

COMPONENTS OF CONTRACT PLANS SET

Roadway Plans
Landscape Plans

A DETAILED INDEX APPEARS ON THE
KEY SHEET OF EACH COMPONENT

INDEX OF ROADWAY PLANS

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GOVERNING STANDARD PLANS:

Florida Department of Transportation, Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs). Edition in Place at Time of Bid Opening.

Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, Standard Specifications for Road and Bridge Construction, Edition in Place at time of Bid Opening, at the following website:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

BOARD OF COUNTY COMMISSIONERS

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JAY ZEMBOWER, CHAIRMAN	DISTRICT 2
LEE CONSTANTINE	DISTRICT 3
AMY LOCKHART	DISTRICT 4
ANDRIA HERR	DISTRICT 5

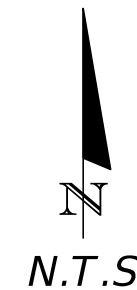
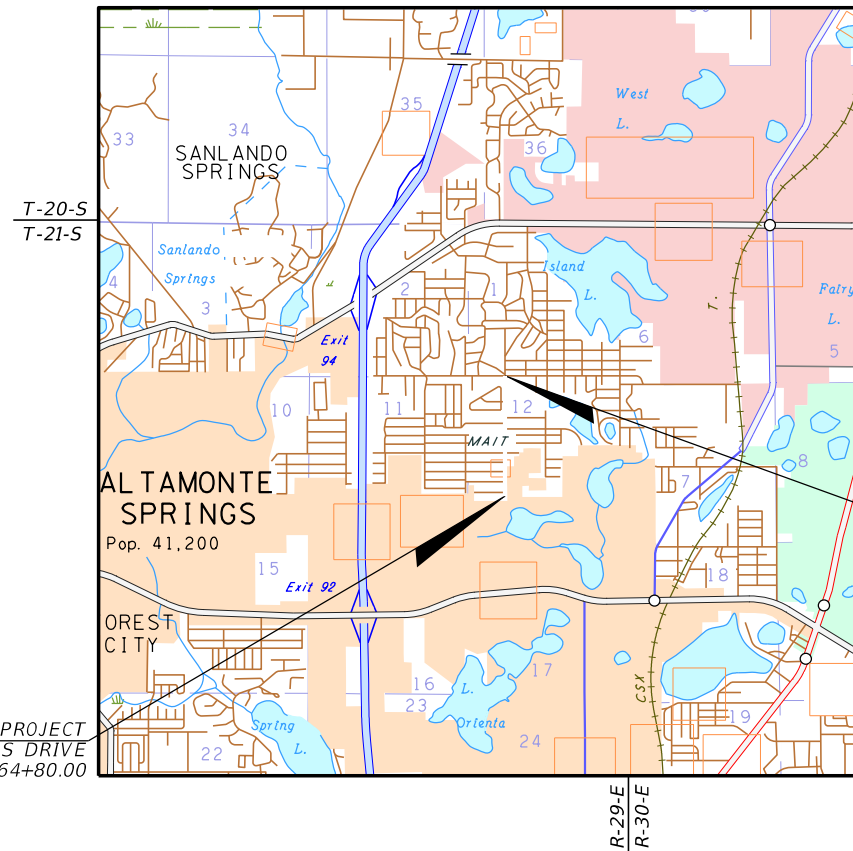
DARREN GRAY, COUNTY MANAGER

SEMINOLE COUNTY
ENGINEERING DIVISION

CONTRACT PLANS



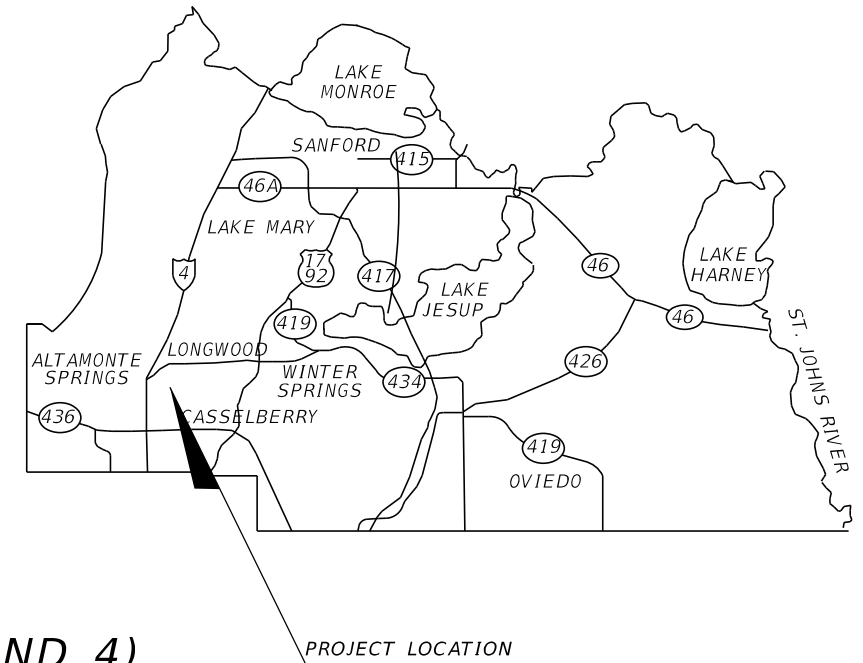
NORTH STREET PHASE 2 (60% SUBMITTAL)
SEMINOLE COUNTY CIP No. 02307081 (DISTRICT 3 AND 4)



END PROJECT
B - PALM SPRINGS DRIVE
STA. 30004+60.00

LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	3980	0.75
BRIDGES	N/A	N/A
NET LENGTH OF PROJECT	3980	0.75
EXCEPTIONS	N/A	N/A
GROSS LENGTH OF PROJECT	3980	0.75

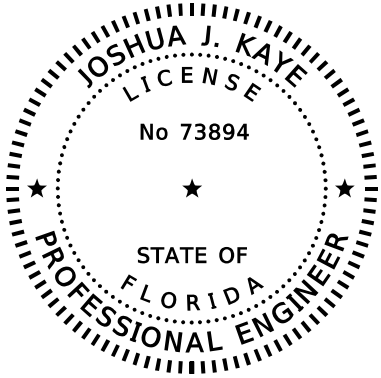
PUBLIC WORKS DIRECTOR: JOHN SLOT, P.E.



ROADWAY PLANS
ENGINEER OF RECORD:
JOSHUA KAYE, PE
PE LICENSE NO. 73894
HDR ENGINEERING, INC.
315 E. ROBINSON STREET, SUITE 400
ORLANDO, FL 32801
(407) 420 - 4200

COUNTY PROJECT MANAGER:
JOSEPH LOFASO, PE
PUBLIC WORKS DEPARTMENT
100 EAST 1st STREET
SANFORD, FL 32771

FISCAL YEAR	SHEET NO.
25-26	1



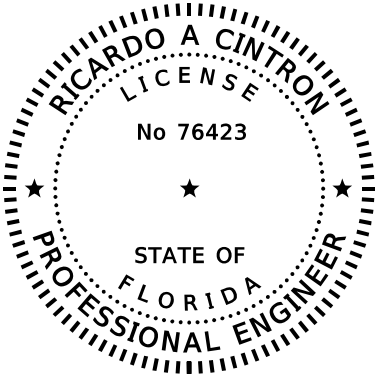
THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

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HDR ENGINEERING, INC.
315 E. ROBINSON STREET
ORLANDO, FLORIDA 32801

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

SHEET No.	DESCRIPTION
	KEY SHEET
	NOTES TO REVIEWER
	SUMMARY OF PAY ITEMS
	TYPICAL SECTIONS
	PROJECT LAYOUT
	ROADWAY PLAN-PROFILE SHEETS
	GENERAL NOTES
	CROSS SECTIONS



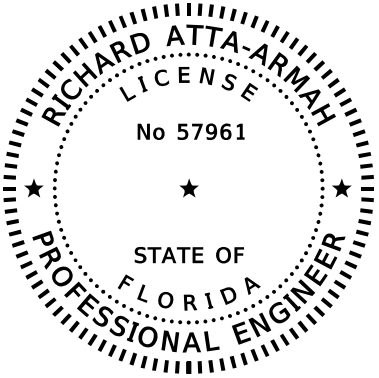
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SHEET No.	DESCRIPTION
	DRAINAGE STRUCTURES
	STORMWATER POLLUTION AND PREVENTION NOTES



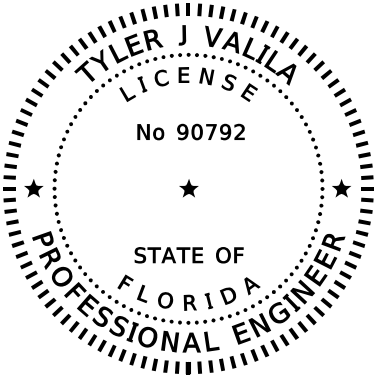
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SHEET No.	DESCRIPTION
	SIGNALIZATION GENERAL NOTES
	SIGNALIZATION PLAN
	SIGNALIZATION QUANTITIES



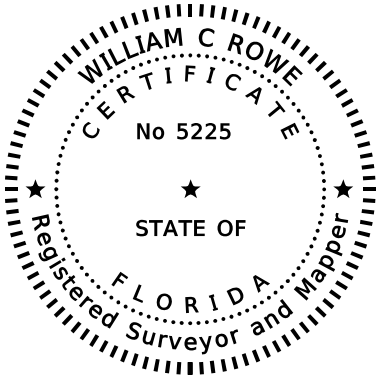
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ORLANDO, FLORIDA 32801

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SHEET No.	DESCRIPTION
	SIGNING AND PAVEMENT MARKINGS



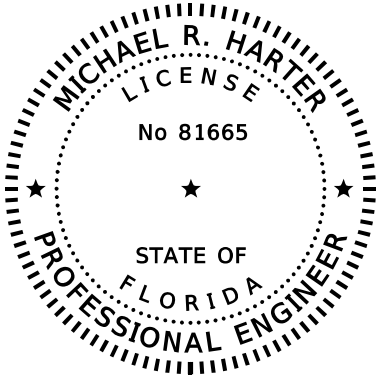
THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

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SOUTHEASTERN SURVEYING
AND MAPPING CORPORATION
6500 ALL AMERICAN BOULEVARD
ORLANDO, FLORIDA 32810

THE ABOVE NAMED PROFESSIONAL SURVEYOR AND MAPPER SHALL BE RESPONSIBLE FOR THE FOLLOWING SHEETS IN ACCORDANCE WITH RULE 5J-17.062, F.A.C.

SHEET No.	DESCRIPTION
	PROJECT CONTROLS



THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY:

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BRINDLEY PIETERS AND
ASSOCIATES, INC.
2600 MAITLAND CENTER PKWY,
SUITE 180
MAITLAND, FLORIDA 32751

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

SHEET No.	DESCRIPTION
	UTILITY ADJUSTMENTS

REVISIONS					315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242		SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		SIGNATURE SHEET			SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION									
							ROAD	COUNTY CIP No.				2
							PALM SPRINGS DR.	02307081				

\$USERS

\$DATES

\$TIMES

\$FILES

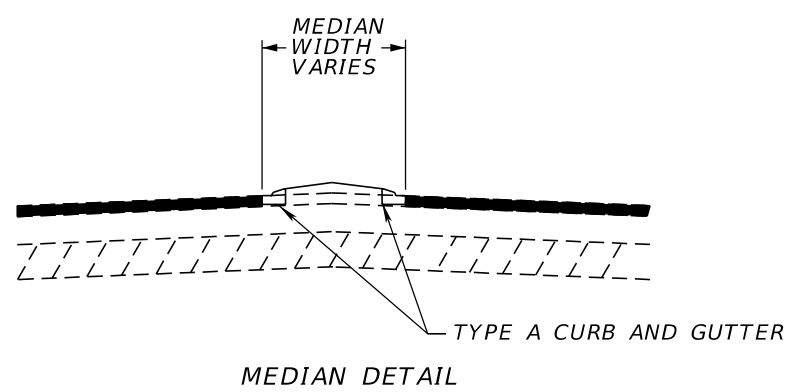
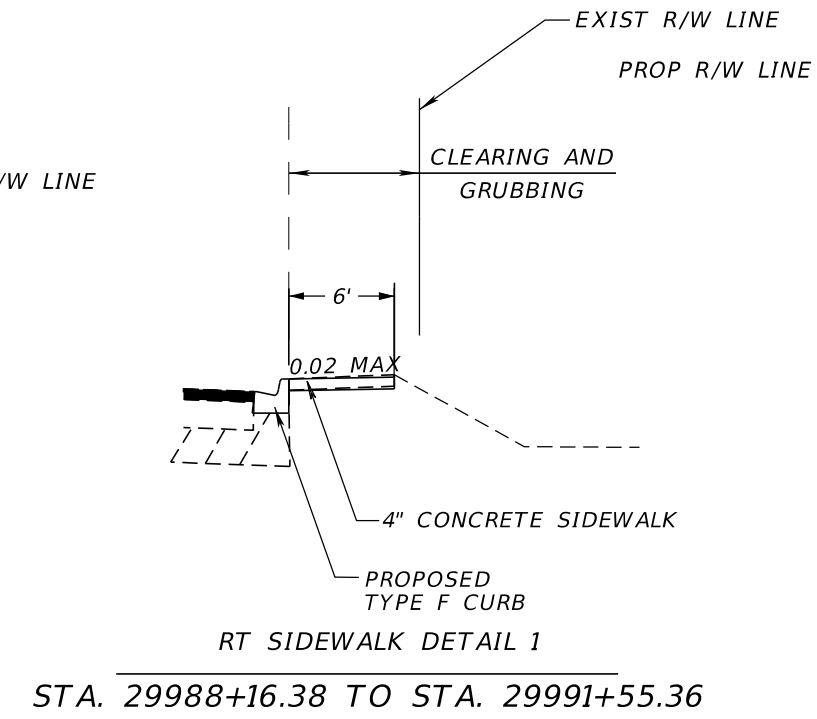
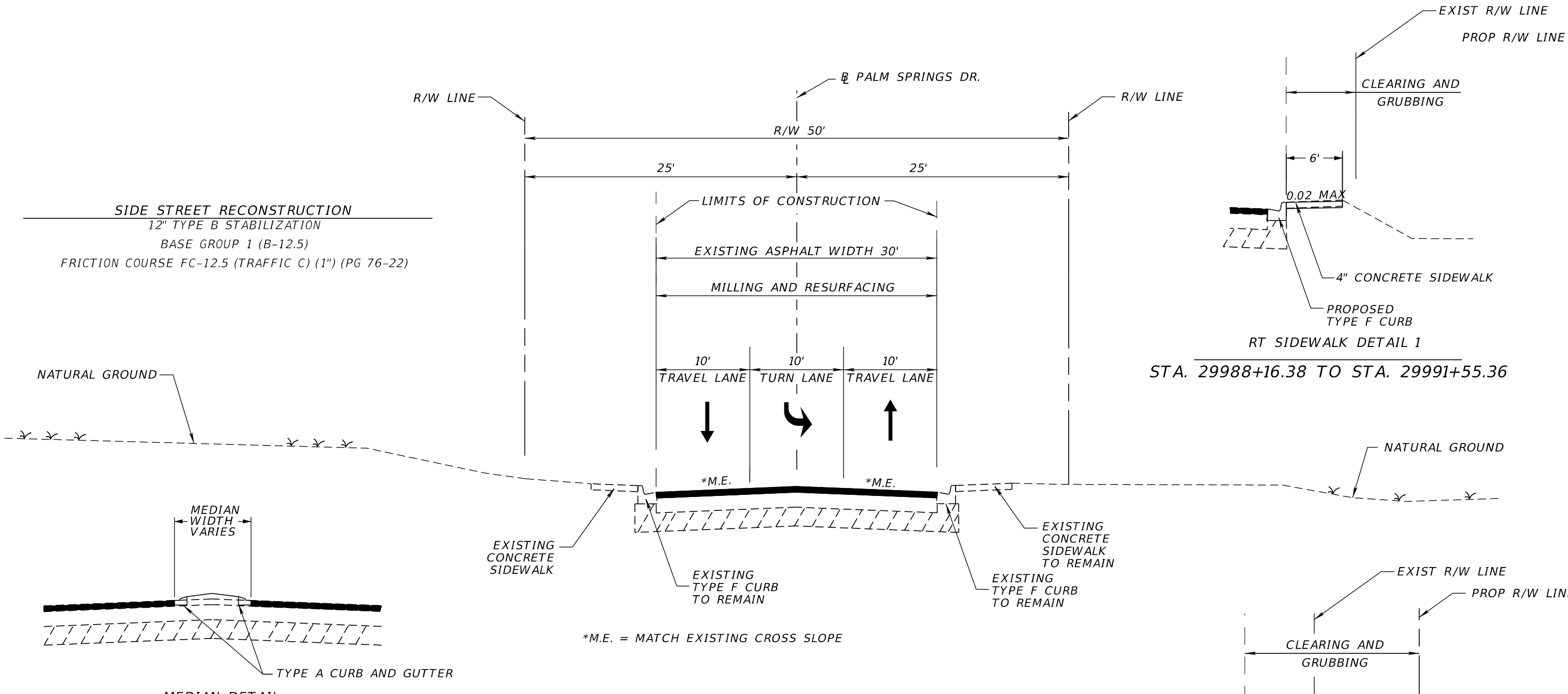
NOTES FOR REVIEWER

1. LIGHTING DESIGN TO BE COMPLETED BY DUKE ENERGY

REVISIONS				JOSHUA J. KAYE, P.E. LICENSE NO. 73894  315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		NOTES FOR REVIEWER	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					PALM SPRINGS DR.	02307081		3

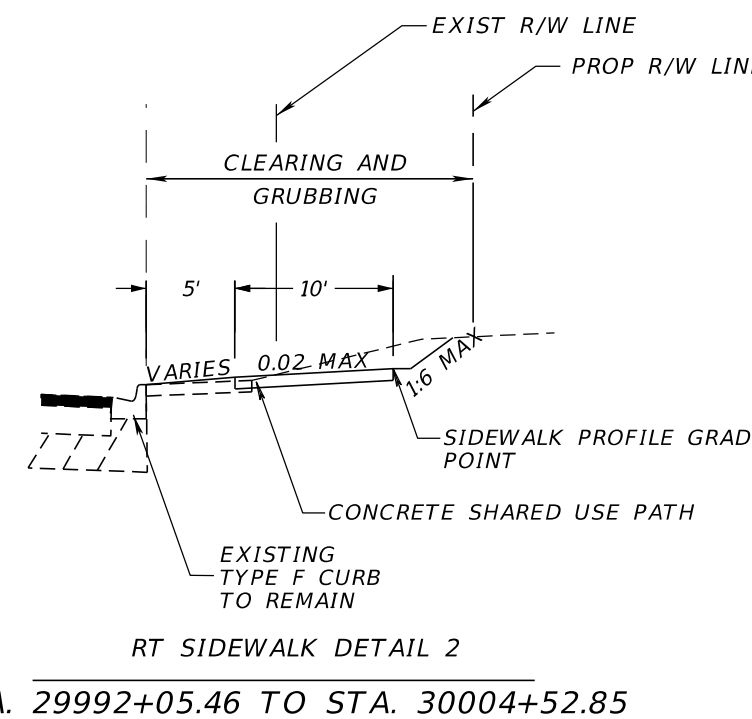
SUMMARY OF PAY ITEMS				
PAY ITEM	DESCRIPTION	UNIT	QUANTITY	
			PLAN	FINAL
101-1	MOBILIZATION	LS		
102-1	MAINTENANCE OF TRAFFIC	LS		
0104 10 3	SEDIMENT BARRIER	LF		
0104 18	INLET PROTECTION SYSTEM	EA		
0107 1	LITTER REMOVAL	AC		
0107 2	MOWING	AC		
0110 1 1	CLEARING & GRUBBING	AC		
0110 4 10	REMOVAL OF EXIST CONC	SY		
0120 1	REGULAR EXCAVATION	CY		
0120 6	EMBANKMENT	CY		
0160 4	TYPE B STABILIZATION	SY		
0285708	OPTIONAL BASE,BASE GROUP 08, TYPE B-12.5	SY		
0327 70 5	MILLING EXIST ASPH PAVT, 2" AVG DEPTH	SY		
0334 1 53	SUPERPAVE ASPH CONC, TRAF C, PG76-22	TN		
0337 7 83	ASPH CONC FC,TRAFFIC C,FC-12.5,PG 76-22	TN		
0425 1311	INLETS, CURB, TYPE P-1, <10'	EA		
0425 2 93	MANHOLE TYPE 8 PARTIAL	EA		
0425 5	MANHOLE ADJUST	EA		
430174118	PIPE CULV, OPT MATL, ROUND,18"SD	LF		
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF		
0520 2 1	CONCRETE CURB, TYPE A	LF		
0520 3	VALLEY GUTTER- CONCRETE	LF		
0522 1	CONCRETE SIDEWALK AND DRIVEWAYS, 4"	SY		
0522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6"	SY		
0523 3	PATTERNED PAVEMENT	SY		
0527 2	DETECTABLE WARNINGS	SF		
0570 1 2	PERFORMANCE TURF, SOD	SY		
0700 1111	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO	EA		
0700 1500	SINGLE POST SIGN, RELOCATE	EA		
0700 1600	SINGLE POST SIGN, REMOVE	EA		
0706 1 3	RAISED PAVEMENT MARKERS, TYPE B	EA		
0710 11101	PAINTED PAVEMENT MARKINGS, STANDARD,	GM		
0710 11123	PAINTED PAVEMENT MARKINGS, STANDARD,	LF		
0710 11125	PAINTED PAVEMENT MARKINGS, STANDARD,	LF		
0710 11141	PAINTED PAVEMENT MARKINGS, STANDARD,	GM		
0710 11160	PAINTED PAVEMENT MARKINGS, STANDARD,	EA		
0710 11170	PAINTED PAVEMENT MARKINGS, STANDARD,	EA		
0710 11201	PAINTED PAVEMENT MARKINGS, STANDARD,	GM		
0710 11224	PAINTED PAVEMENT MARKINGS, STANDARD,	LF		
0710 11241	PAINTED PAVEMENT MARKINGS, STANDARD,	GM		
0710 11290	PAINTED PAVEMENT MARKINGS, STANDARD,	SF		
0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	LF		
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF		
0711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4	GM		
0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE	EA		
0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA		
0711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18"	LF		
0711 11241	THERMOPLASTIC, STANDARD, YELLOW, 2-4	GM		
0711 14125	THERMOPLASTIC, STANDARD, PREFORMED	LF		
0711 16101	THERMOPLASTIC, STANDARD-OTHER SURFACES,	GM		
0711 16201	THERMOPLASTIC, STANDARD-OTHER SURFACES,	GM		

REVISIONS				JOSHUA J. KAYE, P.E. LICENSE NO. 73894 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242 	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		SUMMARY OF PAY ITEMS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					PALM SPRINGS DR.	02307081		
								4



TYPICAL SECTION
PALM SPRINGS DRIVE
STA. 29964+85.98 TO STA. 30004+52.85

MILLING
MILL EXISTING ASPHALT PAVEMENT FOR DEPTH (2")
RESURFACING
FRICTION COURSE FC-12.5 (TRAFFIC C) (2") (PG 76-22)



STA. 29965+54.89 TO STA. 29966+05.04
STA. 29969+84.84 TO STA. 29970+55.22
STA. 29978+89.88 TO STA. 29980+35.57
STA. 29983+19.92 TO STA. 29983+80.01
STA. 29986+54.95 TO STA. 29987+05.09
STA. 29989+95.00 TO STA. 29990+56.00
STA. 29993+63.69 TO STA. 29994+51.26
STA. 29996+53.26 TO STA. 29998+11.70

TRAFFIC DATA

DESIGN SPEED = 25 MPH
POSTED SPEED = 25 MPH

REVISIONS				JOSHUA J. KAYE, P.E. LICENSE NO. 73894 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
					ROAD	COUNTY CIP No.	
					PALM SPRINGS DR.	02307081	
				TYPICAL SECTIONS			5

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

PALM SPRINGS ROADWAY (ROLLING HILLS)

SECTION 12, TOWNSHIP 21 SOUTH, RANGE 29 EAST, SEMINOLE COUNTY, FLORIDA

SURVEY CONTROL MAP
NOT TO SCALE



SYMBOL & ABBREVIATIONS LEGEND:

- ⊕

= BENCHMARK

▲

= STATION PC, PT, PI

BL

= SURVEY BASELINE

LT

= LEFT

RT

= RIGHT

LB

= LICENSED BUSINESS

STA

= STATION

PI

= POINT OF INTERSECTION

— X —

= CHAINLINK FENCE
- = IRON ROD

⊙

= NAIL & DISK

Ⓢ

= SANITARY SEWER MANHOLE

■

= CONCRETE MONUMENT

⊕

= COMBINATION POLE

ⓓ

= DRAINAGE MANHOLE

+

= SIGN (TRAFFIC)

Ⓤ

= UTILITY MARKER

Ⓦ

= WATER VALVE
- ADA

= AMERICAN DISABILITIES ACT

PSM

= PROFESSIONAL SURVEYOR & MAPPER

PRM

= PERMANENT REFERENCE MONUMENT

SSMC

= SOUTHEASTERN SURVEYING & MAPPING
- TREE LEGEND:

SIZE SHOWN IS SHOWN IS TRUNK DIAMETER IN INCHES MEASURED AT CHEST HEIGHT

☼

= TREE

PI

= PINE

UK

= UNKNOWN

H

= HOLLY
- DESCRIPTION:
- A PORTION OF SECTION 12, TOWNSHIP 21 SOUTH, RANGE 29 EAST, LYING IN SEMINOLE COUNTY, FLORIDA.
- SURVEYOR'S REPORT:
1. UTILITY LOCATIONS SHOWN HEREON ARE BASED ON FIELD LOCATIONS OF MARKINGS BY SOUTHEASTERN SURVEYING & MAPPING CORP. FIELD MARKINGS ARE BASED ON SIGNALS RECEIVED FROM GROUND PENETRATING RADAR (GPR) AND ELECTRONIC EQUIPMENT. LOCATIONS ARE APPROXIMATE AND TEST HOLES SHOULD BE PERFORMED FOR VERIFICATION.

2. EASEMENTS OR RIGHTS OF WAY THAT APPEAR ON RECORDED PLANS OR THAT HAVE BEEN FURNISHED TO THE SURVEYOR BY OTHERS HAVE BEEN INCORPORATED INTO THIS DRAWING WITH APPROPRIATE NOTATION. OTHER EASEMENTS MAY BE DISCOVERED BY A SEARCH OF THE PUBLIC RECORDS.

3. MINIMUM HORIZONTAL ACCURACY FOR THIS SURVEY IS IN ACCORDANCE WITH THE STANDARDS OF PRACTICE SET FORTH BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17 REQUIREMENTS OF FLORIDA ADMINISTRATIVE CODE. THE MAP AND MEASUREMENT METHODS USED FOR THIS SURVEY MEET OR EXCEED THIS REQUIREMENT. THE DIMENSIONS SHOWN HEREON ARE IN UNITED STATES SURVEY FEET AND DECIMALS THEREOF.

4. THIS SURVEY DOES NOT DETERMINE OWNERSHIP OF THE LANDS SHOWN HEREON.

5. UNDERGROUND FOUNDATIONS HAVE NOT BEEN LOCATED.

6. SURVEY MAP AND REPORT OR THE COPIES THEREOF ARE NOT VALID WITHOUT THE ORIGINAL SIGNATURE AND SEAL OR THE ELECTRONIC SIGNATURE AND SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER, AND IF SHOWN HEREON IS IN COMPLIANCE WITH FLORIDA ADMINISTRATIVE CODE 5J-17.062 AND FLORIDA STATUTE 472.025.

7. FEATURES SHOWN BY SYMBOL AS INDICATED IN THE LEGEND ARE NOT TO SCALE.

8. ADDITIONS OR DELETIONS TO SURVEY MAPS OR REPORTS BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.

9. BEARINGS SHOWN HEREON ARE BASED ON THE CENTERLINE OF PALM SPRINGS DRIVE, BEING NORTH 00°44'53" EAST. BEARINGS AND DISTANCES SHOWN HEREON ARE MEASURED UNLESS OTHERWISE NOTED.

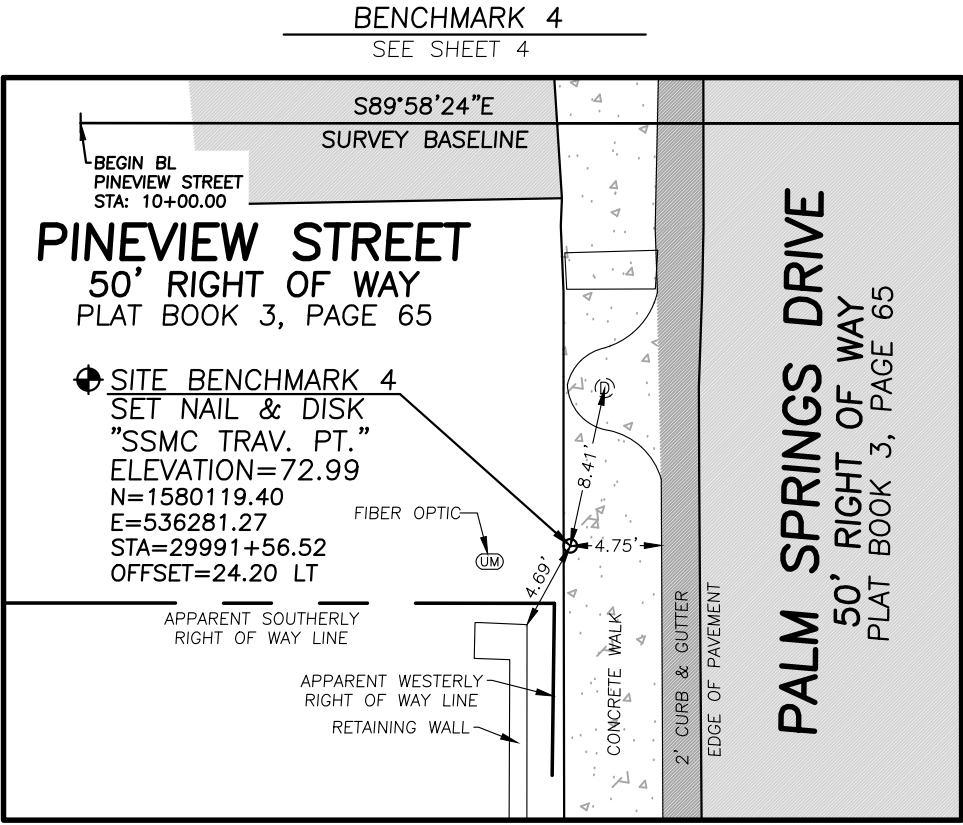
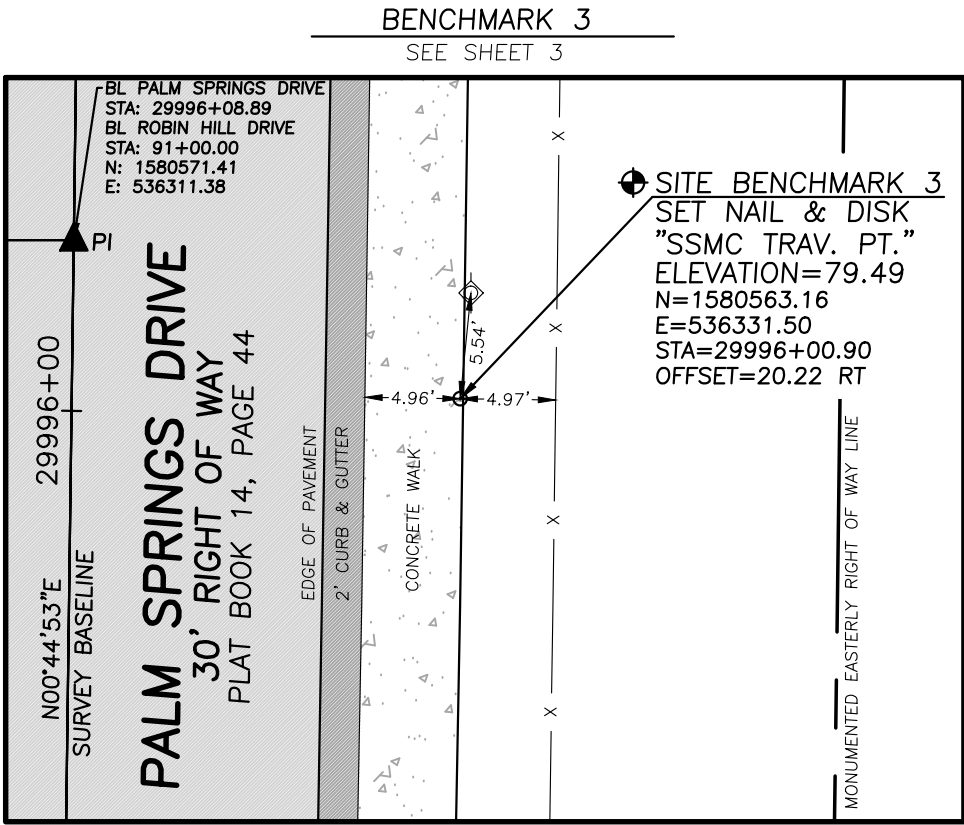
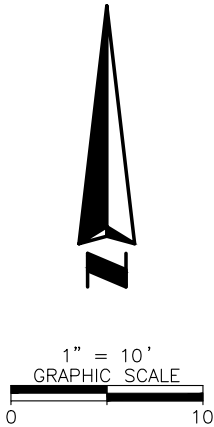
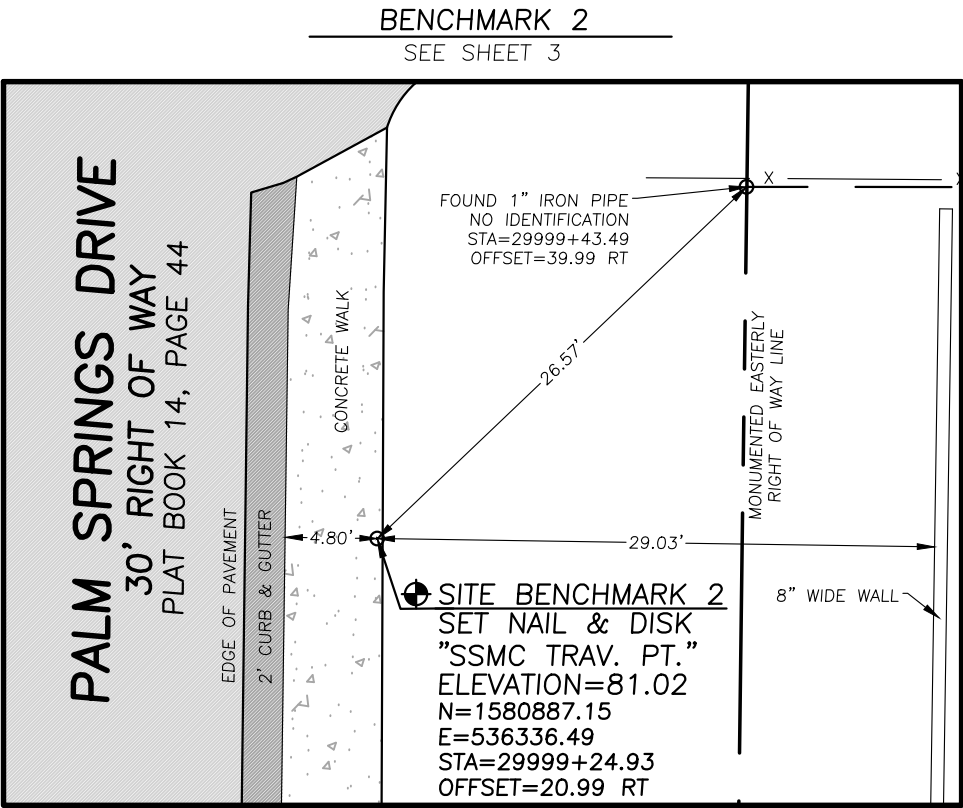
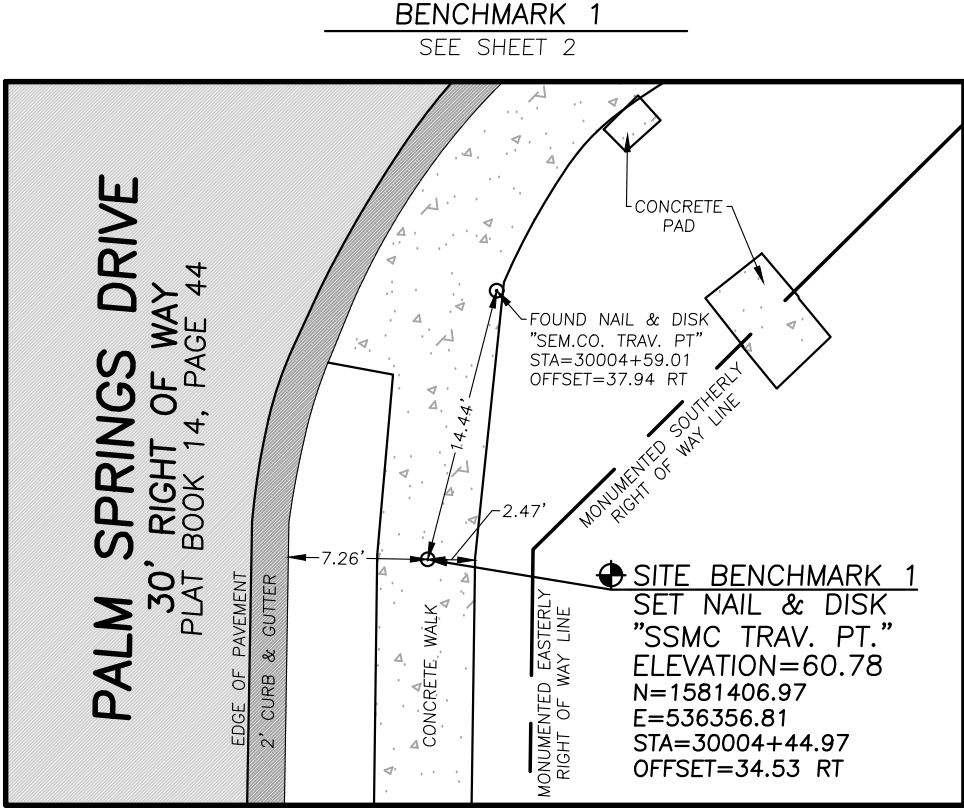
10. VERTICAL INFORMATION SHOWN HEREON REFERS TO A SEMINOLE COUNTY BENCHMARK POINT WITH DESIGNATION "8173904", OBJECT ID NUMBER 1953 AND HAS A PUBLISHED ELEVATION OF 72.510 FEET NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

11. HORIZONTAL POSITIONS FOR ALL FEATURES SHOWN ON THE MAP ARE RELATIVE TO NORTH AMERICAN DATUM OF 1983 (NAD83), 2011 ADJUSTMENT, STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE. PRIMARY CONTROL FOR THIS PROJECT WAS ESTABLISHED USING STATIC GPS METHODS AND WAS PROCESSED USING NATIONAL GEODETIC SURVEY (NGS) OPUS-RS SERVICE; DISTANCES SHOWN ARE GRID DISTANCES.

12. THIS SURVEY WAS PERFORMED WITHOUT BENEFIT OF AN ABSTRACT, TITLE SEARCH, TITLE OPINION OR TITLE COMMITMENT. A TITLE SEARCH MAY REVEAL ADDITIONAL INFORMATION AFFECTING THE PARCEL AS SHOWN.

13. UNLESS SHOWN, ONLY THOSE VISIBLE FEATURES FOUND WITHIN THE BOUNDARIES OF THIS SURVEY OR IN THE IMMEDIATE VICINITY OF THE ABOVE DESCRIBED PARCEL BOUNDARY HAVE BEEN LOCATED. IMPROVEMENTS AND TOPOGRAPHIC FEATURES SHOWN HEREON ARE LIMITED TO AREAS PER SPECIFIC INSTRUCTIONS OF THE CLIENT.

14. RIGHT OF WAY INFORMATION SHOWN HEREON WAS DETERMINED BY FOUND MONUMENTATION, RECORDED PLATS, AND INFORMATION OBTAINED ON THE SEMINOLE COUNTY PROPERTY APPRAISERS WEB SITE. NO RIGHT OF WAY DOCUMENTATION WAS PROVIDED BY CLIENT.
- NOTICE OF LIABILITY:
- THIS SURVEY IS CERTIFIED TO THOSE INDIVIDUALS SHOWN ON THE FACE THEREOF. ANY OTHER USE, BENEFIT OR RELIANCE BY ANY OTHER PARTY IS STRICTLY PROHIBITED AND RESTRICTED. SURVEYOR IS RESPONSIBLE ONLY TO THOSE CERTIFIED AND HEREBY DISCLAIMS ANY OTHER LIABILITY AND HEREBY RESTRICTS THE RIGHTS OF ANY OTHER INDIVIDUAL OR FIRM TO USE THIS SURVEY, WITHOUT EXPRESS WRITTEN CONSENT OF THE SURVEYOR.
- | REVISIONS | | | | <div><div><div></div></div><div>SSMC</div><div>SUE • SURVEY • GIS</div></div> | <div><div>WILLIAM C. ROWE, PSM</div><div>Registered Land Surveyor</div><div>Number 5225</div><div>6500 All American Boulevard</div><div>Orlando, Florida 32810-4350</div><div>(407) 292-8580</div><div>Certification Number LB2108</div></div> | SEMINOLE COUNTY | | CONTROL MAP | | SHEET NO. | | | |
|-----------|---------------------------|------|-------------|---|--|--------------------------------------|----------------|-------------|--|-----------|--|--|--|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | | ENGINEERING DIVISION | | | | | | | |
| 4/2/25 | REVISED COUNTY CIP NUMBER | | | | | ROLLING HILLS AREA ROADWAYS PHASE II | | | | | | | |
| | | | | | | ROAD | COUNTY CIP No. | | | | | | |
| | | | | | | PALM SPRINGS DR. | 02307081 | | | 6 | | | |
- BB08/19/202410:00AM61356006CM.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



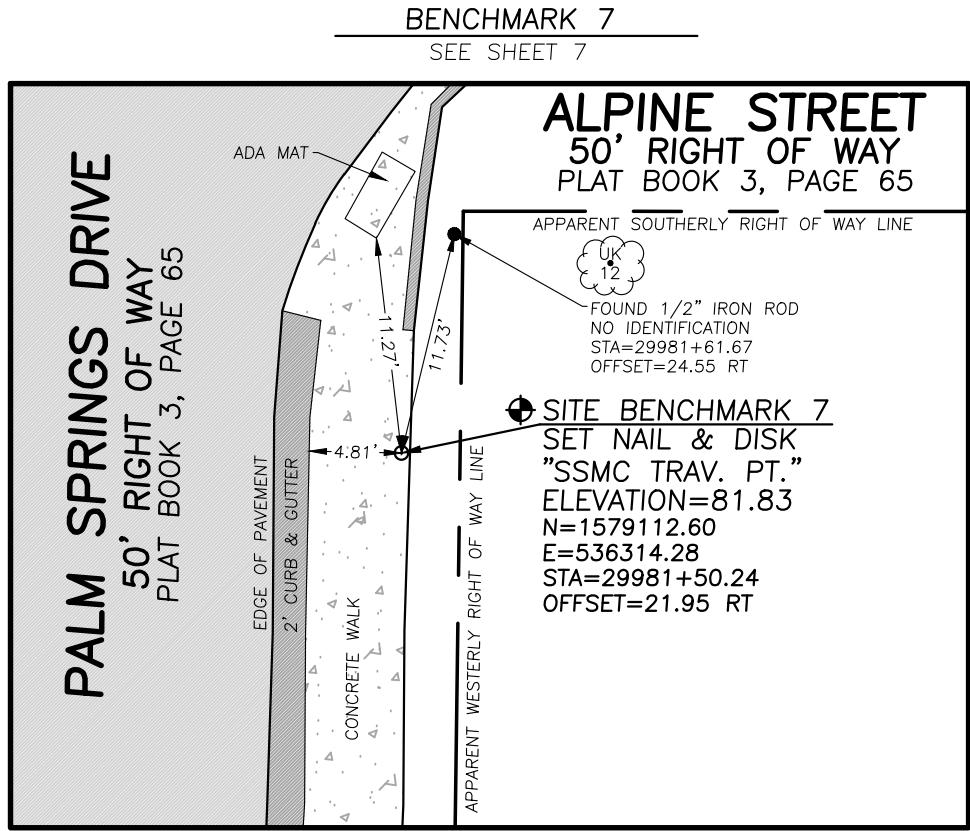
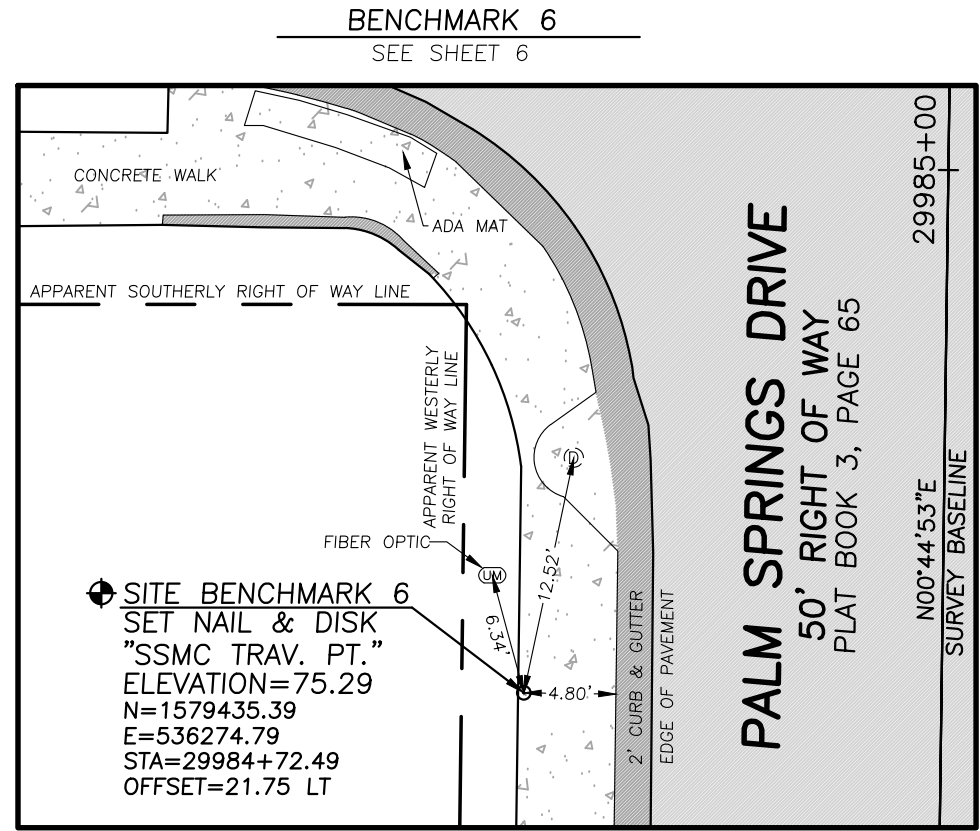
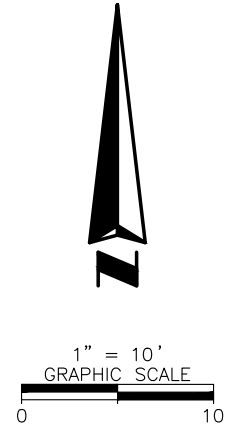
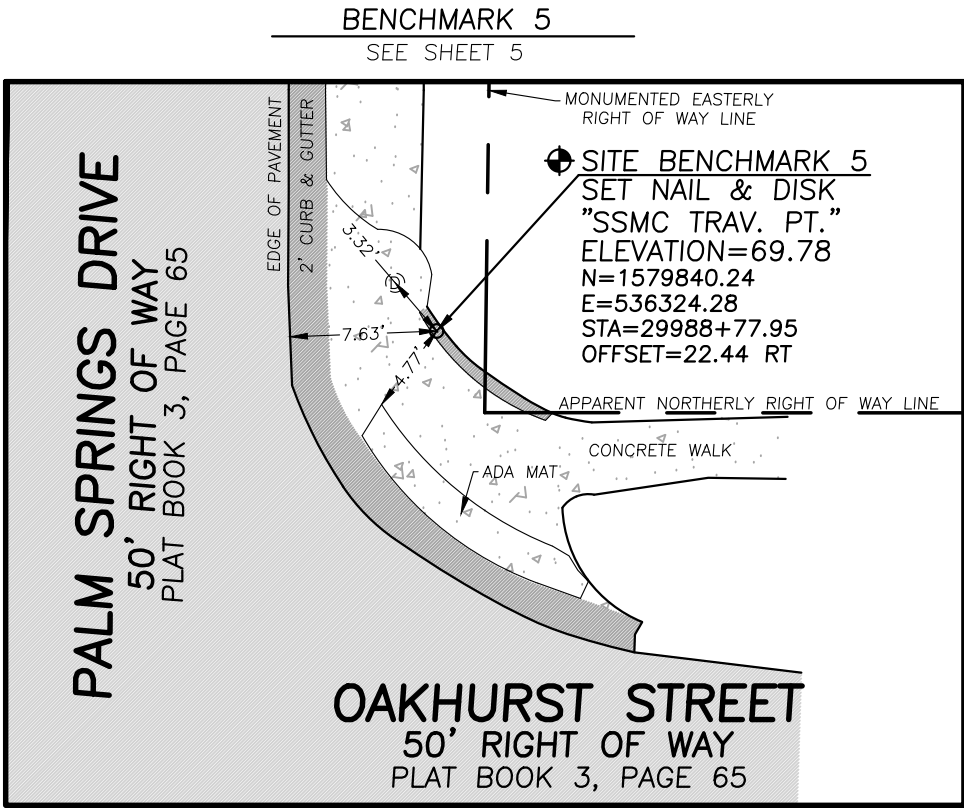
SSMC
SUE • SURVEY • GIS

THOMAS K. MEAD, PSM
Registered Land Surveyor
Number 5624
6500 All American Boulevard
Orlando, Florida 32810-4350
(407) 292-8580
Certification Number LB2108

SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE II	
ROAD	COUNTY CIP No.
PALM SPRINGS DR.	02307081

BENCHMARKS 1-4

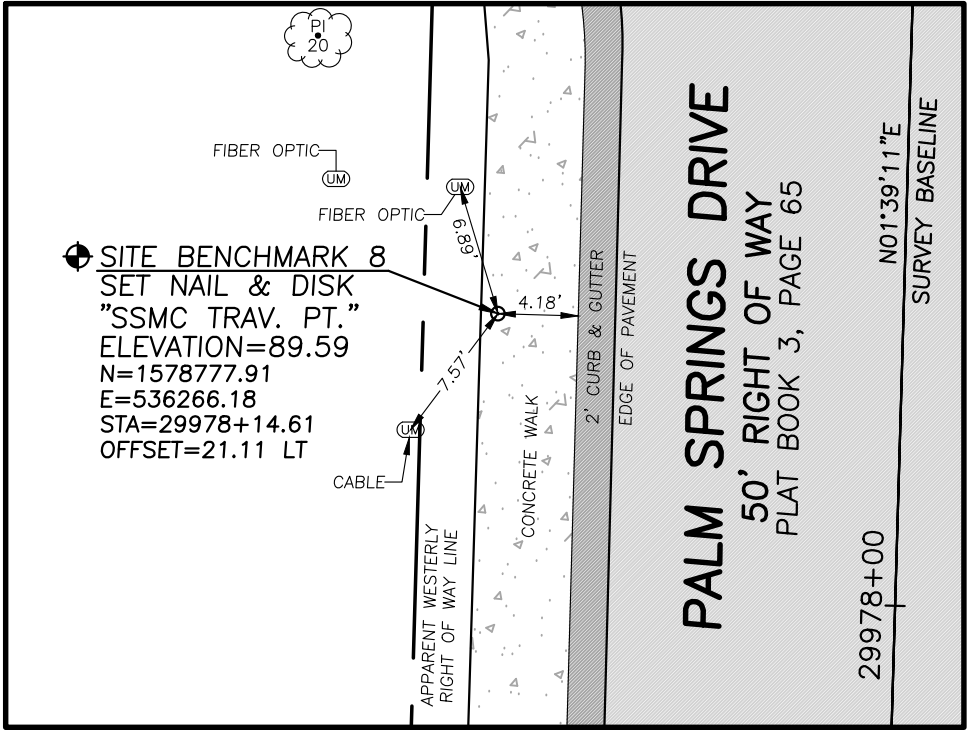
SHEET NO.
7



REVISIONS				 SUE • SURVEY • GIS	THOMAS K. MEAD, PSM Registered Land Surveyor Number 5624 6500 All American Boulevard Orlando, Florida 32810-4350 (407) 292-8580 Certification Number LB2108	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE II		BENCHMARKS 5-7		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION			ROAD	COUNTY CIP No.			
						PALM SPRINGS DR.	02307081			8

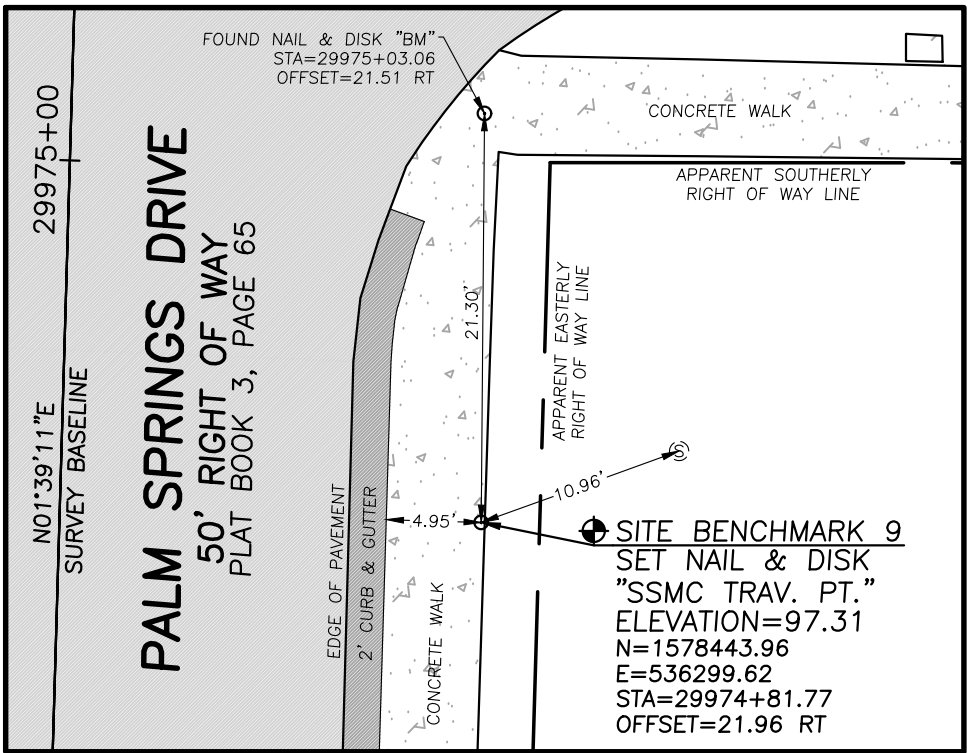
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SEE SHEET 7



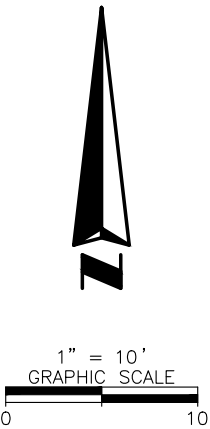
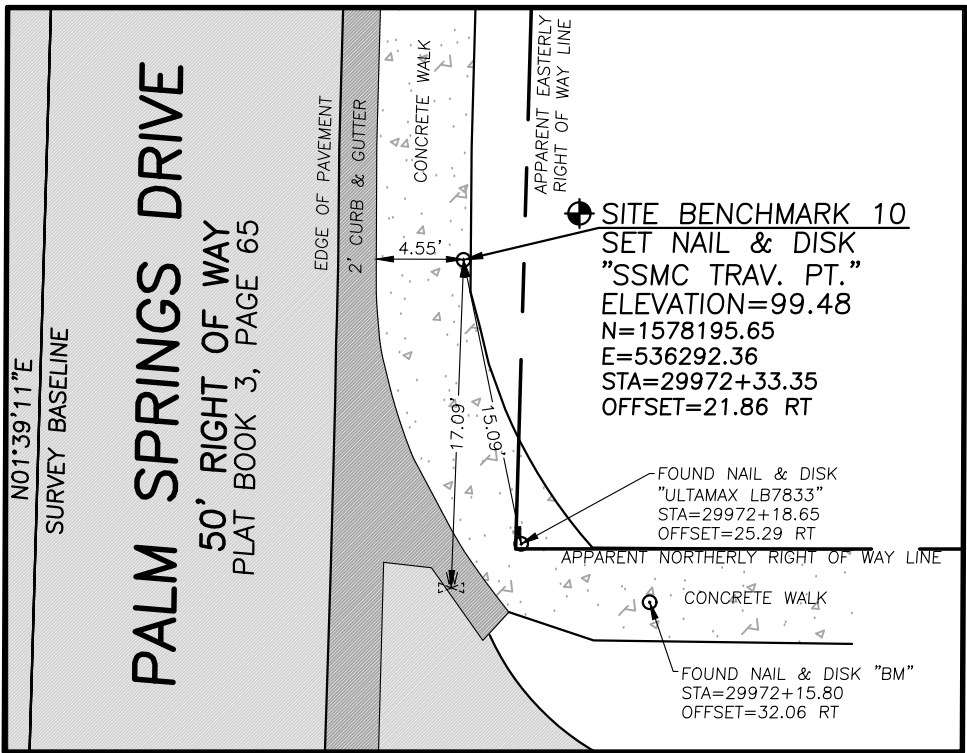
BENCHMARK 9

SEE SHEET 8



BENCHMARK 10

SEE SHEET 9



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



THOMAS K. MEAD, PSM
Registered Land Surveyor
Number 5624
6500 All American Boulevard
Orlando, Florida 32810-4350
(407) 292-8580
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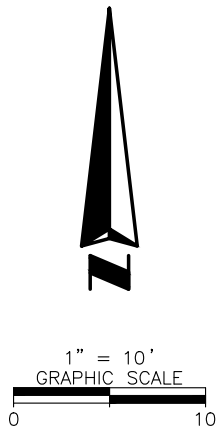
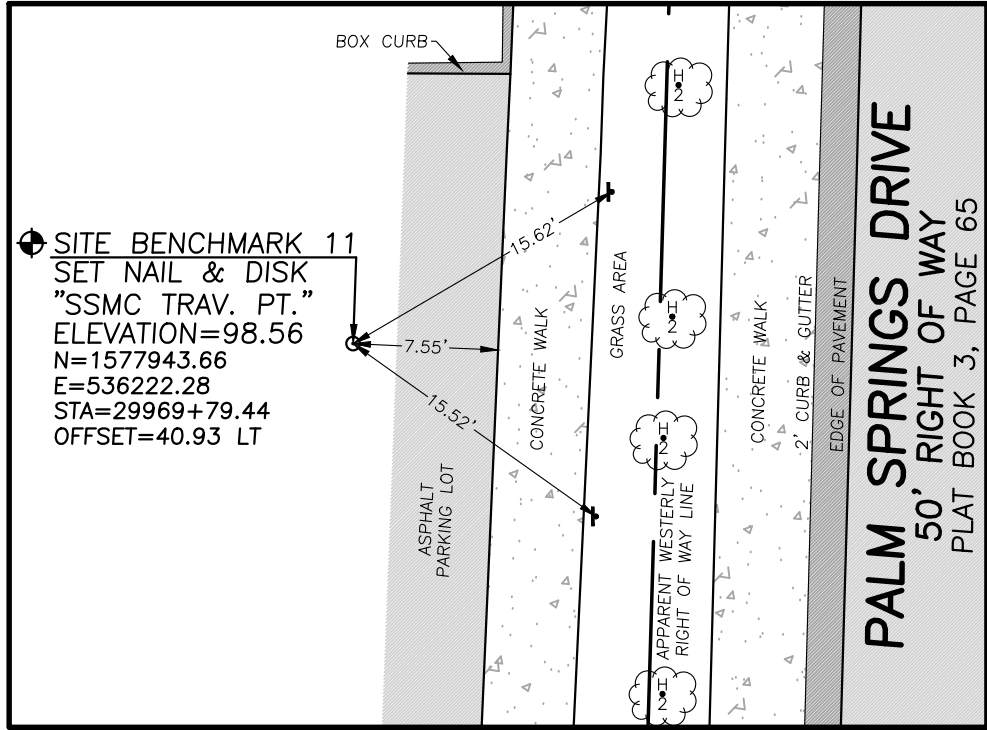
SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE II	
ROAD	COUNTY CIP No.
PALM SPRINGS DR.	02307081

BENCHMARKS 8-10

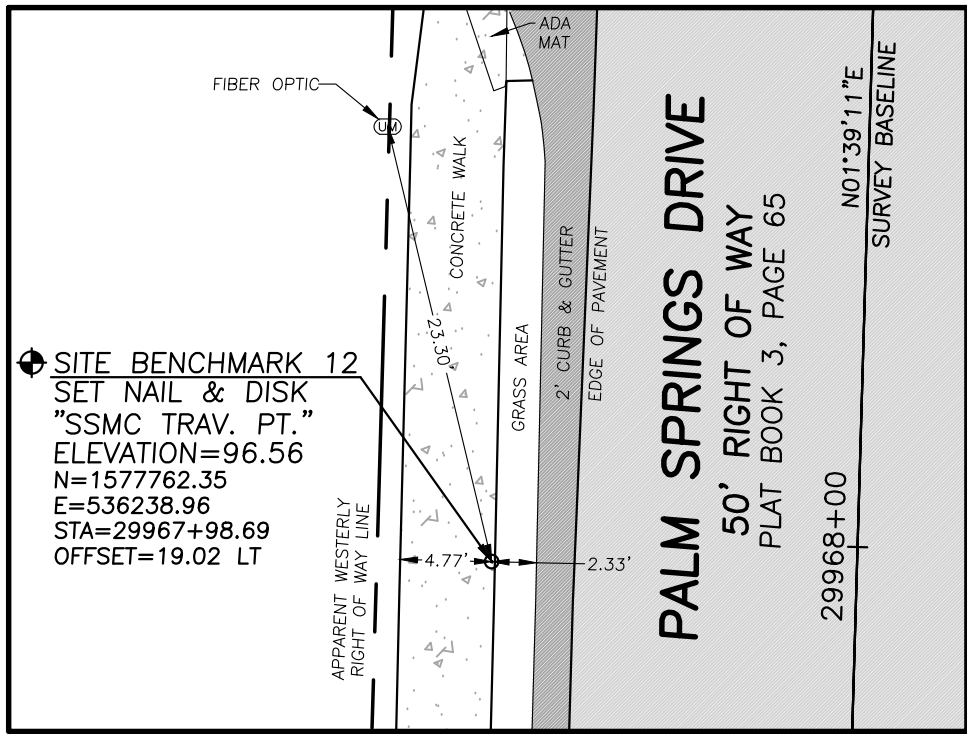
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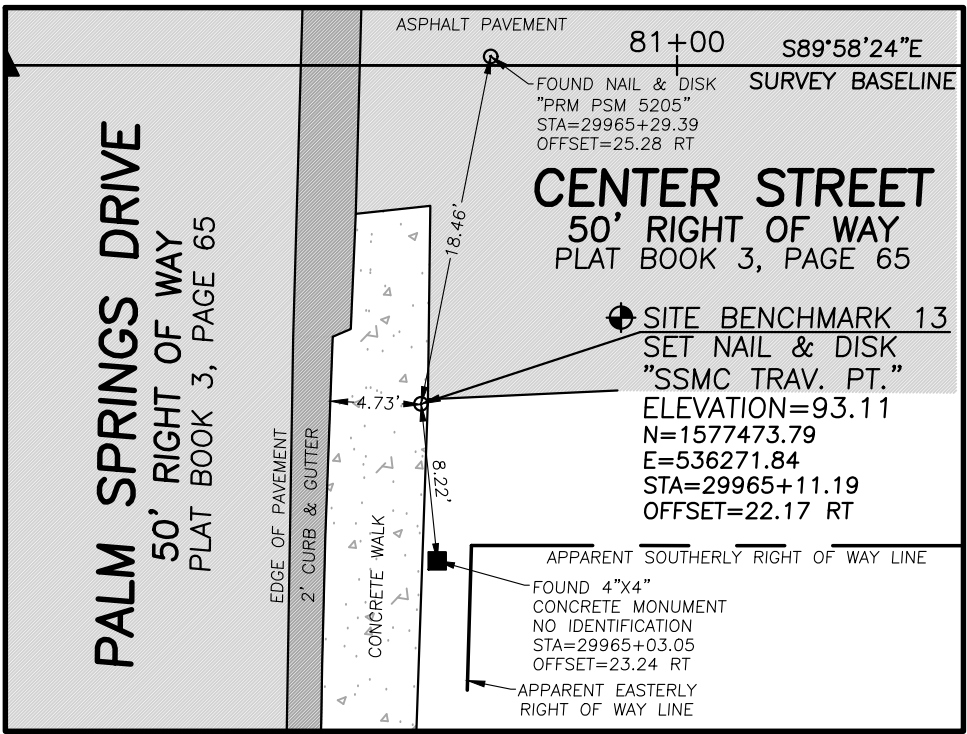
BENCHMARK 11
SEE SHEET 9



BENCHMARK 12
SEE SHEET 10



BENCHMARK 13
SEE SHEET 10



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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THOMAS K. MEAD, PSM
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SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE II	
ROAD	COUNTY CIP No.
PALM SPRINGS DR.	02307081

BENCHMARKS 11-13	
10	

SHEET NO.
10



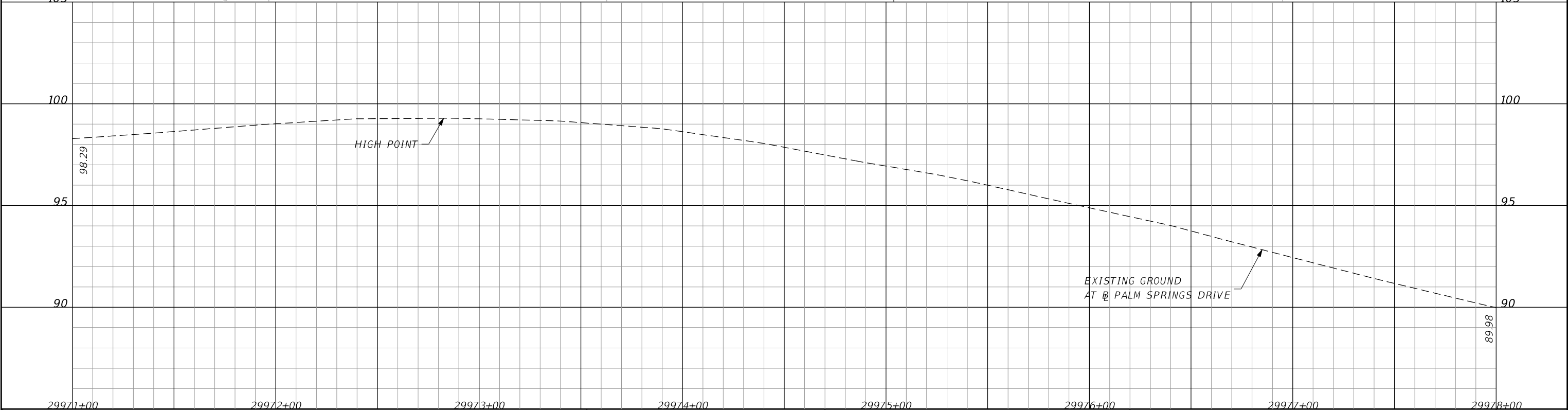
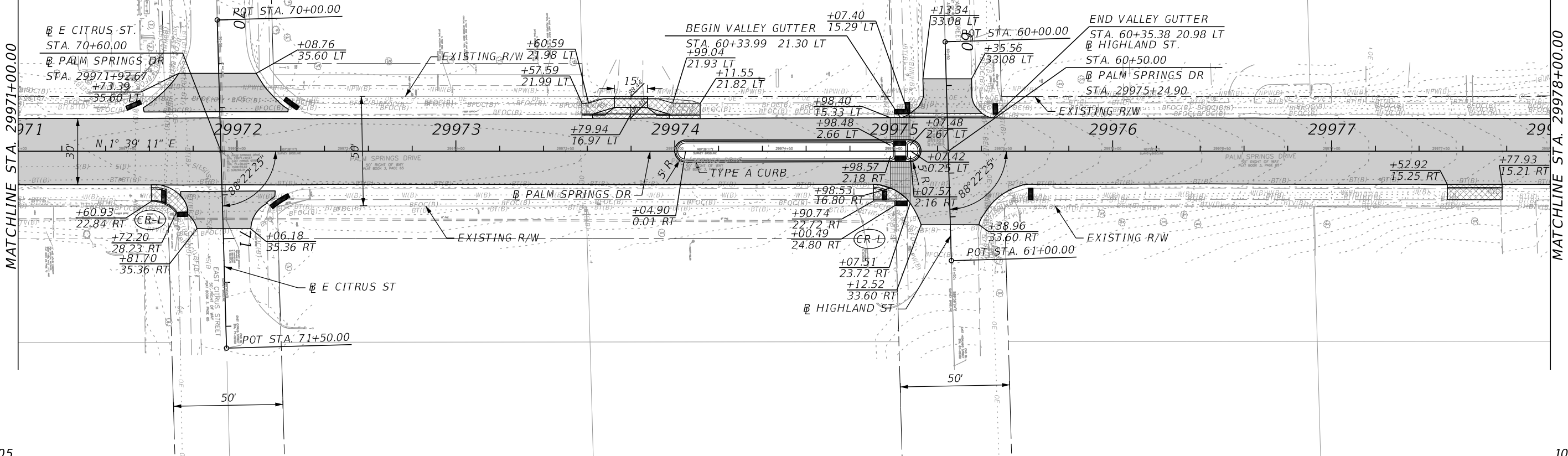
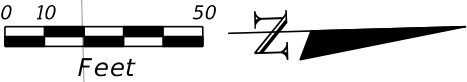
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REVISIONS				JOSHUA J. KAYE, P.E. LICENSE NO. 73894 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242 	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		PROJECT LAYOUT	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					

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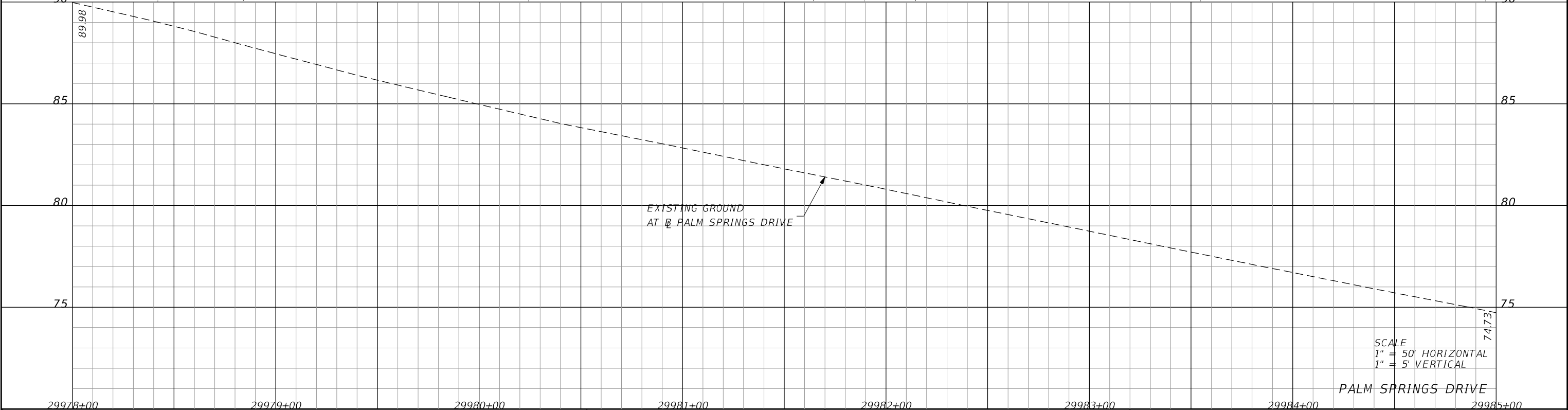
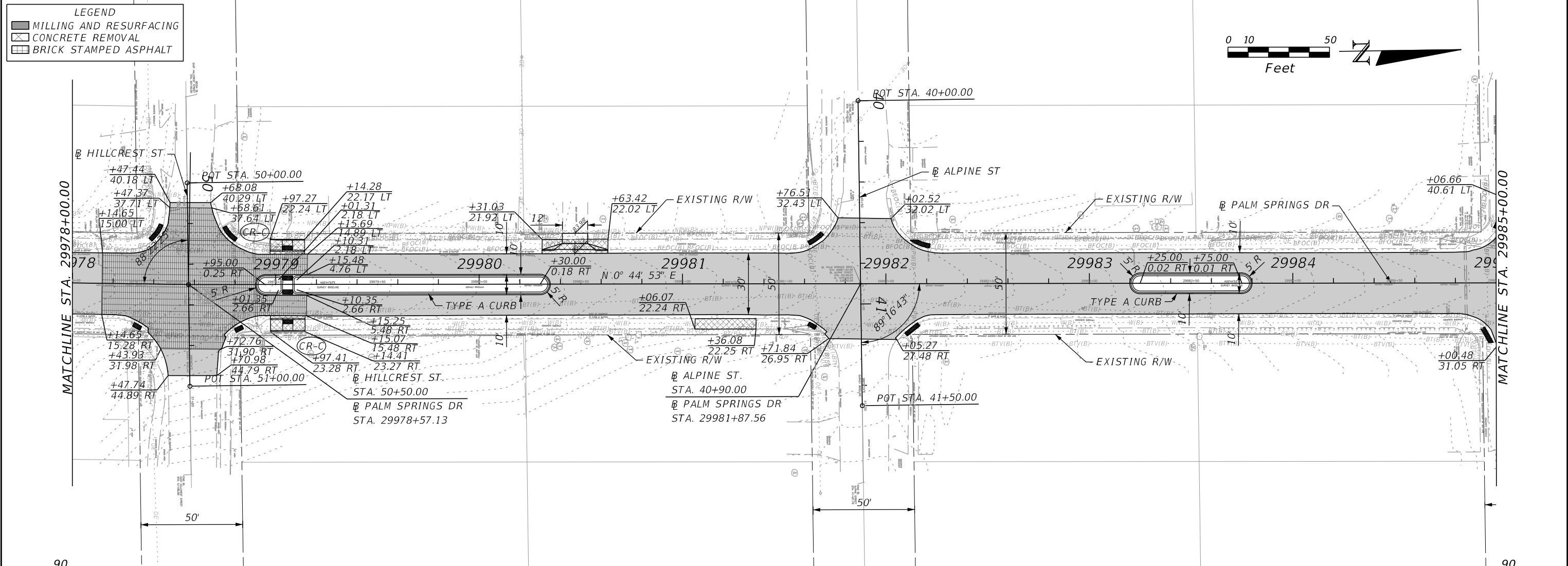
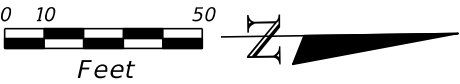
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- CONCRETE REMOVAL
- BRICK STAMPED ASPHALT



REVISIONS				JOSHUA J. KAYE, P.E. LICENSE NO. 73894 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		PLAN-PROFILE SHEET (2)	SHEET NO. 13
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
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- BRICK STAMPED ASPHALT

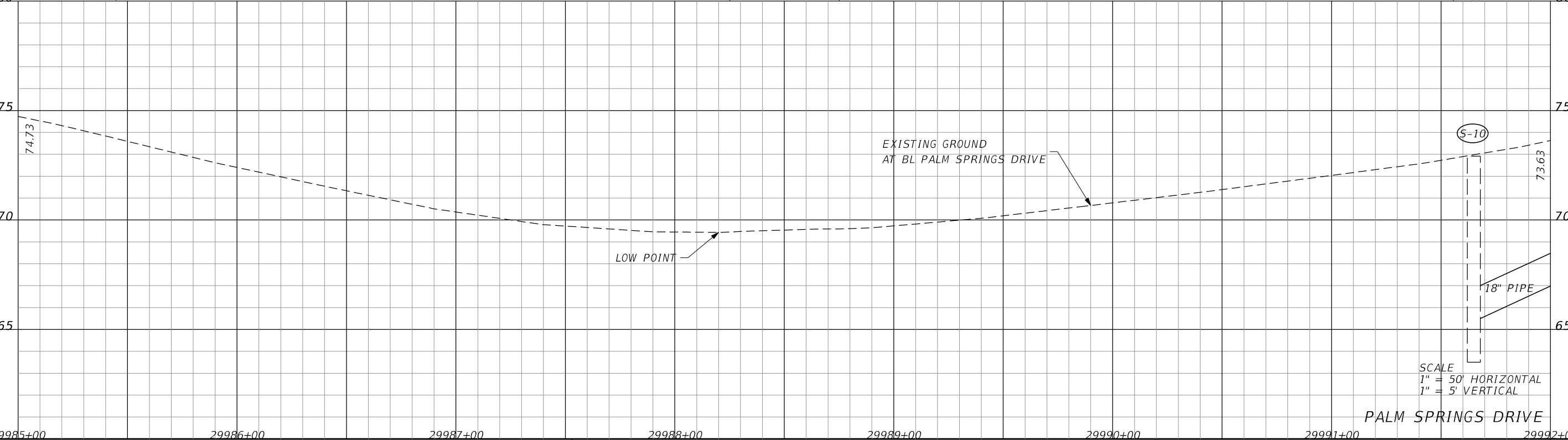
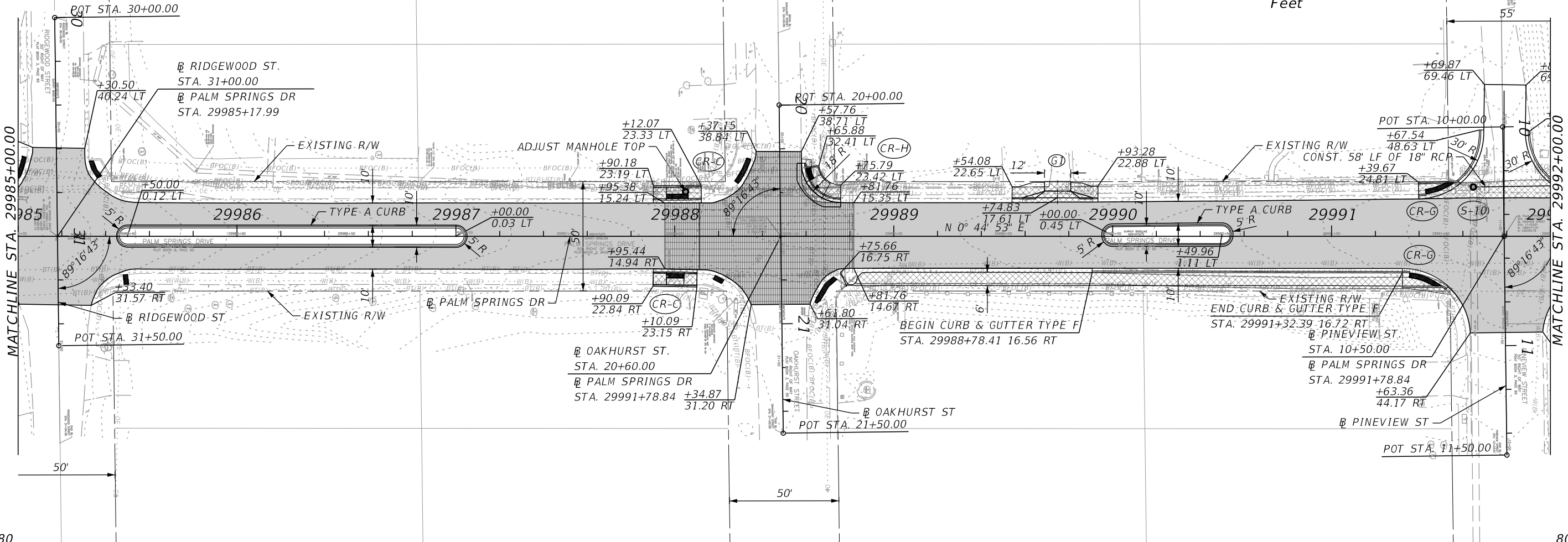
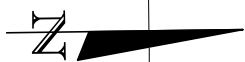
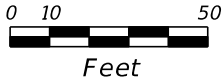


REVISIONS				JOSHUA J. KAYE, P.E. LICENSE NO. 73894 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		PLAN-PROFILE SHEET (3)	SHEET NO. 14
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					PALM SPRINGS DR.	02307081		

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LEGEND

- MILLING AND RESURFACING
- CONCRETE REMOVAL
- BRICK STAMPED ASPHALT



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOSHUA J. KAYE, P.E.
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315 E. ROBINSON ST.
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ORLANDO, FL 32801
PHONE 407.420.4200
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SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 2

ROAD	COUNTY CIP No.
PALM SPRINGS DR.	02307081

SHEET NO.	
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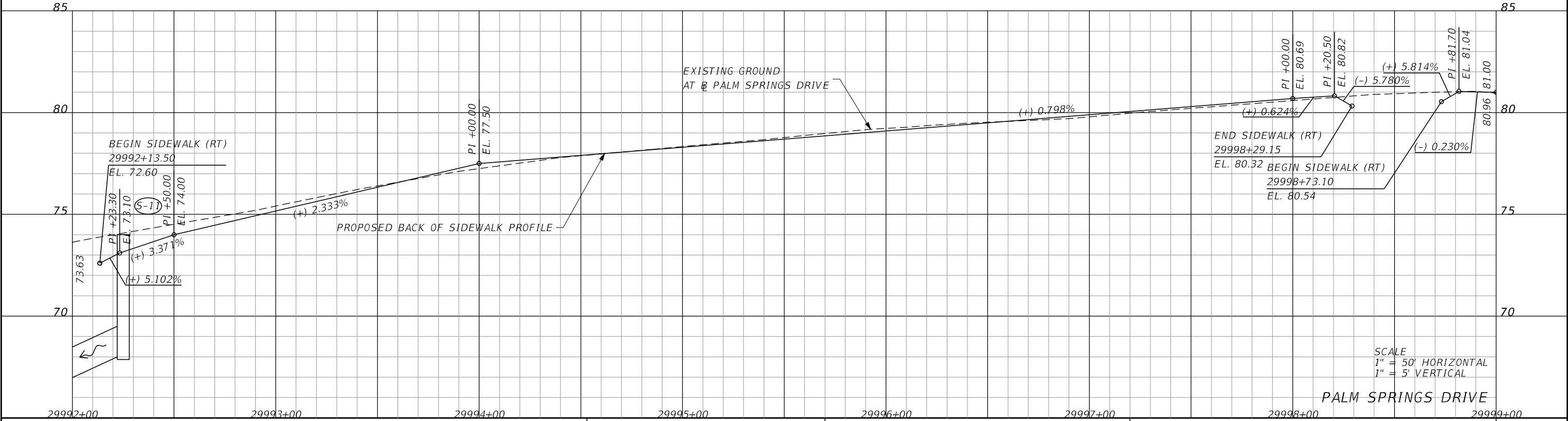
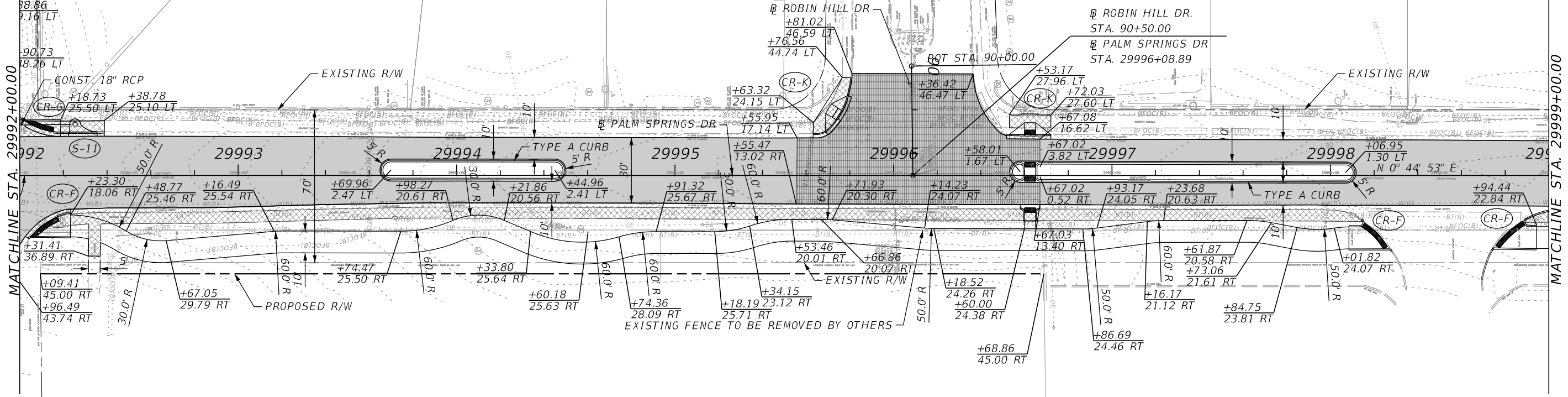
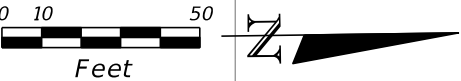
PLAN-PROFILE SHEET (4)

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LEGEND

- MILLING AND RESURFACING
- CONCRETE REMOVAL
- BRICK STAMPED ASPHALT

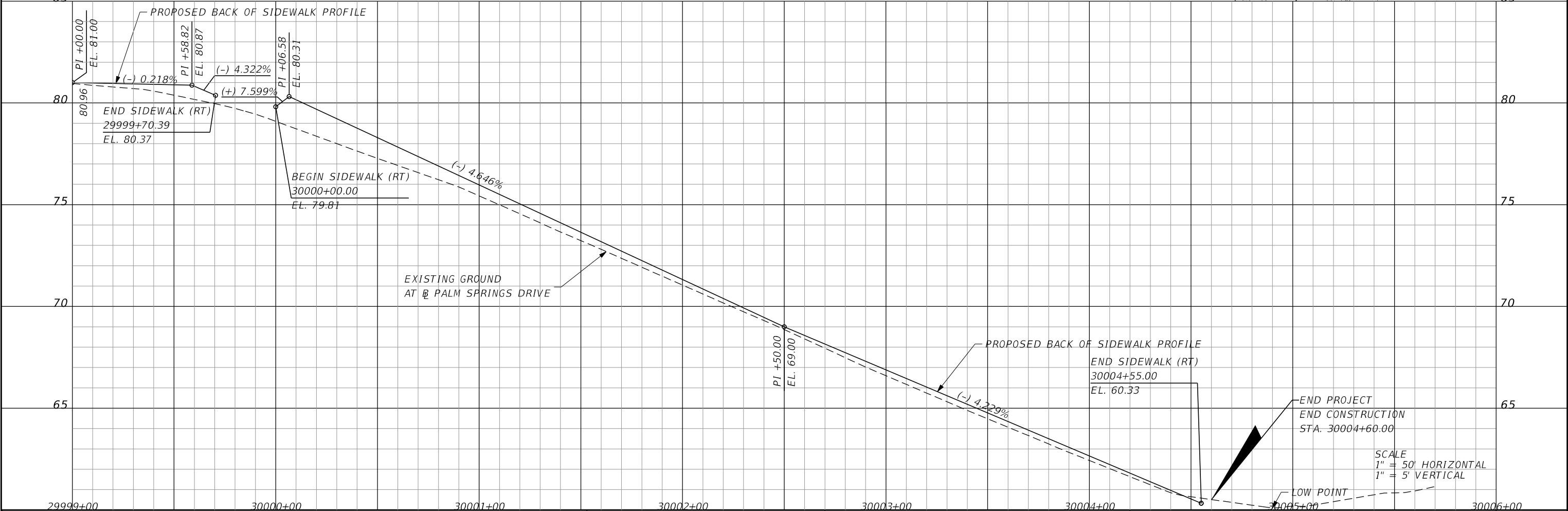
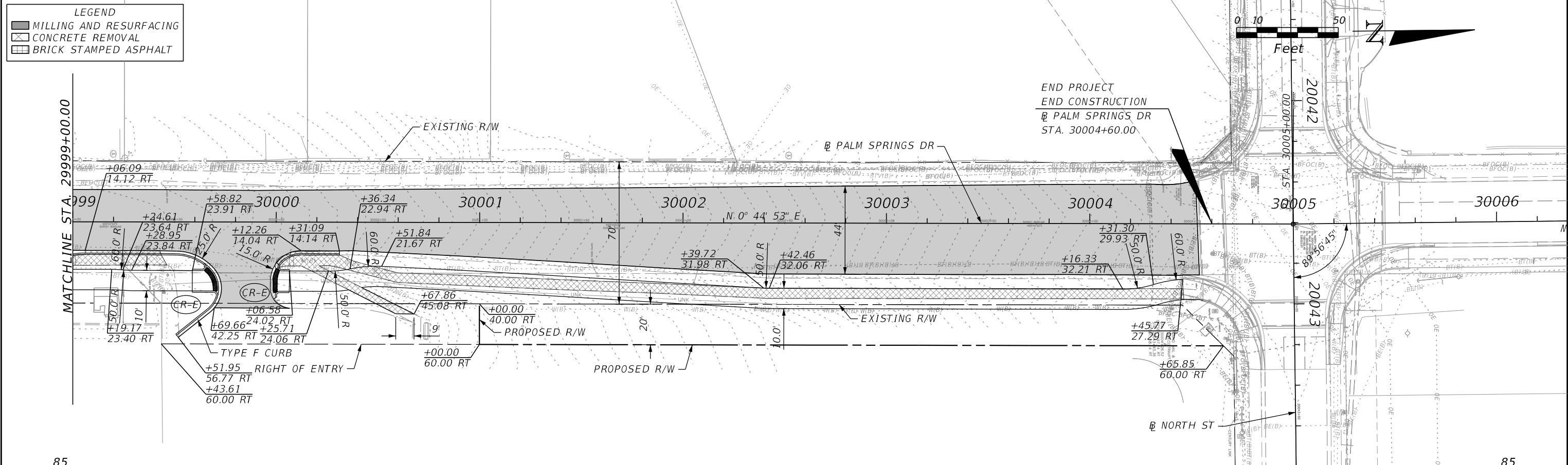


REVISIONS				JOSHUA J. KAYE, P.E. LICENSE NO. 73894 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242 	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2 <table><tr><th>ROAD</th><th>COUNTY CIP No.</th></tr><tr><td>PALM SPRINGS DR.</td><td>02307081</td></tr></table>	ROAD	COUNTY CIP No.	PALM SPRINGS DR.	02307081	PLAN-PROFILE SHEET (5)	SHEET NO.
ROAD	COUNTY CIP No.										
PALM SPRINGS DR.	02307081										
DATE	DESCRIPTION	DATE	DESCRIPTION								
			16								

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LEGEND

- MILLING AND RESURFACING
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		17
					PALM SPRINGS DR.	02307081		

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GENERAL NOTES

1.

APPARENT ERRORS, DISCREPANCIES, OR OMISSIONS ON THE DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION BEFORE BIDDING. AFTER BIDDING, THE CONTRACTOR SHALL BRING ANY DESIGN DISCREPANCIES TO THE IMMEDIATE ATTENTION OF THE ENGINEER IN WRITING, PRIOR TO CONSTRUCTION OR AS SOON AS DISCOVERED.
2.

EXERCISE CARE NOT TO DISTURB EXISTING SURVEY MONUMENTS OR PUBLIC LAND CORNERS. SHOULD ANY MONUMENTS BE DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION, THEY SHALL BE REPLACED, AT THE CONTRACTOR'S EXPENSE, BY A LICENSED SURVEYOR, REGISTERED IN THE STATE OF FLORIDA, AND APPROVED BY SEMINOLE COUNTY.
3.

BENCHMARK DATA IS FROM FOUND BENCHMARKS ON THE EXISTING PLANS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD-88).
4.

ANY NAVD-88 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL CONTACT THE GEODATIC INFORMATION CENTER.
5.

GRADES SHOWN IN THE PLANS ARE FINISHED GRADES.
6.

REVIEW ALL PERMITS AND PERMIT EXCEPTIONS LOCATED IN THE CONTRACT DOCUMENTS PRIOR TO THE BIDDING ON THE PROJECT AND BECOME FAMILIAR WITH ALL OF THE CONDITIONS OF THESE DOCUMENTS. THE CONTRACTOR SHALL INSURE THAT THE CONSTRUCTION ACTIVITIES ARE IN COMPLIANCE WITH THESE PERMITS.
7.

ABIDE BY ALL U.S. ENVIRONMENTAL PROTECTION AGENCY (EPA) REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL OF STORMWATER DISCHARGE FROM CONSTRUCTION SITES UNDER THE EPA NPDES (NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM) PROGRAM. THE CONTRACTOR SHALL DEVELOP A DETAILED EROSION CONTROL PLAN AND OBTAIN THE NPDES PERMIT FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). THE EROSION CONTROL PLAN SHALL BE IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE DRAWINGS HEREIN IN ORDER TO MINIMIZE EROSION AND DISCHARGE OF SEDIMENTS INTO COUNTY STORMWATER MANAGEMENT SYSTEM DURING CONSTRUCTION. THE PLAN SHALL BE KEPT AT THE CONSTRUCTION SITE AND SHALL BE AVAILABLE FOR REVIEW UPON REQUEST.
8.

ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE CONDITION EXISTING BEFORE COMMENCING CONSTRUCTION WORK, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION TO BE ALLOWED.
9.

ALL SWALED AREAS AND PAVED SURFACES SHALL BE GRADED TO DRAIN POSITIVELY IN THE DIRECTION INDICATED ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH THE ABOVE WITHIN THE AVAILABLE RIGHT-OF-WAY UNLESS OTHERWISE NOTED IN THE PLANS OR CONSTRUCTION DOCUMENTS. ANY CONSTRUCTION EASEMENTS OR OTHER LEGAL AGREEMENTS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR. THE ENGINEER SHALL BE CONSULTED FOR ANY AND ALL REQUIRED INTERPRETATIONS OF THE PLANS AND TO GIVE SUPPLEMENTARY INSTRUCTIONS TO ACCOMPLISH THE INTENT OF THE PLANS.
10.

CONSTRUCTION MUST BE PHASED TO ALLOW CONTINUAL ACCESS TO PRIVATE PROPERTY. THE CONTRACTOR SHALL PROVIDE SEMINOLE COUNTY AND THE ENGINEER WITH A CONSTRUCTION PHASING SCHEDULE PRIOR TO ANY WORK, DETAILING HOW PRIVATE ACCESS IS TO BE MAINTAINED. THE CONTRACTOR SHALL PLAN AND SCHEDULE THE SEQUENCE OF WORK IN ORDER TO PREVENT UNNECESSARY DELAYS OR COSTS ASSOCIATED WITH CRITICAL PATH ITEMS OF THE WORK. SEE THE TEMPORARY TRAFFIC CONTROL PLANS, INCLUDED IN THIS SET, FOR ADDITIONAL INFORMATION.
11.

LIMITS OF SODDING INDICATED ARE APPROXIMATE AND ARE TO BE ADJUSTED WHERE NECESSARY, AS DIRECTED BY THE ENGINEER, TO PROVIDE FOR CONTINUITY OF CONSTRUCTION OR TO SUIT THE ACTUAL REQUIREMENTS. ALL PROPOSED LANDSCAPING SHALL BE MAINTAINED IN A SATISFACTORY CONDITION BY THE CONTRACTOR UNTIL FINAL ACCEPTANCE BY SEMINOLE COUNTY.
12.

ALL EXISTING AND INSTALLED STORM SEWER LINES AND INLETS SHALL BE CLEANED OF DEBRIS AND ERODED MATERIALS DURING THE LAST STAGES OF CONSTRUCTION. THE COST OF THIS WORK SHALL BE INCIDENTAL TO CONSTRUCTION. BEFORE COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL BRING TO THE ATTENTION OF THE ENGINEER ALL EXISTING DRAINAGE PROBLEMS OR DRAINAGE PROBLEMS THAT WILL BE CREATED BY THIS CONSTRUCTION.
13.

SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROADBED AND EXTREME CAUTION WILL BE NECESSARY DURING STABILIZATION OPERATIONS AT THESE LOCATIONS.
14.

TEMPORARY DRAINAGE SHALL BE PROVIDED DURING CONSTRUCTION TO ELIMINATE ANY FLOODING OF PRIVATE PROPERTY AND EXISTING ROADWAYS CAUSED BY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL PROVIDE ADDITIONAL DRAINAGE AT NO ADDITIONAL COST TO THE OWNER.
15.

WHEN ENCOUNTERED, UNSUITABLE AND ASSOCIATED EXCAVATED MATERIALS SHALL BE REMOVED FROM THE RIGHT-OF-WAY AND BACKFILLED WITH SUITABLE MATERIALS. UNSUITABLE MATERIALS SHALL BE DISPOSED OF IN A LEGAL MANNER AND APPROVED BY THE OWNER.
16.

MAINTAIN EQUIPMENT AND MATERIAL STORAGE YARD UNLESS PROVIDED BY THE COUNTY.
17.

FIELD VERIFY AND PROVIDE ALL STORM SEWER DRAINAGE INVERTS PRIOR TO SUBMITTING SHOP DRAWINGS.

18.

DIGITALLY VIDEO RECORD THE EXISTING CONDITION OF ALL FENCE, GATES, AND FENCE HARDWARE LOCATED ALONG THE PROJECT CORRIDOR PRIOR TO BEGINNING CONSTRUCTION. ANY FENCE, GATES, AND FENCE HARDWARE THAT ARE DAMAGED PRIOR TO FINAL ACCEPTANCE BY SEMINOLE COUNTY SHALL BE REPLACED IN KIND AT NO ADDITIONAL COST TO THE OWNER. THIS SHALL BE INCLUDED IN THE COST OF THE PROJECT.
19.

TRAFFIC SIGNAL HEADS SHALL BE ADJUSTED/RELOCATED TO BE IN LINE WITH THE SHIFTED TRAFFIC PATTERNS DURING AND AFTER CONSTRUCTION. COST SHALL BE INCLUDED IN THE COST OF MAINTENANCE OF TRAFFIC.
20.

SUBMIT SIX COPIES OF SHOP DRAWINGS TO THE COUNTY ON ALL STRUCTURES AND RECEIVE BACK THE APPROVED SHOP DRAWINGS FROM THE COUNTY BEFORE COMMENCING WORK ON THE STRUCTURE.
21.

PROVIDE VERTICAL AND HORIZONTAL AS-BUILT INFORMATION RELATED TO ALL CONSTRUCTED UTILITIES AND STRUCTURES PRIOR TO FINAL INSPECTION IN ACCORDANCE WITH SEMINOLE COUNTY SPECIFICATIONS. ALL AS-BUILT DATA SHALL BE PROVIDED BY A FLORIDA LICENSED SURVEYOR, SIGNED, SEALED AND DATED BY THE RESPONSIBLE PARTY. AS-BUILT INFORMATION SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING: LOCATION OF ALL VALVES, FITTINGS, MANHOLES, INLETS, RAMPS, ETC., HORIZONTAL AND VERTICAL DATA FOR ANY CONSTRUCTION WHICH DEVIATES FROM THE APPROVED ENGINEERING DRAWINGS, HORIZONTAL AND VERTICAL DATA FOR ALL STORM AND SANITARY SEWER PIPES USING CCTV EQUIPMENT, AND A CD WITH CCTV VIDEO OF ALL STORMWATER PIPES, MANHOLES, AND JOINTS.
22.

ALL AFFECTED SIDEWALKS, RAMPS, AND CROSSWALKS WILL BE CONSTRUCTED AND INSPECTED TO MEET ADA REQUIREMENTS.
23.

ANY PUBLIC LAND CORNER OR COUNTY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNNER MONUMENT IS IN DANGER OF BEING DESTROYED ANS HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE SEMINOLE COUNTY SURVEYOR, SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT, IMMEDIATLY BY PHONE AT (407) 665-5656
24.

ONE WEEK PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A "CONSTRUCTION PERMIT" FROM SEMINOLE COUNTY PUBLIC WORKS, ENGINEERING DIVISION. CONTACT PERMIT COORDIANTOR AT 100 E. FIRST STREET, SANFORD, FLORIDA 32773. TELEPHONE (407) 665+5674. NO FEES REQUIRED.
25.

ALL CURB RAMPS SHALL HAVE DETECTABLE WARNINGS PER FDOT STANDARD PLANS INDEX 522-002. ALL FLUSH SHOULDER SIDEWALK ROADWAY CROSSINGS SHALL USE FDOT STANDARD PLANS INDEX 522-002 SHEET 6 OPTION B.

PAY ITEM NOTES

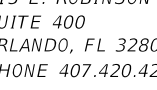
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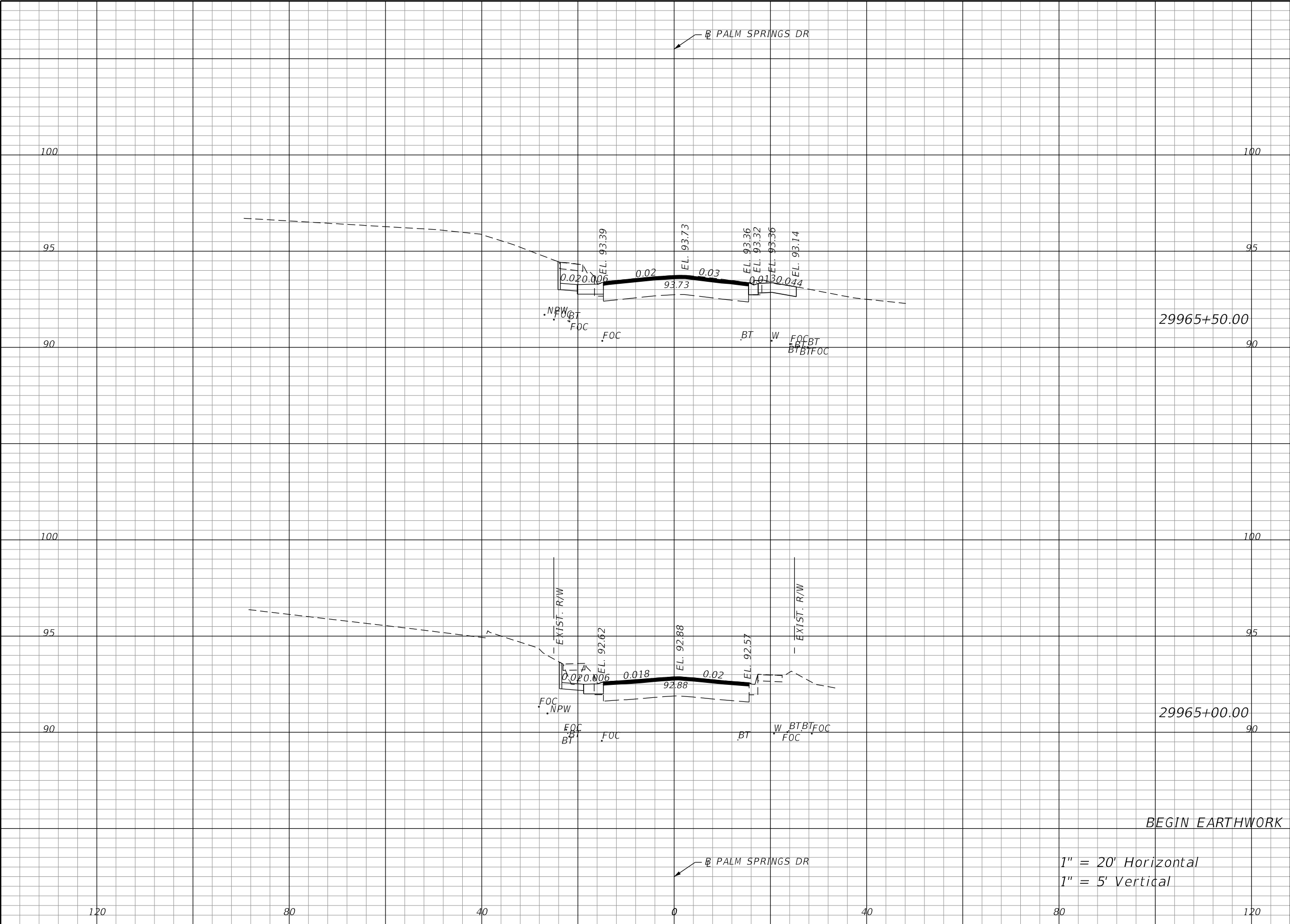
PAY ITEM NOTES SHALL BE ADDED AT A LATER SUBMITTAL.

UTILITY NOTES

1.

UTILITY NOTES SHALL BE ADDED AT A LATER SUBMITTAL.

REVISIONS				JOSHUA J. KAYE, P.E. LICENSE NO. 73894 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242 	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROADCOUNTY CIP No.			18
					PALM SPRINGS DR.02307081			



Regular		Exc.	Embankment	
A	V	A	V	
0.56	9.28	0.01	0.14	
0.27	4.49	0.00	0.07	

REVISIONS				JOSHUA J. KAYE, P.E. LICENSE NO. 73894  315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		CROSS SECTIONS	SHEET NO.
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					PALM SPRINGS DR.	02307081		

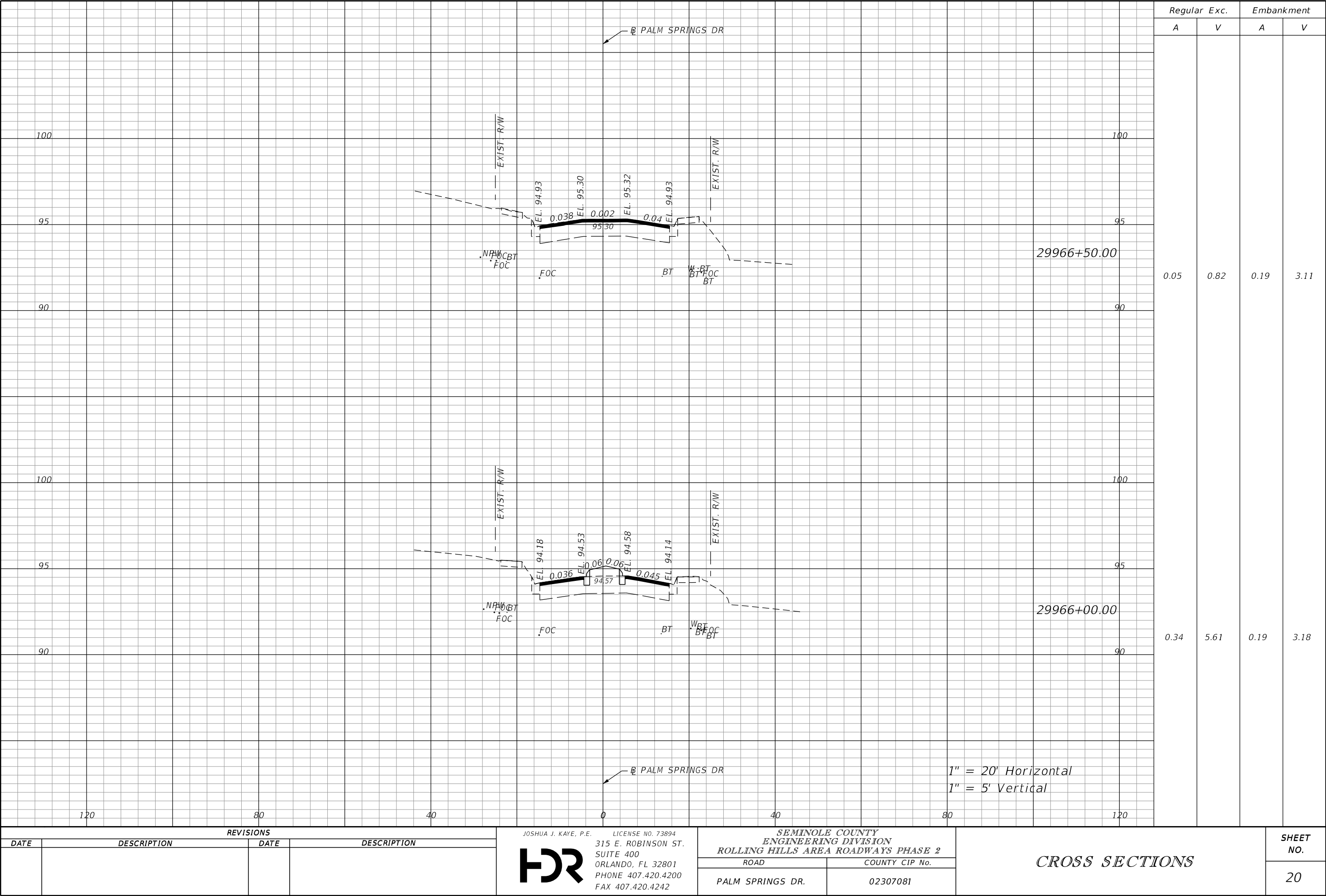
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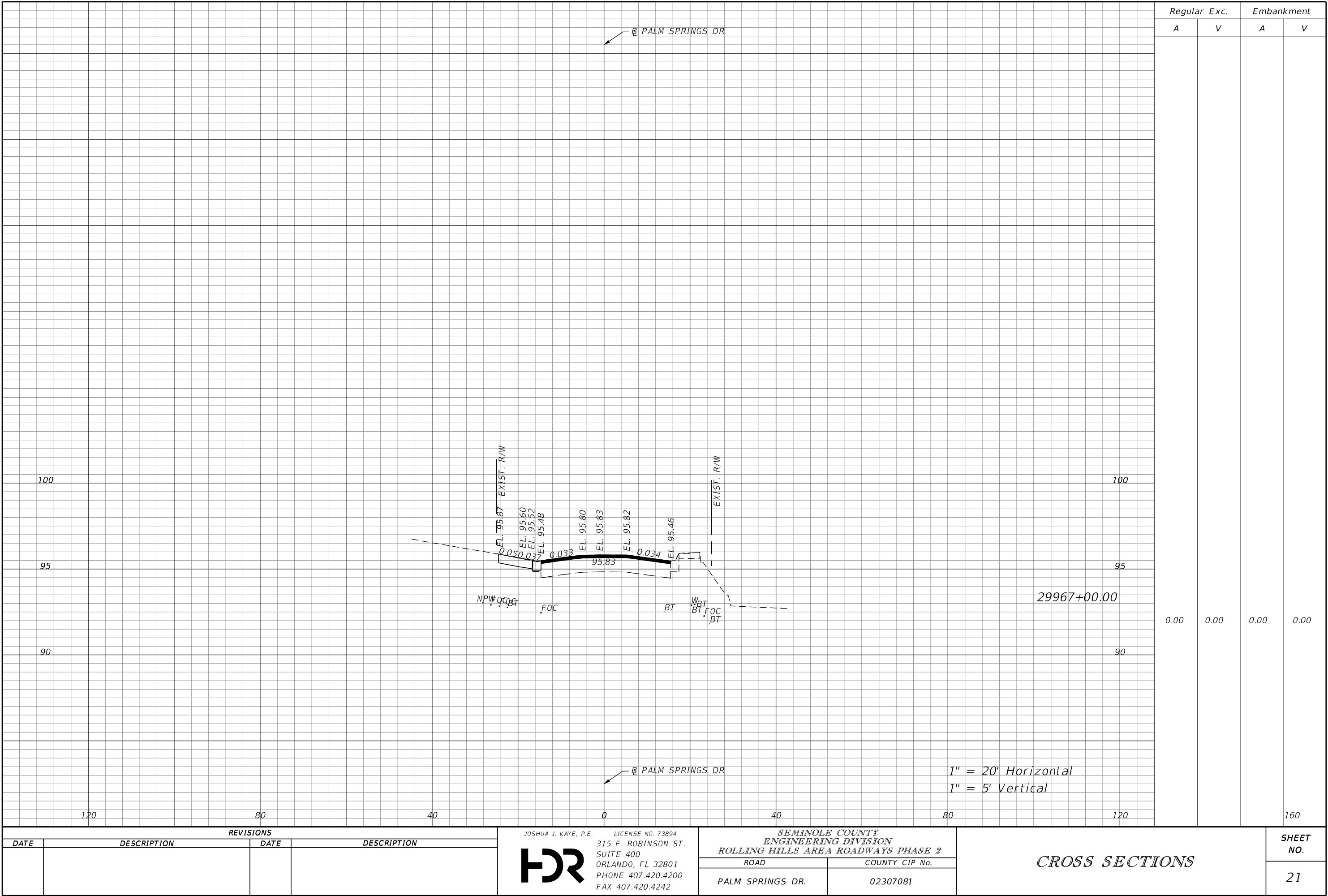
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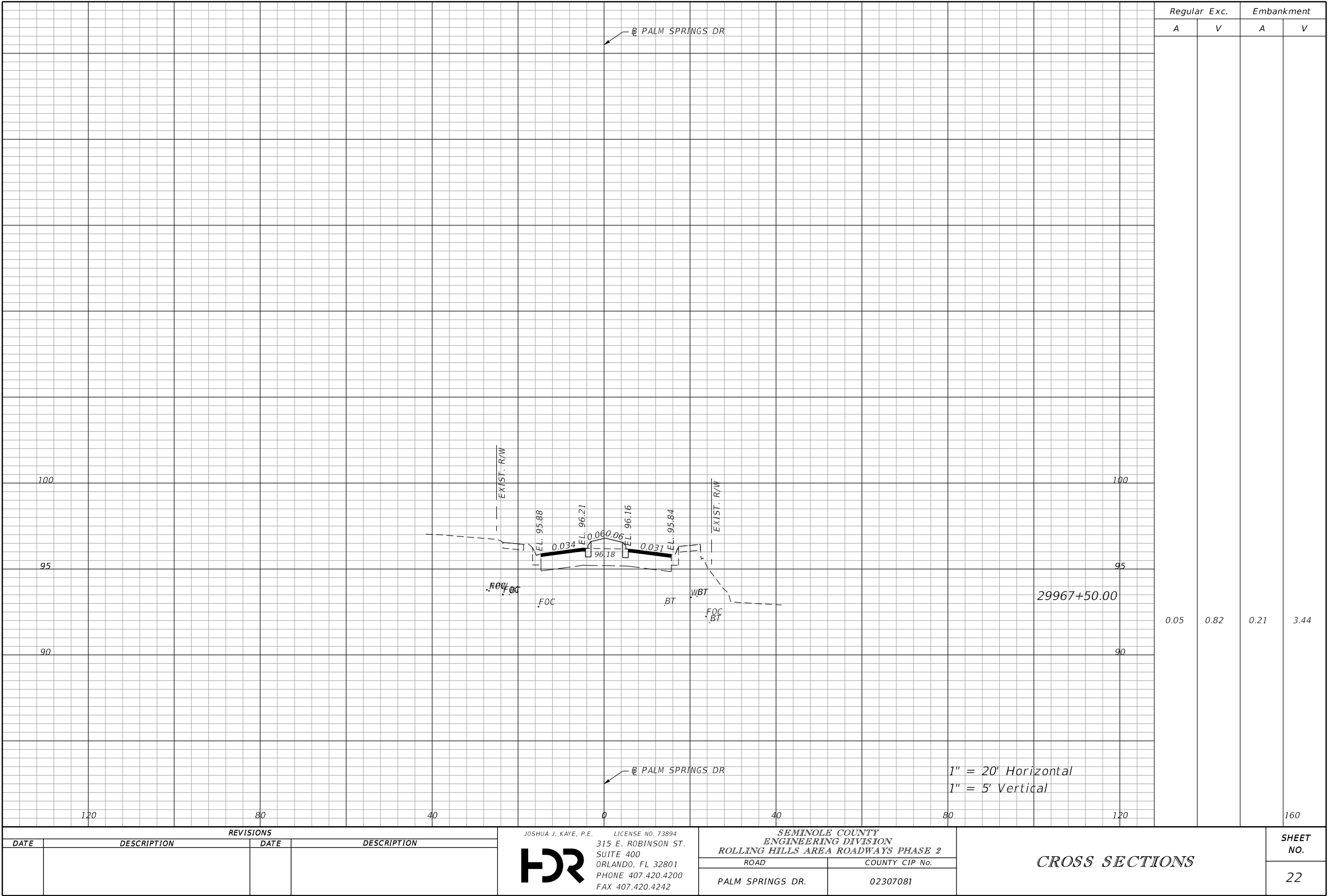


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JOSHUA J. KAYE, P.E.



LICENSE NO. 73894

315 E. ROBINSON ST.

SUITE 400

ORLANDO, FL 32801

PHONE 407.420.4200

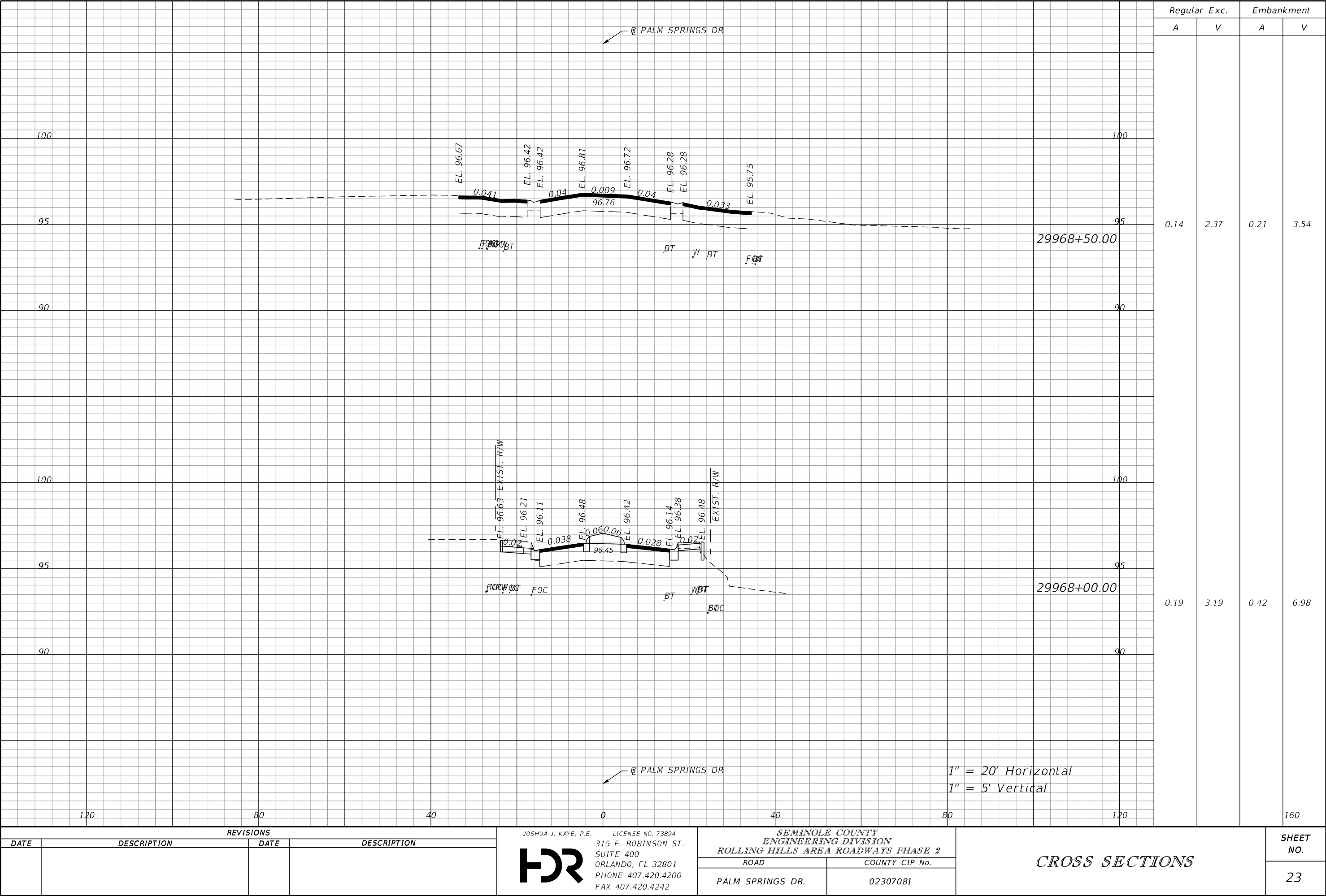
FAX 407.420.4242

SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2	
ROAD	COUNTY CIP No.
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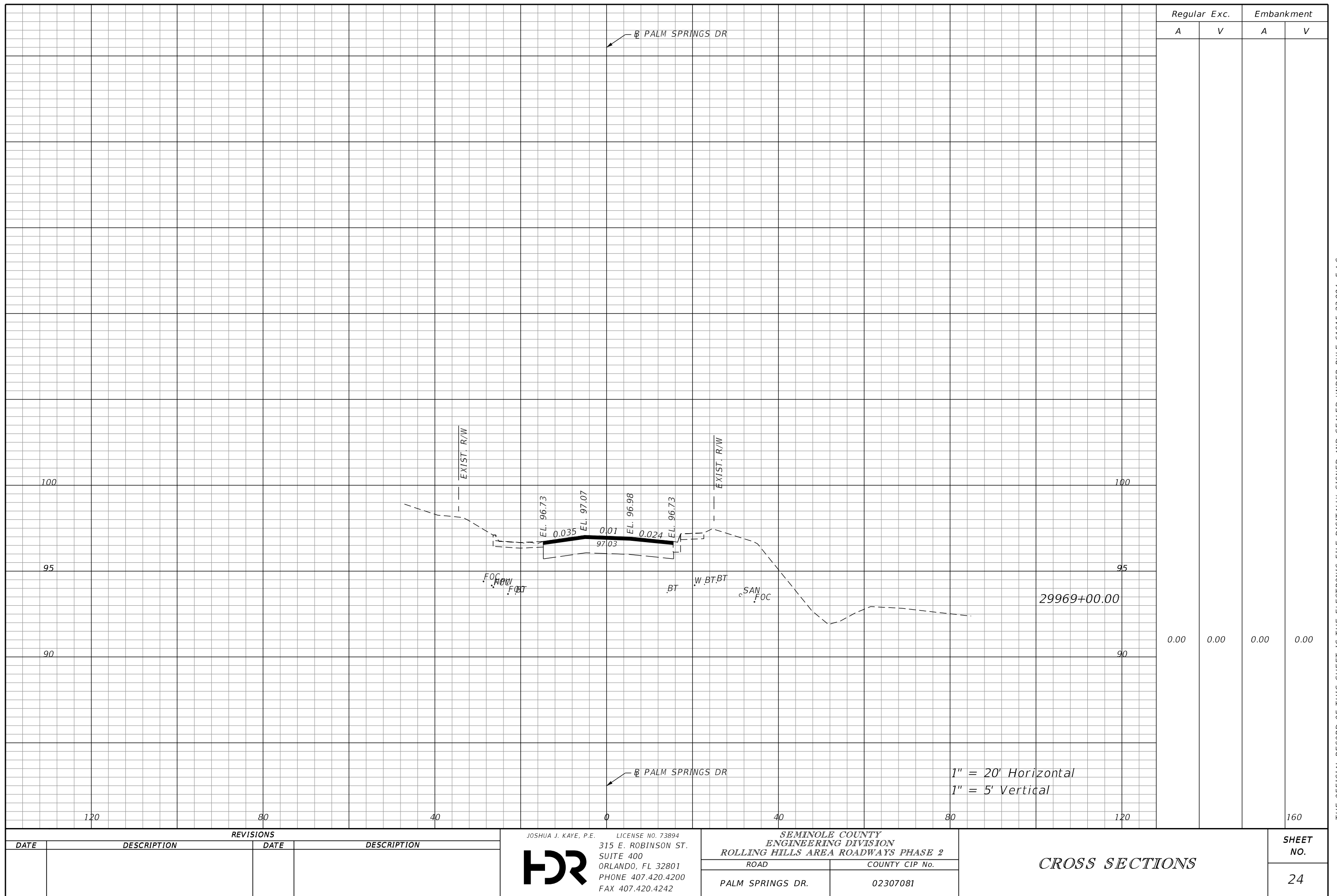
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SHEET NO.
22

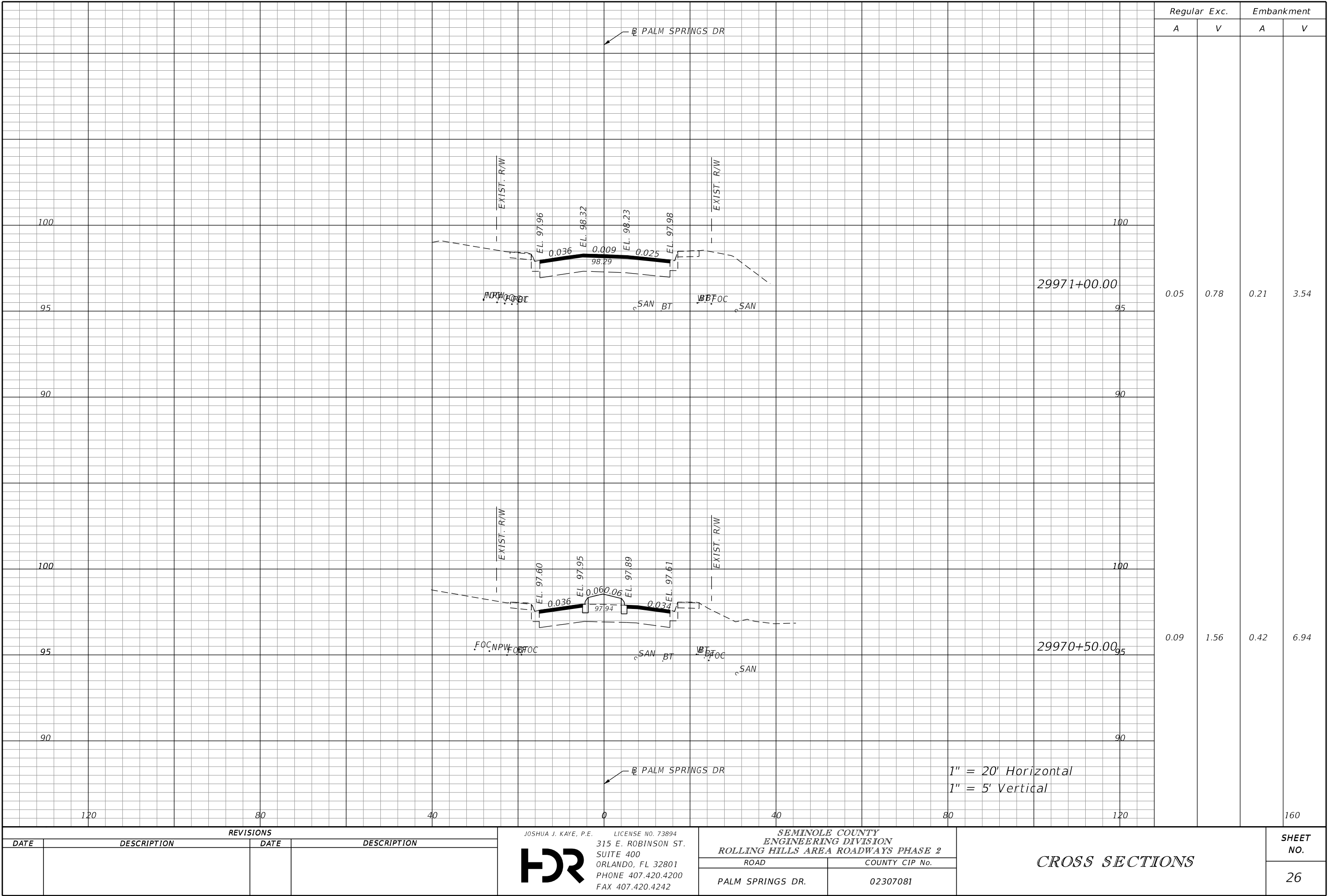
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SUITE 400

ORLANDO, FL 32801

PHONE 407.420.4200

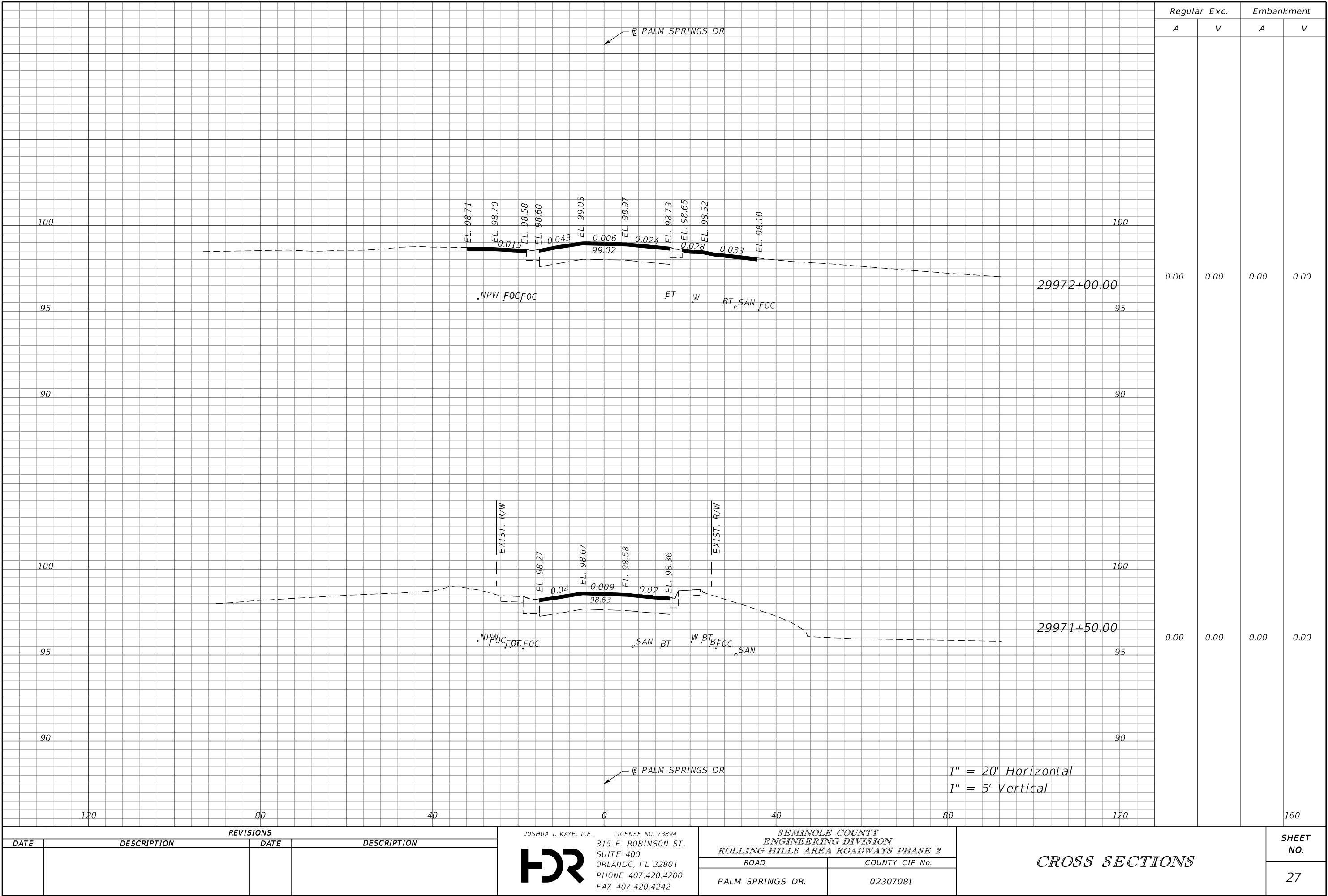
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SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2	
ROAD	COUNTY CIP No.
PALM SPRINGS DR.	02307081

CROSS SECTIONS	

SHEET NO.
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Regular Exc. Embankment

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0.00 0.00 0.00 0.00

0.00 0.00 0.00 0.00

1" = 20' Horizontal
1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOSHUA J. KAYE, P.E.



LICENSE NO. 73894

315 E. ROBINSON ST.

SUITE 400

ORLANDO, FL 32801

PHONE 407.420.4200

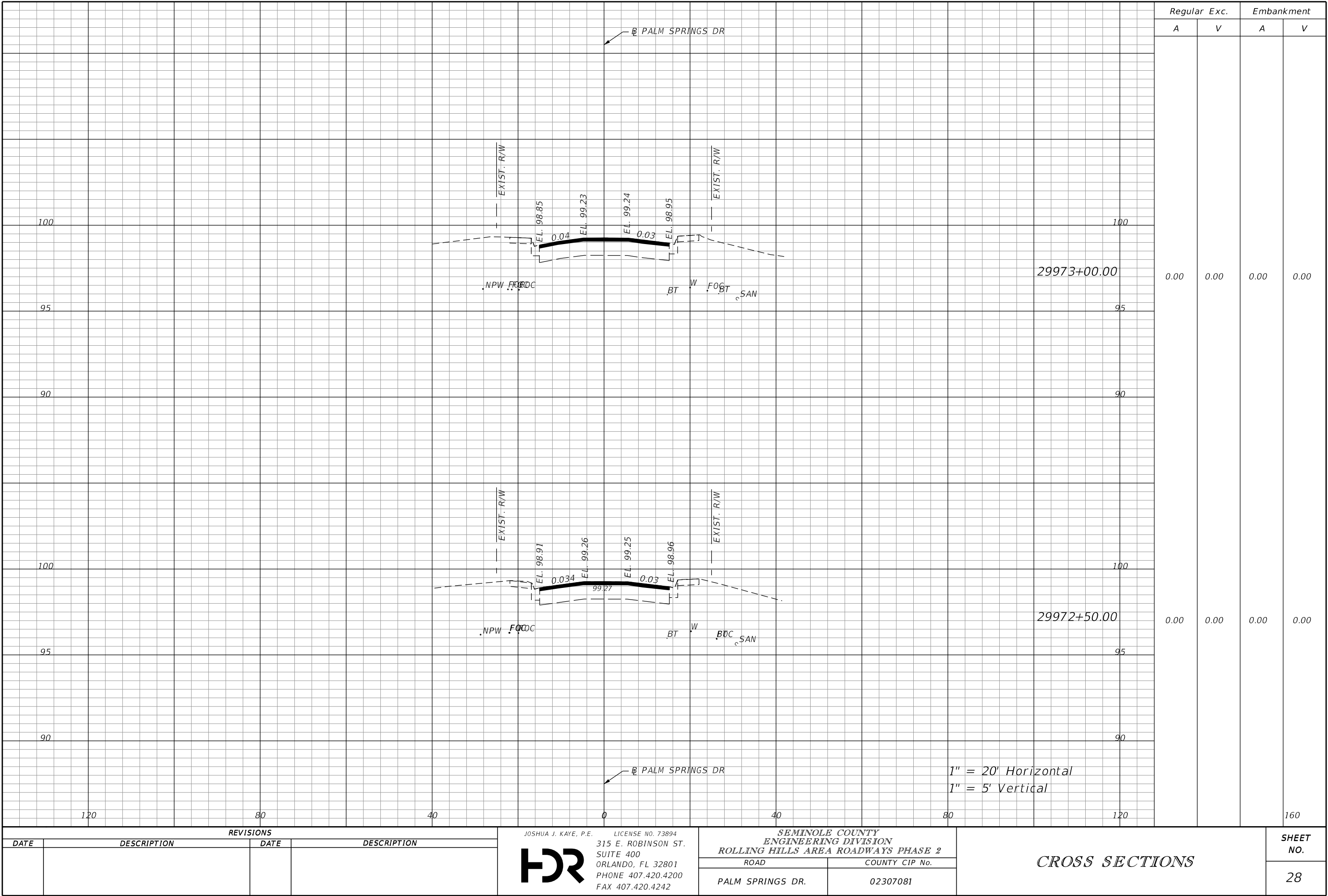
FAX 407.420.4242

SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2	
ROAD	COUNTY CIP No.
PALM SPRINGS DR.	02307081

CROSS SECTIONS	

SHEET NO.
27

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



Regular Exc. Embankment

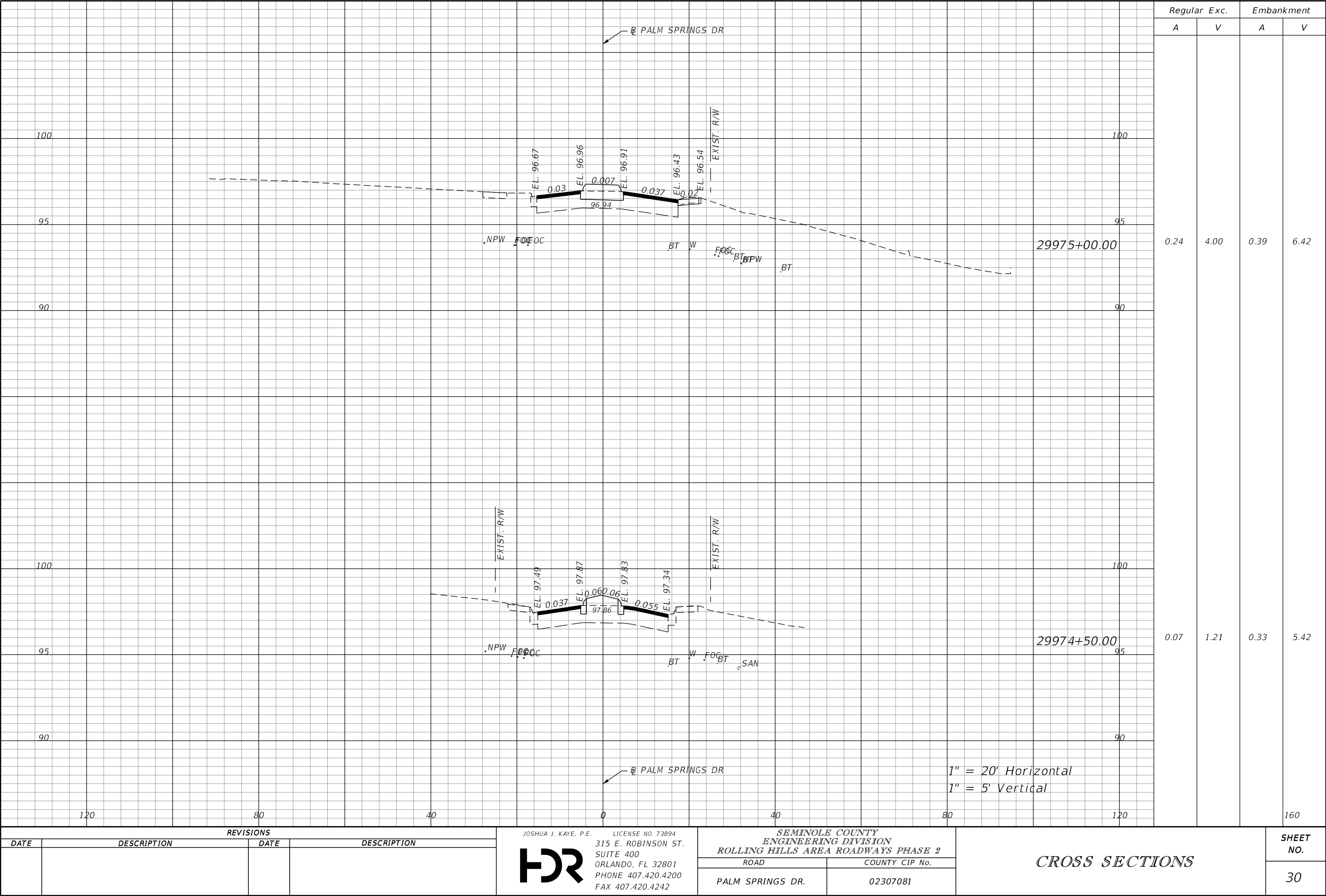
A V A V

0.00 0.00 0.00 0.00

0.00 0.00 0.00 0.00

SHEET NO. 28

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



Regular Exc. Embankment

A V A V

0.24 4.00 0.39 6.42

0.07 1.21 0.33 5.42

SHEET NO. 30

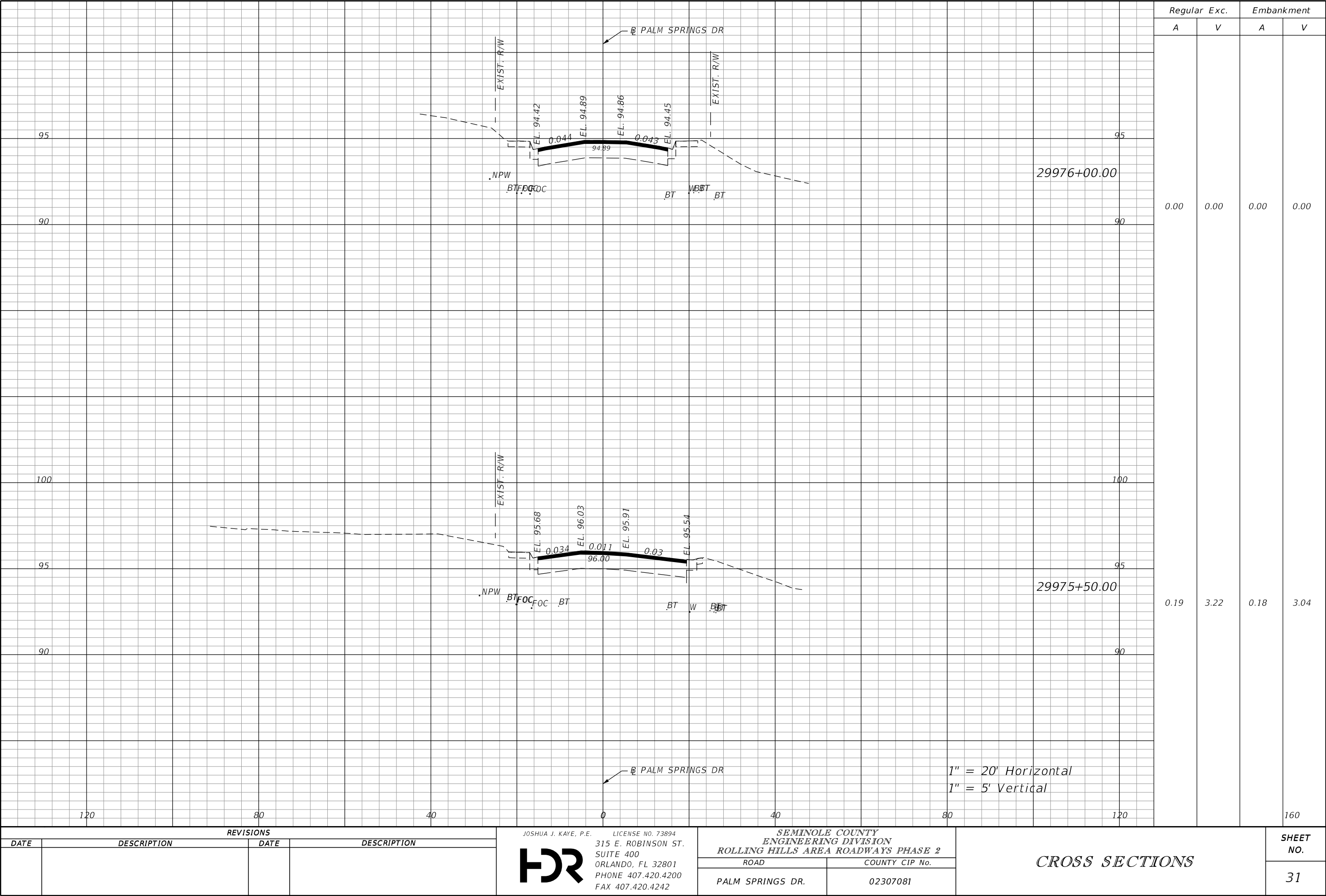
CROSS SECTIONS

JOSHUA J. KAYE, P.E. LICENSE NO. 73894
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 2
ROAD COUNTY CIP No.
PALM SPRINGS DR. 02307081

SUSERS SDATES \$TIMES \$FILES

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Regular Exc. Embankment

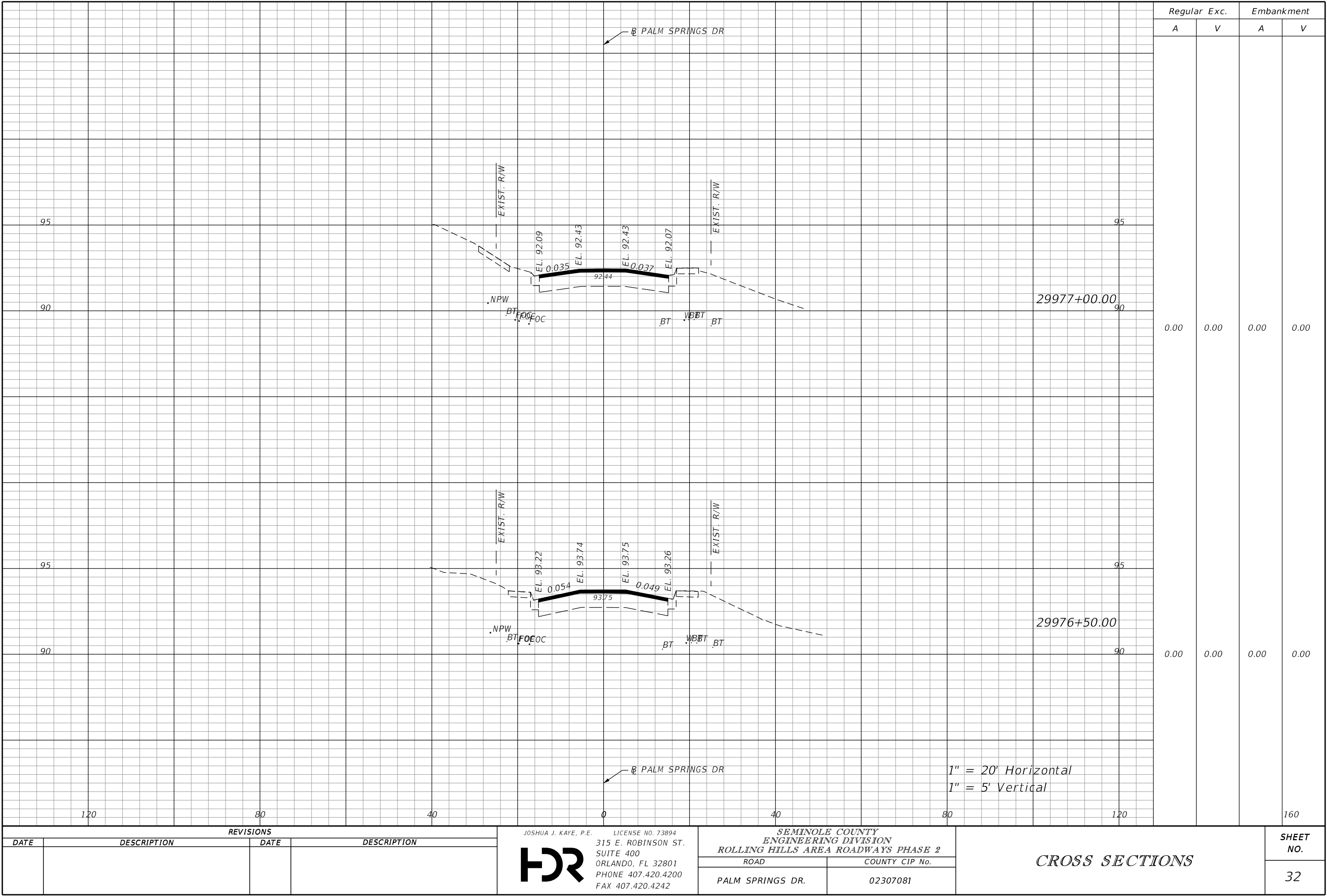
A V A V

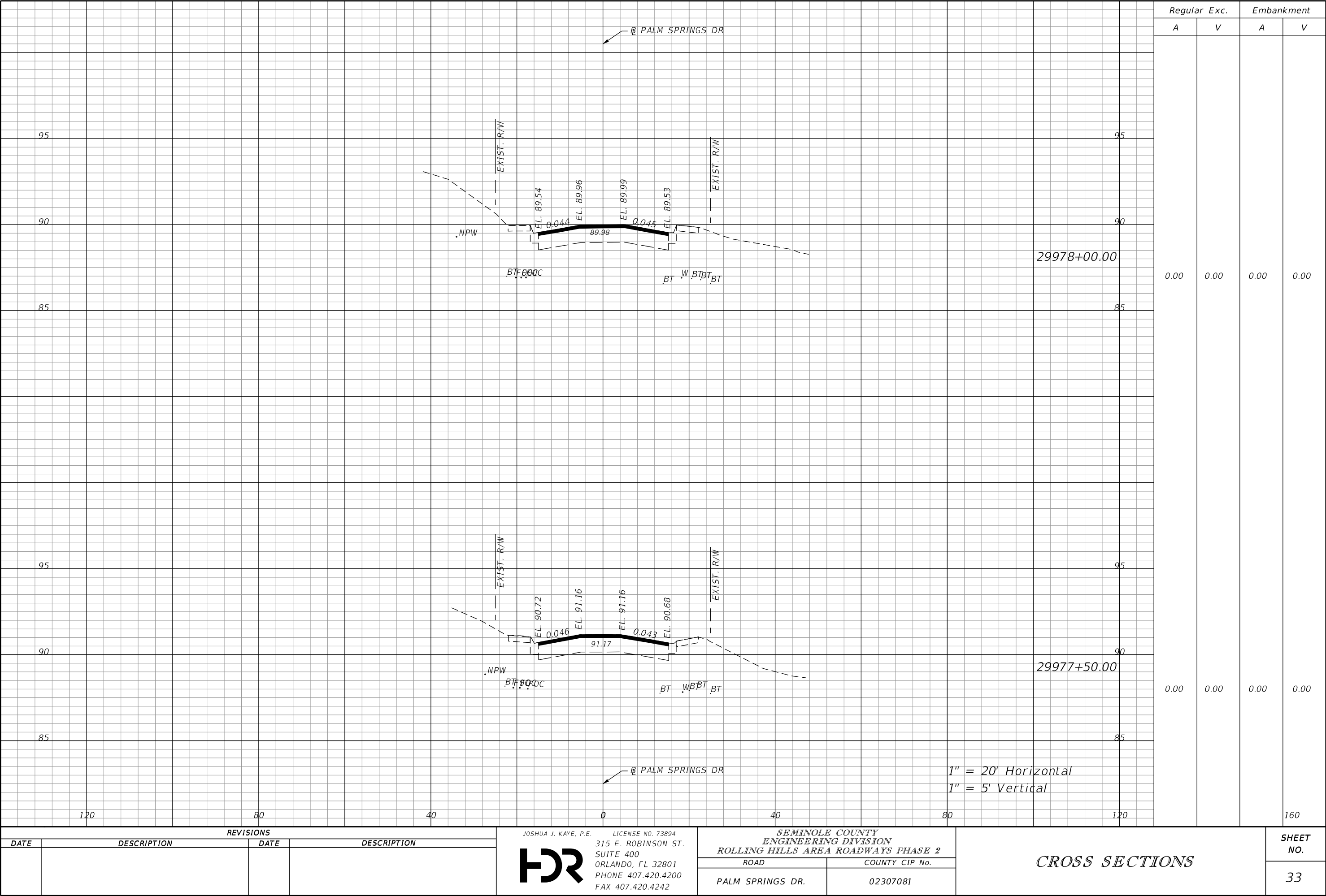
0.00 0.00 0.00 0.00

0.19 3.22 0.18 3.04

SHEET NO. 31

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





Regular Exc. Embankment

A V A V

0.00 0.00 0.00 0.00

0.00 0.00 0.00 0.00

SHEET NO.

33

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOSHUA J. KAYE, P.E.

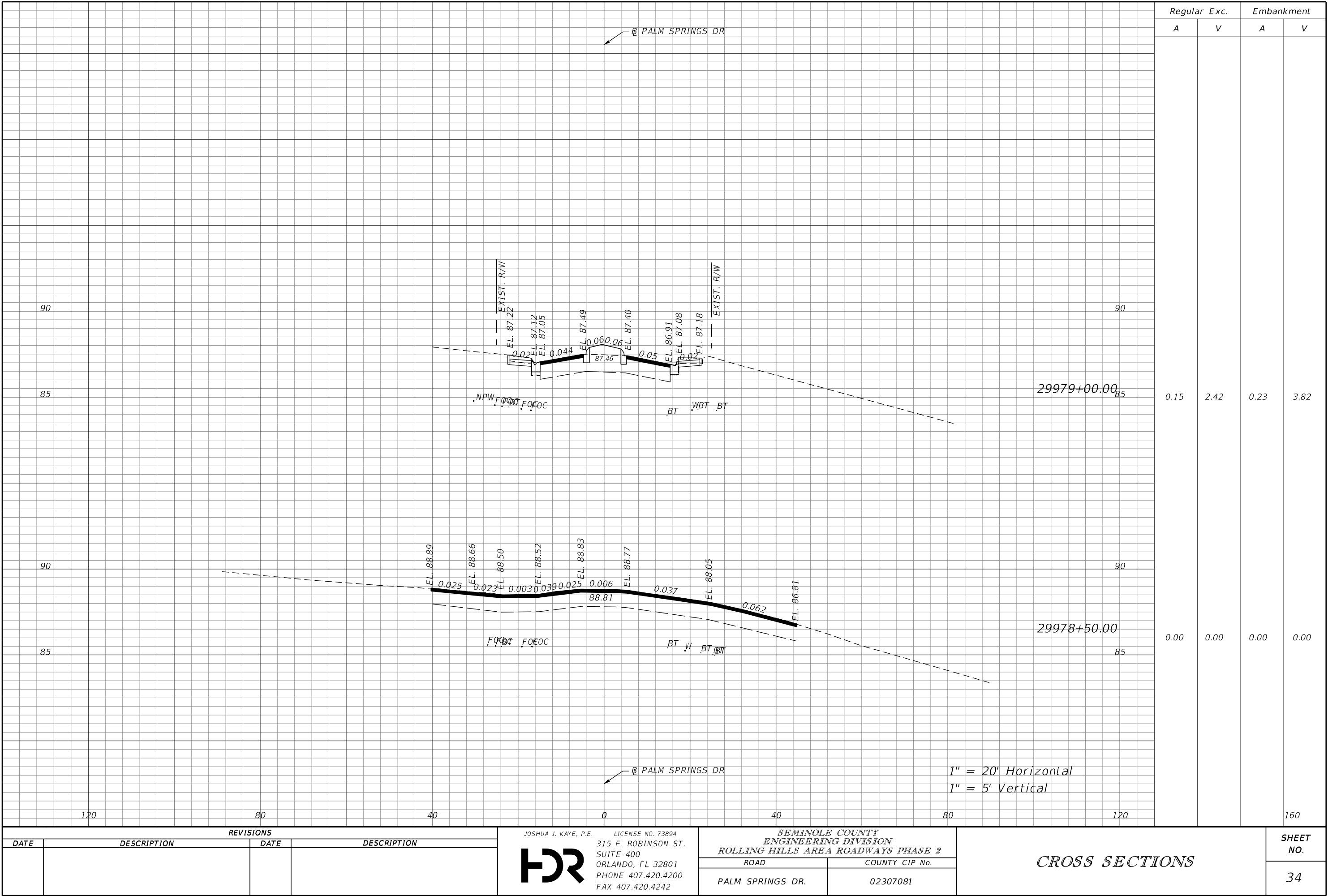


LICENSE NO. 73894

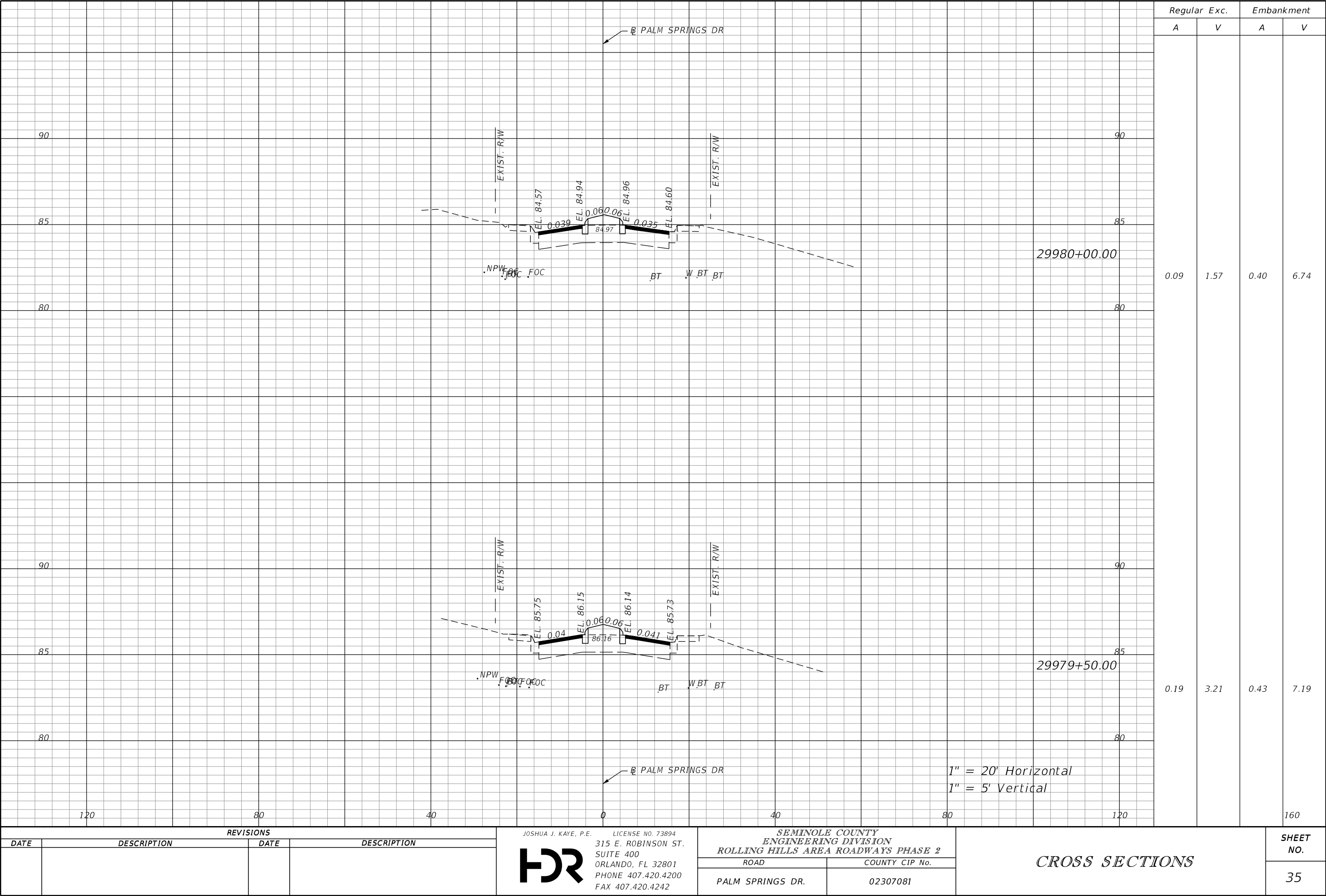
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2	
ROAD	COUNTY CIP No.
PALM SPRINGS DR.	02307081

CROSS SECTIONS	



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Regular		Exc.	Embankment	
A		V	A	V
0.09		1.57	0.40	6.74
0.19		3.21	0.43	7.19

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOSHUA J. KAYE, P.E.



LICENSE NO. 73894

315 E. ROBINSON ST.

SUITE 400

ORLANDO, FL 32801

PHONE 407.420.4200

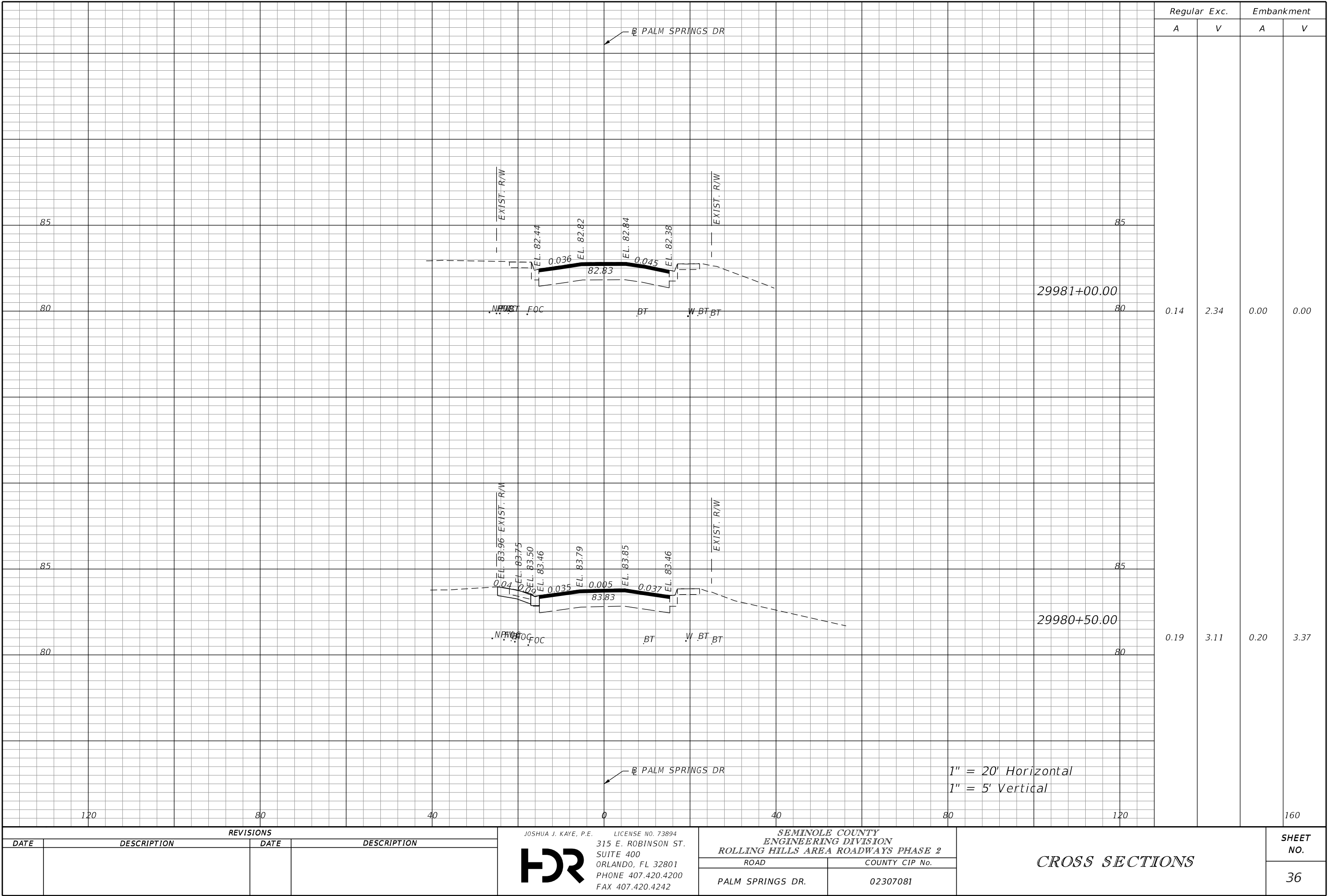
FAX 407.420.4242

SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2	
ROAD	COUNTY CIP No.
PALM SPRINGS DR.	02307081

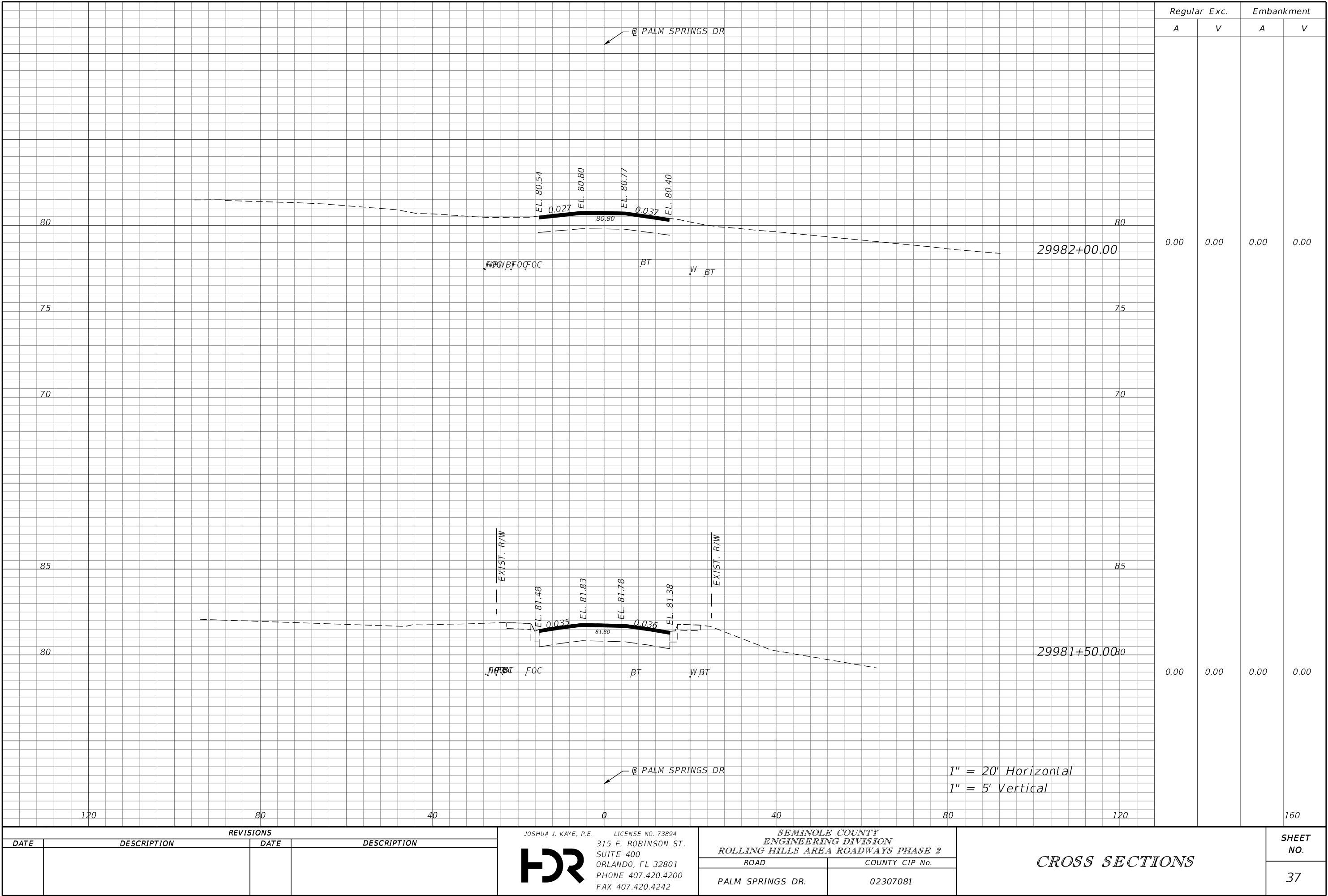
CROSS SECTIONS	
35	

SHEET NO.
35

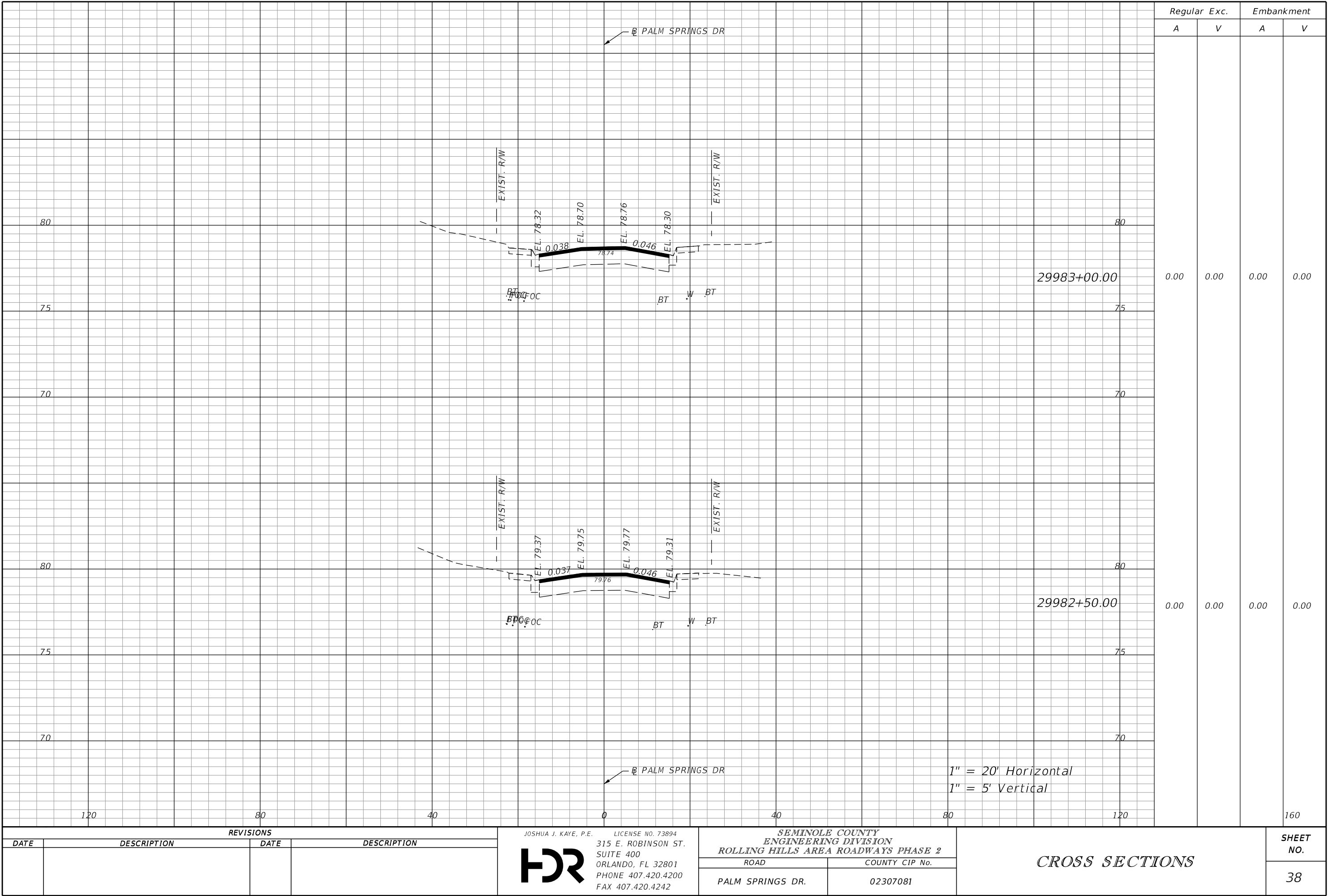
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



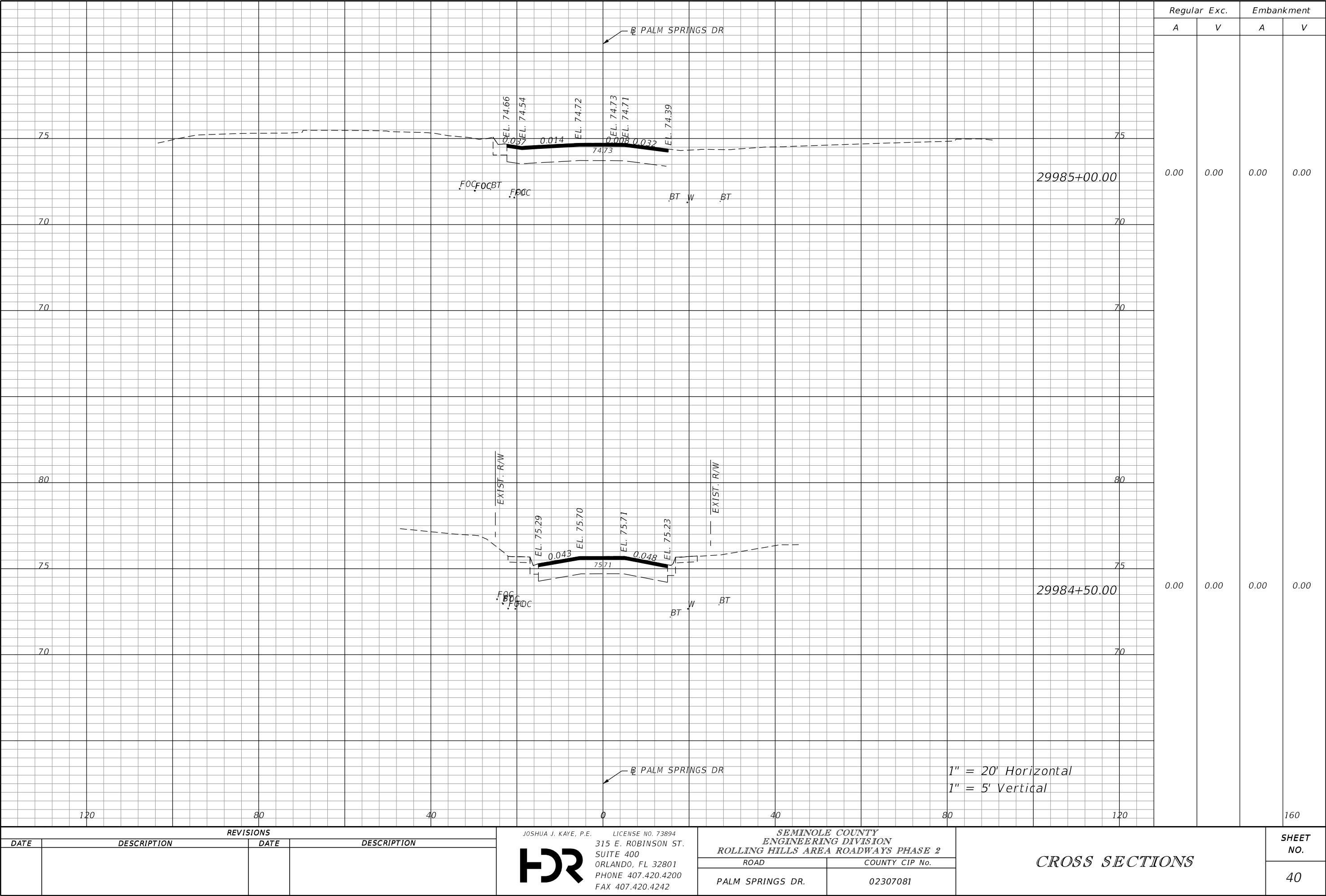
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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



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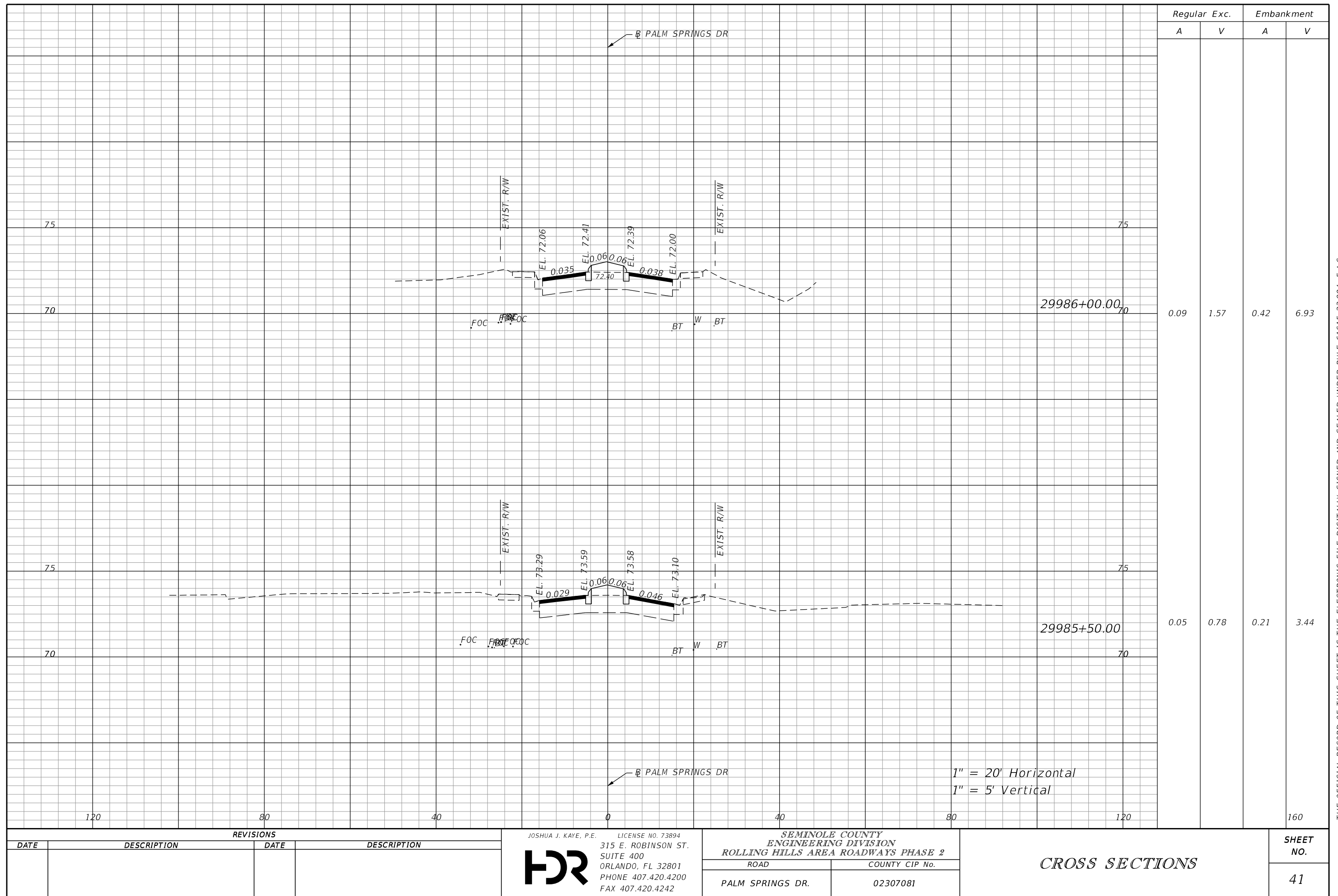
REVISIONS				JOSHUA J. KAYE, P.E. LICENSE NO. 73894 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242 HR	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		CROSS SECTIONS		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.			
					PALM SPRINGS DR.	02307081			40

\$USERS

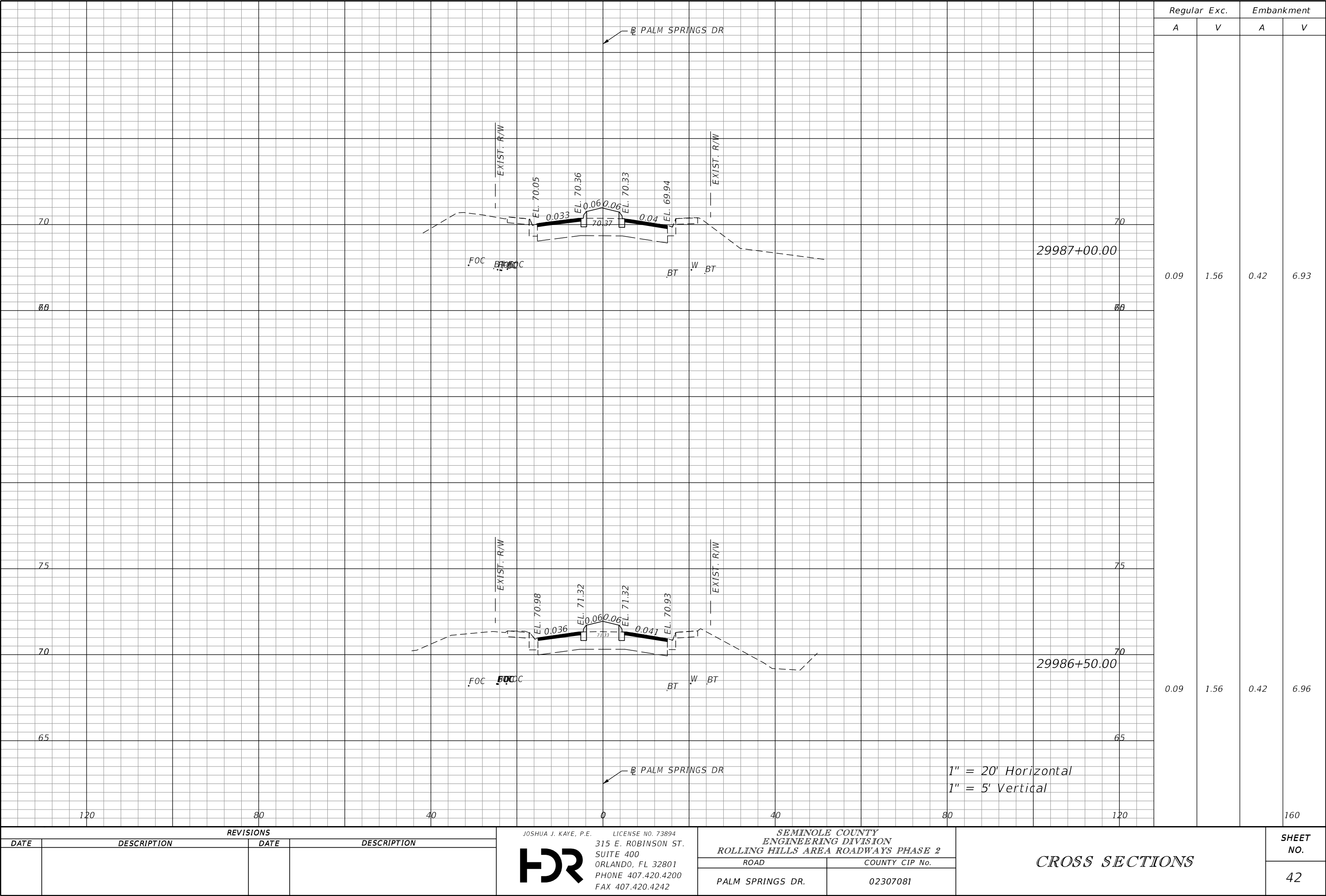
\$DATES

\$TIMES

\$FILES



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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOSHUA J. KAYE, P.E.



LICENSE NO. 73894

315 E. ROBINSON ST.

SUITE 400

ORLANDO, FL 32801

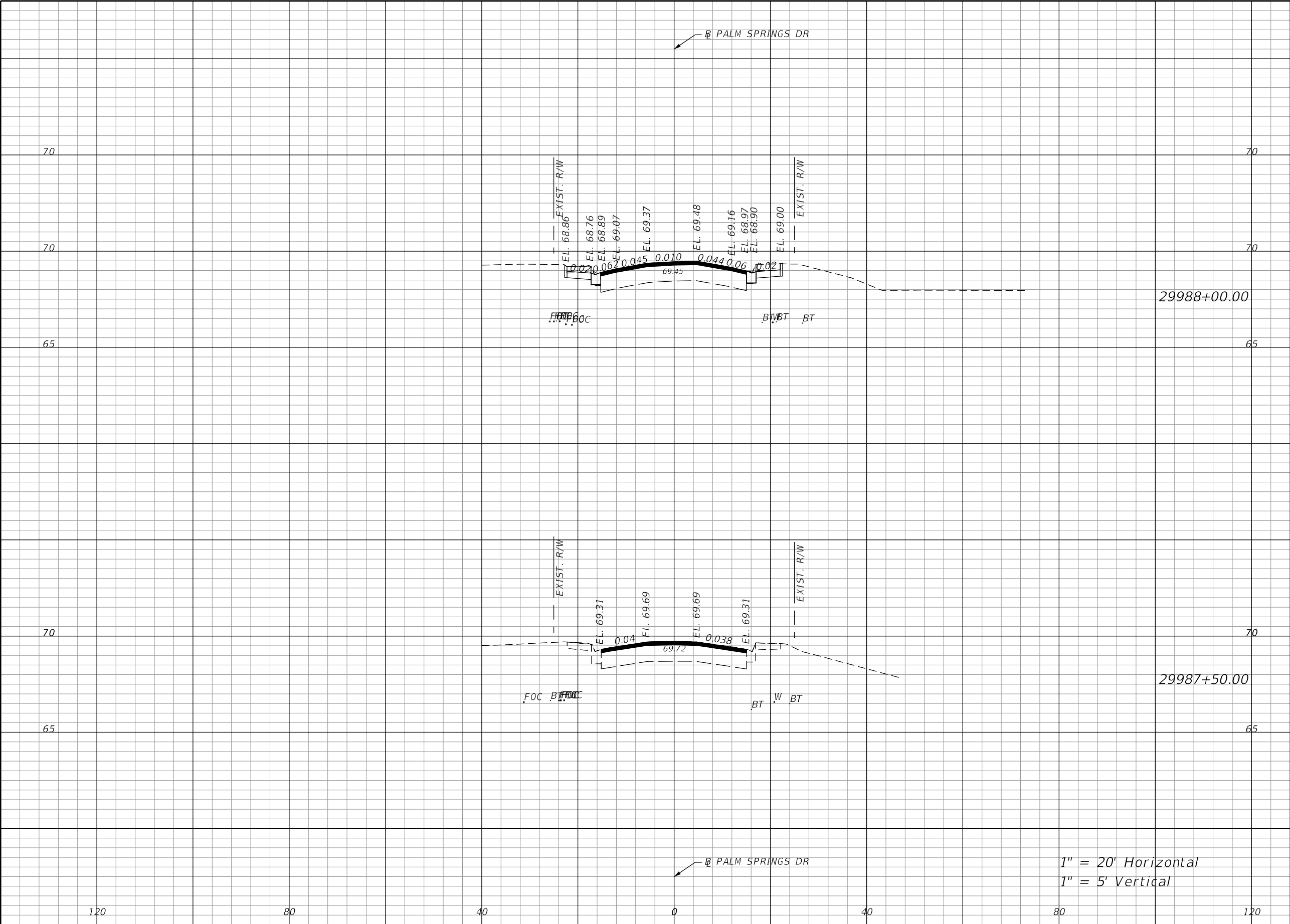
PHONE 407.420.4200

FAX 407.420.4242

SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2	
ROAD	COUNTY CIP No.
PALM SPRINGS DR.	02307081

CROSS SECTIONS	
42	

SHEET NO.
42



Regular		Exc.	Embankment	
A	V	A	V	
0.21	3.57	0.01	0.09	
0.05	0.78	0.21	3.46	

DATE

DESCRIPTION

DATE

DESCRIPTION

JOSHUA J. KAYE, P.E.



315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 2

ROAD

COUNTY CIP No.

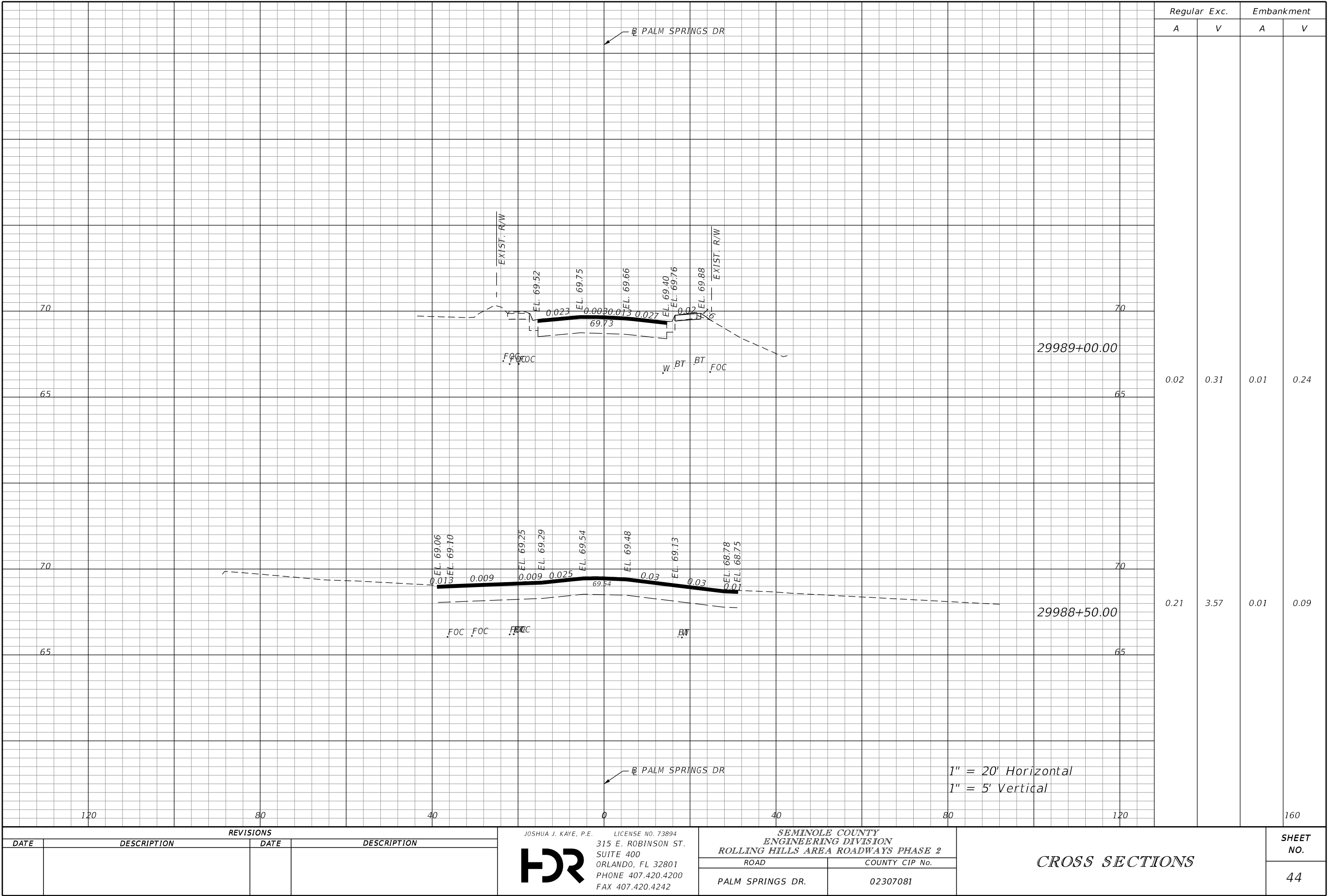
PALM SPRINGS DR.

02307081

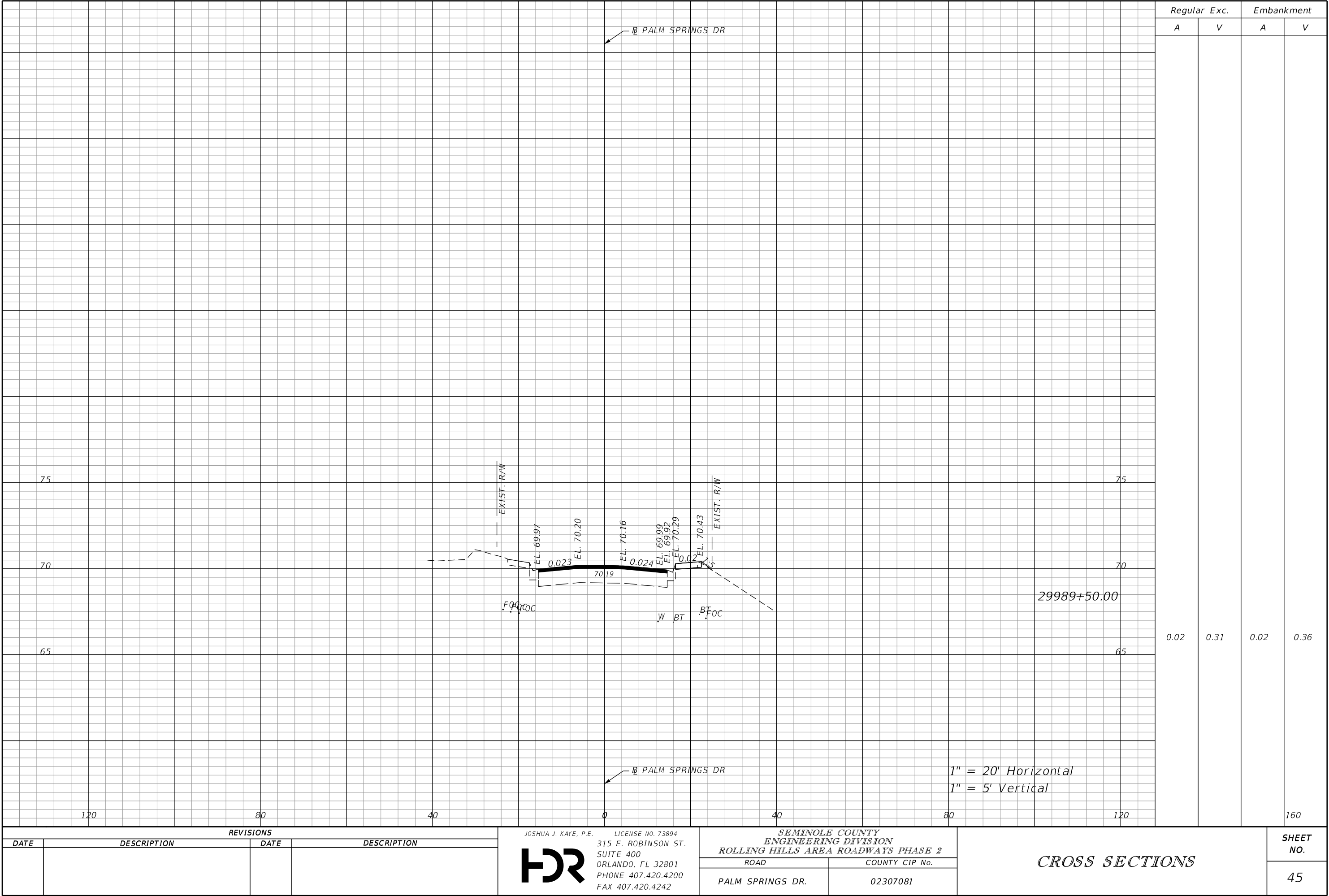
CROSS SECTIONS

SHEET NO.
43

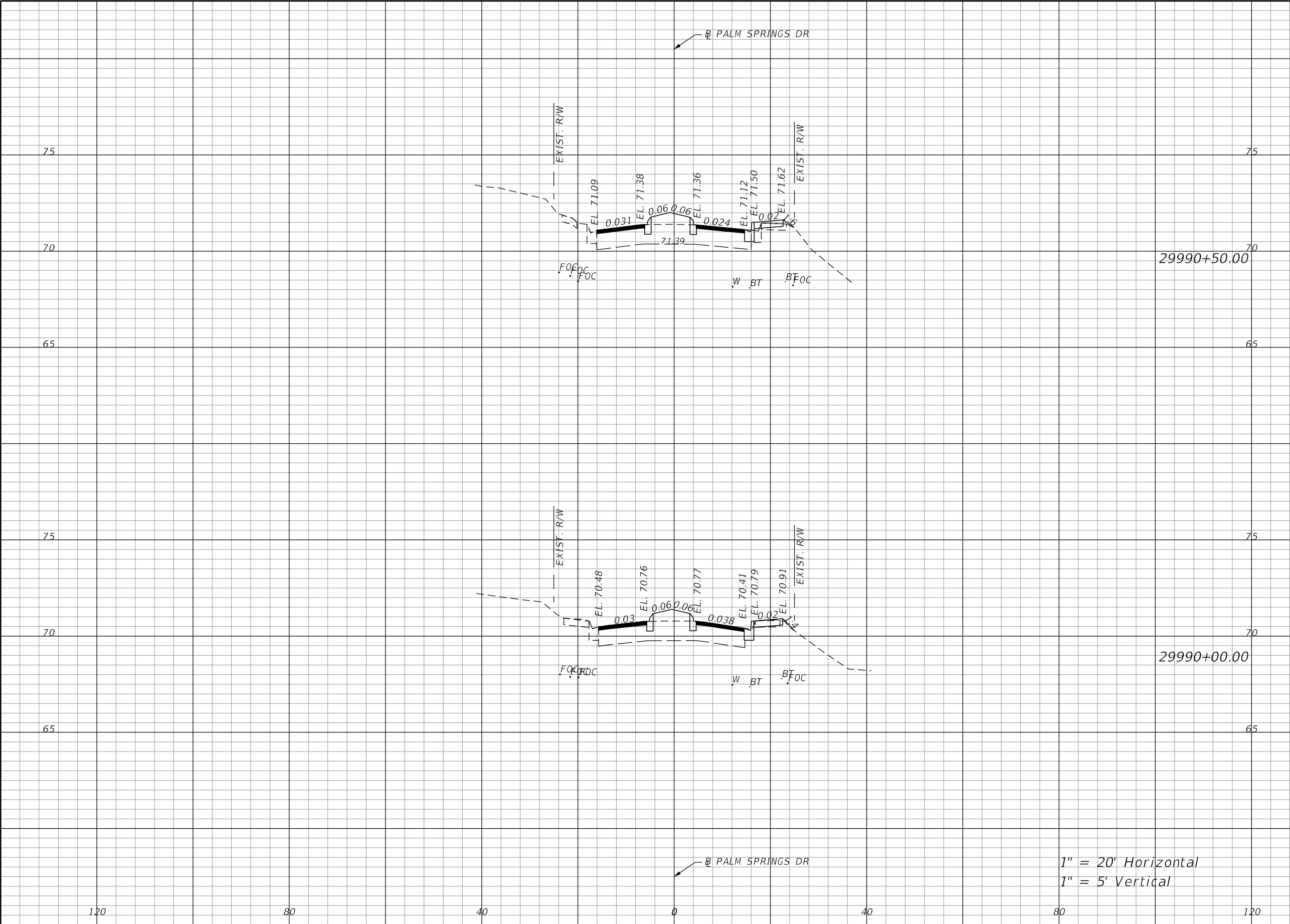
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



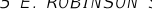
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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



Regular		Exc.	Embankment	
A	V	A	V	
0.09	1.55	0.57	9.44	
0.05	0.77	0.24	3.96	

REVISIONS				JOSHUA J. KAYE, P.E. LICENSE NO. 73894 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242 	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					PALM SPRINGS DR.	02307081		46

JOSHUA J. KAYE, P.E. LICENSE NO. 73894
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242



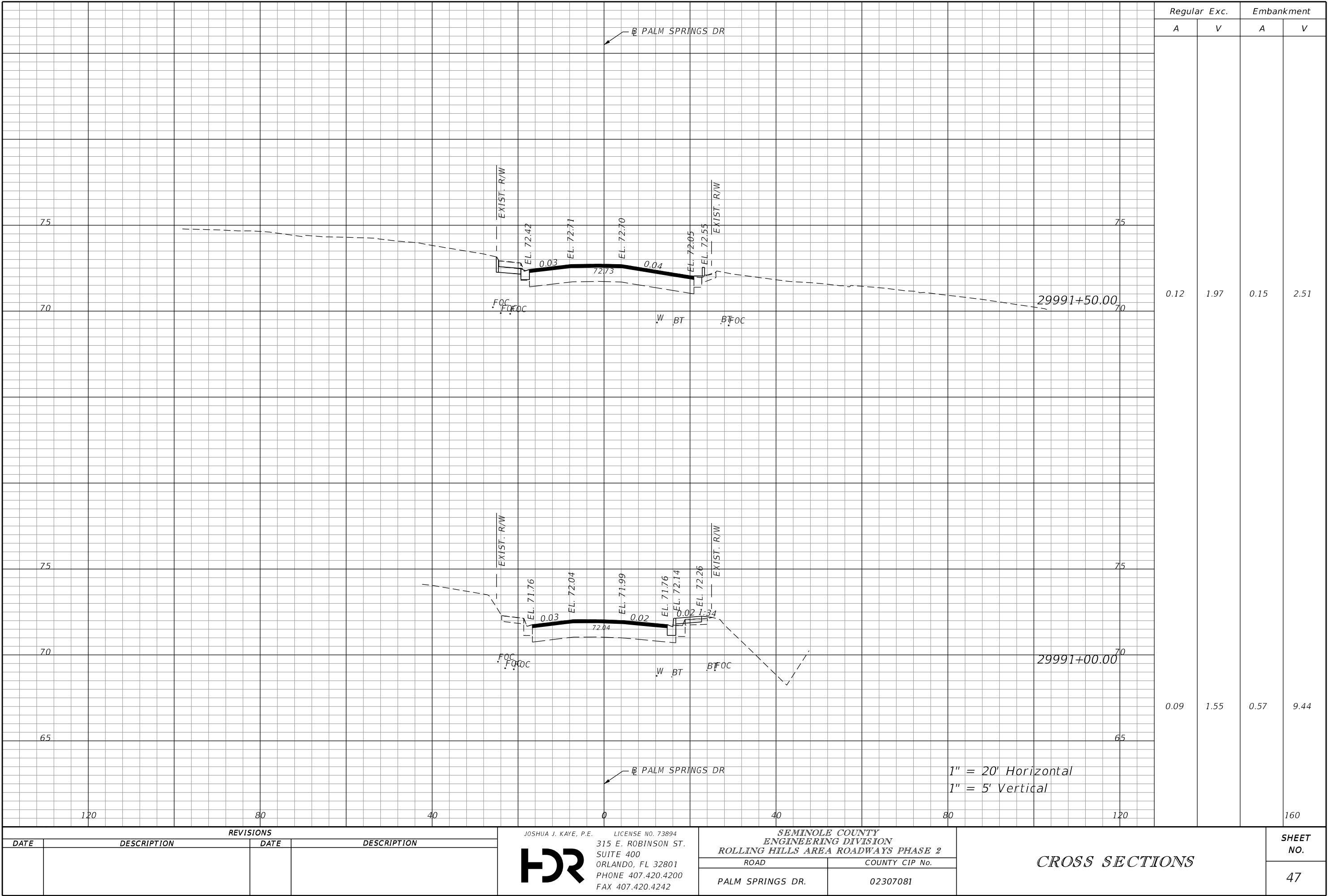
SUSERS

SDATES

STIMES

SFILES

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Regular Exc. Embankment

A V A V

0.12 1.97 0.15 2.51

0.09 1.55 0.57 9.44

SHEET NO.

47

CROSS SECTIONS

JOSHUA J. KAYE, P.E. LICENSE NO. 73894
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242



SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 2
ROAD COUNTY CIP No.
PALM SPRINGS DR. 02307081

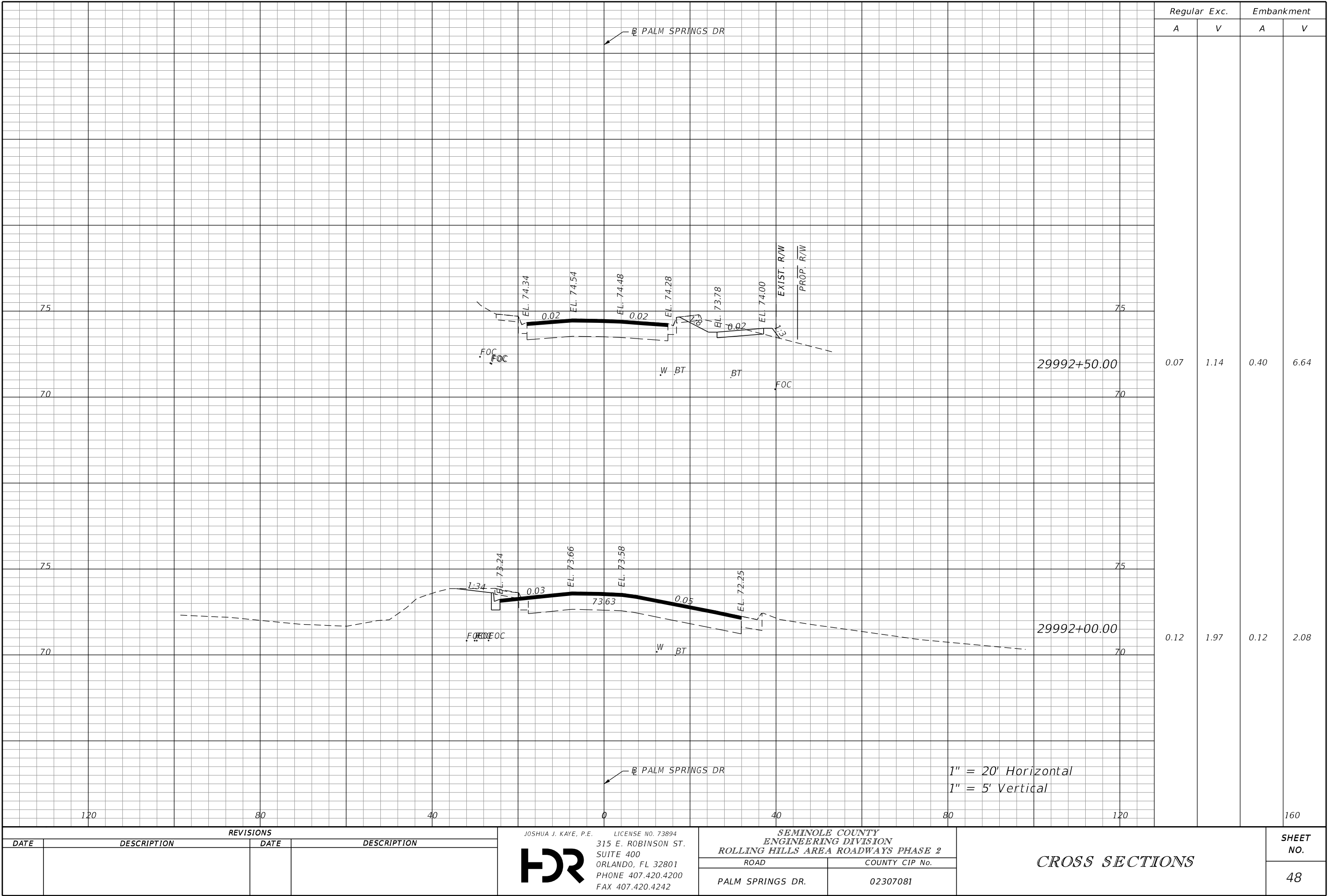
\$USERS

\$DATES

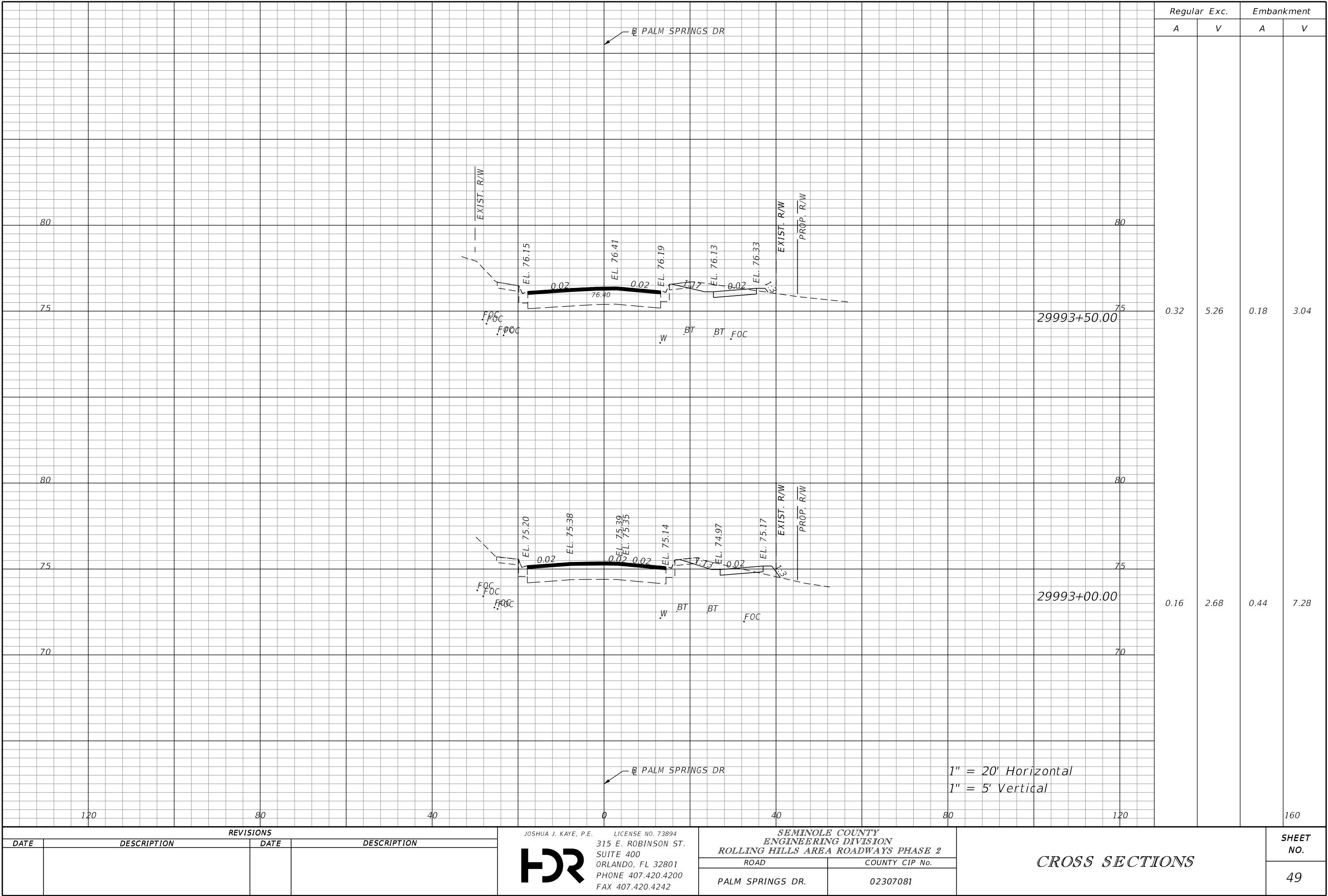
\$TIMES

\$FILES

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



Regular Exc. Embankment

A V A V

0.32 5.26 0.18 3.04

0.16 2.68 0.44 7.28

SHEET NO.

49

CROSS SECTIONS

SEMINOLE COUNTY
ENGINEERING DIVISION
ROLLING HILLS AREA ROADWAYS PHASE 2

ROAD COUNTY CIP No.

PALM SPRINGS DR. 02307081

JOSHUA J. KAYE, P.E. LICENSE NO. 73894
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242



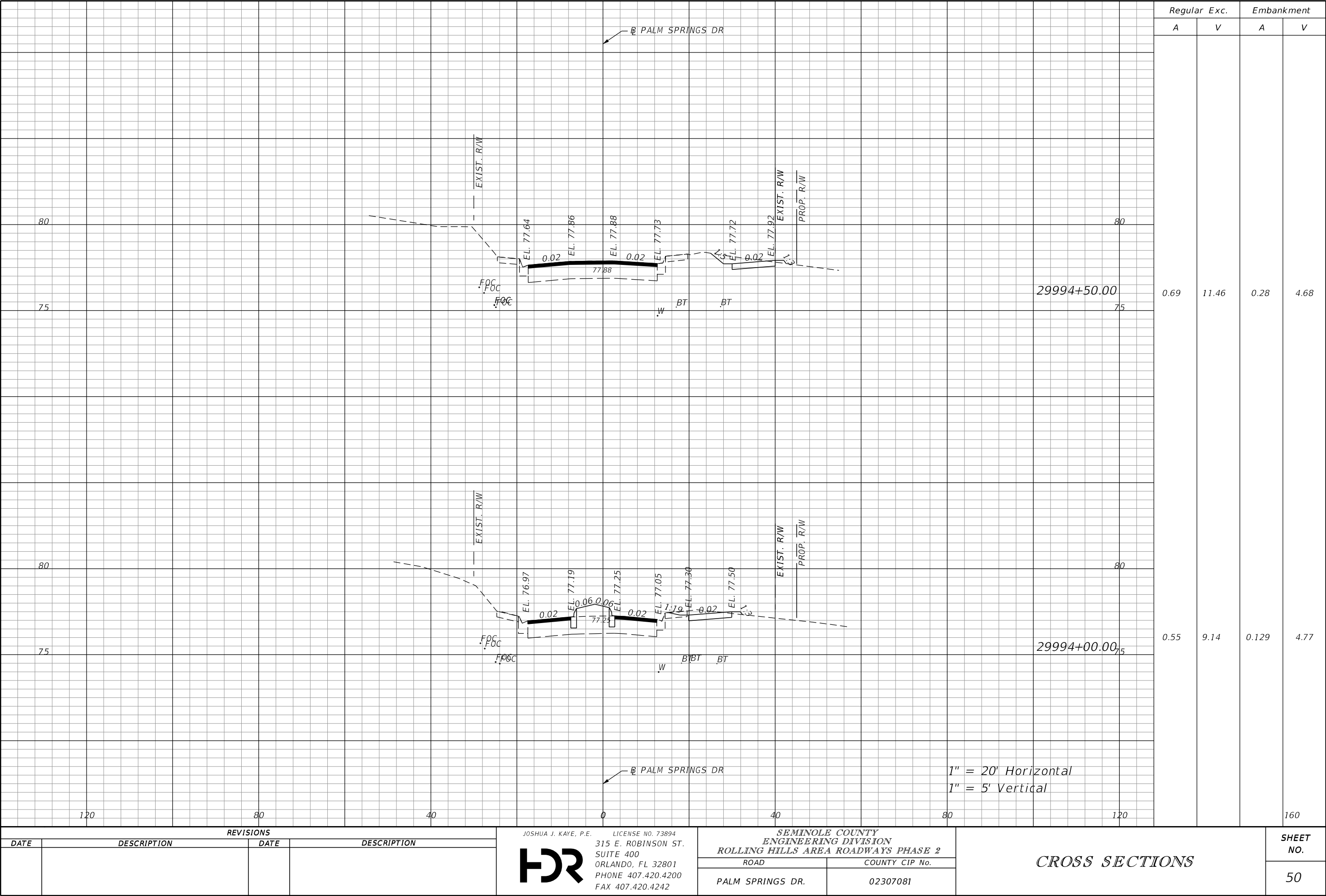
SUSERS

SDATES

STIMES

SFILES

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



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOSHUA J. KAYE, P.E.



LICENSE NO. 73894

315 E. ROBINSON ST.

SUITE 400

ORLANDO, FL 32801

PHONE 407.420.4200

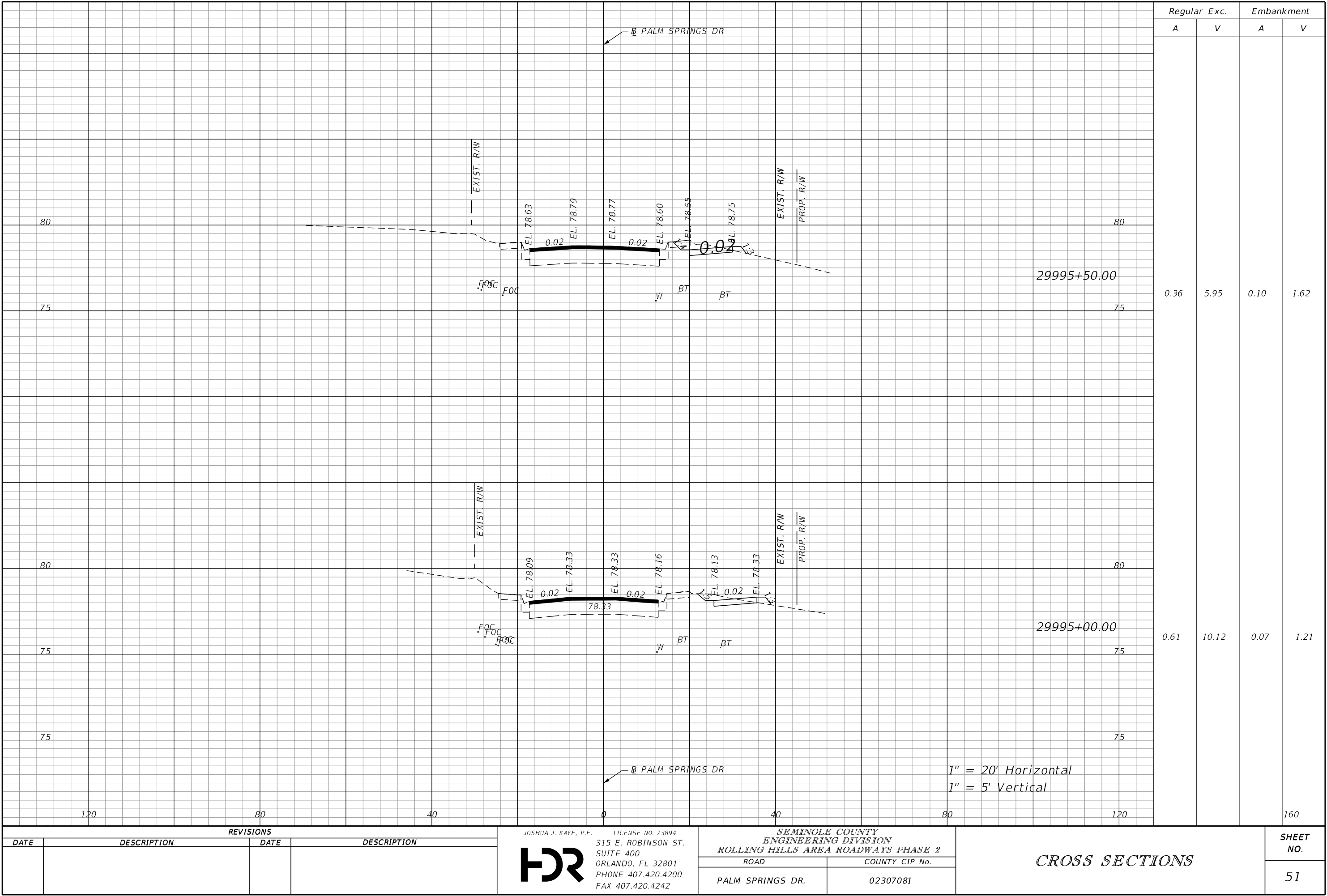
FAX 407.420.4242

SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2	
ROAD	COUNTY CIP No.
PALM SPRINGS DR.	02307081

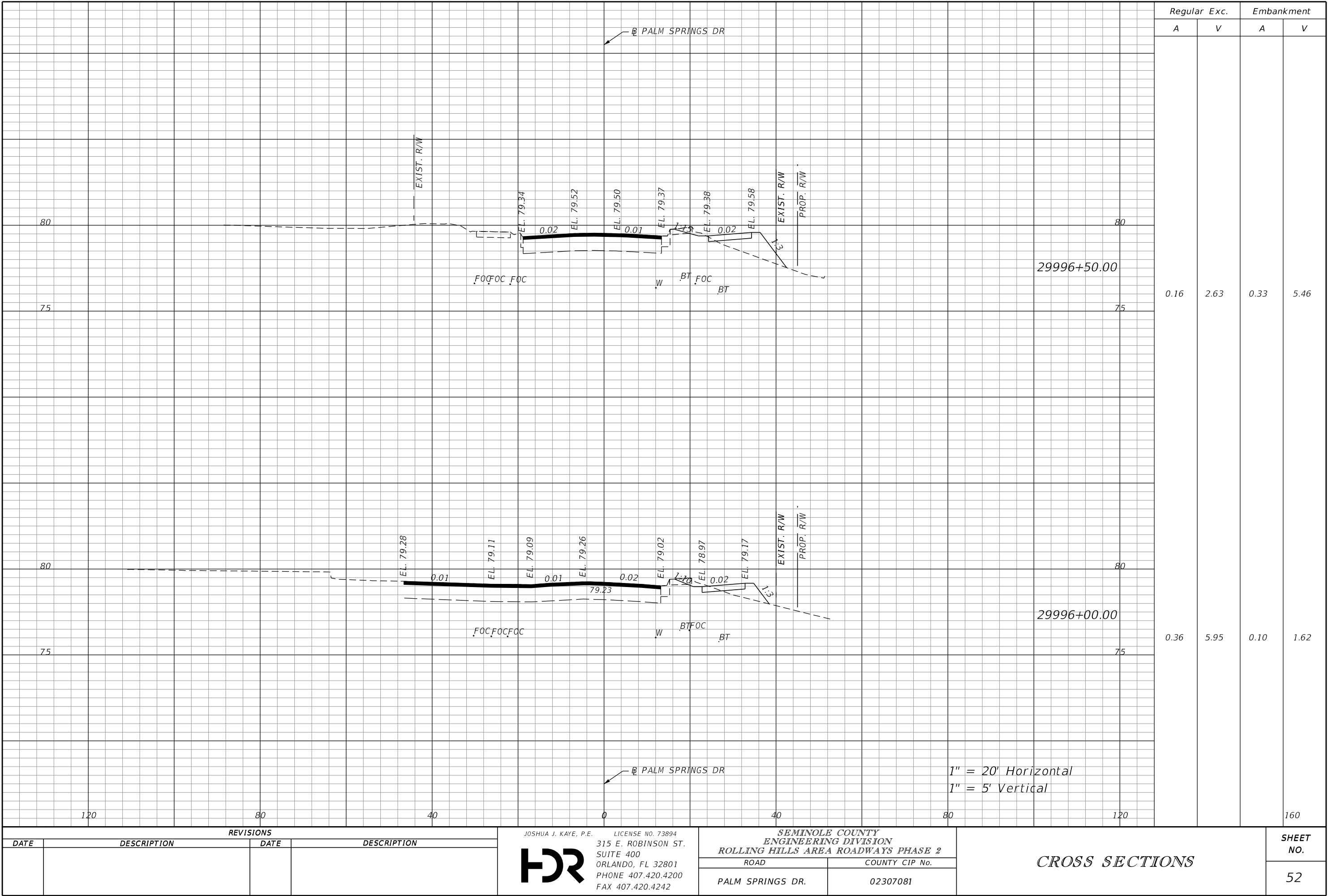
CROSS SECTIONS	

SHEET NO.
50

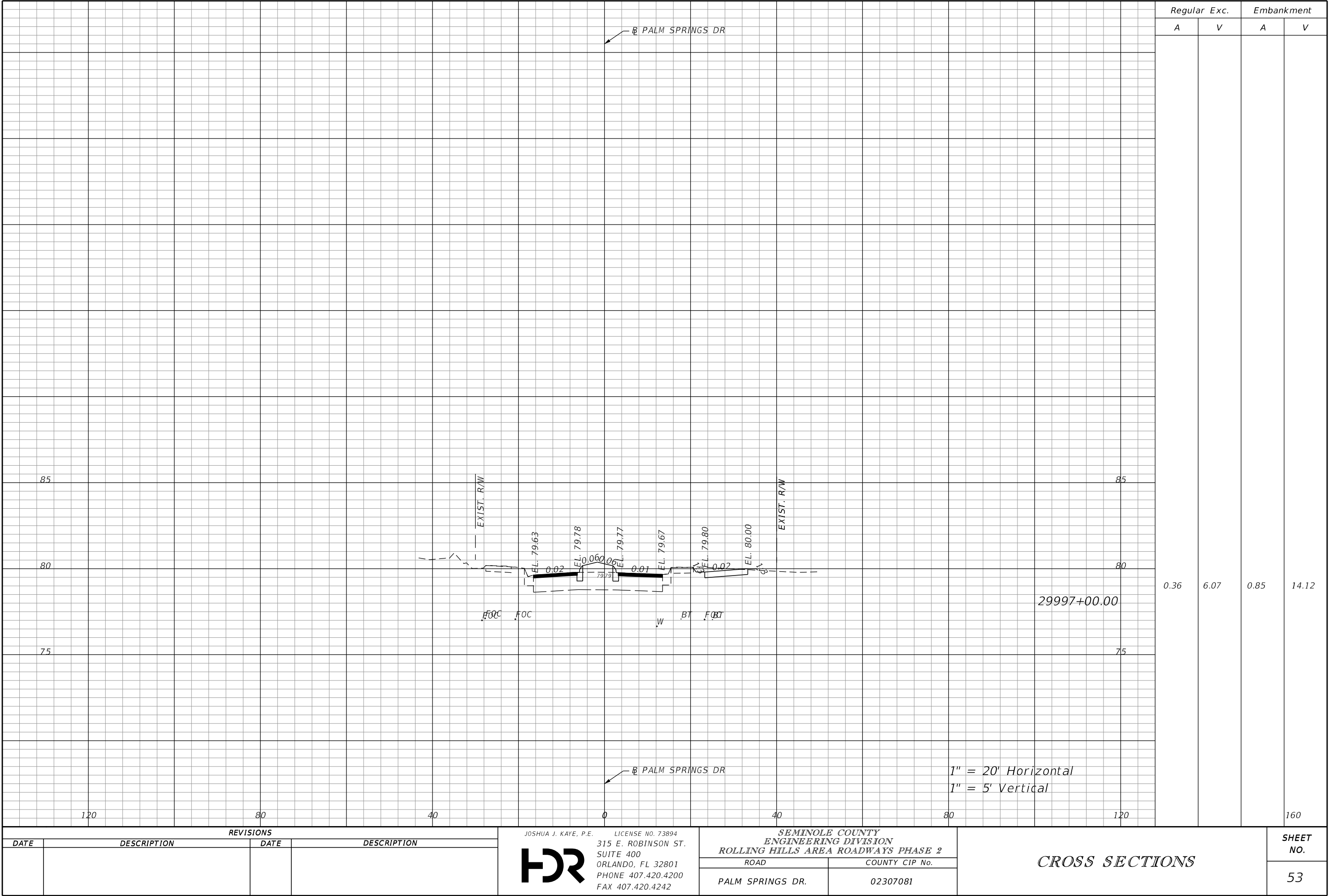
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



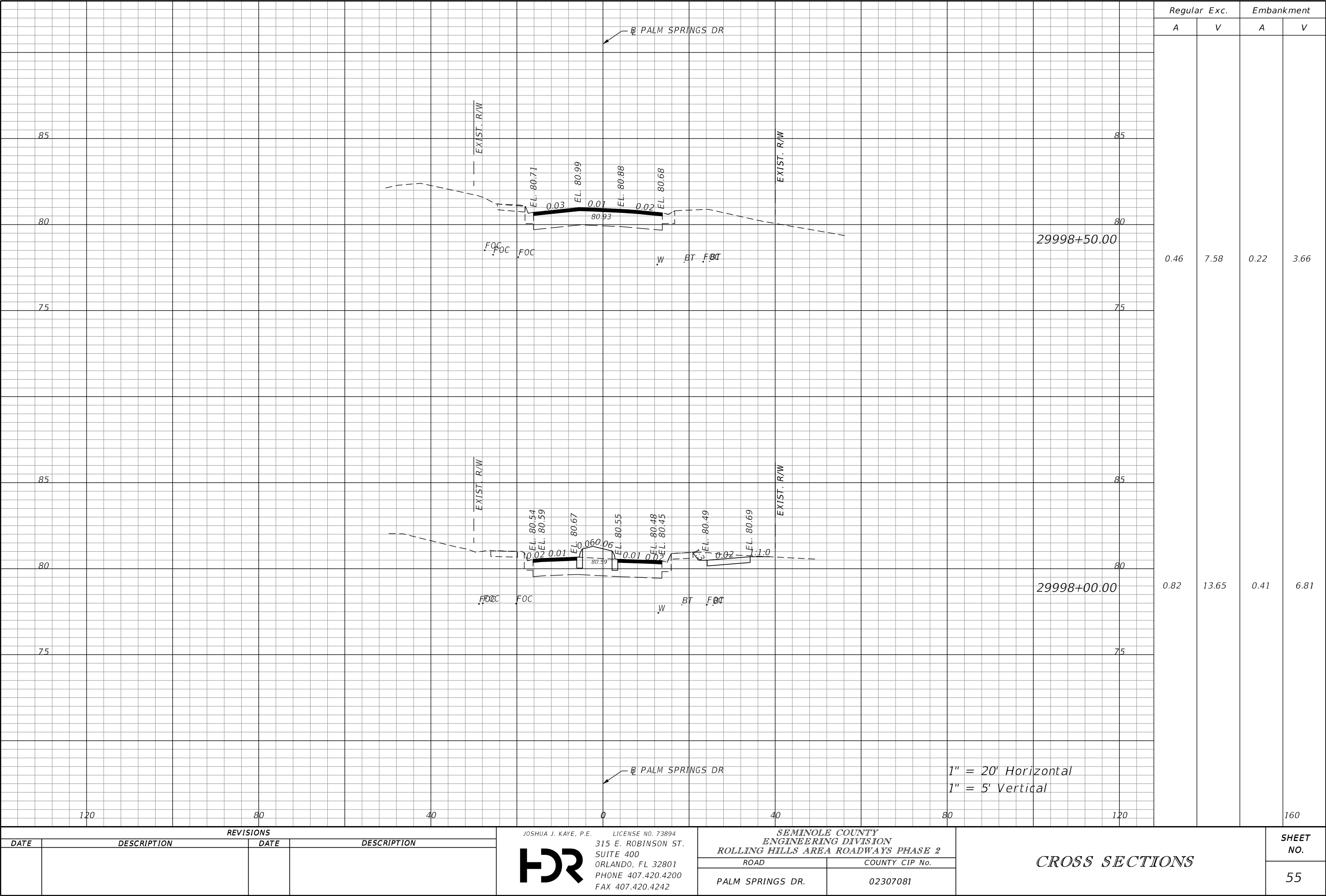
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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Regular Exc. Embankment

A V A V

0.46 7.58 0.22 3.66

0.82 13.65 0.41 6.81

SHEET NO. 55

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

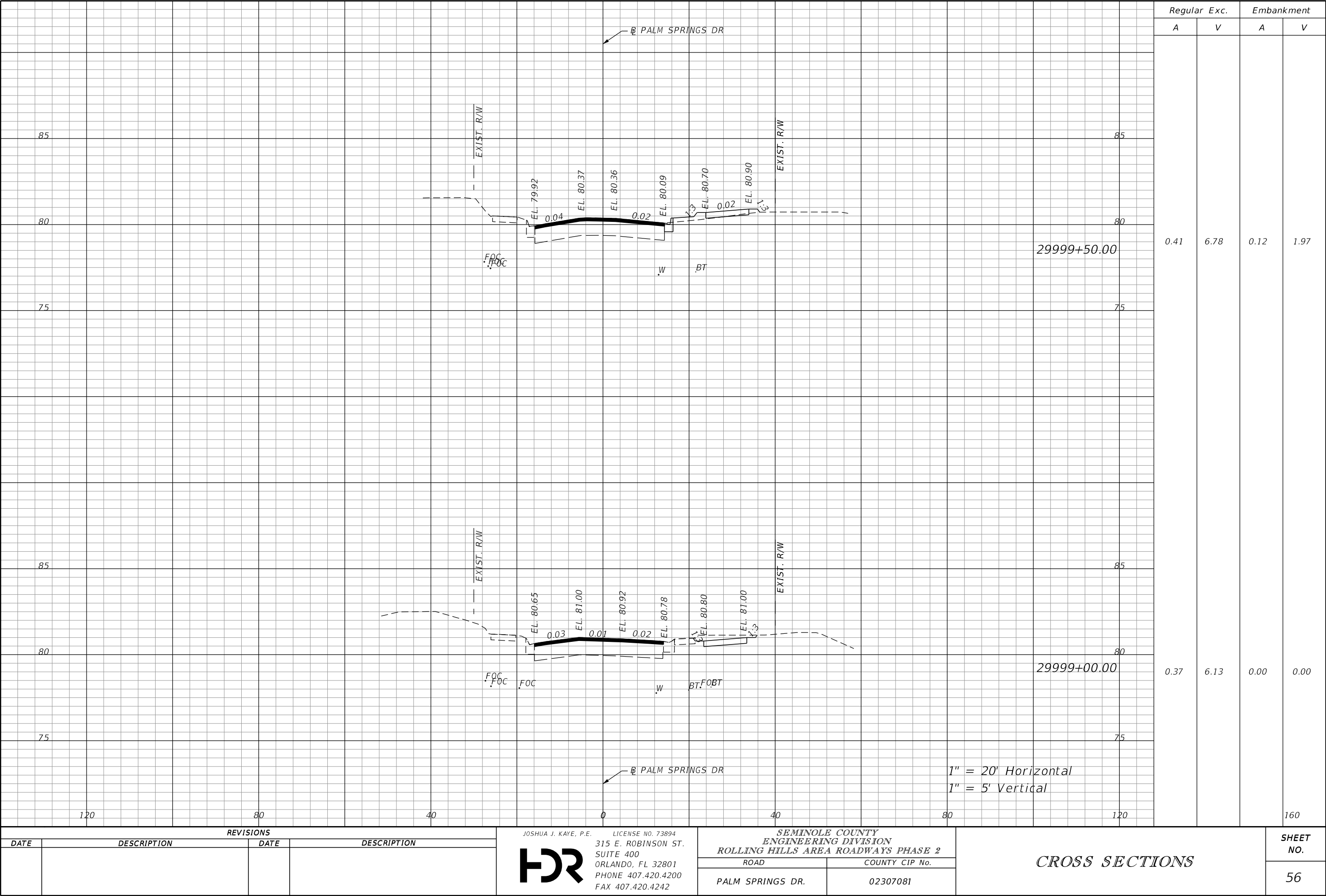
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOSHUA J. KAYE, P.E. LICENSE NO. 73894
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242

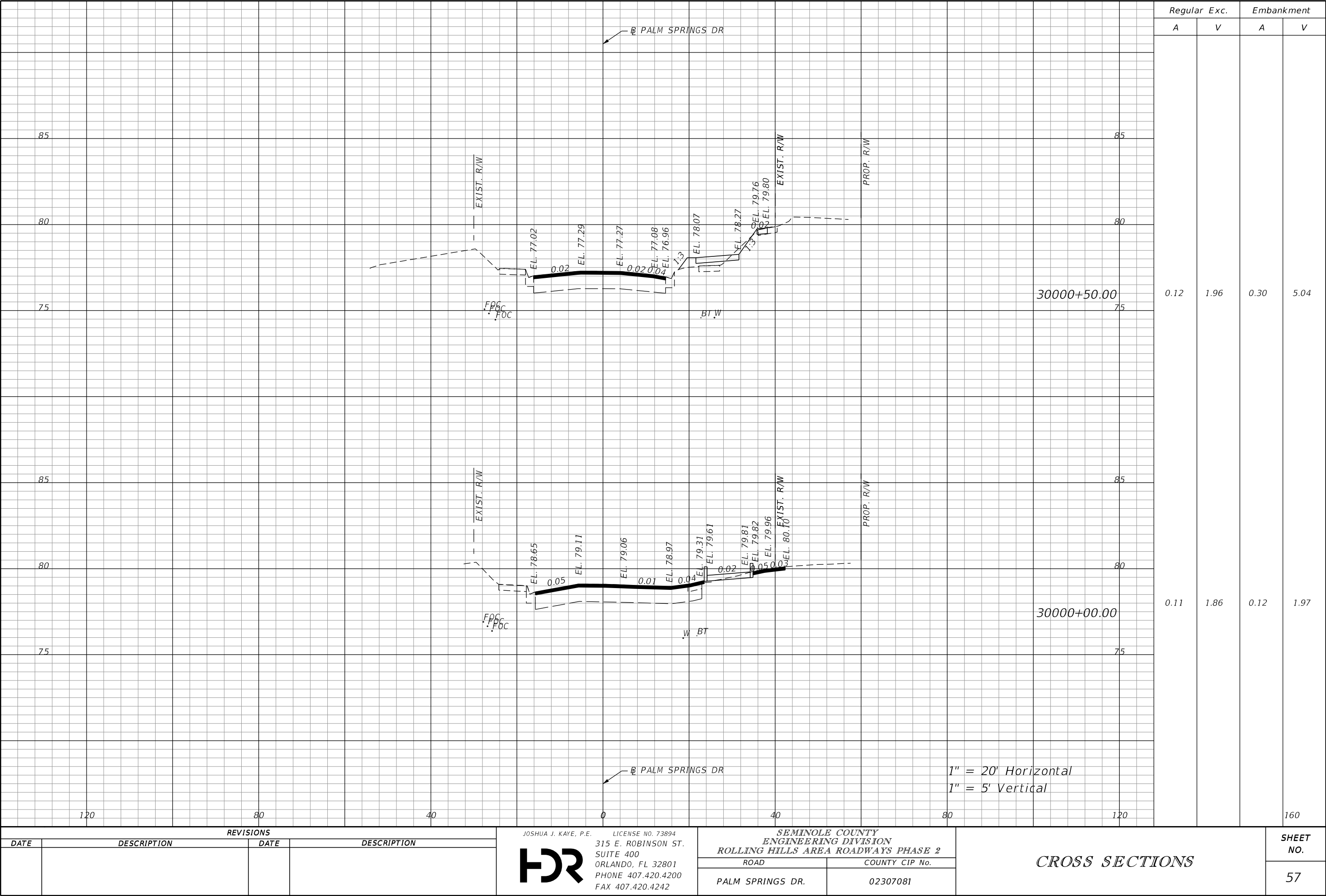


SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2	
ROAD	COUNTY CIP No.
PALM SPRINGS DR.	02307081

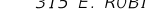
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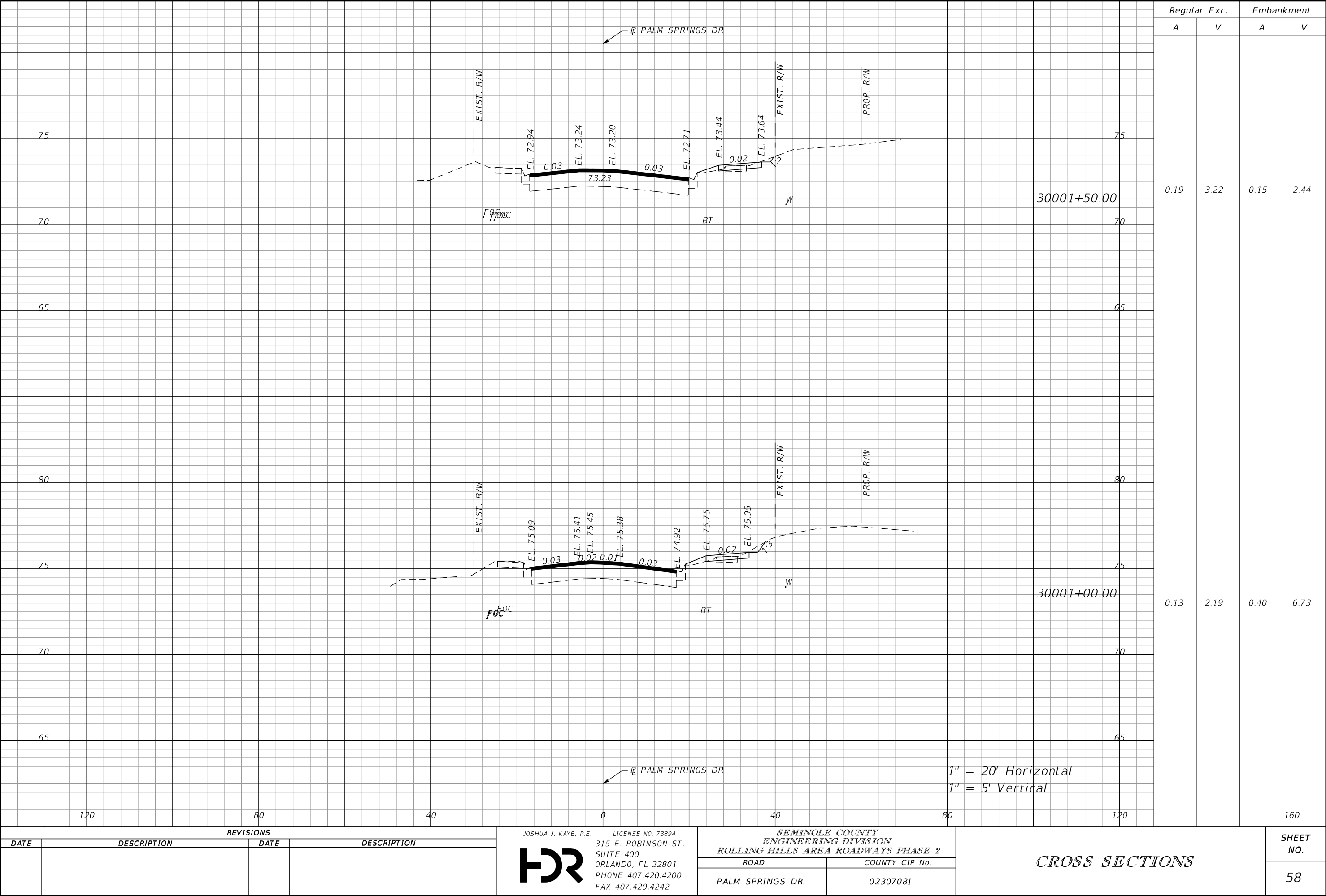


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

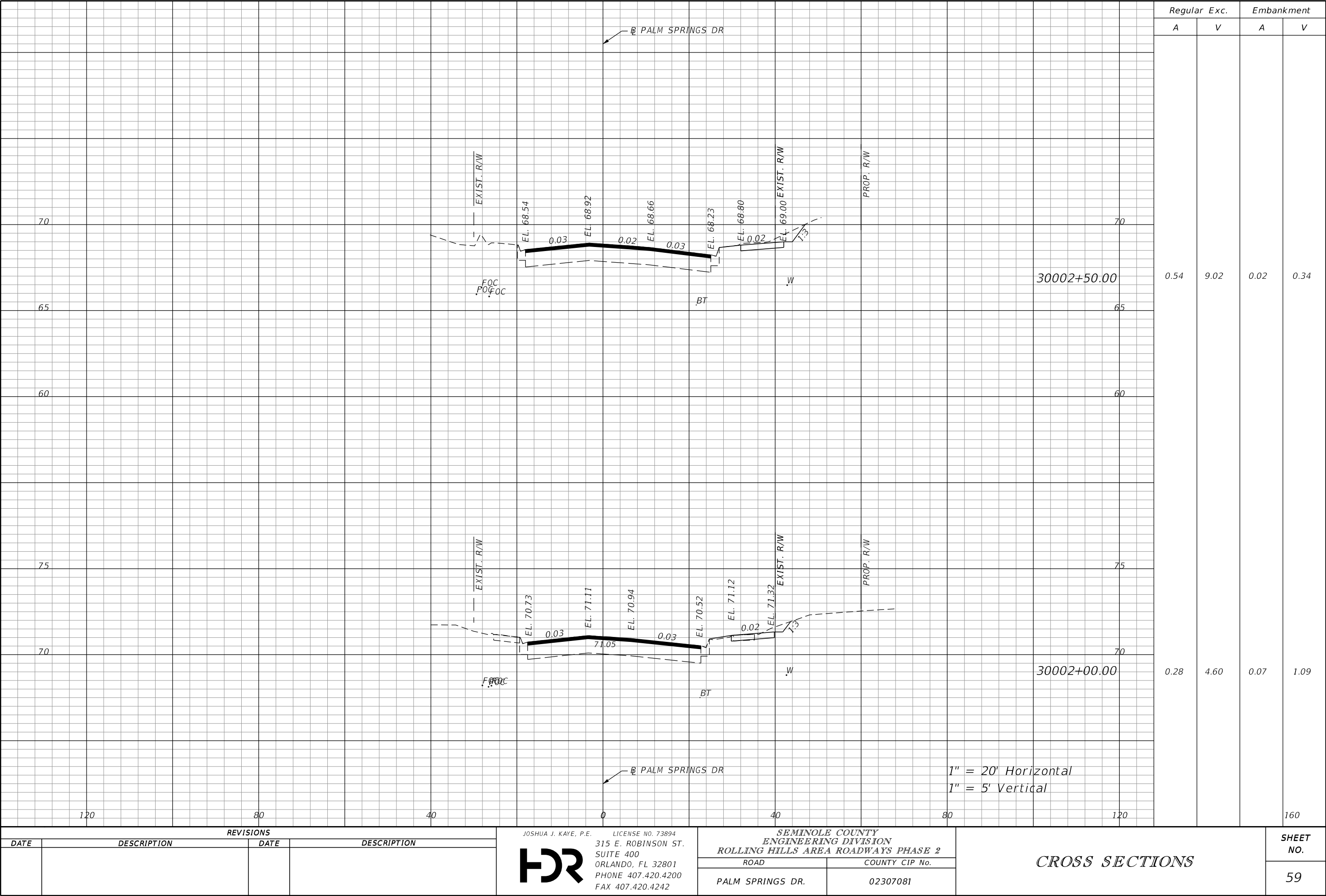


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

REVISIONS				JOSHUA J. KAYE, P.E. LICENSE NO. 73894 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242 	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		57
					PALM SPRINGS DR.	02307081		



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Regular Exc. Embankment

A V A V

0.54 9.02 0.02 0.34

0.28 4.60 0.07 1.09

SHEET NO. 59

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOSHUA J. KAYE, P.E.

LICENSE NO. 73894

315 E. ROBINSON ST.

SUITE 400

ORLANDO, FL 32801

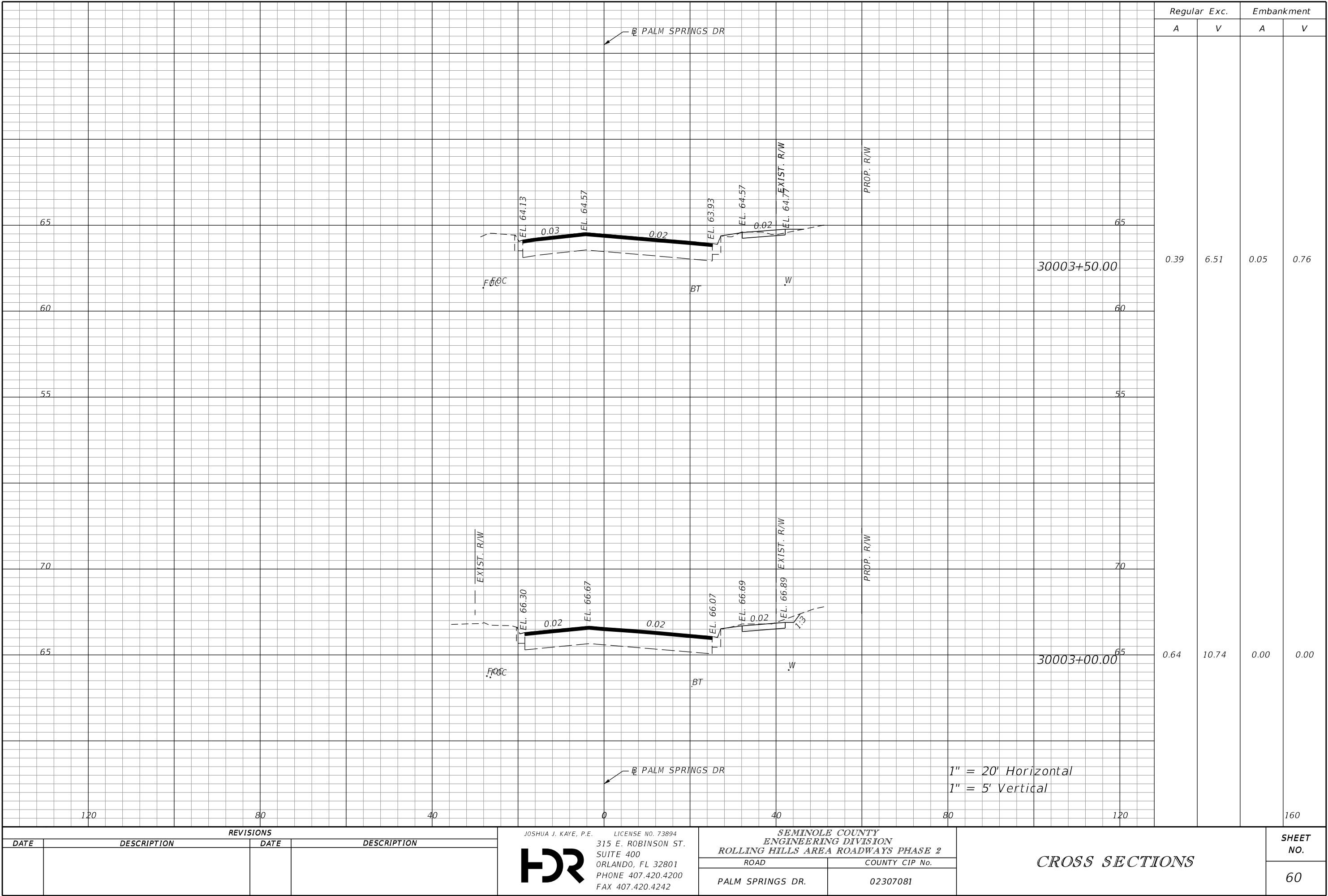
PHONE 407.420.4200

FAX 407.420.4242

SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2	
ROAD	COUNTY CIP No.
PALM SPRINGS DR.	02307081

CROSS SECTIONS	

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Regular Exc. Embankment

A V A V

0.39 6.51 0.05 0.76

0.64 10.74 0.00 0.00

SHEET NO.

60

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOSHUA J. KAYE, P.E. LICENSE NO. 73894
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242



SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2	
ROAD	COUNTY CIP No.
PALM SPRINGS DR.	02307081

CROSS SECTIONS

SUSERS

SDATES

STIMES

SFILES



Regular Exc. Embankment

A V A V

0.31 5.09 0.27 4.53

0.23 3.75 0.28 4.66

SHEET NO.

61

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JOSHUA J. KAYE, P.E. LICENSE NO. 73894
315 E. ROBINSON ST.
SUITE 400
ORLANDO, FL 32801
PHONE 407.420.4200
FAX 407.420.4242



SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2	
ROAD	COUNTY CIP No.
PALM SPRINGS DR.	02307081

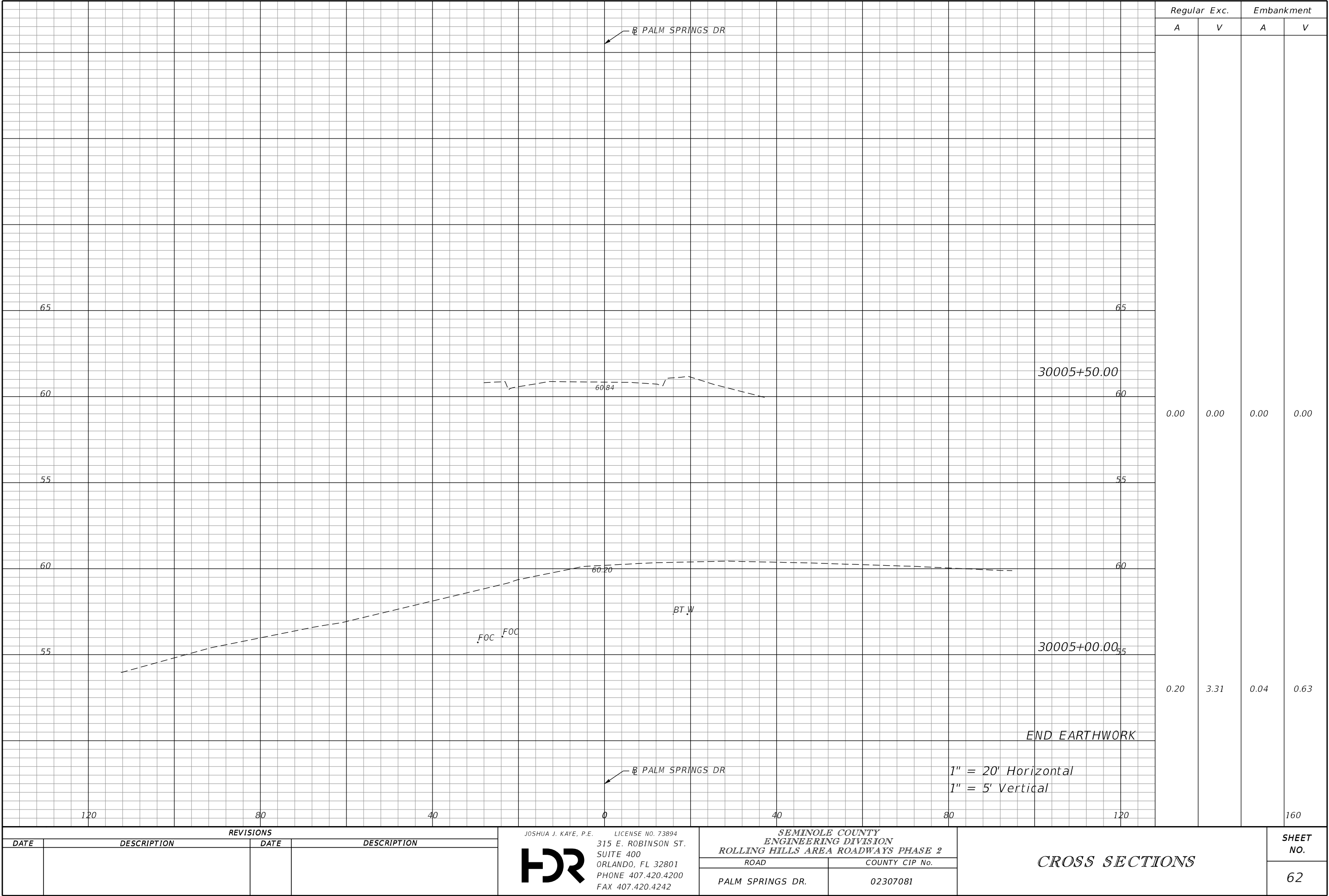
CROSS SECTIONS

\$USERS

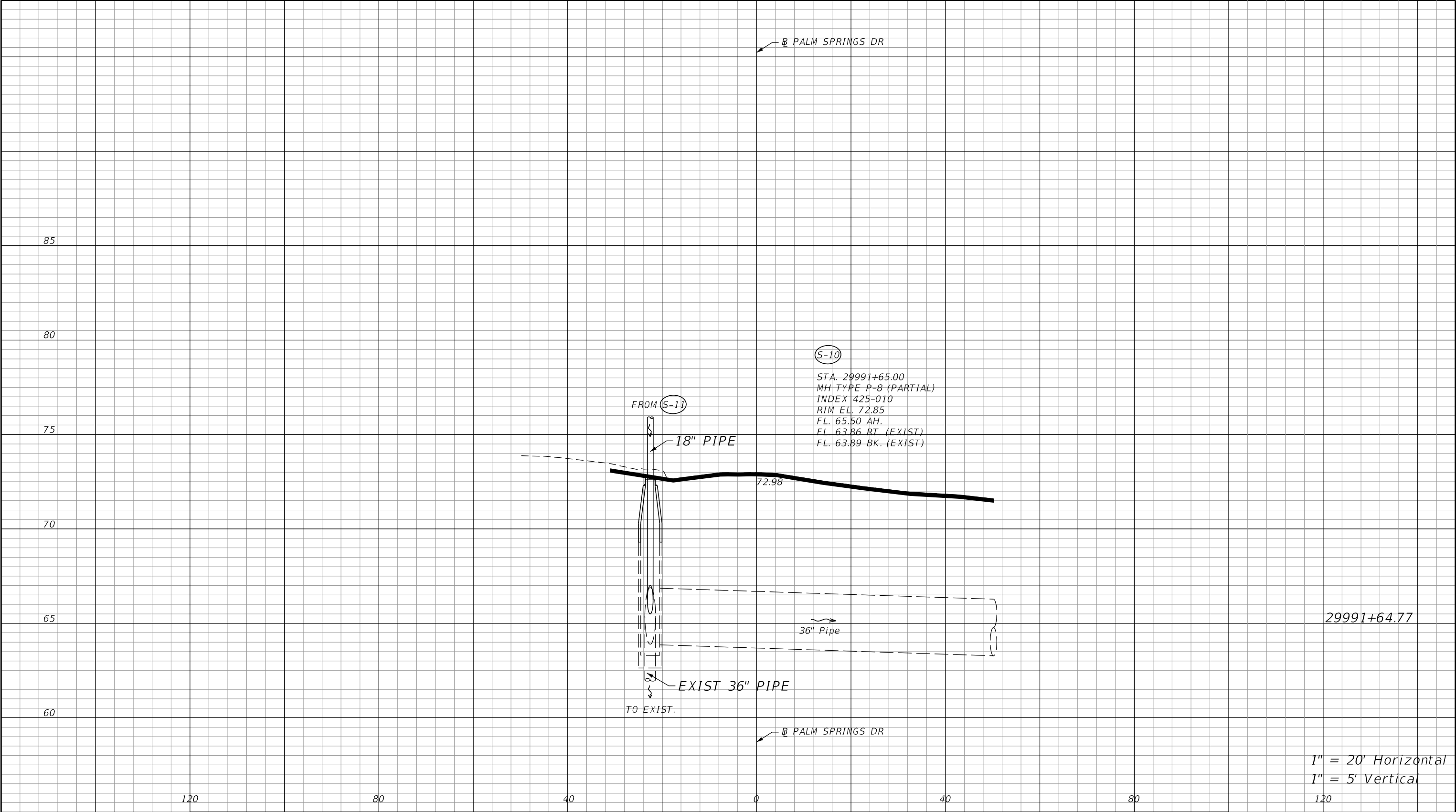
\$DATES

\$TIMES

\$FILES



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QTY.	STR. NO.	BASELINE	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN PIPE 18" ROUND	CURB INLETS P-1 <10'	MANHOLES PARTIAL	REMARKS
P	S-10	BL_PALM SPRINGS	29991+65	LT.	Manhole Top				1	
F										
P	S-11	BL_PALM SPRINGS	29992+25	LT.	Inlet, Pipe	1	58	1		
F										
PROJECT TOTALS						PLAN QUANTITY	58	1	1	
						FINAL QUANTITY				

DATE

DESCRIPTION

DATE

DESCRIPTION

RICK A. CINTRON, P.E.

LICENSE NO. 76423

315 E. ROBINSON ST.

SUITE 400

ORLANDO, FL 32801

PHONE 407.420.4200

FAX 407.420.4242

HR

SEMINOLE COUNTY

ENGINEERING DIVISION

ROLLING HILLS AREA ROADWAYS PHASE 2

ROAD

COUNTY CIP No.

PALM SPRINGS DR.

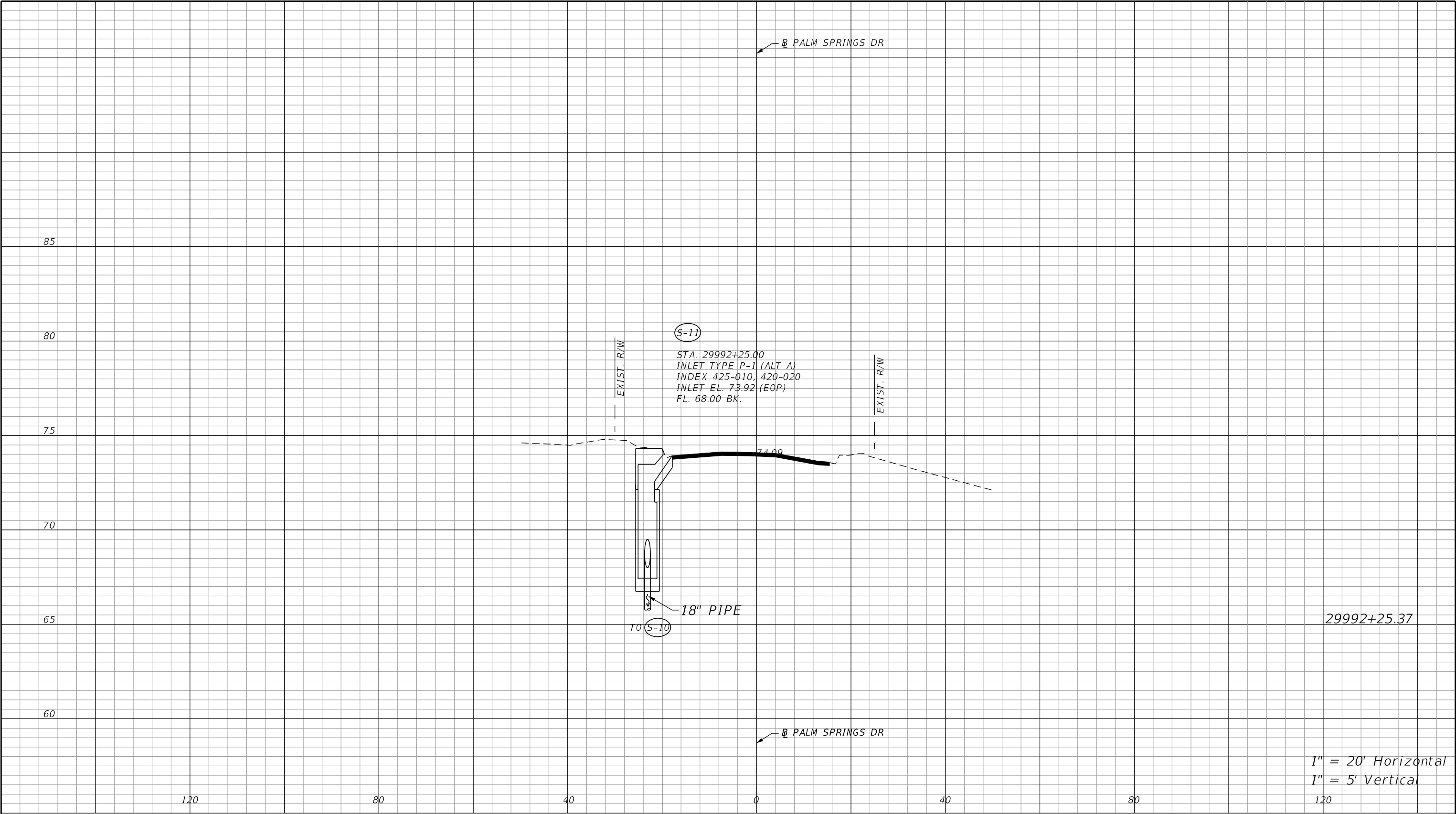
02307081

DRAINAGE STRUCTURES SHEET (1)

SHEET NO.

63

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



REVISIONS				RICK A. CINTRON, P.E. LICENSE NO. 76423 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242 RC	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		DRAINAGE STRUCTURES SHEET (2)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		64
					PALM SPRINGS DR.	02307081		

STORM WATER POLLUTION PREVENTION PLAN
NORTH STREET PHASE II
FINANCIAL PROJECT ID: 02307081 COUNTY: SEMINOLE

I. SITE DESCRIPTION:

- (1) NATURE OF CONSTRUCTION ACTIVITY
THE PROJECT INCLUDES MILLING AND RESURFACING, SAFETY UPGRADES, SIDEWALK AND DRIVEWAY CONSTRUCTION, IN SEMINOLE COUNTY, FLORIDA.
THIS PROJECT IS LOCATED IN DISTRICT 3 AND 4 OF SEMINOLE COUNTY, FLORIDA. THE PROJECT TOTAL LENGTH IS 0.75 MILES.
- (2) SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

1. INSTALLATION OF EROSION CONTROL DEVICES

2. CLEARING AND GRUBBING

3. MILLING AND RESURFACING OF TRAVEL LANES, SHOULDERS, MEDIAN OPENINGS AND RAMPS

4. PLACEMENT OF SOD AND LANDSCAPING

(a) PREPARE A SITE SPECIFIC EROSION AND SEDIMENT CONTROL PLAN ALONG WITH A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT.

(b) MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE ENGINEER.

(c) APPLICABLE EROSION AND SEDIMENT CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE FDOT STANDARD INDEXES AND THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL (E&SC MANUAL).

(d) THE ENGINEER IS RESPONSIBLE FOR DETERMINING IF ANY MODIFICATIONS OR ADDITIONAL CONTROLS ARE REQUIRED AND TO OBTAIN DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL ADDITIONAL EROSION AND SEDIMENT CONTROL DEVICES FROM THE CONTRACTOR.
- (3) GENERAL NOTES:

(a) ALL EROSION AND SEDIMENT CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE.

(b) INSTALL EROSION AND SEDIMENT CONTROL DEVICES WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR PERIMETER CONTROLS BEFORE THE LAND IS DISTURBED.

(c) PROVIDE SEDIMENT BARRIERS WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT CONTROL PLAN FOR DITCH/SWALE CHECK DAMS DURING CONSTRUCTION.

(d) PROVIDE INLET PROTECTION SYSTEMS AT INLET OPENINGS.

(e) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.

(f) DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.

(g) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.

(h) DO NOT REMOVE PERIMETER CONTROLS UNTIL ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT VEGETATION IS ESTABLISHED.
- (4) PROJECT AREAS:
THE ESTIMATED TOTAL PROJECT AREA IS 5.5 ACRES. THE ESTIMATED AREA TO BE DISTURBED DURING CONSTRUCTION ACTIVITIES IS 2.7 ACRES.
- (5) RUNOFF COEFFICIENTS BEFORE Cw (B), DURING Cw (D) AND AFTER Cw (A) CONSTRUCTION:

RUNOFF COEFFICIENT FOR: GRASSED SHOULDERS ADJACENT TO ROADWAY: C=0.35
IMPERVIOUS ROADWAYS AND PAVED SHOULDER: C=0.95
DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C=0.40

WEIGHTED RUNOFF COEFFICIENT:
BEFORE: Cw (B) = 0.85 DURING: Cw (D) = 0.85 AFTER: Cw (A) = 0.85

THE RUNOFF COEFFICIENT DURING CONSTRUCTION, Cw (D), IS CALCULATED ASSUMING THAT THE MAXIMUM ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION AND THE REMAINING AMOUNT IS THE EXISTING IMPERVIOUS AND GRASSED SHOULDER AREAS.

(6) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE:

SOIL TYPE	HYDROLOGIC GROUP	DEPTH TO SHWE
6 - ASTATULA-APOPKA FINE SANDS (0% TO 5% SLOPES)	A	2 TO 18 INCHES
7 - ASTATULA-APOPKA FINE SANDS (5% TO 8% SLOPES)	A	0 INCHES
8 - ASTATULA-APOPKA FINE SANDS (8% TO 12% SLOPES)	A	0 TO 18 INCHES
31 - TAVARES-MILLHOPPER COMPLEX (0% TO 5% SLOPES)	A	6 TO 18 INCHES
34 - URBAN LAND (0% TO 2% SLOPES)		
99 - WATER		

REFERENCE: USDA WEB SOIL SURVEY OF SEMINOLE COUNTY, FLORIDA

- (7) ESTIMATED DRAINAGE FLOW DIRECTION AND AVERAGE SLOPE OF DRAINAGE AREA FOR EACH OUTFALL:

(a) SITE MAP: SEE CONSTRUCTION PLANS.

(b) DRAINAGE MAPS OR MAPS WITH APPROPRIATE CONTOURS: N/A
- (8) RECEIVING WATERS:
THE PROJECT DRAINS TO ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT STORMWATER SYSTEM TO VARIOUS LAKES AND RIVERS.
- (9) OUTFALL LOCATIONS: (TEMPORARY AND PERMANENT)

DESCRIPTION	STATION	LATITUDE	LONGITUDE
(a) LAKE MARION	OFFSITE	81°21'58.7"W	28°40'47.6"N
- (10) DESCRIPTION OF STORMWATER MANAGEMENT: (EXISTING/PROPOSED)

(a) RUNOFF FROM MAINLINE SHEET FLOWS TO ROADSIDE DITCHES, STORM DRAINS, AND SOD.

(b) LOCATION OF PERMANENT CONTROLS: ROADSIDE DITCHES AND STORM SEWER ARE THE PRIMARY STORMWATER MANAGEMENT CONTROLS. THESE ARE SHOWN ON THE ROADWAY PLANS.

(c) STORMWATER RUNOFF SHALL BE CONVEYED TO EITHER TEMPORARY SEDIMENT BASINS, CONTAINMENT SYSTEMS AND/OR TO PERMANENT STORMWATER MANAGEMENT FACILITIES (TREATMENT AND ATTENUATION PONDS). THE PROPOSED SEDIMENT BASINS, CONTAINMENT SYSTEMS AND/OR STORMWATER MANAGEMENT FACILITIES SHALL BE CONSTRUCTED DURING THE INITIAL PHASE OF CONSTRUCTION AND USED DURING CONSTRUCTION OF THE ROADWAY. THE OUTFALL STRUCTURES ARE TO BE PLUGGED WHEN TEMPORARY SEDIMENT BASINS, CONTAINMENT SYSTEMS OR PERMANENT STORMWATER MANAGEMENT FACILITIES ARE USED FOR EROSION AND SEDIMENT CONTROL.

(d) TAKE ALL REASONABLE PRECAUTIONS TO PREVENT UNAUTHORIZED MATERIALS FROM ENTERING WETLANDS, WATERWAYS, OTHER SURFACE WATERS OR WATERS OF THE U.S.

REVISIONS				RICARDO A. CINTRON, P.E. LICENSE NO. 76423 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242 	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE I		STORMWATER POLLUTION PREVENTION PLAN (1)		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.			65
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084			

II. CONTROLS:

SEDIMENT AND EROSION CONTROLS

(1) WATER QUALITY MONITORING:

- (a) WATER QUALITY MONITORING SHALL BE CONDUCTED IN ACCORDANCE WITH THE SPECIAL CONDITIONS OF ANY ENVIRONMENTAL PERMIT OR BY THE CONTRACTOR UPON THE OBSERVATION THAT WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING LOCATIONS MAY BE SPECIFIED IN THE ENVIRONMENTAL PERMIT OR MAY BE DESIGNATED BY THE CONTRACTOR AND APPROVED BY THE PROJECT ADMINISTRATOR.
- (b) THE ENGINEER WILL BE RESPONSIBLE FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO TURBIDITY (NO GREATER THAN 29 NTU'S ABOVE BACKGROUND OR GREATER THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).
- (c) IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION SHALL BE STOPPED IMMEDIATELY, THE ENVIRONMENTAL PERMIT CONDITIONS FOLLOWED AND EROSION AND SEDIMENT CONTROL DEVICES REEVALUATED AND APPROVED BY THE ENGINEER PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL BELOW AN ACCEPTABLE LEVEL (LESS THAN 29 NTU'S ABOVE BACKGROUND OR LESS THAN 0 NTU'S ABOVE BACKGROUND FOR DIRECT DISCHARGES TO OFW'S).
- (d) WATER QUALITY MONITORING MAY BE CONDUCTED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.

(2) STABILIZATION PRACTICES:

- (a) STABILIZATION MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO MAINTAINING, ESTABLISHING AND USING VEGETATION, APPLYING MULCHES, SODDING, SEEDING, AND BMP'S. WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, SIDE SLOPES SHALL BE STABILIZED WITH PERFORMANCE SODDING OR SEEDING OR ANY OTHER APPROVED METHOD OF STABILIZATION INCLUDED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL).
- (b) STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE CONSTRUCTION ACTIVITIES HAVE CEASED, BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY CEASES EITHER TEMPORARILY OR PERMANENTLY.
- (c) ALL EROSION CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO THE CONTRACT DOCUMENTS, AND THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN.
- (d) ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF THE PROJECT HAS BEEN ACHIEVED.
- (e) SEDIMENT BARRIERS SHOULD BE USED ALONG THE LENGTH OF THE PROJECT WHERE THE GROUND SLOPES AWAY FROM THE RIGHT OF WAY OR WHERE THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFF-SITE. PARTICULAR CARE SHOULD BE USED WHEN THERE ARE WETLANDS OR WATERS OF THE U.S. ARE INVOLVED. SEDIMENT BARRIERS SHOULD BE USED AROUND THE PERIMETER OF STOCKPILE AREAS.
- (f) SPACING OF SEDIMENT BARRIERS USED AS DITCH OR SWALE CHECKS/DAMS SHOULD BE BASED UPON THE HEIGHT OF THE BARRIER AND THE SLOPE OF THE DITCH OR SWALE.
- (g) MODIFY SOIL TRACKING PREVENTION SYSTEMS OR PROCEDURES AS NEEDED.

(3) STRUCTURAL PRACTICES FOR EROSION AND SEDIMENT CONTROL

(a) SEDIMENT BARRIERS (TEMPORARY CONSTRUCTION SITE BMP'S)

PURPOSE: SEDIMENT BARRIERS EITHER OBSTRUCT FLOW OR PREVENT THE PASSAGE OF WATER WHILE CONSTRUCTION ACTIVITIES OCCUR. SMALLER SEDIMENT BARRIERS MAY FUNCTION AS A SMALL SEDIMENT CONTAINMENT SYSTEM OR AS A METHOD TO REDUCE FLOW VELOCITY.

- (1) THESE CONSTRUCTION BMP'S CAN INCLUDE SYNTHETIC BALES, STAKED SILT FENCE, TURBIDITY BARRIER, STORM SEWER INLET BARRIERS, ROCK BARRIERS, GEOSYNTHETIC BARRIERS, ETC.
- (2) APPROPRIATE LOCATIONS INCLUDE SITE PERIMETER, BELOW DISTURBED AREAS SUBJECT TO SHEET AND RILL EROSION, BELOW THE TOE OF EXPOSED AND ERODIBLE SLOPES, ALONG THE TOE OF STREAM AND CHANNEL BANKS, AROUND DRAINS AND INLETS LOCATED IN LOW POINTS OR THE DOWNSTREAM EDGE OF AREAS UNDERGOING VERTICAL OR BOX CULVERT CONSTRUCTION ACTIVITIES.
- (3) INAPPROPRIATE LOCATIONS FOR THESE SAME MEASURES INCLUDE PARALLEL TO A HILLSIDE CONTOUR, IN CHANNELS WITH CONCENTRATED FLOW (UNLESS PROPERLY REINFORCED), UPSTREAM OR DOWNSTREAM OF CULVERTS WITH CONCENTRATED FLOW, IN FRONT OF OR AROUND INLETS ON A GRADE WITH CONCENTRATED FLOW OR IN FLOWING STREAMS.

(b) INLET PROTECTION SYSTEM

PURPOSE: ANY OF A NUMBER OF SEDIMENT BARRIERS THAT EITHER PREVENT SEDIMENT FROM ENTERING AN INLET OR TRAP THE SEDIMENTS ONCE THEY ENTER THE INLET.

- (1) TYPICAL APPLICATIONS INCLUDE ROCK BARRIERS, FRAME AND FILTER BARRIERS, CURB INLET "SUMP" BARRIER, CURB INLET DIVERSION BERM, CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM OR CURB INLET INSET.
- (2) SHOULD BE INSTALLED ONLY WHEN CONSTRUCTION ACTIVITIES ARE ON-GOING AND ONLY WHERE SUMP CONDITIONS EXIST.
- (3) SHOULD NOT BE USED WHEN CONSTRUCTION IS COMPLETE AND SHOULD NOT BE USED IN AREAS WHERE FLOODING COULD ENCROACH INTO THE TRAVEL LANES.

(c) FLOATING TURBIDITY BARRIER

PURPOSE: USED IN PERMANENT BODIES OF WATER TO RETAIN SEDIMENT AND FLOATING DEBRIS FROM A CONSTRUCTION AREA SO THAT REMOVAL OR CONTAINMENT OF THE MATERIAL IS POSSIBLE. THEY ARE ALSO USED TO CONTROL MIGRATION OF SUSPENDED SEDIMENTS.

- (1) TYPE I, LIGHT DUTY, IS USED WHERE THERE IS LITTLE OR NO CURRENT, NO WIND AND NO WAVE ACTION.
- (2) TYPE II, MODERATE DUTY, IS USED WITH SOME CURRENT (<3.5 FT. PER SECOND) AND SOME EXPOSURE TO WIND.
- (3) TYPE III, HEAVY DUTY, IS USED WITH GREATER CURRENT (3.5-5.0 FT. PER SECOND), MODERATE WIND AND WAVE ACTION
- (4) BARRIER MUST BE ATTACHED AT BOTH ENDS AND WEIGHTED ON THE BOTTOM.
- (5) MULTIPLE LINES OF BARRIER MAY BE USED IN SOME CIRCUMSTANCES FOR ADDITIONAL PROTECTION.
- (6) STANDARD PANELS FOR WATER DEPTHS ARE 5.0'. ADDITIONAL PANELS CAN BE USED FOR WATER DEPTHS GREATER THAN 5.0'.

(4) APPROVED STATE OR LOCAL PLANS AND PERMITS FDEP RULE 62 -25 F.A.C.

III. OTHER CONTROLS:

(1) WASTE DISPOSAL

- (a) PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES.
- (b) ALL FERTILIZER AND CHEMICAL CONTAINERS SHALL BE DISPOSED OF ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- (c) NO SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO WETLANDS OR BURIED ON SITE.
- (d) ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.

(2) OFF-SITE VEHICLE TRACKING - WILL BE CONTROLLED BY THE FOLLOWING METHODS:

- (a) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPAULIN AT ALL TIMES.
- (b) EXCESS DIRT ON ROAD WILL BE REMOVED DAILY.

(3) STATE AND FEDERAL REGULATIONS: PERMITS WILL BE NOT BE REQUIRED FROM THE ST. JOHN'S WATER MANAGEMENT DISTRICT & US ARMY CORPS OF ENGINEERS. DEWATERING TO BE PERFORMED UNDER GENERAL PERMIT BY RULE FOR SHORT-TERM DEWATERING IN ACCORDANCE WITH 40E-2.061 (2)(c) F.A.C.. A NPDES PERMIT WILL BE REQUIRED FROM THE FLORIDA DEPARTMENT ENVIRONMENTAL PROTECTION.

(4) NON-STORMWATER (INCLUDING SPILL REPORTING)

PROVIDE THE COUNTY WITH AN EROSION AND SEDIMENT CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT RACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, UBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR INTO THE SURFACE WATERS. IF A SPILL DOES OCCUR, OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT ***INSERT CONTACT INFO WHEN CONFIRMED WITH COUNTY***

IV. MAINTENANCE:

MAINTAIN AND REPAIR ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED. REMOVE AND PROPERLY DISPOSE OF SEDIMENT BUILDUP THROUGH THE LIFE OF THE INSTALLED EROSION AND SEDIMENT CONTROL DEVICES.

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- (1) ALL CONTROL MEASURES WILL BE MAINTAINED DAILY AND ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF NOTICE.
- (2) SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
- (3) SYNTHETIC BALES SHALL BE MAINTAINED TO ENSURE THEIR USEFULNESS AND NOT BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.
- (4) STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

V. INSPECTION:

- (1) INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL IN ACCORDANCE WITH THE NPDES PERMIT.
- (2) ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.
- (3) COMPLETE ALL SWPPP INSPECTION REPORT FORMS REQUIRED FOR THE NPDES PERMIT.

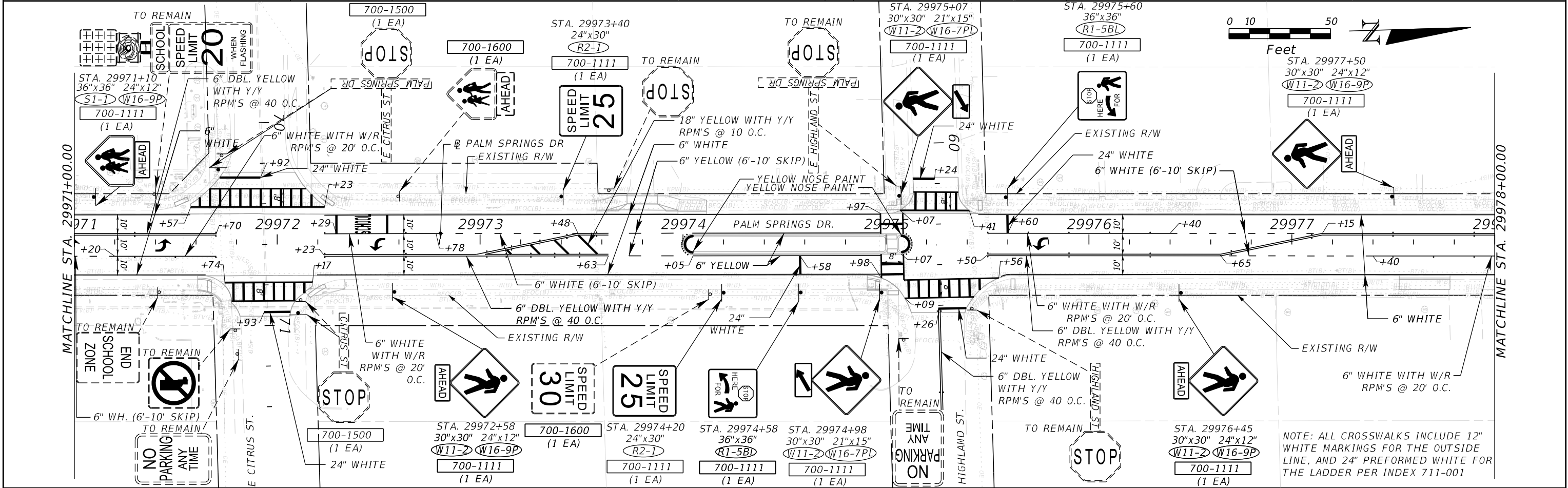
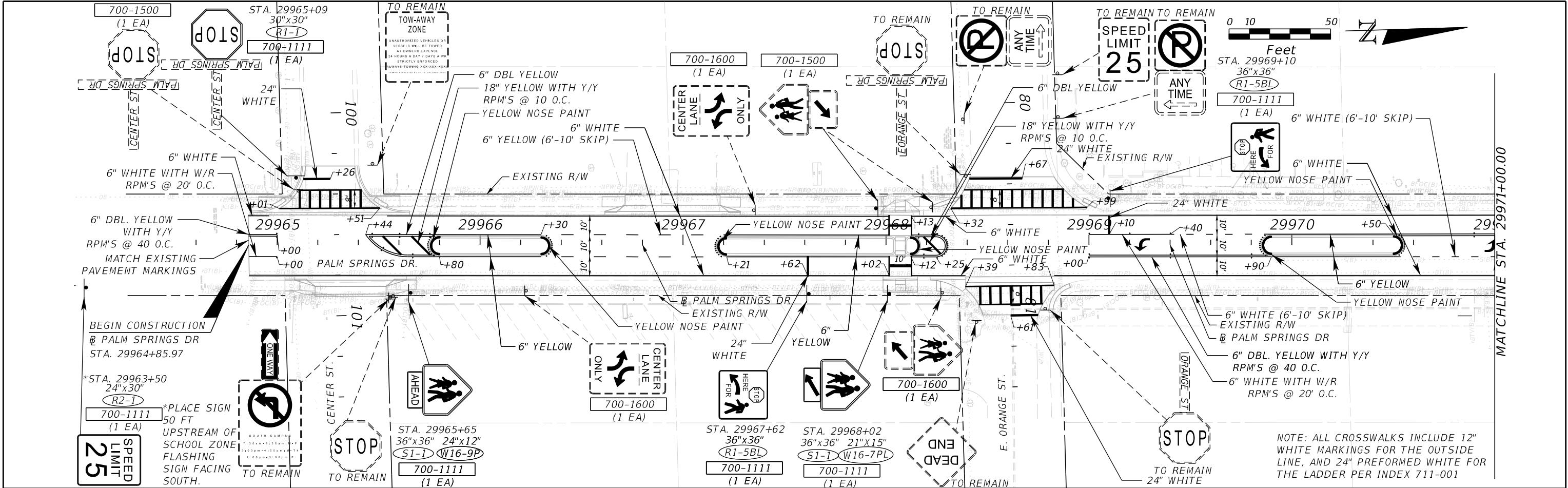
VI. TRACKING AND REPORTING:

- (1) THE CONTRACTOR SHALL SUBMIT A WEEKLY REPORT TO THE SEMINOLE COUNTY DEPARTMENT OF PUBLIC WORKS DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE EROSION AND SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS.
- (2) PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED THE EROSION CONTROL PAY ITEMS SUMMARIZED IN THE PLANS.
- (3) THE CONTRACTOR SHALL USE THE SWPPP CONSTRUCTION INSPECTION REPORT FORM # 650-040-03, FOR DAILY INSPECTIONS.

REVISIONS				RICARDO A. CINTRON, P.E. LICENSE NO. 76423  315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		STORMWATER POLLUTION PREVENTION PLAN (3)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		67
					RAYMOND AVE.,NORTH ST.,PALM SPRINGS DR.	01907084		

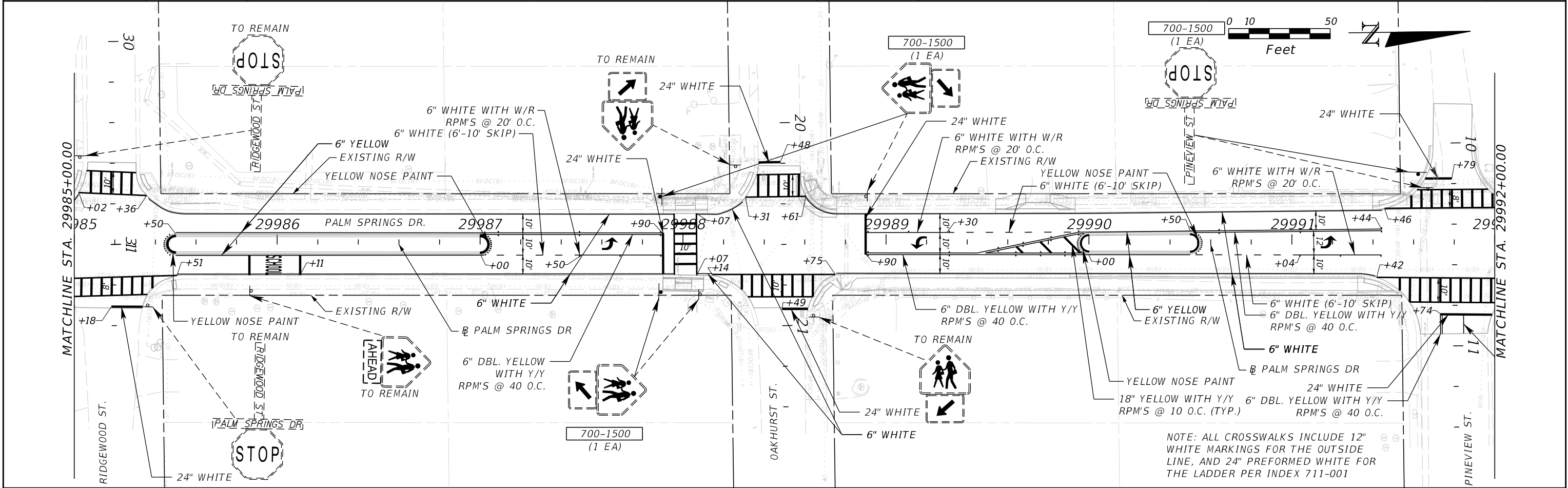
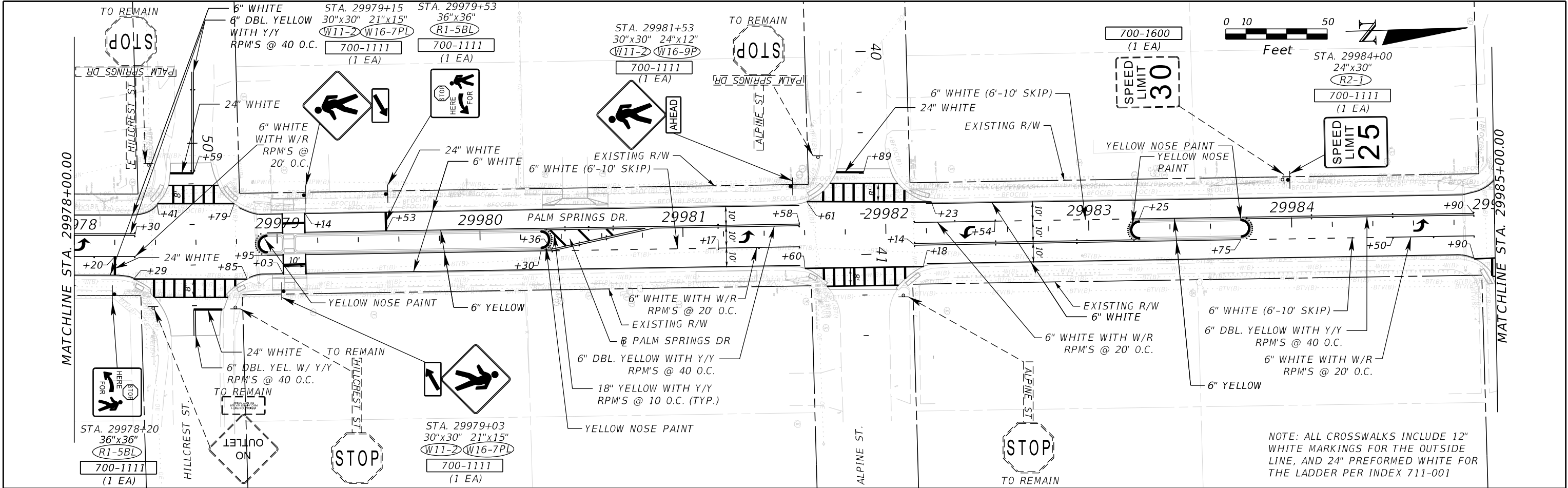
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DATE	DESCRIPTION	DATE	DESCRIPTION						

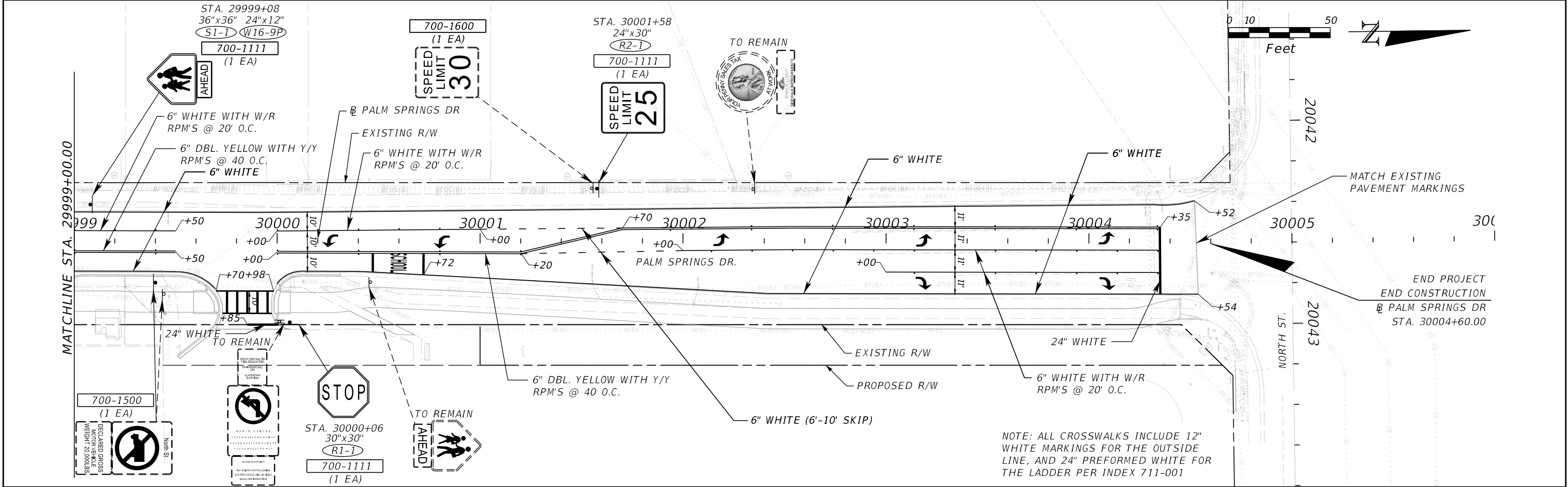
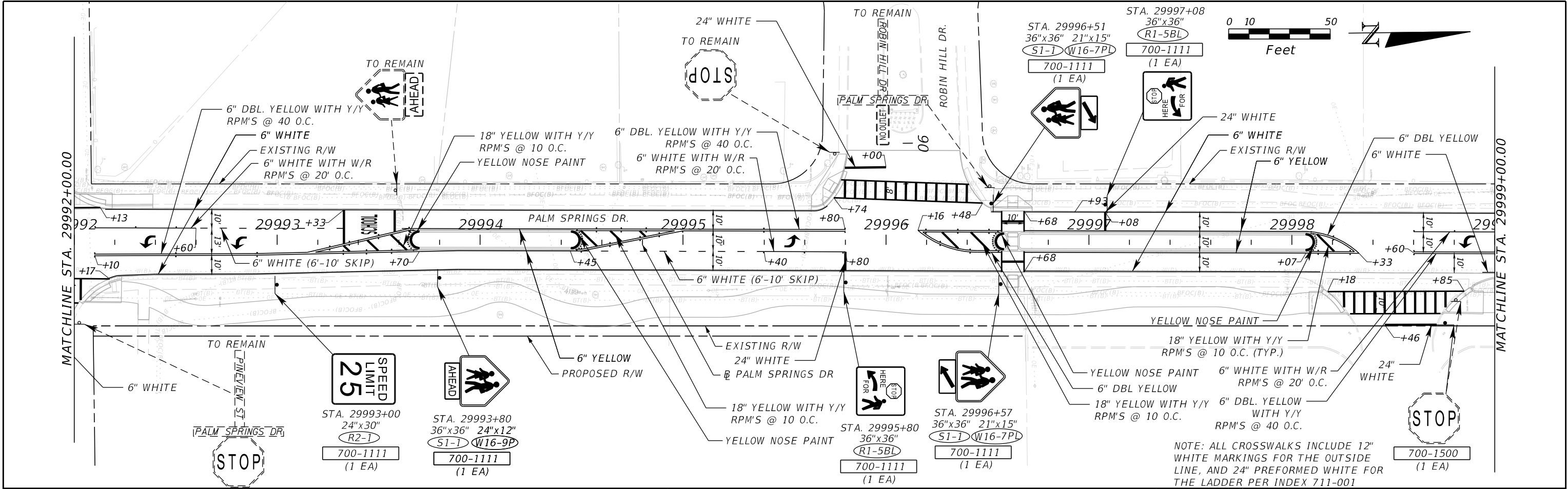
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DATE	DESCRIPTION	DATE	DESCRIPTION					

ROAD		COUNTY CIP No.
PALM SPRINGS DR.	02307081	

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		70
					PALM SPRINGS DR.	02307081		

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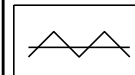
TABULATION OF QUANTITIES																											
PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																		TOTAL THIS SHEET		GRAND TOTAL				
			T-3																								
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
630-2-11	CONDUIT, (F&I), (OPEN TRENCH)	LF	48																			48		48			
630-2-12	CONDUIT, (F&I), (DIRECTIONAL BORE)	LF	114																			114		114			
632-7-2	SIGNAL CABLE - REPAIR/REPLACE/OTHER, (F&I)	LF	196																			196		196			
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	5																			5		5			
646-1-11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	4																			4		4			
646-1-12	ALUMINUM SIGNALS POLE, F&I, PEDESTRIAN DETECTOR POST	EA	1																			1		1			
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA	2																			2		2			
653-1-11	PEDESTRIAN SIGNAL, F&I, LED COUNTDOWN, 1 WAY	AS	6																			6		6			
653-1-60	PEDESTRIAN SIGNAL, REMOVE PED SIGNAL, POLE/PEDESTAL TO REMAIN	AS	2																			2		2			
660-2-102	LOOP ASSEMBLY, F&I, TYPE B	AS	2																			2		2			
660-2-106	LOOP ASSEMBLY, F&I, TYPE F	AS	4																			4		4			
665-1-11	PEDESTRIAN DETECTOR, (F&I), STANDARD	EA	6																			6		6			
665-1-60	PEDESTRIAN DETECTOR, REMOVE-POLE/PEDESTAL TO REMAIN	EA	2																			2		2			
670-5-710	TRAFFIC CONTROLLER ASSEMBLY, MODIFY ONLY-NO COMPONENTS ADDED	AS	1																			1		1			
REVISIONS				RICHARD ATTA-ARMAH, P.E. LICENSE NO. 57961 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242						SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE II						TABULATION OF QUANTITIES						SHEET NO.					
DATE	DESCRIPTION	DATE	DESCRIPTION																								

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SIGNALIZATION NOTES

1. THE CONTRACTOR SHALL CONTACT SEMINOLE COUNTY TRAFFIC ENGINEERING AT LEAST 48 HOURS PRIOR TO BEGINNING ANY WORK IN ANY INTERSECTIONS MAINTAINED BY SEMINOLE COUNTY.
2. UNLESS OTHERWISE NOTED, ALL REMOVED EQUIPMENT SHALL BE TURNED OVER TO SEMINOLE COUNTY EXCEPT CONCRETE POLES, WHICH SHALL BE DISPOSED OF BY THE CONTRACTOR.
3. THE CONTRACTOR SHALL NOTIFY SEMINOLE COUNTY TRAFFIC ENGINEERING 24 HOURS PRIOR TO DESTROYING EXISTING ROADWAY SENSORS. AT NO TIME IS THE CONTRACTOR TO CHANGE ANY SIGNAL TIMINGS WITHOUT COMMUNICATING WITH SEMINOLE COUNTY TRAFFIC ENGINEERING. IF LOOPS (NOT TEMPORARY DETECTION) ARE FUNCTIONING, RECALLS MAY BE REMOVED BY THE CONTRACTOR WITH APPROVAL FROM SEMINOLE COUNTY TRAFFIC ENGINEERING.
4. THE MAINTENANCE RESPONSIBILITY FOR ALL SIGNALS WITHIN THE CONSTRUCTION LIMITS SHALL REMAIN THE FULL RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL HAVE A I.M.S.A. LEVEL 2 SIGNAL TECHNICIAN ON SITE THROUGH ALL PHASES OF CONSTRUCTION AND ON CALL WITH A 2 HOUR MAXIMUM RESPONSE TIME.
5. A TERMINAL BLOCK WITH A MINIMUM OF A 6 MM WIRE INSERTION ORIFICE SHALL BE USED TO CONNECT CABLES AT THE SIGNAL POLE HAND HOLE WITH A MAXIMUM OF THREE 14 GAUGE CONDUCTORS PER LUG. AT LEAST 6' OF SLACK CABLE SHALL BE AVAILABLE FOR TROUBLESHOOTING.
6. INDIVIDUAL PEDESTRIAN POLES SHALL BE THE ALUMINUM BREAK-AWAY TYPE.
7. ALL VEHICLE AND PEDESTRIAN DISPLAYS, STREET ID'S, LUMINAIRES AND BLANK OUT SIGNS SHALL BE L.E.D. ALL PEDESTRIAN SIGNAL HEADS SHALL BE COUNTDOWN TYPE.
8. THE LUMINARIES/ILLUMINATED STREET ID'S SHALL BE POWERED FROM A SEPARATE BREAKER LOCATED IN THE BREAKER BOX, NOT THE SIGNAL CABINET. ALL PHOTOCELLS SHALL BE MOUNTED ON THE BREAKER BOX AND BE 15 AMPERE CAPACITY MINIMUM. ALL ILLUMINATED STREET ID'S SHALL BE MOUNTED PERPENDICULAR TO THE ROADWAY.
9. ALL CABLES WILL HAVE THREE SPARE CONDUCTORS.
10. CONDUIT SHALL BE INSTALLED ON ALL 4 SIDES OF THE INTERSECTION. CONDUIT THAT STARTS ON THE CABINET CORNER SHALL HAVE FOUR EACH, 2"INCH CONDUIT FOR EACH CROSSING OR BORE.
11. THE LOAD CENTER SHALL BE 125AMP, 8 SPACE, NEMA 3R RAINPROOF ENCLOSURE.
12. TYPE "F"LOOPS SHALL BE 6' X 40' AND SHALL EXTEND 5' PAST THE STOP BAR. WHEN "F" LOOPS ARE 6' X 20' AS SHOWN ON PLAN SET THE LOOP SHOULD BE 1' BEHIND STOP BAR.
13. EXISTING CONTROLLER CABINET SHALL BE RETURNED TO SEMINOLE COUNTY TRAFFIC ENGINEERING. THE CONTROLLER ASSEMBLY SHALL CONSIST OF A NEMA TS2 TYPE 6 CABINET (70006-TS2/FLPP64-E2-WCD9110600) AND A TS2-1 ATC CONTROLLER THAT IS COMPATIBLE WITH SEMINOLE COUNTY'S ADVANCED TRAFFIC MANAGEMENT SYSTEM. THE CONTROLLER ASSEMBLY SHALL HAVE ALL THE NECESSARY HARDWARE TO COMMUNICATE WITH THE SIGNAL SYSTEM.
14. THE CONTROLLER ASSEMBLY UPS SHALL BE LINE-INTERACTIVE AND COMPATIBLE WITH SEMINOLE COUNTY'S ADVANCE TRAFFIC MANAGEMENT SYSTEM.
15. FIBER OPTIC CABLE/INTERCONNECT: EACH SIGNAL CABINET SHALL HAVE A 24" X 36"PULL BOX IN FRONT OF THE CABINET WITH 100FT OF SLACK. CONNECTION TO THE SIGNAL CABINET SHALL BE A 12 FIBER SINGLE-MODE DROP WITH T CONNECTORS AND A MID-ENTRY SPLICE INTO THE BACKBONE CABLE. NO FIBER STRAND SHALL BE LEFT UN-TERMINATED OR UN-SPLICED UNLESS OTHERWISE SPECIFIED. FIBER OPTIC CABLE IS CONSIDERED "CRITICAL COMMUNICATIONS" AND SHALL BE IN SERVICE AT ALL TIMES. CUT OVER TO NEW FIBER SHALL BE DONE DURING OFF PEAK HOURS AND COORDINATED WITH SEMINOLE COUNTY TRAFFIC ENGINEERING (407-665-5677).
16. EXISTING DETECTION SHALL BE MAINTAINED FOR ALL ACTUATED MOVEMENTS. IF TEMPORARY OVERHEAD DETECTION IS USED, THE CONTRACTOR SHALL WIRE ISOLATION PANELS BETWEEN THE CONTROLLER ASSEMBLY AND OVERHEAD DETECTION WITHIN 24 HRS OF COMPROMISING EXISTING DETECTION.
17. EXISTING OPTICOM SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. ALL OPTICOM DETECTORS ON MAST ARMS SHALL BE MOUNTED IN AN UPRIGHT POSITION. THE OPTICOM MULTIMODE PHASE SELECTOR SHALL BE A PLUG-IN FOUR CHANNEL, DUAL PRIORITY, MULTIMODE ENCODED SIGNAL DEVICE DESIGNED FOR USE WITH BOTH OPTICOM INFRARED EMITTERS AND DETECTORS AND OPTICOM GPS RADIO/GPS INTERSECTION UNITS AND VEHICLE EQUIPMENT. SYSTEM SHALL INCLUDE AUXILIARY INTERFACE PANEL (AIP) AND GPS RADIO UNIT MOUNTED TO THE NEAREST MAST ARM OR STRAIN POLE. THE ASSEMBLY AND INCLUDED EQUIPMENT SHALL BE COMPATIBLE WITH THE SEMINOLE COUNTY'S FIRE DEPARTMENT STANDARDS.
18. CONTACT SEMINOLE COUNTY TRAFFIC ENGINEERING (TONY MOZICK 407-665-5588) TO OBTAIN CABINET BASE TEMPLATE PRIOR TO CONSTRUCTING CABINET BASE.

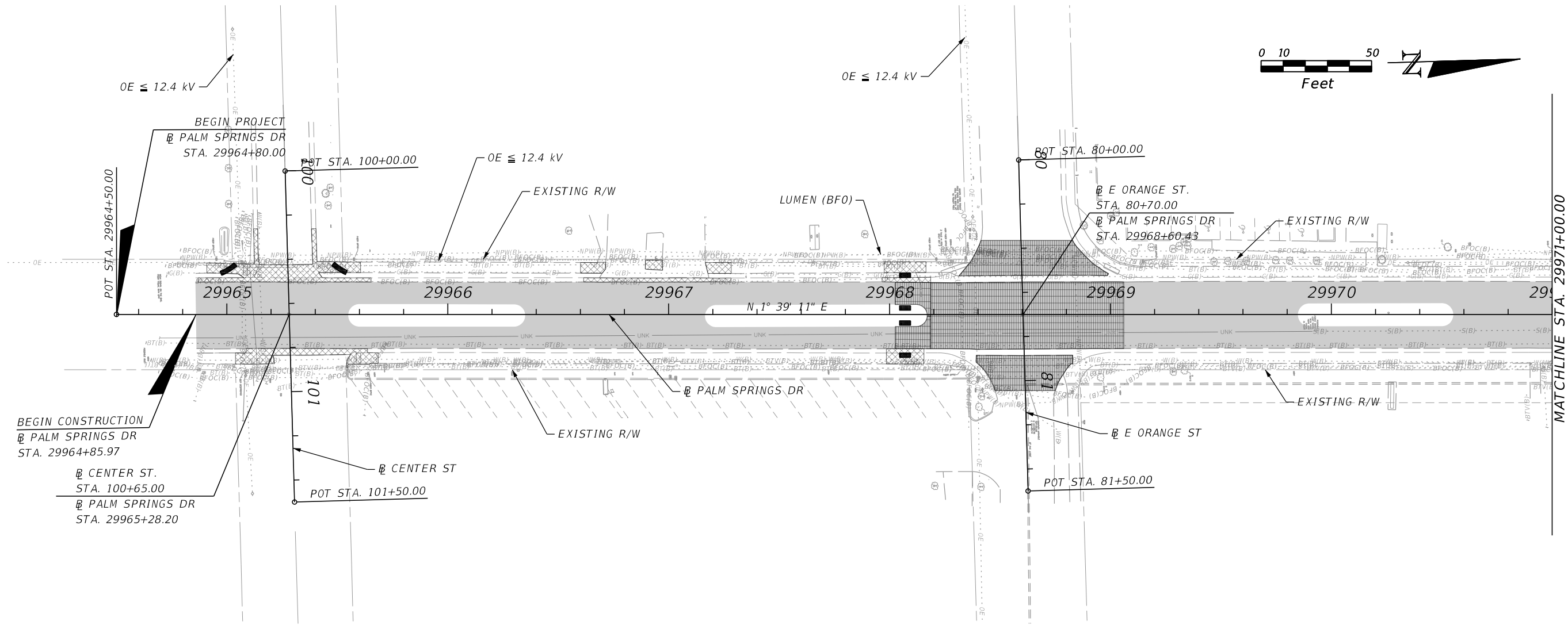
REVISIONS				RICHARD ATTA-ARMAH, P.E. LICENSE NO. 57961 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242 	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE II		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					PALM SPRINGS DR.	02307081		



LEGEND

REMOVE UTILITY

BURIED FIBER OPTIC



REVISIONS				MICHAEL R. HARTER LICENSE NUMBER: 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PKWY SUITE 180 MAITLAND, FL 32751	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		UTILITY ADJUSTMENTS	SHEET NO. 74
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					PALM SPRINGS DR.	02307081		

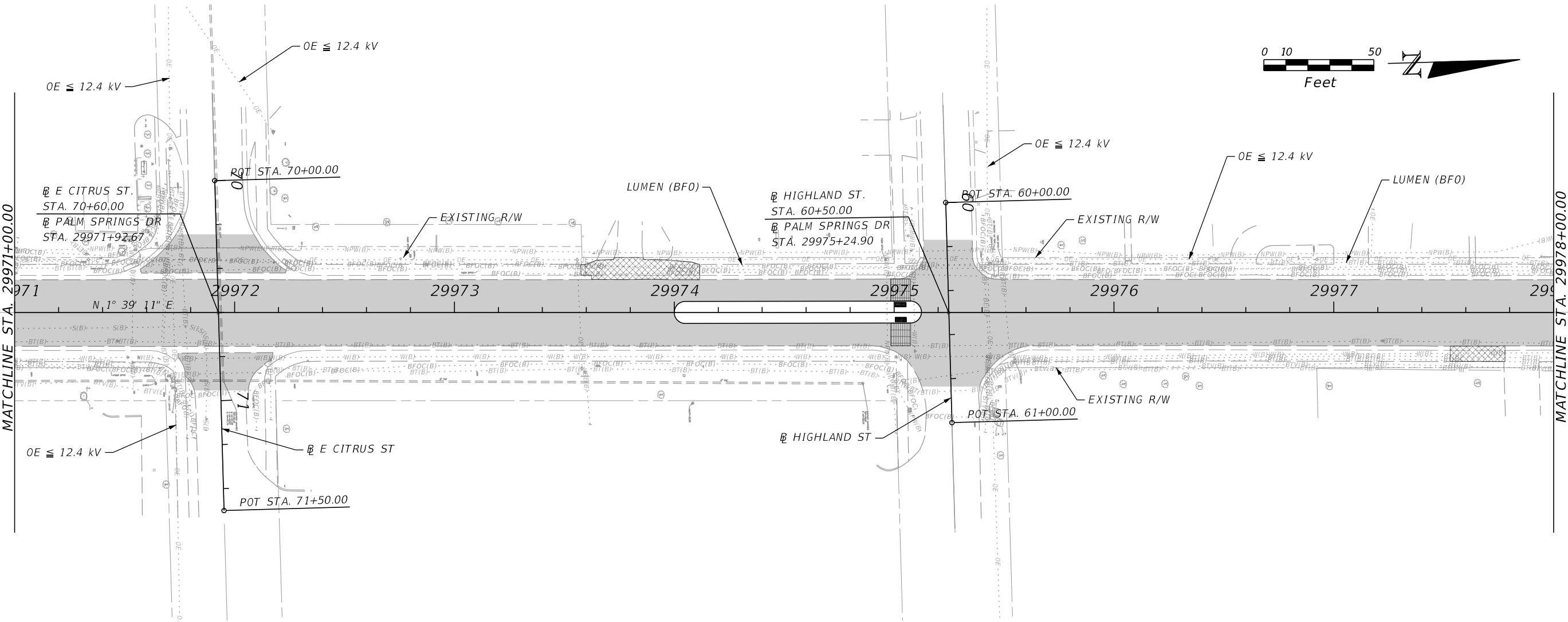
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LEGEND

REMOVE UTILITY

BURIED FIBER OPTIC

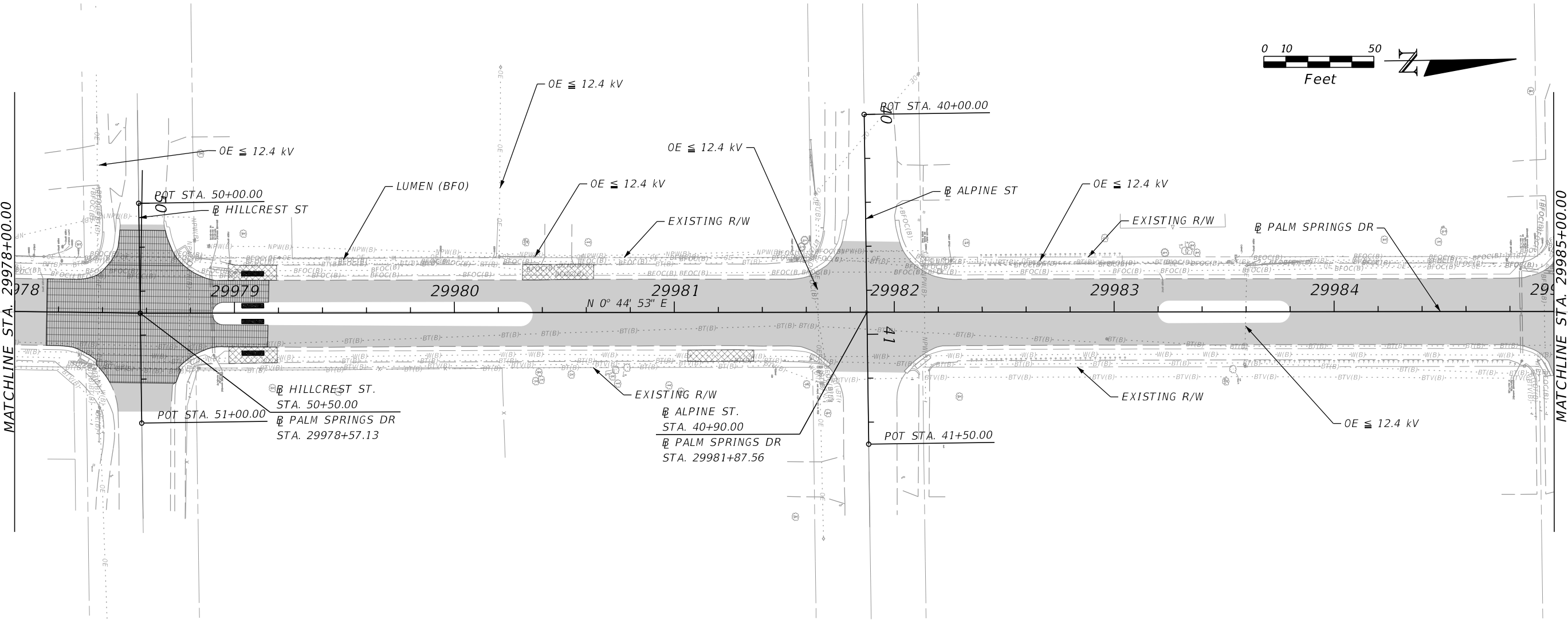


REVISIONS				MICHAEL R. HARTER LICENSE NUMBER: 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PKWY SUITE 180 MAITLAND, FL 32751	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		UTILITY ADJUSTMENTS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					PALM SPRINGS DR.	02307081		75

LEGEND

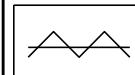
REMOVE UTILITY

BURIED FIBER OPTIC



REVISIONS				MICHAEL R. HARTER LICENSE NUMBER: 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PKWY SUITE 180 MAITLAND, FL 32751	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		UTILITY ADJUSTMENTS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					PALM SPRINGS DR.	02307081		76

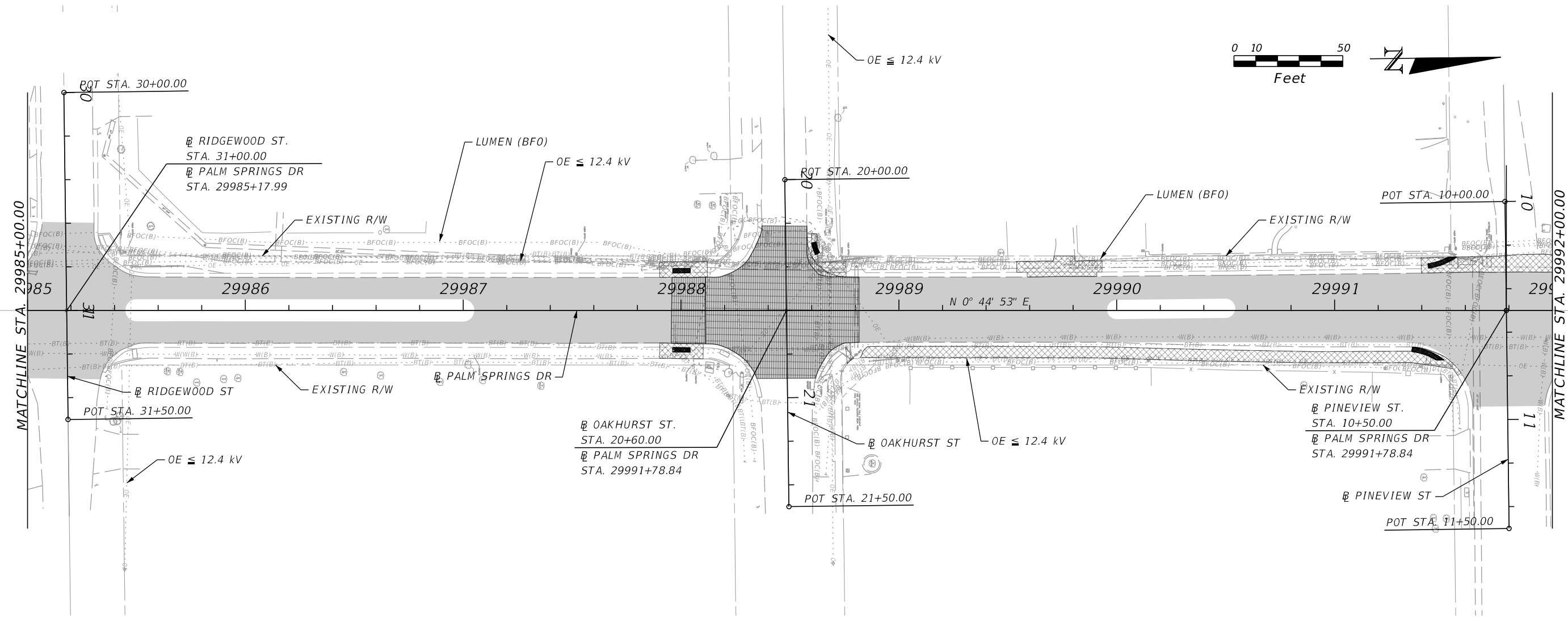
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LEGEND

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REVISIONS				MICHAEL R. HARTER LICENSE NUMBER: 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PKWY SUITE 180 MAITLAND, FL 32751	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		UTILITY ADJUSTMENTS	SHEET NO. 77
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					PALM SPRINGS DR.	02307081		

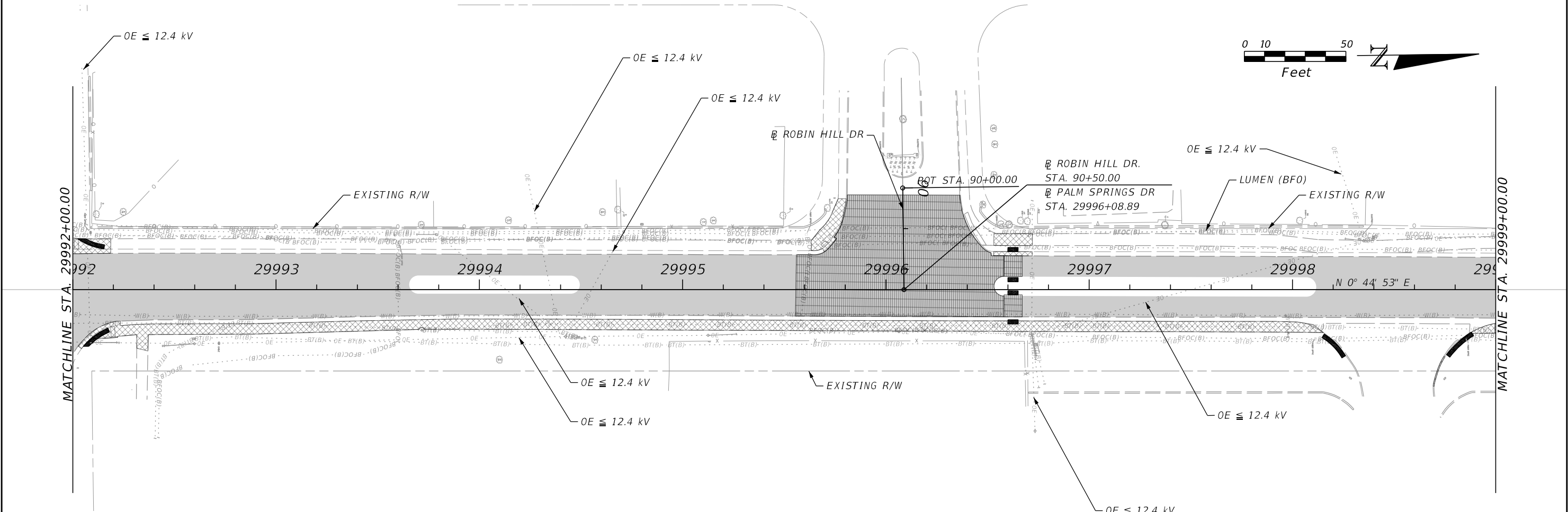
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LEGEND

REMOVE UTILITY

BURIED FIBER OPTIC



REVISIONS				MICHAEL R. HARTER LICENSE NUMBER: 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PKWY SUITE 180 MAITLAND, FL 32751	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		UTILITY ADJUSTMENTS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					PALM SPRINGS DR.	02307081		78

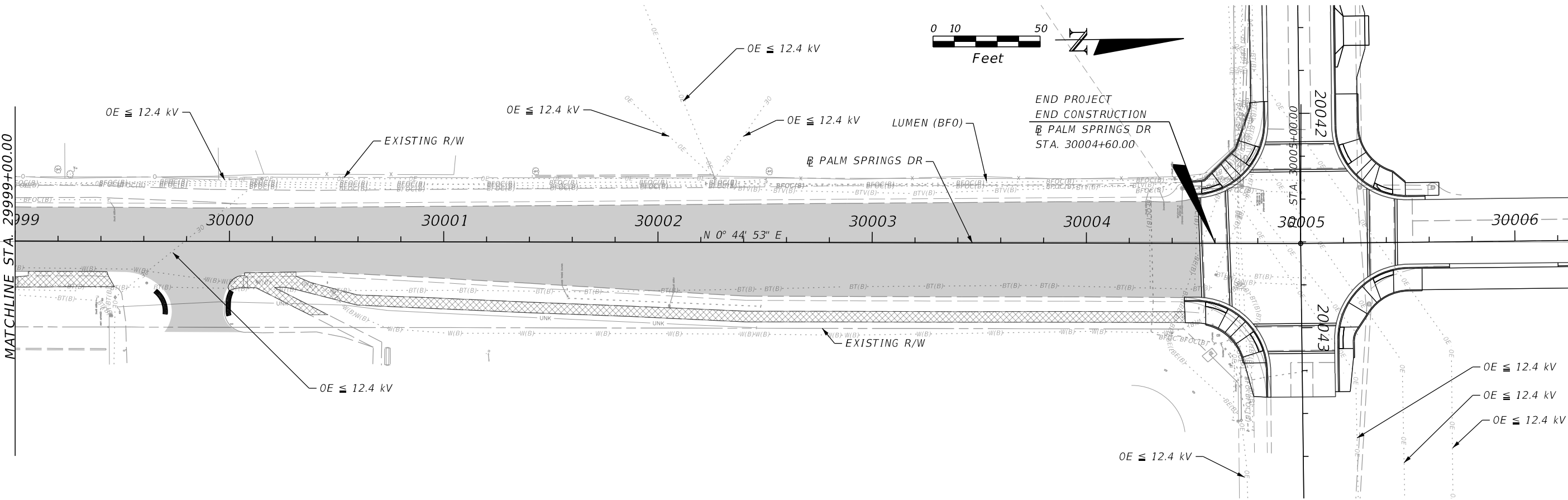
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LEGEND

REMOVE UTILITY

BURIED FIBER OPTIC

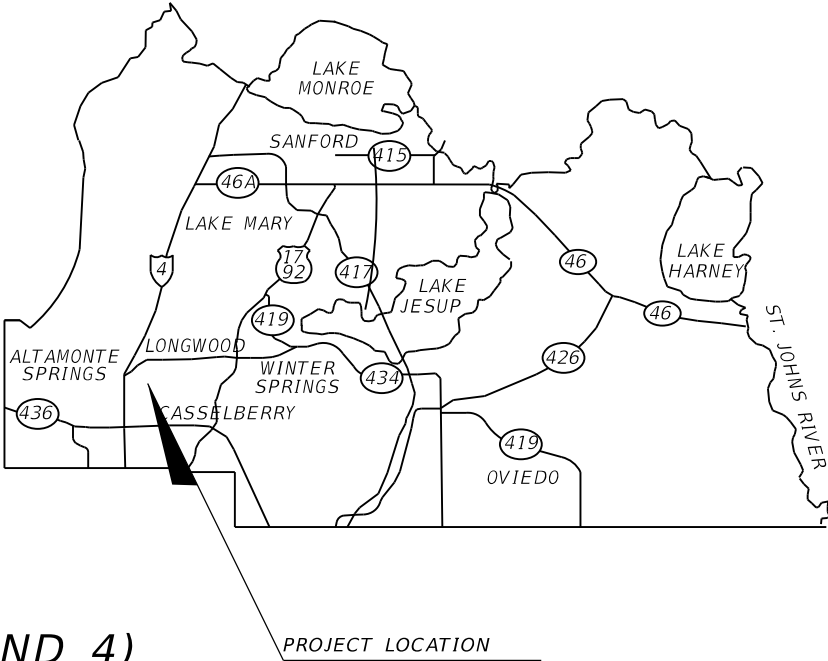


REVISIONS				MICHAEL R. HARTER LICENSE NUMBER: 81665 BRINDLEY PIETERS & ASSOCIATES, INC. 2600 MAITLAND CENTER PKWY SUITE 180 MAITLAND, FL 32751	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		UTILITY ADJUSTMENTS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					PALM SPRINGS DR.	02307081		79

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SEMINOLE COUNTY
ENGINEERING DIVISION

CONTRACT PLANS



INDEX OF LANDSCAPE PLANS

SHEET NO.	SHEET DESCRIPTION
LD-1	KEY SHEET
LD-2	SIGNATURE SHEET
LD-3	LANDSCAPE NOTES
LD-4	TABULATION OF QUANTITIES AND PLANT SCHEDULE
LD-5	PROJECT LAYOUT
LD-6 TO LD-8	LANDSCAPE PLANS
LD-9 TO LD-10	LANDSCAPE DETAILS

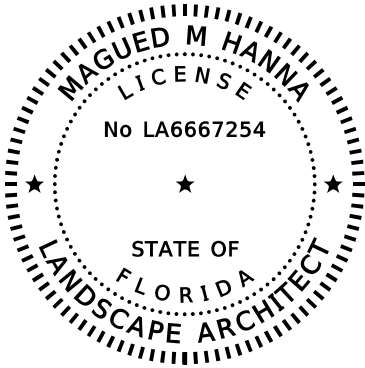
NORTH STREET PHASE 2 (60% SUBMITTAL)
SEMINOLE COUNTY CIP No. 02307081 (DISTRICT 3 AND 4)
LANDSCAPE PLANS

60% PLANS SUBMITTAL
APRIL 2025

LANDSCAPE PLANS
LANDSCAPE ARCHITECT OF RECORD:
MAGUED HANNA, R.L.A.
LICENSE NO. LA6667254
HDR ENGINEERING, INC.
315 E. ROBINSON STREET, SUITE 400
ORLANDO, FL 32801

COUNTY PROJECT MANAGER:
JOSEPH LOFASO, PE
PUBLIC WORKS DEPARTMENT
100 EAST 1st STREET
SANFORD, FL 32771

FISCAL YEAR	SHEET NO.
25-26	LD-01



THIS DOCUMENT HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

PRINTED COPIES OF THIS DOCUMENT ARE
NOT CONSIDERED SIGNED AND SEALED
AND THE SIGNATURE MUST BE VERIFIED
ON ANY ELECTRONIC COPIES.

HDR ENGINEERING, INC.
315 E. ROBINSON STREET
ORLANDO, FLORIDA 32801

THE ABOVE NAMED LANDSCAPE ARCHITECT SHALL BE RESPONSIBLE FOR THE
FOLLOWING SHEETS IN ACCORDANCE WITH RULE 61G10-11.001, F.A.C.

SHEET No.	DESCRIPTION
LD-1	KEY SHEET
LD-3	LANDSCAPE NOTES
LD-4	TABULATION OF QUANTITIES AND PLANT SCHEDULE
LD-5	PROJECT LAYOUT
LD-6 TO LD-8	LANDSCAPE PLANS
LD-9 TO LD-10	LANDSCAPE DETAILS

REVISIONS				 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 1		<i>SIGNATURE SHEET</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		LD-02
					PALM SPRINGS DR.	02307081		

\$USERS

\$DATES

\$TIMES

\$FILES

LANDSCAPE NOTES

1. FLAG ALL PLANTING LOCATIONS PRIOR TO INSTALLATION. ALL PLANTING LOCATIONS MUST BE APPROVED AND MAY BE ADJUSTED BY THE LANDSCAPE ARCHITECT.

2. ALL PLANT MATERIALS ARE SUBJECT TO INSPECTION AND APPROVAL BY THE LANDSCAPE ARCHITECT AT THE GROWING SITE, NURSERY OR HANDLING AREA DESIGNATED FOR THE PROJECT SITE.

3. THE CONTRACTOR IS RESPONSIBLE FOR PLANT QUANTITY TAKE-OFFS AND TO PROVIDE ALL PLANT MATERIAL REQUIRED AS SHOWN ON LANDSCAPE PLANS.

4. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL FACILITIES. LANDSCAPE MATERIAL SHALL BE ADJUSTED IN THE FIELD TO AVOID CONFLICTS WITH ANY UTILITY STRUCTURES, DRAINAGE STRUCTURES, DITCHES, UNDERDRAINS, DITCH BLOCK, STORMWATER MANAGEMENT FACILITIES, DRAINAGE DISCHARGE PATHS, TRAFFIC SIGNAGE, ITS CAMERAS, LIGHTING AND THEIR APPURTENANCES. IF A CONFLICT EXISTS, THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT PRIOR TO THE COMMENCEMENT OF ANY ACTIVITY. ANY COSTS TO REMOVE AND / OR REPAIR WORK PLACED THAT HAS NOT BEEN APPROVED BY THE LANDSCAPE ARCHITECT SHALL BE AT THE CONTRACTOR'S EXPENSE.
- IN CASE OF ANY DAMAGES THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT AND TEMPORARILY FIX THE DAMAGE IN LESS THAN FOUR HOURS OF OCCURRENCE AND FOLLOW WITH A PERMANENT FIX USING AN APPROVED METHOD.

5. PRE-EMERGENT GRANULAR HERBICIDE SHALL BE APPLIED TO ALL INDIVIDUAL MULCH RINGS. THE HERBICIDE ACTIVE INGREDIENTS SHALL BE SUITABLE FOR CONTROL OF ANNUAL AND PERENNIAL BROADLEAF WEEDS AND GRASSES. THE GRANULAR HERBICIDE SHALL BE APPLIED BY HAND AFTER PLANTING AND BEFORE PLACING MULCH. THE HERBICIDE SHALL BE APPLIED AT A RATE RECOMMENDED BY THE MANUFACTURER.

6. TREAT THE ROOT BALL OF ALL TREES IN THE UPPER 8-10 INCHES OF THE PLANTING HOLE WITH THE MANUFACTURER'S RECOMMENDED AMOUNT OF MYCORRHIZAL FUNGAL INOCULANTS, TO INCLUDE AT A MINIMUM THE FOLLOWING :
- ENDOMYCORRHIZAL FUNGUS.
- ECTOMYCORRHIZAL FUNGUS.
- FULVIC ACID.
- TRICHODERMA.
- PHOSPHATE SOLUBILIZATING, NITROGEN FIXING AND GROWTH PROMOTING BACTERIA.
- HUMIC ACID DERIVED FROM LEONARDITE.
- SEA KELP EXTRACT (ASCOPHYLLUM NODOSUM).
- YUCCA PLANT EXTRACT (YUCCA SCHIDIGERA).
- WATER HOLDING POLYMER (CROSS LINKED ACRYLAMIDE AND POTASSIUM ACRYLATE).
- PARTICLE SIZE : 0.8 MM TO 2.0 MM .
- PERCENT SOLUBLE : LESS THAN 0.05% .
- ABSORPTION RATE : 300 - 400 TIMES IN DISTILLED WATER.

SUBMIT SAMPLE OF MYCORRHIZAL INOCULANT FOR ACCEPTANCE BY THE LANDSCAPE ARCHITECT.

7. SEE PLANS FOR LANDSCAPE SETBACKS FROM UTILITIES. WHEN NO SETBACK IS NOTED THE FOLLOWING SHALL APPLY:	
FENCE	6'
DRAINAGE STRUCTURES	5'
OVERHEAD UTILITIES	10'
UNDERGROUND UTILITIES	5'
BACK OF GUARDRAIL	6'

8. TEST AND AMEND SOIL AS NEEDED TO PROVIDE OPTIMUM MEDIUM FOR PLANT GROWTH. SOIL AMENDMENTS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW PRIOR PLANTING.

9. THE CONTRACTOR SHOULD SUBMIT A STORM WATER PREVENTION POLLUTION PLAN (SWPP) TO THE COUNTY FOR APPROVAL PRIOR TO ANY CONSTRUCTION.

10. RE-SOD ALL SLOPE AREAS AROUND NEWLY PLANTED TREES AND DISTURBED AREAS WHERE EARTHWORK IS SPECIFIED TO PRESERVE TREE WATERING RINGS.

11. ALL EXISTING TREES SHALL REMAIN UNLESS OTHERWISE INDICATED.

12. UNIFORMLY APPLY A LAYER OF MIN. 3" DEPTH OF MULCH MATERIAL CONSISTING OF MINI PINE BARK NUGGET MULCH.

13. ALL LANDSCAPE MATERIAL SHALL BE A MINIMUM OF FLORIDA #1 ACCORDING TO THE CURRENT EDITION OF THE FLORIDA GRADES AND STANDARDS FOR NURSERY PLANTS.

14. ALL PLANT MATERIAL SHALL RECEIVE FERTILIZER (AGRIFORM TABLETS) AT THE TIME OF PLANTING PER MANUFACTURERS RECOMMENDATION.

15. ALL DEBRIS SHALL BE REMOVED FROM PLANTING BEDS PRIOR TO PLANTING. THIS INCLUDES BUT IS NOT LIMITED TO ROCK, GRAVEL, TRASH, WOOD, ETC.

16. REGRADE AND/OR REPLACE ANY SOD THAT IS DISTURBED BY THE CONSTRUCTION OF THIS PROJECT WITH THE SAME SOD TYPE.

REVISIONS				MAGUED HANNA, R.L.A. LICENSE NO. LA6667254 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242 HR	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		LANDSCAPE NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		LD-03
					PALM SPRINGS DR.	02307081		

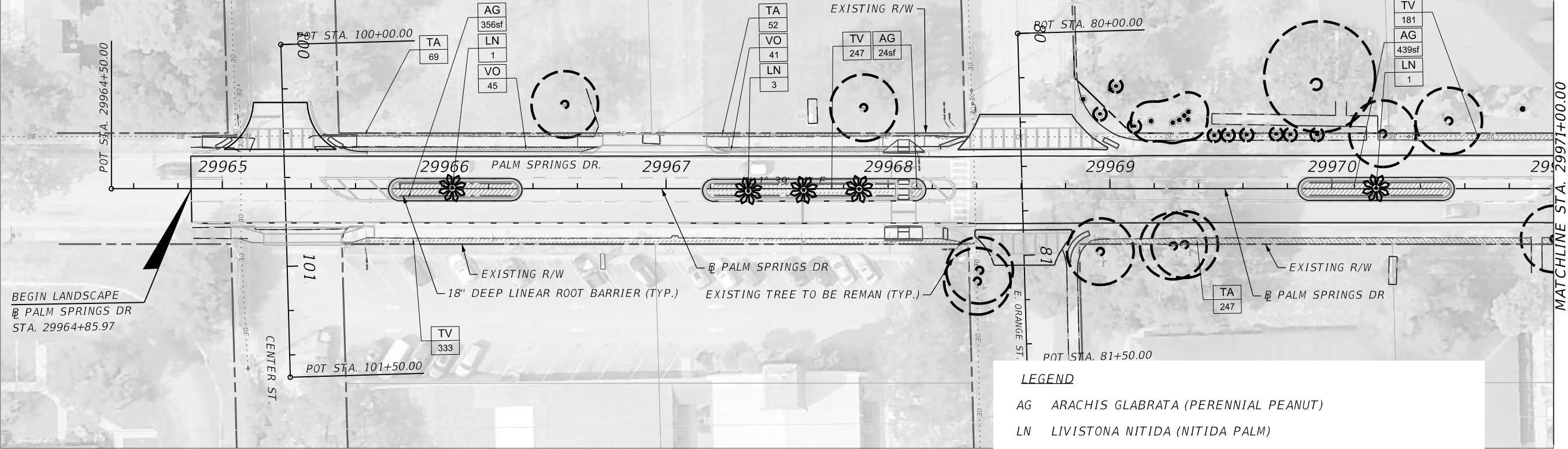
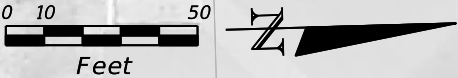
PLANT SCHEDULE												
SYM	DESCRIPTION	MAX MAINTAINED SIZE	REMARKS	UNIT	SHEET NUMBERS						GRAND TOTAL	
					LD-5		LD-6		LD-7			
					PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
	Small Plants											
AG	Arachis glabrata - Perennial Peanut, Carpet Roll Sod			SF	839		2,086		15,186		18,111	
JX	Juniperus x 'Grey Owl' / Grey Owl Juniper,3 Gal, 36" OC	18"		EA					57		57	
TA	Trachebspermum asiaticum / Asiatic Jasmine,3 Gal, 18" O.C.	18"		EA	1,096		755		806		2,657	
TV	Tulbaghia violacea - Society Garlic, 1 Gal, 18" OC	18"		EA	1,613		1,575		2,717		5,905	
VO	Viburnum odoratissimum - Sweet Viburnum,3 Gal, 24" OC	18"		EA	86				578		664	
ZI	Zamia integrifolia / Coontie,7 Gal, 36" OC	18"		EA					134		134	
	Large Plants											
LN	Livistona nitida - Nitida Palm, 12' CT			EA	8		6		5		19	
MG	Magnolia grandiflora - Southern Magnolia, 12'-14'H, 6' SPRD, FTG			EA			3				3	
QV	Quercus virginiana - Live Oak, 16'H, 8' SPRD, Container Grown, 3" Cal.		8' CT	EA					24		24	

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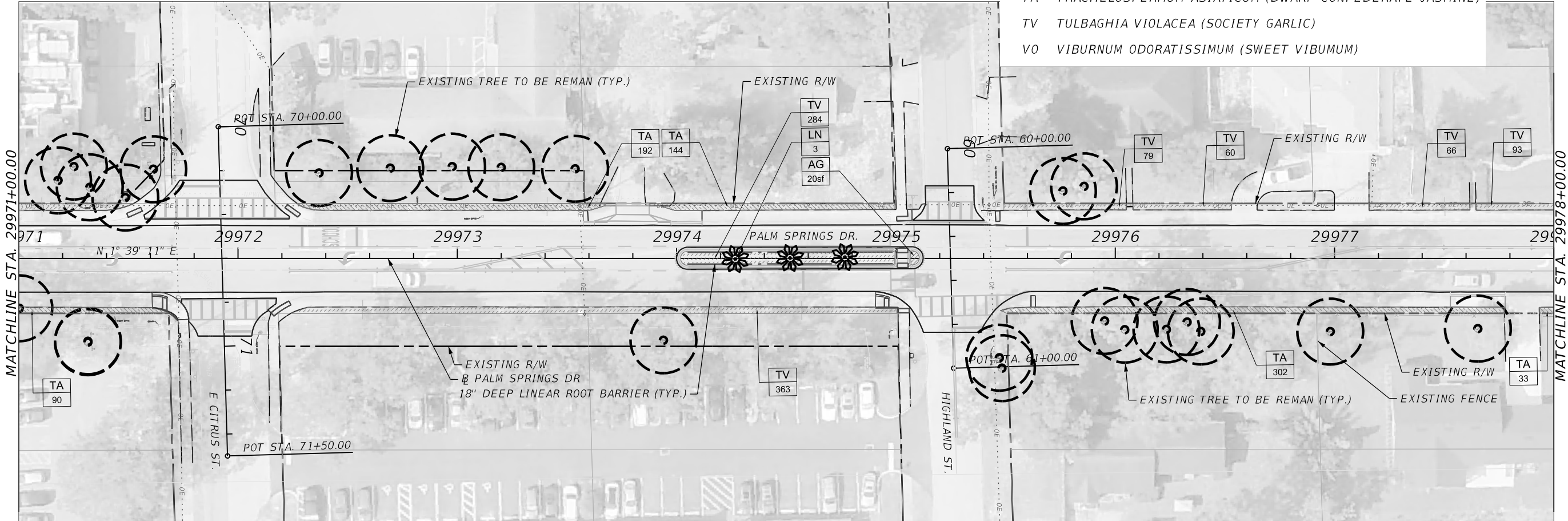


REVISIONS				MAGUED HANNA, R.L.A. LICENSE NO. LA6667254 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242 HR	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		PROJECT LAYOUT	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					
					ROAD COUNTY CIP No.			LD-05
					PALM SPRINGS DR. 02307081			

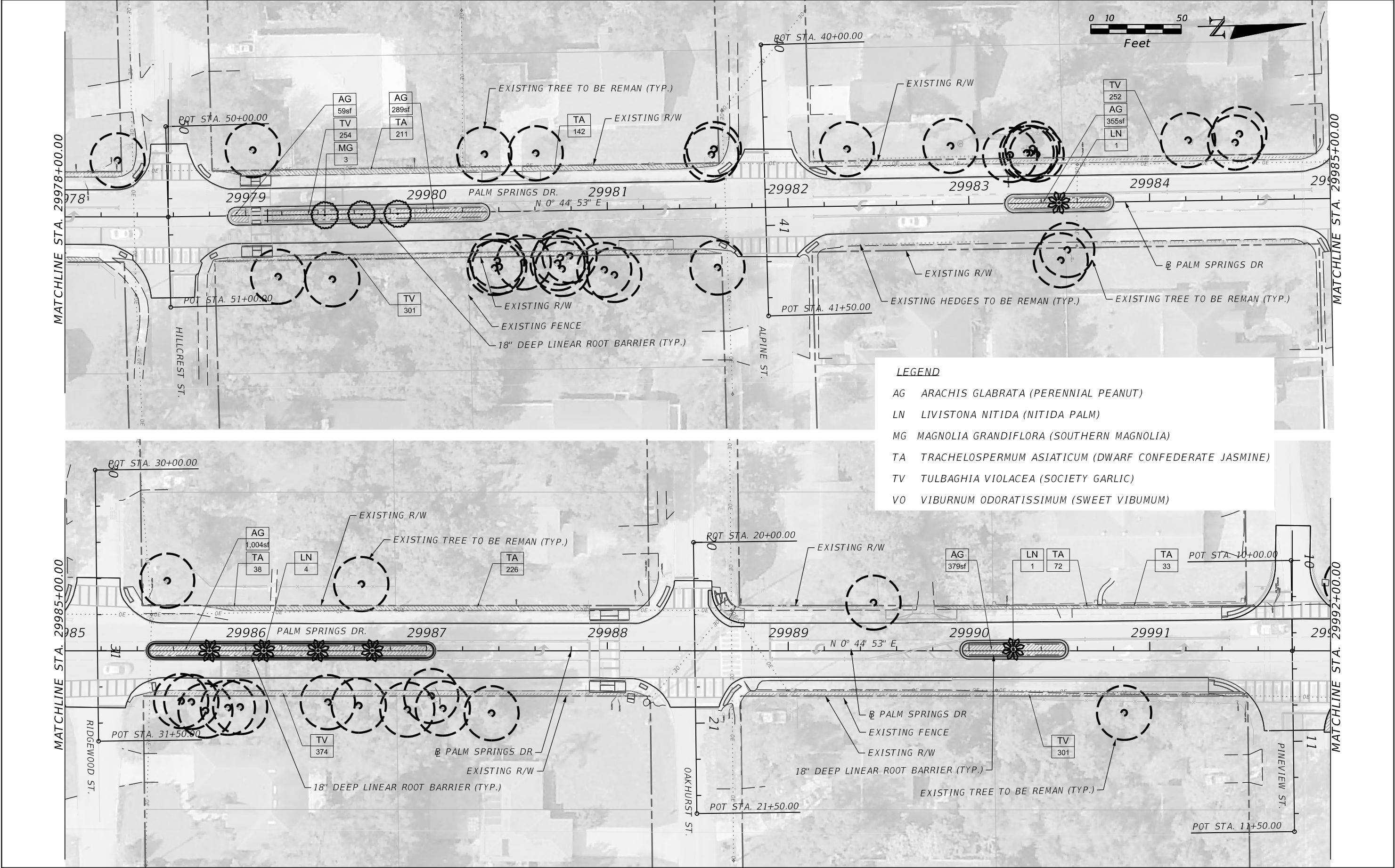
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- LEGEND**
- AG ARACHIS GLABRATA (PERENNIAL PEANUT)
 - LN LIVISTONA NITIDA (NITIDA PALM)
 - TA TRACHELOSPERMUM ASIATICUM (DWARF CONFEDERATE JASMINE)
 - TV TULBAGHIA VIOLACEA (SOCIETY GARLIC)
 - VO VIBURNUM ODORATISSIMUM (SWEET VIBUMUM)



REVISIONS				MAGUED HANNA, R.L.A. LICENSE NO. LA6667254 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242 	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		LANDSCAPE PLANS (1)	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		LD-06
					PALM SPRINGS DR.	02307081		



LEGEND

AG ARACHIS GLABRATA (PERENNIAL PEANUT)

LN LIVISTONA NITIDA (NITIDA PALM)

MG MAGNOLIA GRANDIFLORA (SOUTHERN MAGNOLIA)

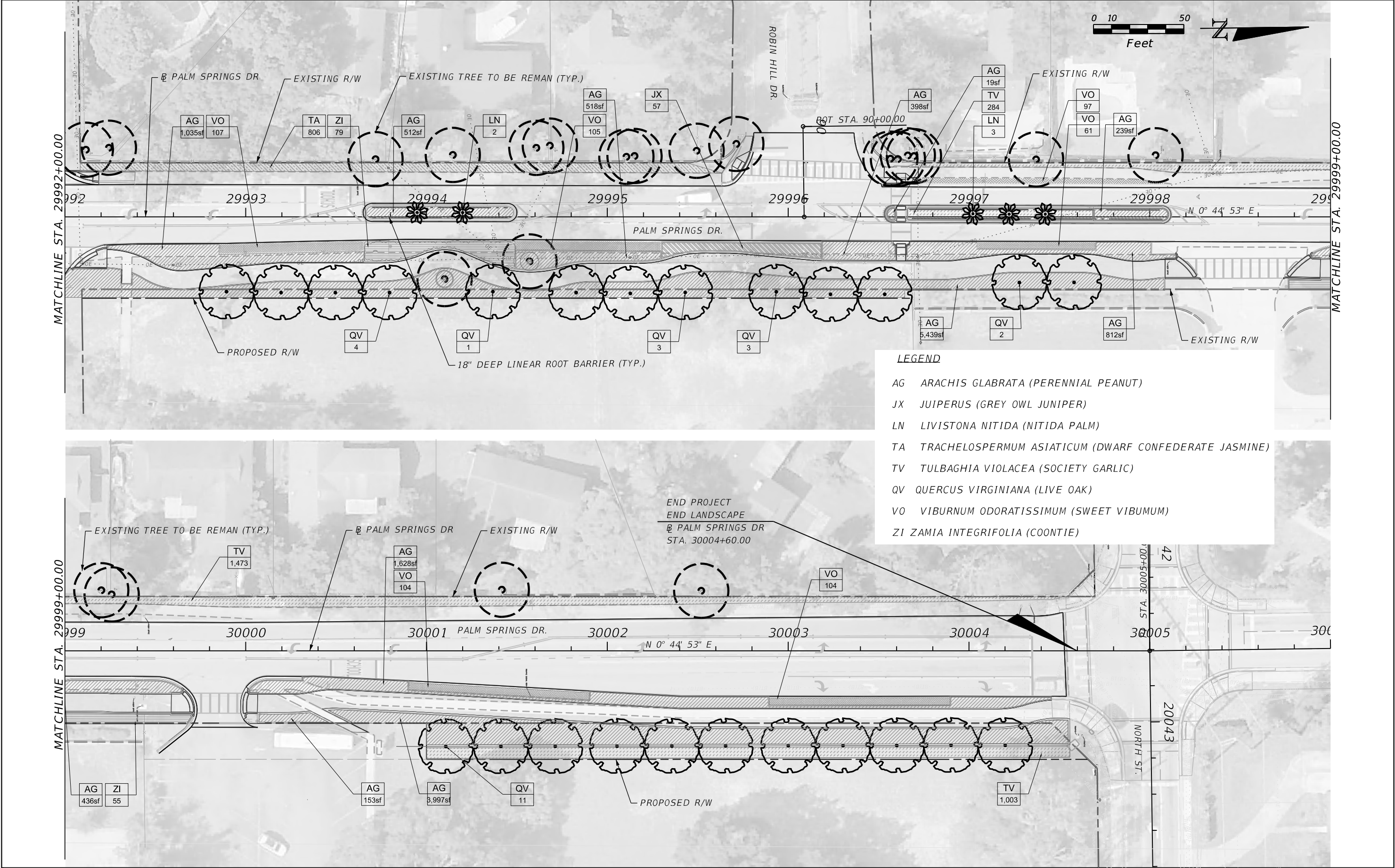
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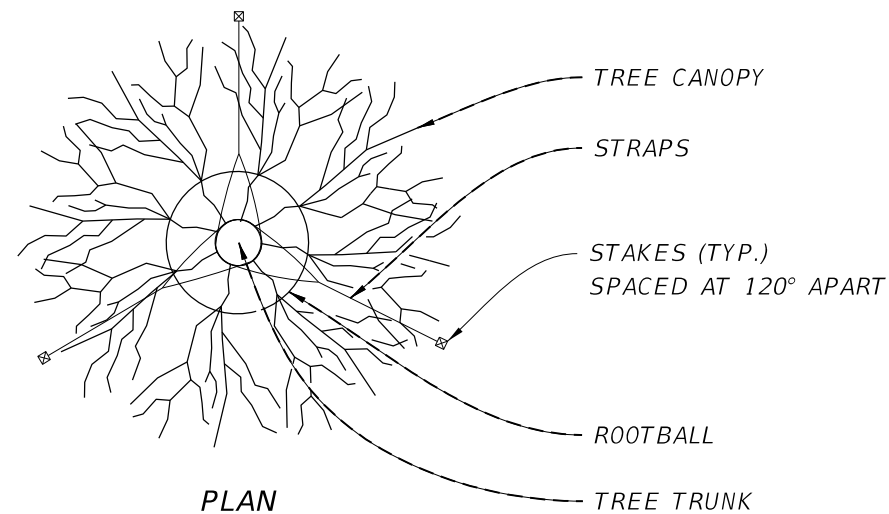
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DATE	DESCRIPTION	DATE	DESCRIPTION					LD- 07

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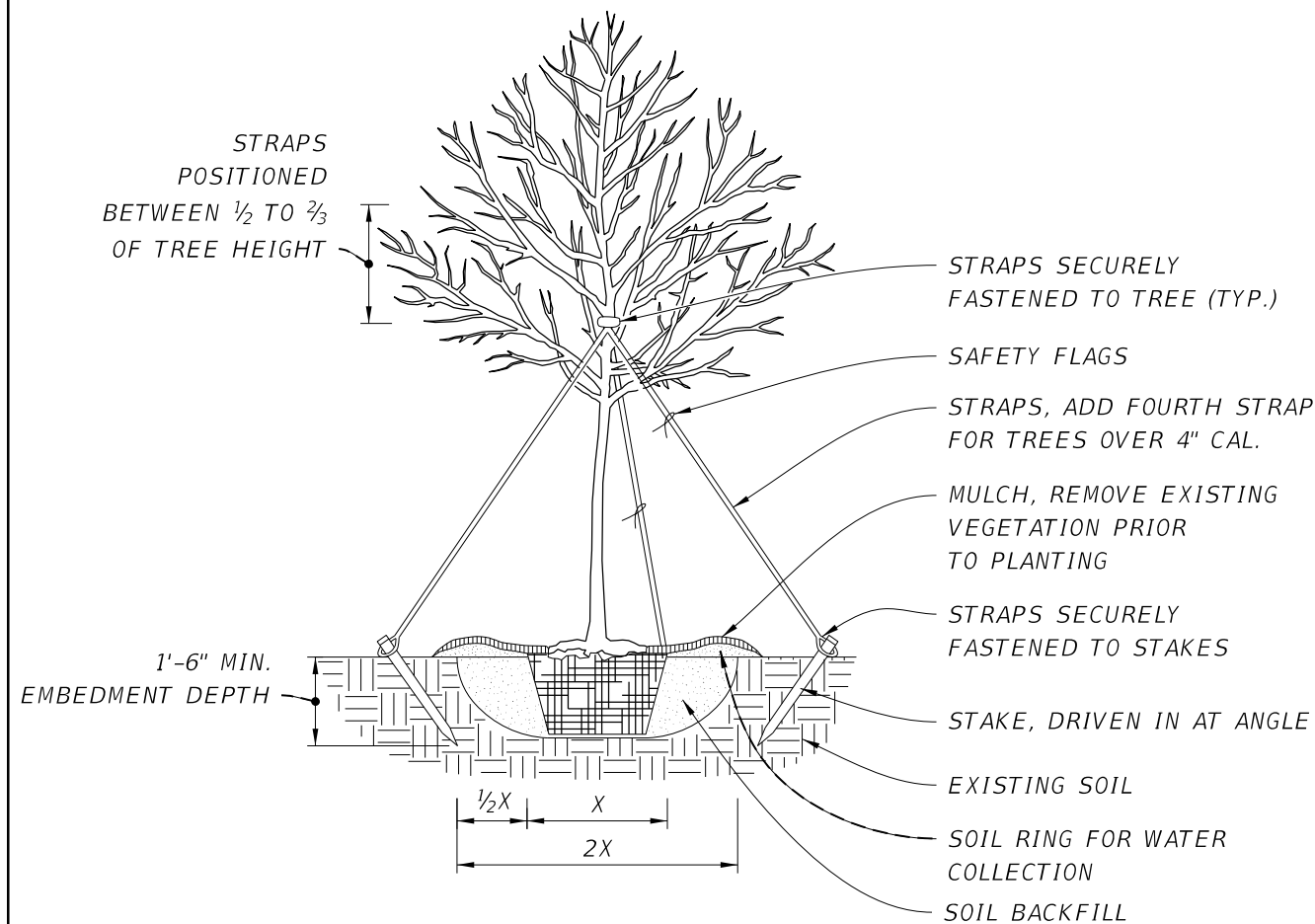


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DATE	DESCRIPTION	DATE	DESCRIPTION						
									LD-08

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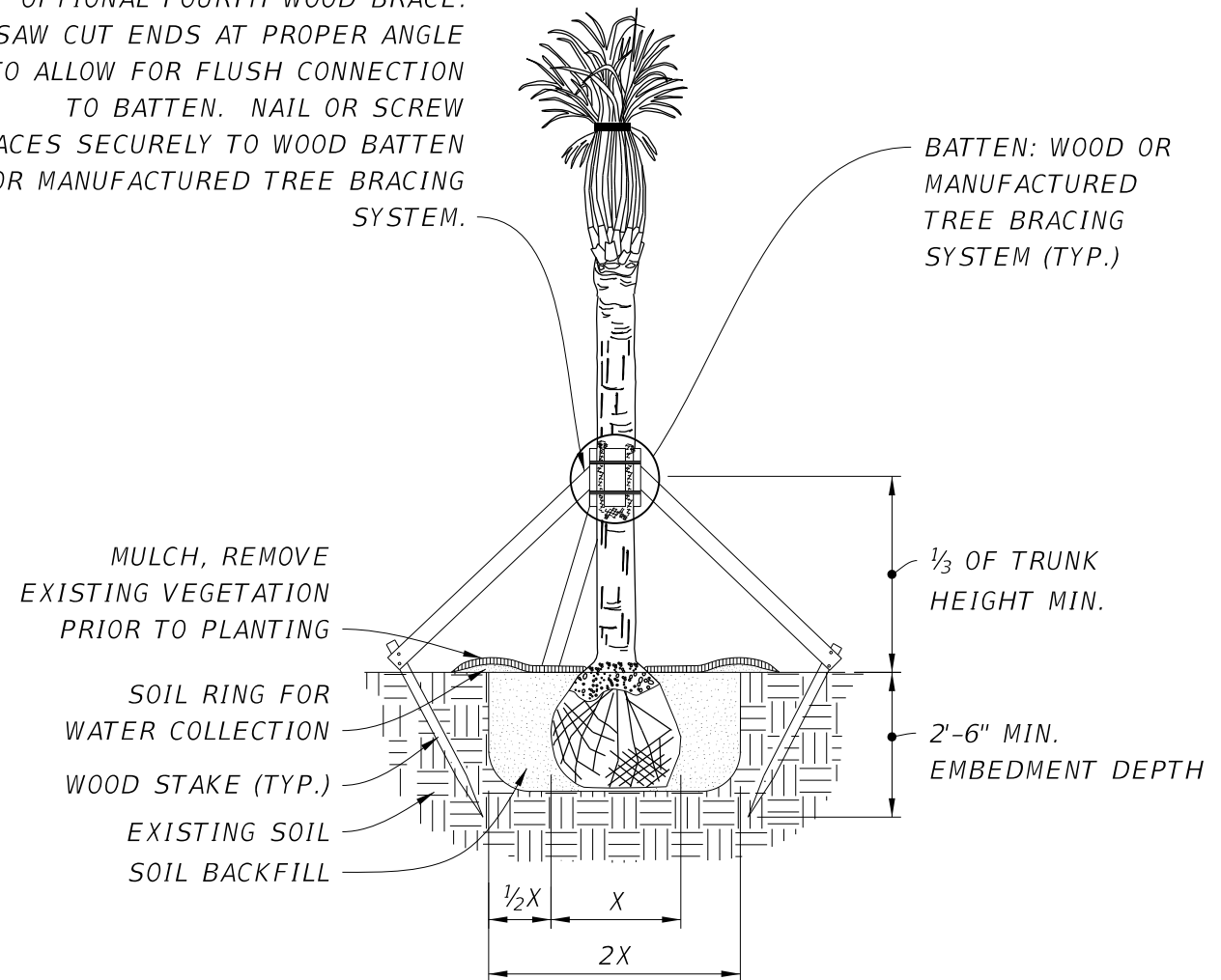


PLAN



ELEVATION

MINIMUM OF THREE WOOD BRACES
SPACED AT 120° APART WITH
OPTIONAL FOURTH WOOD BRACE.
SAW CUT ENDS AT PROPER ANGLE
TO ALLOW FOR FLUSH CONNECTION
TO BATTEN. NAIL OR SCREW
BRACES SECURELY TO WOOD BATTEN
OR MANUFACTURED TREE BRACING
SYSTEM.



ELEVATION

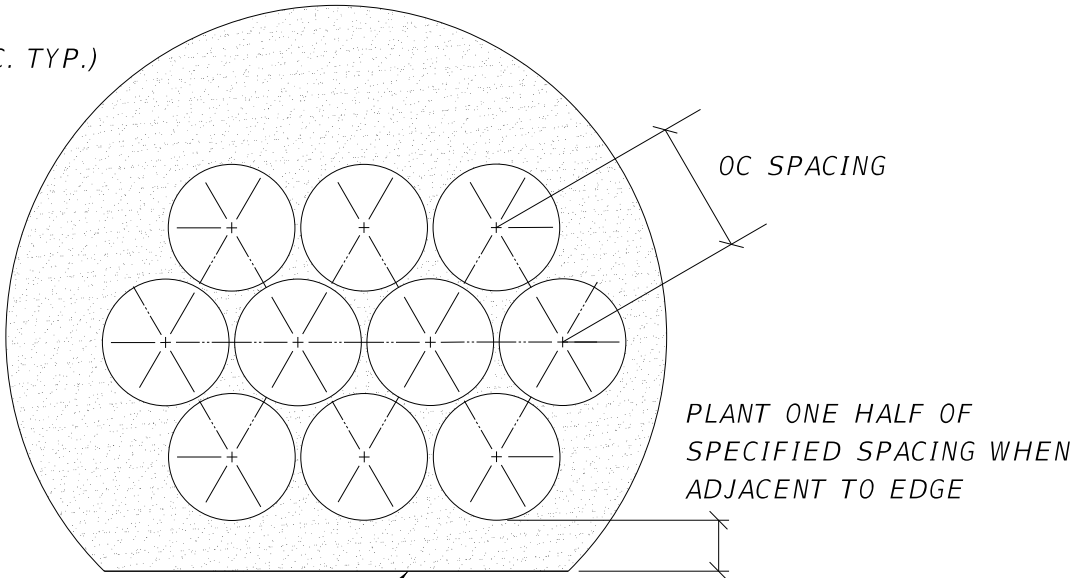
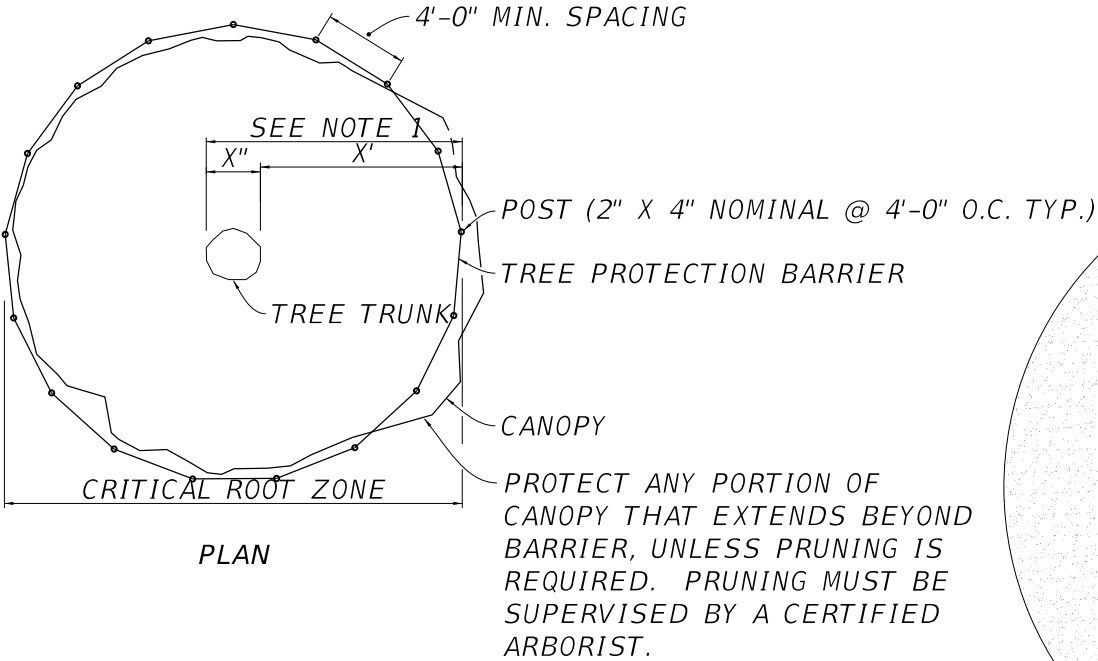
NOTE: MAY BE USED ON LARGE CALIPER CANOPY TREES, ADJUST BANDING EVERY
6 MONTHS OR AS NEEDED (FOR FAST GROWING SPECIES) TO PREVENT GIRDLING.

PALM PLANTING

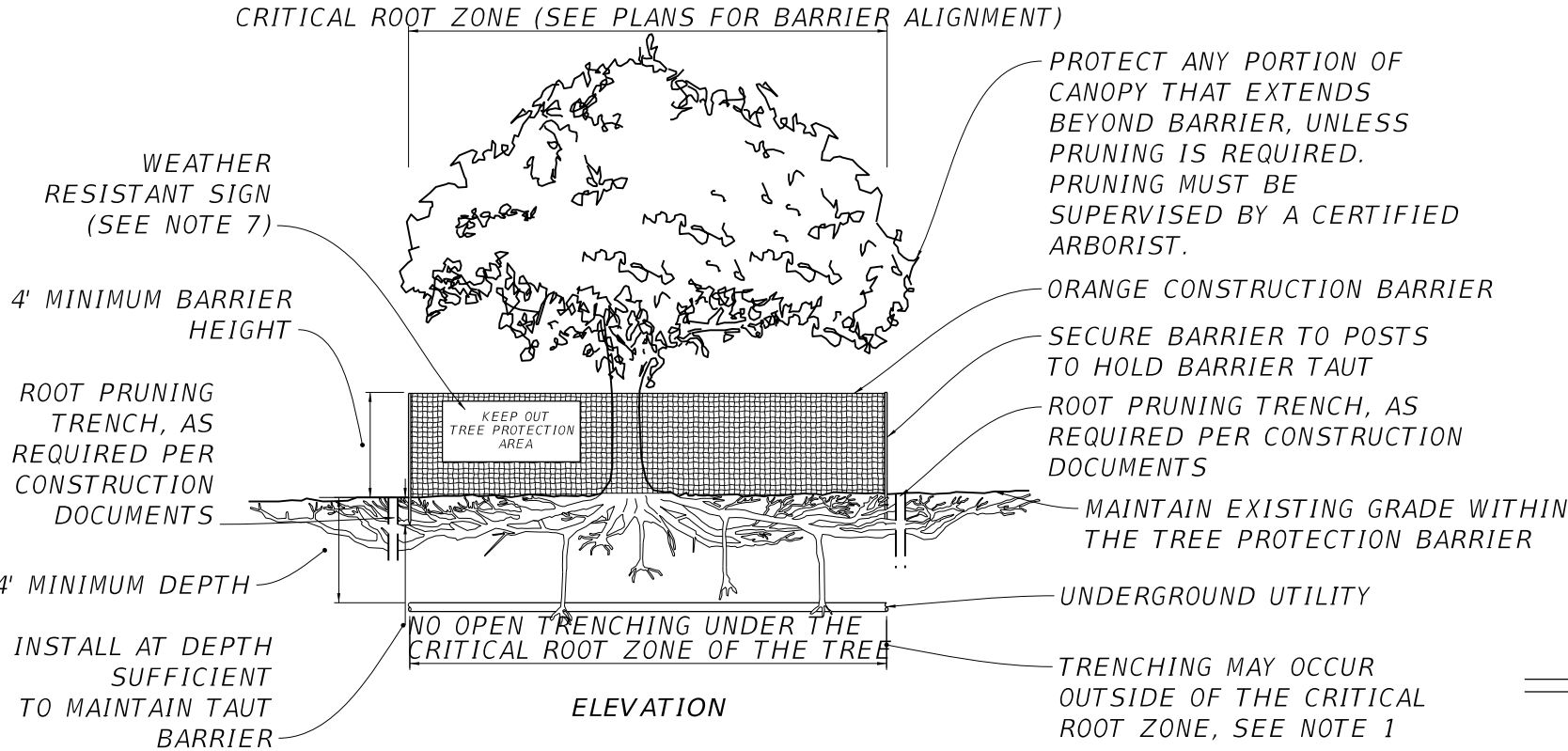
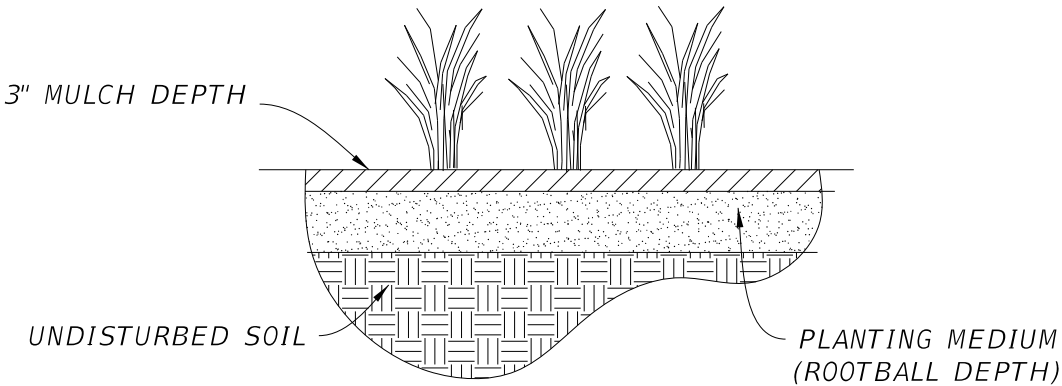
2 1/2" TO 6" CALIPER TREE PLANTING

REVISIONS				MAGUED HANNA, R.L.A. LICENSE NO. LA6667254 315 E. ROBINSON ST. SUITE 400 ORLANDO, FL 32801 PHONE 407.420.4200 FAX 407.420.4242	SEMINOLE COUNTY ENGINEERING DIVISION ROLLING HILLS AREA ROADWAYS PHASE 2		LANDSCAPE DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD	COUNTY CIP No.		
					PALM SPRINGS DR.	02307081		LD-09

- NOTES:
1. CRITICAL ROOT ZONE: EXTENDS IN ALL DIRECTIONS FROM TRUNK OF TREE TO A DISTANCE EQUAL TO ONE FOOT PER INCH OF TRUNK DIAMETER AT BREAST HEIGHT.
 2. STAGING, STORAGE, DUMPING, WASHING AND OPERATION OF EQUIPMENT IS NOT PERMITTED WITHIN THE LIMITS OF THE TREE PROTECTION BARRIER, INCLUDING DURING BARRIER INSTALLATION.
 3. INSTALL ALL TREE PROTECTION PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REMOVE WHEN DIRECTED BY THE ENGINEER. MAINTAIN PROTECTION AT ALL TIMES.
 4. FOR CLOSELY SPACED GROUPS OF TREES, PLACE THE TREE PROTECTION BARRIER AROUND THE ENTIRE GROUP.
 5. INSPECT TRUNK PROTECTION AND TREE QUARTERLY TO PREVENT GIRDLING. ADJUST BANDS TO ALLOW TREE GROWTH AS NEEDED.
 6. SEE PLANS FOR ANY ADDITIONAL REQUIREMENTS OR MODIFICATIONS WITHIN THE TREE PROTECTION AREA.
 7. PLACE WEATHER RESISTANT SIGN EVERY 50' ALONG THE BARRIER, WITH 6" MINIMUM TEXT HEIGHT AND PROVIDE TEXT IN ENGLISH AND SPANISH. SIGN SHOULD READ " KEEP OUT TREE PROTECTION AREA".
 8. ALTERNATE TREE PROTECTION SYSTEMS APPROVED BY THE ENGINEER MAY BE USED IN LIEU OF THE TREE PROTECTION BARRIER DETAILED HERE AS LONG AS THE CRITICAL ROOT ZONE IS PROTECTED.
 9. THE CRITICAL ROOT ZONE MAY BE REDUCED, IN THE FIELD, BY A CERTIFIED ARBORIST OR LANDSCAPE ARCHITECT.



- NOTES:
1. ALL GROWDCOVER SHALL BE PLANTED AT OC SPACING AS SPECIFIED ON THE PLANT SCHEDULE SHEET.
 2. LOCATE GROWDCOVER ONE HALF OF SPECIFIED SPACING DISTANCE FROM ANY CURB, SIDEWALK, OR OTHER HARD SURFACE, UNLESS OTHERWISE SPECIFIED.



TREE PROTECTION BARRIER

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