#### **MULTI-USE PATH CONSTRUCTION PLANS** INDEX OF MULTI-USE PATH PLANS - PHASE I SHEET NO. DESCRIPTION LAKE MONROE TRAIL LOOP **KEY SHEET** SIGNATURE SHEET PENSACOLA 2 3 SUMMARY OF PAY ITEMS SEMINOLE COUNTY, FL - PHASE I DRAINAGE MAPS 4 To 12 SUMMARY OF DRAINAGE STRUCTURES 13 CPH PROJECT No. S0989 14 TYPICAL SECTIONS PROJECT LOCATION PROJECT LAYOUT 15 To 18 LINE & CURVE TABLE 19 To 20 FINANCIAL PROJECT ID: 444628-1-58-01 & 444628-2-62-01 21 To 22 **GENERAL NOTES** 23 To 65 PLAN & PROFILE FPN: D522 084 B DRIVEWAY DETAILS 66 BEGIN PROJECT MID-BLOCK CROSSING DETAILS 67 BEGIN CONSTRUCTION BEGIN CONSTRUCTION - TRAIL END PROJECT 68 To 71 RAISED CROSSWALK DETAILS END EXCEPTION END CONSTRUCTION - TRAIL STA. 20+29.66 (\(\mathbb{E}\)SURVEY) 72 **GENERAL DETAILS** STA. 69+74.39 (\(\mathbb{E}\)SURVEY) STA. 144+41.09 (**Q**SURVEY) 73 USGS QUADRANGLE AND NRCS SOIL SURVEY MAPS STA. 500+00.00 (& CONST.) **BORING LOCATION PLAN** 74 To 83 STA. 548+57.10 (\$\overline{4}\) CONST.) STA. 623+42.99 ( CONST.) TRAIL SOIL SURVEY 84 REPORT OF AUGER BORING RESULTS 85 REPORT OF SPT BORING RESULTS 86 87 To 107 **CROSS SECTIONS** LAKE MONROE 108 To 109 STORMWATER POLLUTION PREVENTION PLAN NOTES 110 To 131 STORMWATER POLLUTION PREVENTION PLAN 132 To 138 STORMWATER POLLUTION PREVENTION PLAN DETAILS TO DELTONA - SIGNING & PAVEMENT MARKING PLANS (S&PM) -S&PM - GENERAL NOTES S-1 S&PM - SUMMARY OF PAY ITEMS S-2 To S-3 S&PM - RAISED CROSSWALK DETAIL S-4S&PM - MID-BLOCK CROSSING W/ ISLAND DETAIL S-5 S&PM - MID-BLOCK CROSSING W/O ISLAND DETAIL S-6 S-7 To S-28 S&PM - PLAN SHEETS - TRAFFIC CONTROL PLANS (TCP) -CELERY AVE SANFORD TCP-1 TCP GENERAL NOTES LIST OF REVISED DRAWINGS REV. COMP. SET **LOCATION MAP** END CONSTRUCTION BEGIN EXCEPTION TO LAKE MARY STA. 61+88.61 (\(\mathbb{E}\)SURVEY) STA. 541+78.37 (&CONST.) LENGTH OF PROJECT

MILES LINEAR FEET 12,342.99 2.3377 PROJECT LENGTH NET LENGTH OF PROJECT 12,342.99 2.3377 **EXCEPTIONS** 678.73 0.1285 GROSS LENGTH OF PROJECT 11,664.26 2.2092

	REVISIONS												
No.	DATE	DESCRIPTION											

ROADWAY PLANS ENGINEER OF RECORD:

1-800-432-4770

MATTHEW C. CUSHMAN, P.E. FL P.E. No. 73150 48 HOURS BEFORE YOU DIG CALL SUNSHINE ONE

Plan Set Date May 9th, 2024

SHOP DRAWINGS (FOR THIS COMPONENT

500 W. FULTON STREET , SANFORD, FLORIDA 32771 P. O. BOX 2808, SANFORD, FLORIDA 32772-2808

Architects

Surveyors

Planners

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Landscape Arch.

Environmental Scientists Construction Management Traffic / Transportation

SEMINOLE COUNTY 1101 EAST FIRST STREET

SANFORD, FL 32771-1244 PHONE: 407.665.0000

SET) TO BE SUBMITTED TO:

PHONE 407 322-6841

PLANS PREPARED FOR:

SEMINOLE COUNTY

500 W. FULTON STREET

SANFORD, FLORIDA 32771 PHONE 407 322-6841

PLANS PREPARED BY:

CPH. INC.

SHEET NO.

1

PIFRCF

(C.O.A. No. 3215)

(Lic. No. AA2600926)

(Lic. No. LC0000298

LAUDERDALE

# **GOVERNING DESIGN STANDARDS:**

FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2024-25 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRS).

STANDARD PLANS FOR ROAD CONSTRUCTION AND ASSOCIATED IRS ARE AVAILABLE AT THE FOLLOWING WEBSITE:

### https://www.fdot.gov/design/standardplans

APPLICABLE IRS: NONE

# GOVERNING STANDARD SPECIFICATIONS:

FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2024-25 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWING WEBSITE:

#### https://www.fdot.gov/programmanagement/implemented/specbooks

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN REDUCED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.

ALL CONSTRUCTION ACTIVITIES SHALL COMPLY WITH LATEST AMERICANS WITH DISABILITIES ACT (A.D.A.) STANDARDS FOR ACCESSIBLE DESIGN.

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

SHEET NO.	DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	SUMMARY OF PAY ITEMS
4 To 12	DRAINAGE MAPS
13	SUMMARY OF DRAINAGE STRUCTURES
14	TYPICAL SECTIONS
15 To 18	PROJECT LAYOUT
19 To 20	LINE & CURVE TABLE
21 To 22	GENERAL NOTES
23 To 65	PLAN & PROFILE
66	DRIVEWAY DETAILS
67	MID-BLOCK CROSSING DETAILS
68 To 71	RAISED CROSSWALK DETAILS
72	GENERAL DETAILS
73	USGS QUADRANGLE AND NRCS SOIL SURVEY MAPS
74 To 83	BORING LOCATION PLAN
84	TRAIL SOIL SURVEY
85	REPORT OF AUGER BORING RESULTS
86	REPORT OF SPT BORING RESULTS
87 To 107	CROSS SECTIONS
	STORMWATER POLLUTION PREVENTION PLAN NOTES
110 To 131	STORMWATER POLLUTION PREVENTION PLAN
	- SIGNING & PAVEMENT MARKING PLANS (S&PM) -
S-1	S&PM - GENERAL NOTES
S-2 To S-3	S&PM - SUMMARY OF PAY ITEMS
S-4	S&PM - RAISED CROSSWALK DETAIL
S-5	S&PM - MID-BLOCK CROSSING W/ ISLAND DETAIL
S-6	S&PM - MID-BLOCK CROSSING W/O ISLAND DETAIL
S-7 To S-28	S&PM - PLAN SHEETS
	- TRAFFIC CONTROL PLANS (TCP) -
TCP-1	TCP GENERAL NOTES

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ndscape Architects	Traffic/Transportation	• Texas

ı	Offices In:	Designed by:	CJT	Date: 05/09/2024
1	Florida	Drawn by:	AM	Scale: AS NOTE
ı	Puerto Rico     Connecticut	Checked by:	KRL	
ı	Maryland	Approved by:	MCC	
١	• Texas	Job No.	S0989.1	©2024

Lake Monroe Trail Loop
Seminole County
Phase I

Plans Prepared By:	
CPH, Inc.	
500 West Fulton St. Sanford, Fl. 32771	
Phone: 407.322.6841	
Licenses:	
Eng. C.O.A. No. 3215 Arch. Lic. No. AA2600926	MATT
Survey L.B. No. 7143 Landscp. Lic. No. LC0000298	

Signature Sheet

2

				SUMMARY OF PAY ITEMS  Lake Monroe Loop Trail - Phase I			
P.I. LINE				·		QUA	NTITY
NO.	FDOT	PAY ITE	M NO.	PAY ITEM DESCRIPTION	UNIT	PLAN	FINAL
1	101	1		MOBILIZATION (MATERIAL AND WORKMANSHIP BOND)	LS	1	
2	101	1		MOBILIZATION (EXCLUDING MATERIAL AND WORKMANSHIP BOND)	LS	1	
3	102	1		MAINTENANCE OF TRAFFIC	LS	1	
4	102	99		PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	150	
5	104	10	3	SEDIMENT BARRIER	LF	9,727	
6	104	11		FLOATING TURBIDITY BARRIER	LF	100	
7	104	18		INLET PROTECTION SYSTEM	EA	25	
8	110	1	1	CLEARING & GRUBBING	AC	3.7	
9	110	4	10	REMOVAL OF EXISTING CONCRETE	SY	5,316	
10	110	7	1	MAILBOX, F&I SINGLE	EA	7	
11	120	1		REGULAR EXCAVATION	CY	2,194	
12	120	6		EMBANKMENT	CY	815	
13	160	4		TYPE B STABILIZATION	SY	1,100	
14	425	1	421	INLETS, CURB, TYPE J-2, <10'	EA	1	
15	425	1	521	INLETS, DT BOT, TYPE C,<10'	EA	2	
16	425	1	523	INLETS, DT BOT, TYPE C, J-BOT, <10'	EA	2	
17	425	1	525	INLETS, DT BOT, TYPE C, PARTIAL	EA	1	
18	425	2	71	MANHOLES, J-7, <10'	EA	1	
19	425	2	91	MANHOLES, J-8, <10'	EA	2	
20	425	5	1	MANHOLE, ADJUST, UTILITIES	EA	6	
21	430	174	115	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 15"SD	LF	16	
22	430	174	118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"SD	LF	246	
23	430	174	124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"SD	LF	29	
24	430	174	130	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 30"SD	LF	26	
25	430	175	215	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 15"CD	LF	100	
26	430	175	230	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 30"SD	LF	51	
27	430	524	100	STRAIGHT CONCRETE ENDWALLS, 24", SINGLE, 0 DEGREES, ROUND	EA	1	
28	430	530	100	STRAIGHT CONCRETE ENDWALLS, 30", SINGLE, 0 DEGREES, ROUND	EA	1	
29	430	530	202	STRAIGHT CONCRETE ENDWALLS, 30" EQUIV., DOUBLE, 0 DEGREES, ELLIPTICAL	EA	1	
30	515	1	2	PIPE HANDRAIL - GUIDERAIL, ALUMINUM, 42"	LF	189	
31	520	1	10	CONCRETE CURB & GUTTER, TYPE F	LF	2,696	
32	520	2	2	CONCRETE CURB. TYPE B	LF	1,078	
33	520	3		VALLEY GUTTER- CONCRETE	LF	60	
34	522	1		CONCRETE, SIDEWALK AND TRAIL, 4" THICK	SY	11,887	
35	522	1	1	CONCRETE SIDEWALK & DRIVEWAYS, 4" THICK, FULL DEPTH RED DYE, STAMPED BRICK PATTERN	SY	271	
36	522			CONCRETE SIDEWALK & DRIVEWAYS, 6" THICK	SY	3,792	
37	522	5		CONCRETE, 8"-12" THICK, REINFORCED (RAISED CROSSWALKS)	SY	· ·	
	522			DETECTABLE WARNINGS	SF	251 724	
38	530	2		BEDDING STONE (VARIABLE THICKNESS, NO. 57 STONE)	TN	22.6	
39 40	570	74	2	PERFORMANCE TURF, SOD	SY	6,090	
41	635	2	30	PULL & SPLICE BOX, INSTALL	EA	10	
				SINGLE POST SIGN, F&I, GM, <12 SF			
42	700	1	11		AS	39	
43	700	1	50	SINGLE POST SIGN, RELOCATE SINGLE POST SIGN, REMOVE	AS	27	
44	700	1	60	·	AS	2	
45	706	1	3	RAISED PAVEMENT MARKERS	EA	64	
46	710	90	400	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS	1	
47	711	11	123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	365	
48	711	11	125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	156	
49	711	11	170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	2	
50	711	11	224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	10	
51	711	14	123	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	1,937	
52	711	14	125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	36	
53	711	15	101	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES WHITE, SOLID, 6"	GM	0.143	
54	711	15	201	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, YELLOW, SOLID, 6"	GM	0.145	
55	1080	21	106	UTILITY FIXTURE, VALVE/METER BOX, FURNISH & INSTALL, 6"	EA	14	
56	1080	21	500	UTILITY FIXTURE, VALVE/METER BOX, ADJUST	EA	33	

#### PAY ITEM NOTES

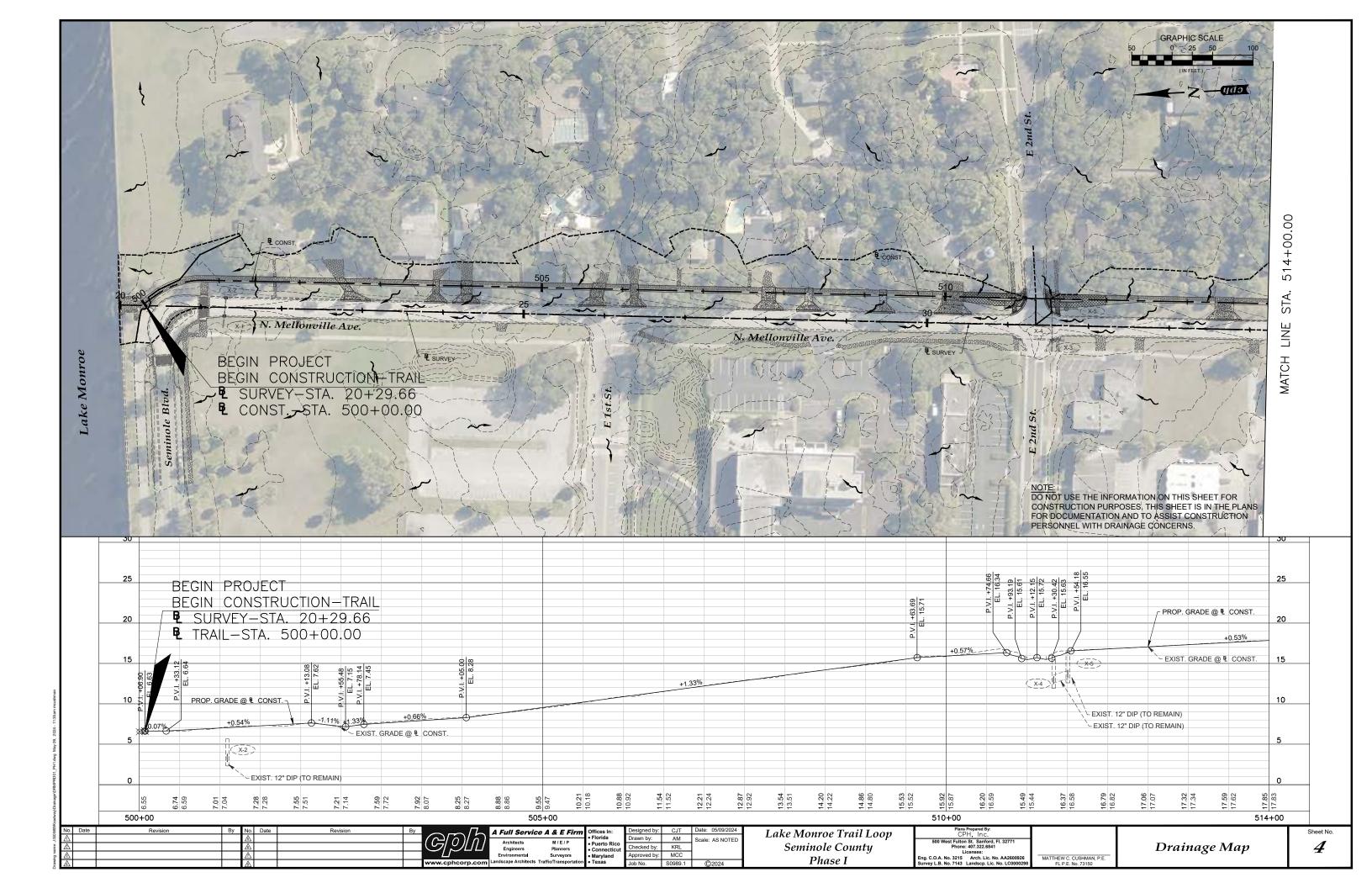
- 102-1 MAINTENANCE OF TRAFFIC:
  INCLUDES ALL ITEMS AND LABOR NECESSARY FOR THE IMPLEMENTATION OF THE TRAFFIC CONTROL PLANS DESIGNED BY THE CONTRACTOR AND APPROVED
  BY SEMINOLE COUNTY ENGINEERING. THE CONTRACTOR SHALL NOTIFY SURROUNDING RESIDENCES AND BUSINESS OF THE CONSTRUCTION BY FLYER
  APPROVED BY SEMINOLE COUNTY.
- 102-99 PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY:
  INCLUDES THE COST FOR 5 PCMS TO BE SET 7 DAYS PRIOR TO CONSTRUCTION AND FOR A TOTAL DURATION OF 30 DAYS. CONTRACTOR TO COORDINATE LOCATION WITH SEMINOLE COUNTY PROJECT MANAGER
- 110-1-1 CLEARING & GRUBBING:
  ALL TREE REMOVALS/TRIMMING (AS APPROVED BY THE COUNTY) AND ASSOCIATED COSTS SHALL BE INCIDENTAL TO THIS PAY ITEM. ALL REMOVAL OF EXISTING FENCE AND ASSOCIATED COSTS SHALL BE INCIDENTAL TO THIS PAY ITEM. INCLUDES THE COST OF IRRIGATION LINES DAMAGED DURING CONSTRUCTION WHICH ARE TO BE CAPPED IMMEDIATELY AND REPORTED TO THE SEMINOLE COUNTY ENGINEER INSPECTOR. IT IS THE RESPONSIBILITY THE CONTRACTOR TO REPAIR AND/OR REPLACE ALL DAMAGED IRRIGATION COMPONENTS TO THE PRE-CONSTRUCTION CONDITION AT CONTRACTOR EXPENSE PRIOR TO COMPLETION OF THE PROJECT.
- 110-7-1 MAILBOX, F&I SINGLE:
  CONTRACTOR SHALL PROVIDE STANDARD MAILBOX PER FDOT DQ&E AND AS APPROVED BY SEMINOLE COUNTY STAFF. PROPERTY OWNERS SHALL BE RESPONSIBLE FOR REMOVAL/REPLACEMENT OF ANY EXISTING CUSTOM MAILBOXES THAT OWNER DESIRES TO RETAIN/RE-USE.
- 425-2-71 MANHOLE J-7 <10' (MODIFIED FACE OF SIDEWALK DRAINAGE SLOT):

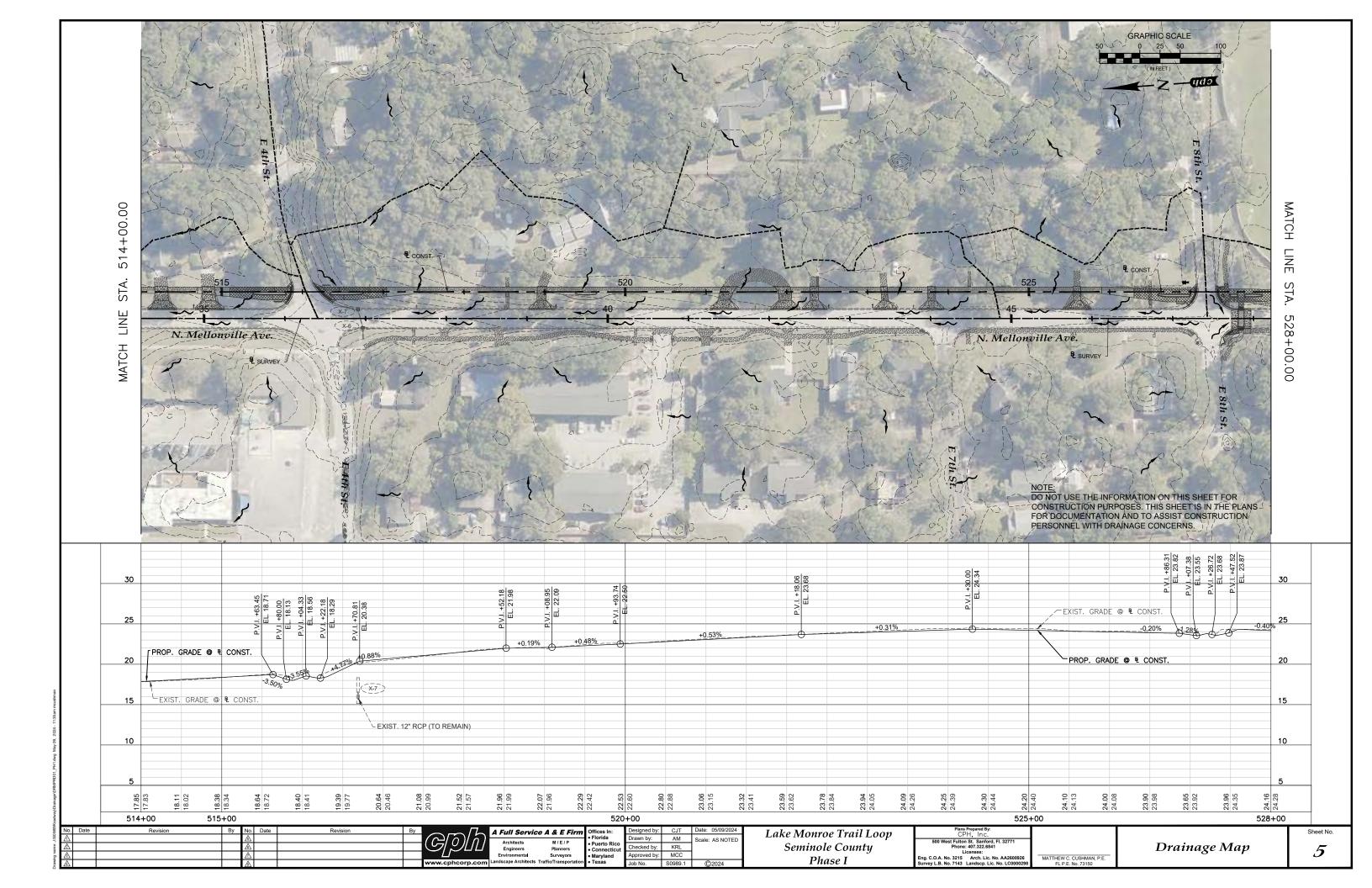
  CONST. MANHOLE WITH MODIFIED FACE OF SIDEWALK DRAINAGE SLOT PER FDOT STANDARD PLAN INDEX 425-060. SHALL INCLUDE ALL COSTS ASSOCIATED WITH CONSTRUCTION OF CAST-IN-PLACE STRUCTURE.
- 430-17X-XXX ALL PIPE PAY ITEMS SHALL INCLUDE ALL COSTS ASSOCIATED WITH BACKFILL AND RESTORATION OF PAVEMENT OR OTHER SURFACE TREATMENTS.
- 430-524-XXX & 430-530-XXX STRAIGHT CONCRETE END WALLS; SHALL INCLUDE ALL COSTS ASSOCIATED WITH PROVISION OF VERTICAL & BASE SLAB EXTENSIONS AS DETAILED WITHIN GENERAL DETAILS ON SHEET No 72.
- 520-1-X, 520-2-X & 520-3-X ALL CONCRETE CURB/GUTTER PAY ITEMS:
  INCLUDES ALL COSTS ASSOCIATED WITH RESTORATION OF ADJACENT PAVEMENT SECTIONS WHICH MAY BE DAMAGED OR REMOVED AS A RESULT OF PREPARATION FOR, OR INSTALLATION OF, ALL CURB/GUTTER.
- 520-1-10 CONCRETE CURB & GUTTER, TYPE F: DROP CURB FOR DRIVEWAYS & PEDESTRIAN RAMPS SHALL BE COMPENSATED UNDER STANDARD TYPE F CURB & GUTTER PAY ITEM.
- 522-1-1 CONCRETE SIDEWALK & DRIVEWAYS, 4" THICK, FULL DEPTH RED DYE, STAMPED BRICK PATTERN:
  ALL COSTS FOR FULL DEPTH RED DYE AND HERRINGBONE BRICK STAMP FOR SPECIAL EMPHASIS 4" THICK CONC. (RAISED TRAIL SEPARATORS, RAISED PEDESTRIAN CROSSINGS & CONC. SEPARATING TRAIL FROM PARALLEL PARKING, AS IDENTIFIED IN PLAN SHEETS) SHALL BE INCIDENTAL TO THE COST OF THE 4" THICK CONCRETE.
- 522-1&2 CONCRETE, SIDEWALK AND TRAIL 4" & 6" THICK:
  6" VARIABLE HEIGHT TRANSITION CURB WITHIN PEDESTRIAN RAMPS SHALL BE INCIDENTAL TO THE ASSOCIATED CONCRETE PAY ITEM (4" OR 6"). ONLY TYPE
  B CURB WITHIN THE SEPARATOR ISLANDS SHALL BE PAID SEPARATELY, AND ONLY AS IDENTIFIED WITHIN THE PLANS. THICKENED EDGE SIDEWALK AS NOTED
  IN THE PLANS SHALL BE INCIDENTAL TO THE SQUARE YARD COST OF THE ADJACENT CONCRETE SIDEWALK/TRAIL.
- 635-2-30 PULL & SPLICE BOX, INSTALL:
  CONTRACTOR TO INSTALL PULL/SPLICE BOX AS FURNISHED BY UTILITY OWNER. FOR USE WITHIN LIMITS OF TRAIL, PULL/SPLICE BOX SHALL BE VEHICULAR RATED.
- 700-1-50 SINGLE POST SIGN, RELOCATE:
  INCLUDES PROVISION OF POST IF NECESSARY TO MEET THE STANDARD MOUNTING HEIGHT REQUIREMENTS.
- 710-90 PAINTED PAVEMENT MARKINGS, FINAL SURFACE: SHALL INCLUDE 2 APPLICATIONS OF 710-11 PAINT AS QUANTIFIED WITHIN THE S&PM TABULATION OF QUANTITIES SHEETS.
- 711-1X-XXX THERMOPLASTIC (ALL):
  ALL THERMOPLASTIC INSTALLED ON CONCRETE PAVEMENT SHALL INCLUDE CONTRAST BORDERS. ASSOCIATED COST SHALL BE INCIDENTAL TO THE THERMOPLASTIC PAY ITEM.
- 711-14-XXX THERMOPLASTIC, PREFORMED, (FOR ALL TRAIL USES):
  ALL THERMOPLASTIC UTILIZED WITHIN THE LIMITS OF THE TRAIL SHALL BE PREFORMED OR "HIGH SKID".
- 1080-21-106 UTILITY FIXTURE, VALVE/METER BOX, F&I, 6":
  CONTRACTOR SHALL REPLACE EXISTING VALVE/METER BOX WITH CONCRETE BOX ADJUSTED TO FINISHED GRADE.

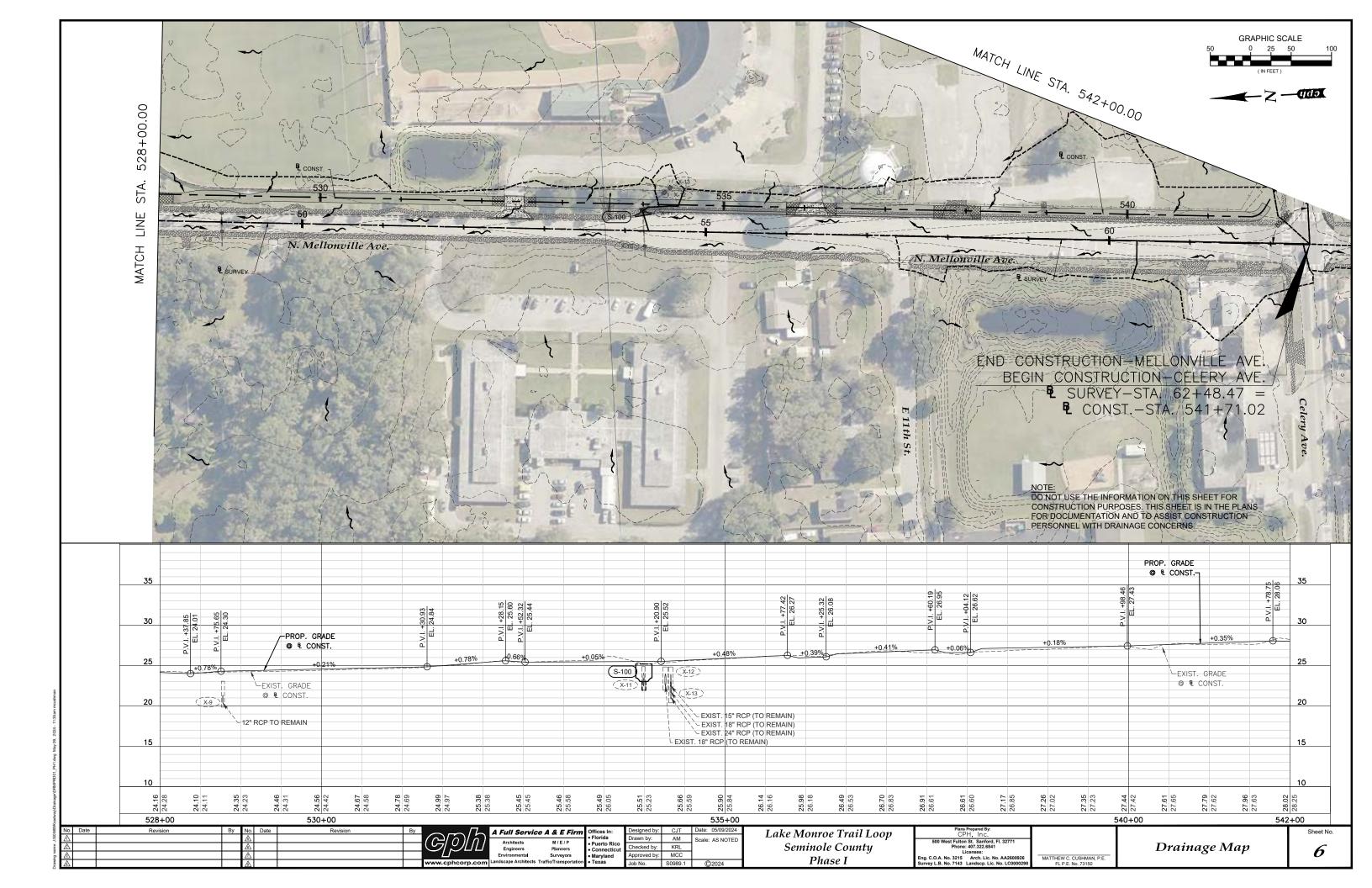
Lake Monroe Trail Loop Seminole County Phase I MATTHEW C. CUSHMAN, P.E.

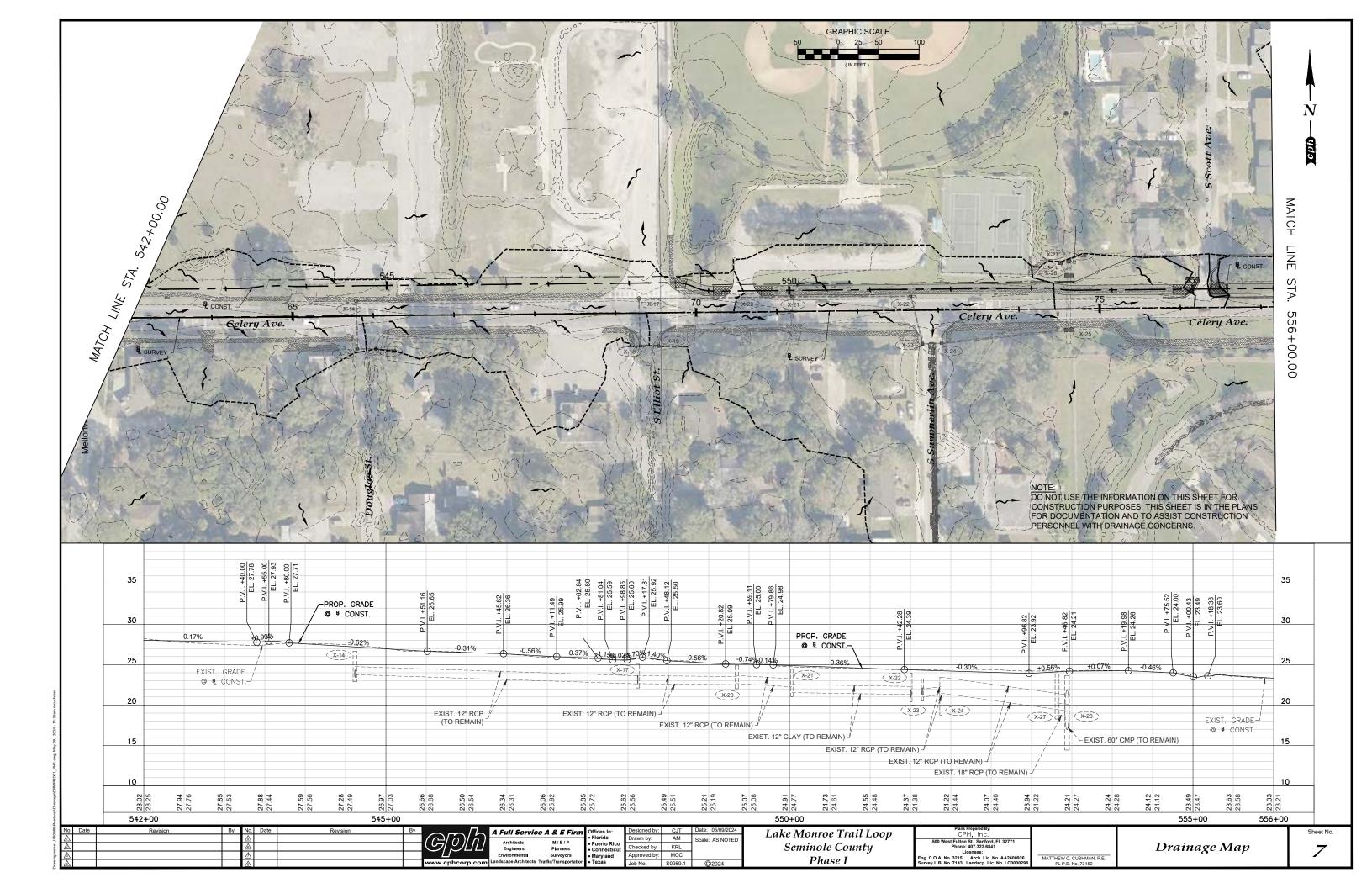
Summary of Pay Items

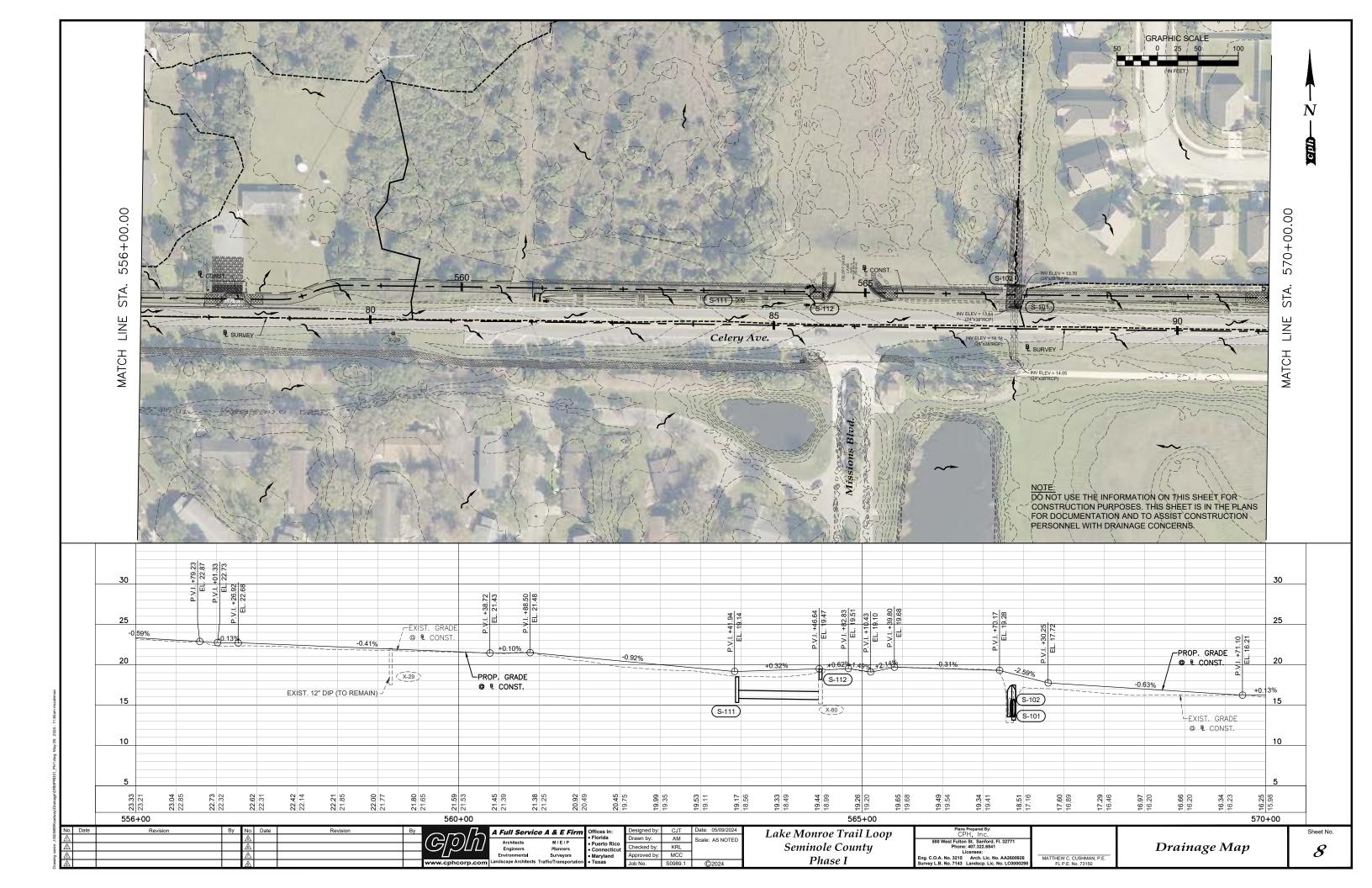
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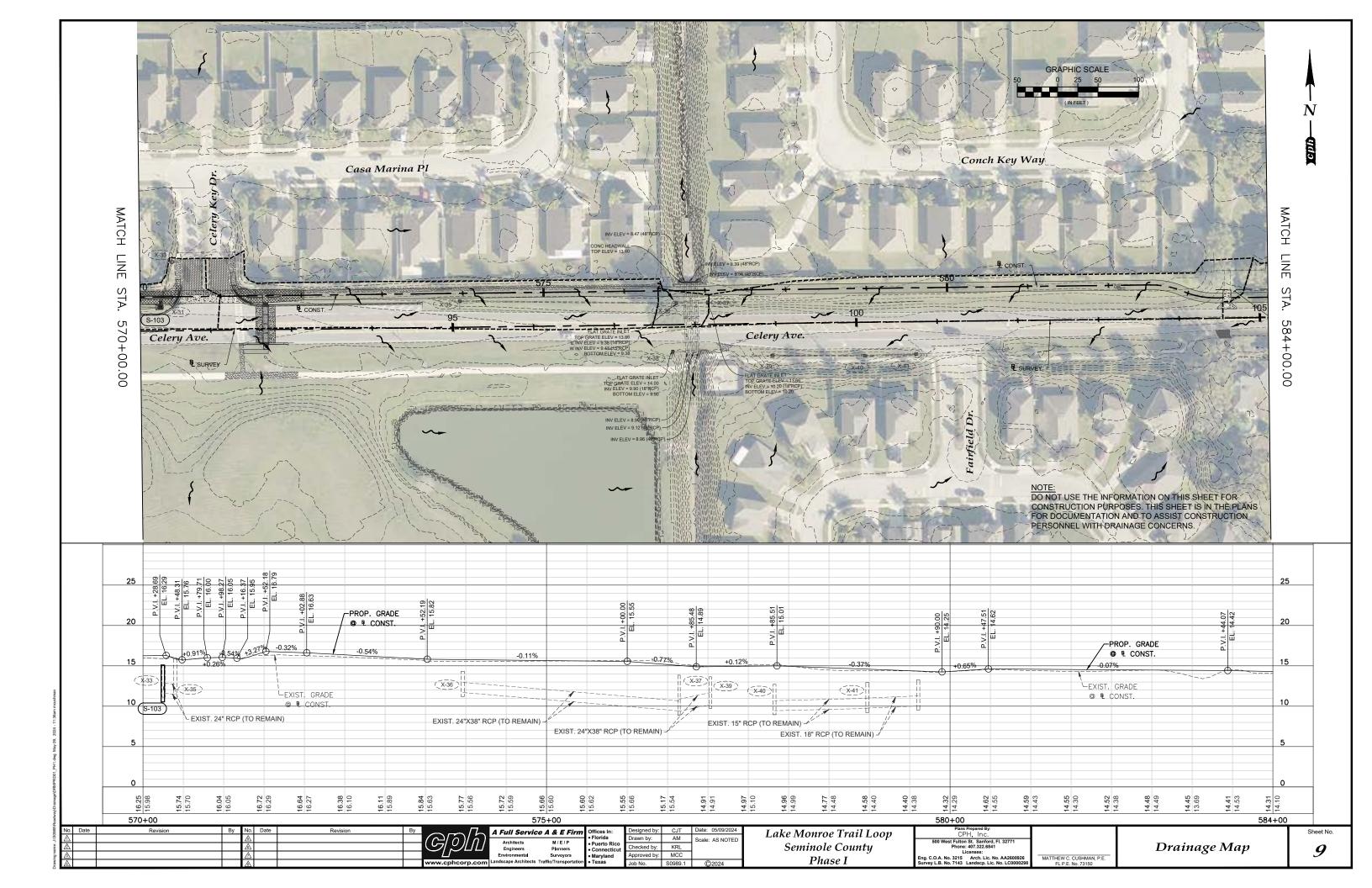


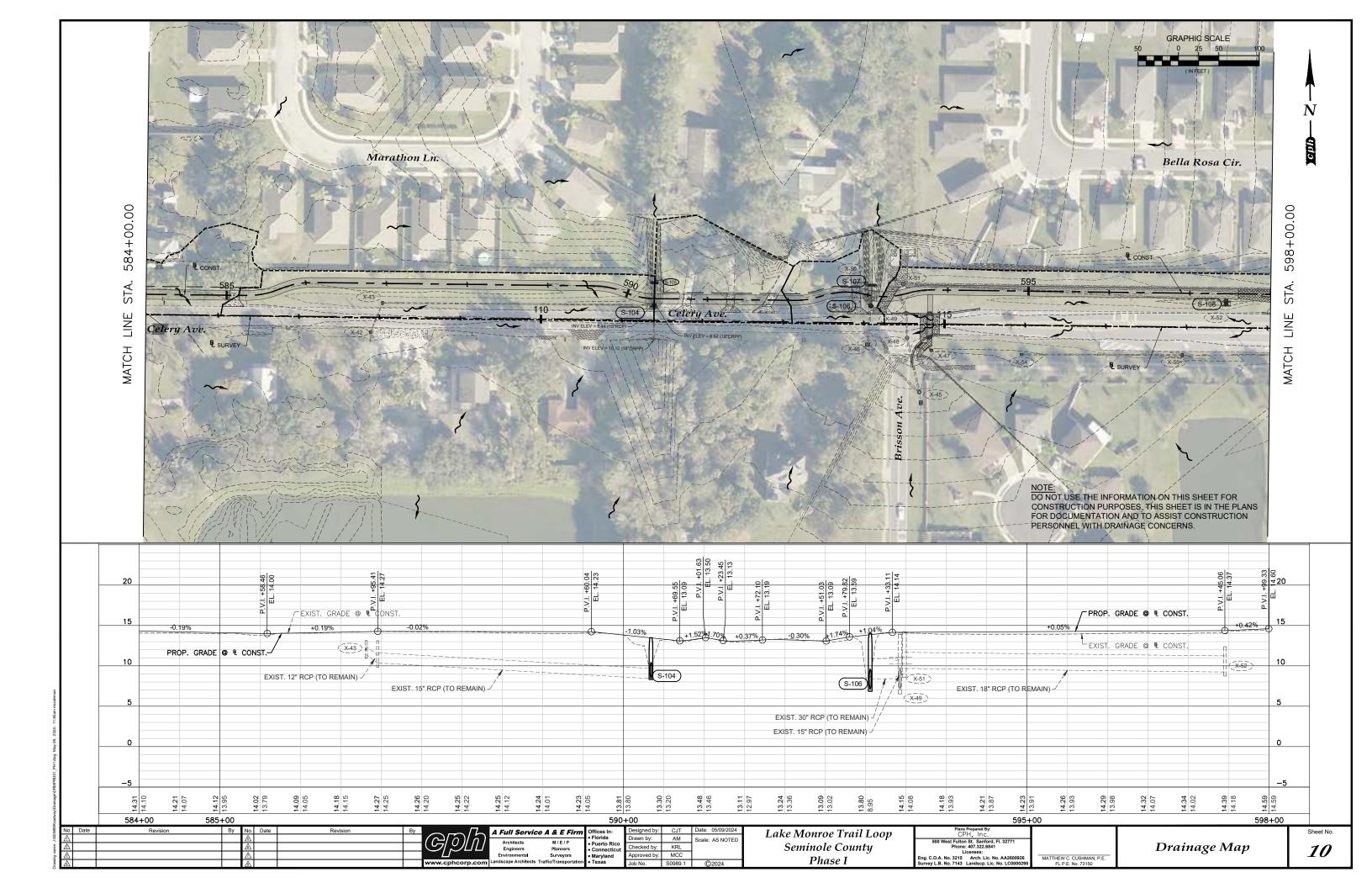


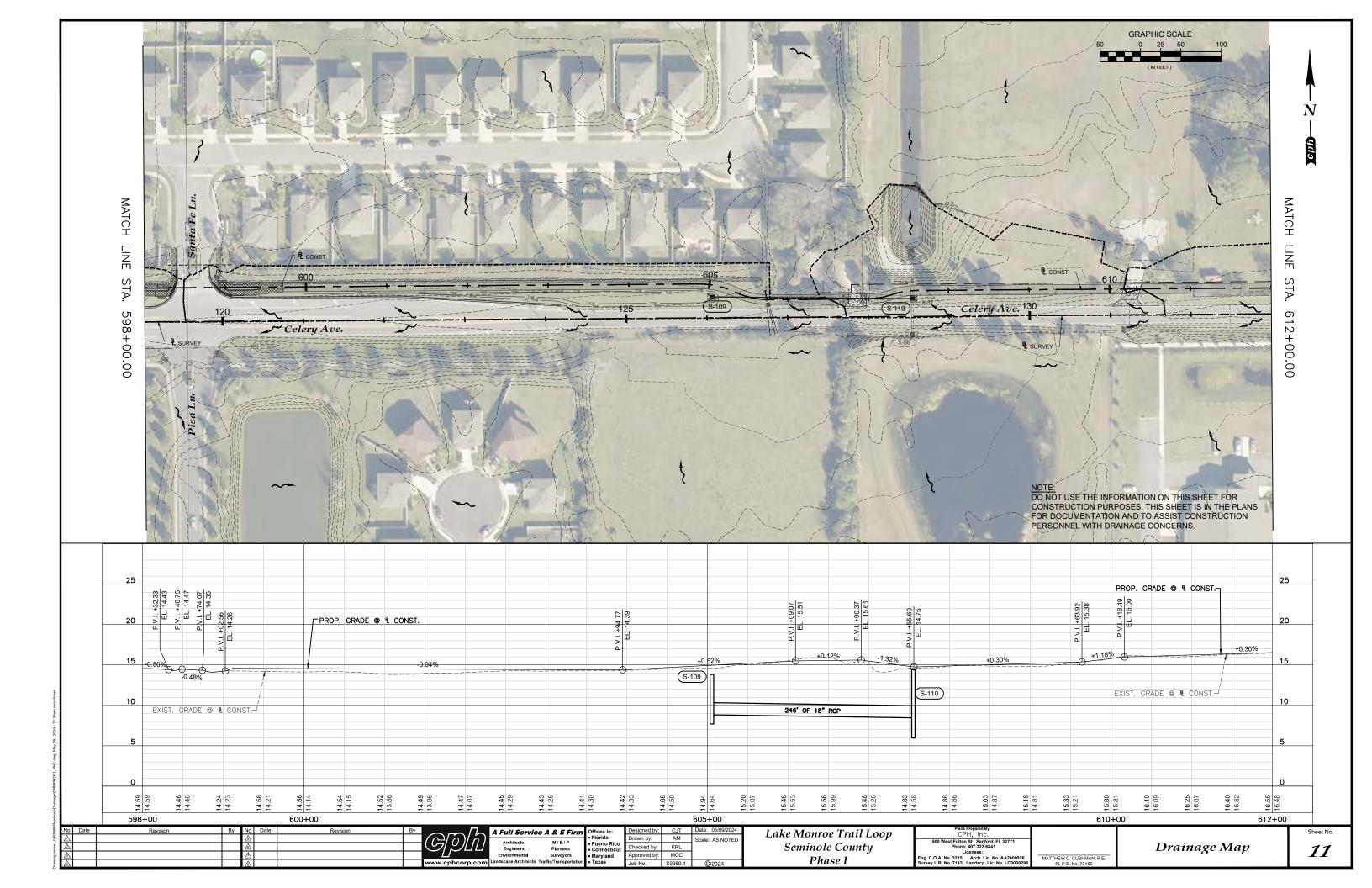


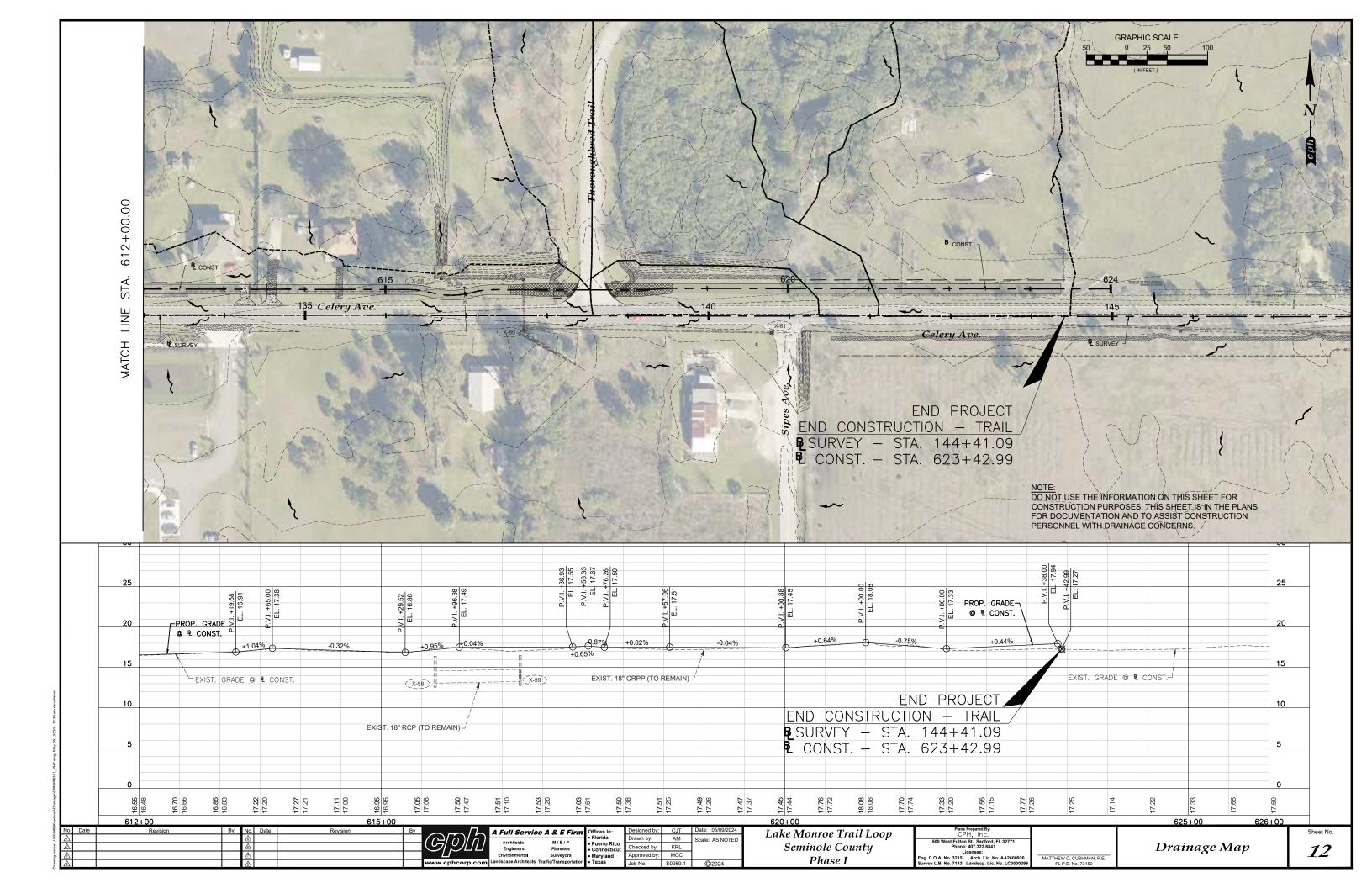












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STR	шст	STATION		DESCRIPTION		EOP, GRATE,	ELS	SIZE	NOE	STS							CURB		DITCH BOTTO	М			ENDWALLS			
	lo.	AT BL CONST.	OFFSET		OR TOP	BARREL	ı i	DIRECTI	\ ¥E		1	JND			TICAL	TYPE J-2 <10	TYPE C		T	J-7 <10'	J-8 <10'	24"	30" 24"x38"		REMARKS	
					ELEV. *	a a	<u> </u>	=	Ž	15" LF	18" LF	24" LF	30" LF	24"X18" LF	24"X38" LF	EA	STD.	J-BOT<10 EA	PARTIAL EA	EA	EA	EA	EA	EA	_	
0	S-100	533+99.64	8.94' RT	CURB INLET TYPE J-2 (C.I.P.)	25.42	1	18" 12"	SE W	22.59' 22.45'							1								LA	FDOT SPI 425-001, 425-010, 425-020 ALT B 5'x5' J BOTTOM (C.I.P.)	
:																										
,	S-101	566+87.70	13.70' RT	DITCH BOTTOM INLET TYPE C	17.49 GRATE	1	24"X38" 24"X38"	N S	13.70' 13.70'						24			1							FDOT SPI 425-001, 425-010, 425-052, 4'X4' ALT-B J-BOT, C APRON, TRAVERSABLE, 2-SLOT W/ STEEL GRATE	
<b>-</b>	S-102	566+85.05	11.17' LT	MODIFIED STRAIGHT CONC. ENDWALL	18.25' TOP **	2	24"X38" 24"X38"	S S	13.68' 13.62'						27									1	FDOT SPI 430-030; DBL OPENING, MODIFIED (SEE GENER DETAILS). PIPE EXT. W/ COLLAR	
:					15.11'		15"	N	11.64	8															FDOT SPI 425-001, 425-010, 425-052, CONC. APRON, TRA	
=	S-103	570+24.63	12.66' RT	DITCH BOTTOM INLET TYPE C	GRATE	1	6" (EXIST.)	S	11.98																SINGLE SLOT W/ STL GRATE (CIP). PIPE EXT. W/ COLLAR	
<b>D</b>	S-104	590+34.01	8.84' RT	MANHOLE TYPE 8	13.49' TOP	1	24" 18" 15"	N S W	8.44' 8.52' 8.44'			29									1				FDOT SPI 425-001, 425-010, 4'X4' ALT B J-BOTTOM	
:	S-105	590+33.45	19.82' LT	MODIFIED STRAIGHT CONC. ENDWALL	11.67' TOP	1	24"	S	8.41'													1			FDOT SPI 430-030	
	S-106	593+05.63	12.60' RT	MANHOLE TYPE 8	14.03' TOP	1	30" 30"	N S	7.11' 7.11'				26								1				FDOT SPI 425-001, 425-010	
	S-107	593+02.13	12.62' LT	MODIFIED STRAIGHT CONC. ENDWALL	13.14'	1	30"	s	7.09'							-							1		FDOT SPI 430-030 MODIFIED (SEE GENERAL DETAILS)	
					TOP **																				` `	
	S-108	597+44.90	12.23' RT	DITCH BOTTOM INLET TYPE C	13.20' GRATE	1	18" 24"	E W	9.88' 9.68'									1							FDOT SPI 425-001, 425-010, 425-052, 3.5'X6' TYPE B ALT J-BOT, CONC. APRON, TRAV., 2-SLOT W/ STEEL GRATE	
	S-109	605+05.41	14.66' RT	DITCH BOTTOM INLET TYPE C	13.63' GRATE	1	18"	E	8.83		246						1								FDOT SPI 425-001, 425-052, CONC. APRON, TRAVERSAL SINGLE SLOT W/ STEEL GRATE	
	S-110	607+55.11	9.87' RT	PARTIAL DITCH BOTTOM INLET TYPE C	14.45' GRATE	1	48" 24" 18"	N S W	UNK UNK 8.46										1						FDOT SPI 425-010, 425-052 - SAWCUT EXIST. TYPE E DE CONST. ALT B TOP SLAB W/ TYPE C DBI TOP, CONC. AI TRAVERSABLE, SINGLE SLOT W/ STEEL GRATE (CIP)	
	S-111	563+44.99	11.17' RT	DITCH BOTTOM INLET TYPE C	18.48' GRATE	1	12"x18"	E	15.81					100			1								FDOT SPI 425-001, 425-052, CONC. APRON	
	S-112	564+48.14	8.42' RT	MANHOLE	19.41' TOP	1	15" 12"x18"	N w	15.66 15.66	8										1					FDOT SPI 425-001, 425-010 (CIP) PIPE EXT. W/ COLLAR	
																+										
						1	1	1	L		-			100		1				1	1	1	1	1		

<sup>\*</sup> REFERENCE ELEVATION PROVIDED (UNLESS OTHERWISE SPECIFICALLY NOTED) IS THE ELEVATION OF THE STRUCTURE AT THE STANDARD STATION/OFFSET REFERENCE LOCATION AS IDENTIFIED WITHIN THE FDOT STANDARD PLANS.

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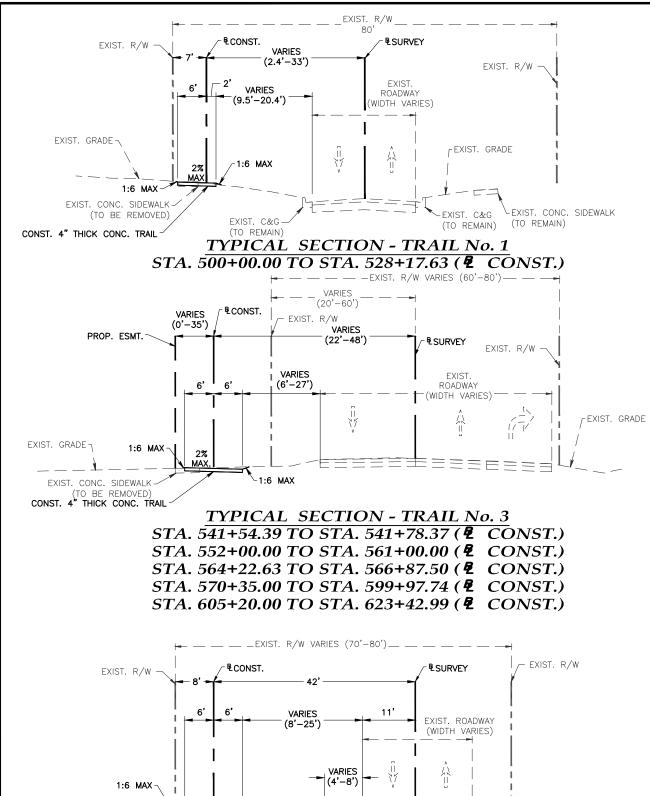
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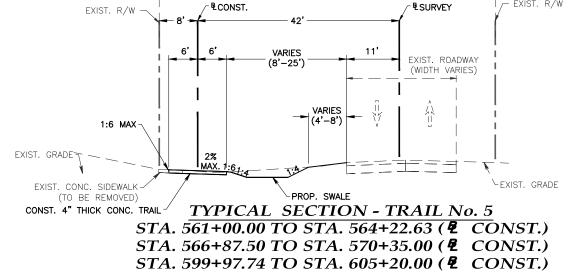
rm	Offices In:	Designed by:	CJT	Date: 05/
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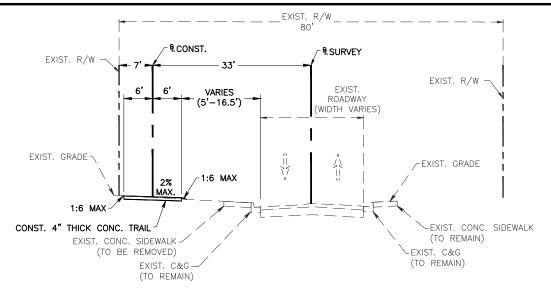
Lake Monroe Trail Loop	
Seminole County	
Phase I	
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Plans Prepared By: CPH, Inc.							
500 West Fulton St. Sanford, Fl. 32771 Phone: 407.322.6841							
Licenses:							
Eng. C.O.A. No. 3215 Arch. Lic. No. AA2600926 Survey L.B. No. 7143 Landscp. Lic. No. LC0000298	MA						

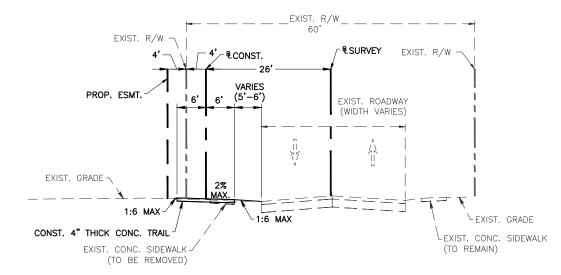
Summary of Drainage Structures







### TYPICAL SECTION - TRAIL No. 2 STA. 528+17.63 TO STA. 541+54.39 ( CONST.)



## TYPICAL SECTION - TRAIL No. 4 STA. 548+57.10 TO STA. 552+00.00 ( CONST.)

### NOTE:

THESE TYPICAL SECTIONS PROVIDE BASIC GEOMETRY FOR RANGES OF THE PROPOSED WORK. CROSS SLOPES SHOWN ARE RELATIVE TO THE DEPICTED LINE WORK ON THIS SHEET AND WILL VARY BY STATION. CONTRACTOR IS TO CONSTRUCT PROPOSED IMPROVEMENTS IN ACCORDANCE WITH/TO ALL PROVIDED PLANS & PROFILES. CROSS SECTIONS, DETAIL SHEETS, ETC. AS REFLECTED IN PROFILE VIEWS: "NORMAL CROWN" IS DEFINED AS SLOPING DOWN TOWARDS THE ROADWAY (TO RIGHT). "REVERSE CROWN IS DEFINED AS SLOPING DOWN TOWARDS THE ROW (TO LEFT)

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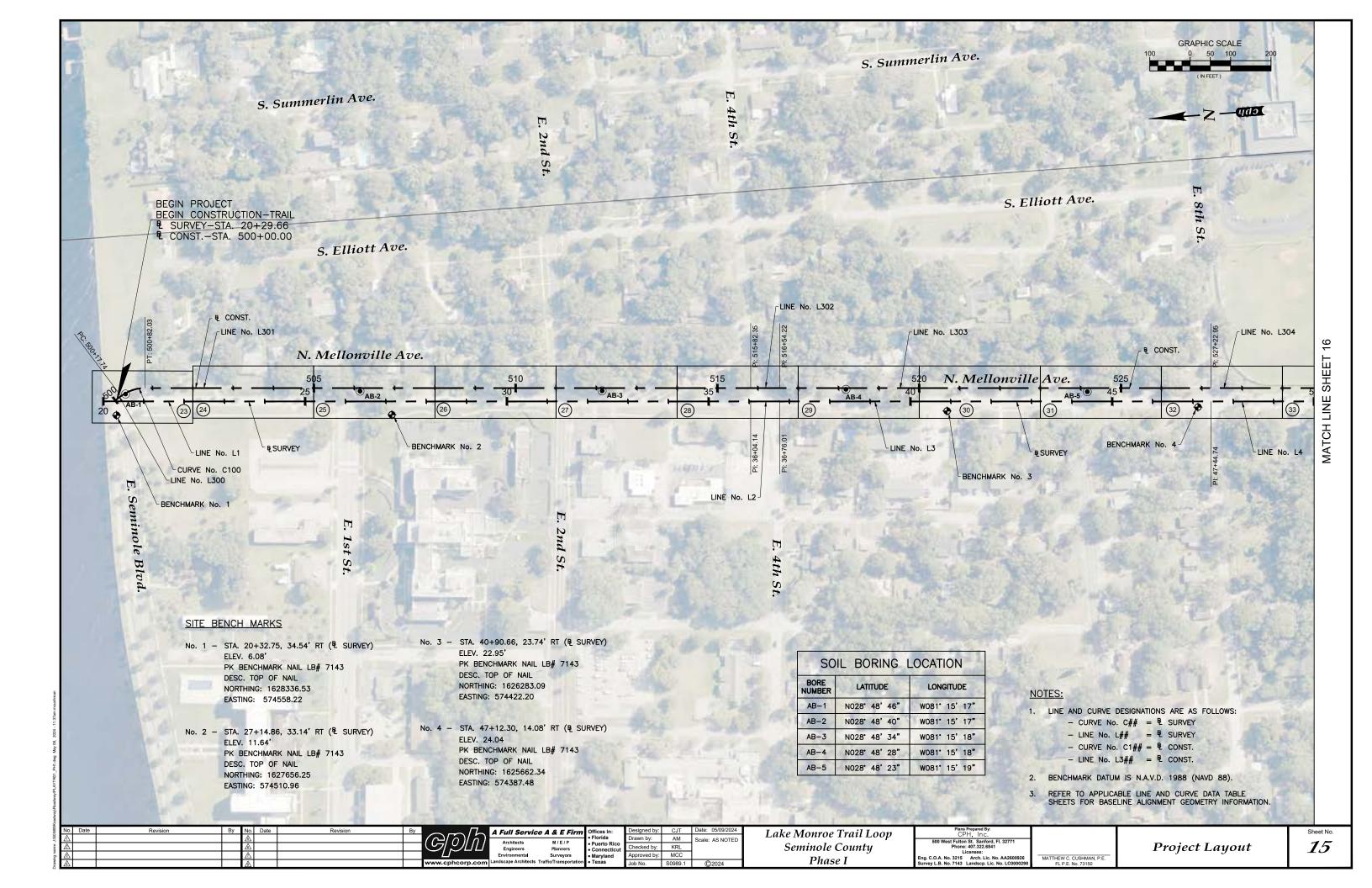
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	Maryland	Approved by:	MCC	
tation	• Texas	Job No.	S0989.1	©2024

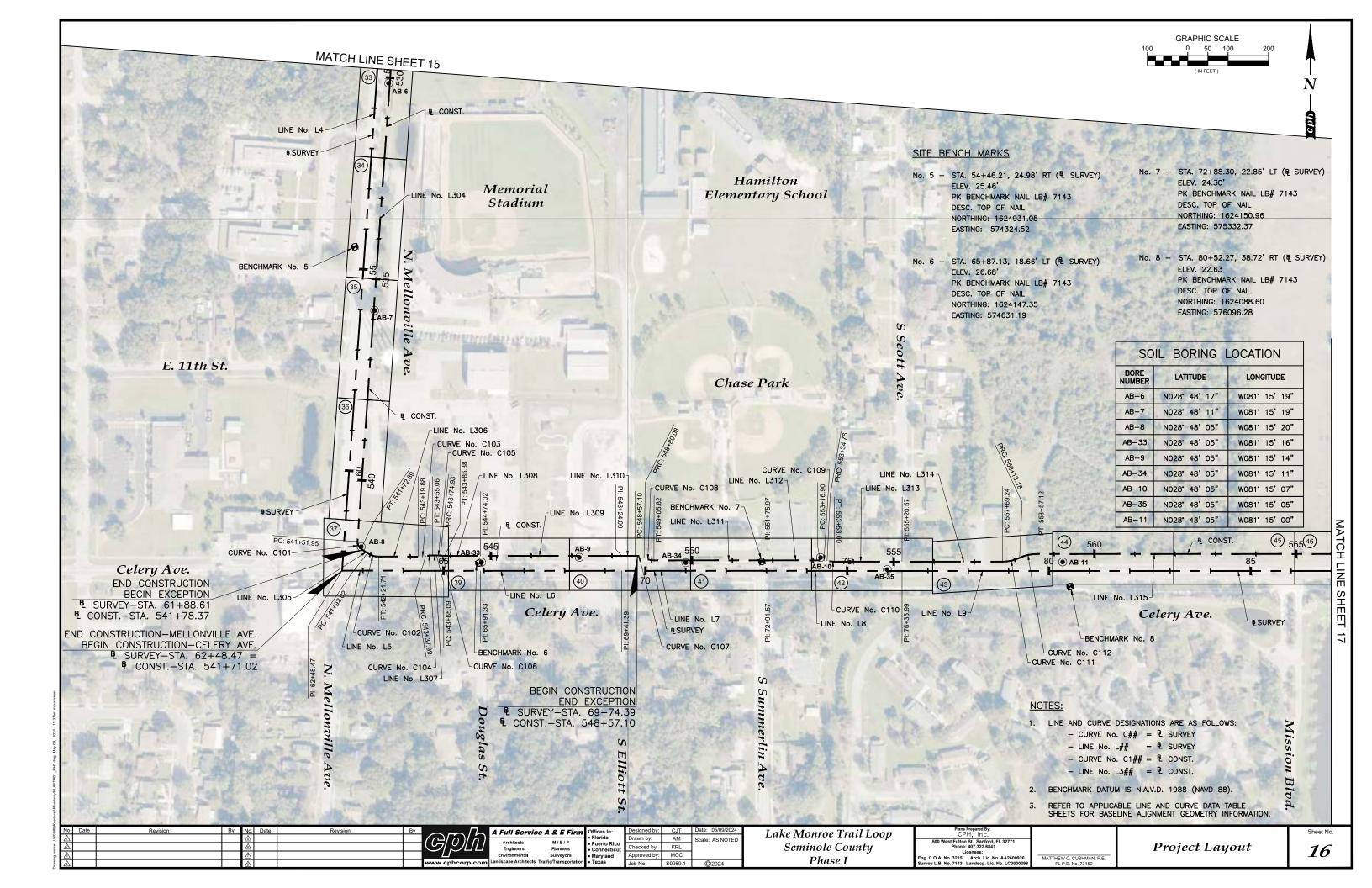
Lake Monroe Trail Loop Seminole County Phase I

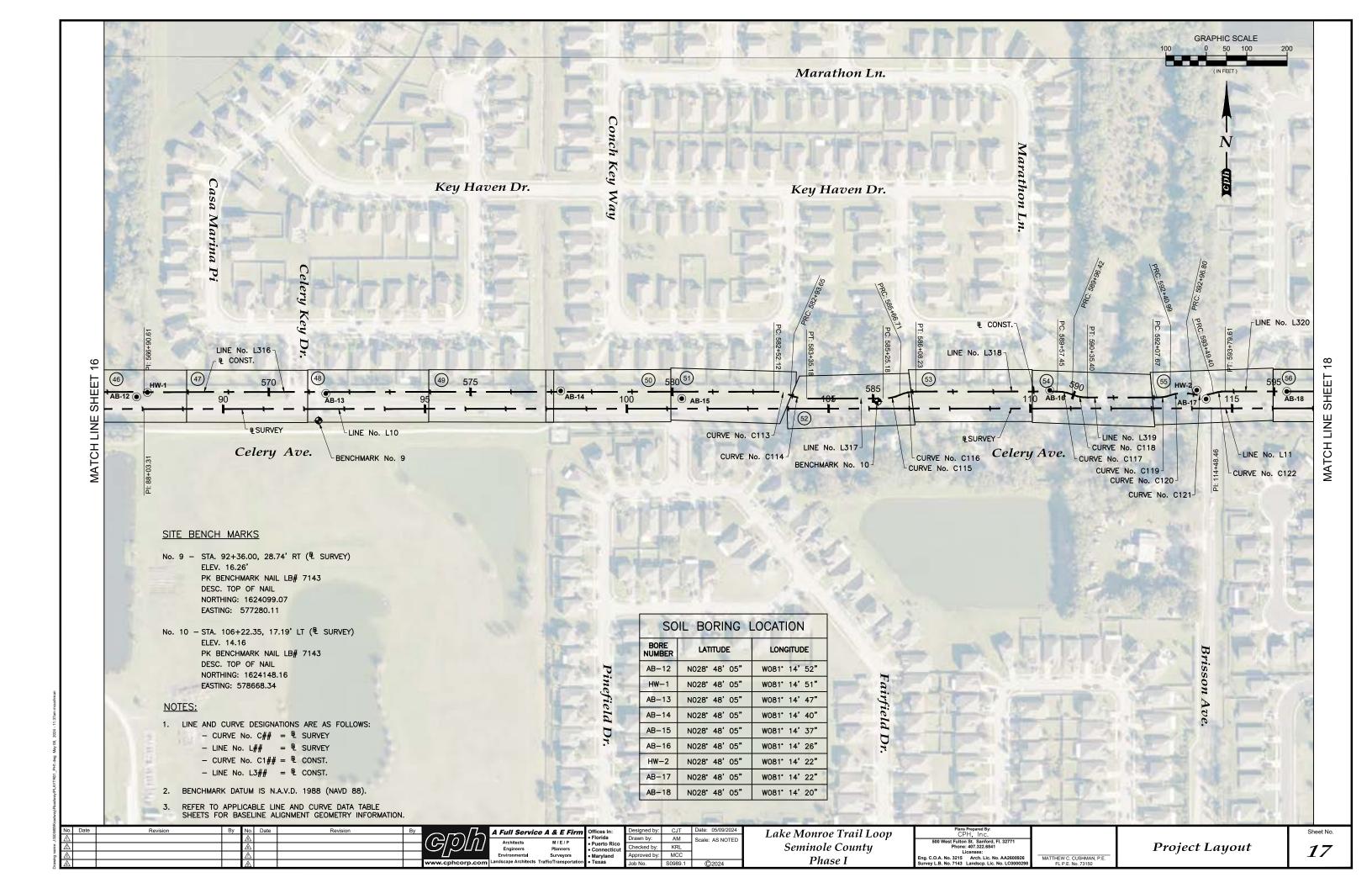
Plans Prepared By: CPH, Inc.	
500 West Fulton St. Sanford, Fl. 32771 Phone: 407.322.6841 Licenses:	
Eng. C.O.A. No. 3215 Arch. Lic. No. AA2600926 Survey L.B. No. 7143 Landscp. Lic. No. LC0000298	MATTHEW C. CUSHMAN, P.E. FL P.E. No. 73150

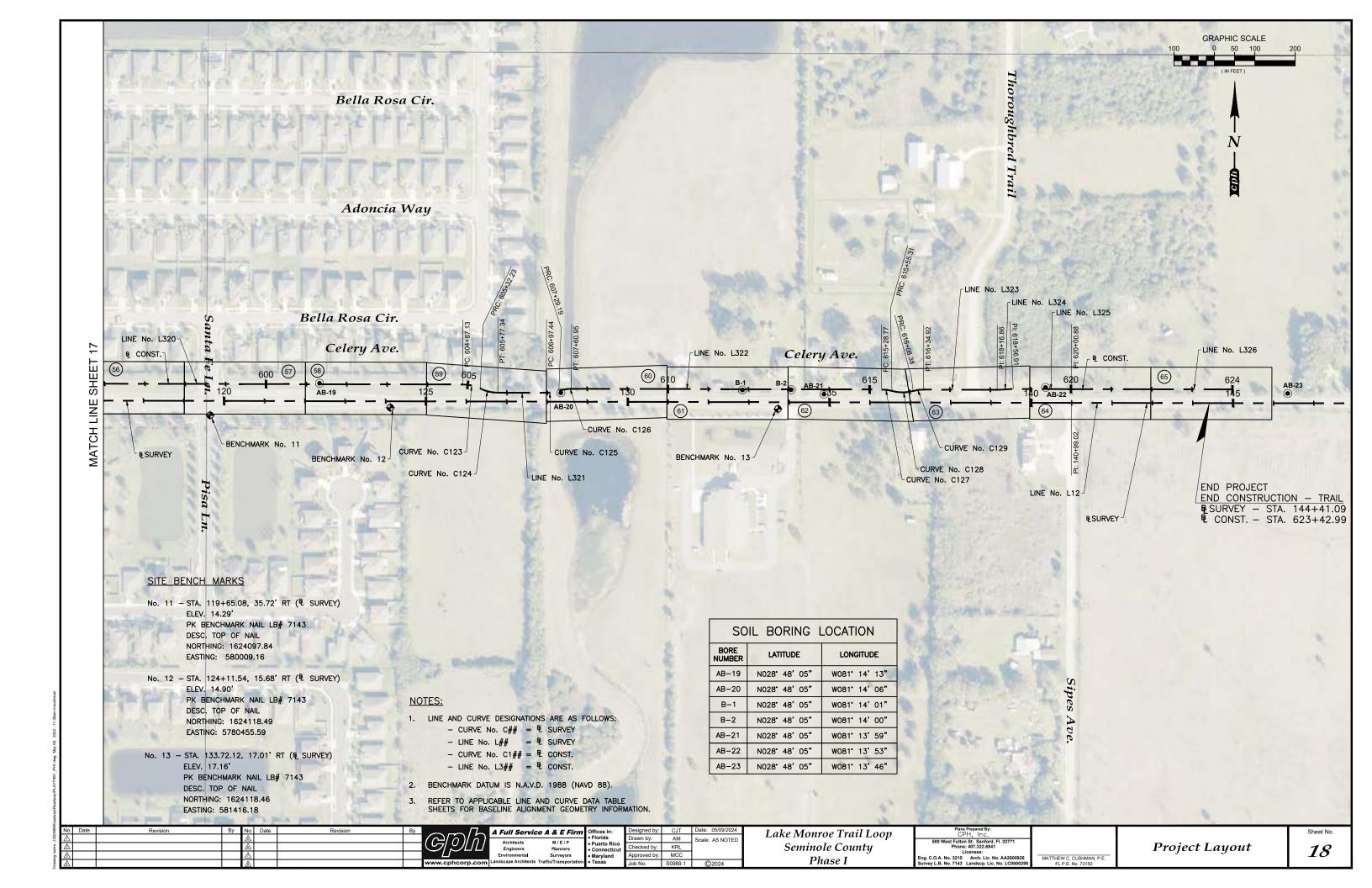
Typical Sections

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	LINE TABLE - & CONST.										
Line #	Length (Distance)	Direction (Bearings)	irection (Bearings) Start Point End Point								
L300	17.737'	S32° 44' 40.24"E	(574595.2844,1628336.9700)	(574604.8780,1628322.0518)	500+00.00	500+17.74					
L301	1500.328'	S4° 05' 26.04"W	(574620.5142,1628260.8291)	(574513.4909,1626764.3230)	500+82.03	515+82.35					
L302	71.866'	S4° 05' 06.99"W	(574513.4909,1626764.3230)	(574508.3712,1626692.6400)	515+82.35	516+54.22					
L303	1068.726'	S4° 05' 26.04"W	(574508.3712,1626692.6400)	(574432.1355,1625626.6365)	516+54.22	527+22.95					
L304	1429.003'	S4° 04' 08.59"W	(574432.1355,1625626.6365)	(574330.7353,1624201.2361)	527+22.95	541+51.95					
L305	19.135'	S55° 55' 07.00"E	(574339.4775,1624183.2521)	(574355.3256,1624172.5296)	541+72.89	541+92.02					
L306	98.170'	S89° 56' 27.21"E	(574383.2925,1624163.9418)	(574481.4628,1624163.8405)	542+21.71	543+19.88					
L307	10.031'	S89° 56' 27.22"E	(574516.4692,1624166.8044)	(574526.5000,1624166.7940)	543+55.06	543+65.09					
L308	88.638'	S89° 56' 27.21"E	(574546.7572,1624165.7731)	(574635.3949,1624165.6817)	543+85.38	544+74.02					
L309	350.075'	S89° 58' 19.18"E	(574635.3949,1624165.6817)	(574985.4703,1624165.5106)	544+74.02	548+24.09					
L310	33.006'	S89° 56' 01.98"E	(574985.4703,1624165.5106)	(575018.4760,1624165.4725)	548+24.09	548+57.10					
L311	270.154'	S89° 56' 01.98"E	(575065.4845,1624154.4182)	(575335.6384,1624154.1065)	549+05.82	551+75.97					
L312	140.933' \$89° 54' 46.61"E		(575335.6384,1624154.1065)	(575476.5711,1624153.8924)	551+75.97	553+16.90					
L313	167.572'	S89° 54' 46.61"E	(575512.4909,1624150.8378)	(575680.0626,1624150.5832)	553+53.00	555+20.57					
L314	248.668'	S89° 57' 45.25"E	(575680.0626,1624150.5832)	(575928.7310,1624150.4207)	555+20.57	557+69.24					
L315	833.490'	S89° 57' 45.89"E	(576013.8257,1624169.3651)	(576847.3157,1624168.8232)	558+57.12	566+90.61					
L316	1561.509'	N89° 52' 09.18"E	(576847.3157,1624168.8232)	(578408.8207,1624172.3875)	566+90.61	582+52.12					
L317	190.000'	N89° 52' 08.84"E	(578489.5501,1624155.5719)	(578679.5496,1624156.0059)	583+35.18	585+25.18					
L318	349.211'	N89° 52' 08.84"E	(578760.2013,1624173.1901)	(579109.4119,1624173.9878)	586+08.23	589+57.45					
L319	172.272'	N89° 52' 08.84"E	(579185.4394,1624159.1615)	(579357.7112,1624159.5550)	590+35.40	592+07.67					
L320	1107.524'	N89° 55' 20.06"E	(579527.1027,1624174.9098)	(580634.6257,1624176.4129)	593+79.61	604+87.13					
L321	120.098'	N89° 55' 20.07"E	(580721.8309,1624156.5312)	(580841.9287,1624156.6942)	605+77.34	606+97.44					
L322	767.827'	N89° 55' 20.06"E	(580904.3655,1624166.7789)	(581672.1915,1624167.8210)	607+60.95	615+28.77					
L323	181.946'	N89° 55' 20.06"E	(581777.0913,1624167.9634)	(581959.0377,1624168.2103)	616+34.92	618+16.86					
L324	40.050'	N87° 03' 35.41"E	(581959.0377,1624168.2103)	(581999.0349,1624170.2646)	618+16.86	618+56.91					
L325	143.973'	N89° 55' 20.06"E	(581999.0349,1624170.2646)	(582143.0073,1624170.4600)	618+56.91	620+00.88					
L326	399.116	N89° 52' 31.06"E	(582143.0073,1624170.4600)	(582542.1220,1624171.3287)	620+00.88	624+00.00					

	CURVE DATA — & CONST.											
CURVE No.	P.C. STATION	P.I. STATION	P.T. STATION	Δ	D	Т	L	R	P.C. (NORTHERN - EASTERN)	P.I. (NORTHERN - EASTERN)	P.T. (NORTHERN - EASTERN)	
C100	500+17.74	500+51.04	500+82.03	36°50'06"	57°17'45"	33.30'	64.29'	100.00'	1628322.0518 - 574604.8780	1628294.0439 - 574622.8895	1628260.8291 - 574620.5142	
C101	541+51.95	541+63.49	541+72.89	59°59'16"	286°28'44"	11.54'	20.94'	20.00'	1624201.2361 - 574330.7353	1624189.7211 - 574329.9162	1624183.2521 - 574339.4775	
C102	541+92.02	542+07.32	542+21.71	34°01'20"	114°35'30"	15.30'	29.69'	50.00'	1624172.5296 - 574355.3256	1624163.9576 - 574367.9953	1624163.9418 - 574383.2925	
C103	543+19.88	543+28.96	543+37.99	9°47'07"	54°03'10"	9.07'	18.10'	106.00'	1624163.8405 - 574481.4628	1624163.8319 - 574490.5364	1624165.3656 - 574499.4794	
C104	543+37.99	543+46.54	543+55.06	9°46'54"	57°17'56"	8.56'	17.07'	99.99'	1624165.3656 - 574499.4794	1624166.8119 - 574507.9127	1624166.8044 - 574516.4692	
C105	543+65.09	543+70.01	543+74.93	5°38'21"	57°17'45"	4.93'	9.84'	100.00'	1624166.7940 - 574526.5000	1624166.7882 - 574531.4252	1624166.2985 - 574536.3259	
C106	543+74.93	543+80.16	543+85.38	5°38'52"	54°03'09"	5.23'	10.45'	106.00'	1624166.2985 - 574536.3259	1624165.7785 - 574541.5286	1624165.7731 - 574546.7572	
C107	548+57.10	548+68.79	548+80.08	26°20'01"	114°35'30"	11.70'	22.98'	50.00'	1624165.4725 - 575018.4760	1624165.4590 - 575030.1728	1624160.2582 - 575040.6498	
C108	548+80.08	548+93.18	549+05.82	26°20'01"	102°18'50"	13.10'	25.74'	56.00'	1624160.2582 - 575040.6498	1624154.4333 - 575052.3841	1624154.4182 - 575065.4845	
C109	553+16.90	553+25.85	553+34.76	9°39'05"	54°03'09"	8.95'	17.86'	106.00'	1624153.8924 - 575476.5711	1624153.8788 - 575485.5201	1624152.3650 - 575494.3401	
C110	553+34.76	553+43.90	553+53.00	9°51'28"	54°03'09"	9.14'	18.24'	106.00'	1624152.3650 - 575494.3401	1624150.8187 - 575503.3497	1624150.8378 - 575512.4909	
C111	557+69.24	557+91.57	558+13.18	25°10'36"	57°17'45"	22.33'	43.94'	100.00'	1624150.4207 - 575928.7310	1624150.4061 - 575951.0623	1624159.8929 - 575971.2784	
C112	558+13.18	558+35.51	558+57.12	25°10'36"	57°17'45"	22.33'	43.94'	100.00'	1624159.8929 - 575971.2784	1624169.3797 - 575991.4944	1624169.3651 - 576013.8257	
C113	582+52.12	582+73.19	582+93.65	23°47'39"	57°17'45"	21.07'	41.53'	100.00'	1624172.3875 - 578408.8207	1624172.4356 - 578429.8887	1624163.9797 - 578449.1854	
C114	582+93.65	583+14.72	583+35.18	23°47'39"	57°17'45"	21.07'	41.53'	100.00'	1624163.9797 - 578449.1854	1624155.5237 - 578468.4821	1624155.5719 - 578489.5501	
C115	585+25.18	585+46.25	585+66.71	23°47'39"	57°17'45"	21.07'	41.53'	100.00'	1624156.0059 - 578679.5496	1624156.0540 - 578700.6176	1624164.5980 - 578719.8755	
C116	585+66.71	585+87.77	586+08.23	23°47'39"	57°17'45"	21.07'	41.53'	100.00'	1624164.5980 - 578719.8755	1624173.1420 - 578739.1333	1624173.1901 - 578760.2013	
C117	589+57.45	589+77.18	589+96.42	22°19'54"	57°17'45"	19.74'	38.98'	100.00'	1624173.9878 - 579109.4119	1624174.0329 - 579129.1504	1624166.5746 - 579147.4256	
C118	589+96.42	590+16.16	590+35.40	22°19'54"	57°17'45"	19.74'	38.98'	100.00'	1624166.5746 - 579147.4256	1624159.1164 - 579165.7009	1624159.1615 - 579185.4394	
C119	592+07.67	592+24.49	592+40.99	19°05'28"	57°17'45"	16.82'	33.32'	100.00'	1624159.5550 - 579357.7112	1624159.5934 - 579374.5271	1624165.1297 - 579390.4056	
C120	592+40.99	592+69.64	592+96.80	31°58'26"	57°17'45"	28.65'	55.80'	100.00'	1624165.1297 - 579390.4056	1624174.5620 - 579417.4582	1624168.2381 - 579445.4013	
C121	592+96.80	593+23.72	593+49.40	30°08'19"	57°17'45"	26.92'	52.60'	100.00'	1624168.2381 - 579445.4013	1624162.2951 - 579471.6618	1624170.3408 - 579497.3563	
C122	593+49.40	593+64.62	593+79.61	17°18'33"	57°17'45"	15.22'	30.21'	100.00'	1624170.3408 - 579497.3563	1624174.8891 - 579511.8818	1624174.9098 - 579527.1027	
C123	604+87.13	605+10.07	605+32.23	25°50'31"	57°17'45"	22.94'	45.10'	100.00'	1624176.4129 - 580634.6257	1624176.4440 - 580657.5673	1624166.4720 - 580678.2282	
C124	605+32.23	605+55.18	605+77.34	25°50'31"	57°17'45"	22.94'	45.10'	100.00'	1624166.4720 - 580678.2282	1624156.5000 - 580698.8893	1624156.5312 - 580721.8309	
C125	606+97.44	607+13.45	607+29.19	18°11'42"	57°17'45"	16.01'	31.76'	100.00'	1624156.6942 - 580841.9287	1624156.7158 - 580857.9417	1624161.7366 - 580873.1473	
C126	607+29.19	607+45.20	607+60.95	18°11'42"	57°17'45"	16.01'	31.76'	100.00'	1624161.7366 - 580873.1473	1624166.7572 - 580888.3527	1624166.7789 - 580904.3655	
C127	615+28.77	615+42.12	615+55.31	15°12'13"	57°17'45"	13.35'	26.54'	100.00'	1624167.8210 - 581672.1915	1624167.8391 - 581685.5375	1624164.3566 - 581698.4212	
C128	615+55.31	615+82.49	616+08.38	30°24'26"	57°17'45"	27.18'	53.07'	100.00'	1624164.3566 - 581698.4212	1624157.2652 - 581724.6558	1624164.4278 - 581750.8711	
C129	616+08.38	616+21.73	616+34.92	15°12'13"	57°17'45"	13.35'	26.54'	100.00'	1624164.4278 - 581750.8711	1624167.9452 - 581763.7453	1624167.9634 - 581777.0913	

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 Date:
 05/09/2024

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 Checked by:
 KRL
 Approved by:
 MCC

Lake Monroe Trail Loop Seminole County Phase I

MATTHEW C. CUSHMAN, P.E. FL P.E. No. 73150

Line And Curve Table (된 Const.)

LINE TABLE - E SURVEY						
Line #	Length	Direction	Start Point	End Point	Start Station	End Station
L1	1604.137	S4° 05' 26.04"W	(574595.0032,1628366.7270)	(574480.5750,1626766.6770)	20+00.00	36+04.14
L2	71.869	S4° 05' 06.99"W	(574480.5750,1626766.6770)	(574475.4550,1626694.9910)	36+04.14	36+76.01
L3	1068.731	S4° 05' 26.04"W	(574475.4550,1626694.9910)	(574399.2190,1625628.9830)	36+76.01	47+44.74
L4	1503.738	S4° 04' 08.59"W	(574399.2190,1625628.9830)	(574292.5157,1624129.0354)	47+44.74	62+48.47
L5	342.860	S89° 56' 27.21"E	(574292.5157,1624129.0354)	(574635.3757,1624128.6817)	62+48.47	65+91.33
L6	350.053	S89° 58' 19.18"E	(574635.3757,1624128.6817)	(574985.4289,1624128.5106)	65+91.33	69+41.39
L7	350.180	S89° 56' 01.97"E	(574985.4289,1624128.5106)	(575335.6084,1624128.1065)	69+41.39	72+91.57
L8	344.420	S89° 54' 46.61"E	(575335.6084,1624128.1065)	(575680.0277,1624127.5832)	72+91.57	76+35.99
L9	1167.323	S89° 57' 45.25"E	(575680.0277,1624127.5832)	(576847.3502,1624126.8206)	76+35.99	88+03.31
L10	2645.150	N89° 52' 08.84"E	(576847.3502,1624126.8206)	(579492.4934,1624132.8628)	88+03.31	114+48.46
L11	2650.560	N89° 55' 20.07"E	(579492.4934,1624132.8628)	(582143.0510,1624136.4600)	114+48.46	140+99.02
L12	2660.920	N89° 52' 31.07"E	(582143.0510,1624136.4600)	(584803.9647,1624142.2515)	140+99.02	167+59.94

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ved by:	MCC		
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Lake Monroe Trail Loop
Seminole County
Phase I

Plans	Prepared By:	
CF	PH, Inc.	
500 West Fulton St. Sanford, Fl. 32771		
Phone: 407.322.6841		
Licenses:		
	Arch. Lic. No. AA2600926	MA
Survey L.B. No. 7143	Landscp. Lic. No. LC0000298	

Line And Curve Table (E Survey)

### **DEFINITION OF ENTITIES:**

- FOR THE PURPOSE OF THESE PLANS, THE FOLLOWING ENTITIES SHALL BE DEFINED AS:
- MAINTAINING AGENCY SEMINOLE COUNTY OR ANY OF THE COUNTY'S ASSIGNEES OR AUTHORIZED REPRESENTATIVES. E.G. COUNTY DEPARTMENTS, INSPECTORS, ENGINEERS OR OTHER INDIVIDUALS AS THE COUNTY MAY DESIGNATE AS REPRESENTING THE COUNTY'S INTERESTS.
- ENGINEER OF RECORD MATTHEW C. CUSHMAN, P.E., CPH INC.
   WATER MANAGEMENT DISTRICT ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
- CONTRACTOR THE INDIVIDUAL, FIRM, JOINT VENTURE, OR COMPANY PERFORMING THE WORK.

### **GOVERNING DOCUMENTS:**

- THE CONTRACTOR SHALL REVIEW ALL PERMITS, PERMIT EXEMPTIONS, AND REPORT LOGS LOCATED IN THE CONTRACT DOCUMENTS PRIOR TO 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.
- ALL REFERENCED GOVERNING DOCUMENTS SHALL BE UNDERSTOOD TO REFER TO THE LATEST EDITION AND/OR REVISION UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS OR AS IDENTIFIED ON THE COVER SHEET OF THIS PLAN SET. THE "CURRENT" EDITION OR REVISION OF THE REFERENCED GOVERNING DOCUMENTS ON THE DATE OF BID SOLICITATION/ADVERTISEMENT SHALL BE THE DEFAULT/FARLIEST REFERENCED GOVERNING DOCUMENT UNLESS OTHERWISE NOTED
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AS DEFINED WITHIN THE CONTRACT DOCUMENTS. CONSTRUCTION WORK SHALL CONFORM TO THE CONSTRUCTION SPECIFICATIONS OF THE MAINTAINING AGENCY (IF ANY), THE FDOT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND UTILITY CONSTRUCTION, AND THE FDOT STANDARD PLANS (EDITIONS AND REVISIONS CURRENT AT THE TIME OF PROJECT ADVERTISEMENT FOR BID) AT A MINIMUM.
- THE OWNER SHALL FURNISH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), U.S. ARMY CORP OF ENGINEERS (U.S.A.C.O.E.) AND THE WATER MANAGEMENT DISTRICT PERMITS APPLICABLE). THE CONTRACTOR SHALL OBTAIN A RIGHT OF WAY UTILIZATION PERMIT AND A DEWATERING IF REQUIRED. THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND ABIDE BY ALL PERMIT CONDITIONS, INSPECTION SCHEDULES, AND OTHER RELEVANT REGULATORY AGENCY RULES AND SPECIAL CONDITIONS.
- THE EROSION CONTROL MEASURES PER "STATE OF FLORIDA EROSION AND SEDIMENT CONTROL MANUAL" AND FDOT STANDARD SPECIFICATION SECTION 104 ARE THE MINIMUM REQUIRED. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO FIELD CONDITIONS AS DETERMINED BY THE MAINTAINING AGENCY OR OTHER GOVERNING REGULATORY AGENCIES.
- TRAFFIC & PEDESTRIAN CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX SERIES 102 AT A MINIMUM.
- FOR STABILIZING AT INTERSECTIONS, TURNOUTS AND GRADED CONNECTIONS, SEE F.D.O.T. STANDARD PLAN INDEX NO. 330-001, 522-003 AND/OR F.D.O.T. DESIGN MANUAL CHAPTER 212.

#### NOTIFICATION REQUIREMENTS:

- THE CONTRACTOR SHALL NOTIFY THE MAINTAINING AGENCY A MINIMUM OF ONE (1) WEEK PRIOR TO COMMENCING ANY CONSTRUCTION RELATED ACTIVITY.
- UPON AWARD OF CONTRACT, CONTRACTOR SHALL MAKE NECESSARY CONSTRUCTION NOTIFICATIONS AND APPLY FOR AND OBTAIN NECESSARY PERMITS, PAY FEES, AND POST BONDS ASSOCIATED WITH THE WORK INDICATED ON THE DRAWINGS, IN THE SPECIFICATIONS, AND IN THE CONTRACT DOCUMENTS. DO NOT CLOSE OR OBSTRUCT ROADWAYS, SIDEWALKS, AND FIRE HYDRANTS, WITHOUT APPROPRIATE PERMITS
- CONSTRUCTION ACTIVITIES SPECIFICALLY REQUIRING INSPECTIONS/TESTING BY THE MAINTAINING AGENCY, ENGINEER OF RECORD, OR ANY OTHER REGULATORY AGENCY SHALL BE CLEARLY IDENTIFIED DURING THE PRECEDING CONSTRUCTION PROGRESS MEETING NO LESS THAN 72 HOURS PRIOR TO THE ASSOCIATED CONSTRUCTION ACTIVITY. FOR ON-GOING/PERIODIC CONSTRUCTION ACTIVITY WHICH SPECIFICALLY REQUIRES INSPECTION AND/OR TESTING (AS IDENTIFIED BY THE MAINTAINING AGENCY DURING THE PRE-CONSTRUCTION MEETING OR THEREAFTER, IN THE REGULAR/DUE COURSE OF THE PROJECT), THE CONTRACTOR SHALL PROVIDE A MINIMUM 48 HOUR NOTICE TO THE MAINTAINING AGENCY AND/OR RESPONSIBLE ENTITY ANY WORK SPECIFICALLY IDENTIFIED AS REQUIRING INSPECTION BY THE MAINTAINING AGENCY, REGULATORY/GOVERNING AGENCY, OR THE ENGINEER OF RECORD MAY BE REQUIRED TO BE REMOVED AND REPLACED AT NO COST TO THE OWNER/PROJECT. CONTRACTORS FAILURE TO ADHERE TO MINIMUM NOTIFICATION PERIODS SHALL NOT BE CONSIDERED AS CAUSE FOR DFLAY.
- ANY APPARENT PLAN DISCREPANCIES SHALL BE BROUGHT (IN WRITING) TO THE ATTENTION OF THE MAINTAINING AGENCY AND ENGINEER OF RECORD IMMEDIATELY UPON IDENTIFICATION SUCH THAT CORRECTIVE ACTION OR CLARIFICATION OF INTENT MAY BE PROVIDED PRIOR TO THE COMMENCEMENT/CONTINUATION OF CONSTRUCTION FOR ANY POTENTIALLY AFFECTED IMPROVEMENT.
- ANY PROPOSED CONSTRUCTED FACILITY WHICH DOES NOT APPEAR TO BE CONSTRUCTABLE ACCORDING TO THE LATEST AMERICANS WITH DISABILITIES ACT (A.D.A.) OR OTHER GOVERNING STANDARD SHALL BE BROUGHT TO THE ATTENTION (IN WRITING) OF THE MAINTAINING AGENCY & ENGINEER OF RECORD IMMEDIATELY UPON IDENTIFICATION SUCH THAT CORRECTIVE ACTION OR CLARIFICATION OF INTENT MAY BE PROVIDED PRIOR TO THE COMMENCEMENT/CONTINUATION OF CONSTRUCTION FOR ANY POTENTIALLY AFFECTED IMPROVEMENT.
- CONTRACTOR SHALL NOTIFY THE MAINTAINING AGENCY UPON COMPLETION OF CONSTRUCTION STAKING. CONTRACTOR AND MAINTAINING AGENCY SHALL REVIEW THE PROJECT AREA TO IDENTIFY ANY/ALL TREES, IN ADDITION TO THOSE IDENTIFIED WITHIN THE PLANS, WHICH MAY REQUIRE REMOVAL.
- ALL PERSONAL PROPERTY WITHIN THE RIGHT-OF-WAY SHALL BE RELOCATED BY THE PROPERTY OWNER. THE CONTRACTOR SHALL COORDINATE WITH THE PROPERTY OWNERS TO PROVIDE NOTIFICATION AND A REASONABLE TIME FRAME TO RELOCATE ITEMS. THE CONTRACTOR SHALL NOTIFY THE MAINTAINING AGENCY PRIOR TO REMOVING THE ITEMS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS UNLESS OTHERWISE STATED IN THE PLANS.

- THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS A MINIMUM OF SEVEN (7) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION. RECORDS OF ALL NOTICES SHALL BE SUBMITTED TO THE MAINTAINING
- UPON COMPLETION OF THE CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT DRAFT "AS-BUILTS" FOR REVIEW TO THE MAINTAINING AGENCY & ENGINEER OF RECORD AND REQUEST A SUBSTANTIAL COMPLETION INSPECTION. THE INTENT OF THE SUBSTANTIAL COMPLETION INSPECTION IS TO PROVIDE THE CONTRACTOR WITH A PUNCH LIST OF INCOMPLETE OR SUBSTANDARD WORK THAT MUST BE CORRECTED ONCE CORRECTIONS ARE MADE THE CONTRACTOR SHALL SCHEDULE A FINAL INSPECTION WITH THE MAINTAINING AGENCY & ENGINEER OF RECORD.
- CONTRACTOR SHALL NOTIFY RESIDENTS 2 WEEKS PRIOR TO CONSTRUCTION. IN ADDITION, CONTRACTOR SHALL NOTIFY RESIDENTS 48 HOURS PRIOR TO ANY WATER OUTAGE AND SERVICE OUTAGES SHALL BE PROVIDED AT 2 WEEKS AND 48 HOUR INTERVALS.

#### PRE-CONSTRUCTION REQUIREMENTS:

- 6. 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.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL MAKE A PRE-CONSTRUCTION VIDEO (DVD FORMAT) ALONG THE PROPOSED ROUTE IN ACCORDANCE WITH THE SPECIFICATIONS. IN PARTICULAR, THE VIDEÓ SHALL DOCUMENT THE CONDITION OF EXISTING VISIBLE CONTROL MONUMENTATION, DRIVEWAYS, BUILDINGS, STRUCTURES, MAILBOXES, SIGNS, FENCES, AND LANDSCAPING ALONG PROPOSED CONSTRUCTION AREAS.
- ANY DRAINAGE PROBLEMS EXISTING BEFORE CONSTRUCTION COMMENCES SHALL BE BROUGHT TO THE ATTENTION OF THE MAINTAINING AGENCY AND ENGINEER OF RECORD PRIOR TO THE BEGINNING OF
- 9. THE CONTRACTOR IS RESPONSIBLE TO FIND AND MAINTAIN THEIR OWN EQUIPMENT AND MATERIAL
- 10. ALL EXISTING VALVE, PULL BOX, & MANHOLE TOPS SHALL BE MARKED PRIOR TO CONSTRUCTION OPERATIONS. ALL SUCH TOPS SHALL BE ADJUSTED TO MATCH FINAL GRADE PRIOR TO SUBSTANTIAL

#### **GENERAL NOTES:**

- CONTRACTOR'S USE OF THE PREMISES SHALL BE CONFINED TO THE LIMITS OF THE EXISTING & PROPOSED RIGHT-OF-WAY AND/OR EASEMENTS. ALL PUBLIC AND PRIVATE PROPERTY AFFECTED BY THE CONSTRUCTION SHALL BE PROTECTED WHERE POSSIBLE. ALL AREAS DISTURBED AS PART OF THIS WORK SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AT THE EXPENSE OF THE CONTRACTOR, ALL EXISTING SODDED AREAS DISTURBED DURING THE CONSTRUCTION SHALL BE REPLACED WITH THE SAME TYPE OF SOD IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS. RE-SODDING SHALL BE A MINIMUM OF 30" WIDE FOR THE LENGTH OF THE DISTURBED AREA. THE MAINTAINING AGENCY APPROVE THE REMOVAL AND REPLACEMENT OF EXISTING IRRIGATION SYSTEMS, AS REQUIRED, AT NO ADDITIONAL COST TO THE MAINTAINING AGENCY OR PROPERTY OWNER, PROPER TEMPORARY ADJUSTMENTS SHALL BE DONE AT SUCH TIME TO MAINTAIN IRRIGATION SYSTEMS FROM BEING INTERRUPTED FOR EXTENDED PERIODS DURING CONSTRUCTION. THE CONTRACTOR SHALL RESPONSIBLE FOR MAINTENANCE OF ALL NEWLY PLANTED GRASS OR VEGETATION UNTIL WELL ESTABLISHED AND ACCEPTED BY THE MAINTAINING AGENCY.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF THE PAVEMENT SURFACE. ALL DEFICIENCIES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE. NO EDGE PATCHES, POTHOLE AND GOUGE PATCHES OR PARTIAL SURFACE WIDTH PATCHES SHALL BE PERMITTED IN THE FINISHED ASPHALT OR CONCRETE SURFACE OF THE TRAIL AND ITS AMENITIES. ALL PATCHING OF THE FINISHED SURFACE SHALL BE FULL WIDTH OF THE SURFACE BEING REPAIRED AND EXTEND AT A MINIMUM ONE (1') FOOT IN LENGTH BEYOND THE IRREGULARITY EDGES. THE COST FOR ALL WORK AND MATERIALS NÈCÉSSARY TO REPAIR THE PAVEMENT SURFACE TO ITS REQUIRED SURFACE PROFILE SHALL BE INCIDENTAL TO THE OTHER CONTRACT PAY ITEM BID COSTS WITH NO ADDITIONAL CHARGE TO THE OWNER.
- ANY MAILBOX WITHIN THE LIMITS OF CONSTRUCTION AND IN CONFLICT WITH THE PROPOSED DESIGN, IS TO BE TAKEN DOWN AND RESET IN ACCORDANCE WITH THE U.S. POST OFFICE REQUIREMENTS AND/OR F.D.O.T. INDEX 110-200
- THE MAXIMUM ALLOWABLE LONGITUDINAL GRADE ON PEDESTRIAN FACILITIES IS 5% UNLESS OTHERWISE INDICATED IN THE PLANS. THE MAXIMUM ALLOWABLE CROSS-SLOPE ON ALL PEDESTRIAN FACILITIES THE SHARED USE PATH IS 2% (PLAN INTENT IS 1.5% UNLESS SPECIFICALLY NOTED OTHERWISE). GRADES AND CROSS SLOPES SHALL COMPLY WITH THE LATEST AMERICANS WITH DISABILITIES ACT (A.D.A.) STANDARDS FOR ACCESSIBLE DESIGN. ALL NON-COMPLIANT FACILITIES, PROPOSED OR CONSTRUCTED, SHALL BE IMMEDIATELY IDENTIFIED (REFER TO NOTIFICATION REQUIREMENTS SECTION)
- ALL PEDESTRIAN FACILITIES PROPOSED WITHIN THIS PLAN SET ARE GRAPHICAL IN NATURE UNLESS THE PLANS. LINE WORK FOR PEDESTRIAN FACILITIES ARE TYPICALLY REPRESENTATIVE OF EXTERIOR LIMITS OF THE PEDESTRIAN FACILITY, PAVEMENT DIFFERENTIATION, SURFACE TREATMENT DETAILS AND/OR GRADE BREAKS. NEITHER CONCRETE EXPANSION JOINTS, COLD JOINTS, NOR SAW CUTS SHALL BE INFERRED FROM THESE PLANS UNLESS SPECIFICALLY NOTED.
  PEDESTRIAN FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ALL GOVERNING CRITERIA (A.D.A.) & FDOT STANDARD PLANS/SPECS AT A MIN.) AS NECESSARY TO PROVIDE AN A.D.A. COMPLIANT FACILITY.
- ALL EXCAVATIONS SHALL CONFORM TO THE REQUIREMENTS OF THE TRENCH SAFETY ACT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER STORAGE AND/OR DISPOSAL OF ALL EXCESS OR UNSUITABLE EXCAVATED MATERIAL. TRENCH PROTECTION WILL BE NEEDED FOR ALL EXCAVATION IN EXCESS OF FIVE (5') IN DEPTH.
- UNSUITABLE MATERIALS ENCOUNTERED DURING EXCAVATION (MUCK, PEAT, CRUSHED CONC., ETC.) SHALL BE REMOVED FROM THE CONSTRUCTION AREAS AND BACKFILLED WITH SUITABLE MATERIALS.
- ALL CONCRETE TO BE REMOVED SHALL BE SAW CUT AT THE NEAREST GOOD JOINT. GUTTERS SHALL BE SAW CUT BETWEEN ASPHALT AND GUTTER PRIOR TO REMOVAL. ALL SAW CUTTING SHALL BE WET CUT TO
- CONTRACTOR SHALL SET THE MANHOLE RIMS AT THE FINISHED GRADE ELEVATIONS, ENSURING ADA COMPLIANCE. THIS MAY REQUIRE FIELD ADJUSTMENT IF THE FINISHED GRADE IS DIFFERENT THAN THE PROPOSED RIM ELEVATIONS.

- 10. PROPOSED MANHOLE RING AND COVERS SHALL CONFORM TO MAINTAINING AGENCY REQUIREMENTS (IF ANY). ANY EXISTING MANHOLE RINGS AND COVERS SHALL BE RETURNED TO THE MAINTAINING AGENCY
- 11. THE CONTRACTOR SHALL PROVIDE THE SERVICES OF A TESTING LABORATORY TO DETERMINE WHETHER THE REQUIREMENTS FOR MATERIALS SPECIFICATIONS ARE MET. THE CONTRACTOR SHALL GIVE THE MAINTAINING AGENCY A MINIMUM OF 48 HOURS NOTICE WHEN REQUESTING FIELD TESTS. THE CONTRACTOR SHALL NOTIFY THE MAINTAINING AGENCY 48 HOURS BEFORE STARTING ANY ACTIVITY THAT
- 12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TEMPORARY CONTROLS AND/OR STRUCTURES REQUIRED TO MAINTAIN SUITABLE AND SAFE WORKING CONDITIONS AT ALL TIMES. SUCH ITEMS SHALL BE REMOVED ONCE THE ASSOCIATED COMPONENT OF WORK HAS BEEN COMPLETED.
- 13. ALL PUBLIC AND PRIVATE PROPERTY AFFECTED BY THE CONSTRUCTION WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION. (REFER TO PRE-CONSTRUCTION REQUIREMENTS FOR PROJECT VIDEO REQUIREMENT).
- 14. CONSTRUCTION SHALL INCLUDE REPLACING, WITH MATCHING MATERIALS: ANY DRIVEWAYS, WALKS, CURBS, SOD, ETC. THAT ARE DAMAGED OR REMOVED DUE TO CONSTRUCTION. THIS WORK SHALL BE COORDINATED WITH THE PROPERTY OWNERS. PAYMENT FOR THIS WORK SHALL BE INCIDENTAL TO THE OTHER CONTRACT ITEMS
- 15. REFERENCE TO NORMAL AND/OR REVERSE CROWN SHALL BE GENERALLY DEFINED AS FOLLOWS IN THE DIRECTION OF INCREASING STATIONING (UNLESS OTHERWISE NOTED IN PLANS);
  - NORMAL CROWN SHALL BE AS REFERRING TO MULTI-USE PATH AND/OR SIDEWALK CROSS SLOPE AS BEING GREATER THAN 0% AND NOT EXCEEDING 1.5% TOWARDS RIGHT SIDE.
  - REVERSE CROWN SHALL BE AS REFERRING TO MULTI-USE PATH AND/OR SIDEWALK CROSS SLOPE AS BEING GREATER THAN 0% AND NOT EXCEEDING 1.5% TOWARDS LEFT SIDE.

CROSS SLOPE DIRECTION MAY BE VARIED AS NECESSARY TO ACCOMMODATE FIELD CONDITIONS DURING CONSTRUCTION CONDITIONALLY TO DESIGN DRAINAGE PATTERN BEING MAINTAINED AND GENERAL ADHERENCE TO CROSS SECTIONS AS PROVIDED IN PLANS. TYPICAL SECTIONS ARE PROVIDED FOR GENERAL REFERENCE WITHIN COMMON REGIONS AND SHALL NOT BE BUILT TO AS CROSS SECTIONS SHALL SUPERSEDE AS BEING DESIGNED FOR SPECIFIC CONDITIONS WITHIN A SPECIFIED AREA.

16. CONSTRUCTION MATERIALS AND EXCAVATED MATERIALS SHALL BE STORED OR STOCK PILED WITHOUT CONSTRUCTION MATERIALS AND EXCAVALED MATERIALS SHALL BE STORED OR STOCK PILED WITHOUT CAUSING ANY OBSTRUCTION OR INCONVENIENCE TO THE RESIDENTS. CONTRACTOR SHALL PLACE SILT FENCE AROUND THE PERIMETER OF ALL STOCKPILED MATERIALS. MAXIMUM HEIGHT OF STOCKPILED MATERIALS SHALL NOT EXCEED 20'

#### SURVEY NOTES:

- SURVEYING SERVICES USED IN PREPARING THESE PLANS HAVE BEEN PROVIDED BY CPH, INC. IN THE CASE OF ANY APPARENT DISCREPANCIES BETWEEN THE SURVEY DATA, AS INCLUDED WITHIN THESE PLANS, AFOREMENTIONED SURVEY DATA SHALL SUPERSEDE. ANY APPARENT DISCREPANCIES SHALL BE IMMEDIATELY IDENTIFIED (REFER TO NOTIFICATION REQUIREMENTS SECTION).
- ANY HORIZONTAL/VERTICAL CONTROL MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONSTRUCTION MANAGER SHALL NOTIFY THE MAINTAINING AGENCY, COUNTY SURVEYOR AND THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF SURVEY AND MAPPING, 3900 COMMONWEALTH BOULEVARD, M.S. 100, TALLAHASSEE, FLORIDA 32399 (TEL. (850) 245-2555) IMMEDIATELY.
- ANY PUBLIC LAND CORNER, GPS, F.D.O.T., COUNTY, OR CITY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER OR MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR'S CONSTRUCTION MANAGER SHALL NOTIFY THE PROPER JURISDICTION(S) IN RESPONSIBLE OVERSIGHT OF THE IMPACTED MONUMENTATION WITHOUT DELAY BY TELEPHONE AND IN WRITING.
- ALL SURVEY CORNERS INDICATED ON THE PLANS SHALL BE REFERENCED BY A STATE OF FLORIDA PROFESSIONAL SURVEYOR AND MAPPER PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY MONUMENTATION DESTROYED OR OBLITERATED BY CONSTRUCTION SHALL BE RESET AND SO CERTIFIED SURVEYOR AS TO BEING AN ACCURATE PERPETUATION OF THE DEPICTED CONTROL MONUMENTATION PRIOR TO THE COMPLETION OF THE PROJECT.
- ALL STATIONING AND OFFSETS ARE FROM, AND PERPENDICULAR OR RADIAL TO THE REFERENCED BASELINE OF CONSTRUCTION AS IDENTIFIED WITHIN THE PLANS (E.G. BL OF CONST. OR BL OF SURVEY).
- 7. VERTICAL DATUM IS NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88). ANY BENCHMARK WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONSTRUCTION MANAGER SHALL NOTIFY:

THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION BURFAU OF SURVEYAND MAPPING 3900 COMMONWEALTH BOULEVARD, M.S. 100 TALLAHASSEE, FLORIDA 32399 PHONE (850) 245-2555

THE CONTRACTOR SHALL ENSURE THAT ALL SURVEY CONTROL POINTS SHOWN ON THE PLANS AND ANY PROPERTY CORNERS ALONG THE ROUTE OF THE PROJECT ARE PROTECTED AND SHALL BE REFERENCED AND MAINTAINED PRIOR TO BEING DISTURBED. THIS WORK MUST BE PERFORMED UNDER THE DIRECT SUPERVISION OF A FLORIDA LICENSED SURVEYOR AND MAPPER WHO SHALL PROVIDE SIGNED AND SEALED COPIES OF THE WORK AT THE REQUEST OF THE MAINTAINING AGENCY. ALL REFERENCING WORK IS SUBJECT TO REVIEW AND APPROVAL BY THE MAINTAINING AGENCY, AS REQUIRED BY SECTION 01050 THE CONTRACT DOCUMENTS. ALL SURVEY CORNERS INDICATED ON THE PLANS SHALL BE REFERENCED AND CERTIFIED BY A PROFESSIONAL SURVEYOR AND MAPPER PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL CORNERS DESTROYED OR OBLITERATED BY CONSTRUCTION ACTIVITIES SHALL BE RESET AND SO CERTIFIED BY THE LAND SURVEYOR PRIOR TO COMPLETION OF THE PROJECT.

#### SURVEY NOTES CONTINUED ON NEXT PAGE

MATTHEW C. CUSHMAN, P.E.

A Full Service A & E Firm M/E/P

Designed by: CJT Date: 05/09/2024 Drawn by: AM Scale: AS NOTE KRL Checked by: MCC

Lake Monroe Trail Loop Seminole County Phase I

Plans Prepared E ng. C.O.A. No. 3215 Arch. Lic. No. AA2600926

General Notes

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### **SURVEY NOTES (CONTINUED):**

- THE CONTRACTOR SHALL FURNISH THE MAINTAINING AGENCY WITH AN "AS-BUILT SURVEY" PREPARED BY A FLORIDA LICENSED SURVEYOR AND MAPPER. THE AS-BUILT SURVEY WILL INCLUDE HORIZONTAL AND VERTICAL DIMENSIONS OF ALL CONSTRUCTED IMPROVEMENTS WHICH MUST BE CLEARLY SHOWN BY SYMBOLS, NOTATIONS AND DELINEATION, AND SHALL BE LOCATED IN STATE PLANE COORDINATES. THE CONTRACTOR SHALL SUBMIT THE AS-BUILT SURVEY WITH EACH PAY REQUEST FOR PARTIAL APPROVAL. FAILURE TO MEET THIS REQUIREMENT WILL BE REASON TO REJECT FUTURE PAY REQUESTS UNTIL APPROVAL IS OBTAINED. ALL AS-BUILT SURVEYS WILL BE REVIEWED AND APPROVED FOR CONFORMITY WITH FLORIDA ADMINISTRATIVE CODE 5J-17.052 BY THE MAINTAINING AGENCY.
- 10. ALL PROPOSED GRADES ARE FINISHED GRADES.
- 11. ANY NATIONAL GEODETIC SURVEY (N.G.S.) MONUMENT WITHIN LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY:

DIRECTOR, NATIONAL GEODETIC SURVEY 1315 EAST WEST HIGHWAY SILVER SPRING, MARYLAND 20910-2382 PHONE: (301) 713-3242

12. THE FOLLOWING PUBLISHED BENCHMARKS AS ESTABLISHED BY THE NAVD 88 (NORTH AMERICAN VERTICAL DATUM OF 1988) AND SAID ELEVATIONS ARE MATCHED TO VERTICAL CONTROL BENCHMARKS FROM NATIONAL GEODETIC SURVEY (NGS) VERTICAL CONTROL SHEETS WHICH ARE AS FOLLOWS:

DESIGNATION #R 485, PID #AJ5512 (NAVD '88) ELEVATION = 3.44

DESIGNATION #UC 13, PID #AK0753 (NAVD '88) ELEVATION = 15.90

13. STATE PLANE INFORMATION SHOWN HERE ON IS BASED ON THE NORTH AMERICAN DATUM OF 1983 (2007) USING CONTROL POINTS FROM THE NGS DATA SHEETS PUBLISHED AT WWW.LABINS.ORG WHICH ARE AS FOLLOWS:

> DESIGNATION # BREVARD GPS 5050 LYNN, PID #DG8746 = N 1.551,048.98 FEET, E DESIGNATION # UC 13, PID #AK0753 = N 1,566,581.04 FEET, E 737,232.56 FEET

#### TREES:

- 1. ALL TREES WITHIN LIMITS OF CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE NOTED.
- REMOVE AND DISPOSE OF ALL TREES IDENTIFIED IN THE PLANS TO BE REMOVED, OR AS IDENTIFIED FOR REMOVAL BY THE MAINTAINING AGENCY (REFER TO NOTIFICATION REQUIREMENTS), WITHIN THE PROJECT LIMITS. TREE REMOVAL SHALL INCLUDE STUMPS, ROOTS AND OTHER SUCH PROTRUDING OBJECTS (UNLESS OTHERWISE SPECIFIED IN THE PLANS) OR PER FDOT SPECIFICATION 110-2 AT A MINIMUM. REMOVE AND DISPOSE OF ALL PRODUCT AND DEBRIS NOT REQUIRED TO BE SALVAGED OR NOT REQUIRED TO COMPLETE THE CONSTRUCTION.
- FOR TREES THAT REMAIN, THE CONTRACTOR SHALL PROTECT TREES INCLUDING MAINTAINING MINIMUM UNDISTURBED AREAS. WHEN NECESSARY TO CUT ROOTS OVER 1-1/2" DIA., THE CUT MUST BE CLEAN. TEMPORARILY COVER EXPOSED ROOTS WITH WET BURLAP TO PREVENT DRYING AND COVER WITH EARTH AS SOON AS POSSIBLE. INTERFERING BRANCHES MAY BE REMOVED AT THE DIRECTION OF MAINTAINING AGENCY BY A QUALIFIED TREE SURGEON, REPAIR OR REPLACE TREES DAMAGED DURING CONSTRUCTION AT THE DIRECTION OF THE MAINTAINING AGENCY AND OBTAIN PRIOR APPROVAL OF TREE REMOVAL, WHERE NECESSARY. EMPLOY A QUALIFIED TREE SURGEON TO REPAIR MAJOR DAMAGE TO TREES PROMPTLY TO PREVENT PROGRESSIVE DETERIORATION CAUSED BY THE DAMAGE. CONTRACTOR SHALL BE RESPONSIBLE, IN ADDITION TO ANY FINES, FOR THE REPLACEMENT OF ANY REMOVED OR DAMAGED TREE WITH NEW TREE(S) OF SIMILAR QUALITY AND SPECIES SIZED AT THE DIRECTION OF THE MAINTAINING AGENCY. IF TREES ARE HARMED THROUGH LACK OF PROTECTION OR THROUGH NEGLIGENCE OF THE CONTRACTOR OR HIS SUBCONTRACTORS, THE CONTRACTOR SHALL BEAR COST OF REPAIR AND REPLACEMENT. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE MAINTAINING AGENCY PRIOR TO ANY TRIMMING OR REMOVAL. FDOT SPEC 110-3 SHALL BE MINIMUM CRITERIA FOR TREE (TO REMAIN) PROTECTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR LITTER REMOVAL (TRASH, TREE LIMBS, BRUSH PILES, AND OTHER MAN MADE DEBRIS) ALONG ENTIRE RIGHT-OF-WAY, TO PROVIDE A LITTER FREE CORRIDOR AT COMPLETION OF CONSTRUCTION. TREE LIMBS AND OTHER PLANT DEBRIS MAY BE FINELY MULCHED AND SPREAD IN BARE SOIL AREAS OF THE PROJECT CORRIDOR AS DIRECTED BY THE MAINTAINING AGENCY.

#### TRAFFIC CONTROL:

1. REFER TO TRAFFIC CONTROL PLANS

#### STORMWATER / EROSION CONTROL:

1. REFER TO STORM WATER POLLUTION & PREVENTION PLANS

### **UTILITIES:**

UNDER NO CIRCUMSTANCE SHALL THE ACTIVITIES OF THE CONTRACTOR OR HIS SUBCONTRACTORS CAUSE ANY INTERRUPTIONS TO THE SERVICE OR OPERATION OF EXISTING UTILITIES WITHOUT WRITTEN AUTHORIZATION FROM AN AUTHORIZED REPRESENTATIVE OF THE UTILITY COMPANY OR OWNER. ANY PIPING OR OTHER UTILITIES WHICH CAN BE REMOVED DURING CONSTRUCTION WITHOUT UNDUE INTERRUPTION OF SERVICE MAY BE REMOVED AND REPLACED BY THE CONTRACTOR WITH THE PERMISSION OF THE MAINTAINING AGENCY AND THE UTILITY OWNER. CONTRACTOR SHALL COPY THE MAINTAINING AGENCY OF ALL CORRESPONDENCE WITH UTILITY OWNER.

- ALL EXISTING UTILITIES ARE TO BE ADJUSTED BY THE UTILITY OWNER UNLESS OTHERWISE NOTED IN THE 5. STAGE OPERATIONS TO MINIMIZE THE TIME THAT EXCAVATIONS ARE OPEN AND THE TIME THAT EXCAVATIONS PLANS. CONTRACTOR IS TO COORDINATE WITH THE UTILITY OWNER FOR SCHEDULING OF UTILITY ARE EXPOSED TO THE WEATHER. ADJUSTMENTS SUCH THAT THEY WILL NOT INTERFERE WITH THE CONTRACTORS CONSTRUCTION SCHEDULE FAILURE OF CONTRACTOR TO PROPERLY NOTIFY AND/OR SCHEDULE WORK BY THE UTILITY OWNER WILL NOT BE CONSIDERED AS CAUSE FOR DELAY.
- EXISTING IRRIGATION LINES/SYSTEMS IN CONFLICT WITH PROPOSED IMPROVEMENTS SHALL BE ADJUSTED AS NECESSARY TO BE RELOCATED OUTSIDE OF THE PROPOSED IMPROVEMENTS. THE COST FOR THESE ADJUSTMENTS SHALL BE INCIDENTAL TO THE PAYMENT OF ASSOCIATED WORK UNLESS OTHERWISE NOTED
- 4. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES AND STRUCTURES ARE APPROXIMATE. WHILE CONSIDERABLE EFFORT HAS BEEN MADE BY THE MAINTAINING AGENCY, THE SURVEYOR, THE VARIOUS UTILITY COMPANIES AND THE ENGINEER TO ACCURATELY LOCATE EXISTING LINES AND APPURTENANCES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITY LOCATIONS. ELEVATIONS AND DIMENSIONS BY UTILIZING EXPLORATORY EXCAVATION, WHICH SHALL BE MADE 7 DAYS OR 1000 FEET IN ADVANCE OF THE WORK, WHICHEVER IS GREATER. IF THERE IS A POTENTIAL CONFLICT, THE CONTRACTOR IS TO NOTIFY THE MAINTAINING AGENCY AND ENGINEER OF RECORD IMMEDIATELY. NO CLAIMS FOR DELAYS WILL BE PAID UNLESS THIS PROCEDURE HAS BEEN FULLY FOLLOWED. ANY DAMAGE TO UTILITIES, STRUCTURES AND/OR SERVICES SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE, IN A MANNER APPROVED BY AND COORDINATED WITH THE UTILITY OWNER. CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE UTILITY OWNER REGARDING ANY UNINTENDED INTERRUPTION TO SERVICE OR DAMAGE TO EXISTING STRUCTURES OR UTILITIES.
- 5. CHAPTER 17-153 OF THE FLORIDA STATUTES REQUIRES THAT THE COMPANY PERFORMING THE EXCAVATION WORK SHALL NOTIFY ALL GAS UTILITIES A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO EXCAVATING. DRAWINGS SHOW ONLY THE APPROXIMATE LOCATION OF GAS MAINS (IF ANY ARE PRESENT), AND DO NOT SHOW SERVICE LINES. THE ONLY SAFE AND PROPER WAY TO LOCATE EITHER MAINS OR SERVICE LINES IS BY AN ON-SITE INSPECTION BY GAS SYSTEM PERSONNEL. THEREFORE, THE COMPANY PERFORMING THE EXCAVATION WORK IS INSTRUCTED TO TELEPHONE SUNSHINE STATE ONE CALL AT 1-800-432-4770 AT LEAST THREE (3) WORKING DAYS BEFORE DIGGING IN THE CONSTRUCTION AREA. NO MACHINE EXCAVATION SHALL BE PERFORMED WITHIN FIVE (5) FEET OF A GAS MAIN WITHOUT THE UTILITY OWNERS PRESENCE.
- 6. ALL EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
- 7. KNOWN UTILITY OWNERS WITHIN THE PROJECT LIMITS INCLUDE BUT MAY NOT BE LIMITED TO:

UTILITY/AGENCY OWNERS	CONTACT	TELEPHONE NUMBER
AT&T (DISTRIBUTION) CITY OF SANFORD (WATER/SEWER/RECLAIM) CHARTER COMMUNICATIONS/SPECTRUM FLORIDA POWER LIGHT (DISTRIBUTION) FLORIDA PUBLIC UTILITIES VERIZON/MCI ZAYO GROUP SEMINOLE COUNTY TRAFFIC	KIRBY SMART DEBORAH COLES LASZLO WAGNER CHRISTOPHER BUONANNI JOHN HILL TIMOTHY COLE MARK MATHIS CHARLES WETZEL	386-366-4586 407-688-5000 EXT-5524 407-467-6187 407-328-1911 352-636-7056 407-506-8635 813-499-0750 407-665-5686

- THE CONTRACTOR IS TO CONTACT THE SUNSHINE STATE ONE CALL OF FLORIDA, INC. CENTER (1-800-432-4770) AT LEAST TWO (2) DAYS (48 HOURS) PRIOR TO THE START OF CONSTRUCTION (PER CHAPT. 556 OF THE F.S.).
- ALL STAKING OF PROPOSED CONSTRUCTION TO ALLOW FOR PROPER INSTALLATION/RELOCATION OF UTILITY FEATURES, AS INDICATED ON THE UTILITY WORK SCHEDULE, SHALL BE PERFORMED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH OWNER OF THE IMPACTED UTILITY AND STAKE THE ITEMS REQUESTED. THIS STAKING SHALL BE SEPARATE AND IN ADDITION TO THE NORMAL STAKING FOR THE PROJECT. THE COST OF THIS STAKING SHALL BE INCIDENTAL TO AND INCLUDED IN THE COST OF THE ASSOCIATED WORK.
- 10. THE EXISTING SEMINOLE COUNTY BURIED FIBER OPTIC ALONG MELLONVILLE AVENUE, FROM 2ND STREET TO CELERY AVENUE, IS CONSIDERED TO BE CRITICAL COMMUNICATION AND SHALL REMAIN ACTIVE DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REPAIRING ALL DAMAGES TO THIS CABLE DURING CONSTRUCTION AND SHALL HAVE THE CABLE REPAIRED WITHIN 4 HRS.

#### ARSENIC CONTAMINATION NOTES:

ARSENIC IMPACTS WERE FOUND BETWEEN STATIONS 181+00 AND 195+00 TO A MINIMUM DEPTH OF 2 FEET. THE CONTRACTOR SHALL COMPLY WITH THE FOLLOWING REQUIREMENTS TO AVOID POTENTIAL CONSTRUCTION WORKER AND PUBLIC EXPOSURE TO ARSENIC-CONTAMINATED MEDIA:

- 1. PERFORM ALL WORK IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
- PROVIDE A SITE-SPECIFIC HEALTH AND SAFETY PLAN TO ADDRESS ARSENIC-CONTAMINATED MEDIA DURING CONSTRUCTION. THE PLAN SHALL AT A MINIMUM INCLUDE WORKER TRAINING FOR HANDLING POTENTIALLY CONTAMINATED SOIL AND FREQUENT HEALTH AND SAFETY MEETINGS TO REINFORCE THE TRAINING. THE PLAN SHALL BE REVIEWED AND APPROVED BY A CERTIFIED INDUSTRIAL HYGIENIST WITH A MINIMUM OF 5 YEARS OF EXPERIENCE PROVIDING SIMILAR HEALTH AND SAFETY PLANS. THE CIH SHALL DETERMINE IF PERSONAL AND/OR AIR MONITORING WILL BE REQUIRED. DOCUMENTATION OF THE CIH REVIEW, INCLUDING CIH QUALIFICATIONS, SHALL BE PROVIDED TO THE OWNER OR HIS REPRESENTATIVE.
- ALL PERSONNEL WHO EXCAVATE, HANDLE, OR MAY COME IN CONTACT WITH CONTAMINATED SOILS SHALL OSHA 24-HOUR OR 40-HOUR HAZWOPER CERTIFIED, WITH ANNUAL 8-HOUR UPDATES AS NECESSARY
- TRAIN CONTRACTOR PERSONNEL IN THE PROPER USE OF PERSONNEL PROTECTIVE EQUIPMENT (PPE) AND THE PROPER HANDLING PROCEDURES FOR CONTAMINATED MEDIA.

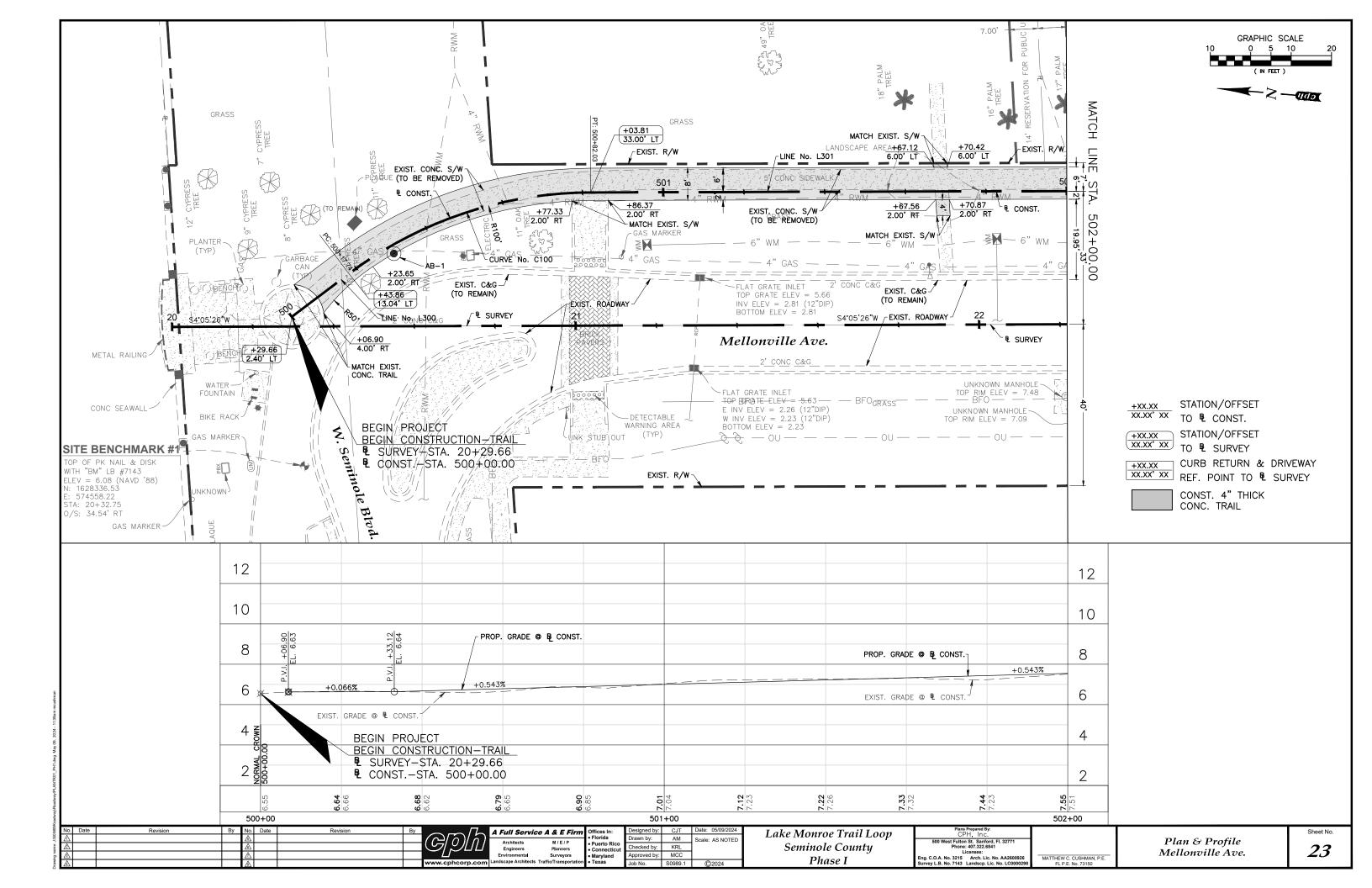
- PROVIDE PROTECTION MEASURES AROUND EXCAVATIONS TO PREVENT STORMWATER RUNOFF FROM EXCAVATED AREAS AND CONTAIN THE SOIL WITHIN THE EXCAVATIONS.
- 7. PREPARE A SOIL MANAGEMENT PLAN FOR HANDLING AND ISOLATING CONTAMINATED SOIL.
- DESIGN AND IMPLEMENT AN EROSION AND SEDIMENTATION CONTROL PLAN TO PREVENT MIGRATION OF CONTAMINATED SOIL ON-SITE AND OFF-SITE VIA DUST, EROSION (WIND AND WATER), AND CONSTRUCTION
- EXCAVATED IMPACTED SOILS IN THE IDENTIFIED AREAS SHOULD BE CHARACTERIZED FOR DISPOSAL AND TRANSPORTED TO A SUBTITLE D LANDFILL PERMITTED TO ACCEPT THE CONTAMINATED MATERIAL.

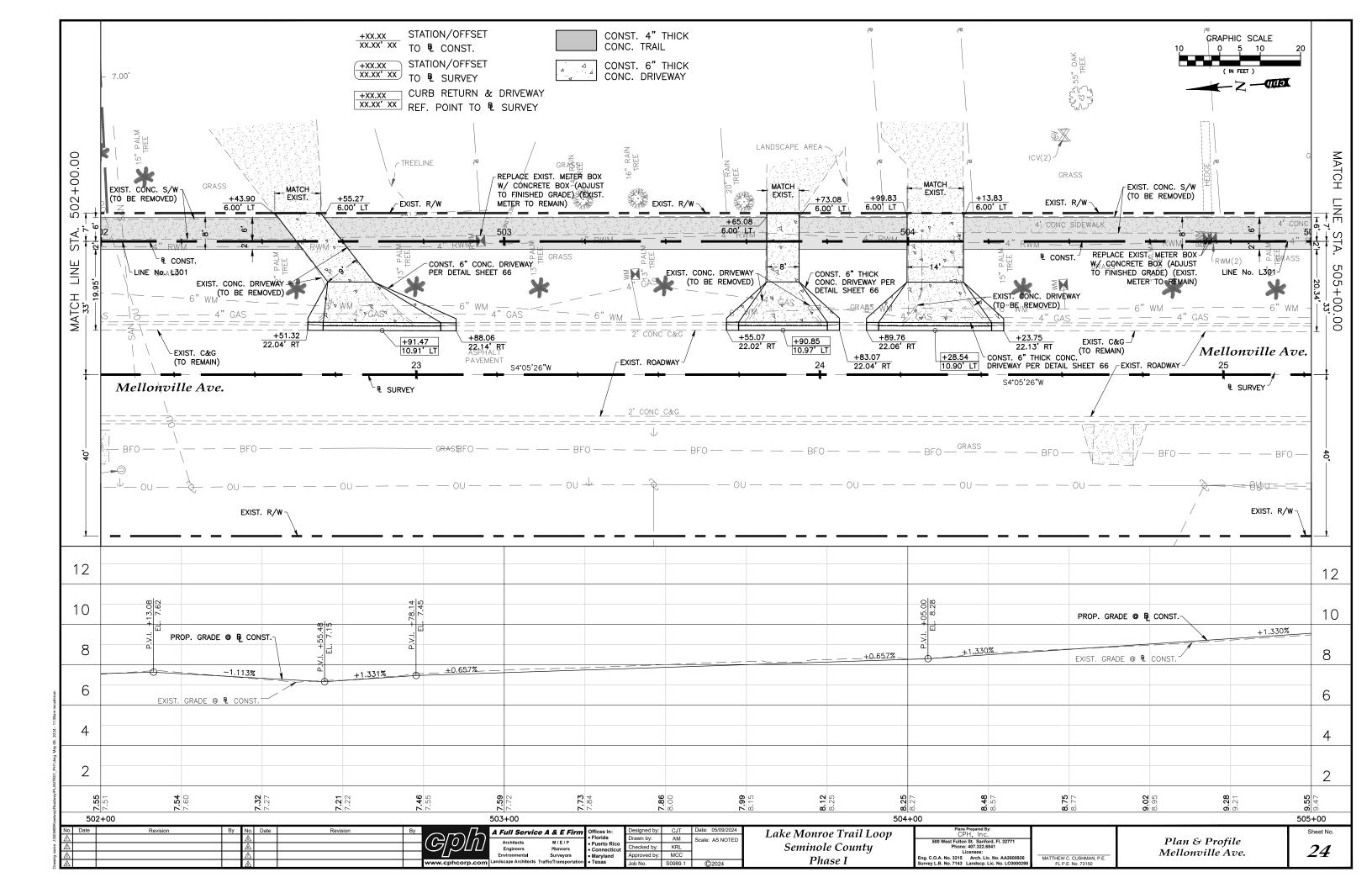
#### PROTECTED SPECIES:

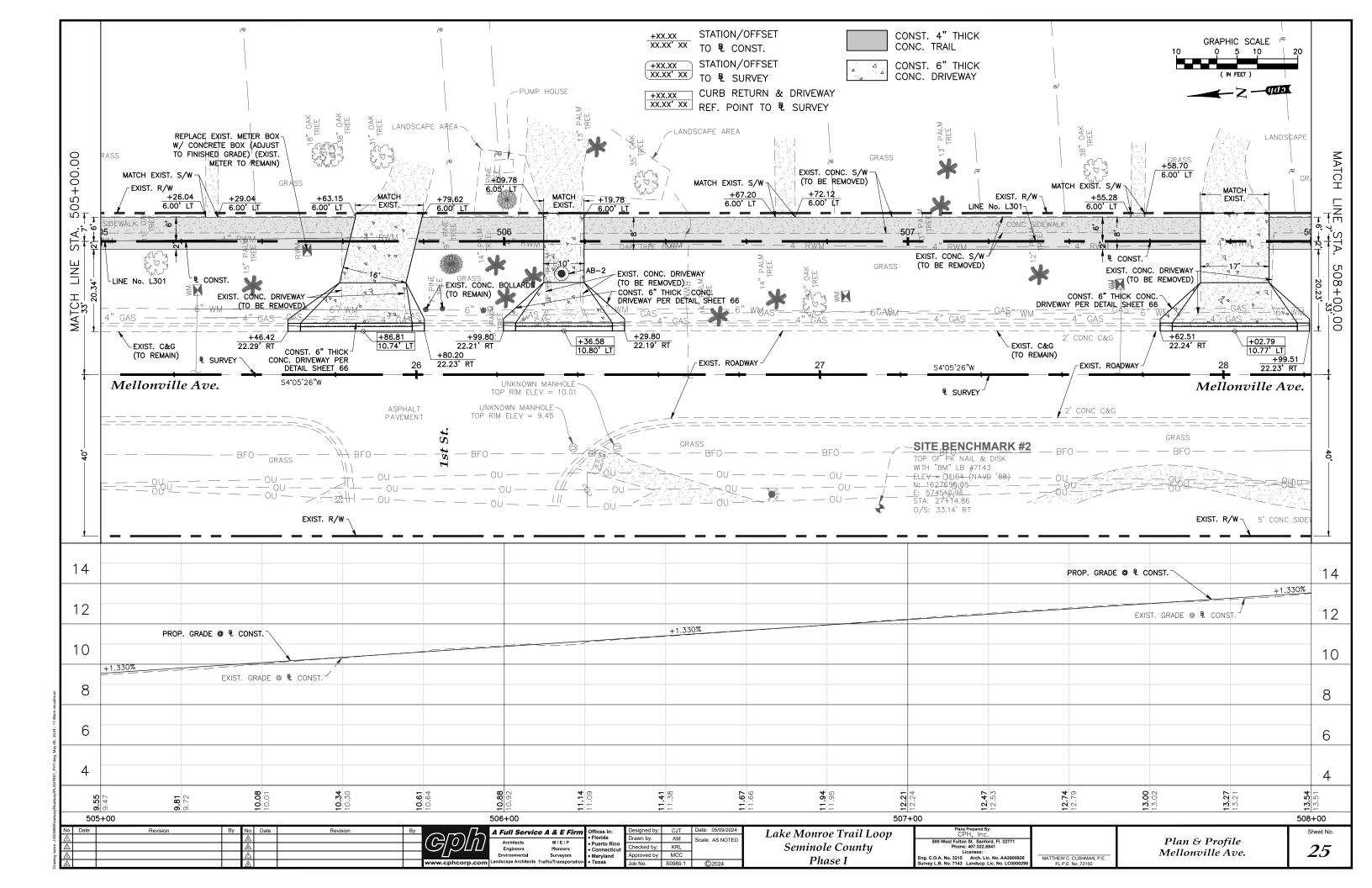
THE EASTERN INDIGO SNAKE IS CLASSIFIED AS A THREATENED SPECIES BY BOTH THE USFWS AND THE FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC). "TAKING" OF EASTERN INDIGO SNAKES IS PROHIBITED BY THE ENDANGERED SPECIES ACT (ESA) WITHOUT A PERMIT. "TAKE" IS DEFINED BY THE USFWS AS AN ATTEMPT TO KILL, HARM, HARASS, PURSUE, HUNT, SHOOT, WOUND, TRAP, CAPTURE, COLLECT. OR ENGAGE IN ANY SUCH CONDUCT. A PENALTIES INCLUDE A MAXIMUM FINE OF \$25,000 FOR CIVIL VIOLATIONS AND UP TO \$50,000 AND/OR IMPRISONMENT FOR CRIMINAL OFFENSES, IF CONVICTED,

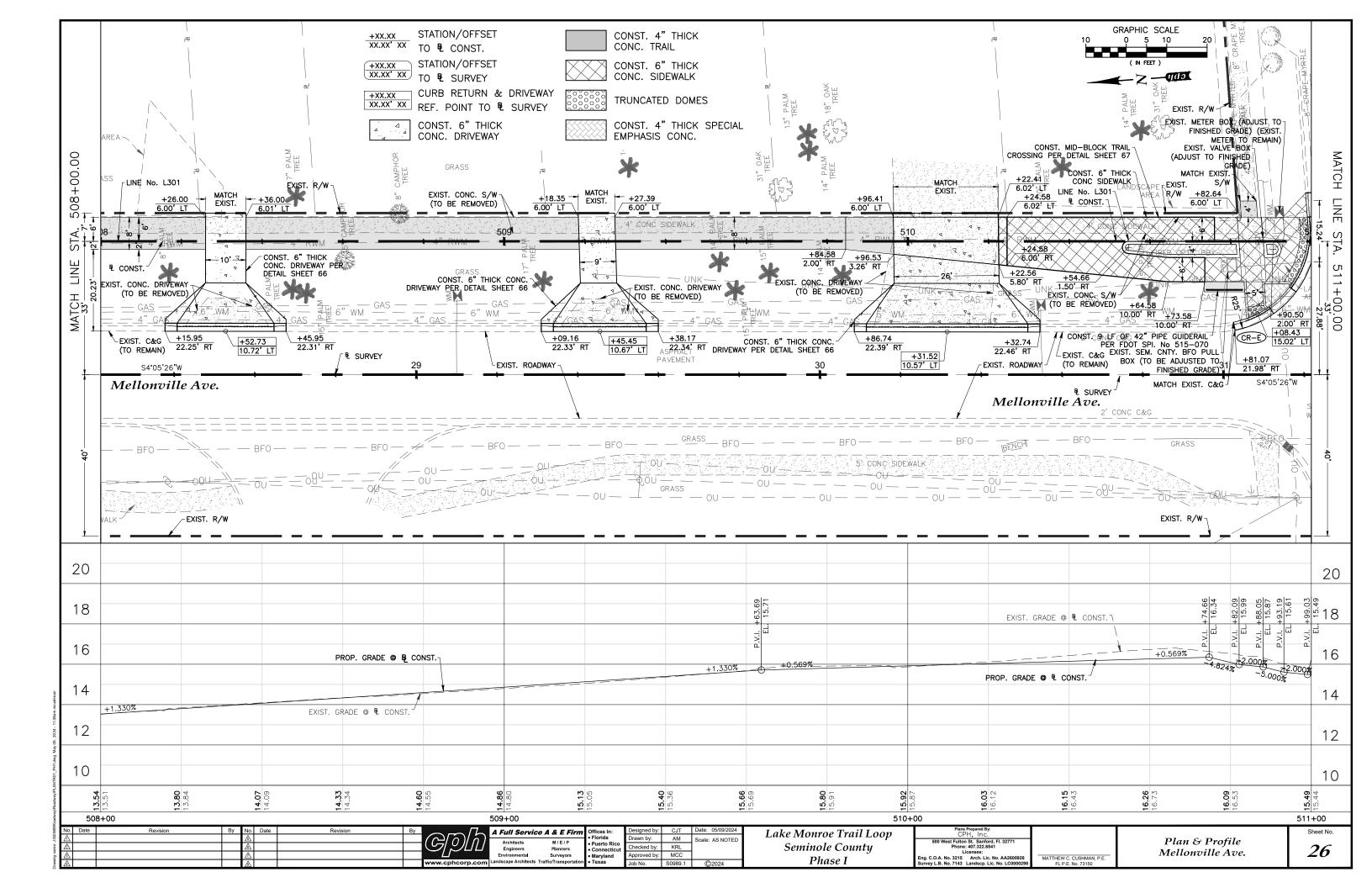
ONLY INDIVIDUALS CURRENTLY AUTHORIZED THROUGH AN ISSUED INCIDENTAL TAKE STATEMENT IN ASSOCIATION WITH A USFWS BIOLOGICAL OPINION, OR BY A SECTION 10(A)(1)(A) PERMIT ISSUED BY THE USFWS, TO HANDLE AN EASTERN INDIGO SNAKE ARE ALLOWED TO DO SO.

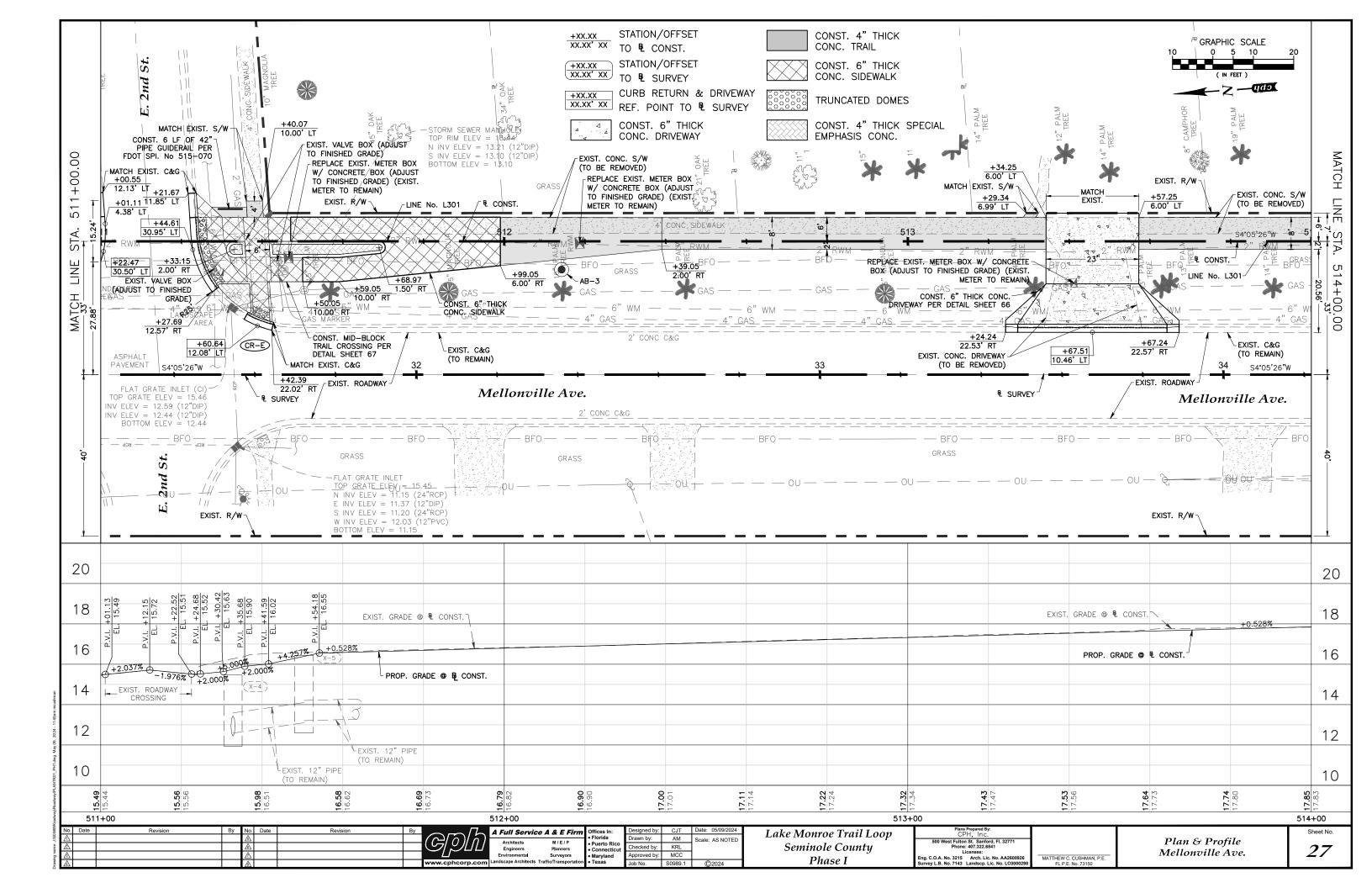
CONTRACTOR SHALL ADHERE TO THE "STANDARD PROTECTION MEASURES FOR THE EASTERN INDIGO SNAKE" AS PUBLISHED BY THE U.S. FISH AND WILDLIFE SERVICE IN THE EVENT OF ALL POSSIBLE SIGHTINGS OF THE EASTERN INDIGO SNAKE WITHIN THE PROJECT LIMITS.

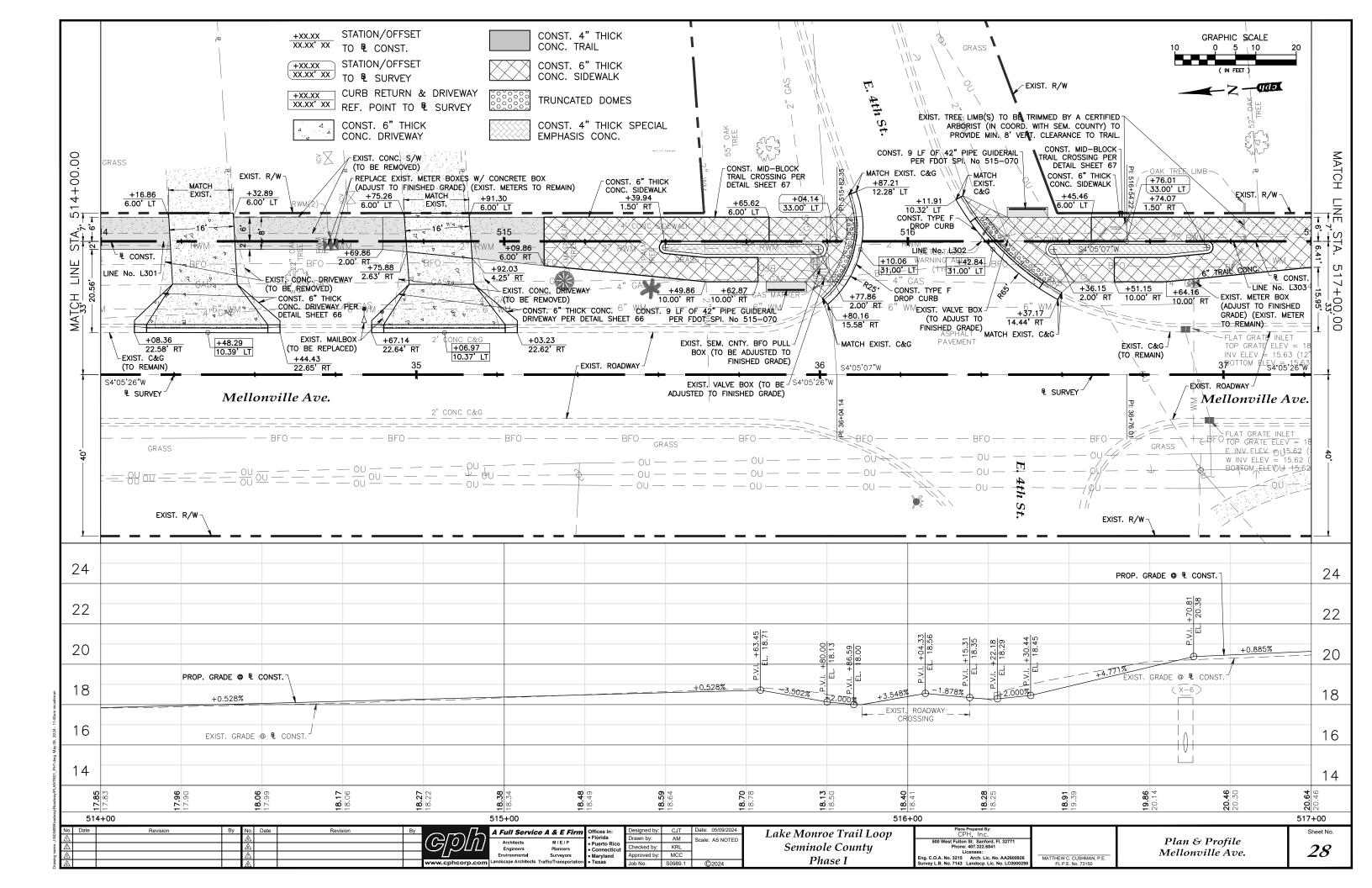


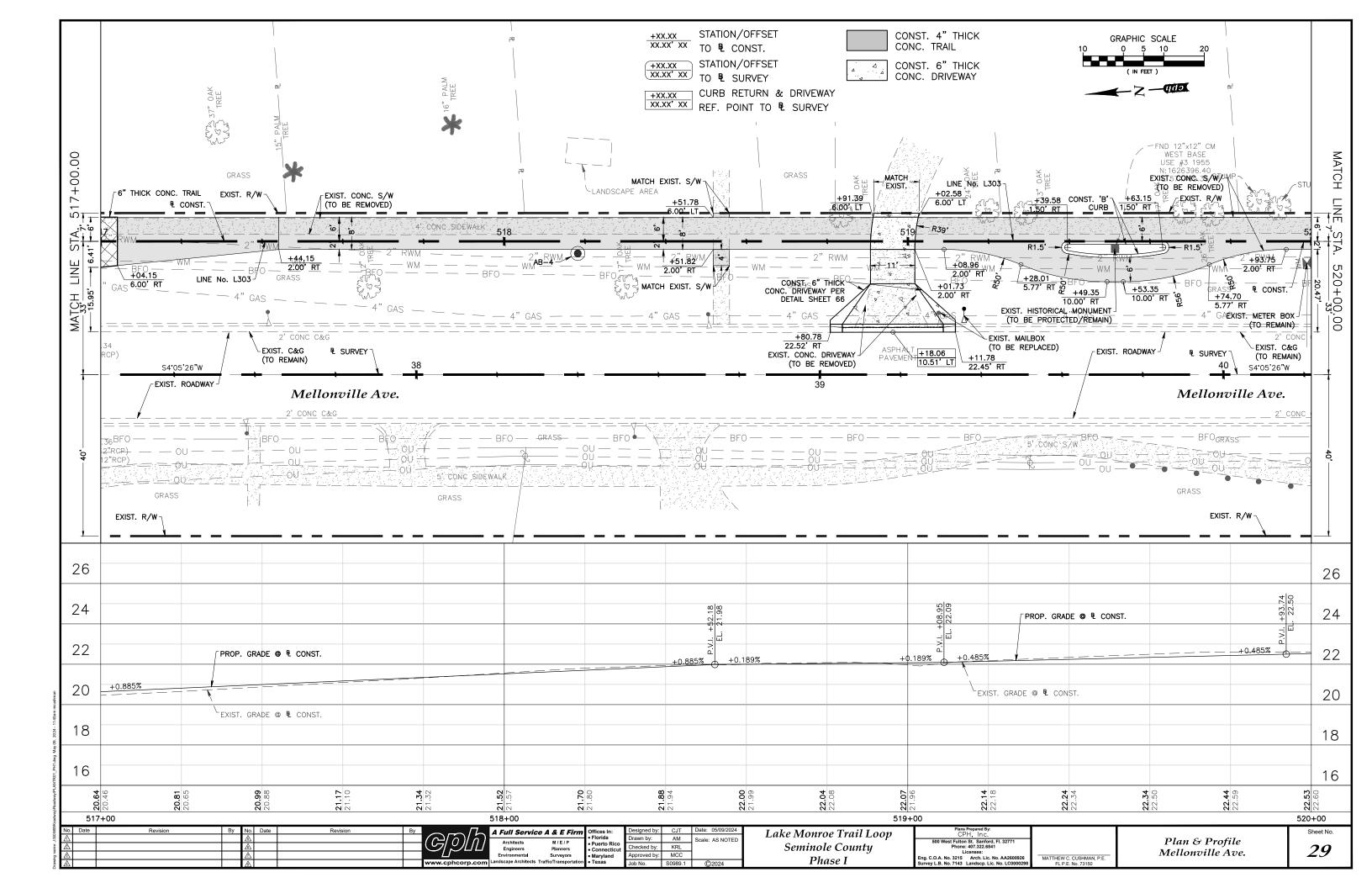


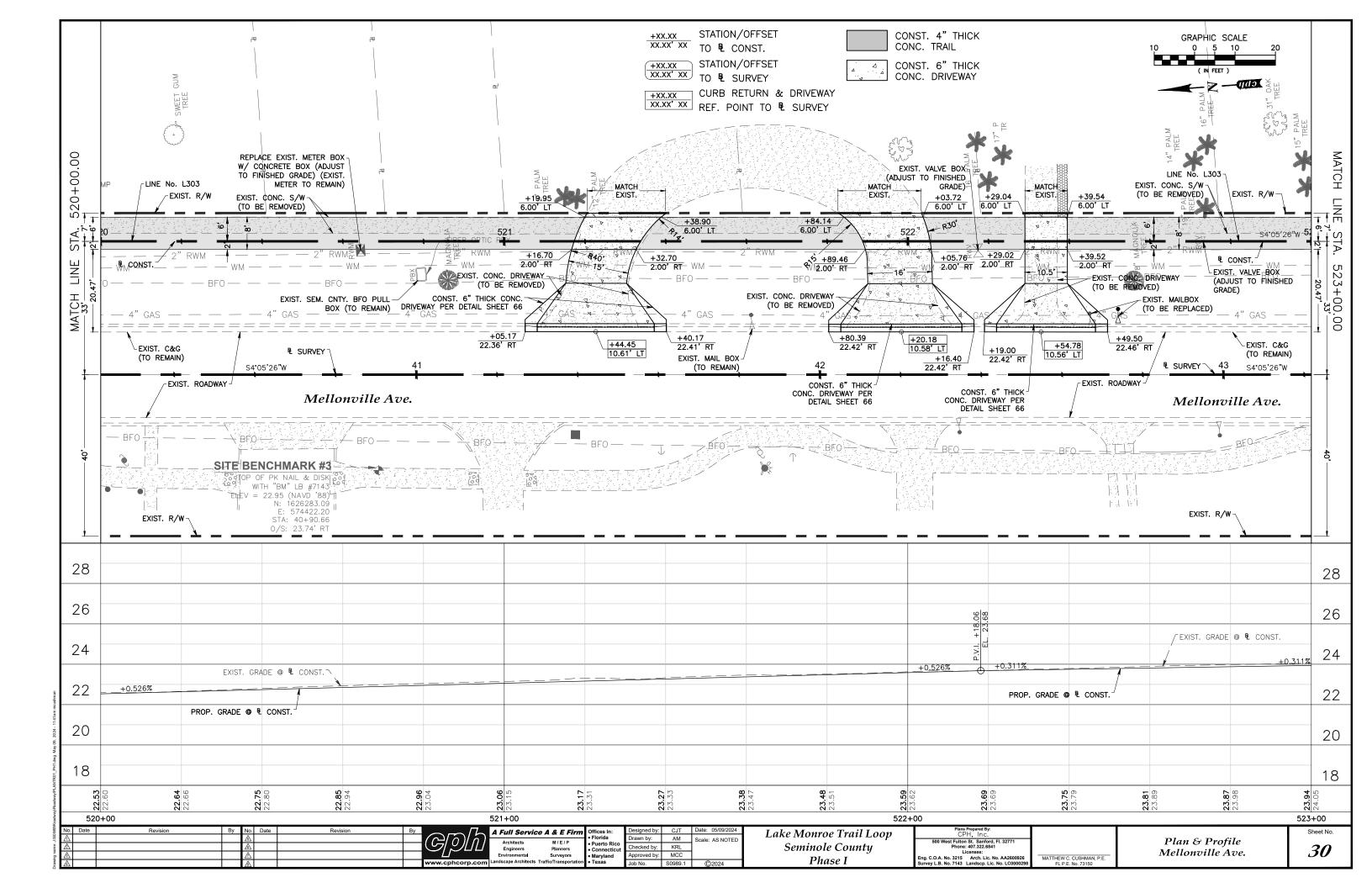


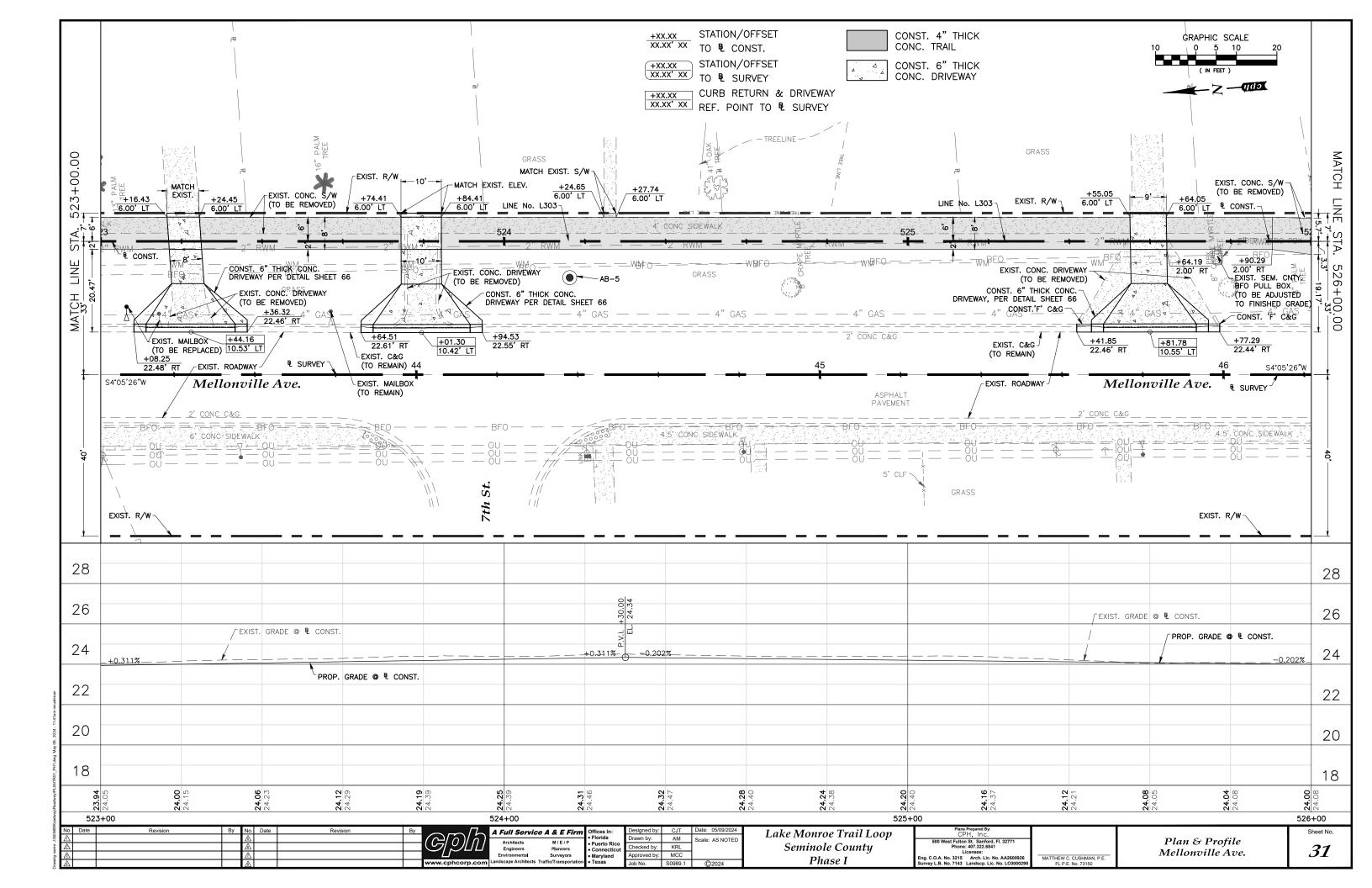


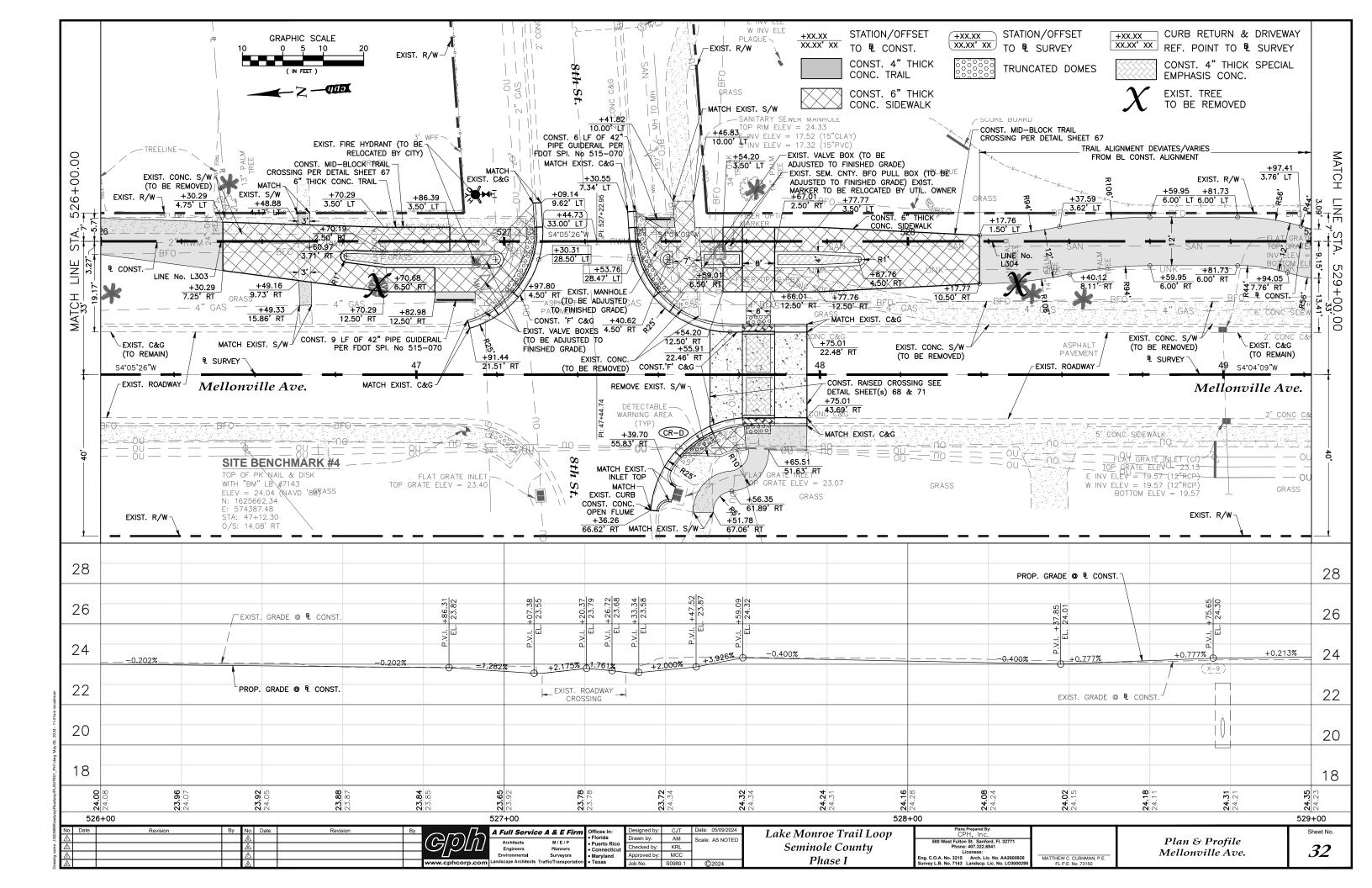


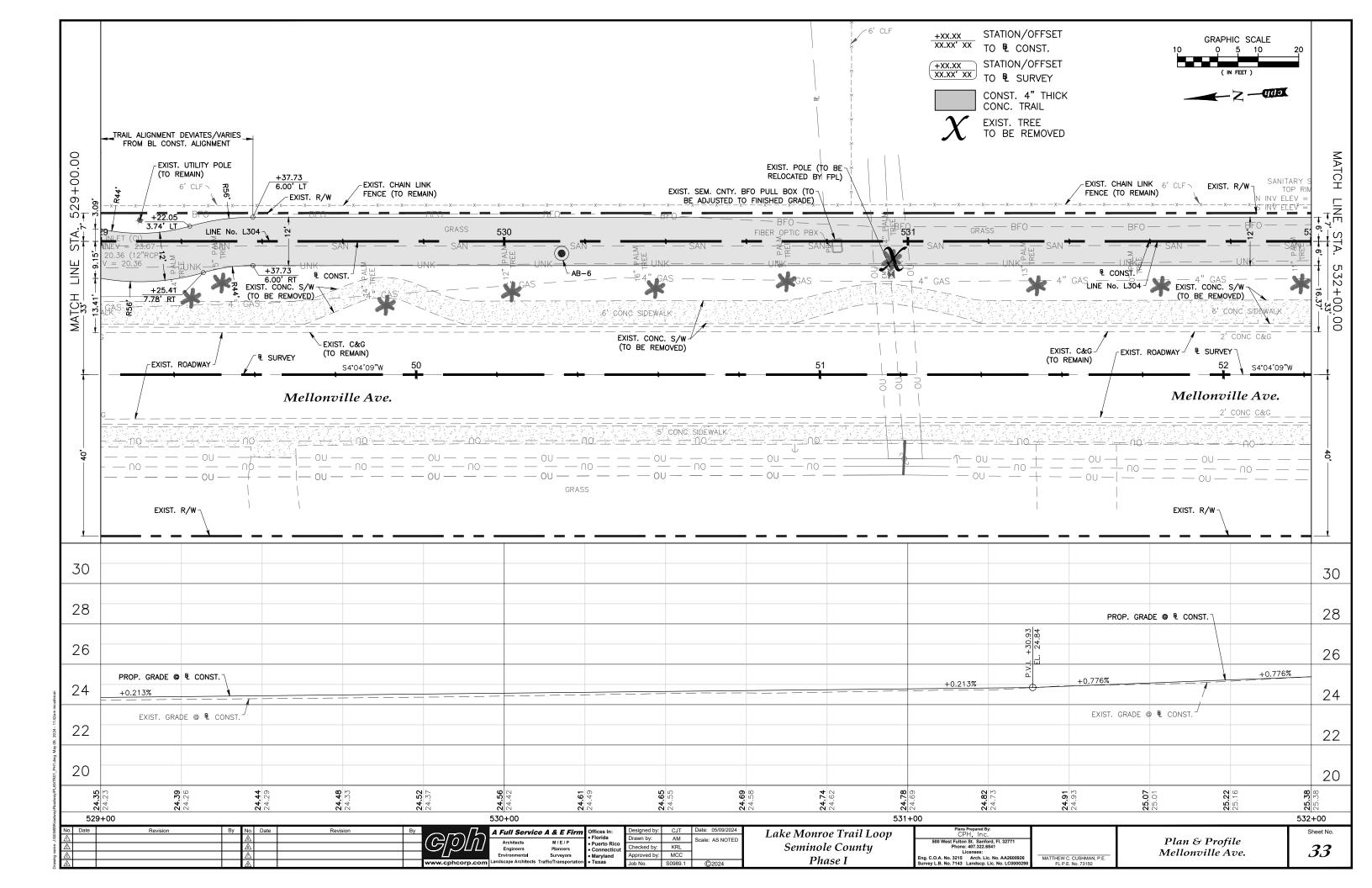


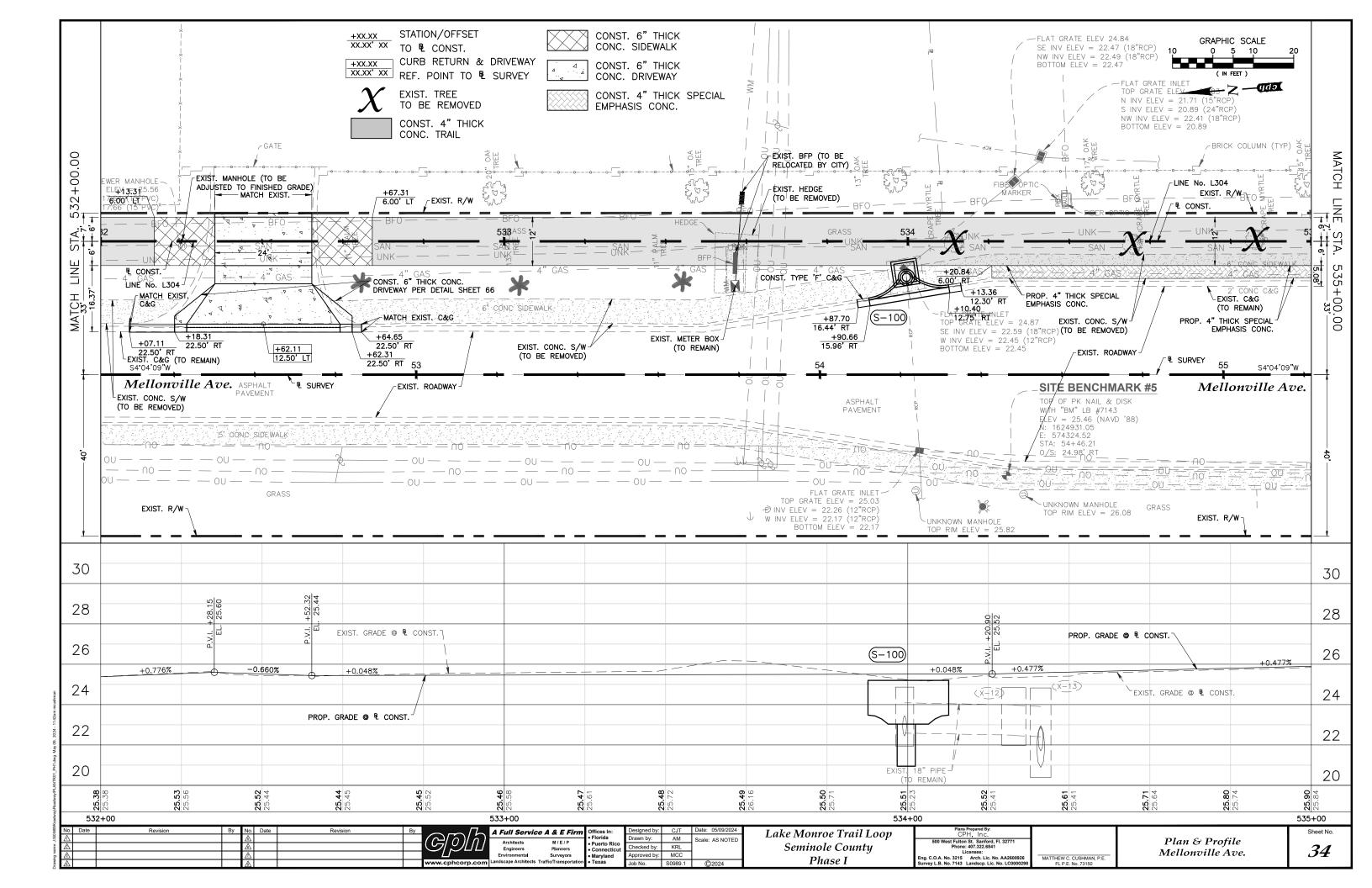


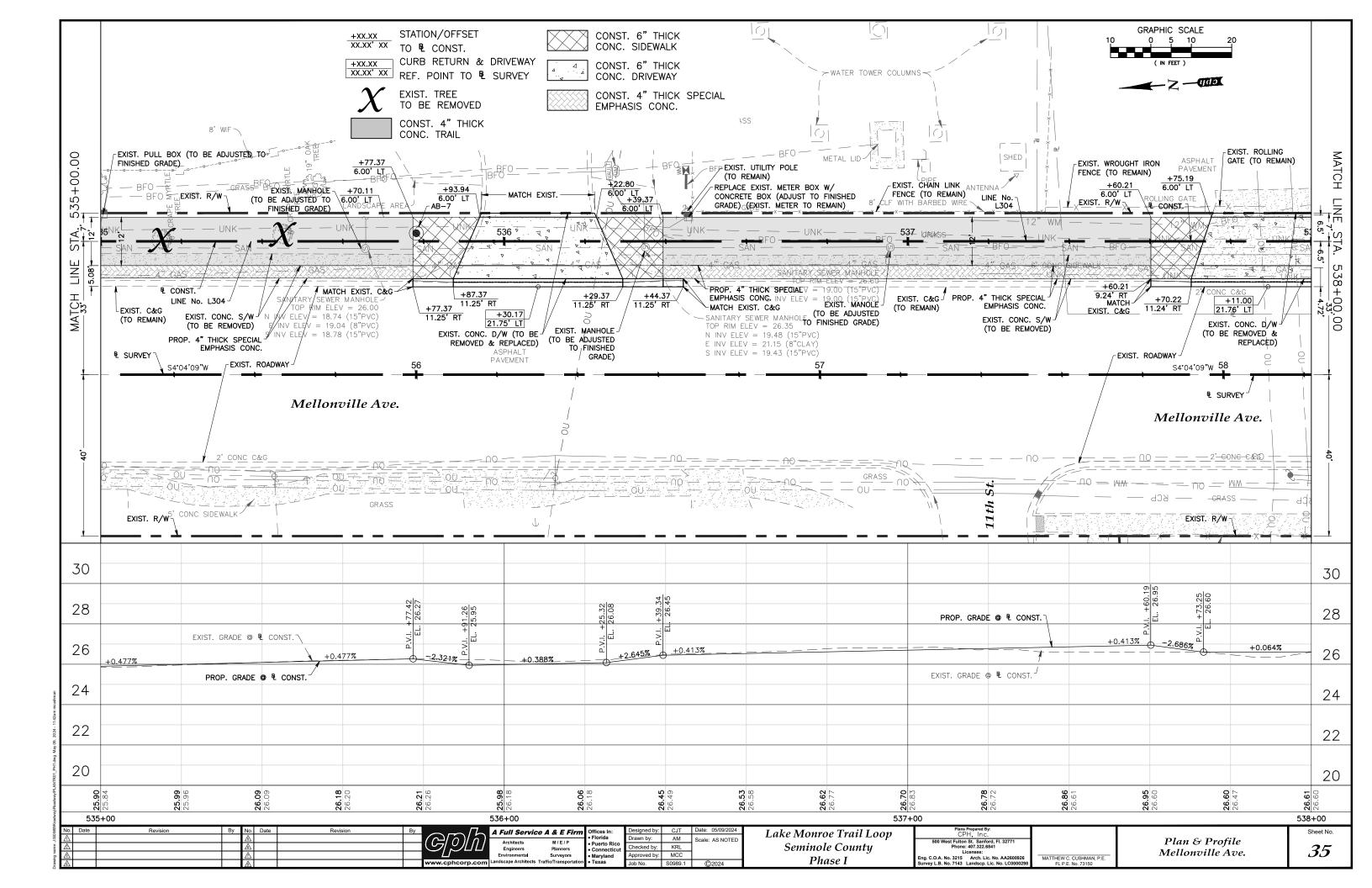


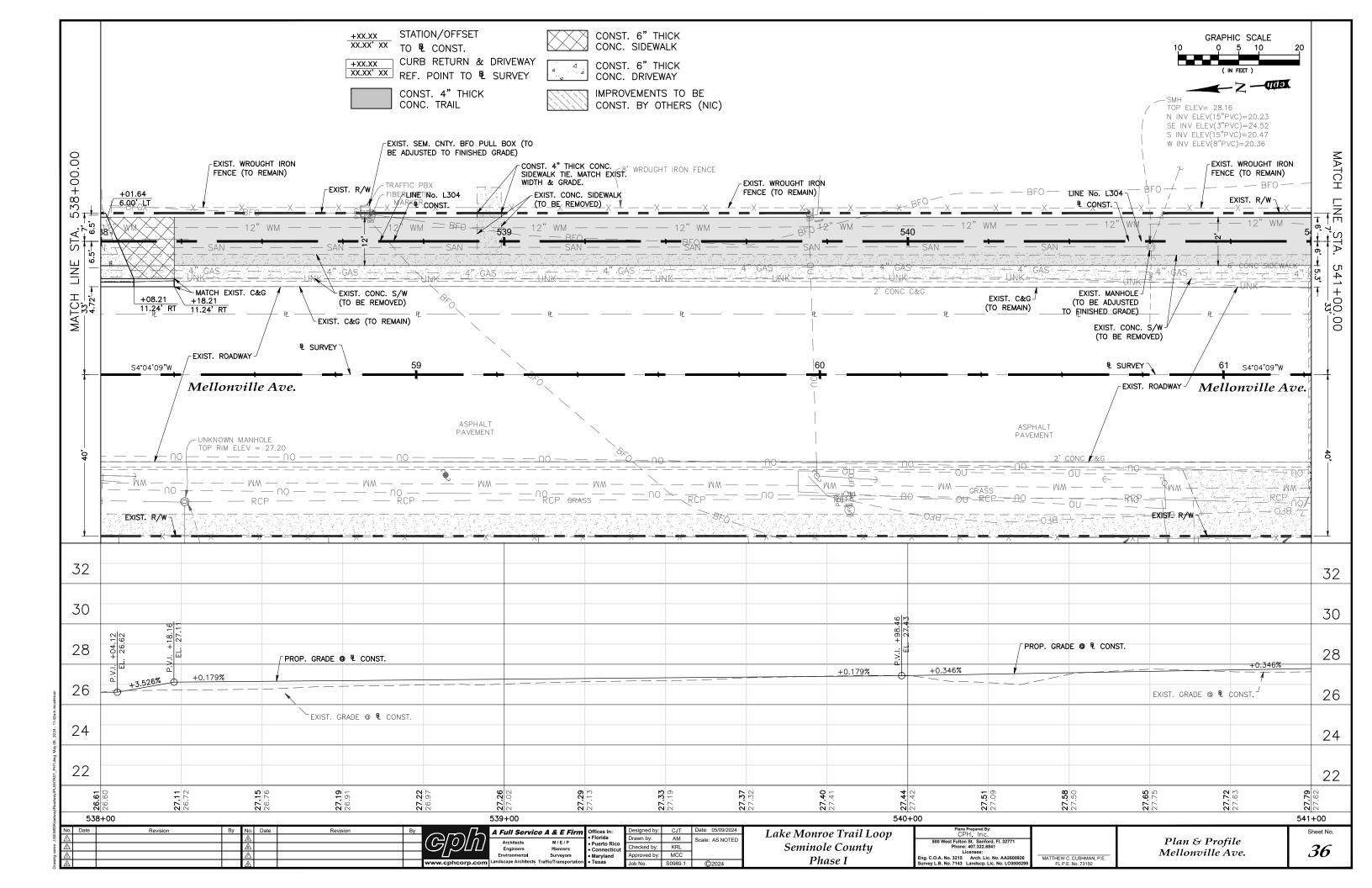


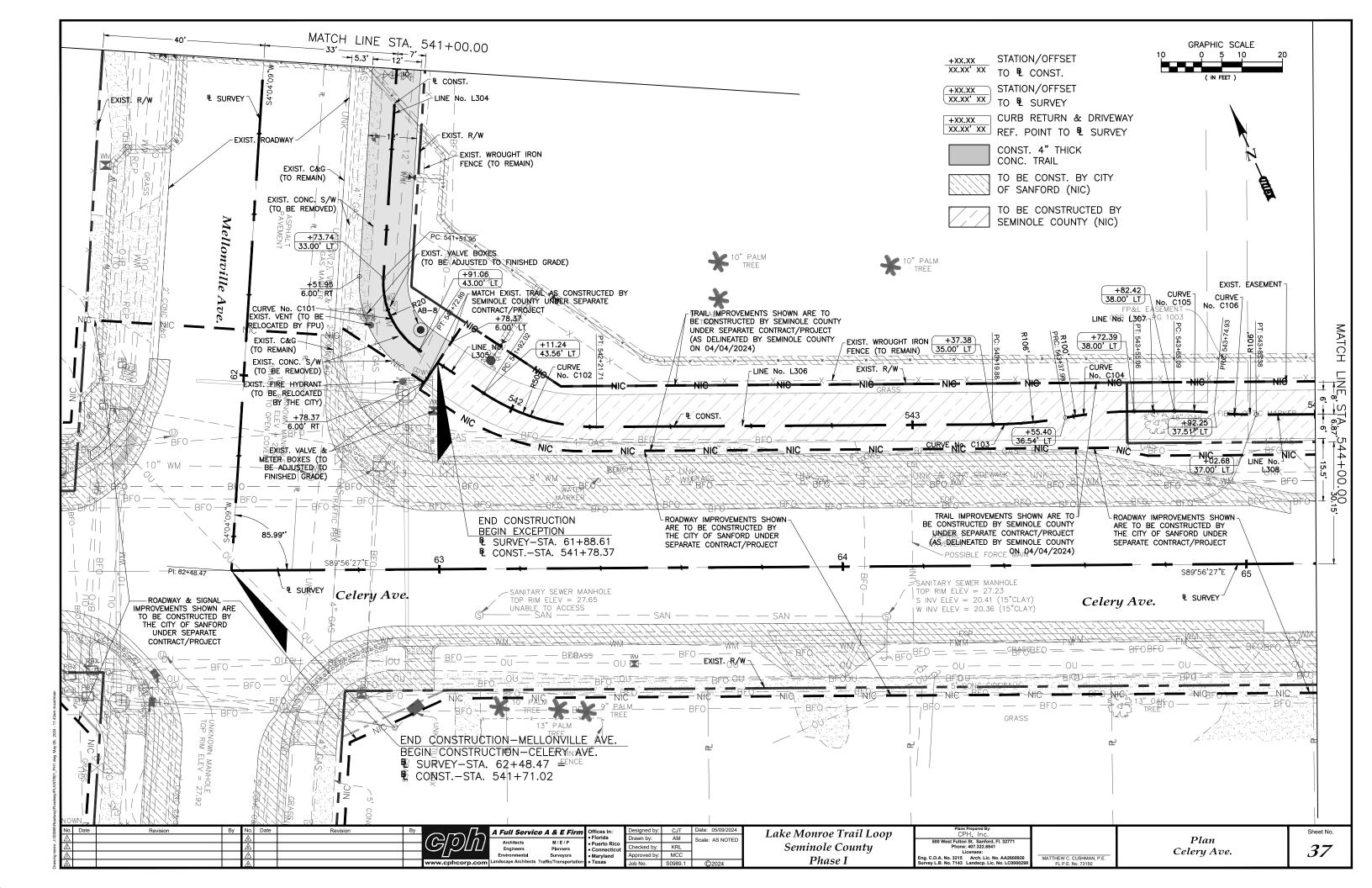


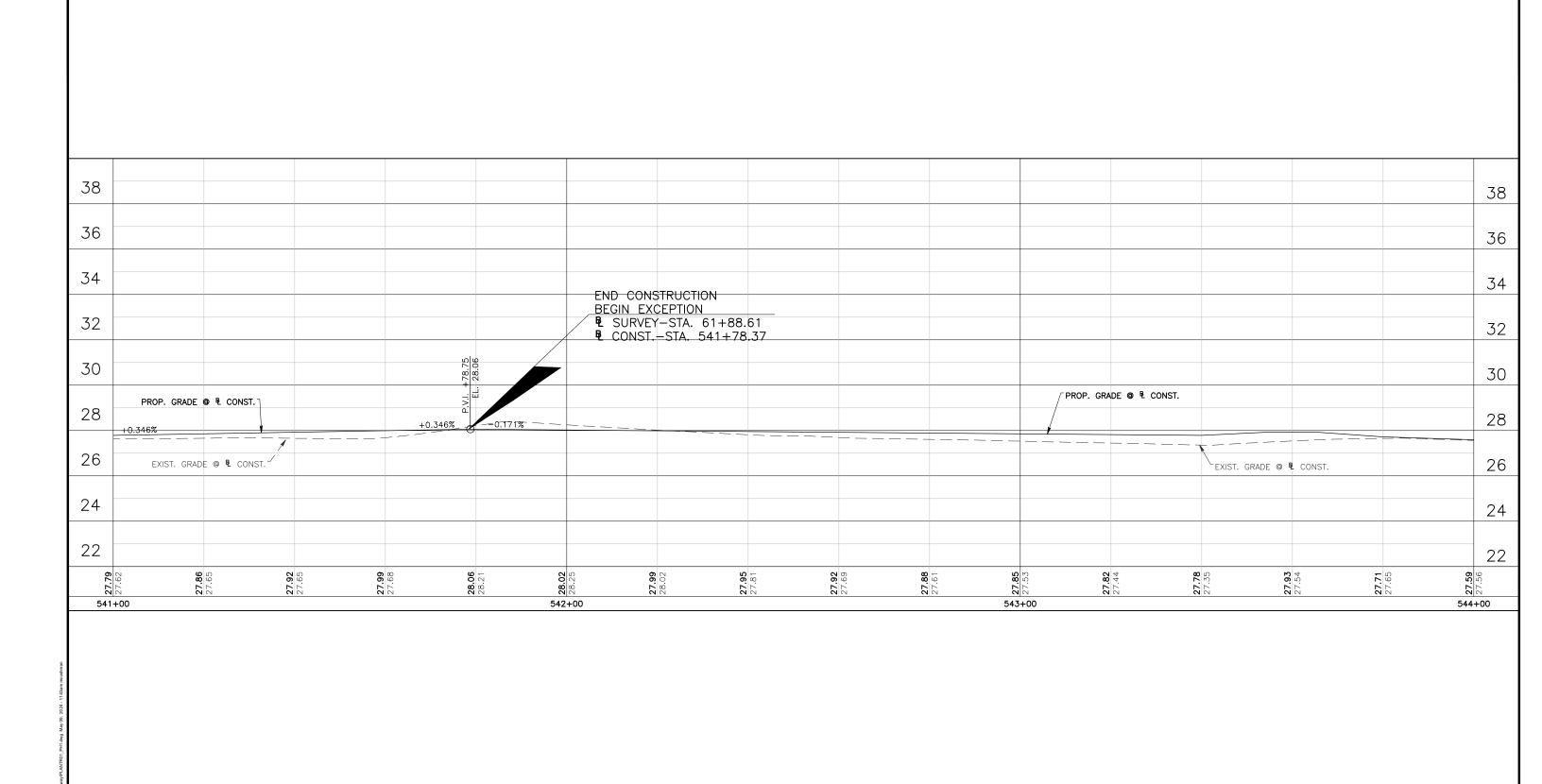












Designed by: CJT Date: 05/09/2024

Drawn by: AM Scale: AS NOTED

Checked by: KRL
Approved by: MCC

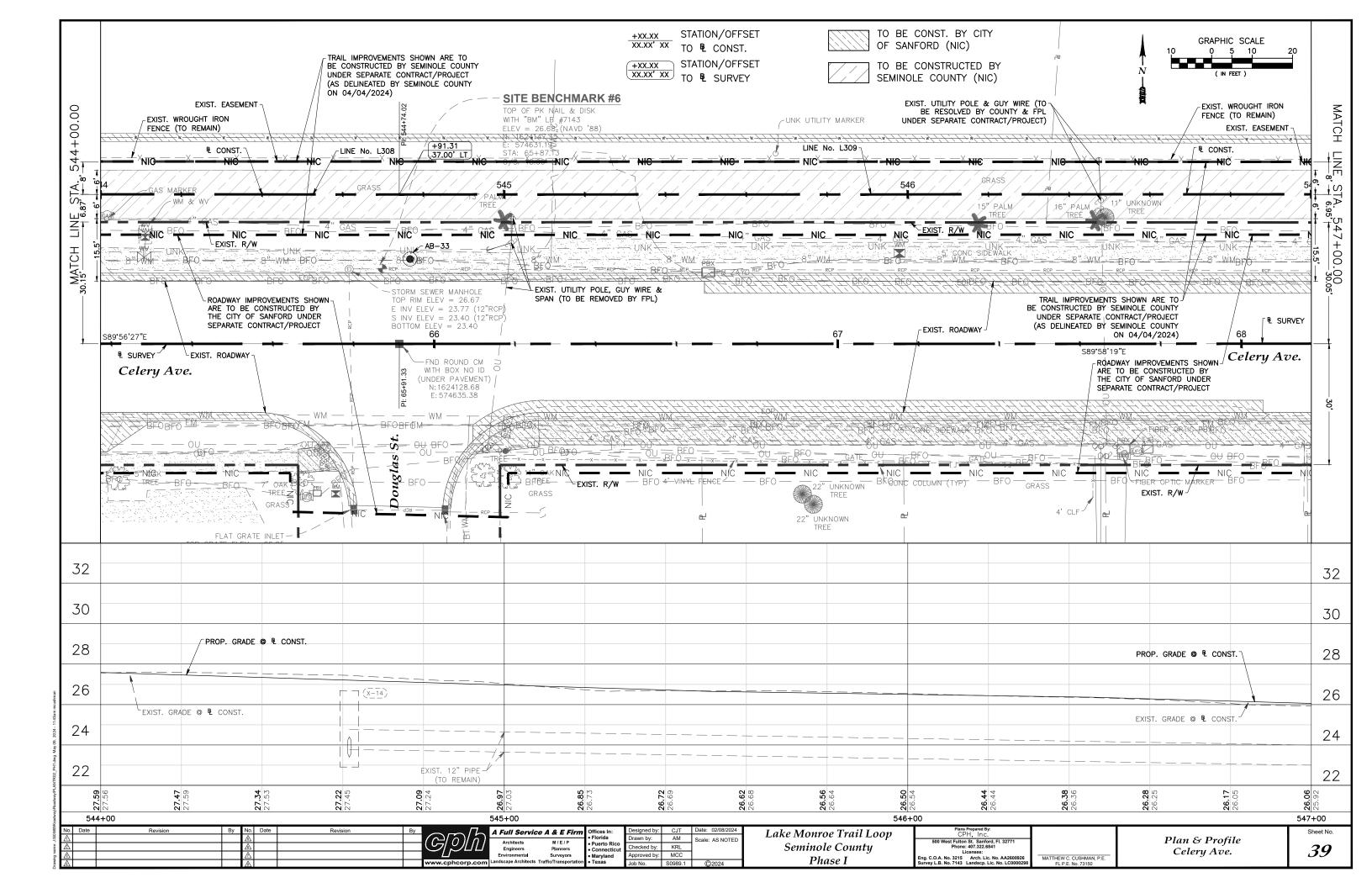
M / E / P Planners Surveyors ffic/Transport Profile Celery Ave.

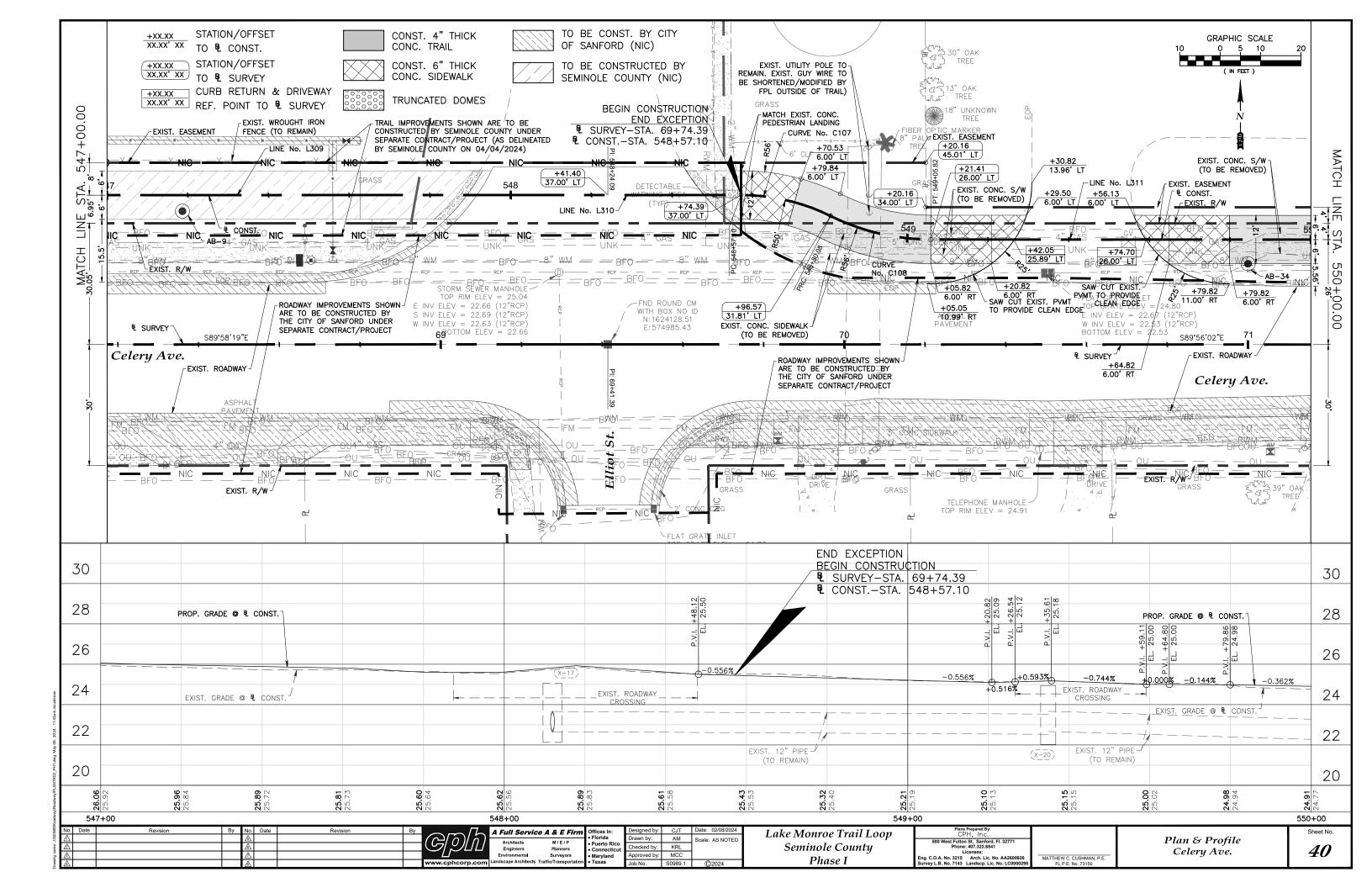
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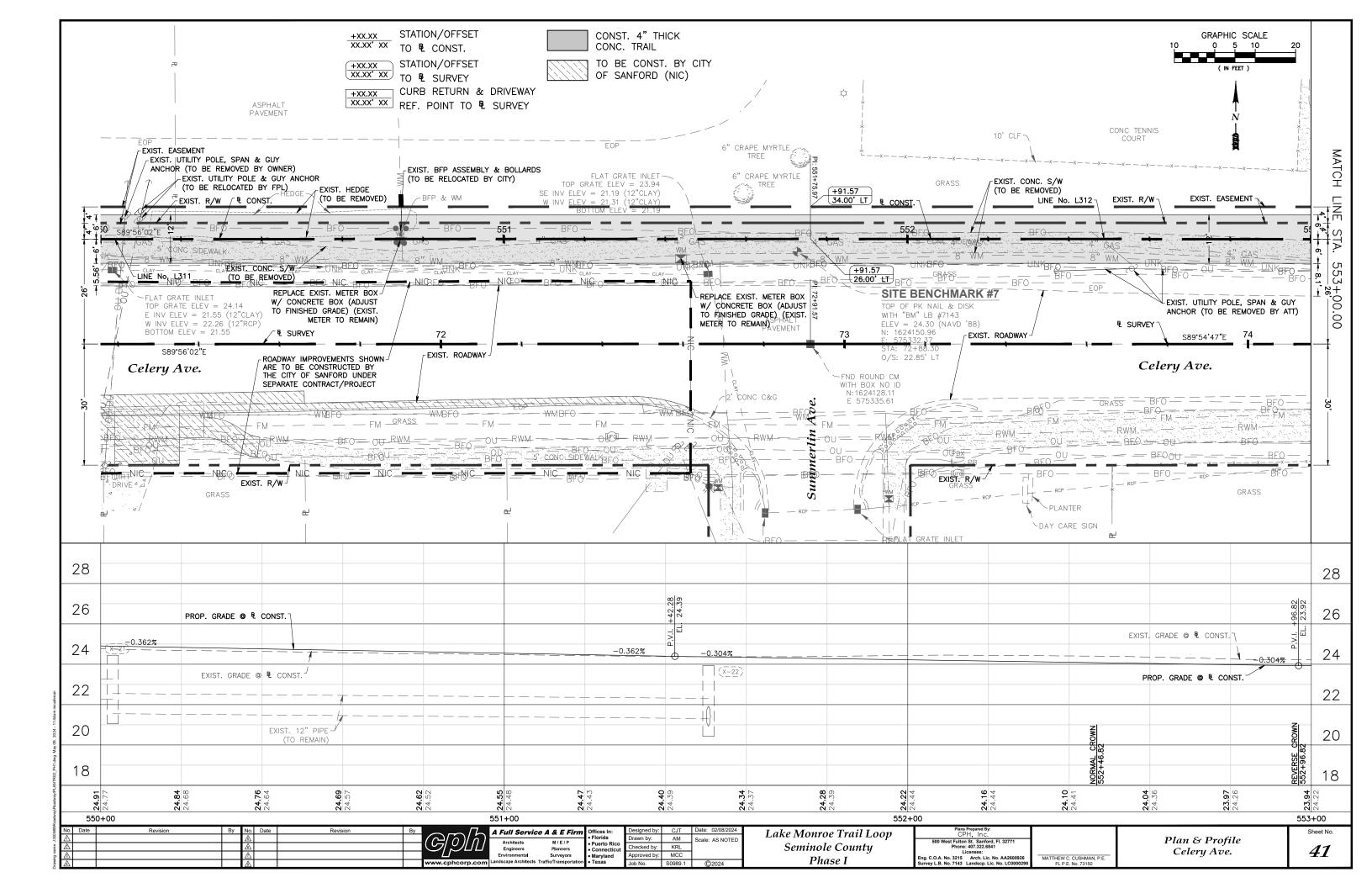
Lake Monroe Trail Loop

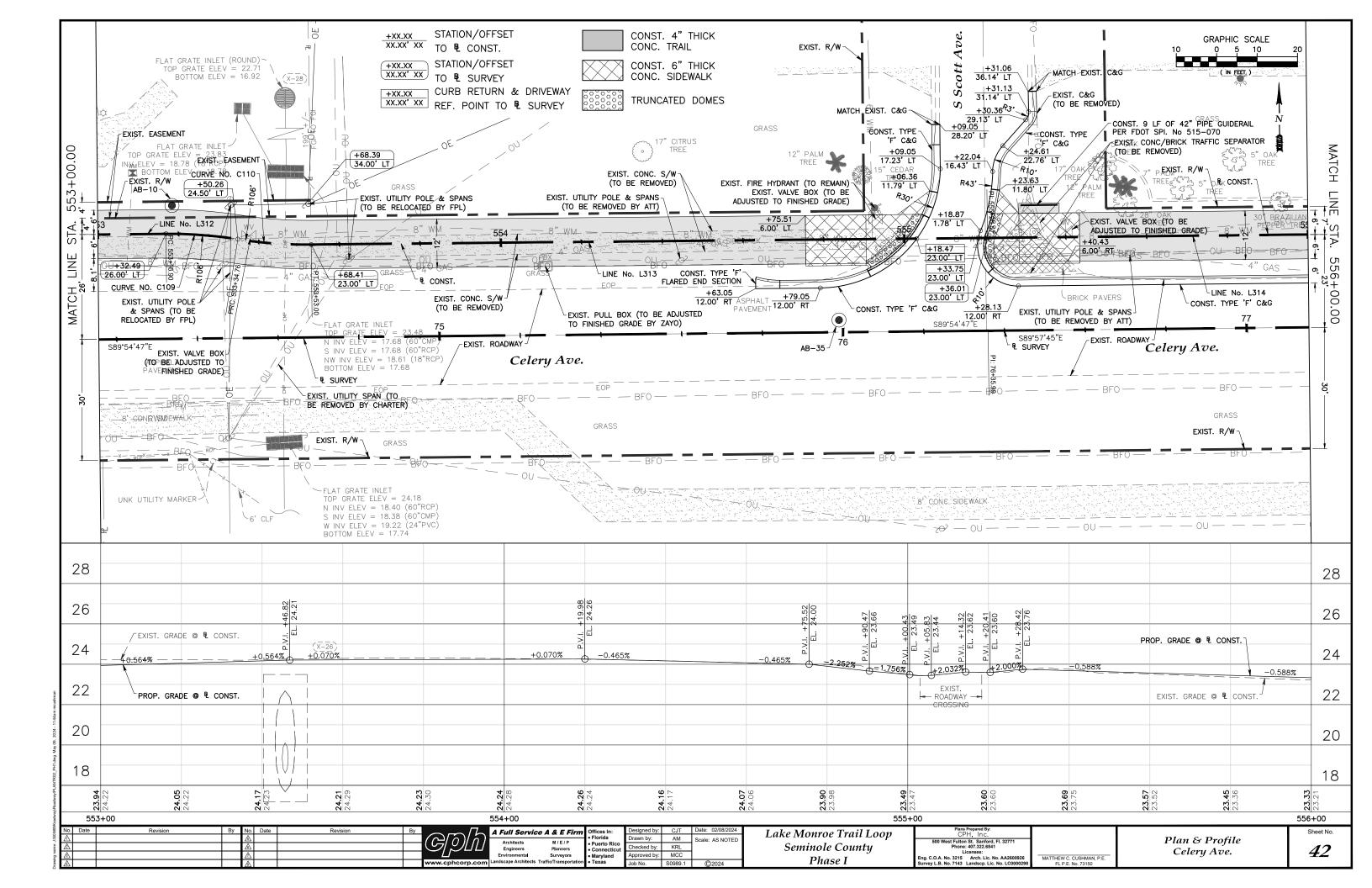
Seminole County

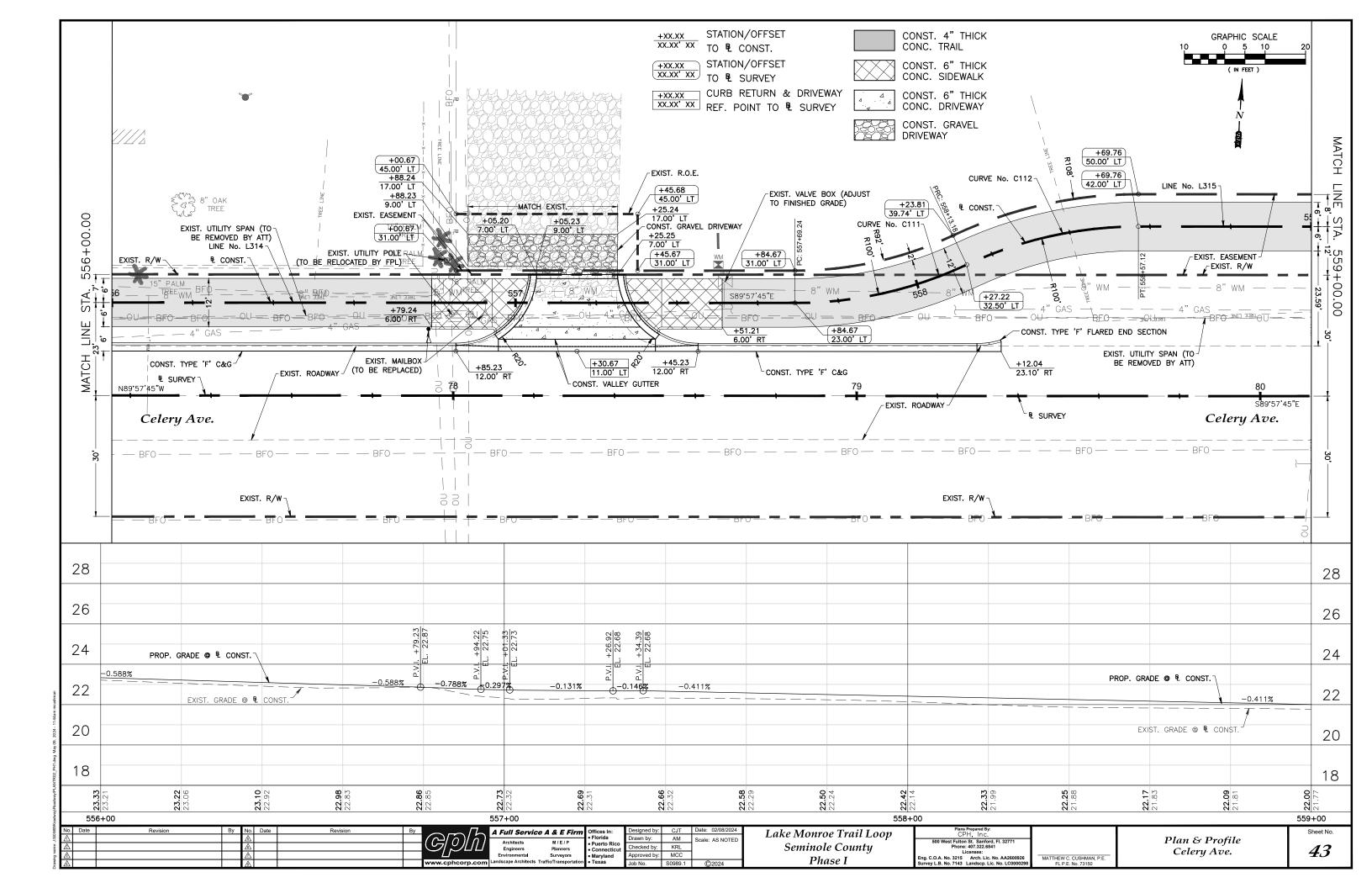
Phase I

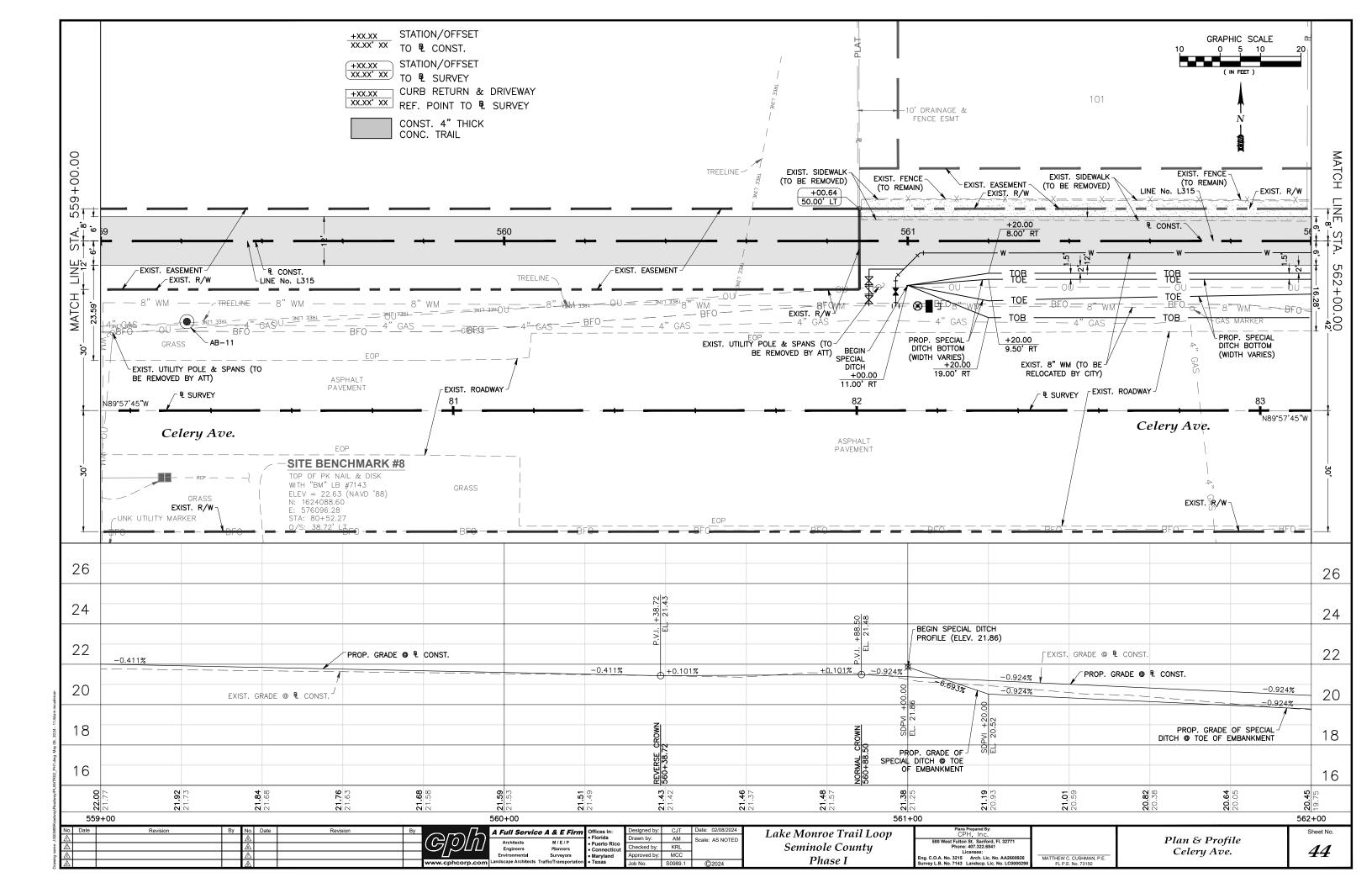


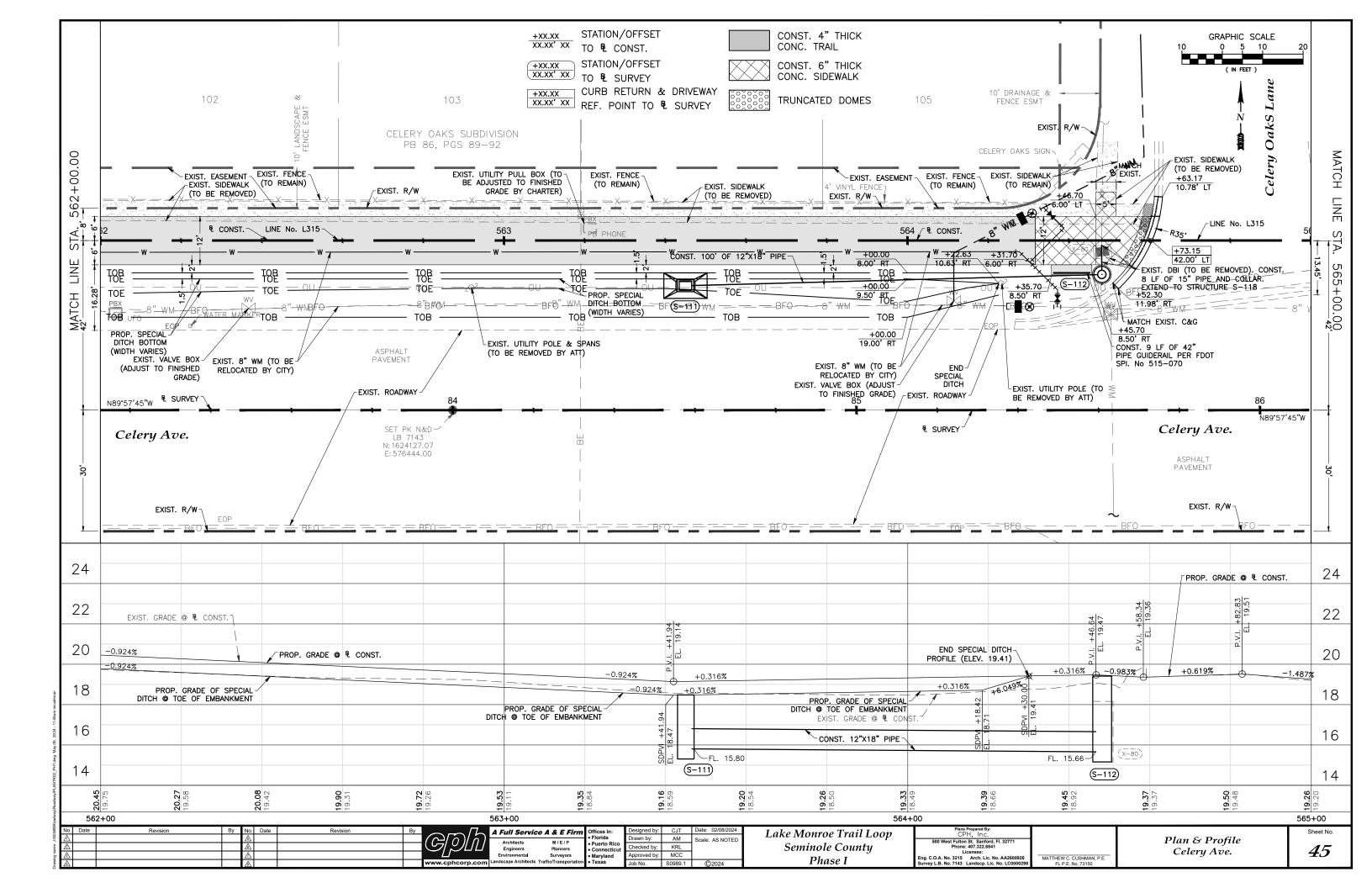


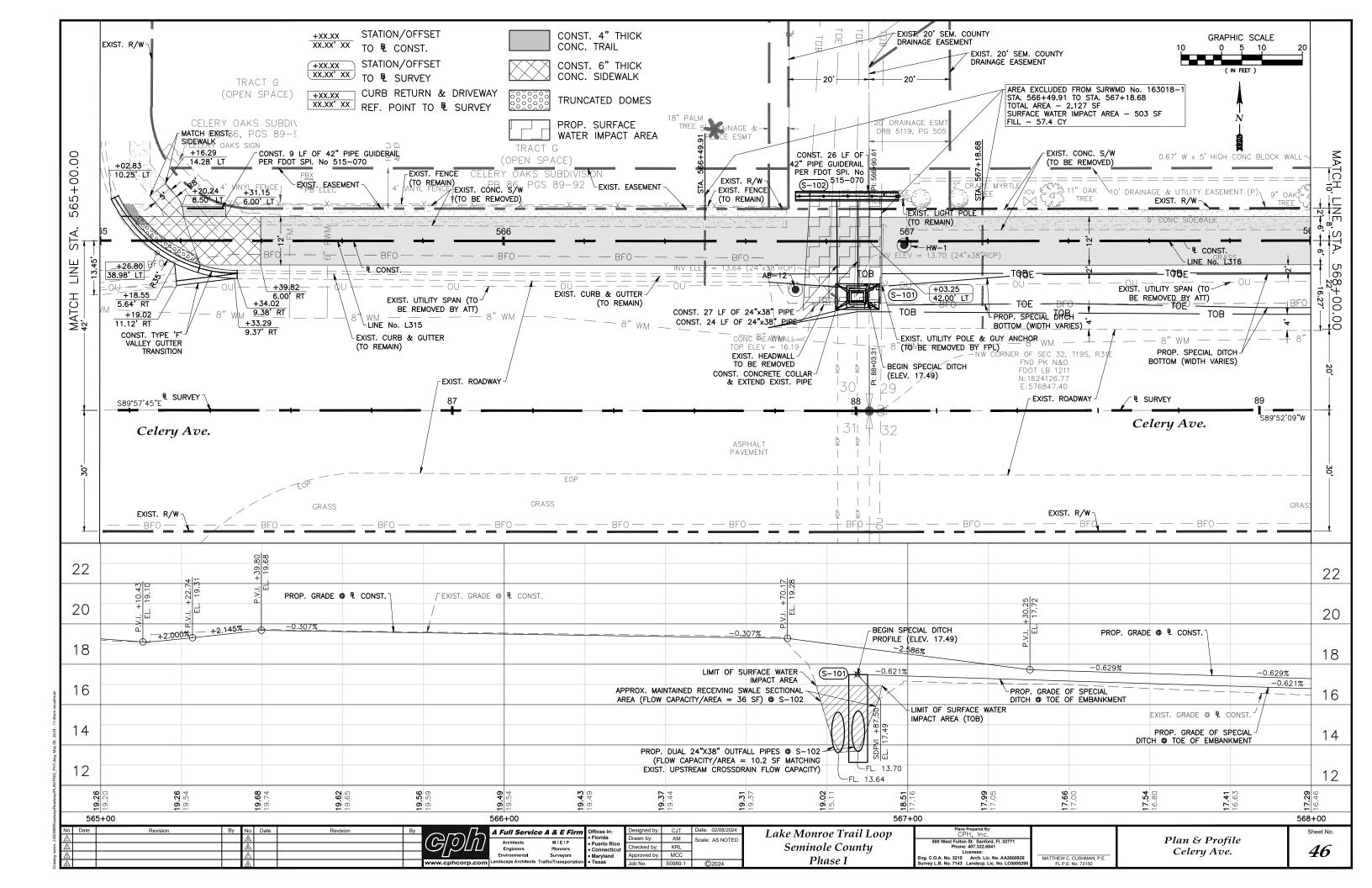


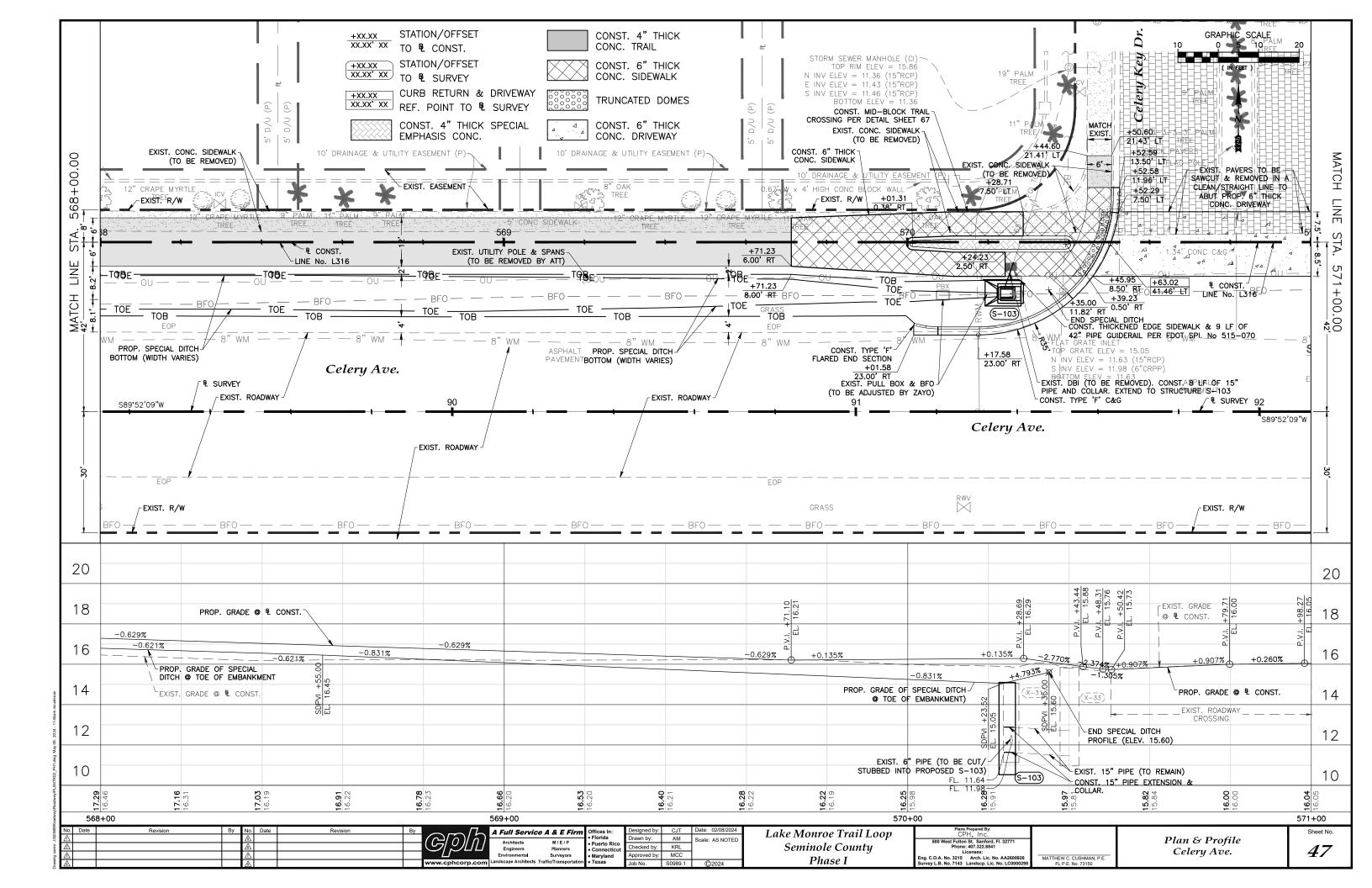


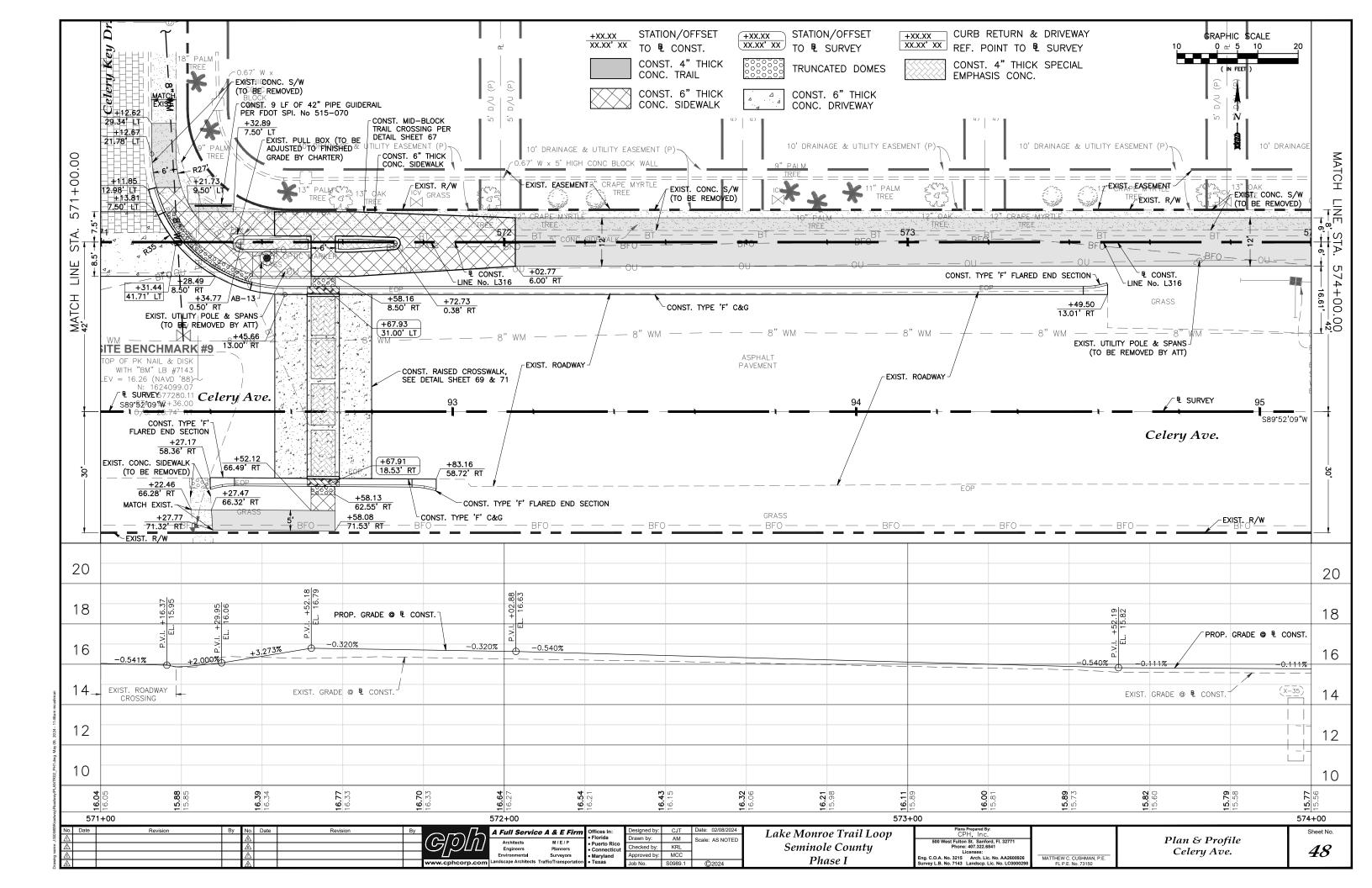


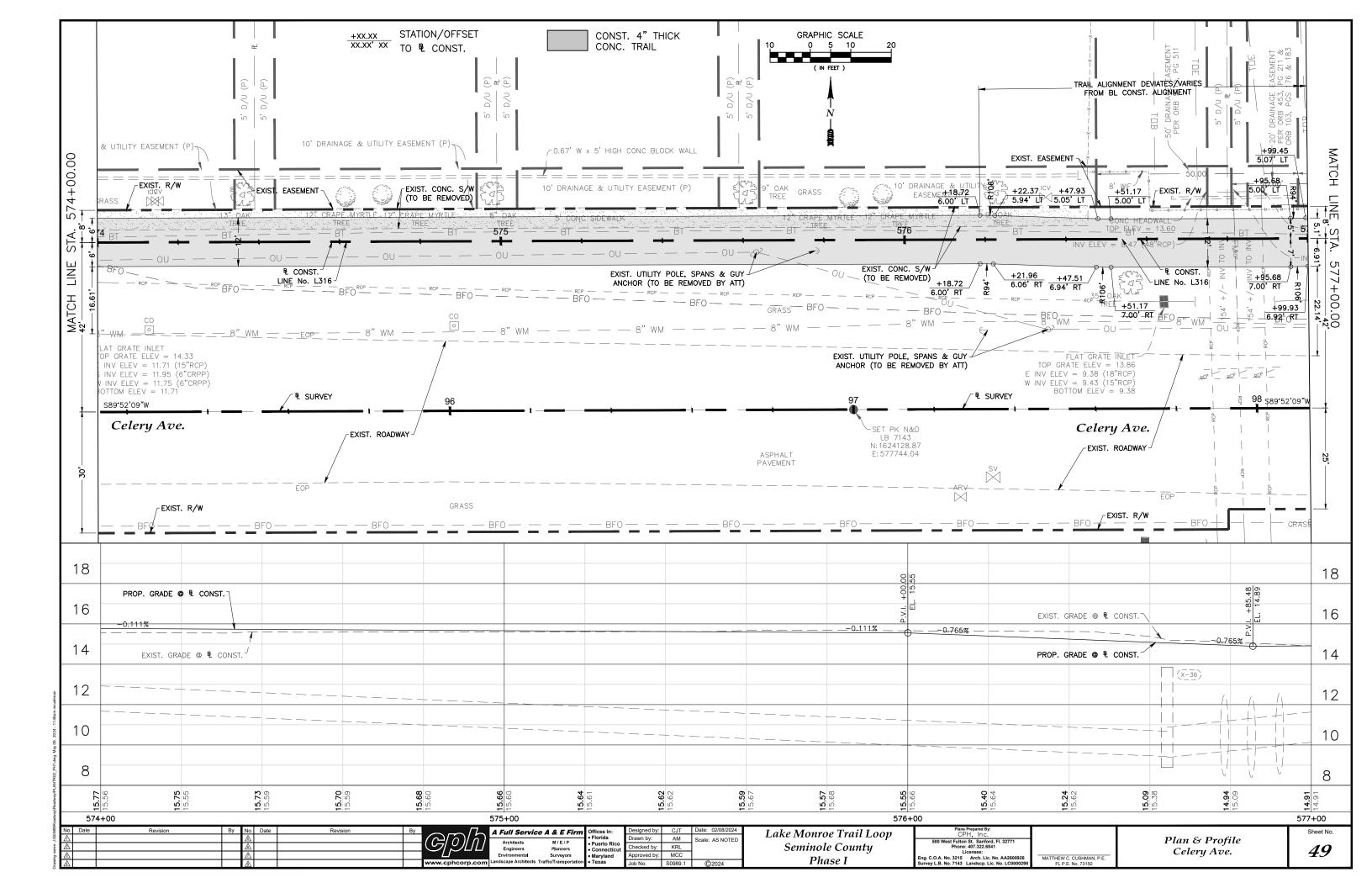


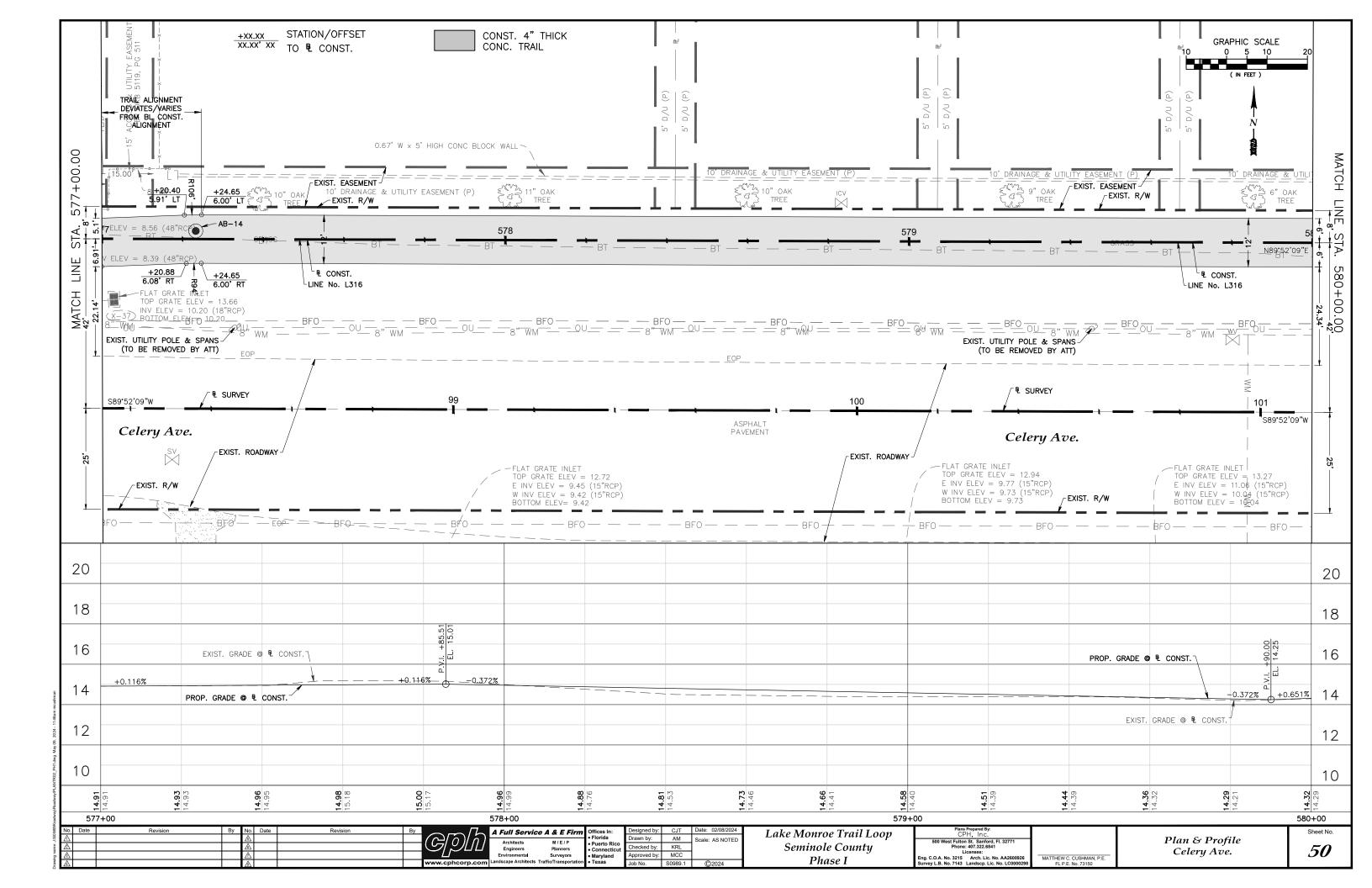


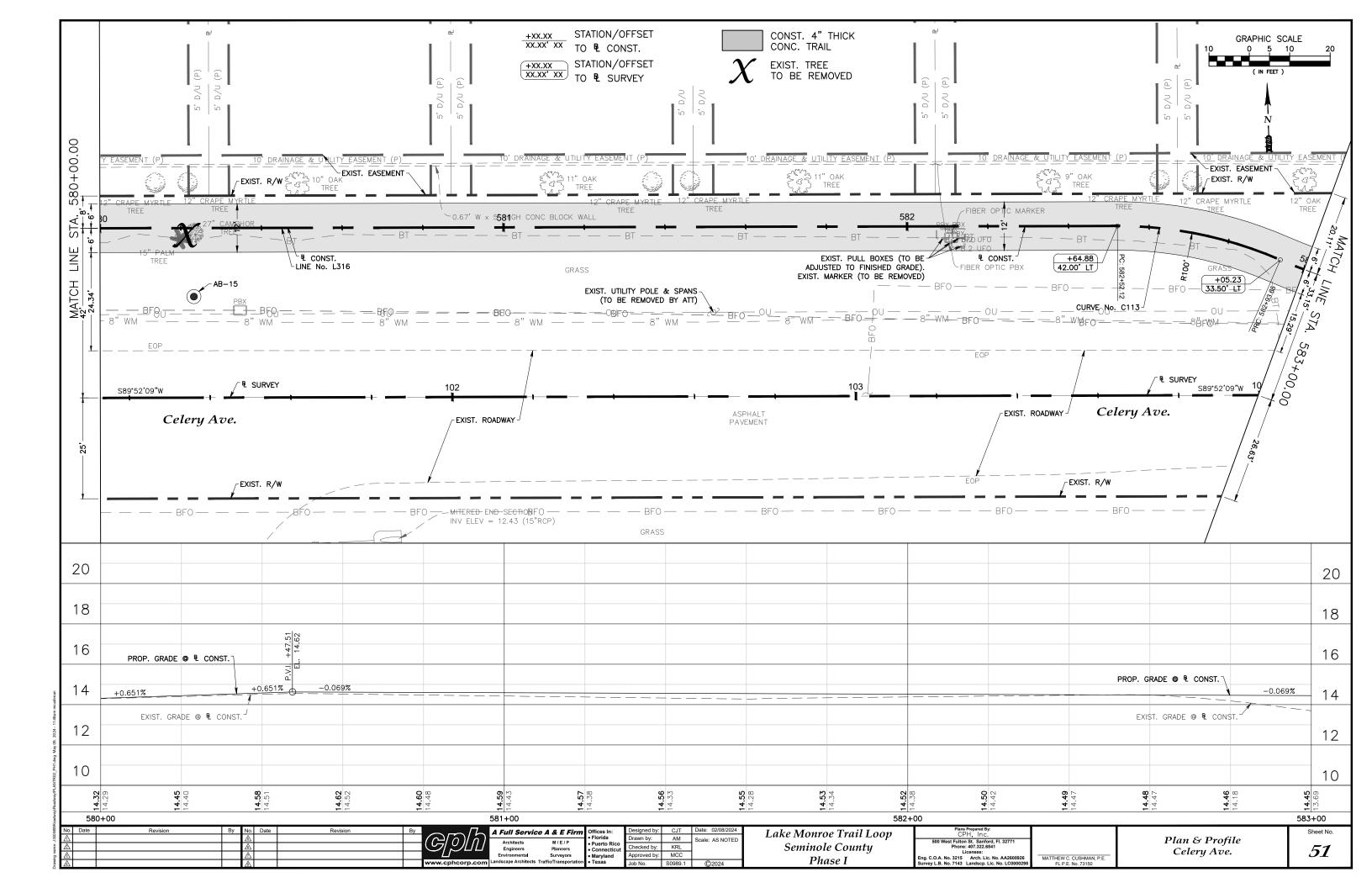


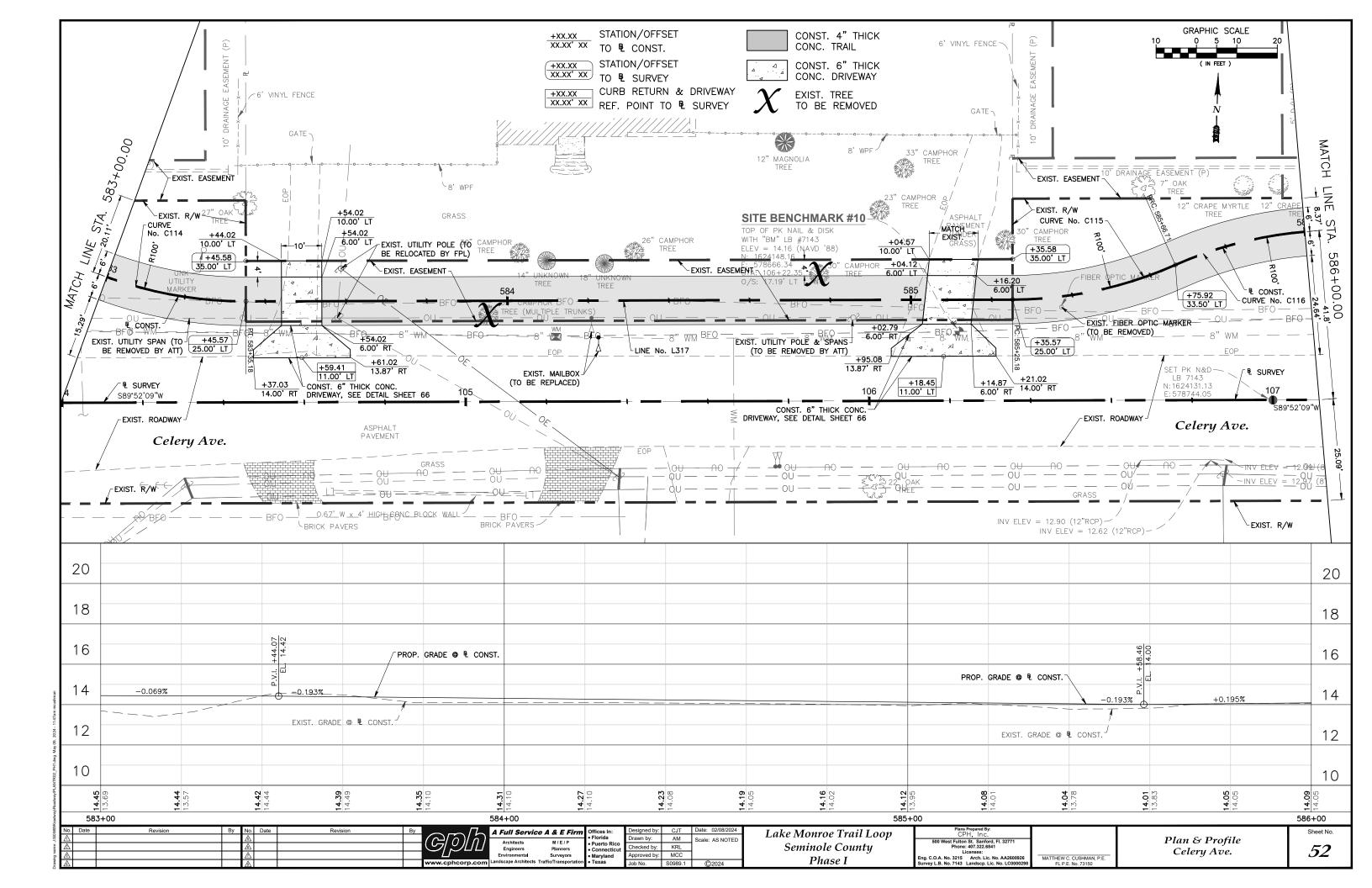


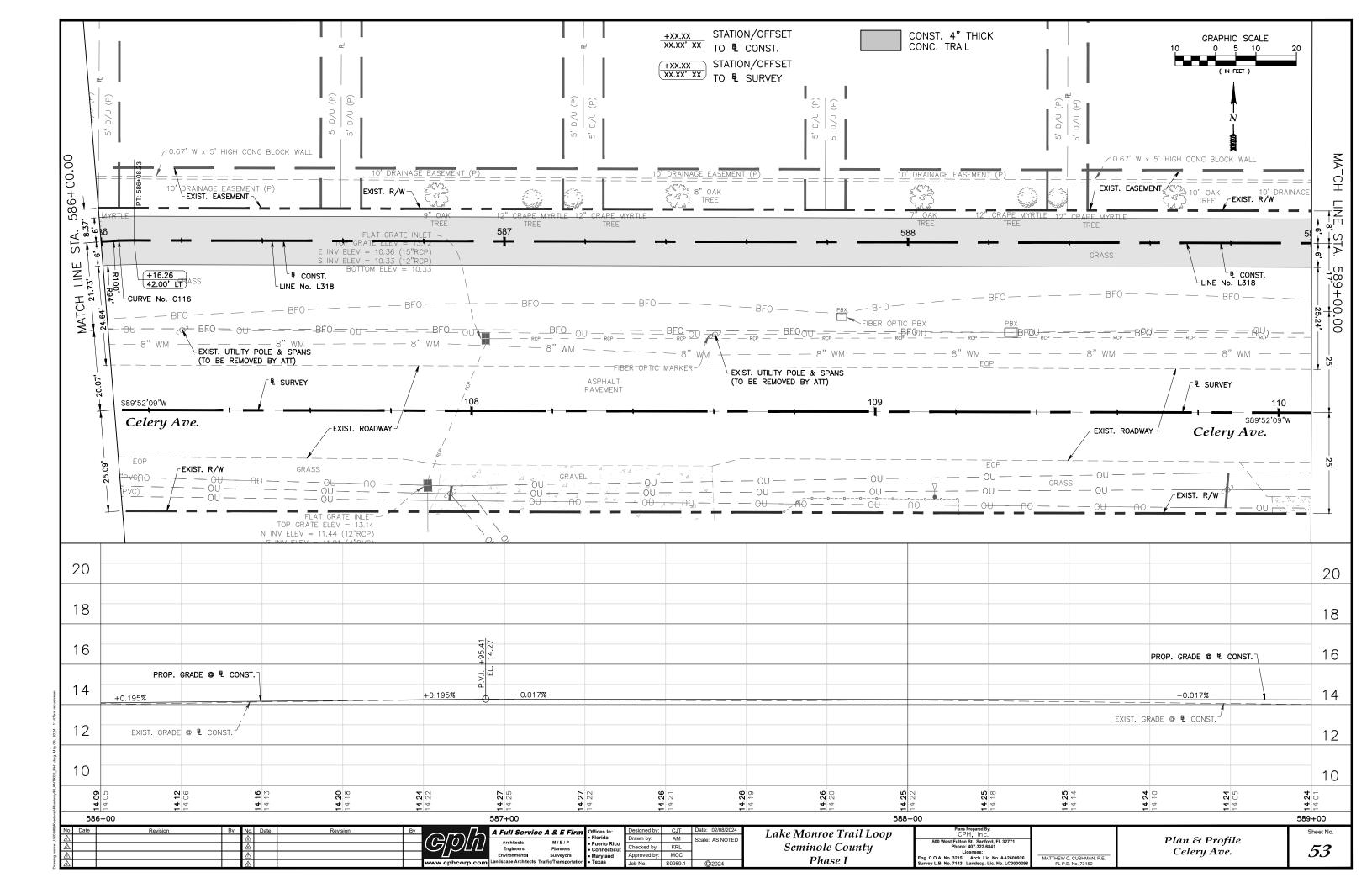


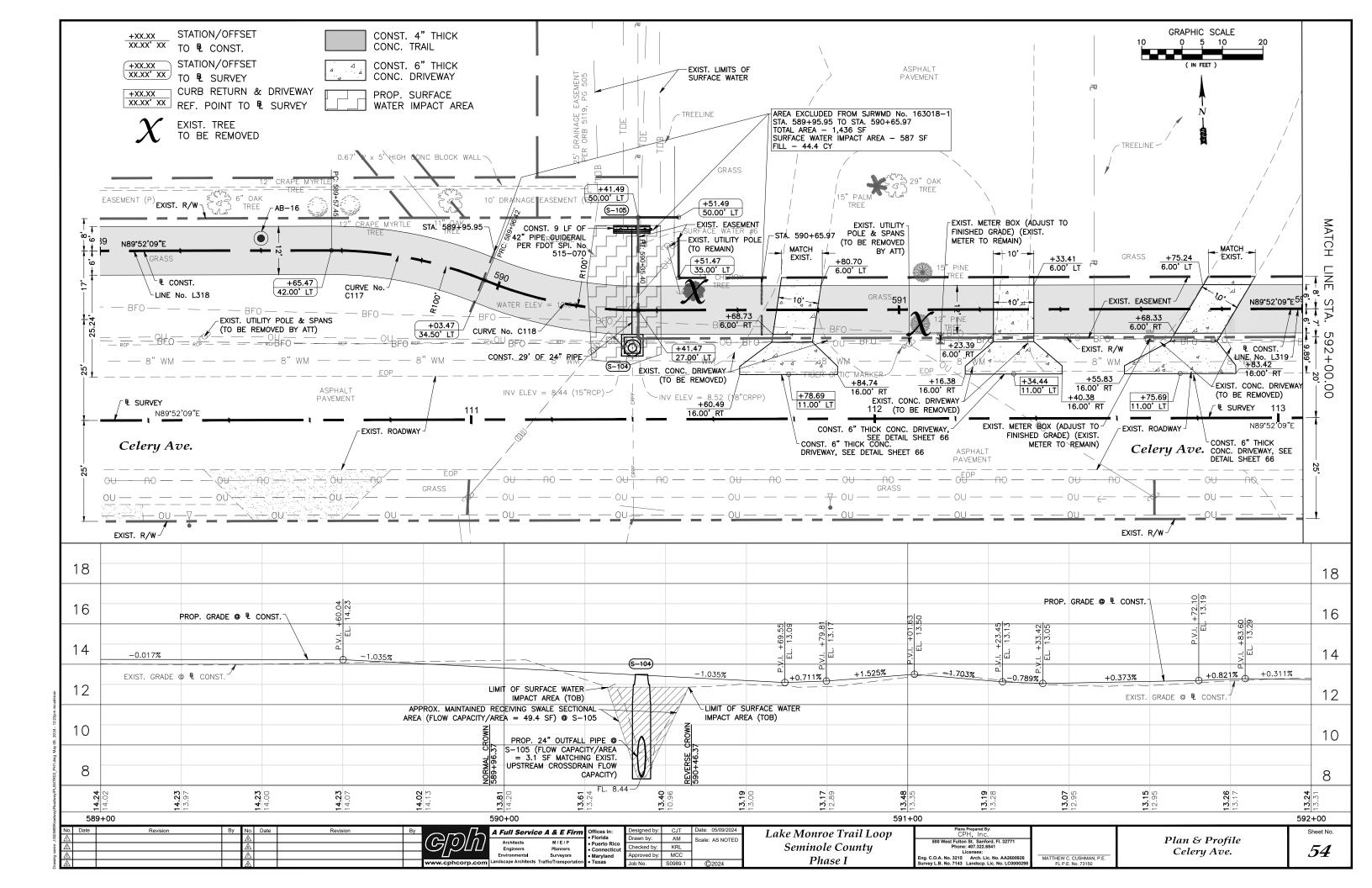


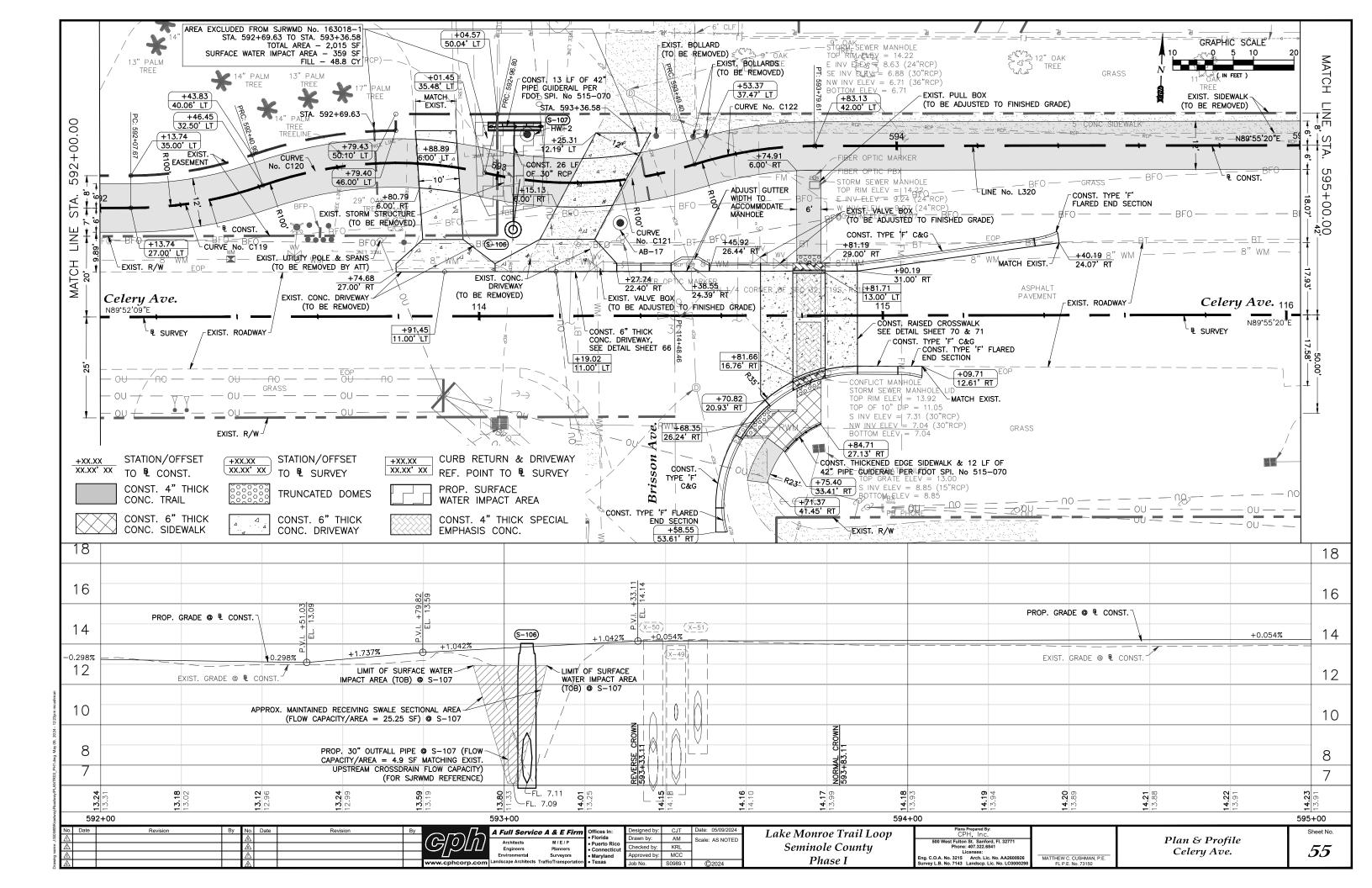


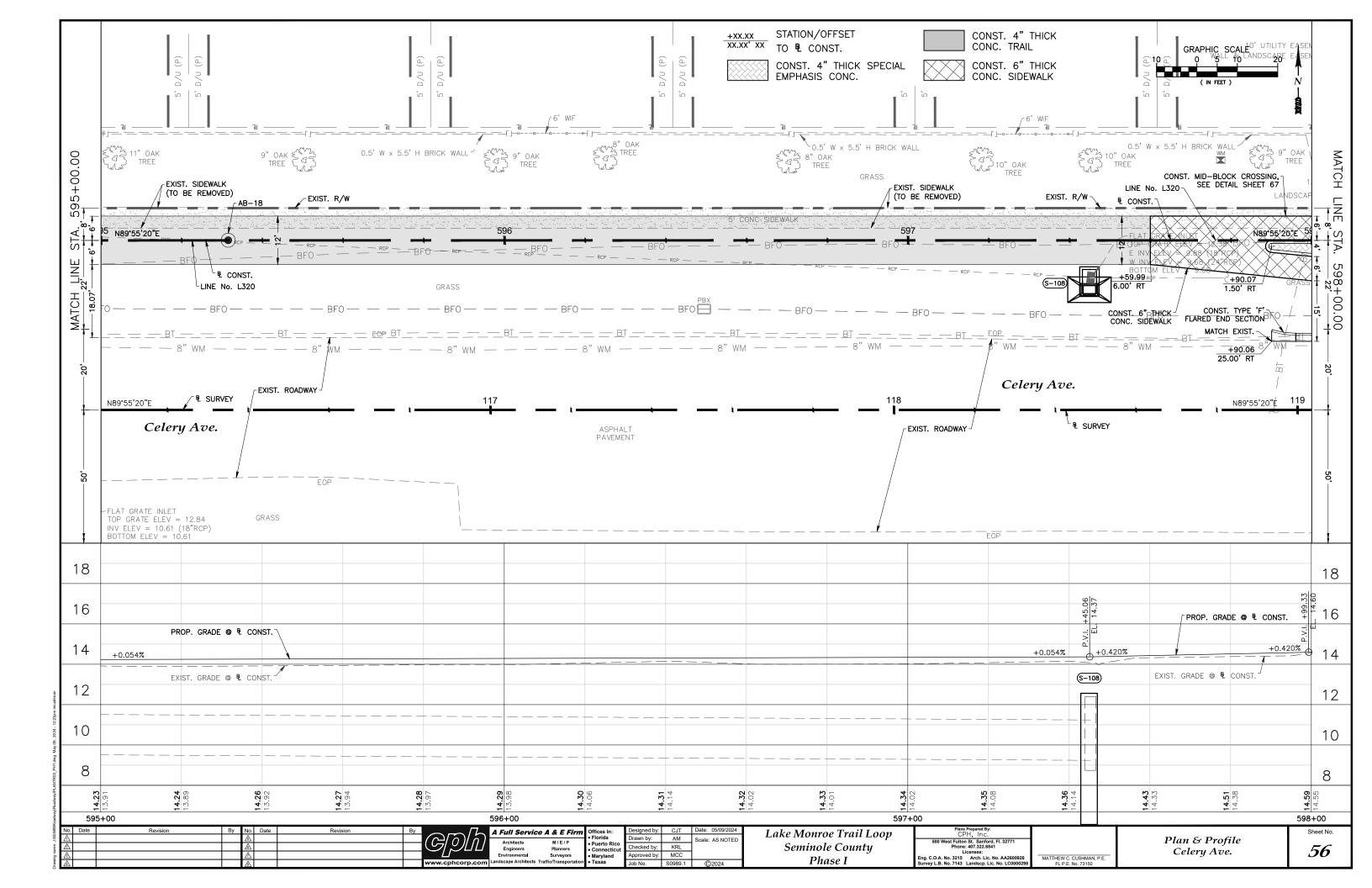


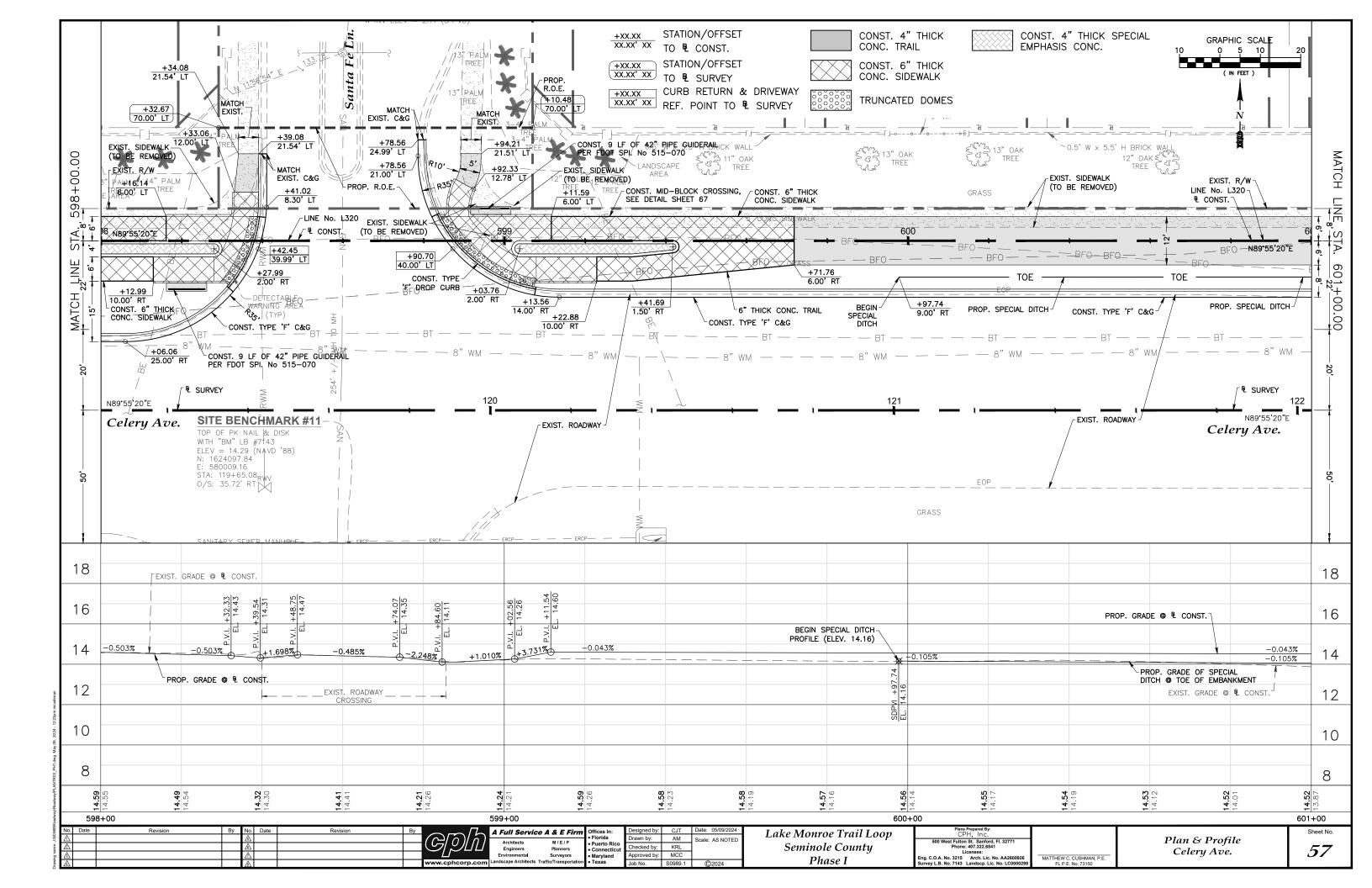


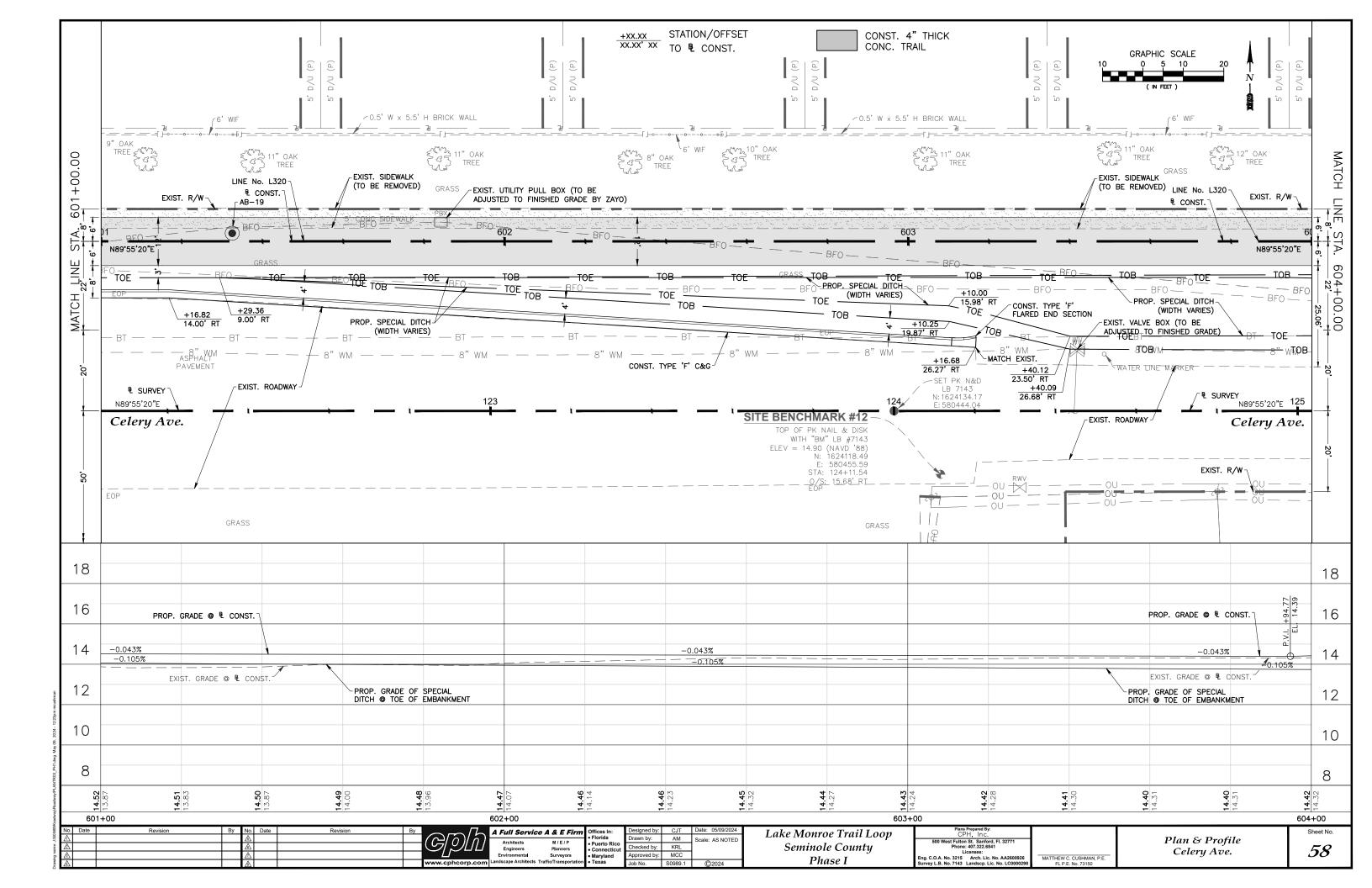


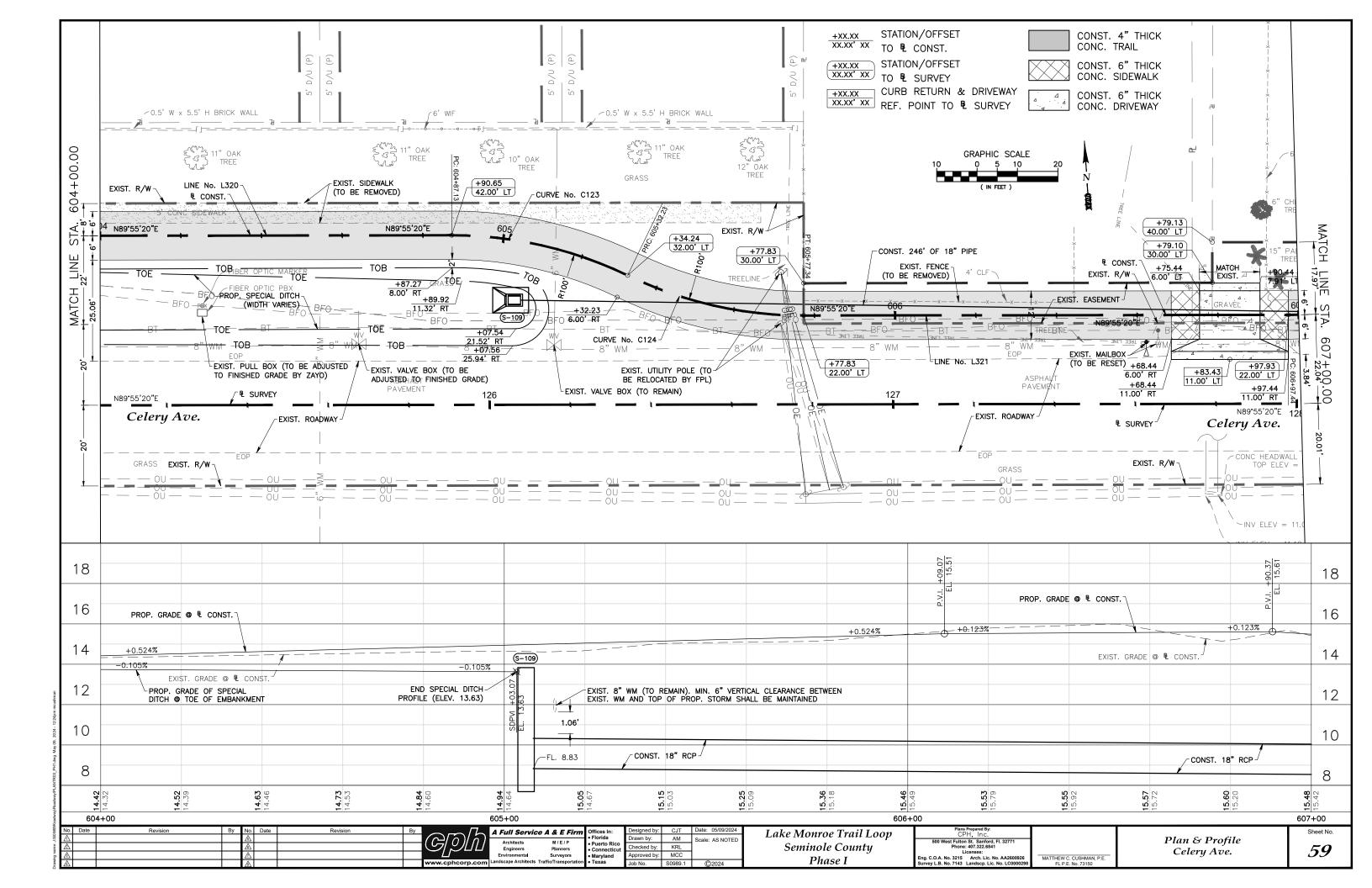


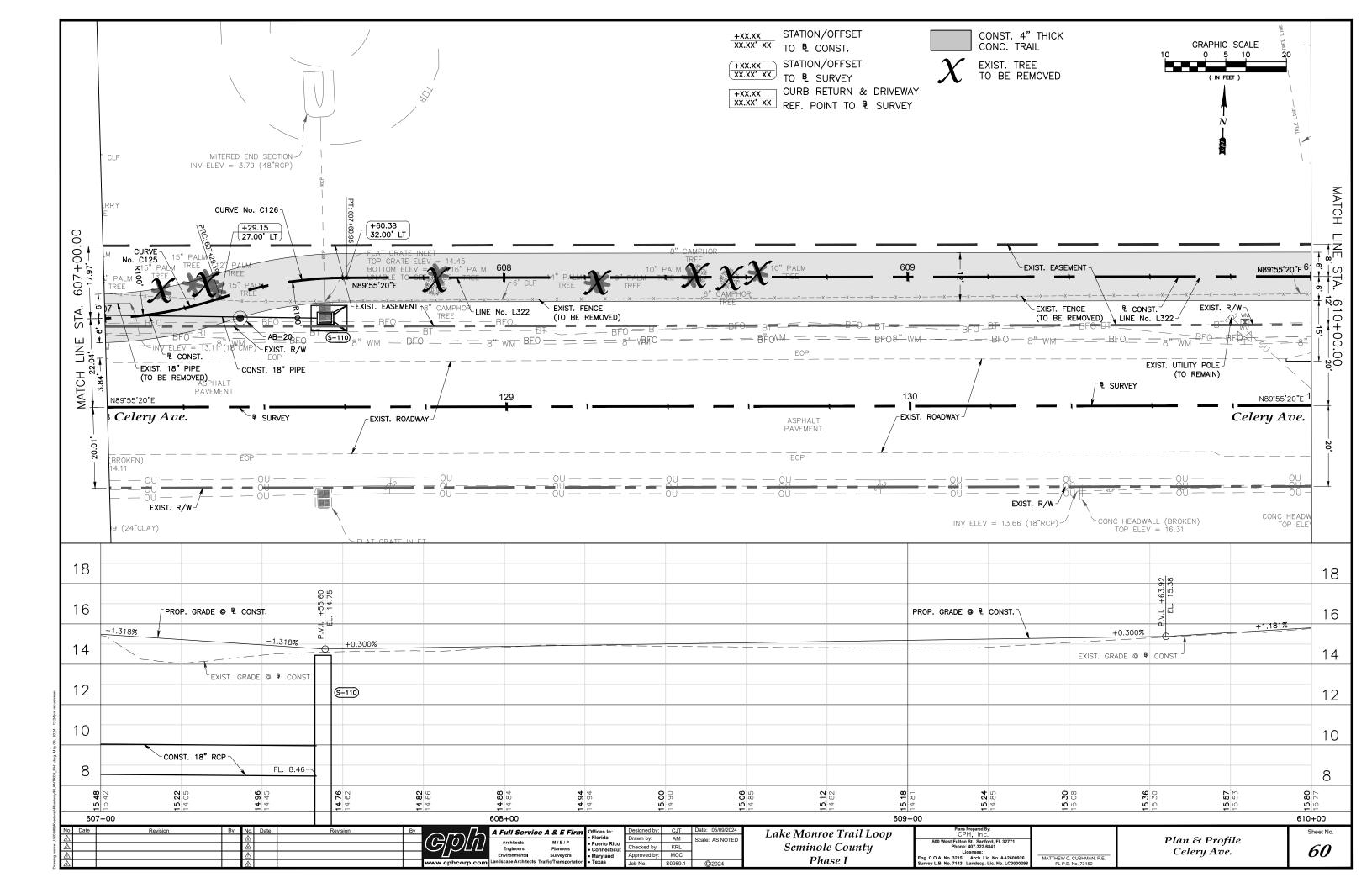


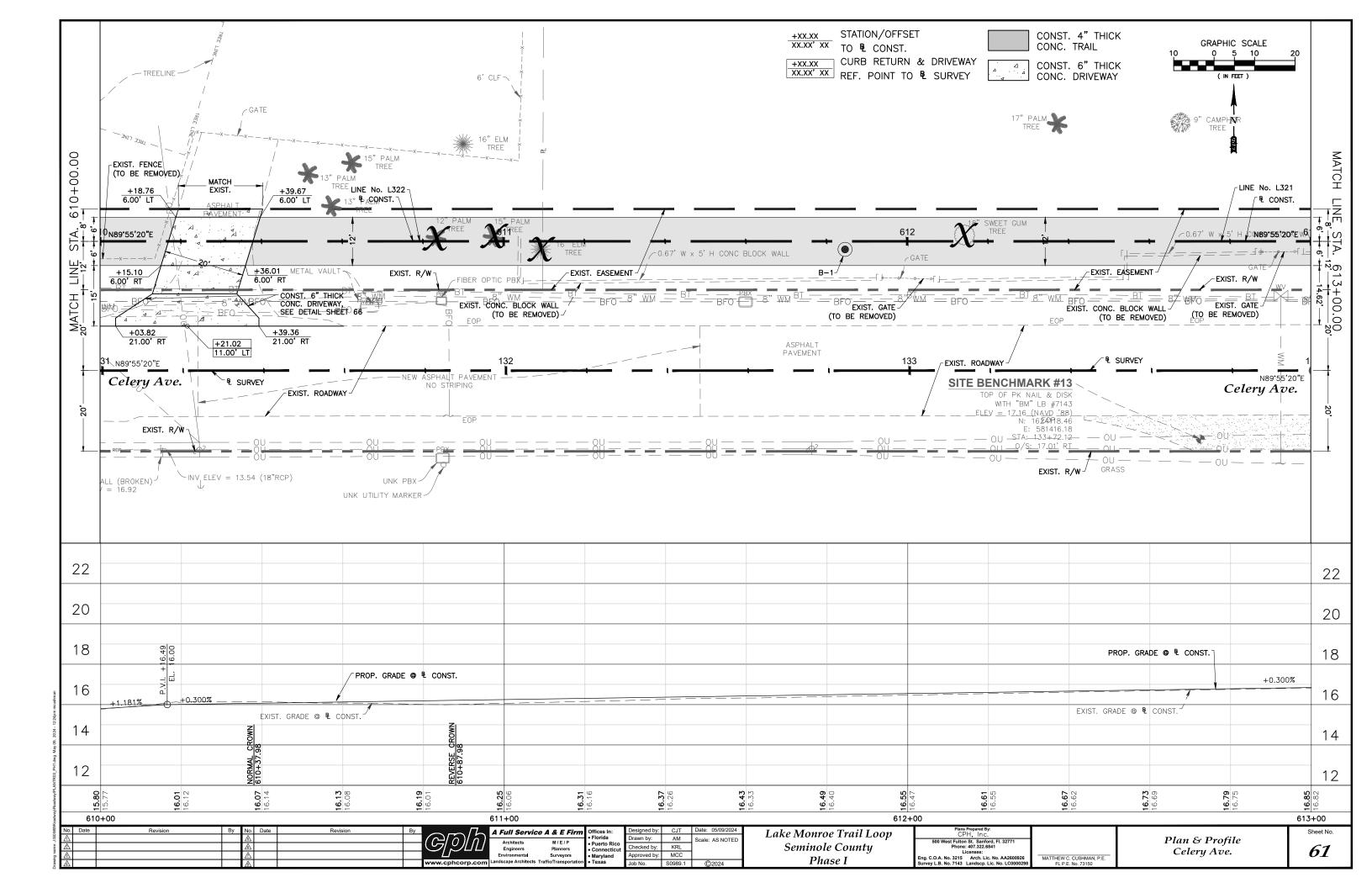


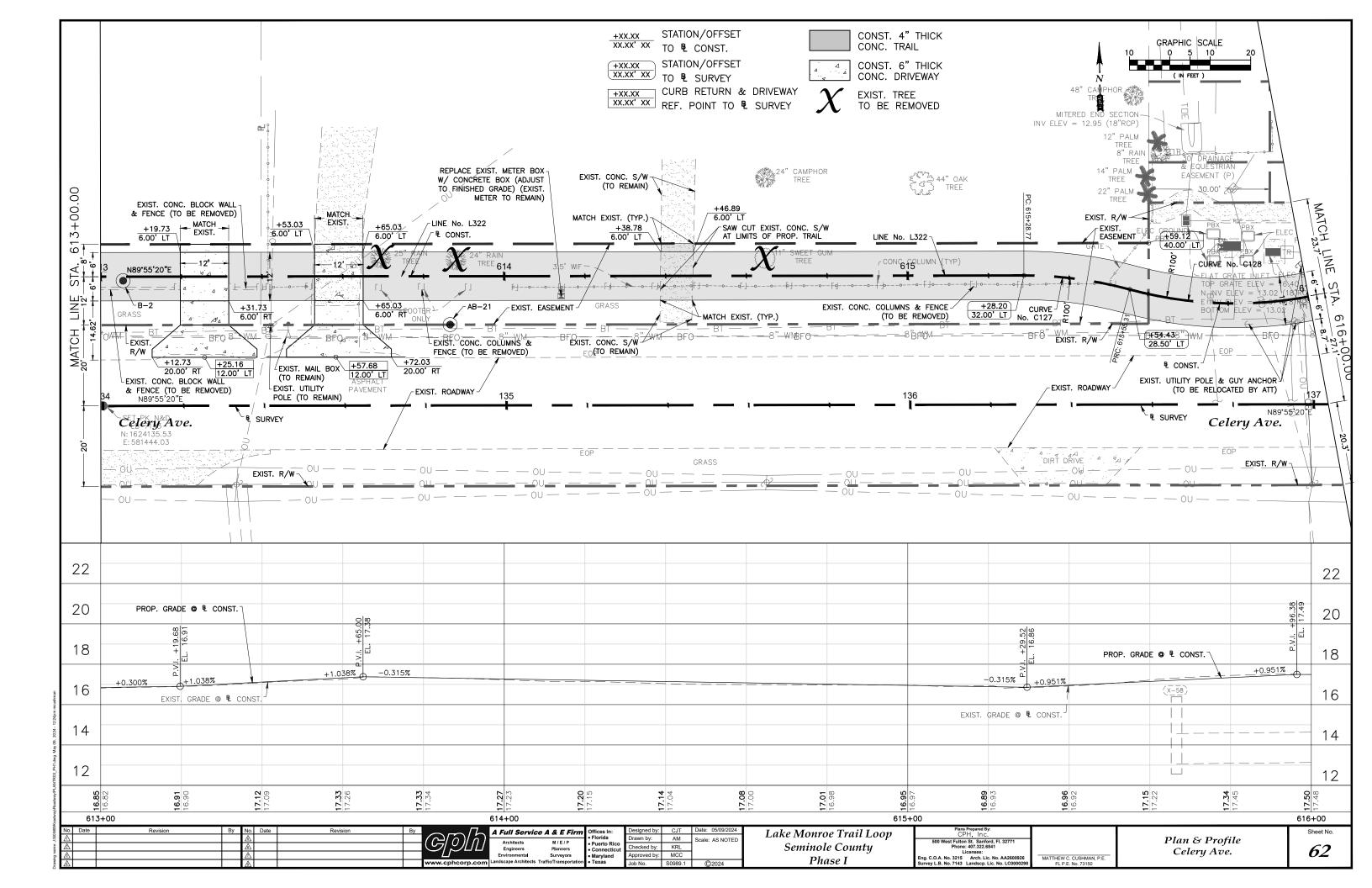


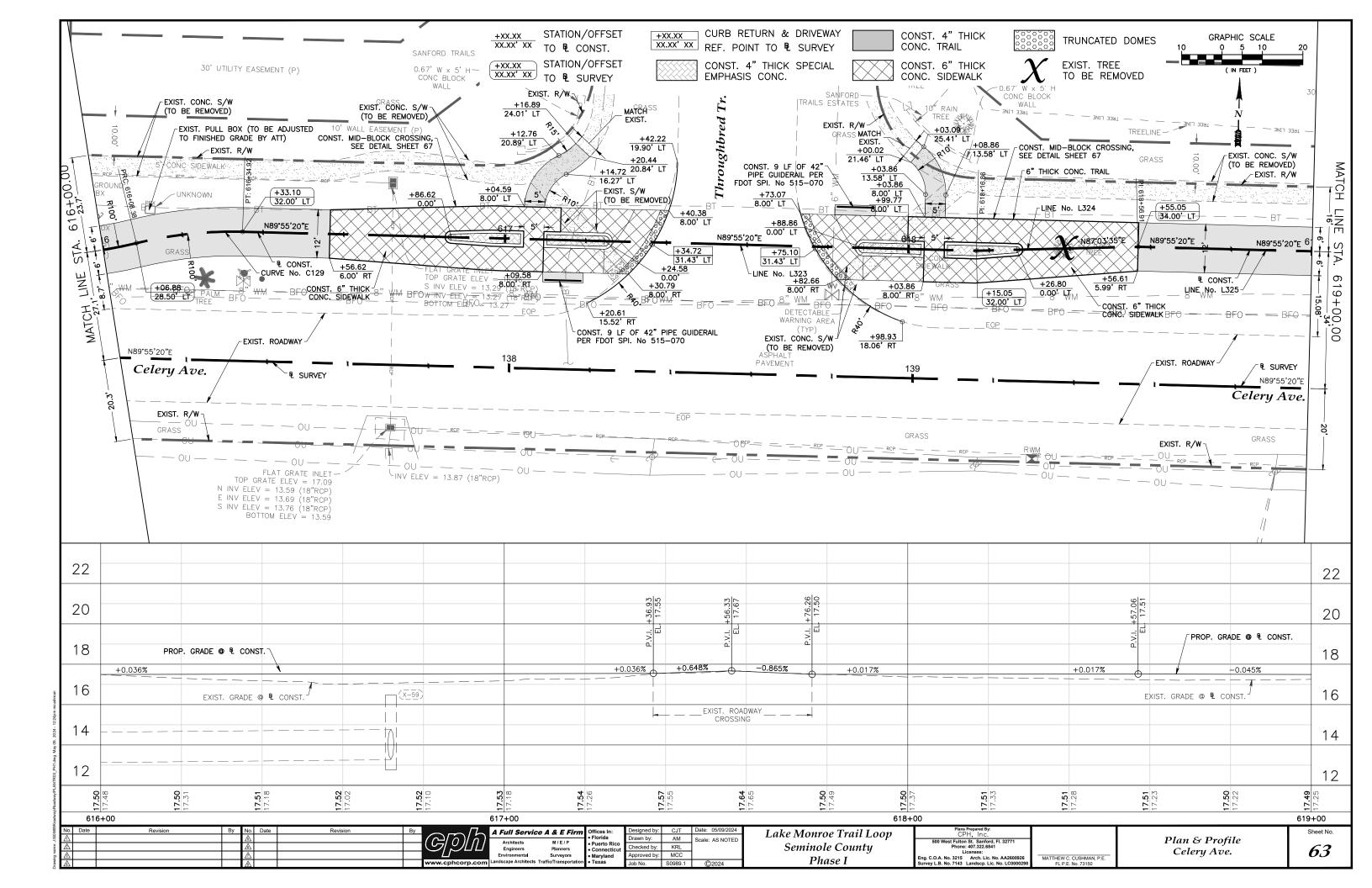


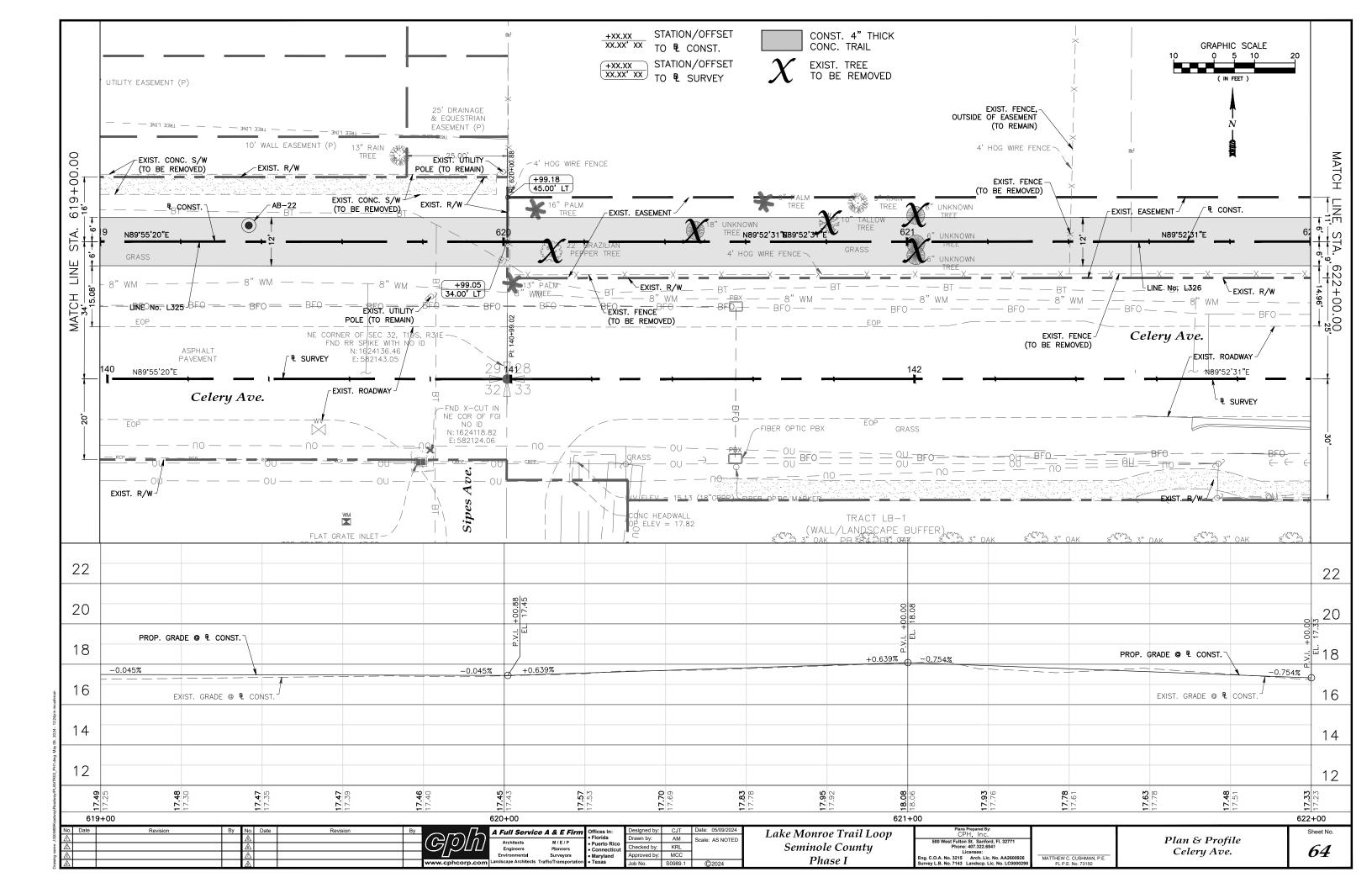


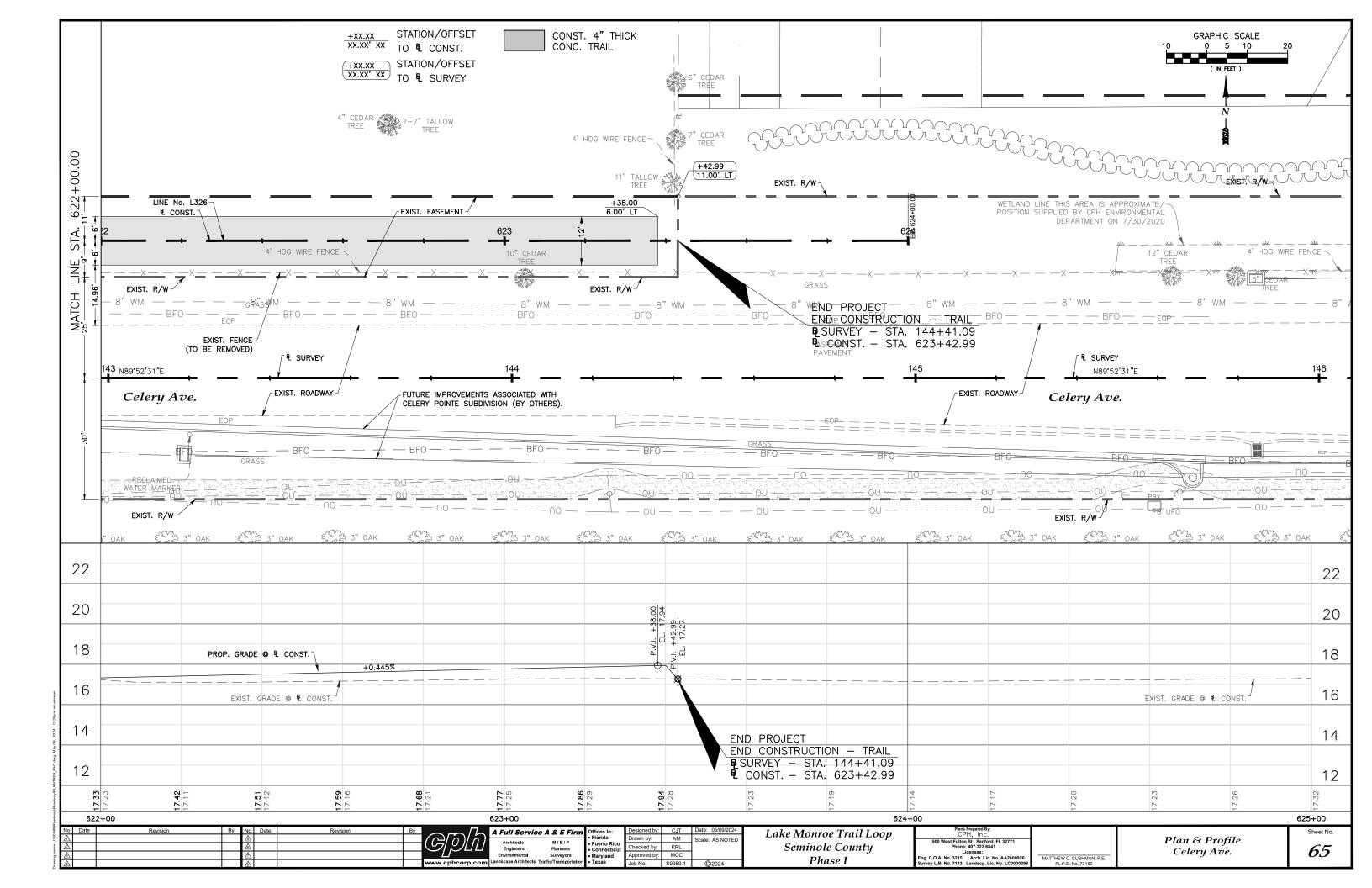


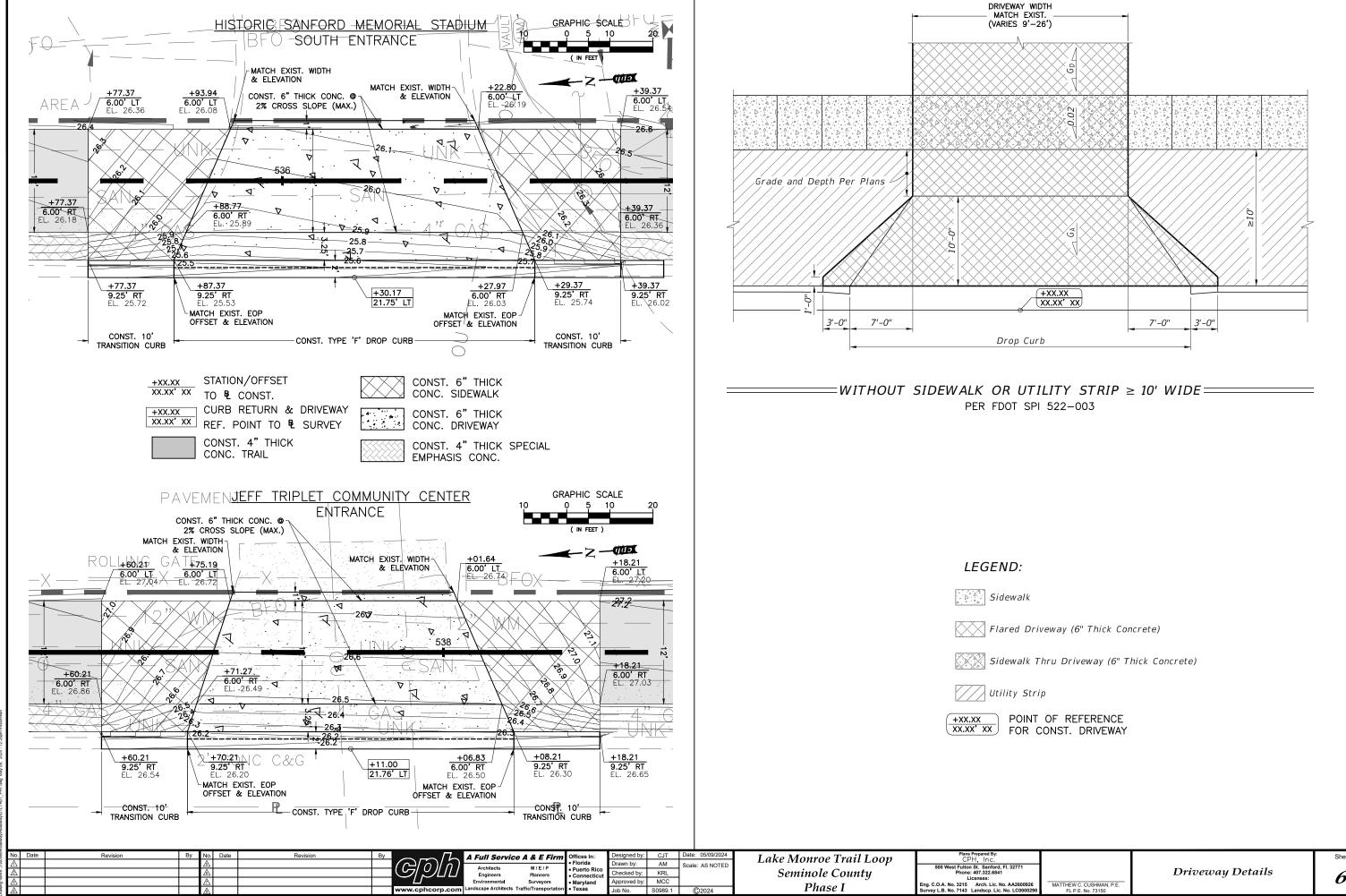


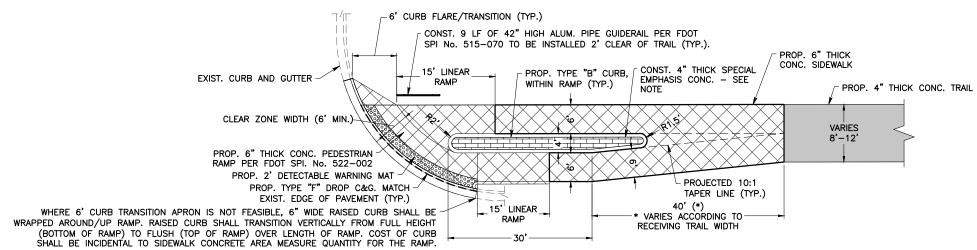






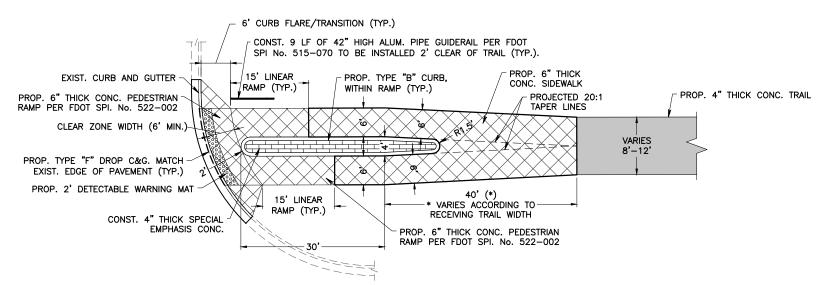






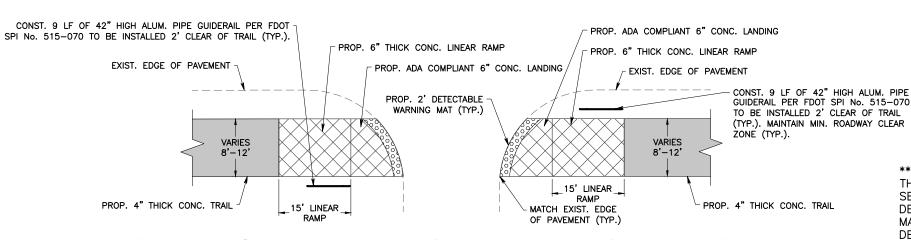
### Mid-Block Trail Crossing with Median (Offset)

SCALE: N.T.S



### Mid-Block Trail Crossing with Median (Centered)

SCALE: N.T.S



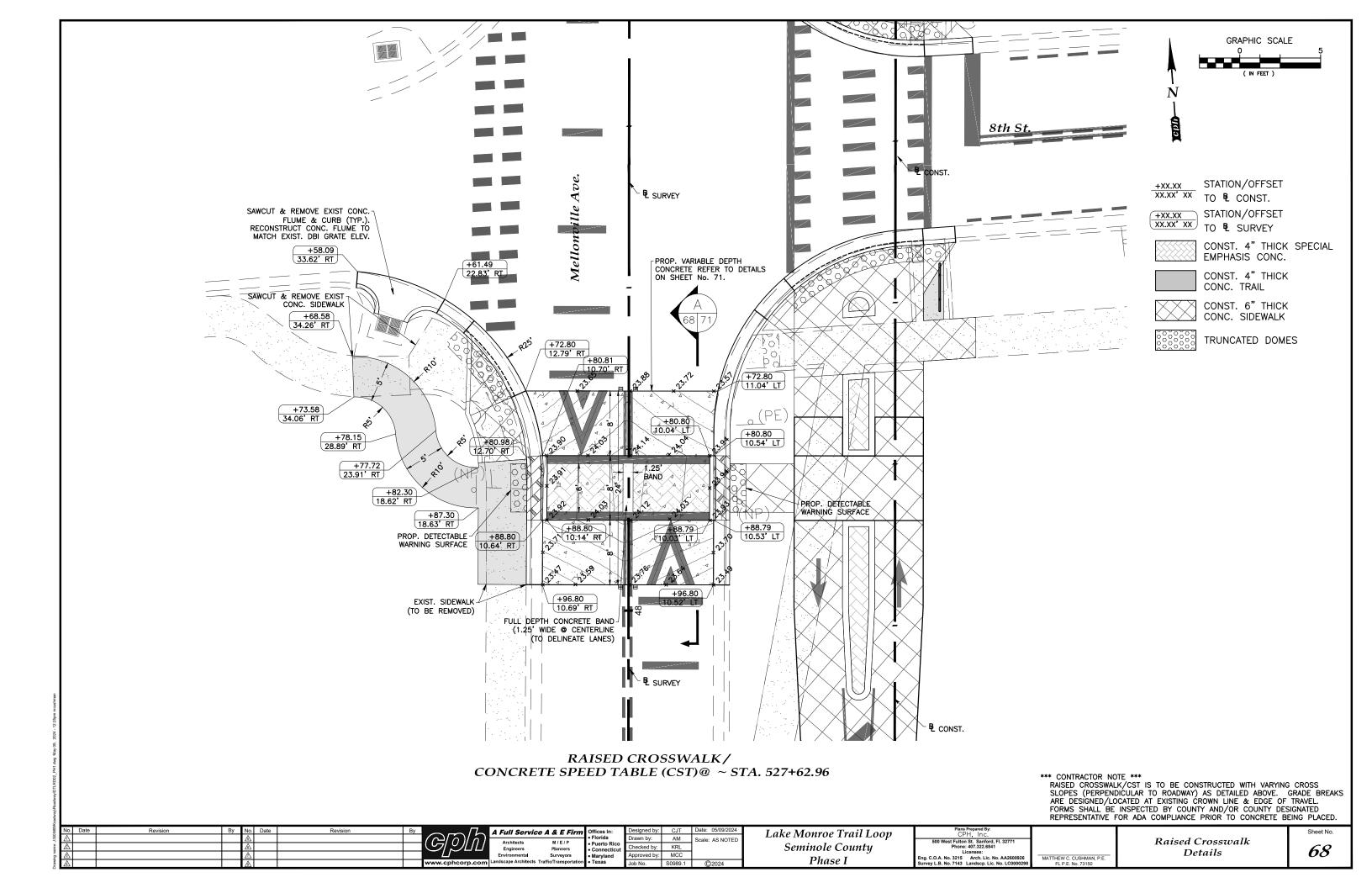
## Side Street/Driveway Trail Crossing without Median

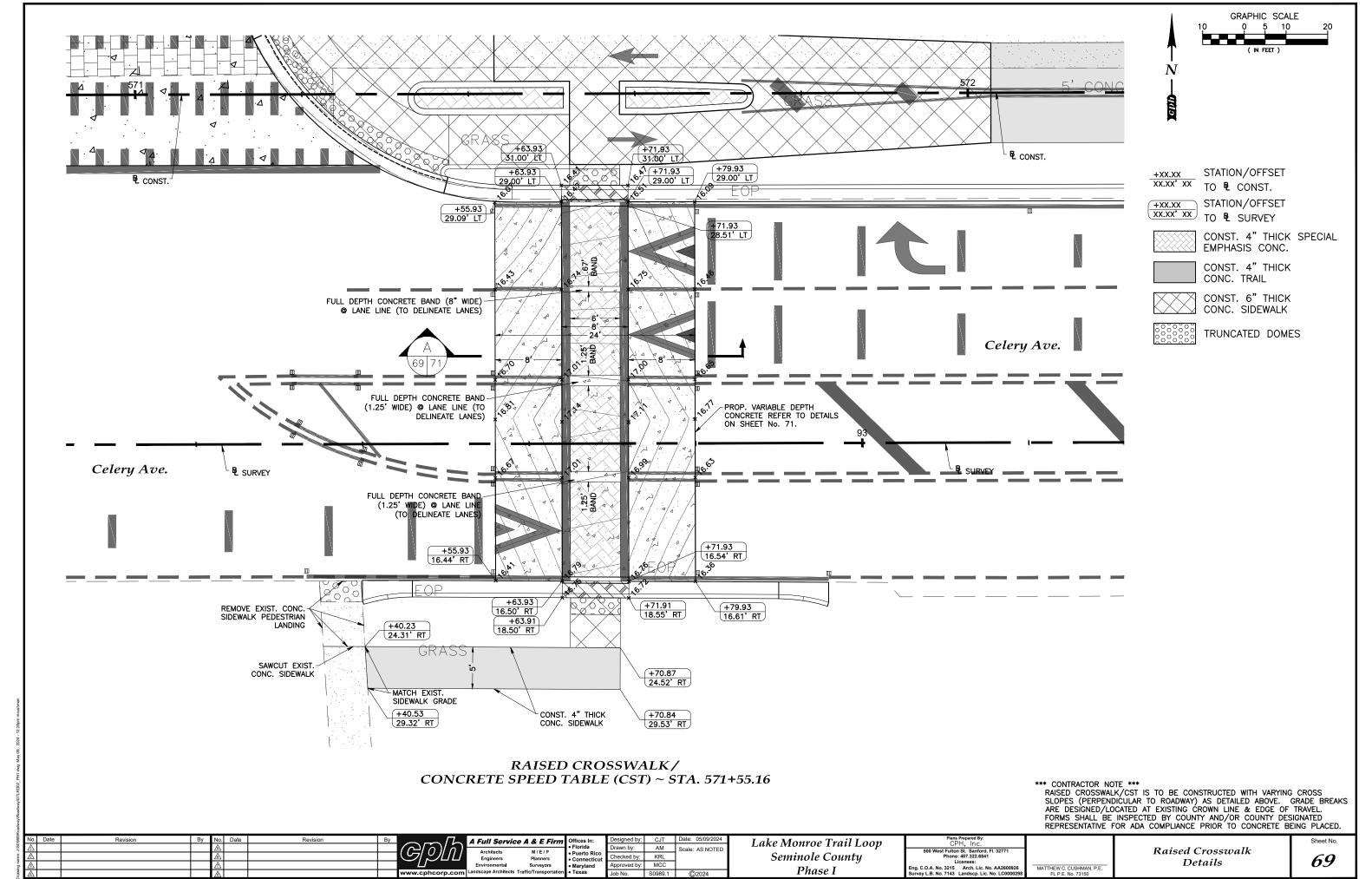
SCALE: N.T.S

\*\*\* NOTE —
THESE TYPICAL DETAILS ARE AS BASED UPON
SEMINOLE COUNTY TYPICAL TRAIL CROSSING
DETAILS. MINOR MODIFICATIONS HAVE BEEN
MADE TO ACCOMMODATE PROJECT SPECIFIC
DESIGN CONSTRAINTS.

4" THICK SPECIAL EMPHASIS CONCRETE SHALL BE FULL DEPTH RED COLORING WITH STAMPED HERRINGBONE BRICK PATTERN

8 N	No. Date	Revision By No. Date	Revision By	A Full Service A & E F	irm Offices In:	Designed by	: CJT Date: 05/09/2024	Lake Monroe Trail Loov	Plans Prepared By:			Sheet No.
SS: Z	<u> </u>				Florida	Drawn by:	AM Scale: AS NOTED	Luke Monroe Trutt Loop	FOO West Fulton St. Conford El 22774		Mid-Block Crossing	1 '
ë Z	<u> </u>	<u>A</u>		Architects M/E/P Engineers Planners	Puerto Rico     Connecticut	Checked by:	KRL	Seminole County	Phone: 407.322.6841		8	67
gu Z	<u> </u>	Δ.		Environmental Surveyors	Maryland	Approved by	r: MCC		Licenses:	MATTHEW C CHRIMAN DE	Details	0/
awk.			www.cphcorp.com	Landscape Architects Traffic/Transpo	rtation • Texas	Job No.	S0989.1 ©2024	Phase I	Survey L.B. No. 7143 Landscp. Lic. No. LC0000298	FLP F No 73150		1 '





Checked by:

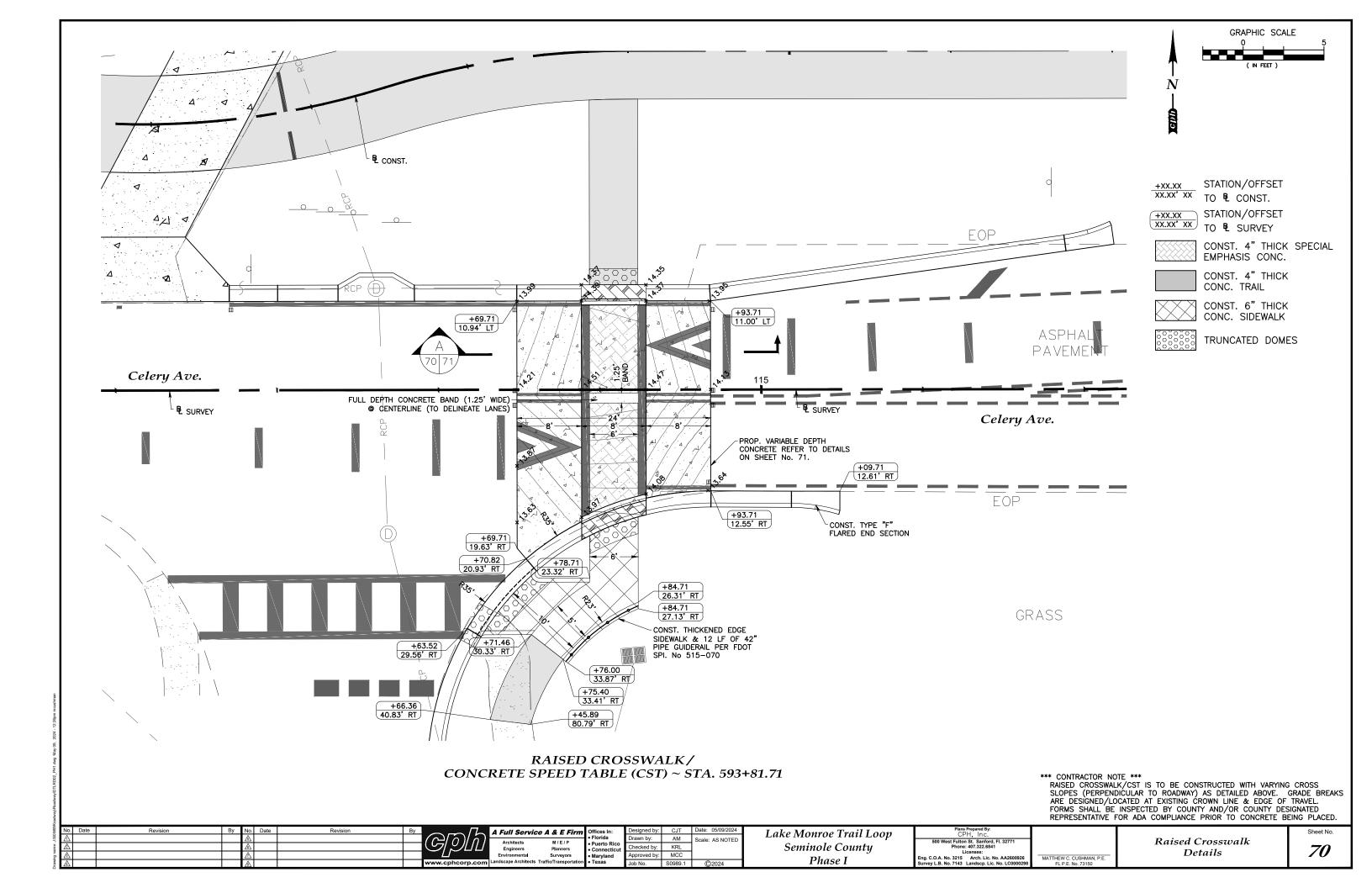
Seminole County

Phase I

Details

MATTHEW C. CUSHMAN, P.E. FL P.E. No. 73150

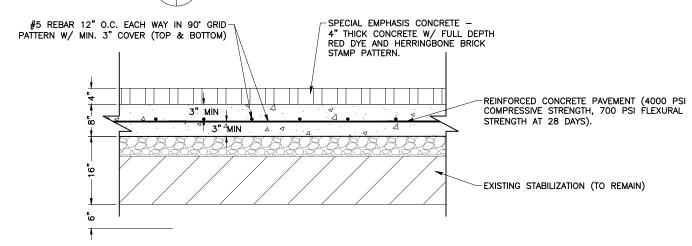
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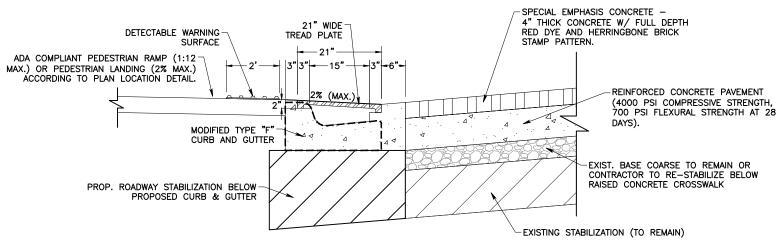
RAISED CROSS WALK

#### RAISED CROSSWALK NOTES

- 1. SEE SIGNING AND STRIPING PLANS FOR ADVANCE RAISED CROSSWALK MARKINGS.
- 2. ALL CONCRETE USED FOR RAISED CROSSWALK SHALL BE 4,000 PSI AND CURBING SHALL BE 3,000 PSI.
- 3. ALL STRIPING AND SIGN PLACEMENT SHALL CONFORM TO MUTCD AND FDOT STANDARDS.
- 4. ALL SIGNAGE USED SHALL CONFORM TO THE LATEST STANDARDS OF THE MUTCD AND FDOT.
- 5. ALL STRIPING USED SHALL BE REFLECTIVE THERMOPLASTIC.
- 6. CAST IRON TREAD PLATES SHALL BE ADA COMPLIANT AND SUBMITTED TO THE COUNTY FOR REVIEW/APPROVAL PRIOR TO ORDER. COST FOR TREAD PLATES SHALL BE INCIDENTAL TO THE REINFORCED CONCRETE PAVEMENT FOR THE RAISED CROSSWALK(S).
- 7. DETECTABLE WARNING SURFACES AND THEIR PLACEMENT SHALL COMPLY WITH FDOT STANDARD PLANS INDEX 522-002 (LATEST EDITION) AND SHALL BE MECHANICALLY FASTENED BY 3/8"x3.5" HOT-DIPPED, GALVANIZED SLEEVE ANCHORS AT 2 ANCHORS PER SQUARE FOOT. EXTERIOR CONSTRUCTION ADHESIVE MAY ONLY BE USED AS A SECONDARY BONDING AGENT.
- 8. GRADE TRANSITIONS FROM ROADWAY TO SPEED TABLES SHALL BE NEAT AND CLEAN WITH NO RAGGED EDGES.
- 9. CONTRACTOR SHALL CONSTRUCT RAISED CROSSWALKS ACCORDING TO DETAILS PROVIDED WITH SPECIAL ATTENTION TO ALL POINT ELEVATIONS REFERENCED AS THE RUNNING GRADE OF THE CROSSWALK MAY VARY ACROSS THE WIDTH OF THE ROADWAY. NO RUNNING GRADE (PARALLEL TO PEDESTRIAN DIRECTION OF TRAVEL) SHALL EXCEED 8.33% UNLESS SPECIFICALLY IDENTIFIED IN THE PLANS. NO CROSS SLOPE (PERPINDICULAR TO PEDESTRIAN DIRECTION OF TRAVEL) SHALL EXCEED 2% (1.5% PROVIDED BY DESIGN IS PREFERRED).
- 10. ROADWAY DRAINAGE FLOW PATTERNS/DIRECTIONS SHALL BE MAINTAINED UNLESS OTHERWISE NOTED IN THE PLANS

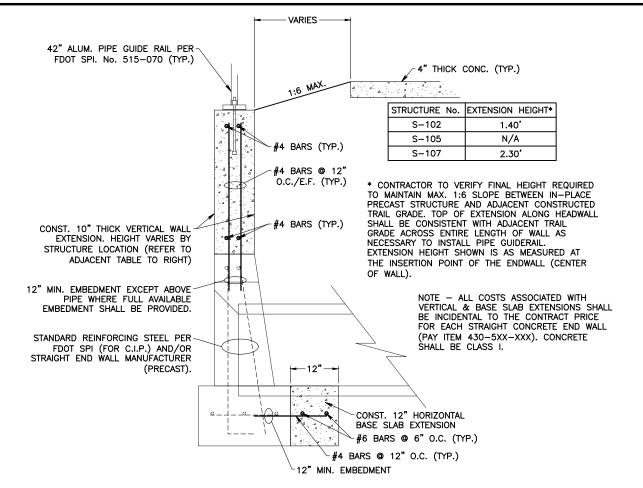


# RAISED CROSS WALK PAVEMENT SECTION (N.T.S)



## TREAD PLATE DETAIL (N.T.S)

No. Date	te Revision	By No. Date	Revision By	A Full Ser	vice A & E Firm	Offices In:	Designed by:	: CJT Date: 05/09/2024	Lake Monroe Trail Loov	Plans Prepared By:			Sheet No.
ξ. <u>Α</u>				Architects	M/E/P	Florida     Puerto Rico	Drawn by:	AM Scale: AS NOTED		500 West Fulton St. Sanford, Fl. 32771 Phone: 407.322.6841		Raised Crosswalk	l
<u>A</u>				Engineers Environmenta	Planners Surveyors	<ul><li>Connecticut</li><li>Maryland</li></ul>	Approved by:	: MCC	Seminole County	Licenses:		Details	<i>71</i>
W 23			www.cnbc	Landscape Archit	ects Traffic/Transportation	• Texas	Joh No	C0080 1 @2024	Phase I	Eng. C.O.A. No. 3215 Arch. Lic. No. AA2600926	MATTHEW C. CUSHMAN, P.E.		



#### END WALL VERTICAL (& BASE SLAB) **EXTENSION DETAIL** (N.T.S)

\*ALL SIDEWALK CURB RAMPS 1.6" MIN. SHALL HAVE DETECTABLE WARNING EDGE OF DETECTABLE SURFACES THAT EXTEND THE FULL 2.4" MAX. -DIRECTION OF TRAVEL WIDTH OF THE RAMP AND IN THE DIRECTION OF TRAVEL 24" FROM BACK OF CURB Ф 0 0 Ф. 0.9" MIN. TRUNCATED-1.4" MAX. /INTEGRAL MAX. 0 ٧ď DOME DOME --⊙ -0.2" ± 0.02" -0 0 0 0 BASE-TO-BASE SPACING SHALL THE TOP WIDTH OF THE DOME SHALL BE A MINIMUM OF 50% AND A MAXIMUM OF 65% OF THE BASE DIAMETER BE 0.65" MIN. BETWEEN DOMES

### **CURB RAMP DETECTABLE** WARNING DETAIL (N.T.S)

A Full Service A & E Firi

PLAN

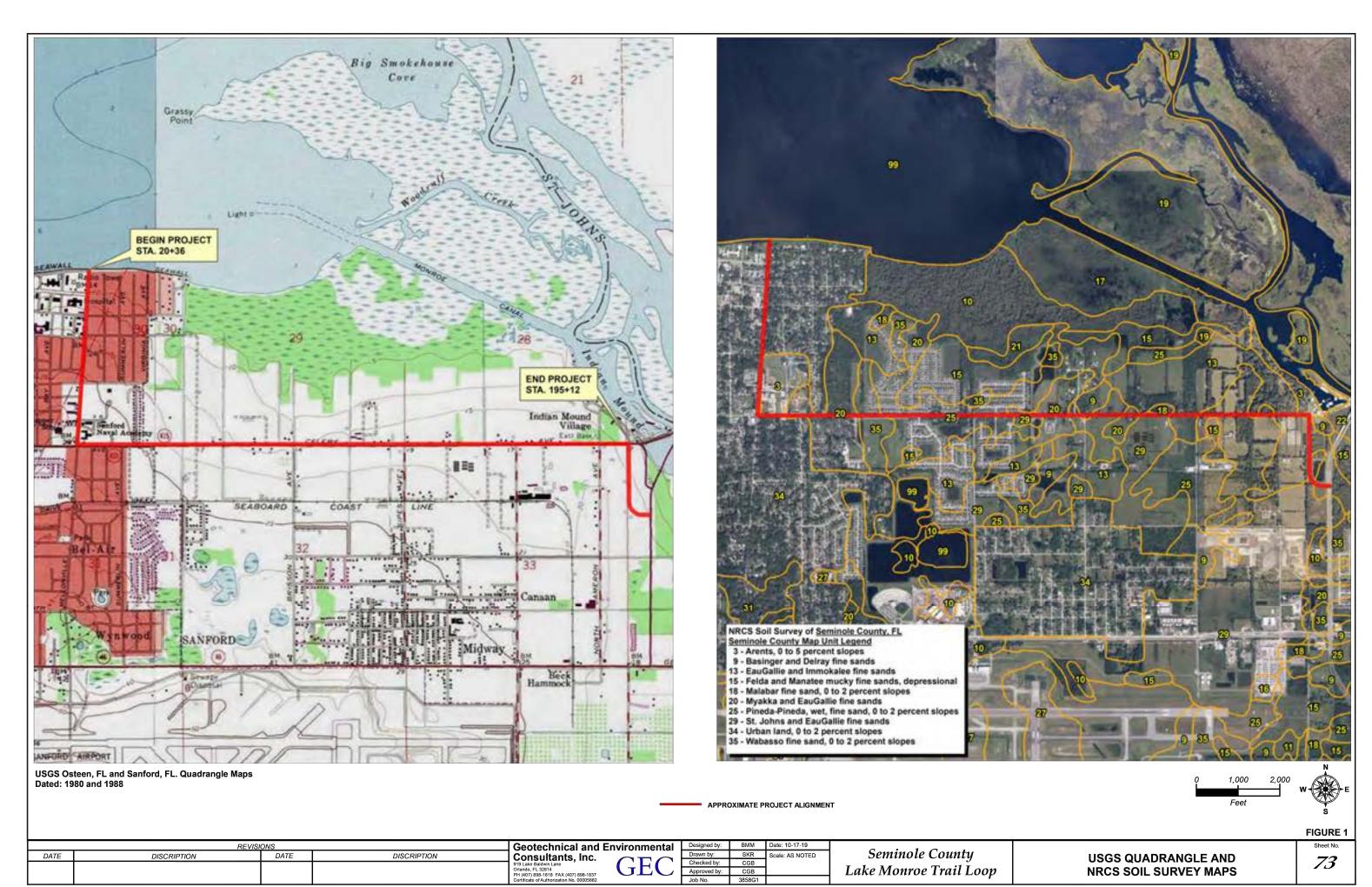
Designed by: CJT Date: 05/09/2024 AM Scale: AS NOTED KRL hecked by: MCC

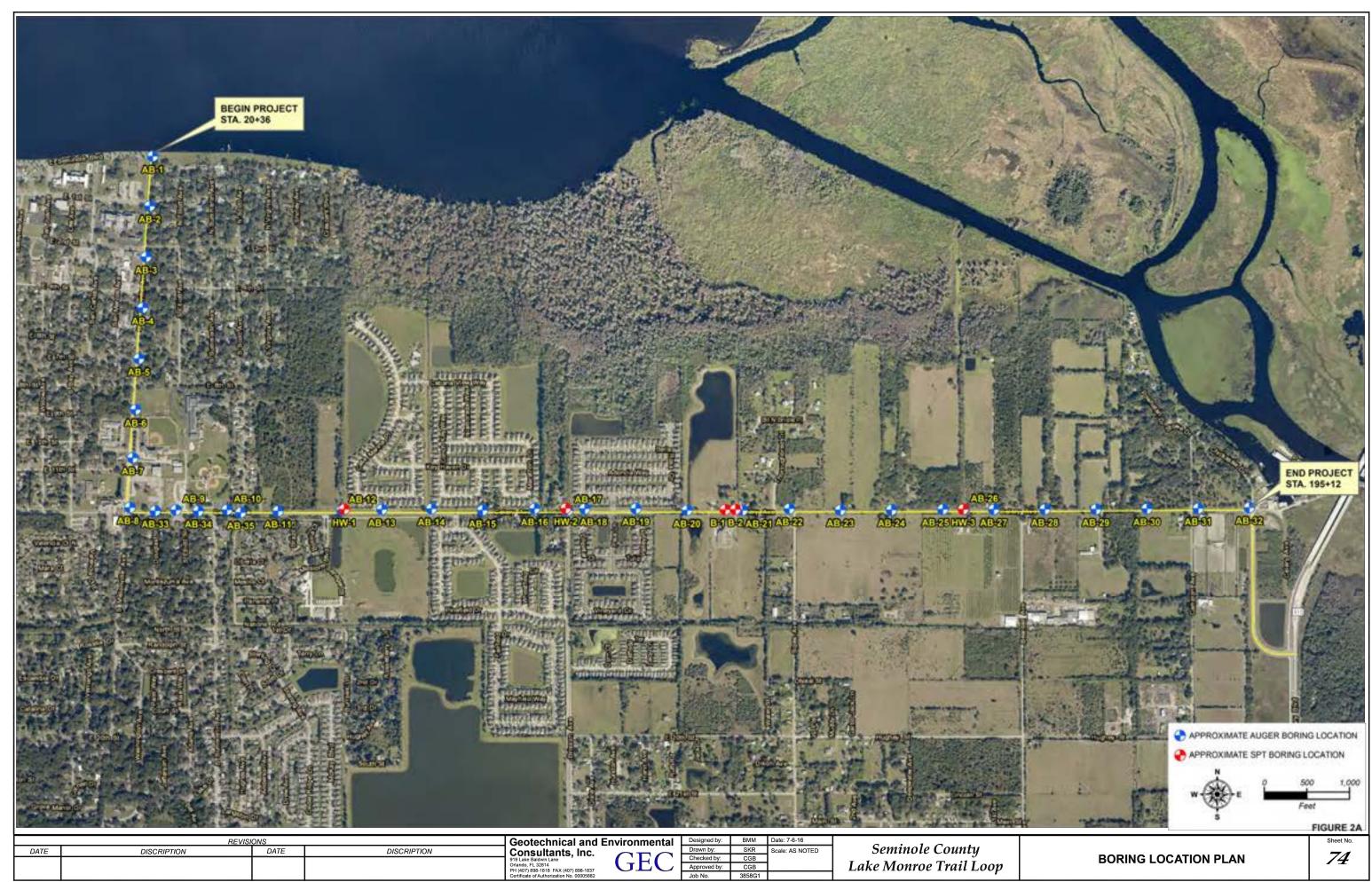
Lake Monroe Trail Loop Seminole County Phase I

**PROFILE** 

Plans Prepared By: CPH, Inc. 500 West Fulton St. Sanford, Fl. 32771 Phone: 407.322.6841 Licenses: Eng. C.O.A. No. 315 Arch. Lic. No. AA260092 Survey L.B. No. 7143 Landscp. Lic. No. LC0000 MATTHEW C. CUSHMAN, P.E.

General Details

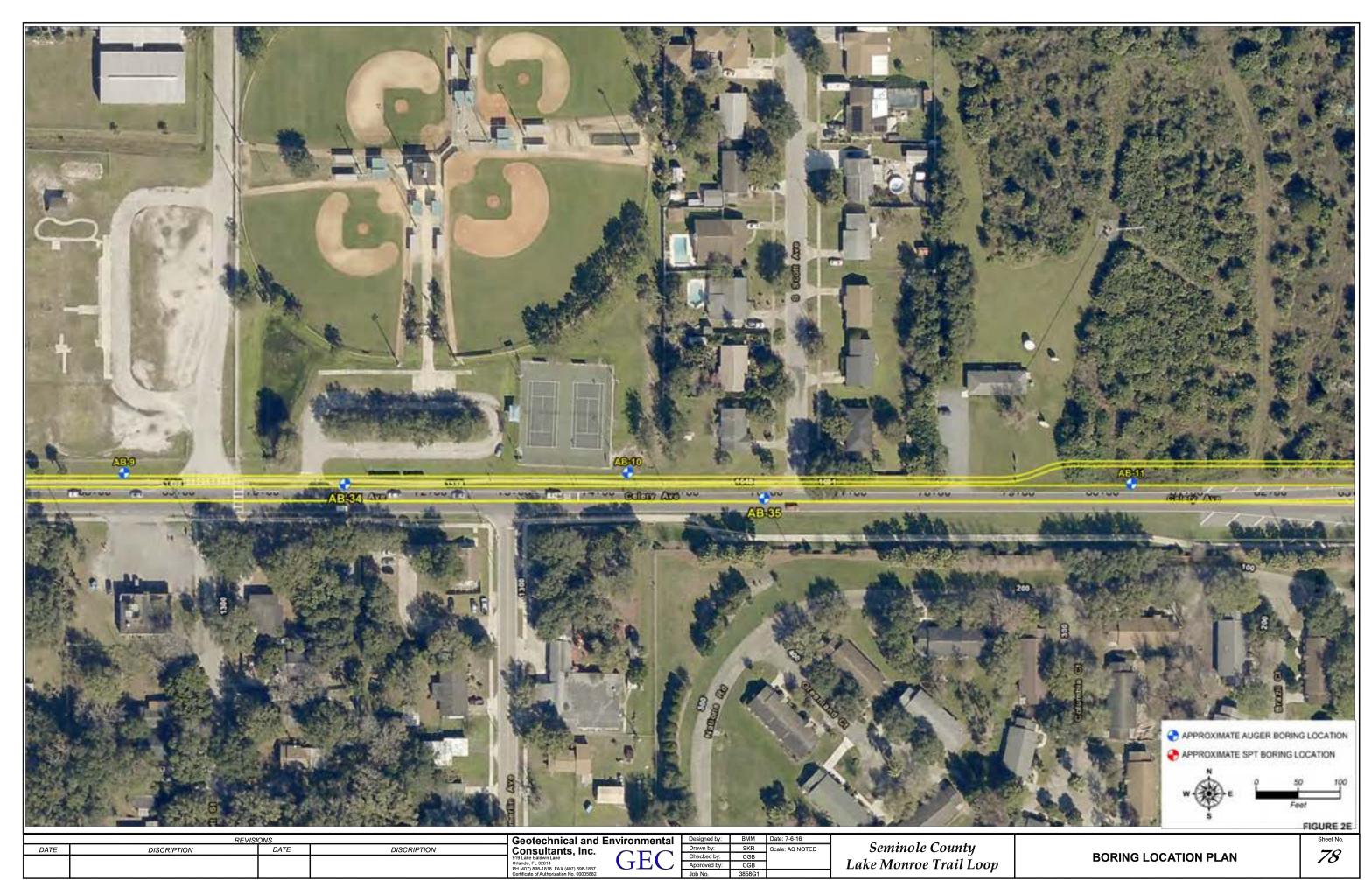






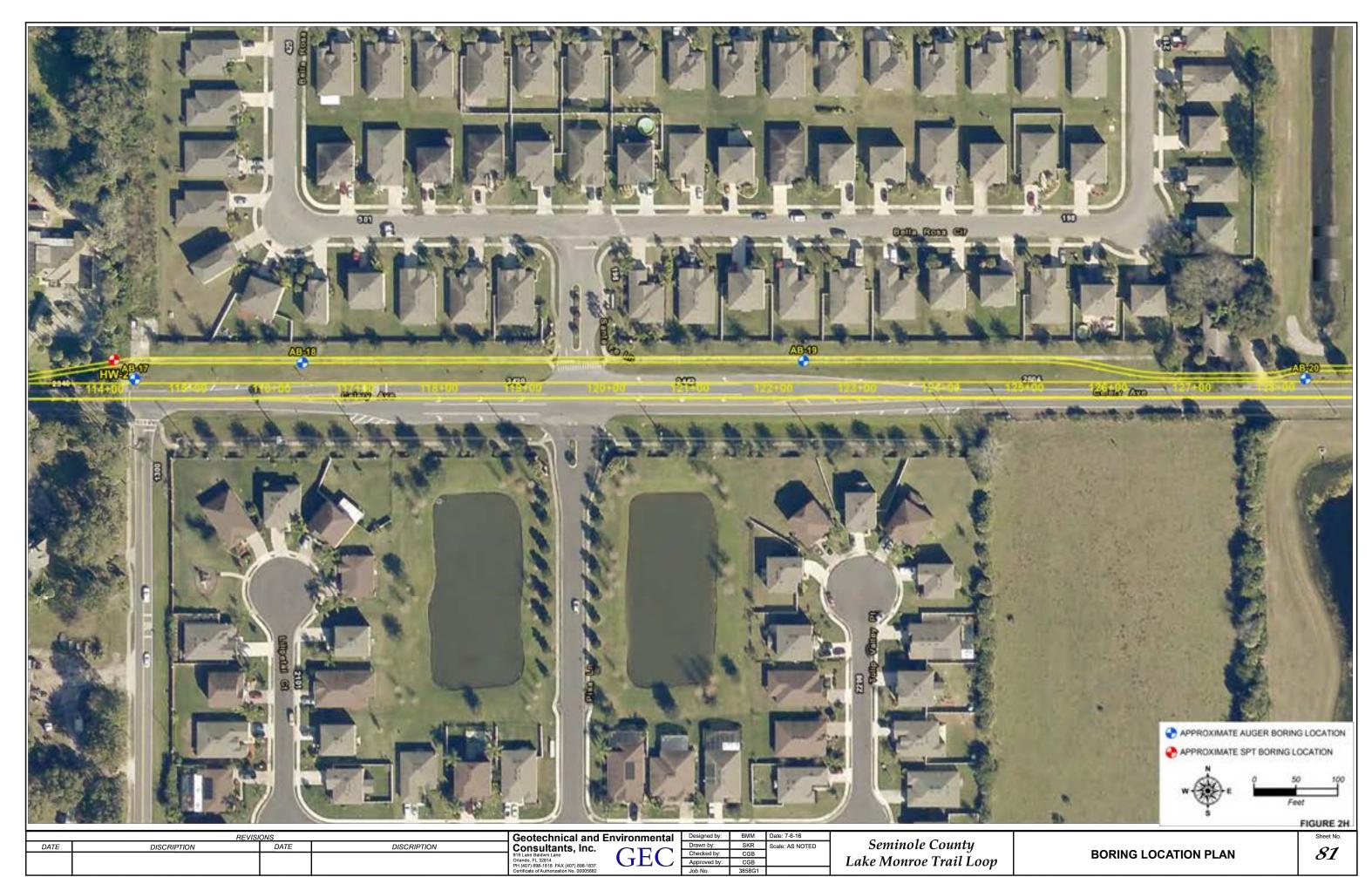
















COUNTY: SEMINOLE

DATE OF SURVEY: MAY 2015 AND OCTOBER 2019

SURVEY MADE BY: GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.

SUBMITTED BY: CRAIG G. BALLOCK, P.E.

PROJECT NAME: LAKE MONROE TRAIL LOOP

# CROSS SECTION SOIL SURVEY FOR THE DESIGN OF TRAILS

APPROXIMATE SOIL SURVEY BEGIN STA.: 20+36 APPROXIMATE SOIL SURVEY END STA.: 195+12

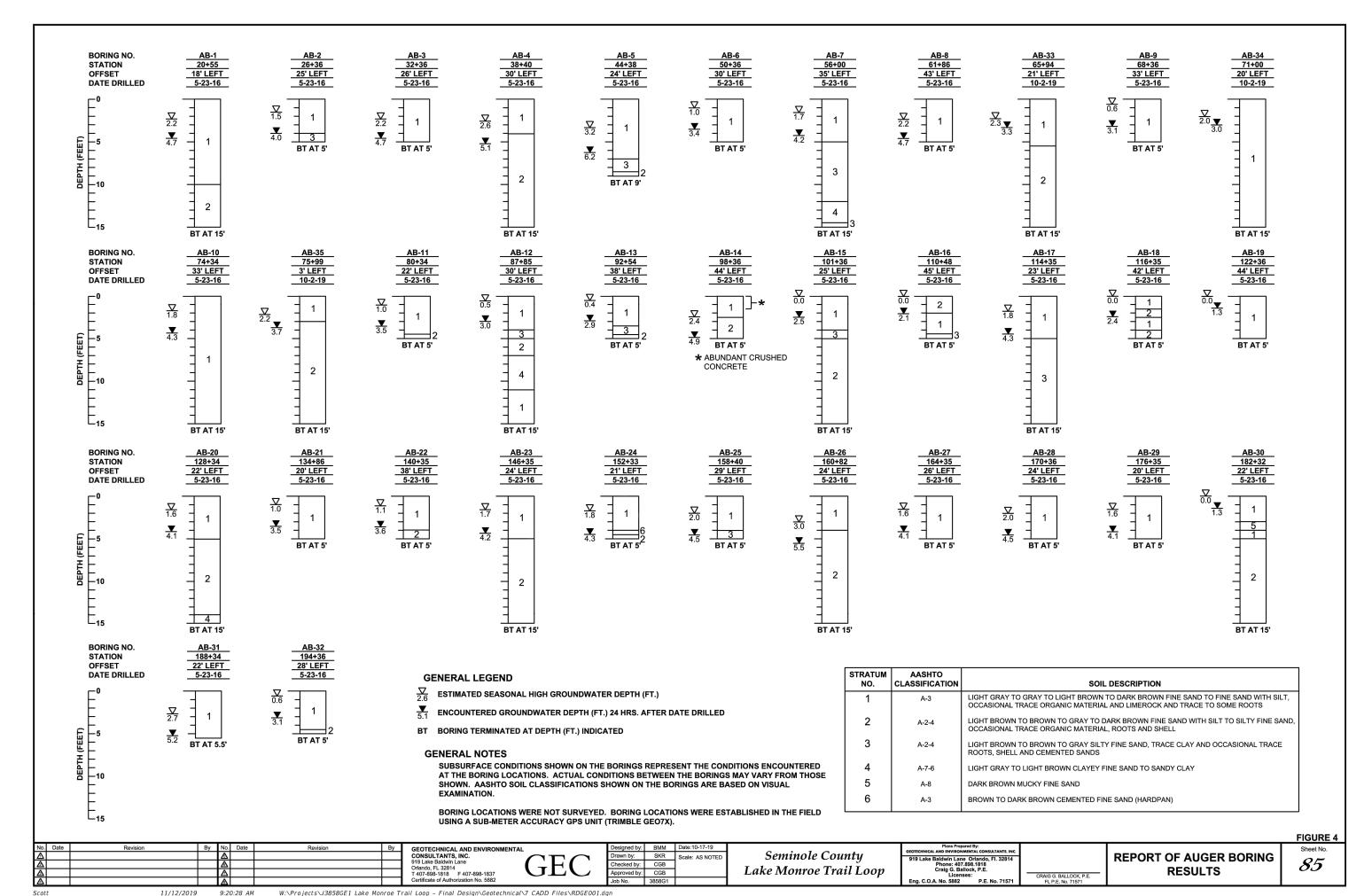
STATIONS REFERENCE: CENTERLINE

	ORGANIC MOISTURE CONTENT CONTENT								ATTERBERG LIMITS (%)					CORROSION TEST RESULTS						
STRATUM NO.				MOISTURI CONTENT		10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATESppm	pH
1	2	3-4	2	20-26	6(-200)	-	-	-	-	5-9	0	=	-	A-3	LIGHT GRAY TO GRAY TO LIGHT BROWN TO DARK BROWN FINE SAND TO FINE SAND WITH SILT, OCCASIONAL TRACE ORGANIC MATERIAL AND LIMEROCK AND TRACE TO SOME ROOTS	1	13,500	15	<6	6.3
2	1	4	1	21	5(-200)	-	-	-	-	11-15	0	-	-	A-2-4	LIGHT BROWN TO BROWN TO GRAY TO DARK BROWN FINE SAND WITH SILT TO SILTY FINE SAND, OCCASIONAL TRACE ORGANIC MATERIAL, ROOTS AND SHELL	0	-	-	-	-
3	0	-	0	-	0	-	-	-	-	-	0	-	-	A-2-4	LIGHT BROWN TO BROWN TO GRAY SILTY FINE SAND, TRACE CLAY AND OCCASIONAL TRACE ROOTS, SHELL AND CEMENTED SANDS	0	-	-	-	-
4	0	-	3	24-34	3(-200)	-	-	-	-	48-59	3	44-57	28-44	A-7-6	LIGHT GRAY TO LIGHT BROWN CLAYEY FINE SAND TO SANDY CLAY	0	-	-	-	-
5	1	8	1	19	1(-200)	-	-	-	-	18	0	-	-	A-8	DARK BROWN MUCKY FINE SAND	0	-	-	-	-
6	0	-	0	-	0	-	-	-	-	-	0	-	-	A-3	BROWN TO DARK BROWN CEMENTED FINE SAND (HARDPAN)	0	-	-	-	-

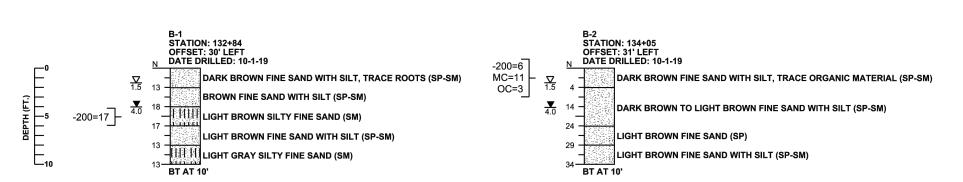
# NOTES

- 1. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH TEST HOLE LOCATION ONLY. ANY STRATUM CONNECTING LINES THAT ARE SHOWN ARE FOR ESTIMATING EARTHWORK ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN ARTICLE 2-4 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. FOR FURTHER DETAILS SEE ARTICLE 120-3.
- 2. WATER TABLE SHOWN AS lacktriangledown WHERE ENCOUNTERED AT TIME OF SURVEY. ESTIMATED SEASONAL HIGH SHOWN AS lacktriangledown .
- 3. REMOVAL OF MUCK MATERIAL (STRATA NO. 5) OCCURRING WITHIN TRAIL SHALL BE ACCOMPLISHED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002, OF THE FDOT DESIGN STANDARDS UNLESS OTHERWISE SHOWN ON PLANS. THE MATERIAL USED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001 OF THE FDOT DESIGN STANDARDS.
- 4. THE SYMBOL "-" REPRESENTS AN UNMEASURED PARAMETER.
- 6. STRATA 1, 2 AND 3 SHALL BE TREATED AS SELECT (S) MATERIAL IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
- 7. STRATA 2 AND 3 MAY RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT.
- 8. STRATUM 4 SHALL BE TREATED AS HIGH PLASTIC (H) MATERIAL IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
  THE MATERIAL USED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001 OF THE FDOT DESIGN STANDARDS.
- 9. STRATUM 5 SHALL BE TREATED AS MUCK (M) MATERIAL IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
- 10. LAYERS OF VERY HARD MATERIAL SUCH AS HARDPAN, CEMENTED SAND, SHELL, ETC. MAY BE ENCOUNTERED IN VARIOUS AREAS OF THE PROJECT. SUCH MATERIALS WILL BE DIFFICULT TO EXCAVATE OR PENETRATE. THE CONTRACTOR SHALL EXPECT TO ENCOUNTER THESE VERY HARD MATERIALS IN ALL EXCAVATIONS AND SHALL USE SPECIALIZED EQUIPMENT AND/OR PROCEDURES AS NECESSARY TO FACILITATE EXCAVTION AND/OR PENETRATION.
- 11. STRATUM 6 MAY BE DIFFICULT TO DEWATER AND/OR PENETRATE AND MAY REQUIRE SPECIAL EQUIPMENT AND/OR PROCEDURES TO FACILITATE EXCAVATION AND/OR PENETRATION. STRATUM 6 CAN BE TREATED AS SELECT (S) MATERIAL BUT MAY NEED TO BE PULVERIZED PRIOR TO USE AS FILL.
- 12. SOIL SURVEY INCLUDES DATA FROM TRAIL AUGER BORINGS ONLY.
- 13. THE FLORIDA GEOLOGICAL SURVEY MAP ENTITLED "THE UPPER FLORIDAN AQUIFER POTENTIOMETRIC SURFACE CONTOURS, SEPTEMBER, 2016" INDICATES THE POTENTIOMETRIC SURFACE OF THE FLORIDA AQUIFER ELEVATION RANGES FROM +18 TO +25 FEET NGVD. THE CONTRACTOR SHALL BE PREPARED TO HANDLE ARTESIAN HEAD LEVELS UP TO +25 FEET NGVD.

									FIGURE 3
N A A	o. Date Revision  \( \)	By No. Date   Revision   B	# GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 1919 Lake Baldwin Lane Orlando, FL 32814 T 407-898-1818 F 407-898-1837 Certificate of Authorization No. 5882	Designed by: BMM   Date:10-17-19	Seminole County Lake Monroe Trail Loop	Plans Prepared By: GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 919 Lake Baldwin Lane Orlando, Fl. 32814 Phone: 407.898.1818 Graig G. Ballock, P.E. Licenses: Eng. C.O.A. No. 5882 P.E. No. 71571	CRAIG G. BALLOCK, P.E. FL P.E. No. 71571	TRAIL SOIL SURVEY	Sheet No. <b>84</b>



**HEADWALLS** HW-1 STATION: 88+12 OFFSET: 41' LEFT HW-2 STATION: 114+12 OFFSET: 45' LEFT STATION: 160+82 OFFSET: 29' LEFT DATE DRILLED: 10-2-19 DATE DRILLED: 10-1-19 DATE DRILLED: 10-1-19 DEPTH (FT.) BROWN FINE SAND WITH SILT (SP-SM) BROWN FINE SAND, SOME LIMEROCK (SP) -200=5 BROWN FINE SAND WITH SILT, TRACE LIMEROCK (SP-SM) BROWN FINE SAND (SP) LIGHT BROWN FINE SAND (SP) -200=5 DARK BROWN FINE SAND WITH SILT, LIGHT GRAY CLAYEY FINE SAND (SC) TRACE ORGANIC MATERIAL (SP-SM) -200=16 LIGHT BROWN SILTY FINE SAND (SM) BROWN FINE SAND WITH SILT (SP-SM) LIGHT BROWN TO GRAY SILTY FINE SAND (SM) LIGHT BROWN FINE SAND WITH SILT (SP-SM) LIGHT BROWN SILTY FINE SAND (SM) -111111 **BROWN SILTY FINE SAND (SM)** LIGHT GRAY SILTY FINE SAND, TRACE CEMENTED SAND AND SHELL (SM) -200=89 LIGHT BROWN SILTY FINE SAND, TRACE SHELL (SM) MC=63 gray fat clay, some shell (CH) 6 TH HH LIGHT GRAY FINE SAND WITH SILT, MOSTLY SHELL (SP-SM) LL=83 BT AT 20' BT AT 20' PI=61 CONCRETE BLOCK WALL



# **GENERAL NOTES**

SUBSURFACE CONDITIONS SHOWN ON THE BORINGS REPRESENT THE CONDITIONS ENCOUNTERED AT THE BORING LOCATIONS. ACTUAL CONDITIONS BETWEEN THE BORINGS MAY VARY FROM THOSE SHOWN. UNIFIED SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL EXAMINATION AND THE LABORATORY TESTING SHOWN.

STANDARD PENETRATION TEST BORINGS WERE PERFORMED IN ACCORDANCE WITH ASTM D-1586. STANDARD PENETRATION RESISTANCES ARE SHOWN ON THE BORINGS AT THE TEST DEPTHS IN BLOWS PER FOOT UNLESS OTHERWISE NOTED.

BORING LOCATIONS WERE NOT SURVEYED. BORING LOCATIONS WERE ESTABLISHED IN THE FIELD USING A SUB-METER ACCURACY GPS UNIT (TRIMBLE GEOTX).

THE FLORIDA GEOLOGICAL SURVEY MAP ENTITLED "THE UPPER FLORIDAN AQUIFER POTENTIOMETRIC SURFACE CONTOURS, SEPTEMBER, 2016" INDICATES THE POTENTIOMETRIC SURFACE OF THE FLORIDA AQUIFER ELEVATION RANGES FROM +18 TO +25 FEET NGVD. THE CONTRACTOR SHALL BE PREPARED TO HANDLE ARTESIAN HEAD LEVELS UP TO +25 FEET NGVD.

SPLIT SPOON SAMPLER: INSIDE DIAMETER: 1.375 IN. OUTSIDE DIAMETER: 2.0 IN. AVERAGE HAMMER DROP: 30 IN. HAMMER WEIGHT: 140 LBS.

# GENERAL LEGEND

Z ESTIMATED SEASONAL HIGH GROUNDWATER DEPTH (FT.)

ENCOUNTERED GROUNDWATER DEPTH (FT.) 24 HRS. AFTER DATE DRILLED

BT BORING TERMINATED AT DEPTH (FT.) INDICATED

-200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE

MC= PERCENT NATURAL MOISTURE CONTENT

LL= LIQUID LIMIT

PI= PLASTICITY INDEX

OC= PERCENT ORGANIC CONTENT

SAND

SAND AND CLAY

SAND AND SILT



# CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL

GRANULAR SOILS

MANUAL HAMMER (SAFETY)

N VALUE
(blows per foot)

0-4

4-10

LOOSE
4-10

10-30

MEDIUM DENSE

4-10 LOOSE
10-30 MEDIUM DENSE
30-50 DENSE
OVER 50 VERY DENSE

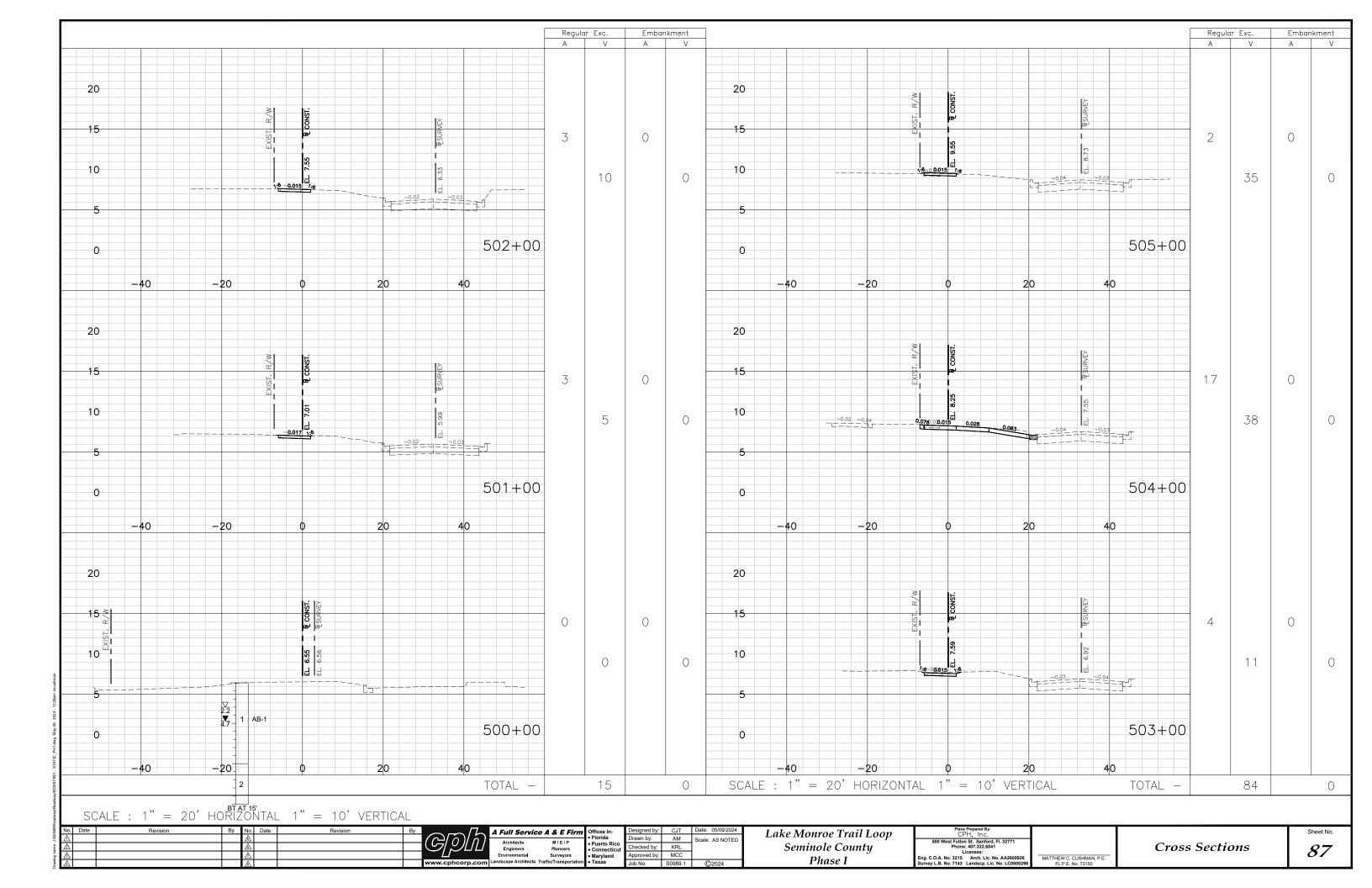
MANUAL HAMMER (SAFETY)

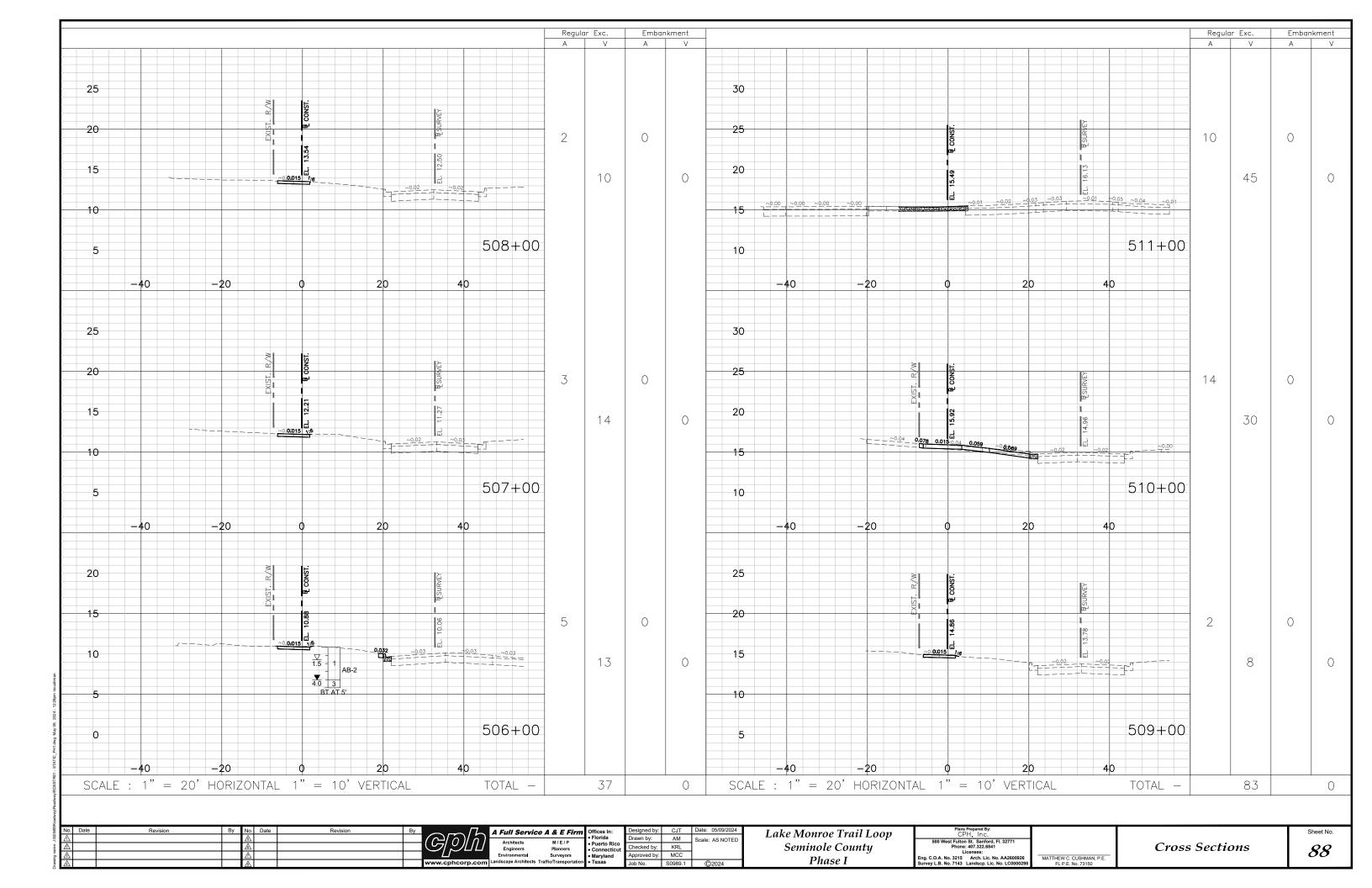
	N VALUE	
NON-GRANULAR SOILS	(blows per foot)	CONSISTENCY
SILTS, CLAYS,	0-2	VERY SOFT
MUCK, PEAT	2-4	SOFT
	4-8	FIRM
	8-15	STIFF
	15-30	VERY STIFF
	OVER 30	HARD

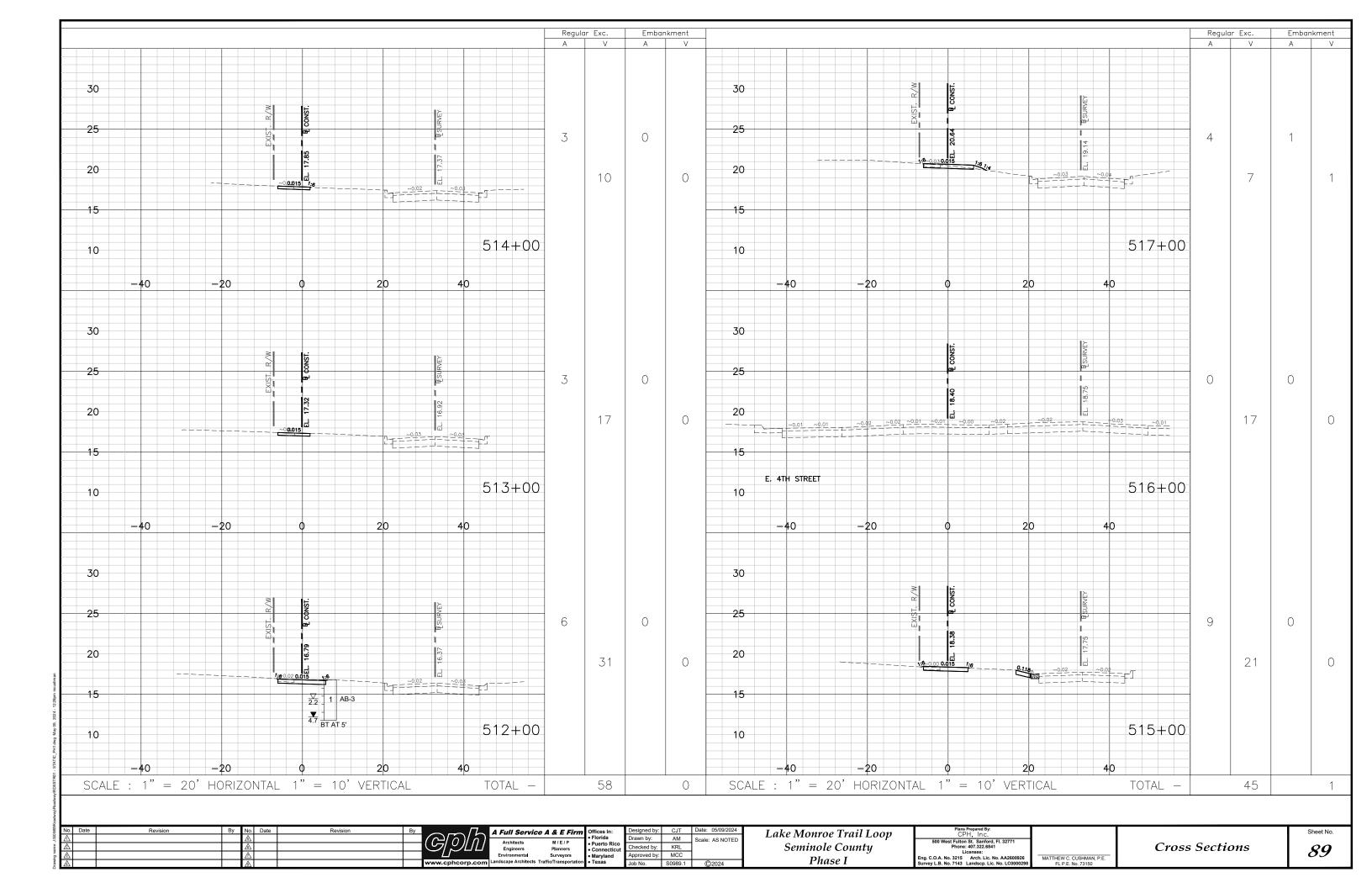
# FIGURE 5

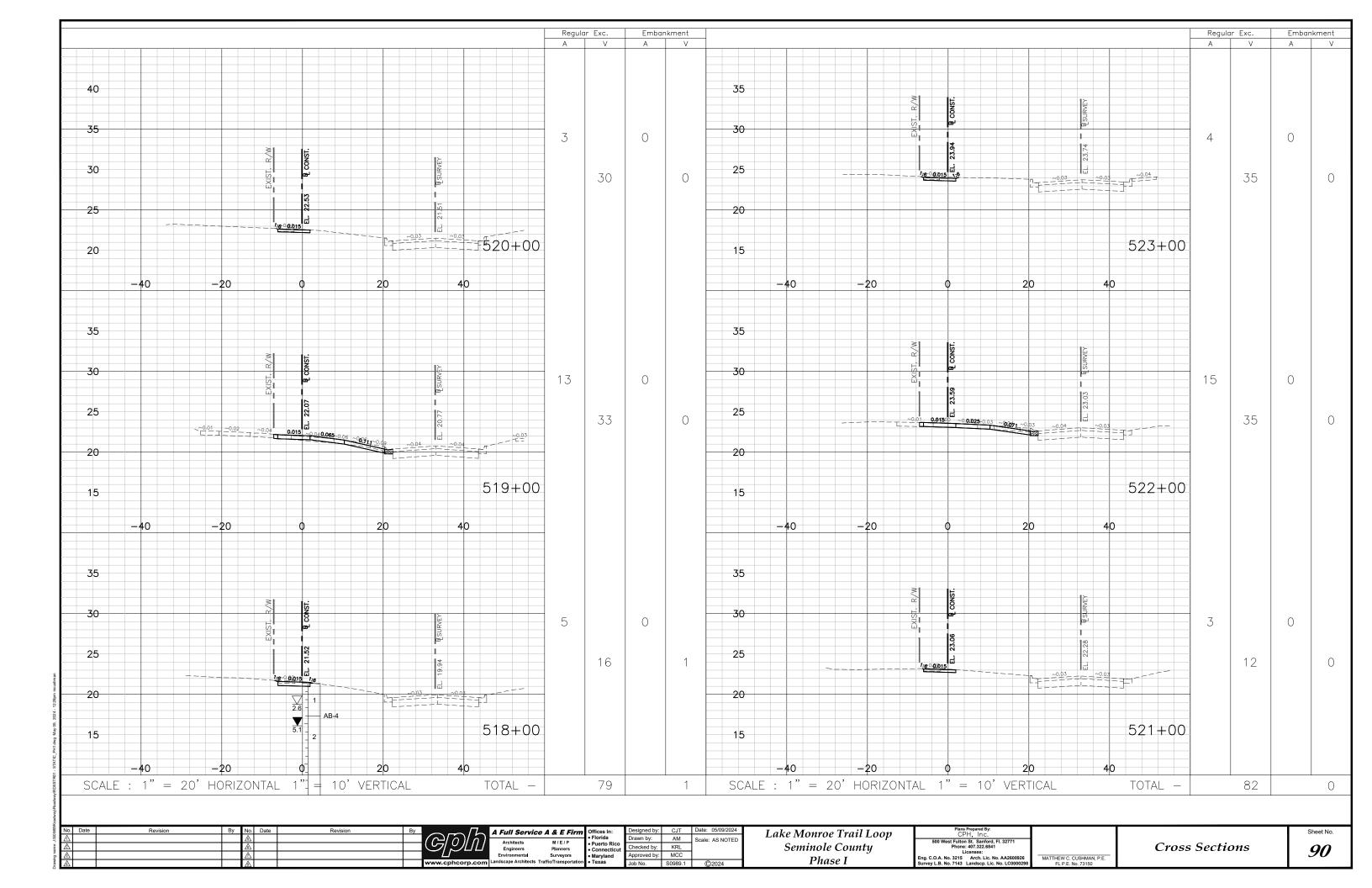
No. Date Revision By No. Date Revision By No. Date Revision By GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.

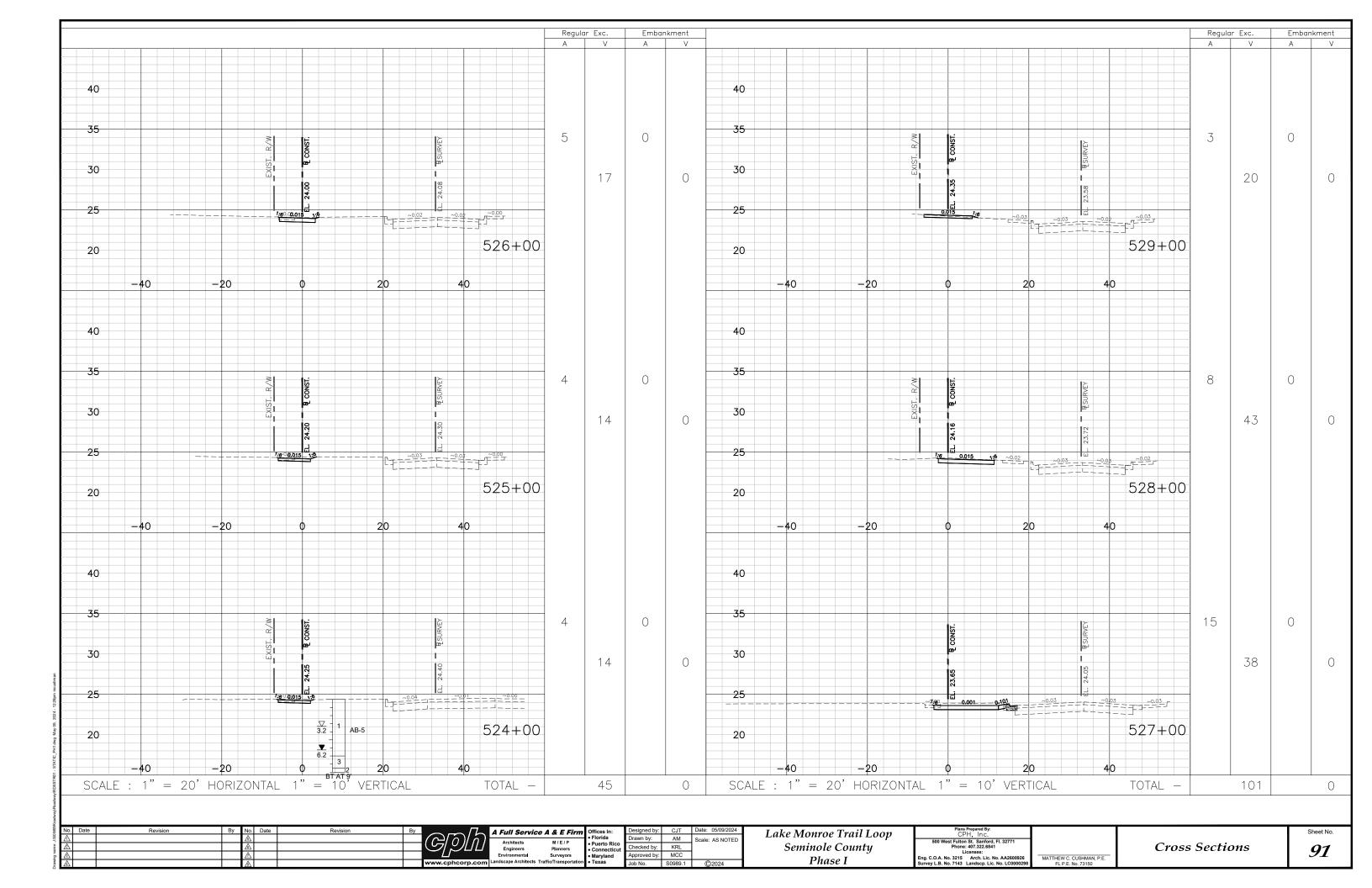
19 Lake Baldwin Lane County
Checked by: CGB
Approved by: CGB
Ap

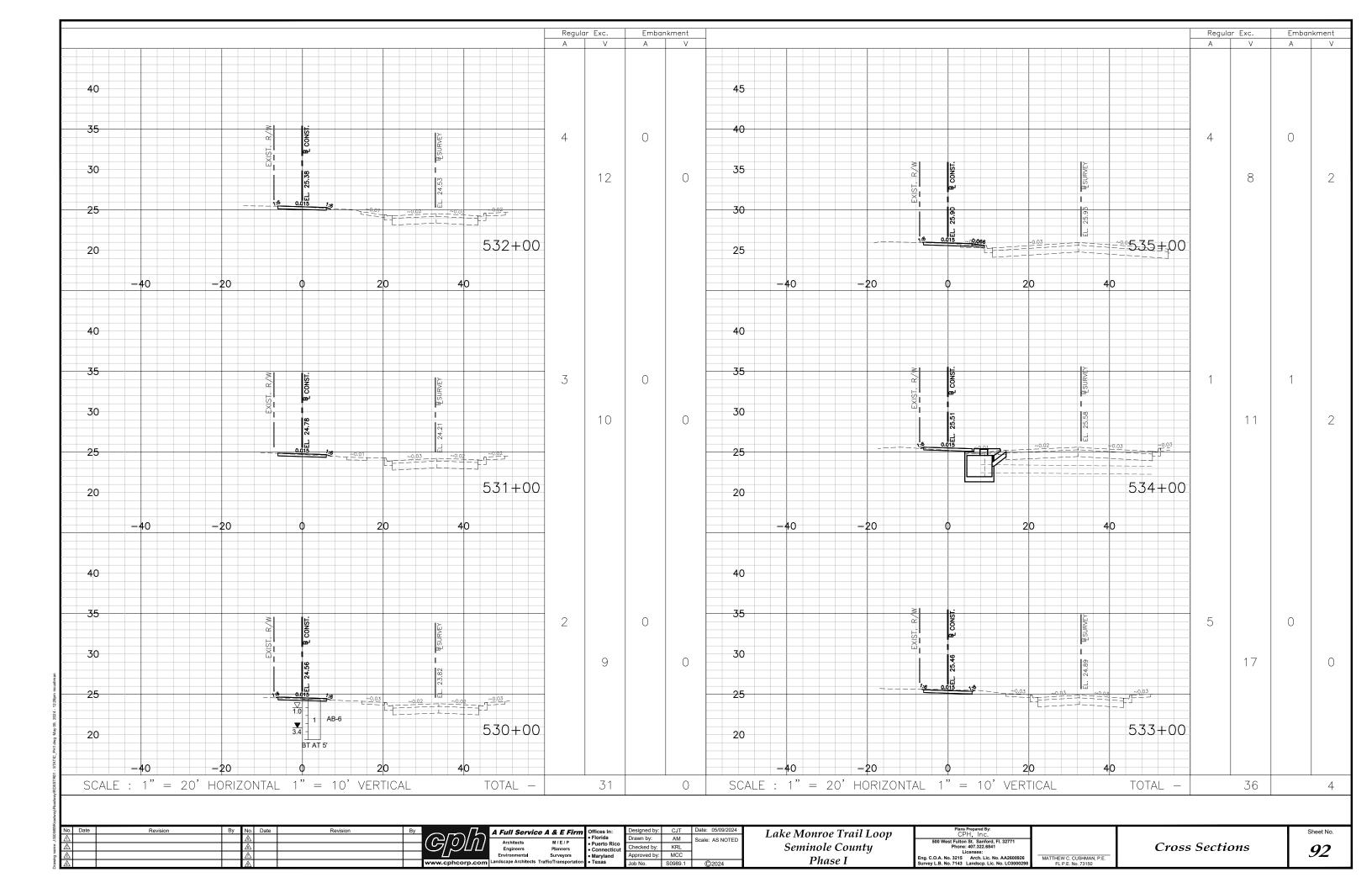


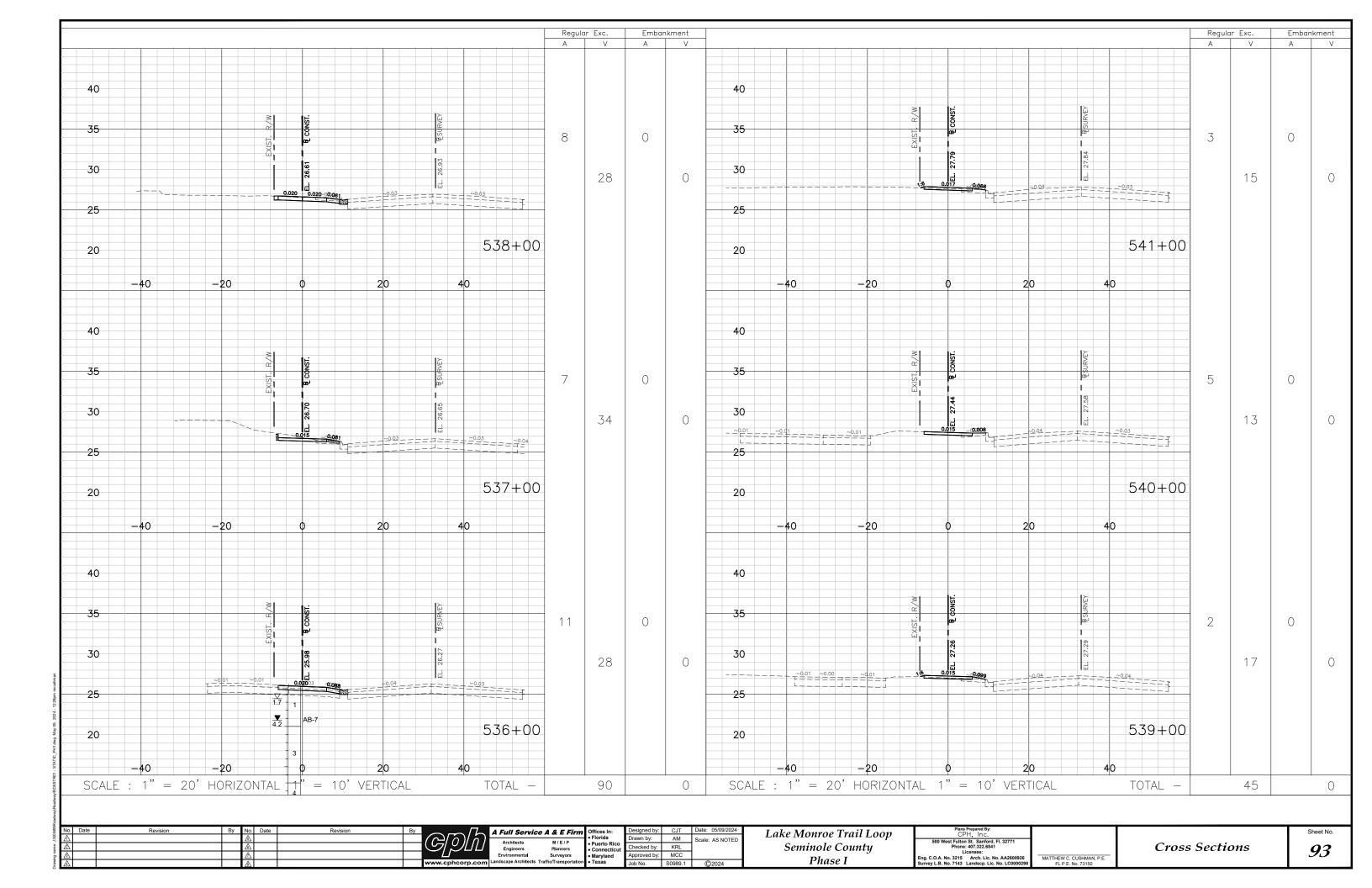


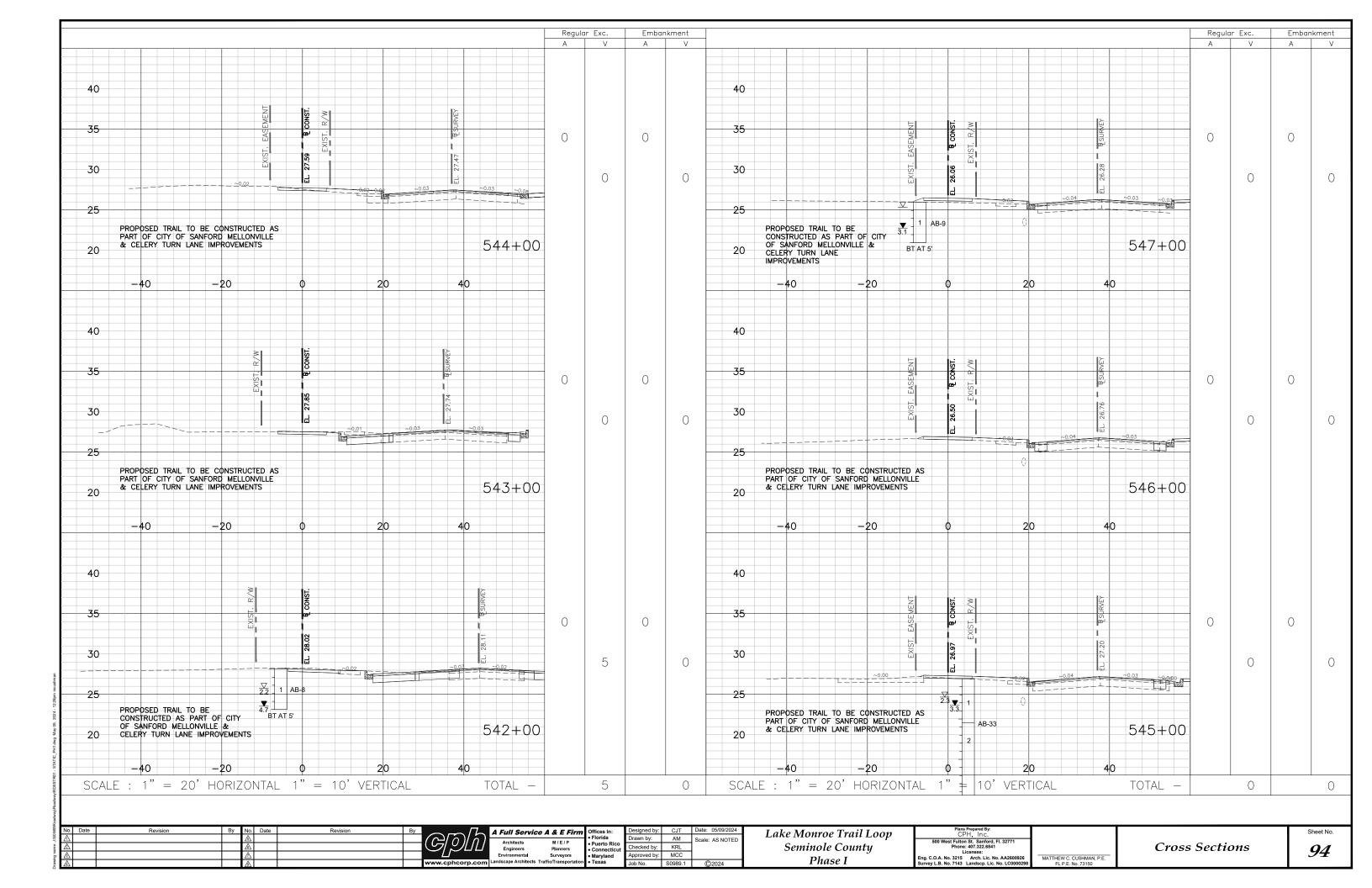


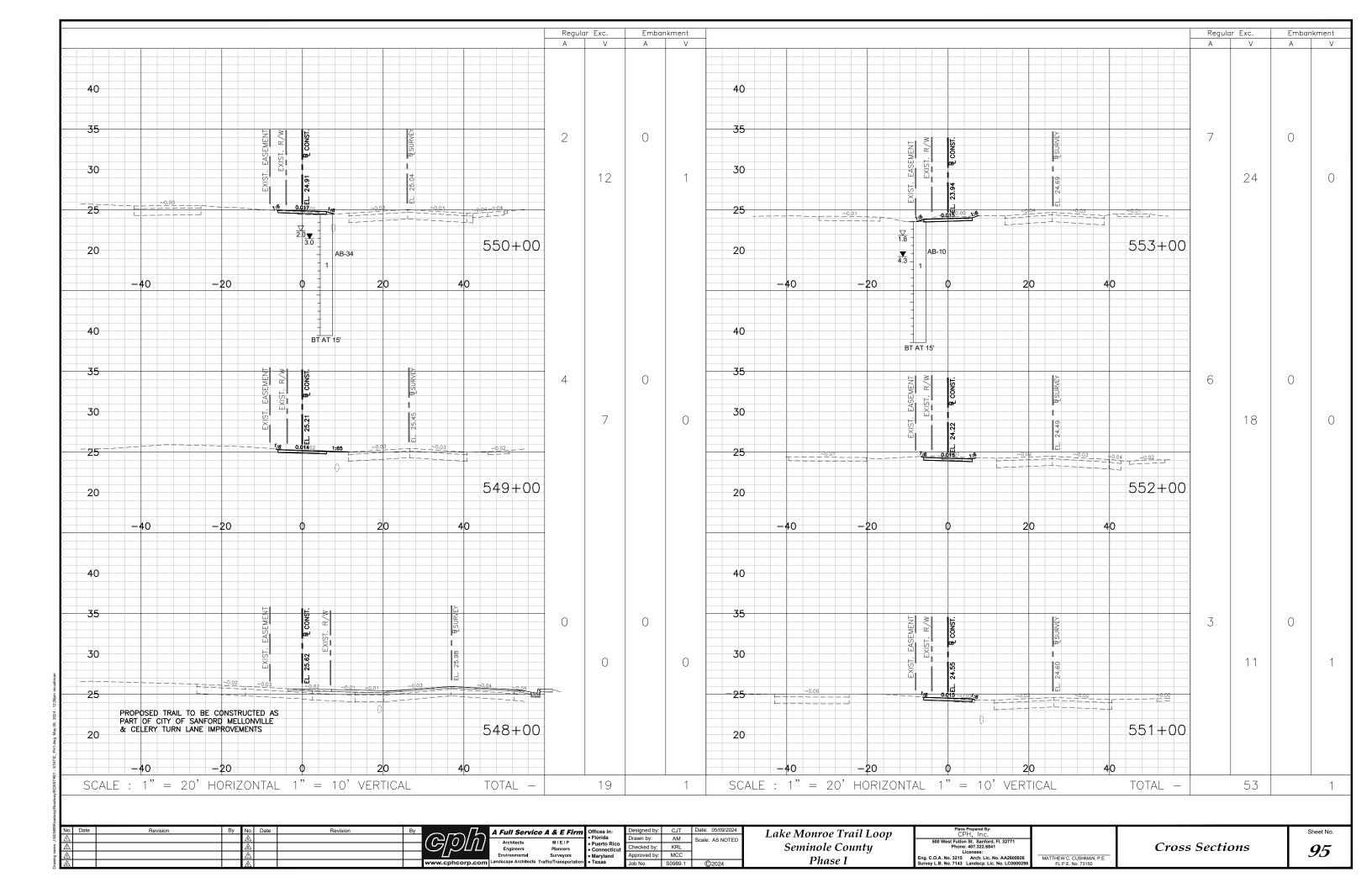


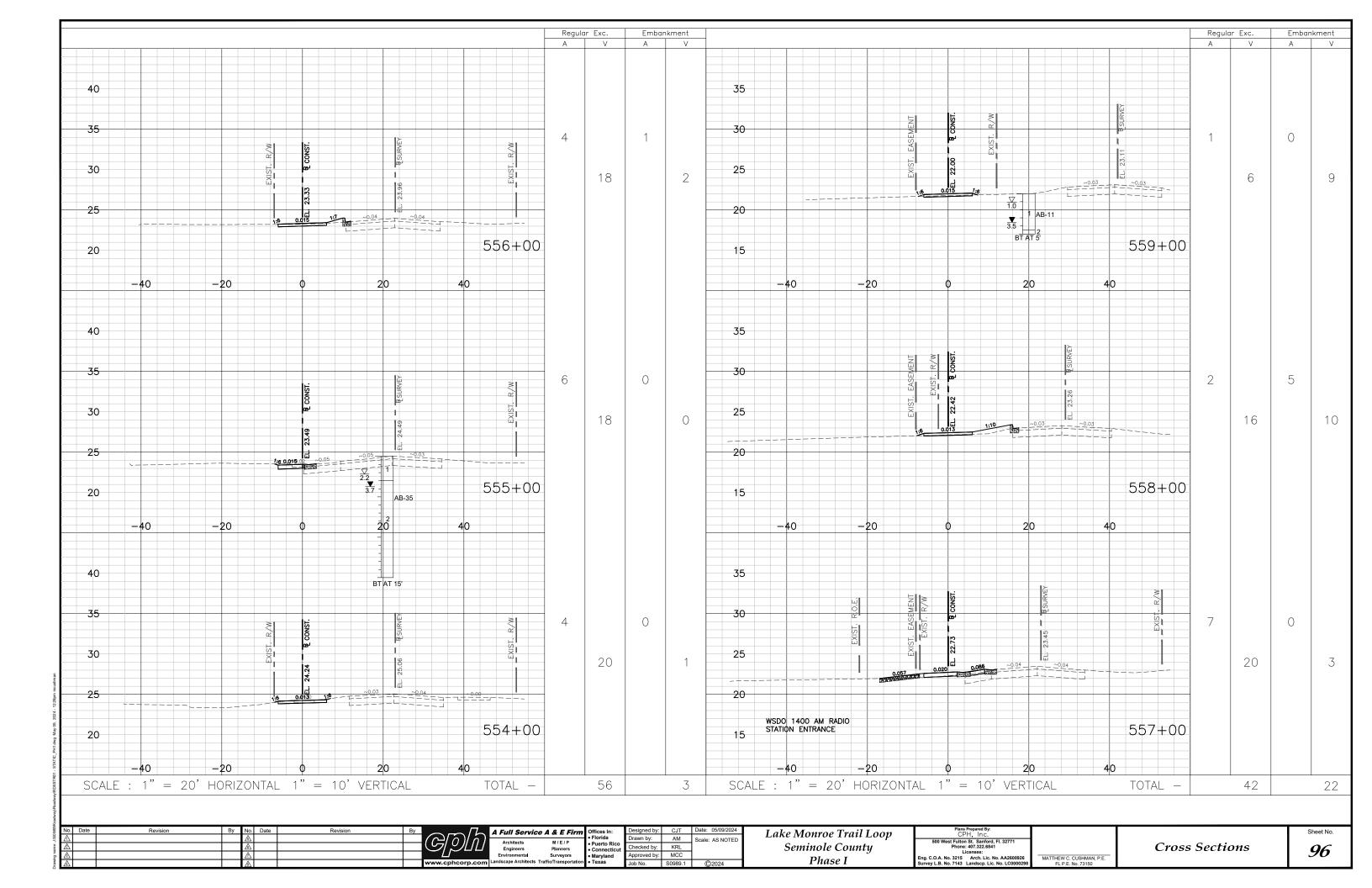


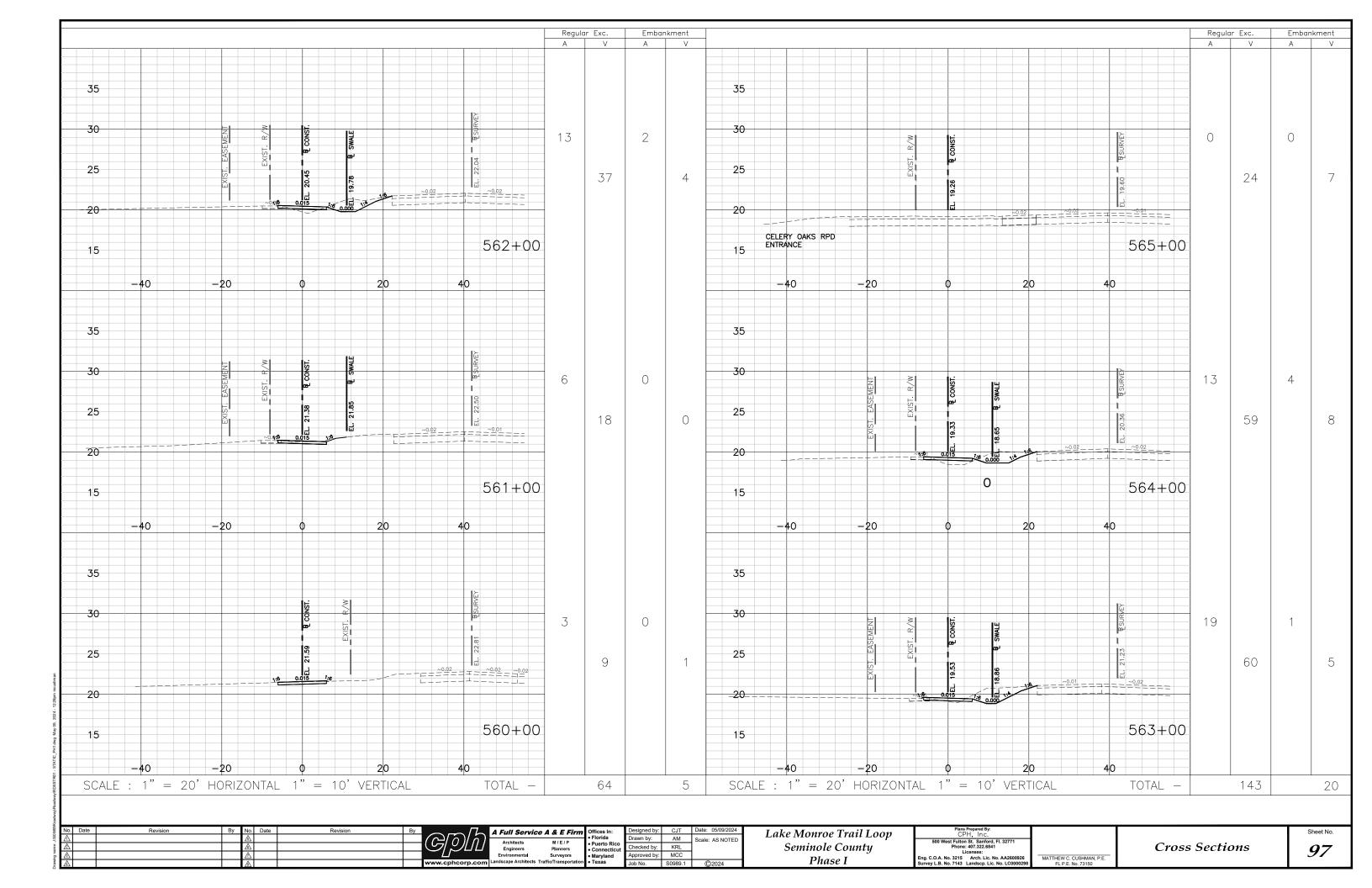


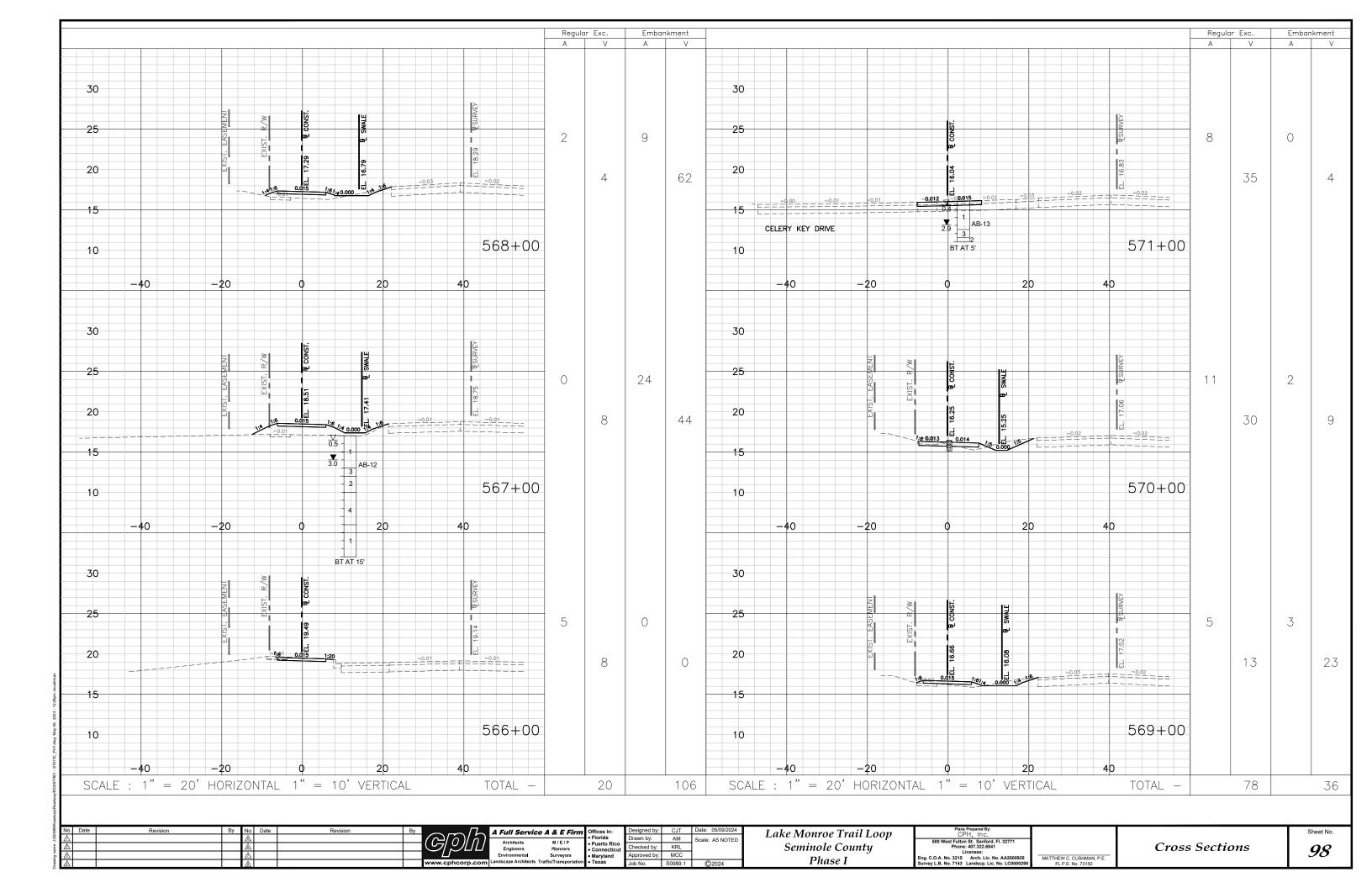


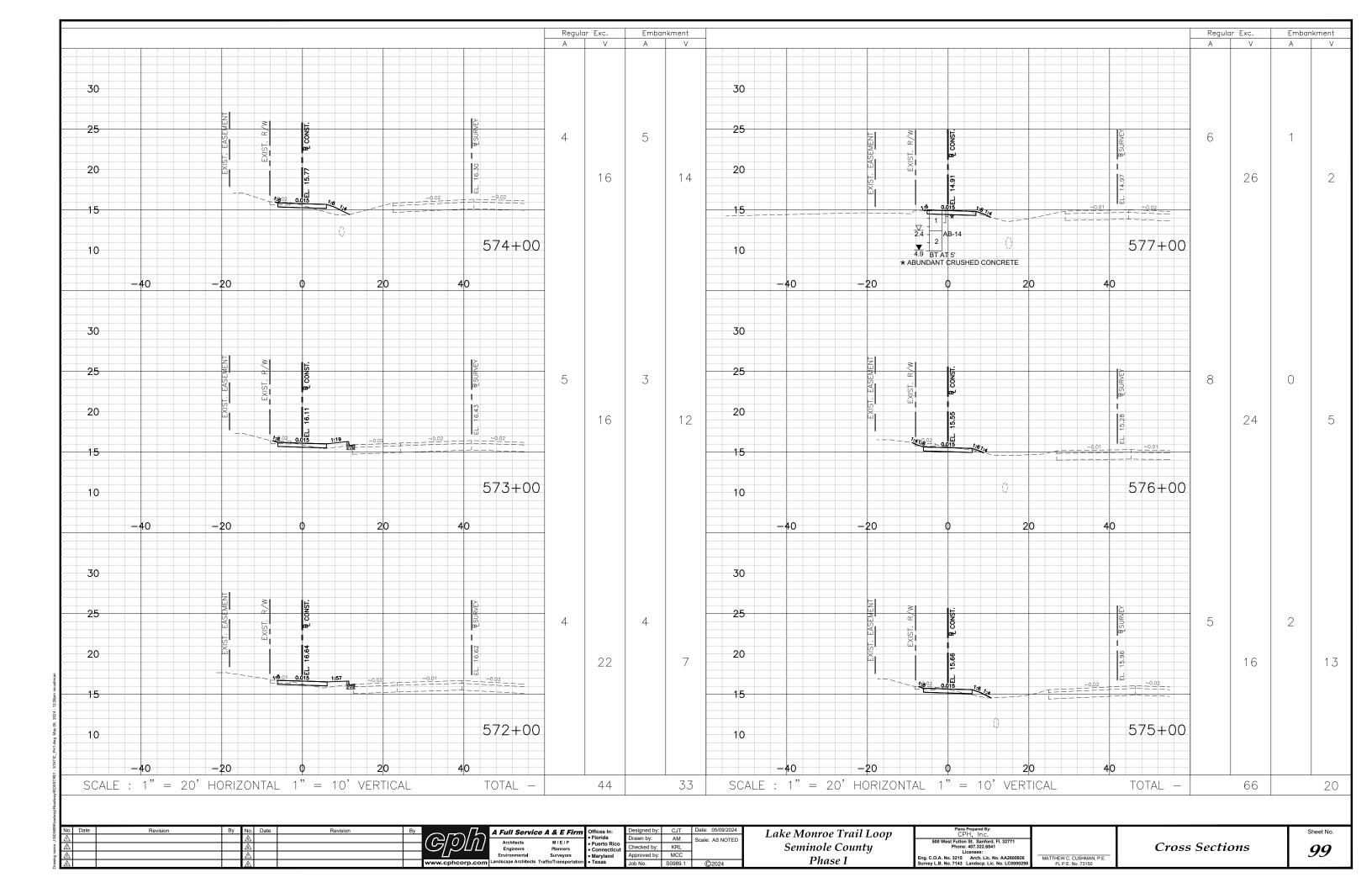


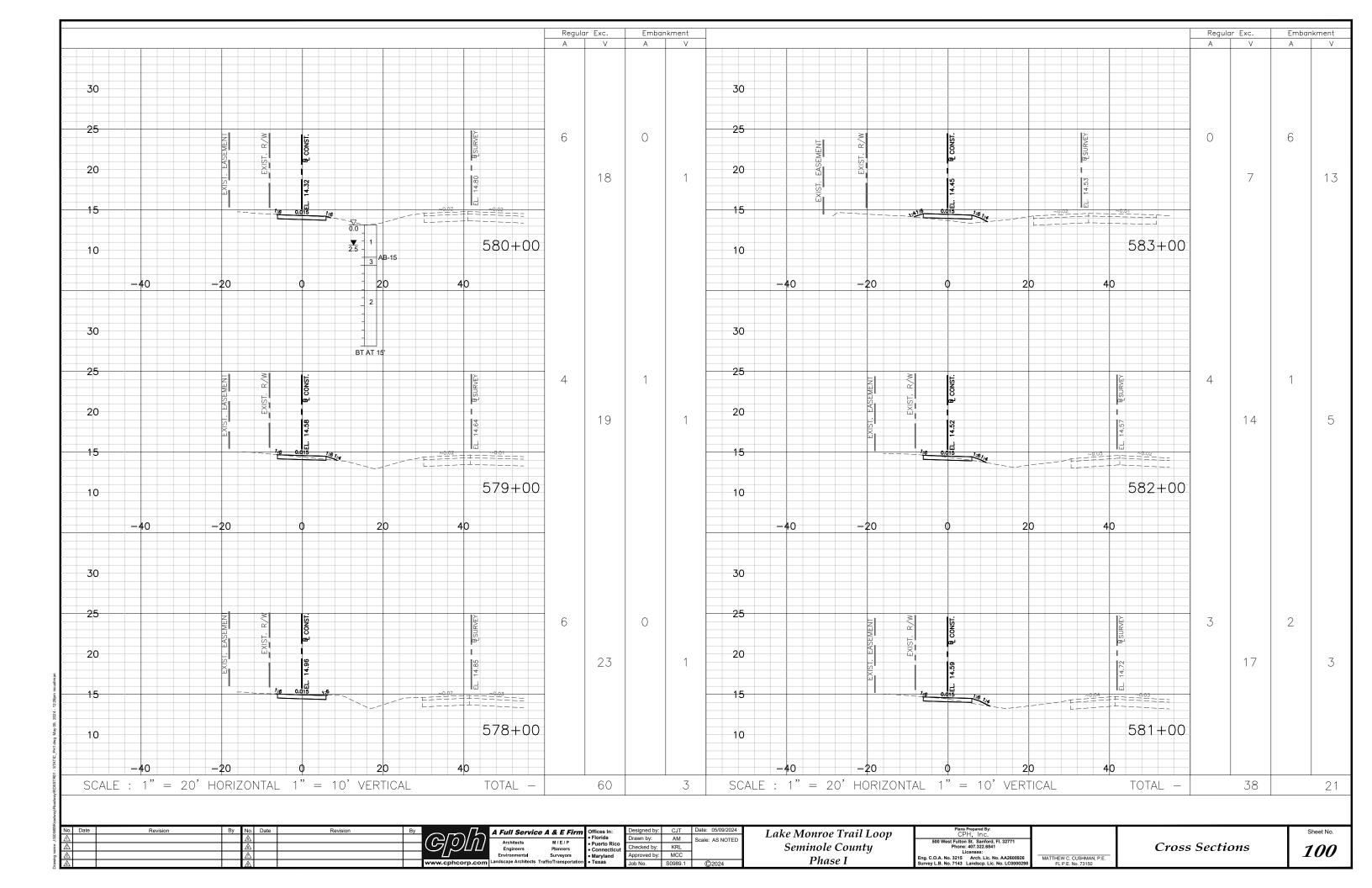


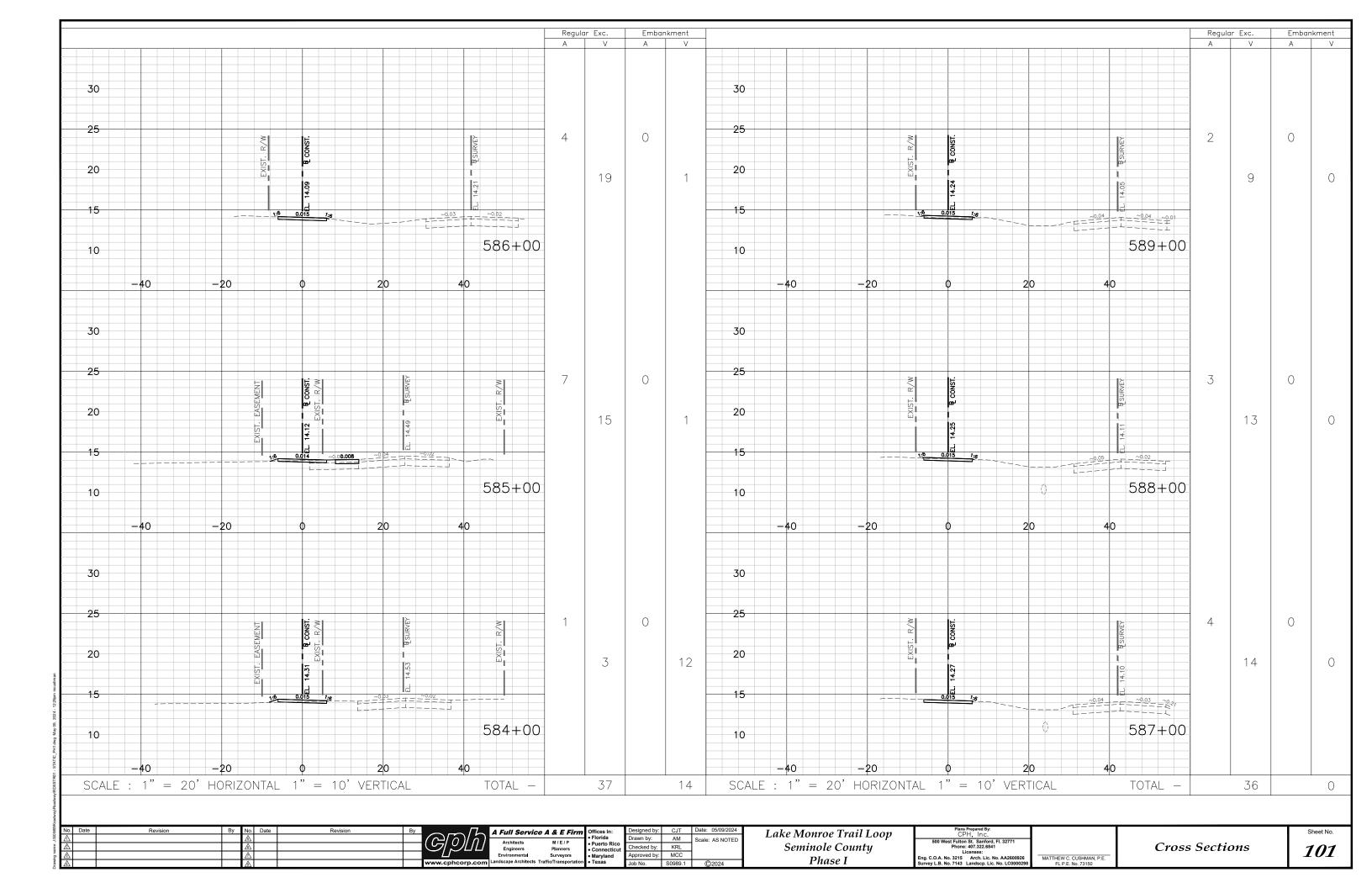


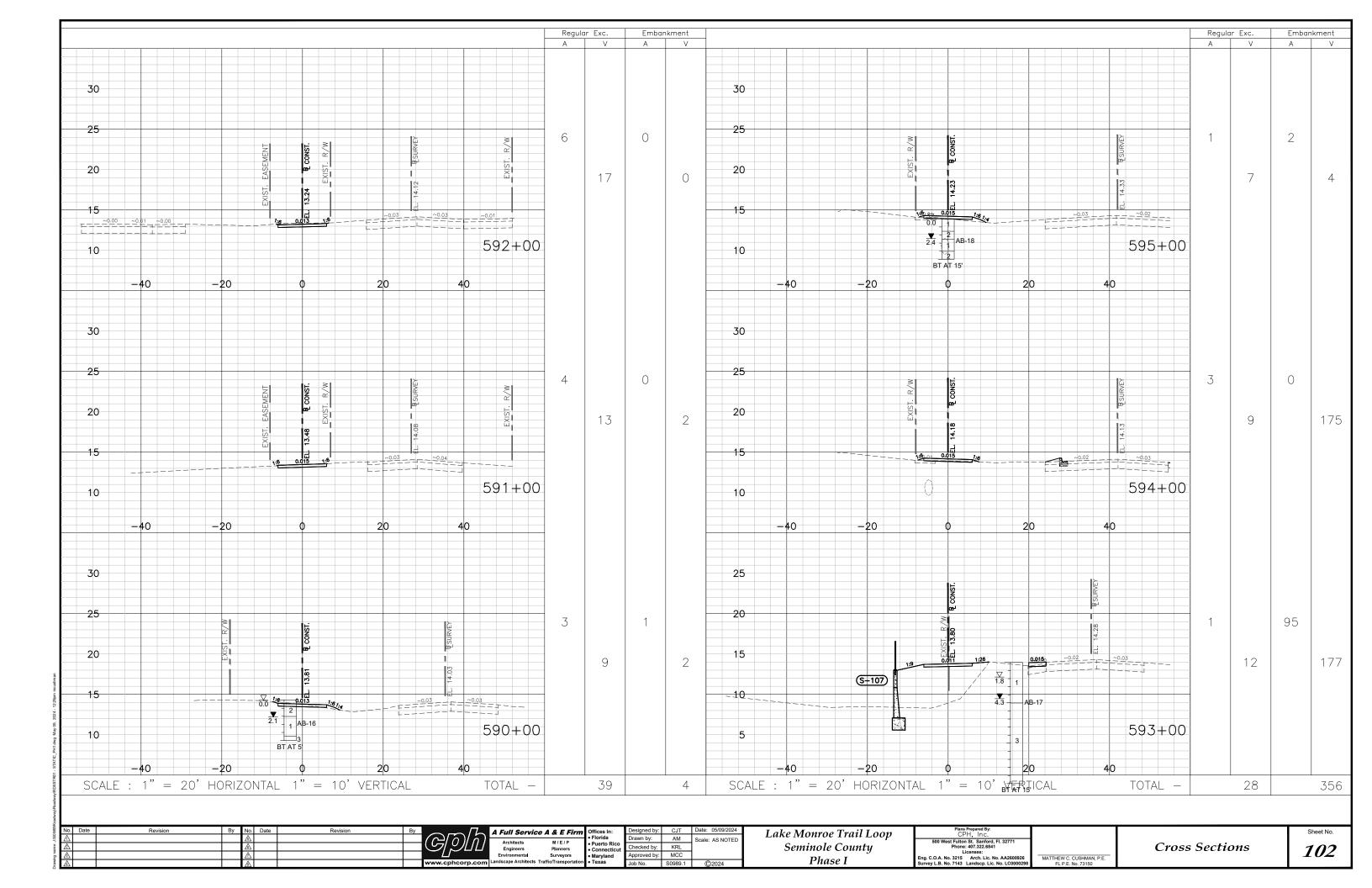


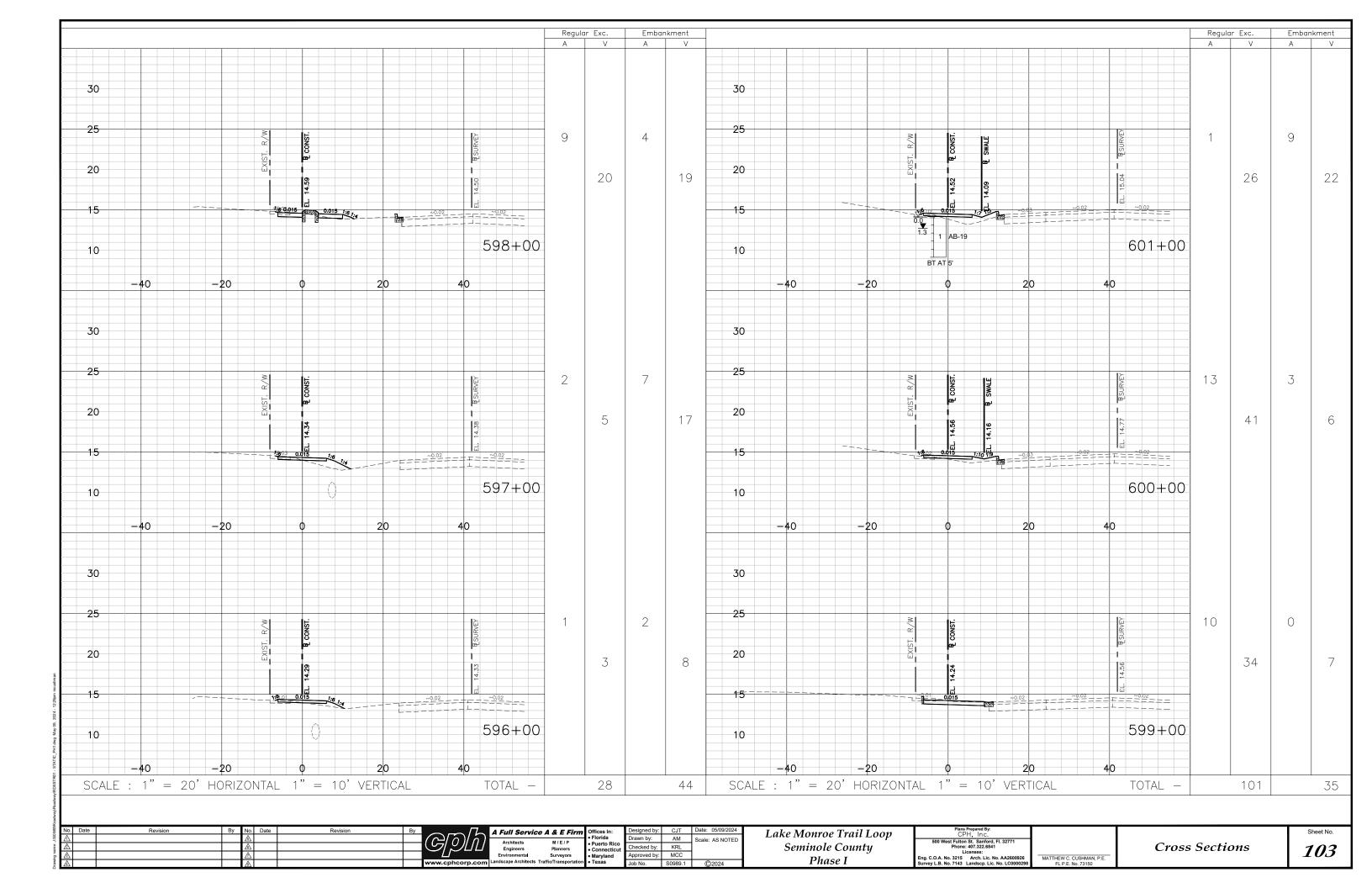


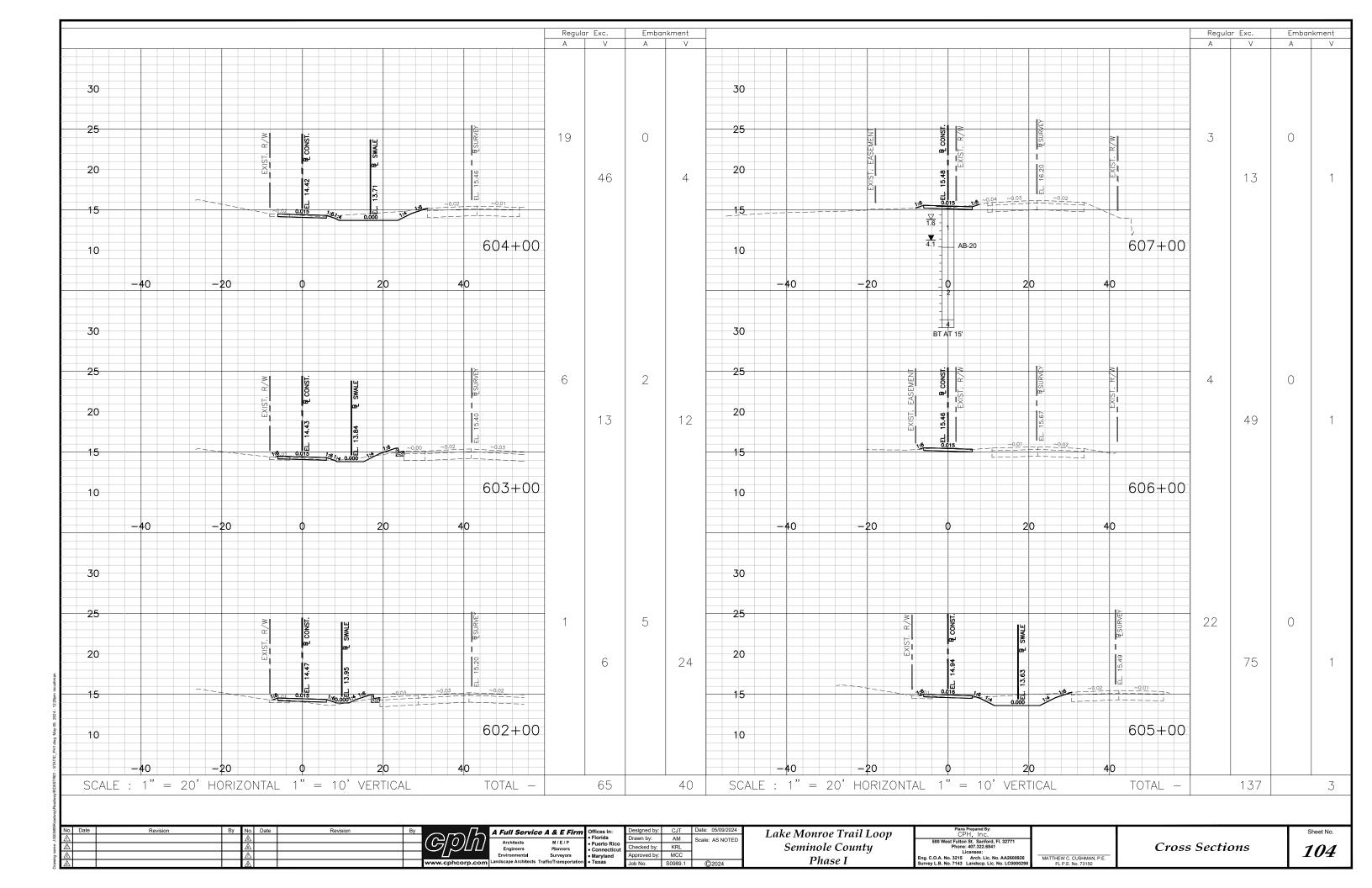


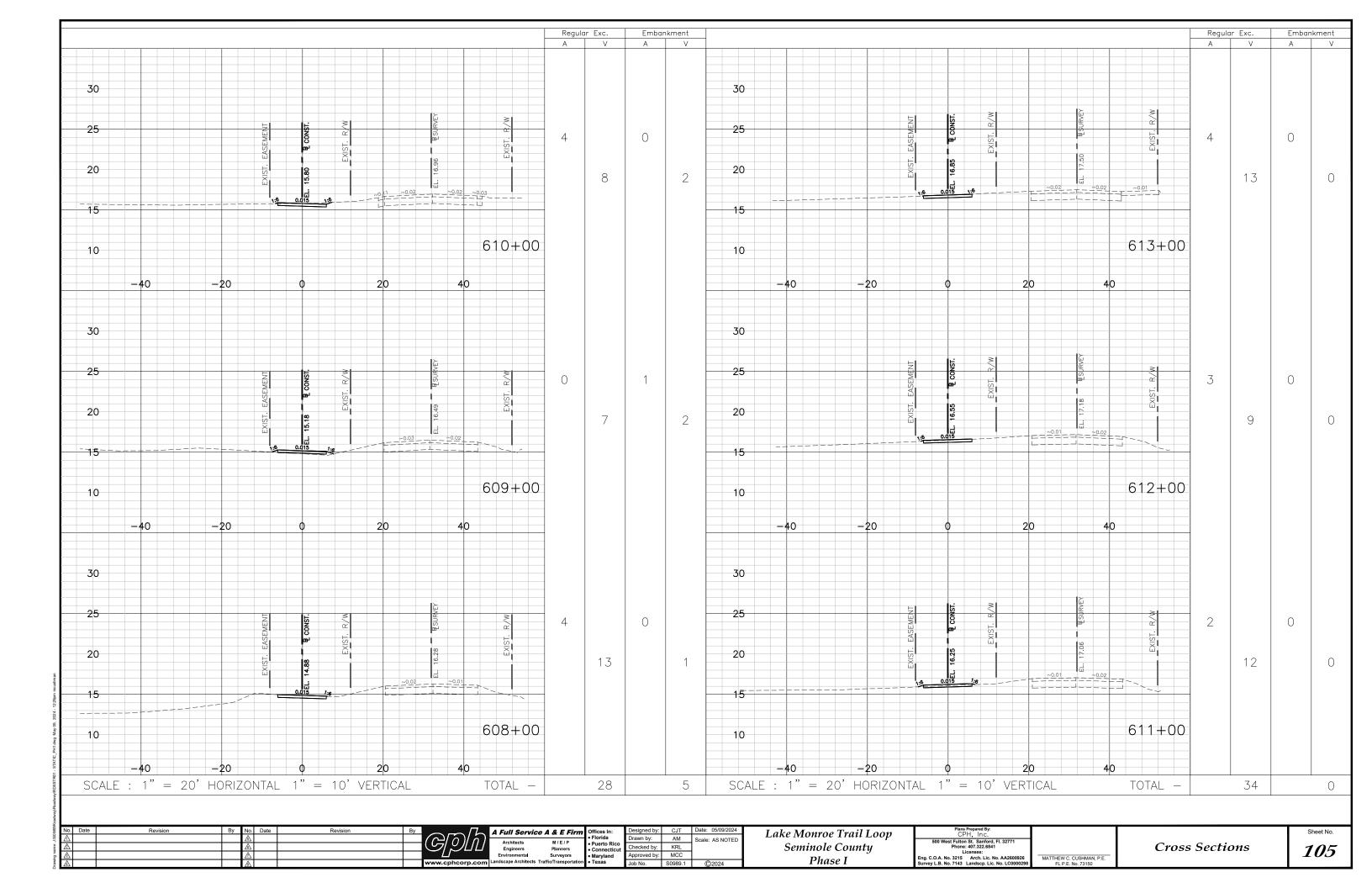


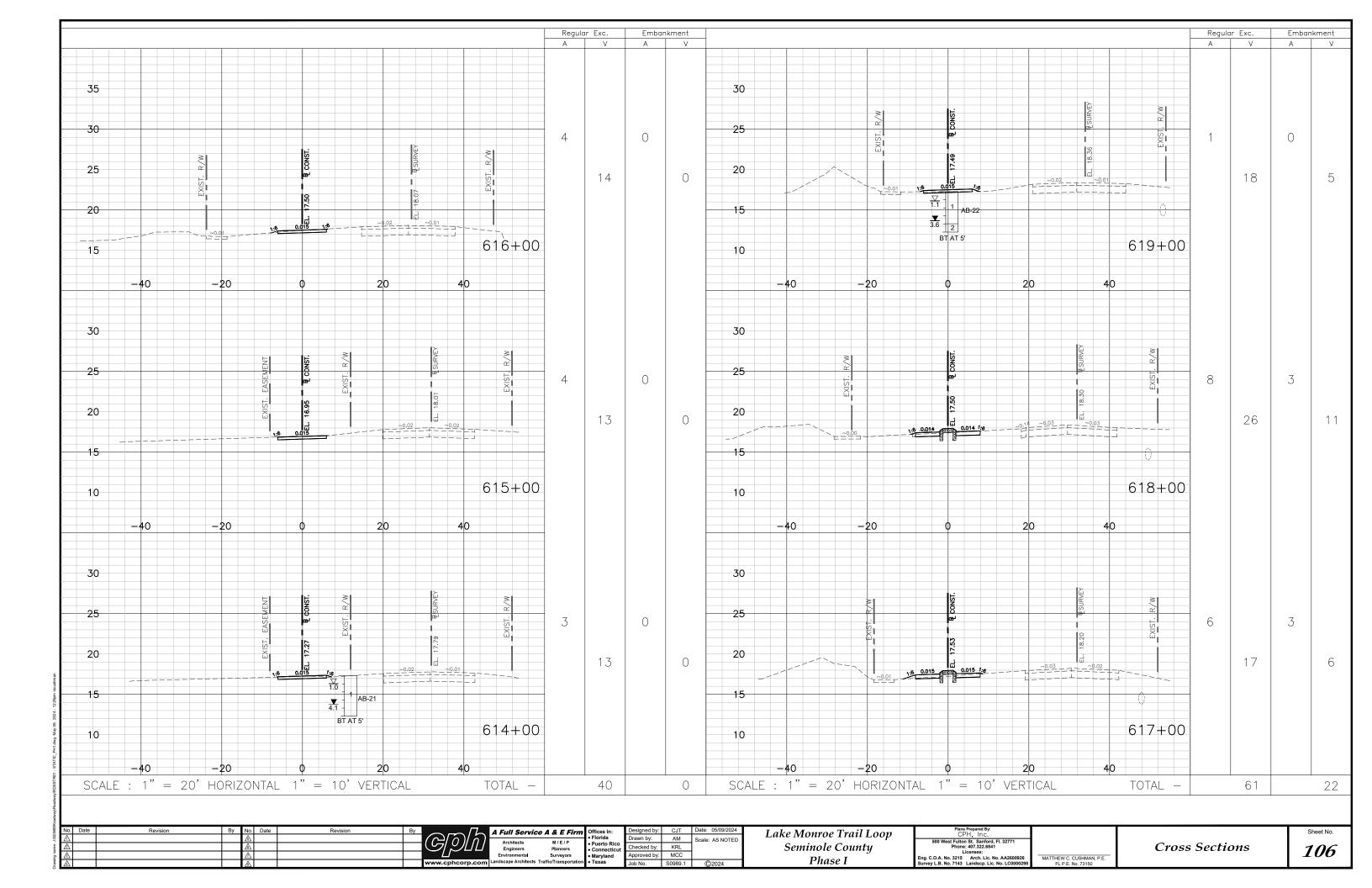


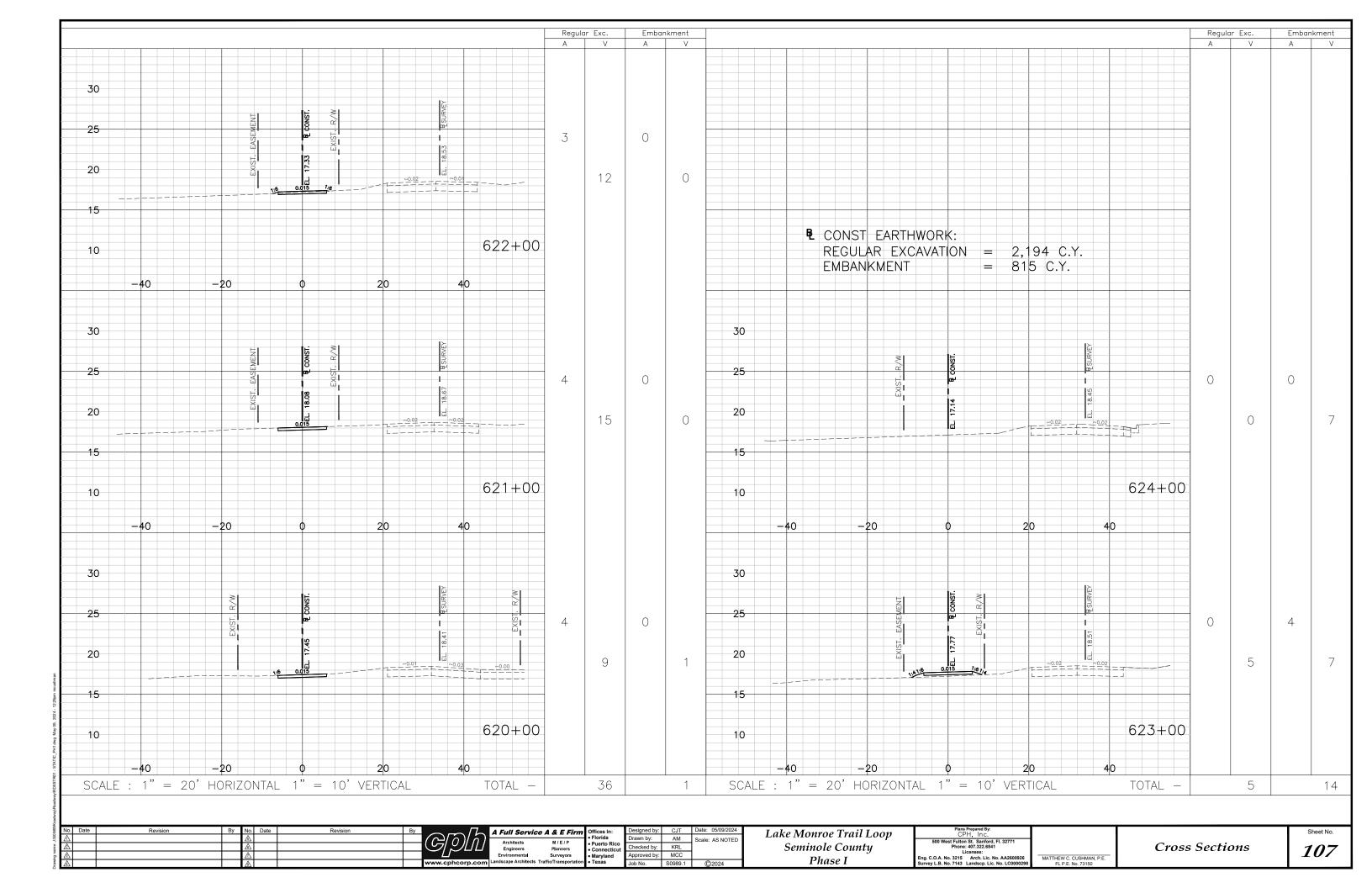












THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), THE FDOT DESIGN STANDARDS (LATEST EDITION), AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET OF THE CONSTRUCTION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

#### I. SITE DESCRIPTION

THIS PROJECT IS LOCATED IN SEMINOLE COUNTY, FLORIDA, AT SECTION 27-30 & 34 - TOWNSHIP 19 SOUTH - RANGE 31 EAST. THE PROJECT INCLUDES THE EAST HALF RIGHT-OF-WAY OF MELLONVILLE AVENUE FROM EAST 2ND STREET TO CELERY AVENUE AND THE NORTH HALF RIGHT-OF-WAY OF CELERY AVENUE FROM MELLONVILLE AVENUE TO 342' EAST OF SIPES AVENUE AT CELERY AVENUE OF SEMINOLE COUNTY, FLORIDA FOR A TOTAL PROJECT LENGTH OF 2.3377 MILES.

THE PROJECT BEGINS ON THE INTERSECTION OF E SEMINOLE BLVD & N MELLONVILLE AVE., EXTENDS SOUTH TO THE INTERSECTION OF N. MELLONVILLE AVE. & CELERY AVE. AND THEN EXTENDS EAST TO 342' EAST OF THE INTERSECTION OF CELERY AVE. & SIPES AVE.

CPH, INC. HAS PREPARED CONSTRUCTION PLANS FOR SEMINOLE COUNTY THAT INCLUDE, BUT ARE NOT LIMITED TO: PROPOSED TRAIL, STORM DRAINAGE, AND EROSION CONTROL.

# A. NATURE OF CONSTRUCTION ACTIVITY

THIS PROJECT CONSISTS OF CONSTRUCTION OF A PROPOSED TRAIL.

#### B. MAJOR SOIL DISTURBING ACTIVITIES

THE MAJOR SOIL DISTURBING ACTIVITIES INCLUDE THE FOLLOWING:

- 1. CLEAR AND GRUB WITHIN THE LIMITS OF CONSTRUCTION. (WITH THE EXCEPTION OF TREES AS NOTED IN THE PLANS AND GENERAL NOTES).
- 2. CLEARING AND GRUBBING, EARTHWORK EXCAVATION AND EMBANKMENT, AND STORM CULVERT CONSTRUCTION
- 3. EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF A TRAIL.
- 4. PROVIDE FINAL GRADING WITHIN THE CONSTRUCTION AREAS.

#### C. PROJECT AREA

TOTAL PROJECT AREA =  $\frac{4.75 \text{ ACRES}}{4.75 \text{ ACRES}}$ 

# D. RUNOFF DATA

## E. EXISTING SOIL OR WATER QUALITY DISCHARGE DATA

#### **SOILS**

- THE U.S.D.A. SOIL SURVEY OF SEMINOLE COUNTY, FLORIDA IDENTIFIES 13 SOIL TYPES AS OCCURRING ON THE SUBJECT PROJECT AREA. A SUMMARY OF THE CHARACTERISTICS OF THESE SOIL TYPES, AS DESCRIBED BY THE NATURAL RESOURCE CONSERVATION SERVICE (NRCS, FORMERLY SOIL CONSERVATION SERVICE (SCS)) SOIL SURVEY
- GEOGRAPHIC (SSURGO) DATABASE FOR FLORIDA ARE AS FOLLOWS:
- ARENTS
- BASINGER FINE SAND
- EAU GALLIE FINE SAND
- DELRAY FINE SAND
- FELDA MUCKY FINE SAND
- IMMOKALEE FINE SAND
- MALABAR FINE SAND
- MANATEE MUCKY FINE SAND
- MYAKKA FINE SAND
- PINEDA-PINEDA, WET, FINE SAND
- ST. JOHNS FINE SAND
- URBAN LAND
- WABASSSO FINE SAND

### DRAINAGE AREA FOR EACH OUTFALL

RUNOFF THROUGHOUT THE PROJECT IS CONVEYED BY A COMBINATION OF PROPOSED AND EXISTING MITERED END SECTIONS, HEADWALLS, MANHOLES, AND DITCH BOTTOM INLETS TO LAKE MONROE.

#### D. SITE MAP

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS.

#### E. <u>RECEIVING WATERS</u>

RUNOFF FROM DRAINAGE BASINS WITHIN THE PROJECT AREA TO BE DISCHARGED INTO EXISTING STORM SYSTEM TO DEEP CREEK DIVERSION CANAL AND LAKE ASHBY CANAL, ULTIMATELY TO THE ST. JOHNS RIVER.

# II. CONTROLS

SEQUENCE OF SOIL DISTURBING ACTIVITIES AND IMPLEMENTATION OF CONTROLS:

- 1. INSTALLATION OF EROSION AND SEDIMENTATION PERIMETER CONTROLS AS SPECIFIED IN THE PLANS AND THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN.
- 2. CLEAR AND GRUB WITHIN LIMITS OF CONSTRUCTION.
- 3. CONSTRUCT DRAINAGE, STABILIZATION, BASE, ROADWAY SURFACE, DRIVEWAYS, TRAIL & CURB.
- 4. PROVIDE FINAL GRADING FOR CONSTRUCTION AREAS.
- 5. INSTALL FINAL SODDING.
- 6. REMOVE ALL EROSION AND SEDIMENT CONTROLS.

THE CONTRACTOR, WITH THE ENGINEER'S APPROVAL, MAY MODIFY THE SEQUENCE OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE STORMWATER POLLUTION PREVENTION PLAN.

ALL CONTROLS SHALL BE CONSISTENT WITH THE PERFORMANCE STANDARDS FOR EROSION AND SEDIMENT CONTROL AND STORMWATER TREATMENT AS SET FORTH IN RULE 62-40.432, F.A.C., THE APPLICABLE ENVIRONMENTAL RESOURCE PERMITTING REQUIREMENTS OF THE FDEP AND/OR THE ST. JOHN'S RIVER WATER MANAGEMENT DISTRICT (SJRWMD), AND THE GUIDELINES CONTAINED IN THE FLORIDA DEVELOPMENT MANUAL: A GUIDE TO SOUND LAND AND WATER MANAGEMENT (FDEP, 1988) AND ANY SUBSEQUENT AMENDMENTS.

#### TEMPORARY STABILIZATION:

DISTURBED PORTIONS OF THE SITE (E.G., EMBANKMENTS, DITCHES, AND SWALES) SHALL BE STABILIZED WITH TEMPORARY GRASSING AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN SEVEN (7) DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.

Revision	Ву	No.	Date	Revision	Ву	
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o it	Designed by:	CJT	Date: 05/09/2024	Г
	Drawn by:	AM	Scale: AS NOTED	
	Checked by:	KRL		
	Approved by:	MCC		
	Job No.	S0989.1	©2024	

### II. CONTROLS - CONTINUED

#### PERMANENT STABILIZATION:

DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY PERMANENTLY CEASES SHALL BE STABILIZED WITH SOD AS SPECIFIED IN THE TYPICAL SECTION AS SOON AS PRACTICABLE, BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER THE LAST CONSTRUCTION ACTIVITY.

- A. EROSION AND SEDIMENT CONTROLS:
- STABILIZATION PRACTICES

TEMPORARY SODDING TEMPORARY GRASSING

PERMANENT PLANTING, SODDING, OR SEEDING TEMPORARY MULCHING ARTIFICIAL COVERING

PRESERVATION OF NATURAL RESOURCES OTHER

(II) STRUCTURAL PRACTICES:

SAND BAGGING

BUFFER ZONES

- SILT FENCES
- SYNTHETIC BALES

DIVERSION INTERCEPTOR, OR PERIMETER DITCHES

PIPE SLOPE DRAINS

ROCK BEDDING AT CONSTRUCTION EXIT

TIMBER BEDDING AT CONSTRUCTION EXIT

- DITCH LINER
- SEDIMENT TRAPS
- SEDIMENT BASINS
- STORM INLET SEDIMENT TRAP
- STONE OUTLET STRUCTURES CURB AND GUTTERS
- STORM SEWERS
- VELOCITY CONTROL DEVICES
- TURBIDITY BARRIER
- RIP RAP
- DITCH BLOCK

OTHER

WHEN A SEDIMENTATION TRAP OR BASIN IS NOT ATTAINABLE, THE ROADSIDE SWALE AND VEGETATED SWALE RETENTION AREAS MAY BE USED AS A TEMPORARY SEDIMENTATION BASIN DURING CONSTRUCTION IF THE ORIGINAL DESIGN FUNCTION AND CAPACITY OF THE SWALES ARE NOT COMPROMISED. BEFORE COMPLETION OF CONSTRUCTION, THE SEDIMENTS IN THE ROADSIDE SWALES SHALL BE REMOVED AND PERMANENT EROSION CONTROL SHALL BE IN PLACE SUCH AS SODDING OR SEED AND MULCH.

(III) NON-STORMWATER DISCHARGE (INCLUDING SPILL REPORTING)

NO NON-STORMWATER DISCHARGES ARE ANTICIPATED. WHEN THE CONTRACTOR ENCOUNTERS A SPILL. CONSTRUCTION WILL STOP AND WORK WILL NOT RESUME UNTIL DIRECTED BY THE COUNTY ENGINEER. DISPOSITION OF HAZARDOUS WASTE WILL BE MADE IN ACCORDANCE WITH ANY REQUIREMENTS AND REGULATIONS OF ANY LOCAL, STATE, OR FEDERAL AGENCY HAVING JURISDICTION. THE CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THIS PORTION OF THE SWPPP IN THE SECTION 104 EROSION CONTROL PLANS.

#### II. CONTROLS - CONTINUED

- EROSION AND SEDIMENT CONTROLS: CONTINUED
- (IV) CONCRETE TRUCKS

CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH INTO SWALES OR STORMWATER INLETS. CONTRACTOR SHALL COORDINATE WITH THE COUNTY ENGINEER OR AUTHORIZED REPRESENTATIVE TO DETERMINE APPROPRIATE WASH OUT AREA ON COUNTY PROPERTY. THE CONTRACTOR SHALL REMOVE WASHED OUT CONCRETE AND REPAIR AREA TO PRE-CONSTRUCTION CONDITION OR BETTER.

#### III. MAINTENANCE

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL POLLUTION PREVENTION CONTROLS. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE THE EFFECTIVENESS OF EROSION, SEDIMENTATION, TURBIDITY, AND POLLUTION CONTROL MEASURES. REMEDIAL ACTION SHALL BE PERFORMED IMMEDIATELY.

## IV. INSPECTION

ALL CONTROLS SHALL BE INSPECTED ONCE EVERY SEVEN (7) CALENDAR DAYS THROUGHOUT THE CONSTRUCTION PERIOD BY THE CONTRACTOR, AS WELL AS WITHIN 24 HOURS OF ONE HALF INCH (0.5 INCHES) OR MORE RAIN, UNTIL THE NOTICE OF TERMINATION IS FILED WITH THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP). THE CONTRACTOR WILL USE FDOT FORM 650-040-03 TO REPORT ALL INSPECTION FINDINGS AND CORRECTIVE ACTIONS TAKEN AS A RESULT OF THE INSPECTION. THE CONTRACTOR WILL SIGN EACH INSPECTION REPORT AND SUBMIT IT WEEKLY TO THE COUNTY ENGINEER. THE CONTRACTOR WILL MAKE AN INSPECTION, MAINTENANCE, AND REPAIRS REPORT PER EACH INSPECTION. BASED ON INSPECTION RESULTS, THE CONTROLS SHALL BE REVISED PER THE INSPECTION REPORTS. THE CONTRACTOR SHALL PROVIDE AN FDEP QUALIFIED STORMWATER MANAGEMENT INSPECTOR TO INSPECT THE DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN STABILIZED, THE AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, THE STRUCTURAL CONTROL MEASURES, AND THE LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. A REPORT SHALL BE ATTACHED TO THE DAILY QUALITY CONTROL REPORT. INCLUDED IN THE REPORT WILL BE A WRITTEN SUMMARY OF THE SCOPE OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE SWPPP, THE NAME OF THE INSPECTOR, THE DATE, AND THE ACTIONS AND MODIFICATIONS TAKEN TO CORRECT ANY INSUFFICIENCIES IDENTIFIED DURING THE INSPECTION. THE REPORT SHALL IDENTIFY ANY INCIDENT OF NON-COMPLIANCE. IF NO INCIDENTS OF NON-COMPLIANCE ARE OBSERVED DURING THE INSPECTION, THE REPORT SHALL CONTAIN A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE SWPPP AND ALL ENVIRONMENTAL PERMITS.

## **CONTRACTOR CERTIFICATION:**

" I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND AND SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN THEREUNDER.

NAME:	_ TITLE:
CONTRACTING FIRM:	_ ADDRESS:
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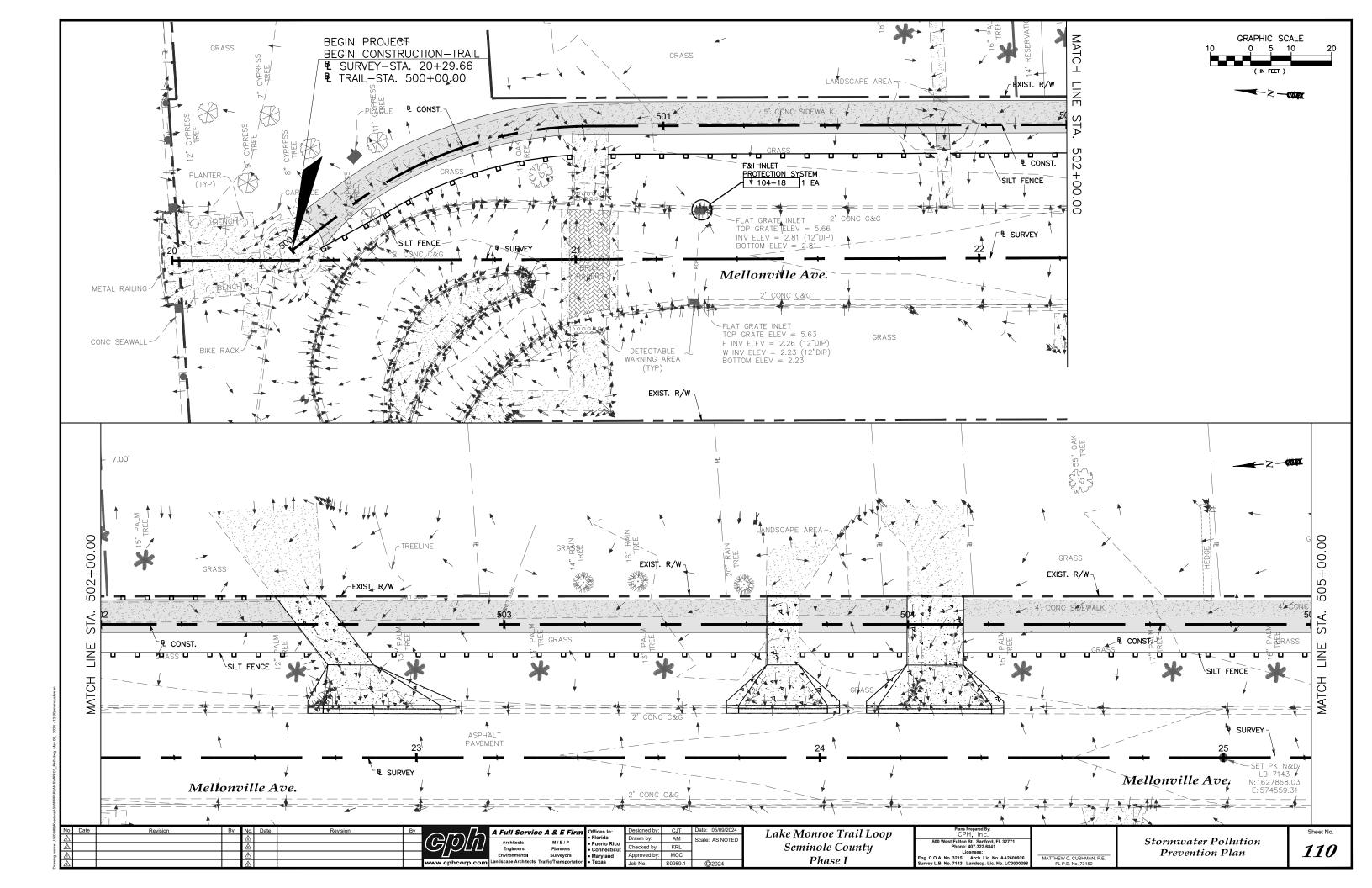
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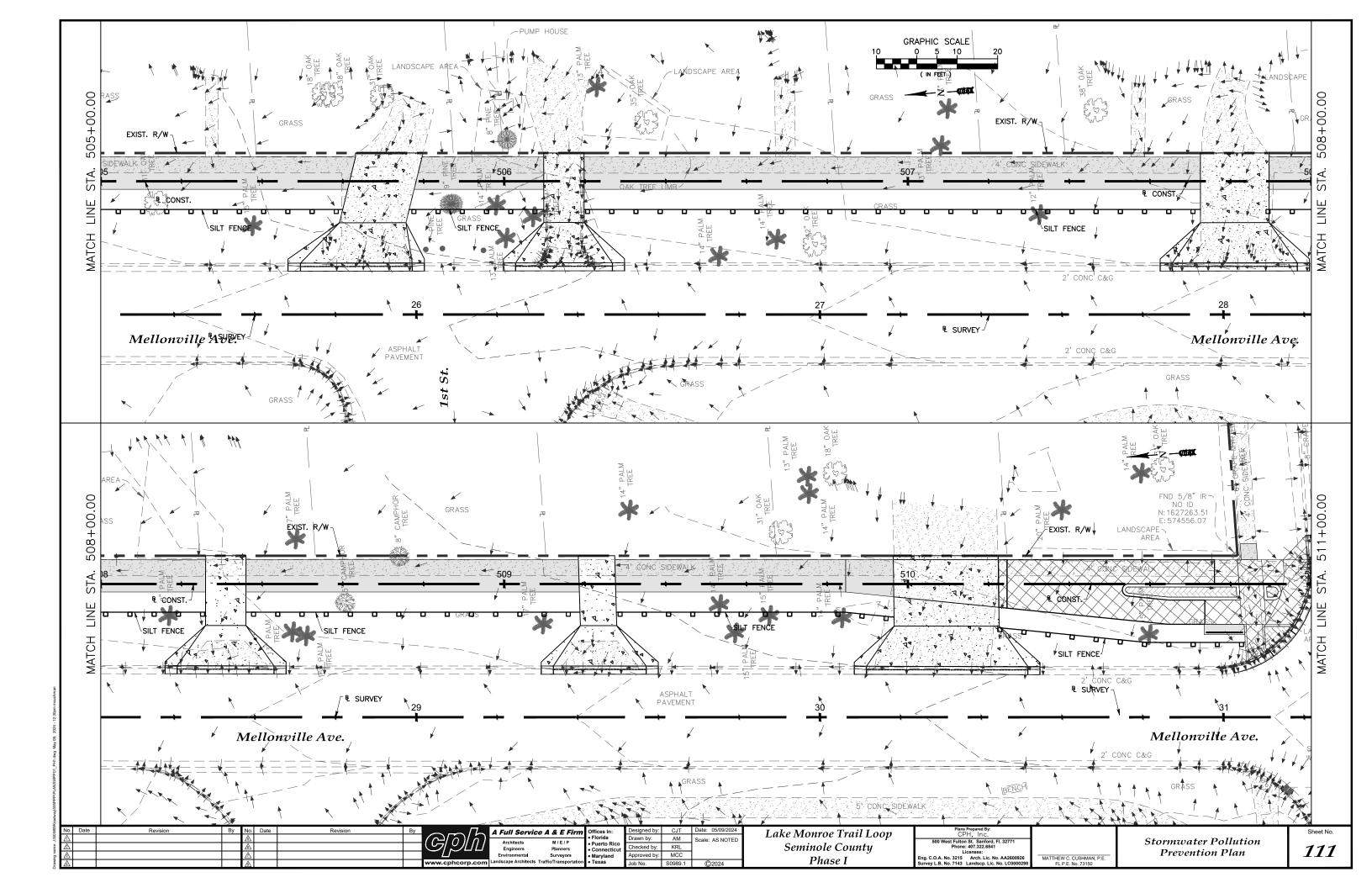
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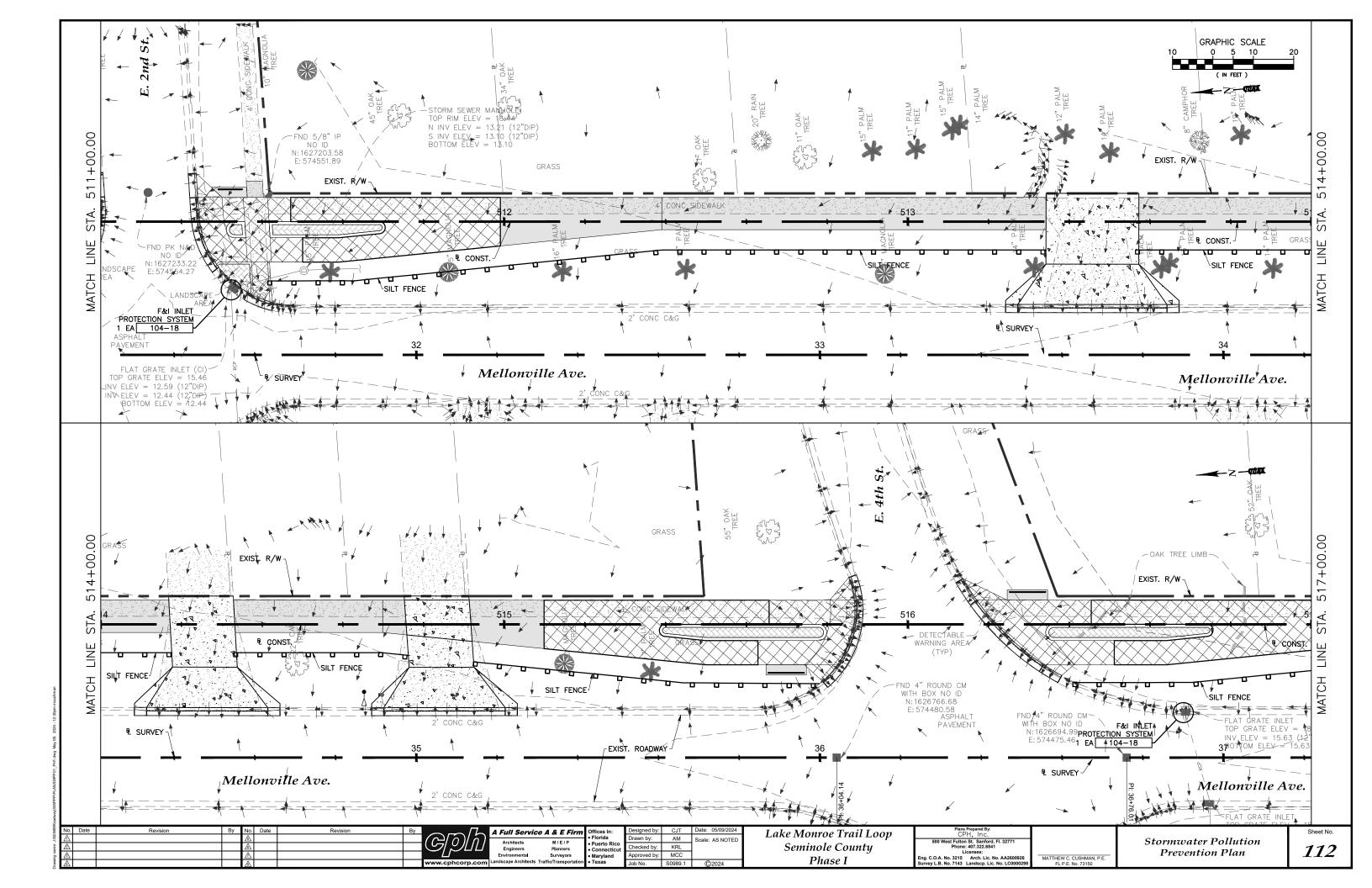
Lake Monroe Trail Loop Seminole County Phase I

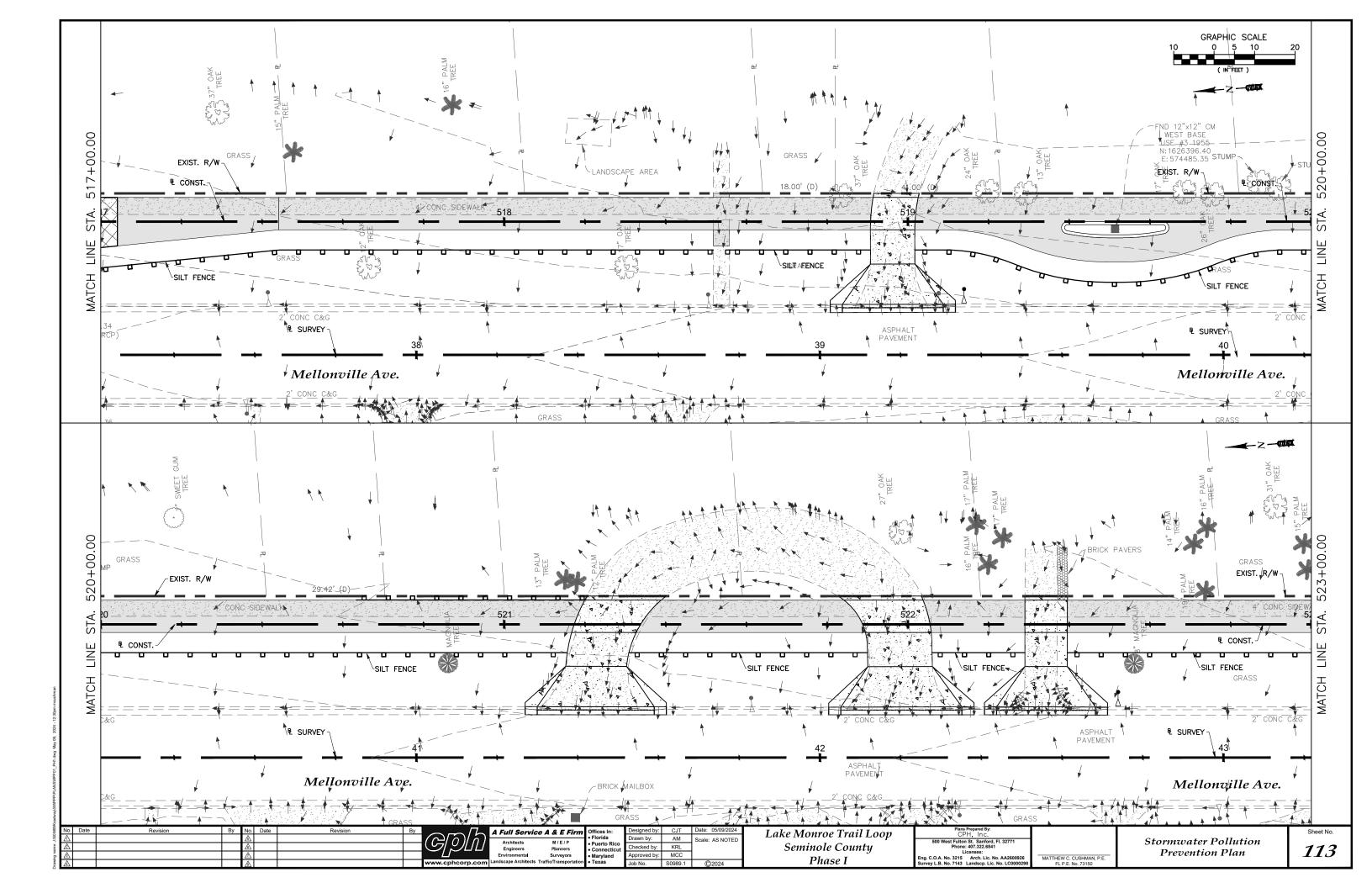
ng. C.O.A. No. 3215 Arch. Lic. No. AA260092 urvey L.B. No. 7143 Landscp. Lic. No. LC00000 MATTHEW C. CUSHMAN, P.E. FL P.E. No. 73150

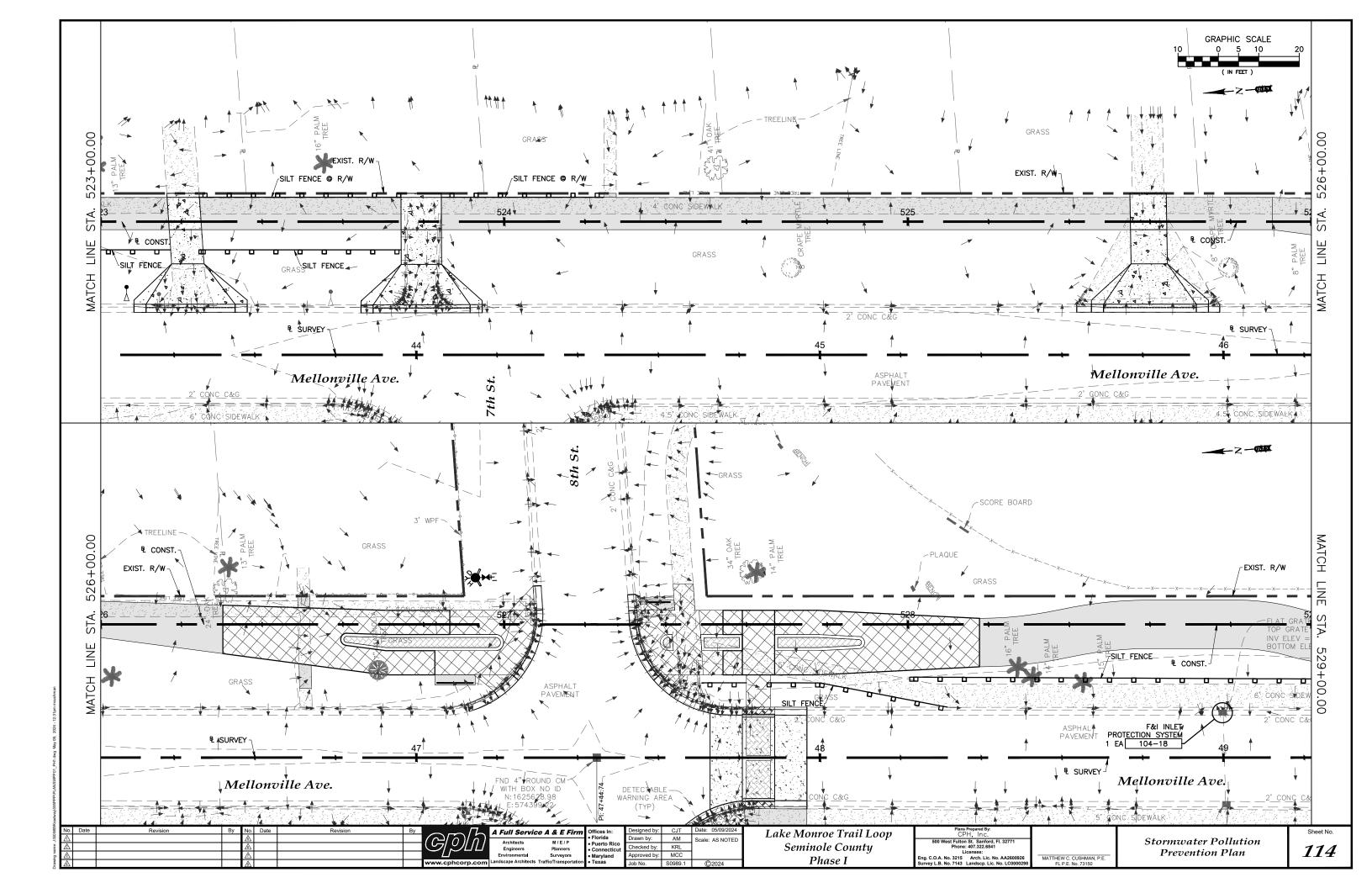
Stormwater Pollution Prevention Plan Notes 109

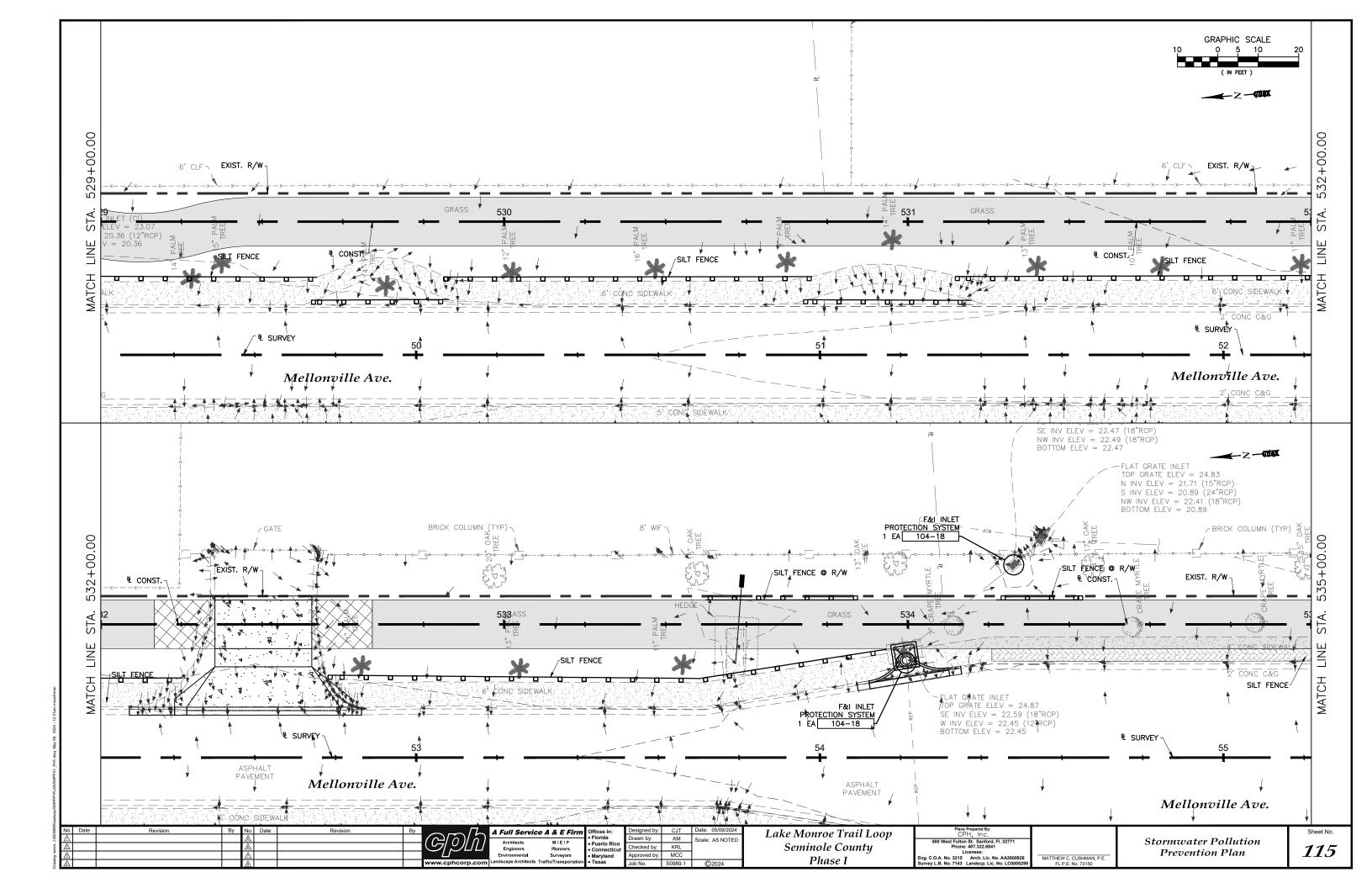


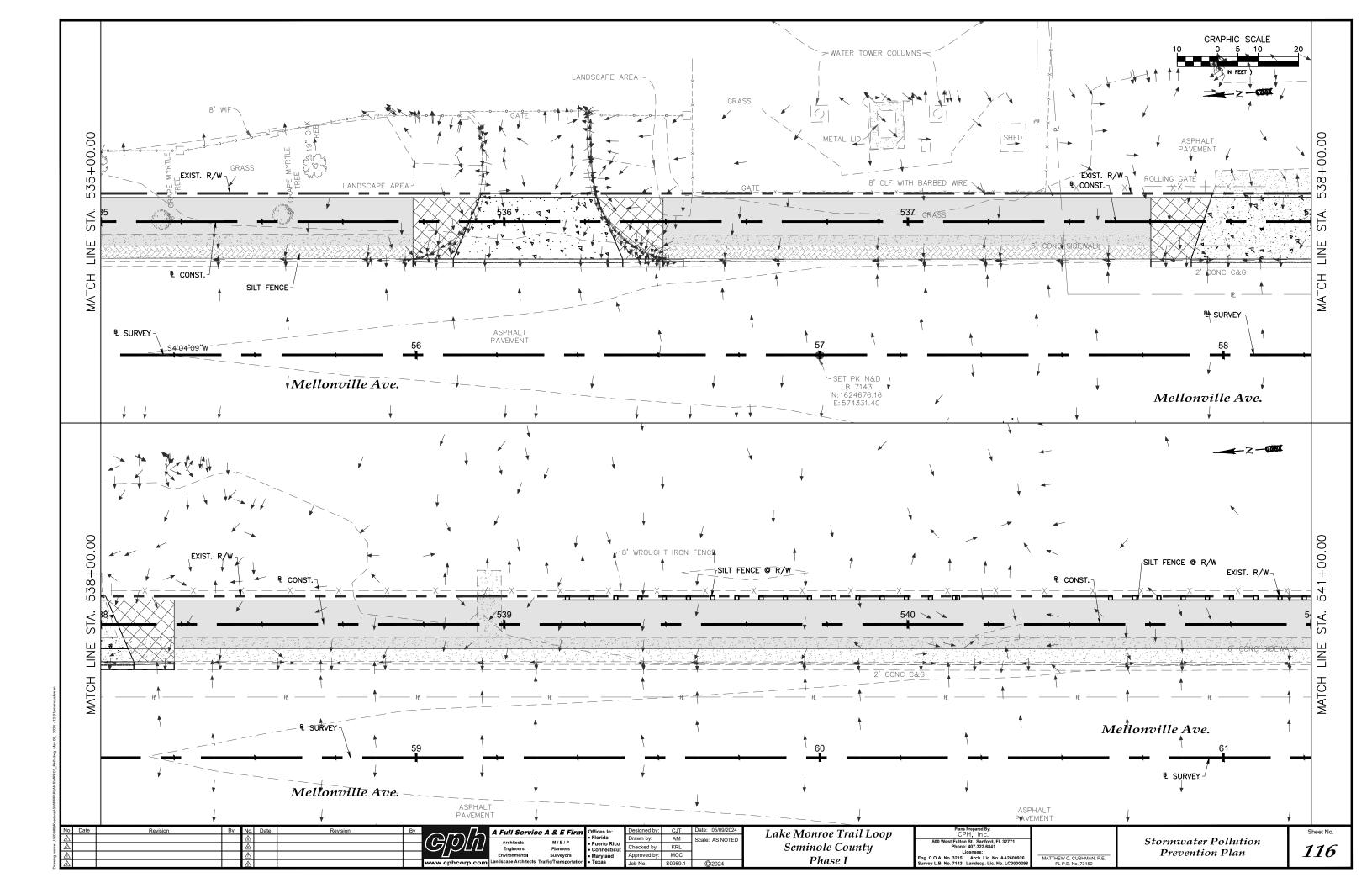


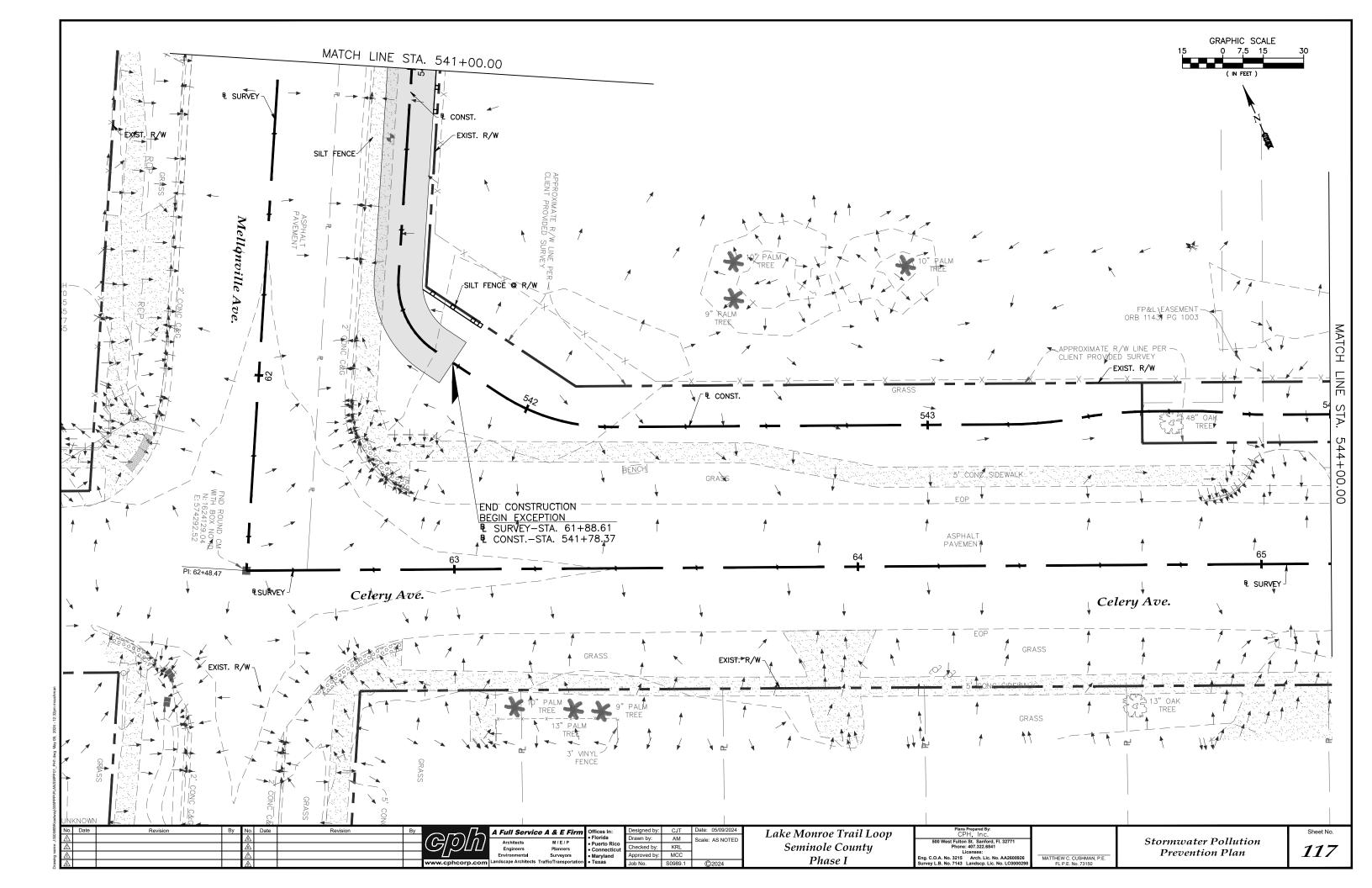


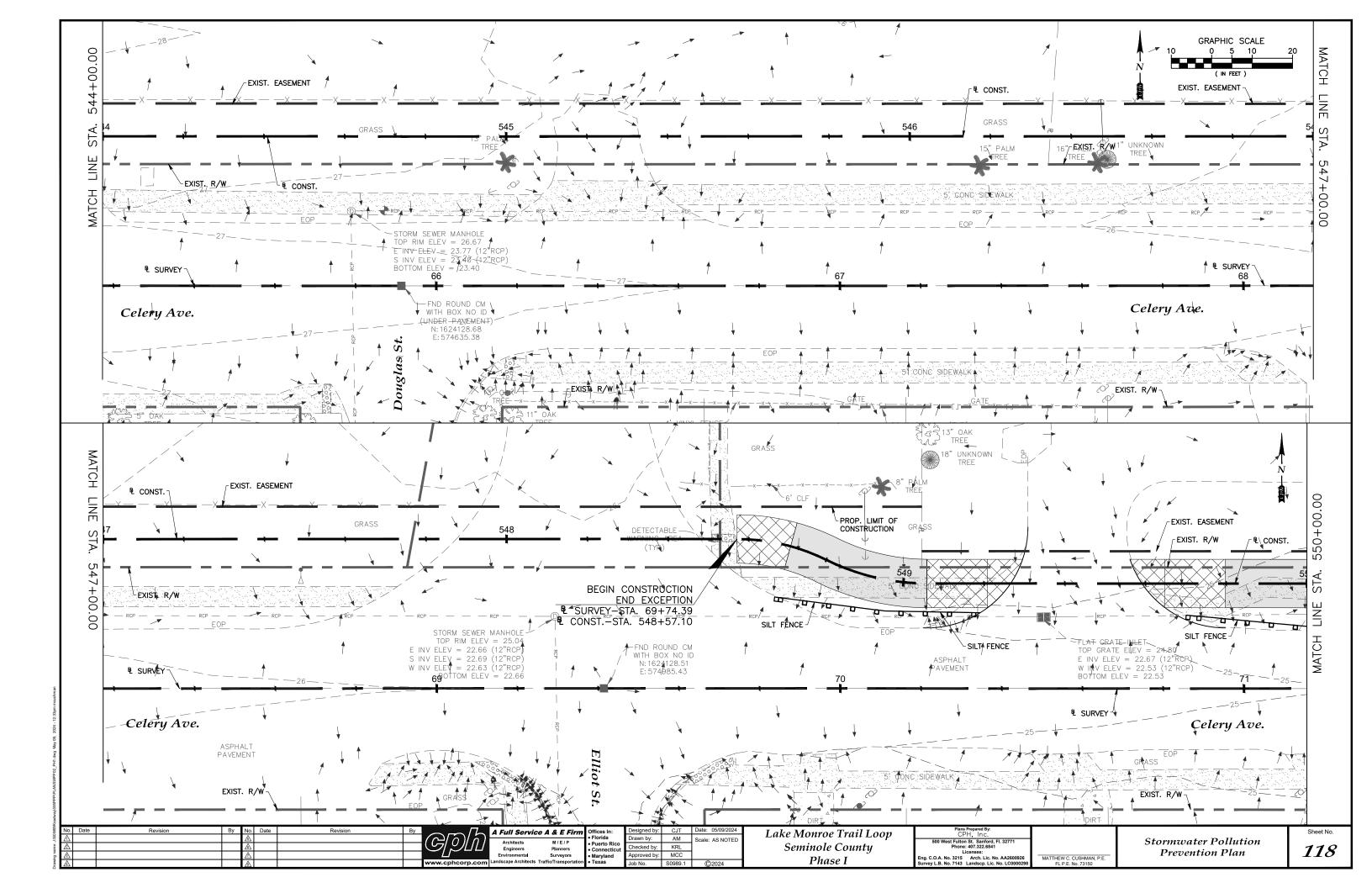


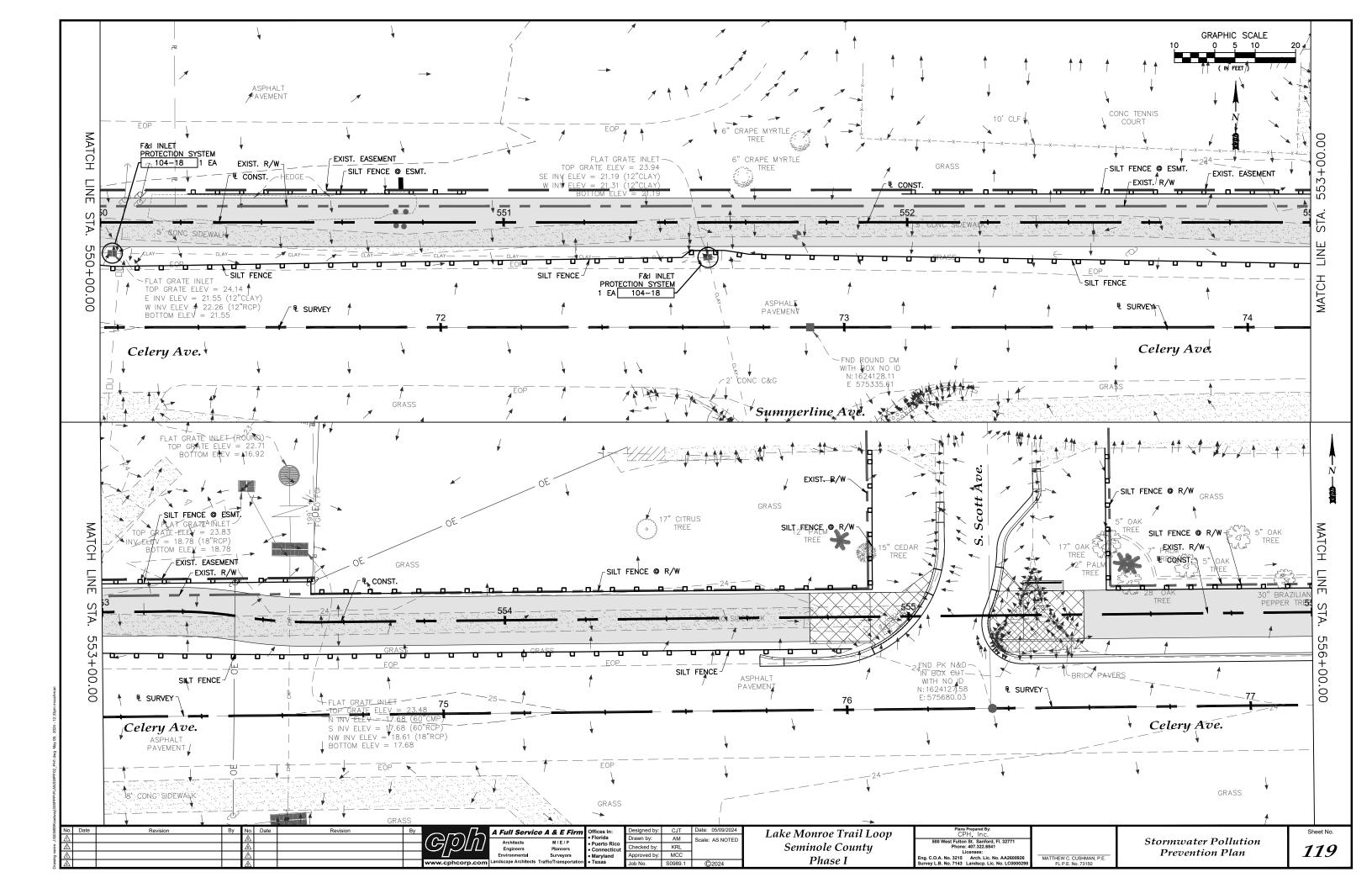


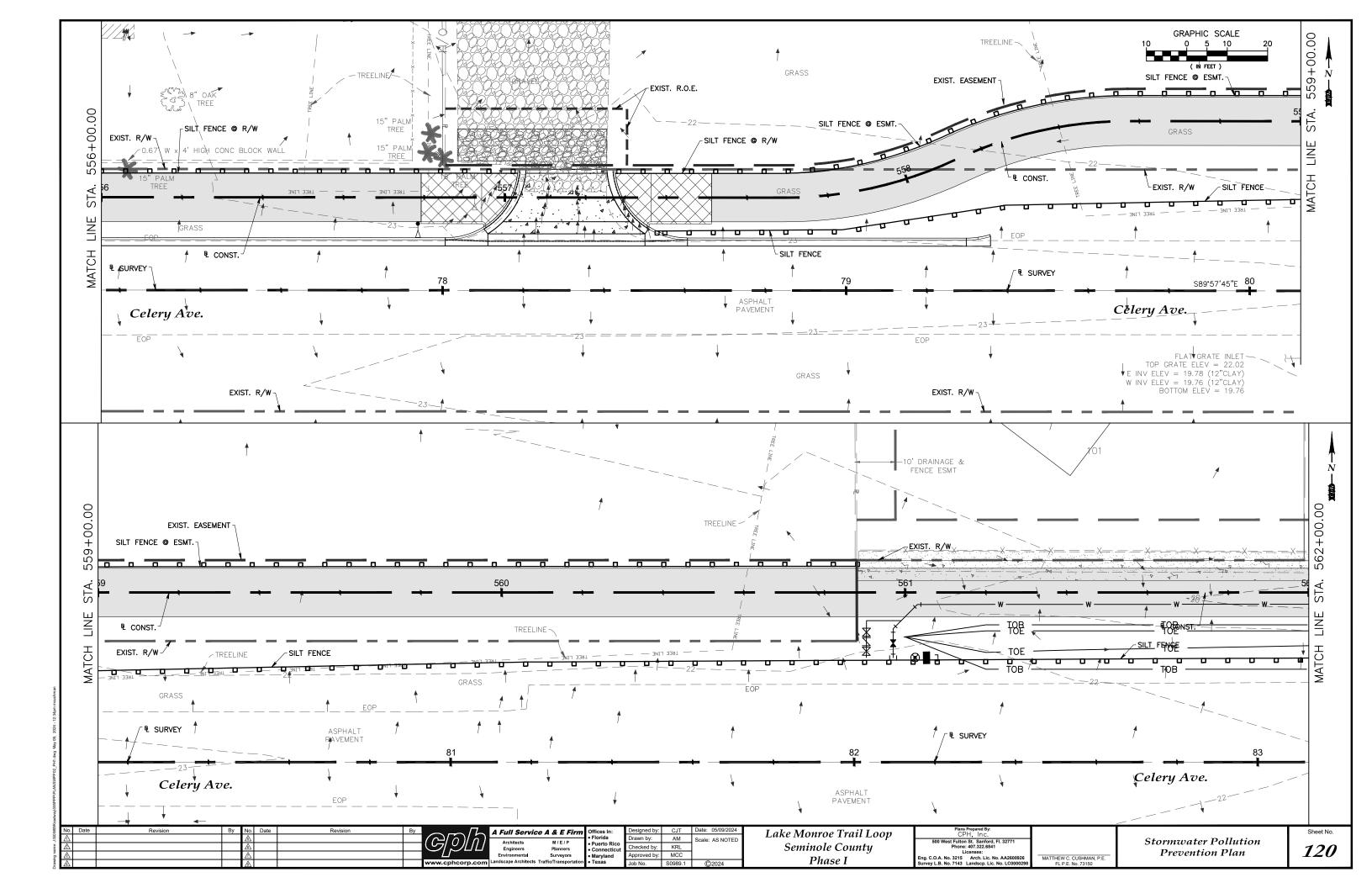


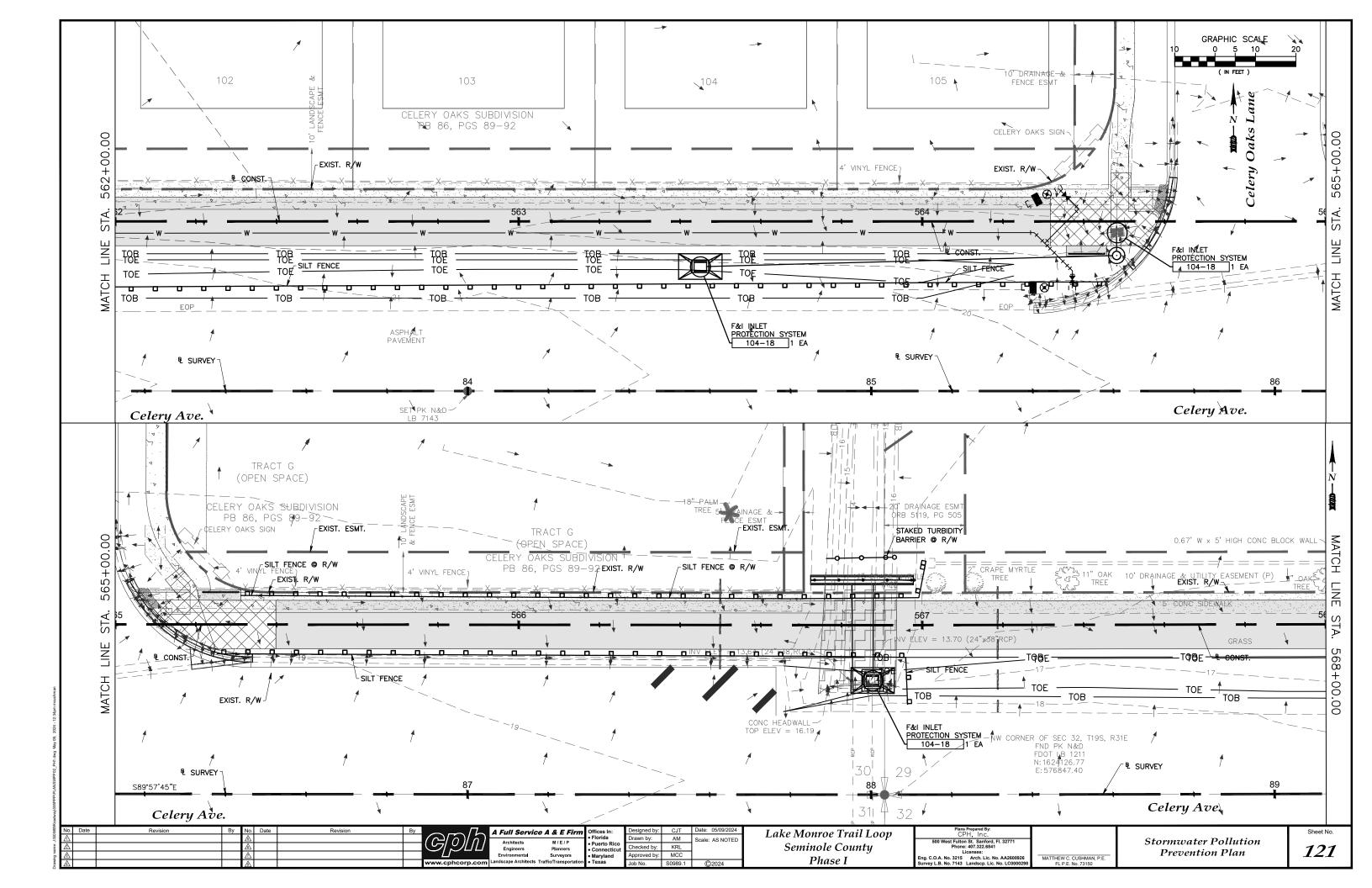


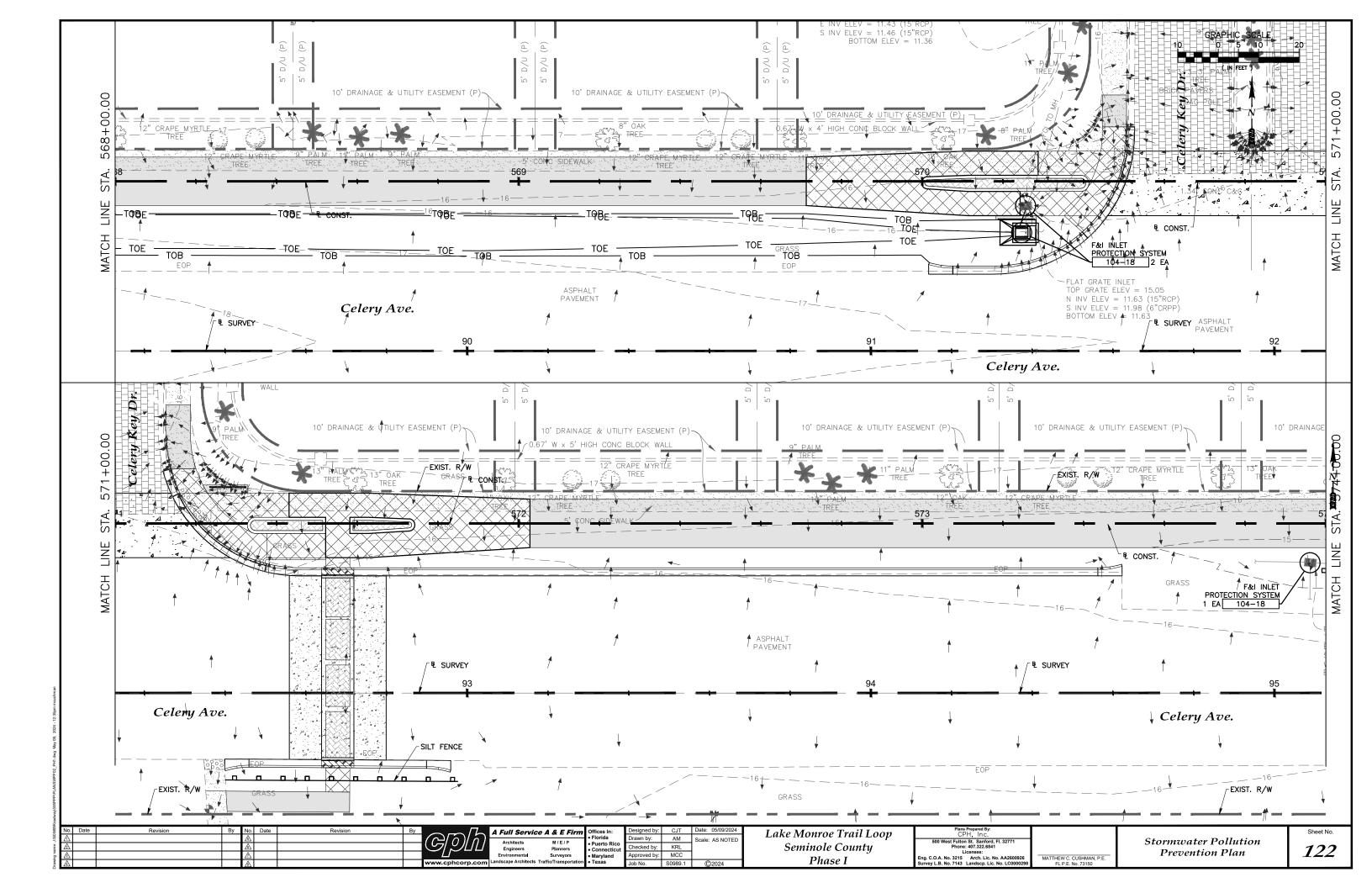


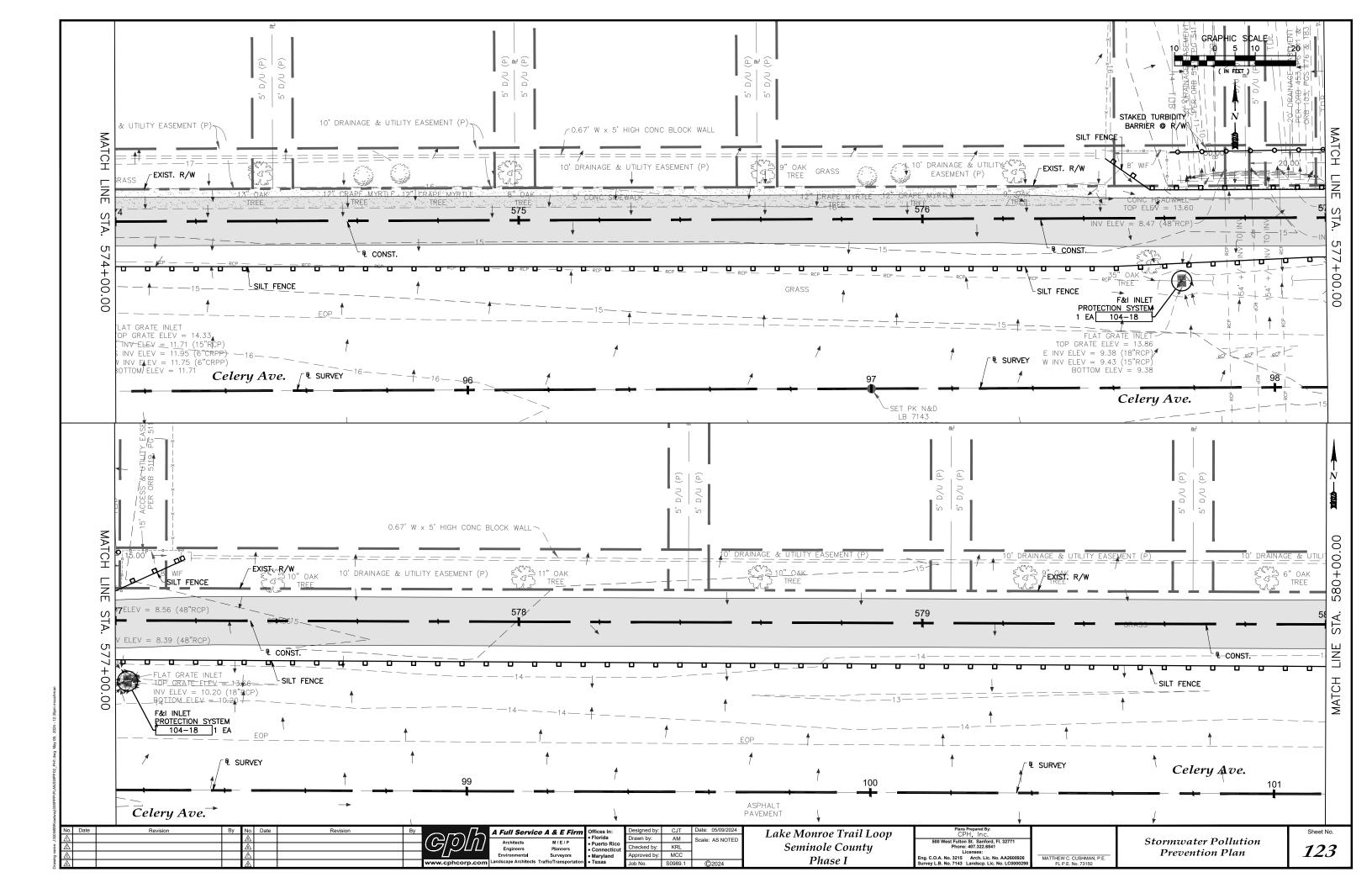


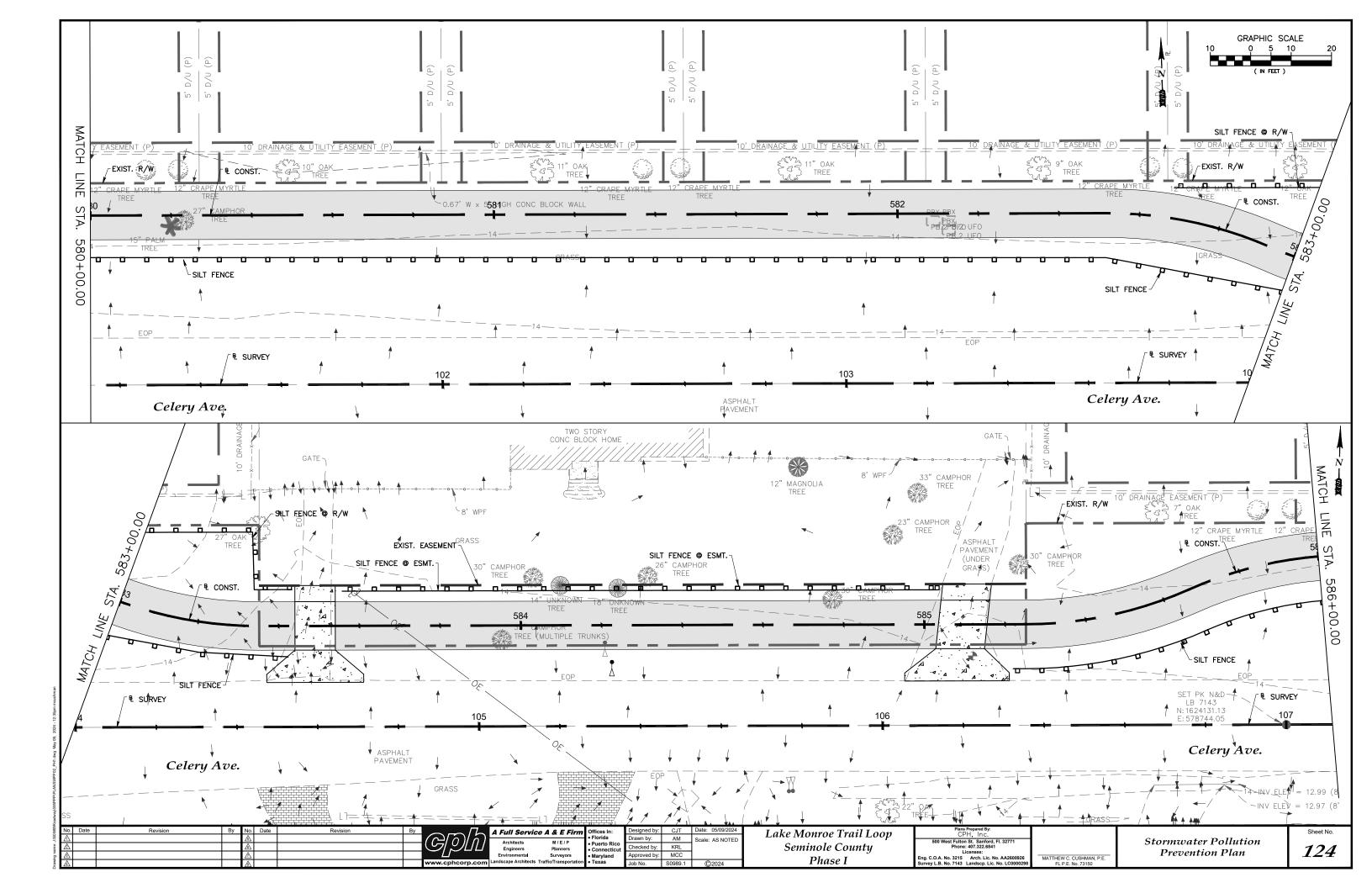


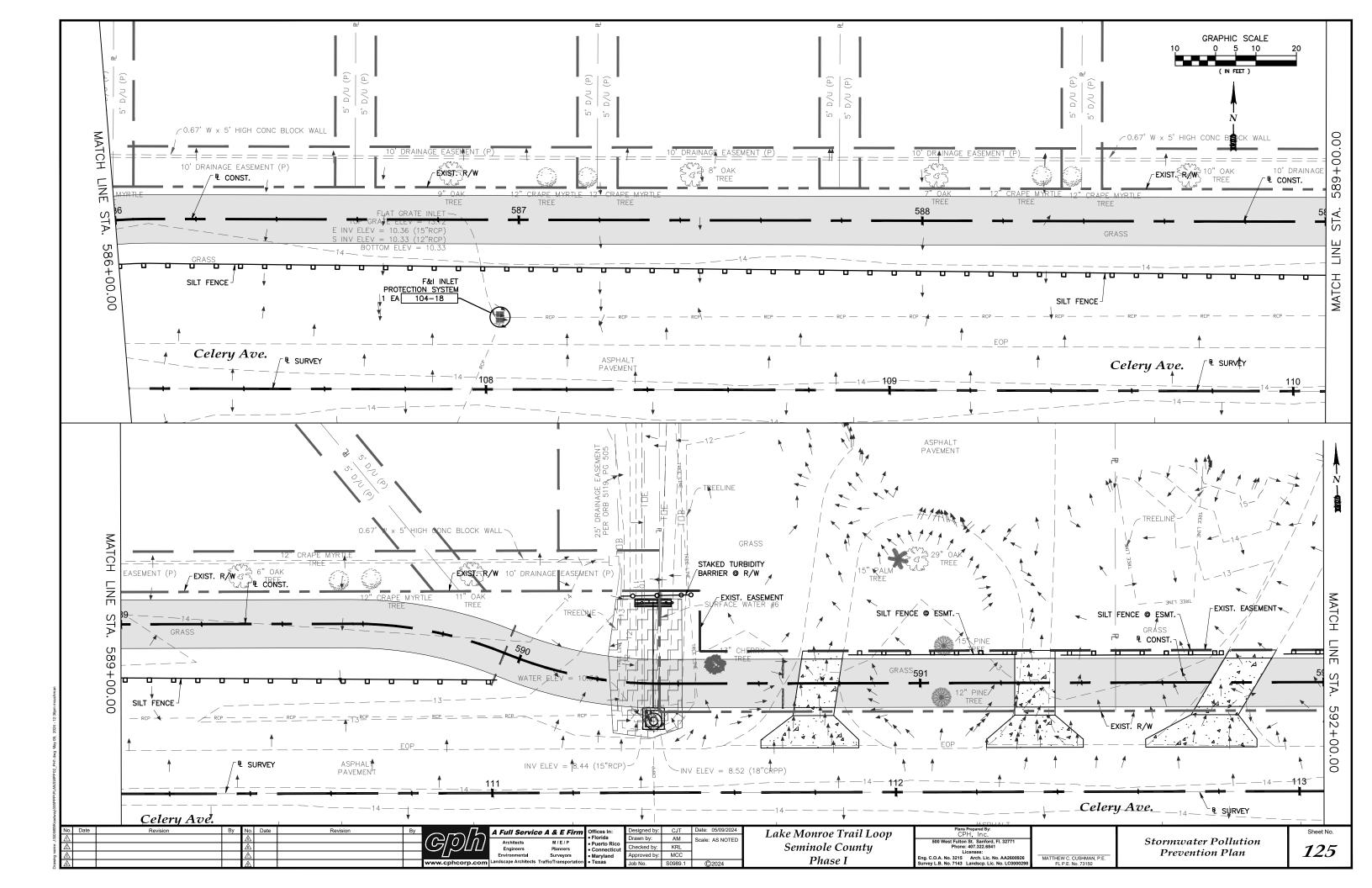


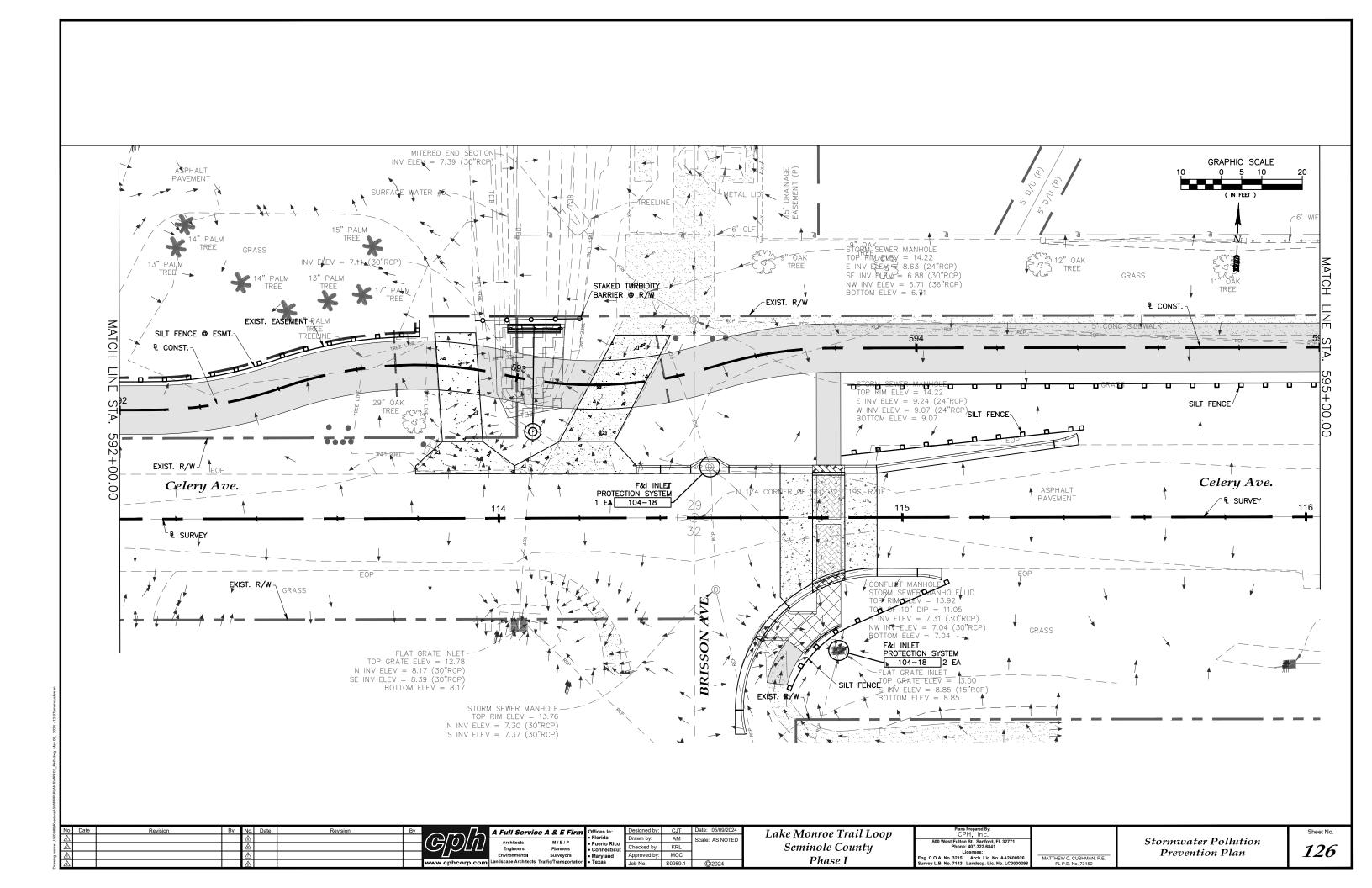


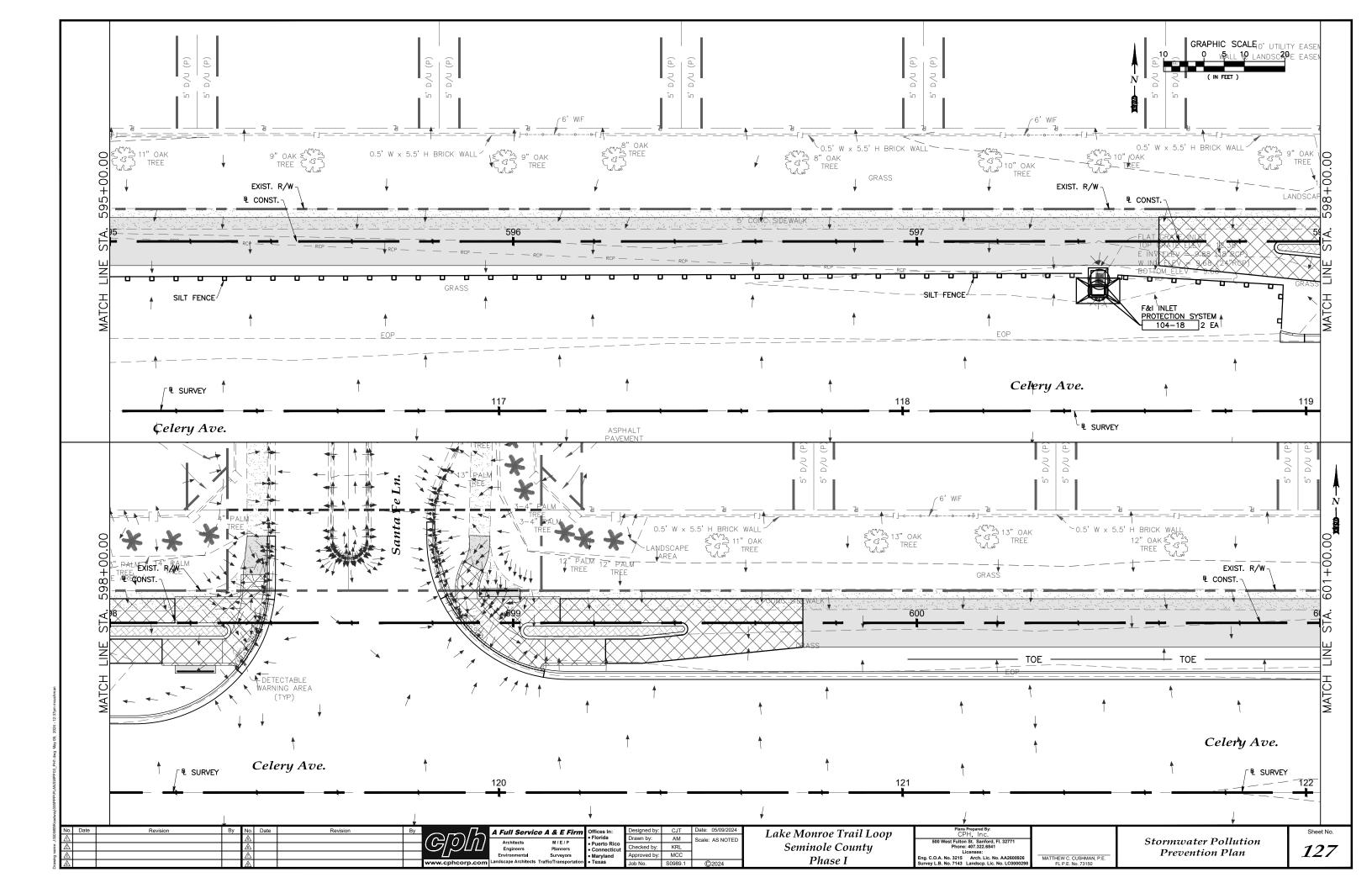


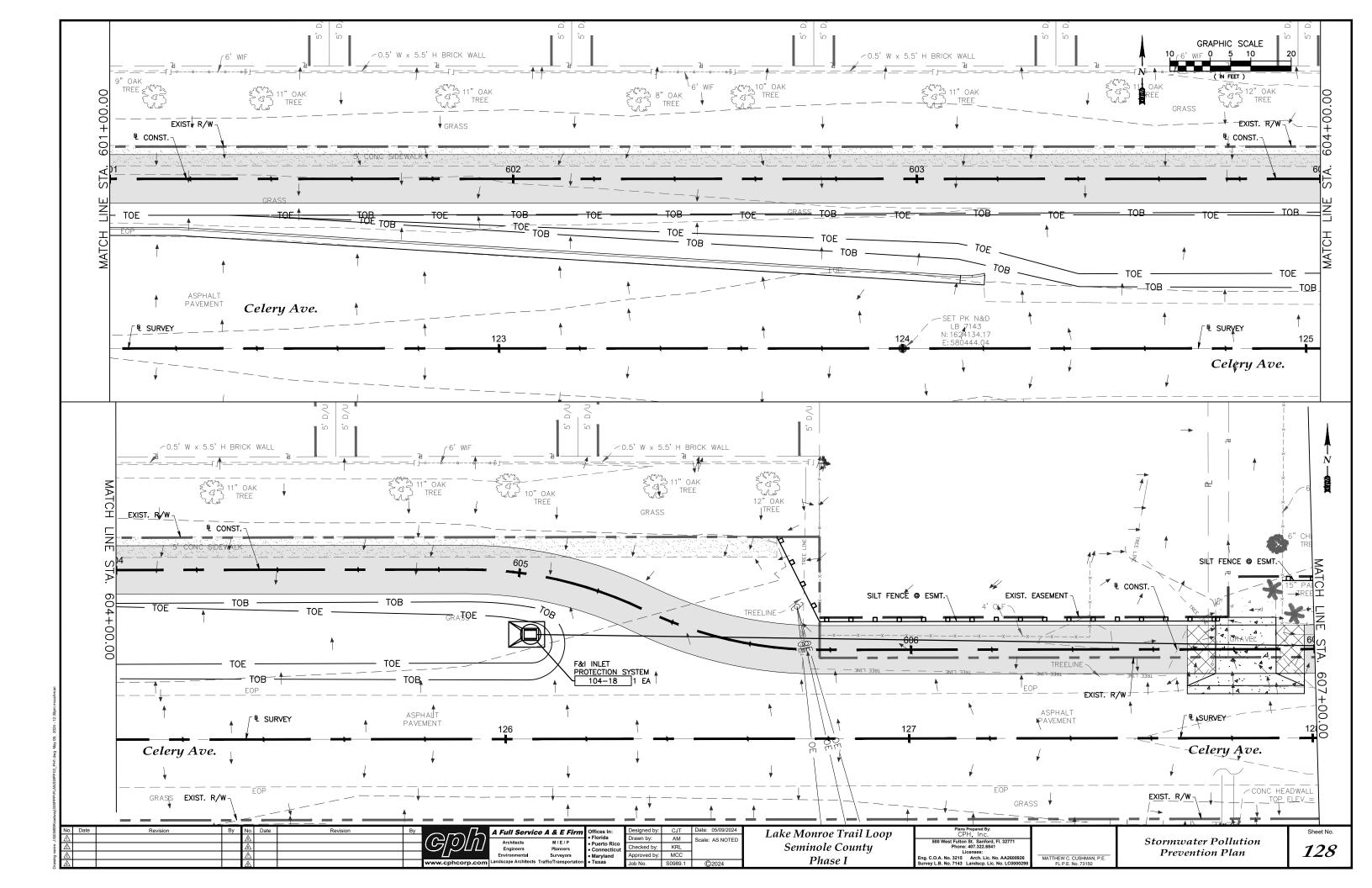


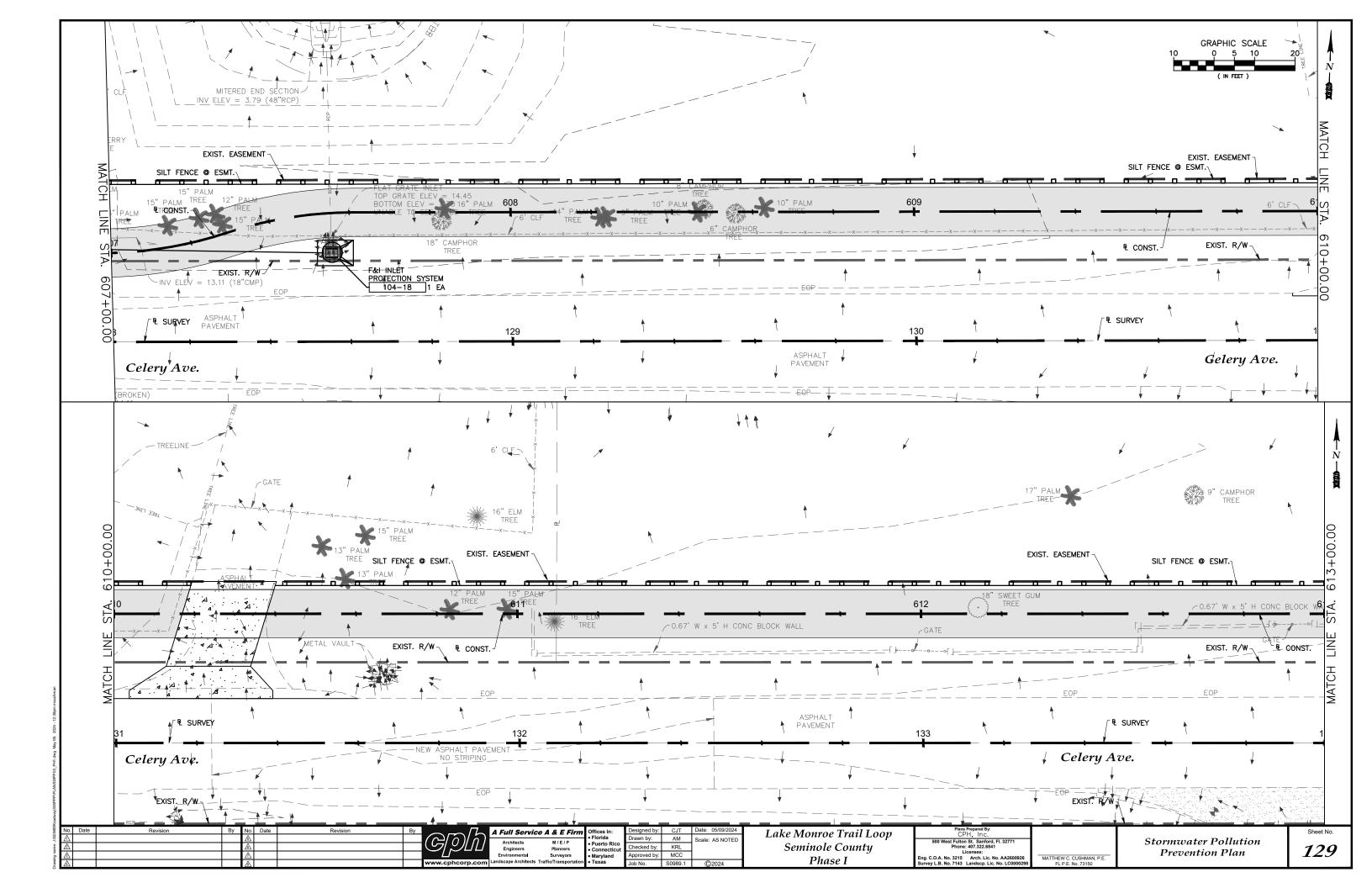


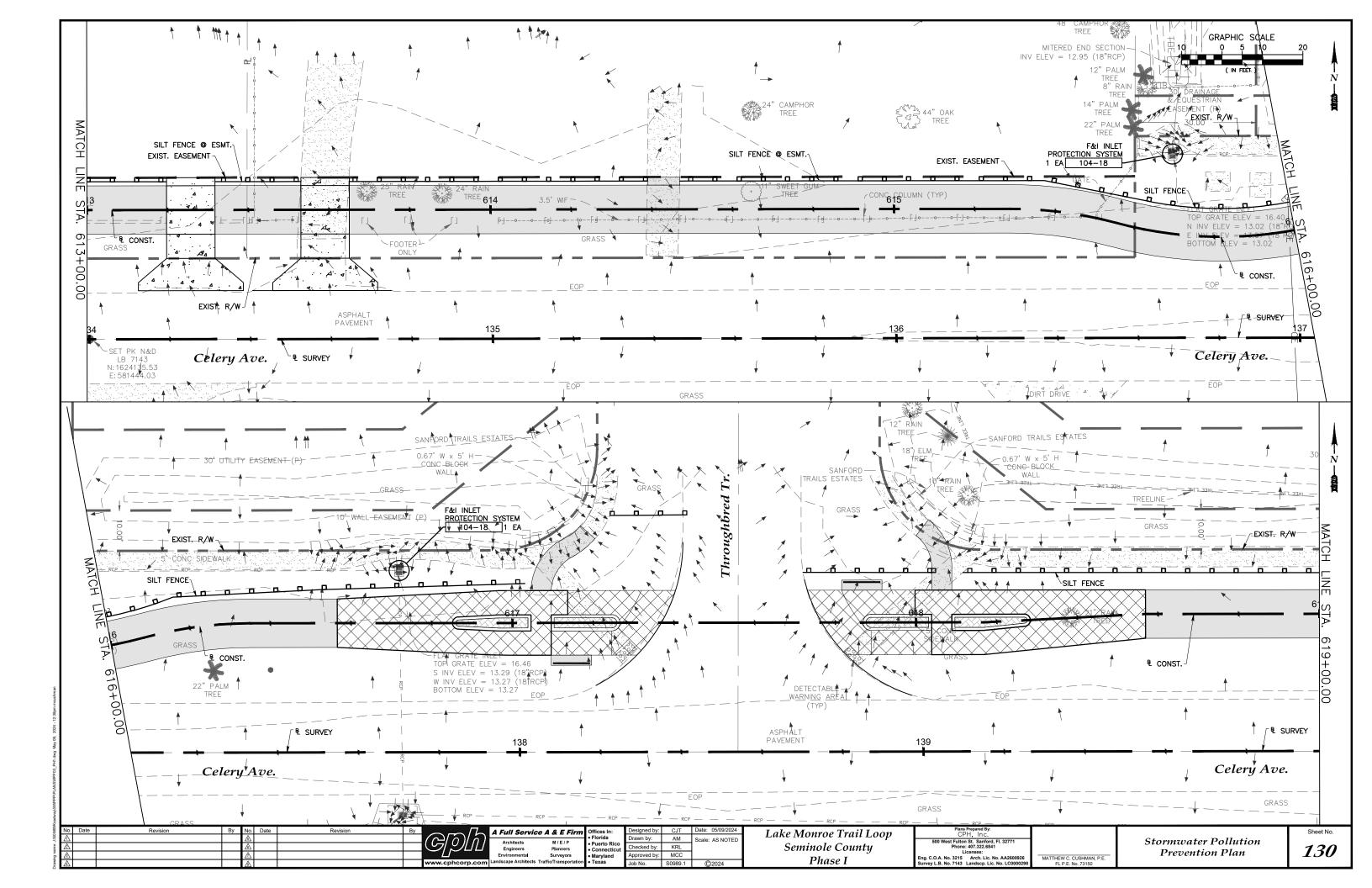


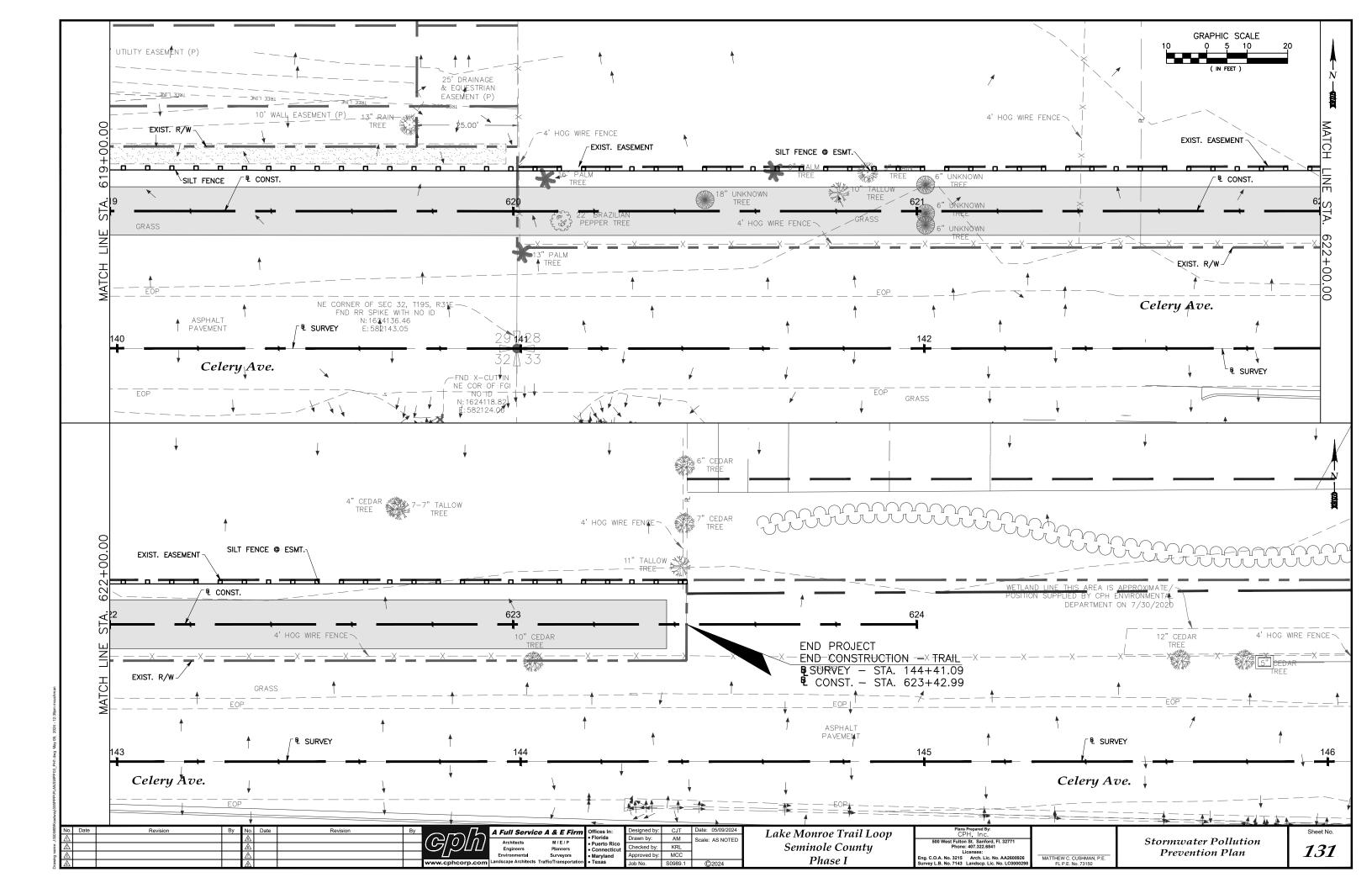


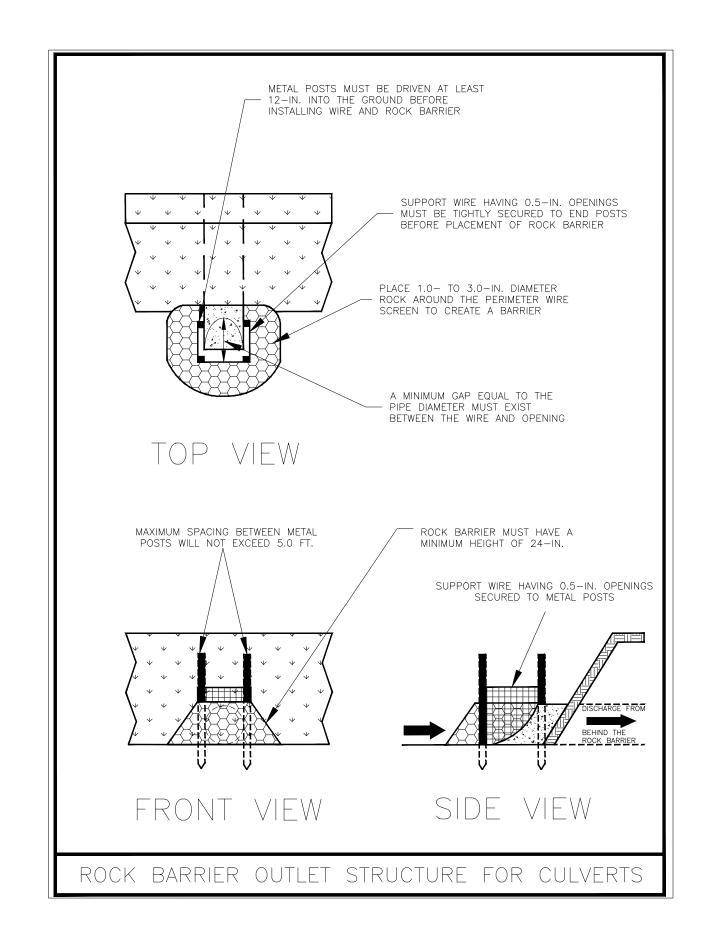


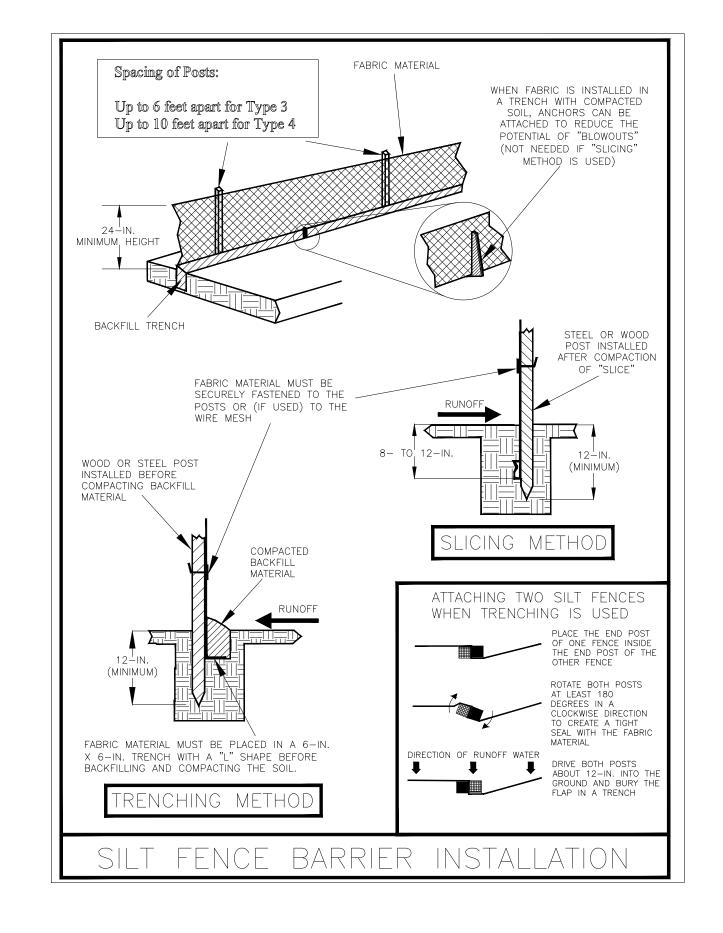












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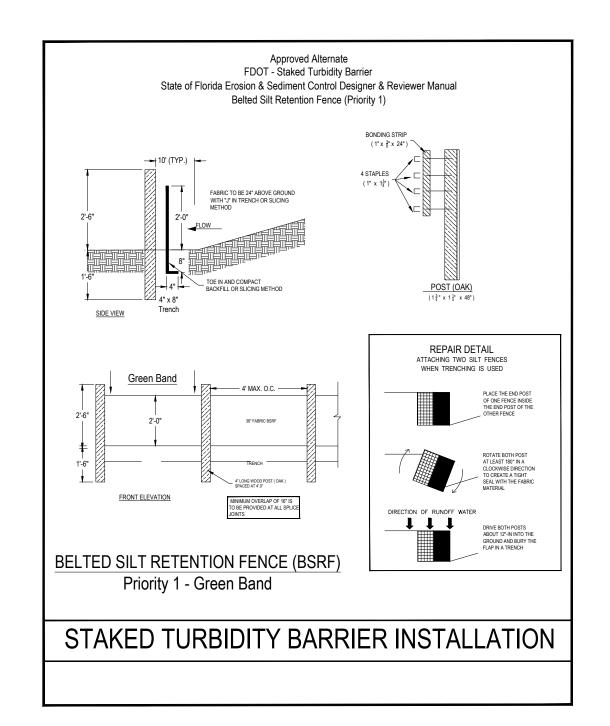
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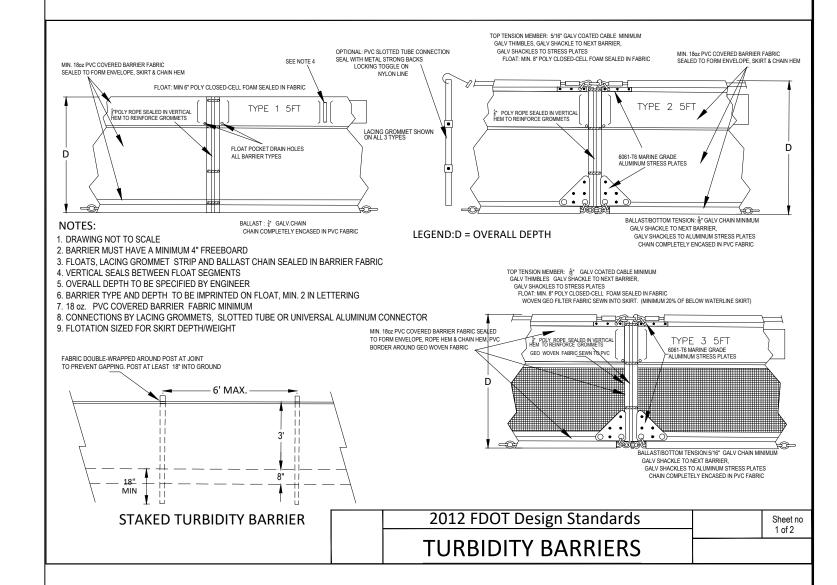
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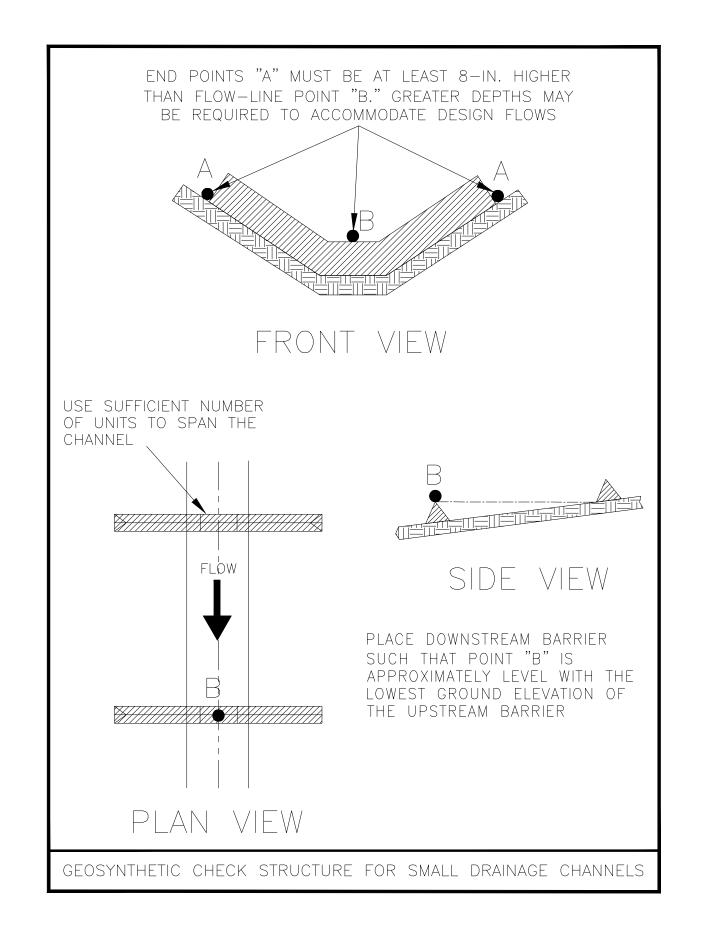
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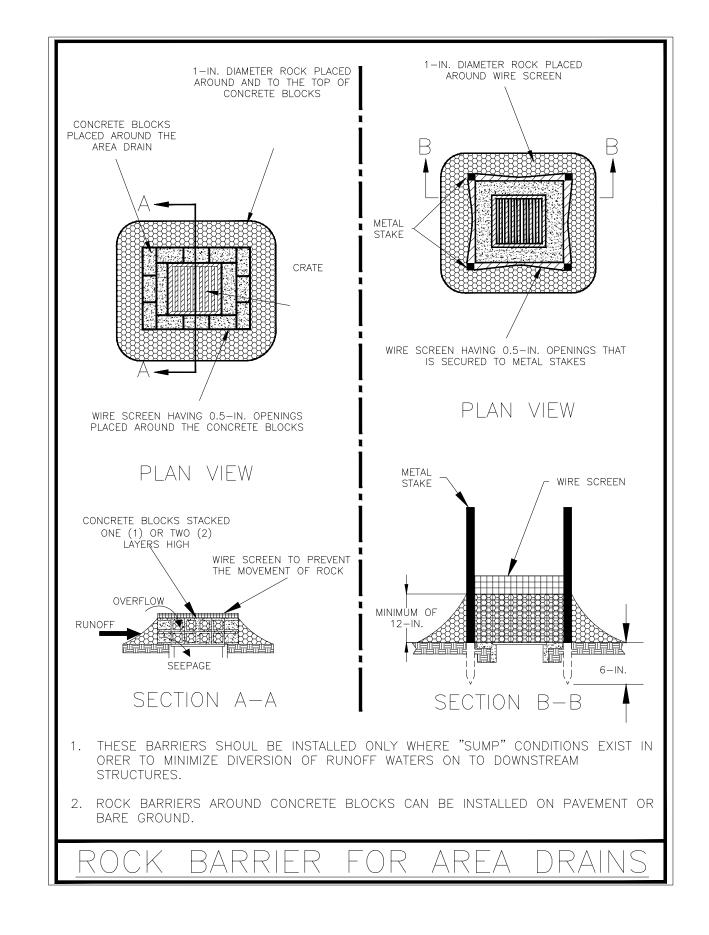
Lake Monroe Trail Loop Seminole County Phase I

CPH, Inc.
500 West Fulton St. Sanford, Fl. 32771
Phone: 407.322.6841
Licenses:
Eng. C.O.A. No. 3215
Arch. Lic. No. AA260092
Survey L.B. No. 7143
Landscp. Lic. No. LC00000

Stormwater Pollution **Prevention Details** 

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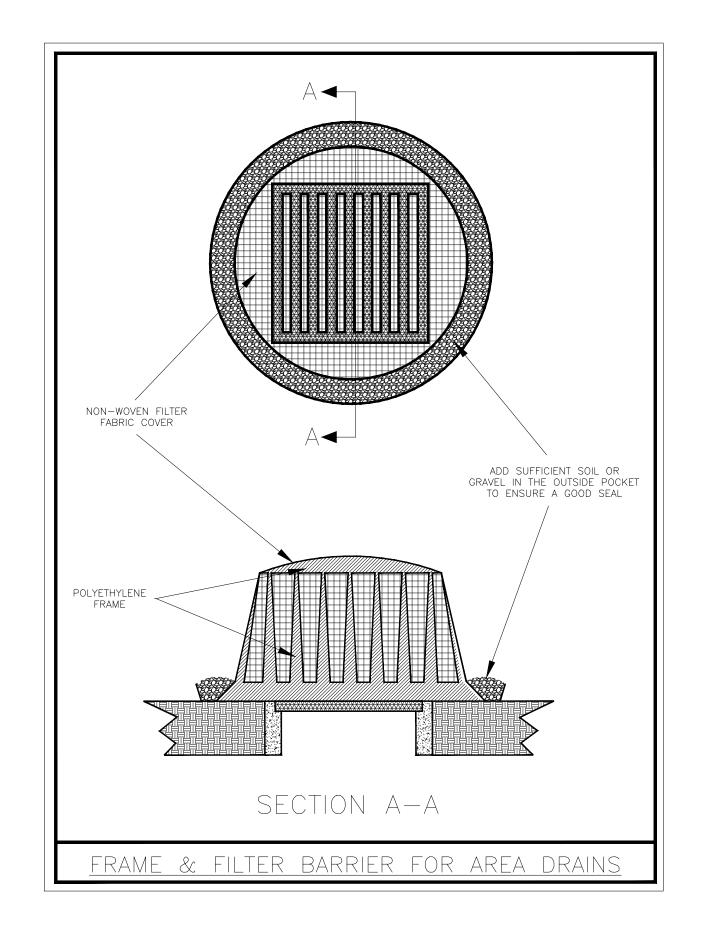
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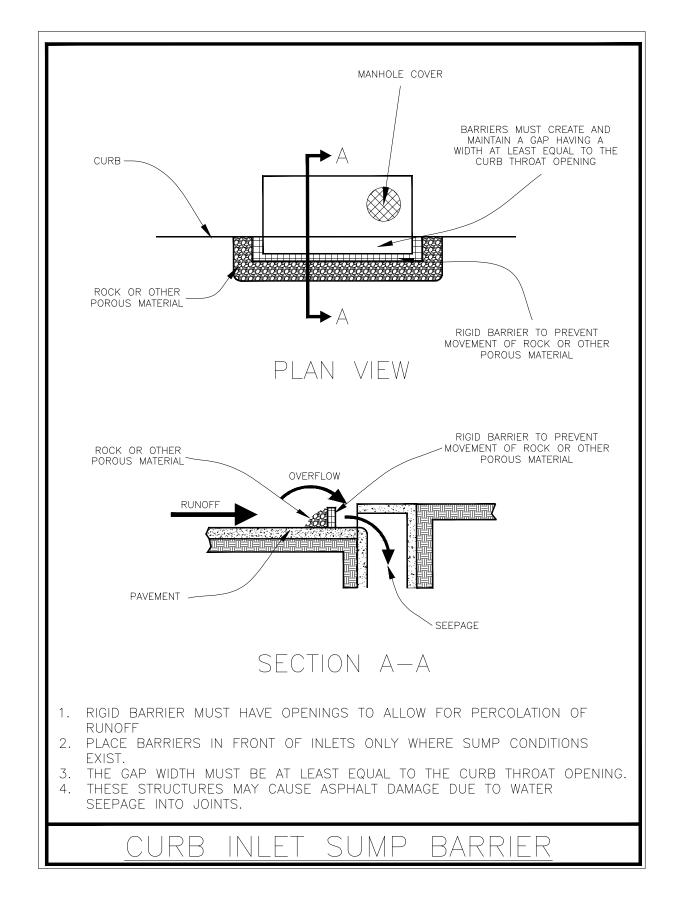
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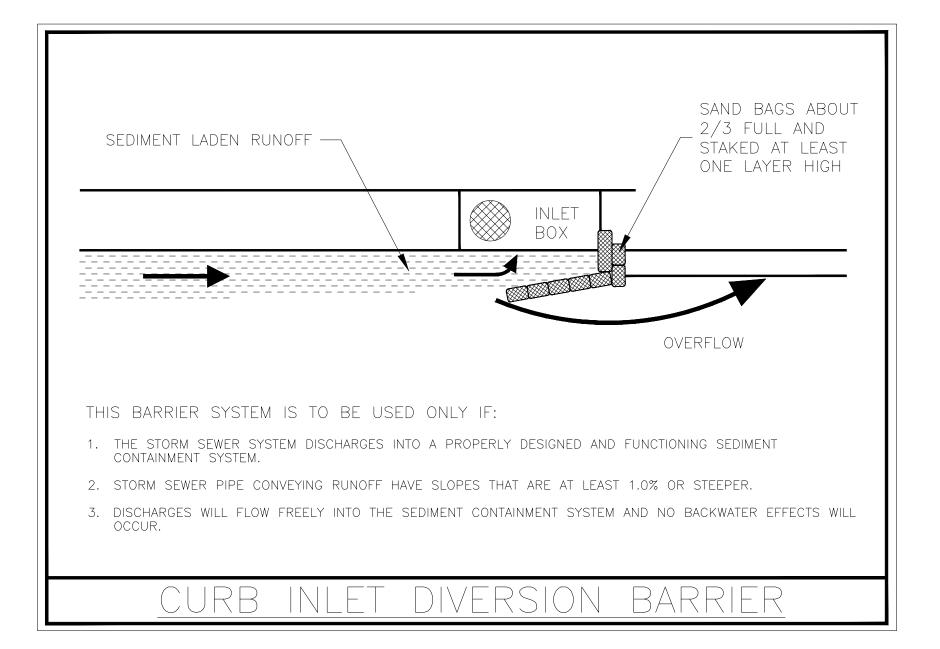
Landscape Architects Traffic/Transportation

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Lake Monroe Trail Loop Seminole County Phase I Plans Prepared By: CPH, Inc. 500 West Fulton St. Sanford, Fl. 32771 Phone: 407.322.8841 Licenses Eng. C.O.A. No. 3215 Arch. Lic. No. AA2600926 Survey L.B. No. 7143 Landscp. Lic. No. LC0000238

Stormwater Pollution Prevention Details



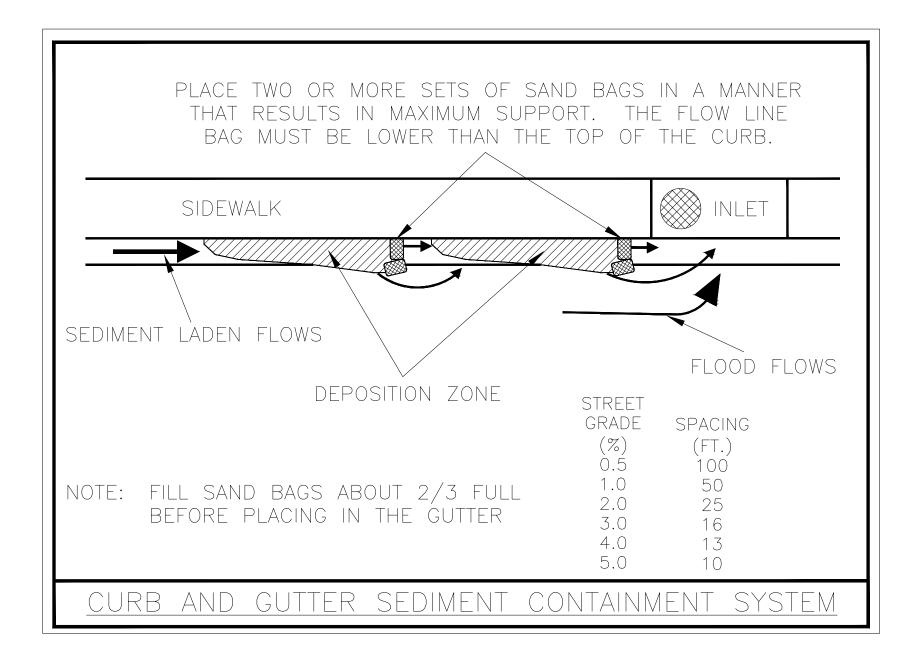
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Phase I

Plans Prepared By: CPH, Inc.						
500 West Fulton St. Sanford, Fl. 32771 Phone: 407.322.6841						
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Eng. C.O.A. No. 3215 Arch. Lic. No. AA2600926						
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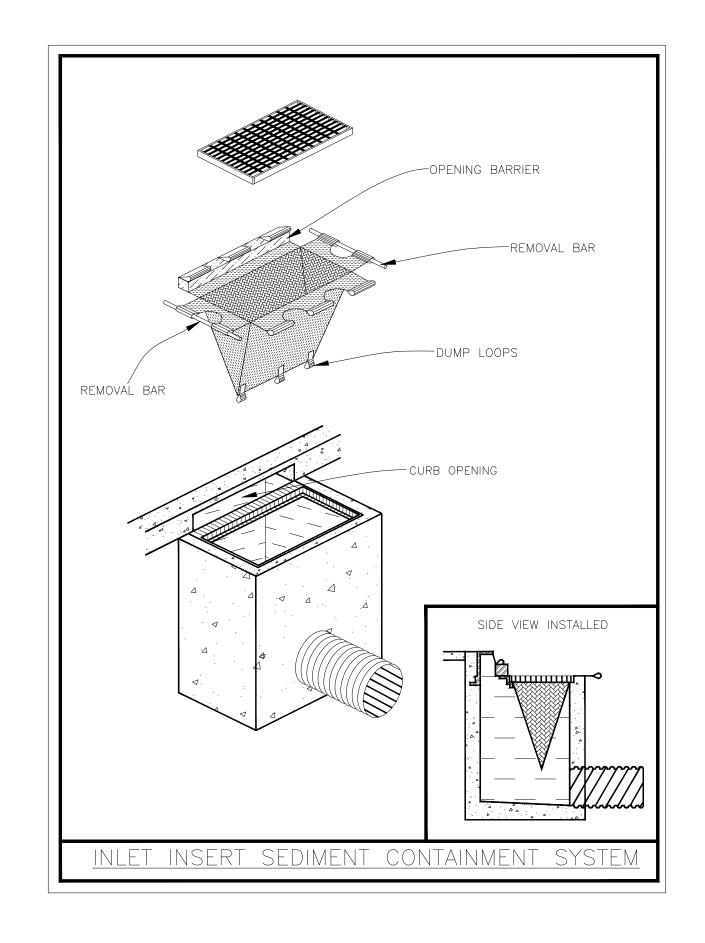
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Lake Monroe Trail Loop
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Plans Prepared By:							
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500 West Fulton St. Sanford, Fl. 32771							
Phone: 407.322.6841							
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Stormwater Pollution Prevention Details

# SIGNING & PAVEMENT MARKING GENERAL NOTES

- ALL SIGNS AND PAVEMENT MARKINGS ARE TO BE PLACED IN ACCORDANCE WITH THE FHWA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE FHWA "MANUAL ON STANDARD HIGHWAY SIGNS", AND THE FDOT "STANDARD PLANS", LATEST EDITION.
- 2. THE BACK OF ALL FINISHED SIGN PANELS SHALL BE STENCILED WITH THE DATE OF FABRICATION. THE FABRICATOR'S INITIALS, AND THE NAME OF THE SHEETING AT THE LOWER RIGHT- HAND CORNER OF THE SIGN IN THREE INCH LETTERS.
- 3. THE CONTRACTOR SHALL VERIFY THE LENGTH OF SIGN COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.
- ALL SIGNS TO BE REMOVED ARE THE PROPERTY OF THE SEMINOLE COUNTY GOVERNMENT. DISASSEMBLE SIGNS FROM THE POST AND DELIVER TO THE COUNTY ENGINEER.
- 5. ALL SEMINOLE COUNTY SIGNS SHALL BE NEW INSTALLATION.
- ALL GROUND MOUNTED SIGNS SHALL BE FABRICATED USING HIGH INTENSITY GRADE SHEETINGS.
- 7. ALL SURFACES SHALL BE CLEANED PRIOR TO START OF INSTALLATION OF ALL PAVEMENT MARKINGS.
- 8. ALL SIGNS INCLUDING STOP SIGNS ON SIDE STREETS SHALL BE UNOBSTRUCTED.
- FABRICATION OF ALL SIGNS SHALL BE INCORPORATED WITH TITLE 23, US CODE, SECTION 109B, 109D, AND 402A AND HIGHWAY SAFETY PROGRAM STANDARD 13, TRAFFIC ENGINEERING SERVICES.
- 10. ALL HARDWARE WILL BE 5/16" THREAD.
- 11. ALL ROADWAY SIGNS TO BE MOUNTED ON U-CHANNEL THREE (3) POUNDS PER SQUARE FOOT, USING TWIST BRACKETS INSIDE MOUNT TO ATTACHED STREET I.D.'S WHICH WILL BE 9" METRO SIDE STREET, 9" MAIN STREET, WITH ANCHOR BRACKET. ALL TRAIL SIGNAGE SHALL BE INSTALLED ON A 4X4 ALUMINUM POST.
- 12. ALL PAVEMENT MARKINGS ON ROADWAYS SHALL BE ALKALIDE/THERMOPLASTIC UNLESS OTHERWISE SPECIFIED. ALL PAVEMENT MARKINGS ON SHARED USE PATHS SHALL BE PAINT, PER FDOT STANDARD SPECIFICATIONS SECTION 710.
- 13. THE PAVEMENT MARKINGS AT ALL EXISTING/PROPOSED INTERFACE LOCATIONS ARE TO MATCH IN TERMS OF ALIGNMENT.
- 14. DUE TO DESTRUCTION AND TRACKING BY CONSTRUCTION VEHICLES, ADDITIONAL PAVEMENT MARKINGS AT THE BEGINNING AND END OF PROJECT MAY BE REQUIRED AS DETERMINED BY THE INSPECTOR AND/OR ENGINEER.
- 15. THE CONTRACTOR SHALL REMOVE ANY EXISTING OR TEMPORARY PAVEMENT MARKINGS THAT CONFLICT WITH THE SIGNING & PAVEMENT MARKING PLANS. THE CONTRACTOR SHALL UTILIZE A NON-DESTRUCTIVE FDOT APPROVED METHOD FOR STRIPING REMOVAL. EXCESSIVE DAMAGE TO EXISTING ASPHALT AS DETERMINED BY THE CITY ENGINEER SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- 16. SOME BROOMING MAY BE REQUIRED FOR INSTALLATION OF SIDE STREET STOP BARS.
- 17. REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED IN ACCORDANCE WITH THESE PLANS AND STANDARD INDEX NO. 706-001.
- 18. PRIOR TO THERMOPLASTIC PAVEMENT MARKINGS INSTALLATION, A 30-DAY "CURE TIME" ON ASPHALT IS REQUIRED.
- 19. ALL SPECIAL EMPHASIS CROSSWALKS SHALL CONSIST OF TWO 12 INCH PREFORMED STRIPES AS NOTED ON THE PLANS, WITH 24 INCH PREFORMED BARS SPACED AS SHOWN IN STANDARD PLAN INDEX 711-001, SHEET 10 OF 13 AND PARALLEL TO THE LANE LINES.
- 20. PAVEMENT MESSAGES AND ARROWS SHALL BE PLACED IN ONE SEGMENT OR AS ONE LIFT.
- 21. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REPLACE ALL EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS. IF SIGNS ARE DAMAGED BY THE CONTRACTOR, THE SIGNS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

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710-11-224	PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF			8		21		7	12															48	
711-11-123	THERMOPLASTIC, STD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF			3					100															103	
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF					22			11	13		27						13				19		105	
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA																							0	
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711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF																							0	
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711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF																							0	
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Landscape Architects	Traffic/Transportation	• Texas

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Florida	Drawn by:	AM	Scale: AS NOTE
Puerto Rico Connecticut	Checked by:	KRL	
Maryland	Approved by:	MCC	
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Plans Prepared By:									
CPH, Inc.									
500 West Fulton St. Sanford, Fl. 32771									
Phone: 407.322.6841									
Licenses:									
Eng. C.O.A. No. 3215 Arch. Lic. No. AA2600926		MA							
Survey L.B. No. 7143 Landscp. Lic. No. LC0000298									

Signing & Pavement Marking Plans Summary of Pay Items

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	W01-02R (18"X18"), W16-09 (24"X12")																											
	W01-02L (18"X18"), W16-09 (24"X12")																											
700-1-11	W11-2 (30"X30"), W16-07P (24"X18")	AS	AS																						14		38	
	W11-15 (36"X36"), W-16-07P (24"X18")																											
	W17-1 (30"X30"), W13-1P (18x18")		2								2																	
	OM1-1 (18"X18")																				2							
	W8-3 (24"x24"),W16-2aP (12"x9")																		2									
700-1-50	SINGLE POST SIGN, RELOCATE	AS	3								3		1		1				1						9		27	
700-1-60	SINGLE POST SIGN, REMOVE	AS	1							-													1		1		2	
706-1-03	RAISED PAVEMENT MARKERS	EA	26								8		6												40		64	
710-11-170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	4										4						4						12		24	!
710-11-200	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 4"	GM	0.098								0.049		0.049				0.017		0.082						0.295		0.890	
110 11 200		0	0.000								0.0.0		0.0.0				0.017		0.002						0.200		0.000	
710-11-224	PAINTED PAVEMENT MARKINGS, STD, YELLOW, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	14								8		7						13						42		90	
711-11-123	THERMOPLASTIC, STD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	162								100														262		365	
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	24										13						14						51		156	
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	2																						2		2	!
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF											10												10		10	
71111221													.0															
711-14-123	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12" FOR CROSSWALK	LF	415								124		241						193						973		1,937	
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF									36											-			36		36	+
711-15-101	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES WHITE, SOLID, 6"	GM	0.050								0.011		0.038										+ +		0.099		0.143	<del>                                     </del>
711-15-201	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, YELLOW, SOLID, 6"	GM	0.009								0.006		0.011												0.026		0.145	

Date	Revision	Ву	No.	Date	Revision	Ву	
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w.cphcorp.com	Landscape Architects	Traffic/Transportation	• Te

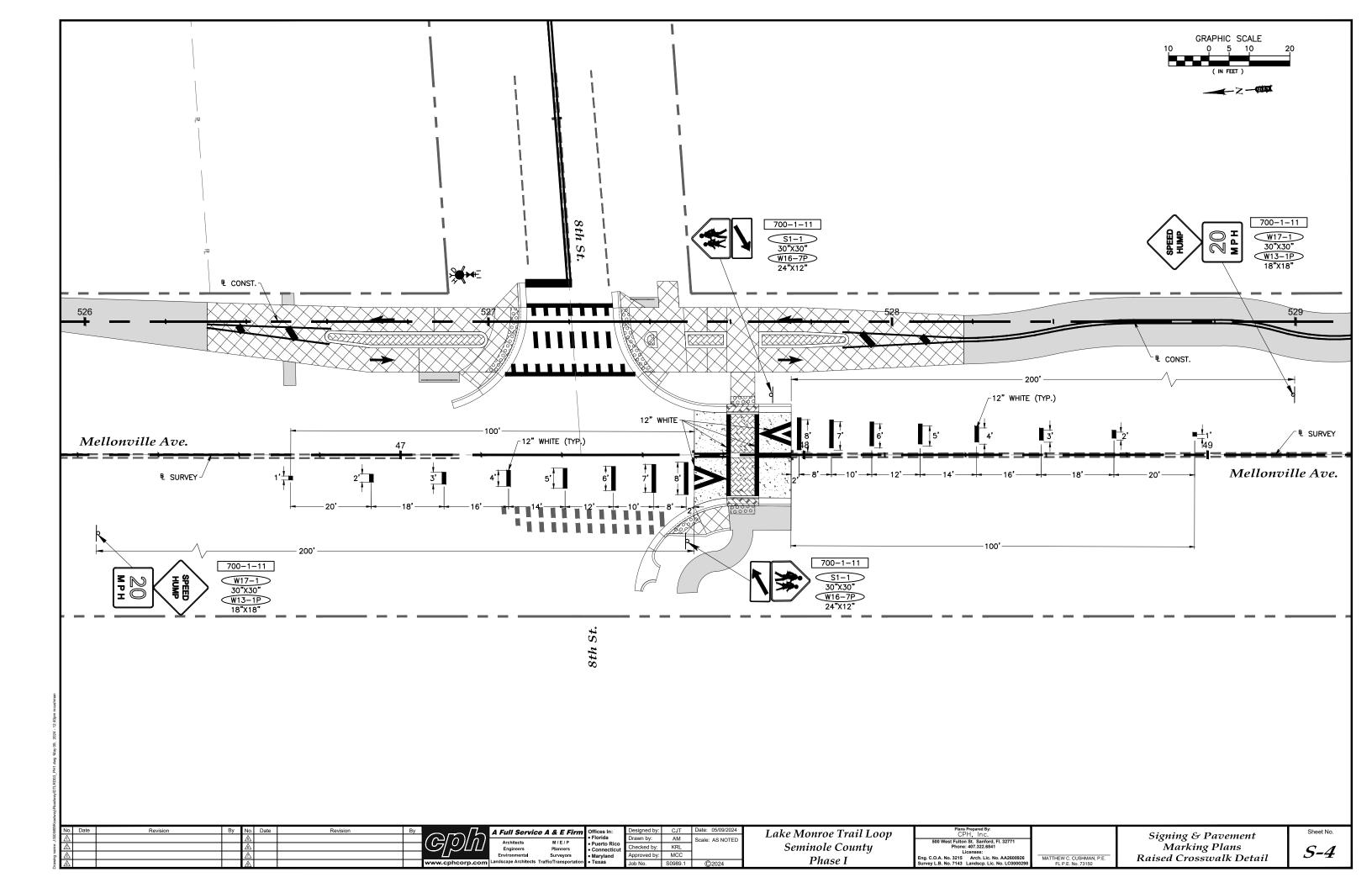
A Full Service	Offices In: • Florida				
Architects Engineers Environmental	M / E / P Planners Surveyors	Puerto Ri     Connectio     Maryland			
Landscape Architects	Traffic/Transportation	• Texas			

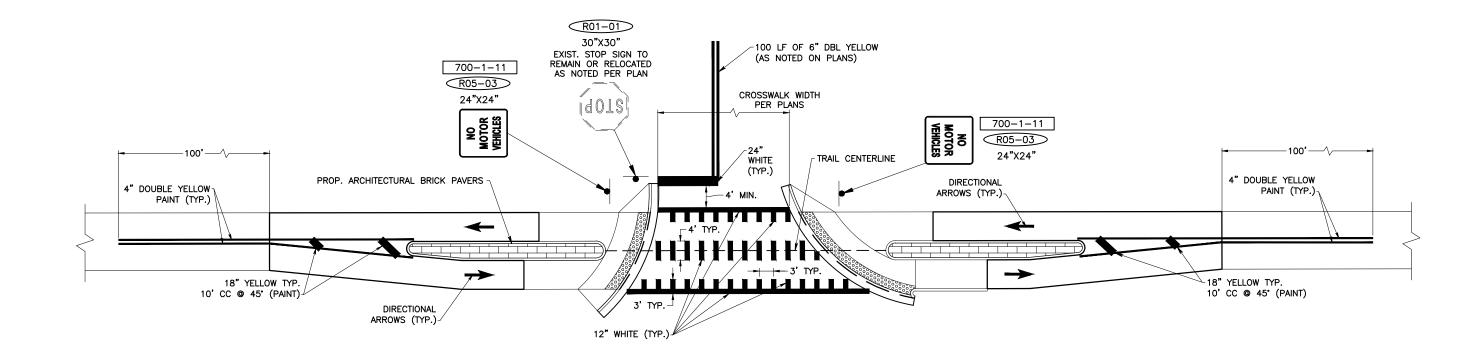
	Designed by:	CJT	Date: 05/09/2024
ico cut	Drawn by:	AM	Scale: AS NOTED
	Checked by:	KRL	
ı	Approved by:	MCC	
	Job No.	S0989.1	©2024

Lake Monroe Trail Loop
Seminole County
Phase I

Plans Prepared By:									
500 West Fulton St. Sanford, Fl. 32771									
Phone: 407.322.6841									
Licenses:									
	MA								
Survey L.B. No. 7143 Landscp. Lic. No. LC0000298									
	CPH, Inc. 500 West Fulton St. Sanford, Fl. 32771 Phone: 407.322.6841								

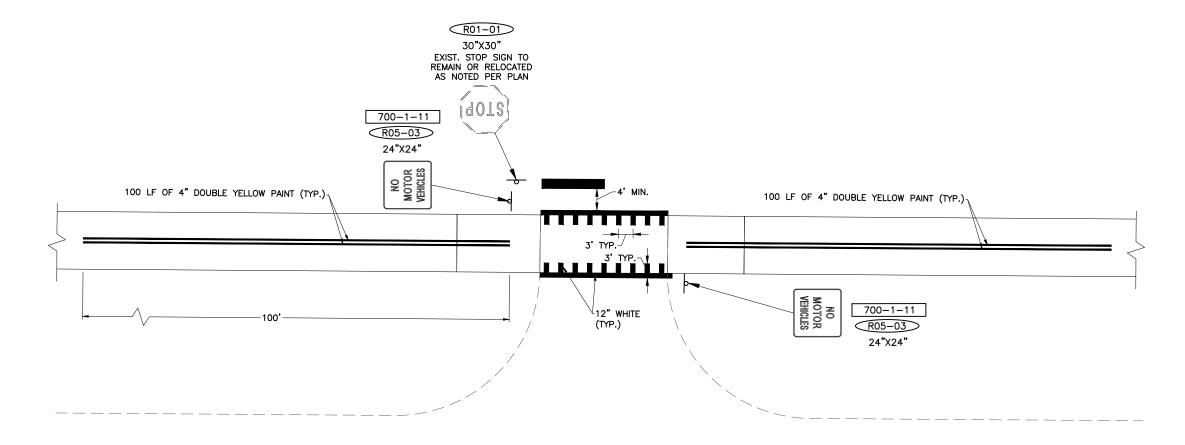
Signing & Pavement Marking Plans Summary of Pay Items





SHEET NOTE:
THIS DETAIL APPLIES TO THE CROSSINGS AT;
• E. 2ND ST.
• E. 4TH ST.
• E. 8TH ST.
• CELERY KEY DR.
• SANTA FE LN.
• THOROUGHBRED TR.
• CELERY POINTE RPD
• RIVERSIDE OAKS WAY
• CAMERON AVE.

No. Date	Revision By No. Date Revision	Ву	A Full Service A & E Firm Offices In	In: Desi	signed by: CJT	Date: 05/09/2024	Lake Monroe Trail Loop	Plans Prepared By: CPH, Inc.		Signing & Pavement	Sheet No.
am e.e.			Architects M / E / P • Puerto • Connect • Conn	o Rico ecticut	ecked by: KRL	scale: AS NOTED	Seminole County	500 West Fulton St. Sanford, Fl. 32771 Phone: 407.322.6841		Marking Plans	65
Eawling na		www.cpho	Environmental Surveyors • Marylar  COOPD.COM Landscape Architects Traffic/Transportation • Texas	and Appr	roved by: MCC No. S0989.1	©2024	Phase I	Licenses: Eng. C.O.A. No. 3215 Arch. Lic. No. AA2600926 Survey L.B. No. 7143 Landscp. Lic. No. LC0000298	MATTHEW C. CUSHMAN, P.E. FL P.E. No. 73150	Mid-Block Detail With Island	<b>3-</b> 3



TYPICAL SIGNS PER DETAIL

R05-03 24"X24"

SHEET NOTE:
THIS DETAIL APPLIES TO THE CROSSINGS AT;

• HISTORIC SANFORD MEMORIAL STADIUM DRIVEWAYS (2 EA)

• JEFF TRIPLET COMMUNITY CENTER DRIVEWAY

• ELLIOTT ST.

• S. SCOTT AVE.

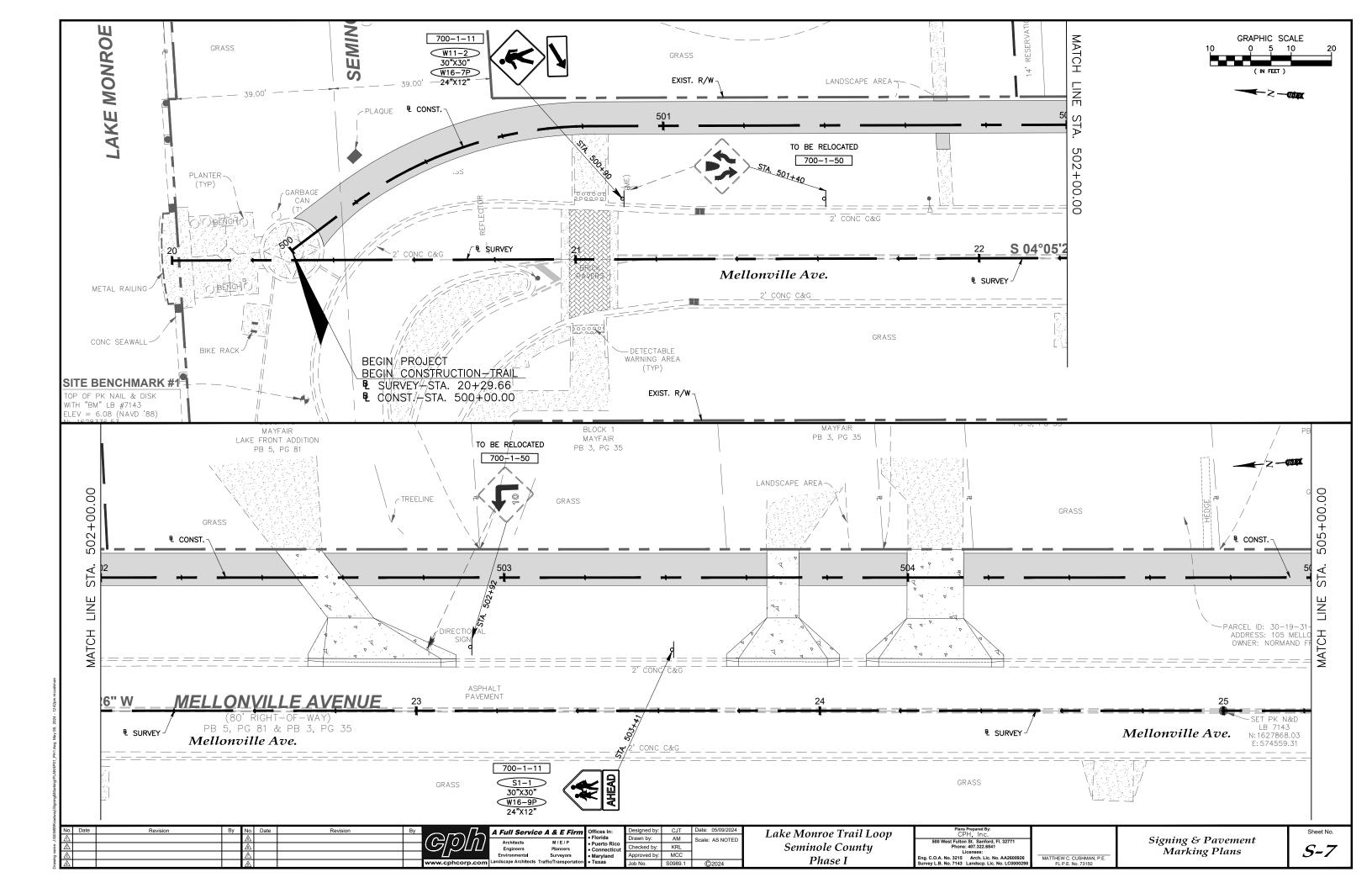
• WSDO 1400 AM RADIO STATION ENTRANCE,

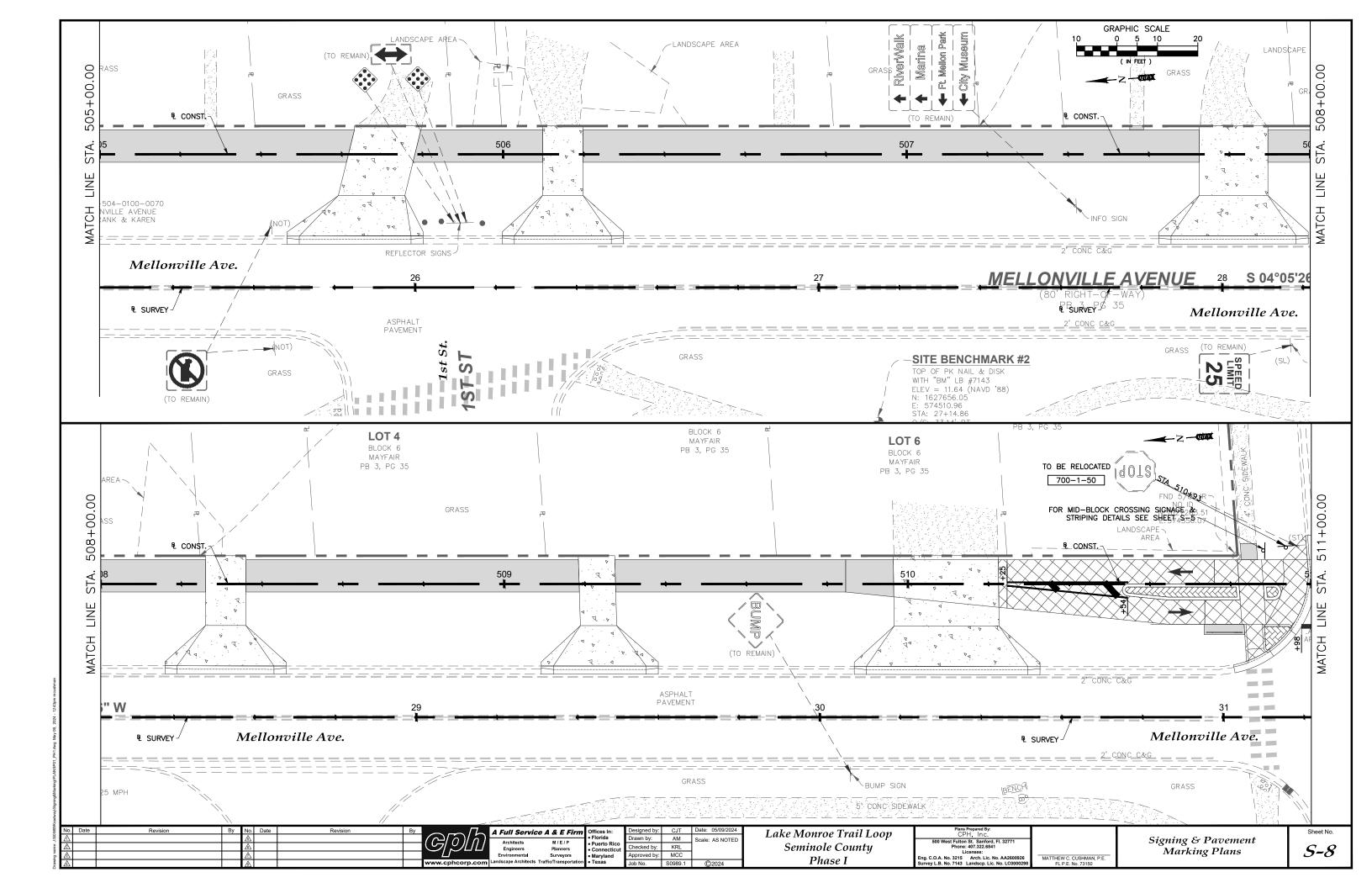
• CELERY OAKS LN.

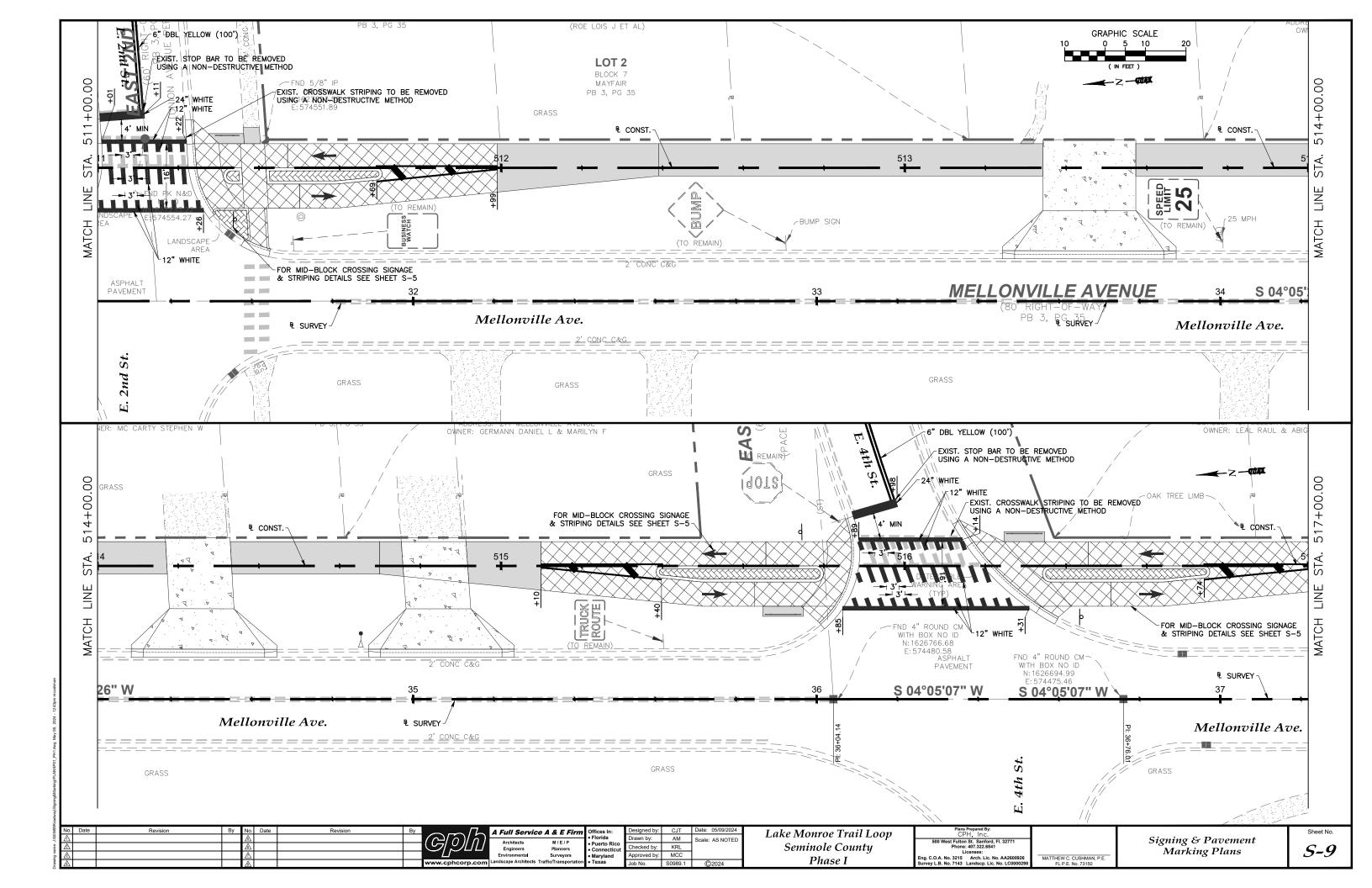
• CHICKASAW DR.

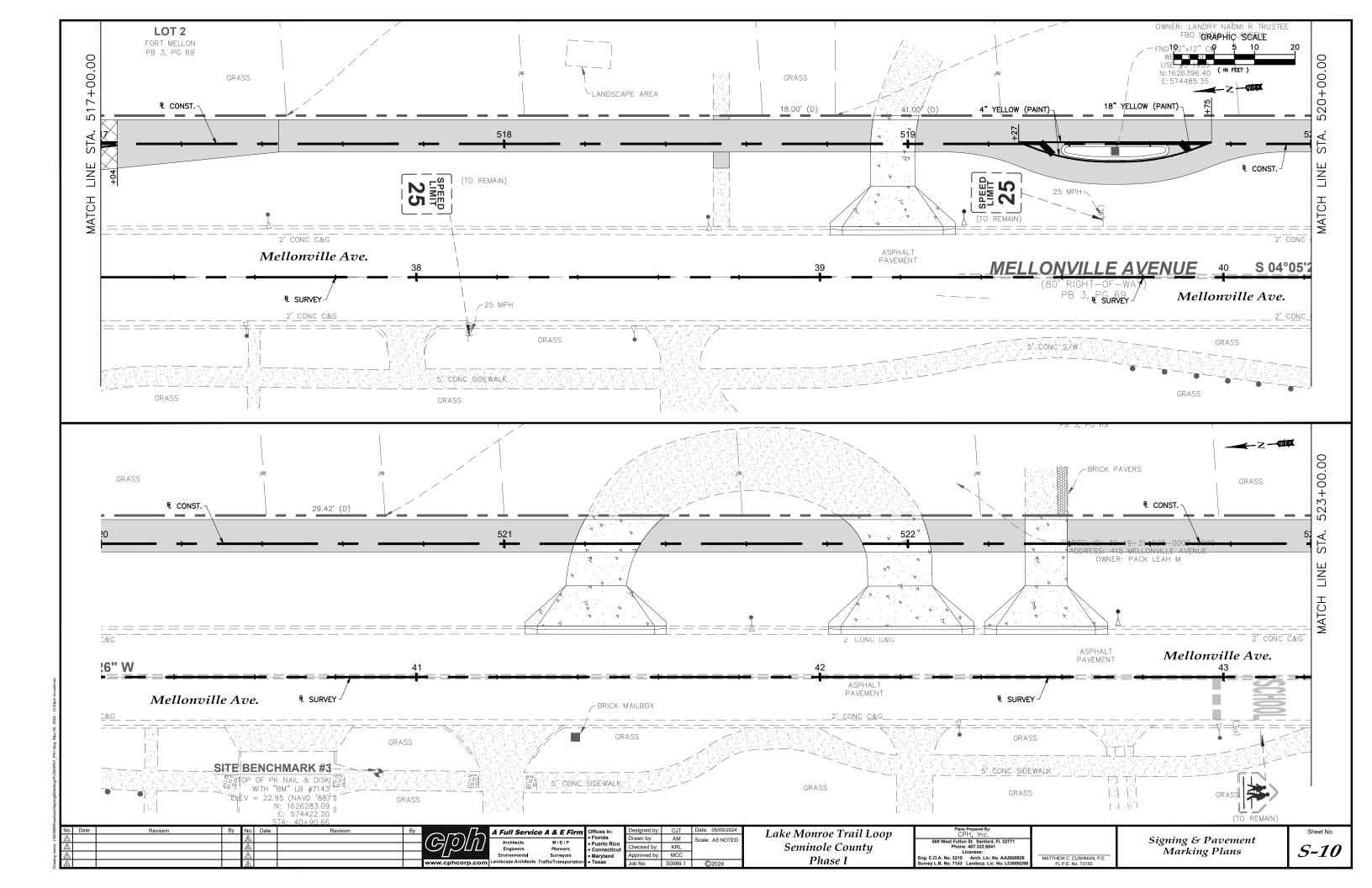
• PENINSULA POINT

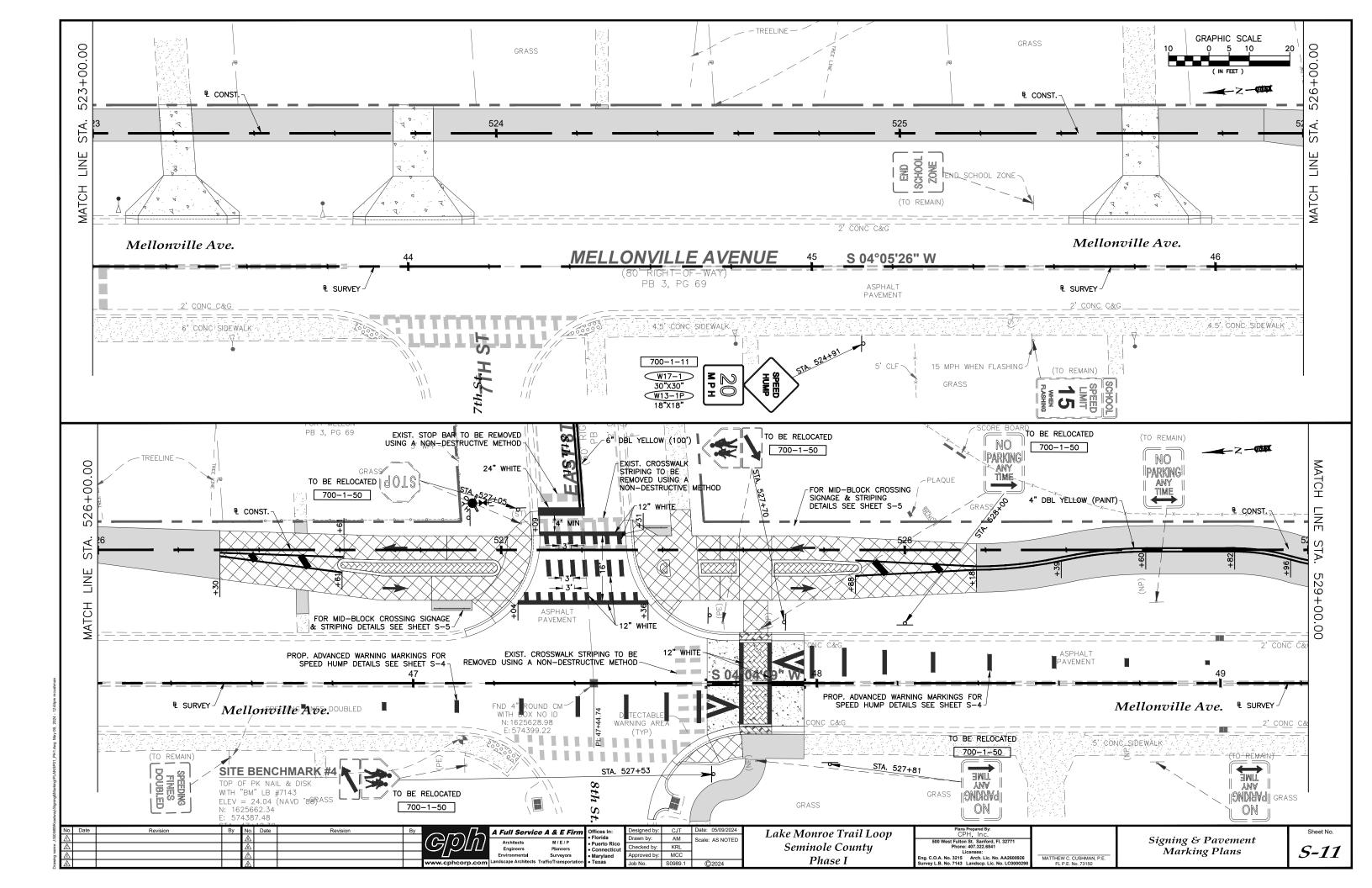
8 N	o. Date	Revision By No. Date	Revision By	A Full Servic	e A & E Firm	Offices In:	Designed by:	CJT Date: 05/09/2024	Lake Monroe Trail Loov	Plans Prepared By:		C: : C.D.	Sheet No.
0S1: Z	7			Avabitanta	M/E/P	Florida	Drawn by:	AM Scale: AS NOTED	Luke Monroe Truit Loop	500 West Fulton St. Sanford FI 32771		Signing & Pavement	1
ë	7			Engineers	Planners	Puerto Rico     Connecticut	Checked by:	KRL	Seminole County	Phone: 407.322.6841		Marking Plans	CC
g /	7	Δ		Environmental	Surveyors	Maryland	Approved by:	MCC	7	Licenses:	MATTHEW C CHICHMAN DE	Mid-Block Detail Without Island	3-0
Lawer Z		A	www.cphcorp.com	Landscape Architects	Traffic/Transportation	• Texas	Job No.	S0989.1 ©2024	Phase I	Survey L.B. No. 7143 Landscp. Lic. No. LC0000298	FL P.E. No. 73150	wiiu-biock Deiuii vviinoui isiunu	1

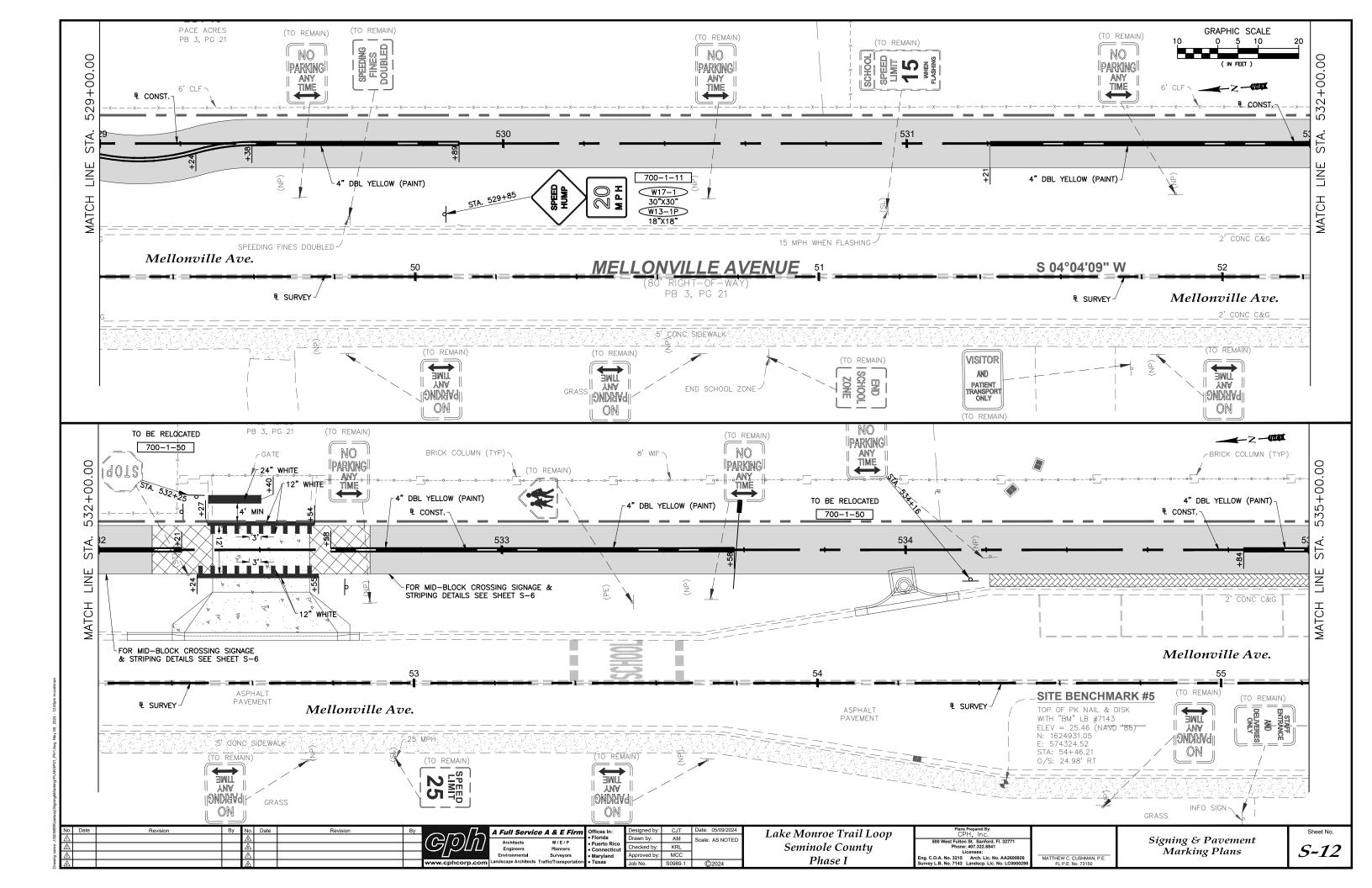


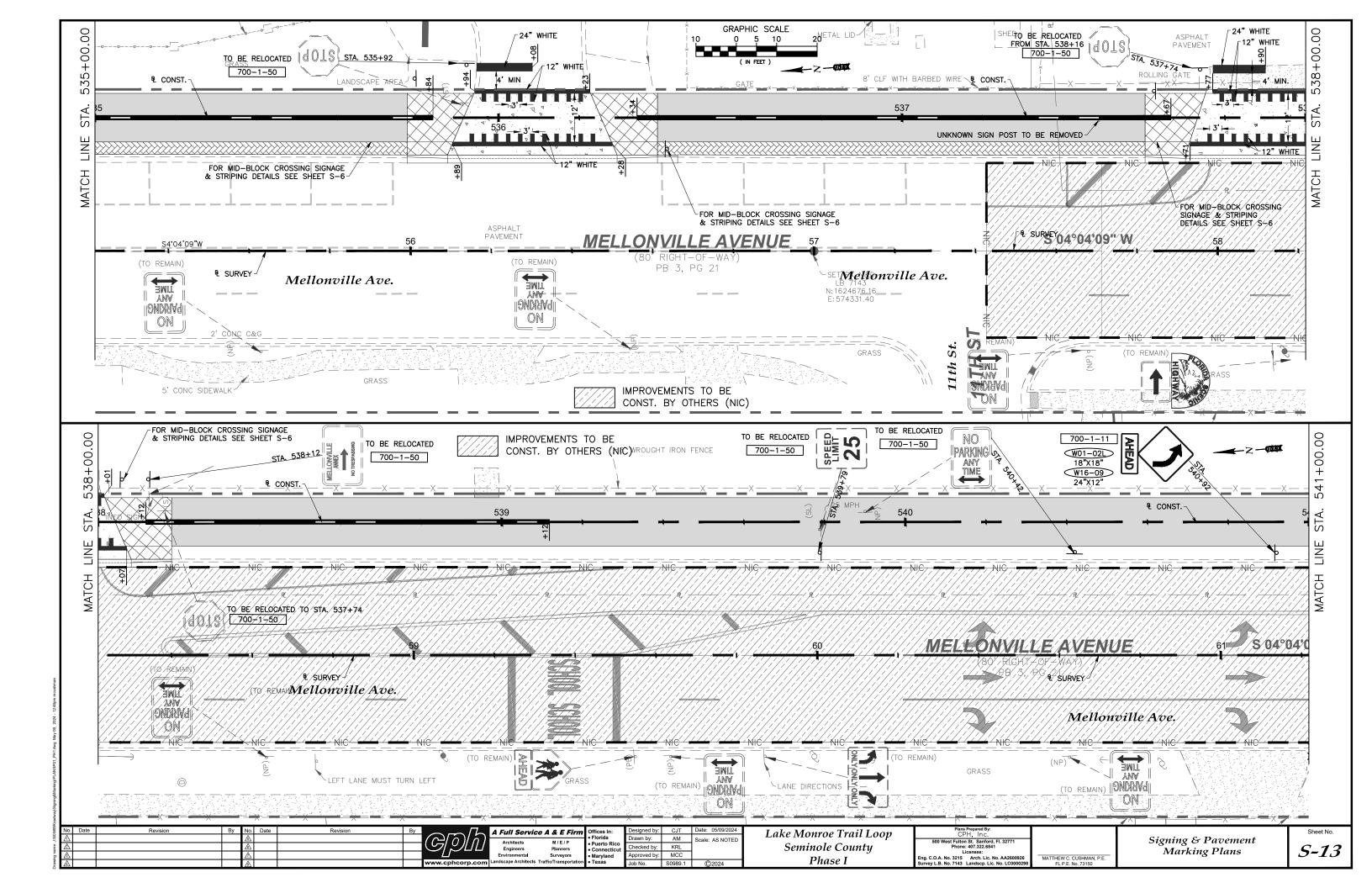


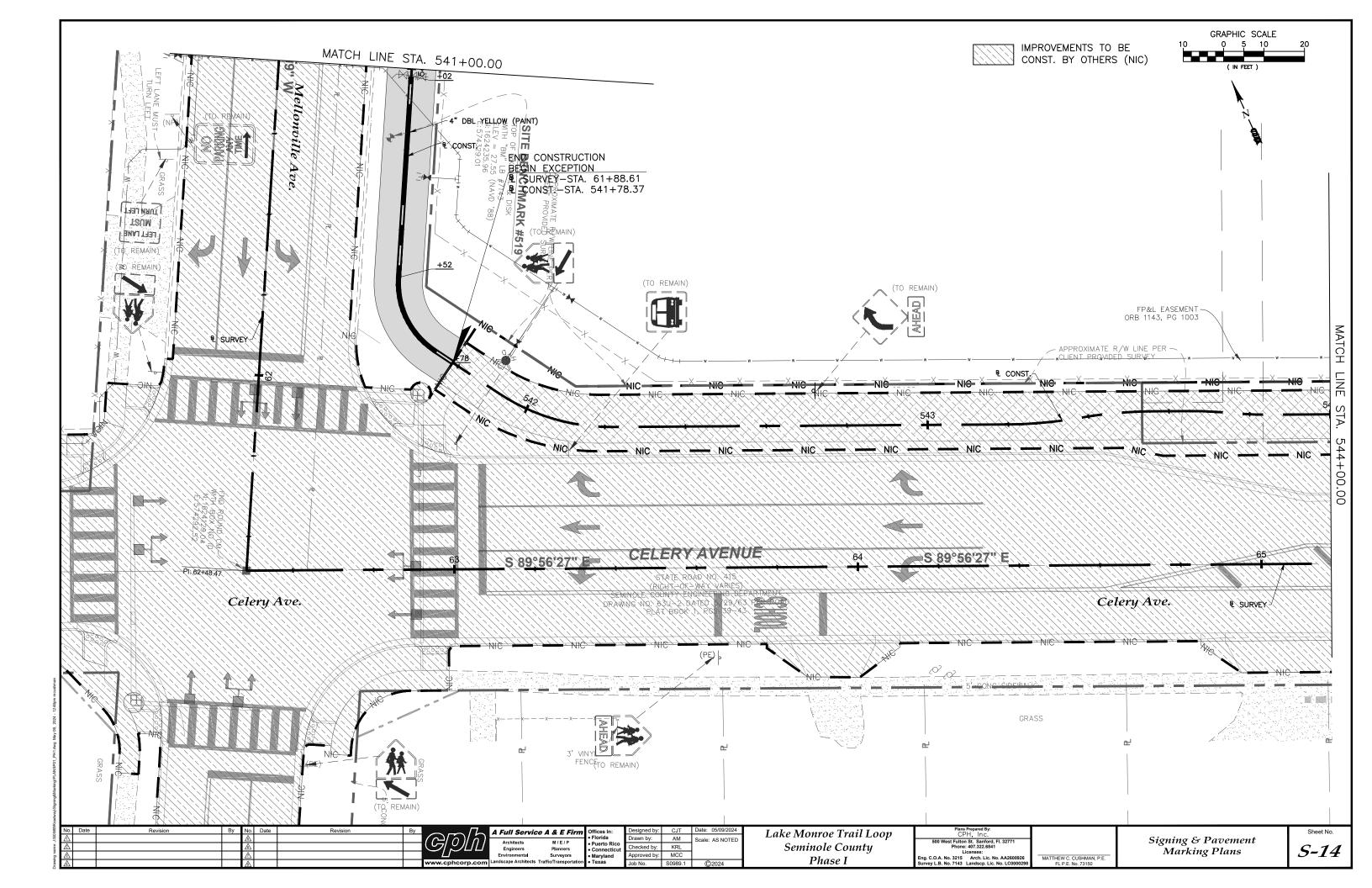


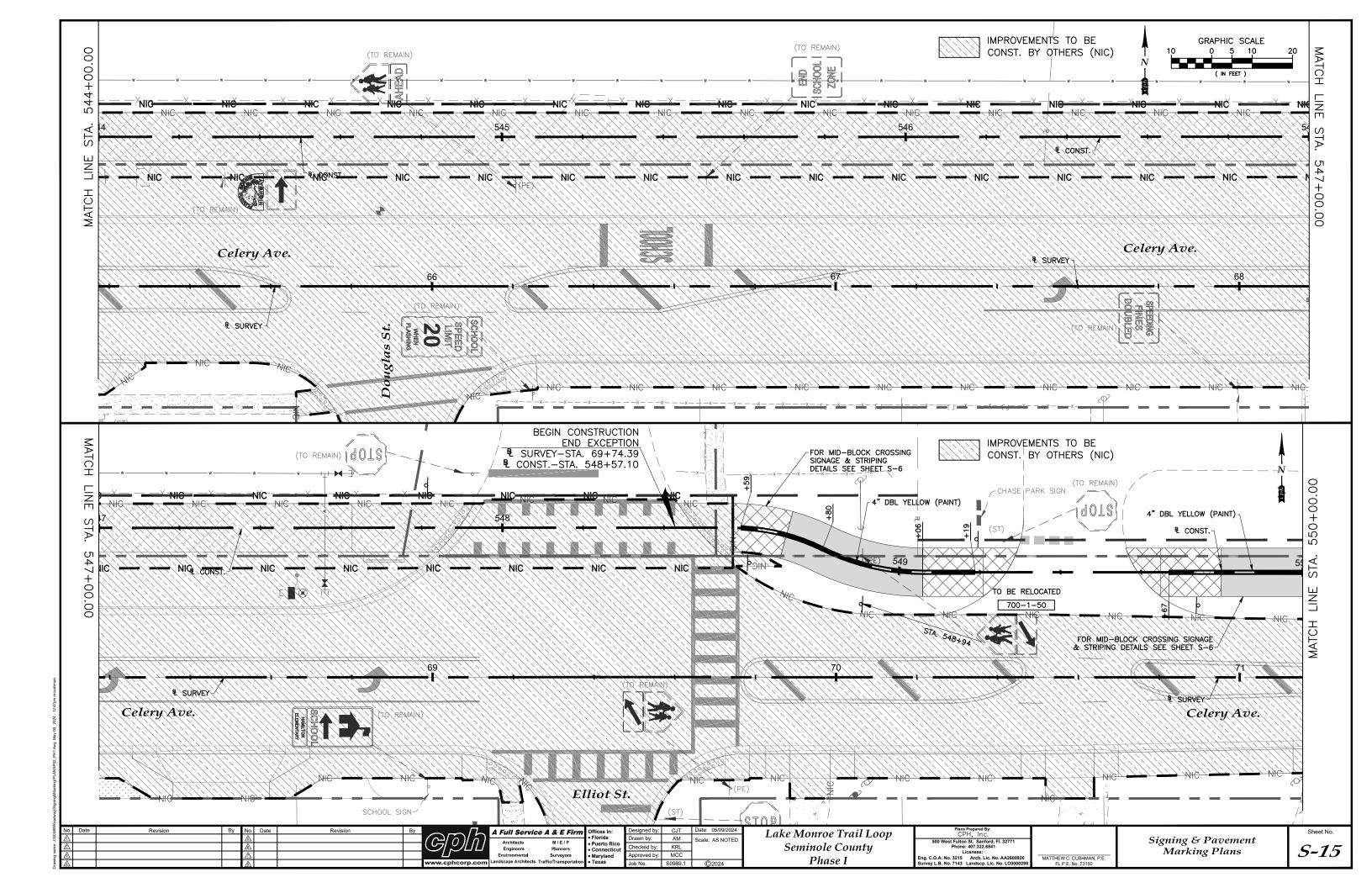


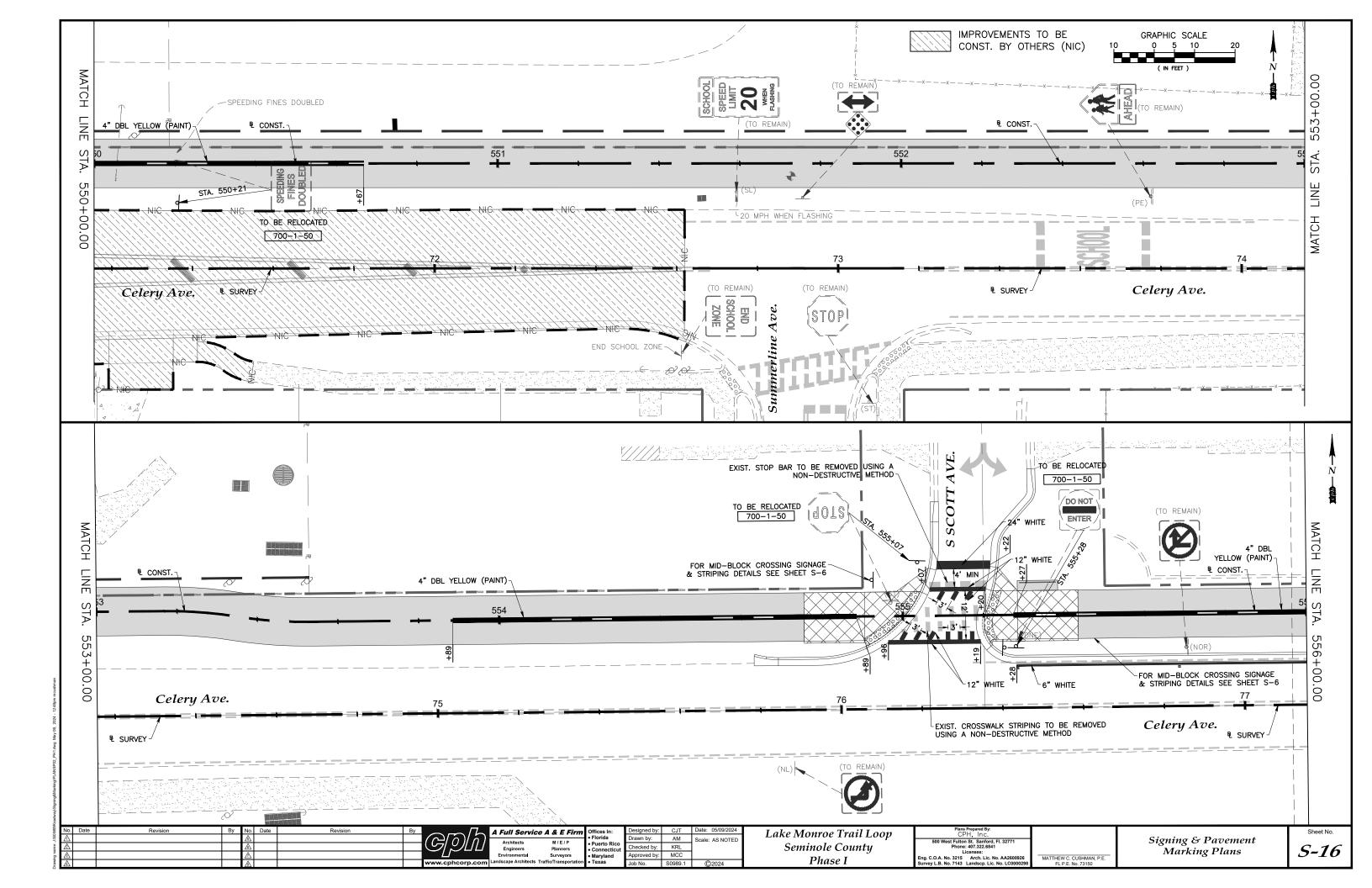


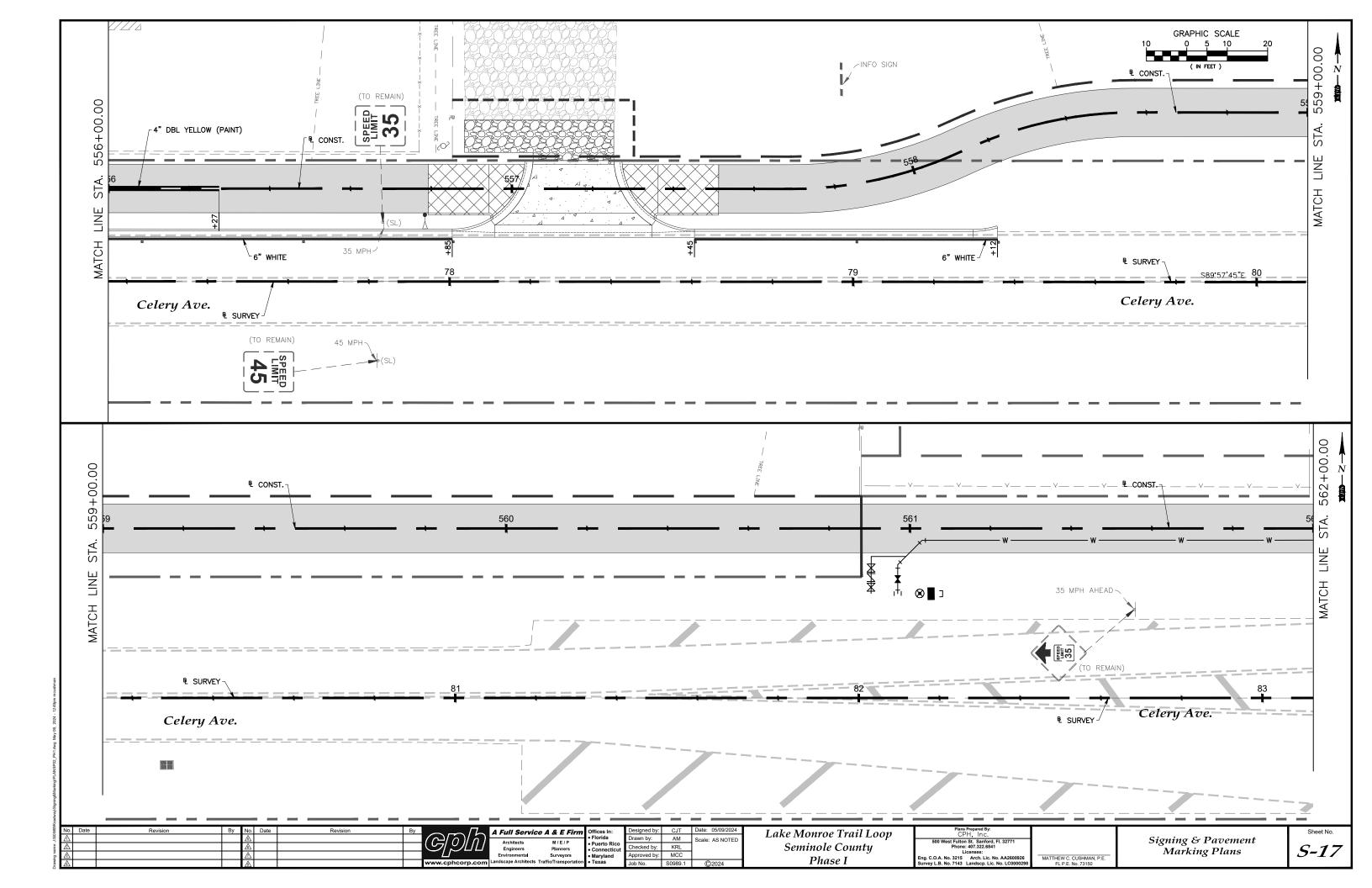


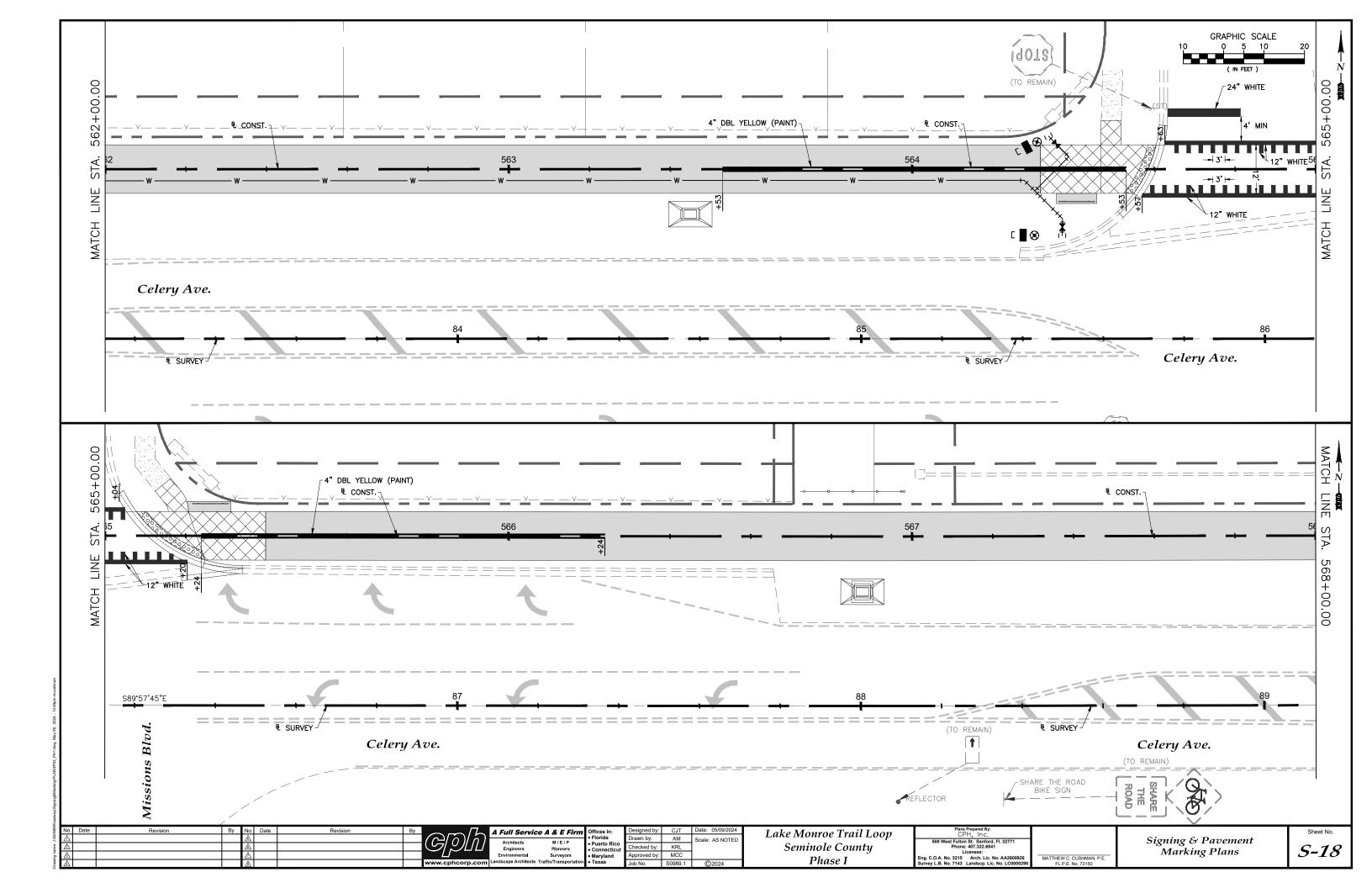


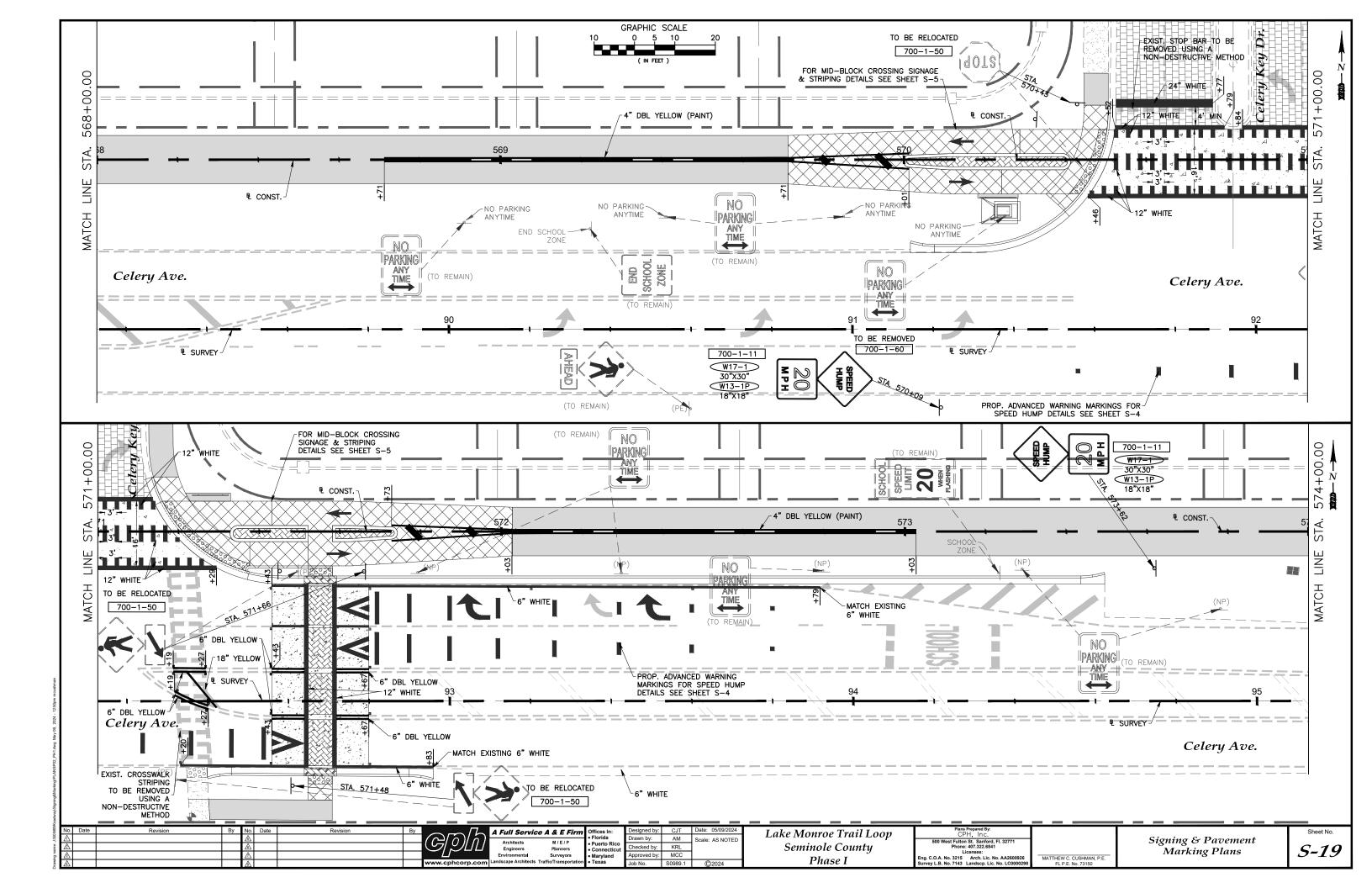


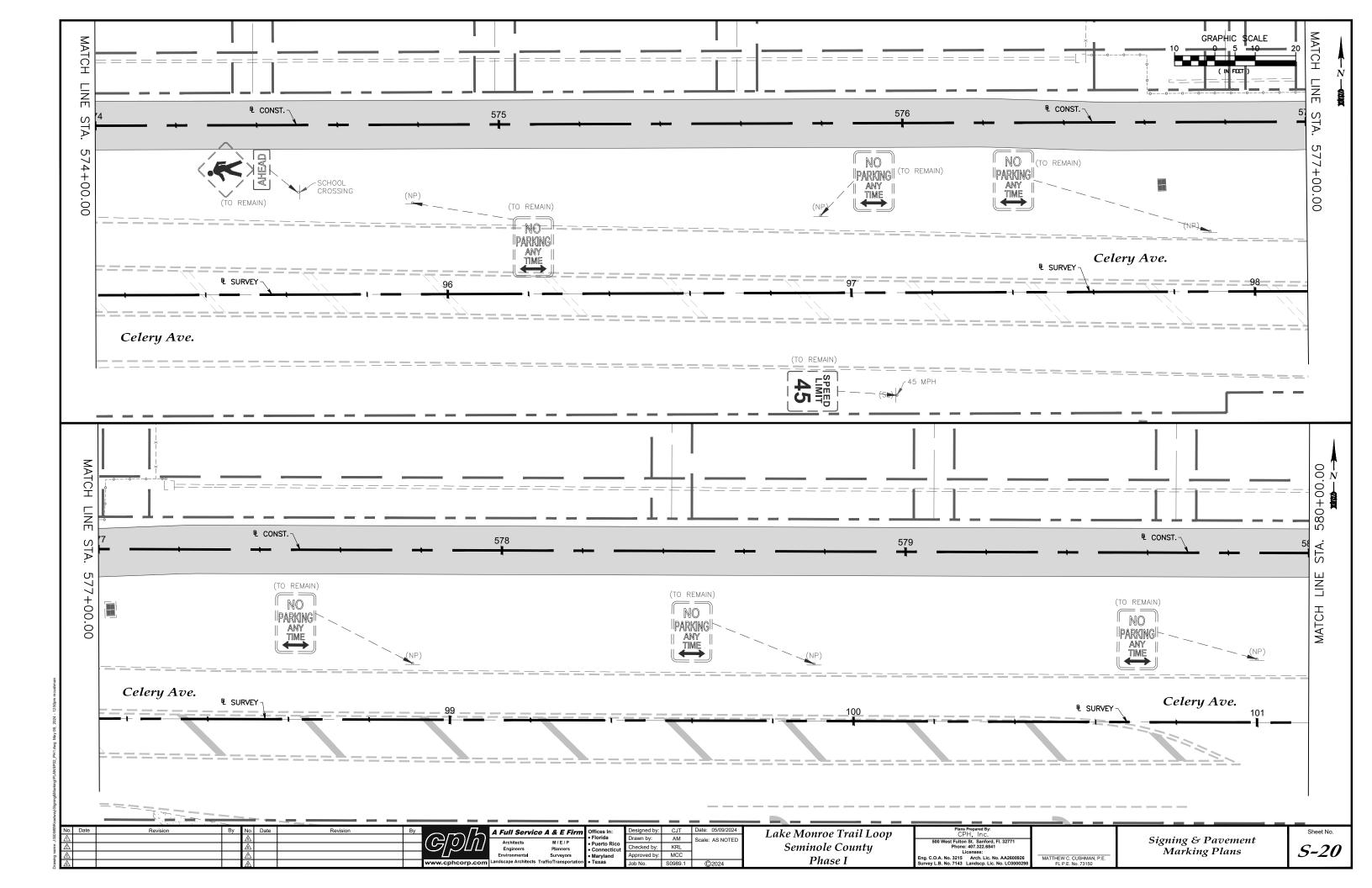


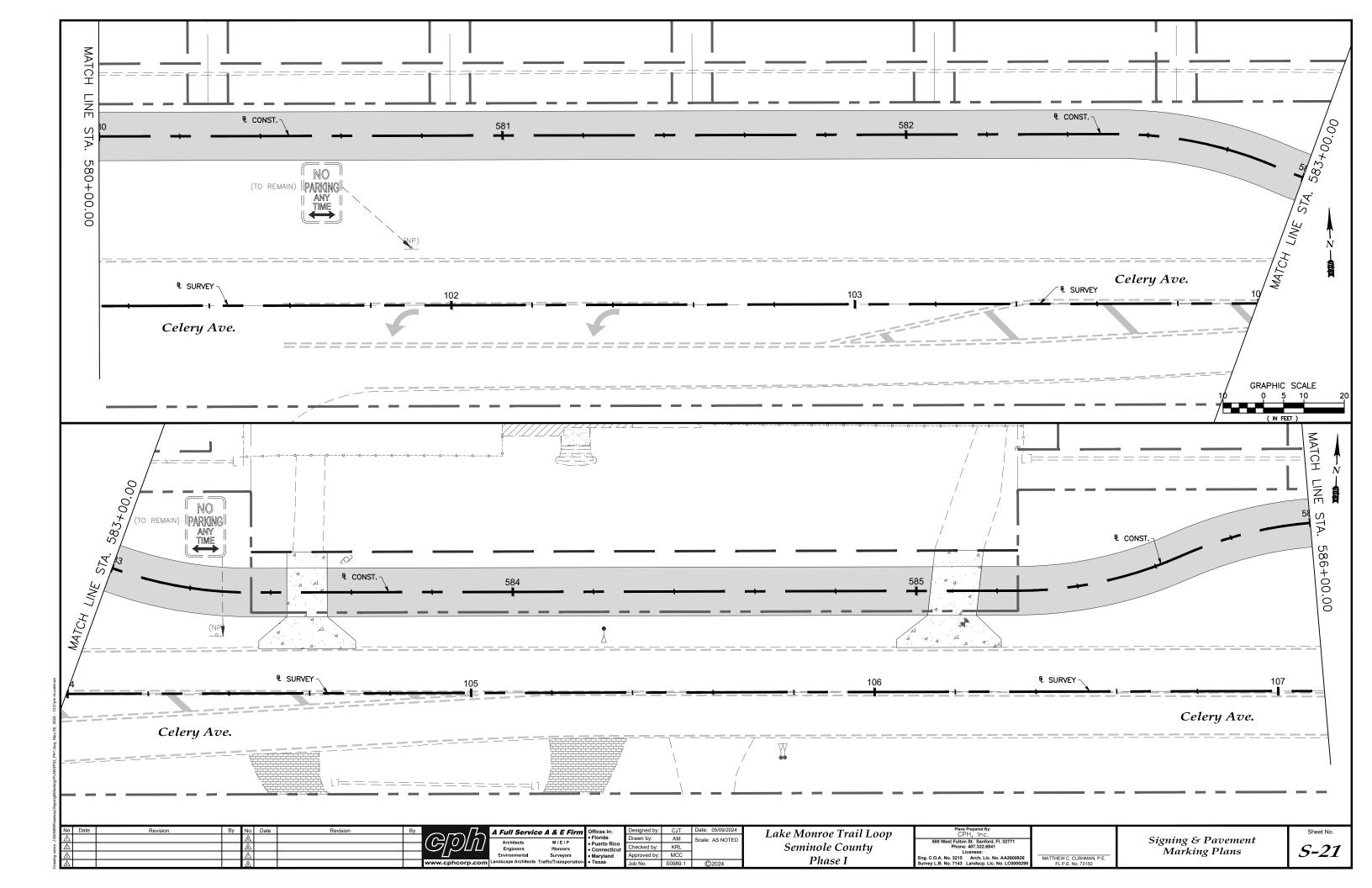


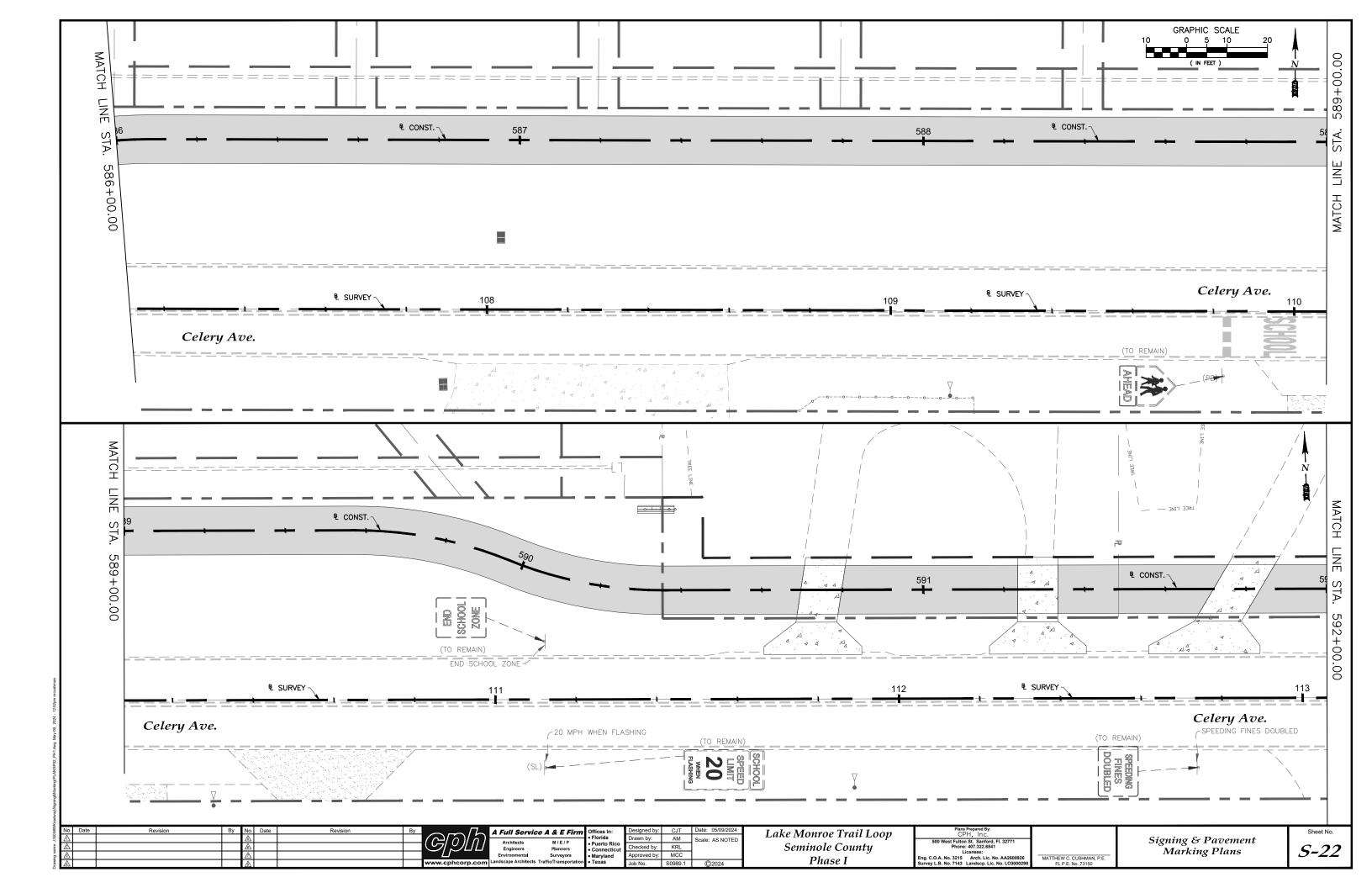


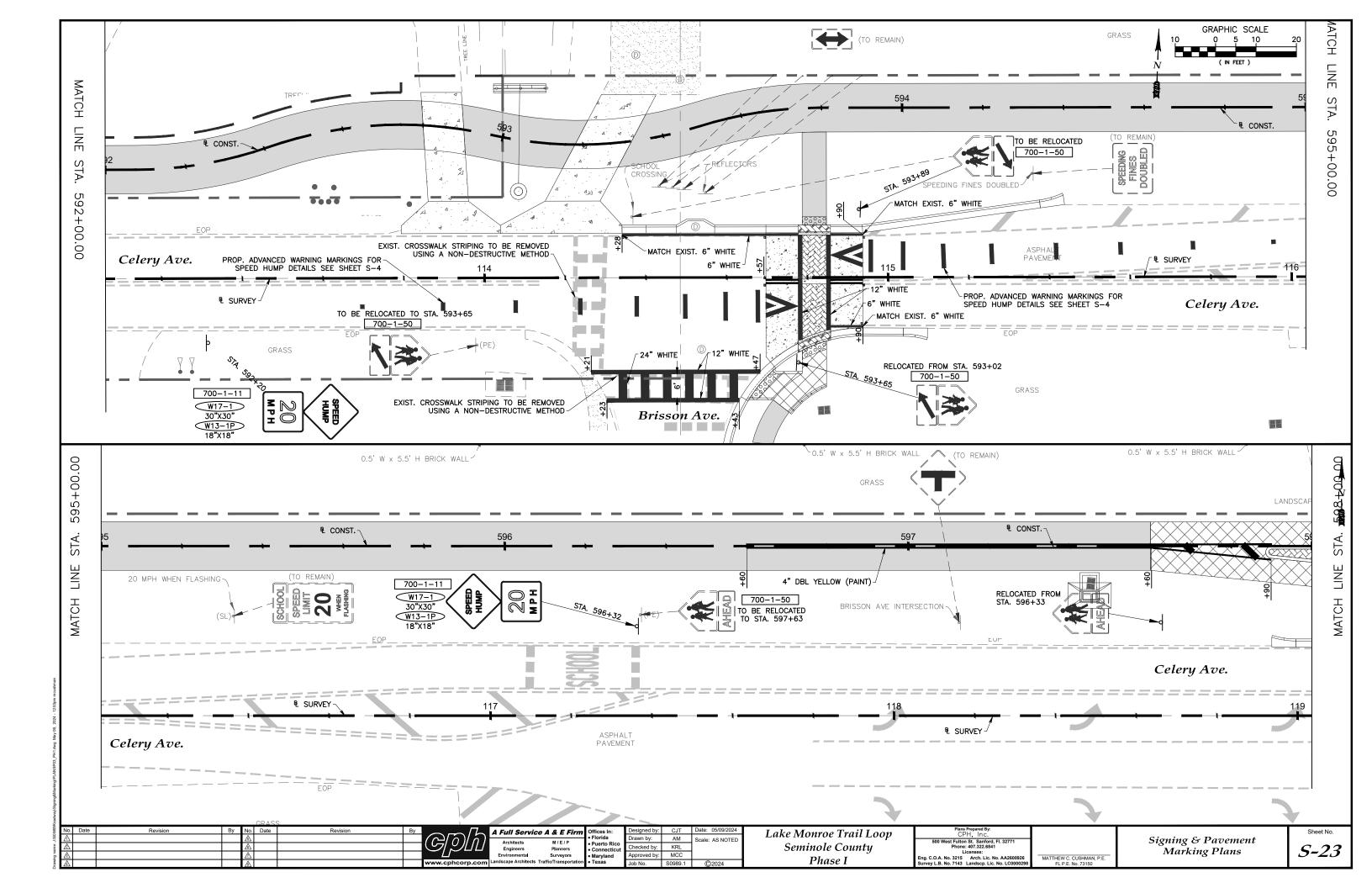


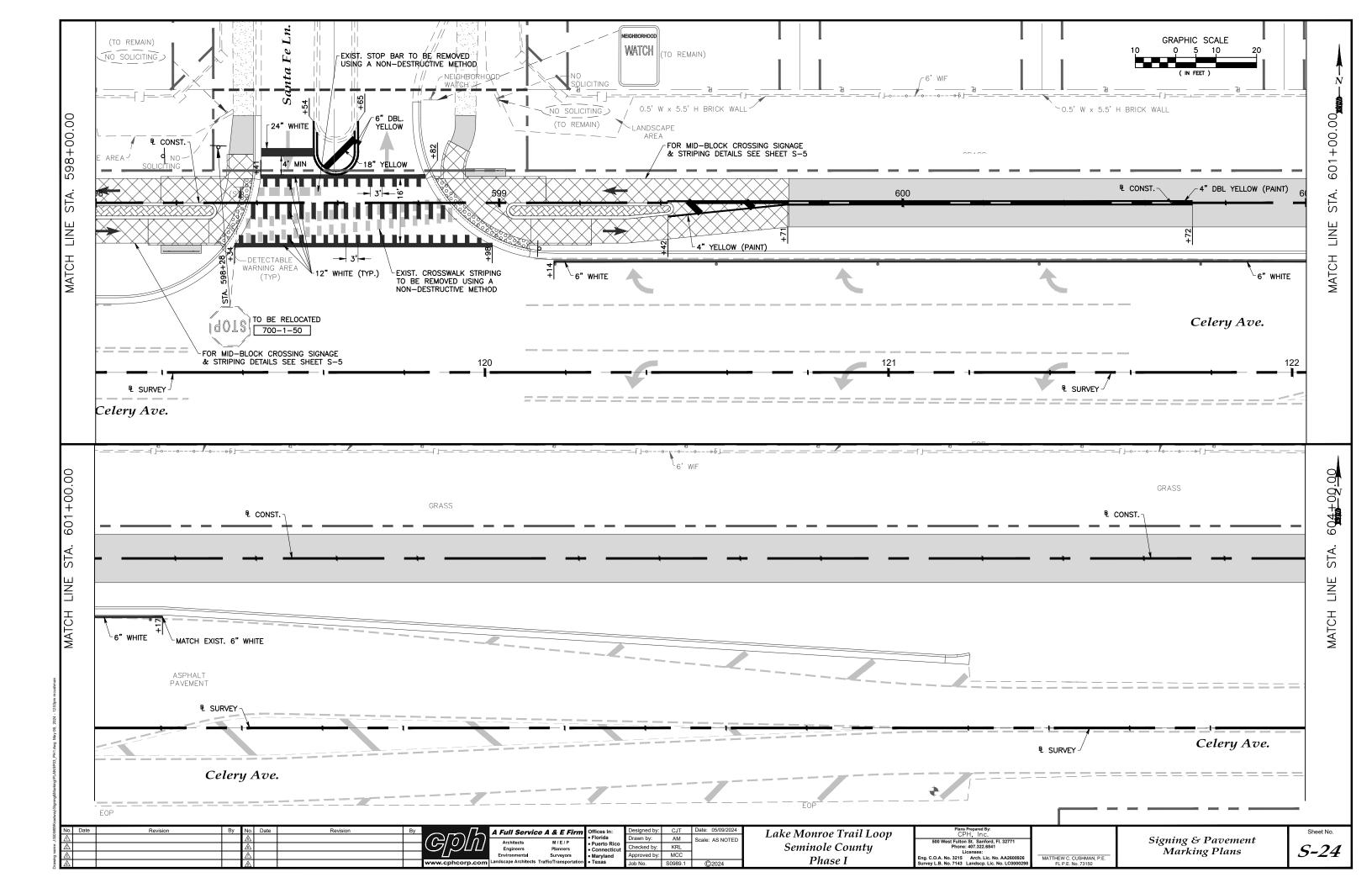


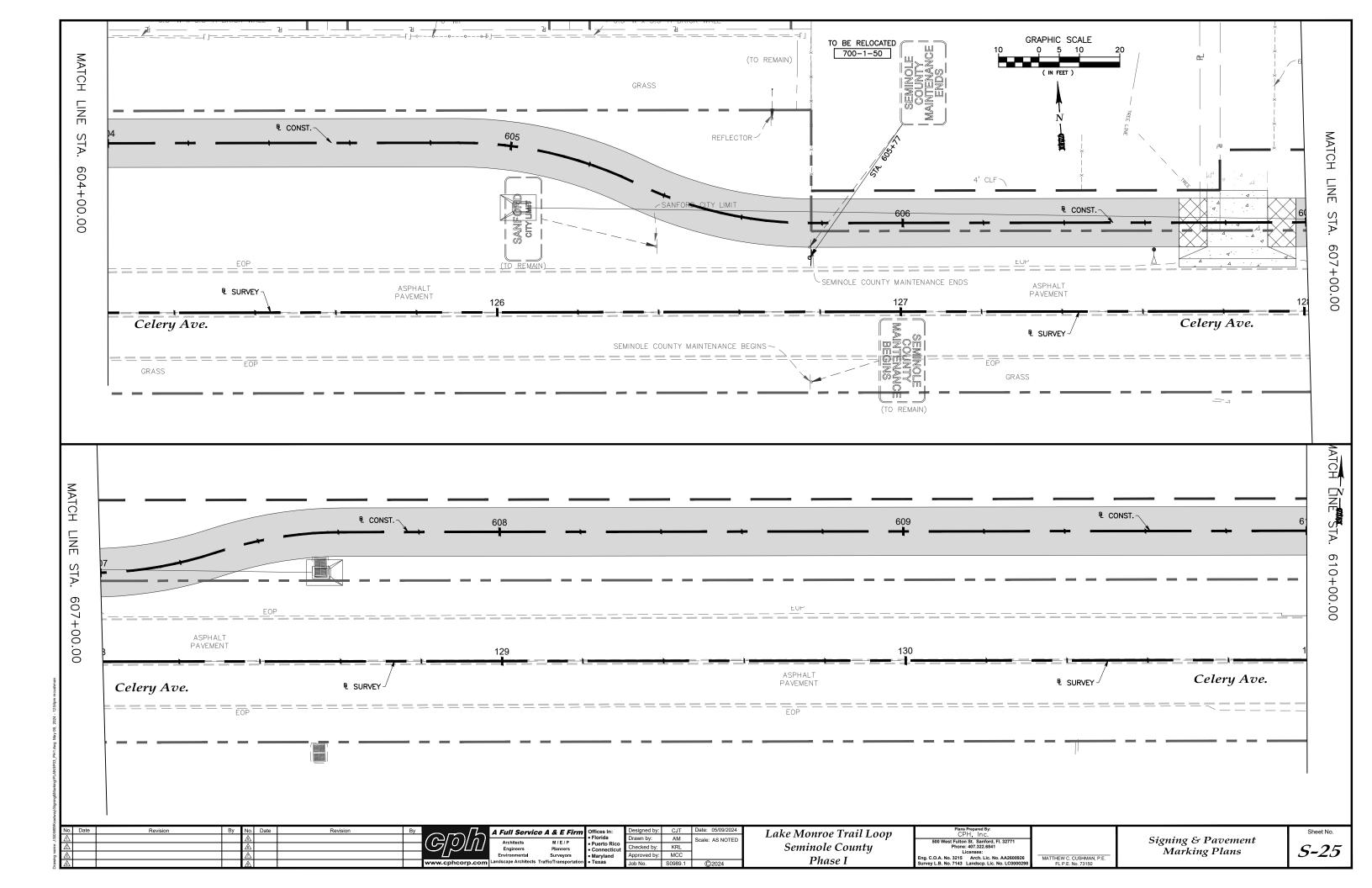


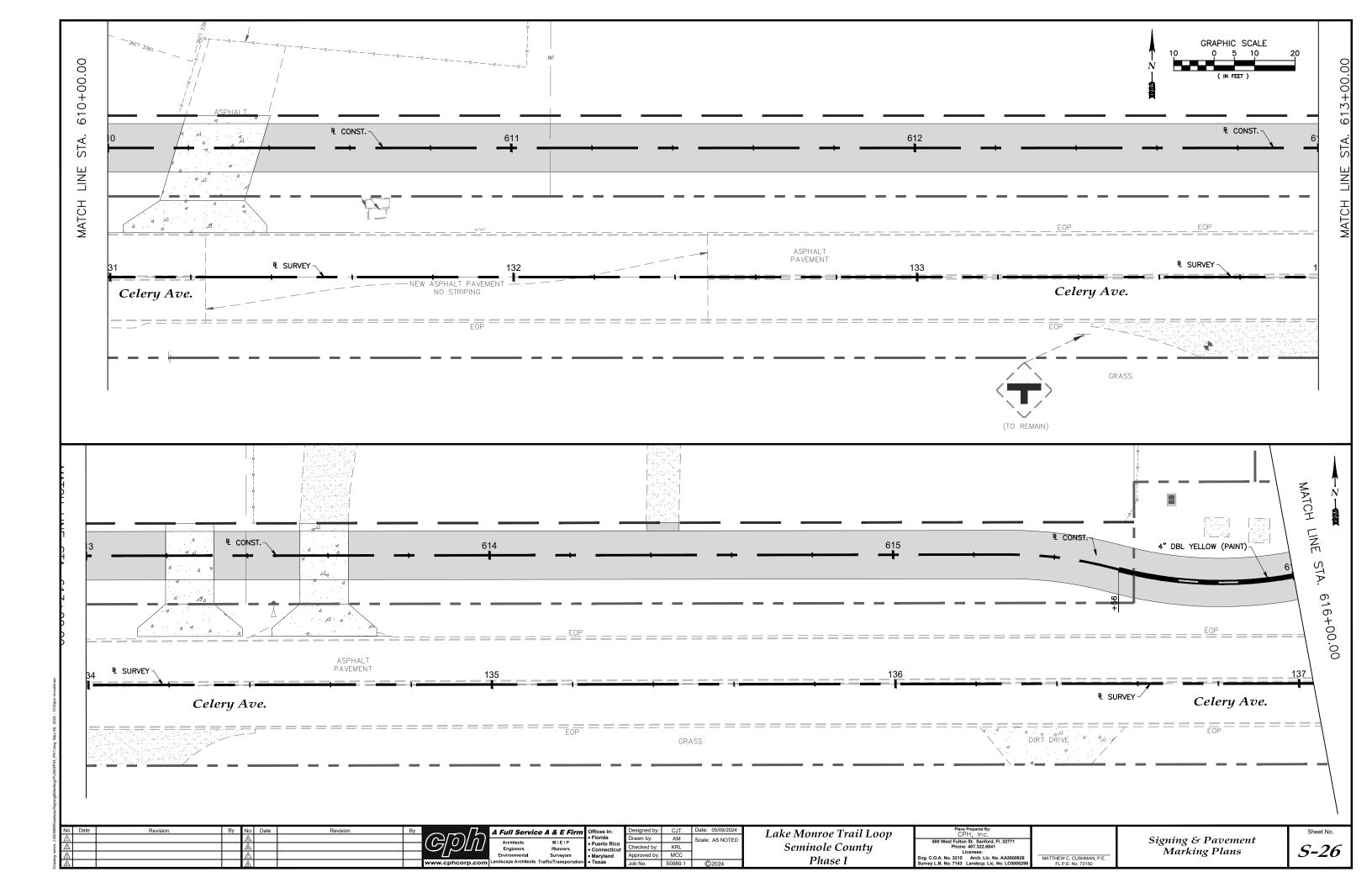


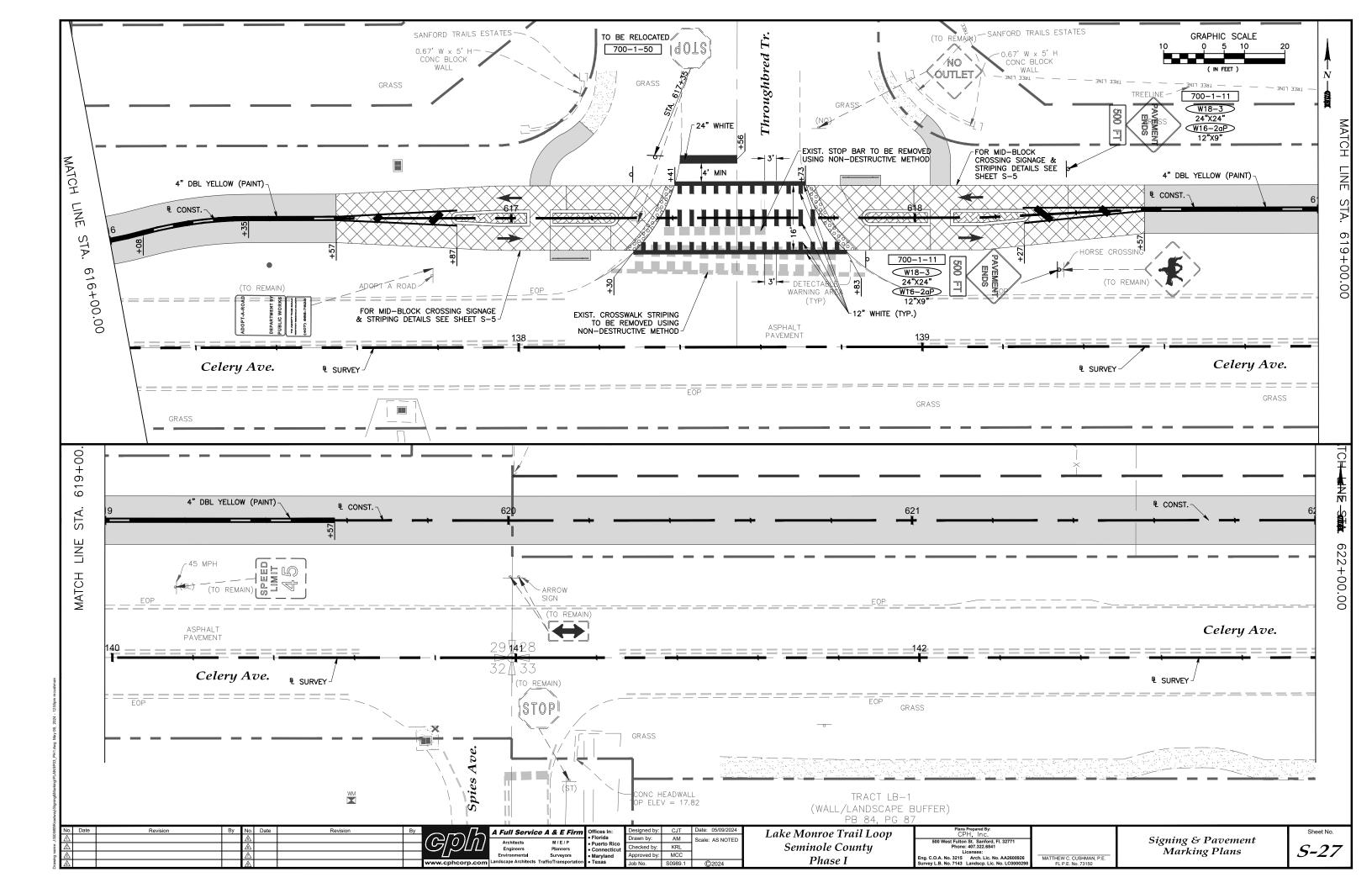


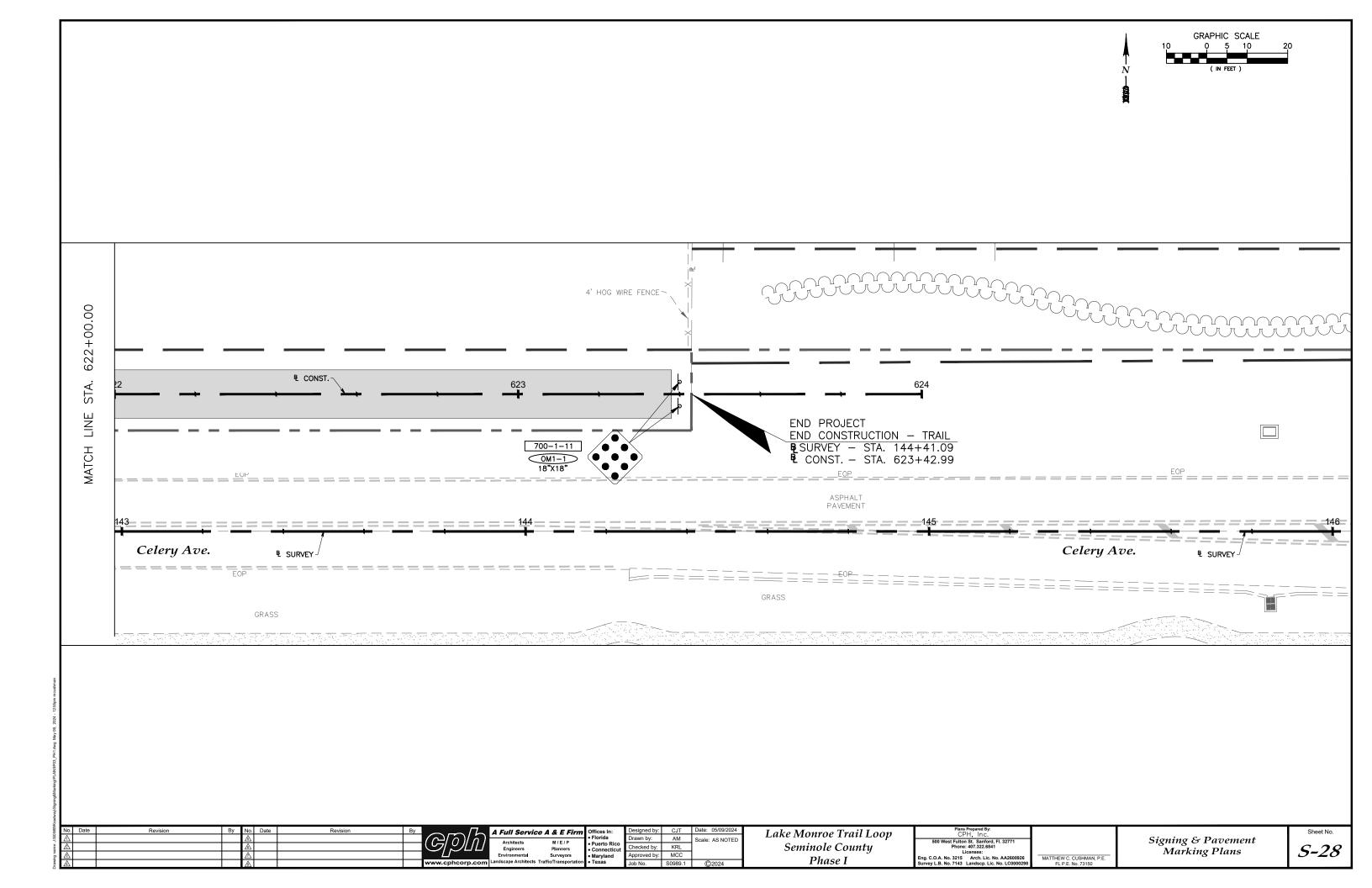












## DEFINITION OF ENTITIES:

- 1. FOR THE PURPOSE OF THESE PLANS, THE FOLLOWING ENTITIES SHALL BE DEFINED AS:
  - <u>MAINTAINING</u> <u>AGENCY</u> SEMINOLE COUNTY OR ANY OF THE COUNTY'S ASSIGNEES OR AUTHORIZED REPRESENTATIVES. E.G. COUNTY DEPARTMENTS, INSPECTORS, ENGINEERS OR OTHER INDIVIDUALS AS THE COUNTY MAY DESIGNATE AS REPRESENTING THE COUNTY'S INTERESTS.
  - ENGINEER OF RECORD MATTHEW C. CUSHMAN, P.E., CPH INC.
  - WATER MANAGEMENT DISTRICT ST. JOHNS RIVER WATER MANAGEMENT DISTRICT
  - CONTRACTOR THE INDIVIDUAL, FIRM, JOINT VENTURE, OR COMPANY PERFORMING THE WORK.

## TRAFFIC CONTROL GENERAL NOTES:

- 1. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING FULLY DETAILED MAINTENANCE—OF—TRAFFIC PLANS TO BE UTILIZED FOR TRAFFIC CONTROL OF VEHICLES AND PEDESTRIANS THROUGH THE CONSTRUCTION AREA. THE PREPARATION OF THESE PLANS MUST CONFORM TO ALL THE REQUIREMENTS IDENTIFIED ON THIS PLAN SHEET. THESE PLANS MUST BE PREPARED AND SIGNED AND SEALED BY A FLORIDA REGISTERED ENGINEER WHO HAS THE NECESSARY TRAINING AND EXPERIENCE. THE ENGINEER WHO WILL PREPARE THE PLANS AND THE CONTRACTOR'S PERSONNEL WHO WILL ADMINISTER THE PLANS MUST MEET THE F.D.O.T. TRAINING REQUIREMENTS (F.D.O.T. TRAINING PROCEDURE #625—010—010A).
- 2. THE CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN SIGNS WHICH STATE "BUSINESS ENTRANCE" TO BE PROVIDED AT ALL COMMERCIAL DRIVEWAYS ALONG THE PROJECT. THESE SIGNS SHALL HAVE WHITE LETTERING WITH BLUE BACKGROUND AND 4" LETTERS. SIGNING SHALL BE IN ACCORDANCE WITH "THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) LATEST EDITION.
- 3. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH F.D.O.T. STANDARD PLANS, INDEX 102-600 SERIES (LATEST EDITION) WITH THE FOLLOWING INDICES AT A MINIMUM: FDOT SPI No.'S 102-601, 102-602, 102-603, 102-604 & 102-660.
- 4. TRAFFIC SHALL BE MAINTAINED ON PAVED SURFACES AT ALL TIMES. TEMPORARY TRAVEL LANES SHALL BE A MINIMUM WIDTH OF 10'.
- 5. TRAFFIC CONDITIONS (ACCIDENTS AND OTHER UNFORESEEN CONDITIONS) MAY REQUIRE THE COUNTY TO RESTRICT OR REMOVE LANE CLOSURES OR CHANNELIZATIONS OR REVISE THE IMPLEMENTED MAINTENANCE OF TRAFFIC PLAN. THE CONTRACTOR SHALL RESPOND AND PROVIDE ADJUSTMENTS AS DIRECTED BY THE COUNTY WITHOUT DELAY UNDER THESE CONDITIONS. THE CONTRACTOR SHALL ALSO RESPOND WITHIN 30 MINUTES UPON NOTIFICATION BY THE PROJECT ENGINEER TO ANY REQUESTS FOR CORRECTION, IMPROVEMENT OR MODIFICATION TO THE TRAFFIC CONTROL PLAN AND/OR DEVICES.
- 6. ACCESS TO ALL PROPERTIES SHALL BE MAINTAINED AT ALL TIMES.
- 7. EXISTING DRAINAGE SYSTEMS MUST BE MAINTAINED. TEMPORARY SWALES, CULVERTS, PIPES, ETC. ARE TO BE CONSTRUCTED WITHIN THE RIGHT-OF-WAY AS REQUIRED.
- 8. TEMPORARY PAVEMENT MARKINGS SHALL INCLUDE LANE LINES, EDGE LINES, STORAGE AREAS, STOP BARS, AND MESSAGES TO FULLY DEFINE TRAFFIC MOVEMENT. ALL TEMPORARY MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 102 OF THE F.D.O.T. STANDARD SPECIFICATIONS. ALL MARKINGS SHALL BE REFLECTORIZED. THESE TEMPORARY MARKINGS SHALL BE PROVIDED AS SOON AS POSSIBLE AT THE END OF EACH DAY'S PAVING OPERATIONS AND PRIOR TO OPENING TO TRAFFIC.
- 9. UNLESS OTHERWISE SPECIFIED, THE CROSS SLOPE FOR ALL TEMPORARY PAVEMENT WHICH ABUTS EXISTING OR NEW PAVEMENT SHALL MATCH THE CROSS SLOPE OF THE ABUTTING PAVEMENT. CROSS SLOPE TRANSITIONS SHALL CONFORM TO F.D.O.T. STANDARD PLANS INDEX 000-511. THE CONTRACTOR SHALL INSURE ADEQUATE DRAINAGE OF ALL TEMPORARY PAVEMENT.
- 10. A DISCUSSION OF LANE CLOSURE OPERATIONS WILL BE MADE PART OF ALL PRECONSTRUCTION CONFERENCES. THE CONTRACTOR WILL BE REQUIRED TO SUBMIT A WRITTEN PLAN WHICH DETAILS EACH ACTIVITY INVOLVED IN THE LANE CLOSURE. THE PLAN SHALL INCLUDE BACK—UP PLANS FOR ACTIVITIES CRITICAL TO REOPENING THE LANES TO TRAFFIC, AND THE BACK—UP FOR ALL SUBCONTRACTOR OPERATIONS AS WELL AS THE PRIME CONTRACTORS.
- 11. ALL EXISTING PAVEMENT MARKINGS OUTSIDE THE LIMITS OF CONSTRUCTION THAT ARE ALTERED OR DAMAGED SHALL BE REPLACED UPON COMPLETION OF THE PROJECT AT THE CONTRACTOR'S EXPENSE.
- 12. TEMPORARY PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE F.D.O.T. "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", SECTION 102-5.1. TEMPORARY ROADWAYS AND WIDENING SHALL BE ASPHALT PAVED.

- 13. NOTIFICATION OF LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 14 WORKING DAYS PRIOR TO CLOSURE OR DETOUR BY SUBMITTING THE REQUIRED LANE CLOSURE FORM, SKETCHES, CALCULATIONS, AND OTHER DATA TO THE MAINTAINING AGENCY.
- 14. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE CONSTRUCTION IN THAT AREA.
- 15. NOTIFICATION OF LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED 14 WORKING DAYS PRIOR TO CLOSURE OR DETOUR BY SUBMITTING THE REQUIRED LANE CLOSURE FORM, SKETCHES, CALCULATIONS, AND OTHER DATA TO THE AGENCY IN RESPONSIBLE CHARGE.
- 16. THE CONTRACTOR SHALL COVER WORK ZONE SIGNS WHEN CONDITIONS NO LONGER WARRANT THEIR USE.
- 17. CONTRACTOR SHALL REMOVE, RELOCATE OR COVER ANY EXISTING OR PROPOSED SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. WHEN THE CONFLICT NO LONGER EXISTS, THE CONTRACTOR SHALL RESTORE THE SIGNS TO THEIR ORIGINAL POSITION.
- 18. EACH EXISTING STREET NAME AND STOP SIGN AFFECTED BY CONSTRUCTION SHALL BE RELOCATED AND MAINTAINED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE SIGNS SHALL BE RESTORED TO THEIR ORIGINAL POSITION.
- 19. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE REMOVAL OF STORM WATER FROM ROADWAYS UTILIZED FOR MAINTAINING TRAFFIC IN A MANNER APPROVED BY THE MAINTAINING AGENCY.
- 20. THE CONTRACTOR SHALL REMOVE ANY EXISTING OR TEMPORARY PAVEMENT MARKINGS THAT CONFLICT WITH THE TRAFFIC CONTROL PLANS. THE CONTRACTOR SHALL UTILIZE A NON-DESTRUCTIVE F.D.O.T. APPROVED METHOD FOR STRIPING REMOVAL. EXCESSIVE DAMAGE TO EXISTING ASPHALT AS DETERMINED BY THE MAINTAINING AGENCY SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
- 21. TEMPORARY LANE TRANSITIONS, SHIFTS, AND CROSSOVERS SHALL HAVE SOLID LANE AND EDGE LINES FOR THE LENGTH OF THE TRANSITION, SHIFT OR CROSSOVER. IN ADDITION, SOLID LANE AND EDGE LINES SHALL EXTEND 100 FT. ON TANGENT BEYOND EACH END OF THE TRANSITION, SHIFT, OR CROSSOVER. EXCEPTION SHALL BE THROUGH INTERSECTIONS WHERE 2' 4' SKIP LINES WILL BE PLACED.
- 22. CONTRACTOR SHALL NOTIFY THE MAINTAINING AGENCY 48 HOURS PRIOR TO ANY MODIFICATION OF AN EXISTING TRAFFIC SIGNAL SYSTEM. THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR THE MAINTENANCE OF THE EXISTING OR TEMPORARY TRAFFIC SIGNAL(S) WITHIN THE PROJECT LIMITS.
- 23. THE CONTRACTOR SHALL MAINTAIN ONLINE COMMUNICATION OF EXISTING OR TEMPORARY SIGNALIZATION VIA INTERCONNECT OR PHONE LINE DURING CONSTRUCTION. CONTRACTOR SHALL PROVIDE TEMPORARY LINES AND CONNECTIONS IF NECESSARY.
- 24. ALL EXISTING SIDEWALKS WITHIN THE RIGHT-OF-WAY SHALL REMAIN OPEN OR PROVISION OF A TEMPORARY WALKWAY SHALL BE PROVIDED IN ACCORDANCE WITH THE CURRENT VERSION OF FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS INDEX NO. 102-660 UNLESS OTHERWISE APPROVED BY THE MAINTAINING AGENCY.
- 25. ALL LANES MUST BE REOPENED TO TRAFFIC WITHIN 12 HOURS AFTER RECEIVING NOTIFICATION OF A HURRICANE EVACUATION OR ANY OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE MAINTAINING AGENCY.



ned by:	CJT	Date: 05/09/2024	
by:	AM	Scale: AS NOTED	
ed by:	KRL		
ved by:	MCC		
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