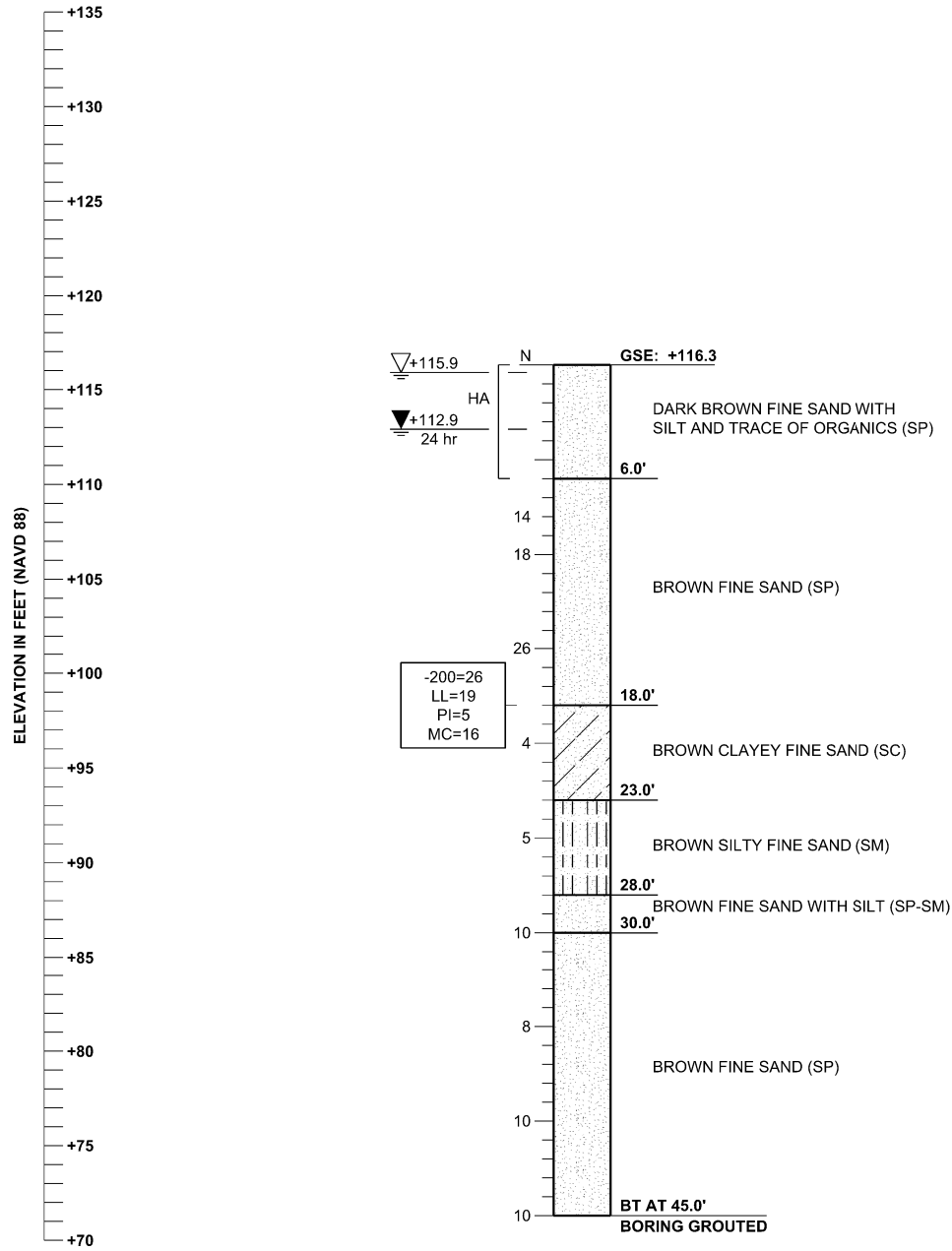
POLE 2:

UNIT WEIGHT = 40 PCF  
FRICTION ANGLE = 25°

REVISIONS				ANDREW M. KOZMA P.E. P.E. LICENSE NUMBER 81275 HNTB CORPORATION 610 CRESCENT EXECUTIVE COURT, SUITE 400 LAKE MARY, FL 32746 VENDOR NO. F431623092-009	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			STRAIN POLE SCHEDULE AND DETAILS		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID			
					CR 532	OSCEOLA	444187-1-52-01			S-36

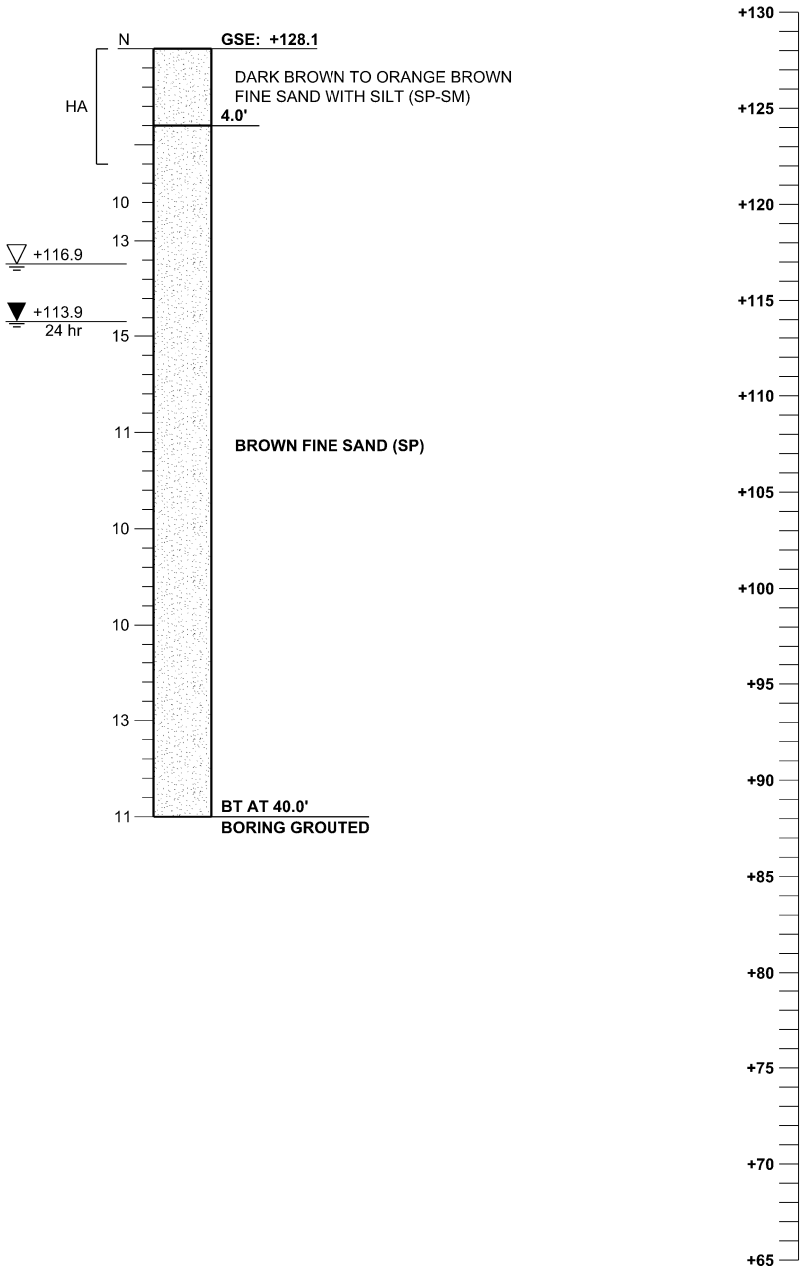
OC-1

STA 1004+49.74, 148.32' RT  
LAT: N 28.26095  
LONG: W 81.61513  
GSE: +116.3  
RIG TYPE: CME 45 TRACK  
HAMMER TYPE: AUTOMATIC  
START DATE : 3-05-20  
END DATE : 3-05-20  
DRILLED BY: P. PLANTIER



OC-2

STA 1017+82.63, 52.53' LT  
LAT: N 28.26065  
LONG: W 81.61097  
GSE: +128.1  
RIG TYPE: CME 45 TRACK  
HAMMER TYPE: AUTOMATIC  
START DATE : 3-05-20  
END DATE : 3-05-20  
DRILLED BY: P. PLANTIER



LEGEND

	SAND		SAND & SILT		CLAY
	SAND & CLAY		LIMESTONE		SANDY CLAY
	SILT		SILTY CLAY		SHELL

- SPT BORING LOCATION
- AGS +00.0' APPROXIMATE ELEVATION TO ESTIMATED SEASONAL HIGH GROUND WATER LEVEL
- 00 hr +00.0' APPROXIMATE ELEVATION TO ENCOUNTERED GROUND WATER LEVEL AT TIME OF DRILLING
- AGS ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL ABOVE GROUND SURFACE
- GSE: GROUND SURFACE ELEVATION
- BT: BORING TERMINATED
- N: STANDARD PENETRATION RESISTANCE BLOWS PER FOOT
- (SP): UNIFIED SOIL CLASSIFICATION SYMBOL
- 200: PERCENT PASSING NUMBER 200 U.S. STANDARD SIEVE
- MC: PERCENT NATURAL MOISTURE CONTENT
- OC: PERCENT ORGANIC CONTENT
- LL: LIQUID LIMIT
- PI: PLASTICITY INDEX
- BOC BOTTOM OF CASING, FEET
- XX
- WOH: WEIGHT OF HAMMER
- HA: HAND AUGERED

SPT - STANDARD PENETRATION TEST  
STANDARD PENETRATION RESISTANCE IS THE NUMBER OF BLOWS REQUIRED TO DRIVE A 2-INCH O.D. SPLIT BARREL SAMPLER 12 INCHES USING A 140 POUND HAMMER FALLING FREELY THROUGH 30 INCHES.

- SPT HAMMER TYPE: AUTOMATIC
- NOTES:
- THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS, DEPTHS AND DATES INDICATED. SOIL CONDITIONS AND GROUNDWATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM THE CONDITIONS OCCURRING AT THESE BORING LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE OF THE CONDITIONS AT THESE BORING LOCATIONS.
  - THE SPT BORING LOCATIONS WERE SURVEYED FOR HORIZONTAL AND VERTICAL CONTROL BY ECHO JES, INC.
  - THE FDEP MAP "UPPER FLORIDAN AQUIFER POTENTIOMETRIC SURFACE, SEPTEMBER 2016" INDICATESPOTENTIO-METRIC LEVEL OF APPROXIMATELY +105 FT NGVD 29 IN THE VICINITY OF THE PROJECT. CONTRACTOR SHALL BE PREPARED TO HANDLE ARTESIAN LEVELS UP TO +105 FT NGVD 29.

GRANULAR MATERIALS:

RELATIVE DENSITY	SPT N-VALUE (BLOWS/12 INCHES)
VERY LOOSE	<4
LOOSE	4-10
MEDIUM DENSE	10-30
DENSE	30-50
VERY DENSE	>50

SILTS, CLAYS, MUCK AND PEAT:

CONSISTENCY	SPT N-VALUE (BLOWS/12 INCHES)
VERY SOFT	<2
SOFT	2-4
FIRM	4-8
STIFF	8-15
VERY STIFF	15-30
HARD	>30

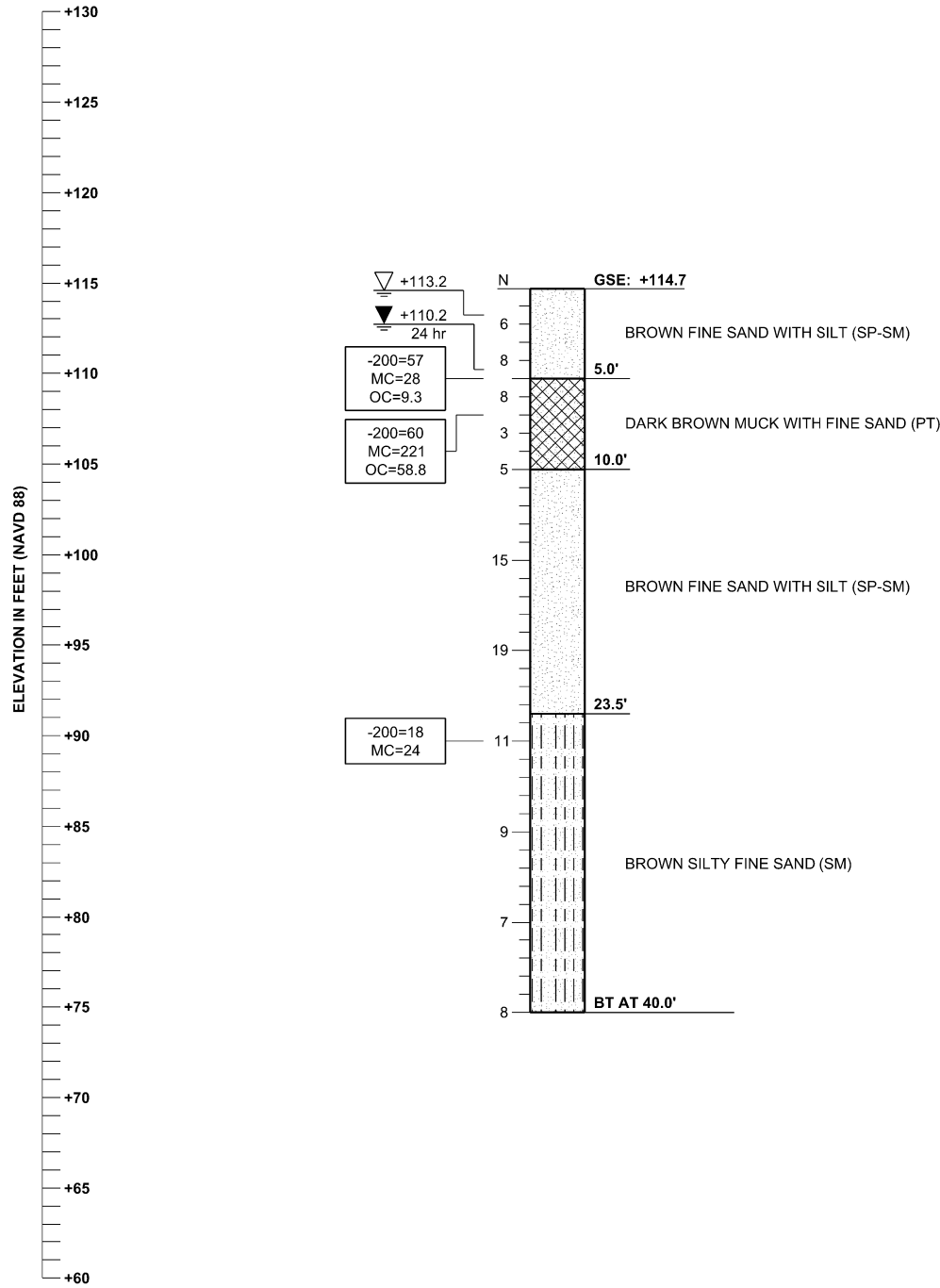
REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	REPORT OF SPT BORING RESULTS		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CR 532	OSCEOLA	444187-1-52-01	S-37

ERROL S. ABDULLA, P.E.  
P.E. License No. 74803  
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6457 Hazeltine National Dr.  
Suite 150  
Orlando, FL 32822  
PH (407) 203-3804 FAX 888-282-9897  
Vendor No. P251693204



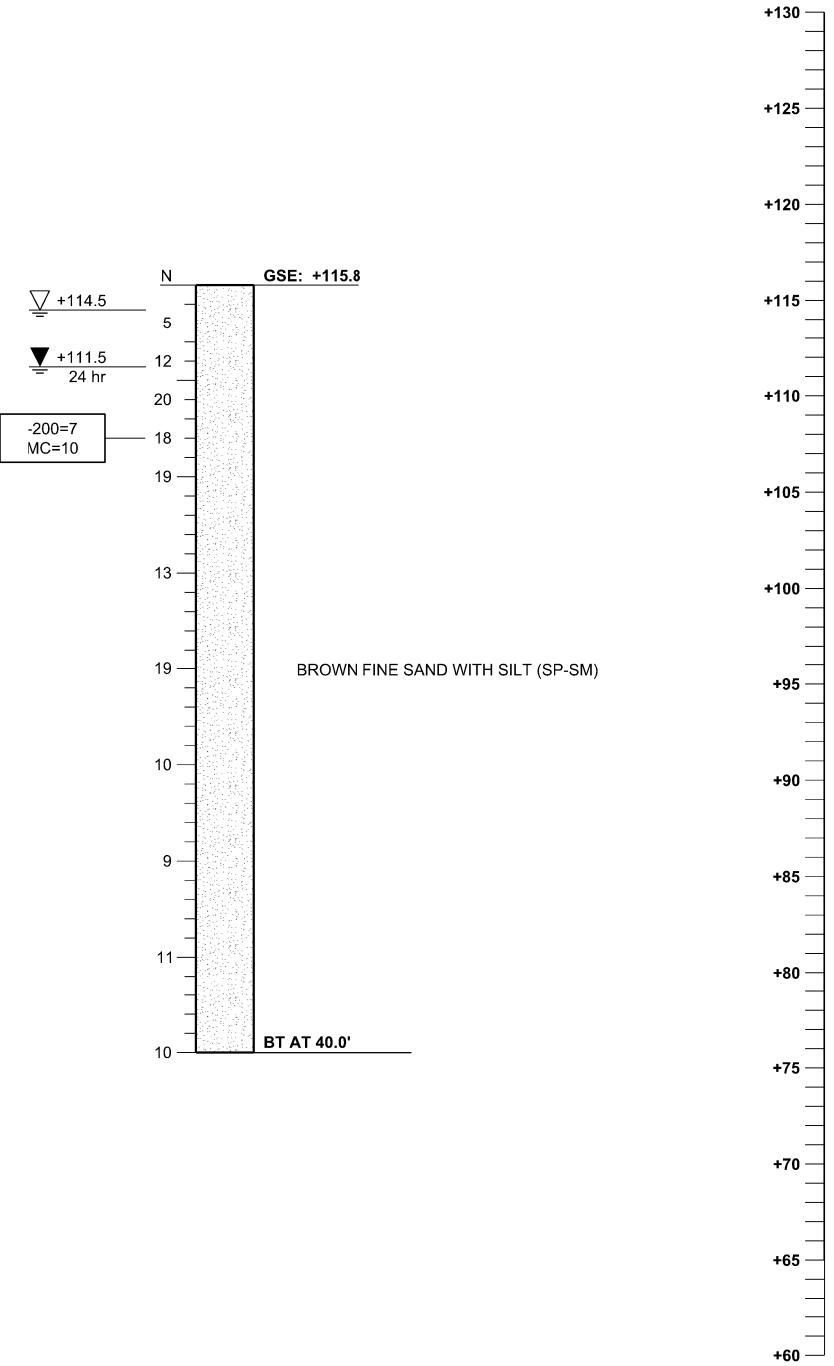
SP-1 (POLE 2)

STA 606+39.00, 19.00 LT  
LAT: N 28.26214  
LONG: W 81.61303  
GSE: +114.7  
RIG TYPE: CME 45 TRACK  
HAMMER TYPE: AUTOMATIC  
START DATE : 6-17-20  
END DATE : 6-17-20  
DRILLED BY: P. PLANTIER

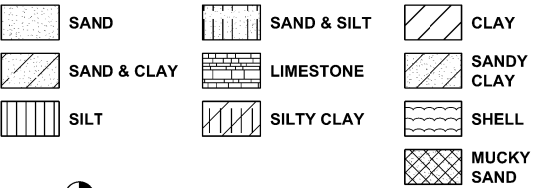


SP-2 (POLE 1)

STA 606+33.00, 41.00' RT  
LAT: N 28.26198  
LONG: W 81.61296  
GSE: +115.8  
RIG TYPE: CME 45 TRACK  
HAMMER TYPE: AUTOMATIC  
START DATE : 6-17-20  
END DATE : 6-17-20  
DRILLED BY: P. PLANTIER



LEGEND



SPT BORING LOCATION  
APPROXIMATE ELEVATION TO ESTIMATED SEASONAL HIGH GROUND WATER LEVEL  
APPROXIMATE ELEVATION TO ENCOUNTERED GROUND WATER LEVEL AT TIME OF DRILLING  
ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL ABOVE GROUND SURFACE

GSE: GROUND SURFACE ELEVATION  
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PI: PLASTICITY INDEX  
BOC: BOTTOM OF CASING, FEET  
XX: WEIGHT OF HAMMER  
WOH: HAND AUGERED

SPT - STANDARD PENETRATION TEST  
STANDARD PENETRATION RESISTANCE IS THE NUMBER OF BLOWS REQUIRED TO DRIVE A 2-INCH O.D. SPLIT BARREL SAMPLER 12 INCHES USING A 140 POUND HAMMER FALLING FREELY THROUGH 30 INCHES.

SPT HAMMER TYPE: AUTOMATIC

- NOTES:
- THE BORING LOGS AND RELATED INFORMATION DEPICT SUBSURFACE CONDITIONS ONLY AT THE SPECIFIC LOCATIONS, DEPTHS AND DATES INDICATED. SOIL CONDITIONS AND GROUNDWATER LEVELS AT OTHER LOCATIONS MAY DIFFER FROM THE CONDITIONS OCCURRING AT THESE BORING LOCATIONS. ALSO, THE PASSAGE OF TIME MAY RESULT IN A CHANGE OF THE CONDITIONS AT THESE BORING LOCATIONS.
  - THE SPT BORING LOCATIONS WERE SURVEYED FOR HORIZONTAL AND VERTICAL CONTROL BY ECHO JES, INC.
  - THE FDEP MAP "UPPER FLORIDAN AQUIFER POTENTIOMETRIC SURFACE, SEPTEMBER 2016" INDICATES POTENTIAL METRIC LEVEL OF APPROXIMATELY +105 FT NGVD 29 IN THE VICINITY OF THE PROJECT. CONTRACTOR SHALL BE PREPARED TO HANDLE ARTESIAN LEVELS UP TO +105 FT NGVD 29.

GRANULAR MATERIALS:

RELATIVE DENSITY	SPT N-VALUE (BLOWS/12 INCHES)
VERY LOOSE	<4
LOOSE	4-10
MEDIUM DENSE	10-30
DENSE	30-50
VERY DENSE	>50

SILTS, CLAYS, MUCK AND PEAT:

CONSISTENCY	SPT N-VALUE (BLOWS/12 INCHES)
VERY SOFT	<2
SOFT	2-4
FIRM	4-8
STIFF	8-15
VERY STIFF	15-30
HARD	>30

REVISIONS				STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION	REPORT OF SPT BORING RESULTS		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
				ROAD NO.	COUNTY	FINANCIAL PROJECT ID	
				CR 532	OSCEOLA	444187-1-52-01	S-38

ERROL S. ABDULLA, P.E.  
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