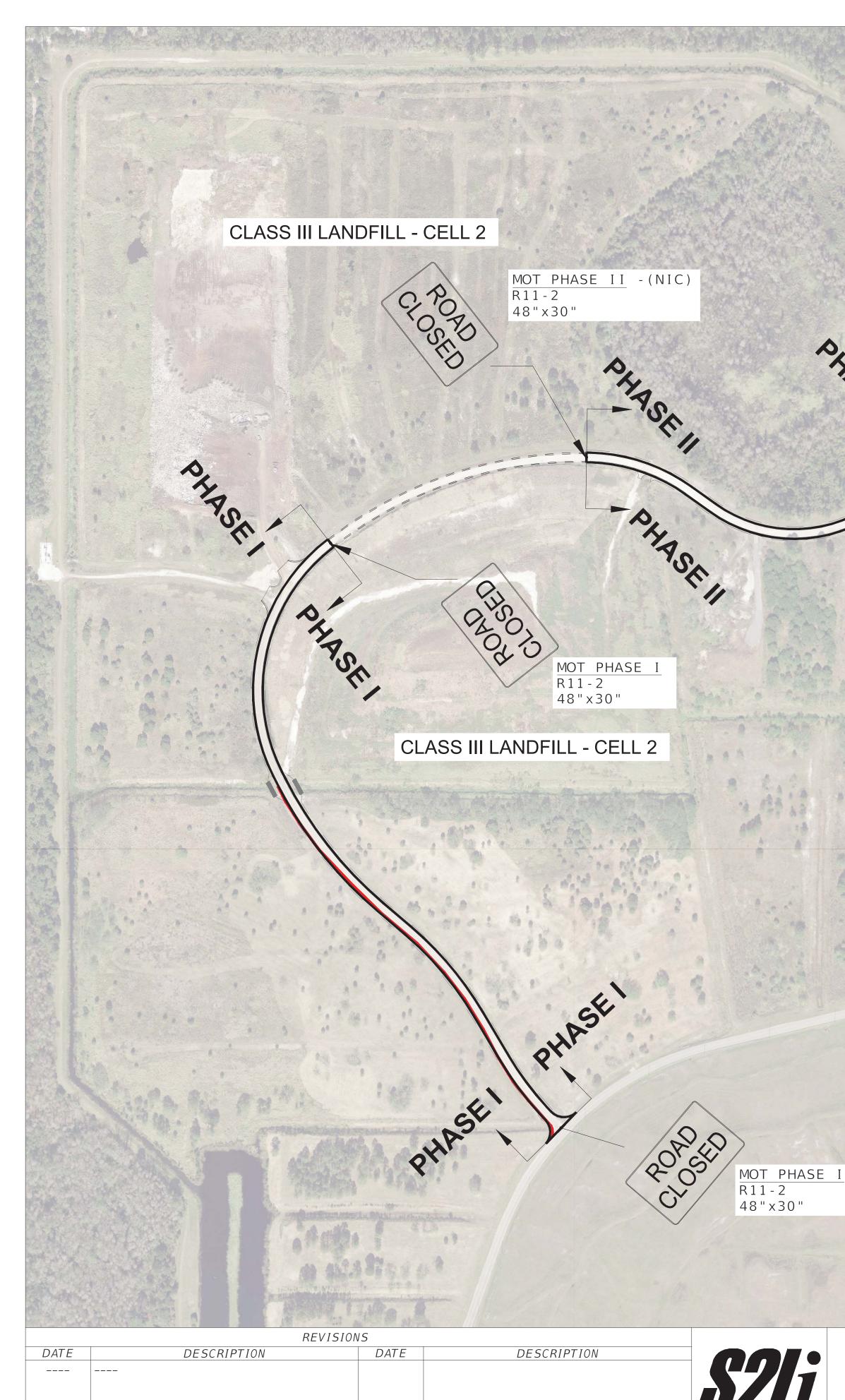


4/19/2019 10:10:27 AM T:\2017\2017.109.01 - Orange County Landfill Roadway\CAD\Roadway\KEYSRD01.dwg



MOT PHASE II - (NIC) R11-2 48"x30"

CLOSED CLASS III LANDFILL

MOT GENERAL NOTES:

- STANDARDS, INDEX 102-600 SERIES.
- 3. THE PROPOSED SPEED LIMIT OF 15 MPH MUST BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
- 4. NIC = NOT IN CONTRACT



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ASPHALT MILLINGS STORAGE AREA

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT DESIGN

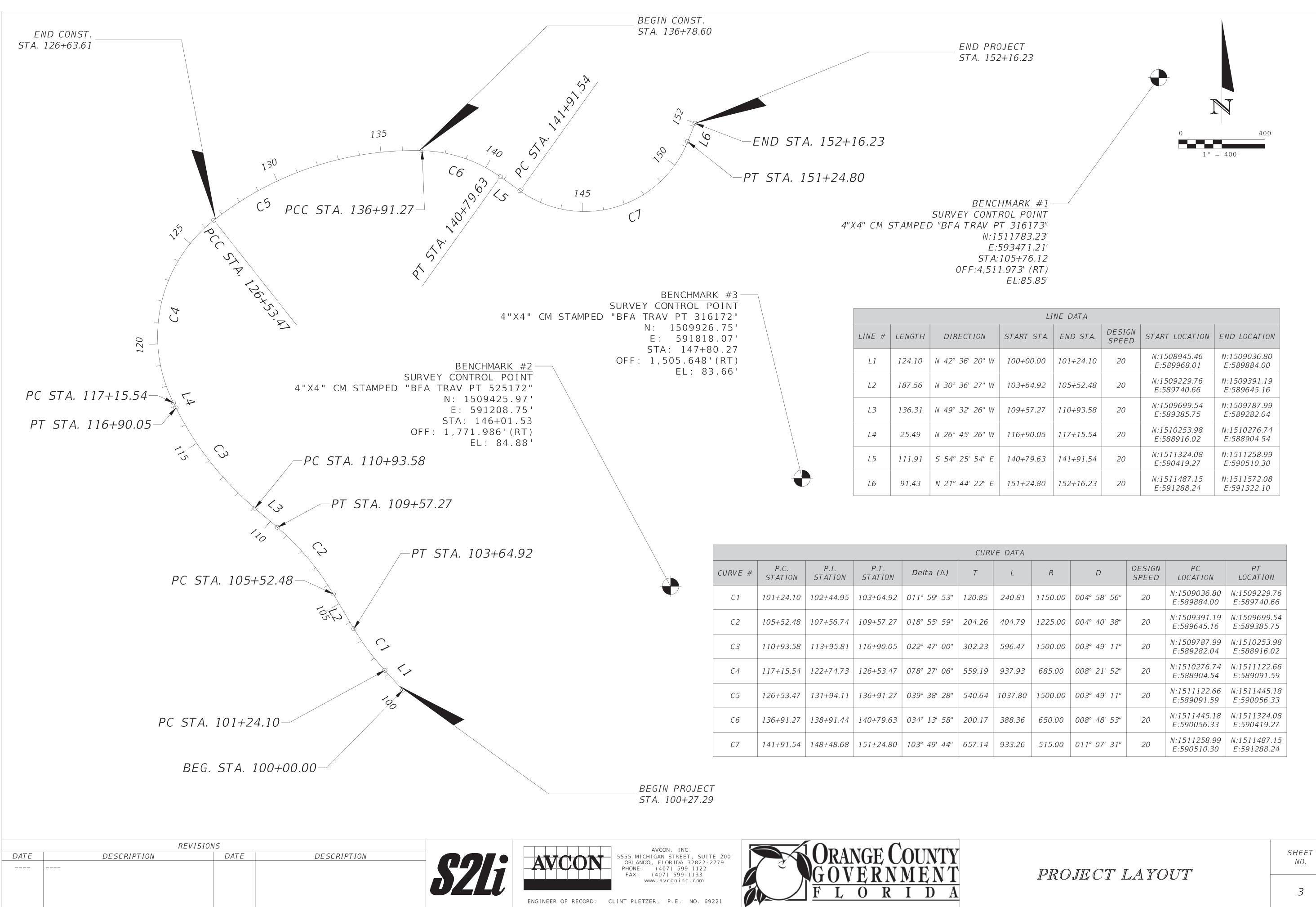
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2. THERE ARE NO TIME RESTRICTIONS FOR LANE CLOSURES; HOWEVER, ONLY ONE ENTRANCE OF HAUL ROAD MAY BE CLOSED AS A TIME.

MAINTENANCE OF TRAFFIC

SHEET NO.

2



4/19/2019 10:27:42 AM

:85.85'				
LI	NE DATA			
RT STA.	END STA.	DESIGN SPEED	START LOCATION	END LOCATI
)+00.00	101+24.10	20	N:1508945.46 E:589968.01	N:1509036.8 E:589884.0
3+64.92	105+52.48	20	N:1509229.76 E:589740.66	N:1509391.1 E:589645.1
9+57.27	110+93.58	20	N:1509699.54 E:589385.75	N:1509787.9 E:589282.0
5+90.05	117+15.54	20	N:1510253.98 E:588916.02	N:1510276.7 E:588904.5
)+79.63	141+91.54	20	N:1511324.08 E:590419.27	N:1511258.9 E:590510.3
+24.80	152+16.23	20	N:1511487.15	N:1511572.(

ΤΑ					
	R	D	DESIGN SPEED	PC LOCATION	PT LOCATION
.81	1150.00	004° 58' 56"	20	N:1509036.80 E:589884.00	N:1509229.76 E:589740.66
79	1225.00	004° 40' 38"	20	N:1509391.19 E:589645.16	N:1509699.54 E:589385.75
47	1500.00	003° 49' 11"	20	N:1509787.99 E:589282.04	N:1510253.98 E:588916.02
93	685.00	008° 21' 52"	20	N:1510276.74 E:588904.54	N:1511122.66 E:589091.59
.80	1500.00	003° 49' 11"	20	N:1511122.66 E:589091.59	N:1511445.18 E:590056.33
36	650.00	008° 48' 53"	20	N:1511445.18 E:590056.33	N:1511324.08 E:590419.27
26	515.00	011° 07' 31"	20	N:1511258.99 E:590510.30	N:1511487.15 E:591288.24

ITEM	DESCRIPTION	UNIT	QUANTITY
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-10-3	SEDIMENT BARRIER	LS	1
110-1-1	CLEARING & GRUBBING	LS	1
120-1	REGULAR EXCAVATION	LS	1
120-6	EMBANKMENT	LS	1
160-4	TYPE B STABILIZATION (MIN. LBR 40) (12")	LS	1
285-7-08	LIMEROCK (MIN LBR 100) (9")	LS	1
334-1-52	SUPERPAVE ASPH CONC, TRAFFIC B, PG 76-22	LS	1
400-4-1	CONCRETE CLASS IV, CULVERTS	LS	1
425-1-501	INLETS, DITCH BOTTOM, TYPE A, <10'	LS	1
425-2-93	MANHOLES, J8, PARTIAL	LS	1
430-94-2	DESILTING PIPE, 25" – 36"	LS	1
430-174-124	PIPE CULVERT, RCP, 24" SD	LS	1
430-174-218	PIPE CULVERT, ERCP, 14"x23" SD	LS	1
430-984-625	MITERED END SECTION, ERCP 14"x23" SD	LS	1
521-72-3	SHOULDER CONCRETE BARRIER, RIGID-SHOULDER"	LS	1
530-3-4	RIPRAP, RUBBLE, F&I, DITCH LINING	LS	1
544-75-1	CRASH CUSHION	LS	1
570-1-1	PERFORMANCE TURF	LS	1
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	LS	1
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	LS	1
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	LS	1
900-1	AS-BUILT PLANS	LS	1
900-2	INDEMNIFICATION	LS	1

NOTES: PROJECT IS LUMP SUM. PAY ITEM NUMBERS ARE PROVIDED TO REFERENCE FDOT SPECIFICATIONS. FDOT DIVISION TWO SPECIFICATIONS APPLY FOR THIS PROJECT, HOWEVER, DIVISION ONE SPECIFICATIONS ARE PROVIDED AS A PART OF THIS PROJECT'S SPECIFICATIONS PACKAGE.

	REV	ISIONS		
DATE	DESCRIPTION	DATE	DESCRIPTION	
				52

SUMMARY	OF	ΡΑΥ	ITEMS



AVCON, INC. 5555 MICHIGAN STREET, SUITE 200 ORLANDO, FLORIDA 32822-2779 PHONE:(407) 599-1122 FAX:(407) 599-1133 www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

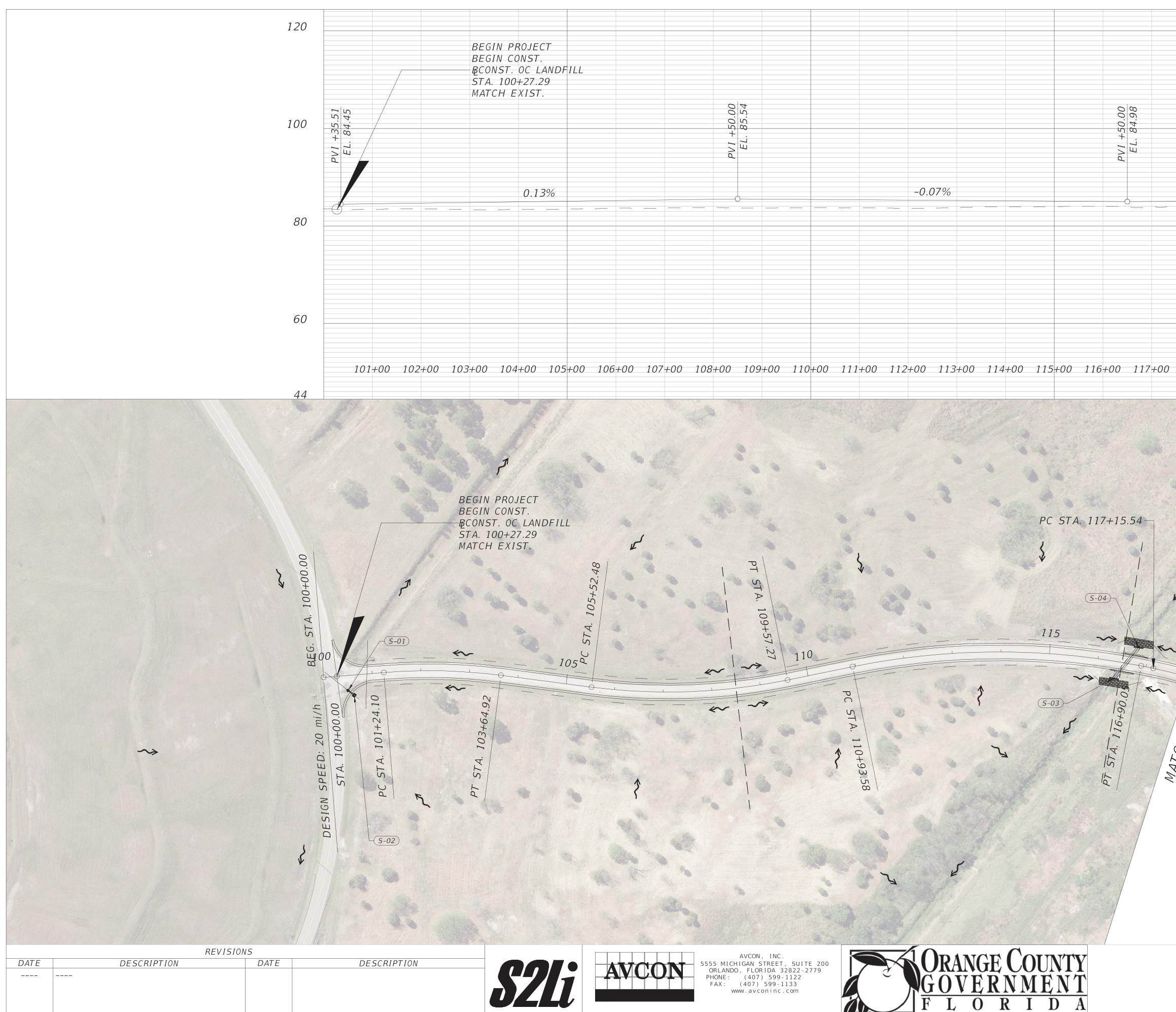


WINARDI, CHRIS



SHEET NO.

4



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AVCON, INC. 5555 MICHIGAN STREET, SUITE 200 ORLANDO, FLORIDA 32822-2779 PHONE: (407) 599-1122 FAX: (407) 599-1133 www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

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0 WINARDI, CHRIS

4/19/2019 10:29:04 AM

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PC STA. 117+15.54-

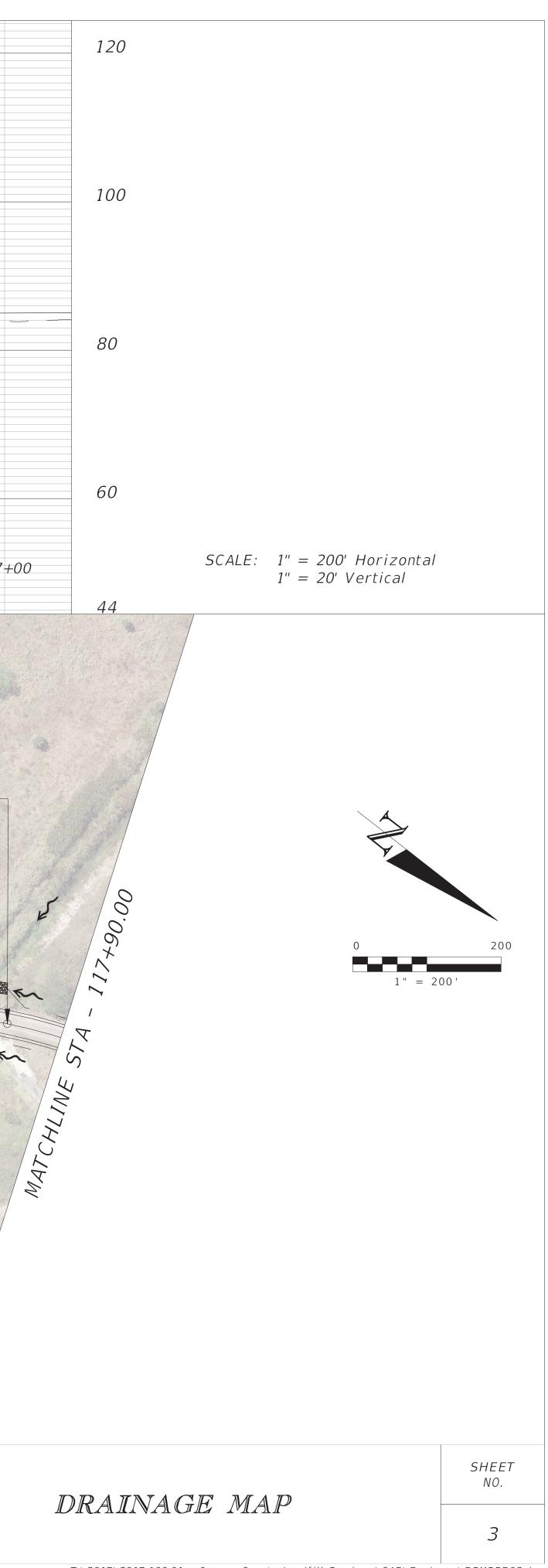
(5-04)

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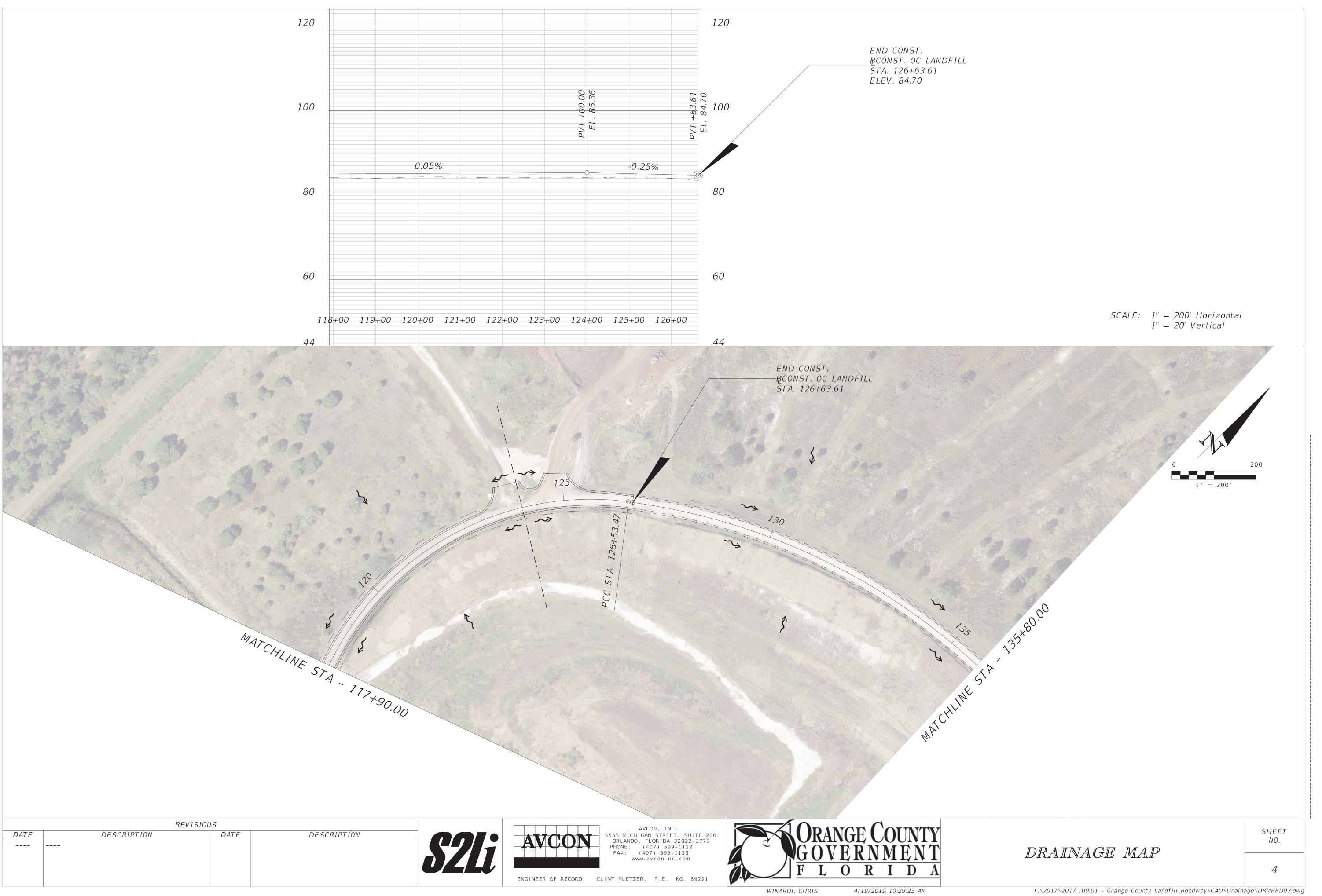
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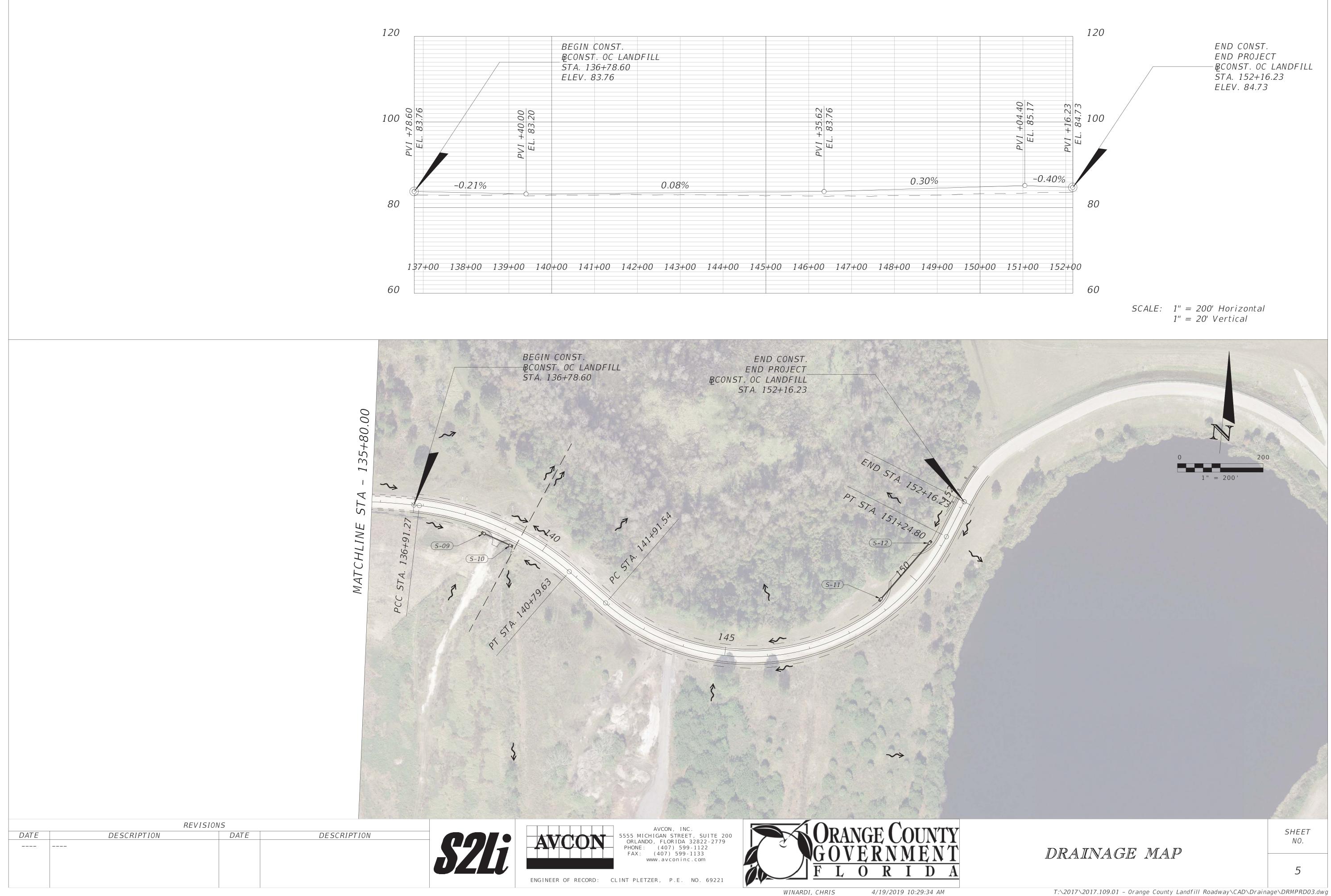
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5-03



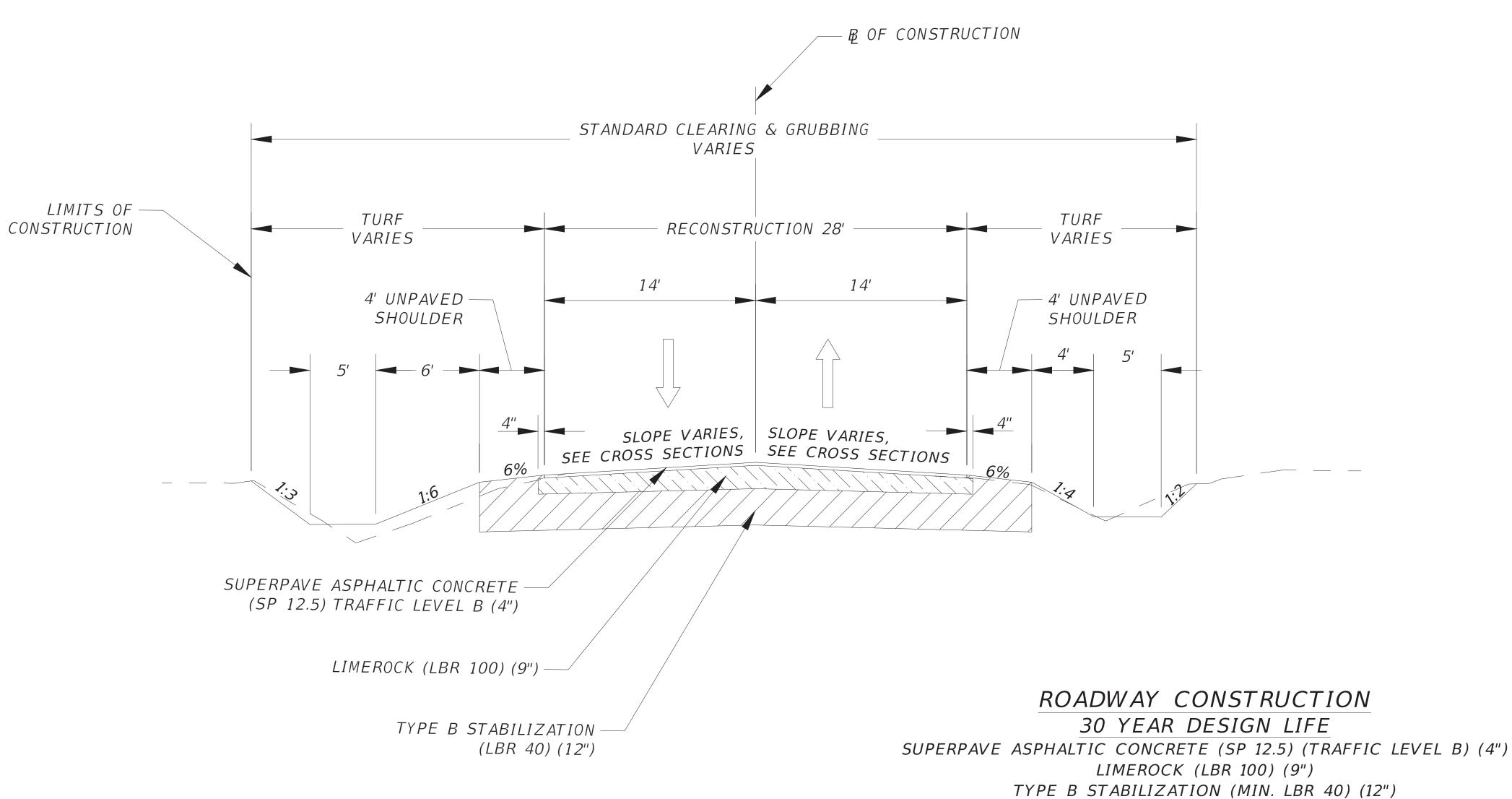
T:\2017\2017.109.01 - Orange County Landfill Roadway\CAD\Drainage\DRMPRD03.dwg





	r +40.00 L. 83.20	BEGIN CONST. BCONST. OC LAN STA. 136+78.60 ELEV. 83.76				/1 +35.62 EL. 83.76					PVI +04.40
%			0.08%					0.309	26		
) 139	+00 140	+00 141+00 142	2+00 143+00	144+00	145+00	146+00	147+00	148+00 14	9+00	150+00	151-

4/19/2019 10:29:34 AM



TRAFFIC DATA

CURRENT YEAR = 2017 AADT = 300ESTIMATED OPENING YEAR = 2018 AADT = 300 ESTIMATED DESIGN YEAR = 2048 AADT = 417D = 0.5 T = 100DESIGN SPEED = 20 MPHPOSTED SPEED = 15 MPH

	REV	'ISIONS		
DATE	DESCRIPTION	DATE	DESCRIPTION	

TYPICAL SECTION - PHASE I ROADWAY IMPROVEMENTS STA. 100+27.29 TO STA. 126+63.61 N.T.S.



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ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221



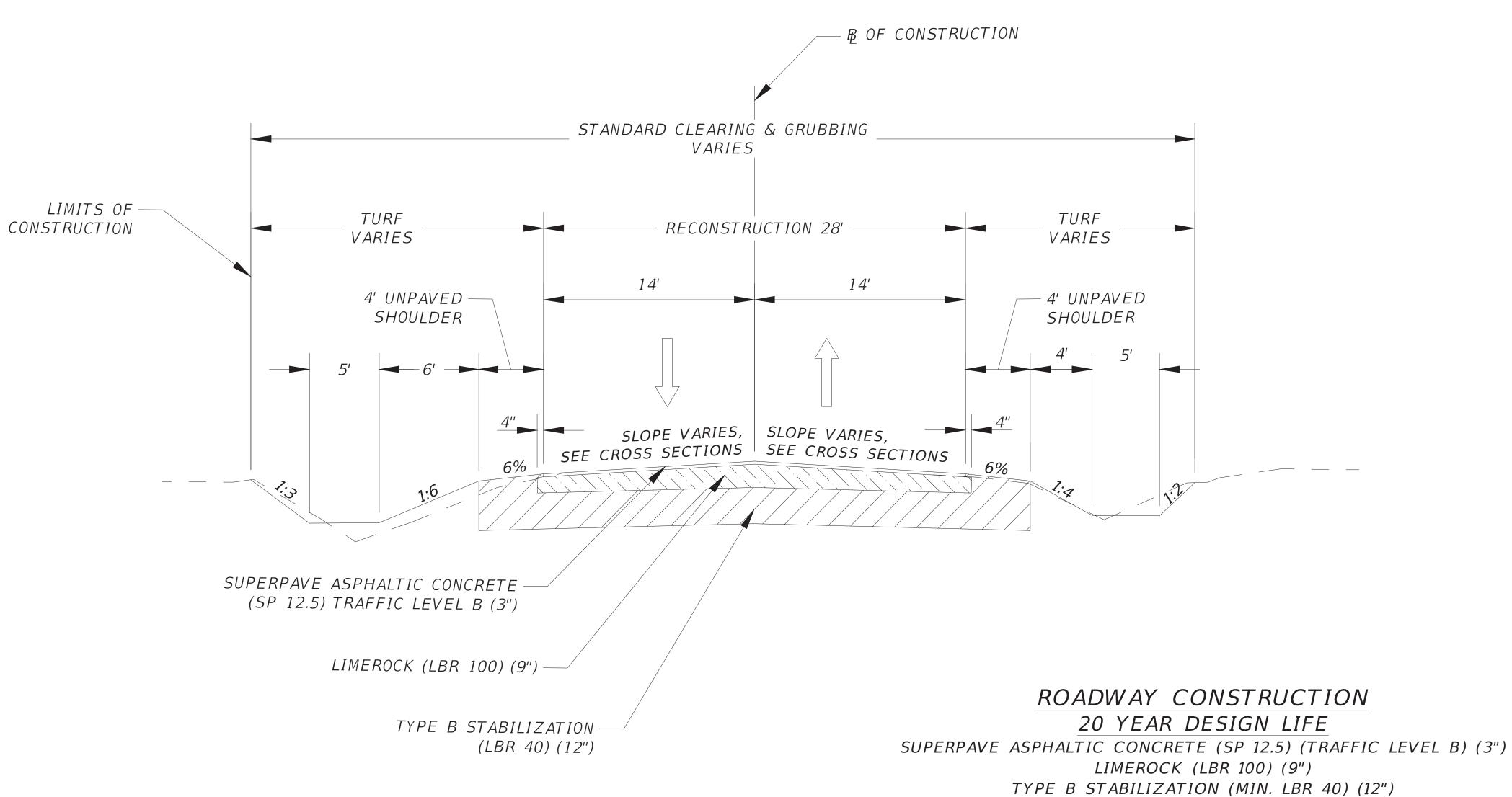
WINARDI, CHRIS

4/19/2019 10:31:09 AM



SHEET NO.

8



TRAFFIC DATA

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	REV	SIONS		
DATE	DESCRIPTION	DATE	DESCRIPTION	

TYPICAL SECTION - PHASE II (NOT IN CONTRACT) ROADWAY IMPROVEMENTS STA. 136+78.60 TO STA. 152+16.23 N.T.S.



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ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221



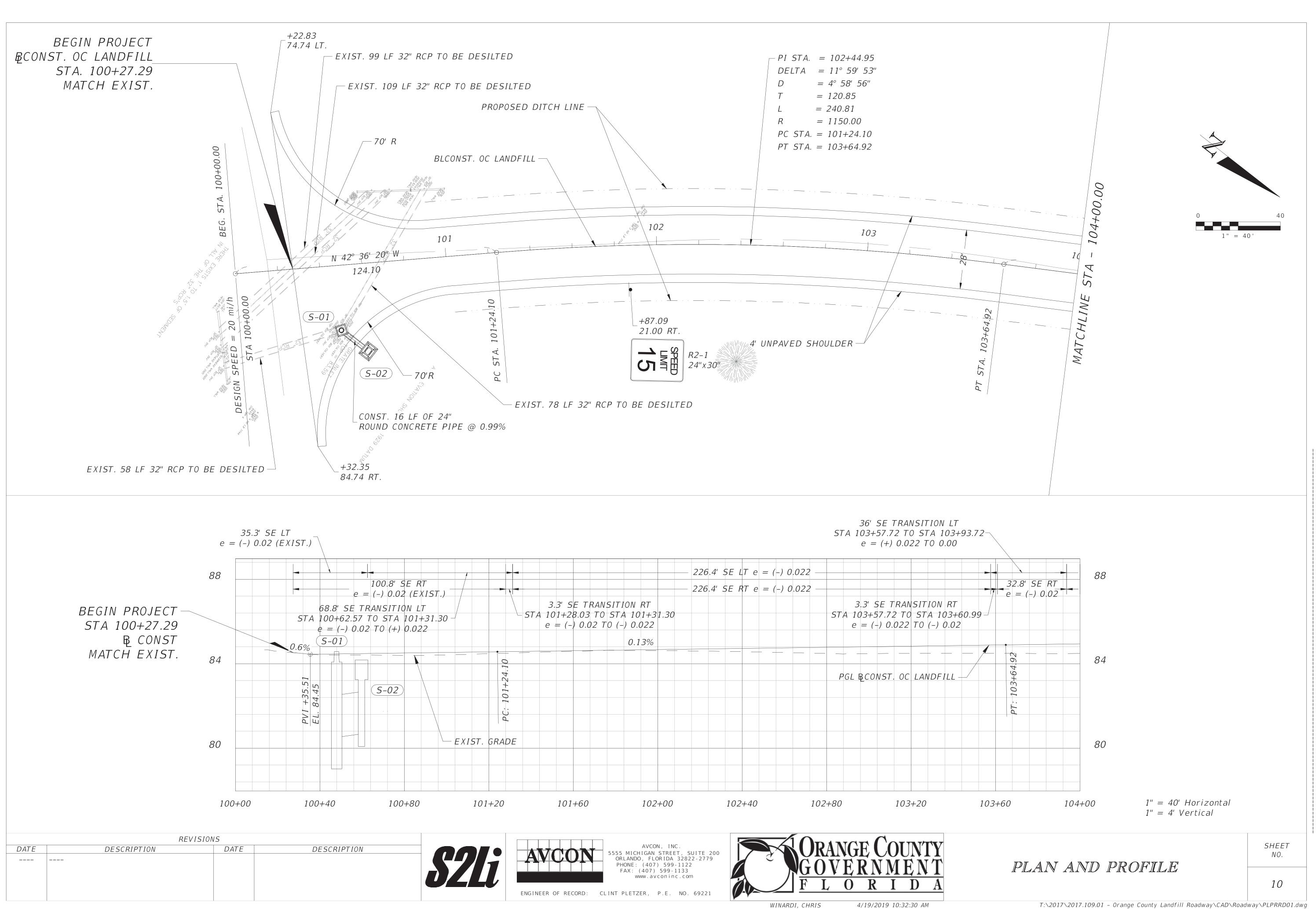
WINARDI, CHRIS

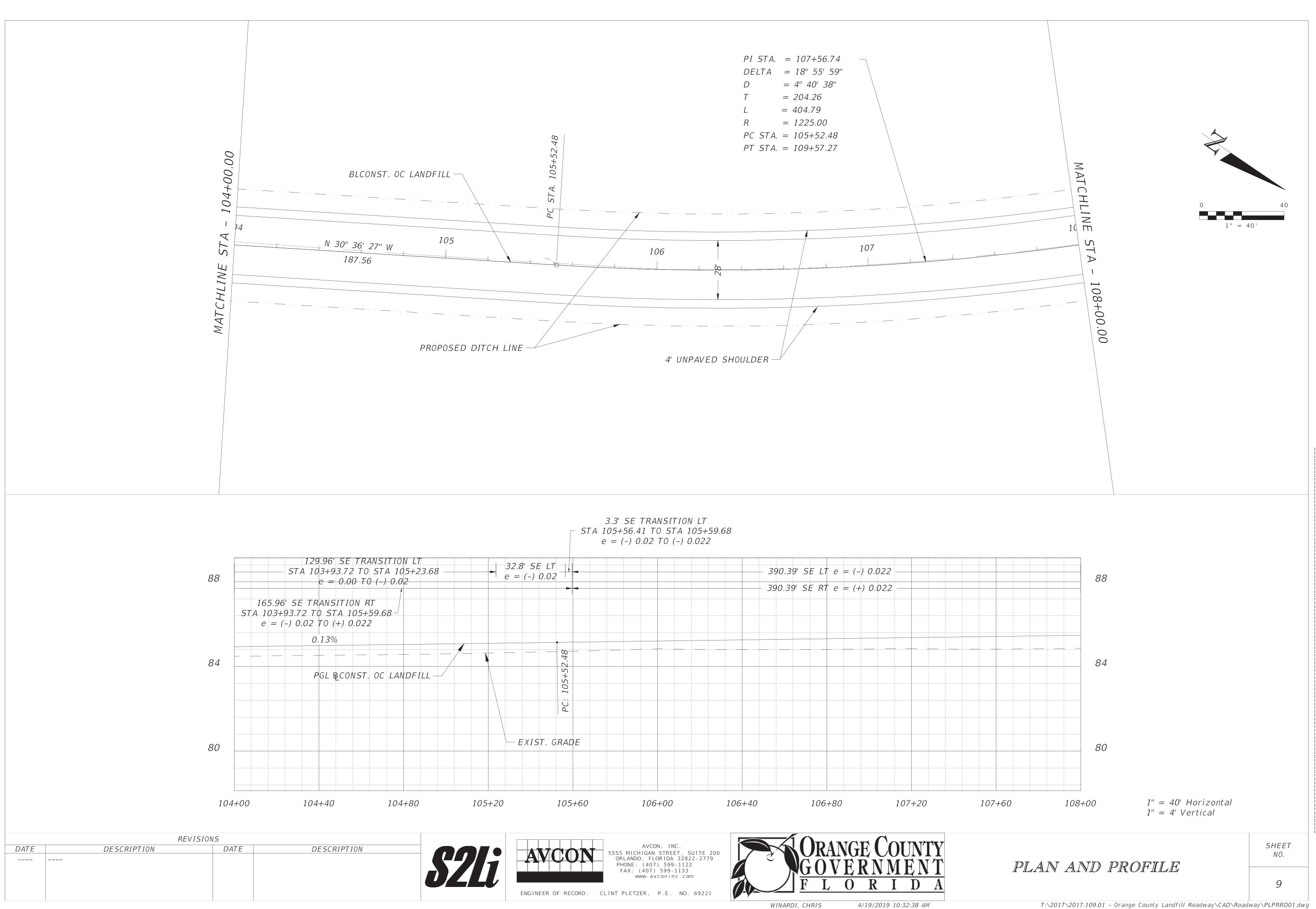
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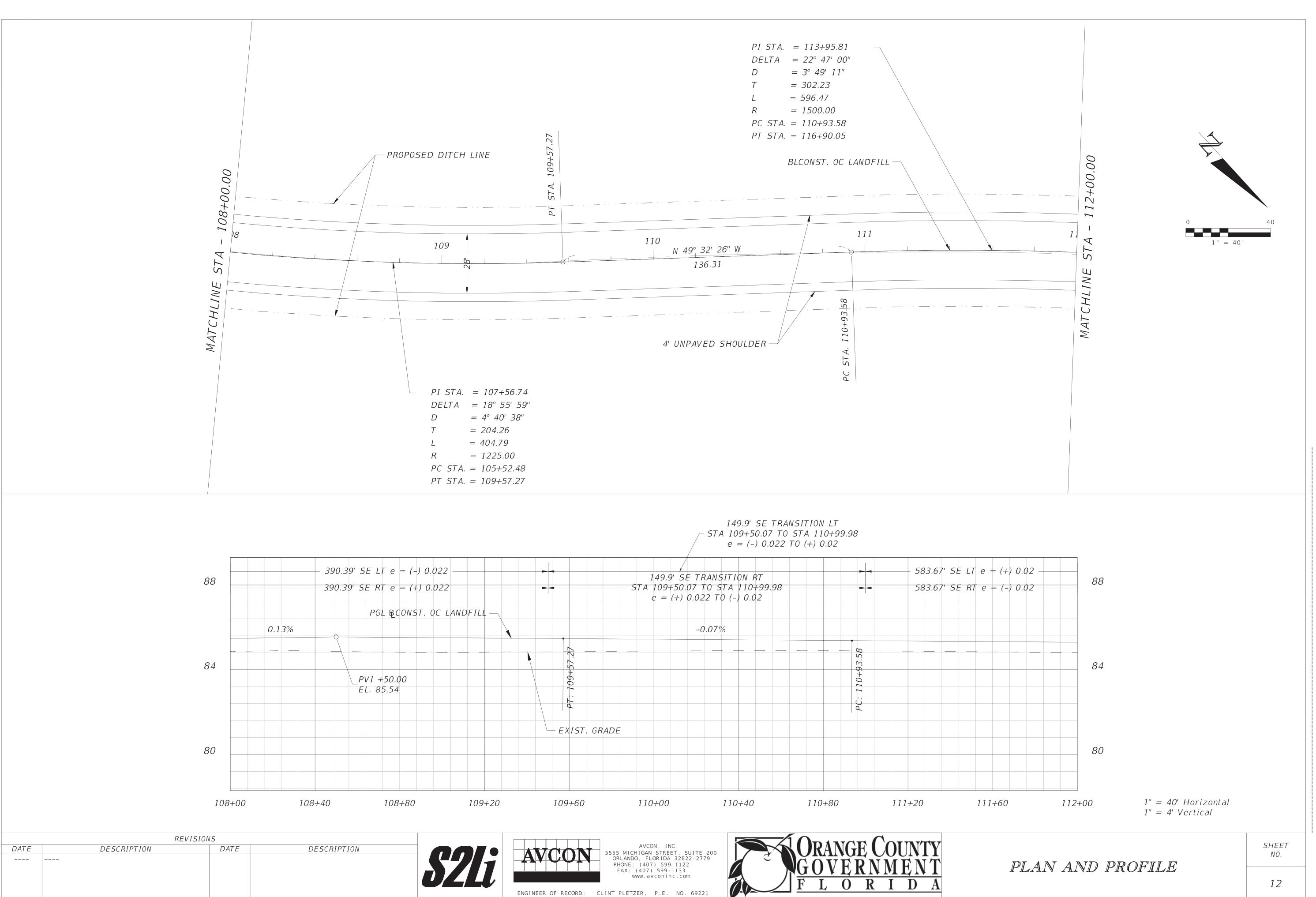


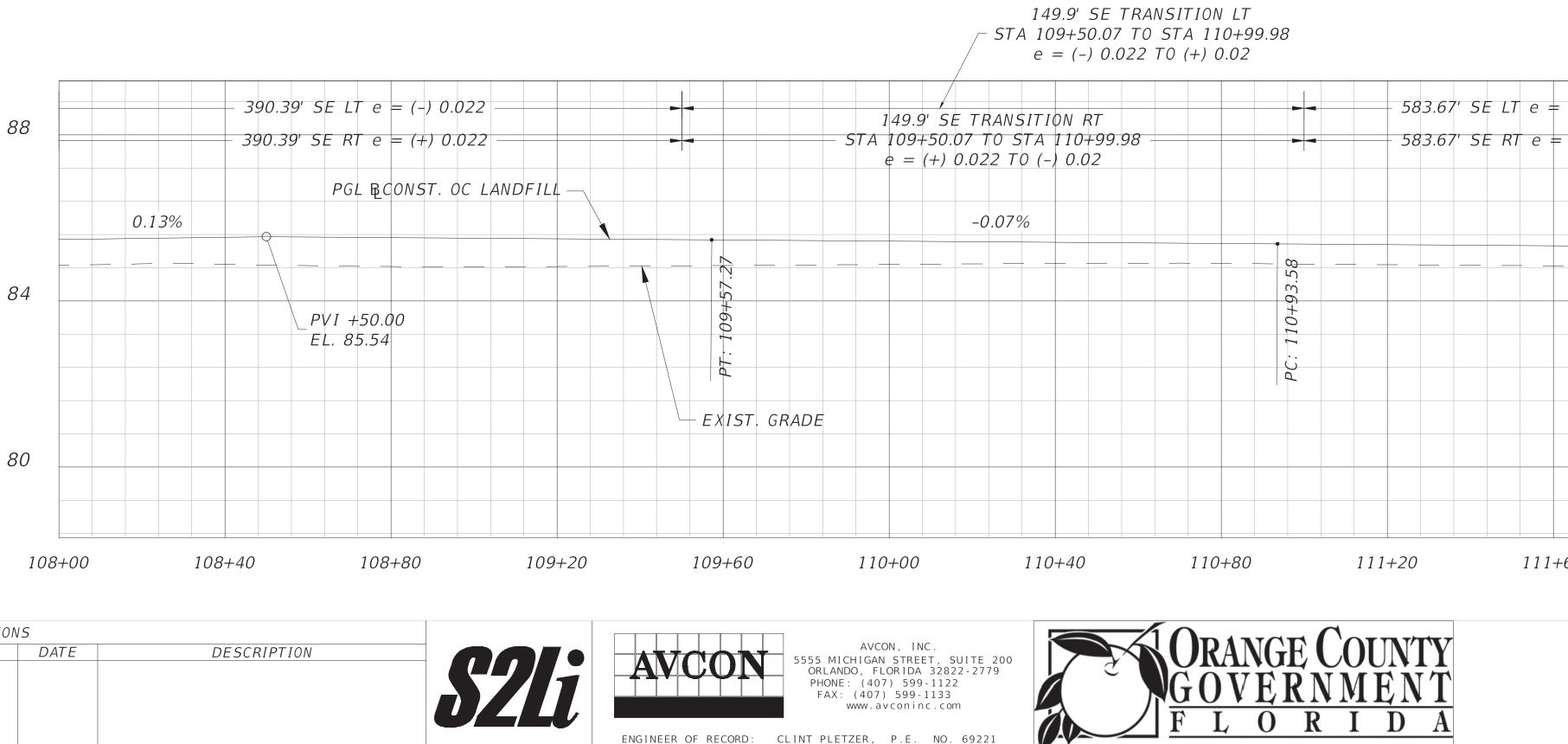
SHEET NO.

9



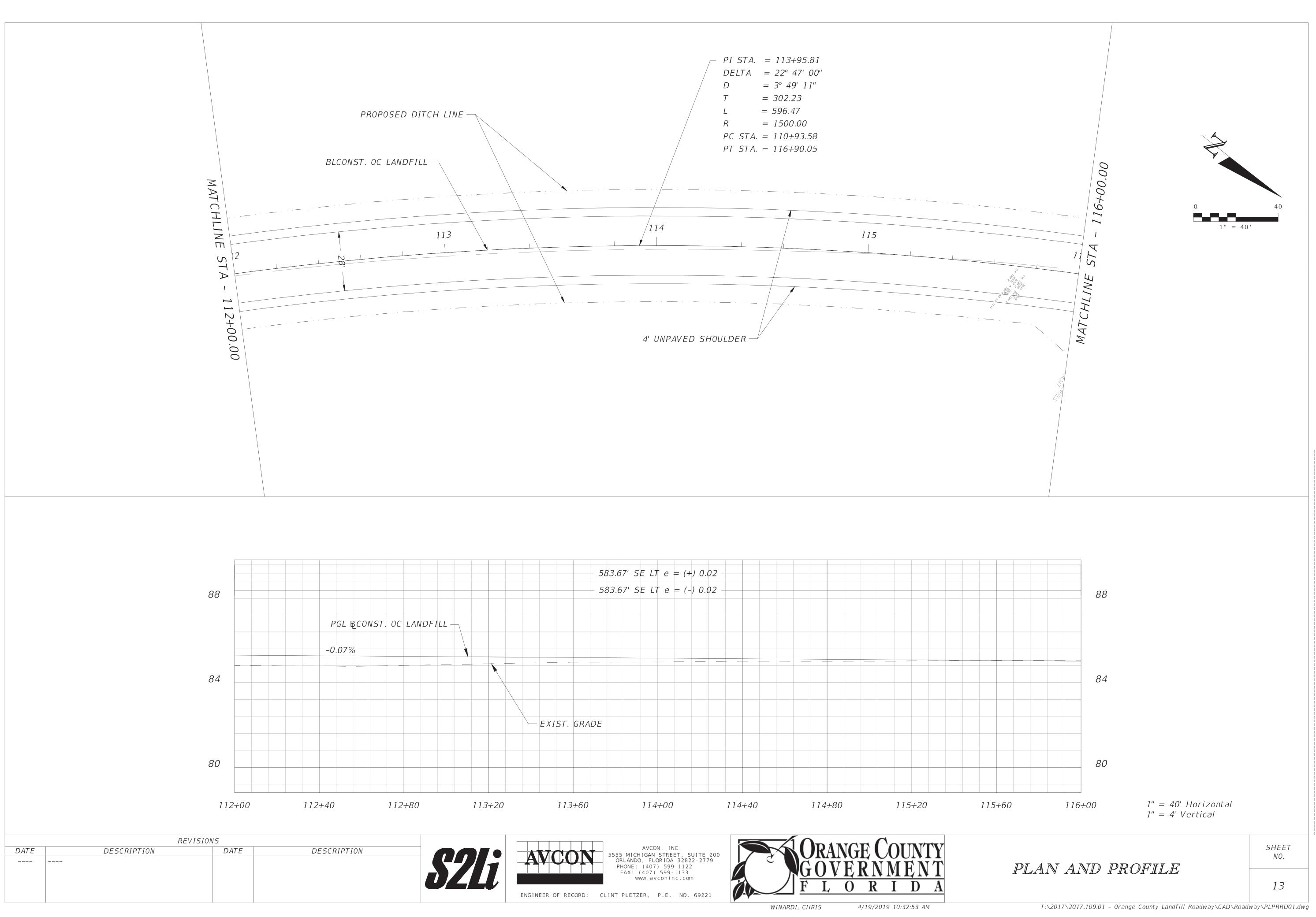


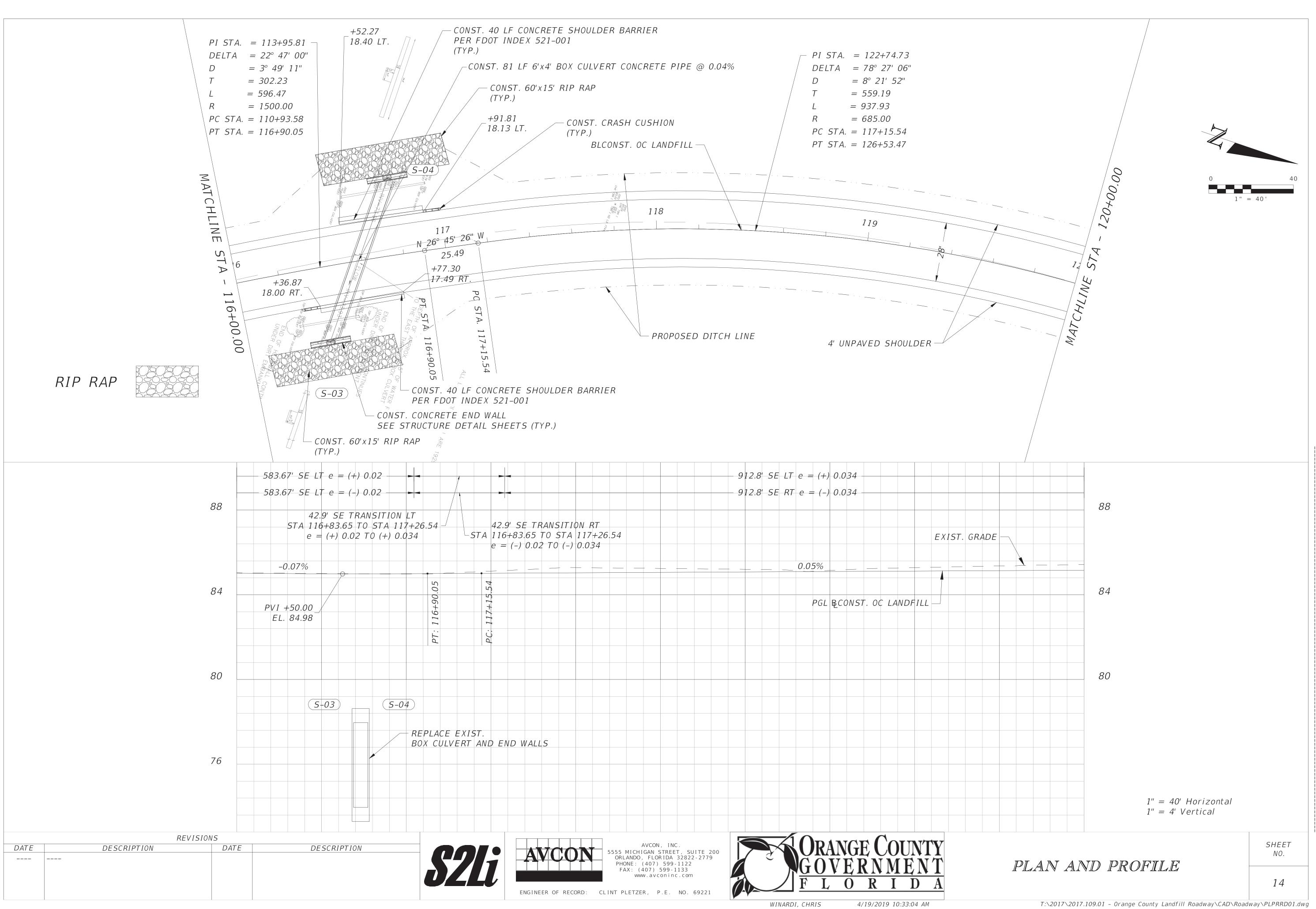


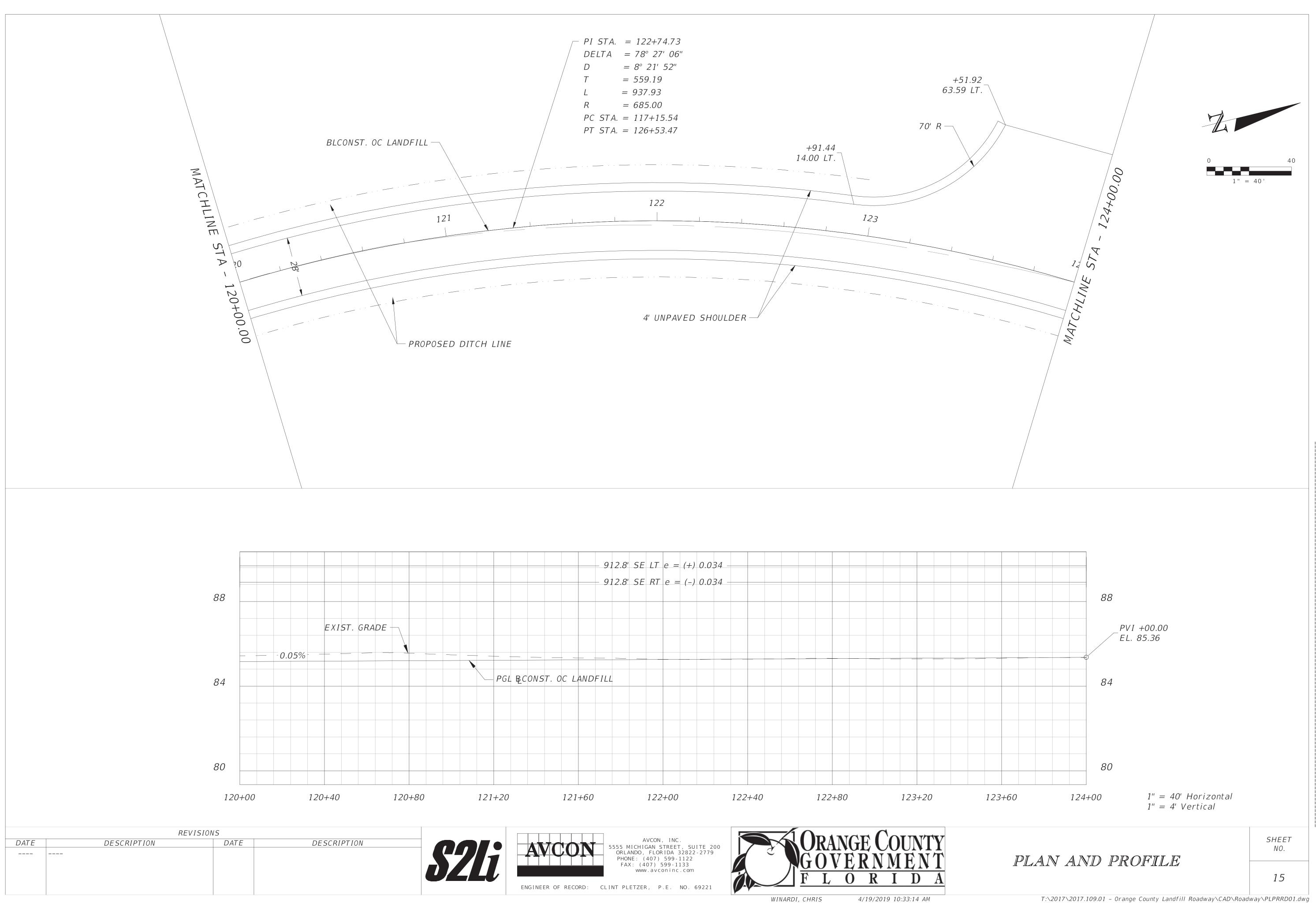


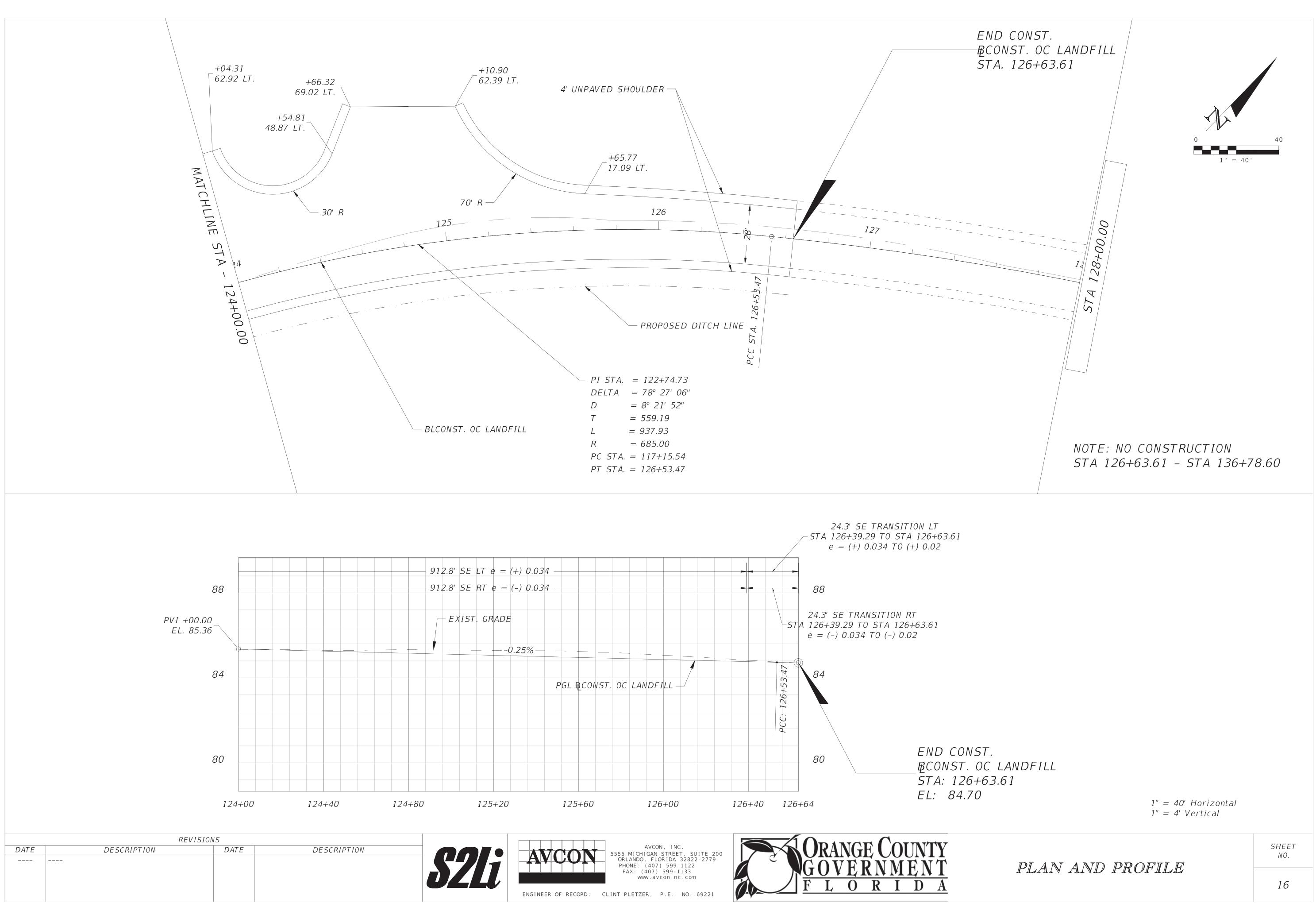
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DATE	DESCRIPTION	DATE	DESCRIPTION	

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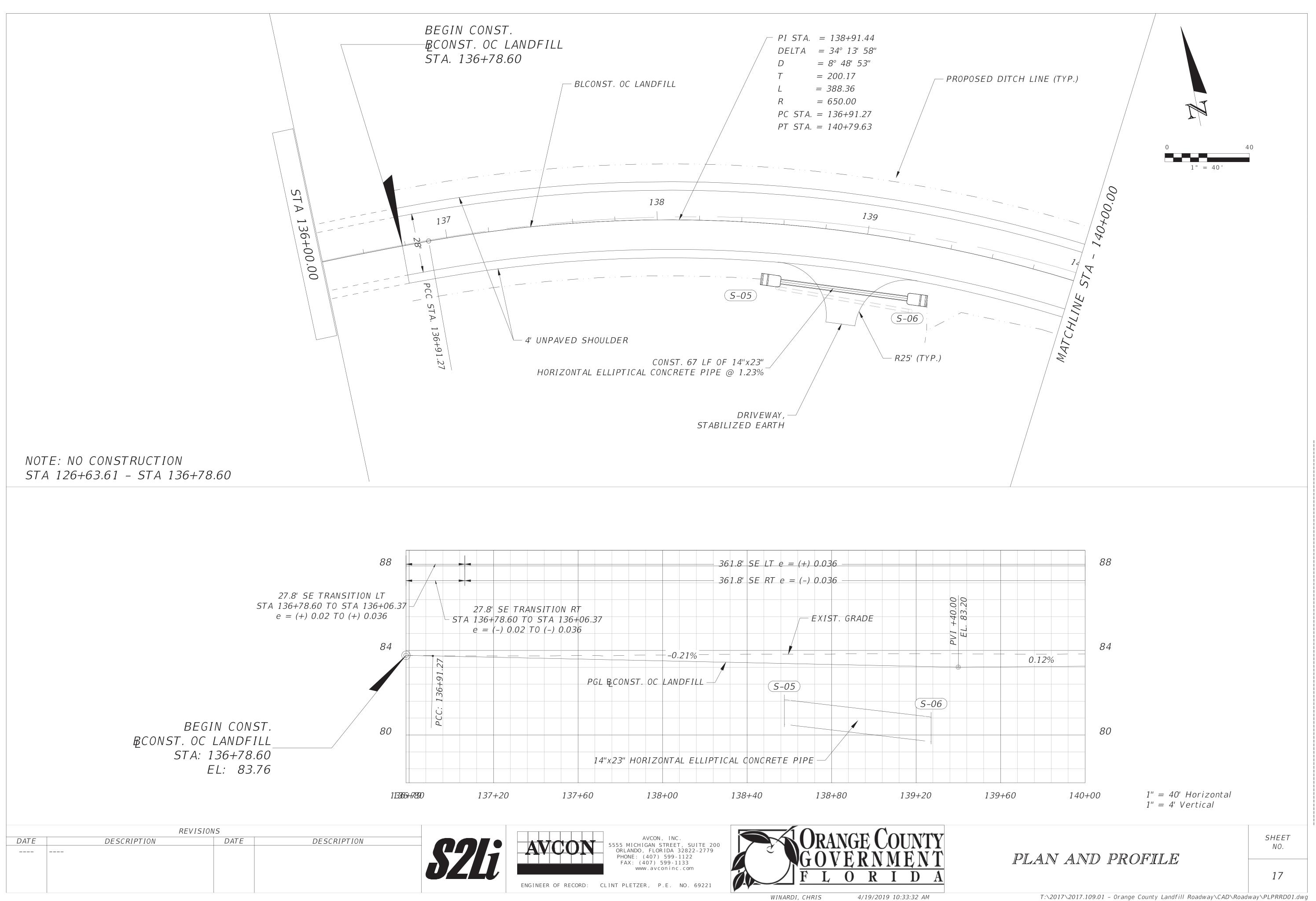




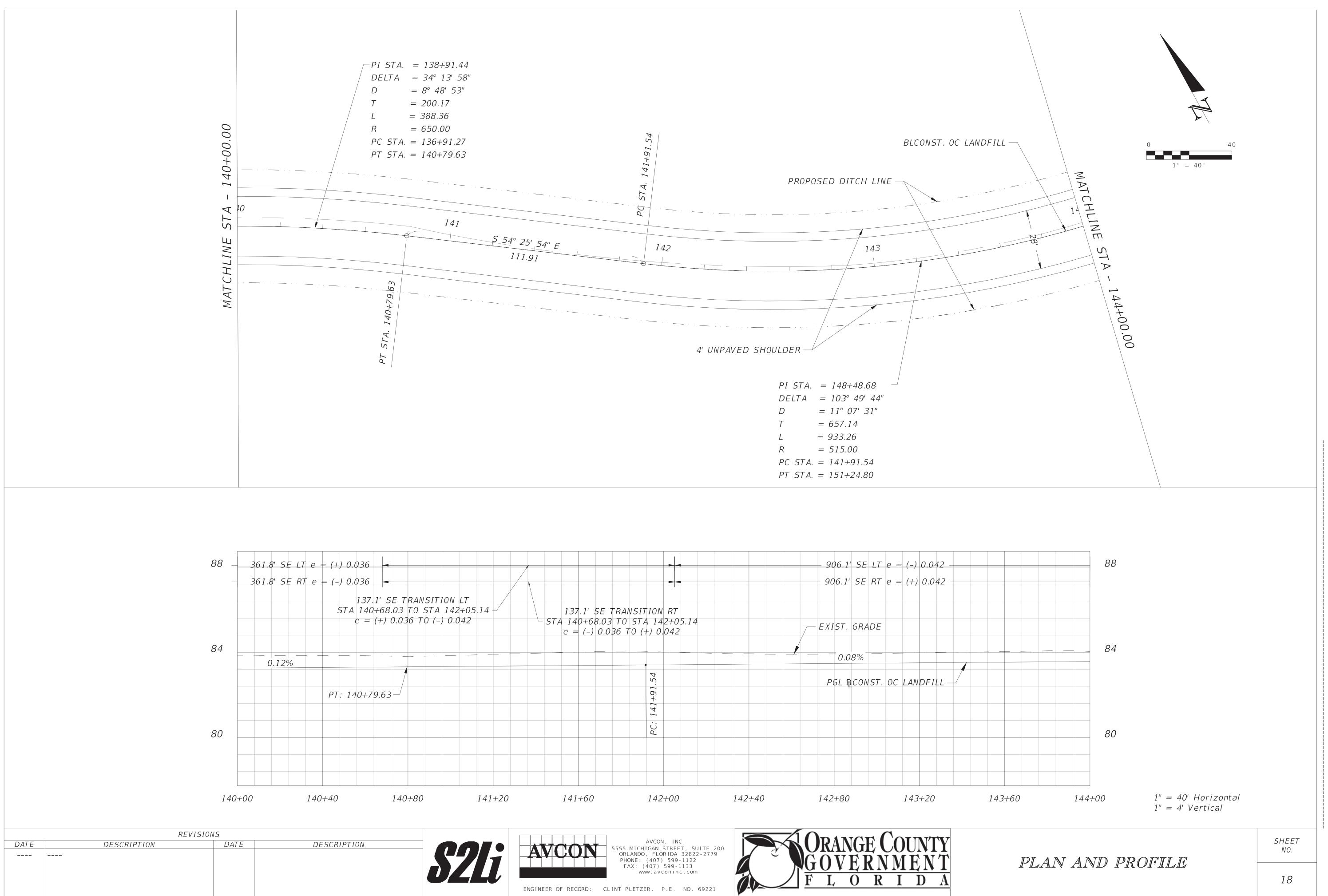




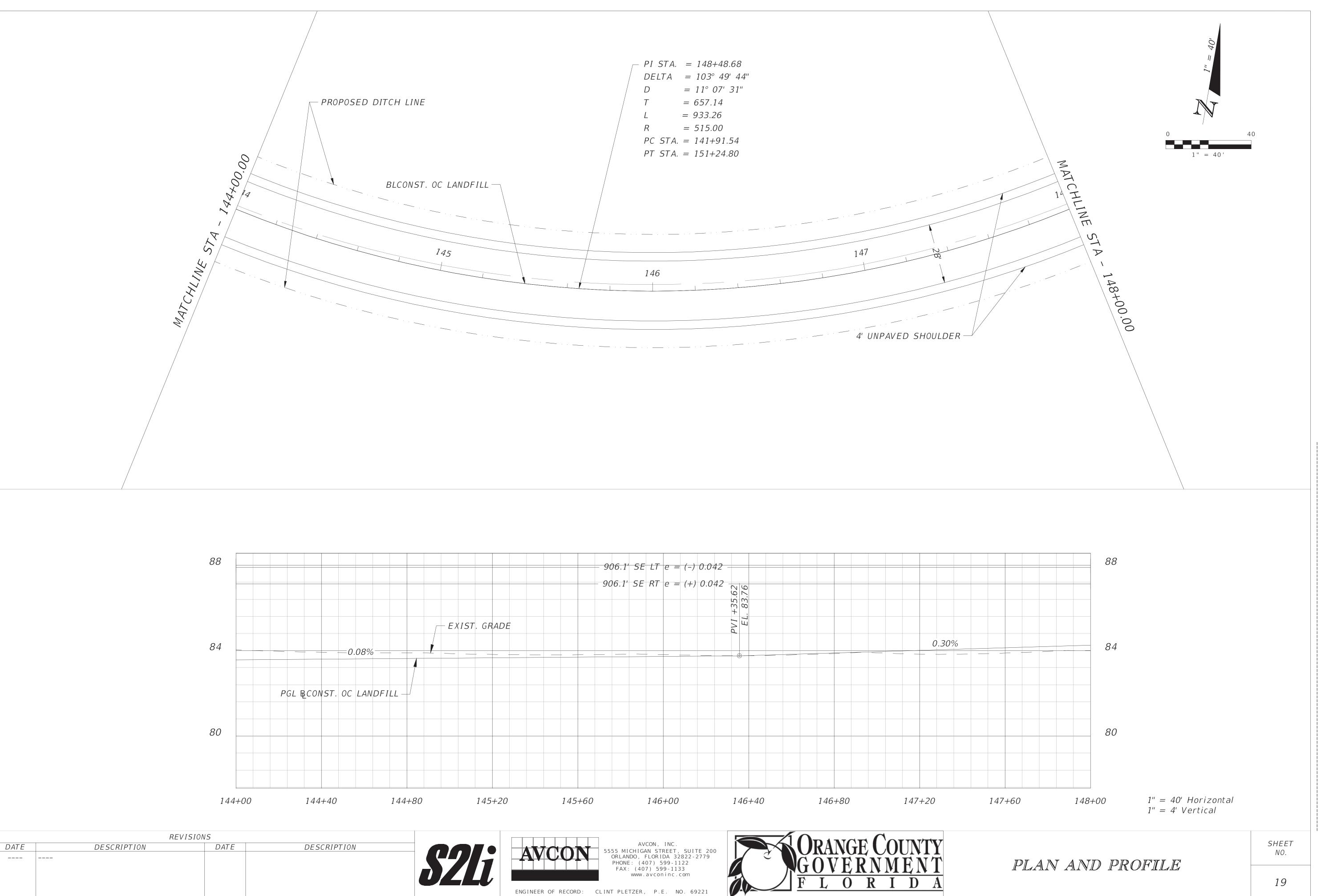
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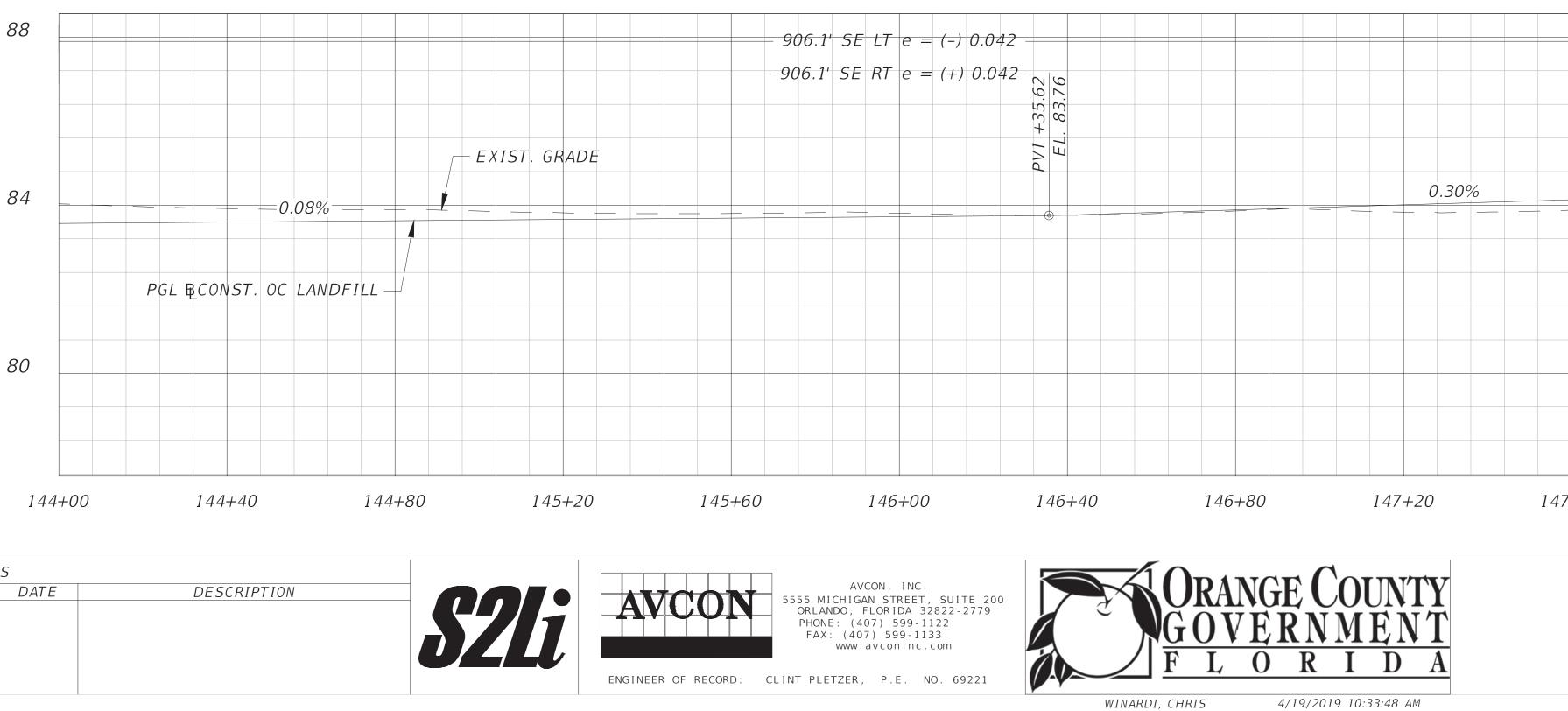


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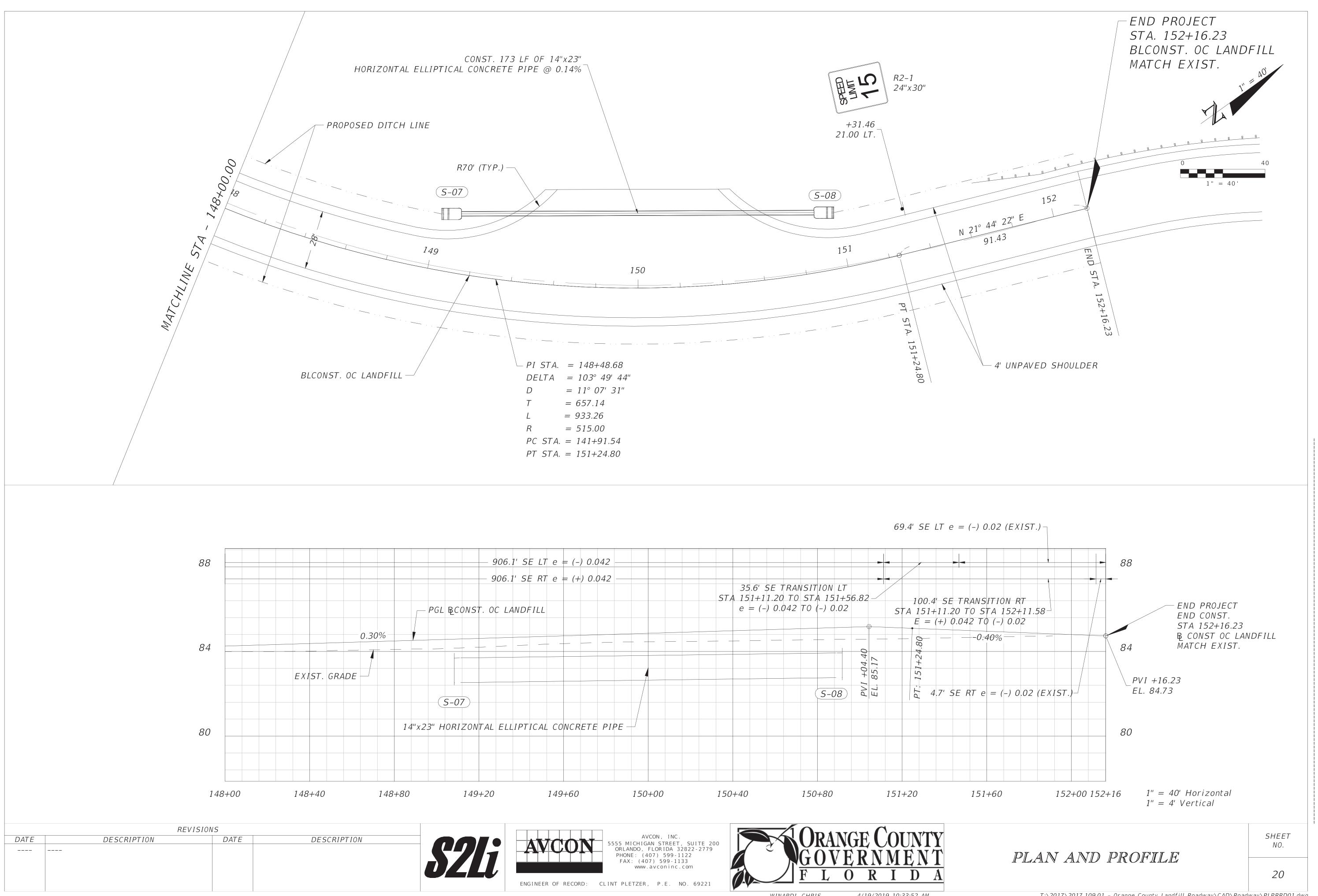
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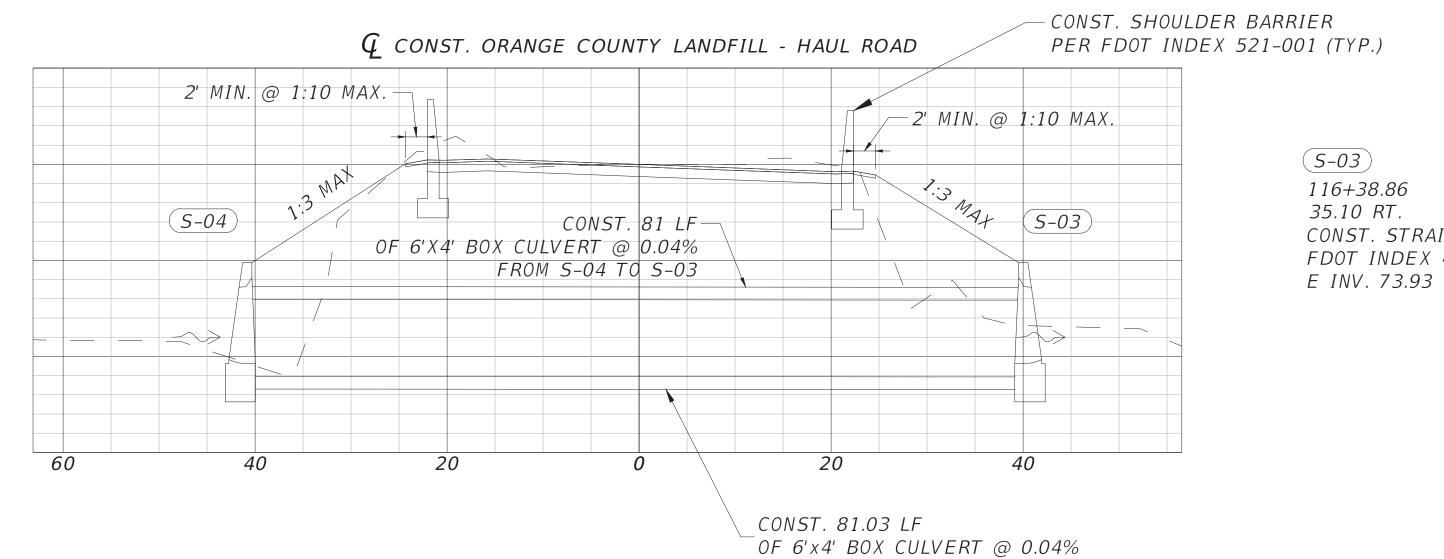


	BE	/ISIONS		
DATE		DATE	DESCRIPTION	
DATE	DESCRIPTION	DATE	DESCRIPTION	

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4/19/2019 10:33:52 AM



q const. orange county landfill - haul road

90

75

(S-01) 100+47.91 85 30.76 RT. REPLACE TOP WITH 5' RECT. TYPE J MH FDOT INDEX 425-010 RIM ELEV. 84.57 80 NE INV. 80.51 EXIST. SE INV. 79.52 EXIST. W INV. 79.55

REVISIONS DESCRIPTION DESCRIPTION DATE DATE ____ ----

S-04

116+77.58

36.07 LT.

INV. 73.96

FDOT INDEX 430-030

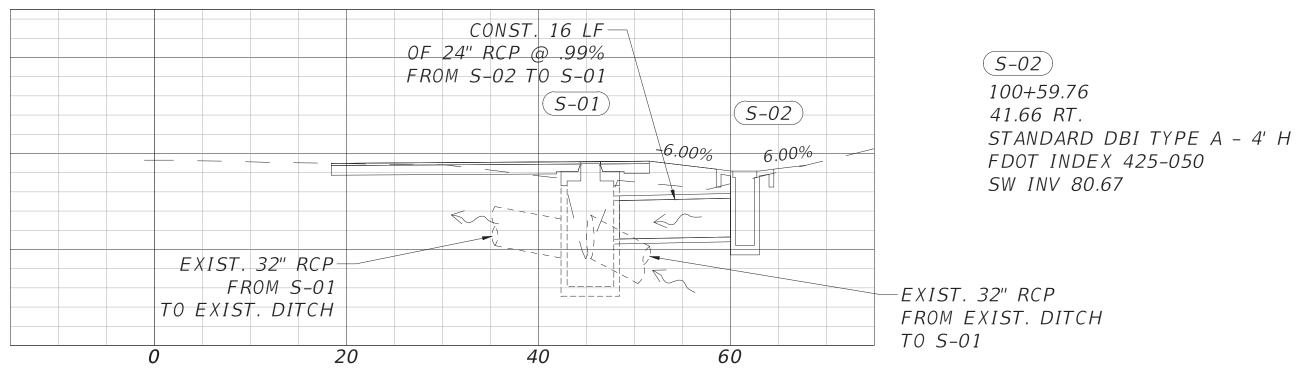
CONST. STRAIGHT CONC. END WALL

90

85 80

75

70





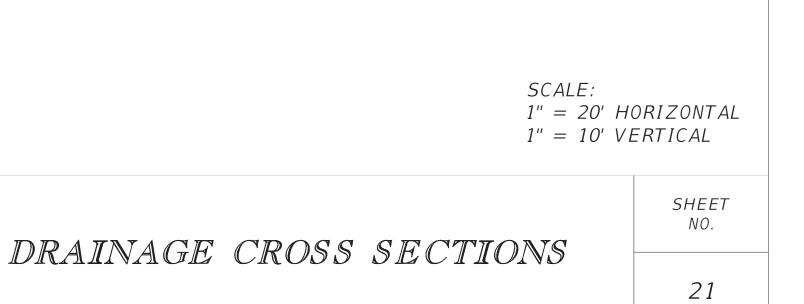
AVCON, INC. 5555 MICHIGAN STREET, SUITE 200 ORLANDO, FLORIDA 32822-2779 PHONE: (407) 599-1122 FAX: (407) 599-1133 www.avconinc.com

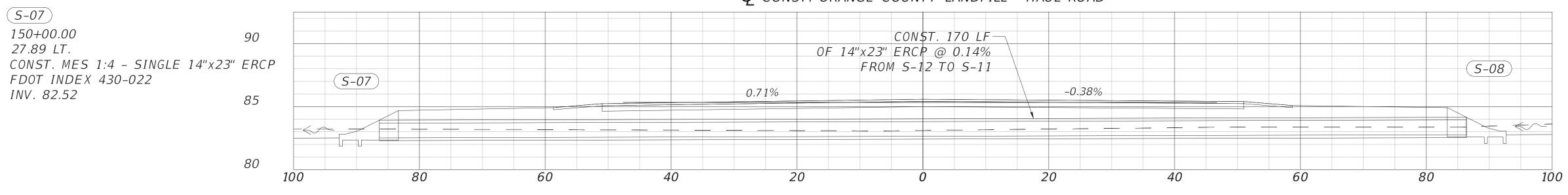


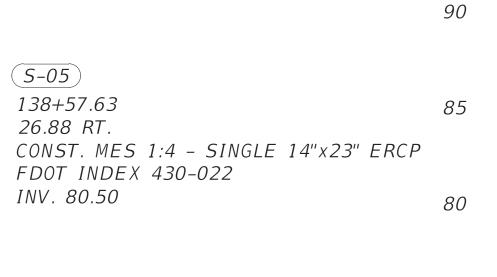
WINARDI, CHRIS

4/19/2019 10:35:09 AM

CONST. STRAIGHT CONC. END WALL FD0T INDEX 430-030





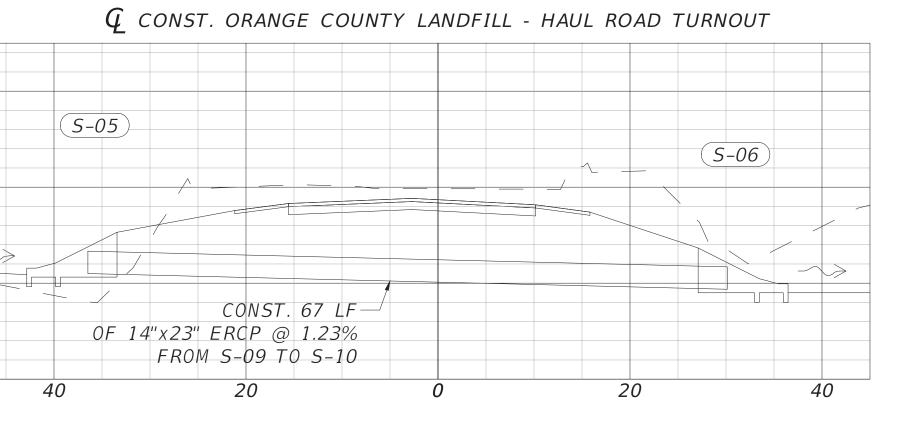


75



 ${\it q}$ const. orange county landfill - haul road

150+00.00 35.38 LT



<u>(S-06</u>) 139+27.12 26.87 RT. CONST. MES 1:4 - SINGLE 14"x23" ERCP FD0T INDEX 430-022 INV. 79.68

138+95.69 27.75 RT



WINARDI, CHRIS

4/19/2019 10:35:25 AM

<u>(S-08</u>) 150+00.00 27.88 LT. CONST. MES 1:4 - SINGLE 14"x23" ERCP FDOT INDEX 430-022 INV. 82.76

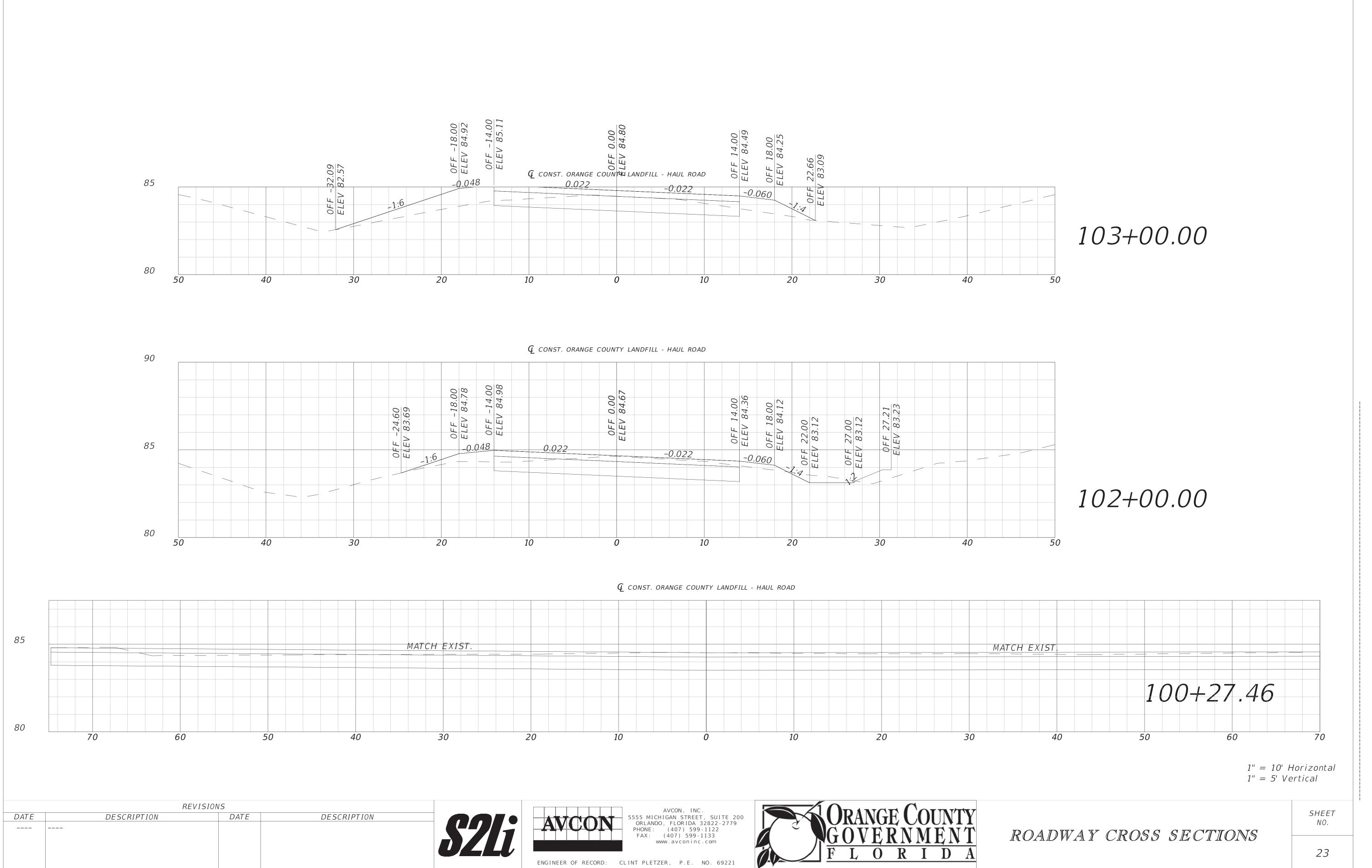
SCAL	.E:	
1" =	20'	HORIZONTAL
1" =	10'	VERTICAL

SHEET

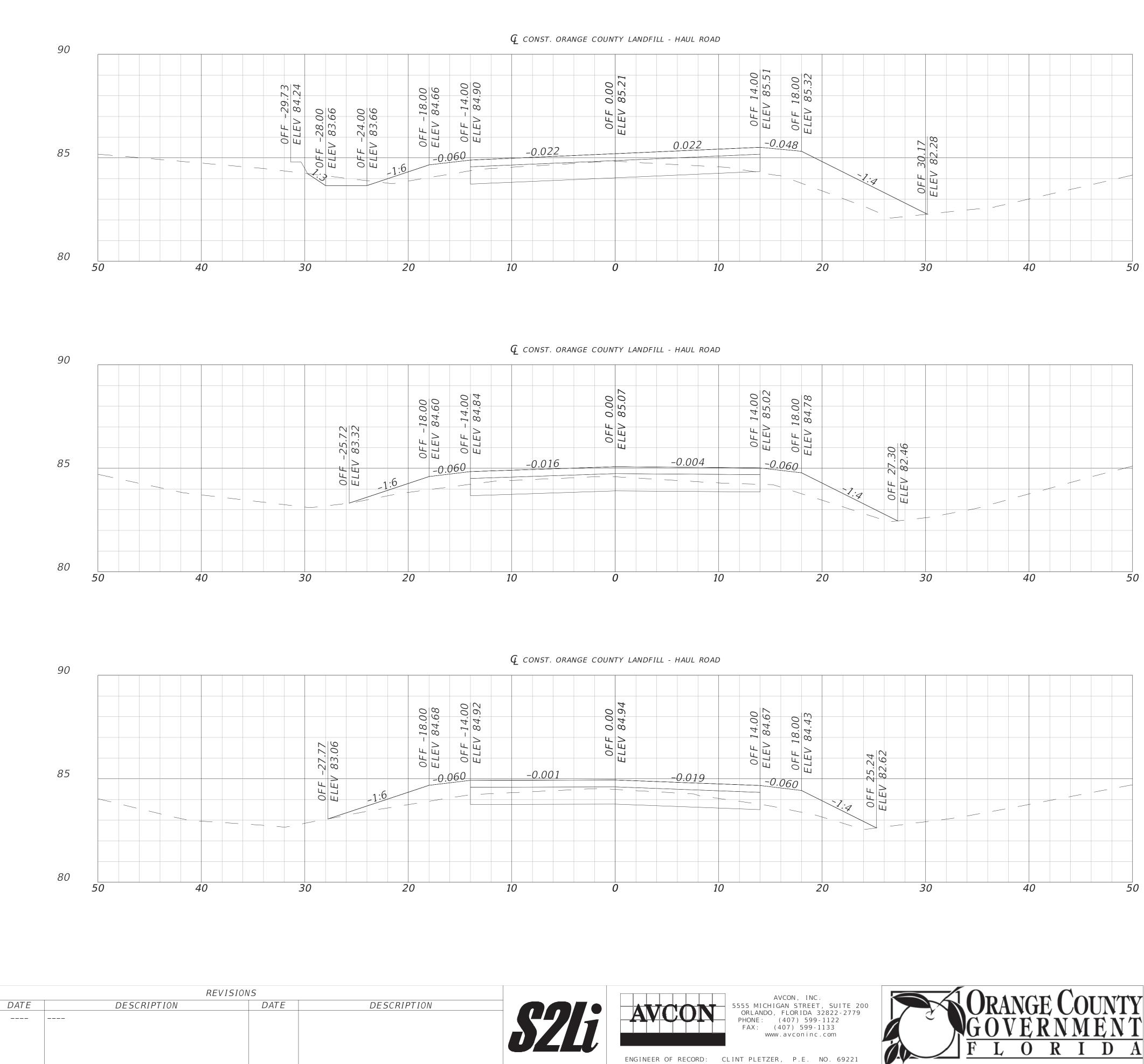
NO.



22



4/19/2019 10:36:16 AM





4/19/2019 10:36:26 AM

106+00.00

105+00.00

104+00.00

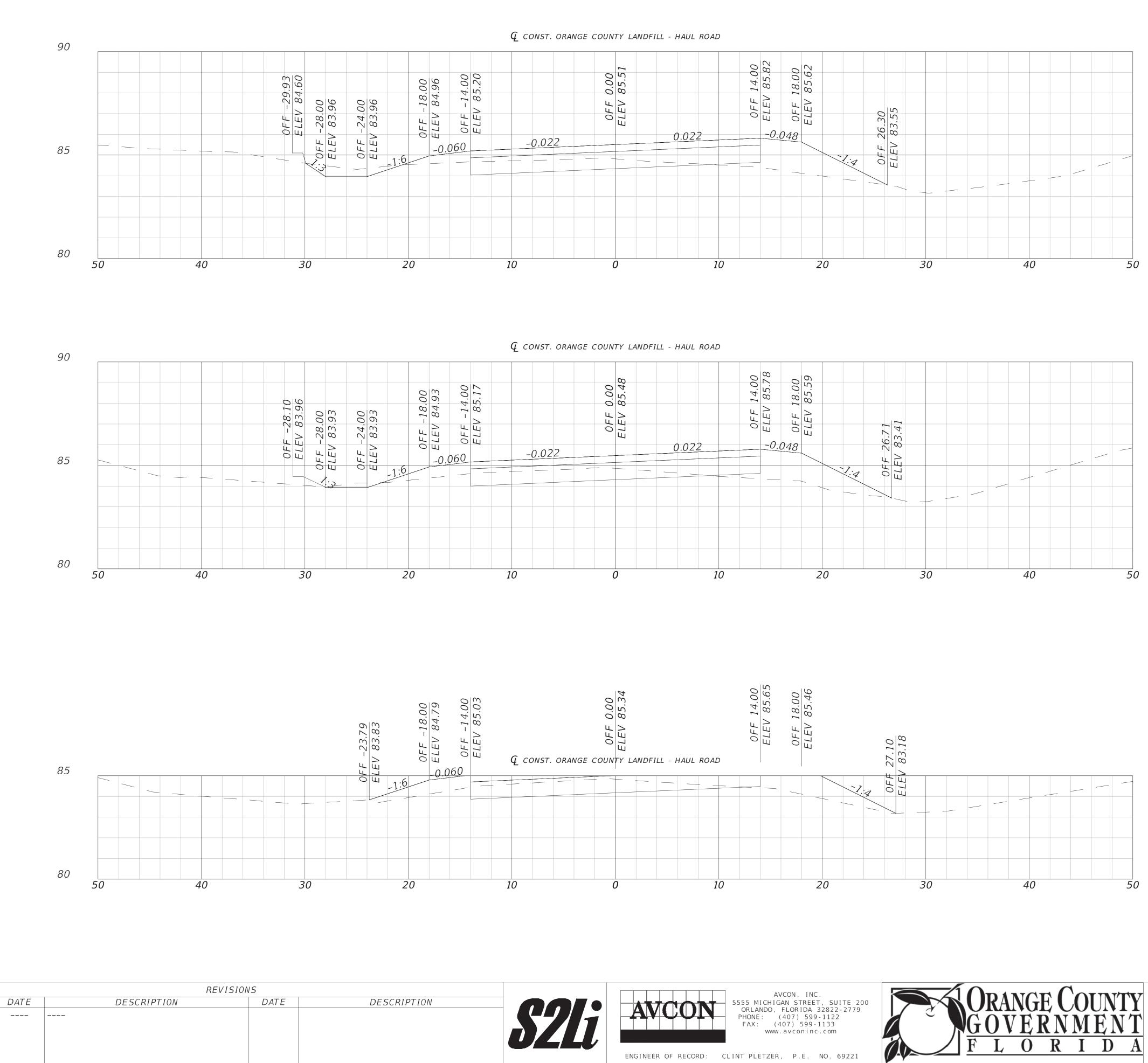
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24

SHEET

NO.



4/19/2019 10:36:35 AM

109+00.00

108+00.00

107+00.00

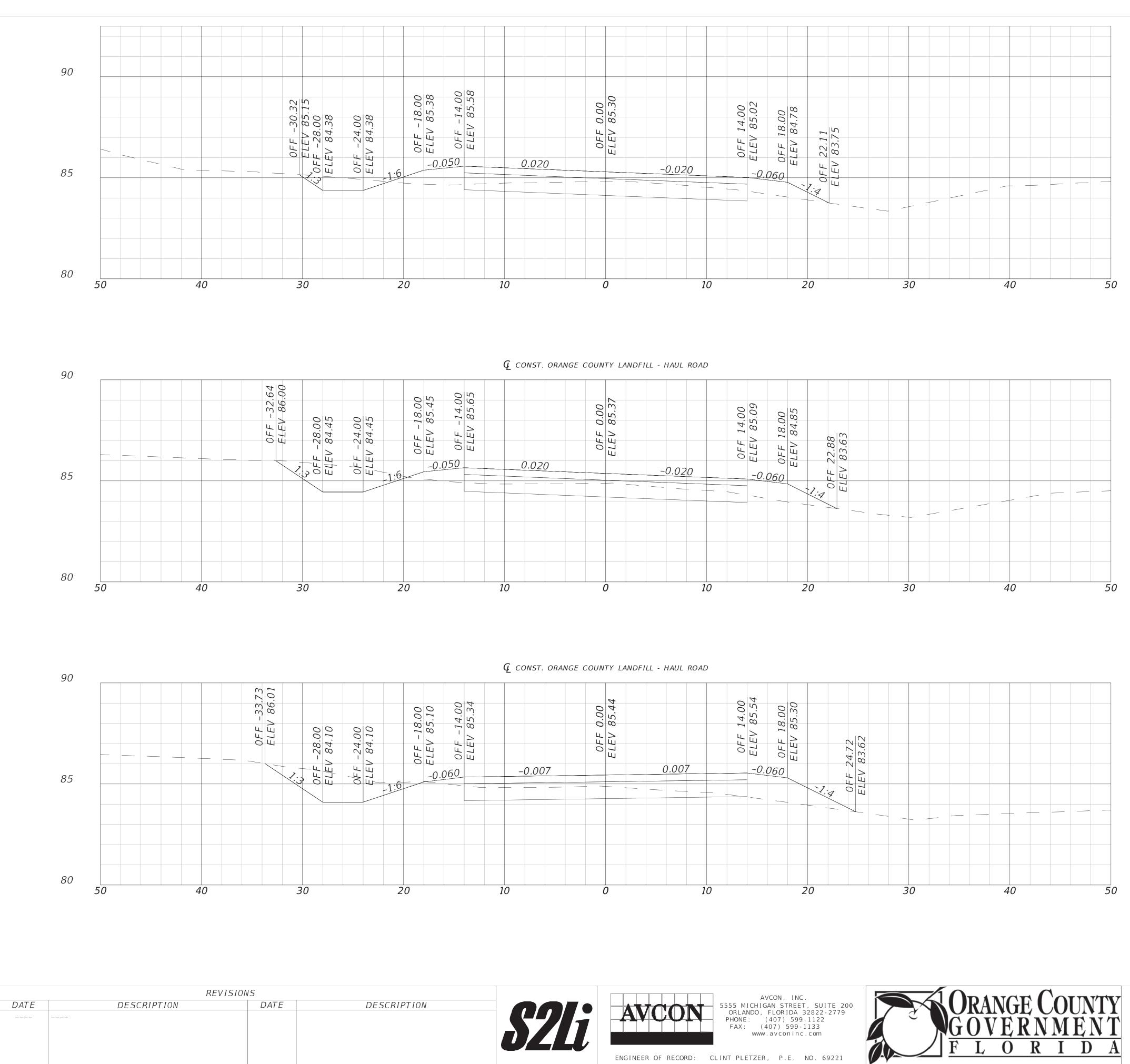
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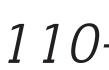


25

SHEET

NO.





4/19/2019 10:36:46 AM

112+00.00

111+00.00

110+00.00

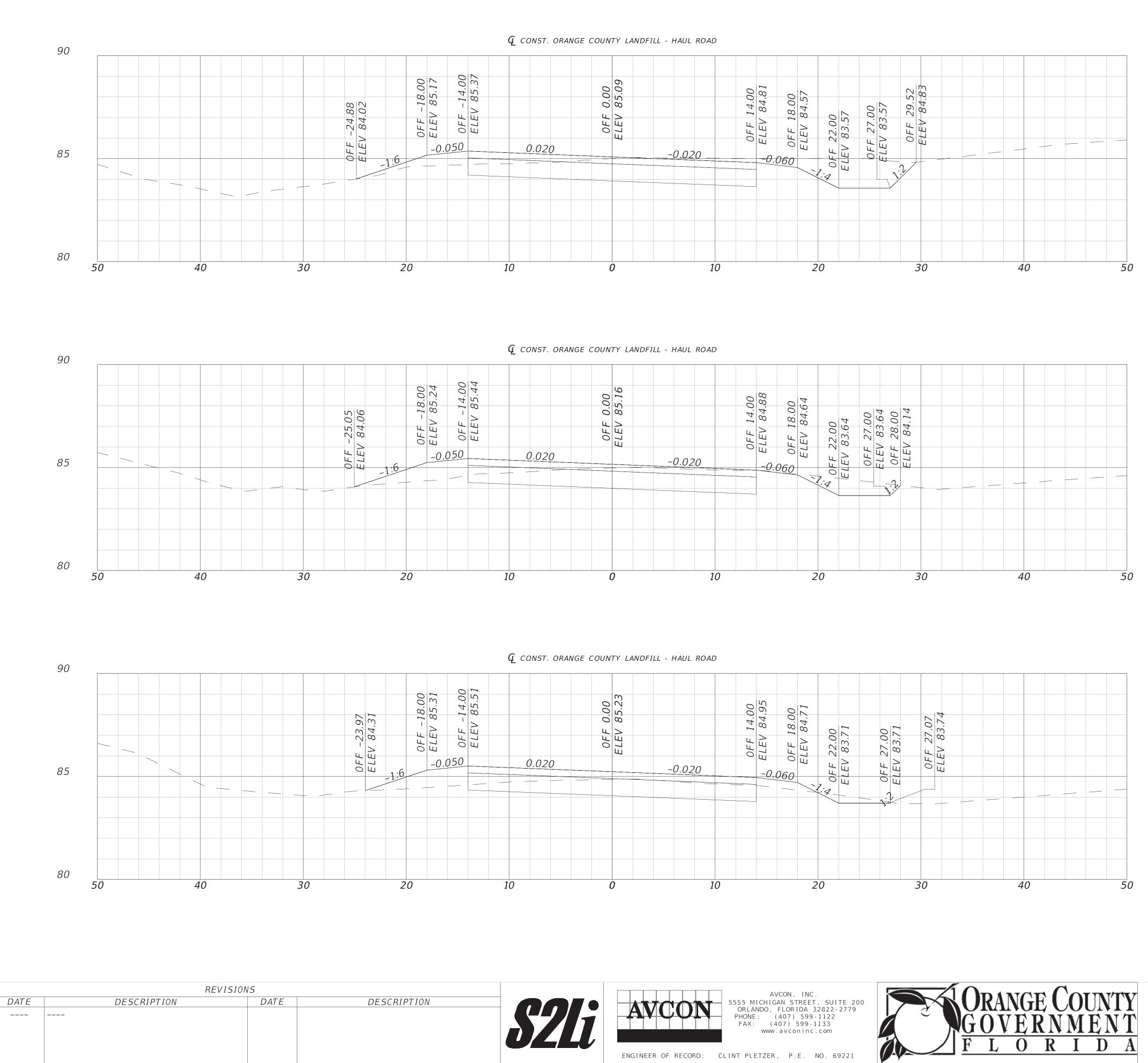
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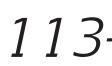


26

SHEET

NO.





4/19/2019 10:36:56 AM

115+00.00

114+00.00

113+00.00

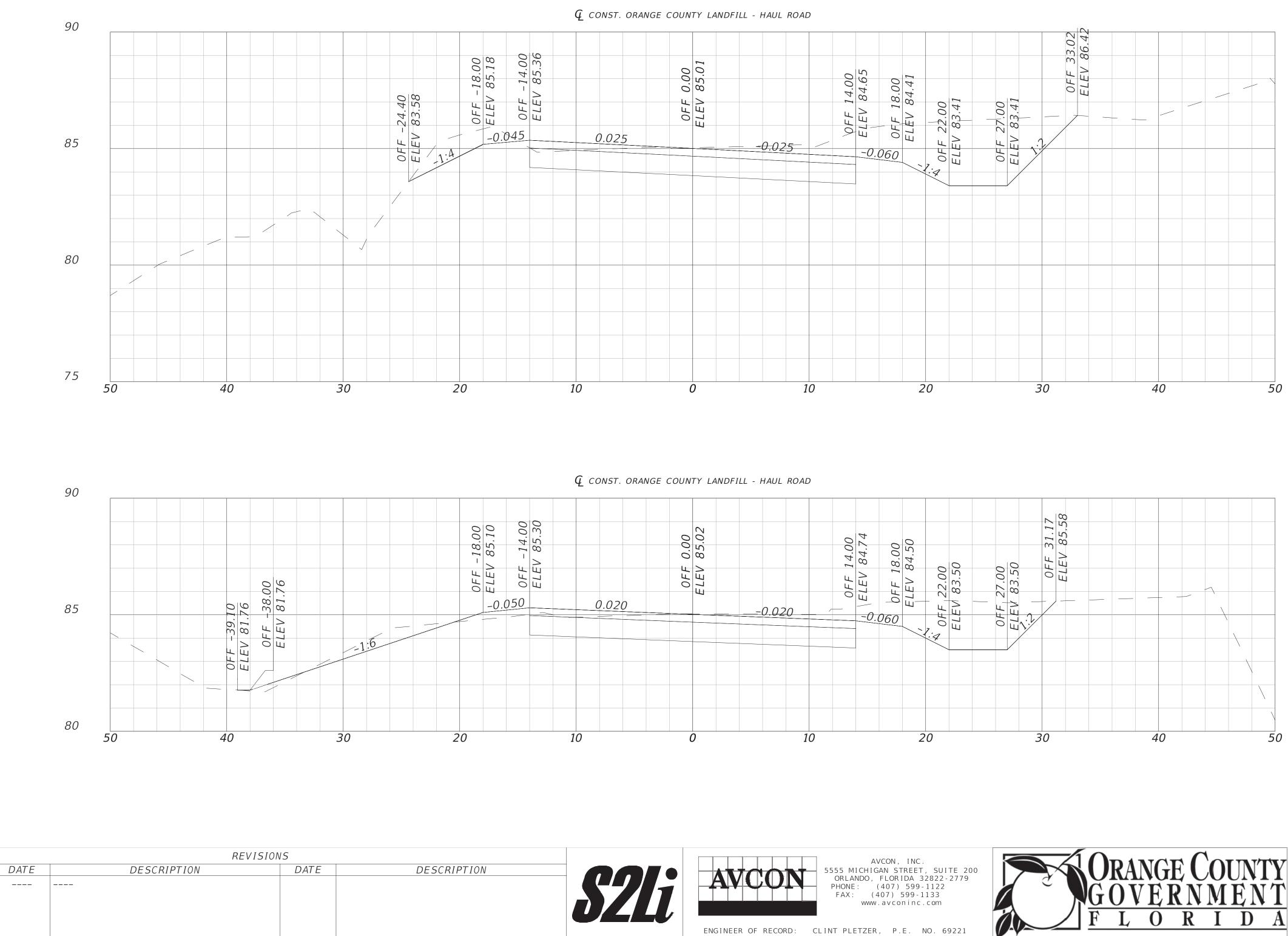
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27

SHEET

NO.



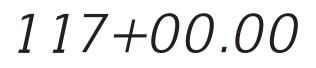








4/19/2019 10:37:06 AM



116+00.00

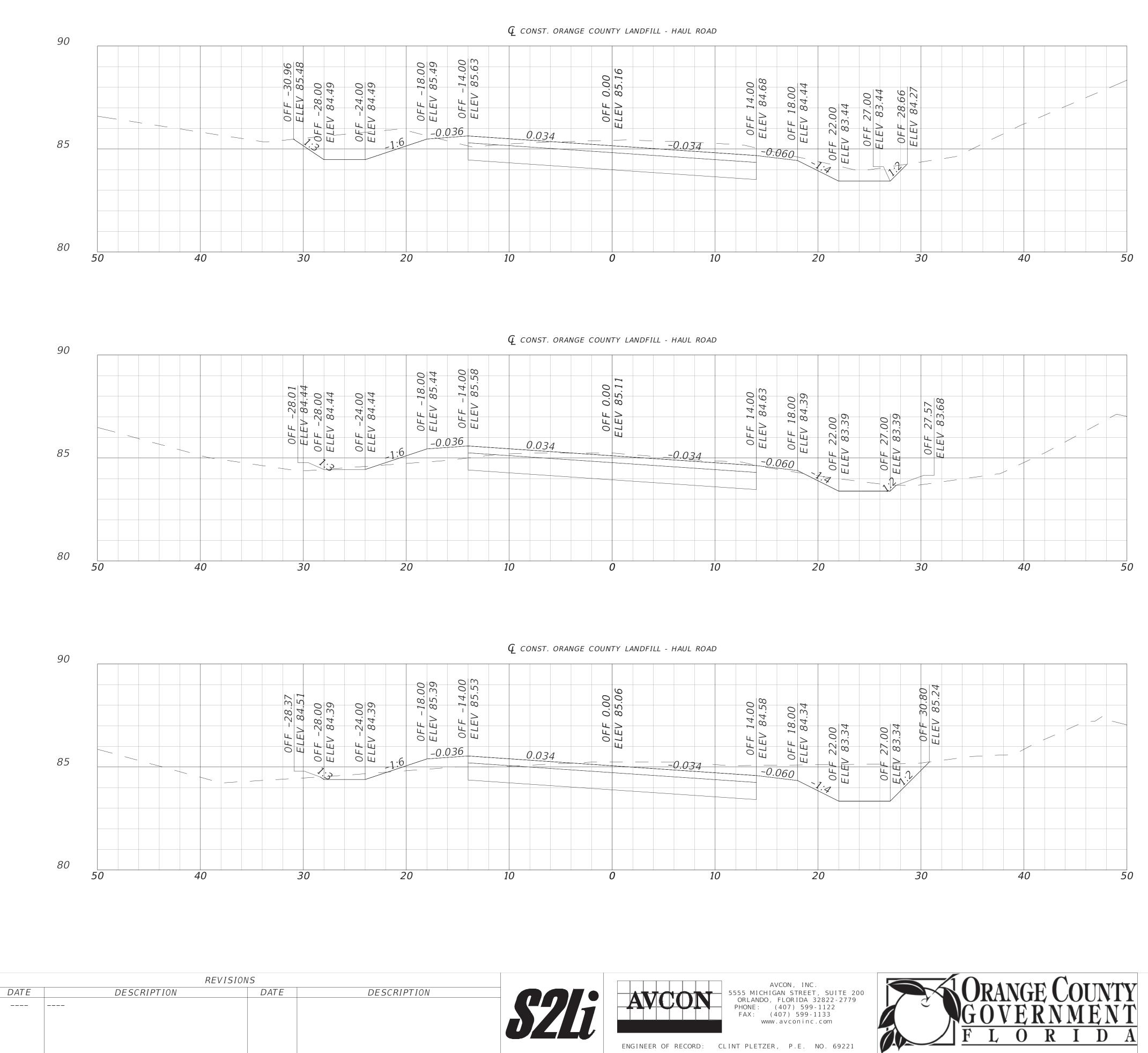
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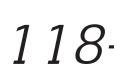


28

SHEET

NO.





4/19/2019 10:37:16 AM

120+00.00

119+00.00

118+00.00

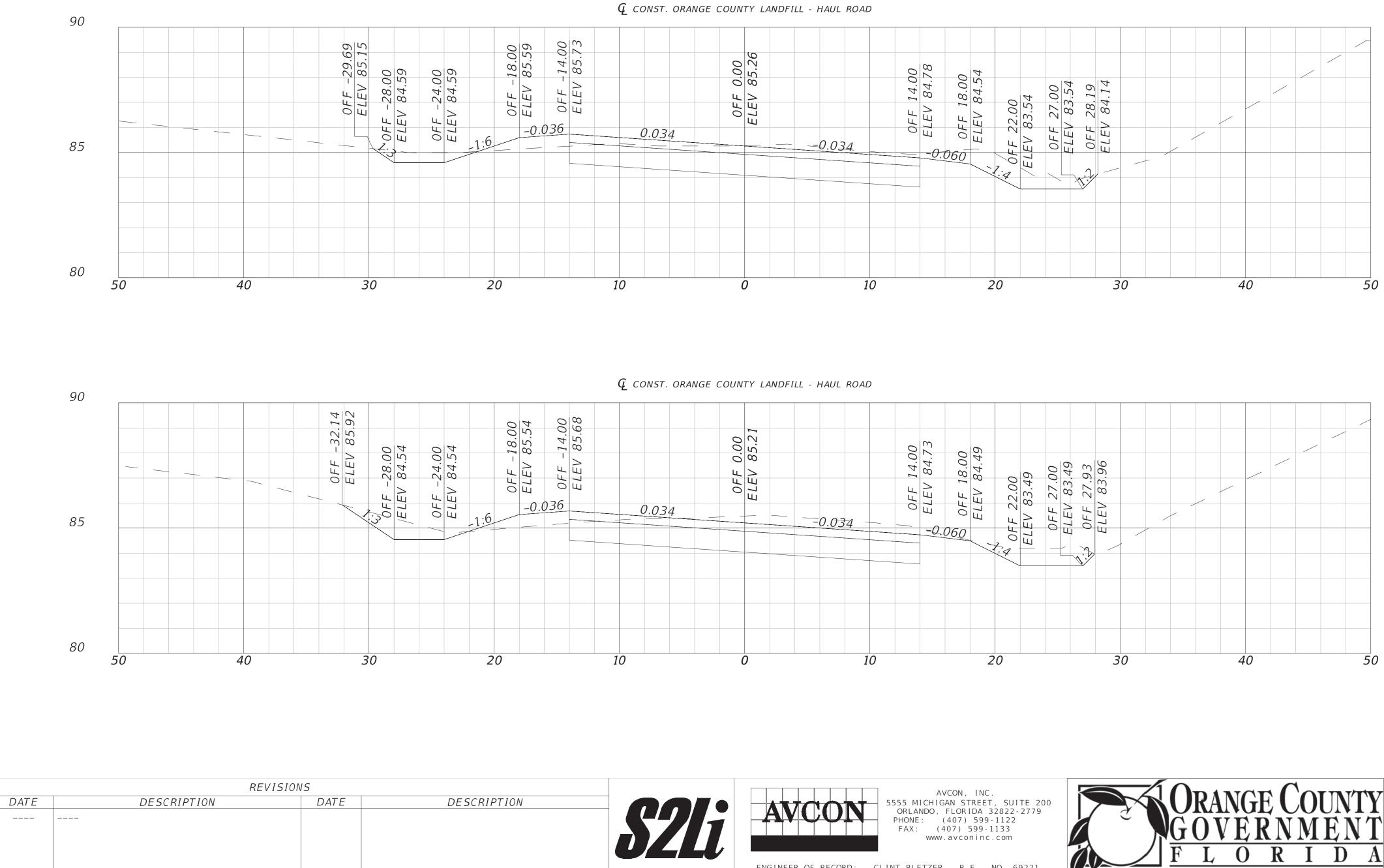
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29

SHEET

NO.



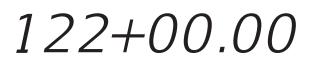




ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

WINARDI, CHRIS

4/19/2019 10:37:26 AM



121+00.00

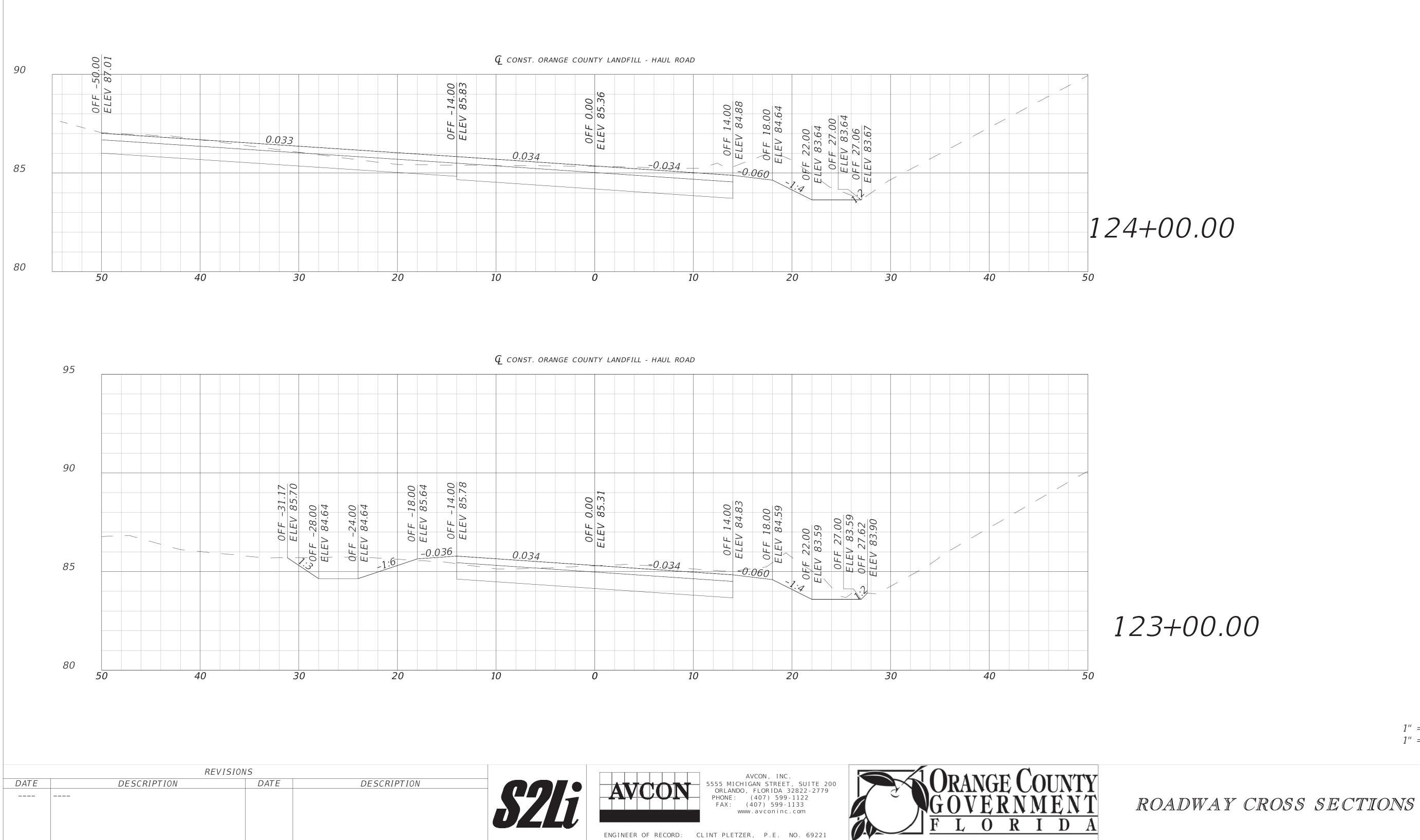
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30

SHEET

NO.





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WINARDI, CHRIS

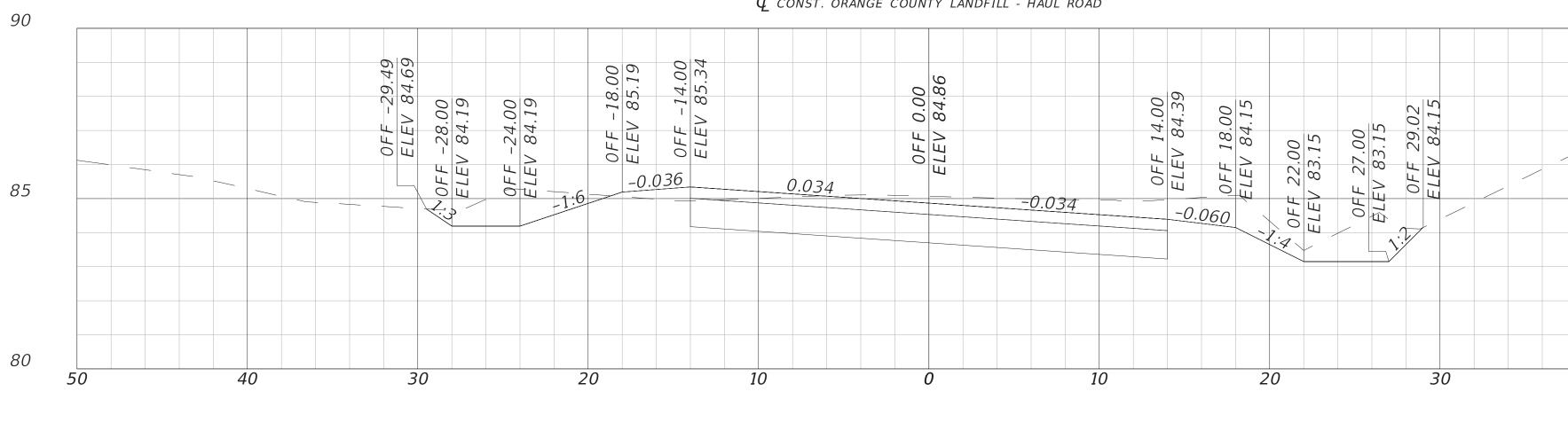


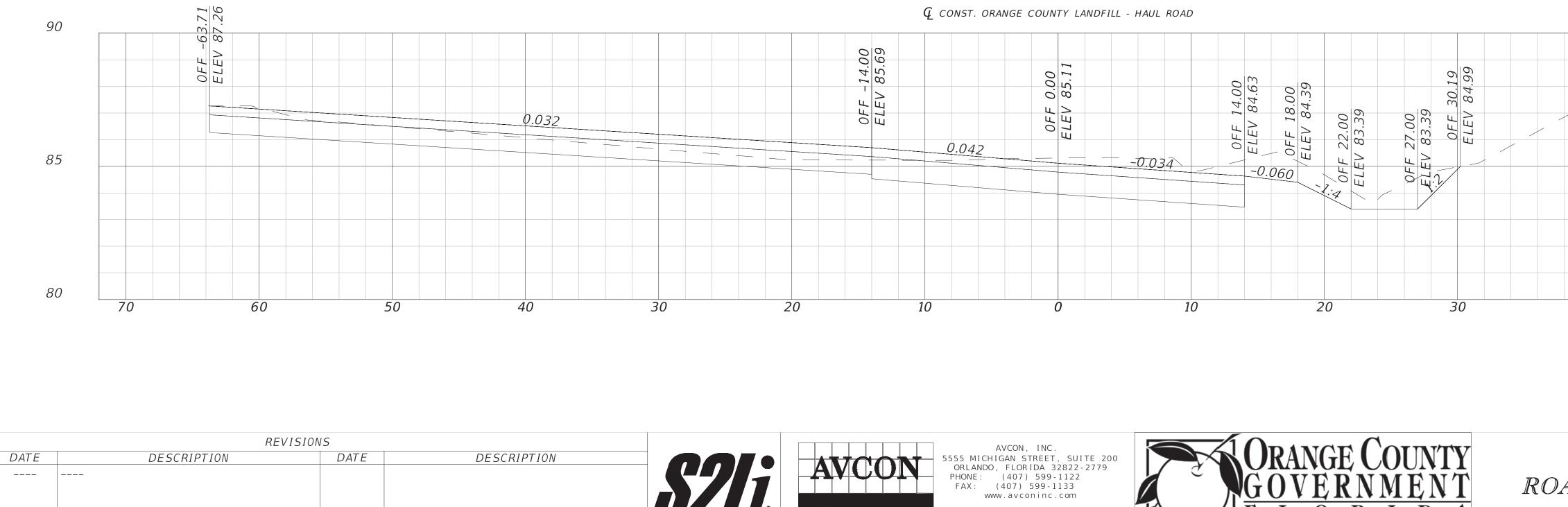
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31

SHEET

NO.







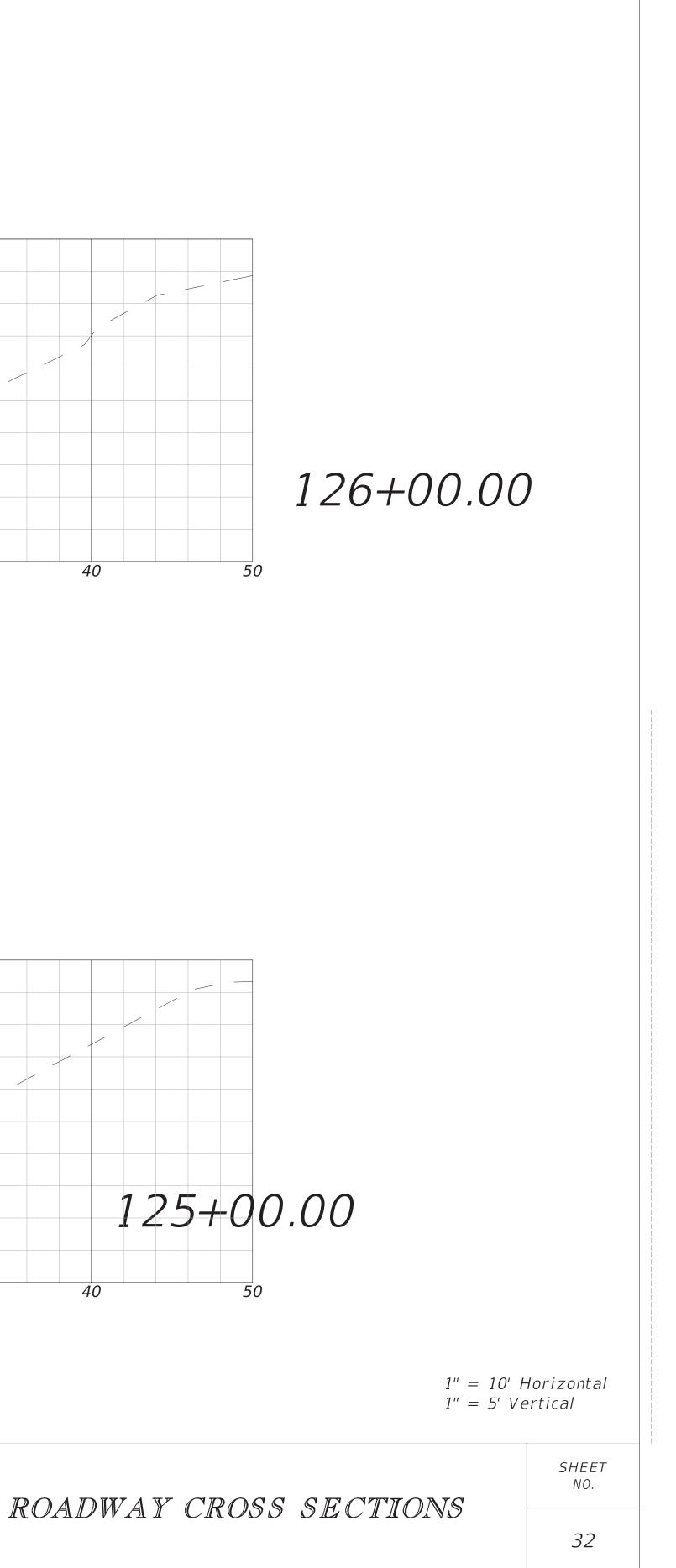
ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221



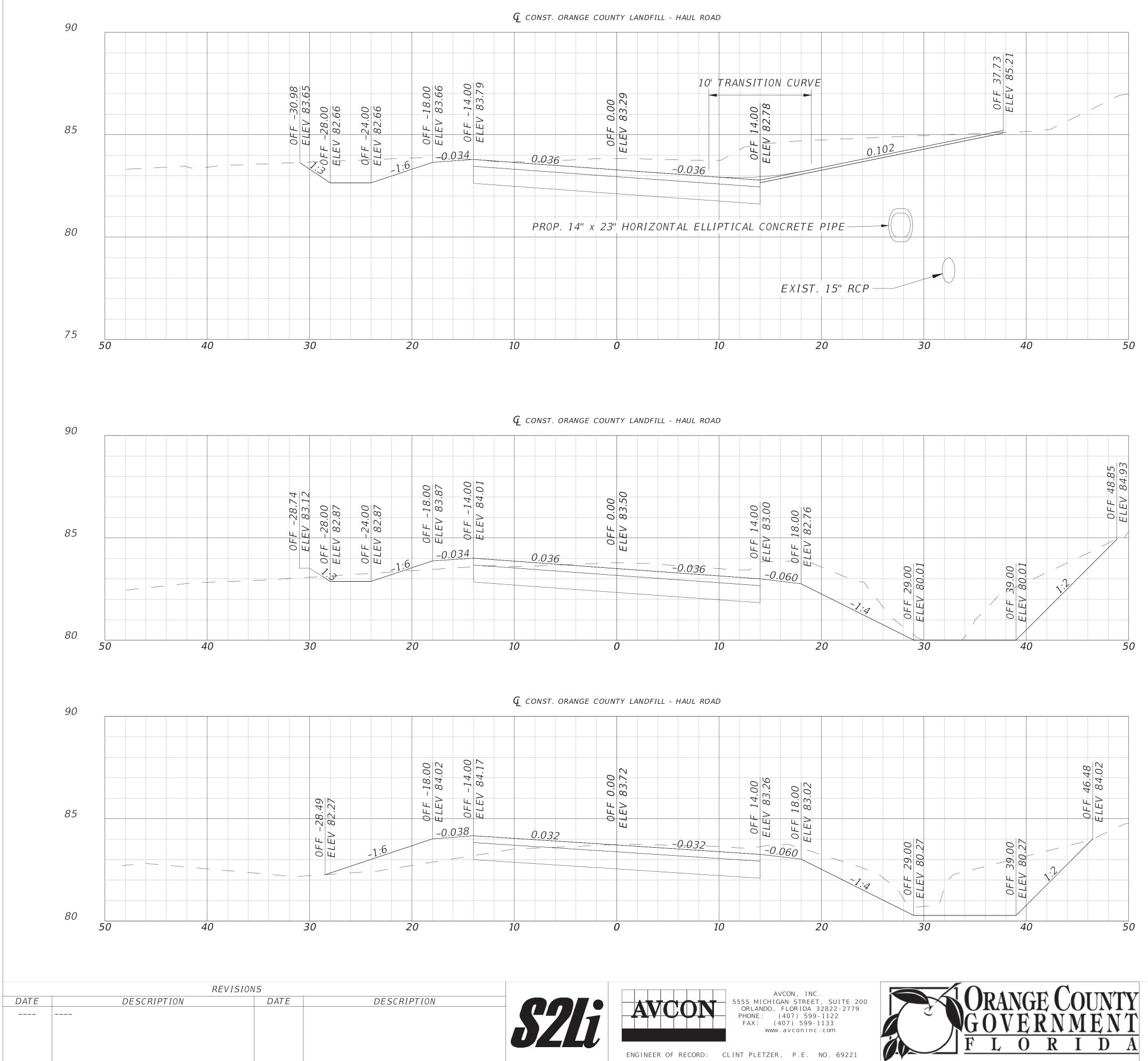
WINARDI, CHRIS

4/19/2019 10:37:46 AM

q const. orange county landfill - haul road



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4/19/2019 10:37:56 AM

139+00.00

138+00.00

137+00.00

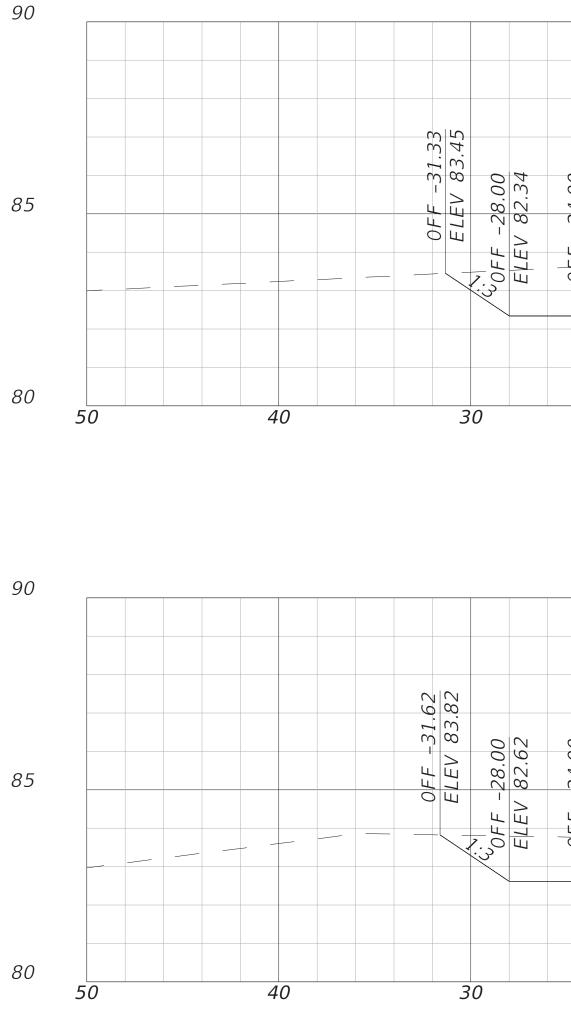
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33

SHEET

NO.



	RE	VISIONS		
DATE	DESCRIPTION	DATE	DESCRIPTION	S2





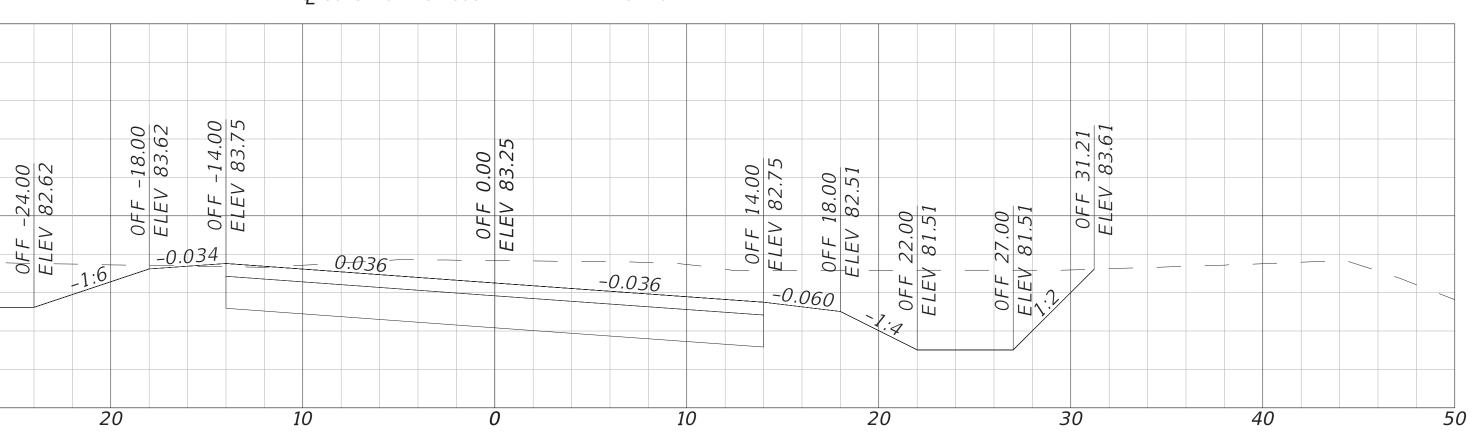
4/19/2019 10:38:06 AM



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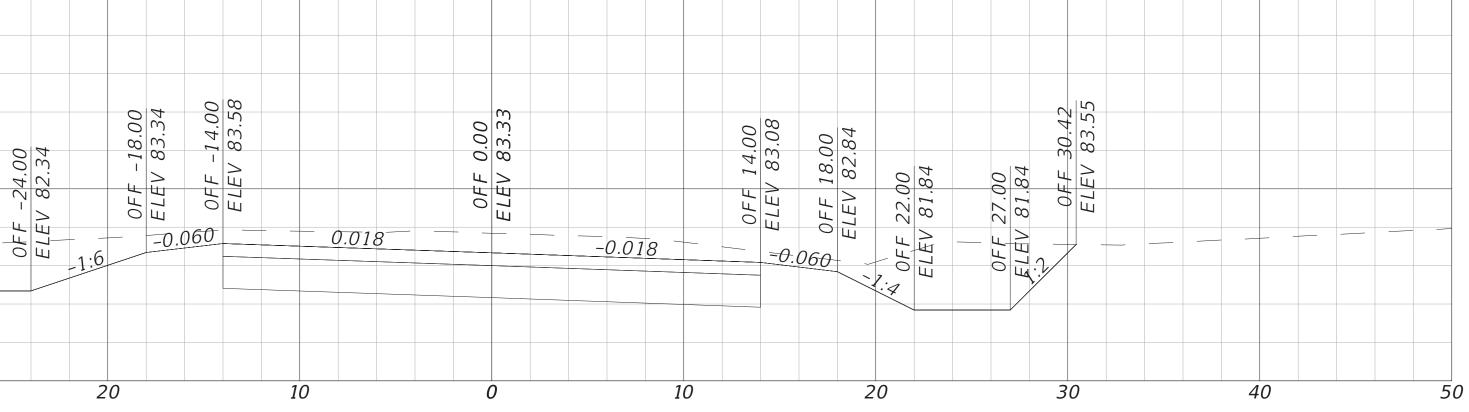
ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221





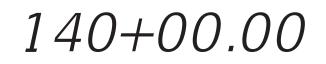
WINARDI, CHRIS

q const. orange county landfill - haul road



q const. orange county landfill - haul road

141+00.00

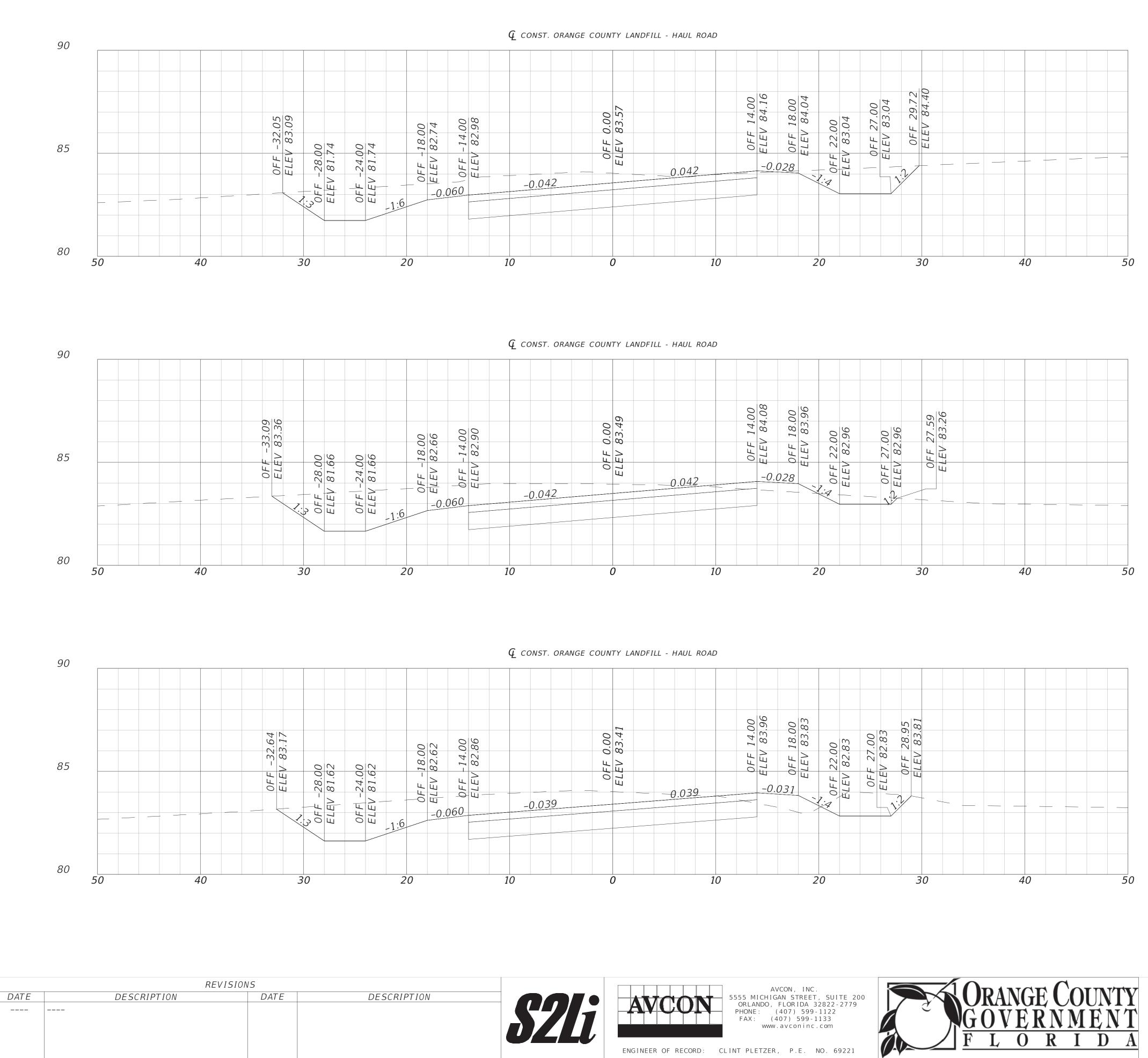


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ROADWAY CROSS SECTIONS

34

SHEET NO.



4/19/2019 10:38:16 AM

144+00.00

143+00.00

142+00.00

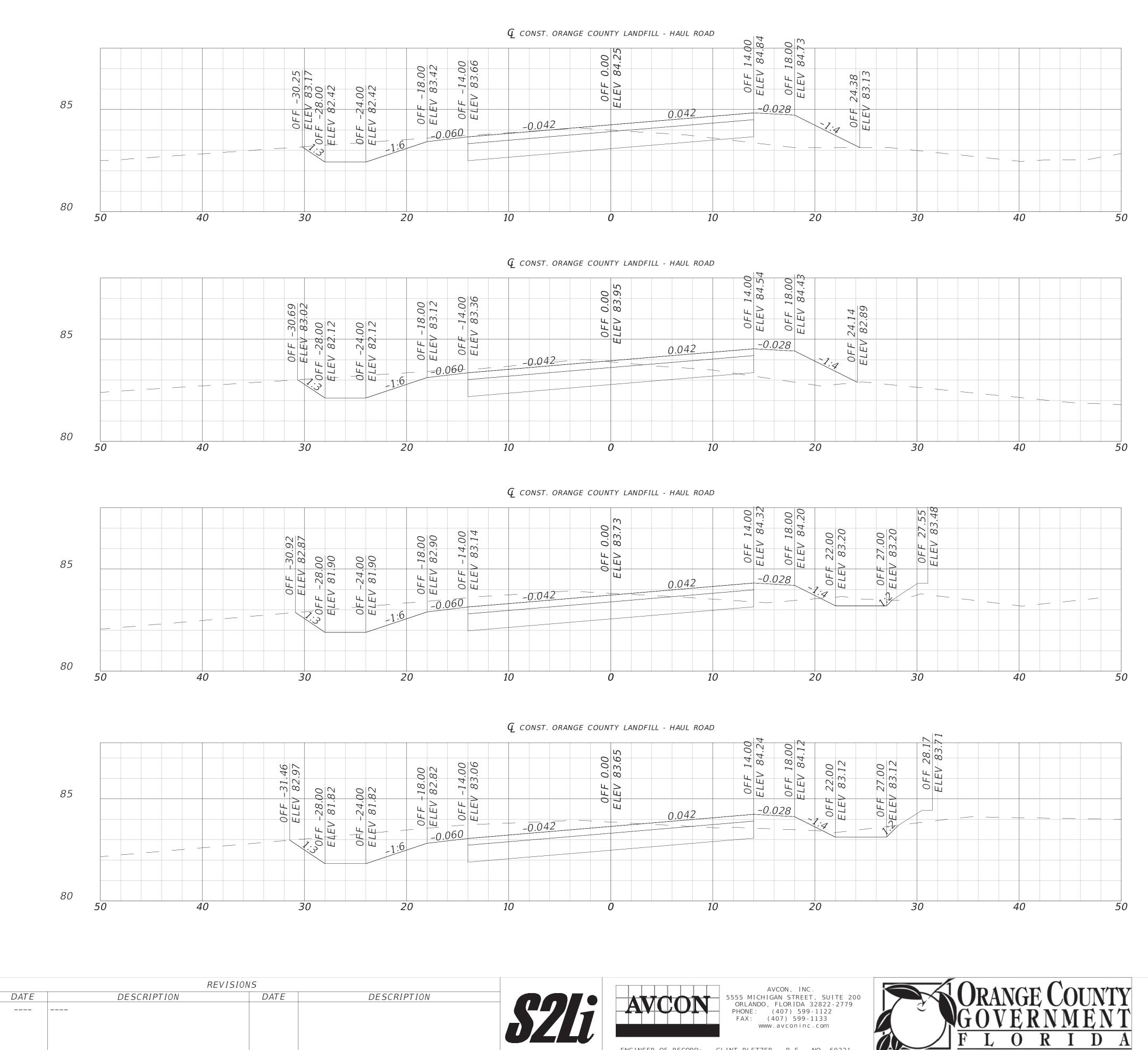
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35

SHEET

NO.





ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221



WINARDI, CHRIS

4/19/2019 10:38:26 AM



148+00.00

147+00.00

146+00.00

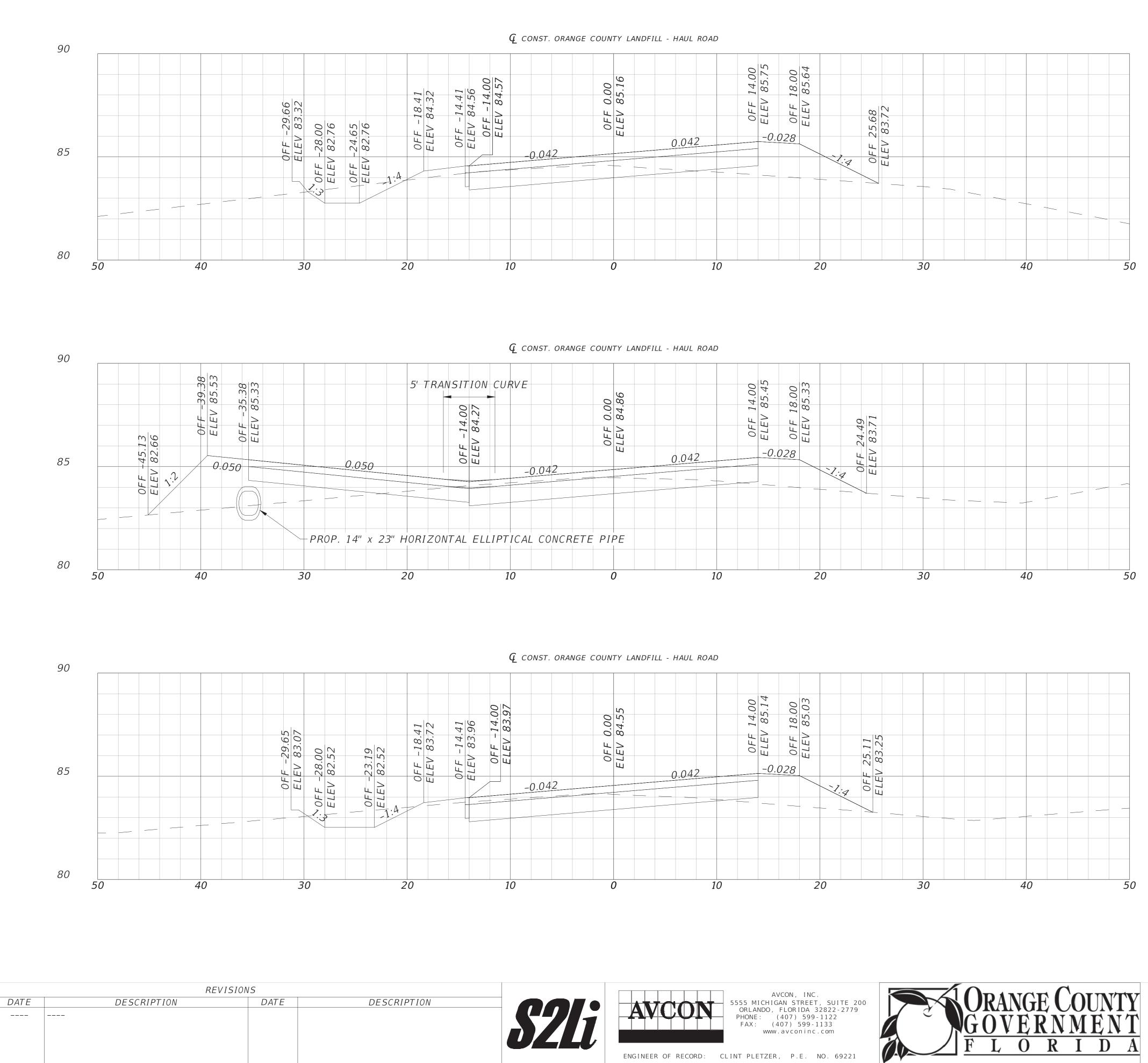
145+00.00

1" = 10' Horizontal 1'' = 5' Vertical

36

SHEET

NO.





4/19/2019 10:38:36 AM

151+00.00

150+00.00

149+00.00

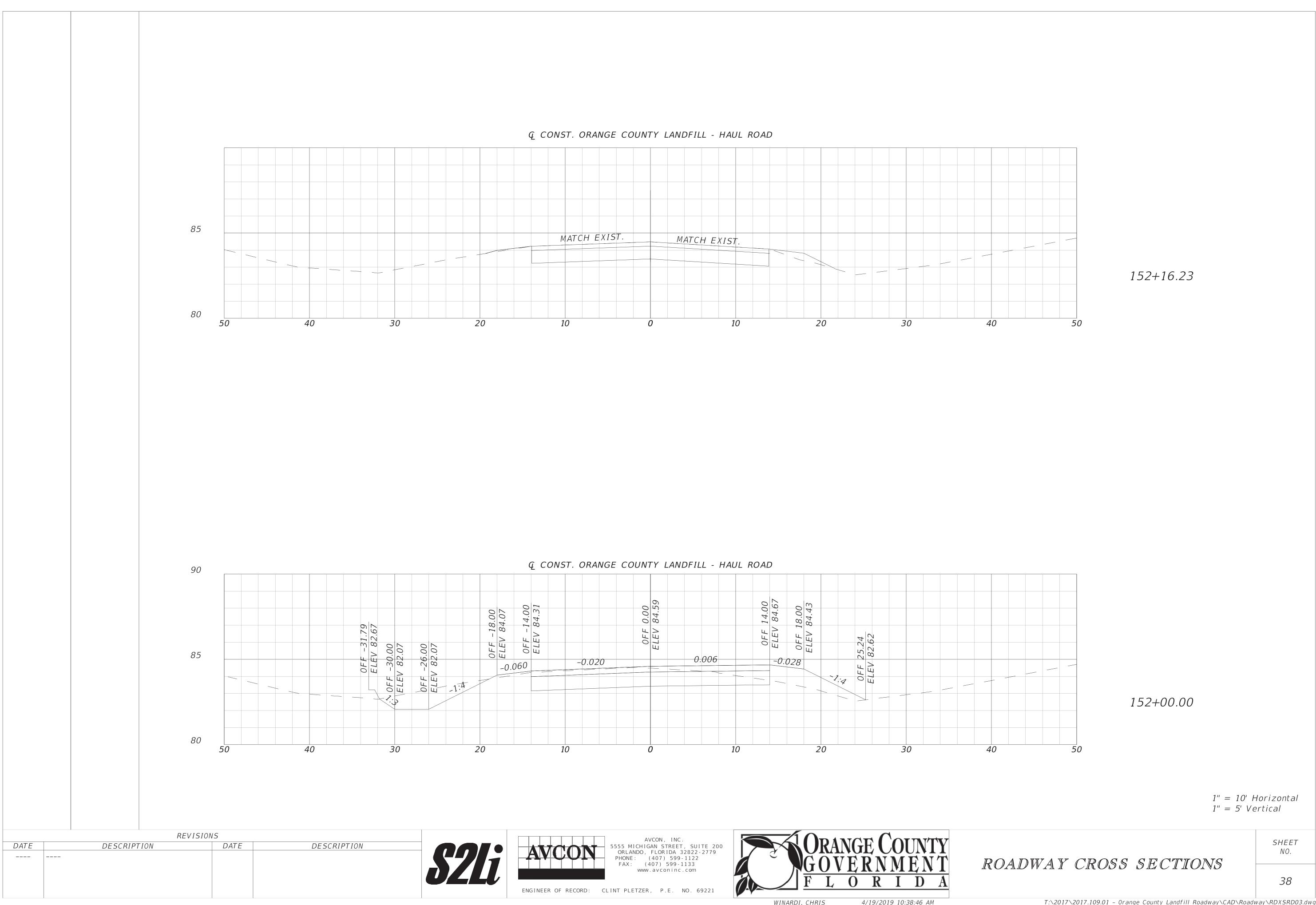
1" = 10' Horizontal 1" = 5' Vertical



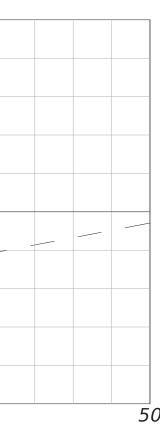
37

SHEET

NO.



4/19/2019 10:38:46 AM



PROJECT NO.: ROAD NO.: SUBMITTED BY:

AEA PROJ. NO. 201713-1 OC LANDFILL CLASS III CELL 2 ACCESS ROAD ANTILLIAN ENGINEERING ASSOCIATES, INC.

ORGANIC CONTENT SIEVE ANALYSIS RESULTS (% PASSING) ATTERBERG LIMITS (%)

STRATUM NO.	LBR VALUE	NO. OF TESTS	% ORGANIC	MOISTURE CONTENT %	NO. OF TESTS	#10 MESH	#40 MESH	#60 MESH	#100 MESH	#200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTICITY INDEX	AASHTO GROUP	DESCRIPTION O
1	15	2	4-7	22-23	14					5-9				A-3	BROWN, DARK BROWN, VERY DARK BROWN, DARK GRAYISH BROWN, VERY DARK GRAYISH BROWN AND DARK YELLOWISH BROWN, OCCASIONALLY GRAY, PALE BROWN, VERY PALE BROWN FINE SAND, OCCASIONALLY WITH ROOTS AND ORGANIC MATTER
2	16				7					3-5				A-3	PALE BROWN, BROWN, AND VERY PALE BROWN TO GRAY, DARK GRAY, VERY DARK BROWN AND GRAYISH BROWN, OCCASIONALLY DARK BROWN, DARK GRAYISH BROWN, BLACK AND LIGHT GRAYISH BROWN FINE SAND, OCCASIONALLY WITH ROOTS
3					5					11-20				A-2-4	BROWN AND VERY DARK BROWN SILTY FINE SAND
4		2	6-13	21-47	2					12				A-8	VERY DARK BROWN, VERY DARK GRAYISH BROWN AND BLACK SILTY FINE SAND WITH ORGANIC MATTER
5														A-3	DARK BROWN FINE SAND, OCCASIONALLY WITH ROOTS AND WOODY FIBER (POSSIBLE BURIED TREE)
														NO	TES
							1. THE	SYMBOL	"——", IF	PRESEN	T, REPRE	SENTS L	JNMEASURE[) SOIL PA	ARAMETERS.
							SHOW	/n are f	FOR ESTI	MATING E	ARTHWOF	rk only	AND DO N	ot indica	AT EACH BORING LOCATION ONLY. ANY SUBSOIL CONNECTIN ATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETW OT STANDARD SPECIFICATIONS.
							3. 🖉	- ENCO	UNTERED	GROUND	WATER L	evel at	THE TIME (of surve	Υ
							4	– ESTIM	ATED HIG	GH GROUN	NDWATER	LEVEL F	For paveme	ENT DESIG	GN PURPOSES ONLY
							5. GNE	– GROU	NDWATER	R NOT EN	COUNTER	ED			
							6. STRA	TUM 4,	STRATUM	15 AND,	any org	ANIC MA	ATERIAL ENC	OUNTERE	D DURING CONSTRUCTION SHALL BE REMOVED IN ACCORDANCI
							7. PLAS	tic mati	erial sh	IALL BE F	REMOVED	IF ENCO)UNTERED, I	N ACCOR	DANCE WITH FDOT STANDARD INDEX 500.
							8. ALL I	MATERIA	L USED I	n emban	kment c	onstru	CTION SHAL	L BE IN	ACCORDANCE WITH FDOT STANDARD INDEX 505.
							9. SUBS	SURFACE	VARIATIO	ons betw	VEEN BOR	RINGS SH	IOULD BE A	NTICIPATE	ED AS INDICATED IN SECTION 2–4 OF THE FDOT STANDARD S
				R E	VISION	5					PETER	G. SUAH,	P.E.		
DATE		DESC	CRIPTION		DATE			DESCRIPT	ION		P.E. LI	CENSE NO.	46910		UKANGE COUNTY
											3331 B		EERING ASSOC BOULEVARD	IALES, INC.	NGOVERNMENT RC

ROADWAY SOILS SURVEY REPORT OF TESTS

11/04/17, 1 DATE OF SURVEY: SURVEYED BY: ANTILLIAN ENG SURVEY BEGINS STA. NO.: 0+00 SURVEY ENDS STA. NO.: 152+00 12/04/17 DATE REPORTED:



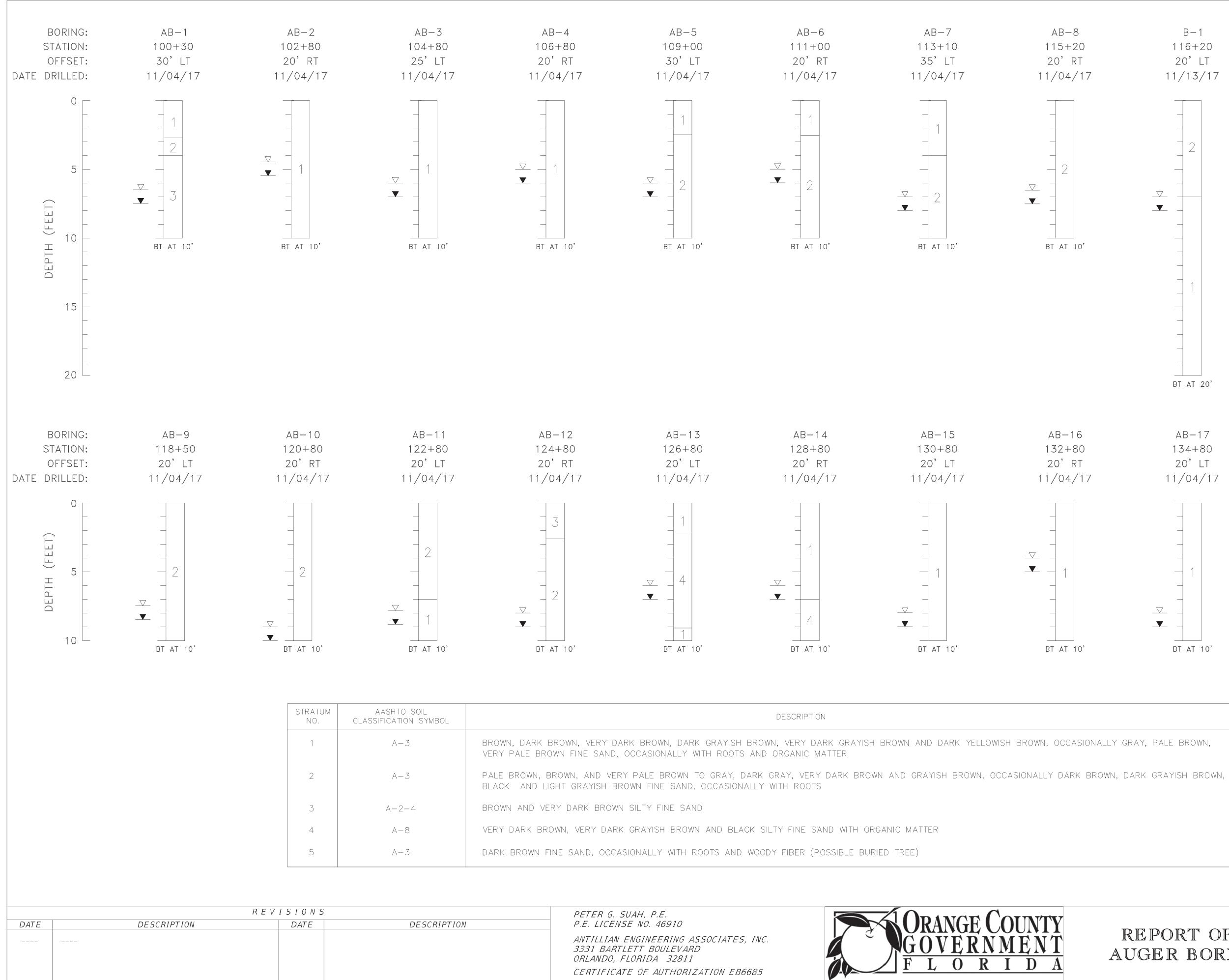
3331 BARTLETT BOULEVARD ORLANDO, FLORIDA 32811 CERTIFICATE OF AUTHORIZATION EB6685



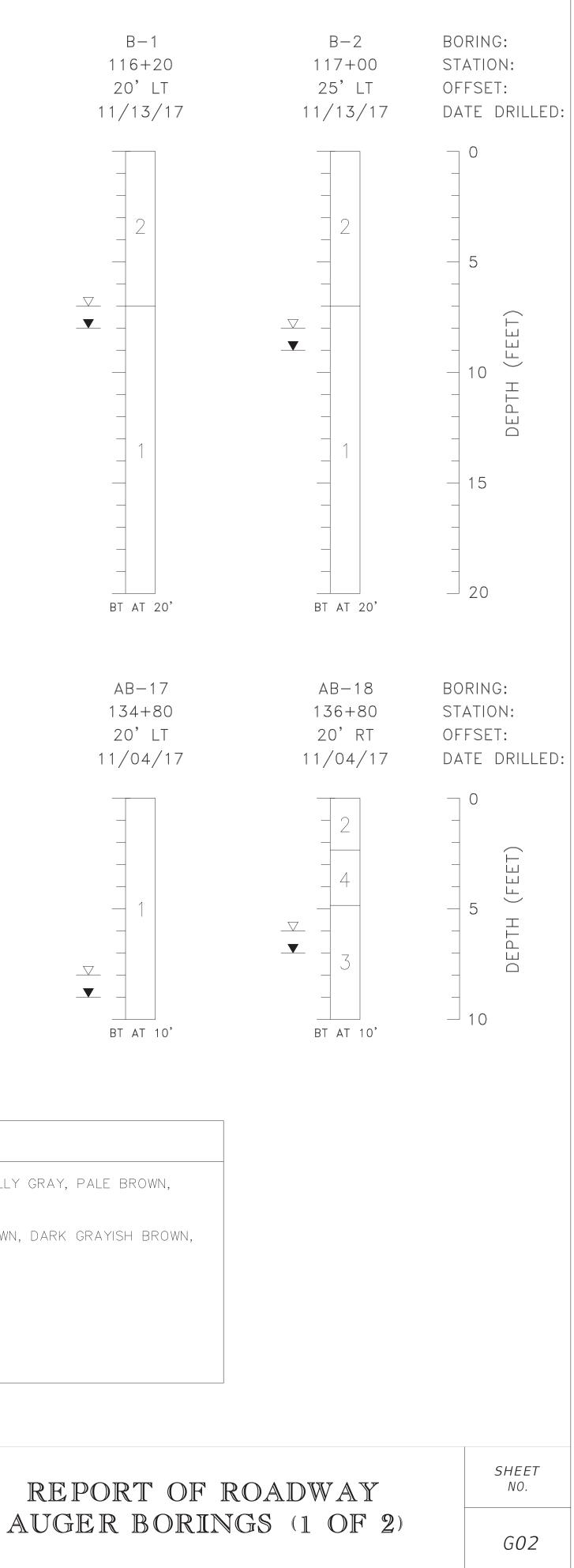
WINARDI, CHRIS

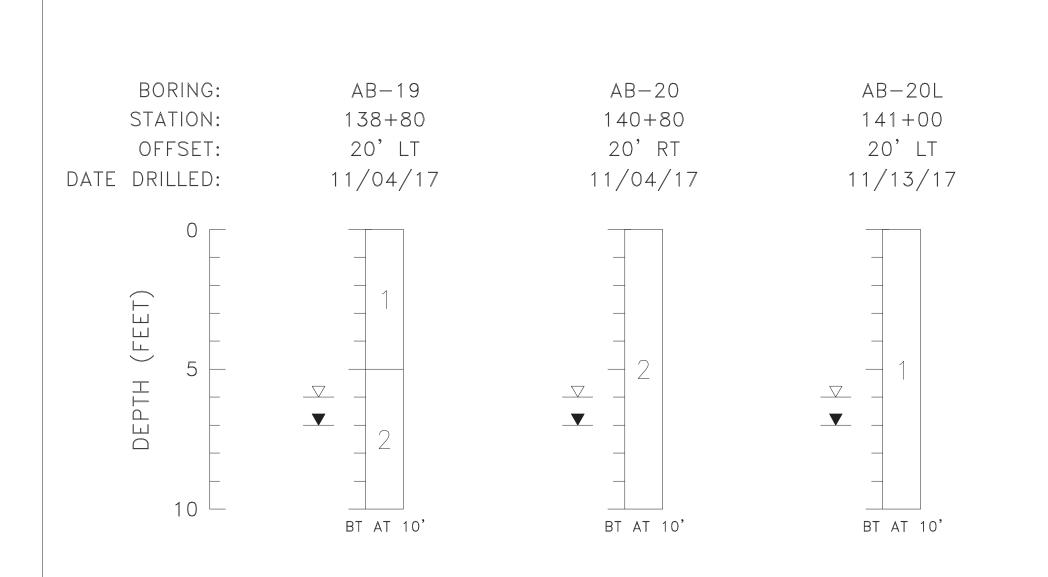
	RAN	/NSH IGE: TION	IP: 23 S 31 E : 15	
, 11/13/17 Engineering asso	CIATES,	INC.		
CORROSION TEST	RESUL	TS	ENVIRON CLASSIF (SUBSTRU	ICATION
RESISTIVITY CHLORIDES ohm-cm ppm	SULFATES ppm	рН	CONCRETE	STEEL
,),				
RAY,				
,				
NECTING LINES 5 Between Borings				
RDANCE WITH FDOT STAN	dard ind	EX 50)().	
ARD SPECIFICATIONS.				
ROADWAY SC	DILS S	UR	VEY	SHEET NO. GO1

4/19/2019 10:38:51 AM T:\2017\2017.109.01 - Orange County Landfill Roadway\CAD\Geotech\Landfill Cell 2 Access Road to AVCON.DWG



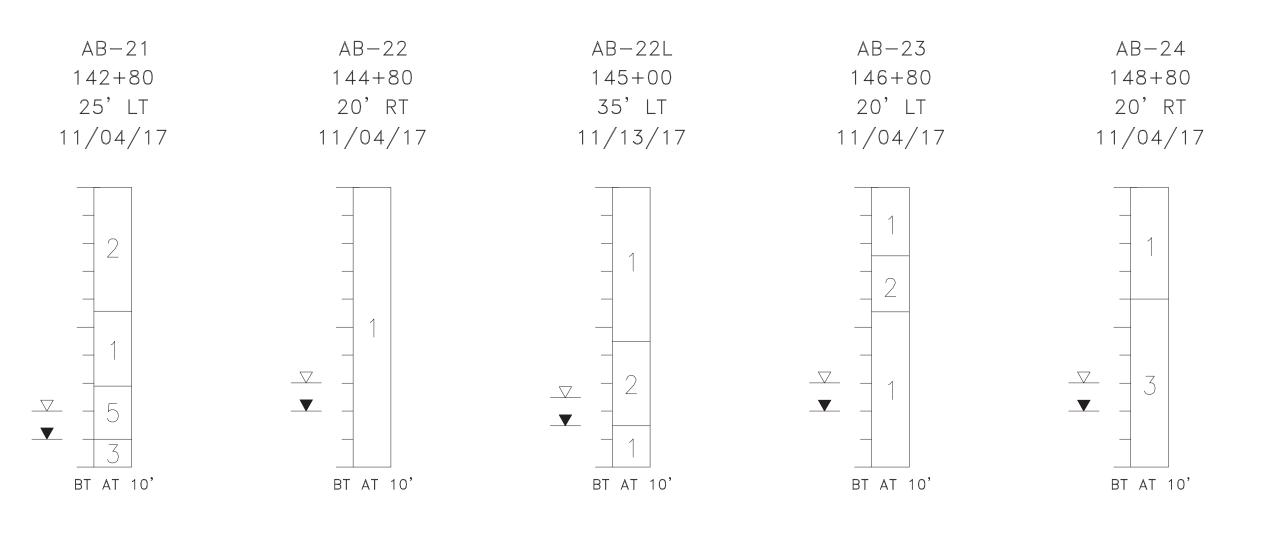
4/19/2019 10:38:54 AM T:\2017\2017.109.01 - Orange County Landfill Roadway\CAD\Geotech\Landfill Cell 2 Access Road to AVCON.DWG





STRATUM NO.	AASHTO SOIL CLASSIFICATION SYMBOL	
1	A-3	BROWN, DARK BROWN Very pale brown f
2	A-3	PALE BROWN, BROWN Black and light (
3	A-2-4	BROWN AND VERY D
4	A-8	VERY DARK BROWN,
5	A-3	DARK BROWN FINE S

		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION



DESCRIPTION

WN, VERY DARK BROWN, DARK GRAYISH BROWN, VERY DARK GRAYISH BROWN AND DARK YELLOWISH BROWN, OCCASIONALLY GRAY, PALE BROWN, I FINE SAND, OCCASIONALLY WITH ROOTS AND ORGANIC MATTER

WN, AND VERY PALE BROWN TO GRAY, DARK GRAY, VERY DARK BROWN AND GRAYISH BROWN, OCCASIONALLY DARK BROWN, DARK GRAYISH BROWN, T GRAYISH BROWN FINE SAND, OCCASIONALLY WITH ROOTS

DARK BROWN SILTY FINE SAND

VERY DARK GRAYISH BROWN AND BLACK SILTY FINE SAND WITH ORGANIC MATTER

SAND, OCCASIONALLY WITH ROOTS AND WOODY FIBER (POSSIBLE BURIED TREE)

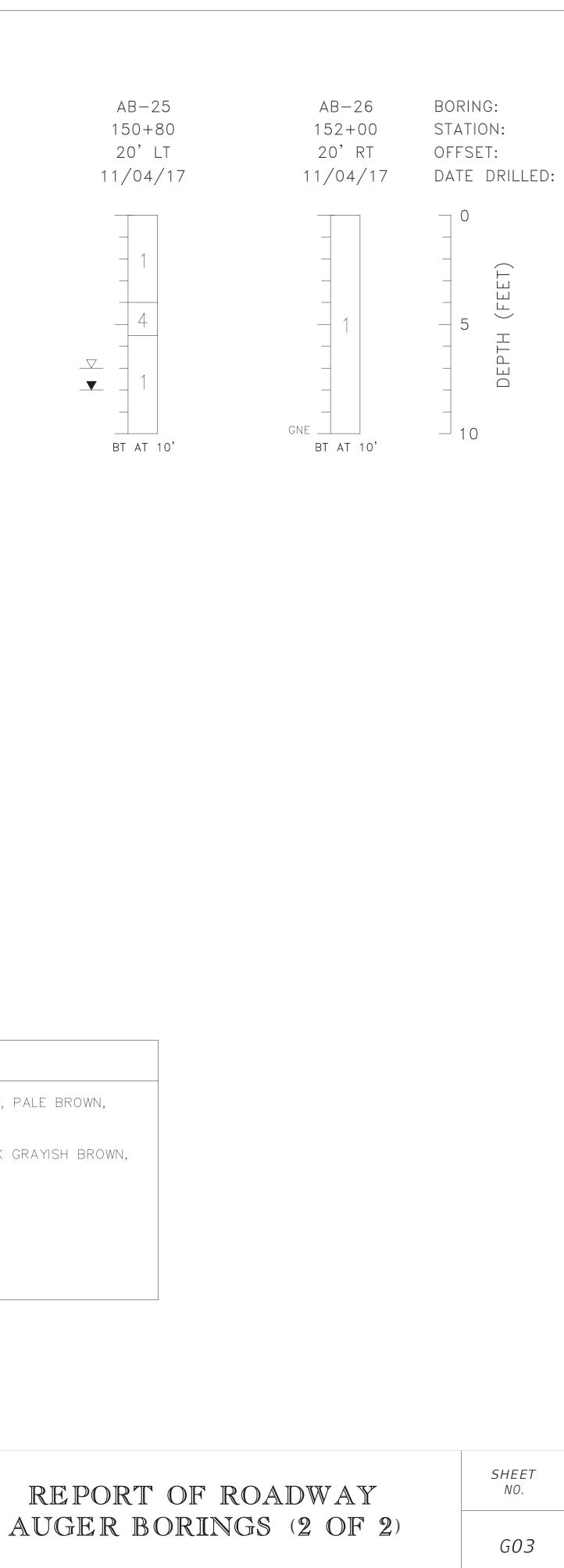


PETER G. SUAH, P.E. P.E. LICENSE NO. 46910

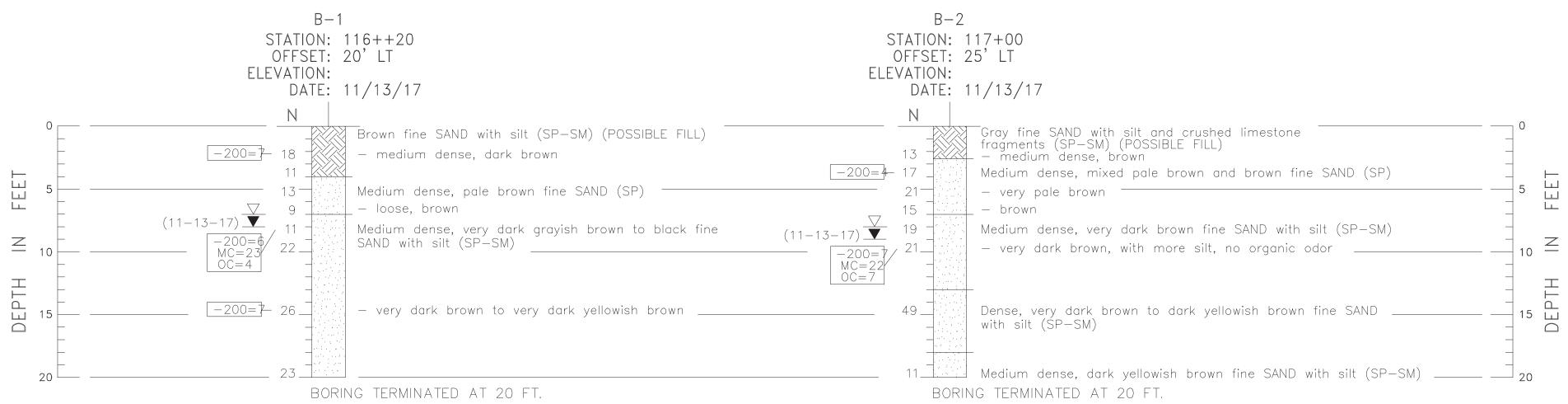
ANTILLIAN ENGINEERING ASSOCIATES, INC. 3331 BARTLETT BOULEVARD ORLANDO, FLORIDA 32811 CERTIFICATE OF AUTHORIZATION EB6685



WINARDI, CHRIS



4/19/2019 10:38:59 AM T:\2017\2017.109.01 - Orange County Landfill Roadway\CAD\Geotech\Landfill Cell 2 Access Road to AVCON.DWG



LEGEND		
POSSIBLE FILL SAND	N	STANDARD PENETRATION TEST (SPT) BORIN CHANGE IN SOIL STRATA SPT N-VALUE IN BLOWS PER FOOT (ASTM GROUNDWATER LEVEL ENCOUNTERED DURIN ESTIMATED SEASONAL HIGH GROUNDWATER UNIFIED SOIL CLASSIFICATION SYSTEM GROU BASED ON VISUAL EXAMINATION AND LABO PERCENT PASSING U.S. STANDARD NO. 200 NATURAL MOISTURE CONTENT IN PERCENT
	OC	ORGANIC CONTENT

		REVISIONS	
DATE	DESCRIPTION	DATE	DESCRIPTION

ING LOCATION

1 D 1586) ING DRILLING R LEVEL

OUP SYMBOL BORATORY TESTS 00 SIEVE

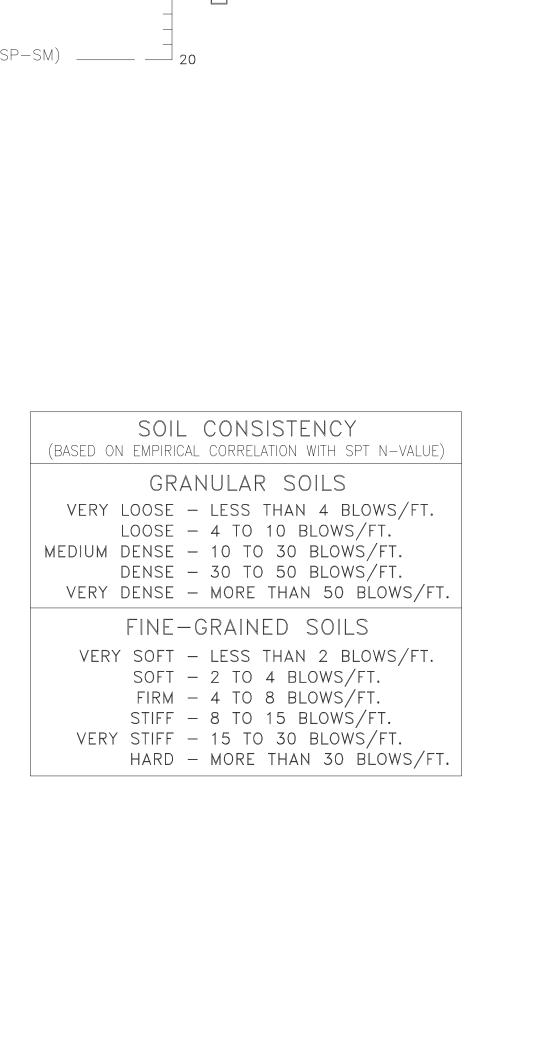
NOTES

- 1. PLAN VIEW IS PRELIMINARY FOR SHOWING BORING LOCATIONS ONLY AND MAY NOT BE INDICATIVE OF FINAL PLAN.
- 2. BORINGS WERE DRILLED BY RELIABLE FIELD SERVICES ON 11/13/17 USING A BR2500 RIG. SPT WAS CONDUCTED WITH A SAFETY HAMMÉR.

PETER G. SUAH, P.E. P.E. LICENSE NO. 46910 ANTILLIAN ENGINEERING ASSOCIATES, INC. 3331 BARTLETT BOULEVARD ORLANDO, FLORIDA 32811 CERTIFICATE OF AUTHORIZATION EB6685



WINARDI, CHRIS



REPORT OF SPT BORINGS

SHEET NO.

G04

4/19/2019 10:39:04 AM T:\2017\2017.109.01 - Orange County Landfill Roadway\CAD\Geotech\Landfill Cell 2 Access Road to AVCON.DWG

BOX CULVER

				BOX, F	IEADWA	ll and	CUTOF	F WALL	DATA T	ABLE (ir	nches ui	nless sh	own oth	nerwise)						
LOCATION	STRUCTURE /BRIDGE					BOX								HEADW	ALL AND	Ο Ο Ο Ο Ο Ο	FF WALL			
LOCATION	NUMBER	Wc(ft)	Hc(ft)	Τt	Τw	Тb	Тi	#cells	Lc(ft)	Cover	Blhw	HIhw	Brhw	Hrhw	Blcw	HIcw	Brcw	Hrcw	SL(deg)	SR(deg)
		6	4	8	8	8	8	1	81	2	14	24	14	24	12	24	12	24	29	29

				LEF	T SIDE	WINGWA	ALLS DA	TA TABI	E (inche	s unles	ss show	n otherw	vise)					
STRUCTURE				LEF	T END V	VINGWA	LL					L	LEFT BE	GIN WI	NGWALL			
/BRIDGE NUMBER	Rt	Rw	Rh	Rd	SW(deg)	β(deg)	He(ft)	Hs(ft)	Lw(ft)	Rt	Rw	Rh	Rd	SW(deg)	β(deg)	He(ft)	Hs(ft)	Lw(ft)
	18	8	36	16	119	26.6	6	6	10	18	8	36	16	61	26.6	6	6	10

				RIG	HT SIDE	WINGW	ALLS DA	ATA TAB	BLE (inch	nes unle	ss show	n other	wise)					
STRUCTURE				RIG	HT END	WINGW	ALL					F	RIGHT E	BEGIN WI	NGWAL	L		
/BRIDGE NUMBER	Rt	Rw	Rh	Rd	SW(deg,	β(deg)	He(ft)	Hs(ft)	Lw(ft)	Rt	Rw	Rh	Rd	SW(deg)	β(deg)	He(ft)	Hs(ft)	Lw(ft)
	18	8	36	16	61	26.6	6	6	10	18	8	36	16	119	26.6	6	6	10

							ES	STIMAT	ED CON	CRETE	QUANTI	TIES (CY	<i>(</i>)							
STRUCTURE				BC	DX				LEFT END WINGWALL			LEFT BEGIN WINGWALL			RIGHT END WINGWALL				GHT BEC 'INGWAL	
/BRIDGE NUMBER	Left Cutoff Wall	Right Cutoff Wall	Bottom Slab	Walls	Top Slab	Left Head Wall	Right Head Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total	Footing	Wall	Sub Total
	0.414	0.414	15.2	16	14.7	0.483	0.483	47.8	8 2.8	1.48	4.28	2.68	1.48	4.16	2.68	1.48	4.16	2.8	1.48	4.28

	MAIN STEEL REINFORCEMENT SPACING (inches)																		
STRUCTURE				В)X											HEAD	VALLS	CUTOFF	WALLS
/BRIDGE NUMBER	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115, 116	803	806	809	812
	9	9	9	9	9	9	9	9	12	12	12	12	12	12	12	12	12	15	15

STRUCTURE	LEFT END WINGWALL									left be	GIN WI	NGWALL					RIGHT I	END WI	NGWALL				F	RIGHT B	EGIN W	INGWAL	-						
/BRIDGE NUMBER	401 407(8)	402 (403)	404 (405)	406	409	410	411	501 507(8)	502 (503)	504 (505)	506	509	510	511	601 607(8)	602 (603)	604 (605)	606	609	610	611	701 707(8)	702 (703)	704 (705)	706	709	710	711					
	8	8	12	8	12	12	12	8	8	12	8	12	12	12	8	8	12	8	12	12	12	8	8	12	8	12	12	-					

	NEVISIO			
DATE	DESCRIPTION	DATE	DESCRIPTION	

RT	DATA	TABLES

NOTES:

- 4. SOIL PROPERTIES: FRICTION ANGLE = 30°





AVCON, INC. 5555 MICHIGAN STREET, SUITE 200 ORLANDO, FLORIDA 32822-2779 PHONE:(407) 599-1122 FAX:(407) 599-1133 www.avconinc.com





WINARDI, CHRIS

4/19/2019 10:39:14 AM

1. ENVIRONMENTAL CLASS: MODERATELY AGGRESSIVE

2. REINFORCING STEEL, GRADE 60

3. CONCRETE CLASS IV, f'c = 5.5 ksi

MODULUS OF SUBGRADE REACTION = 150 pci NOMINAL BEARING RESISTANCE = 4000 PSF

5. WORK THIS DRAWING WITH FDOT STANDARD PLANS INDEX NO. 400-289 AND REINFORCING BAR LIST, SHEET NO. SO2 & SO3

6. SETTLEMENT CRITERIA FOR PRECAST BOX CULVERT OPTION (INDEX NO. 29 LONG TERM DIFERENTIAL SETTLEMENT (ΔY) = 0.083 ft. EFFECTIVE LENGTH FOR SETTLEMENT (L) = 81 ft.

> CONCRETE BOX CULVERT TABLE OF VARIABLES

SHEET NO.

S01

MAF	RK	LENGTH	/	NO	ΤΥΡ	STY		В		С		D		E		F		Н		J		K	N	Ø
SIZE		FT IN									R FT	IN FR	FT				R FT		FR					
		LC	JCA	ATION		Λ	1A I N	BOX							NC). REG	QUIR	ED =	- 1					
	1 0 1			101	1																			
5	<i>101</i> <i>201</i>	7(104	1			-0 -41/4																
	201	<u> </u>		4	1			$\frac{-4}{3}\frac{1}{4}$																
5	301	VARY		4	1			$- 4 \frac{1}{4}$																
		3- 4		0	1			3 1/4																
5	102	7- (104	1			- 0																
5	202	VARY		4	1			$- 4 \frac{1}{4}$																
5	302	3– 4 VARY		0	1			3 1/4 - 4 1/4																
	502	<u> </u>		0	1		1	$\frac{4}{3}\frac{1}{4}$																
5	103	7- (108	1			- 0																
5	203	VARY	/	4	1			- 4 1/4																
		3-4		0	1			3 1/4																
5	303	VARY		4	1			$- 4 \frac{1}{4}$																
5	104	<u> </u>		0 108	1			3 1/4 - 0																
5	204	VARY		4				- 4 1/4																
		3- 4		0	1			3 1/4																
5	304	VARY		4	1			- 4 1/4																
	4.0.5	3-4		0	1			3 1/4																
5	105	5-2		216	<u> </u>			- 9 - 9		- 4 <u>;</u> - 4 ;														
5	106 108	<u> </u>		216 216	10			- 0		/	/2													
3	109	85- (8	2			3 1/2	83	3- 8														1
3	110	82- (8	2		1 -	3 1/2	80)- 8														1
3	111	81-4		8	2			3 1/2		- 0 /	4											1		
3	112	85- (82- (8	<u>2</u> 2			$\frac{3 \frac{1}{2}}{3 \frac{1}{2}}$		3- <u>8</u>)- <u>8</u>														1
3	<i>113</i> <i>114</i>	82- (10	2			$\frac{3}{3}\frac{1}{2}$) - 8														1
				10																				
		LC	JCA	ATION		L	EFT	END W	INGV	VALL					NO	. REQ	<u>UIRE</u>	ED =	1					
	101		0	1.0	1																			
4	401 402	<u> </u>		16 10	<u>_</u>			- 9 - 8																
4	404	9- 8		7	1			- 8																
4	406	5- 9		1 1	1			- 9																
4	407	4- 5		16	10			- 10	2	2-7	_													
4	409	4-10		11	1			- 10																
4	410 411	<u>4- 1(</u> <u>9- 8</u>		11 12	<u> </u>			- 10 - 8																
5	412	2- (10	1			- 0																
			_		¥			-																
	I	LC	JCA	ATION			EFT	BEGIN	WIN	VGWAL					NO	. REQ	UIRE	=D =	1					
4	501	<u> </u>		16	1			- 9 - 8																
4	502 504	9- č 9- č		<i>10</i> 7	1			- 8 - 8																
4	506	5- 9		1 1	1			- 9																
4	507	4- 3		16	10		1	- 10	2	2- 7											 			
4	509	4- 10		11	1			- 10																
4	510	4- 10		11	1			- 10																
4	511 512	<u> </u>		<i>12</i> <i>10</i>				- 8 - 0																
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		NS	REVISIO	
	DESCRIPTION	DATE	DESCRIPTION	DATE
52				

NOTES:

1. Reinforcing Steel, Grade 60

2. Work this Drawing with FD0T Standard Plans Index 400–289 and 415–001 and Sheet Nos. S01 & S03





WINARDI, CHRIS

4/19/2019 10:39:20 AM

CONCRETE BOX CULVERT REINFORCING BAR LIST

SHEET NO.

S02

MAH		LENGTH	NO		STY		В		С			D		Ε		F		Н			J			Κ	N	
SIZE	DES	FT IN									FT	IN FR	FT	IN FR						FT	IN	FR	FT	IN	$= R \mid NC$) AN
		LO	CATION	/	F	r <i>ight</i>	ENL) WIN	IGWA	LL					NO	. REQ	UIRE	=D =	=	1						
4	601	5- 9	16	1		5	- 9																			
4	602			1			- 8																			
4	604	9- 8		1			- 8																			
4	606	5- 9	1 1	1		5	- 9																			
4	607	4- 5		10			- 10		2-	7																
4	609	4- 10		1			- 10																			
4	610	<u>4- 10</u> 9- 8		1			- 10 - 8																			
4	611 612	<u> </u>					- 0																			
		2 0	10																							
		LO		/	ļ	RIGHT	BEC	GIN N	VING	GWAL L	<u>/</u>				ND	. REQ	UIRE	=D =	= ĵ	1						
4	701	5- 9		1			- 9																			
4	702	9-8		1			- 8																			
4	704 706	9- 8 5- 9		1			- 8 - 9																			
4	707	<u> </u>					- 9 - 10)	2-	7																
4	709	4- 10		1			- 1C			•																
4	710	4- 1 <i>C</i>	1 1	1		4	- 10																			
4	711	9- 8		1			- 8																			
5	712	2- 0	10	1		2	- 0																			
			 CATION	 /	/		HENI	 DWALL								. REG		FD		1						
		LO														. //										
6	801	8- 1	2	1		8-	- 0 /	/2																		
6	802	8- 1	2	1			- 0 /																			
3	803	5-2	9	27		1 -	7 1/2	2 0)- 6		0-	4	0-	- 5	1 -	$2\frac{1}{2}$	0)- 8	3	0-	- 8					
10	0	0- 0	0	0																						
			 CATION		F	 ? <i>TGH</i> 1		1 DWAL	/						<u> </u> N/Л	. REQ)	FD		1						
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6	804	8- 1	2	1		8-	- 0 /	/2																		
6	805	8- 1		1			- 0 /																			
3	806	5-2		27		1 -	7 1/2	2 0)- 6		0-	4	0-	- 5	1 -	$2\frac{1}{2}$	0)- 8	3	0-	- 8					
10	0	0- C	0	0																						
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3	807	8- 1	2	1			- 0 /																			
3	808	8- 1	2	1			- 0 /																			
3	809	4-11	7	7		1 -	- 7 /	2 () - 8	3	0	- 6	0	- 6												
10	0	0- 0	0	0																						
					F	l 7 <i>1 GH</i> 1	CU	TOFF	WAI						 N_/7	. REQ	 •U T R F	- - - -	=	1						
3	810	8- 1	2	1			- 0 /		_	_							_	_	_		_		_	_		
3	811	8- 1	2	1		-	- 0 /																			
	812	<u>4-11</u> 0- C	7	7 0		1 -	- 7 /	2 () - 8	3	0	- 6	0	- 6												_
3 10	0	/	/ /	. (]		1		1			1		1		1		1			T						

	RE	/ISIONS		
DATE	DESCRIPTION	DATE	DESCRIPTION	

1. Reinforcing Steel, Grade 60

2. Work this Drawing with FD0T Standard Plans Index 400–289 and 415–001 and Sheet Nos. S01 & S02



AVCON, INC. 5555 MICHIGAN STREET, SUITE 200 ORLANDO, FLORIDA 32822-2779 PHONE:(407) 599-1122 FAX:(407) 599-1133 www.avconinc.com



WINARDI, CHRIS

4/19/2019 10:39:25 AM

CONCRETE BOX CULVERT REINFORCING BAR LIST

SHEET NO.

S03