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TCP-1	TCP GENERAL NOTES

LIST OF REVISED DRAWINGS			
REV.	DATE	COMP. SET	SHEETS

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.

MULTI-USE PATH CONSTRUCTION PLANS
FOR
LAKE MONROE TRAIL LOOP
SEMINOLE COUNTY, FL - PHASE I

CPH PROJECT No. S0989
FINANCIAL PROJECT ID: 444628-1-58-01 & 444628-2-62-01
FPN: D522 084 B

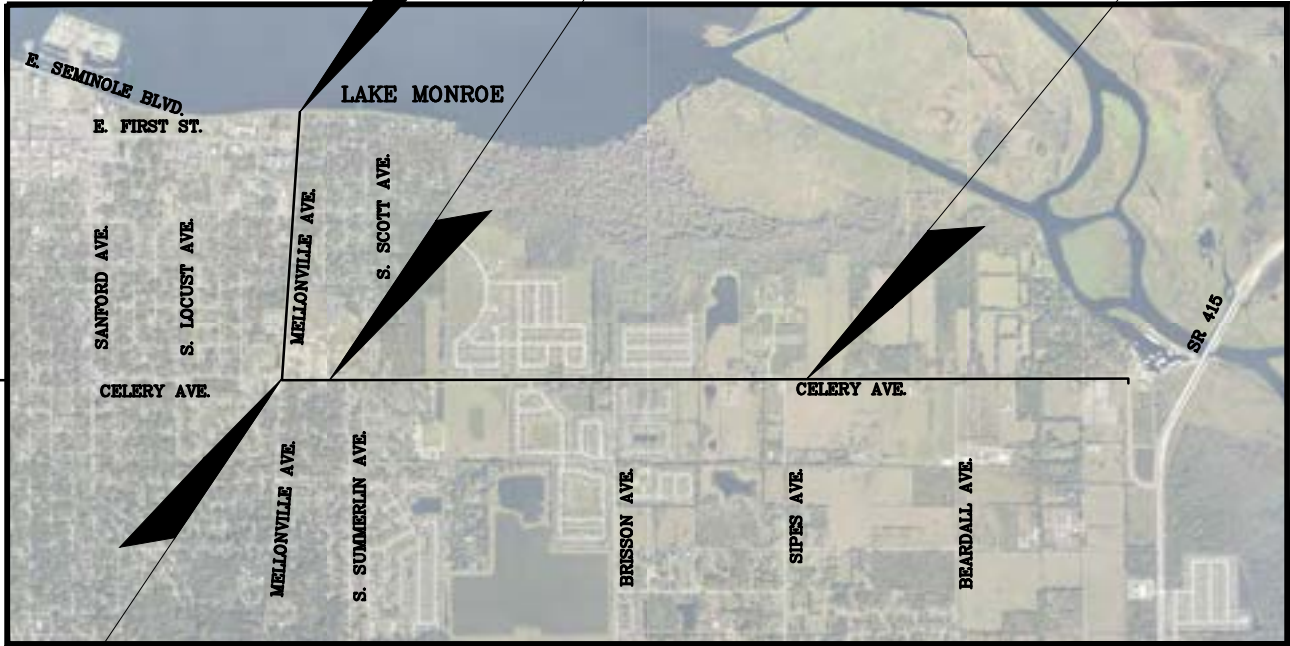
BEGIN PROJECT
BEGIN CONSTRUCTION - TRAIL
STA. 20+29.66 (B SURVEY)
STA. 500+00.00 (B CONST.)

BEGIN CONSTRUCTION
END EXCEPTION
STA. 69+74.39 (B SURVEY)
STA. 548+57.10 (B CONST.)

END PROJECT
END CONSTRUCTION - TRAIL
STA. 144+41.09 (B SURVEY)
STA. 623+42.99 (B CONST.)



TO
SANFORD

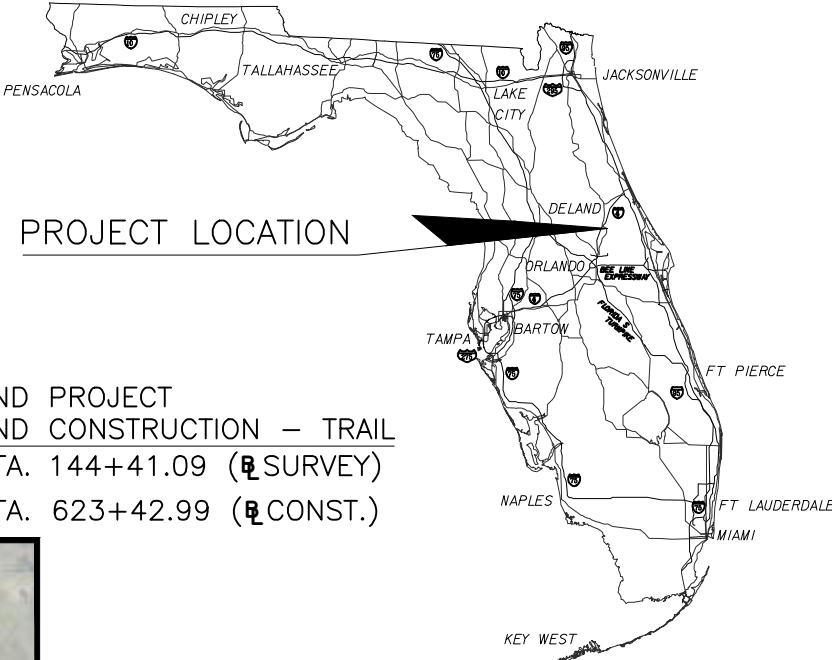


LOCATION MAP
N.T.S.

END CONSTRUCTION
BEGIN EXCEPTION
STA. 61+88.61 (B SURVEY)
STA. 541+78.37 (B CONST.)

LENGTH OF PROJECT		
	LINEAR FEET	MILES
PROJECT LENGTH	12,342.99	2.3377
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



PROJECT LOCATION

TO DELTONA

SHOP DRAWINGS (FOR THIS COMPONENT SET) TO BE SUBMITTED TO:

CPH, INC.
500 W. FULTON STREET
SANFORD, FLORIDA 32771
PHONE 407 322-6841
FAX 407 330-0639

PLANS PREPARED BY:



Engineers (C.O.A. No. 3215)
Architects (Lic. No. AA2600926)
Surveyors (L.B. No. 7143)
Landscape Arch. (Lic. No. LC0000298)
Planners
Environmental Scientists
Construction Management
Traffic / Transportation

WWW.CPHCORP.COM
500 W. FULTON STREET, SANFORD, FLORIDA 32771
P. O. BOX 2808, SANFORD, FLORIDA 32772-2808
PHONE 407 322-6841 FAX 407 330-0639

PLANS PREPARED FOR:



SEMINOLE COUNTY
1101 EAST FIRST STREET
SANFORD, FL 32771-1244
PHONE: 407.665.0000

ROADWAY PLANS
ENGINEER OF RECORD:

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

Plan Set Date
May 9th, 2024



SHEET
NO.

1

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

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S-7 To S-28	S&PM - PLAN SHEETS
	- TRAFFIC CONTROL PLANS (TCP) -
TCP-1	TCP GENERAL NOTES

No.	Date	Revision	By	No.	Date	Revision	By
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Designed by:	CJT	Date:	05/09/2024
Drawn by:	AM	Scale:	AS NOTED
Checked by:	KRL		
Approved by:	MCC		
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

Signature Sheet

Sheet No.

2

Drawing name: J:\S0989\Roadway\Roadway\SIGNRDO1_P01.dwg May 09, 2024 - 11:34am mcmahman

Drawing name: J:\S0989\Roadway\Roadway\SUMMARY\RD01_Ph1.dwg May 09, 2024 - 11:35am msashman

SUMMARY OF PAY ITEMS							
Lake Monroe Loop Trail - Phase I							
P.I. LINE NO.	FDOT PAY ITEM NO.			PAY ITEM DESCRIPTION	UNIT	QUANTITY	
						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	2		CONCRETE SIDEWALK & DRIVEWAYS, 6" THICK	SY	3,792	
37	522	5		CONCRETE, 8"-12" THICK, REINFORCED (RAISED CROSSWALKS)	SY	251	
38	527	2		DETECTABLE WARNINGS	SF	724	
39	530	74		BEDDING STONE (VARIABLE THICKNESS, NO. 57 STONE)	TN	22.6	
40	570	1	2	PERFORMANCE TURF, SOD	SY	6,090	
41	635	2	30	PULL & SPLICE BOX, INSTALL	EA	10	
42	700	1	11	SINGLE POST SIGN, F&I, GM, <12 SF	AS	39	
43	700	1	50	SINGLE POST SIGN, RELOCATE	AS	27	
44	700	1	60	SINGLE POST SIGN, REMOVE	AS	2	
45	706	1	3	RAISED PAVEMENT MARKERS	EA	64	
46	710	90		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.

No.	Date	Revision	By	No.	Date	Revision	By



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Designed by: CJT
Drawn by: AM
Checked by: KRL
Approved by: MCC
Job No. S0989.1

Date: 06/09/2024
Scale: AS NOTED
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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: 407.322.6841
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

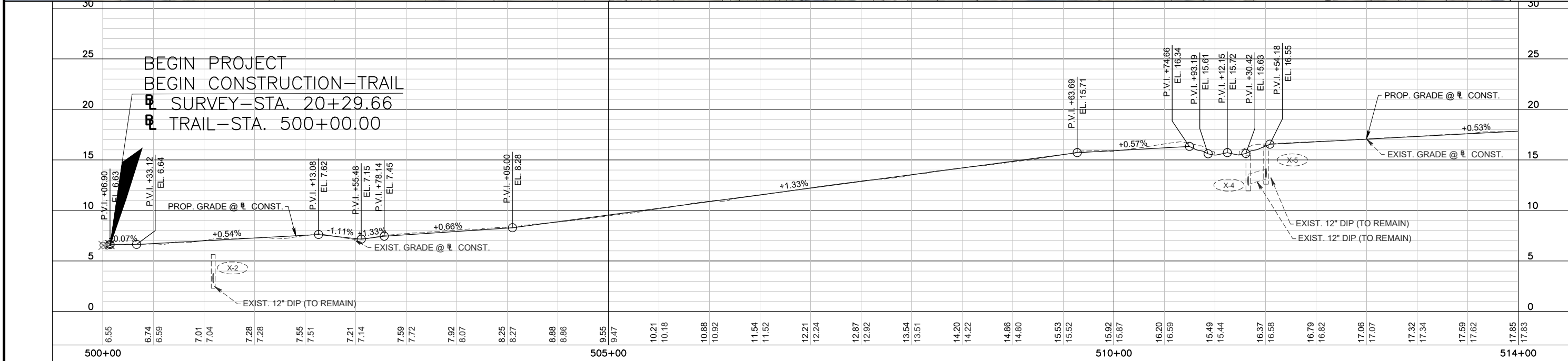
Summary of
Pay Items

Sheet No.

3



MATCH LINE STA. 514+00.00

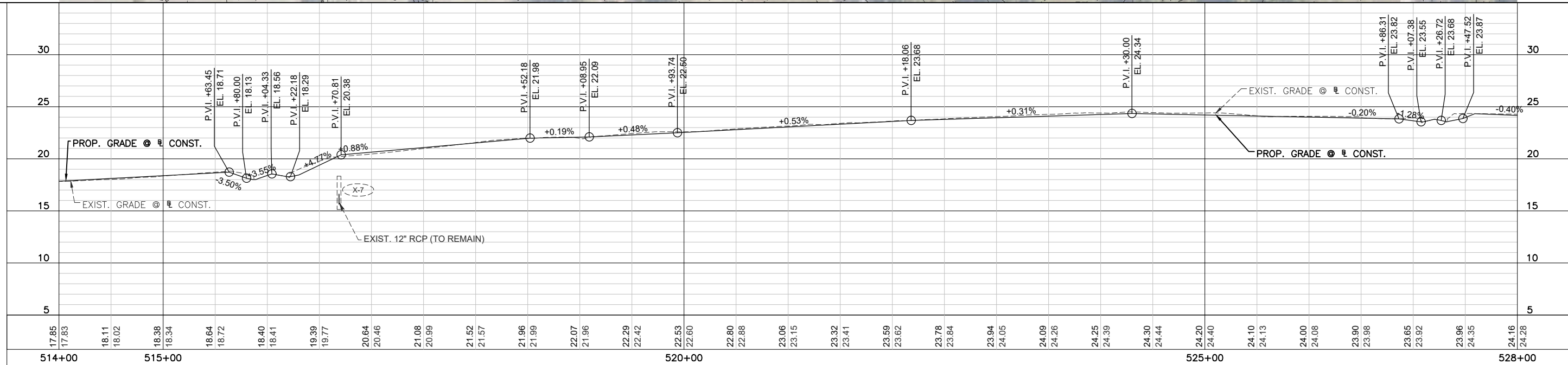


No.	Date	Revision	By	No.	Date	Revision	By
1				1			
2				2			
3				3			
4				4			

cph		A Full Service A & E Firm		Designed by: CJT Date: 05/09/2024		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 Landsc. Lic. No. LC0000298		MATTHEW C. CUSHMAN, P.E. FL P.E. No. 73150		Sheet No. 4	
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MATCH LINE STA. 514+00.00

MATCH LINE STA. 528+00.00



No.	Date	Revision	By	No.	Date	Revision	By
1				1			
2				2			
3				3			
4				4			



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MATTHEW C. CUSHMAN, P.E.
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Drainage Map

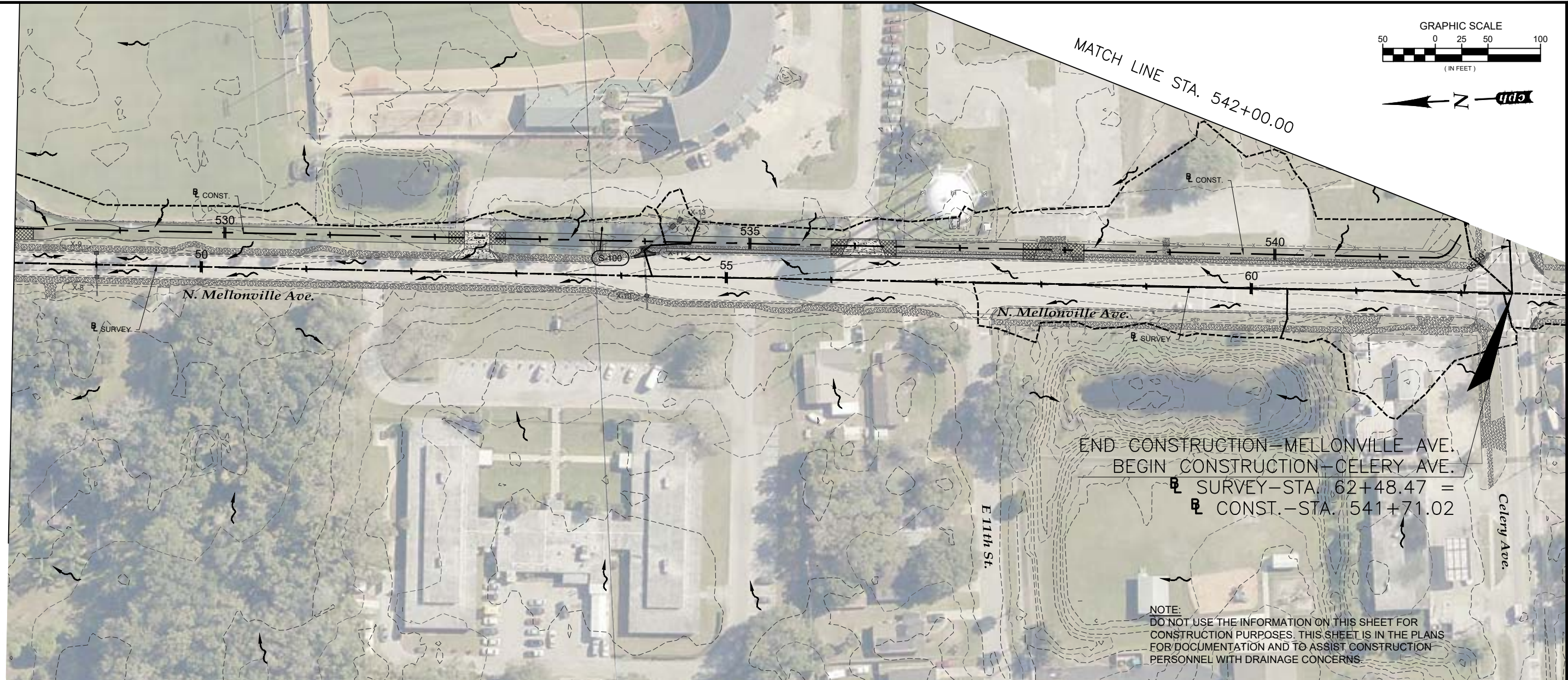
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5

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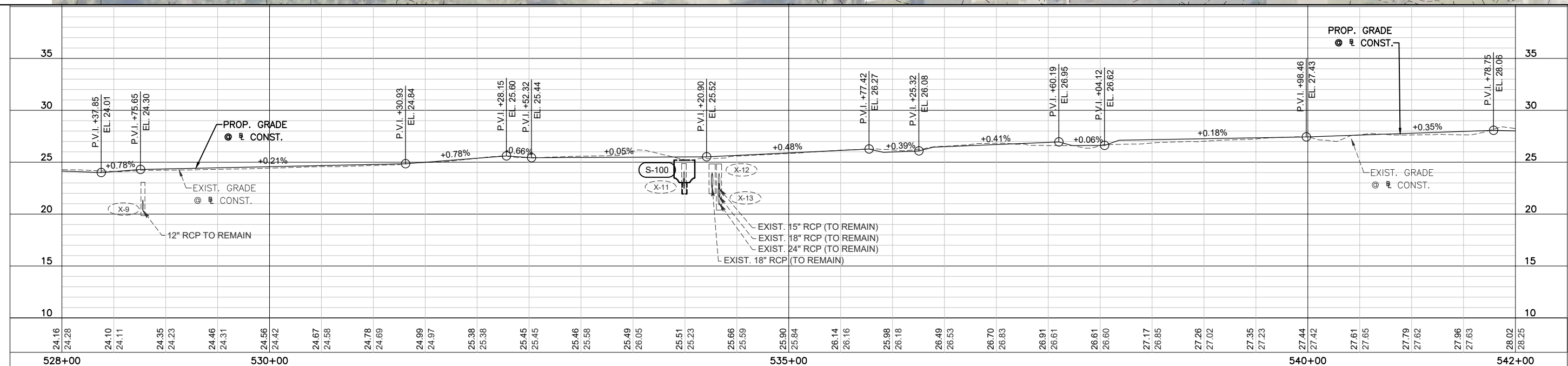
MATCH LINE STA. 528+00.00



END CONSTRUCTION—MELLONVILLE AVE.
BEGIN CONSTRUCTION—CELERY AVE.

Ⓢ SURVEY—STA. 62+48.47 =
Ⓢ CONST.—STA. 541+71.02

NOTE:
DO NOT USE THE INFORMATION ON THIS SHEET FOR
CONSTRUCTION PURPOSES. THIS SHEET IS IN THE PLANS
FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION
PERSONNEL WITH DRAINAGE CONCERNS.



No.	Date	Revision	By	No.	Date	Revision	By
△				△			
△				△			
△				△			
△				△			



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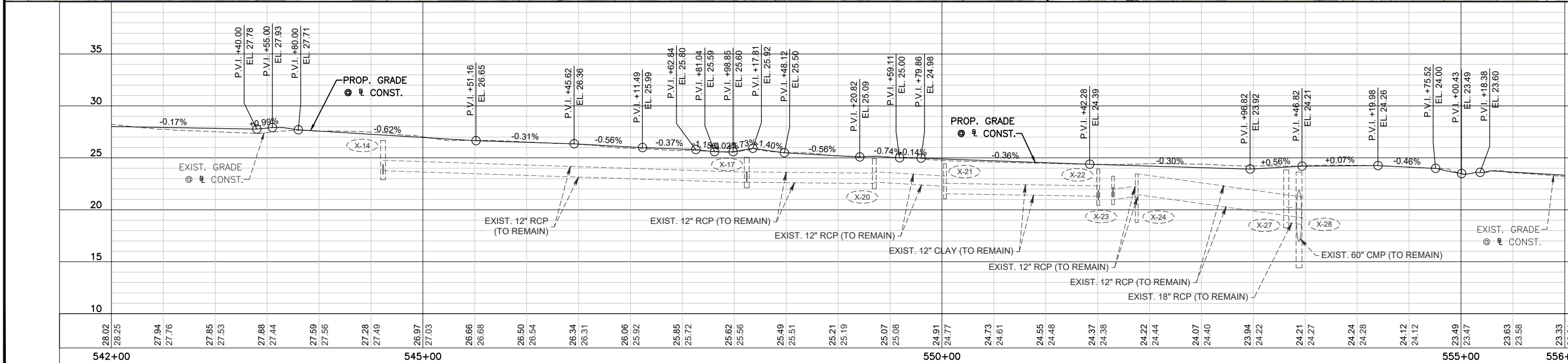
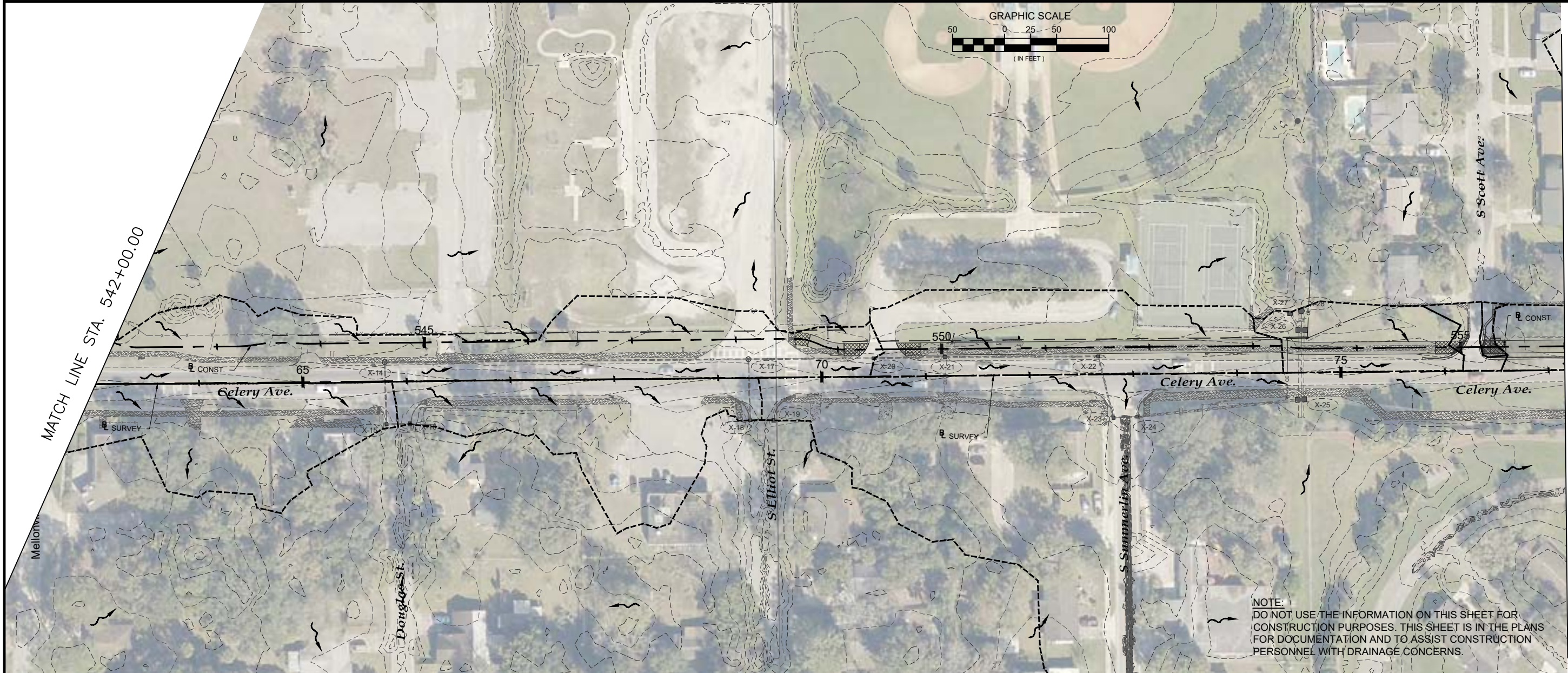
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Drainage Map



Revisions			Revisions		
No.	Date	Revision	No.	Date	Revision

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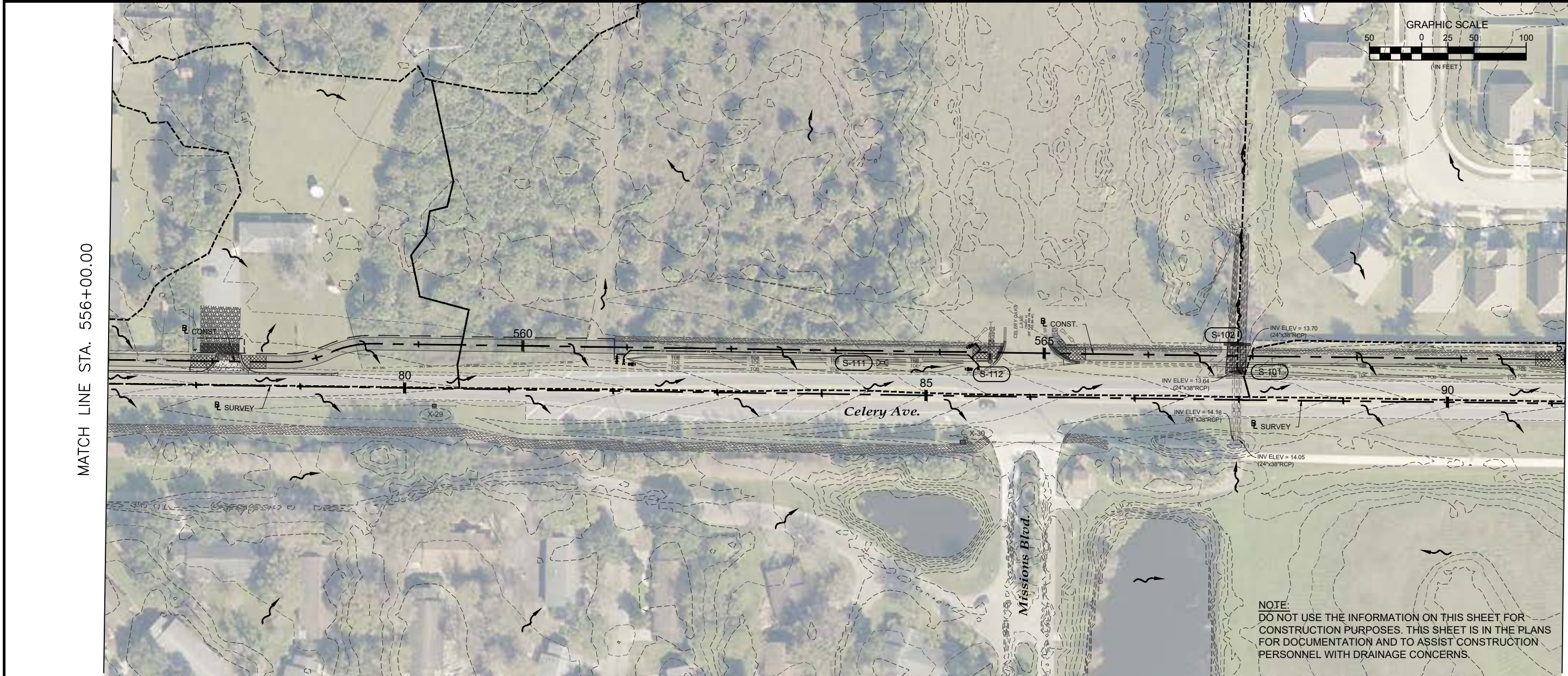
Designed by: CJT
Drawn by: AM
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Job No. S0989.1

Date: 05/09/2024
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Lake Monroe Trail Loop
Seminole County
Phase I

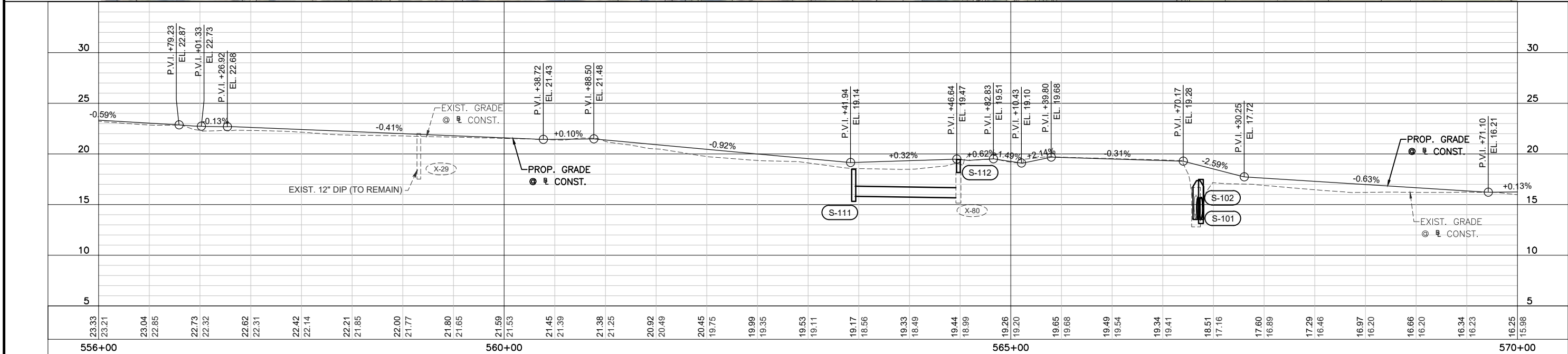
Plans Prepared By:
CPH, Inc.
500 West Fulton St. Sanford, FL 32771
Phone: 407.322.6841
Licenses:
Eng. C.O.A. No. 3215 Arch. Lic. No. AA2600926
Survey L.B. No. 7143 Landscp. Lic. No. LC0000298

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



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MATCH LINE STA. 570+00.00



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Phase I**

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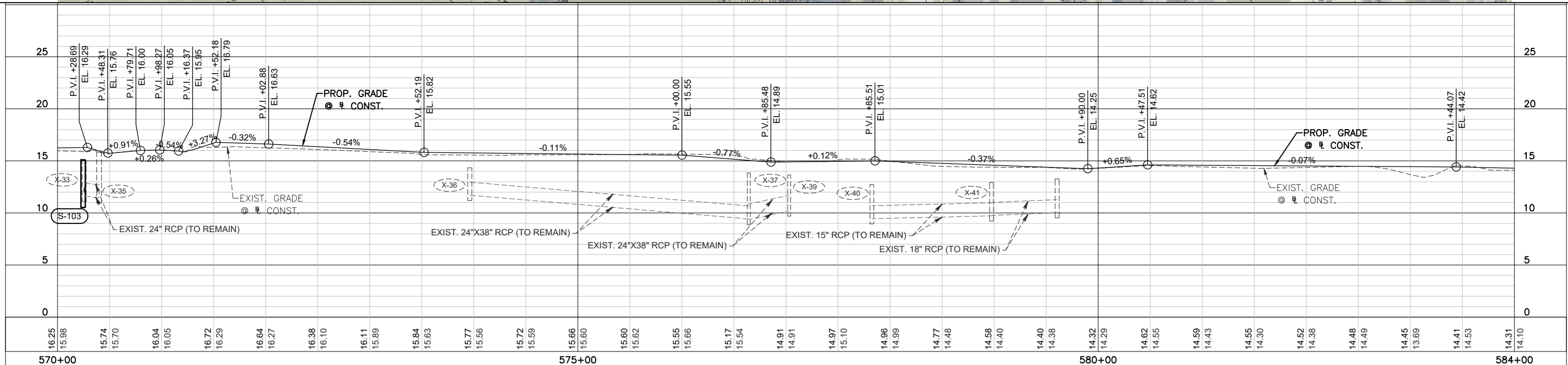
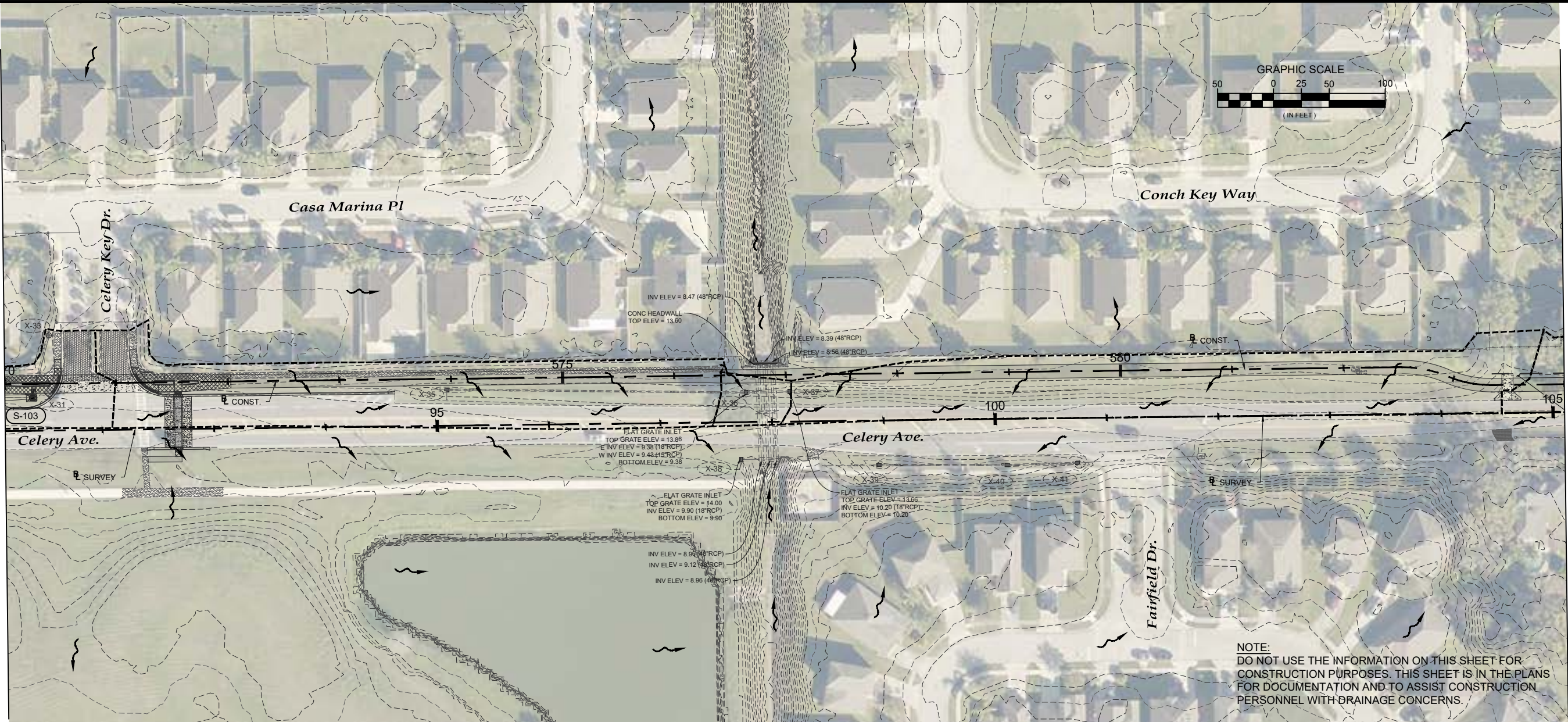
Drainage Map

Sheet No.
8

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Lake Monroe Trail Loop
Seminole County
Phase I

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Drainage Map

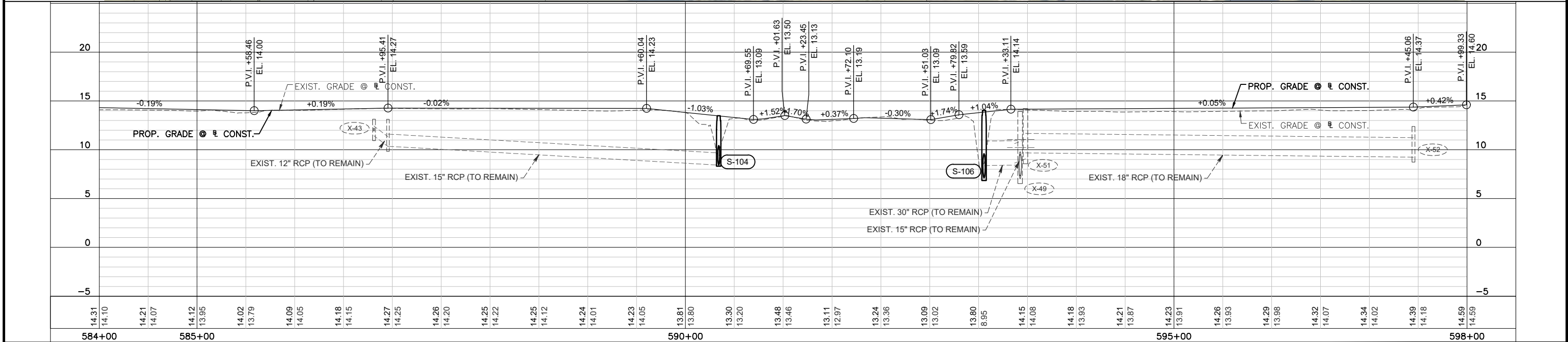
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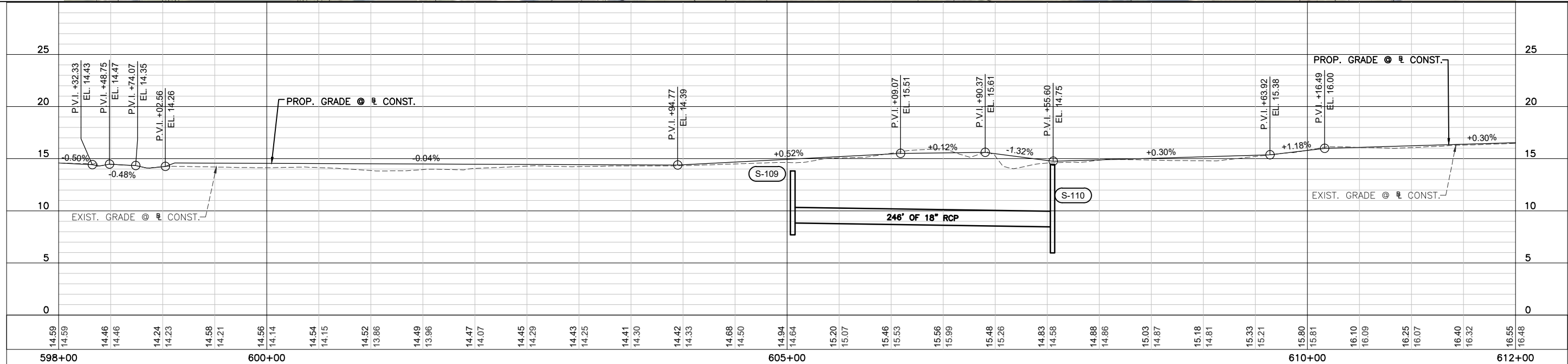
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MATCH LINE STA. 598+00.00

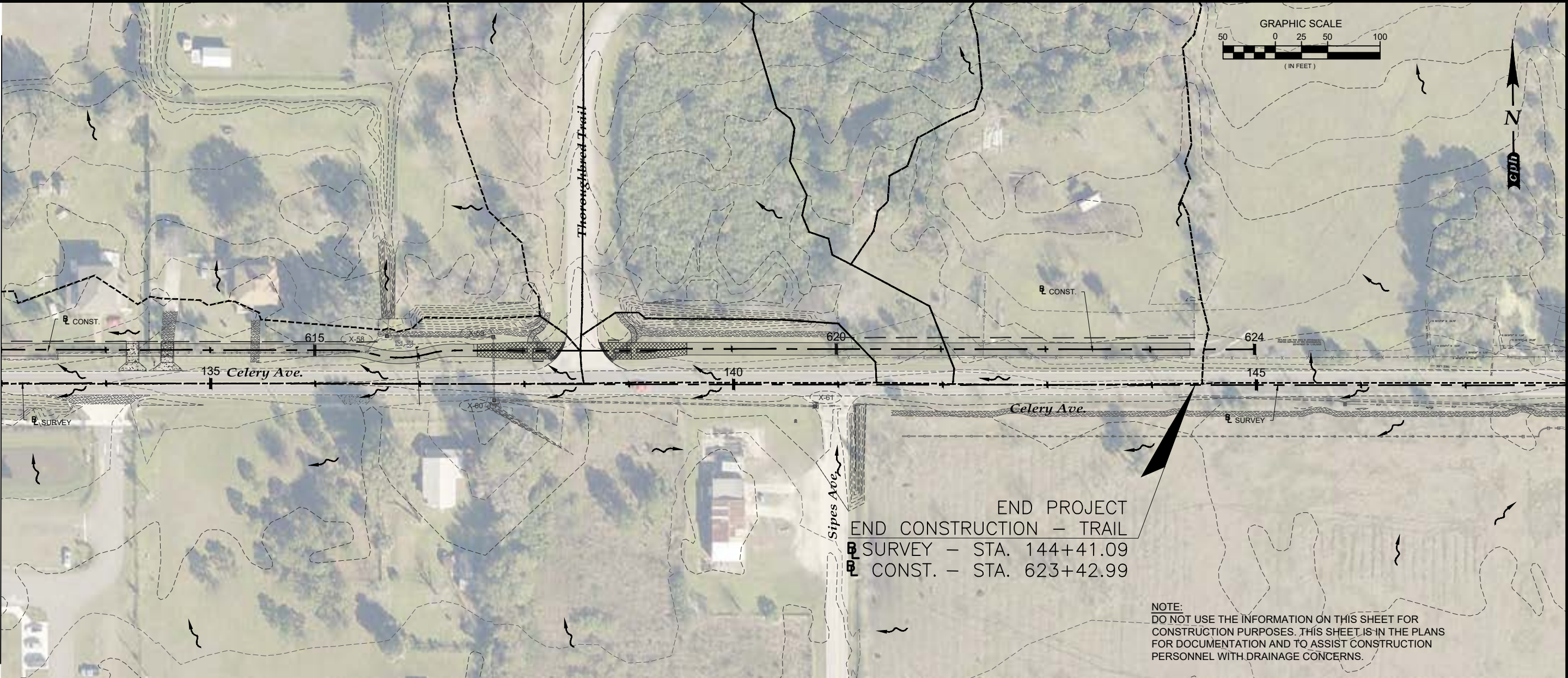


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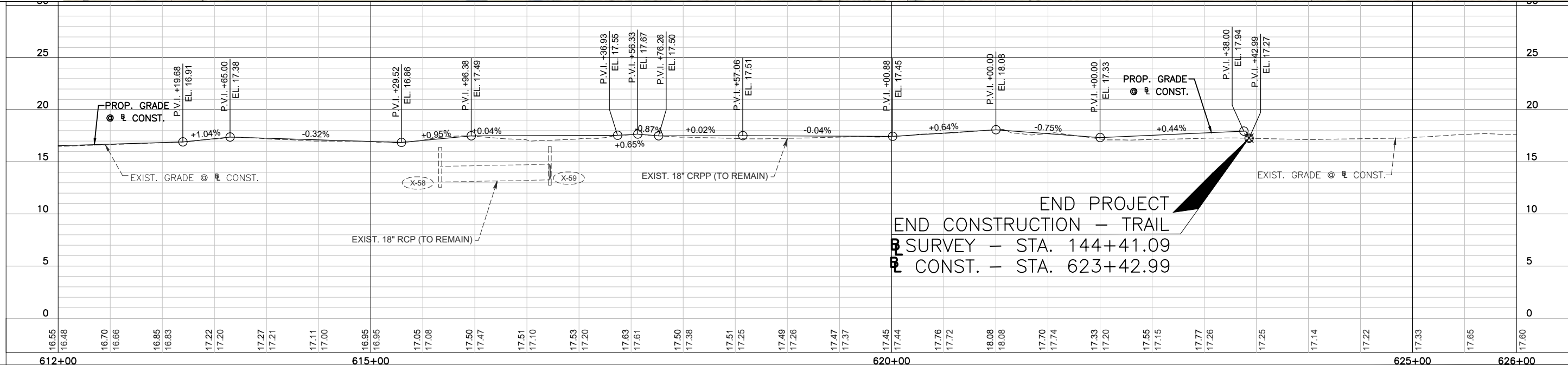


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END PROJECT
END CONSTRUCTION – TRAIL
SURVEY – STA. 144+41.09
CONST. – STA. 623+42.99

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Lake Monroe Trail Loop
Seminole County
Phase I

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FL P.E. No. 73150

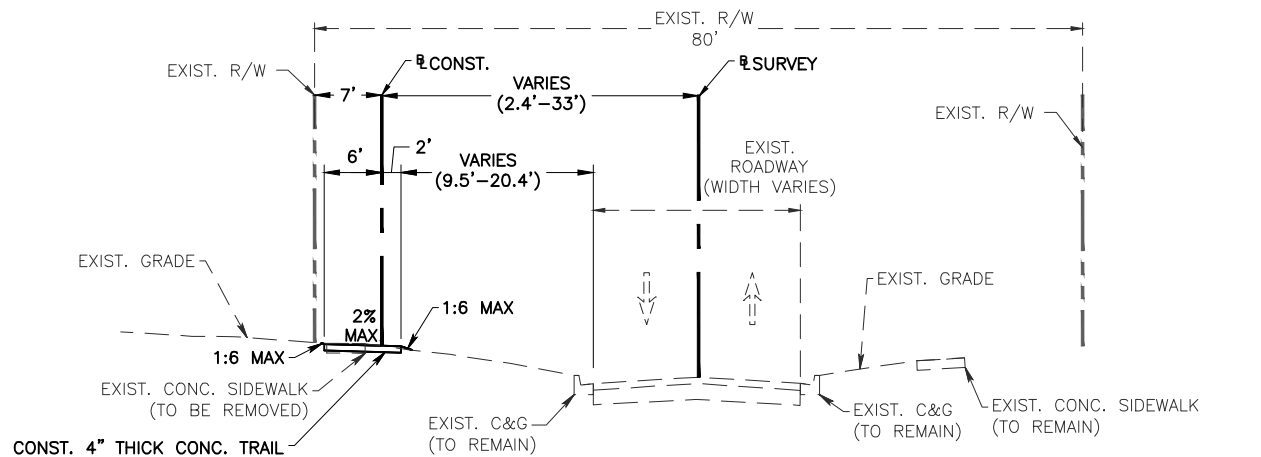
Drainage Map

Sheet No.
12

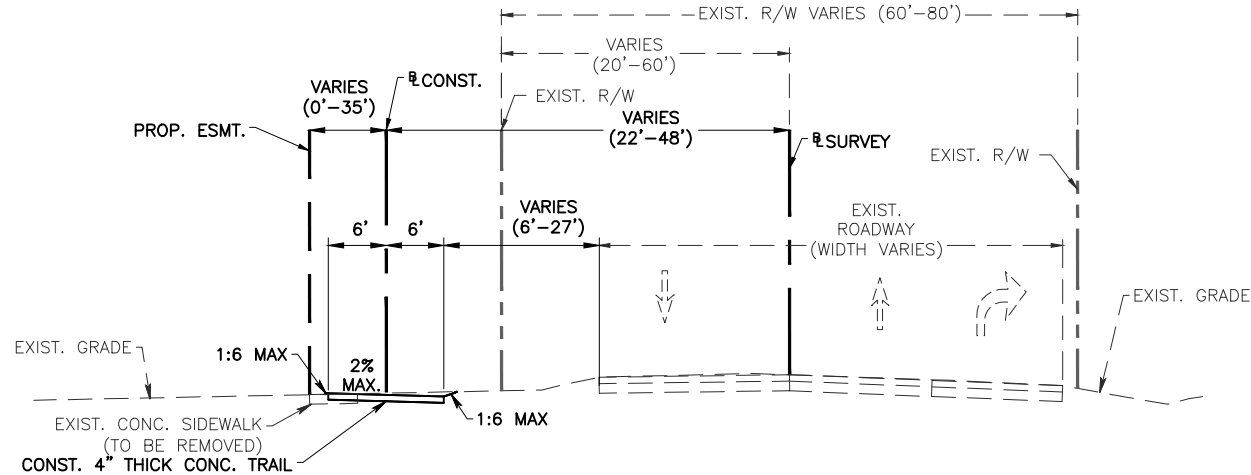
SUMMARY OF DRAINAGE STRUCTURES

STRUCT. No.		STATION AT BL CONST.	OFFSET	DESCRIPTION	EOP, GRATE, OR TOP ELEV. *	BARRELS	PIPE SIZE	DIRECTION	INVERTS	STORM DRAIN						INLETS				MANHOLES		STRAIGHT CONCRETE ENDWALLS			REMARKS	
																CURB	DITCH BOTTOM									
										ROUND				ELLIPTICAL			TYPE J-2 <10	TYPE C								
										15"	18"	24"	30"	24"x18"	24"x38"			STD.	J-BOT<10	PARTIAL						
LF	LF	LF	LF	LF	LF	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA								
P	S-100	533+99.64	8.94' RT	CURB INLET TYPE J-2 (C.I.P.)	25.42	1	18"	SE	22.59'							1										FDOT SPI 425-001, 425-010, 425-020 ALT B 5'x5' J BOTTOM (C.I.P.)
F							12"	W	22.45'																	
P	S-101	566+87.70	13.70' RT	DITCH BOTTOM INLET TYPE C	17.49 GRATE	1	24"x38"	N	13.70'									1								FDOT SPI 425-001, 425-010, 425-052, 4'X4' ALT-B J-BOT, CONC. APRON, TRAVERSABLE, 2-SLOT W/ STEEL GRATE
F							24"x38"	S	13.70'																	
P	S-102	566+85.05	11.17' LT	MODIFIED STRAIGHT CONC. ENDWALL	18.25' TOP **	2	24"x38"	S	13.68'															1		FDOT SPI 430-030; DBL OPENING, MODIFIED (SEE GENERAL DETAILS). PIPE EXT. W/ COLLAR
F							24"x38"	S	13.62'																	
P	S-103	570+24.63	12.66' RT	DITCH BOTTOM INLET TYPE C	15.11' GRATE	1	15"	N	11.64	8																FDOT SPI 425-001, 425-010, 425-052, CONC. APRON, TRAV., SINGLE SLOT W/ STL GRATE (CIP). PIPE EXT. W/ COLLAR
F							6" (EXIST.)	S	11.98																	
P	S-104	590+34.01	8.84' RT	MANHOLE TYPE 8	13.49' TOP	1	24"	N	8.44'			29								1						FDOT SPI 425-001, 425-010, 4'X4' ALT B J-BOTTOM
F							18"	S	8.52'																	
							15"	W	8.44'																	
P	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
F																										
P	S-106	593+05.63	12.60' RT	MANHOLE TYPE 8	14.03' TOP	1	30"	N	7.11'			26								1						FDOT SPI 425-001, 425-010
F							30"	S	7.11'																	
P	S-107	593+02.13	12.62' LT	MODIFIED STRAIGHT CONC. ENDWALL	13.14' TOP **	1	30"	S	7.09'														1			FDOT SPI 430-030 MODIFIED (SEE GENERAL DETAILS)
F																										
P	S-108	597+44.90	12.23' RT	DITCH BOTTOM INLET TYPE C	13.20' GRATE	1	18"	E	9.88'									1								FDOT SPI 425-001, 425-010, 425-052, 3.5'X6' TYPE B ALT B J-BOT, CONC. APRON, TRAV., 2-SLOT W/ STEEL GRATE
F							24"	W	9.68'																	
P	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, TRAVERSABLE, SINGLE SLOT W/ STEEL GRATE
F																										
P	S-110	607+55.11	9.87' RT	PARTIAL DITCH BOTTOM INLET TYPE C	14.45' GRATE	1	48"	N	UNK										1							FDOT SPI 425-010, 425-052 - SAWCUT EXIST. TYPE E DBI, CONST. ALT B TOP SLAB W/ TYPE C DBI TOP, CONC. APRON, TRAVERSABLE, SINGLE SLOT W/ STEEL GRATE (CIP)
F							24"	S	UNK																	
							18"	W	8.46																	
P	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
F																										
P	S-112	564+48.14	8.42' RT	MANHOLE	19.41' TOP	1	15"	N	15.66	8										1						FDOT SPI 425-001, 425-010 (CIP) PIPE EXT. W/ COLLAR
F							12"x18"	w	15.66																	
TOTAL										16	246	29	26	100	51	1	2	2	1	1	2	1	1	1		

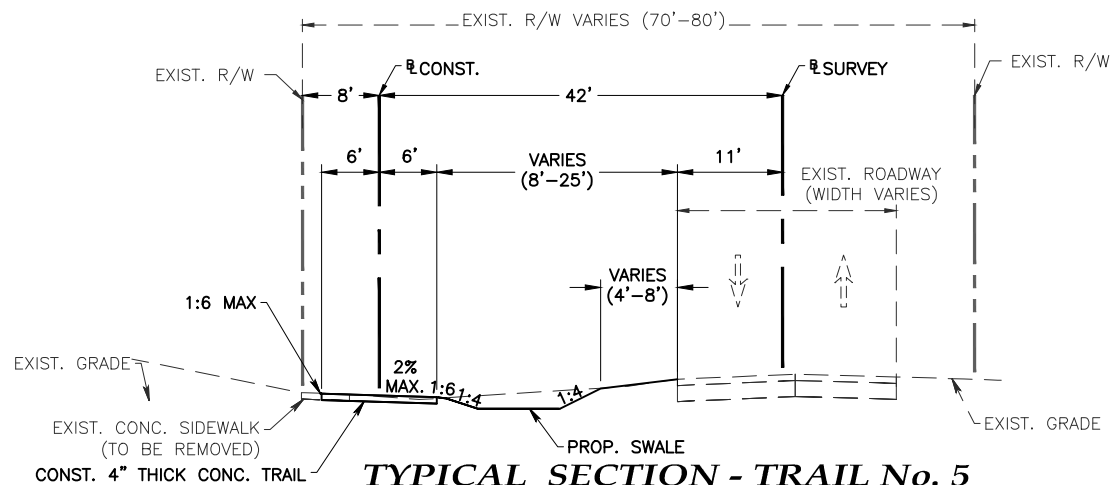
* REFERENCE ELEVATION PROVIDED (UNLESS OTHERWISE SPECIFICALLY NOTED) IS THE ELEVATION OF THE STRUCTURE AT THE STANDARD STATION/OFFSET REFERENCE LOCATION AS IDENTIFIED WITHIN THE FDOT STANDARD PLANS.



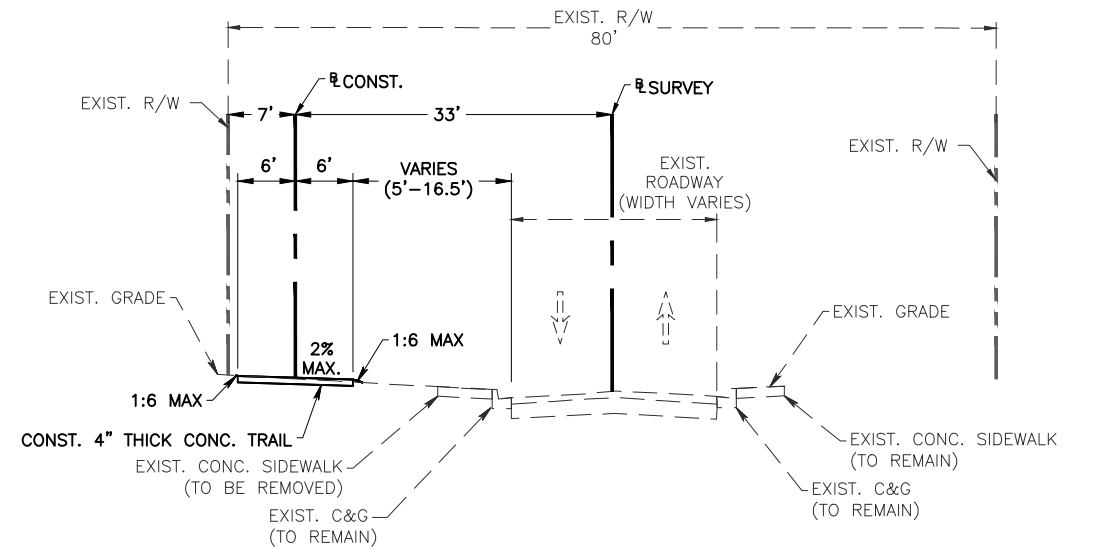
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STA. 500+00.00 TO STA. 528+17.63 (CONST.)



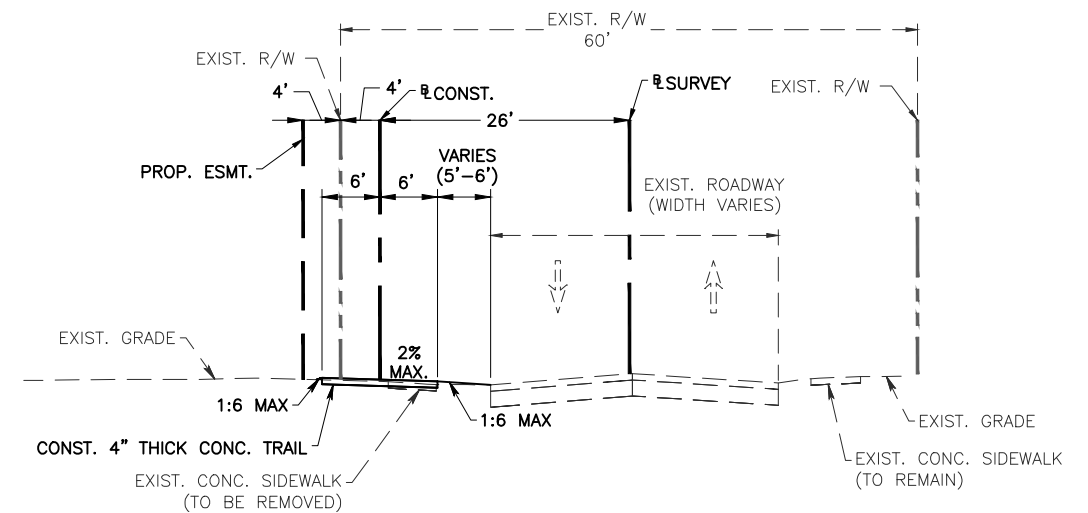
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STA. 541+54.39 TO STA. 541+78.37 (CONST.)
STA. 552+00.00 TO STA. 561+00.00 (CONST.)
STA. 564+22.63 TO STA. 566+87.50 (CONST.)
STA. 570+35.00 TO STA. 599+97.74 (CONST.)
STA. 605+20.00 TO STA. 623+42.99 (CONST.)



TYPICAL SECTION - TRAIL No. 5
STA. 561+00.00 TO STA. 564+22.63 (CONST.)
STA. 566+87.50 TO STA. 570+35.00 (CONST.)
STA. 599+97.74 TO STA. 605+20.00 (CONST.)



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)

Drawing name: J:\S0989\Roadway\Roadway\TYPRD01_P01.dwg May 09, 2024 - 11:37am mchman

No.	Date	Revision	By	No.	Date	Revision	By
1				1			
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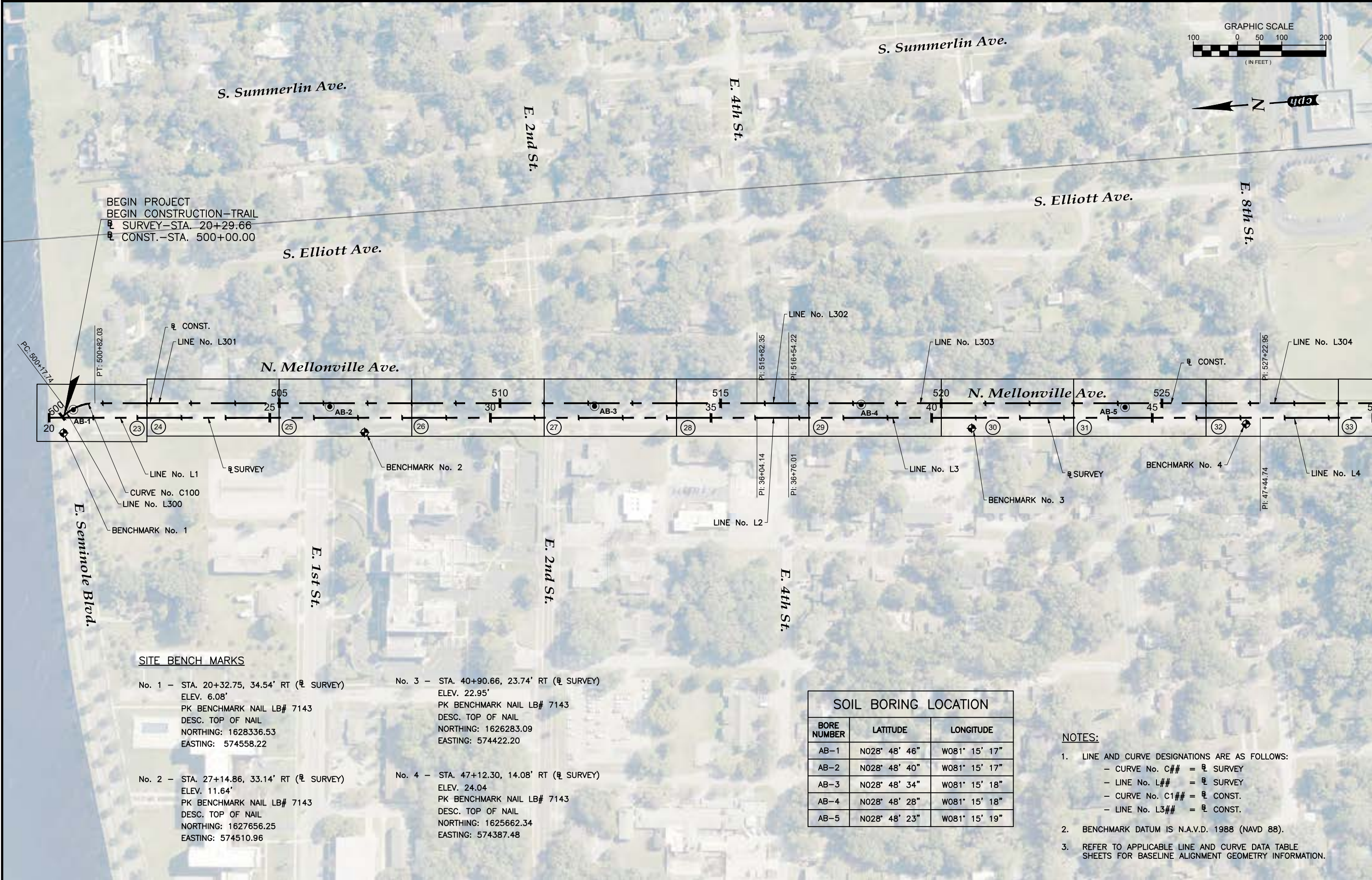
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• Connecticut	Approved by:	MCC		
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MATTHEW C. CUSHMAN, P.E.
FL P.E. No. 73150

Typical Sections



SITE BENCH MARKS

No. 1 - STA. 20+32.75, 34.54' RT (℄ SURVEY)
ELEV. 6.08'
PK BENCHMARK NAIL LB# 7143
DESC. TOP OF NAIL
NORTHING: 1628336.53
EASTING: 574558.22

No. 2 - STA. 27+14.86, 33.14' RT (℄ SURVEY)
ELEV. 11.64'
PK BENCHMARK NAIL LB# 7143
DESC. TOP OF NAIL
NORTHING: 1627656.25
EASTING: 574510.96

No. 3 - STA. 40+90.66, 23.74' RT (℄ SURVEY)
ELEV. 22.95'
PK BENCHMARK NAIL LB# 7143
DESC. TOP OF NAIL
NORTHING: 1626283.09
EASTING: 574422.20

No. 4 - STA. 47+12.30, 14.08' RT (℄ SURVEY)
ELEV. 24.04
PK BENCHMARK NAIL LB# 7143
DESC. TOP OF NAIL
NORTHING: 1625662.34
EASTING: 574387.48

SOIL BORING LOCATION

BORE NUMBER	LATITUDE	LONGITUDE
AB-1	N028° 48' 46"	W081° 15' 17"
AB-2	N028° 48' 40"	W081° 15' 17"
AB-3	N028° 48' 34"	W081° 15' 18"
AB-4	N028° 48' 28"	W081° 15' 18"
AB-5	N028° 48' 23"	W081° 15' 19"

NOTES:

- LINE AND CURVE DESIGNATIONS ARE AS FOLLOWS:
 - CURVE No. C## = ℄ SURVEY
 - LINE No. L## = ℄ SURVEY
 - CURVE No. C1## = ℄ CONST.
 - LINE No. L3## = ℄ CONST.
- BENCHMARK DATUM IS N.A.V.D. 1988 (NAVD 88).
- REFER TO APPLICABLE LINE AND CURVE DATA TABLE SHEETS FOR BASELINE ALIGNMENT GEOMETRY INFORMATION.

No.	Date	Revision	By	No.	Date	Revision	By
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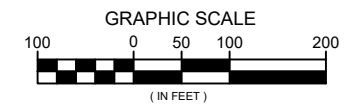
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Project Layout

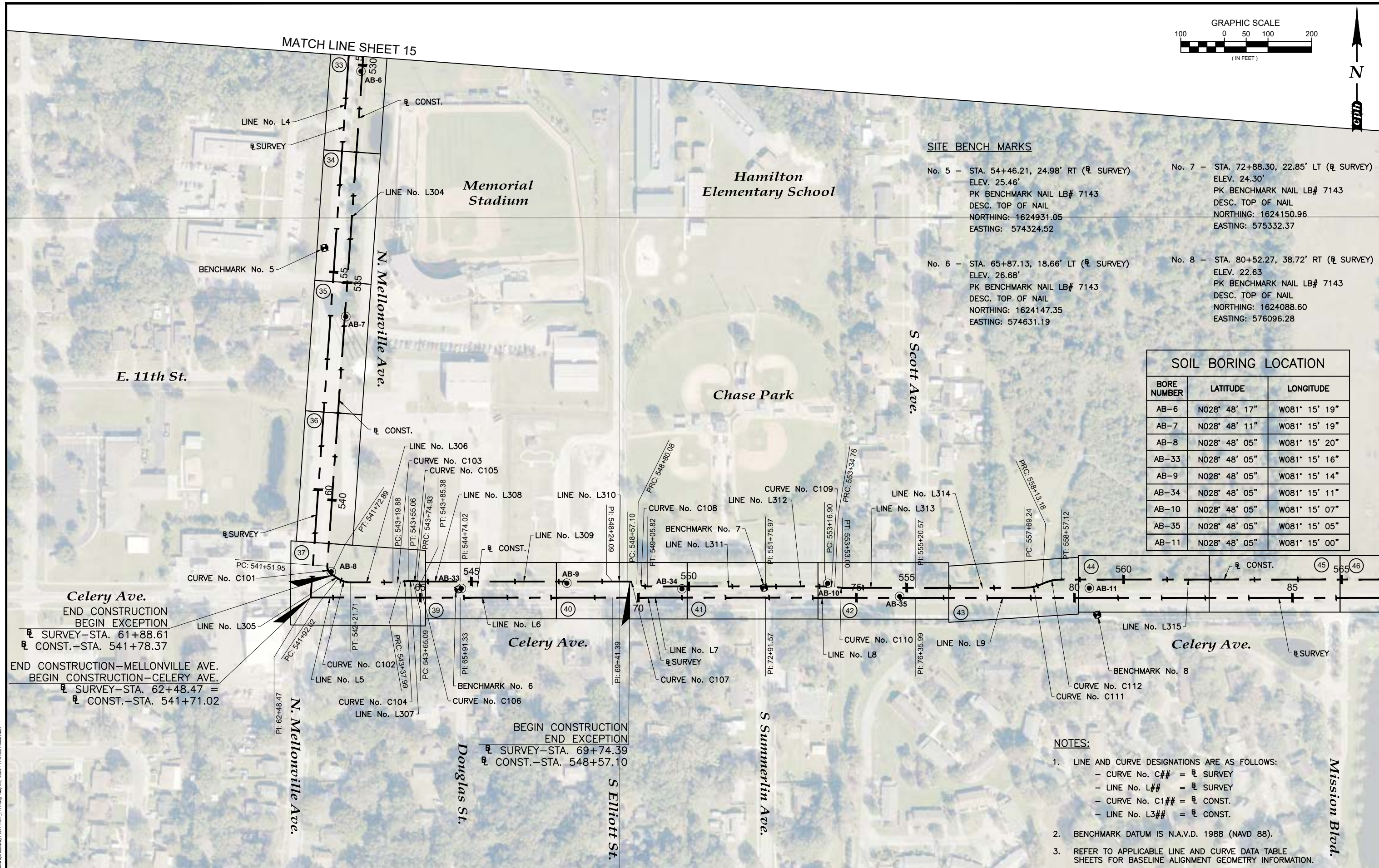
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MATCH LINE SHEET 15

MATCH LINE SHEET 17



SITE BENCH MARKS

- No. 5 - STA. 54+46.21, 24.98' RT (℄ SURVEY)
ELEV. 25.46'
PK BENCHMARK NAIL LB# 7143
DESC. TOP OF NAIL
NORTHING: 1624931.05
EASTING: 574324.52

No. 6 - STA. 65+87.13, 18.66' LT (℄ SURVEY)
ELEV. 26.68'
PK BENCHMARK NAIL LB# 7143
DESC. TOP OF NAIL
NORTHING: 1624147.35
EASTING: 574631.19
- No. 7 - STA. 72+88.30, 22.85' LT (℄ SURVEY)
ELEV. 24.30'
PK BENCHMARK NAIL LB# 7143
DESC. TOP OF NAIL
NORTHING: 1624150.96
EASTING: 575332.37

No. 8 - STA. 80+52.27, 38.72' RT (℄ SURVEY)
ELEV. 22.63
PK BENCHMARK NAIL LB# 7143
DESC. TOP OF NAIL
NORTHING: 1624088.60
EASTING: 576096.28

SOIL BORING LOCATION

BORE NUMBER	LATITUDE	LONGITUDE
AB-6	N028° 48' 17"	W081° 15' 19"
AB-7	N028° 48' 11"	W081° 15' 19"
AB-8	N028° 48' 05"	W081° 15' 20"
AB-33	N028° 48' 05"	W081° 15' 16"
AB-9	N028° 48' 05"	W081° 15' 14"
AB-34	N028° 48' 05"	W081° 15' 11"
AB-10	N028° 48' 05"	W081° 15' 07"
AB-35	N028° 48' 05"	W081° 15' 05"
AB-11	N028° 48' 05"	W081° 15' 00"

NOTES:

- LINE AND CURVE DESIGNATIONS ARE AS FOLLOWS:
 - CURVE No. C## = ℄ SURVEY
 - LINE No. L## = ℄ SURVEY
 - CURVE No. C1## = ℄ CONST.
 - LINE No. L3## = ℄ CONST.
- BENCHMARK DATUM IS N.A.V.D. 1988 (NAVD 88).
- REFER TO APPLICABLE LINE AND CURVE DATA TABLE SHEETS FOR BASELINE ALIGNMENT GEOMETRY INFORMATION.

Drawing name: J:\S0989\Roadway\Roadway\PLAYTTR01_P01.dwg May 09, 2024 - 11:37am mcaushman



Marathon Lm.

Conch Key Way

Casa Marina Pi

Celery Key Dr.

Celery Ave.

BENCHMARK No. 9

CURVE No. C113

CURVE No. C

LINE No. L317

BENCHMARK No. 10

CURVE No. C1

CURVE No. C115

B CONST

LINE No. 1318

Celery Ave

LINE No. L

CURVE No. C

CURVE No. C117

CURVE No. 0

CURVE No. C121

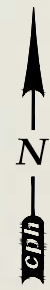
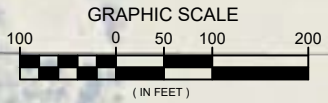
LINE No. L11

CURVE No. C122

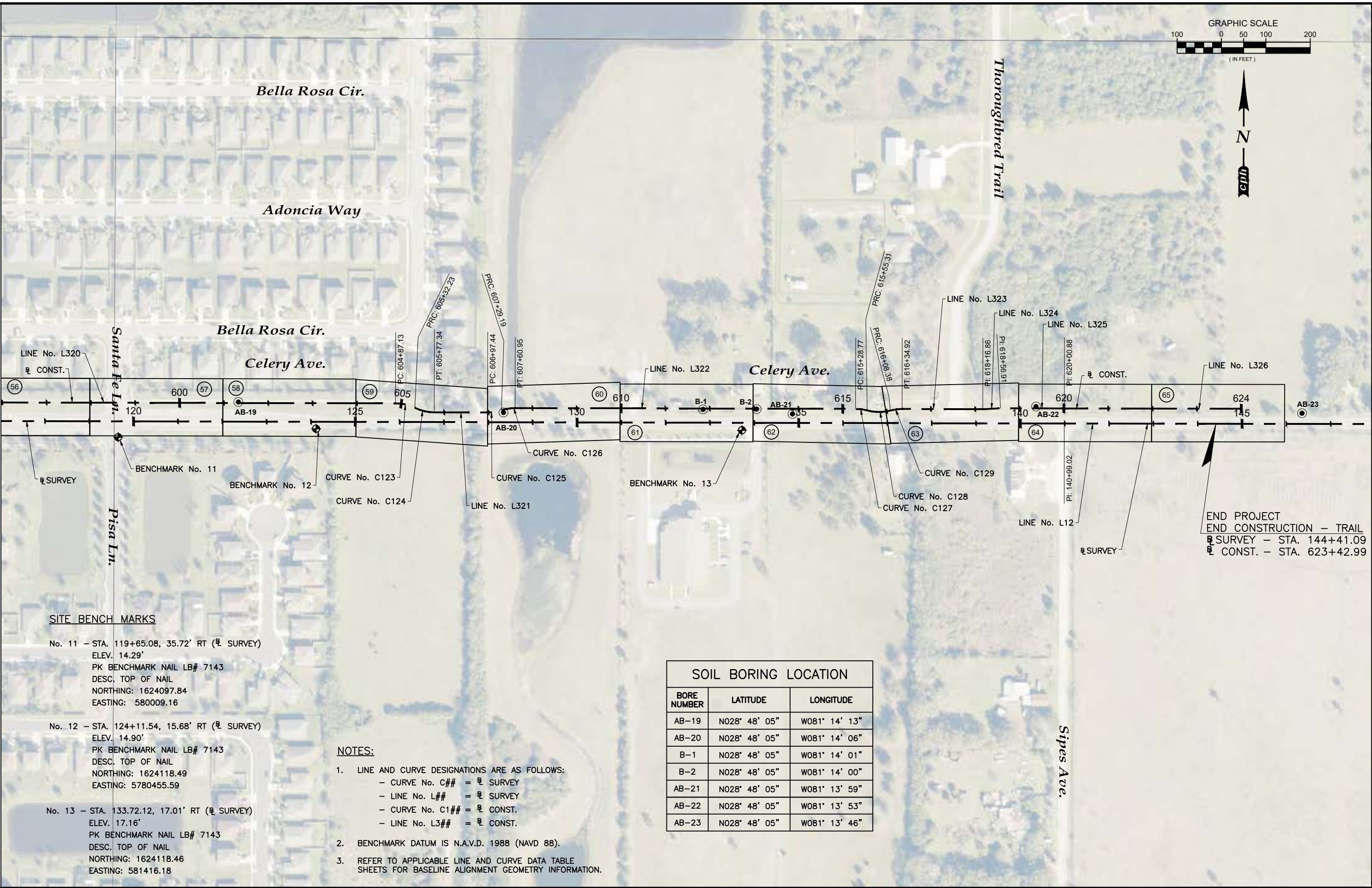
Brissou Ave

BORE NUMBER	LATITUDE	LONGITUDE
AB-12	N028° 48' 05"	W081° 14' 52"
HW-1	N028° 48' 05"	W081° 14' 51"
AB-13	N028° 48' 05"	W081° 14' 47"
AB-14	N028° 48' 05"	W081° 14' 40"
AB-15	N028° 48' 05"	W081° 14' 37"
AB-16	N028° 48' 05"	W081° 14' 26"
HW-2	N028° 48' 05"	W081° 14' 22"
AB-17	N028° 48' 05"	W081° 14' 22"
AB-18	N028° 48' 05"	W081° 14' 20"

17



MATCH LINE SHEET 17



SITE BENCH MARKS

- No. 11 - STA. 119+65.08, 35.72' RT (℄ SURVEY)
ELEV. 14.29'
PK BENCHMARK NAIL LB# 7143
DESC. TOP OF NAIL
NORTHING: 1624097.84
EASTING: 580009.16
- No. 12 - STA. 124+11.54, 15.68' RT (℄ SURVEY)
ELEV. 14.90'
PK BENCHMARK NAIL LB# 7143
DESC. TOP OF NAIL
NORTHING: 1624118.49
EASTING: 5780455.59
- No. 13 - STA. 133.72.12, 17.01' RT (℄ SURVEY)
ELEV. 17.16'
PK BENCHMARK NAIL LB# 7143
DESC. TOP OF NAIL
NORTHING: 1624118.46
EASTING: 581416.18

NOTES:

- LINE AND CURVE DESIGNATIONS ARE AS FOLLOWS:
 - CURVE No. C## = ℄ SURVEY
 - LINE No. L## = ℄ SURVEY
 - CURVE No. C1## = ℄ CONST.
 - LINE No. L3## = ℄ CONST.
- BENCHMARK DATUM IS N.A.V.D. 1988 (NAVD 88).
- REFER TO APPLICABLE LINE AND CURVE DATA TABLE SHEETS FOR BASELINE ALIGNMENT GEOMETRY INFORMATION.

SOIL BORING LOCATION		
BORE NUMBER	LATITUDE	LONGITUDE
AB-19	N028° 48' 05"	W081° 14' 13"
AB-20	N028° 48' 05"	W081° 14' 06"
B-1	N028° 48' 05"	W081° 14' 01"
B-2	N028° 48' 05"	W081° 14' 00"
AB-21	N028° 48' 05"	W081° 13' 59"
AB-22	N028° 48' 05"	W081° 13' 53"
AB-23	N028° 48' 05"	W081° 13' 46"

Drawing name: J:\S0989\Roadway\Roadway\PLAYTROI_PFI.dwg, May 09, 2024 - 11:38am mshahman

LINE TABLE — ⅆ CONST.						
Line #	Length (Distance)	Direction (Bearings)	Start Point	End Point	Start Station	End Station
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'	S89° 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 — ⅆ CONST.												
CURVE No.	P.C. STATION	P.I. STATION	P.T. STATION	Δ	D	T	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	

Drawing name: J:\S0989\Roadway\Roadway\PLAYTROL_PFI.dwg, May 09, 2024 - 11:38am mshahman

No.	Date	Revision	By	No.	Date	Revision	By
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Approved by:	MCC		
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

Line And Curve Table
(ⅆ Const.)

Sheet No.
19

LINE TABLE — 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

No.	Date	Revision	By	No.	Date	Revision	By
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Drawn by: AM

Checked by: KRL

Approved by: MCC

Job No. S0989.1

Date: 05/09/2024

Scale: AS NOTED

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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: 407.322.6841

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

Line And Curve Table

(SURVEY)

Sheet No.

20

Drawing name: J:\S0989\Roadway\Roadway\PLAYTROI_P01.dwg May 09, 2024 - 11:38am mcsushman

DEFINITION OF ENTITIES:

1. 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:

1. 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.
2. 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/EARLIEST REFERENCED GOVERNING DOCUMENT UNLESS OTHERWISE NOTED.
3. 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.
4. 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 (IF APPLICABLE). THE CONTRACTOR SHALL OBTAIN A RIGHT OF WAY UTILIZATION PERMIT AND A DEWATERING PERMIT, 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.
5. 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.
6. TRAFFIC & PEDESTRIAN CONTROL SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX SERIES 102 AT A MINIMUM.
7. 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:

1. THE CONTRACTOR SHALL NOTIFY THE MAINTAINING AGENCY A MINIMUM OF ONE (1) WEEK PRIOR TO COMMENCING ANY CONSTRUCTION RELATED ACTIVITY.
2. 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.
3. 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 DELAY.
4. 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.
5. 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.
6. 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.
7. 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.

6. 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 AGENCY UPON REQUEST.
7. 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.
8. 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.
7. 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 VIDEO SHALL DOCUMENT THE CONDITION OF EXISTING VISIBLE CONTROL MONUMENTATION, DRIVEWAYS, BUILDINGS, STRUCTURES, MAILBOXES, SIGNS, FENCES, AND LANDSCAPING ALONG PROPOSED CONSTRUCTION AREAS.
8. 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 CONSTRUCTION.
9. THE CONTRACTOR IS RESPONSIBLE TO FIND AND MAINTAIN THEIR OWN EQUIPMENT AND MATERIAL STORAGE YARD.
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 COMPLETION OF WORK.

GENERAL NOTES:










1. 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 SHALL 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 BE RESPONSIBLE FOR MAINTENANCE OF ALL NEWLY PLANTED GRASS OR VEGETATION UNTIL WELL ESTABLISHED AND ACCEPTED BY THE MAINTAINING AGENCY.
2. 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 NECESSARY 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.
3. 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.
4. 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). ALL 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).
5. ALL PEDESTRIAN FACILITIES PROPOSED WITHIN THIS PLAN SET ARE GRAPHICAL IN NATURE UNLESS SPECIFICALLY NOTED IN 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.
6. 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.
7. UNSUITABLE MATERIALS ENCOUNTERED DURING EXCAVATION (MUCK, PEAT, CRUSHED CONC., ETC.) SHALL BE REMOVED FROM THE CONSTRUCTION AREAS AND BACKFILLED WITH SUITABLE MATERIALS.
8. 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 CONTROL DUST.
9. 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 PROVIDED 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 REQUIRES TESTING.
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 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:

2. 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).
3. 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.
4. 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.
5. 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 BY SAID SURVEYOR AS TO BEING AN ACCURATE PERPETUATION OF THE DEPICTED CONTROL MONUMENTATION PRIOR TO THE COMPLETION OF THE PROJECT.
6. 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
BUREAU OF SURVEYAND MAPPING
3900 COMMONWEALTH BOULEVARD, M.S. 100
TALLAHASSEE, FLORIDA 32399
PHONE (850) 245–2555
8. 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 OF 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

No.	Date	Revision	By	No.	Date	Revision	By	 www.cphcorp.com	A Full Service A & E Firm Architects M / E / P Engineers Planners Environmental Surveyors Landscape Architects Traffic/Transportation	Offices In: • Florida • Puerto Rico • Connecticut • Maryland • Texas	Designed by:	CJT	Date:	05/09/2024	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			General Notes	Sheet No. 21
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											Approved by:	MCC								
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SURVEY NOTES (CONTINUED):

9. 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 717,874.83 FEET
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.
2. 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.
3. 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.
4. 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:

1. 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.

2. ALL EXISTING UTILITIES ARE TO BE ADJUSTED BY THE UTILITY OWNER UNLESS OTHERWISE NOTED IN THE PLANS. CONTRACTOR IS TO COORDINATE WITH THE UTILITY OWNER FOR SCHEDULING OF UTILITY 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.
3. 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 IN THE PLANS.
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)	KIRBY SMART	386-366-4586
CITY OF SANFORD (WATER/SEWER/RECLAIM)	DEBORAH COLES	407-688-5000 EXT-5524
CHARTER COMMUNICATIONS/SPECTRUM	LASZLO WAGNER	407-467-6187
FLORIDA POWER LIGHT (DISTRIBUTION)	CHRISTOPHER BUONANNI	407-328-1911
FLORIDA PUBLIC UTILITIES	JOHN HILL	352-636-7056
VERIZON/MCI	TIMOTHY COLE	407-506-8635
ZAYO GROUP	MARK MATHIS	813-499-0750
SEMINOLE COUNTY TRAFFIC	CHARLES WETZEL	407-665-5686

8. 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.).

9. 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.
2. 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.
3. ALL PERSONNEL WHO EXCAVATE, HANDLE, OR MAY COME IN CONTACT WITH CONTAMINATED SOILS SHALL BE OSHA 24-HOUR OR 40-HOUR HAZWOPER CERTIFIED, WITH ANNUAL 8-HOUR UPDATES AS NECESSARY.
4. TRAIN CONTRACTOR PERSONNEL IN THE PROPER USE OF PERSONNEL PROTECTIVE EQUIPMENT (PPE) AND THE PROPER HANDLING PROCEDURES FOR CONTAMINATED MEDIA.

5. STAGE OPERATIONS TO MINIMIZE THE TIME THAT EXCAVATIONS ARE OPEN AND THE TIME THAT EXCAVATIONS ARE EXPOSED TO THE WEATHER.
6. 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.
8. 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 VEHICLES.
9. 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:

1. 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. 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.

Drawing name: J:\50966\Roadway\Roadway\GNNTTR01_P01.dwg, May 09, 2024, 11:38am mcaulhman

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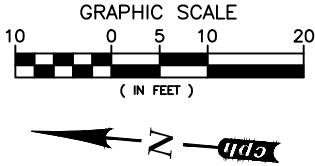
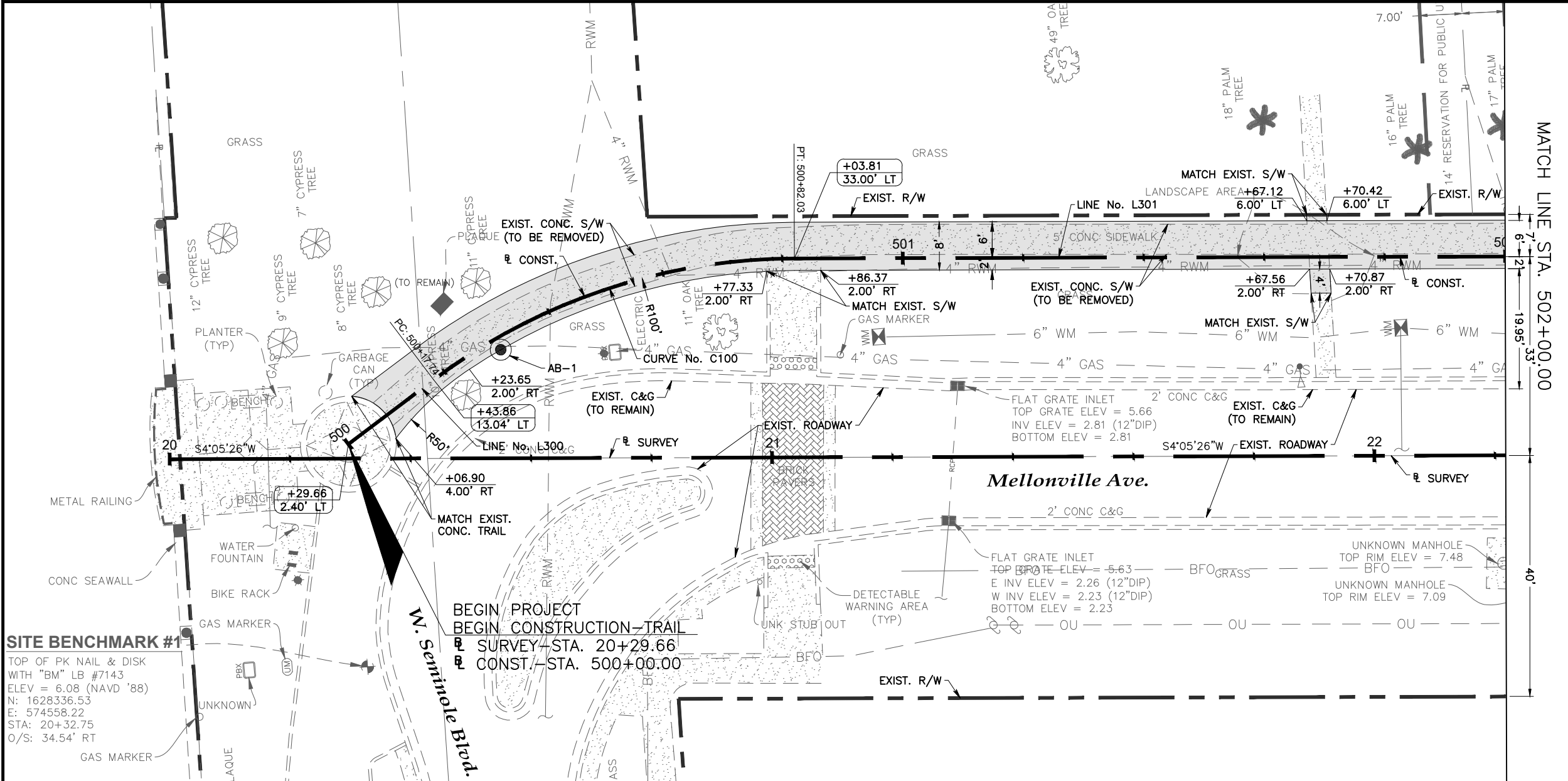
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Seminole County
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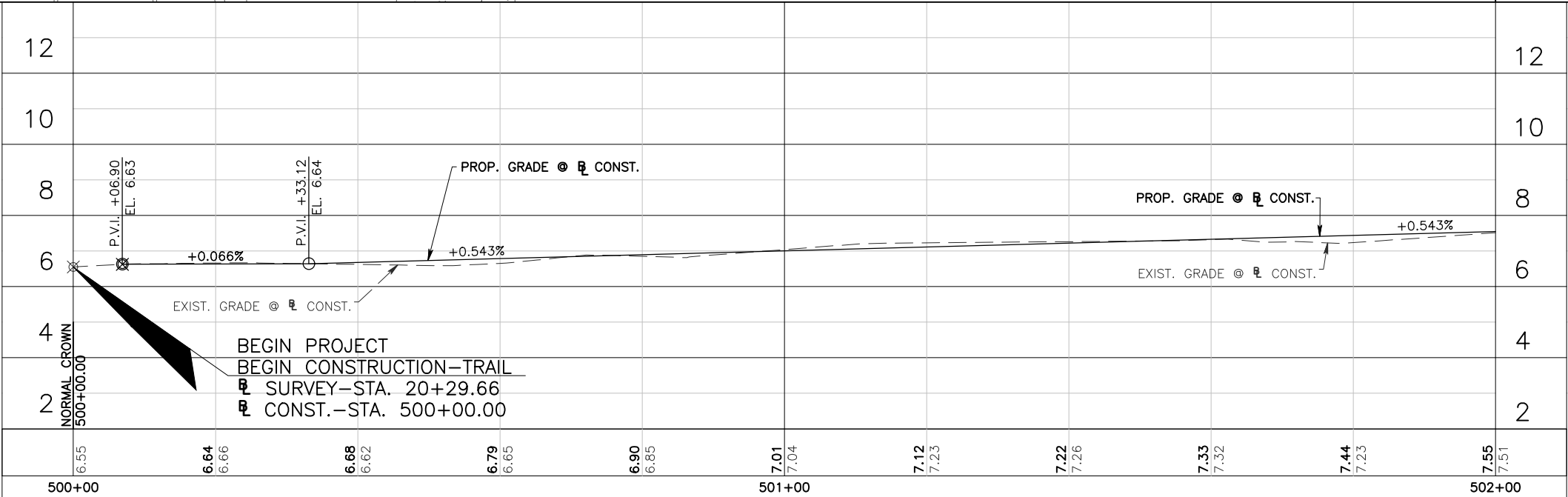
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General Notes	Sheet No. 22
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SITE BENCHMARK #1
TOP OF PK NAIL & DISK
WITH "BM" LB #7143
ELEV = 6.08 (NAVD '88)
N: 1628336.53
E: 574558.22
STA: 20+32.75
O/S: 34.54' RT

- +XX.XX
XX.XX' XX STATION/OFFSET
TO CONST.
- +XX.XX
XX.XX' XX STATION/OFFSET
TO SURVEY
- +XX.XX
XX.XX' XX CURB RETURN & DRIVEWAY
REF. POINT TO SURVEY
- CONST. 4" THICK
CONC. TRAIL



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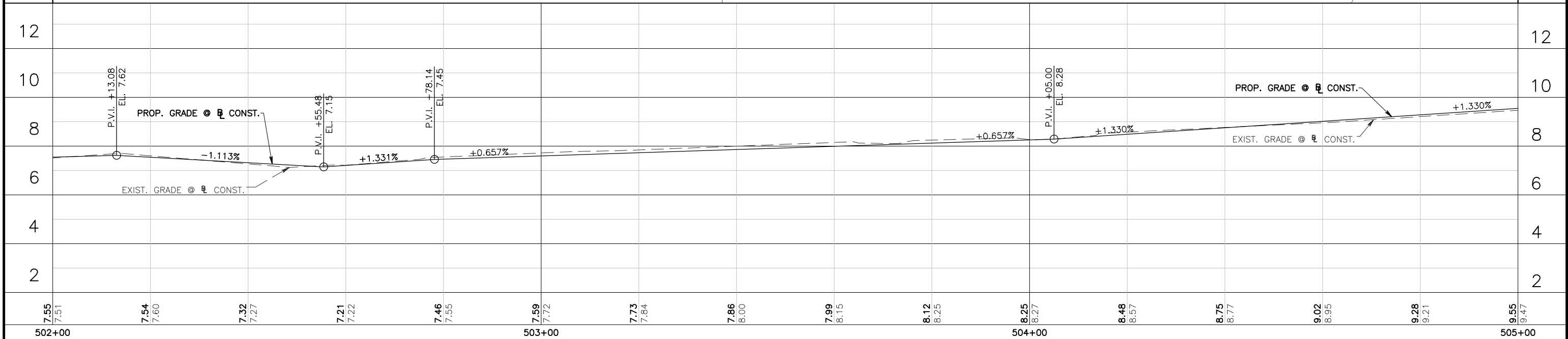
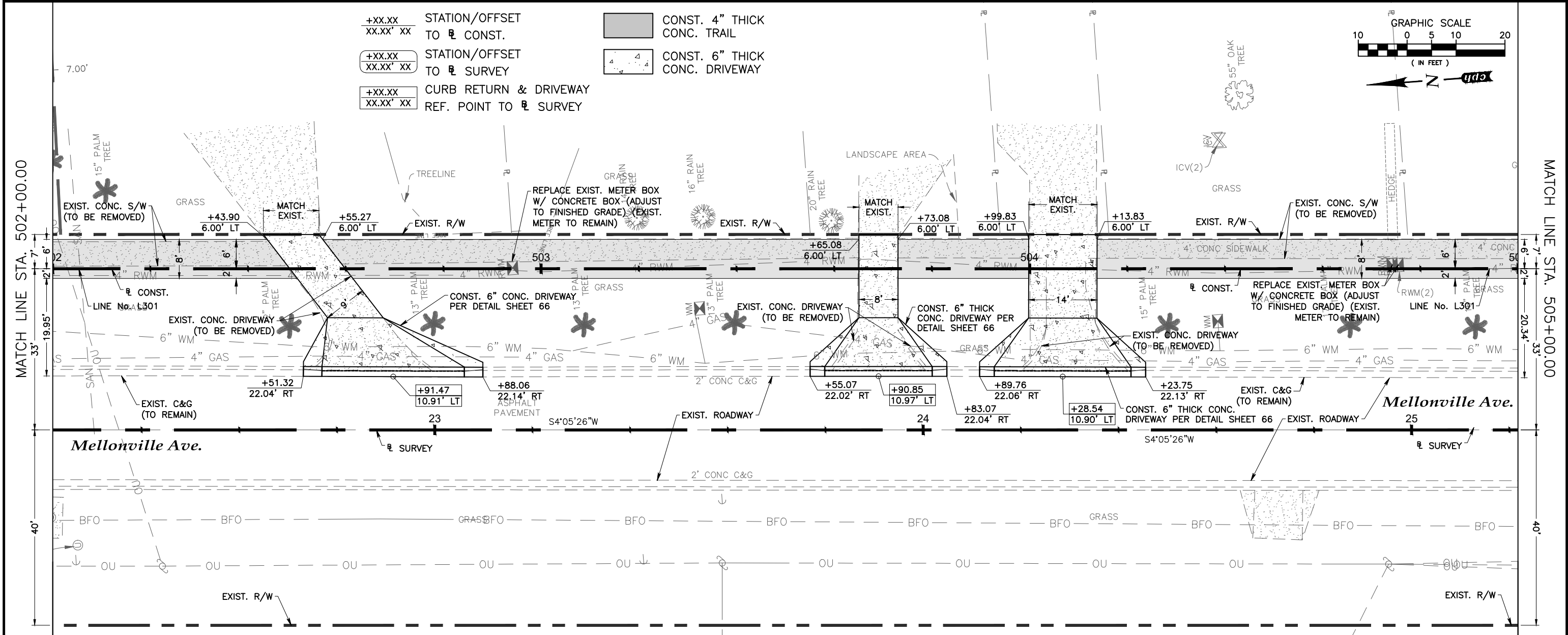
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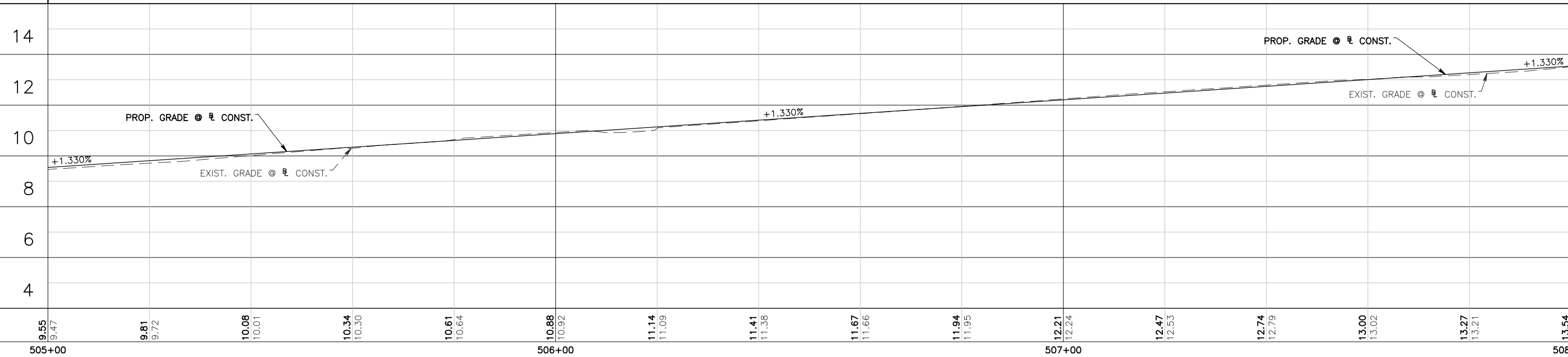
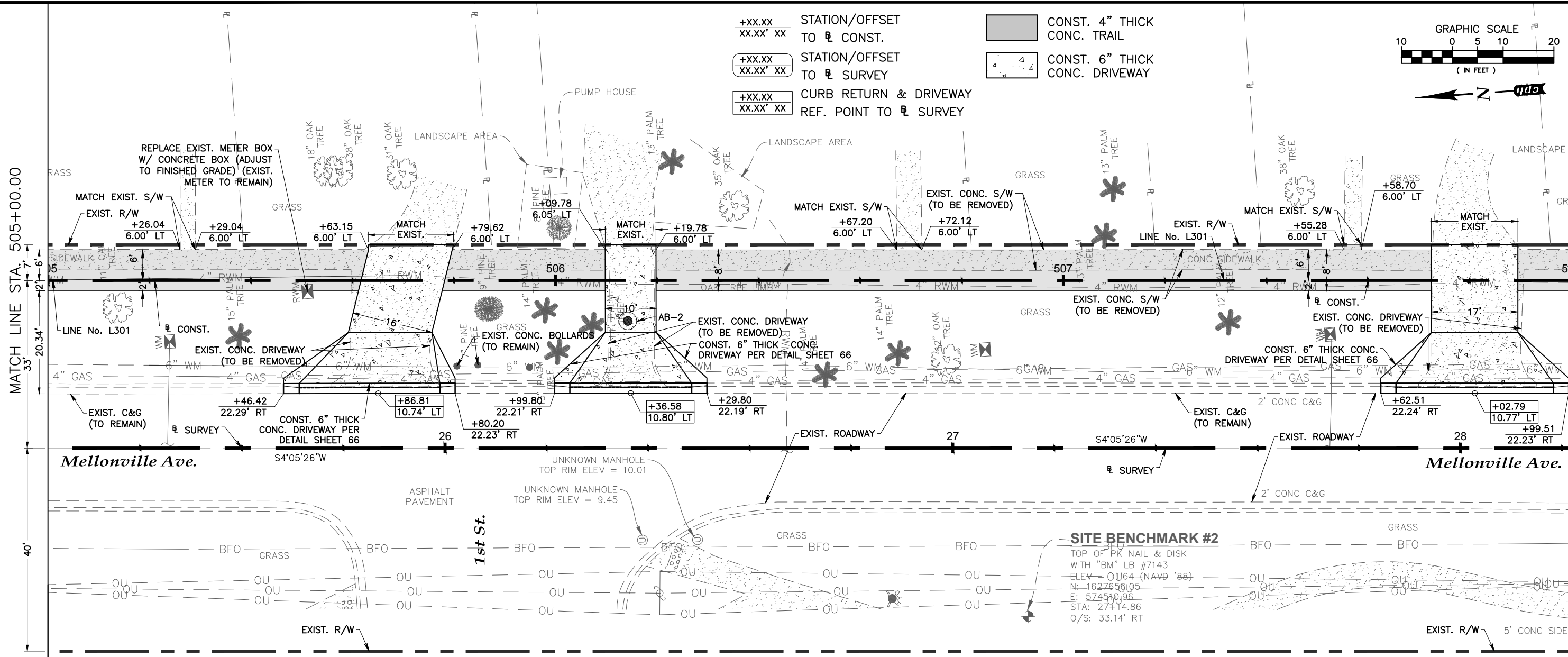
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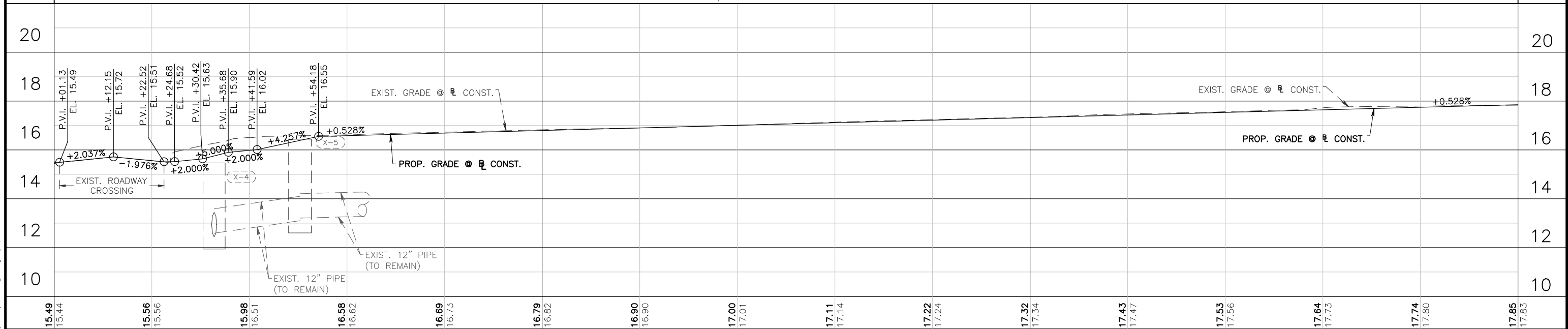
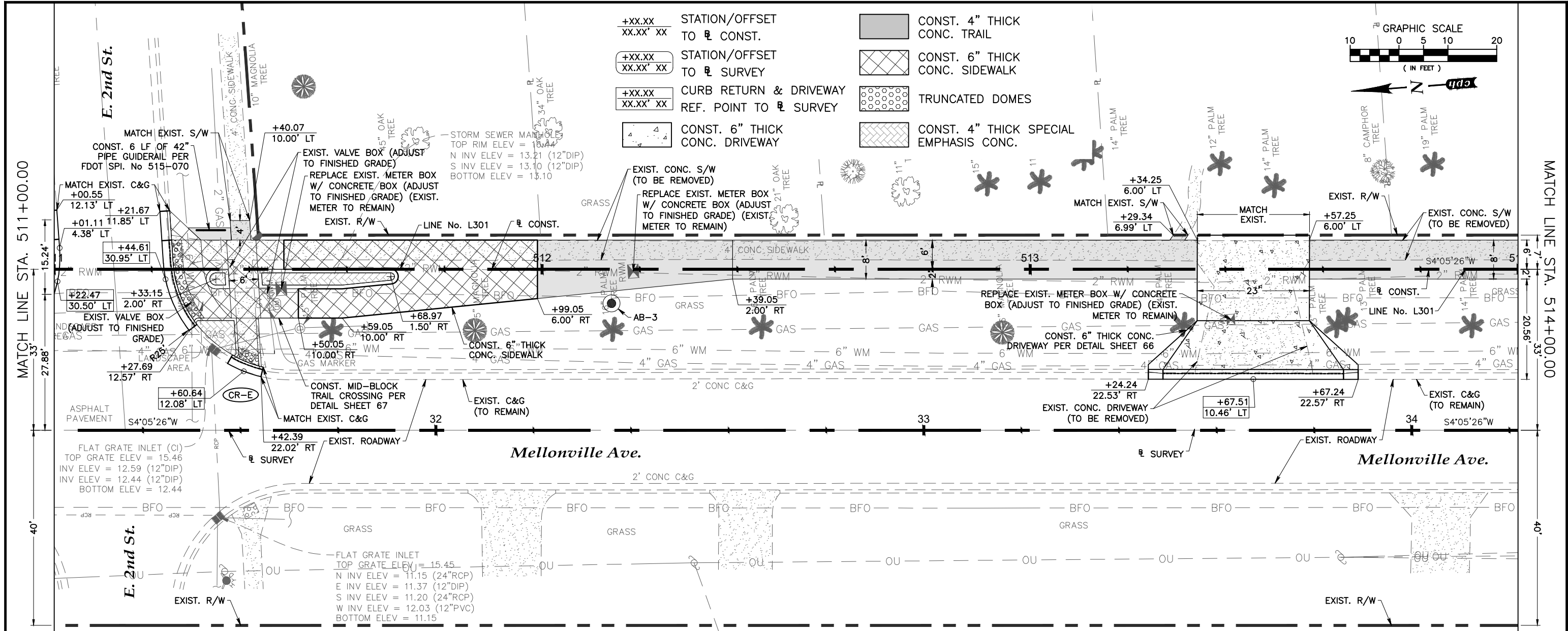
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Lake Monroe Trail Loop
Seminole County
Phase I

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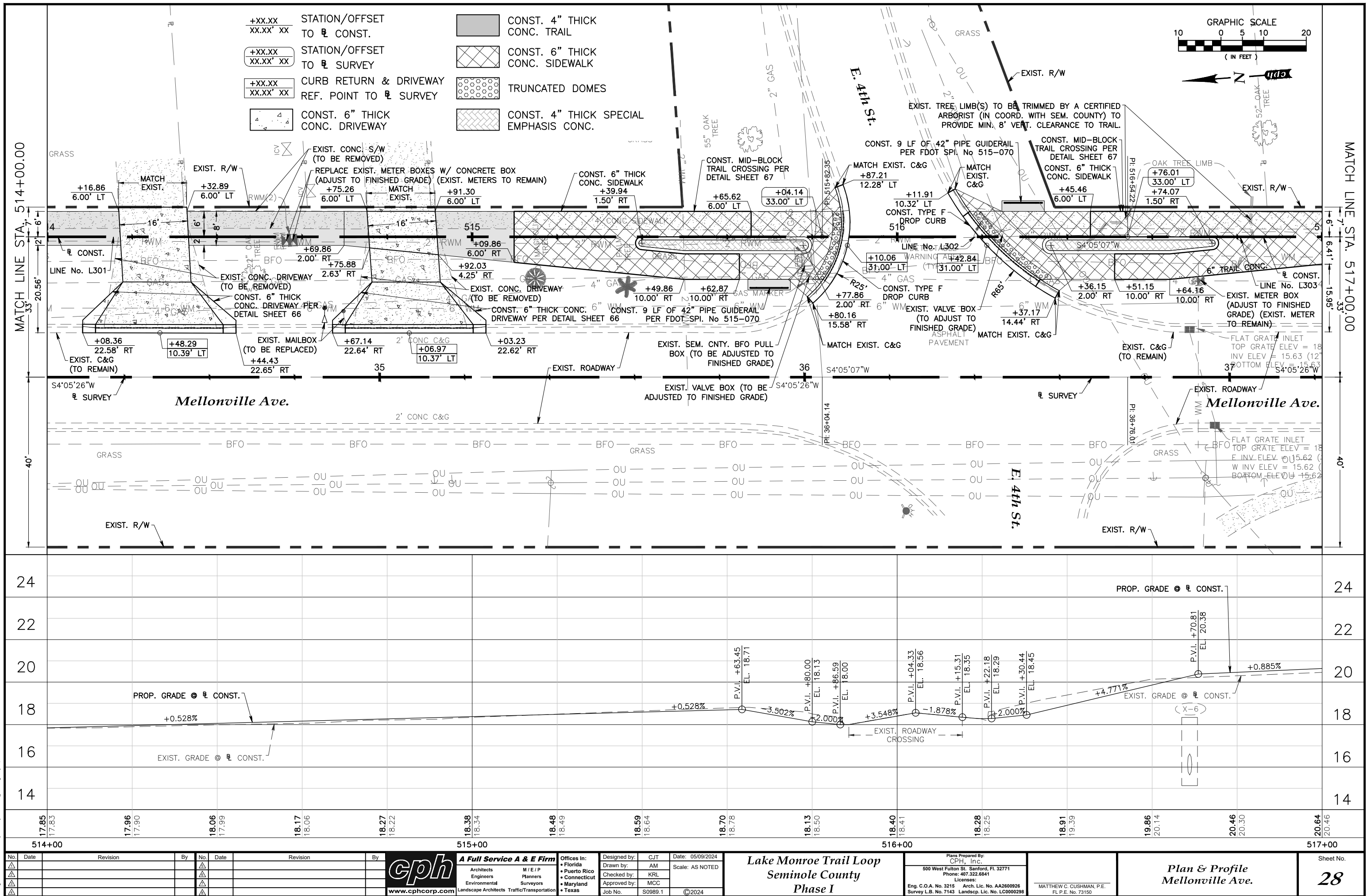
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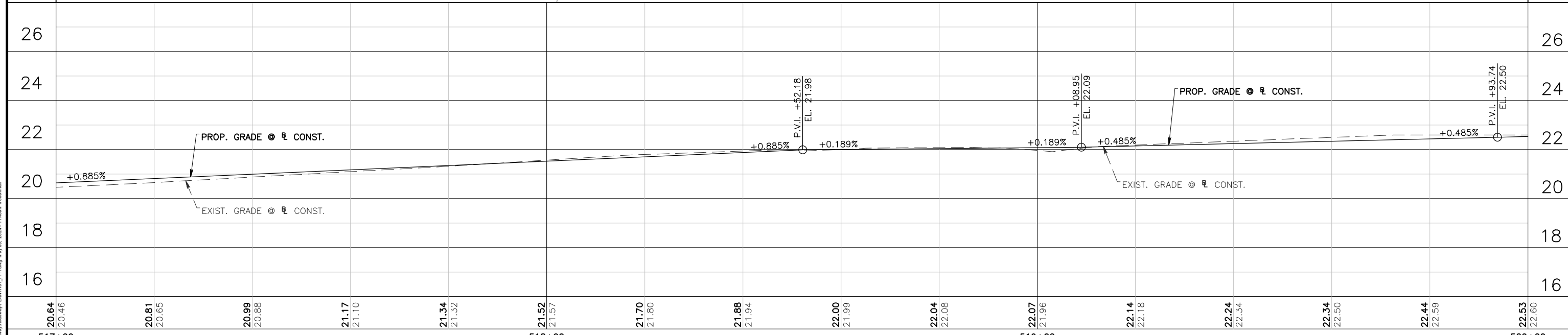
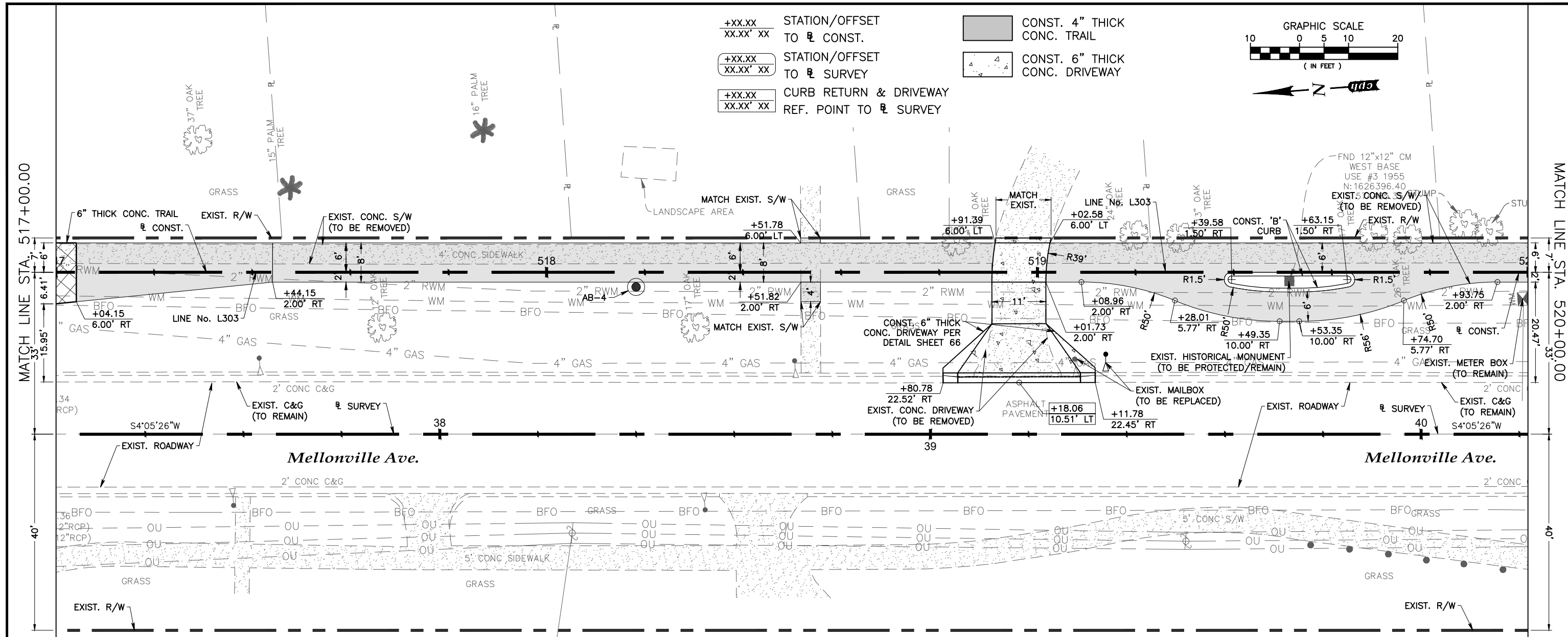
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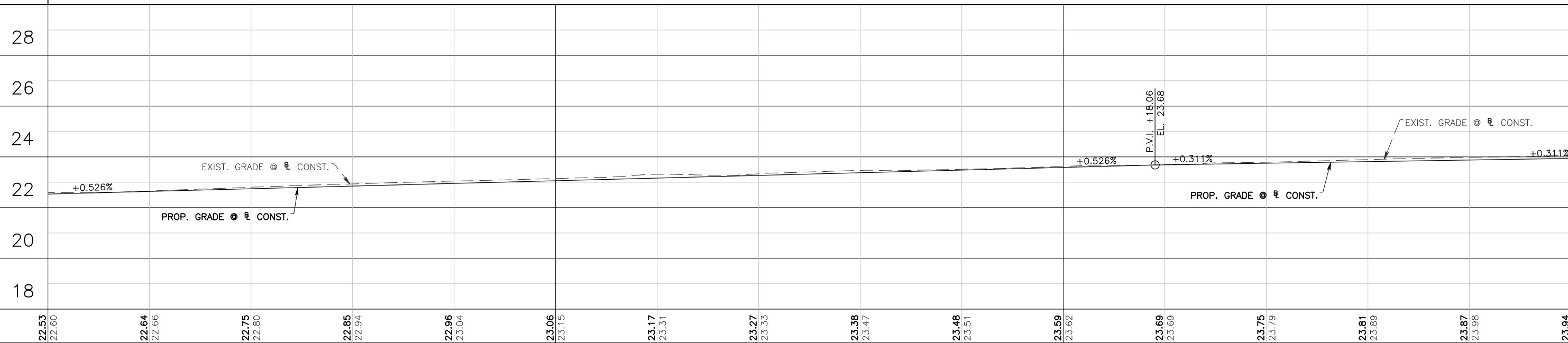
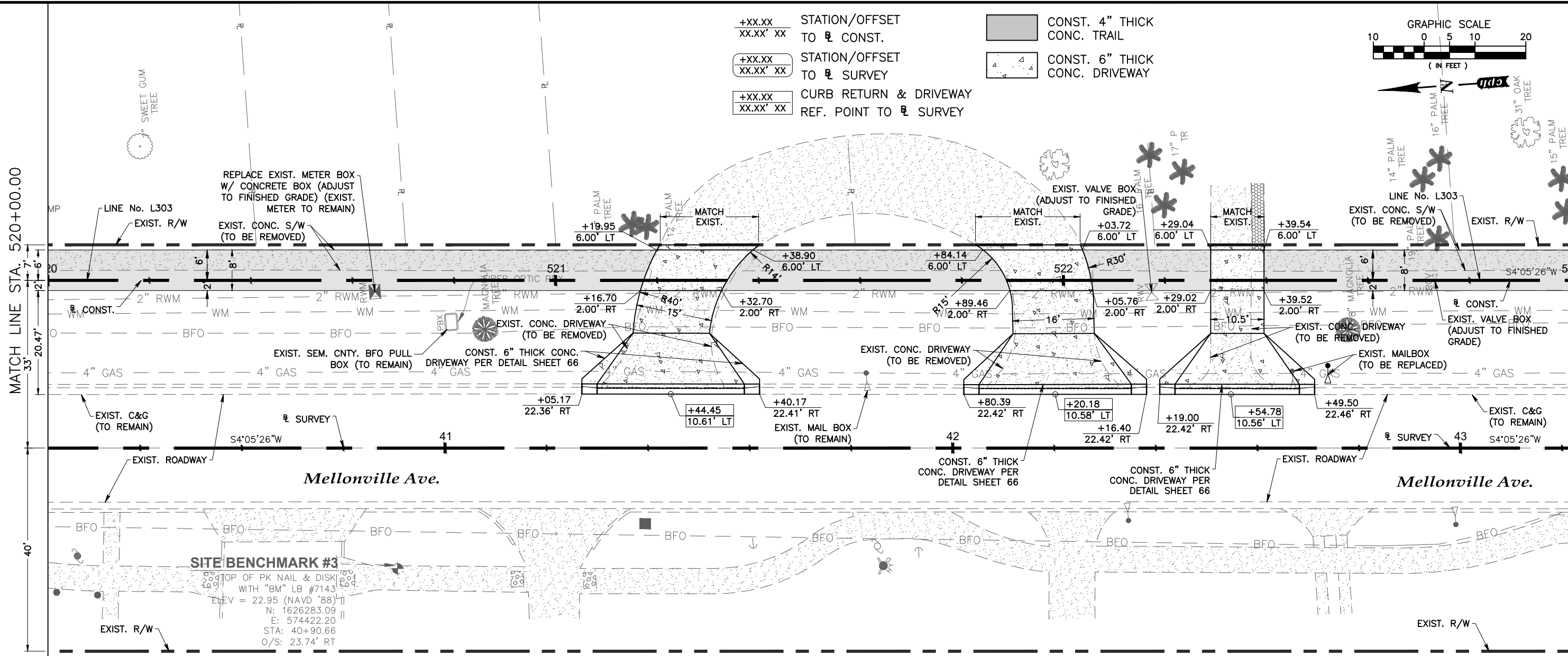
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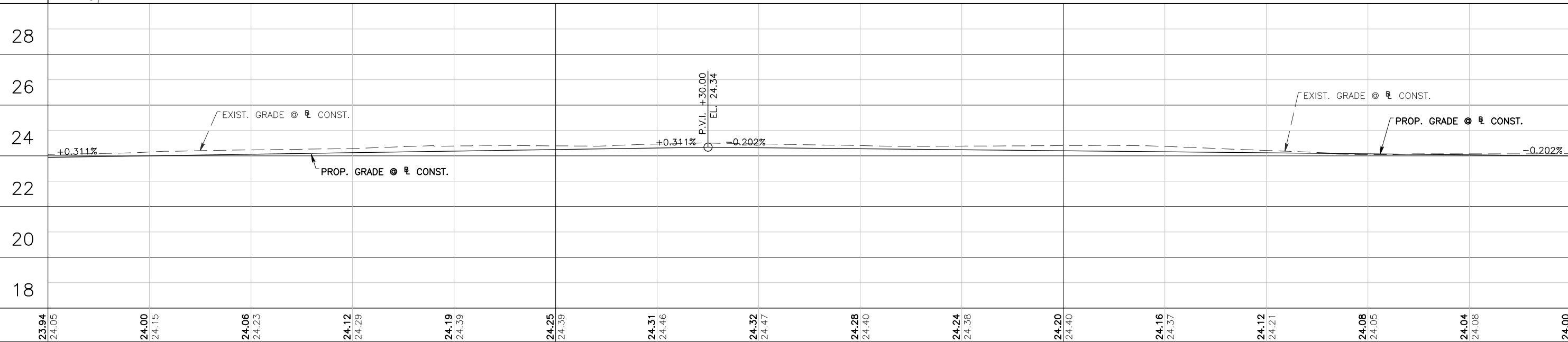
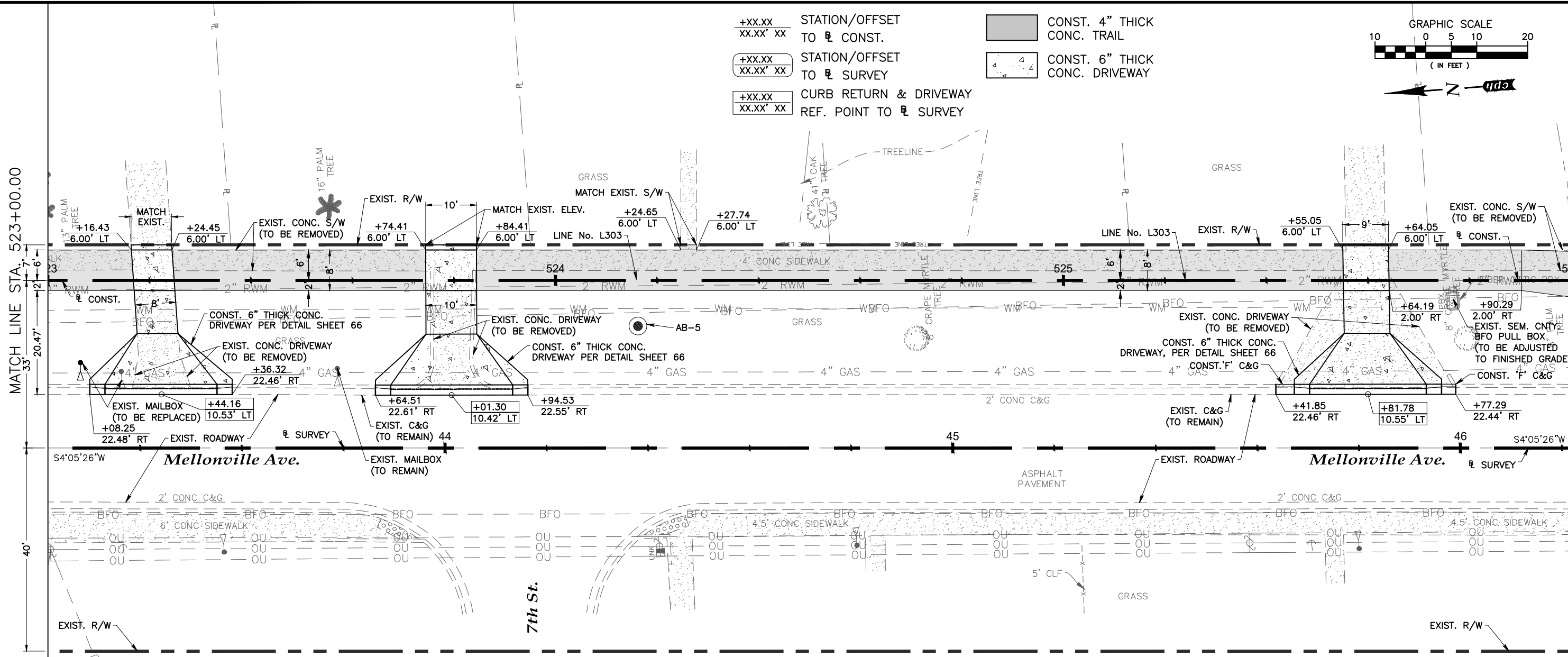
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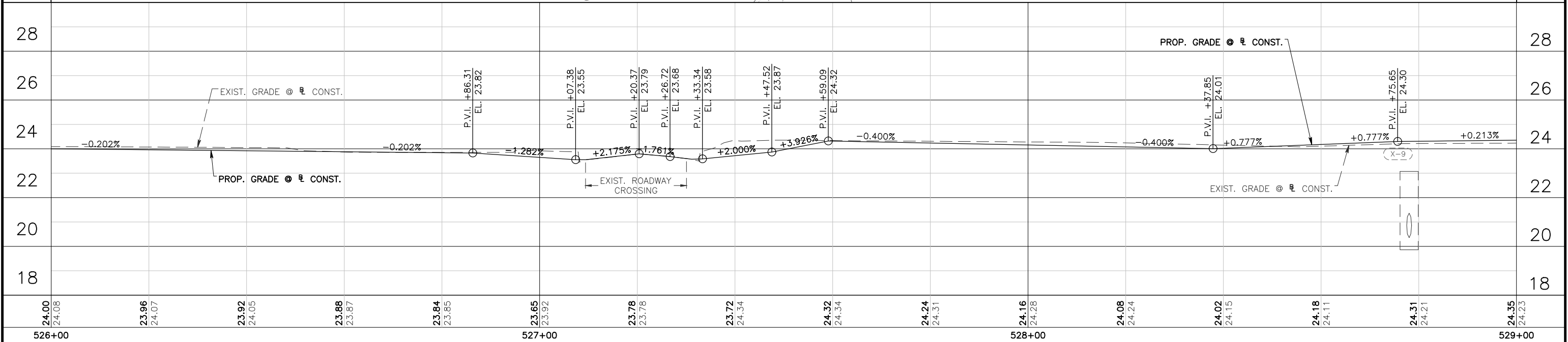
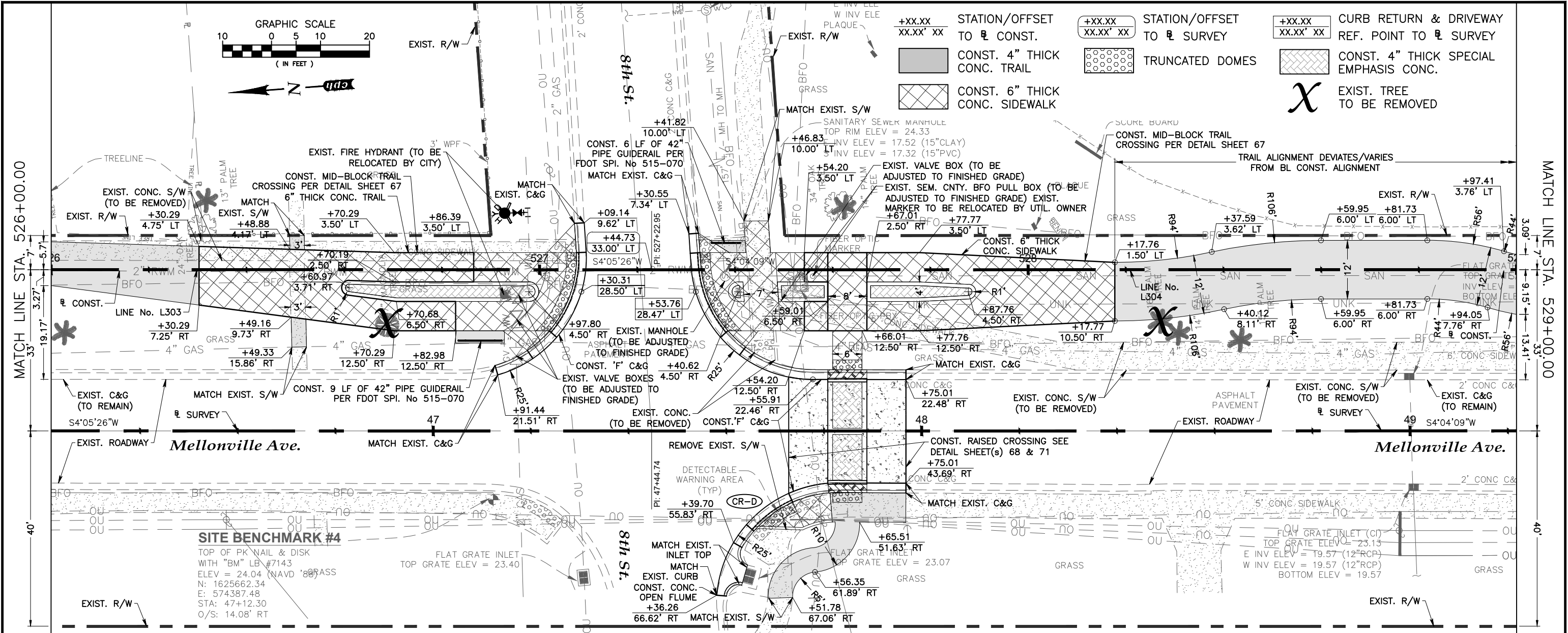
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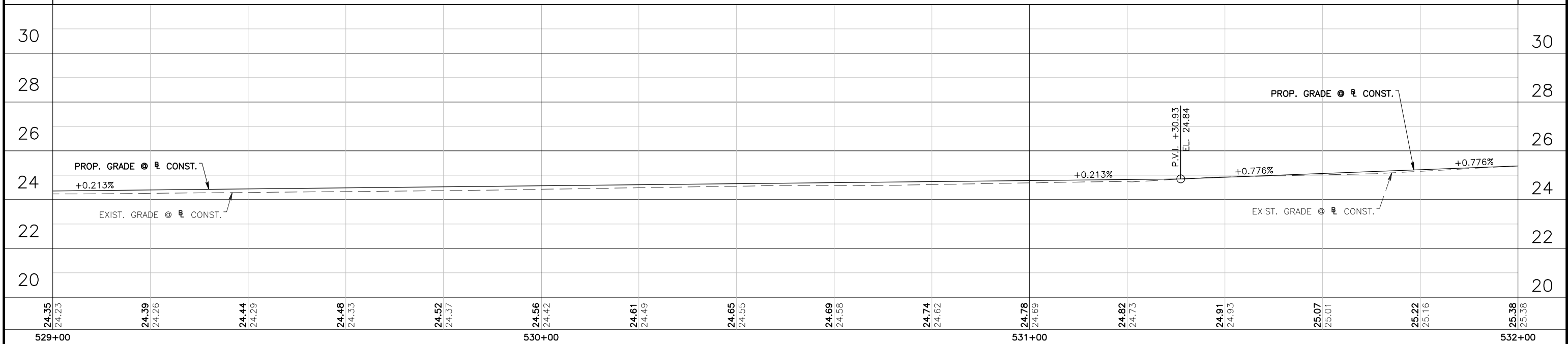
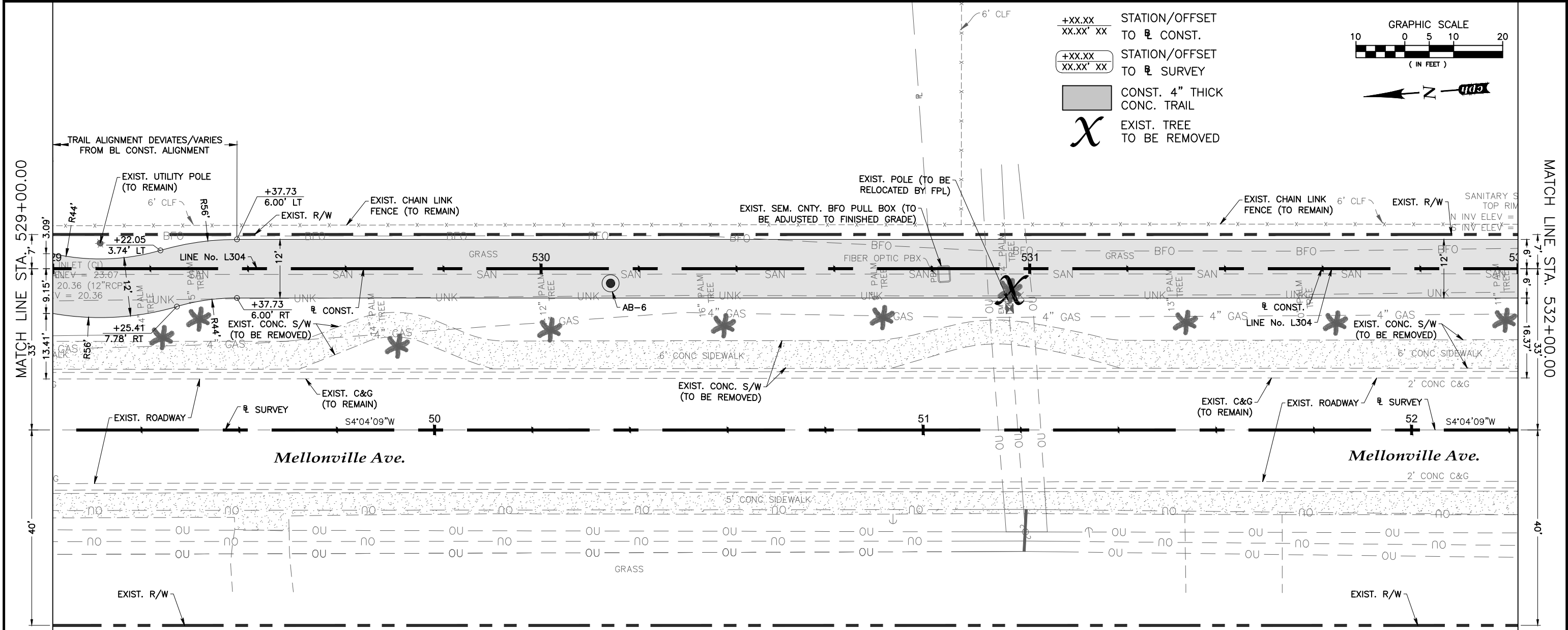
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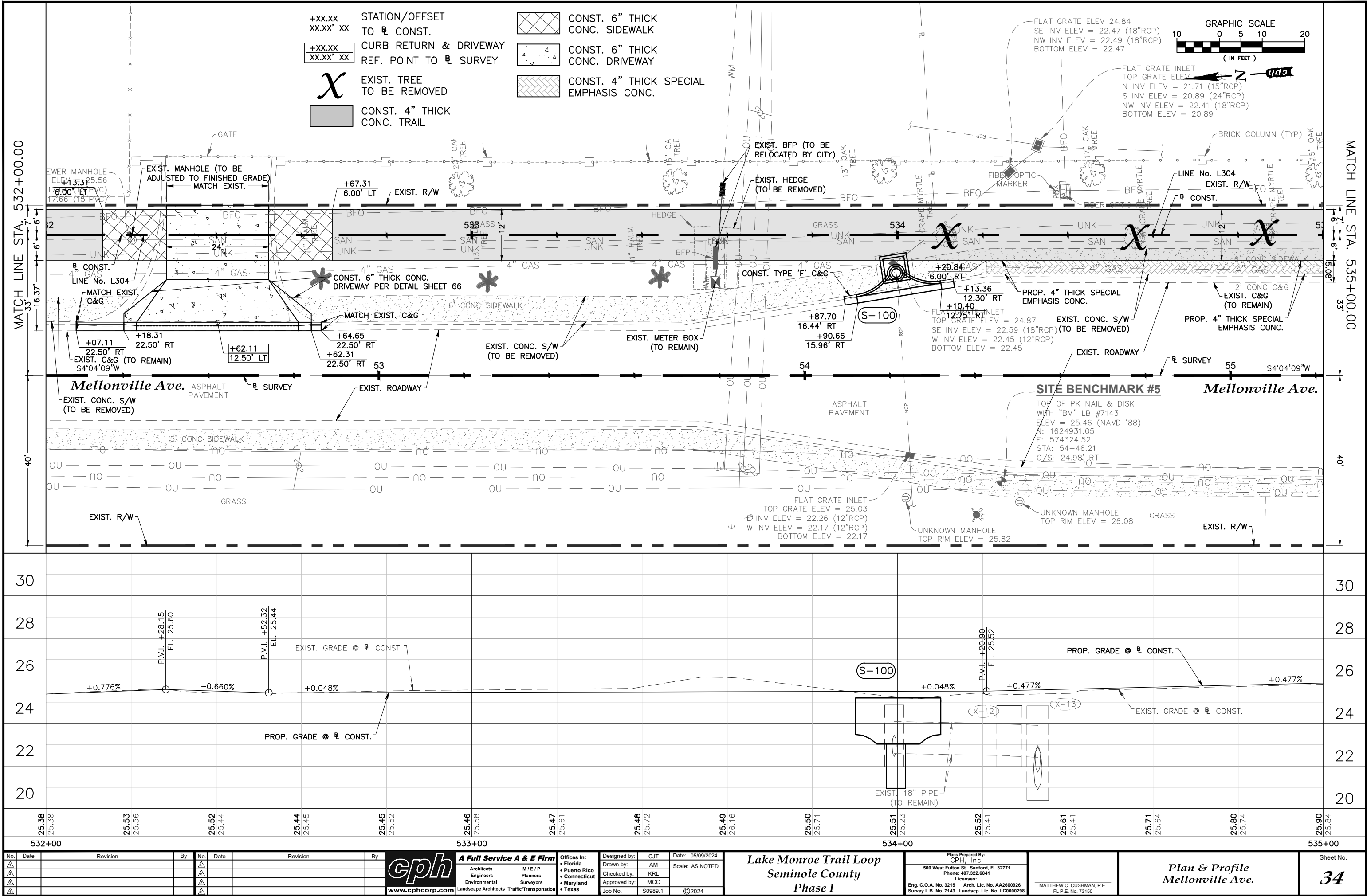
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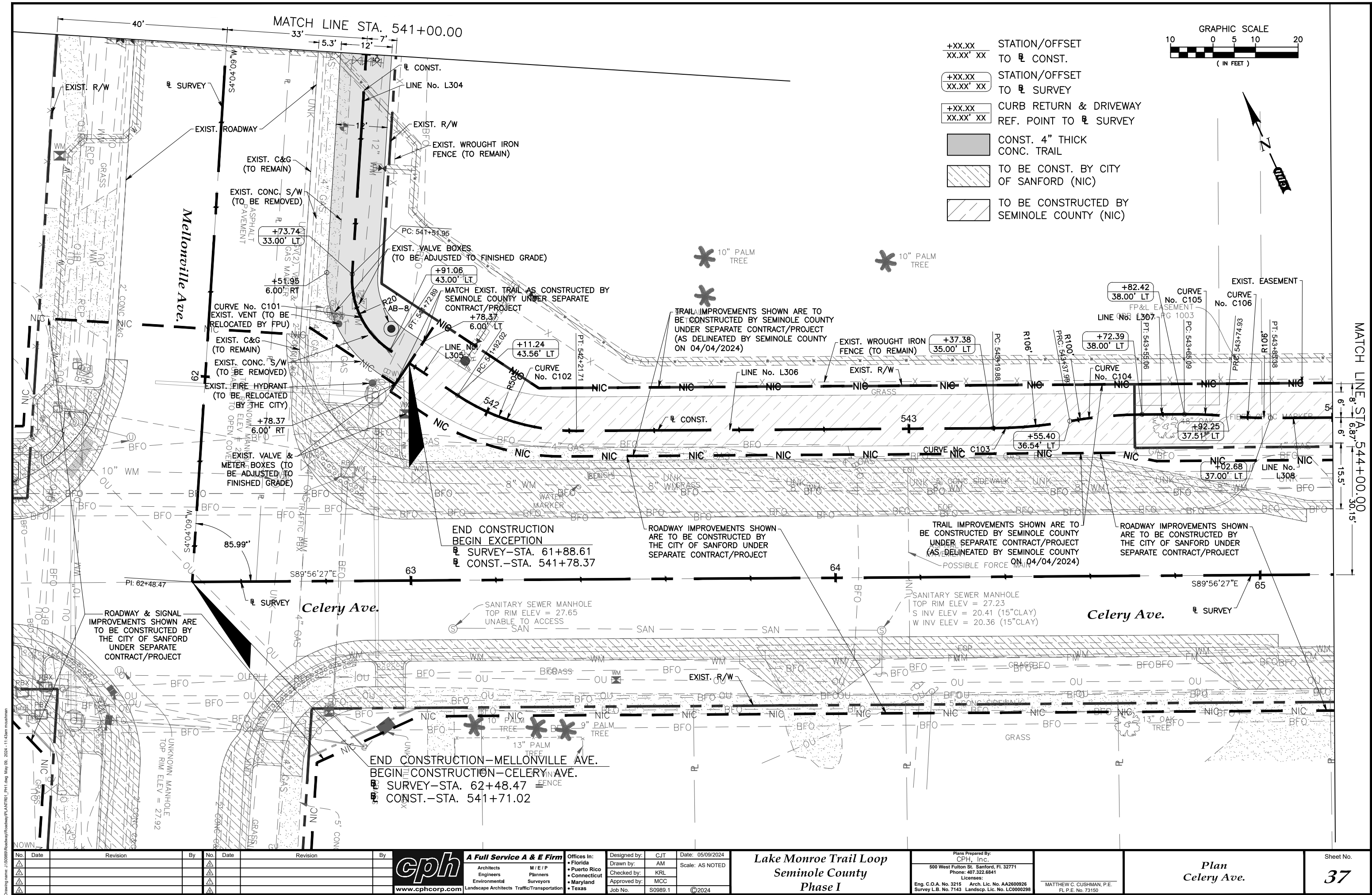
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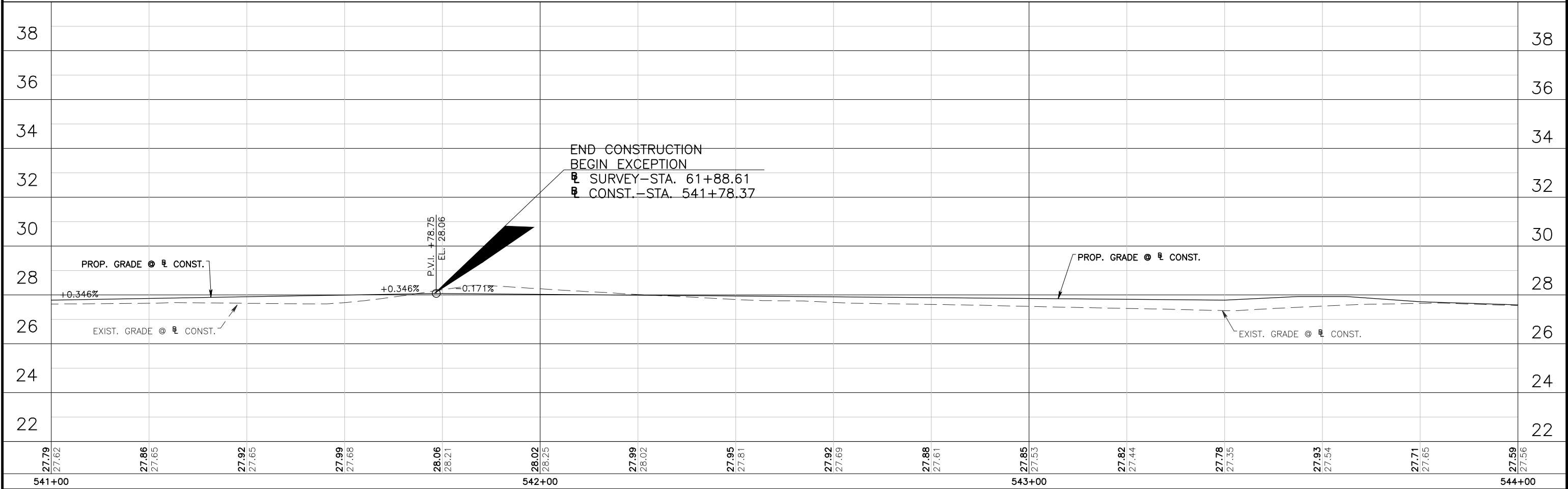
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Seminole County
Phase I

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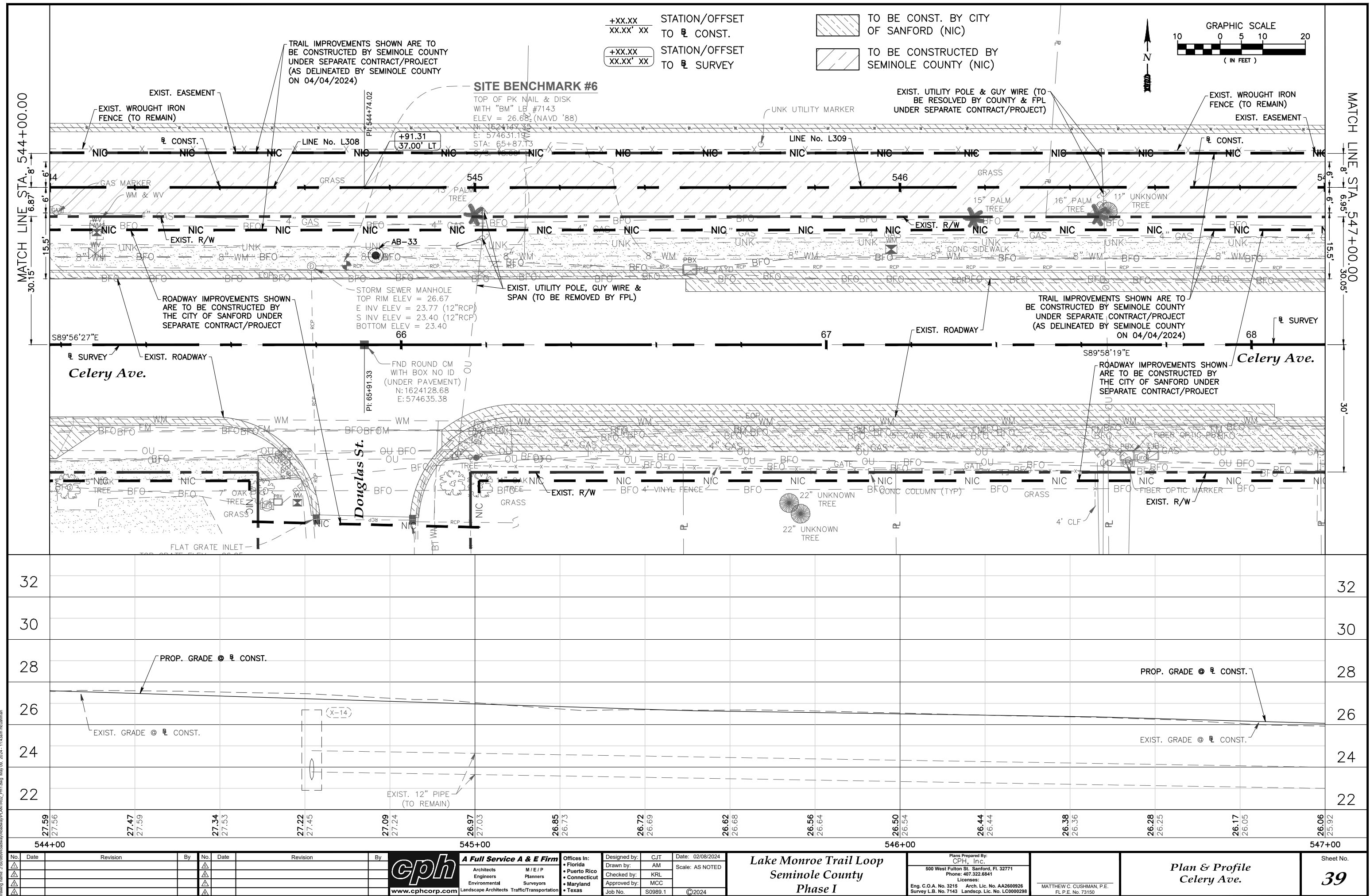
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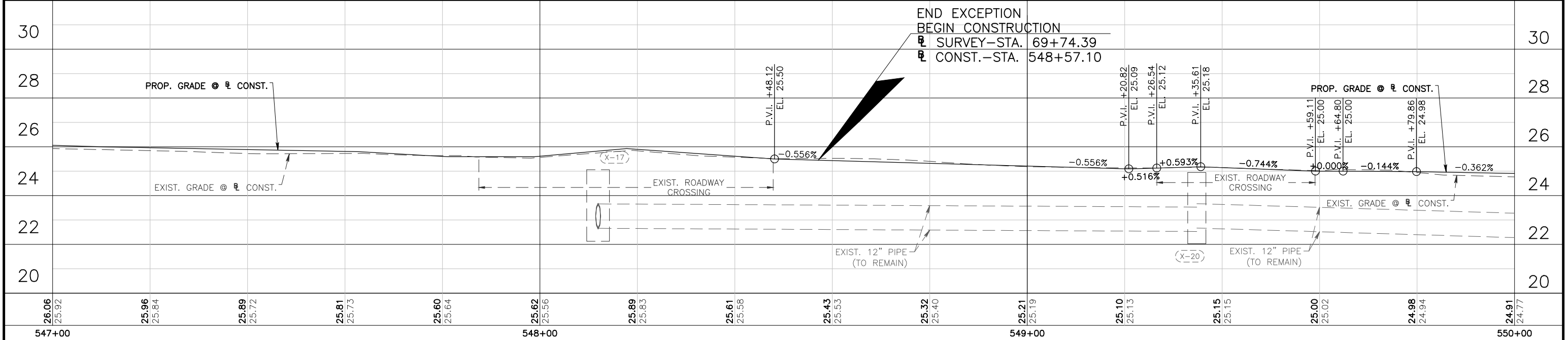
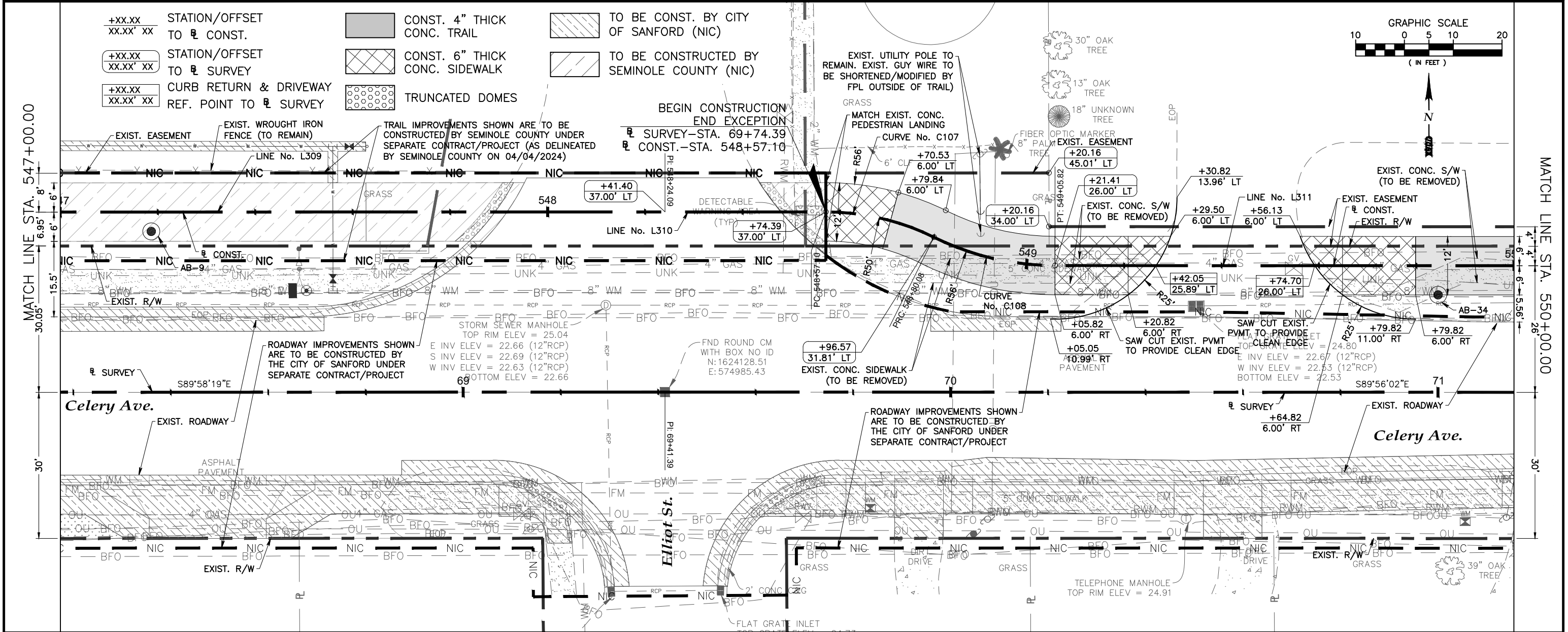
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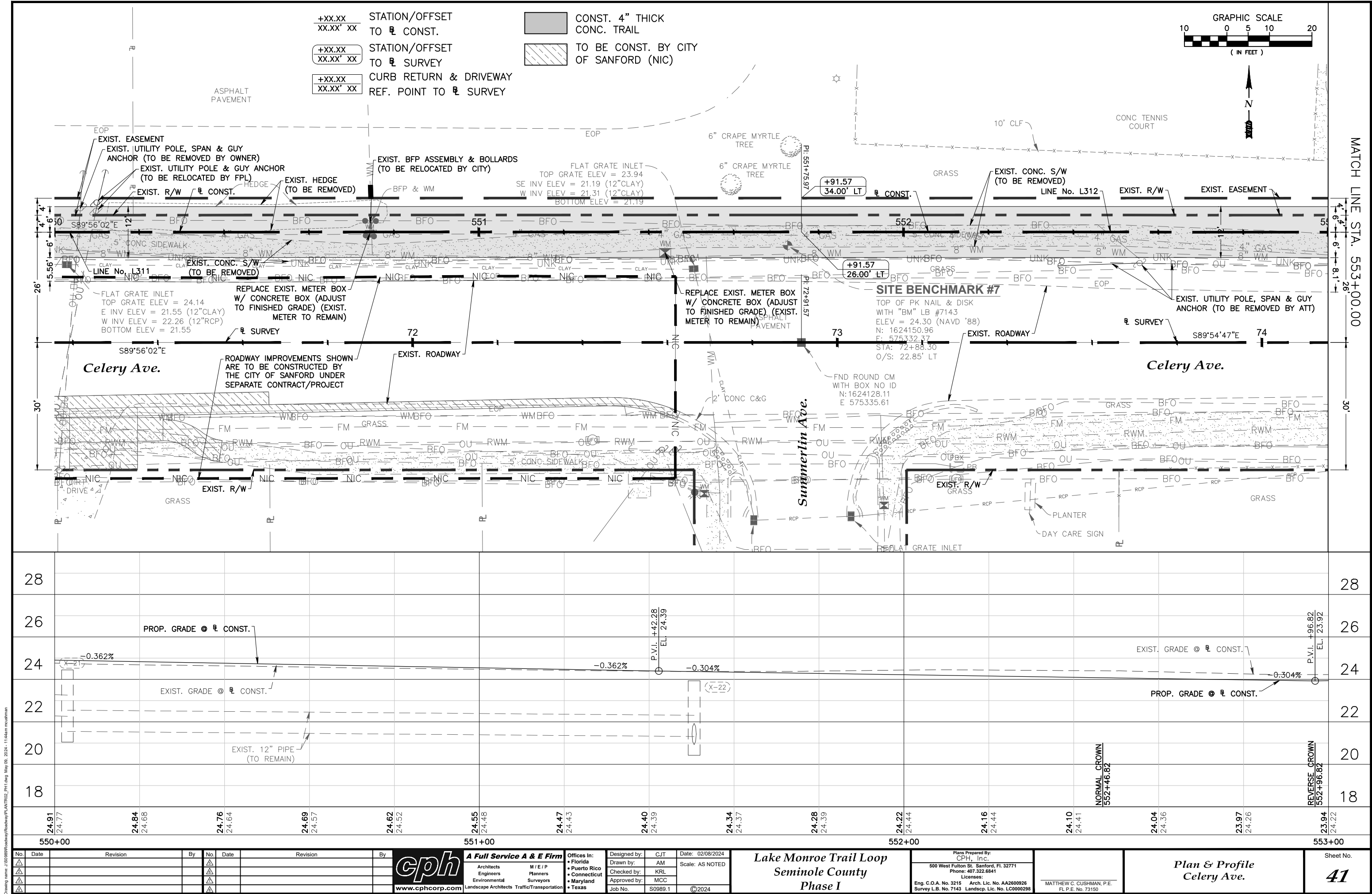
Profile
Celery Ave.

Sheet No.
38

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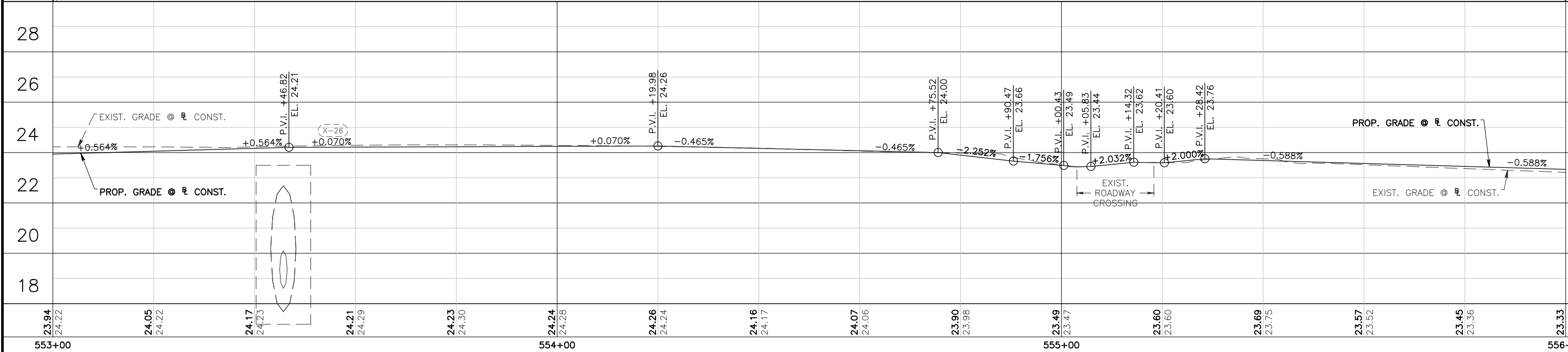
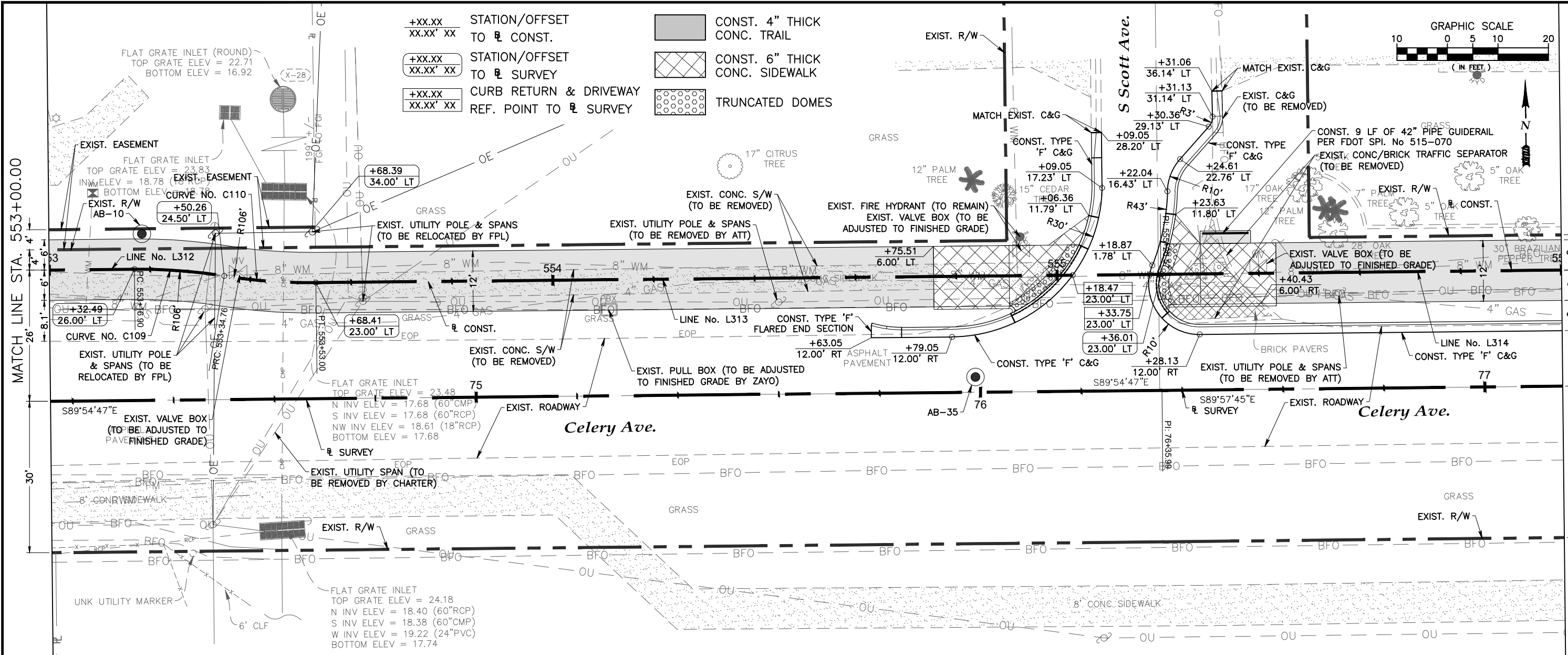
Lake Monroe Trail Loop
Seminole County
Phase I

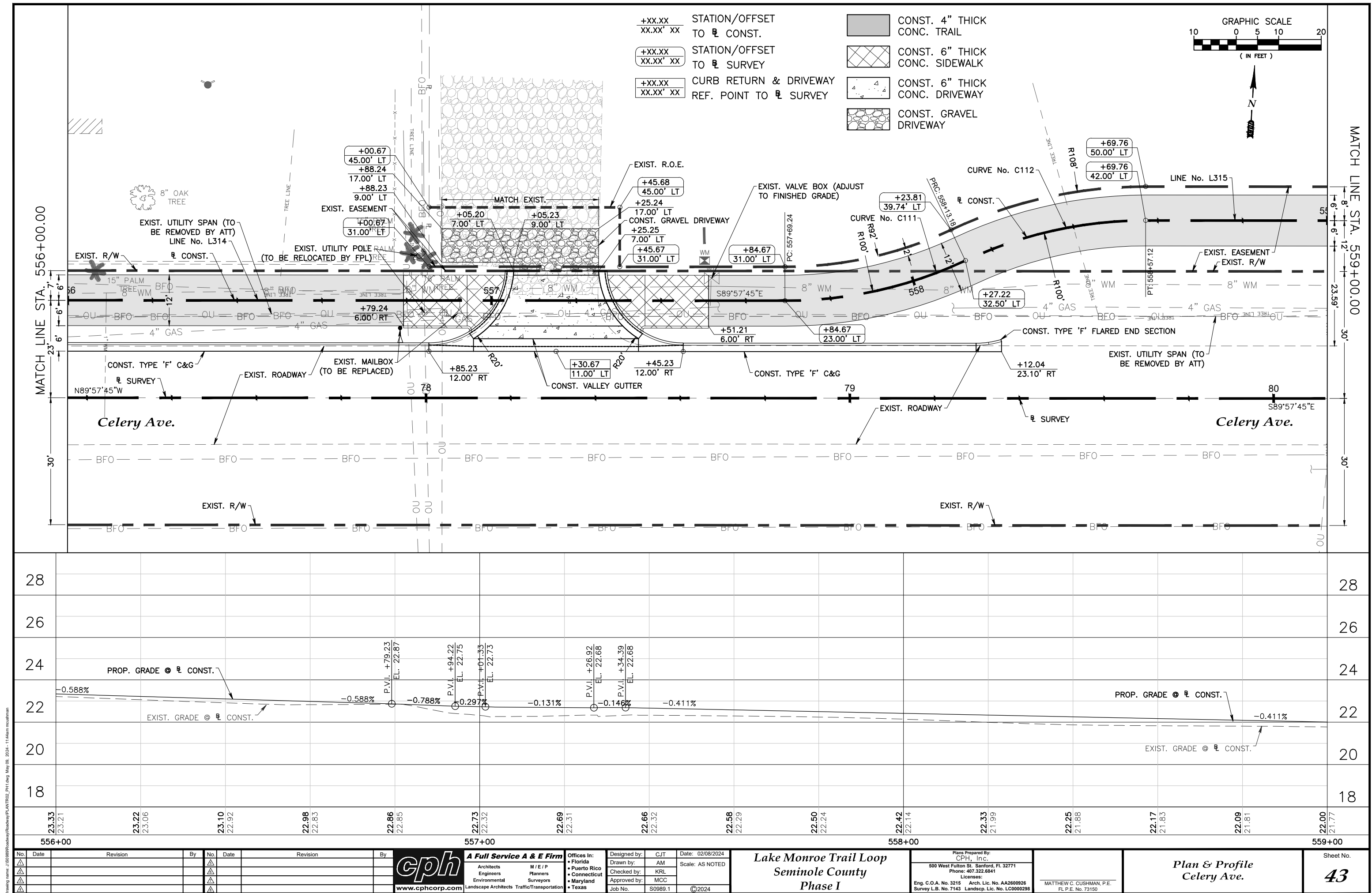
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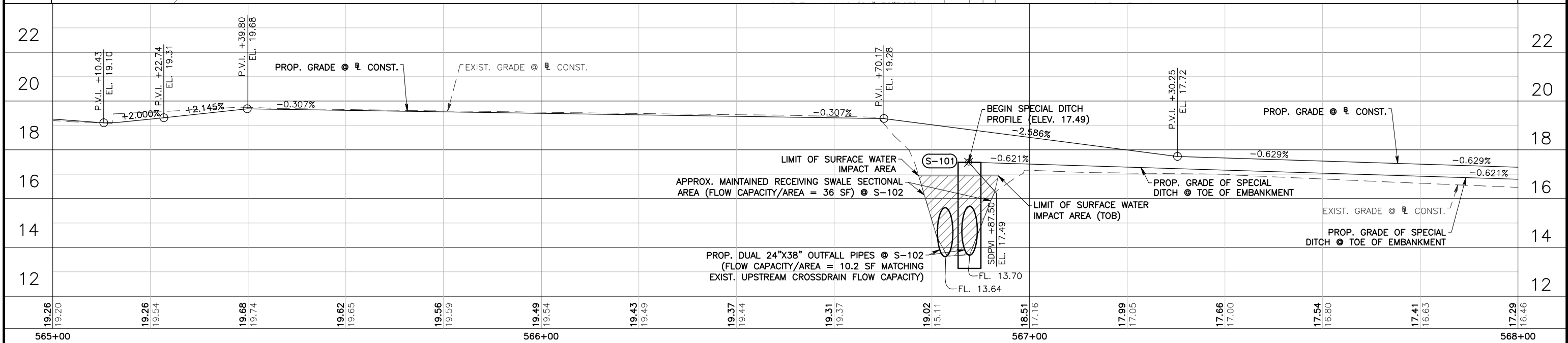
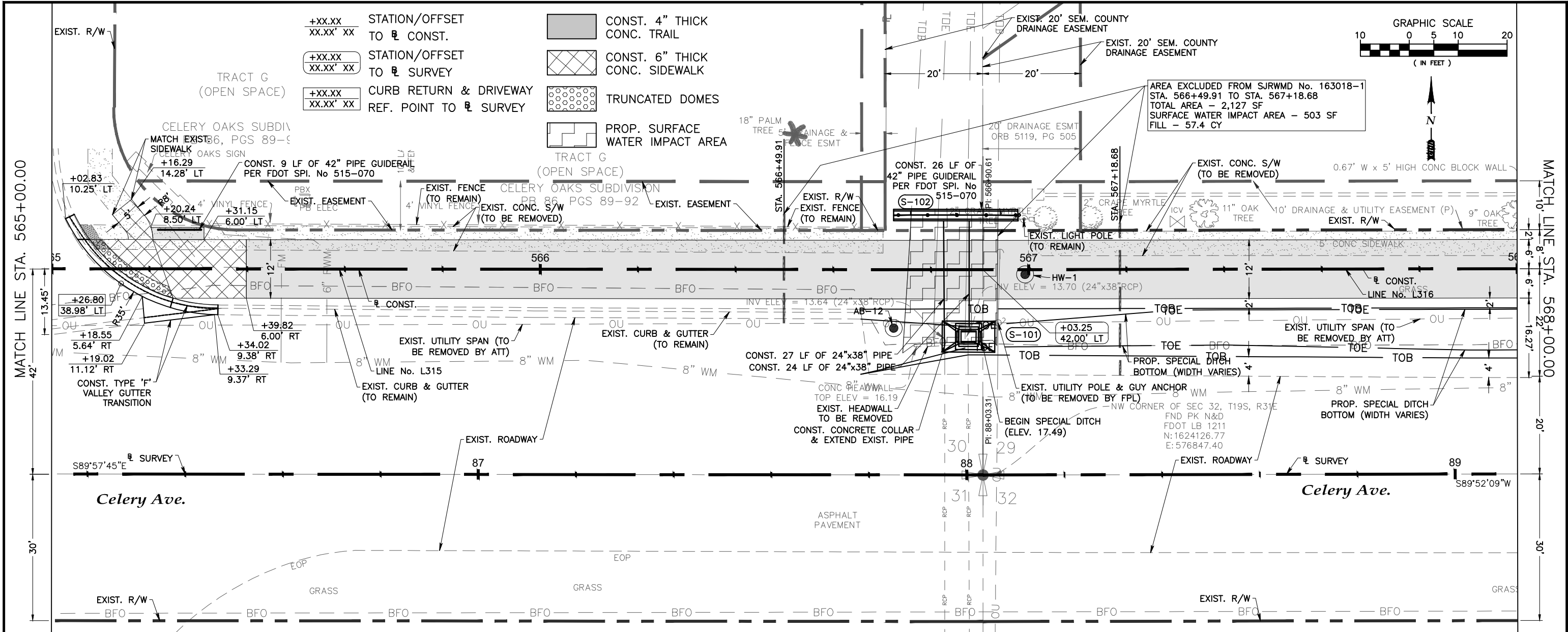
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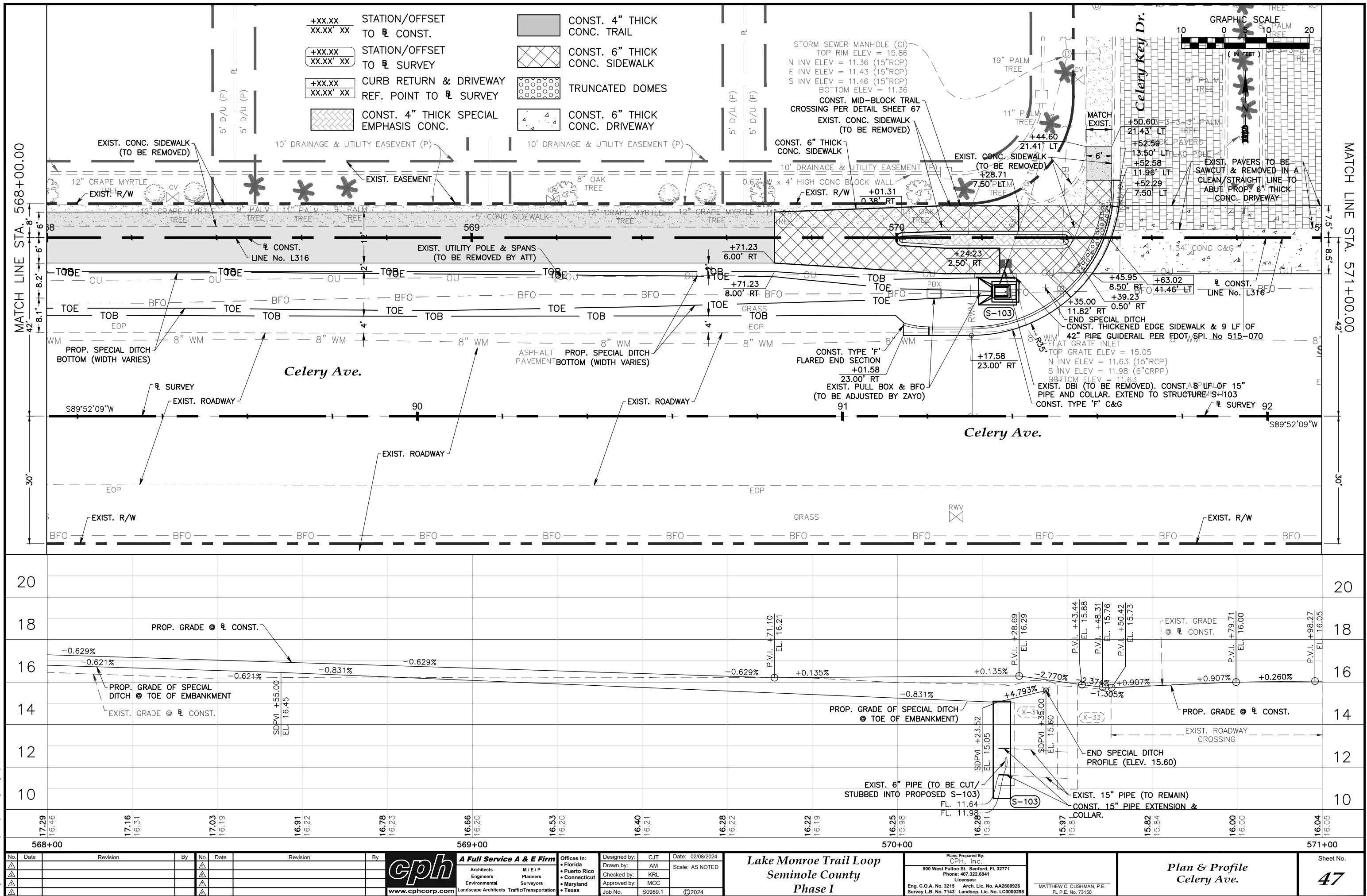
Plan & Profile
Celery Ave.

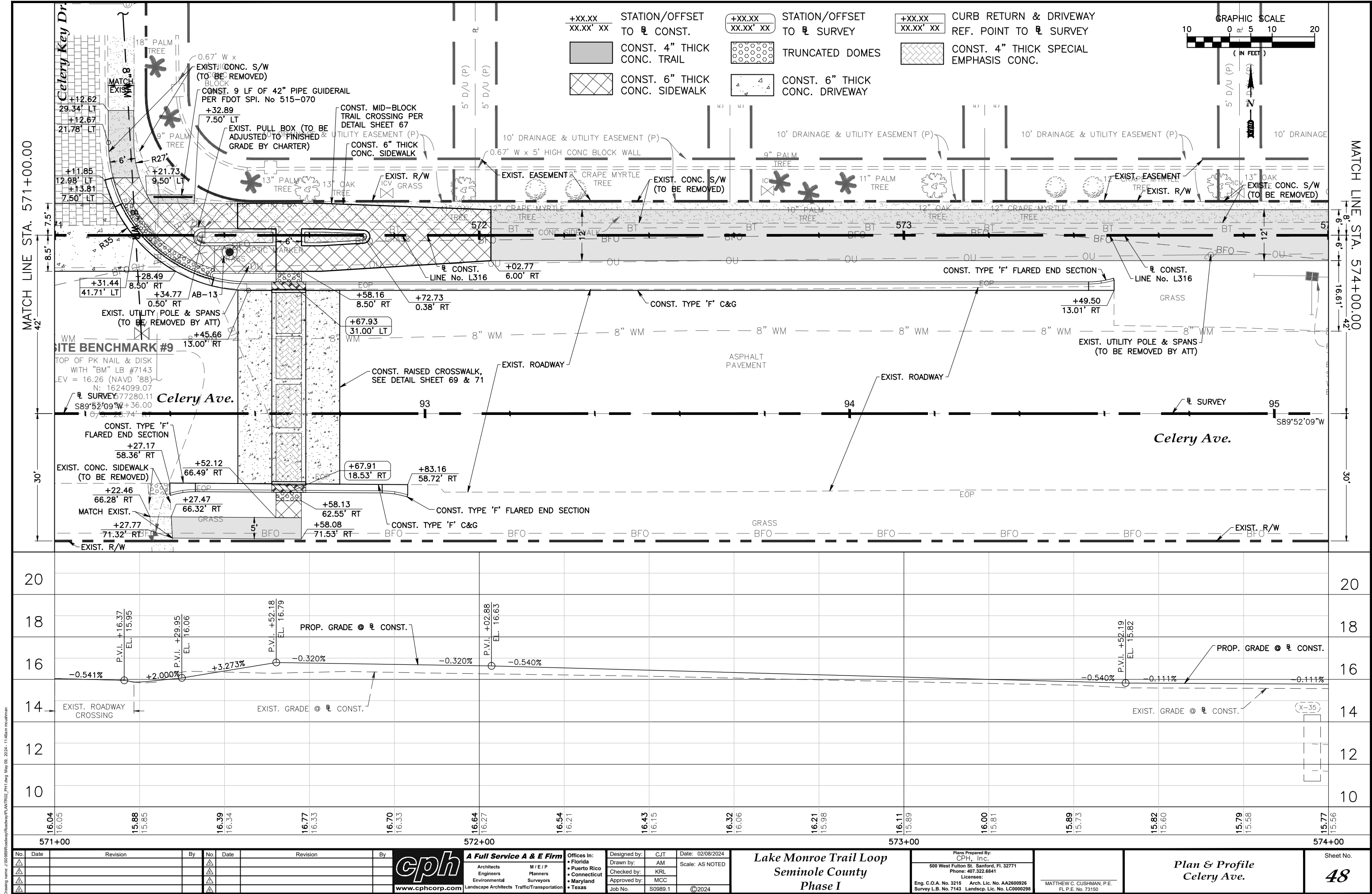
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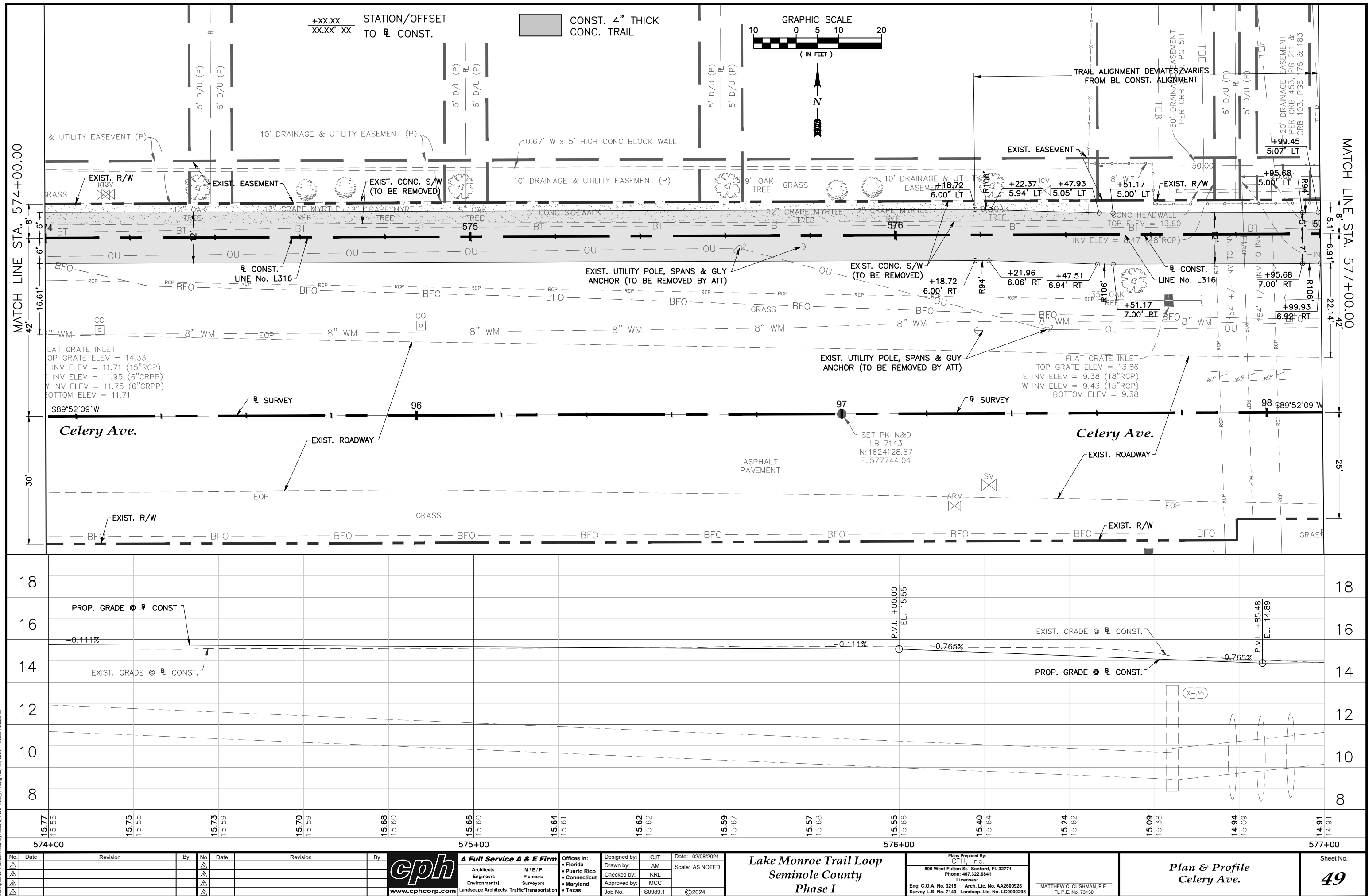
Lake Monroe Trail Loop
Seminole County
Phase I

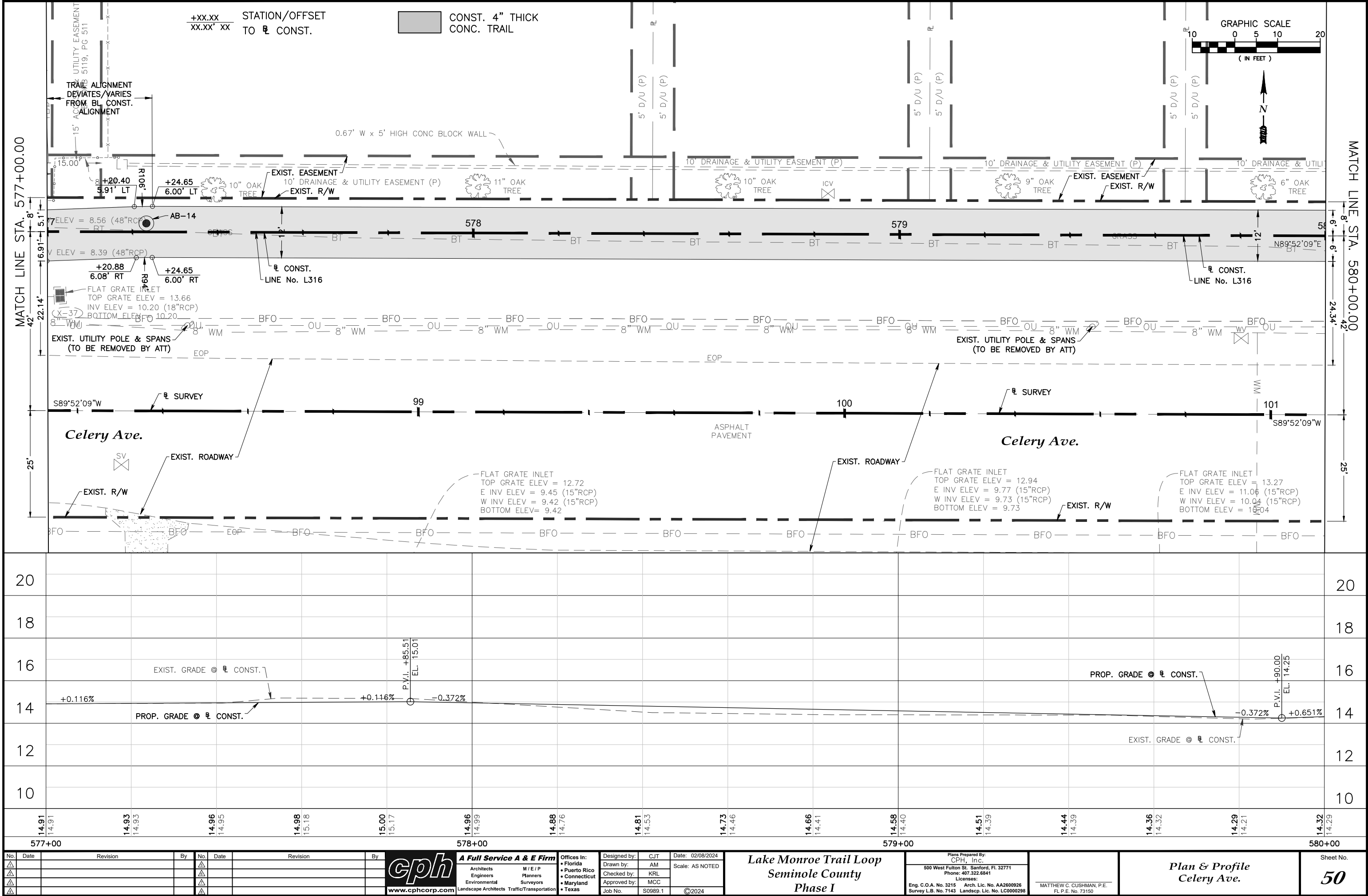
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Plan & Profile
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48





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Plan & Profile
Celery Ave.

Sheet No.
50

MATCH LINE STA. 580+00.00

25'

20

18

16

14

12

10



580+00				581+00				582+00				583+00			
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2				2				2				2			
3				3				3				3			
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+XX.XX
XX.XX' XX

STATION/OFFSET
TO E CONST.

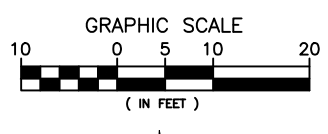
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XX.XX' XX

STATION/OFFSET
TO E SURVEY

CONST. 4" THICK
CONC. TRAIL

X

EXIST. TREE
TO BE REMOVED



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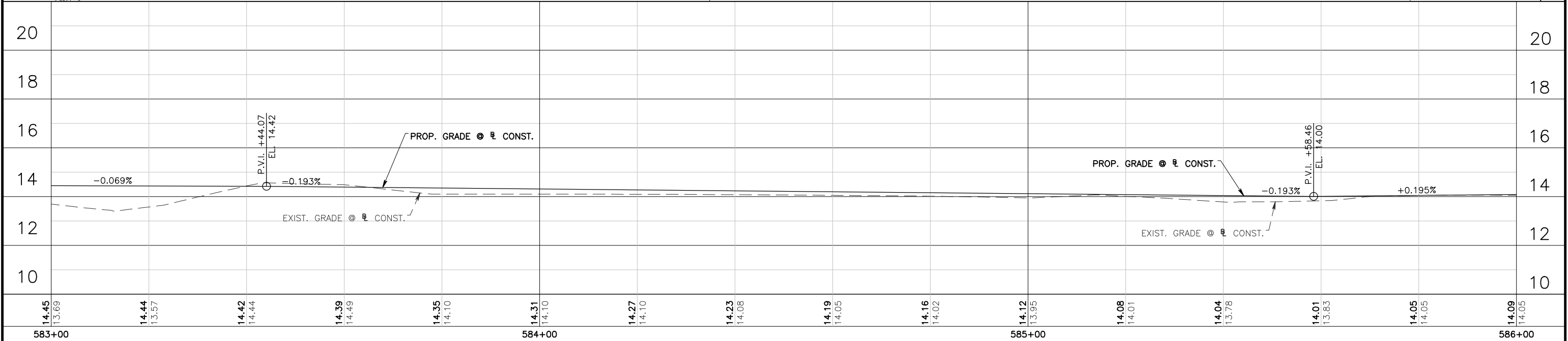
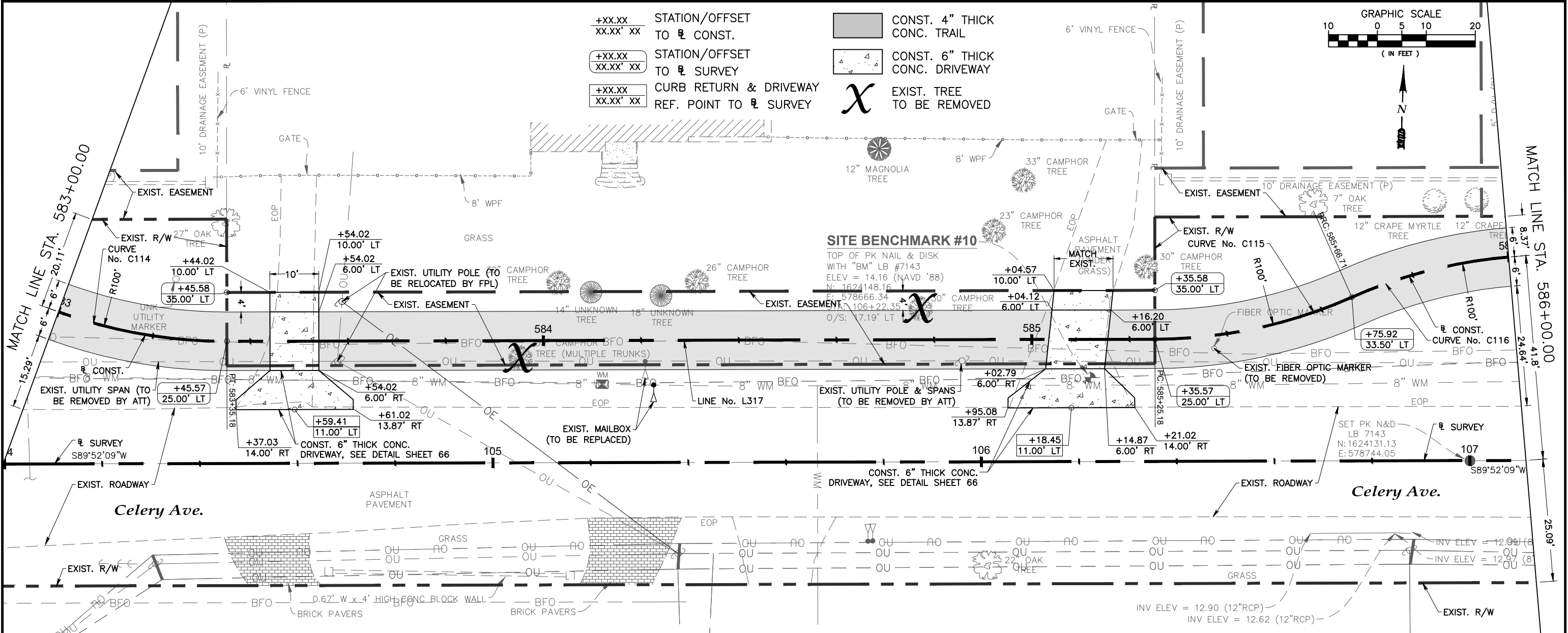
Lake Monroe Trail Loop
Seminole County
Phase I

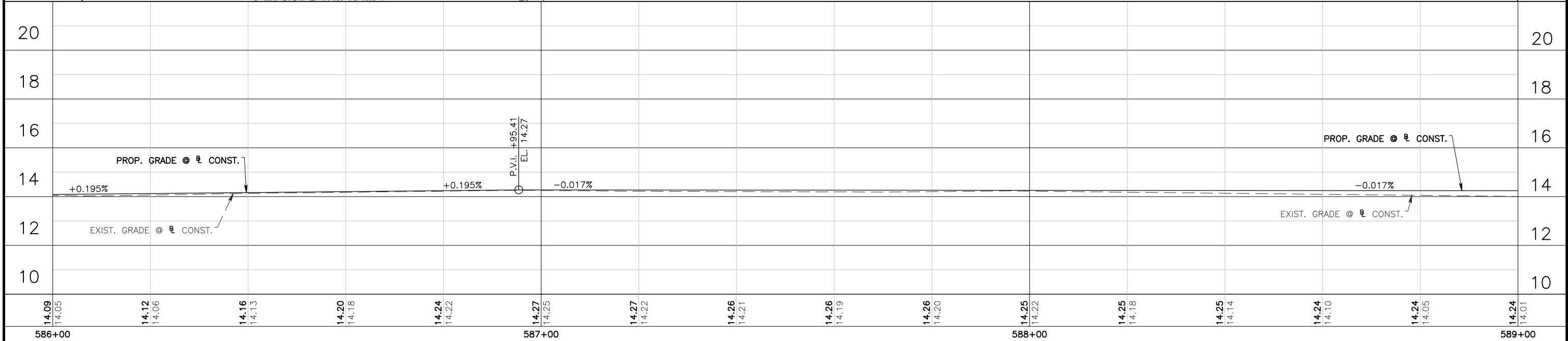
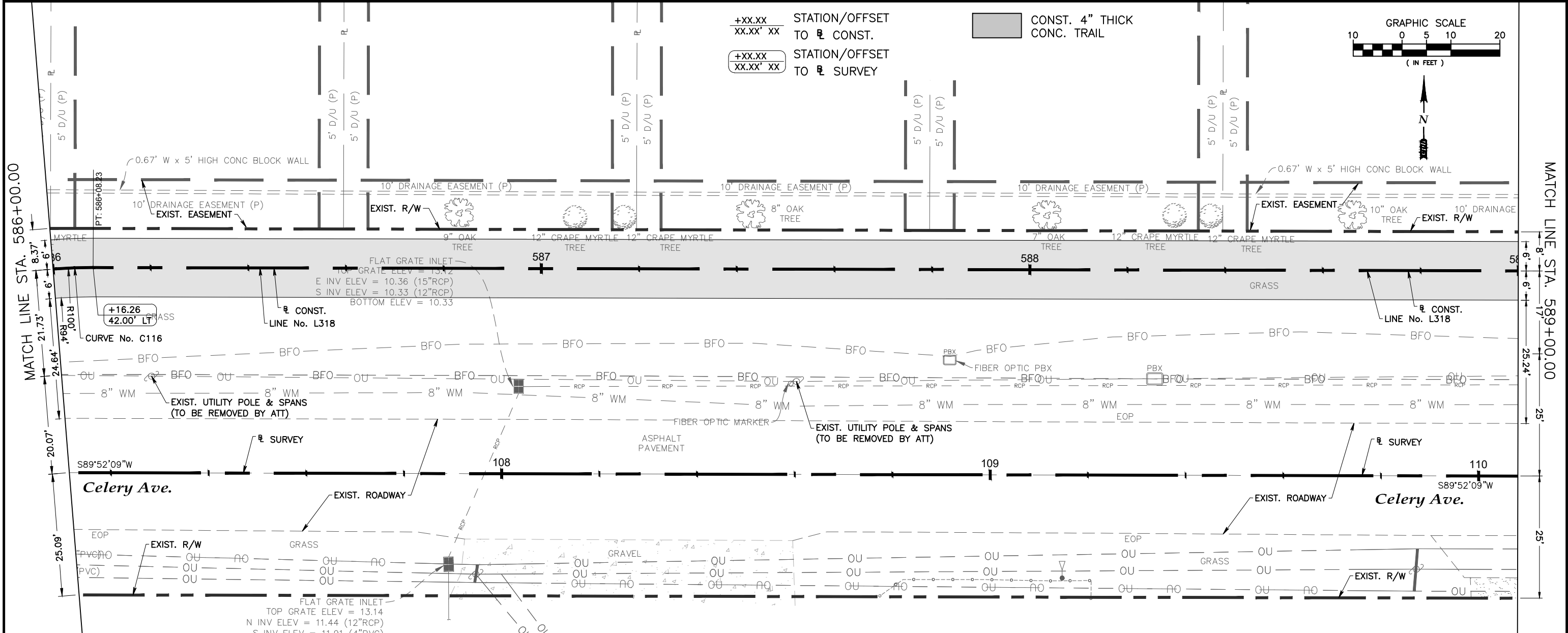
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Plan & Profile
Celery Ave.

Sheet No.
51





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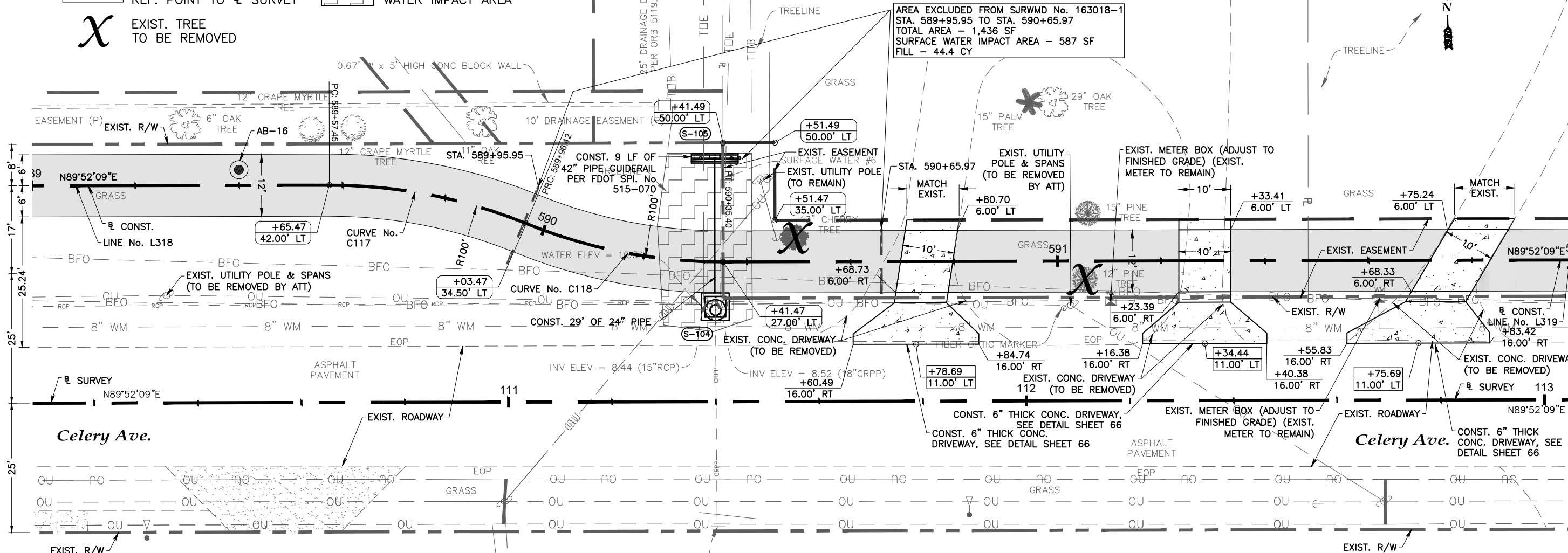
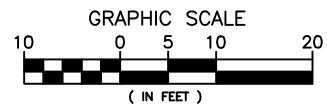
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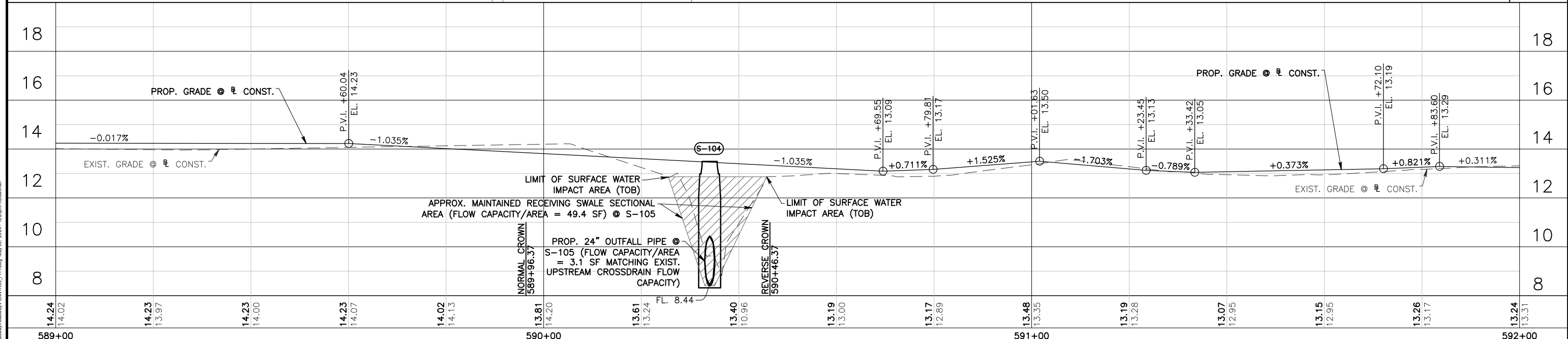
Plan & Profile
Celery Ave.

Sheet No.
53

- +XX.XX STATION/OFFSET
XX.XX' XX TO CONST.
- +XX.XX STATION/OFFSET
XX.XX' XX TO SURVEY
- +XX.XX CURB RETURN & DRIVEWAY
XX.XX' XX REF. POINT TO SURVEY
- X EXIST. TREE
TO BE REMOVED
- CONST. 4" THICK
CONC. TRAIL
- CONST. 6" THICK
CONC. DRIVEWAY
- PROP. SURFACE
WATER IMPACT AREA



MATCH LINE STA. 592+00.00



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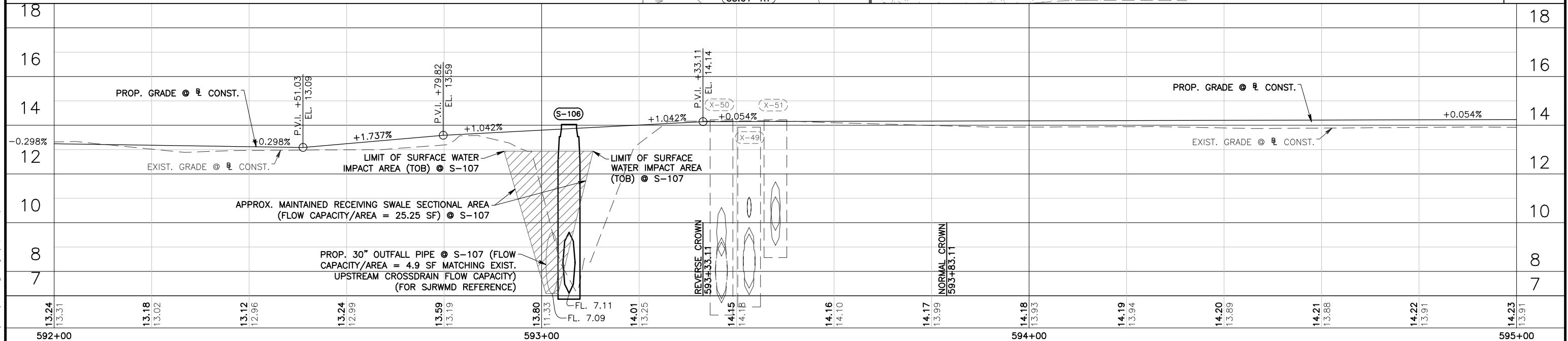
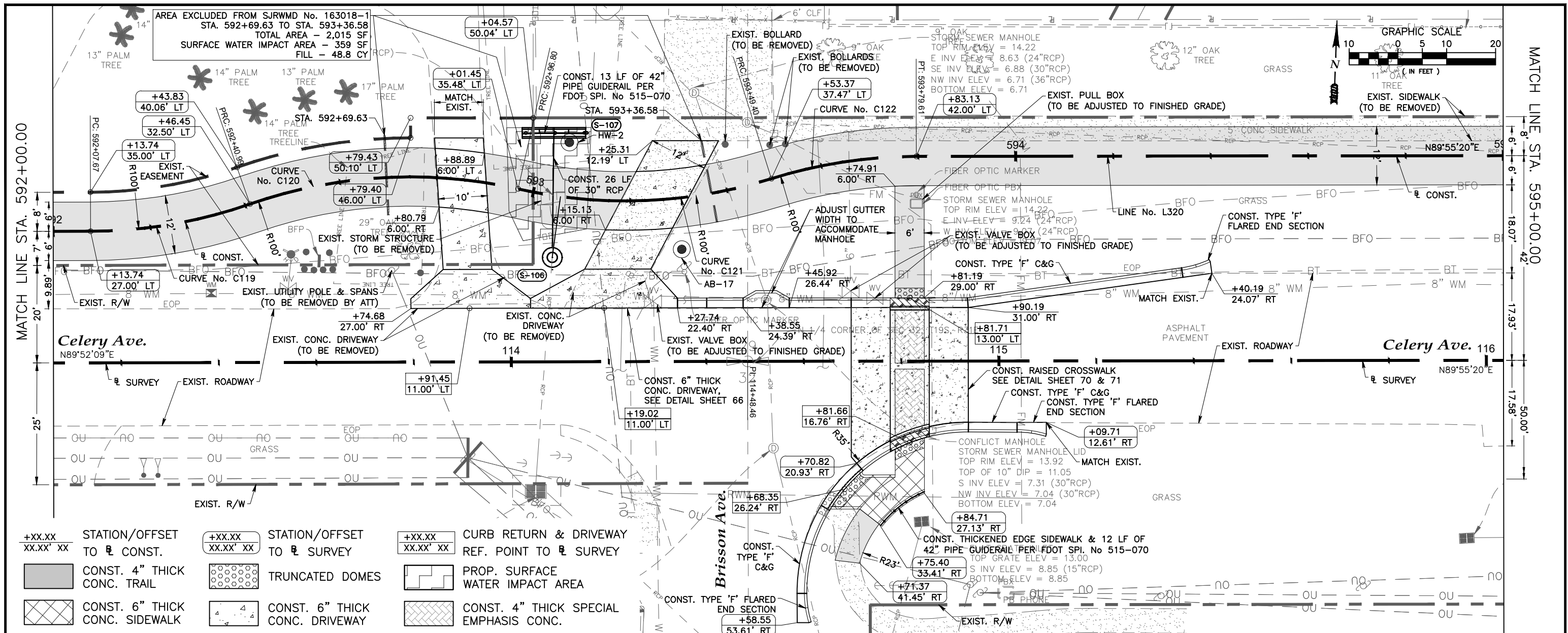
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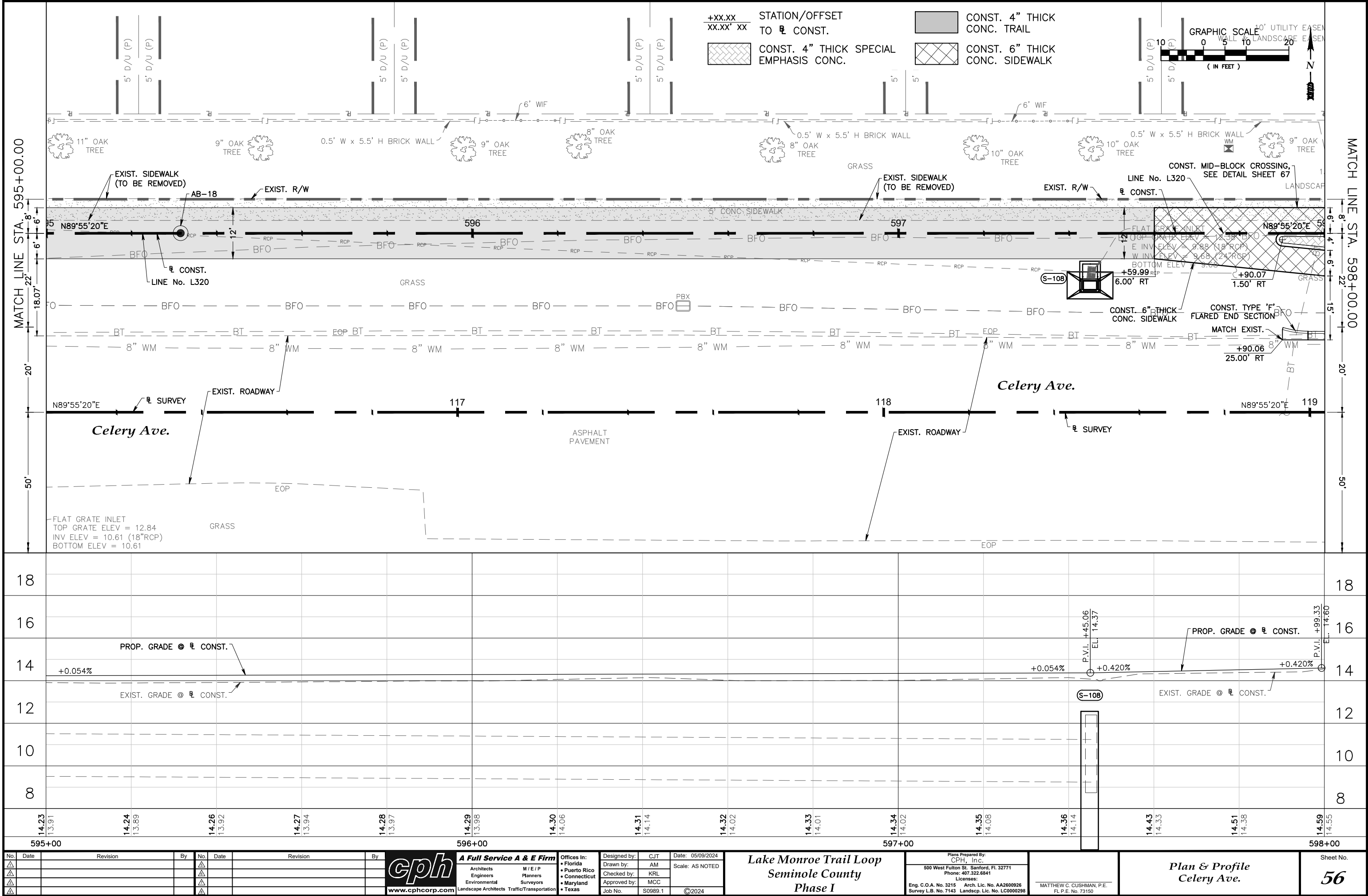
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54



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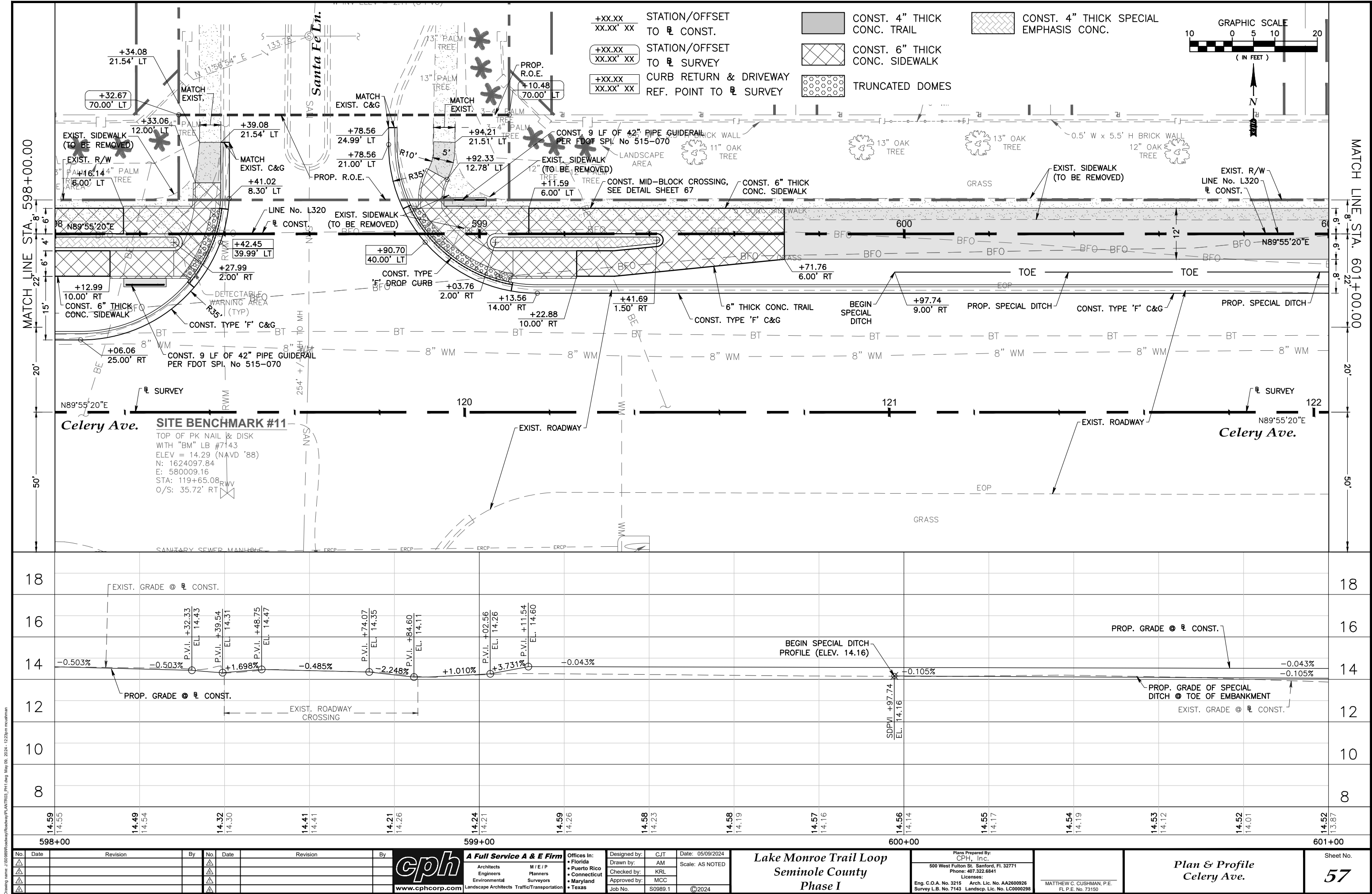
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Seminole County
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Celery Ave.

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56



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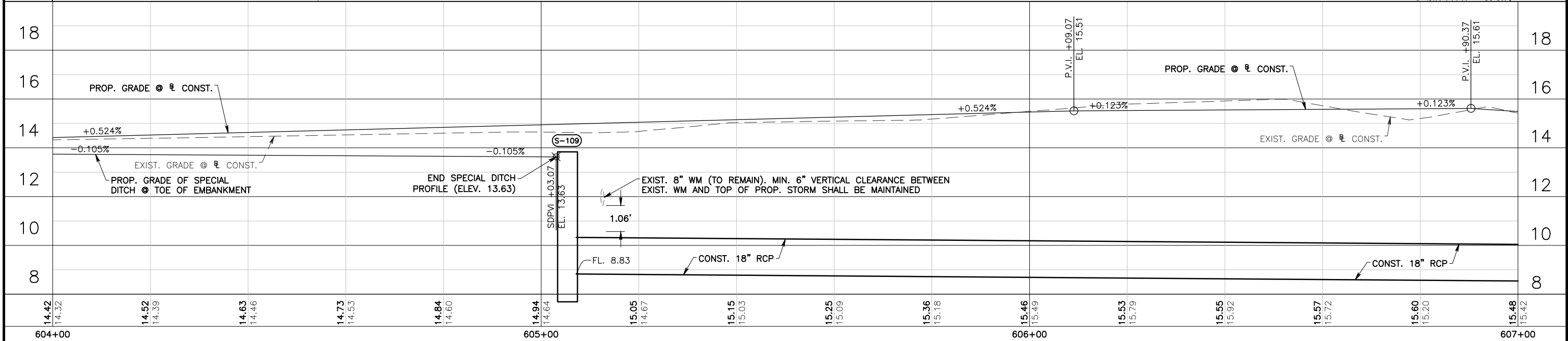
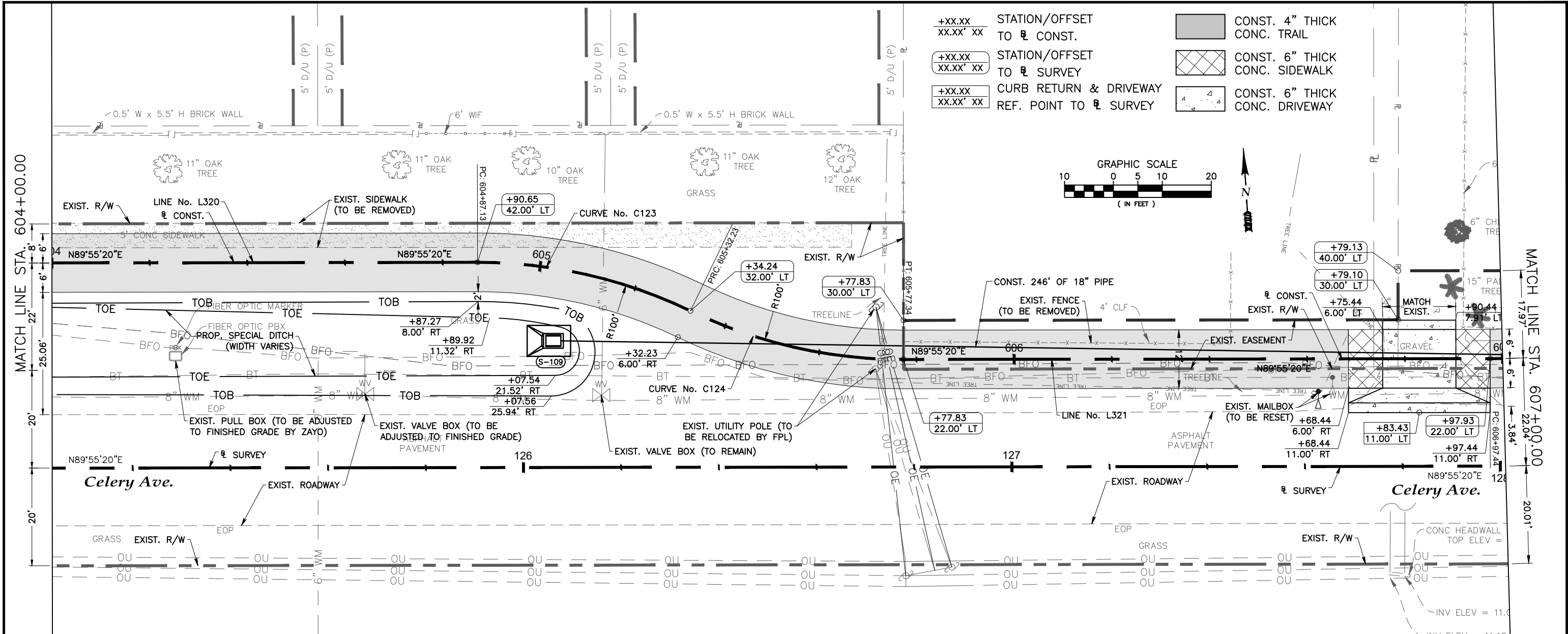
Lake Monroe Trail Loop
Seminole County
Phase I

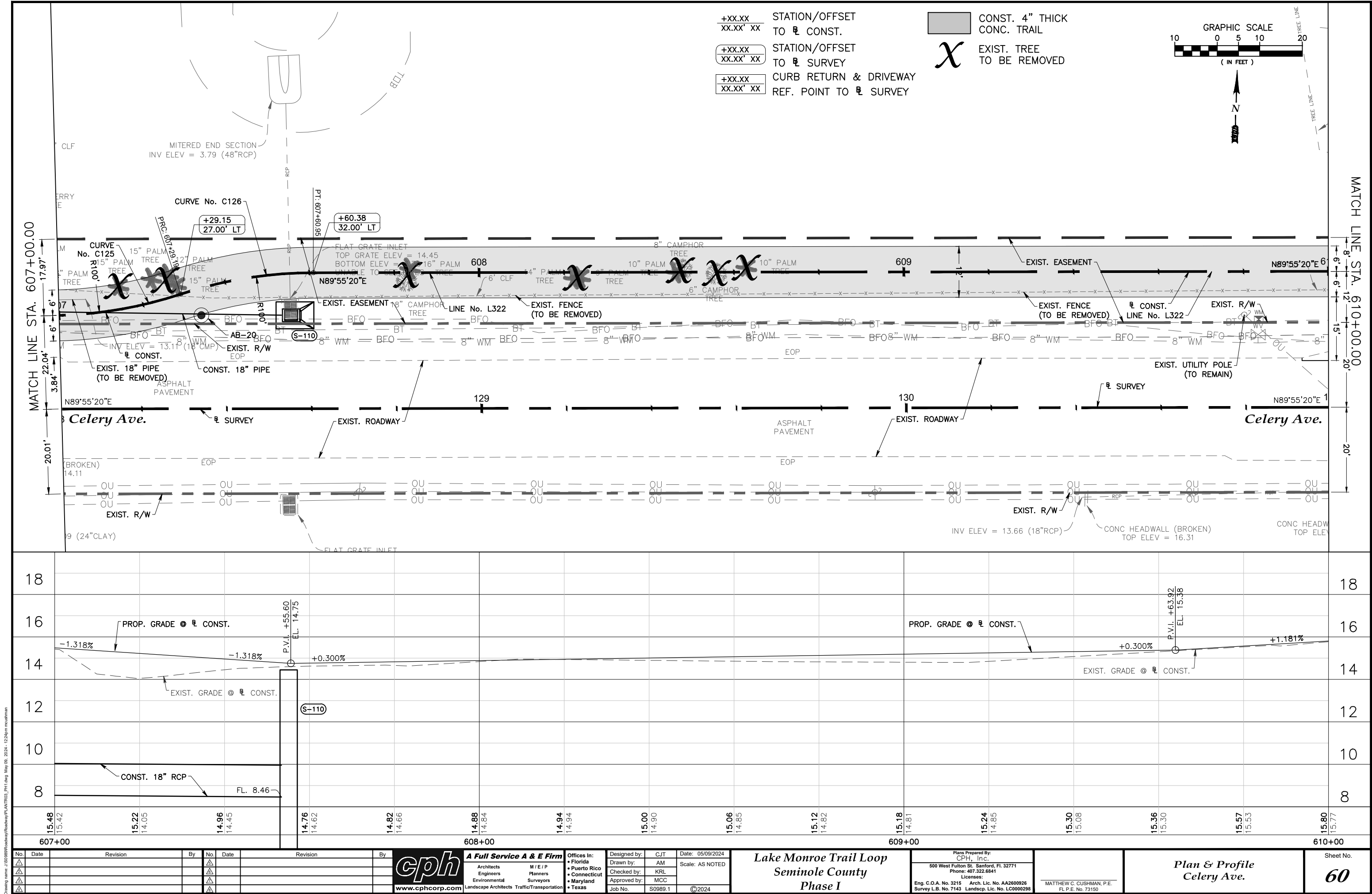
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57





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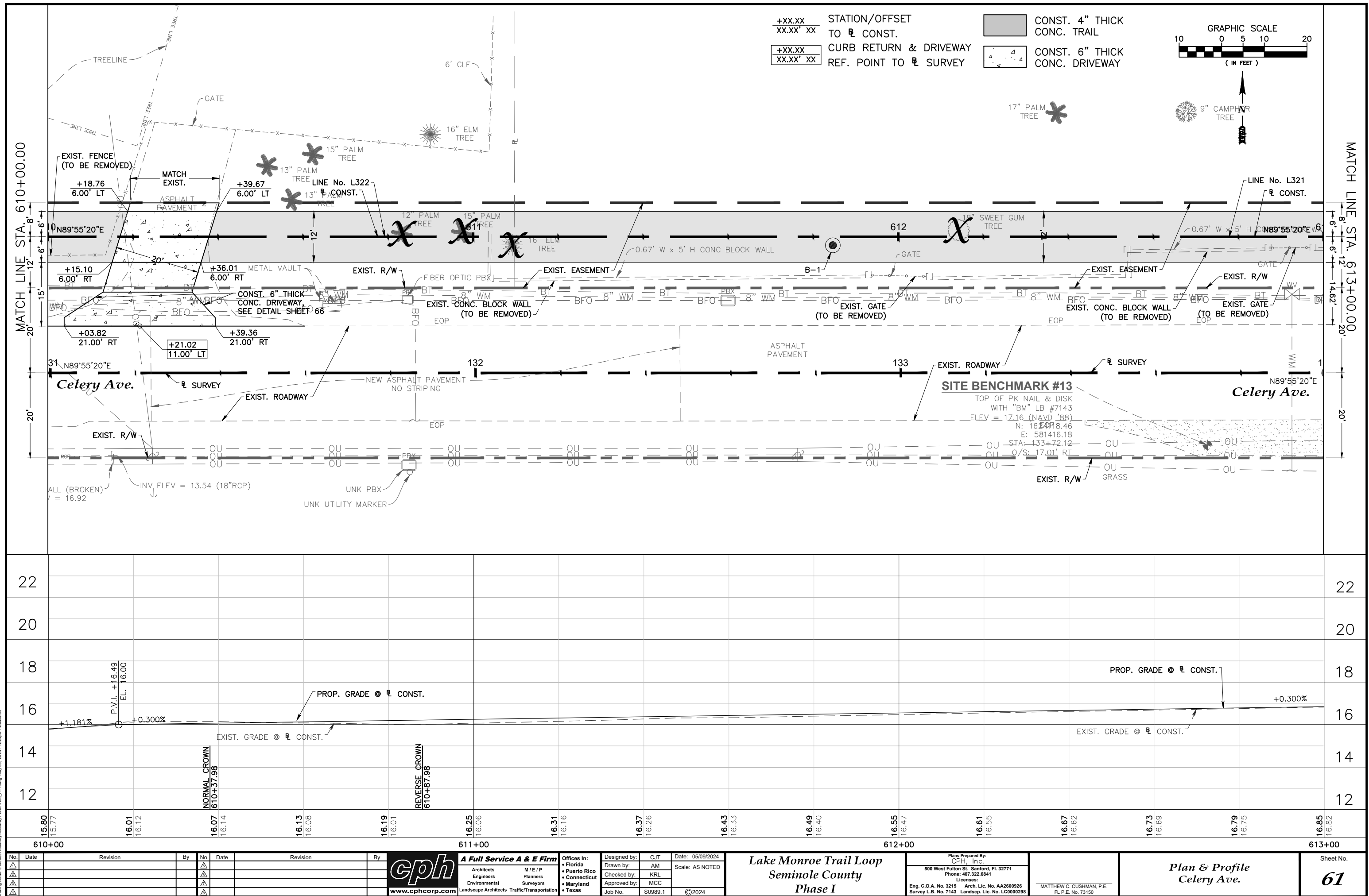
Lake Monroe Trail Loop
Seminole County
Phase I

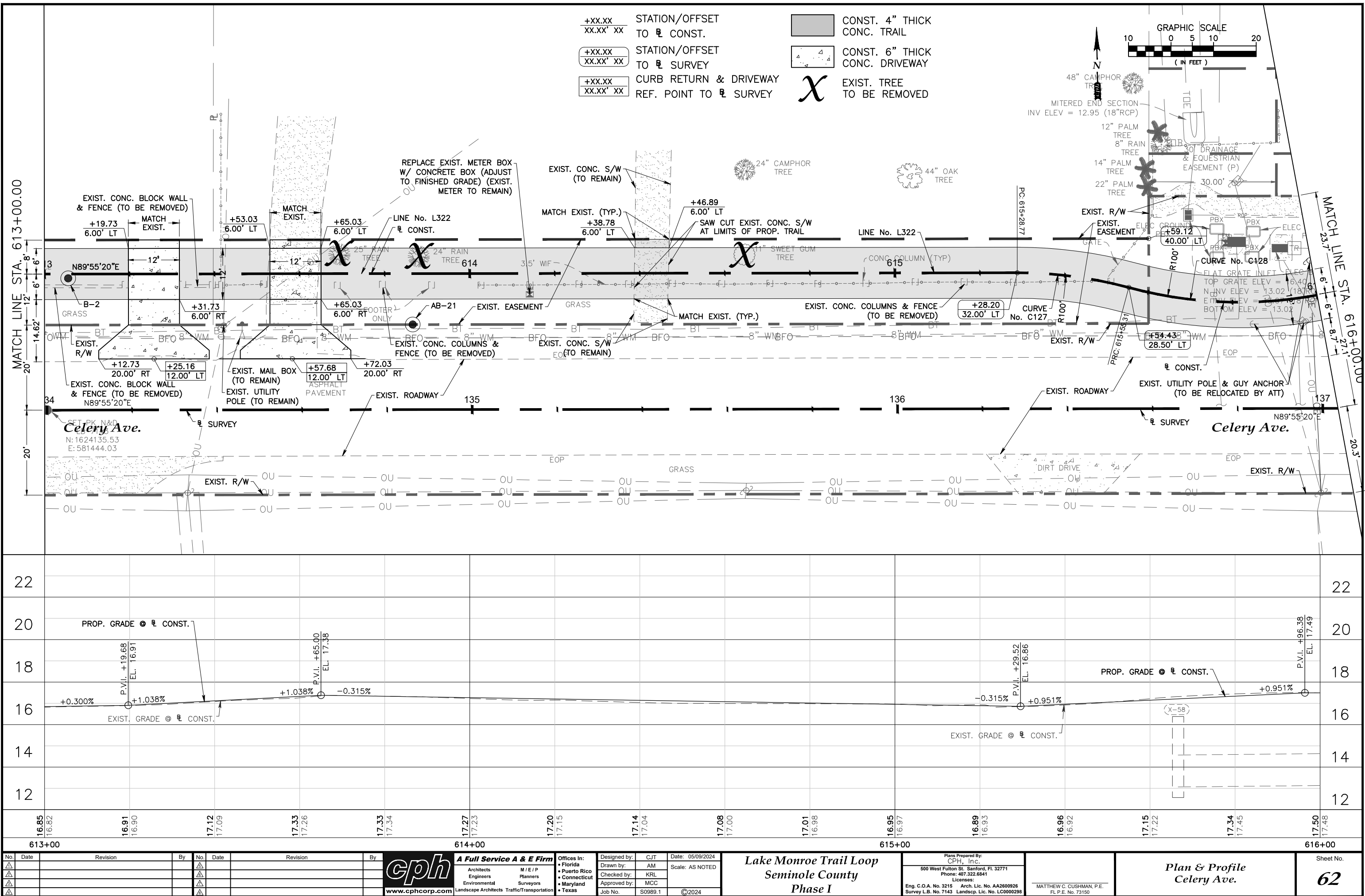
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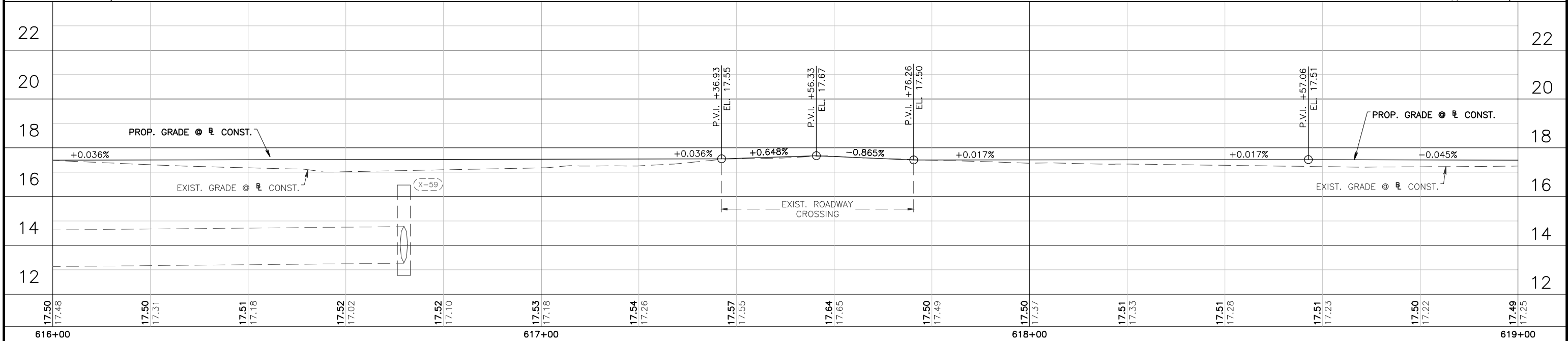
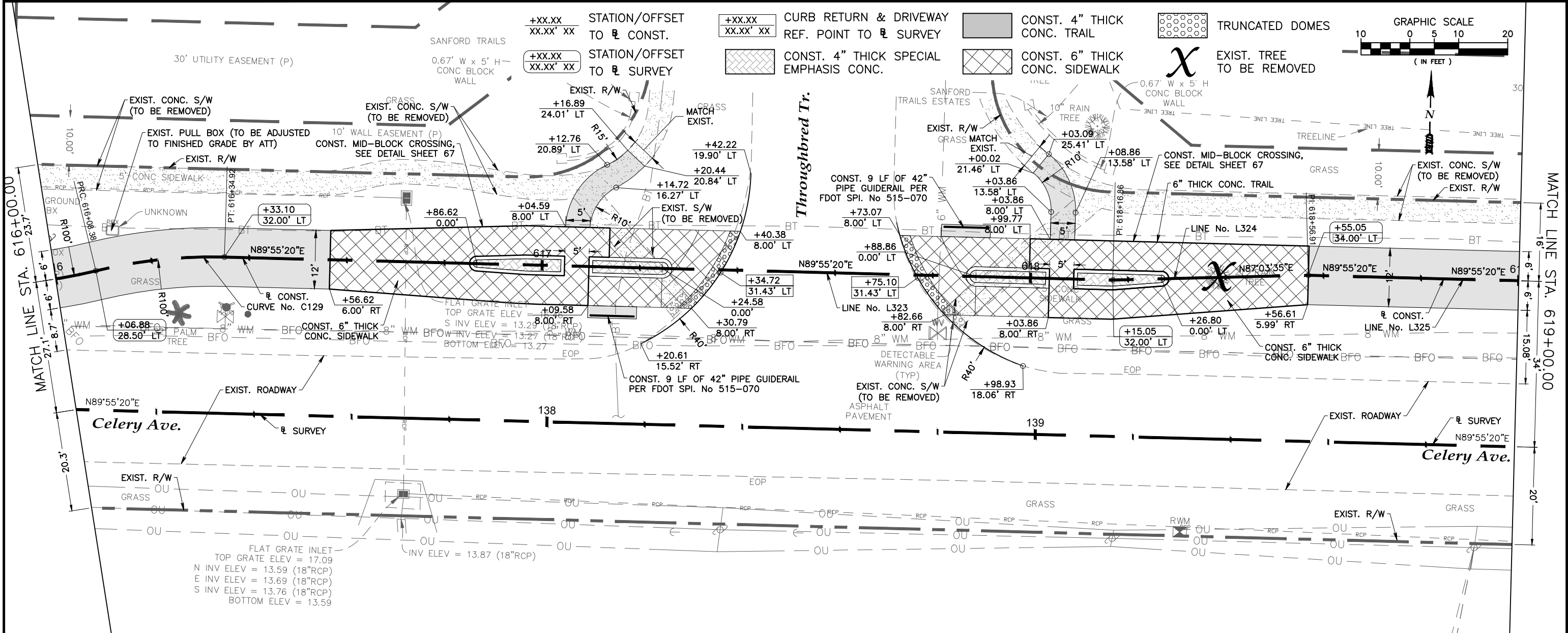
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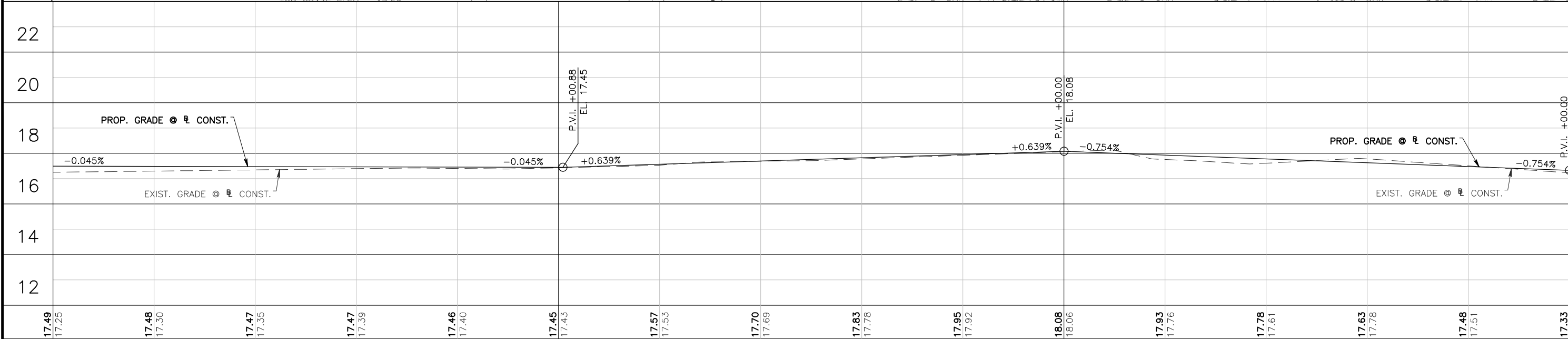
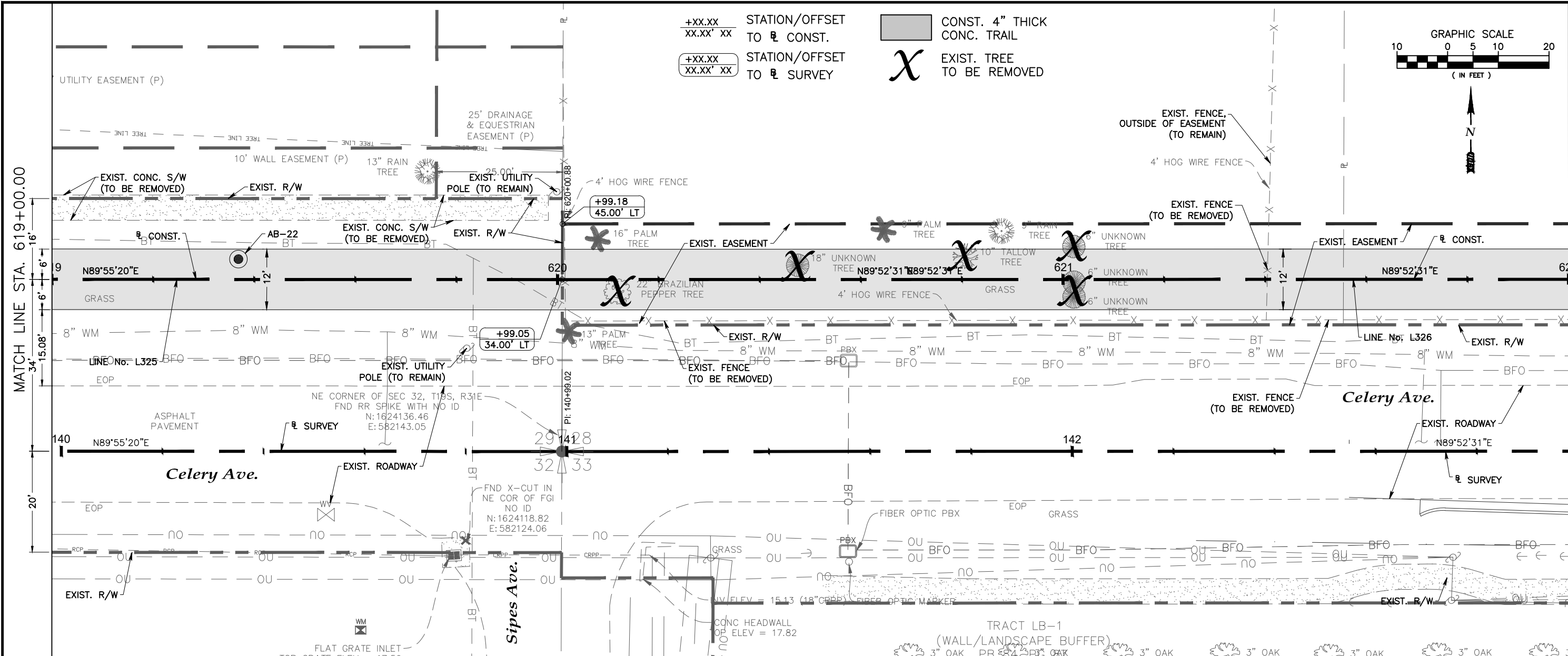
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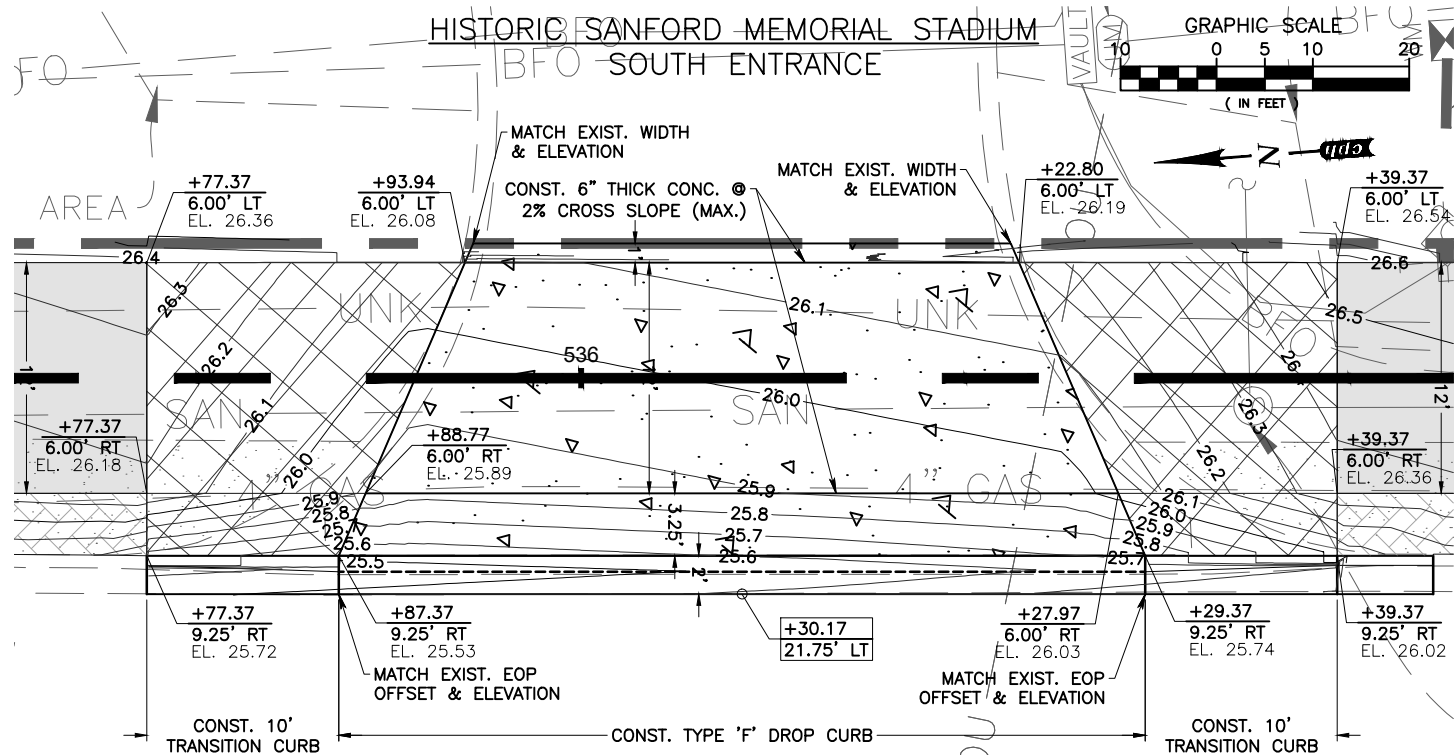
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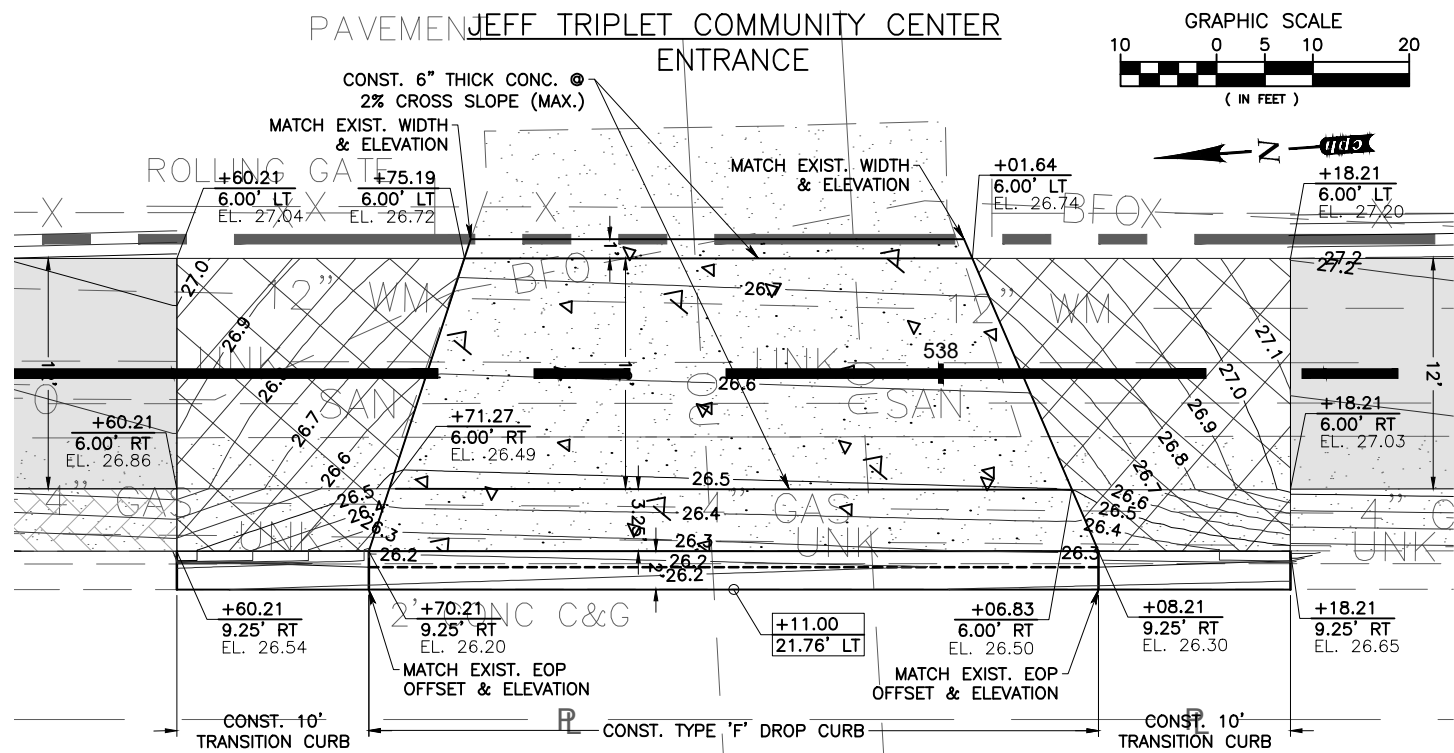






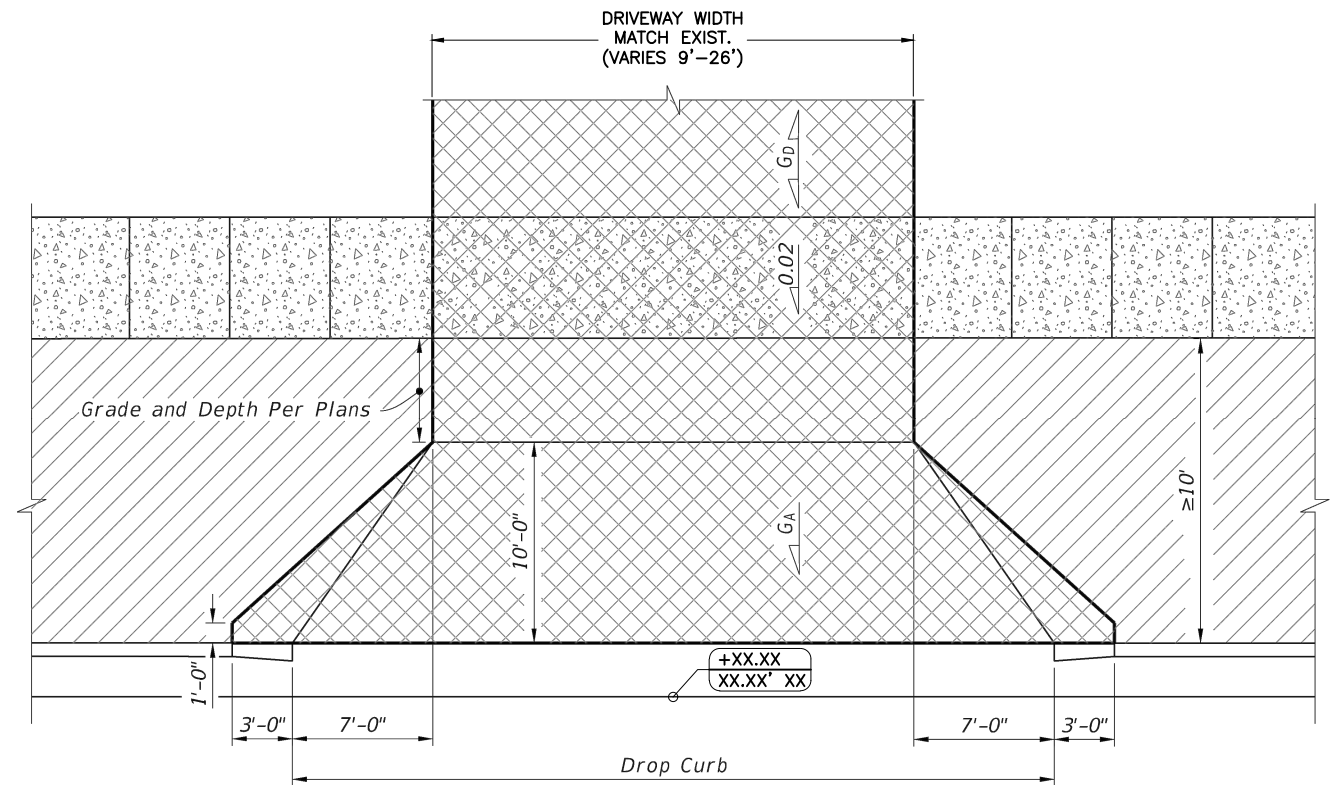


- | | | | |
|---------------------|--|--|---|
| +XX.XX
XX.XX' XX | STATION/OFFSET
TO CONST. | | CONST. 6" THICK
CONC. SIDEWALK |
| +XX.XX
XX.XX' XX | CURB RETURN & DRIVEWAY
REF. POINT TO SURVEY | | CONST. 6" THICK
CONC. DRIVEWAY |
| | CONST. 4" THICK
CONC. TRAIL | | CONST. 4" THICK SPECIAL
EMPHASIS CONC. |



LEGEND:

- | | |
|---------------------|--|
| | Sidewalk |
| | Flared Driveway (6" Thick Concrete) |
| | Sidewalk Thru Driveway (6" Thick Concrete) |
| | Utility Strip |
| +XX.XX
XX.XX' XX | POINT OF REFERENCE
FOR CONST. DRIVEWAY |



WITHOUT SIDEWALK OR UTILITY STRIP ≥ 10' WIDE
PER FDOT SPI 522-003

Drawing name: J:\0966\Roadway\Roadway\DTL\T01_P01.dwg May 09, 2024, 12:25pm mcaulhman

No.	Date	Revision	By	No.	Date	Revision	By
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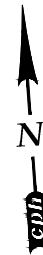
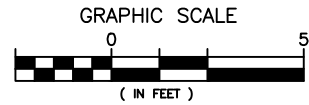
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Seminole County
Phase I

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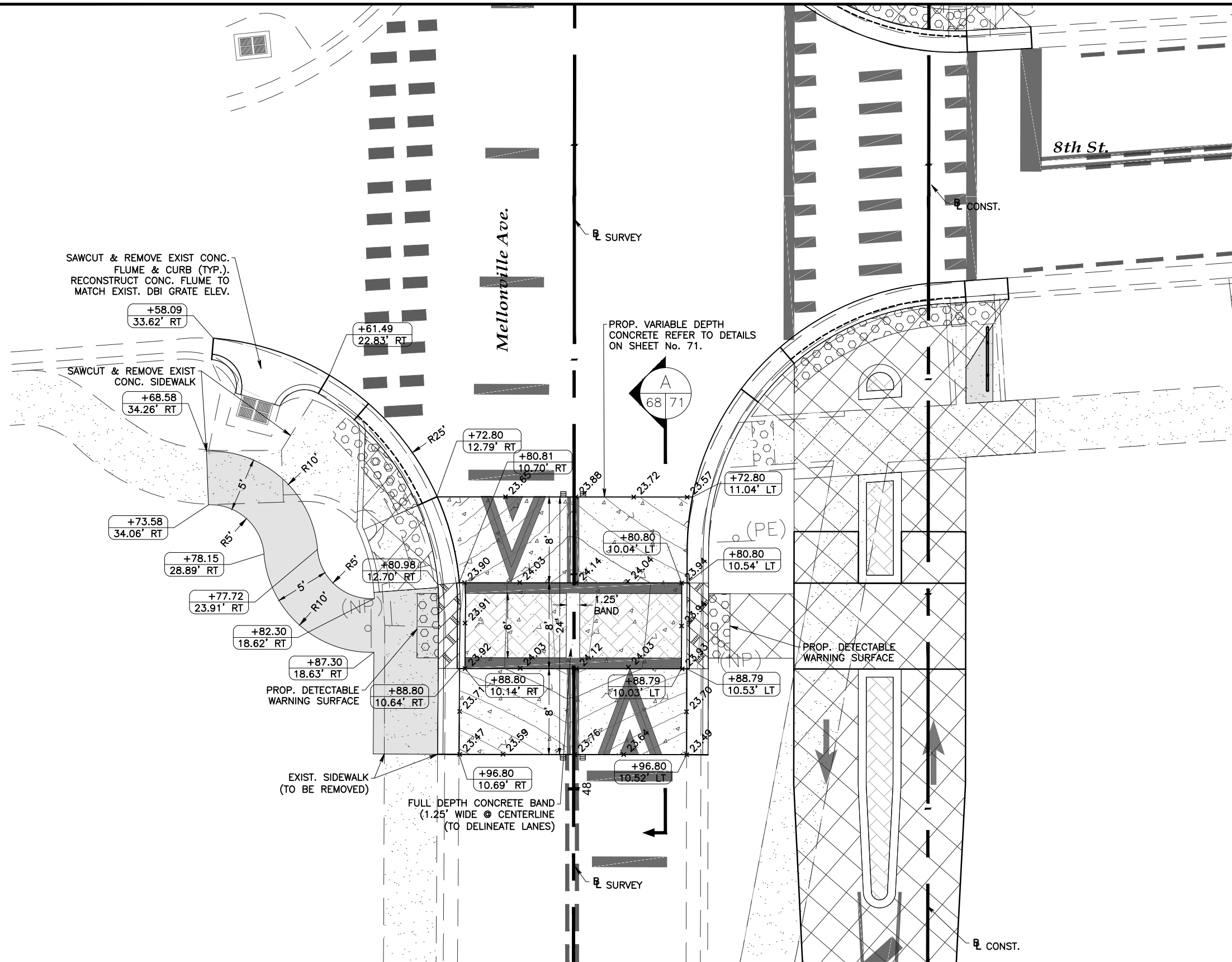
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Driveway Details

Sheet No.
66



- +XX.XX
XX.XX' XX STATION/OFFSET
TO CONST.
- +XX.XX
XX.XX' XX STATION/OFFSET
TO SURVEY
- CONST. 4" THICK SPECIAL
EMPHASIS CONC.
- CONST. 4" THICK
CONC. TRAIL
- CONST. 6" THICK
CONC. SIDEWALK
- TRUNCATED DOMES



RAISED CROSSWALK/
CONCRETE SPEED TABLE (CST) @ ~ STA. 527+62.96

*** CONTRACTOR NOTE ***
RAISED CROSSWALK/CST IS TO BE CONSTRUCTED WITH VARYING CROSS SLOPES (PERPENDICULAR TO ROADWAY) AS DETAILED ABOVE. GRADE BREAKS ARE DESIGNED/LOCATED AT EXISTING CROWN LINE & EDGE OF TRAVEL. FORMS SHALL BE INSPECTED BY COUNTY AND/OR COUNTY DESIGNATED REPRESENTATIVE FOR ADA COMPLIANCE PRIOR TO CONCRETE BEING PLACED.

No.	Date	Revision	By	No.	Date	Revision	By
1				1			
2				2			
3				3			
4				4			
5				5			



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

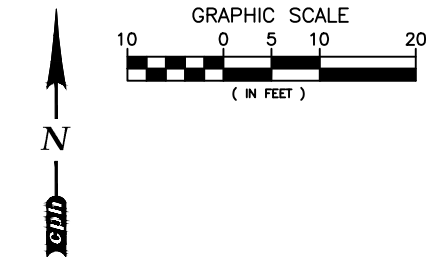
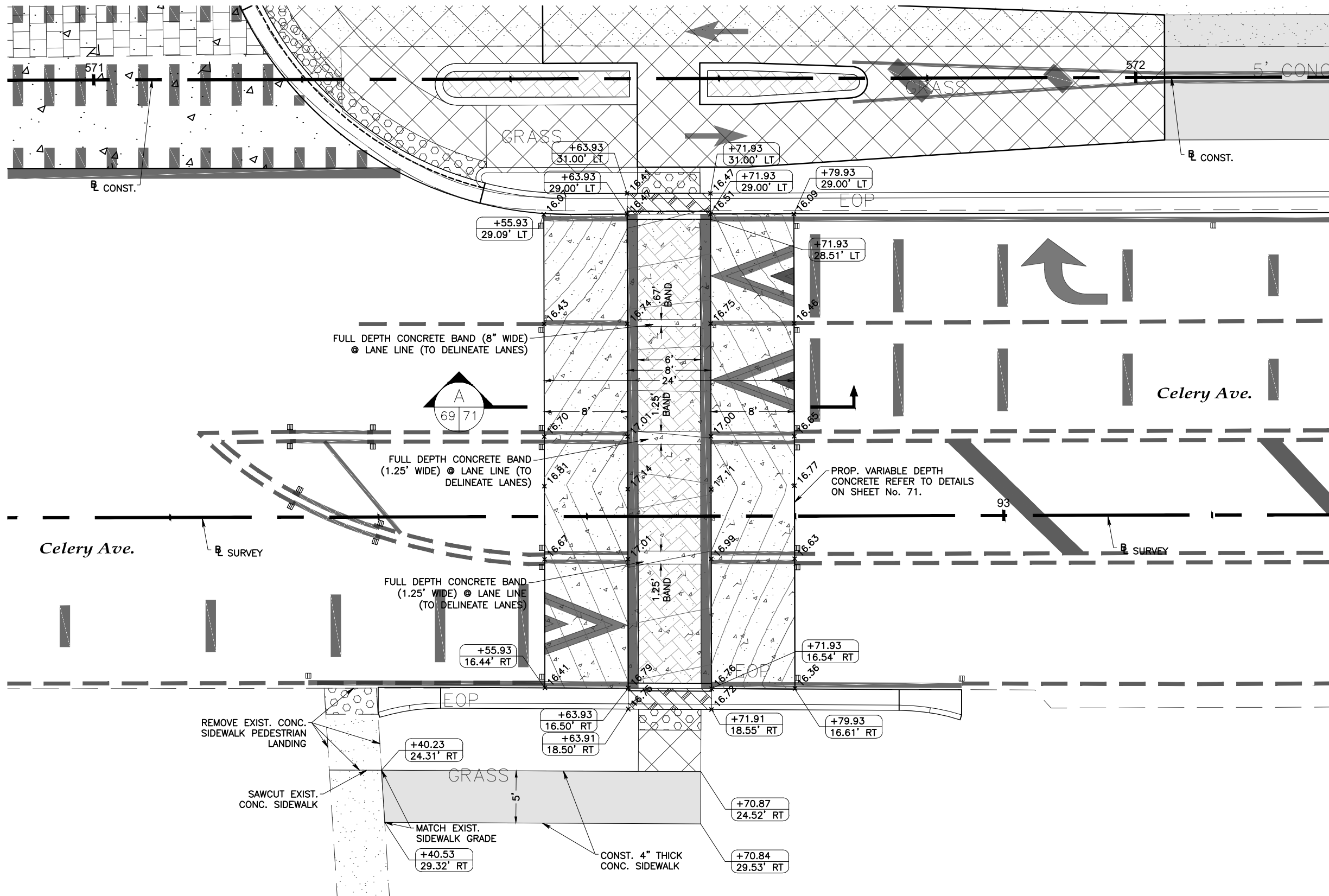
Lake Monroe Trail Loop
Seminole County
Phase I

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

Raised Crosswalk
Details

Sheet No.
68



- +XX.XX
XX.XX' XX
- STATION/OFFSET
TO ∇ CONST.
- +XX.XX
XX.XX' XX
- STATION/OFFSET
TO ∇ SURVEY
- CONST. 4" THICK SPECIAL
EMPHASIS CONC.
- CONST. 4" THICK
CONC. TRAIL
- CONST. 6" THICK
CONC. SIDEWALK
- TRUNCATED DOMES

RAISED CROSSWALK/
CONCRETE SPEED TABLE (CST) ~ STA. 571+55.16

*** CONTRACTOR NOTE ***
RAISED CROSSWALK/CST IS TO BE CONSTRUCTED WITH VARYING CROSS SLOPES (PERPENDICULAR TO ROADWAY) AS DETAILED ABOVE. GRADE BREAKS ARE DESIGNED/LOCATED AT EXISTING CROWN LINE & EDGE OF TRAVEL. FORMS SHALL BE INSPECTED BY COUNTY AND/OR COUNTY DESIGNATED REPRESENTATIVE FOR ADA COMPLIANCE PRIOR TO CONCRETE BEING PLACED.

No.	Date	Revision	By	No.	Date	Revision	By
1				2			
2				3			
3				4			
4				5			



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Drawn by: AM Scale: AS NOTED
Checked by: KRL
Approved by: MCC
Job No. S0989.1 ©2024

Lake Monroe Trail Loop
Seminole County
Phase I

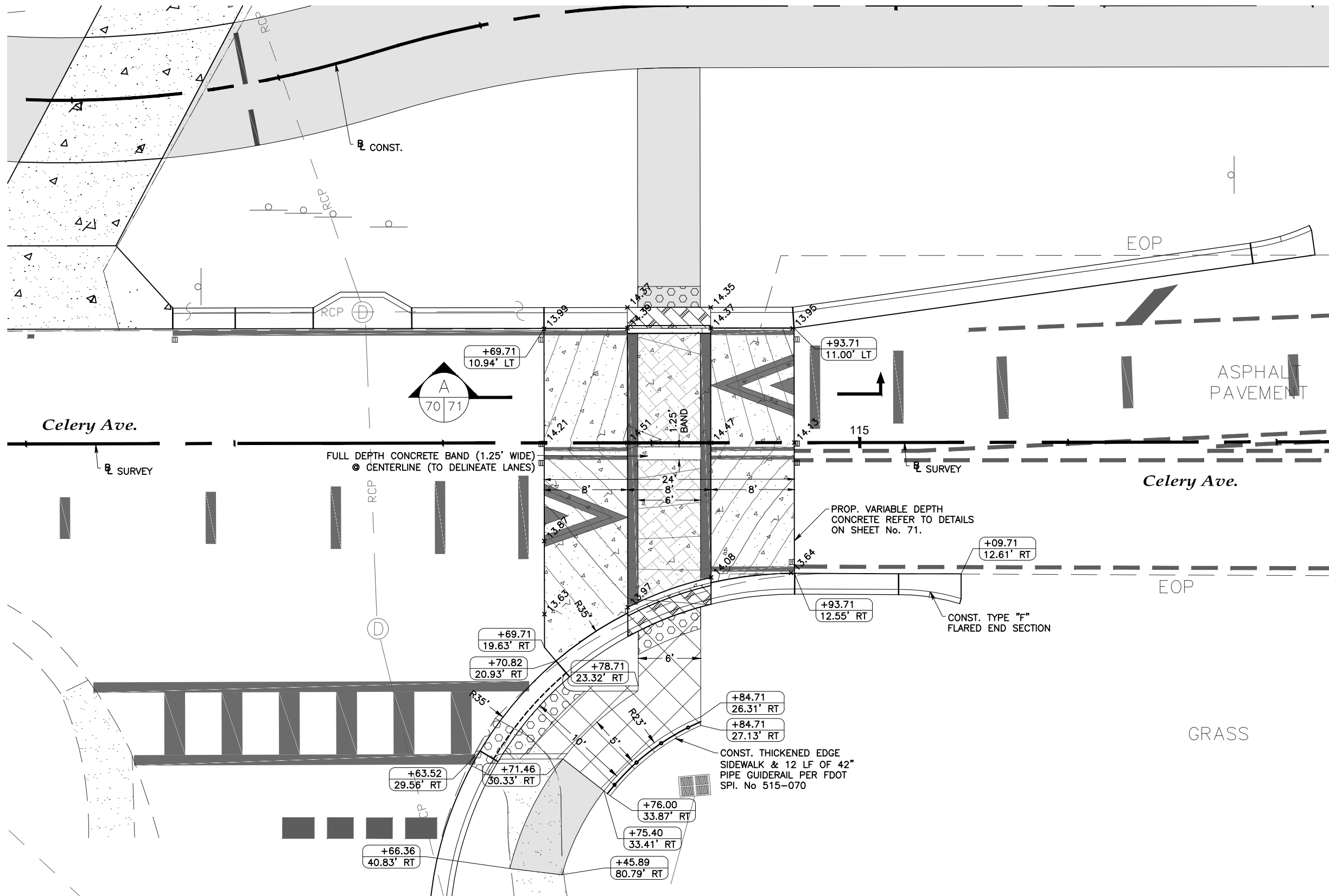
Plans Prepared By:
CPH, Inc.
500 West Fulton St. Sanford, FL 32771
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MATTHEW C. CUSHMAN, P.E.
FL P.E. No. 73150

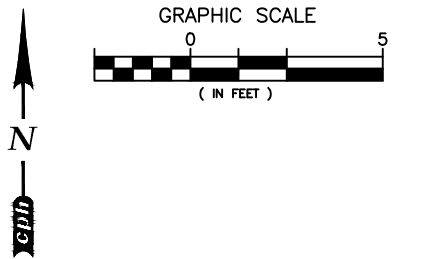
Raised Crosswalk
Details

Sheet No.
69

Drawing name: J:\056666\Roadway\Roadway\DTL\RD02_Phl.dwg May 09, 2024 - 12:26pm mcahman



- +XX.XX
XX.XX' XX
- STATION/OFFSET
TO ∇ CONST.
- +XX.XX
XX.XX' XX
- STATION/OFFSET
TO ∇ SURVEY
- CONST. 4" THICK SPECIAL
EMPHASIS CONC.
- CONST. 4" THICK
CONC. TRAIL
- CONST. 6" THICK
CONC. SIDEWALK
- TRUNCATED DOMES



**RAISED CROSSWALK/
CONCRETE SPEED TABLE (CST) ~ STA. 593+81.71**

*** CONTRACTOR NOTE ***
RAISED CROSSWALK/CST IS TO BE CONSTRUCTED WITH VARYING CROSS SLOPES (PERPENDICULAR TO ROADWAY) AS DETAILED ABOVE. GRADE BREAKS ARE DESIGNED/LOCATED AT EXISTING CROWN LINE & EDGE OF TRAVEL. FORMS SHALL BE INSPECTED BY COUNTY AND/OR COUNTY DESIGNATED REPRESENTATIVE FOR ADA COMPLIANCE PRIOR TO CONCRETE BEING PLACED.

No.	Date	Revision	By	No.	Date	Revision	By
1				2			
2				3			
3				4			
4				5			



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Designed by: CJT Date: 06/09/2024
Drawn by: AM Scale: AS NOTED
Checked by: KRL
Approved by: MCC
Job No. S0989.1 ©2024

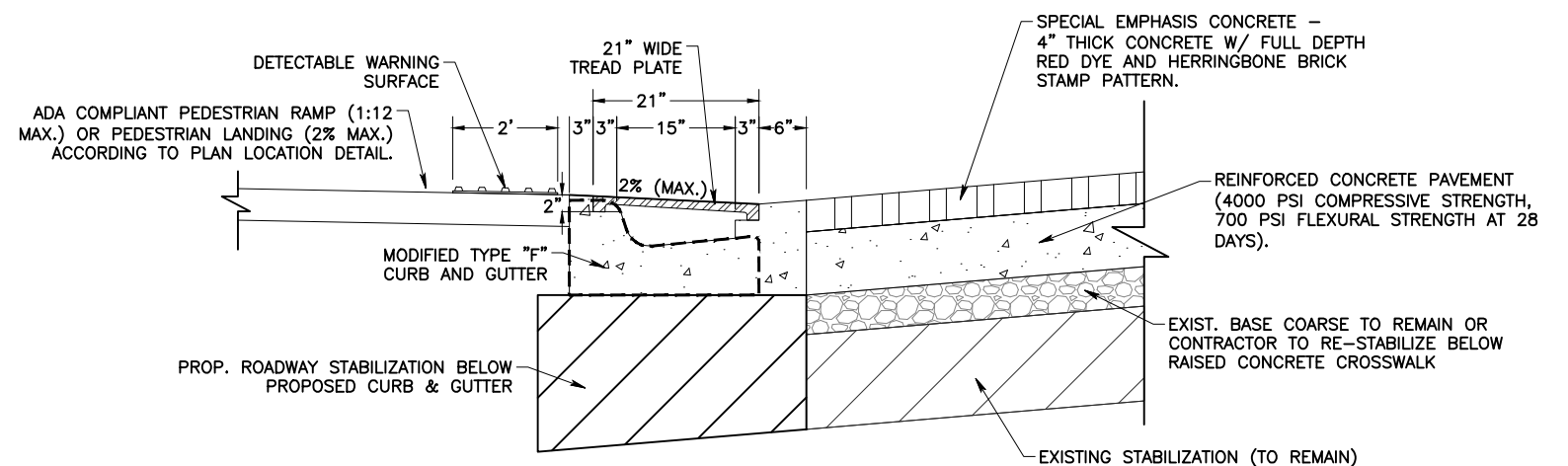
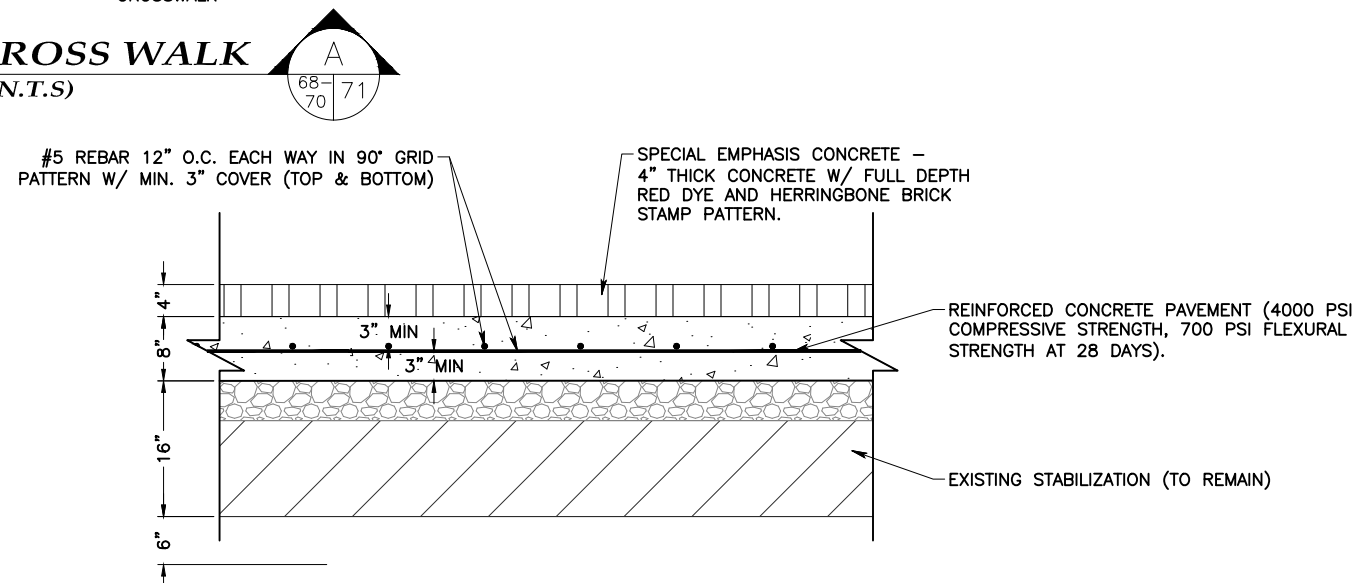
**Lake Monroe Trail Loop
Seminole County
Phase I**

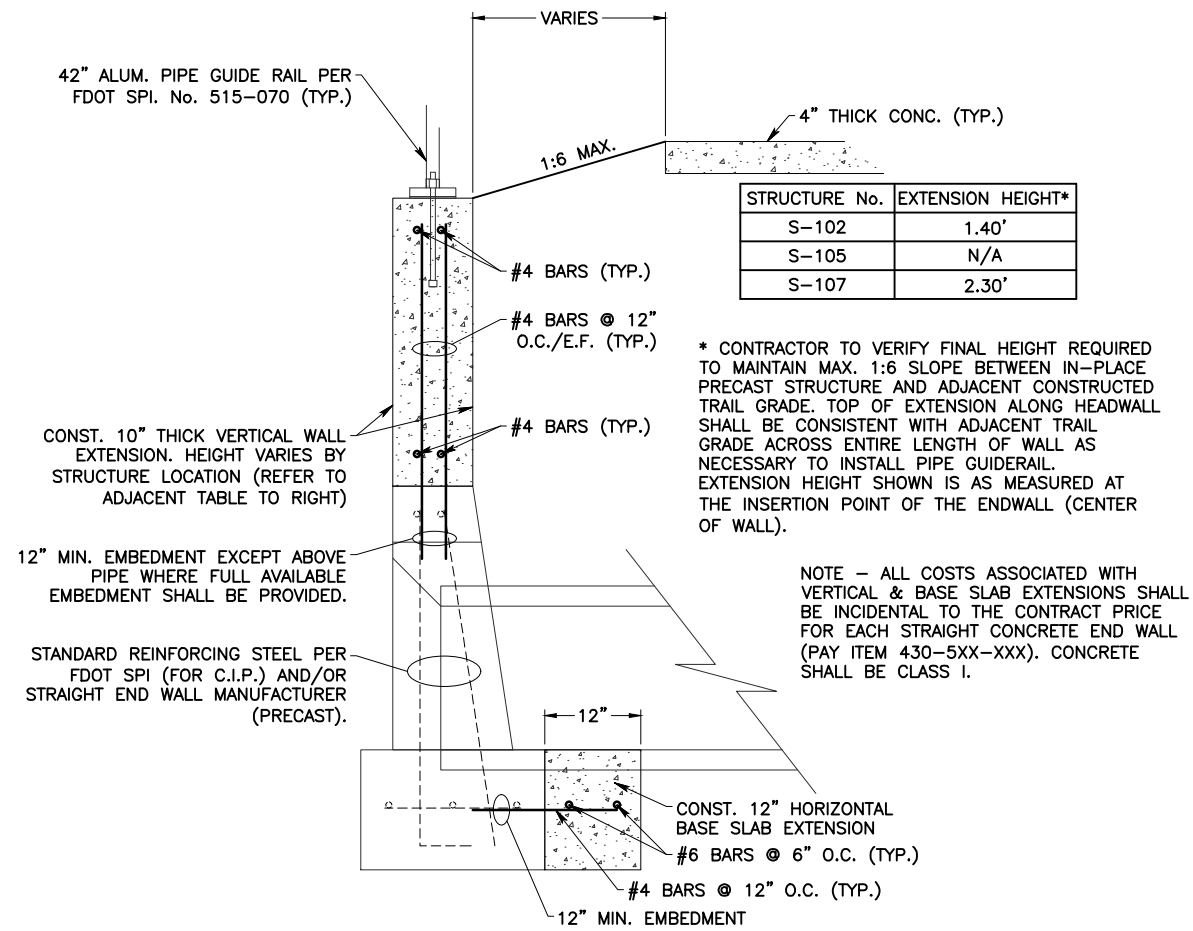
Plans Prepared By:
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500 West Fulton St. Sanford, FL 32771
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MATTHEW C. CUSHMAN, P.E.
FL P.E. No. 73150

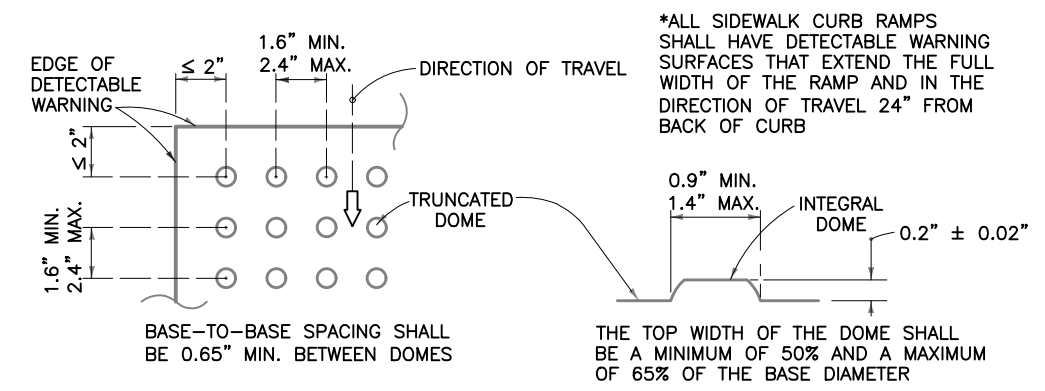
**Raised Crosswalk
Details**

Sheet No.
70



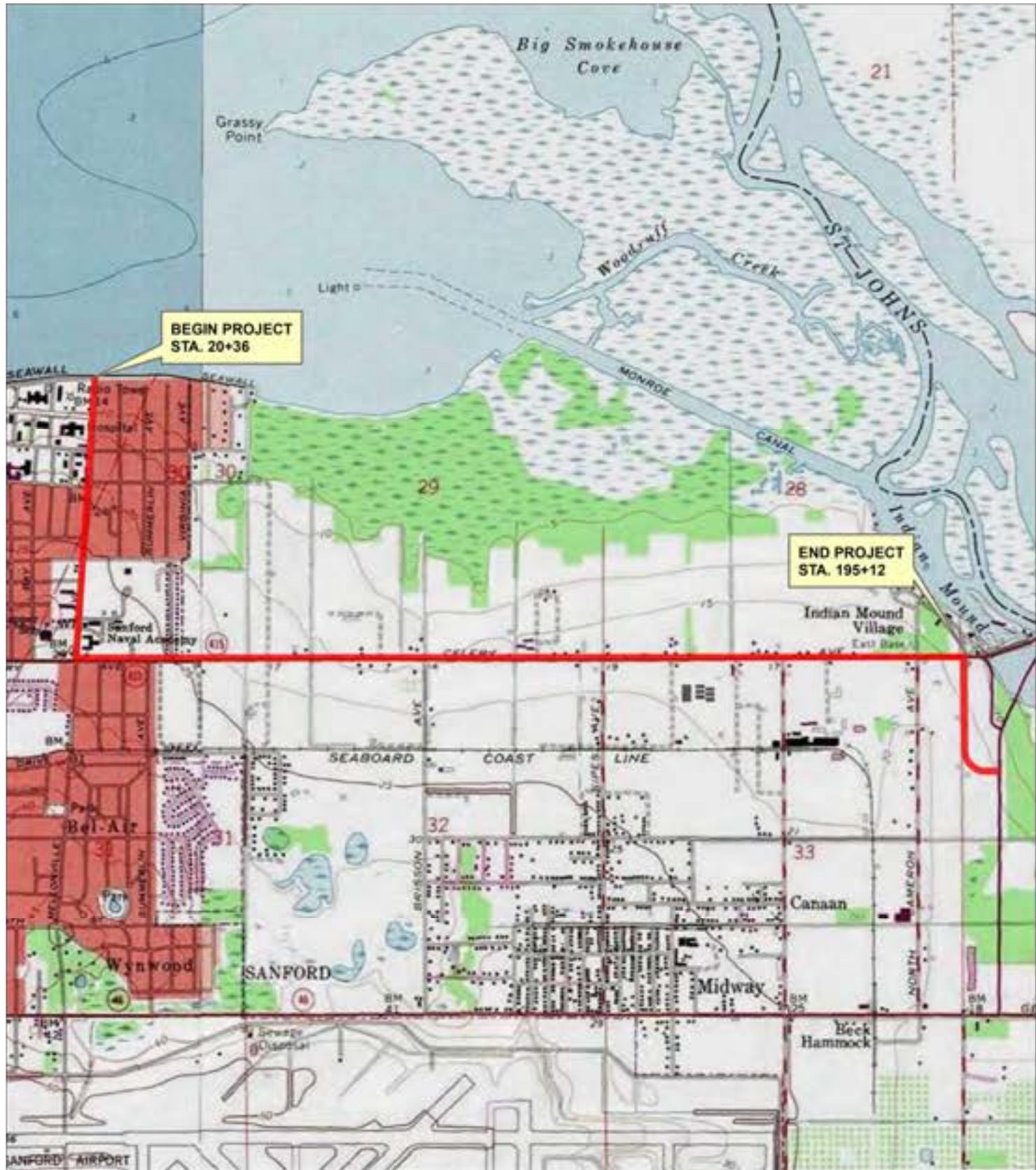


**END WALL VERTICAL (& BASE SLAB)
EXTENSION DETAIL**
(N.T.S)



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

Drawing name: J:\50569\Roadway\Roadway\OTL TR01_P41.dwg May 09, 2024 12:26pm mcushman



USGS Osteen, FL and Sanford, FL. Quadrangle Maps
Dated: 1980 and 1988



- NRCs Soil Survey of Seminole County, FL
Seminole County Map Unit Legend
- 3 - Arents, 0 to 5 percent slopes
 - 9 - Basinger and Delray fine sands
 - 13 - EauGallie and Immokalee fine sands
 - 15 - Felda and Manatee mucky fine sands, depressional
 - 18 - Malabar fine sand, 0 to 2 percent slopes
 - 20 - Myakka and EauGallie fine sands
 - 25 - Pineda-Pineda, wet, fine sand, 0 to 2 percent slopes
 - 29 - St. Johns and EauGallie fine sands
 - 34 - Urban land, 0 to 2 percent slopes
 - 35 - Wabasso fine sand, 0 to 2 percent slopes

APPROXIMATE PROJECT ALIGNMENT

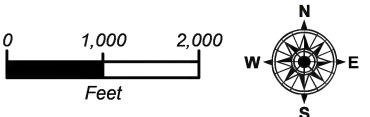


FIGURE 1

REVISIONS				Geotechnical and Environmental Consultants, Inc. 919 Lake Baldwin Lane Orlando, FL 32814 PH (407) 898-1818 FAX (407) 898-1837 Certificate of Authorization No. 0005582	GEC	Seminole County Lake Monroe Trail Loop	USGS QUADRANGLE AND NRCs SOIL SURVEY MAPS	Sheet No. 73
DATE	DISCRIPTION	DATE	DISCRIPTION					
				Designed by: BMM	Date: 10-17-19			
				Drawn by: SKR	Scale: AS NOTED			
				Checked by: CGB				
				Approved by: CGB				
				Job No. 3858G1				



FIGURE 2A

REVISIONS			
DATE	DISCRIPTION	DATE	DISCRIPTION

Geotechnical and Environmental
Consultants, Inc.
919 Lake Baldwin Lane
Orlando, FL 32814
PH (407) 898-1818 FAX (407) 898-1837
Certificate of Authorization No. 0005982



Designed by:	BMM	Date:	7-6-16
Drawn by:	SKR	Scale:	AS NOTED
Checked by:	CGB		
Approved by:	CGB		
Job No.	3858G1		

Seminole County
Lake Monroe Trail Loop

BORING LOCATION PLAN

Sheet No.
74



FIGURE 2B

REVISIONS			
DATE	DISCRIPTION	DATE	DISCRIPTION

Geotechnical and Environmental Consultants, Inc.
919 Lake Baldwin Lane
Orlando, FL 32814
PH (407) 898-1818 FAX (407) 898-1837
Certificate of Authorization No. 0005582



Designed by:	BMM	Date:	7-6-16
Drawn by:	SKR	Scale:	AS NOTED
Checked by:	CGB		
Approved by:	CGB		
Job No.	3858G1		

*Seminole County
Lake Monroe Trail Loop*

BORING LOCATION PLAN

Sheet No.
75



FIGURE 2C

REVISIONS				Geotechnical and Environmental Consultants, Inc. 919 Lake Baldwin Lane Orlando, FL 32814 PH (407) 898-1818 FAX (407) 898-1837 Certificate of Authorization No. 0005882	GEC	Designed by: BMM Drawn by: SKR Checked by: CGB Approved by: CGB Job No. 3858G1	Date: 7-6-16 Scale: AS NOTED	Seminole County Lake Monroe Trail Loop	BORING LOCATION PLAN	Sheet No. 76
DATE	DISCRIPTION	DATE	DISCRIPTION							



FIGURE 2D

REVISIONS			
DATE	DISCRIPTION	DATE	DISCRIPTION

Geotechnical and Environmental
Consultants, Inc.
919 Lake Baldwin Lane
Orlando, FL 32814
PH (407) 898-1818 FAX (407) 898-1837
Certificate of Authorization No. 0005982

GEC

Designed by:	BMM
Drawn by:	SKR
Checked by:	CGB
Approved by:	CGB
Job No.	3858G1

Date:	7-6-16
Scale:	AS NOTED

Seminole County
Lake Monroe Trail Loop

BORING LOCATION PLAN

Sheet No.

77



FIGURE 2E

REVISIONS				Geotechnical and Environmental Consultants, Inc. 919 Lake Baldwin Lane Orlando, FL 32814 PH (407) 898-1818 FAX (407) 898-1837 Certificate of Authorization No. 00005862	GEC	Designed by:	BMM	Date: 7-6-16	<i>Seminole County</i> <i>Lake Monroe Trail Loop</i>	BORING LOCATION PLAN	Sheet No. 78
DATE	DISCRIPTION	DATE	DISCRIPTION			Drawn by:	SKR	Scale: AS NOTED			
						Checked by:	CGB				
						Approved by:	CGB				
						Job No.	3858G1				



REVISIONS			
DATE	DISCRIPTION	DATE	DISCRIPTION

Geotechnical and Environmental
Consultants, Inc.
919 Lake Baldwin Lane
Orlando, FL 32814
PH (407) 898-1818 FAX (407) 898-1837
Certificate of Authorization No. 0005982

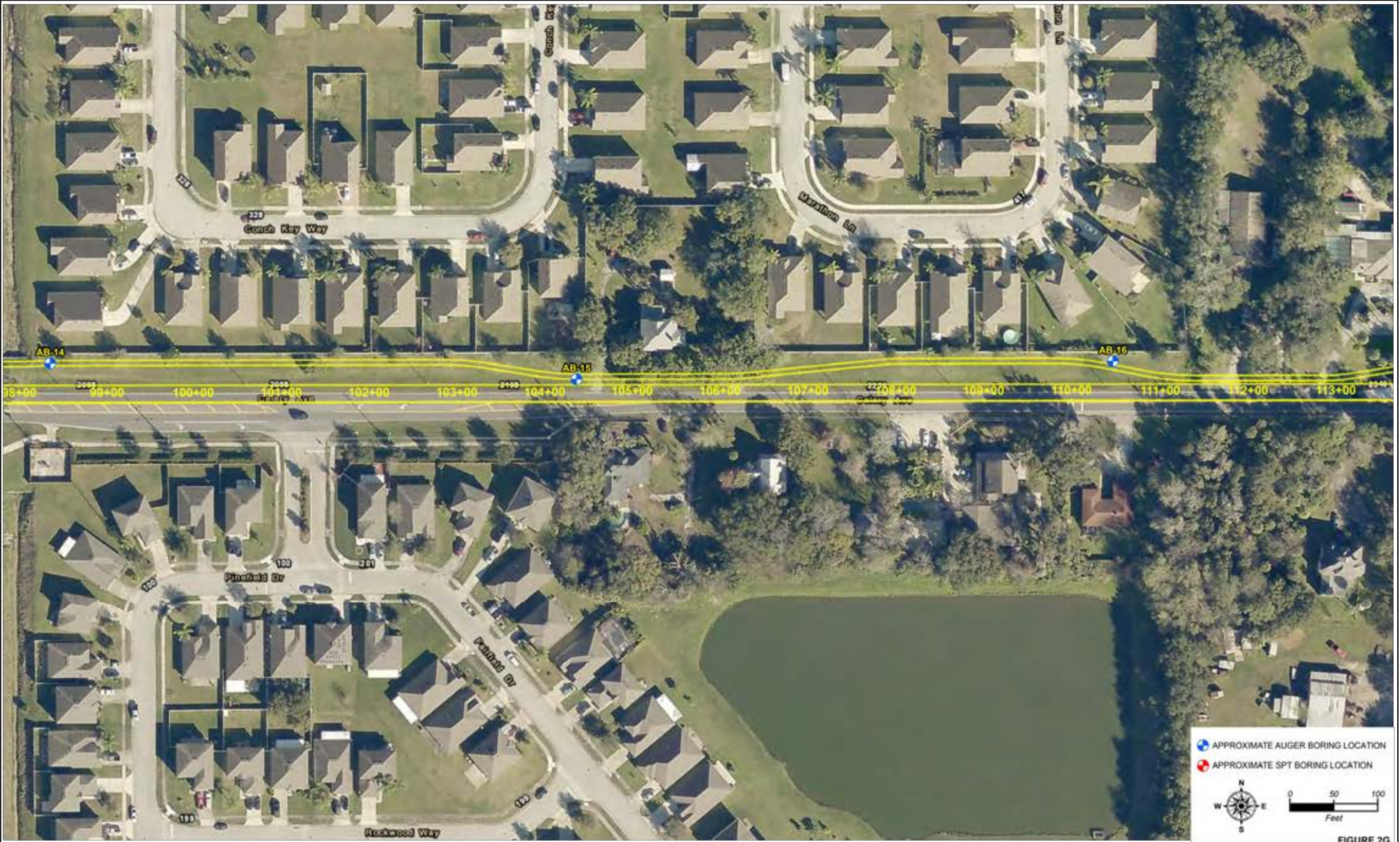


Designed by:	BMM
Drawn by:	SKR
Checked by:	CGB
Approved by:	CGB
Job No.	3858G1

Date:	7-6-16
Scale:	AS NOTED

Seminole County
Lake Monroe Trail Loop

BORING LOCATION PLAN



REVISIONS			
DATE	DISCRIPTION	DATE	DISCRIPTION

Geotechnical and Environmental
Consultants, Inc.
919 Lake Baldwin Lane
Orlando, FL 32814
PH (407) 898-1818 FAX (407) 898-1837
Certificate of Authorization No. 0005582

GEC

Designed by:	BMM	Date:	7-6-16
Drawn by:	SKR	Scale:	AS NOTED
Checked by:	CGB		
Approved by:	CGB		
Job No.	3858G1		

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Seminole County
Lake Monroe Trail Loop

BORING LOCATION PLAN

Sheet No.
80

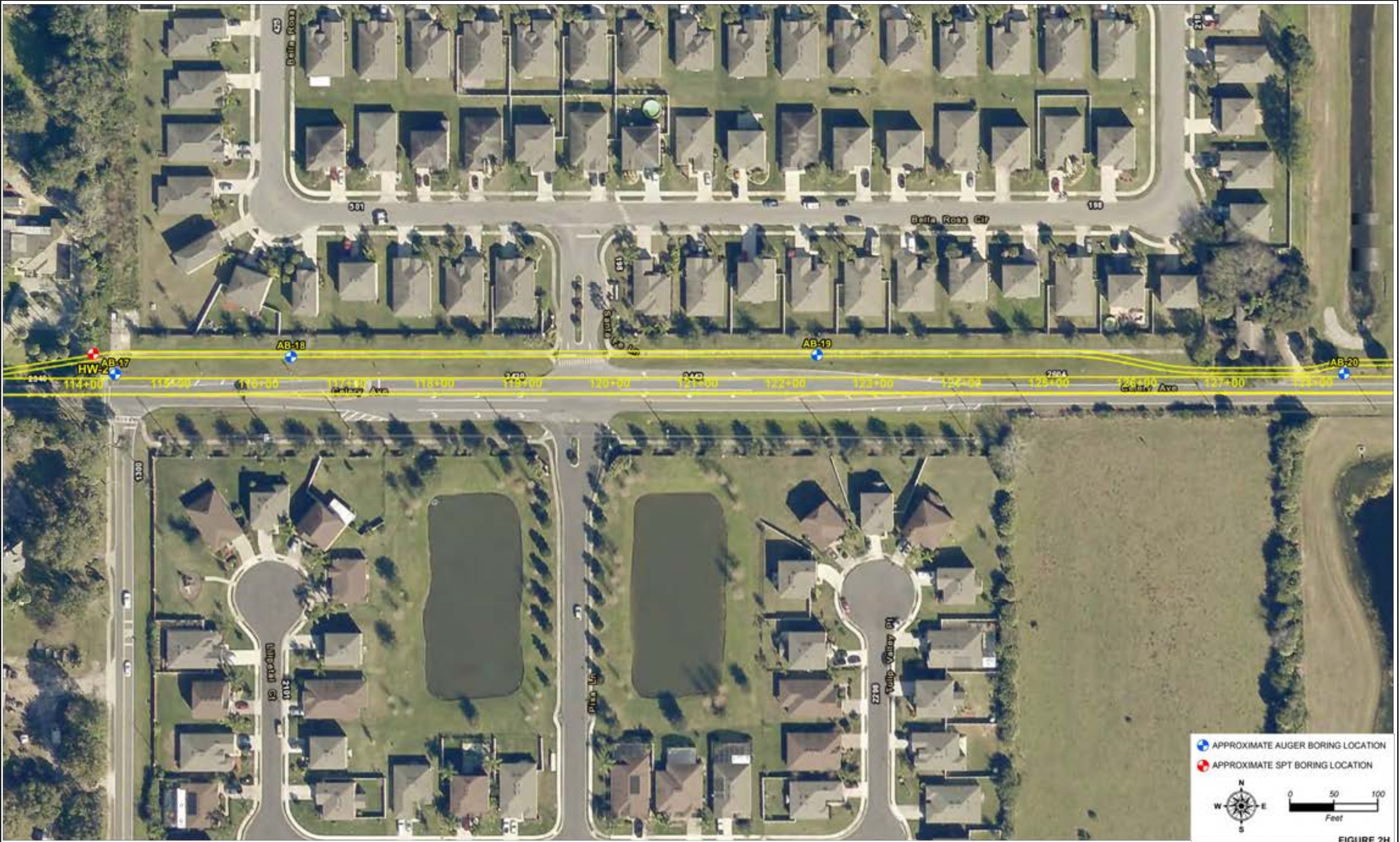


FIGURE 2H

REVISIONS				Geotechnical and Environmental Consultants, Inc. 919 Lake Baldwin Lane Orlando, FL 32814 PH (407) 898-1818 FAX (407) 898-1837 Certificate of Authorization No. 0005582	GEC	Designed by: BMM Drawn by: SKR Checked by: CGB Approved by: CGB Job No. 3858G1	Date: 7-6-16 Scale: AS NOTED	Seminole County Lake Monroe Trail Loop	BORING LOCATION PLAN	Sheet No. 81
DATE	DISCRIPTION	DATE	DISCRIPTION							

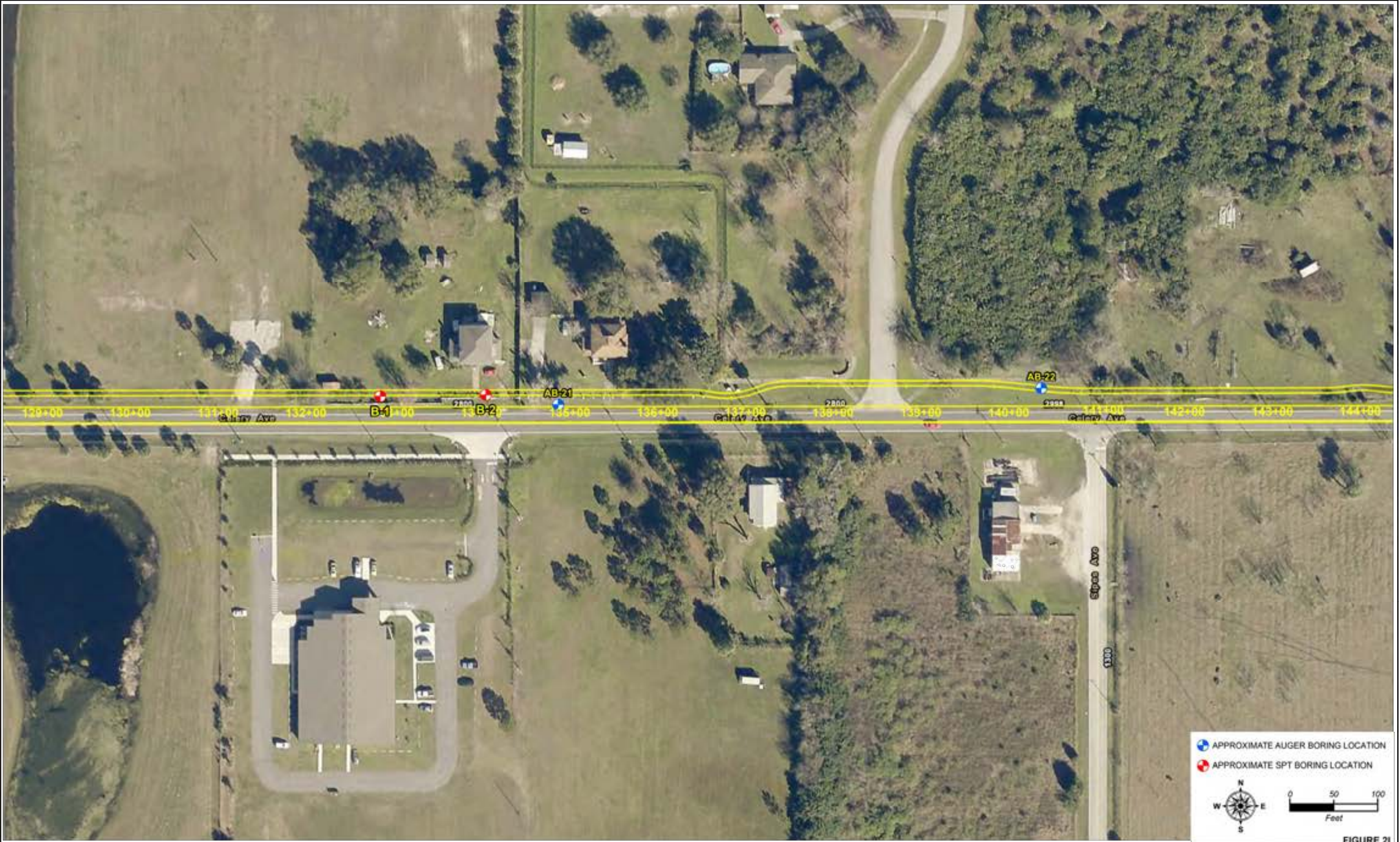


FIGURE 21

REVISIONS				<div>Geotechnical and Environmental Consultants, Inc. 919 Lake Baldwin Lane Orlando, FL 32814 PH (407) 898-1818 FAX (407) 898-1837 Certificate of Authorization No. 00005862</div> <div>GEC</div>	Designed by: BMM Drawn by: SKR Checked by: CGB Approved by: CGB Job No. 3858G1		<div>Seminole County Lake Monroe Trail Loop</div>	<div>BORING LOCATION PLAN</div>	<div>Sheet No. 82</div>
DATE	DISCRIPTION	DATE	DISCRIPTION						

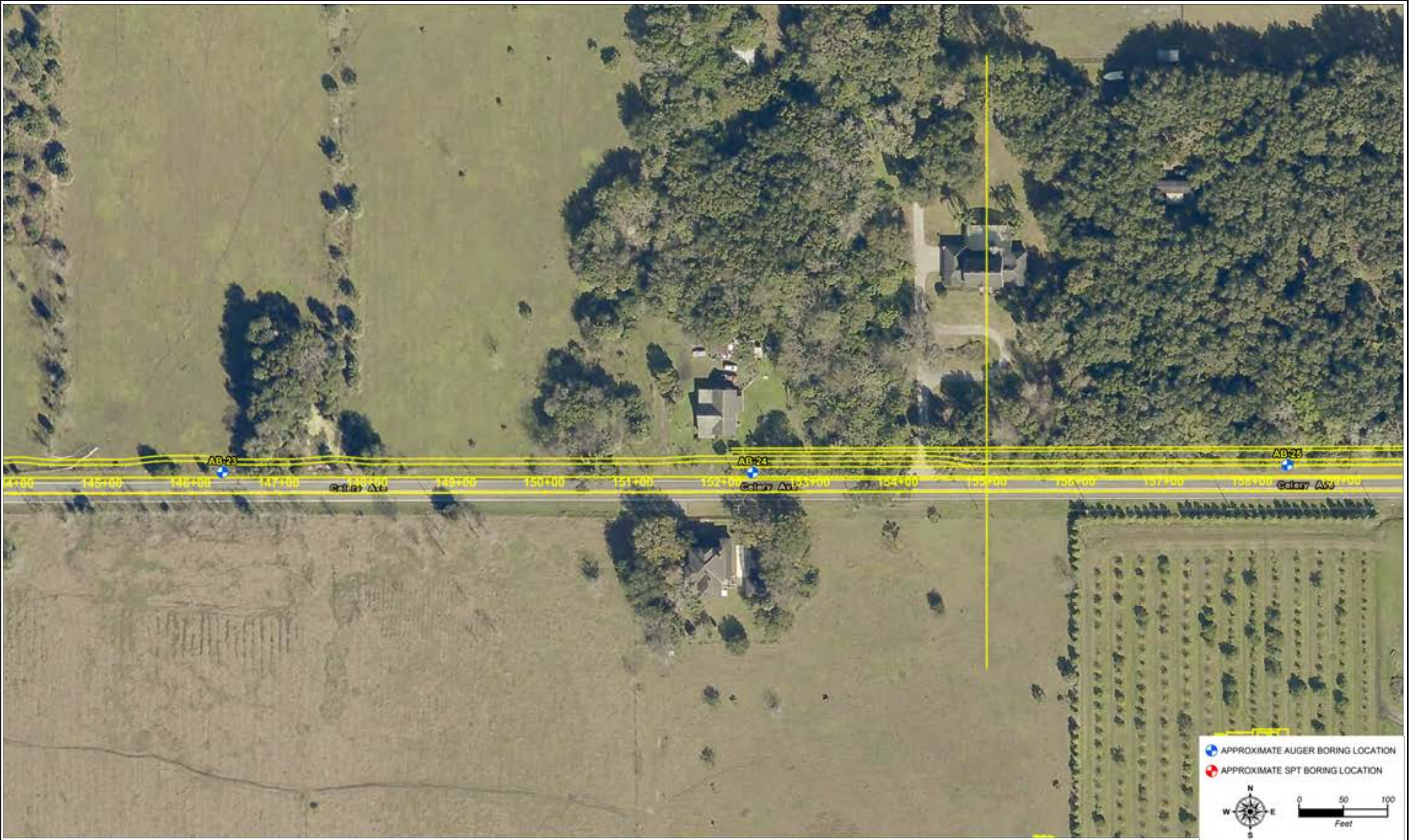


FIGURE 2J

REVISIONS				<div>Geotechnical and Environmental Consultants, Inc.</div> <div>919 Lake Baldwin Lane Orlando, FL 32814 PH (407) 898-1818 FAX (407) 898-1837 Certificate of Authorization No. 00005862</div> <div>GEC</div>	Designed by:	BMM	Date: 7-6-16	<div>Seminole County</div> <div>Lake Monroe Trail Loop</div>	<div>BORING LOCATION PLAN</div>	Sheet No.
DATE	DISCRIPTION	DATE	DISCRIPTION		Drawn by:	SKR	Scale: AS NOTED			83
					Checked by:	CGB				
					Approved by:	CGB				
					Job No.	3858G1				

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

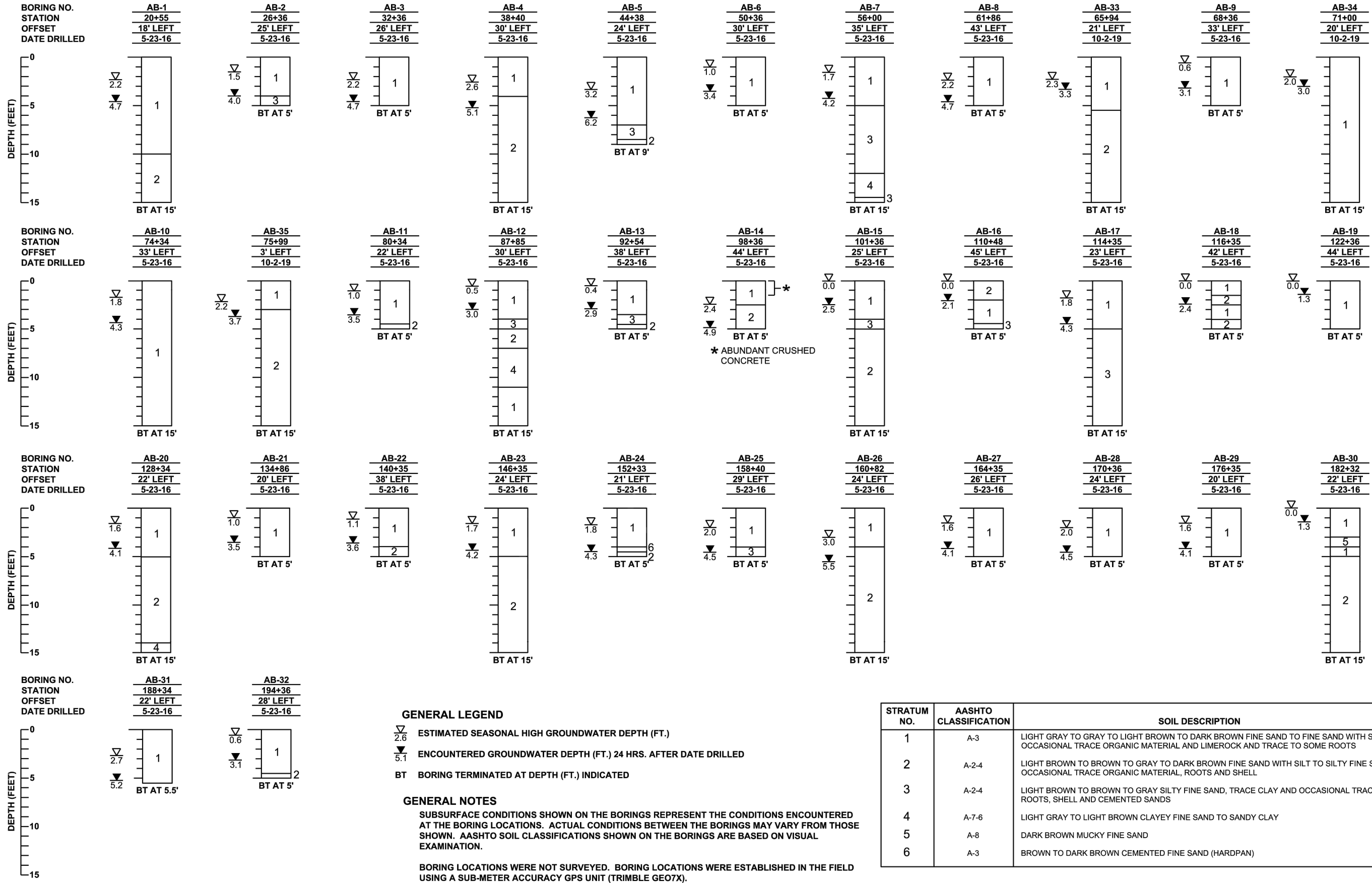
APPROXIMATE SOIL SURVEY BEGIN STA. : 20+36 APPROXIMATE SOIL SURVEY END STA. : 195+12

STATIONS REFERENCE: CENTERLINE

ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)							ATTERBERG LIMITS (%)				CORROSION TEST RESULTS					
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	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	SULFATES ppm	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 ▽ WHERE ENCOUNTERED AT TIME OF SURVEY. ESTIMATED SEASONAL HIGH SHOWN AS ▽.
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.



GENERAL LEGEND

- ▽ 2.6 ESTIMATED SEASONAL HIGH GROUNDWATER DEPTH (FT.)
- ▼ 5.1 ENCOUNTERED GROUNDWATER DEPTH (FT.) 24 HRS. AFTER DATE DRILLED
- BT BORING TERMINATED AT DEPTH (FT.) INDICATED

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. AASHTO SOIL CLASSIFICATIONS SHOWN ON THE BORINGS ARE BASED ON VISUAL EXAMINATION.

BORING LOCATIONS WERE NOT SURVEYED. BORING LOCATIONS WERE ESTABLISHED IN THE FIELD USING A SUB-METER ACCURACY GPS UNIT (TRIMBLE GEO7X).

STRATUM NO.	AASHTO CLASSIFICATION	SOIL DESCRIPTION
1	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
2	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
3	A-2-4	LIGHT BROWN TO BROWN TO GRAY SILTY FINE SAND, TRACE CLAY AND OCCASIONAL TRACE ROOTS, SHELL AND CEMENTED SANDS
4	A-7-6	LIGHT GRAY TO LIGHT BROWN CLAYEY FINE SAND TO SANDY CLAY
5	A-8	DARK BROWN MUCKY FINE SAND
6	A-3	BROWN TO DARK BROWN CEMENTED FINE SAND (HARDPAN)

No.	Date	Revision	By	No.	Date	Revision	By
1				1			
2				2			
3				3			
4				4			

GEOTECHNICAL AND ENVIRONMENTAL
CONSULTANTS, INC.
919 Lake Baldwin Lane
Orlando, FL 32814
T 407-898-1818 F 407-898-1837
Certificate of Authorization No. 5882

GEC

Designed by:	BMM	Date:	10-17-19
Drawn by:	SKR	Scale:	AS NOTED
Checked by:	CGB		
Approved by:	CGB		
Job No.	3858G1		

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
Craig G. Ballock, P.E.
Licenses:
Eng. C.O.A. No. 5882 P.E. No. 71571

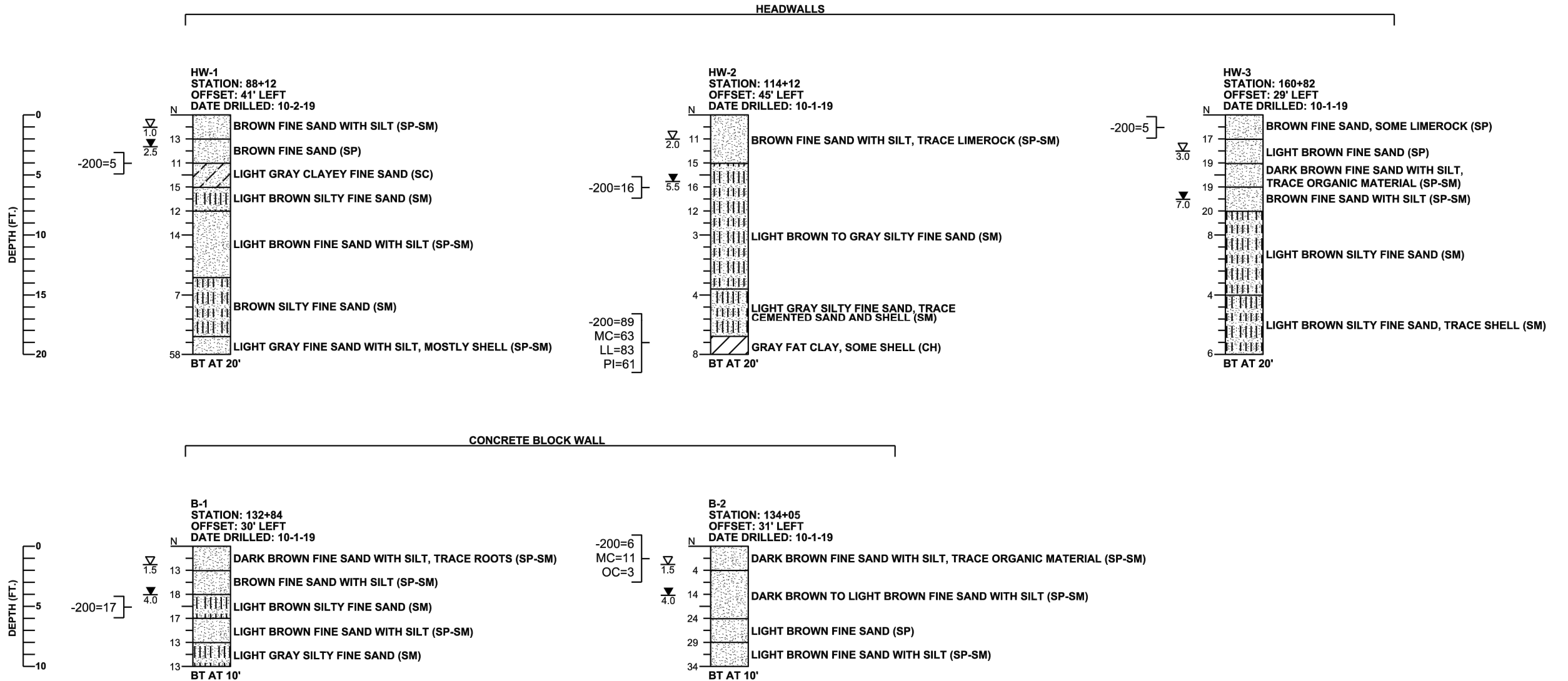
CRAIG G. BALLOCK, P.E.
FL P.E. No. 71571

REPORT OF AUGER BORING
RESULTS

FIGURE 4

Sheet No.

85



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 GEO7X).

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

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 CLAY

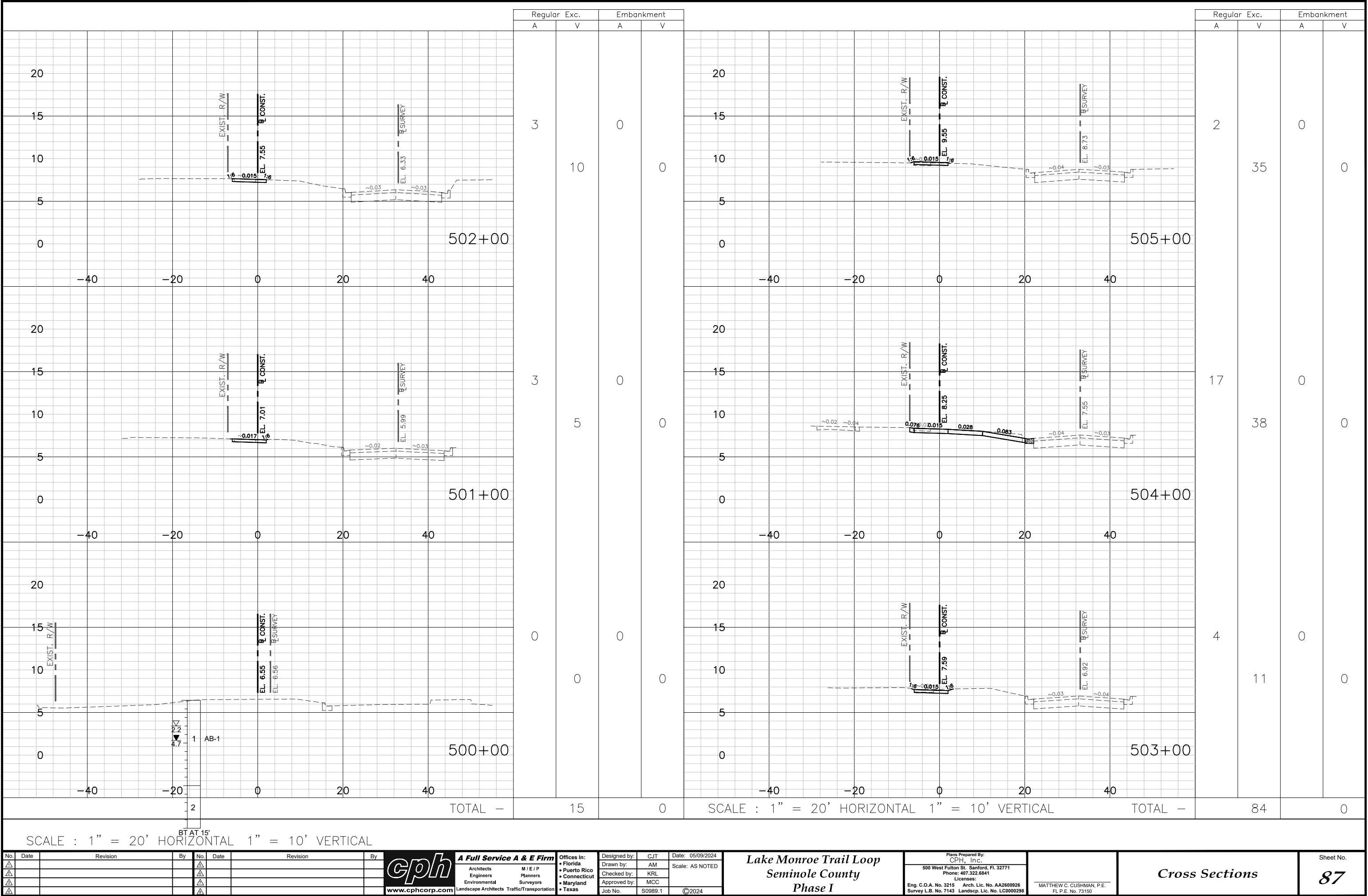
CORRELATION OF STANDARD PENETRATION RESISTANCE WITH RELATIVE DENSITY AND CONSISTENCY OF SOIL

MANUAL HAMMER (SAFETY) N VALUE		
GRANULAR SOILS	(blows per foot)	RELATIVE DENSITY
SANDS	0-4	VERY LOOSE
	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, MUCK, PEAT	0-2	VERY SOFT
	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	Designed by:	BMM	Date:	10-17-19	Drawn by:	SKR	Scale:	AS NOTED	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 Craig 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	REPORT OF SPT BORING RESULTS	Sheet No. 86
1				1				Checked by:	CGB			Approved by:	CGB							
2				2				Job No.	3858G1											

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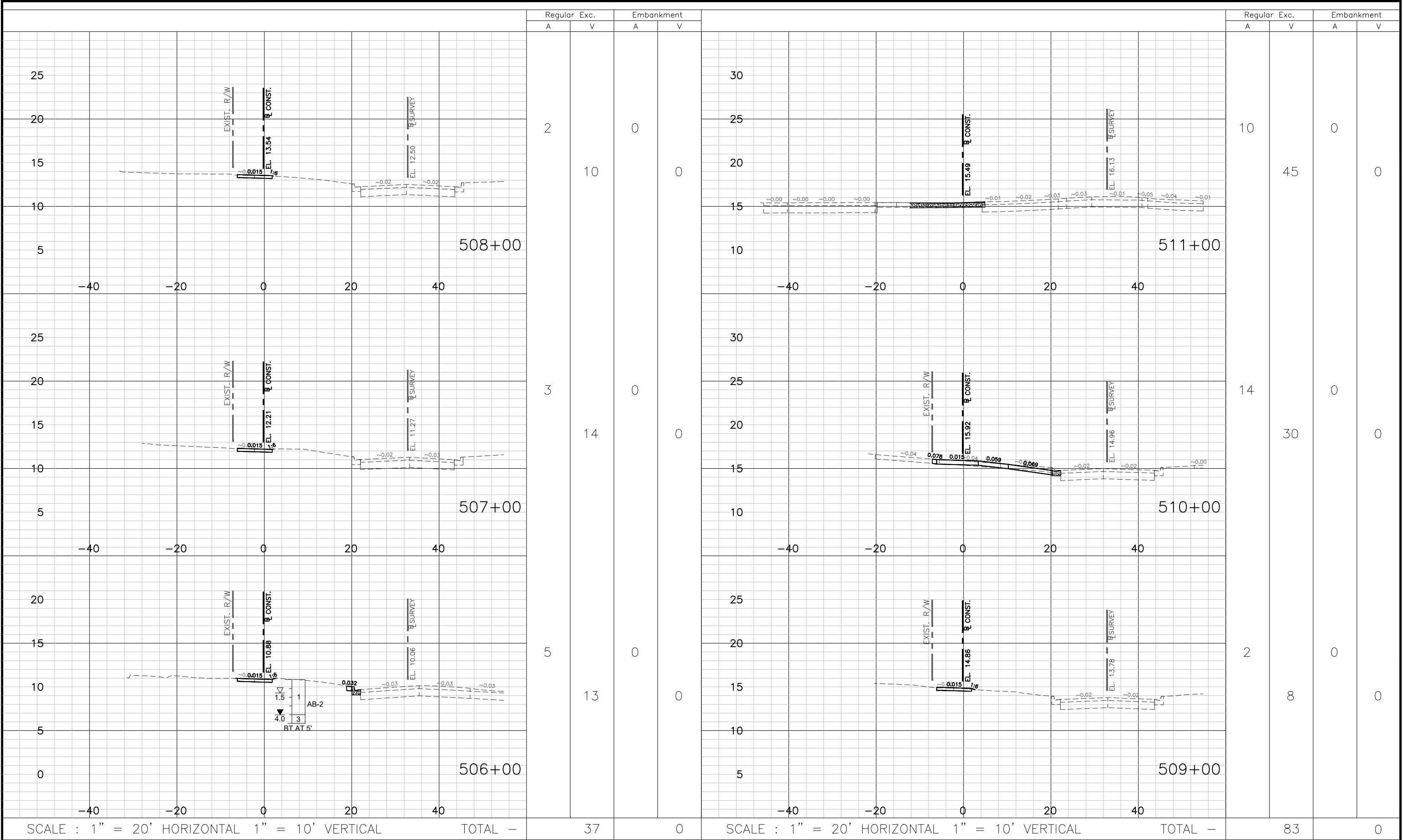
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87

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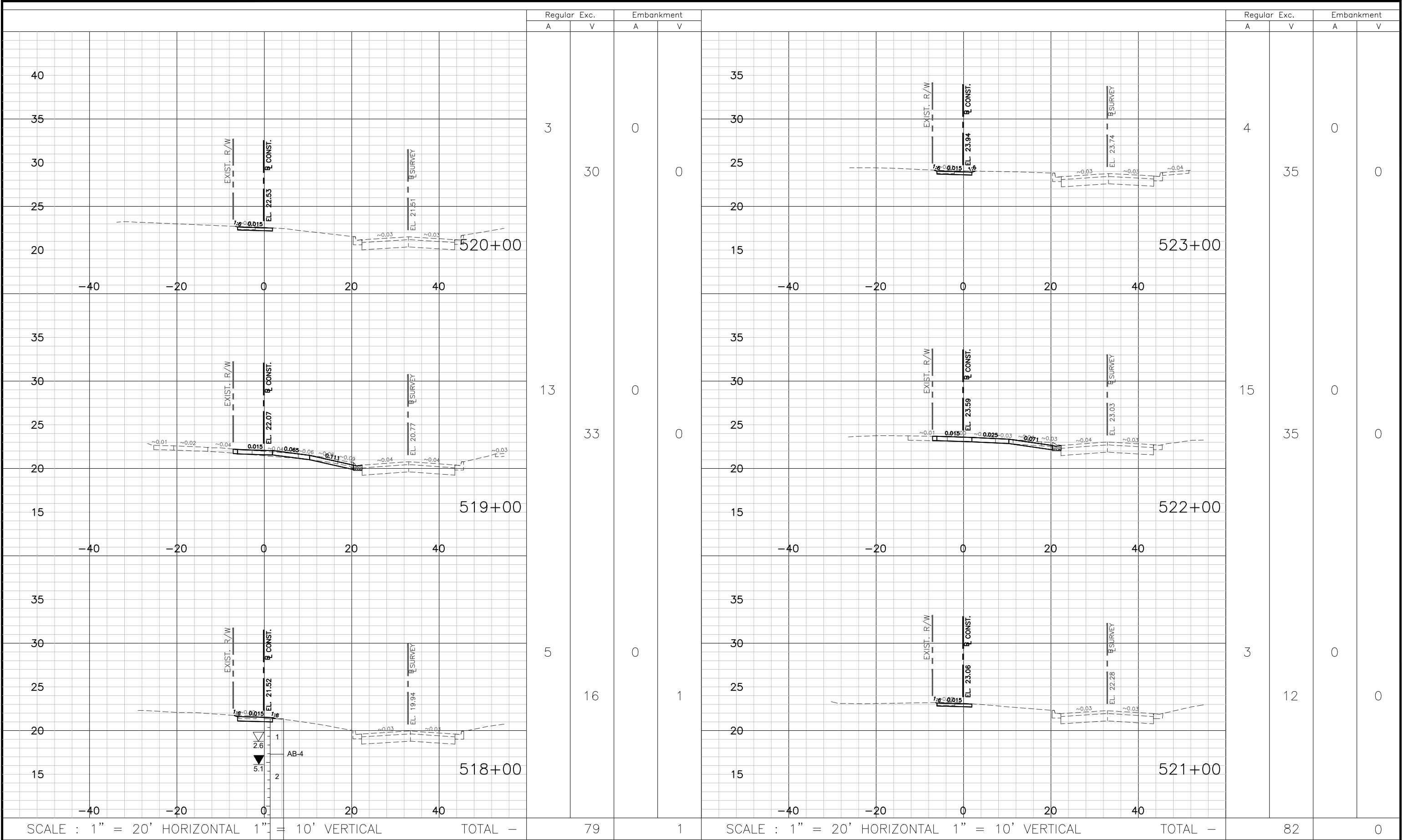
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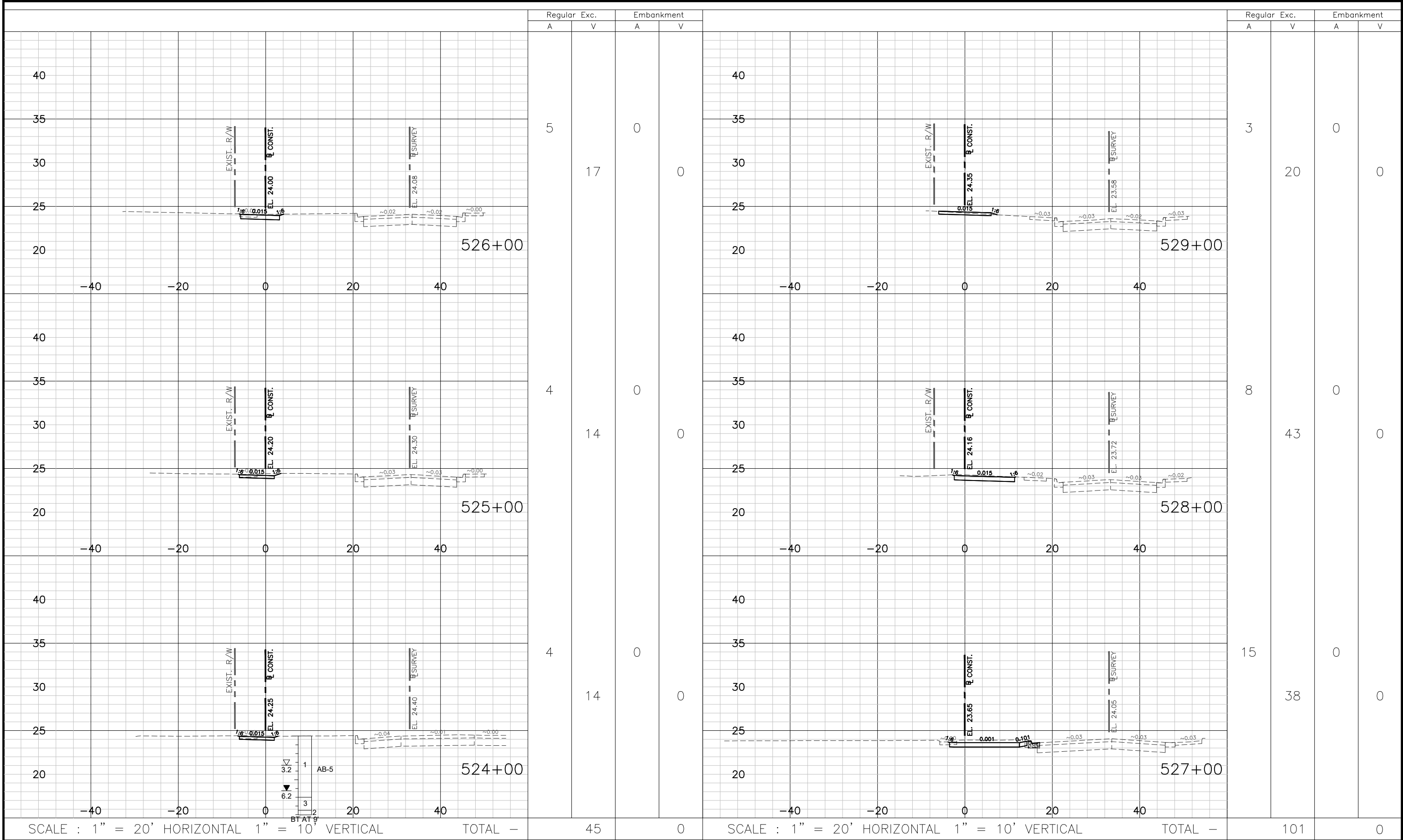
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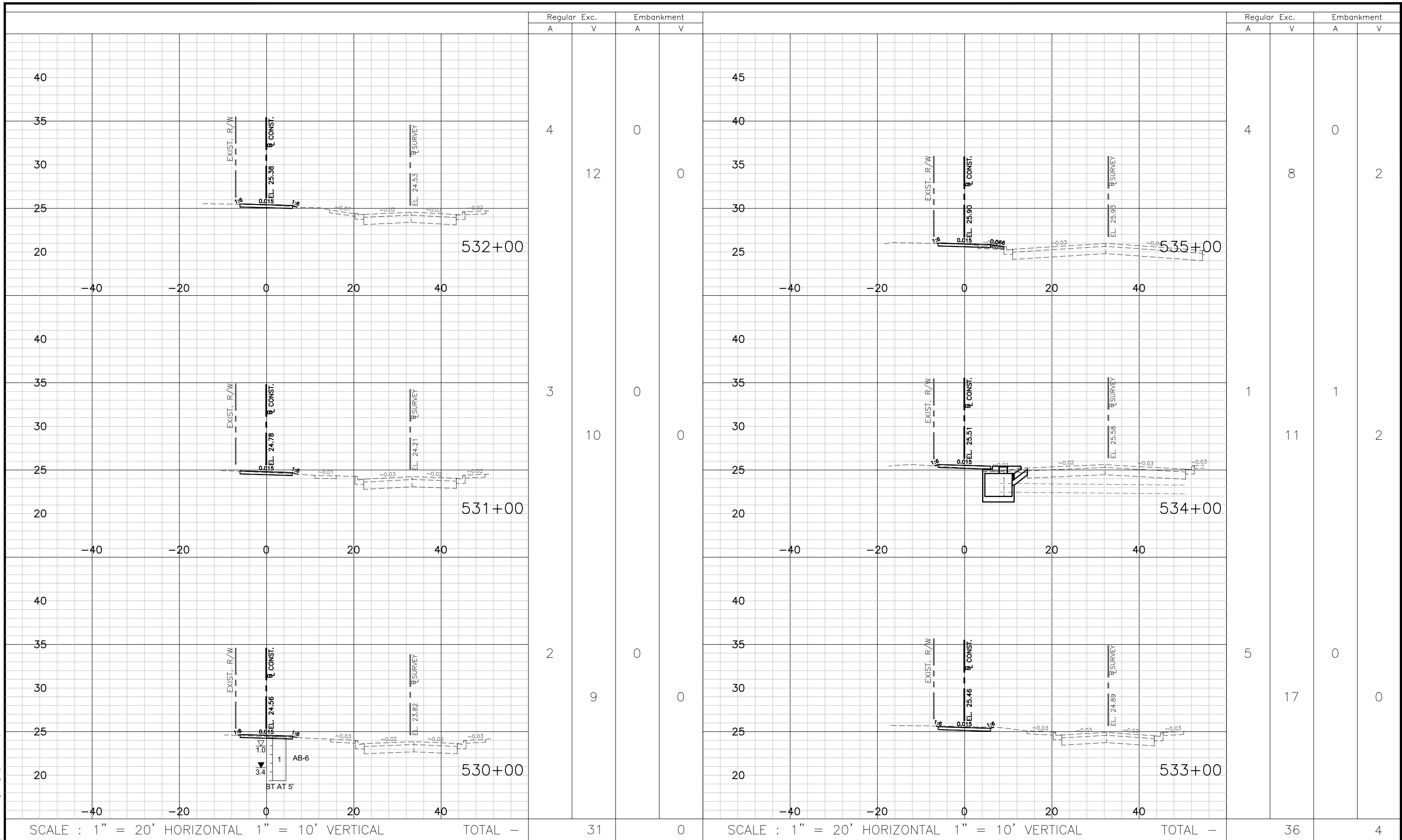
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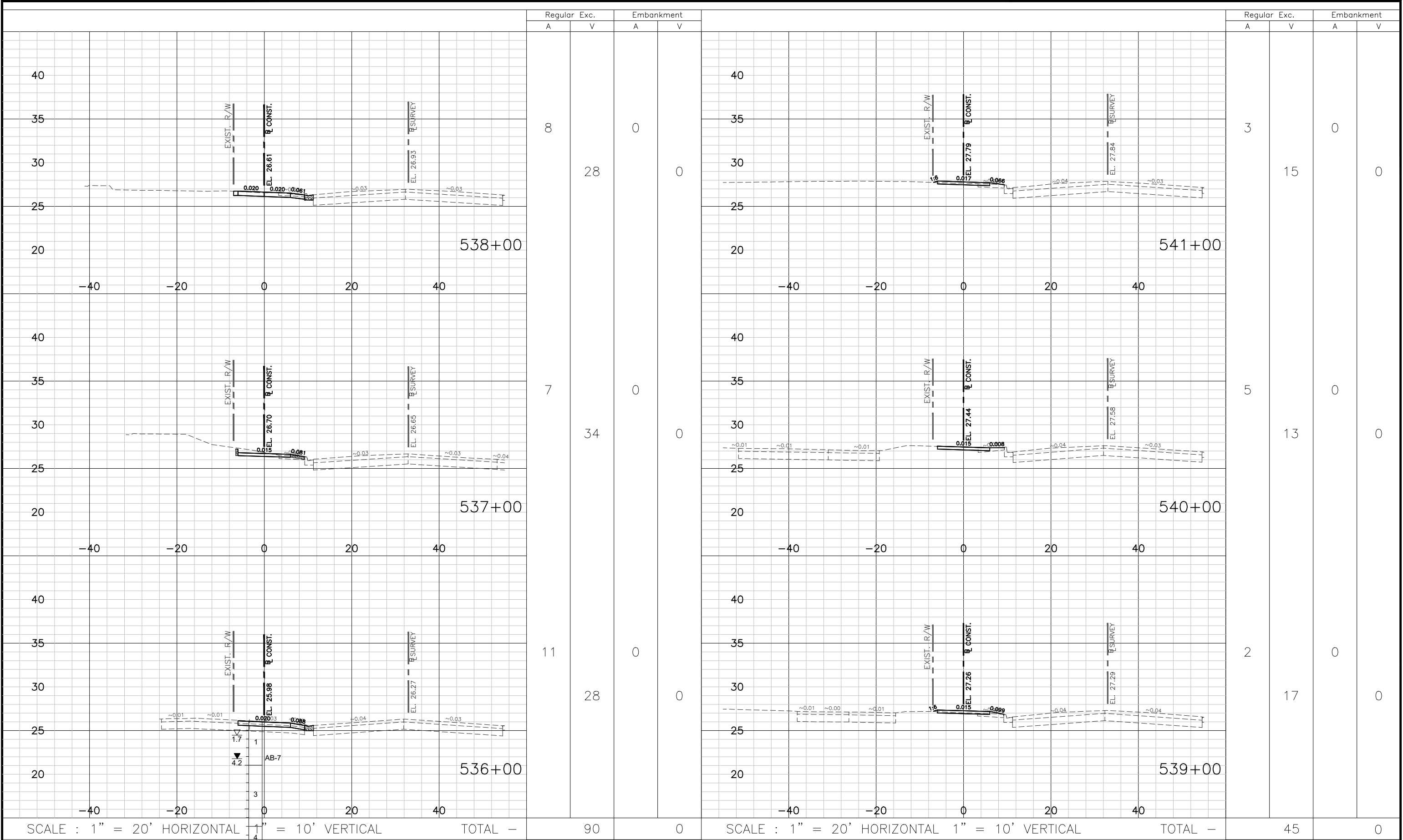
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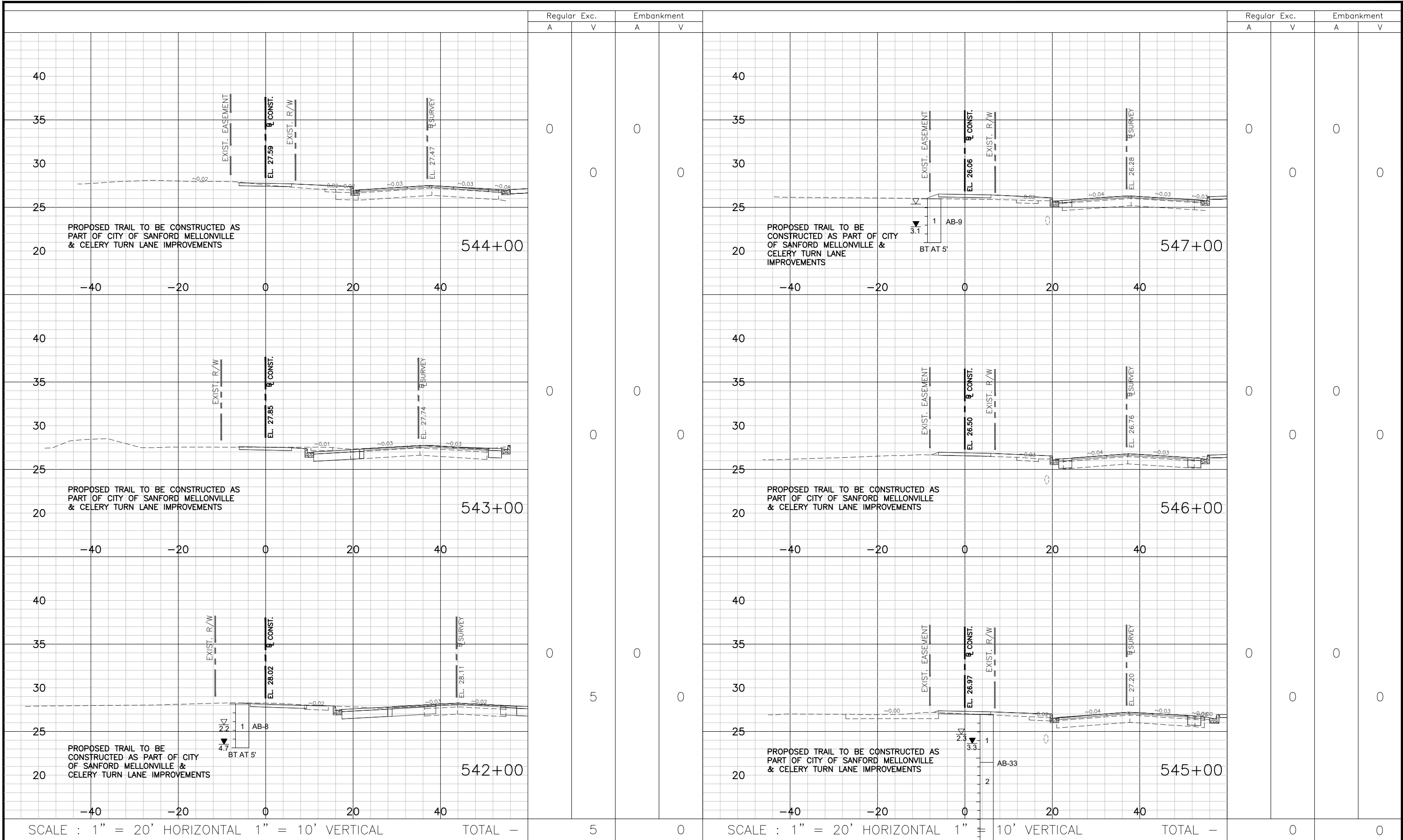
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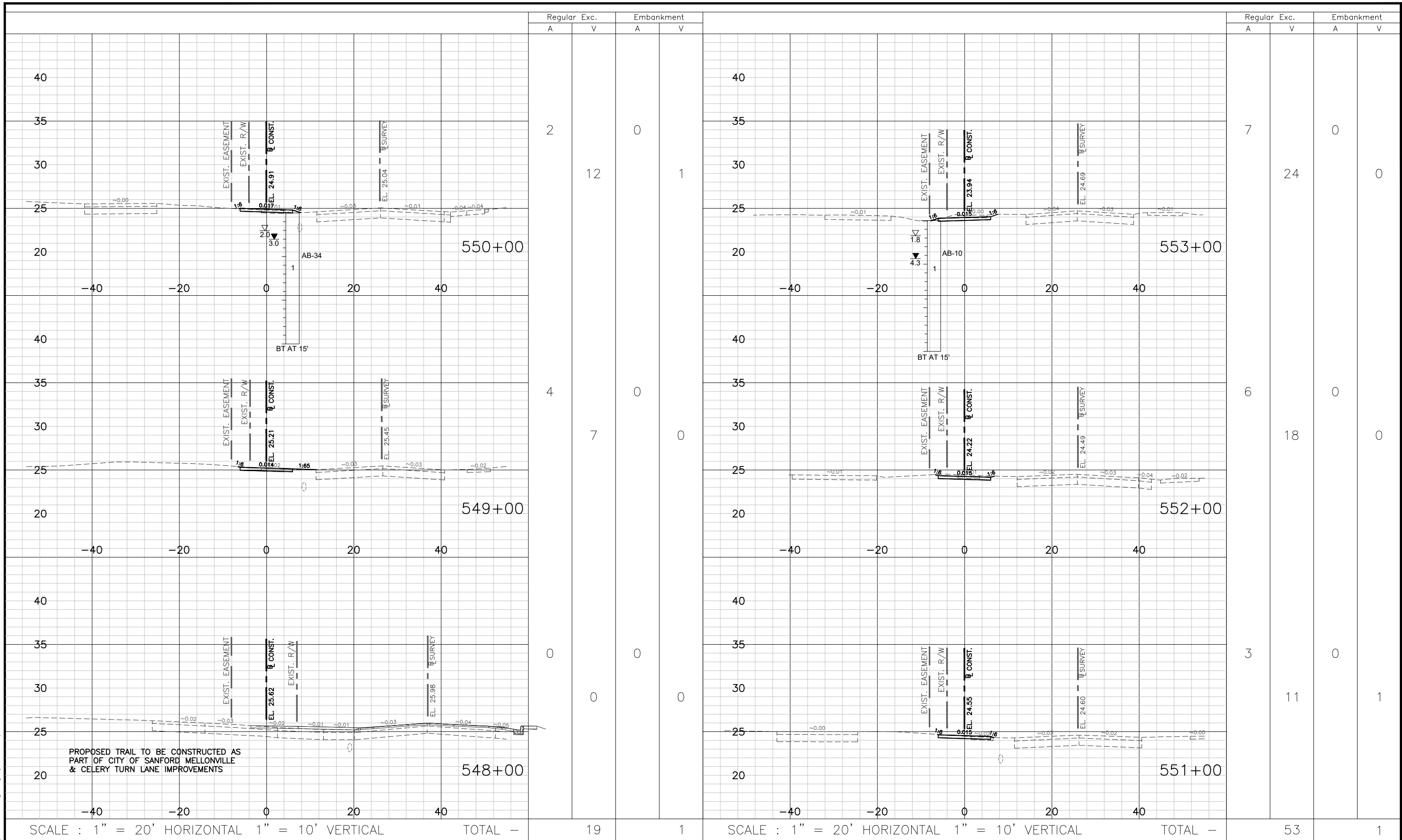
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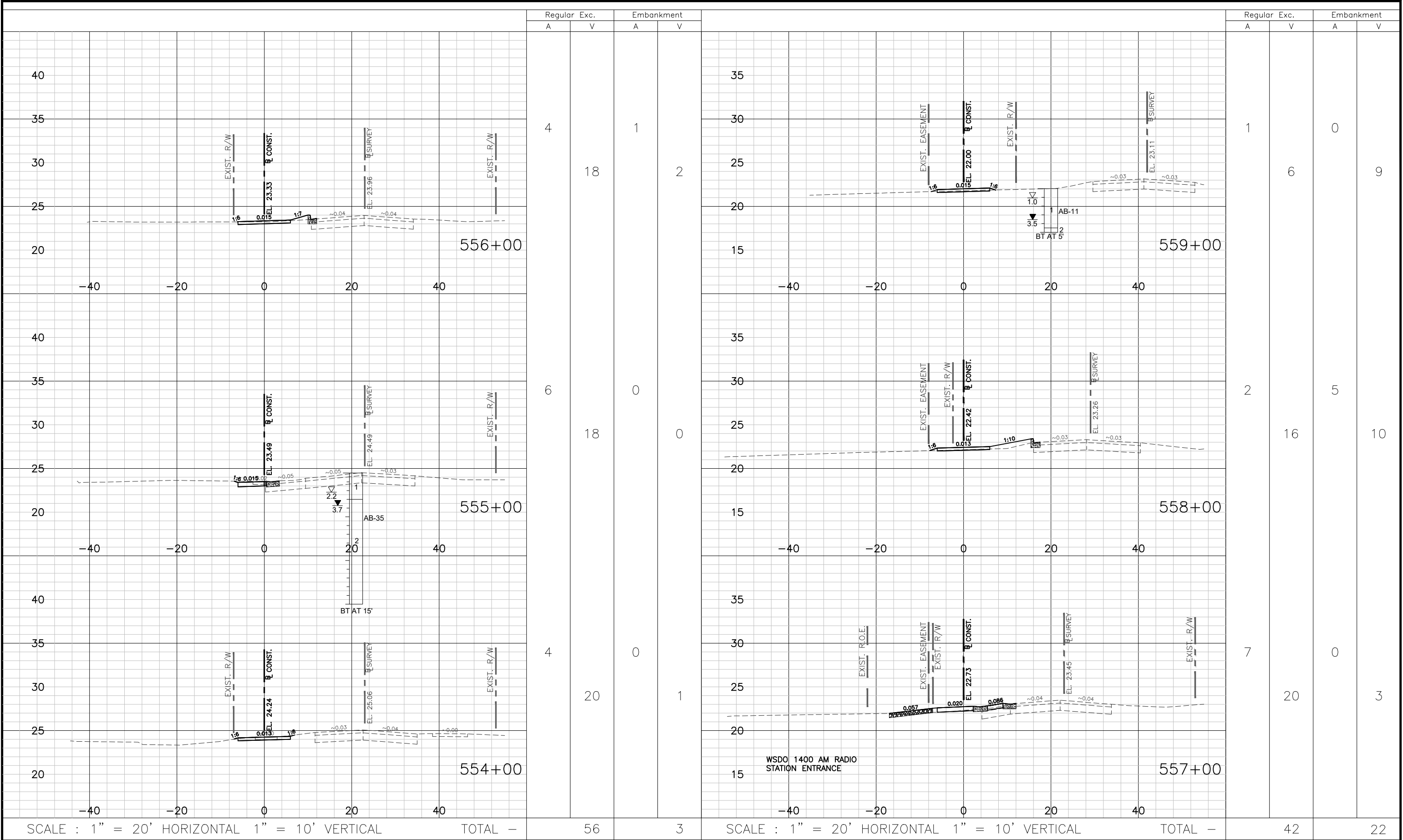
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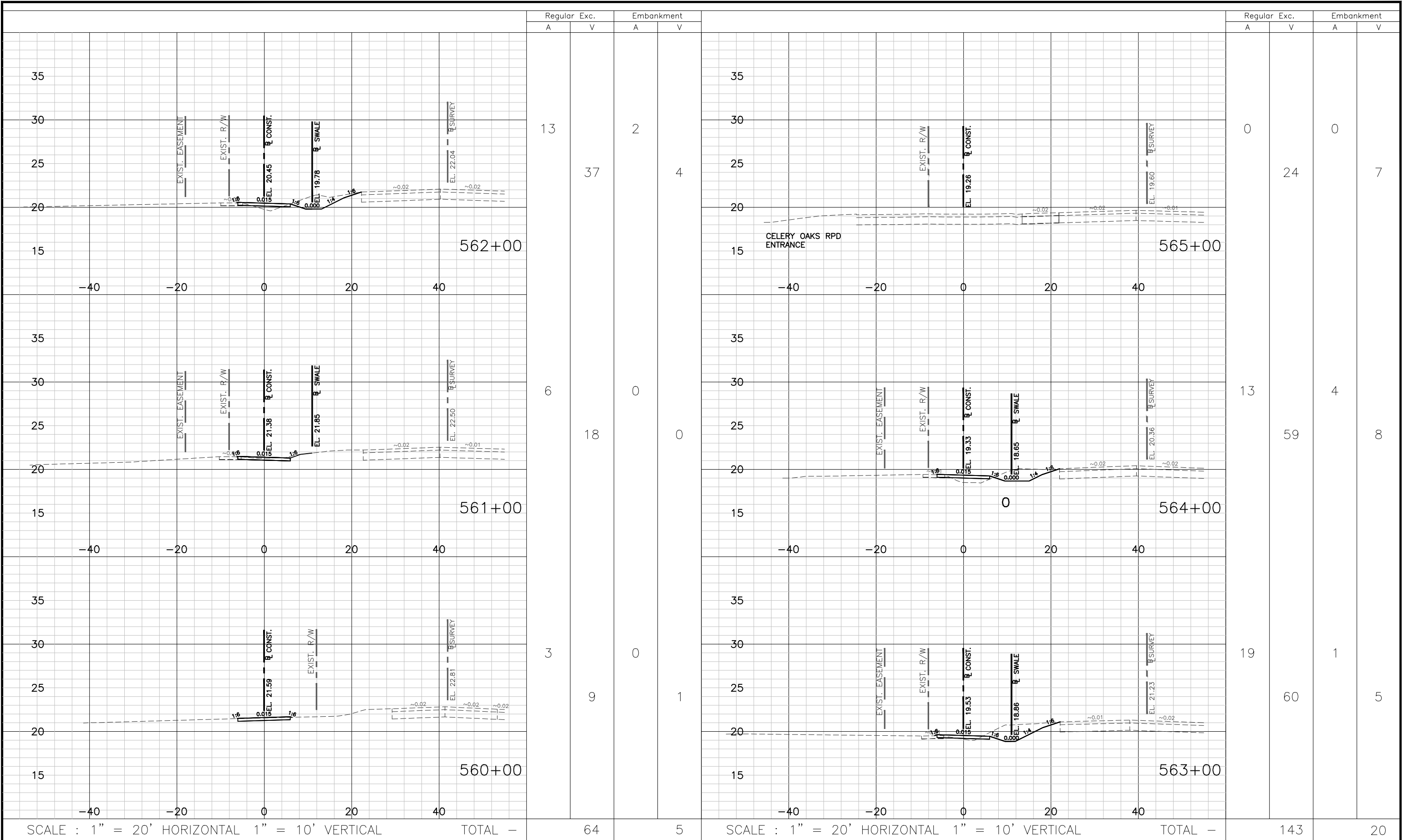
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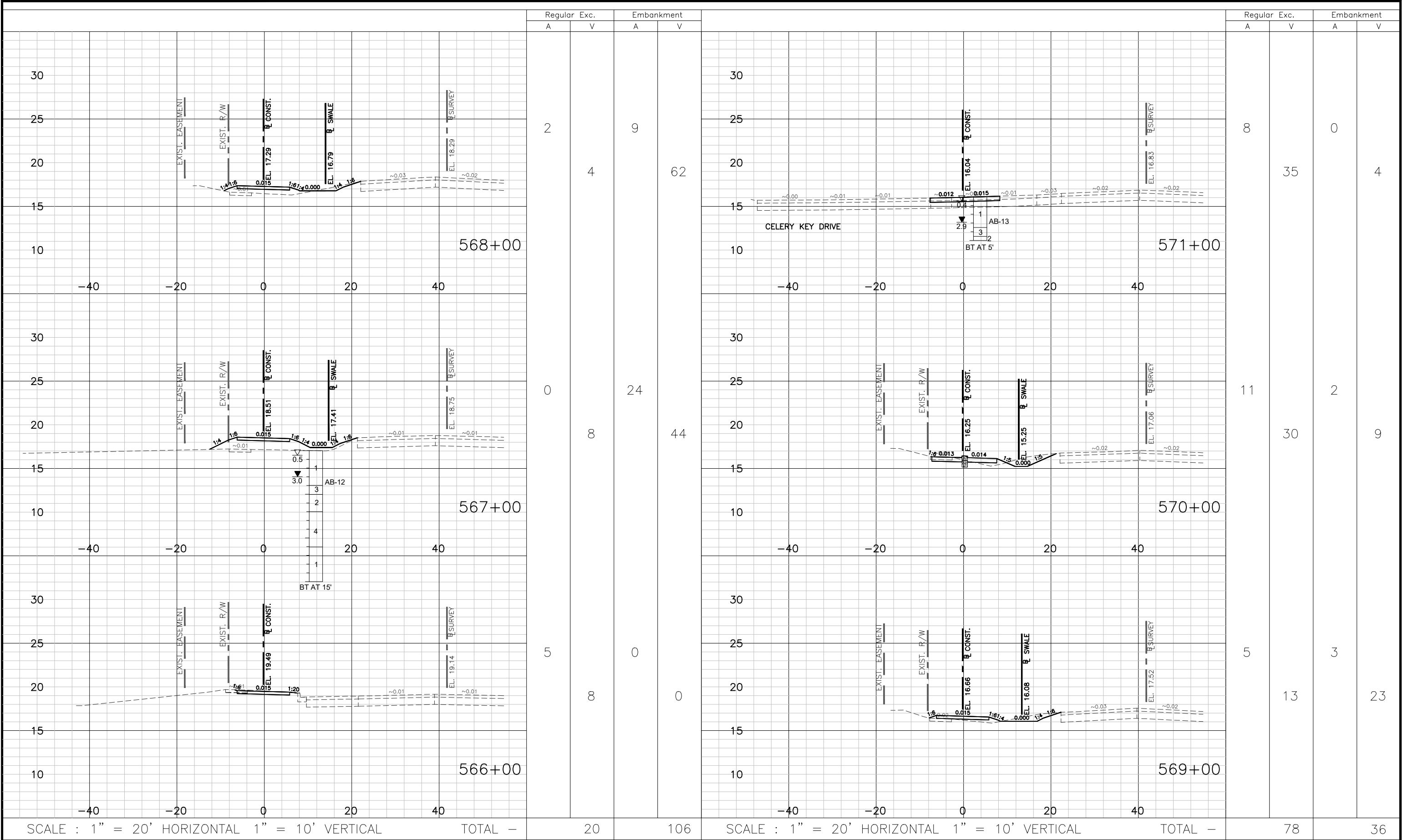
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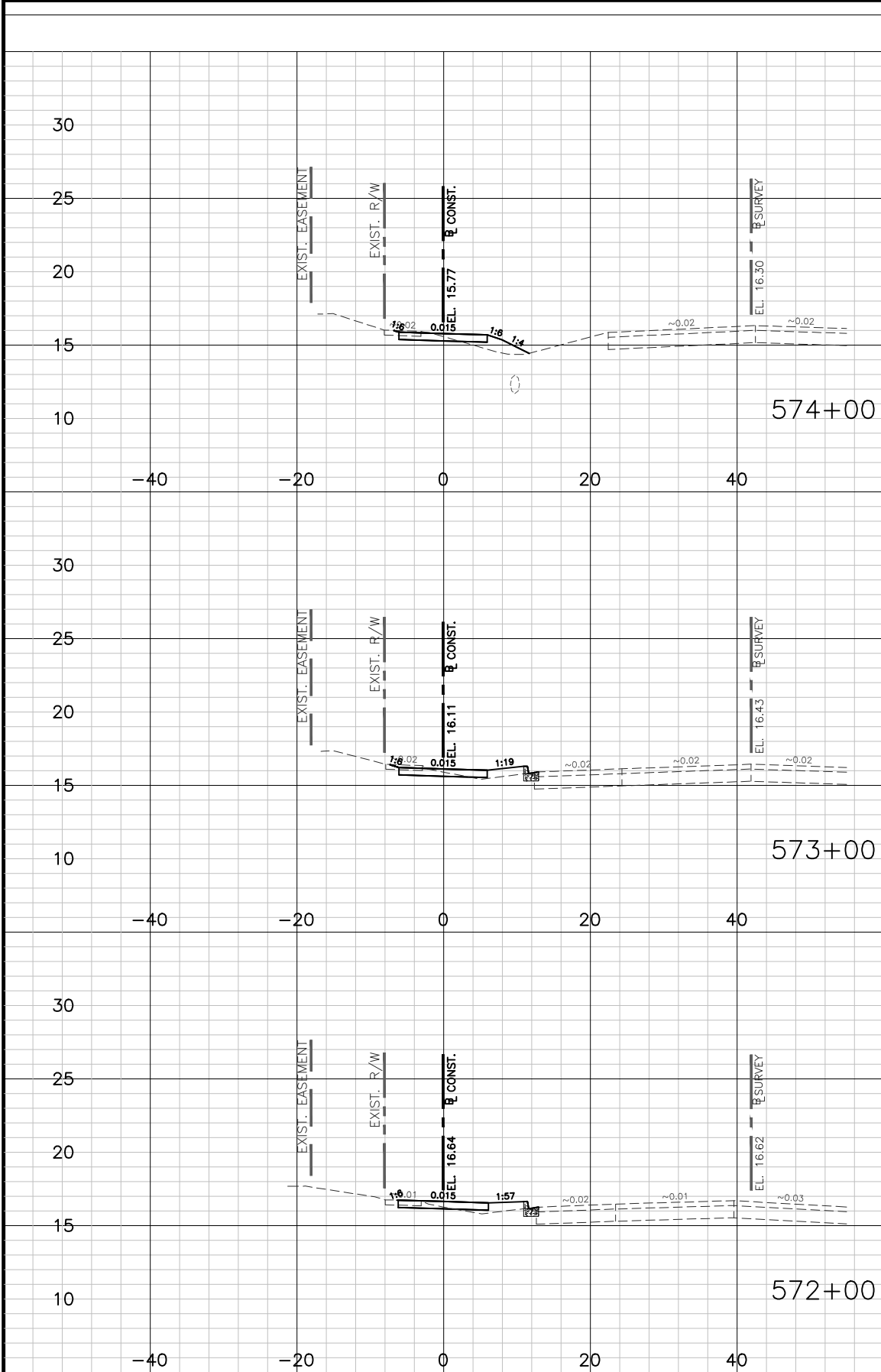
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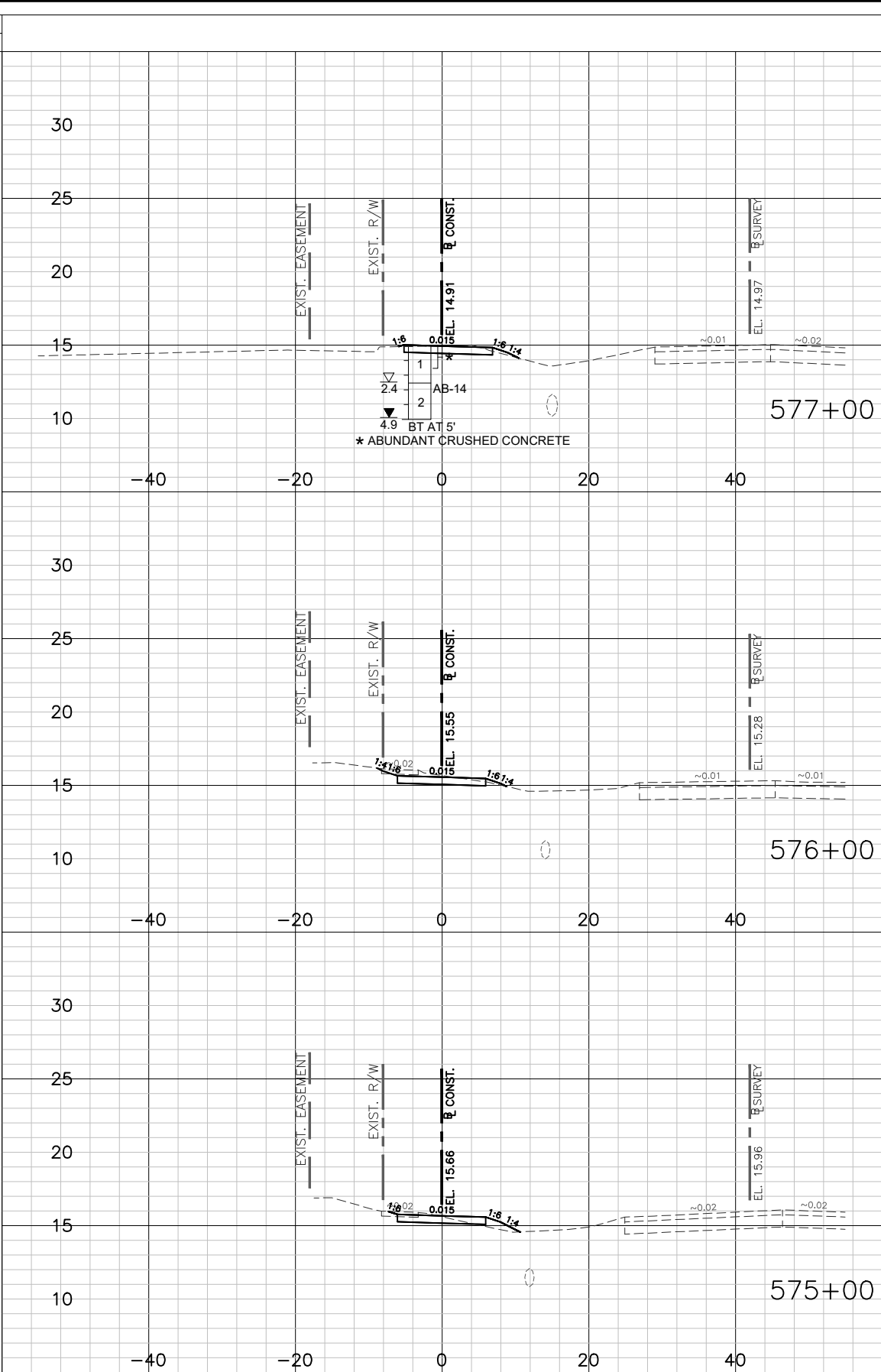
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98



Regular		Exc.	Embankment	
A	V		A	V
4		16	5	14
5		16	3	12
4		22	4	7
44			33	



Regular		Exc.	Embankment	
A	V		A	V
6		26	1	2
8		24	0	5
5		16	2	13
66			20	

SCALE : 1" = 20' HORIZONTAL 1" = 10' VERTICAL TOTAL -

SCALE : 1" = 20' HORIZONTAL 1" = 10' VERTICAL TOTAL -

6620

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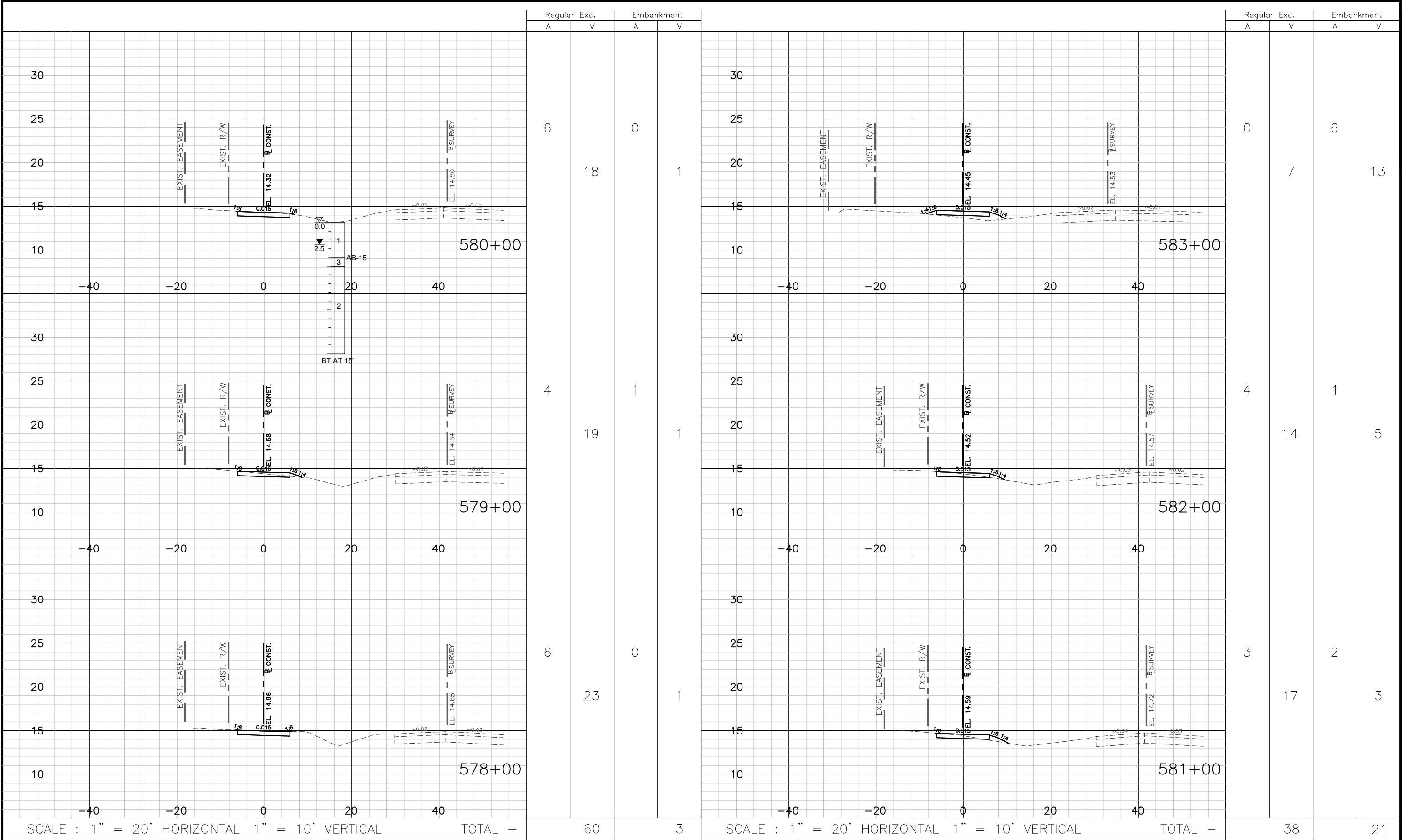
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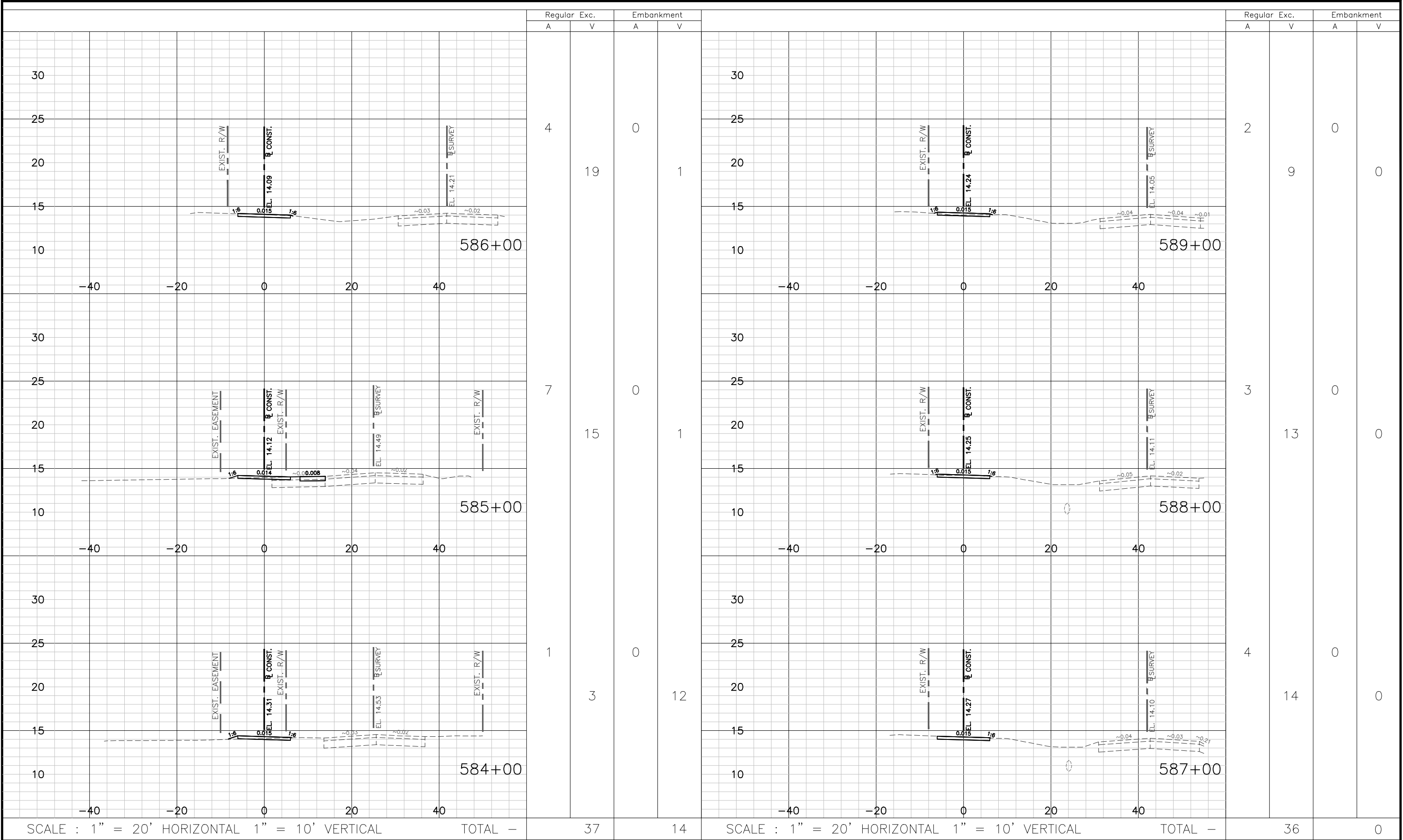
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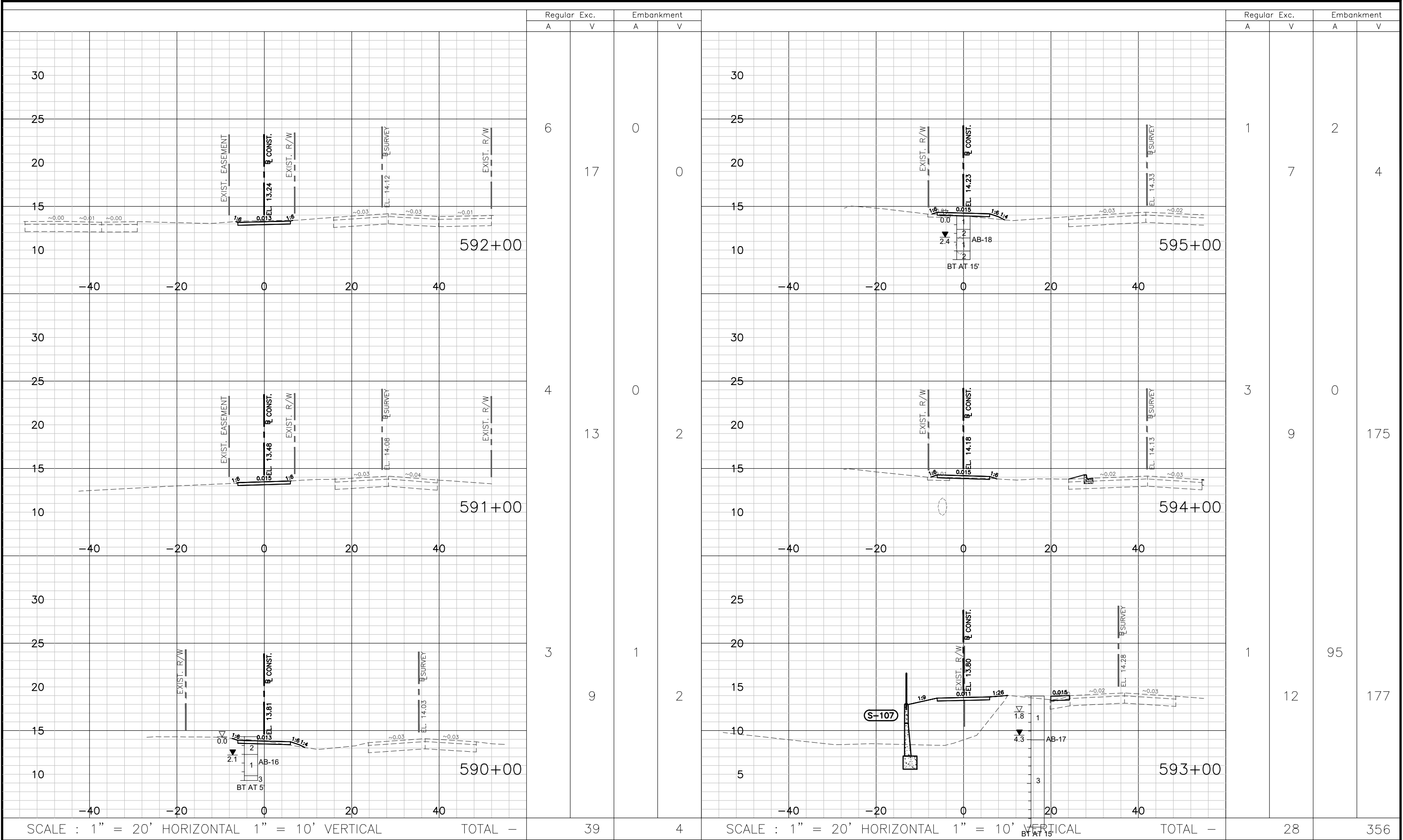
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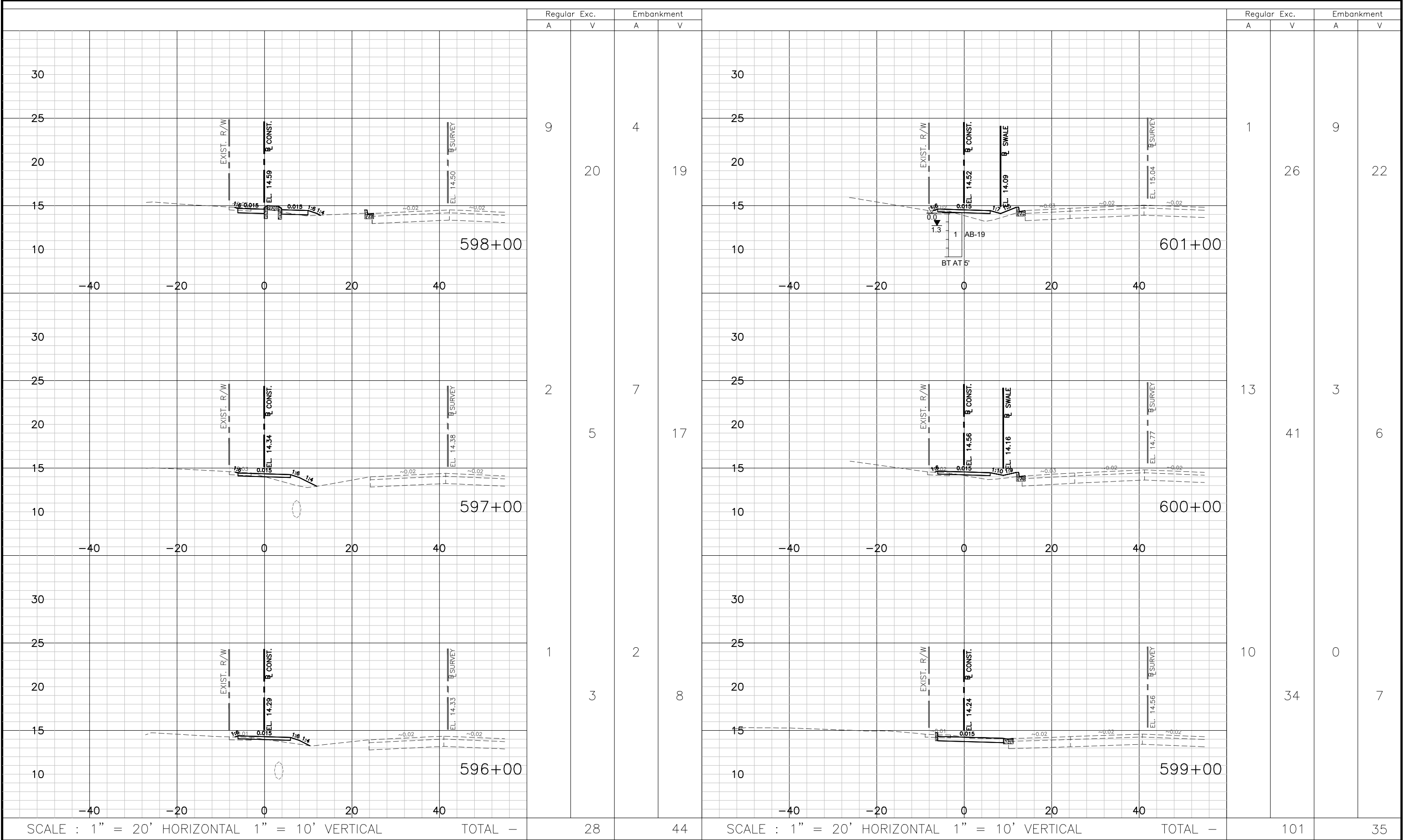
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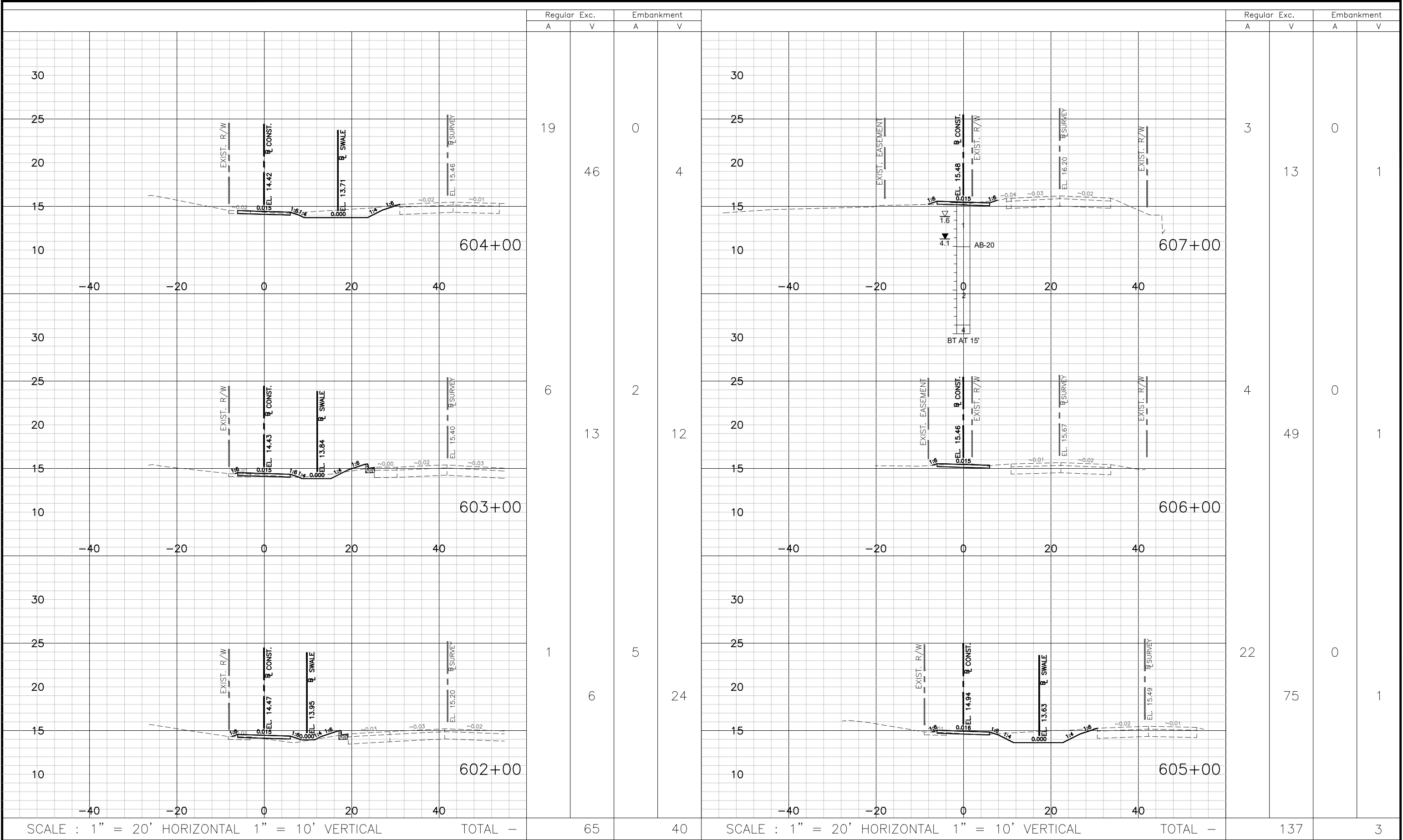
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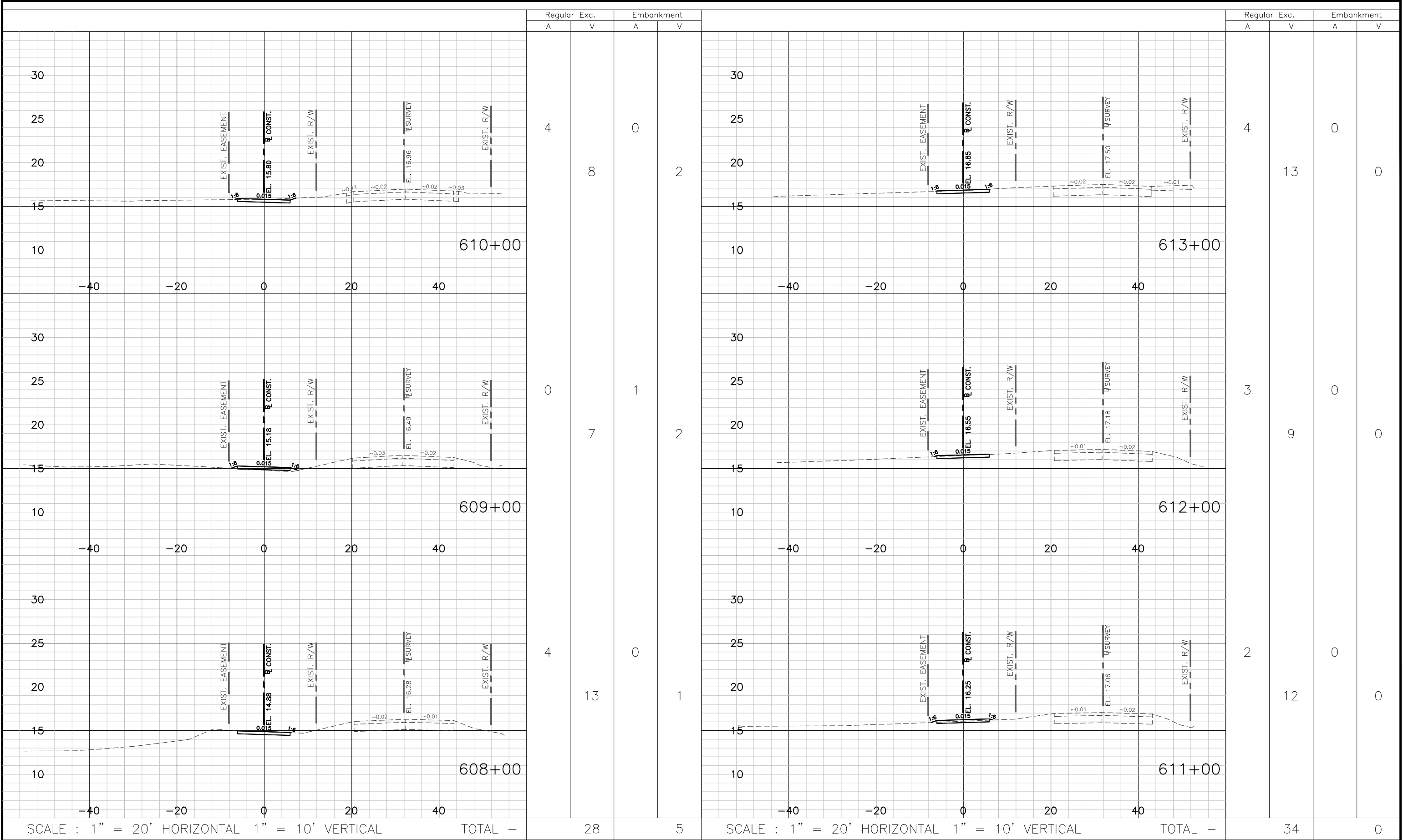
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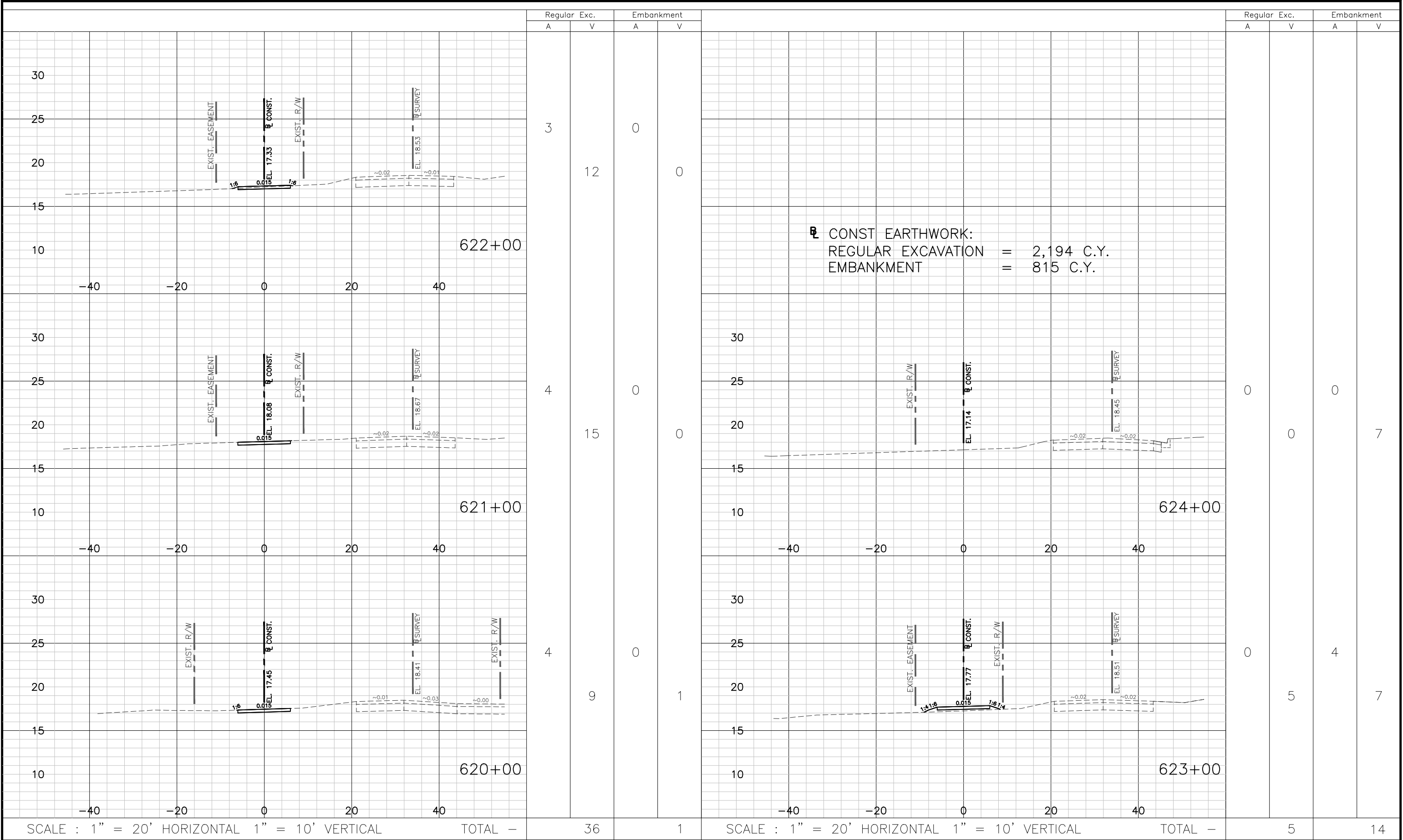
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Phone: 407.322.6841
Licenses:
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Cross Sections

Sheet No.
105

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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 = 4.75 ACRES
DISTURBED AREA = 4.75 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
 - WABASSO 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. RECEIVING WATERS

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.

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Lake Monroe Trail Loop
Seminole County
Phase I

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FL P.E. No. 73150

Stormwater Pollution
Prevention Plan Notes

Sheet No.
108

PERMANENT STABILIZATION:

A. EROSION AND SEDIMENT CONTROLS:

	TEMPORARY SODDING
	TEMPORARY GRASSING
X	PERMANENT PLANTING, SODDING, OR SEEDING
	TEMPORARY MULCHING
	ARTIFICIAL COVERING
	BUFFER ZONES
X	PRESERVATION OF NATURAL RESOURCES
	OTHER

SAND BAGGING
X SILT FENCES
X SYNTHETIC BALES
BERMS
DIVERSION INTERCEPTOR, OR PERIMETER DITCHES
PIPE SLOPE DRAINS
FLUMES
ROCK BEDDING AT CONSTRUCTION EXIT
TIMBER BEDDING AT CONSTRUCTION EXIT
X DITCH LINER
X SEDIMENT TRAPS
SEDIMENT BASINS
X STORM INLET SEDIMENT TRAP
STONE OUTLET STRUCTURES
X CURB AND GUTTERS
X STORM SEWERS
VELOCITY CONTROL DEVICES
X TURBIDITY BARRIER
RIP RAP
X DITCH BLOCK
OTHER

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

A. EROSION AND SEDIMENT CONTROLS: - CONTINUED


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.

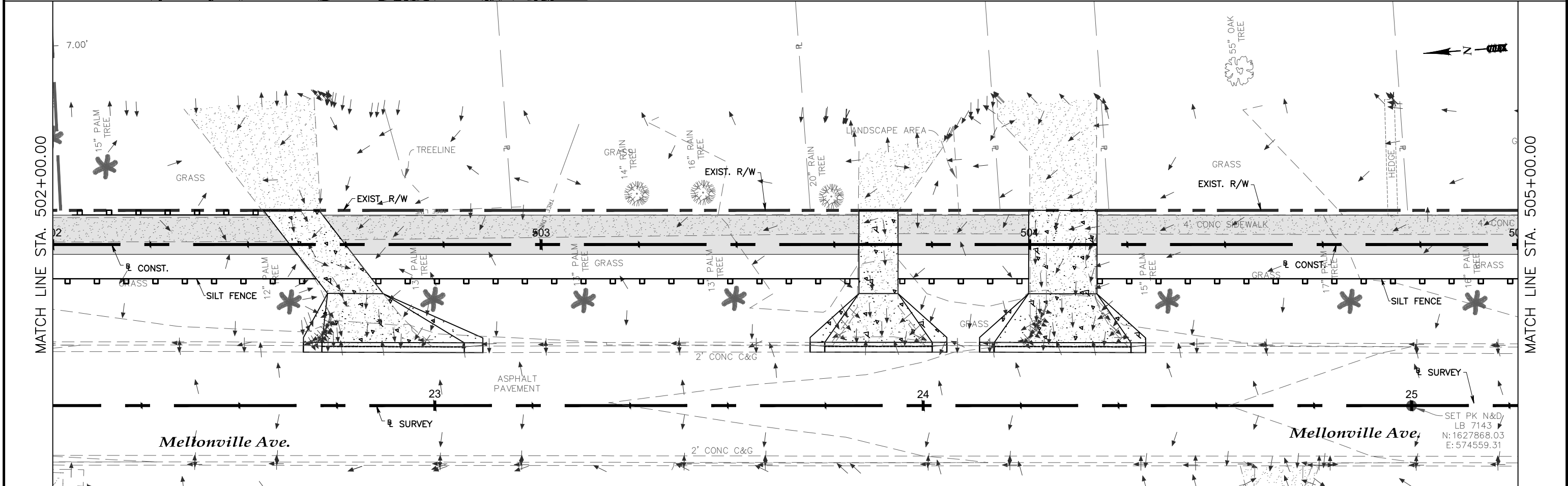
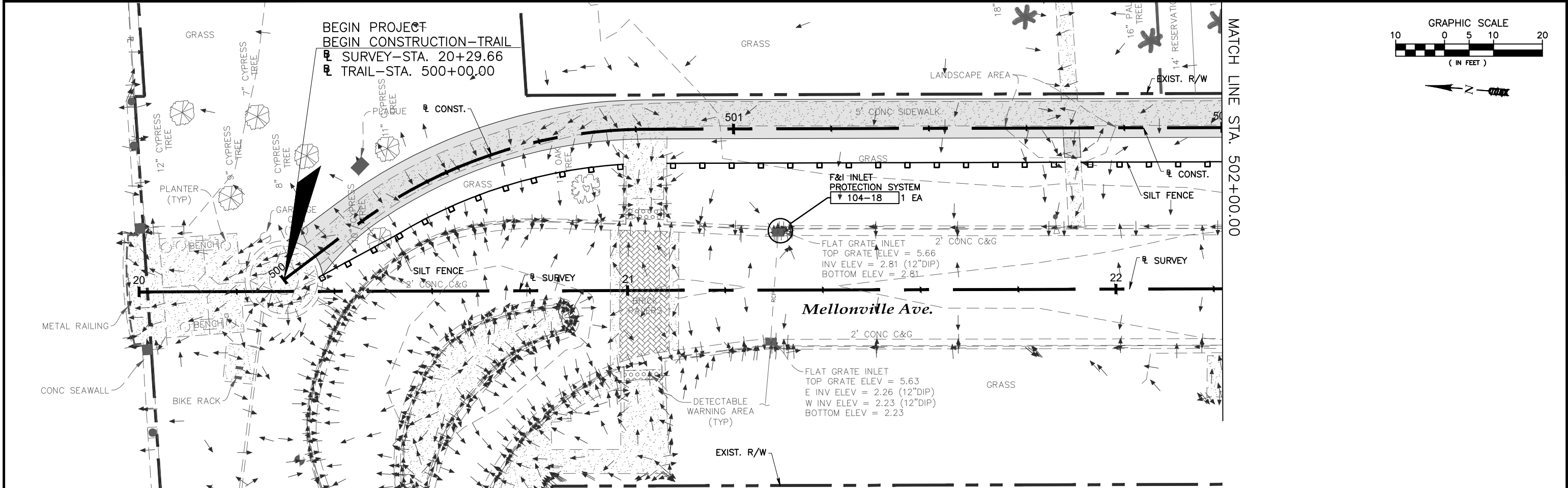
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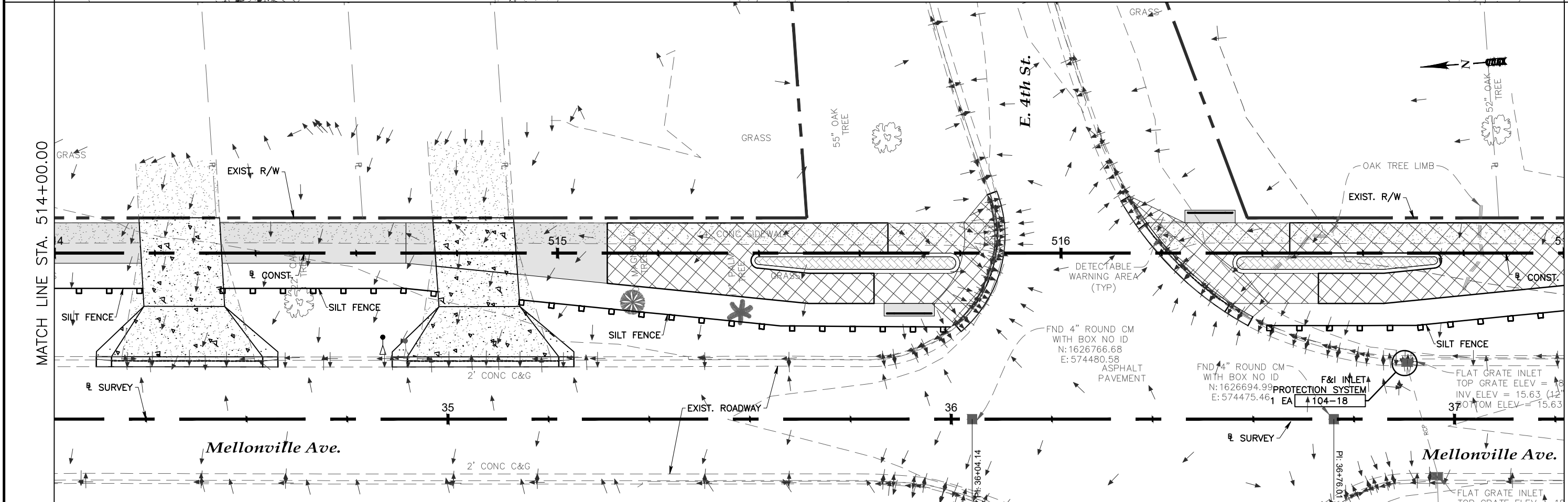
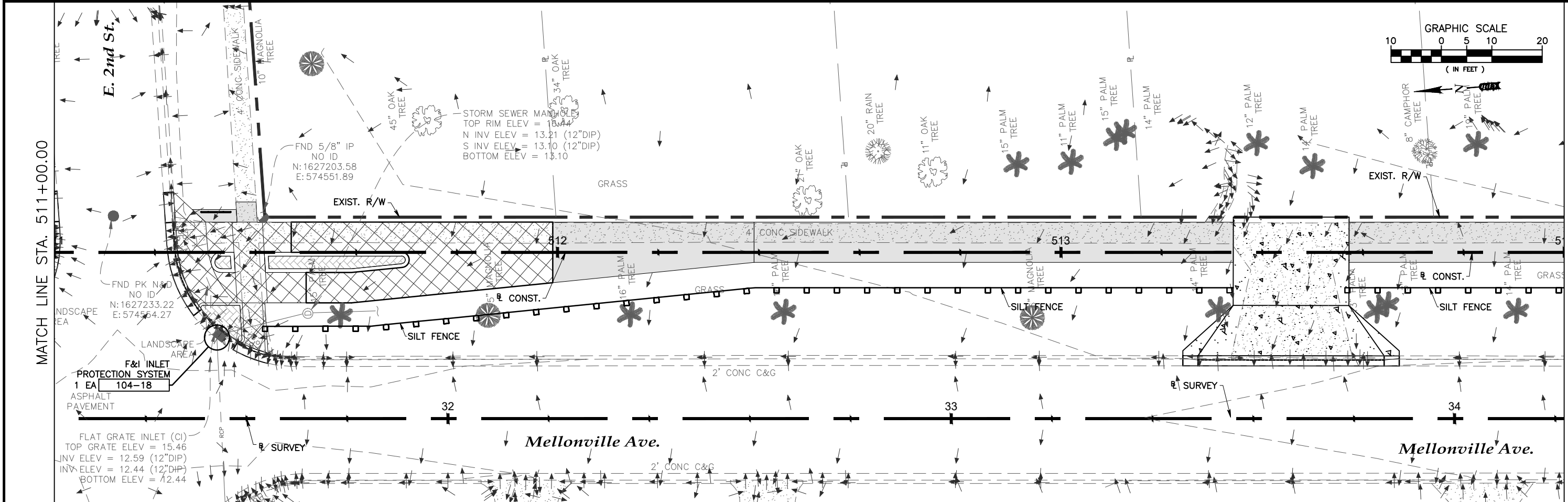
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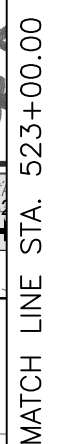
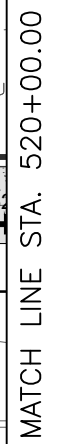
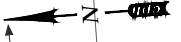
" I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND AND SHALL COMPLY WITH THE TERMS AND CONDITIONS OF THE STATE OF FLORIDA GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES AND THIS STORMWATER POLLUTION PREVENTION PLAN THEREUNDER."

TELEPHONE #: _____ DATE: _____

No. Date Revision By				No. Date Revision By				<div></div> <div>A Full Service A & E Firm</div> <div>Architects M / E / P Engineers Planners Environmental Surveyors Landscape Architects Traffic/Transportation</div> <div>www.cphcorp.com</div>	<div>Offices In:</div> <ul style="list-style-type: none">• Florida• Puerto Rico• Connecticut• Maryland• Texas	Designed by:	CJT	Date: 05/09/2024	<div>Lake Monroe Trail Loop</div> <div>Seminole County</div> <div>Phase I</div>	Plans Prepared By:	CPH, Inc.		<div>Stormwater Pollution Prevention Plan Notes</div>	Sheet No. <div>109</div>
<div>△</div>				<div>△</div>						Drawn by:	AM	Scale: AS NOTED						
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											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				







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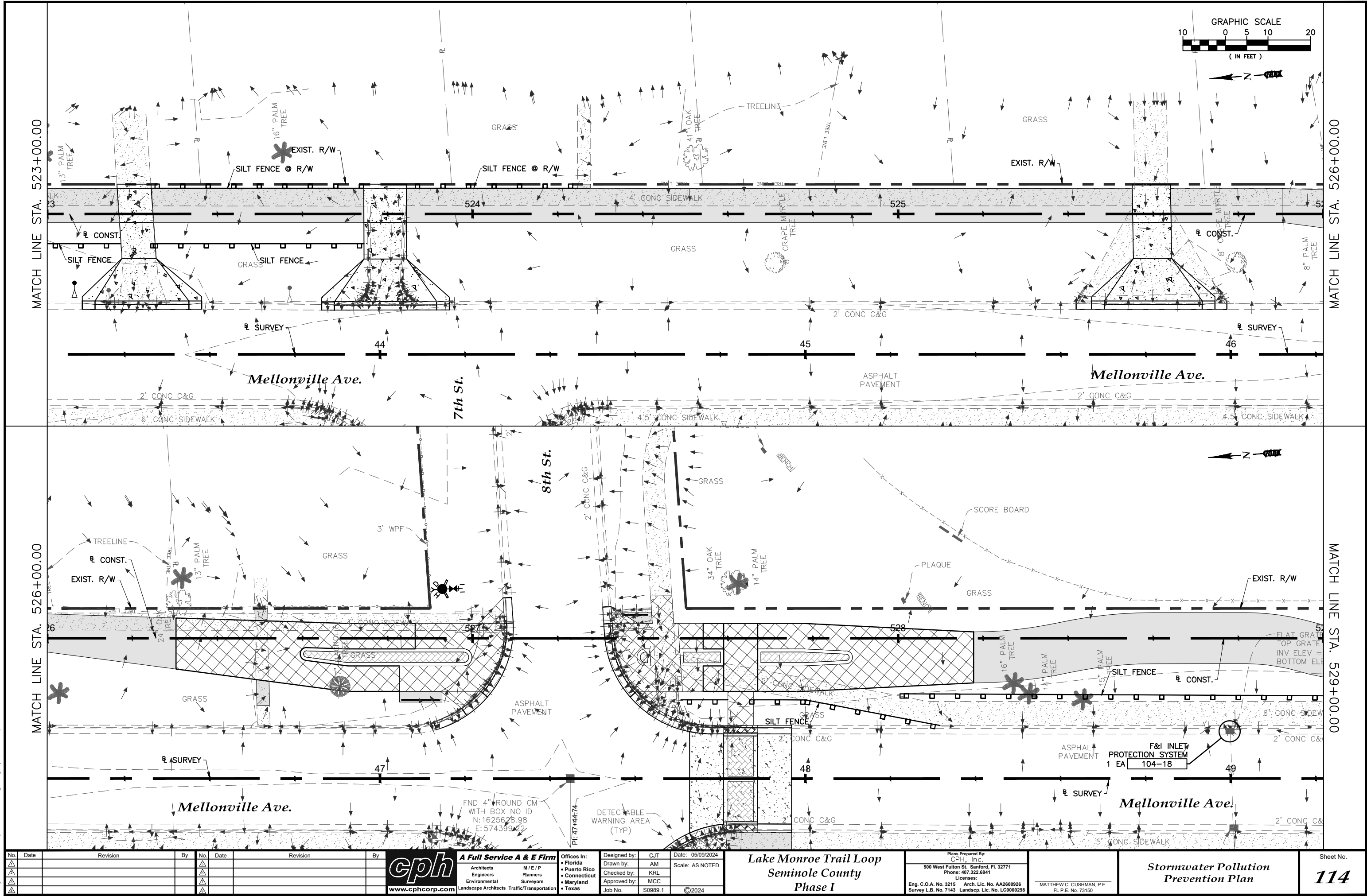
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Stormwater Pollution Prevention Plan

Sheet No.

113

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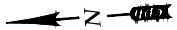
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Stormwater Pollution
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114



MATCH LINE STA. 529+00.00

MATCH LINE STA. 532+00.00

Mellonville Ave.

Mellonville Ave.

MATCH LINE STA. 532+00.00

MATCH LINE STA. 535+00.00

Mellonville Ave.

Mellonville Ave.

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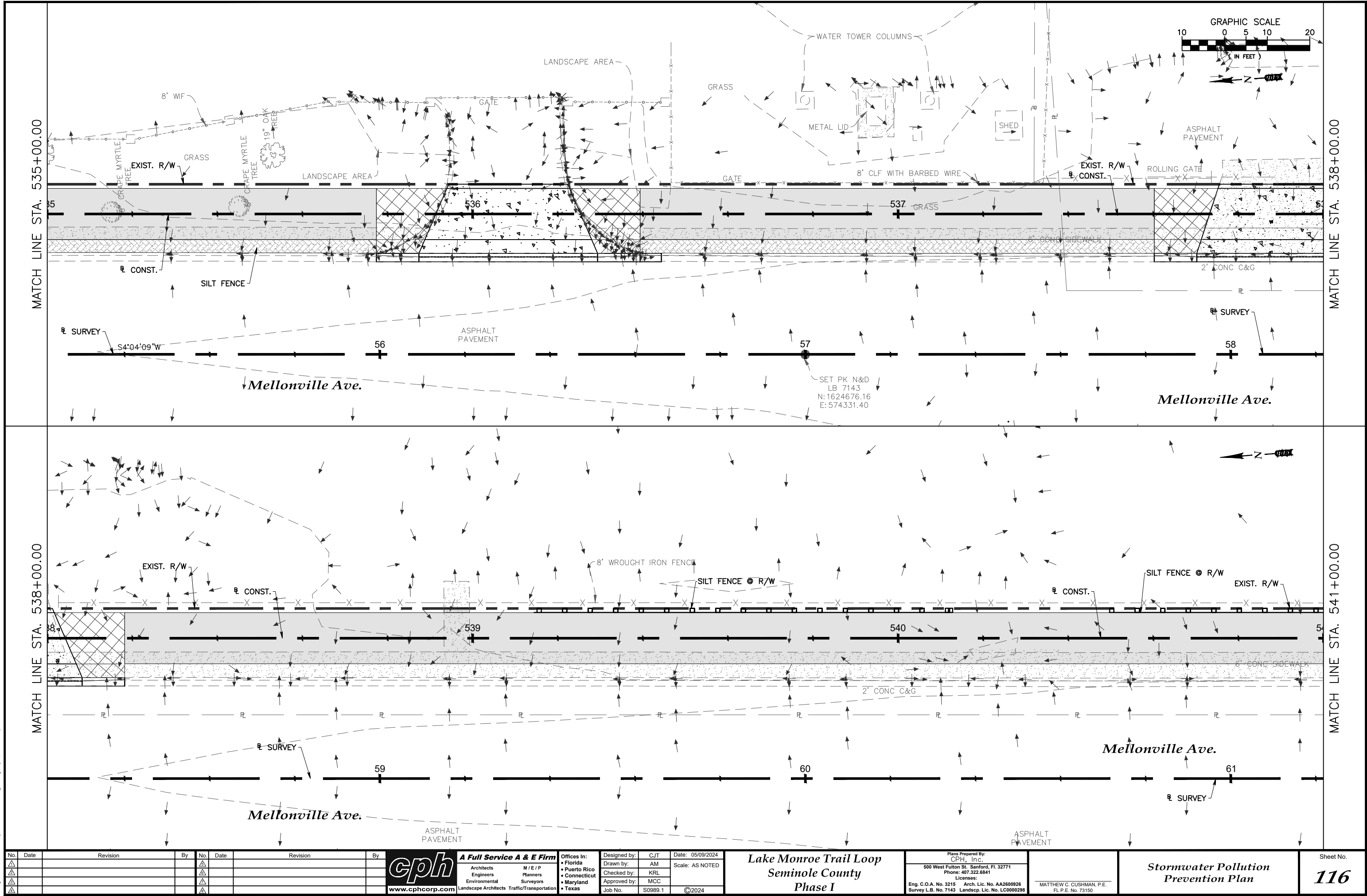
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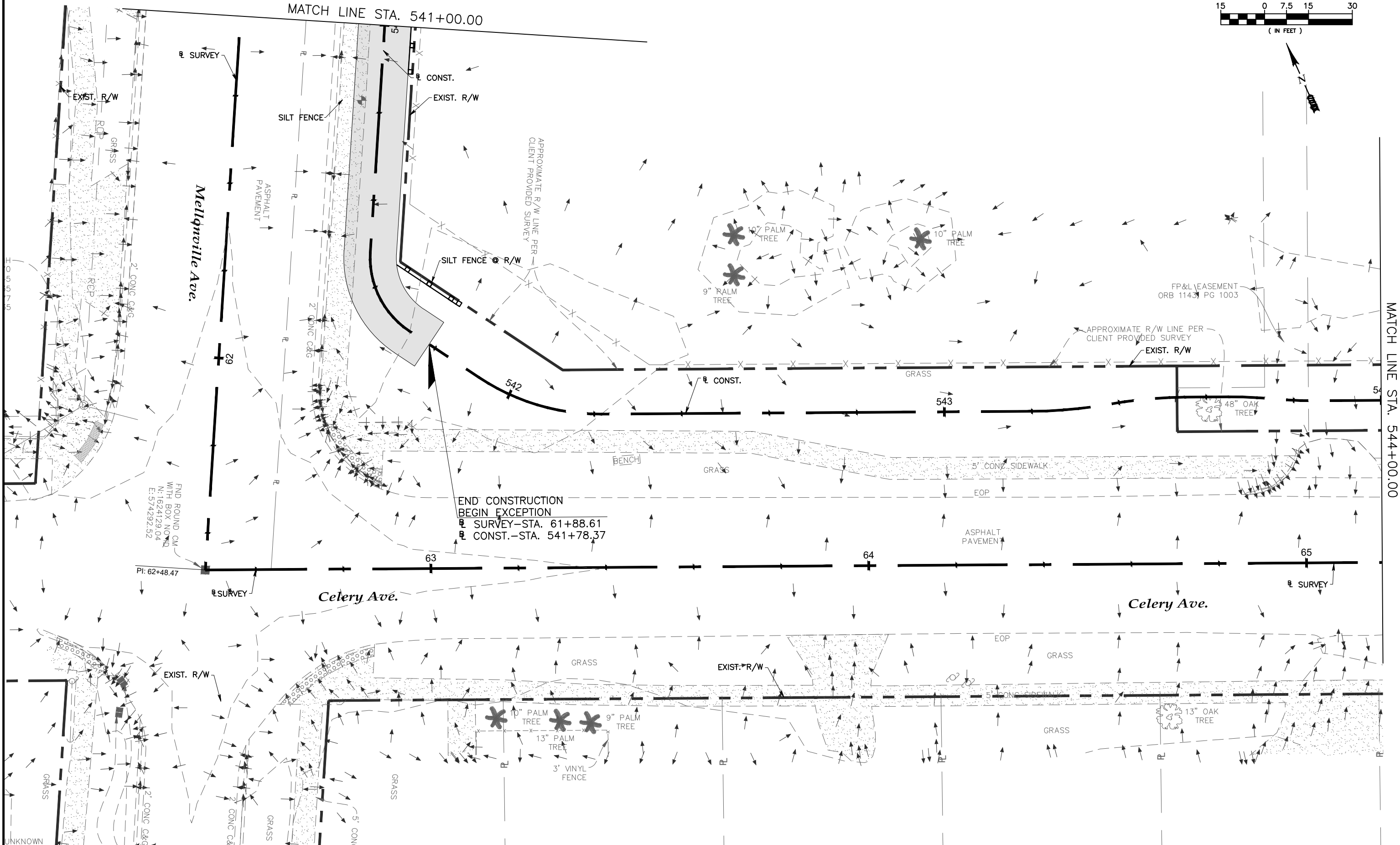
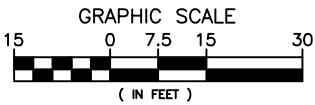
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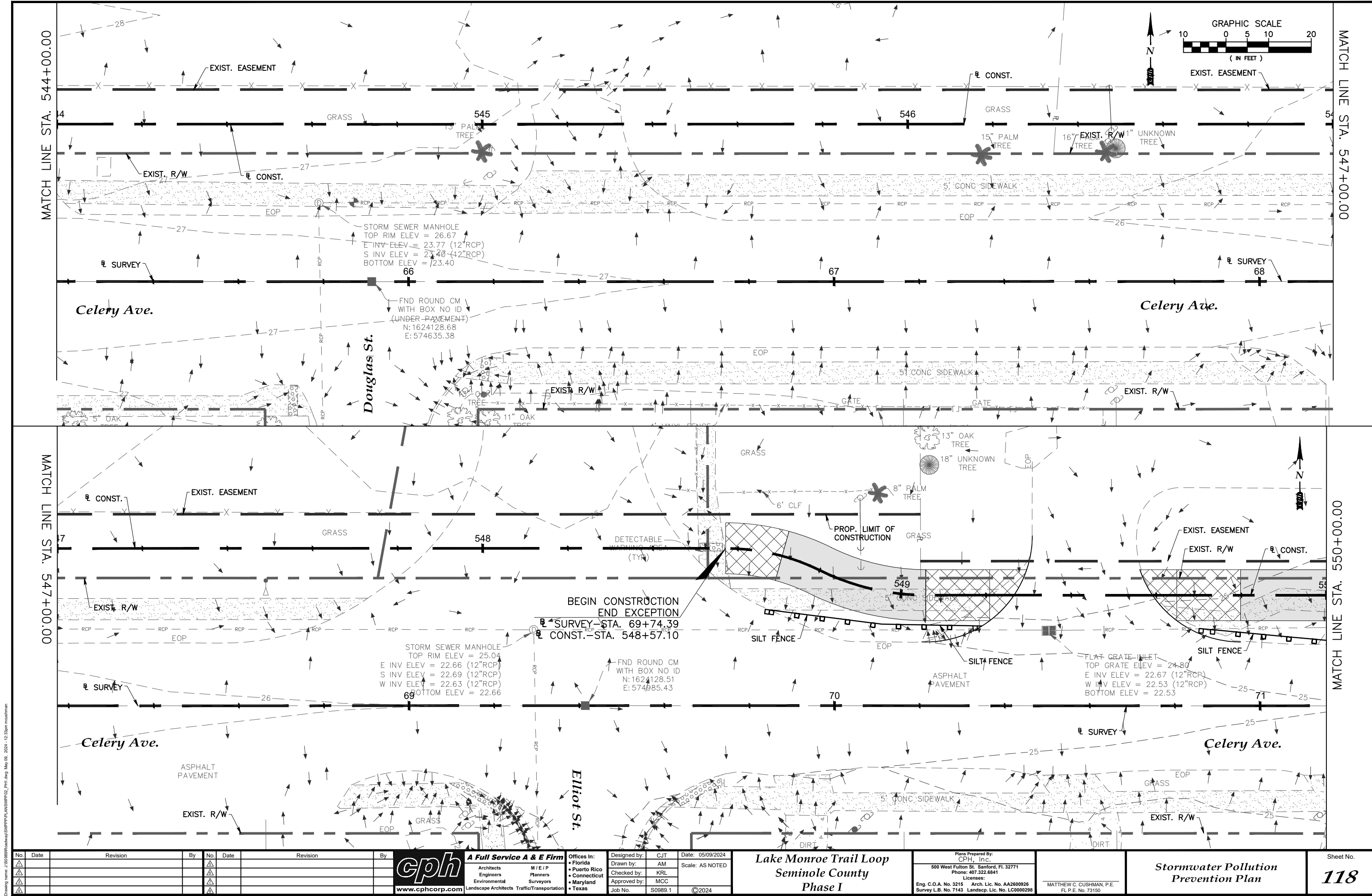
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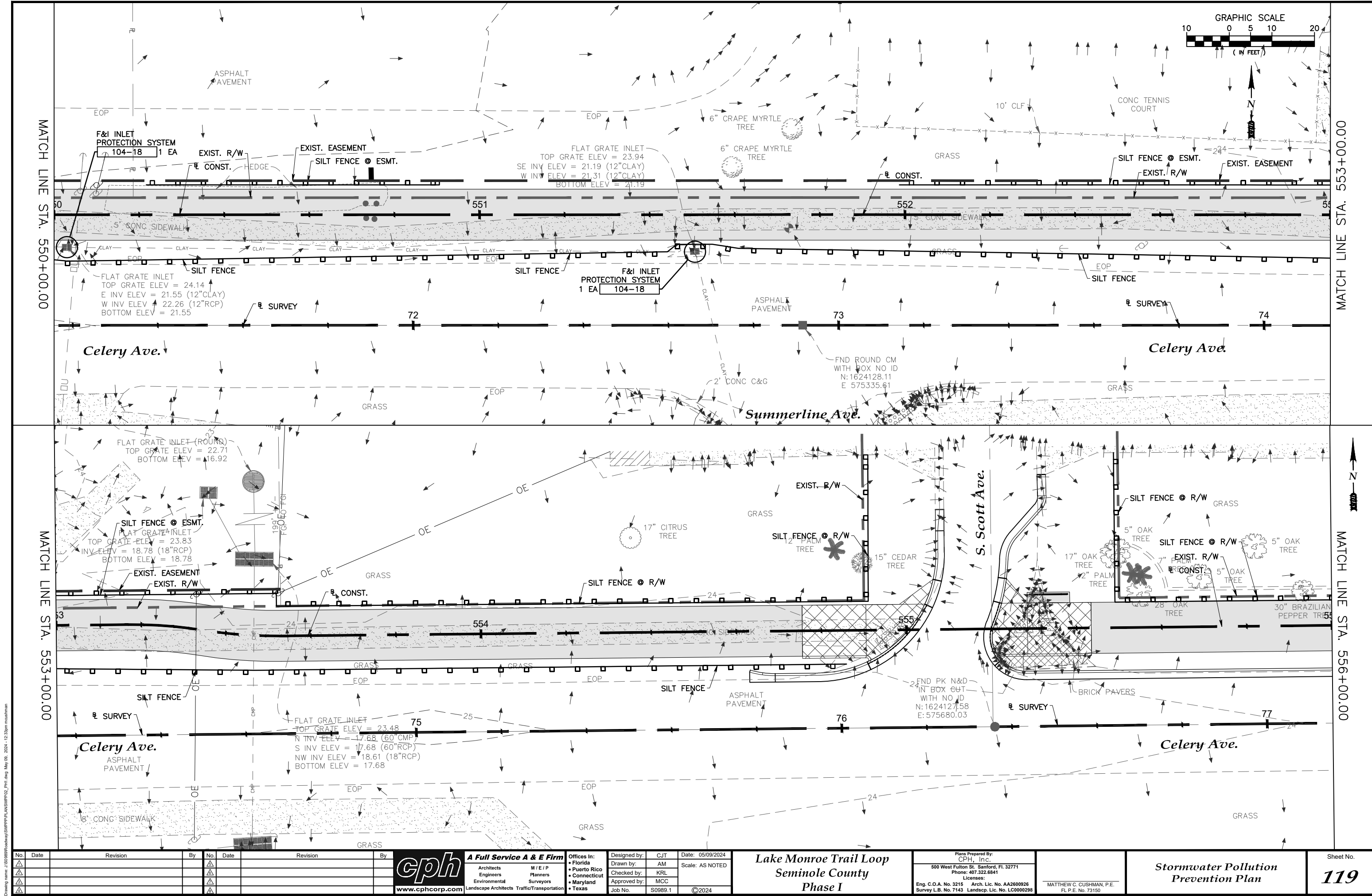
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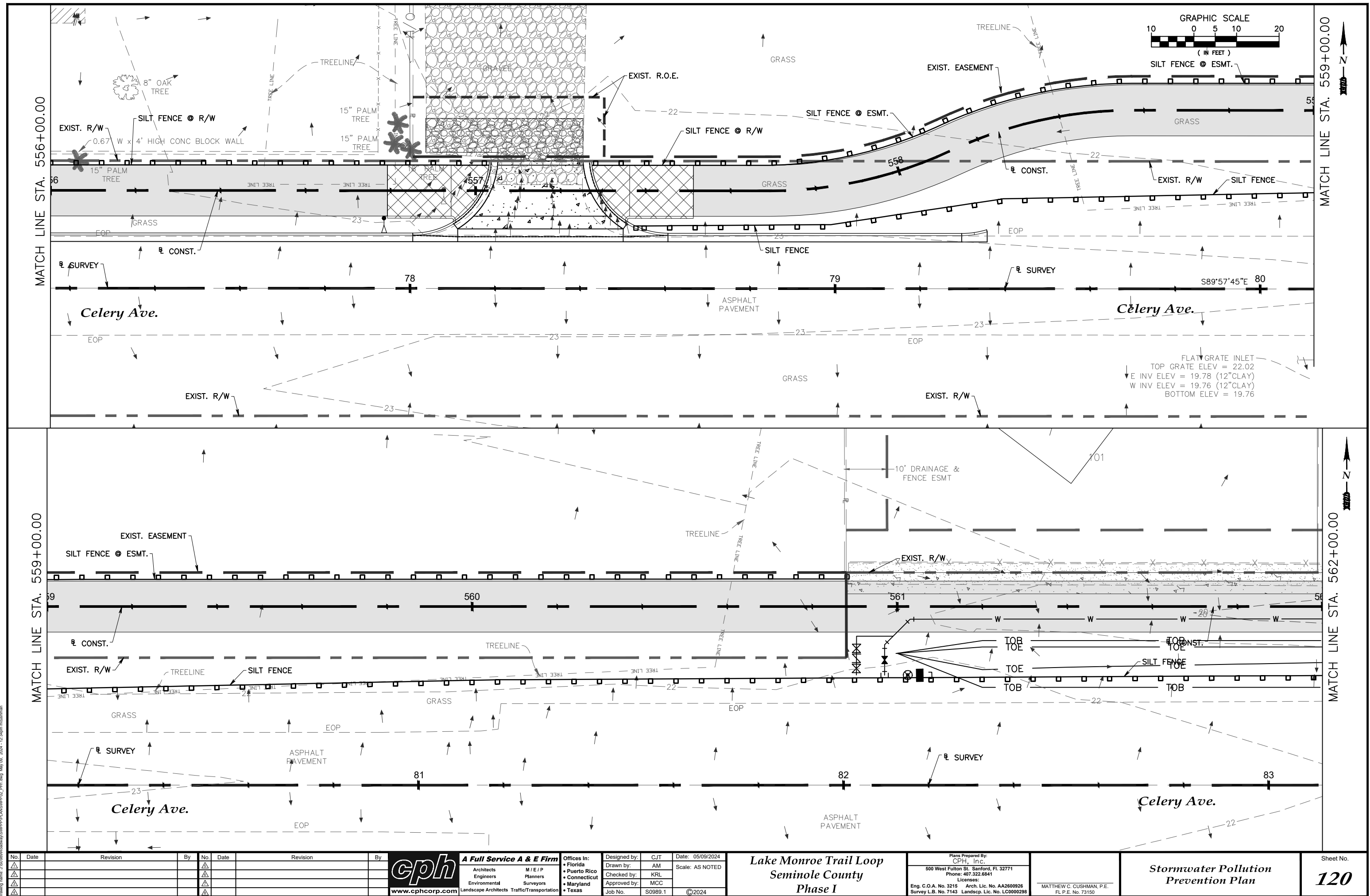
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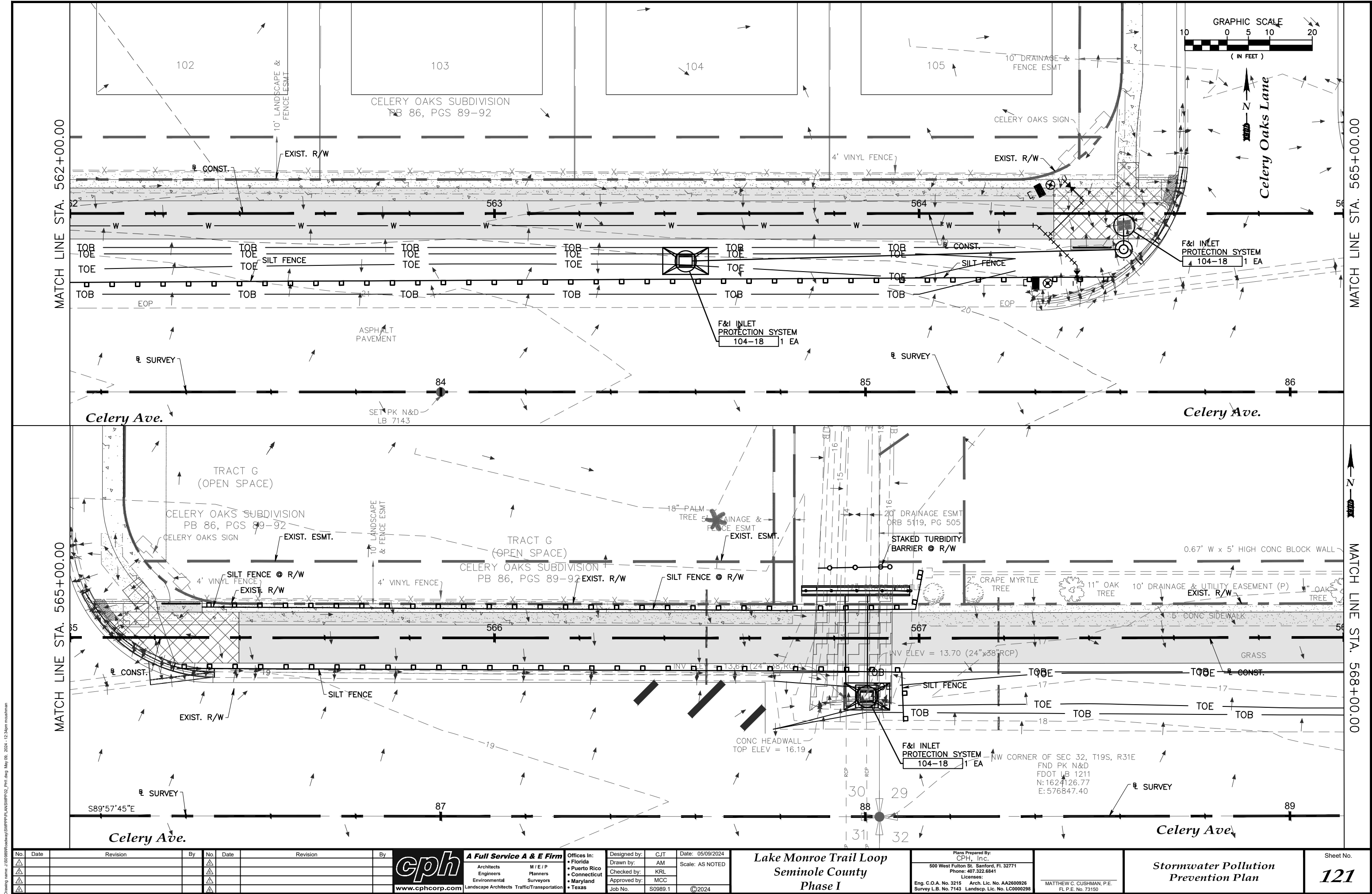
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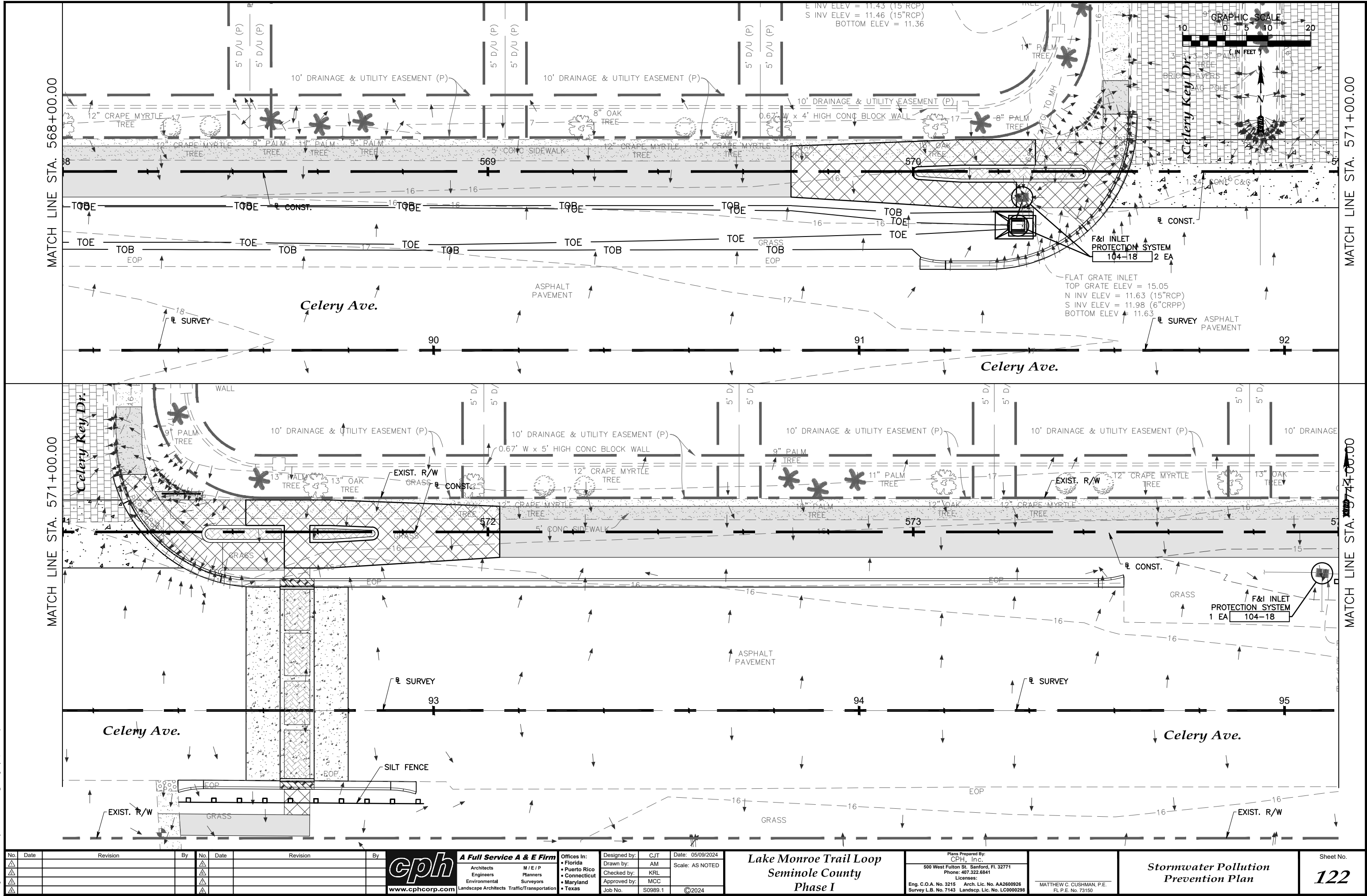
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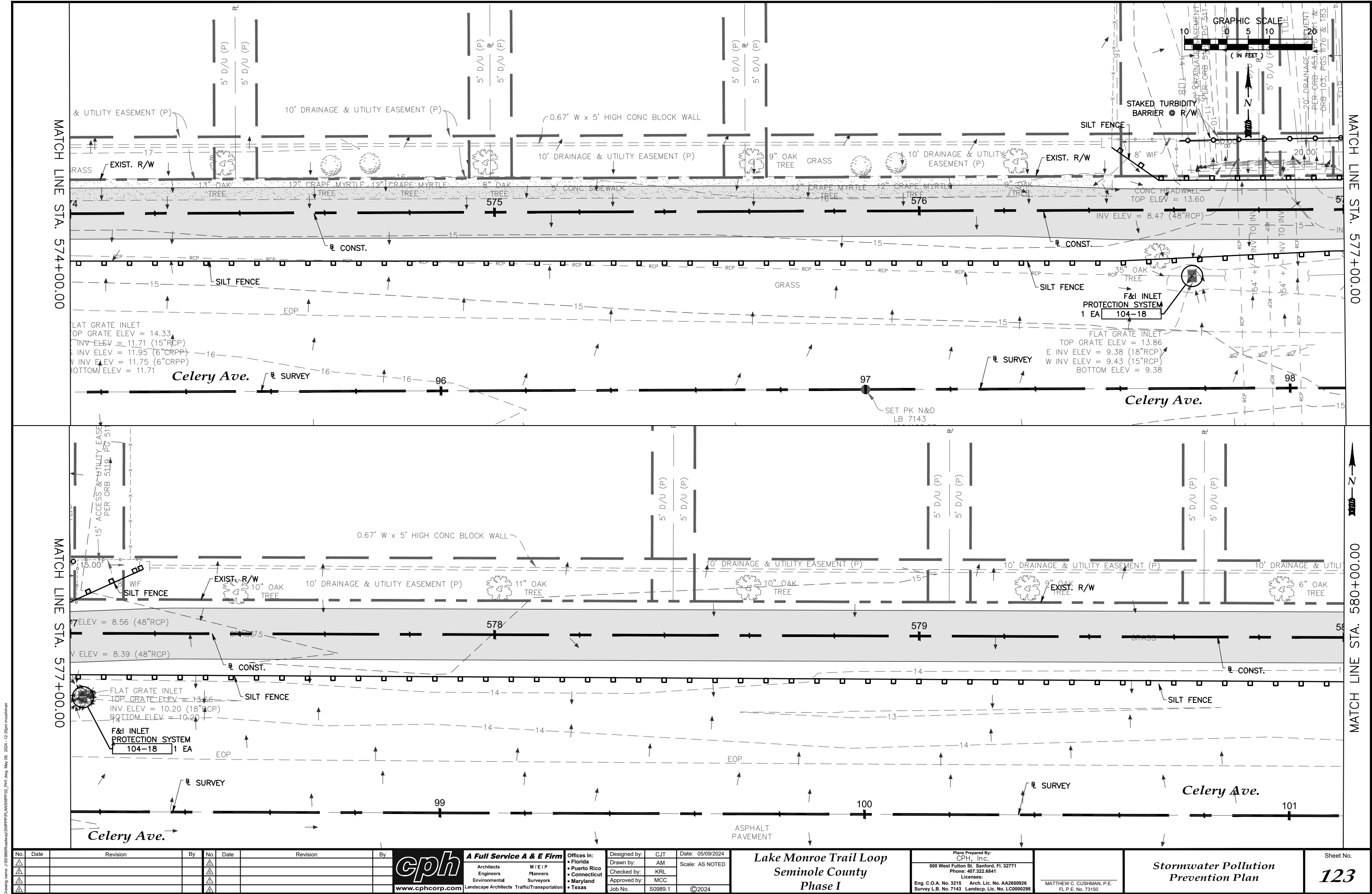
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Phase I

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

Stormwater Pollution
Prevention Plan

Sheet No.
122



Drawing name: J:\S0989\Roadway\SWPPP\PLANS\SWPPP2_P1.dwg May 09, 2024, 12:35pm mshahman

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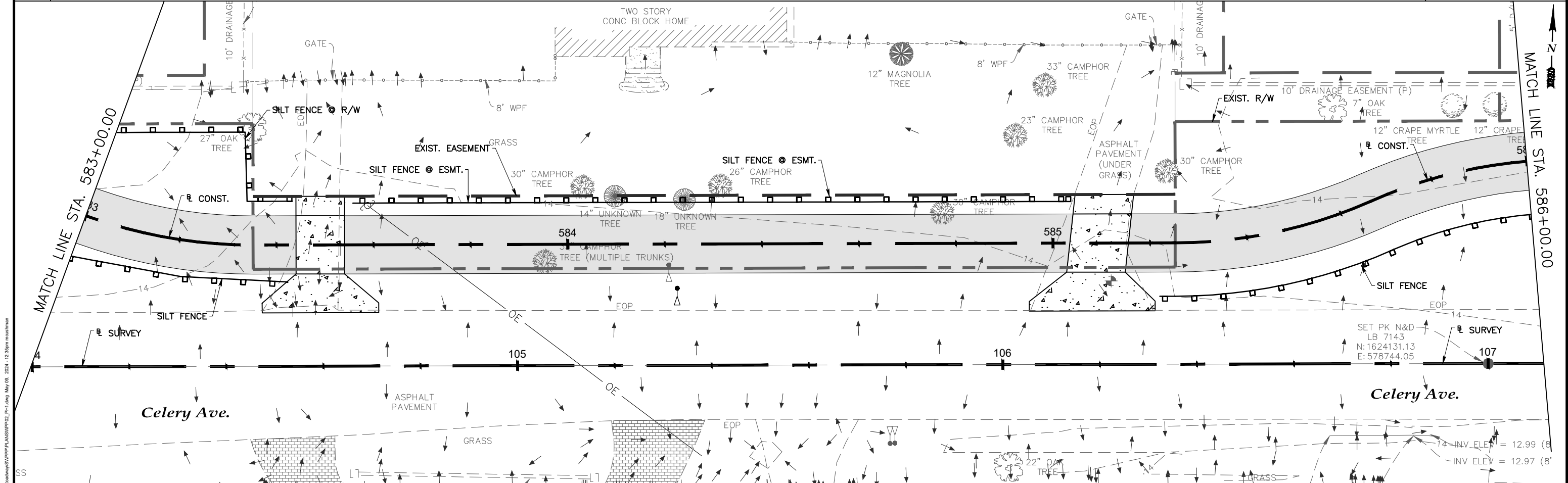
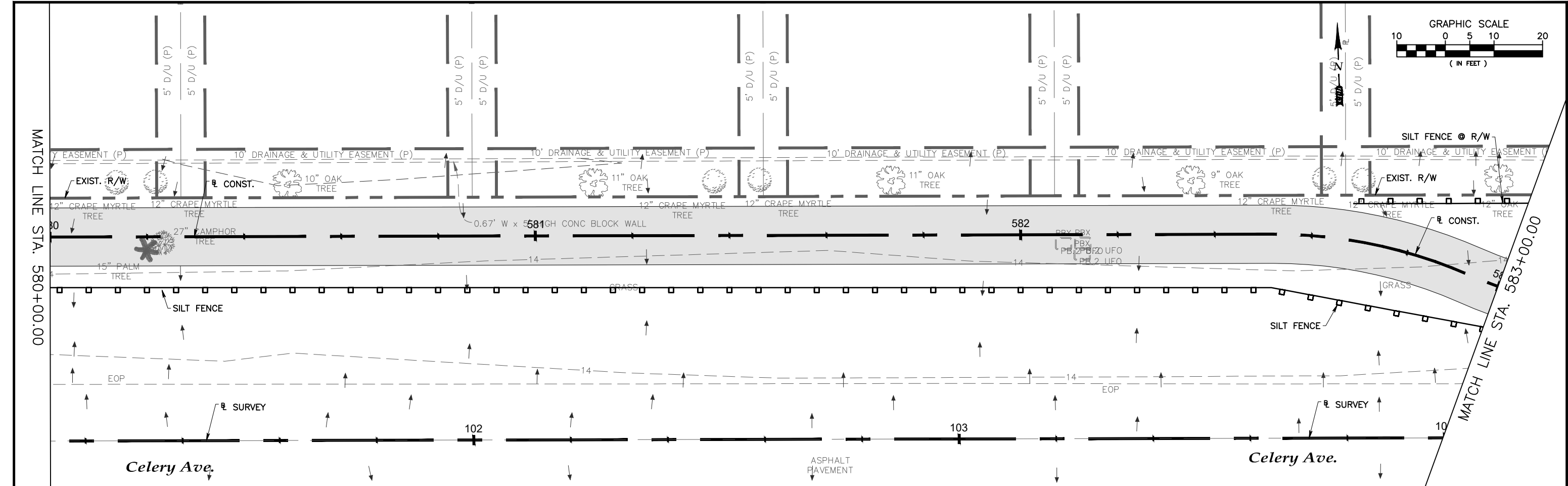
Lake Monroe Trail Loop
Seminole County
Phase I

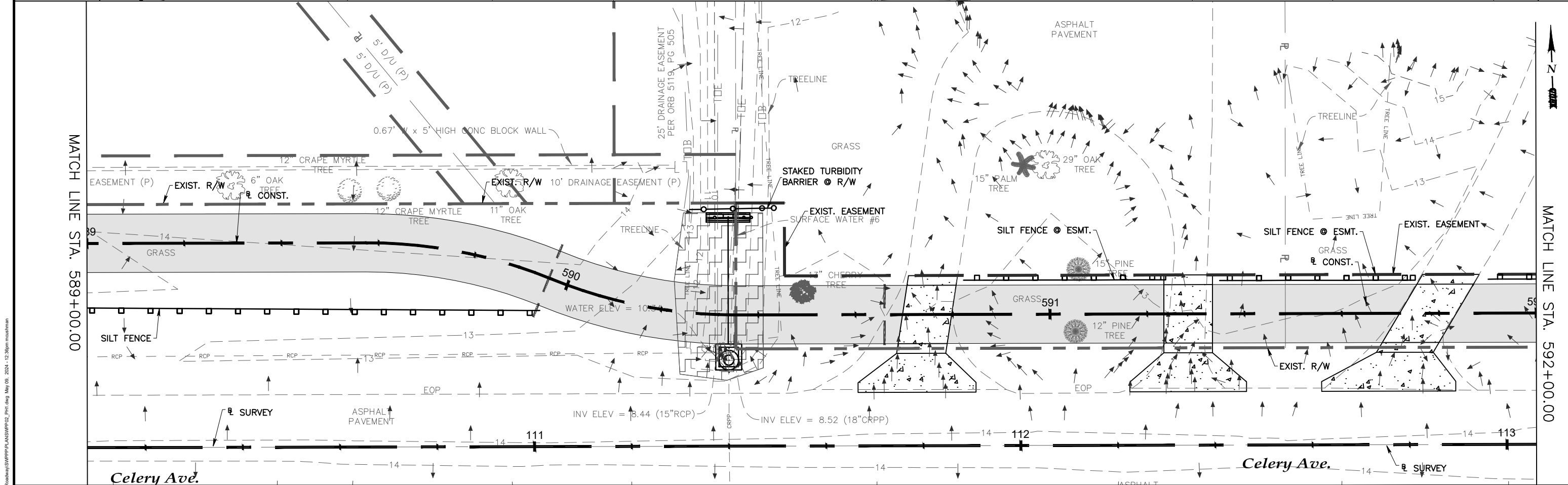
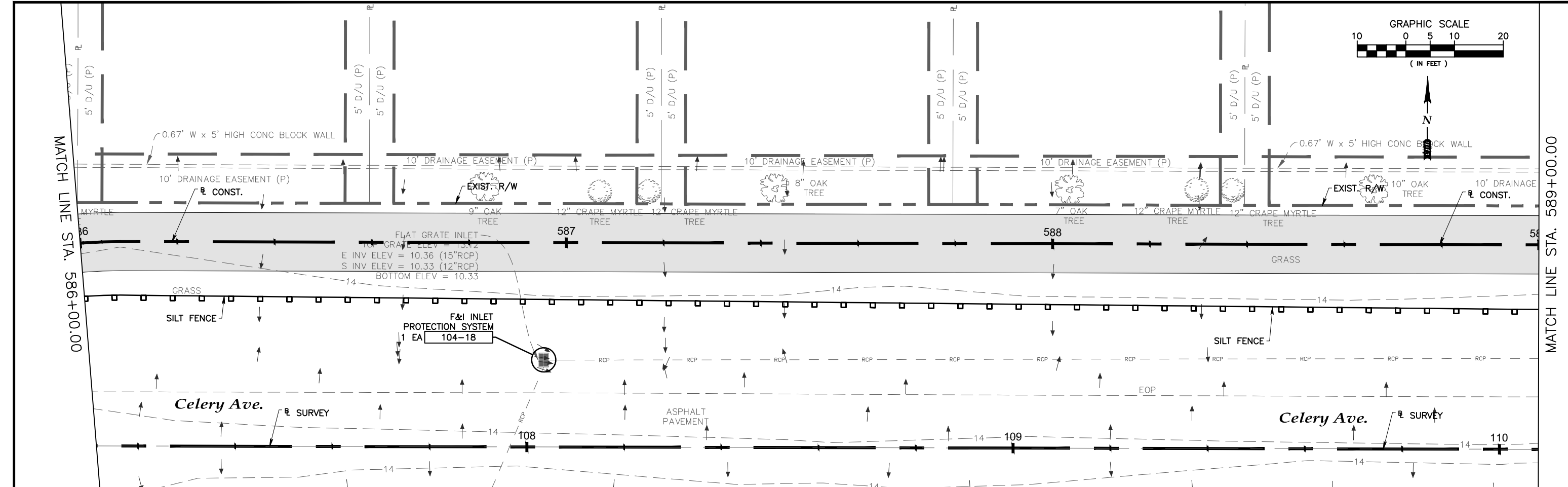
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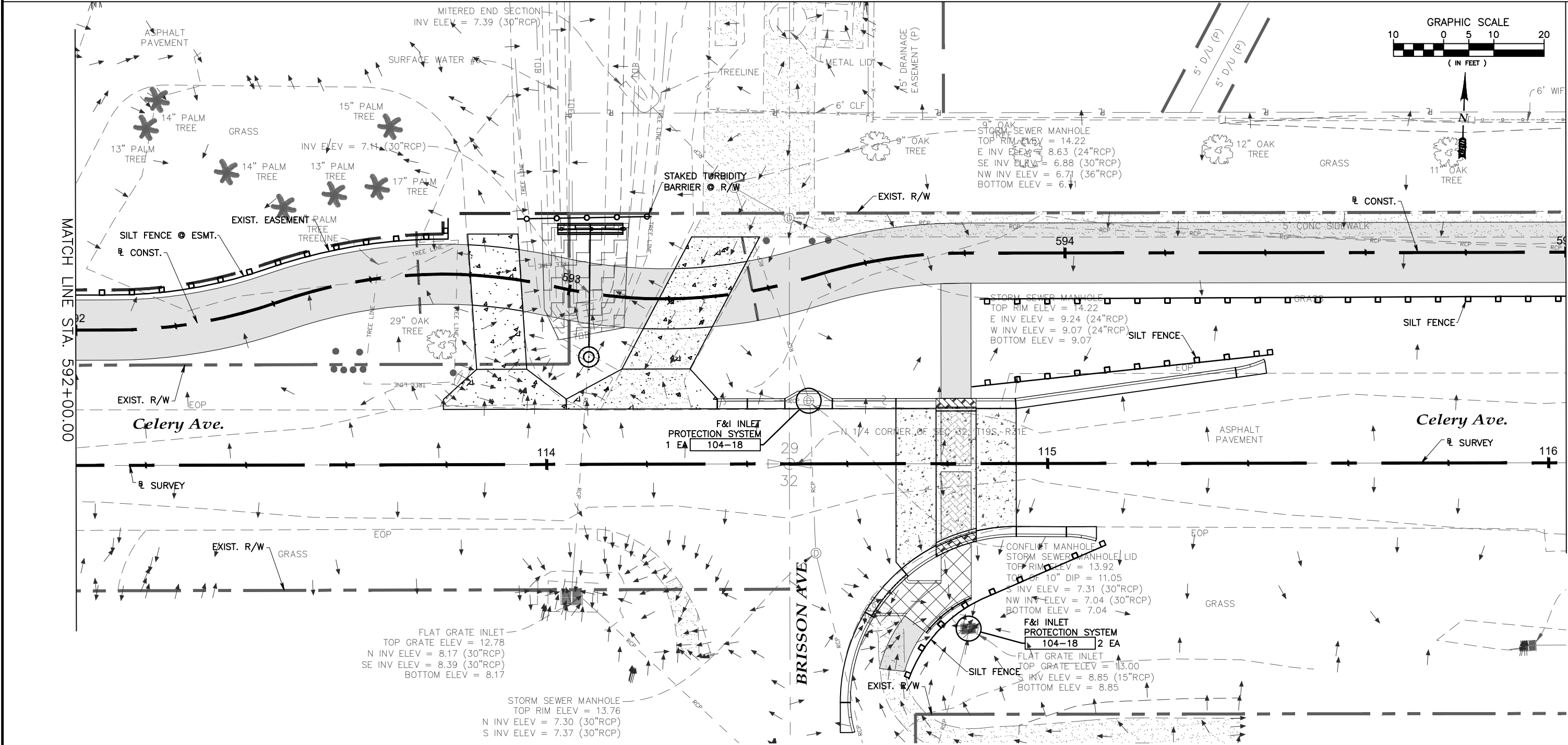
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Stormwater Pollution
Prevention Plan

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Lake Monroe Trail Loop
Seminole County
Phase I

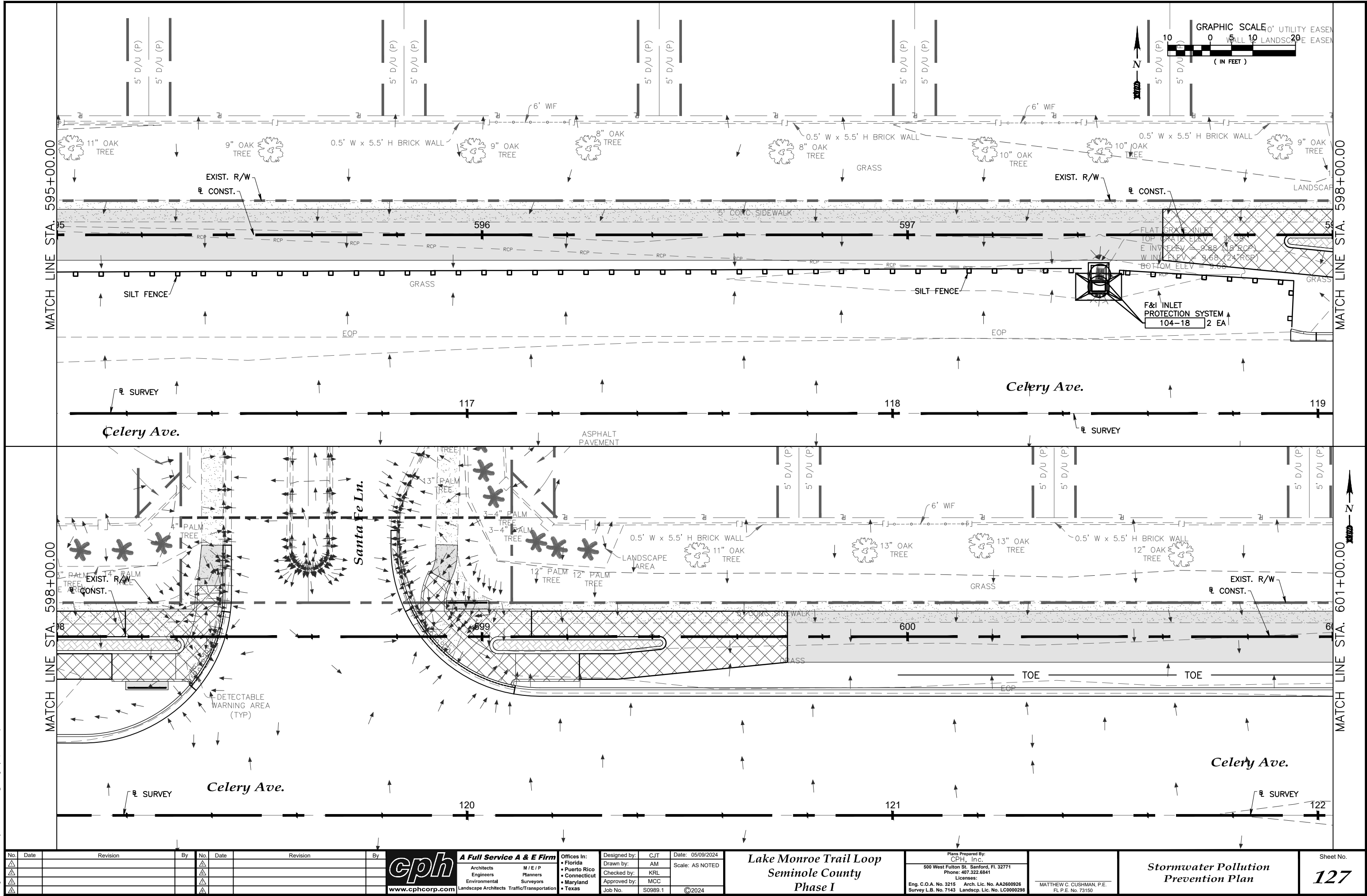
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Stormwater Pollution
Prevention Plan

Sheet No.
126

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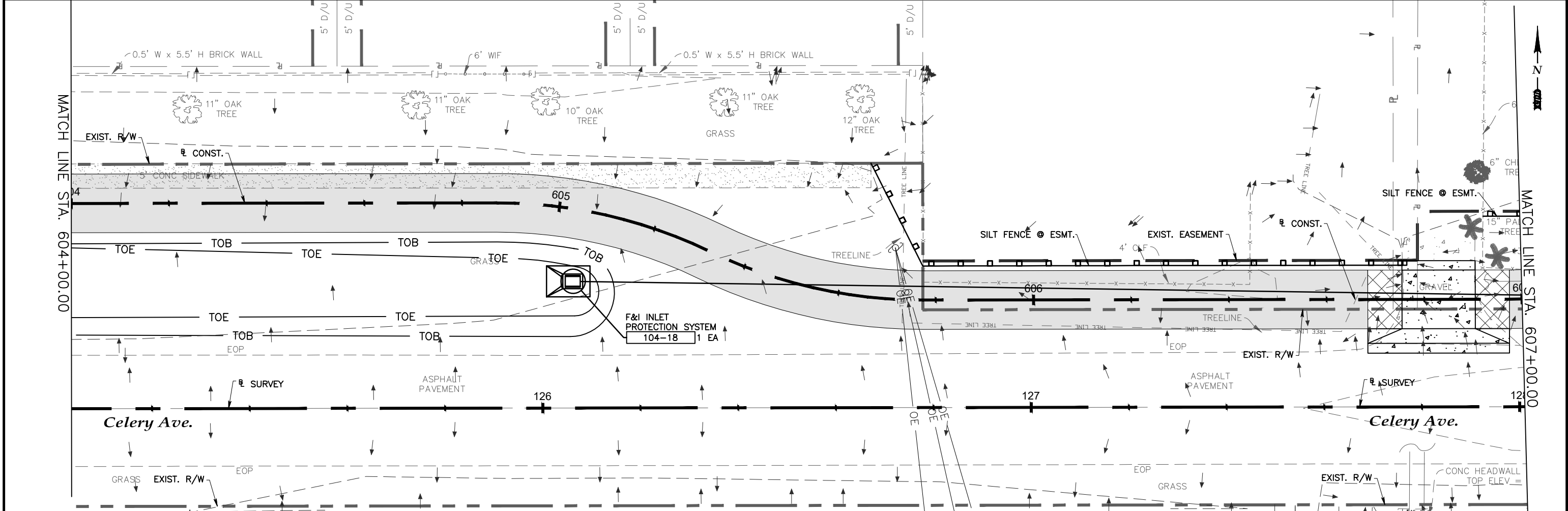
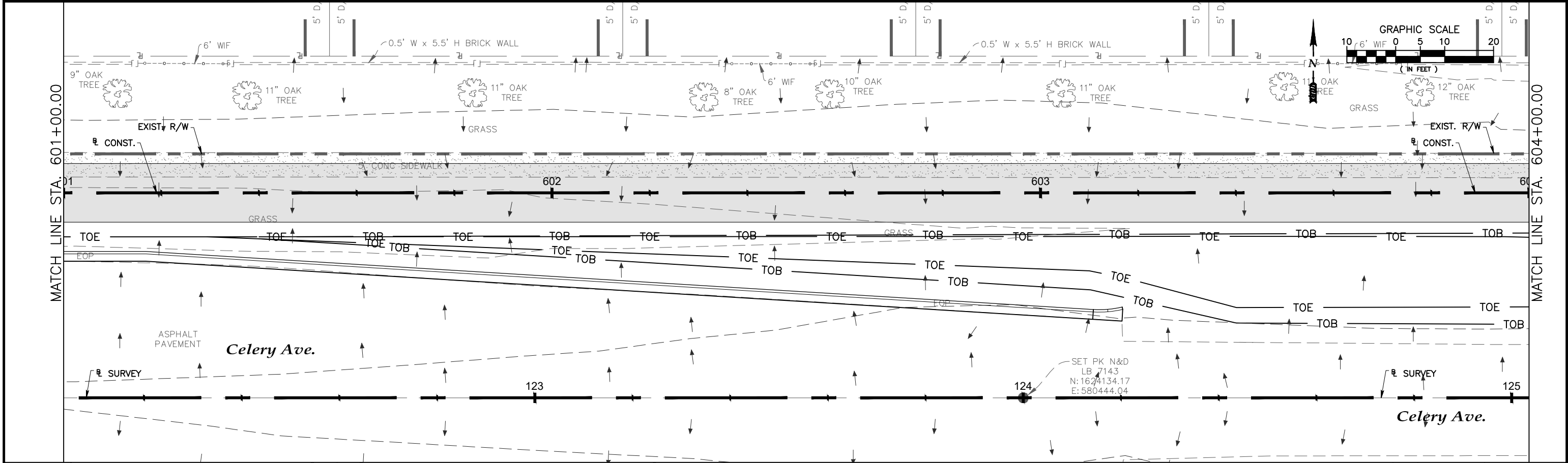
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FL P.E. No. 73150

Stormwater Pollution
Prevention Plan

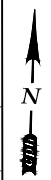
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127



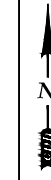
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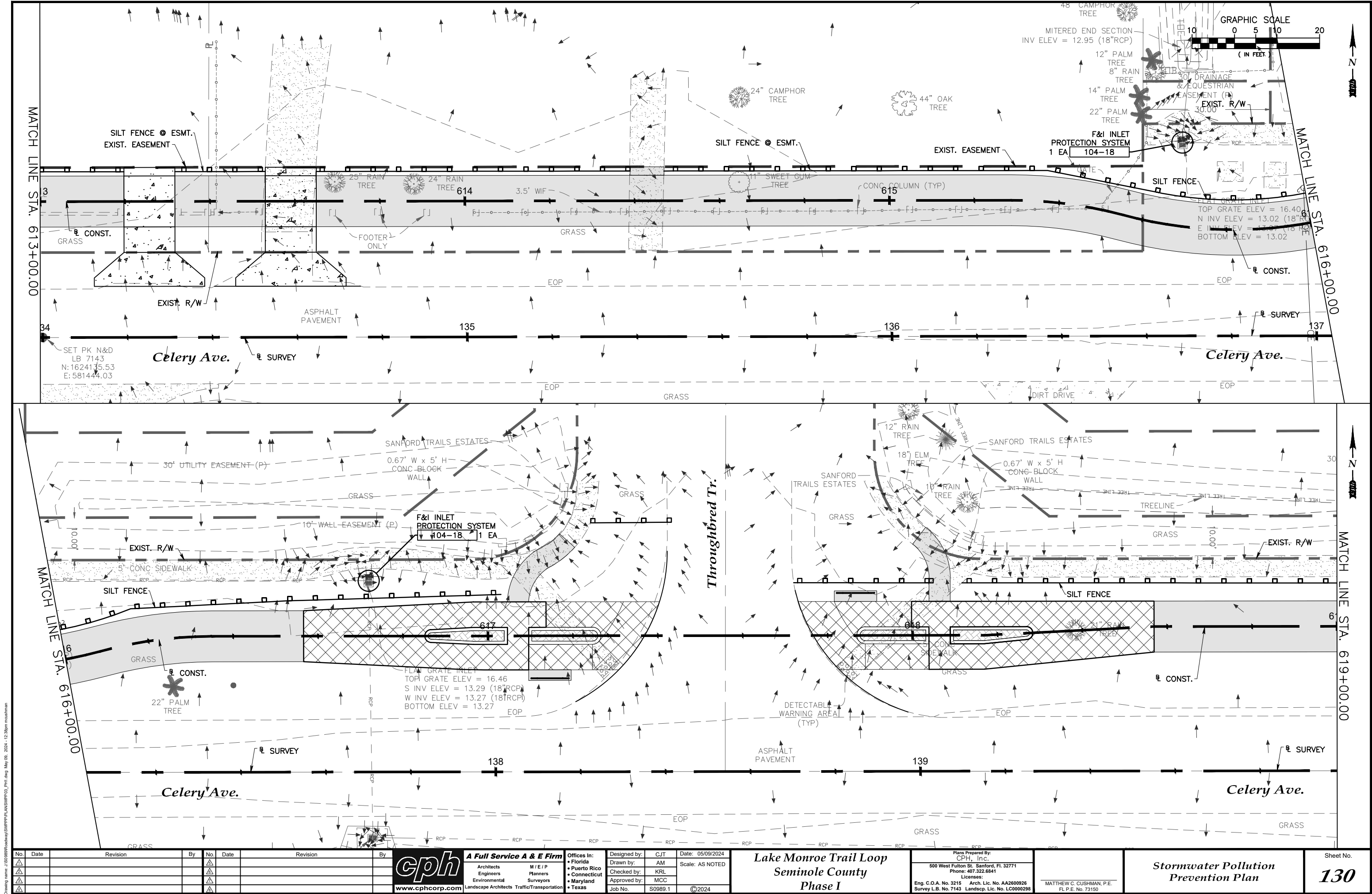
MATCH LINE STA. 610+00.00



MATCH LINE STA. 613+00.00



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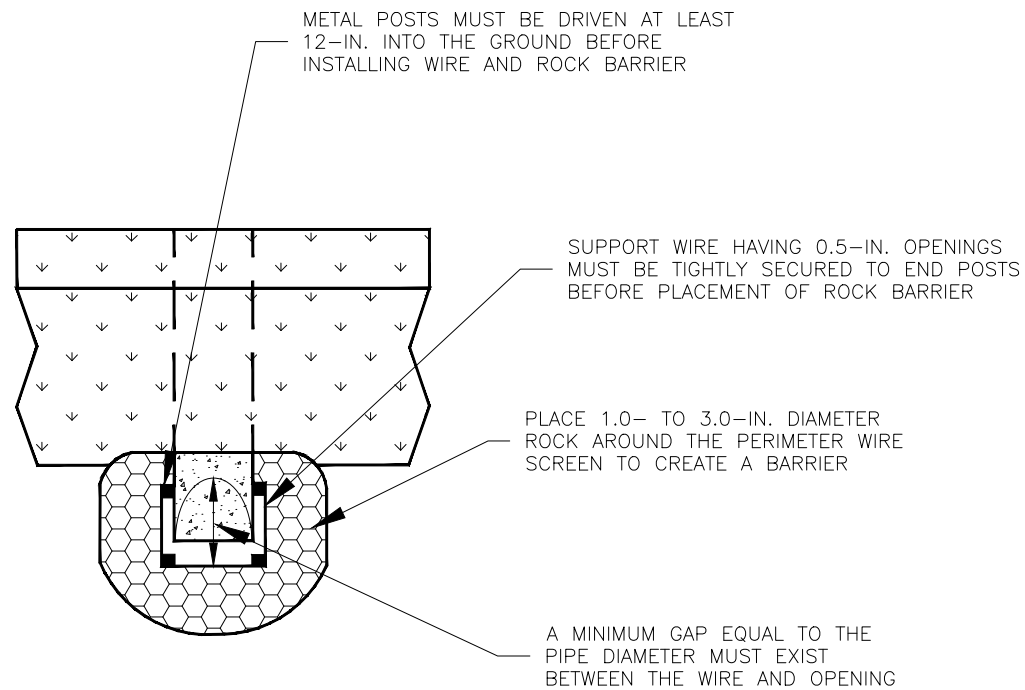
Lake Monroe Trail Loop
Seminole County
Phase I

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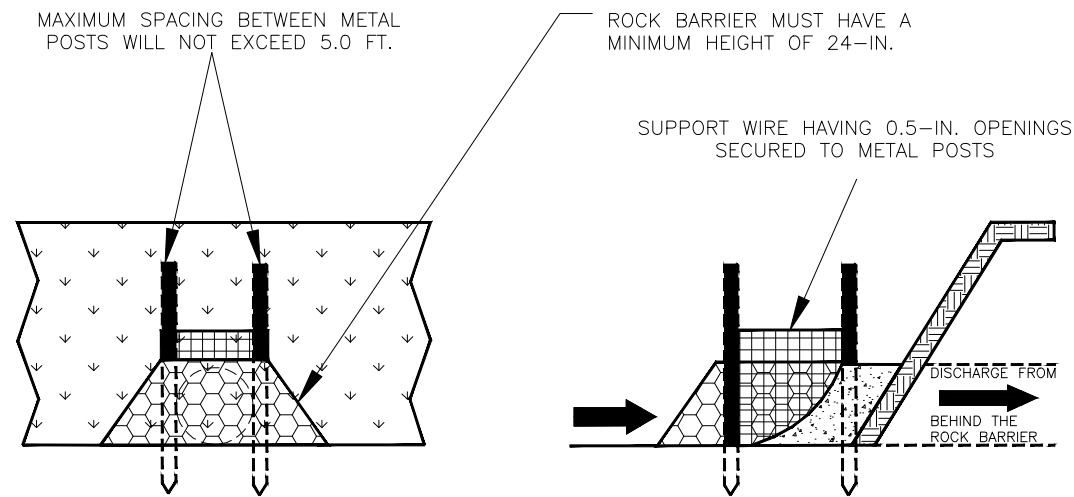
MATTHEW C. CUSHMAN, P.E.
FL P.E. No. 73150

Stormwater Pollution
Prevention Plan

Sheet No.
130



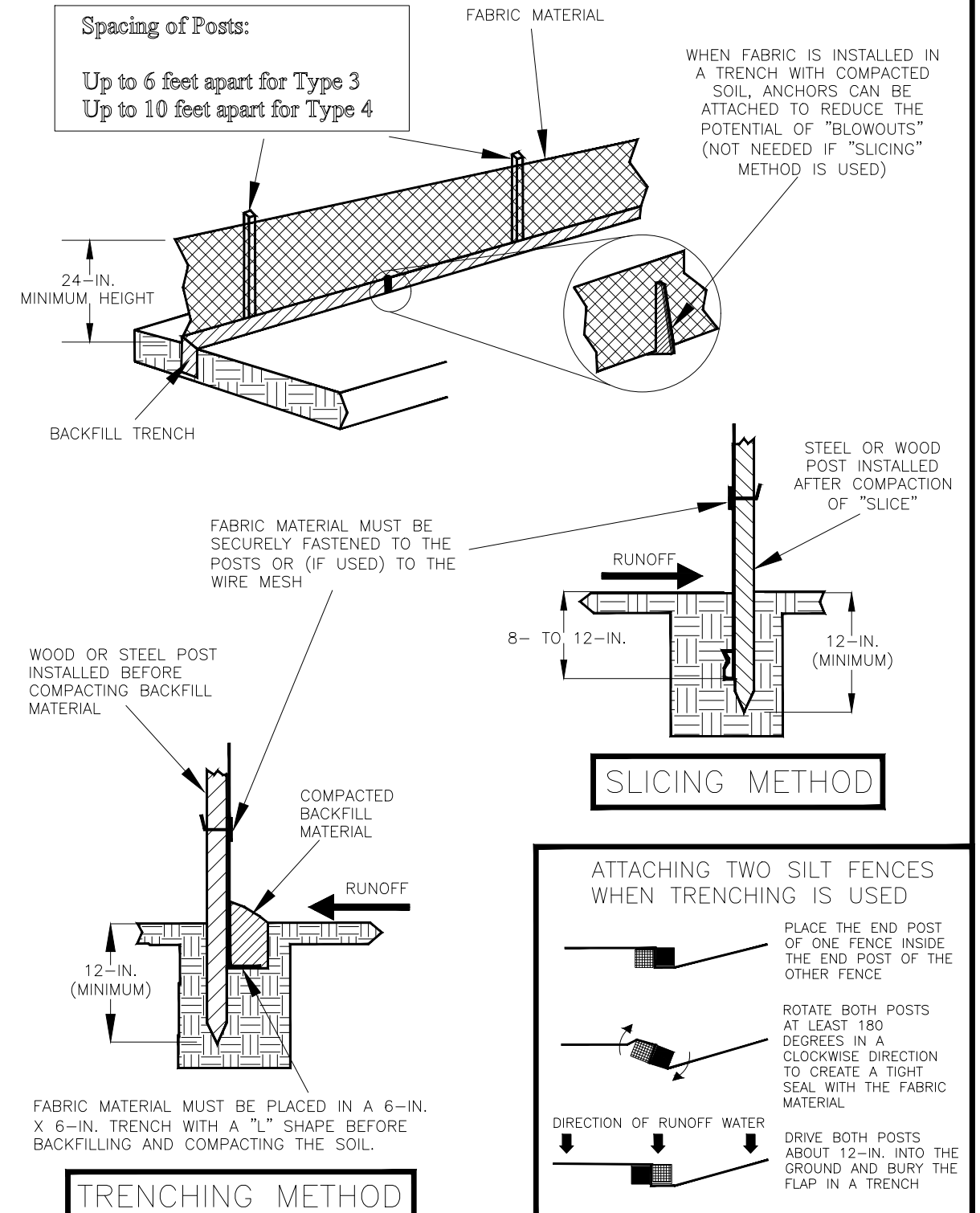
TOP VIEW



FRONT VIEW

SIDE VIEW

ROCK BARRIER OUTLET STRUCTURE FOR CULVERTS



SILT FENCE BARRIER INSTALLATION

No.	Date	Revision	By	No.	Date	Revision	By
1				2			
2				3			
3				4			
4				5			



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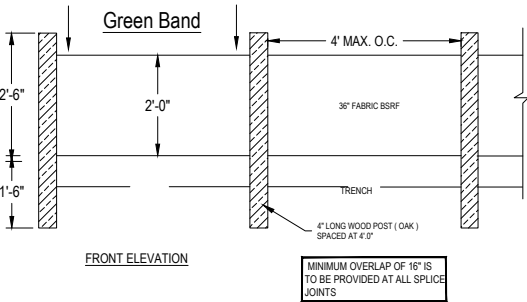
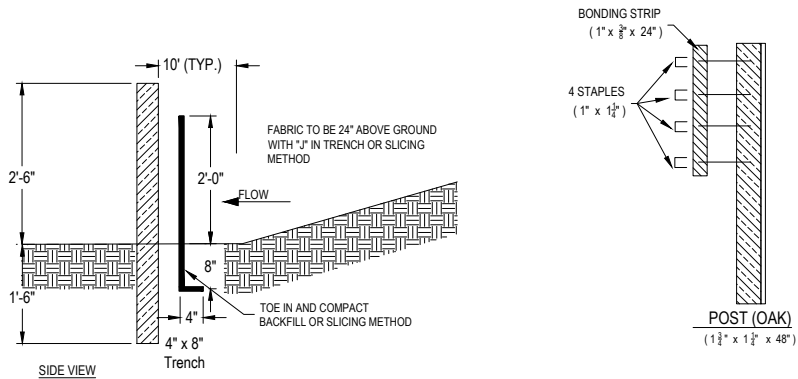
Lake Monroe Trail Loop
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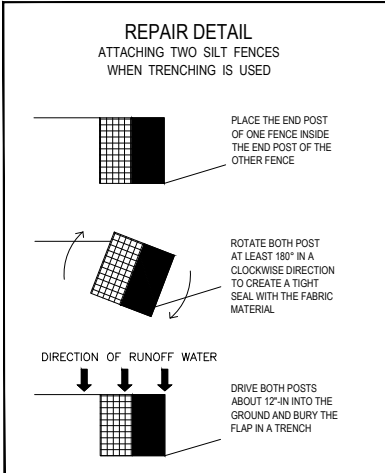
Stormwater Pollution
Prevention Details

Sheet No.
132

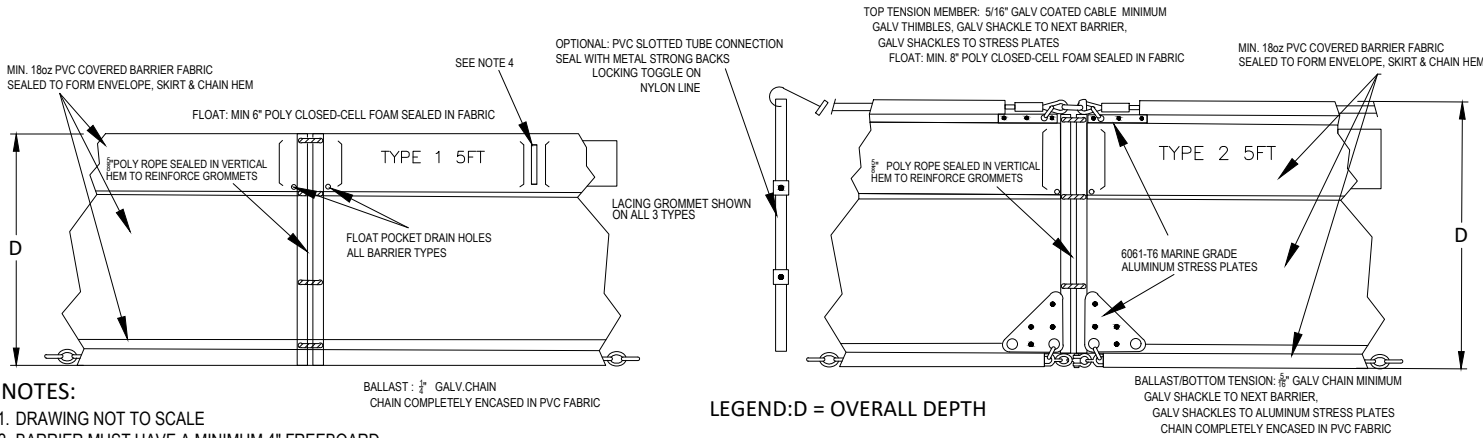
Approved Alternate
FDOT - Staked Turbidity Barrier
State of Florida Erosion & Sediment Control Designer & Reviewer Manual
Belted Silt Retention Fence (Priority 1)



BELTED SILT RETENTION FENCE (BSRF)
Priority 1 - Green Band

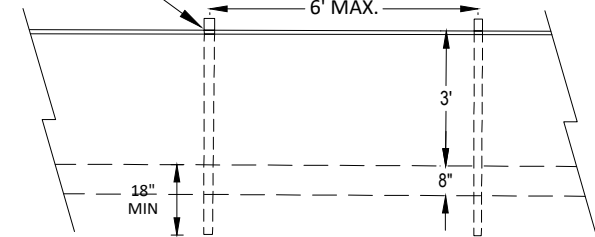


STAKED TURBIDITY BARRIER INSTALLATION

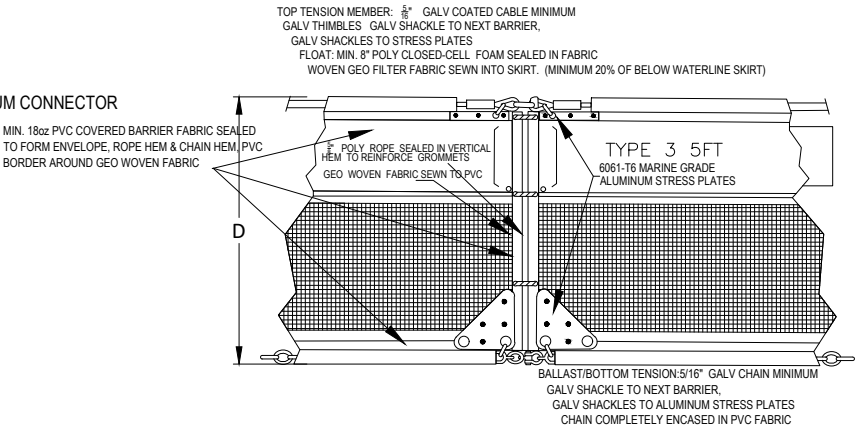


- NOTES:**
- DRAWING NOT TO SCALE
 - BARRIER MUST HAVE A MINIMUM 4" FREEBOARD
 - FLOATS, LACING GROMMET STRIP AND BALLAST CHAIN SEALED IN BARRIER FABRIC
 - VERTICAL SEALS BETWEEN FLOAT SEGMENTS
 - OVERALL DEPTH TO BE SPECIFIED BY ENGINEER
 - BARRIER TYPE AND DEPTH TO BE IMPRINTED ON FLOAT, MIN. 2 IN LETTERING
 - 18 oz. PVC COVERED BARRIER FABRIC MINIMUM
 - CONNECTIONS BY LACING GROMMETS, SLOTTED TUBE OR UNIVERSAL ALUMINUM CONNECTOR
 - FLOTATION SIZED FOR SKIRT DEPTH/WEIGHT

FABRIC DOUBLE-WRAPPED AROUND POST AT JOINT TO PREVENT GAPPING. POST AT LEAST 18" INTO GROUND



STAKED TURBIDITY BARRIER



2012 FDOT Design Standards
TURBIDITY BARRIERS

Sheet no
1 of 2

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1				1			
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3				3			
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Seminole County
Phase I

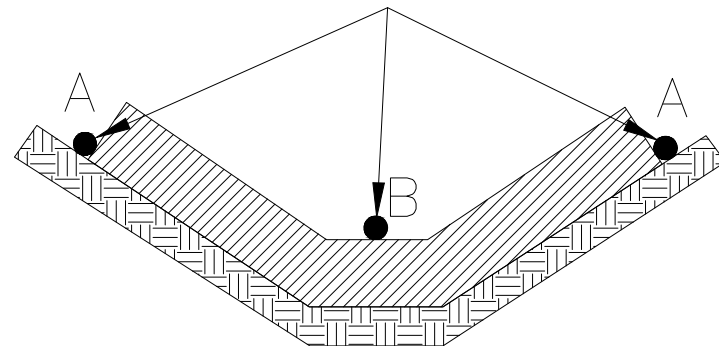
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Stormwater Pollution
Prevention Details

Sheet No.

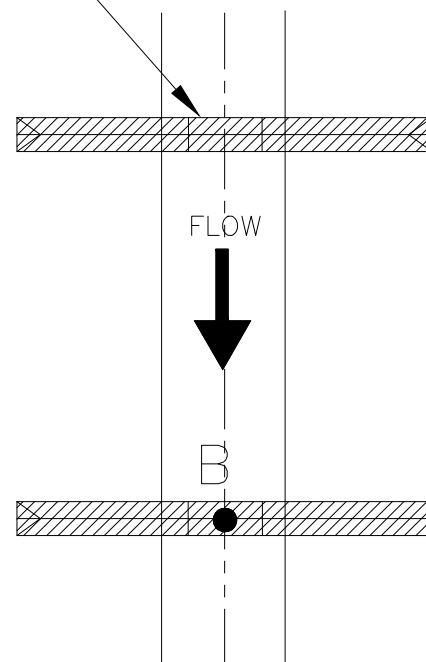
133

END POINTS "A" MUST BE AT LEAST 8-IN. HIGHER THAN FLOW-LINE POINT "B." GREATER DEPTHS MAY BE REQUIRED TO ACCOMMODATE DESIGN FLOWS

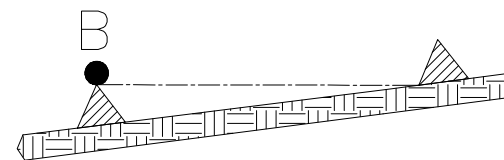


FRONT VIEW

USE SUFFICIENT NUMBER OF UNITS TO SPAN THE CHANNEL



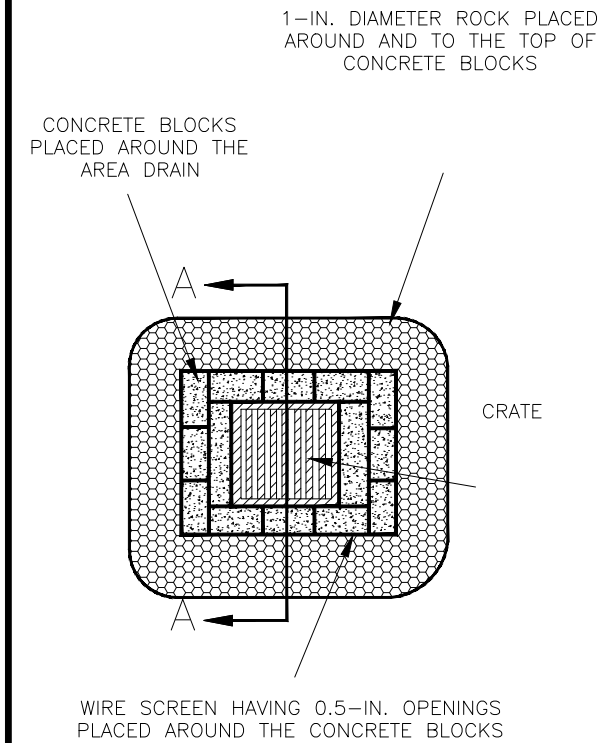
PLAN VIEW



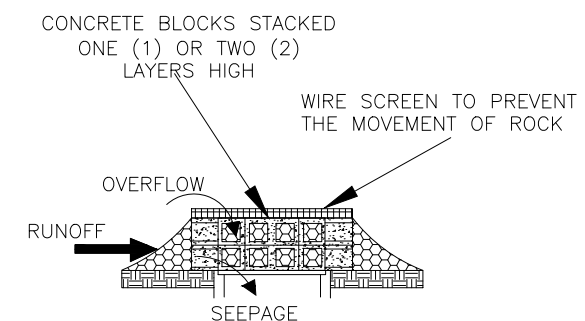
SIDE VIEW

PLACE DOWNSTREAM BARRIER SUCH THAT POINT "B" IS APPROXIMATELY LEVEL WITH THE LOWEST GROUND ELEVATION OF THE UPSTREAM BARRIER

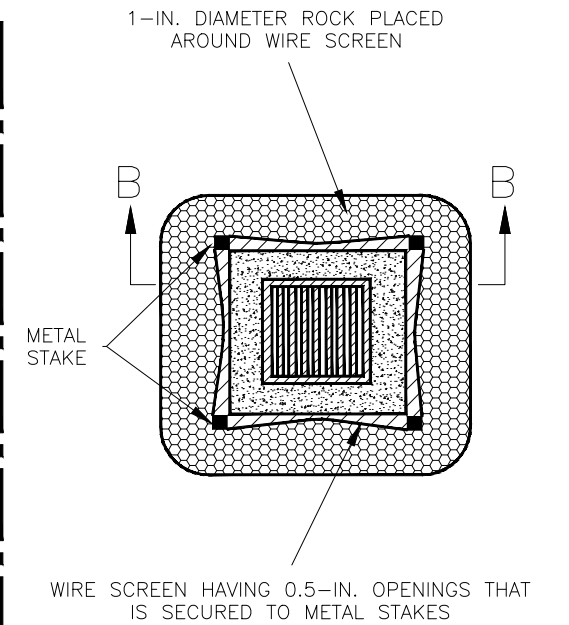
GEOSYNTHETIC CHECK STRUCTURE FOR SMALL DRAINAGE CHANNELS



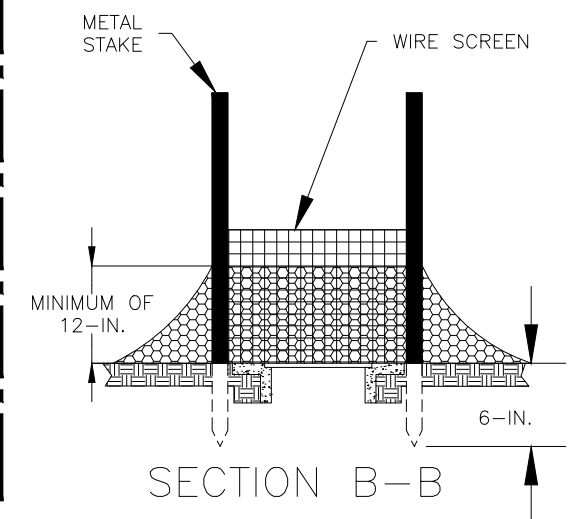
PLAN VIEW



SECTION A-A



PLAN VIEW

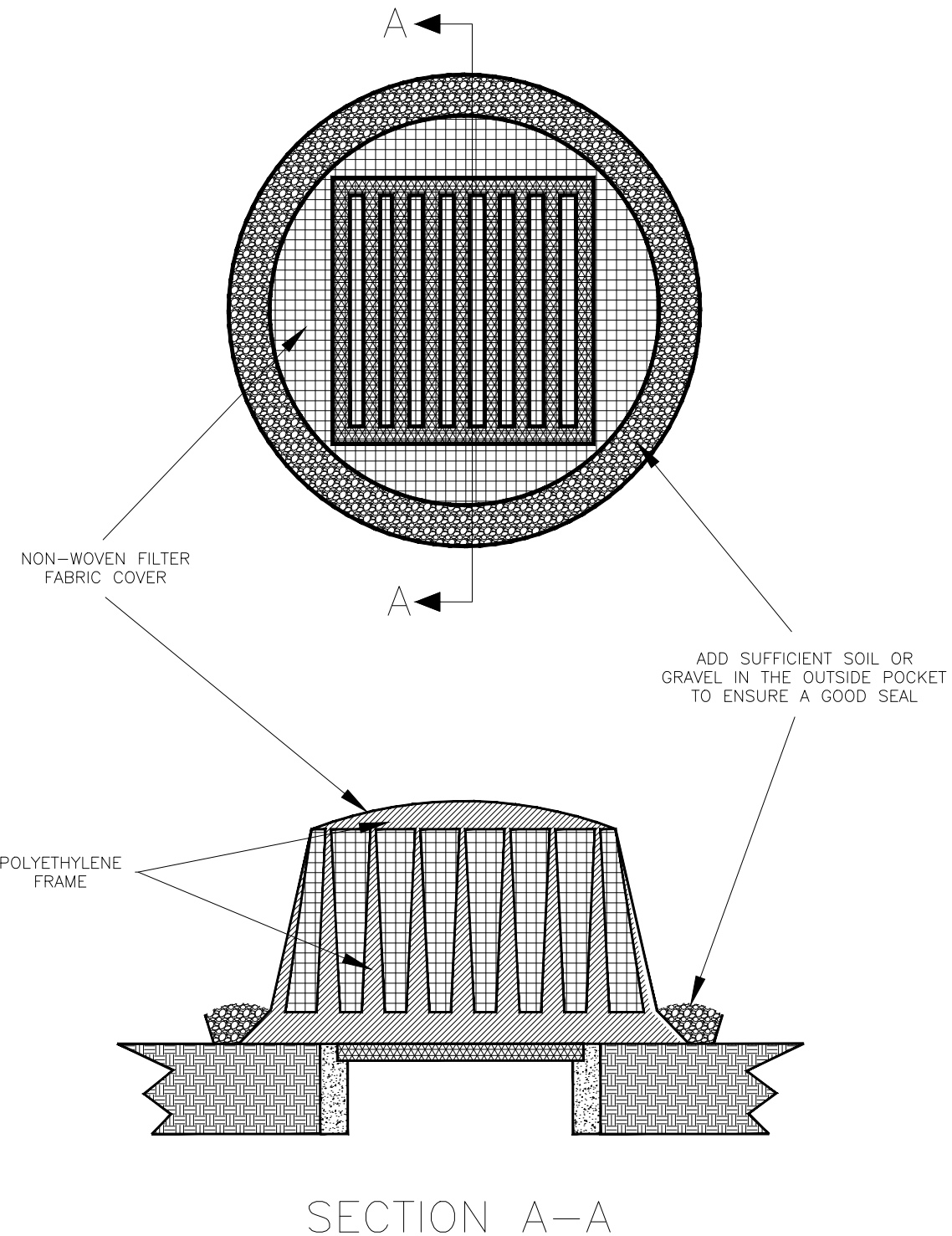


SECTION B-B

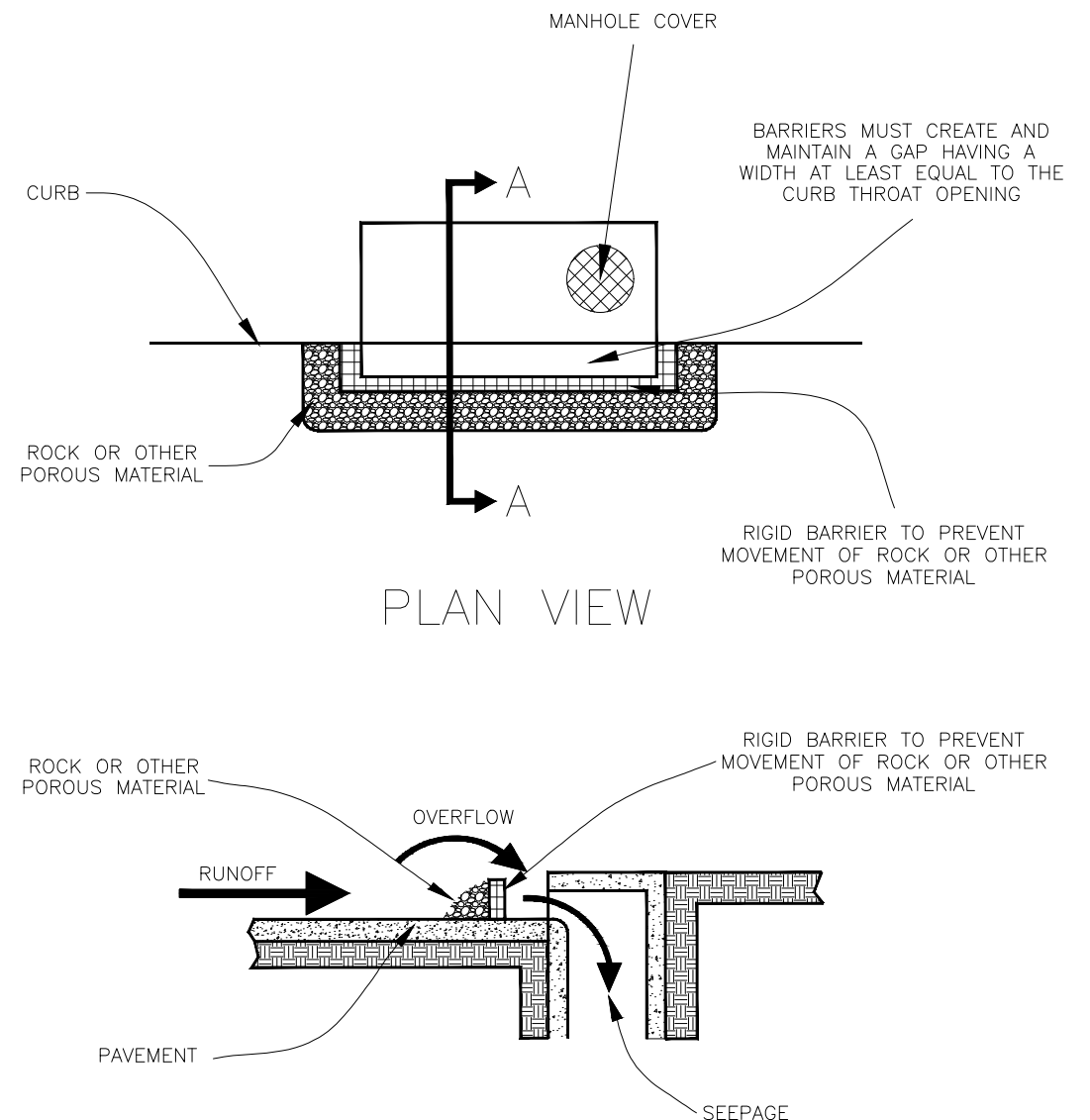
1. THESE BARRIERS SHOUL BE INSTALLED ONLY WHERE "SUMP" CONDITIONS EXIST IN ORER TO MINIMIZE DIVERSION OF RUNOFF WATERS ON TO DOWNSTREAM STRUCTURES.
2. ROCK BARRIERS AROUND CONCRETE BLOCKS CAN BE INSTALLED ON PAVEMENT OR BARE GROUND.

ROCK BARRIER FOR AREA DRAINS

No.	Date	Revision	By	No.	Date	Revision	By
1				2			
2				3			
3				4			
4				5			



FRAME & FILTER BARRIER FOR AREA DRAINS



1. RIGID BARRIER MUST HAVE OPENINGS TO ALLOW FOR PERCOLATION OF RUNOFF
2. PLACE BARRIERS IN FRONT OF INLETS ONLY WHERE SUMP CONDITIONS EXIST.
3. THE GAP WIDTH MUST BE AT LEAST EQUAL TO THE CURB THROAT OPENING.
4. THESE STRUCTURES MAY CAUSE ASPHALT DAMAGE DUE TO WATER SEEPAGE INTO JOINTS.

CURB INLET SUMP BARRIER

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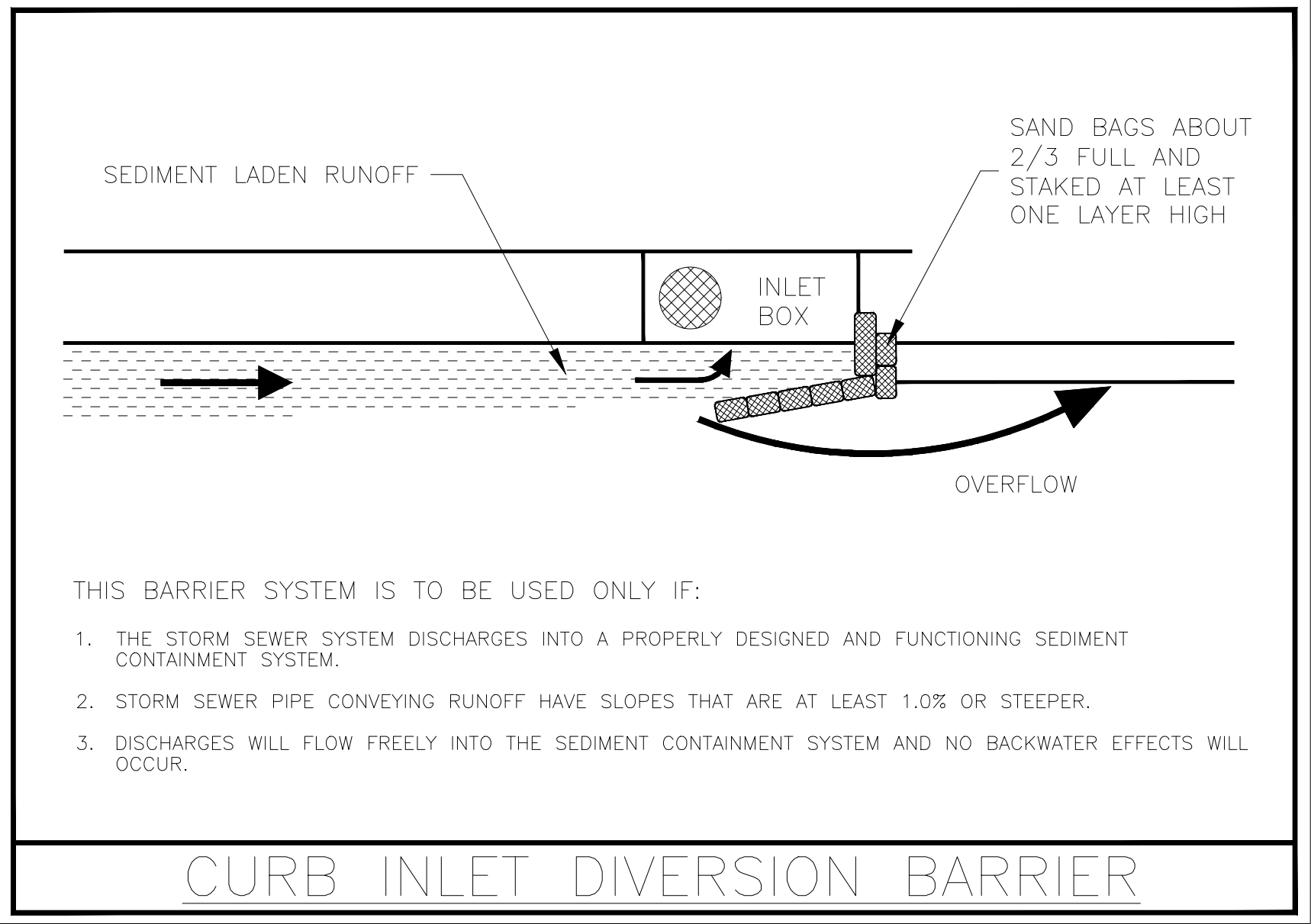
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Approved by: MCC
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135



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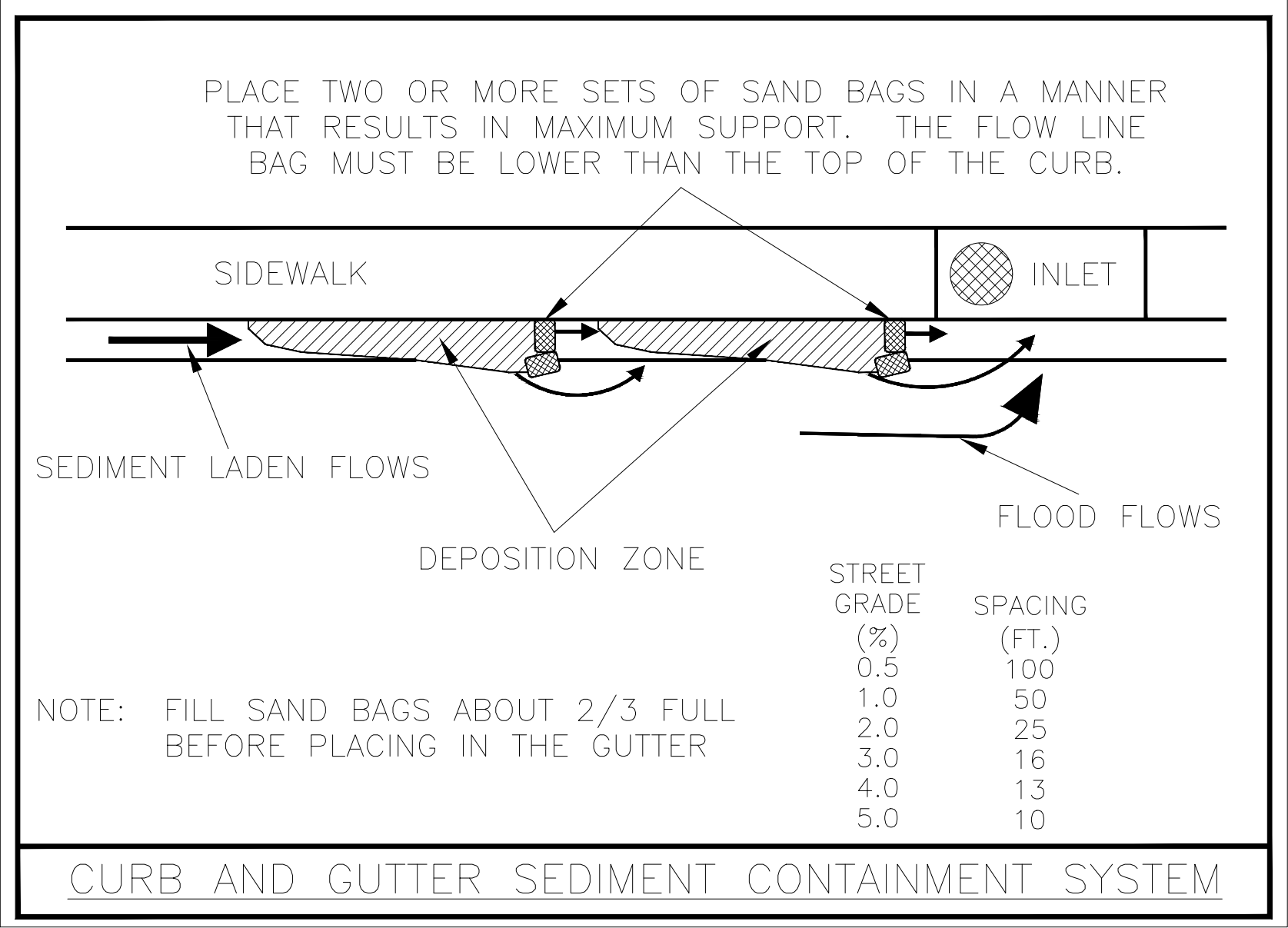
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Stormwater Pollution
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Sheet No.
136



Drawing name: J:\S0989\Roadway\SWPPP\SWPPPT01_P01.dwg, May 09, 2024, 12:29pm mcdaniel

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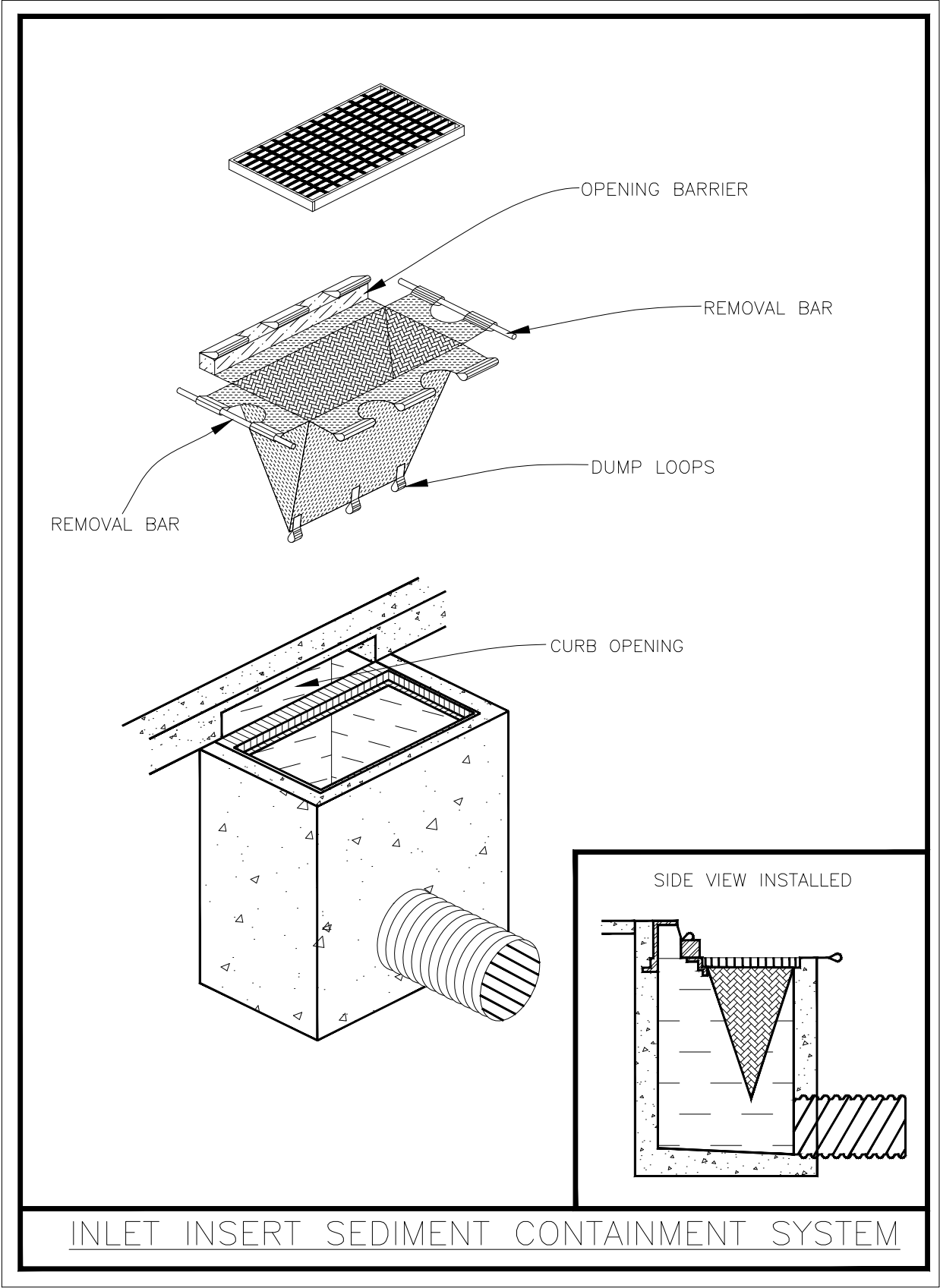
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Stormwater Pollution
Prevention Details

Sheet No.
137



INLET INSERT SEDIMENT CONTAINMENT SYSTEM

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**Stormwater Pollution
Prevention Details**

SIGNING & PAVEMENT MARKING GENERAL NOTES

1. 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.
4. 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.
6. 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.
9. 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.

Drawing name: J:\S09896\Roadway\Signing\Marking\GNCS\SP01_P01.dwg May 09, 2024 - 12:29pm msahman

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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: 407.322.6841 Licenses:	
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Survey L.B. No. 7143	Landscape Lic. No. LC0000298

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

Signing & Pavement
Marking Plans
General Notes


Sheet No.
S-1

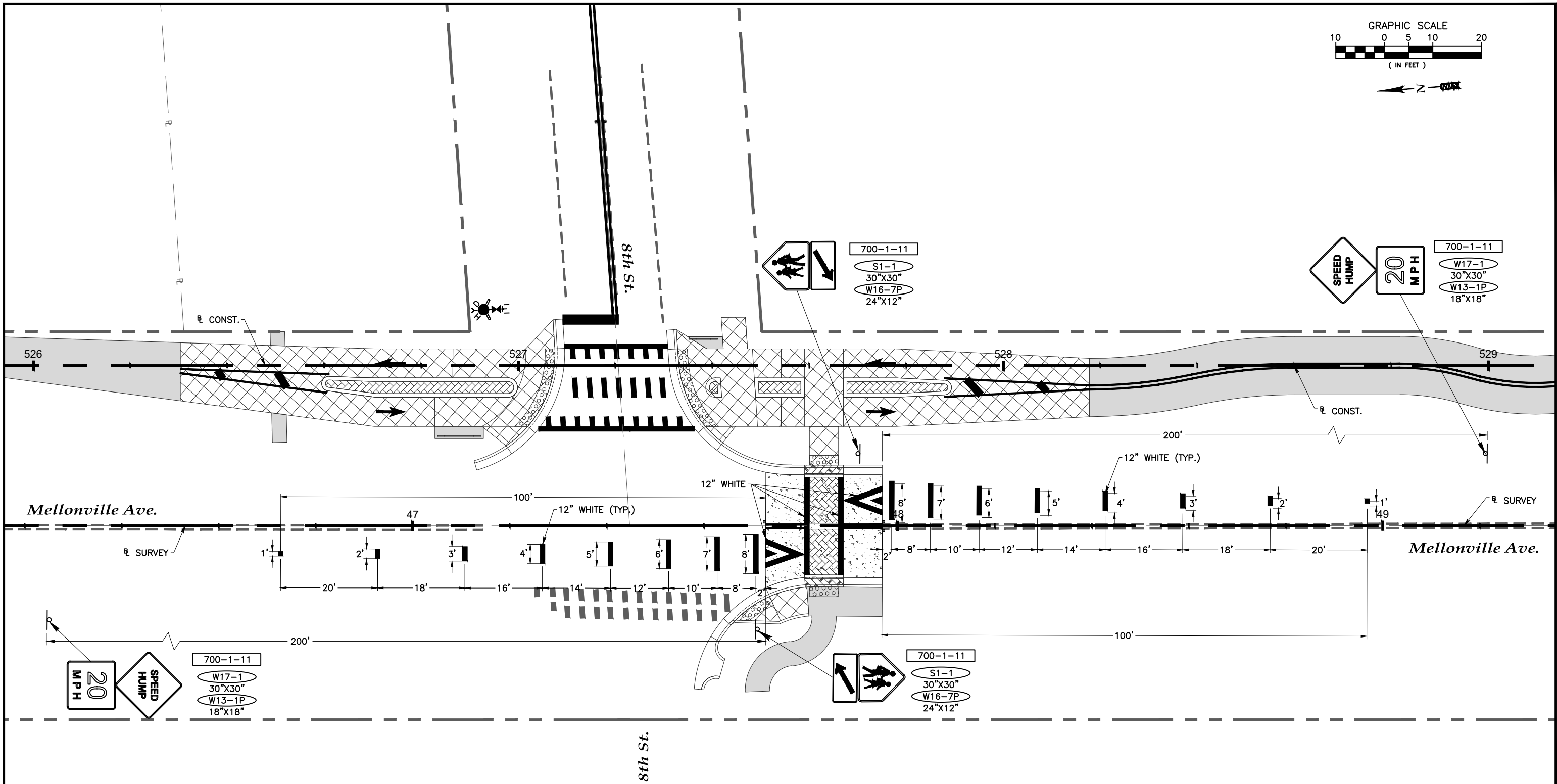
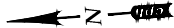
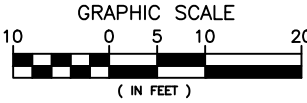
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			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
700-1-11	SINGLE POST SIGN, F&I, GM, <12SF	AS																									24	
	R1-1 (30"X30")																											
	R05-03 (24"X24")				1		3				2		2		4			4		2								
	S1-1 (30"X30"), W16-9P (24x12")		1																									
	W01-02R (18"X18"), W16-09 (24"X12")																1											
	W01-02L (18"X18"), W16-09 (24"X12")														1													
	W11-2 (30"X30"), W16-07P (24"X18")		1																									
	W11-15 (36"X36"), W-16-07P (24"X18")																											
	W17-1 (30"X30"), W13-1P (18x18")										1		1															
700-1-50	SINGLE POST SIGN, RELOCATE	AS	2		1						5		2		5			1		2							18	
700-1-60	SINGLE POST SIGN, REMOVE	AS												1													1	
706-1-03	RAISED PAVEMENT MAKERS	EA					8				8								2		6						24	
710-11-170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA			2		6				4																12	
710-11-200	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 4"	GM			0.011		0.033		0.020		0.054		0.116		0.120		0.029		0.035		0.091		0.010		0.076		0.595	
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	
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF																									0	
711-14-123	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 12" FOR CROSSWALK	LF			2		270				156		95		204					56				181			964	
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF																									0	
711-15-101	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES WHITE, SOLID, 6"	GM																		0.014		0.030					0.044	
711-15-201	THERMOPLASTIC, STANDARD-OPEN GRADED ASPHALT SURFACES, YELLOW, SOLID, 6"	GM					0.075				0.044																0.119	

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TABULATION OF QUANTITIES

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No.	Date	Revision	By	No.	Date	Revision	By	 A Full Service A & E Firm Architects M / E / P Engineers Planners Environmental Surveyors Landscape Architects Traffic/Transportation www.cphcorp.com	Offices In: • Florida • Puerto Rico • Connecticut • Maryland • Texas	Designed by: CJT Drawn by: AM Checked by: KRL Approved by: MCC Job No. S0989.1	Date: 05/09/2024 Scale: AS NOTED ©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	Signing & Pavement Marking Plans Summary of Pay Items	Sheet No. S-3



No.	Date	Revision	By	No.	Date	Revision	By
1				2			
2				3			
3				4			
4				5			



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Lake Monroe Trail Loop
Seminole County
Phase I

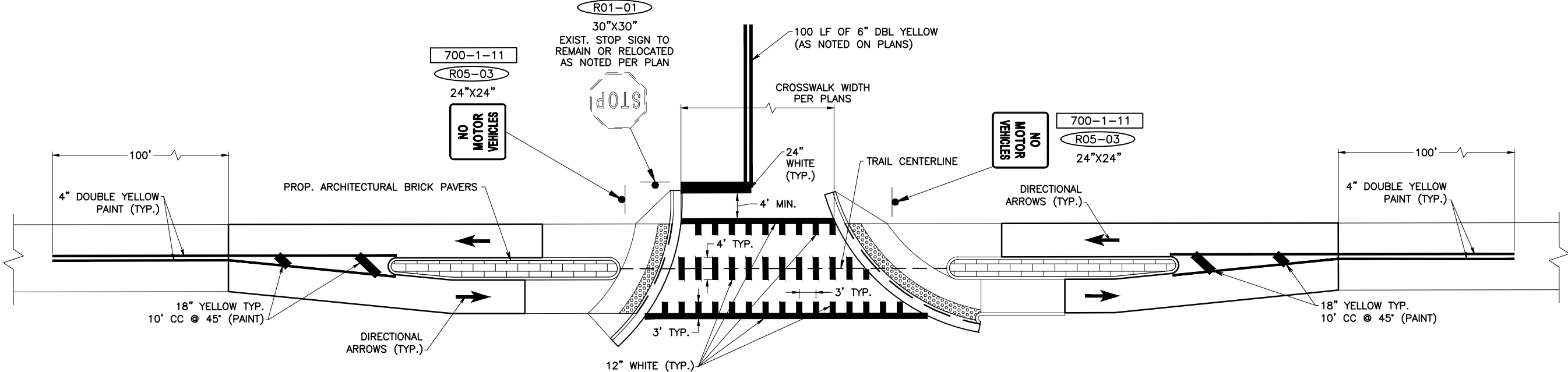
Plans Prepared By:
CPH, Inc.
500 West Fulton St. Sanford, FL 32771
Phone: 407.322.6841
Licenses:
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Survey L.B. No. 7143 Landscp. Lic. No. LC0000298

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FL P.E. No. 73150

Signing & Pavement
Marking Plans
Raised Crosswalk Detail

Sheet No.
S-4

Drawing name: J:\S0989\Roadway\Roadway\DTL\SD03_Phl.dwg May 09, 2024 - 12:45pm mcushman



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.

Drawing name: J:\S0989Roadway\Spring\Marking\PLAN\BPO1_Ph1.dwg May 09, 2024 - 12:42pm mcsullivan

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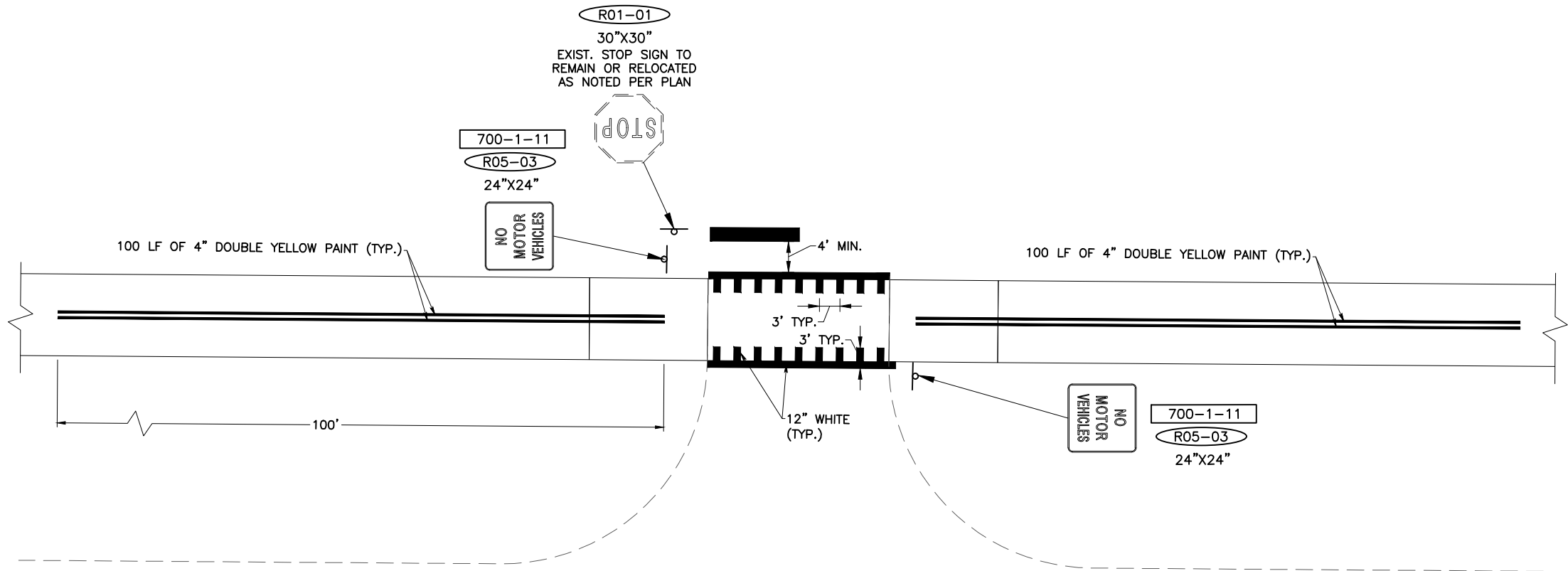
Lake Monroe Trail Loop
Seminole County
Phase I

Plans Prepared By:
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Phone: 407.322.6841
Licenses:
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Survey L.B. No. 7143 Landscp. Lic. No. LC0000298

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

Signing & Pavement
Marking Plans
Mid-Block Detail With Island

Sheet No.
S-5



TYPICAL SIGNS PER DETAIL

2 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

Drawing name: J:\S0989\Roadway\Signing\Marking\PLAN\BPO1_Ph1.dwg May 09, 2024 - 12:42pm mcsullivan

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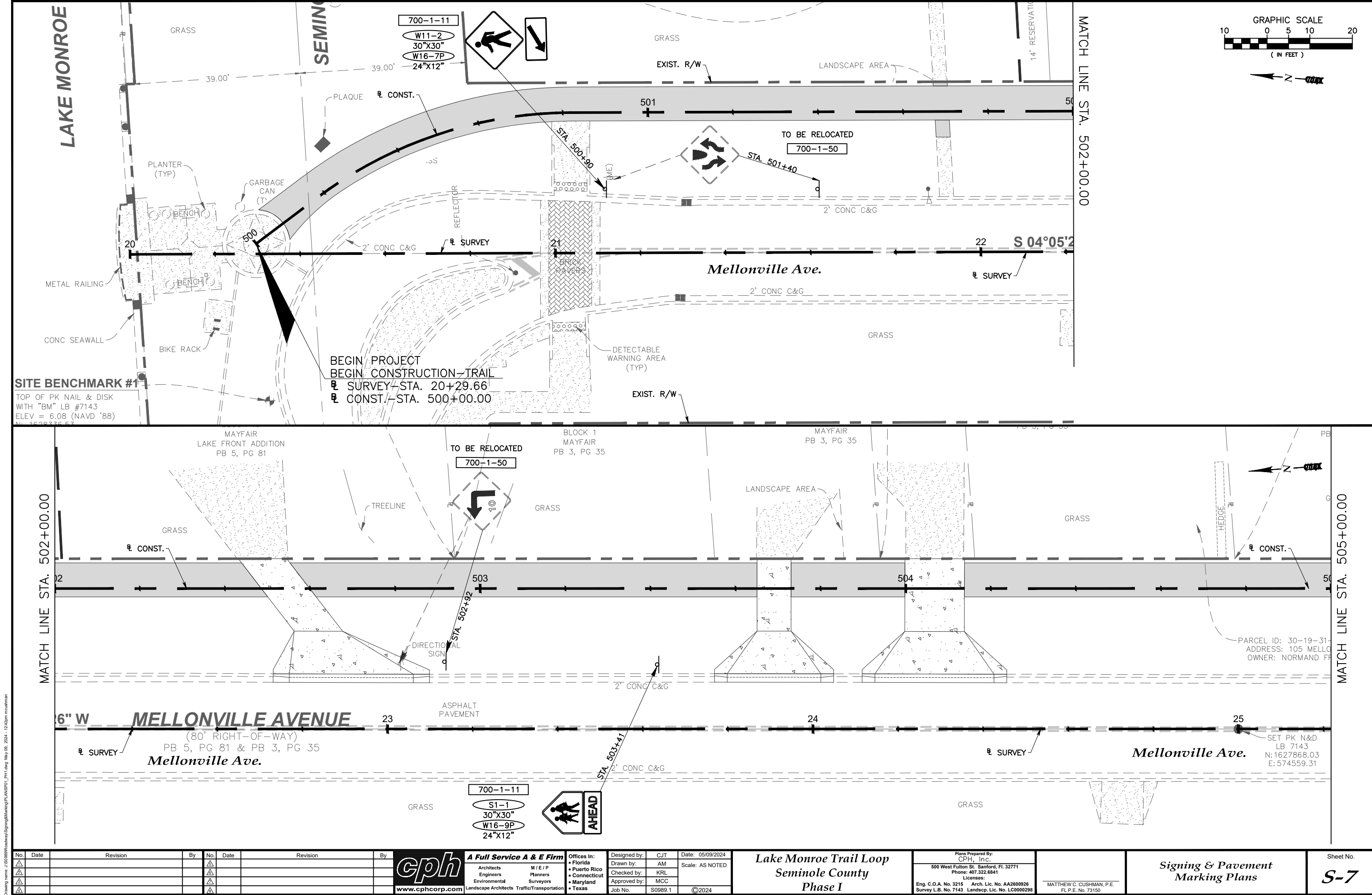
Lake Monroe Trail Loop
Seminole County
Phase I

Plans Prepared By:
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Licenses:
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Survey L.B. No. 7143 Landscp. Lic. No. LC0000298

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

Signing & Pavement
Marking Plans
Mid-Block Detail Without Island

Sheet No.
S-6



Drawing name: J:\S0966\Roadway\Spring\Marking\PLAN\BPO1_P01.dwg May 09, 2024 - 12:42pm mcsullivan

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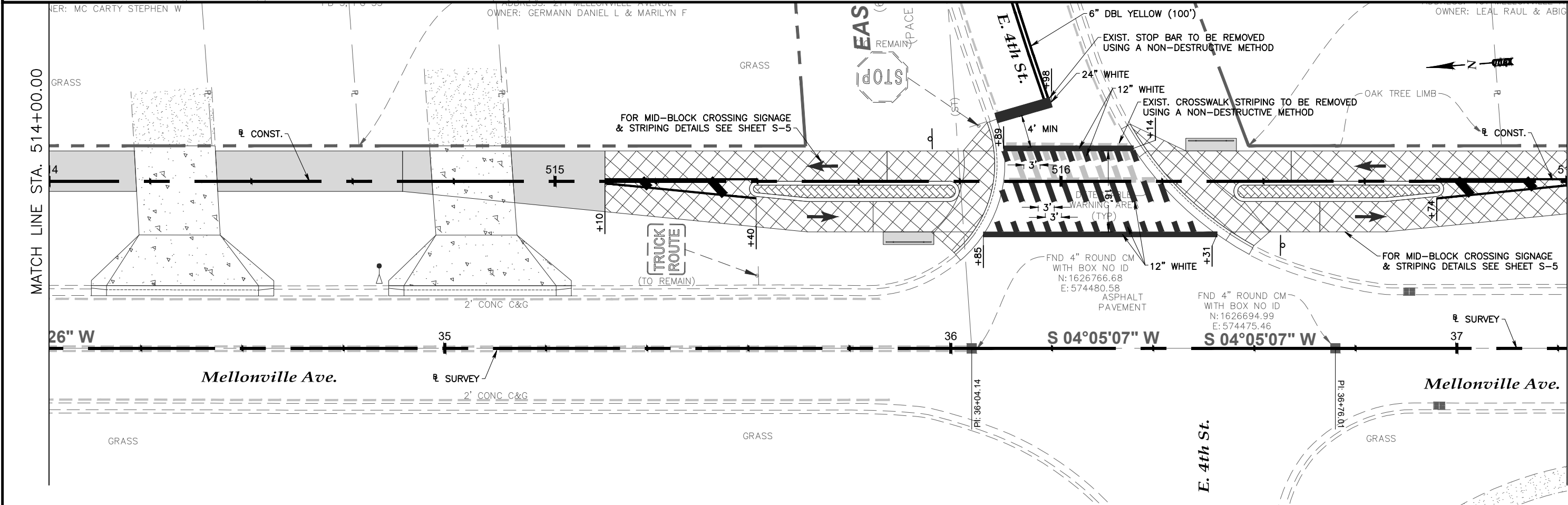
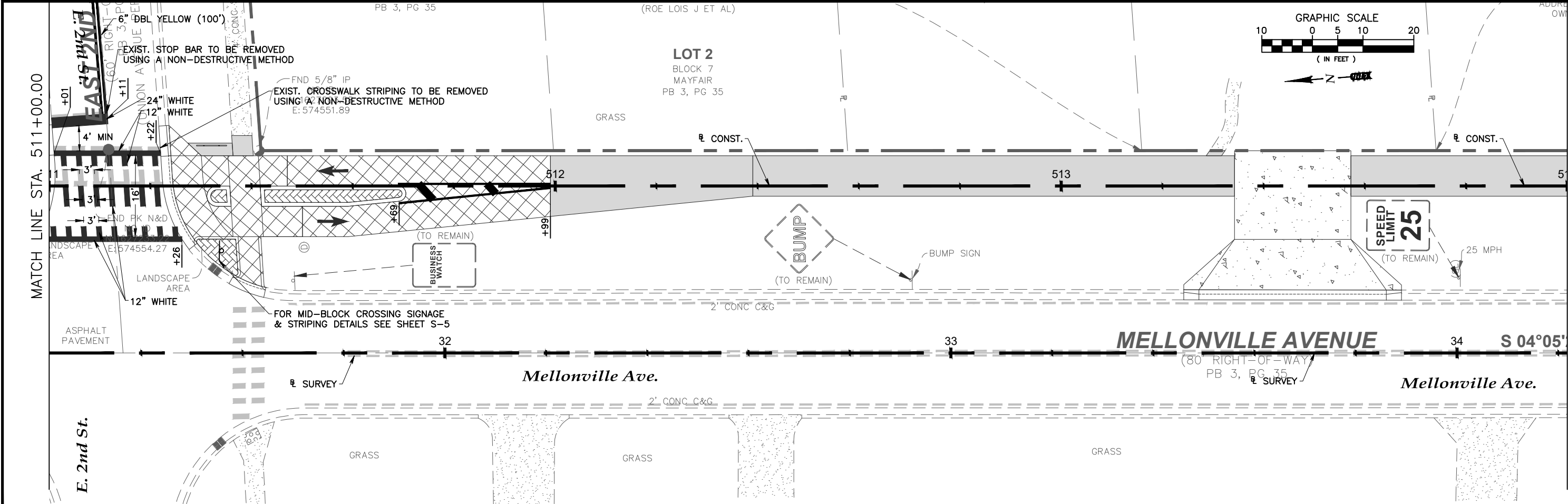
Lake Monroe Trail Loop
Seminole County
Phase I






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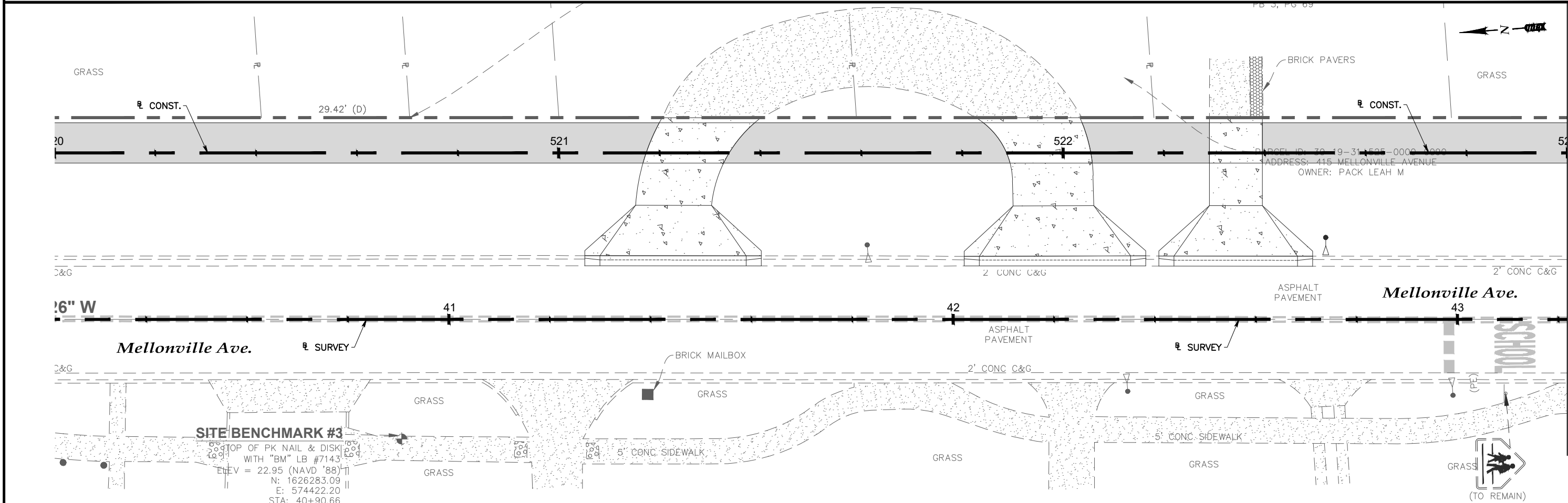
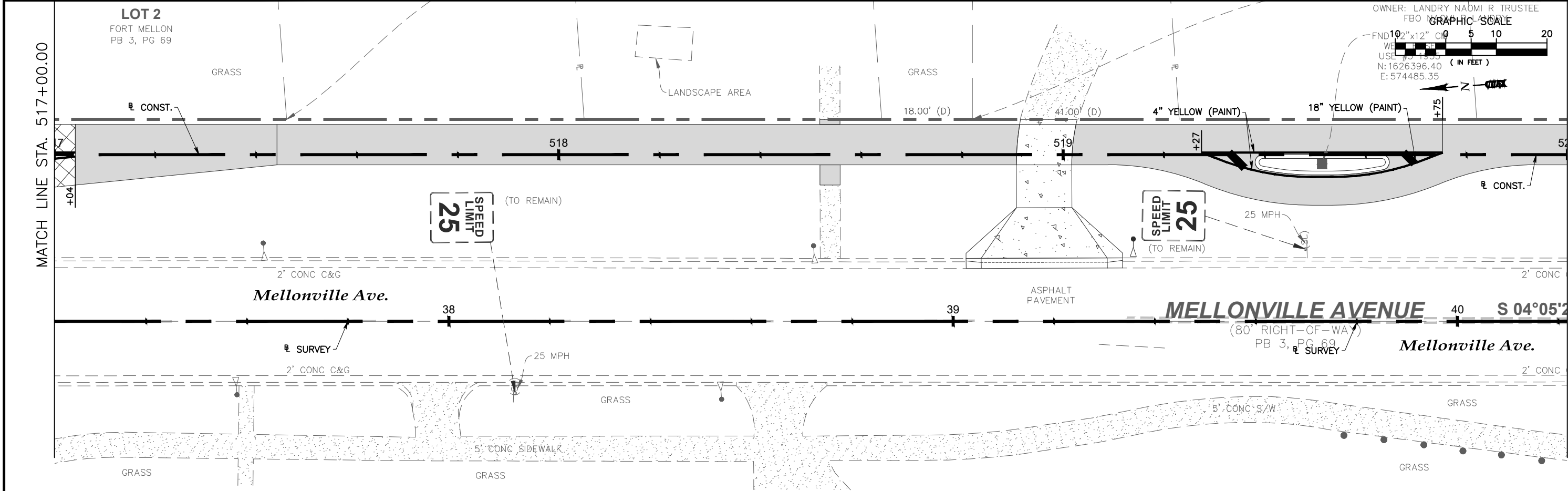
Matthew C. Cushman, P.E.
FL P.E. No. 73150

Signing & Pavement
Marking Plans

Sheet No.
S-7



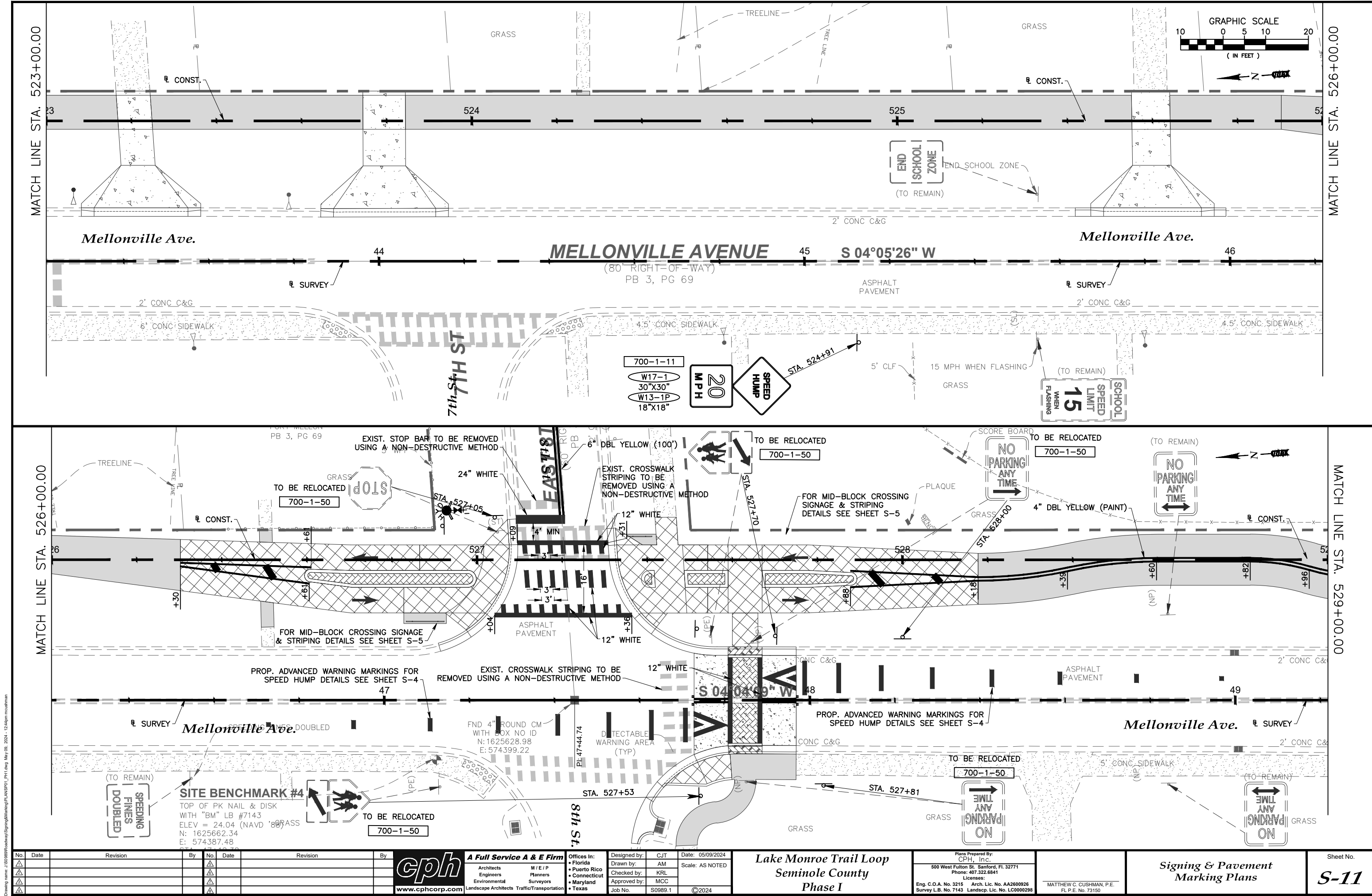
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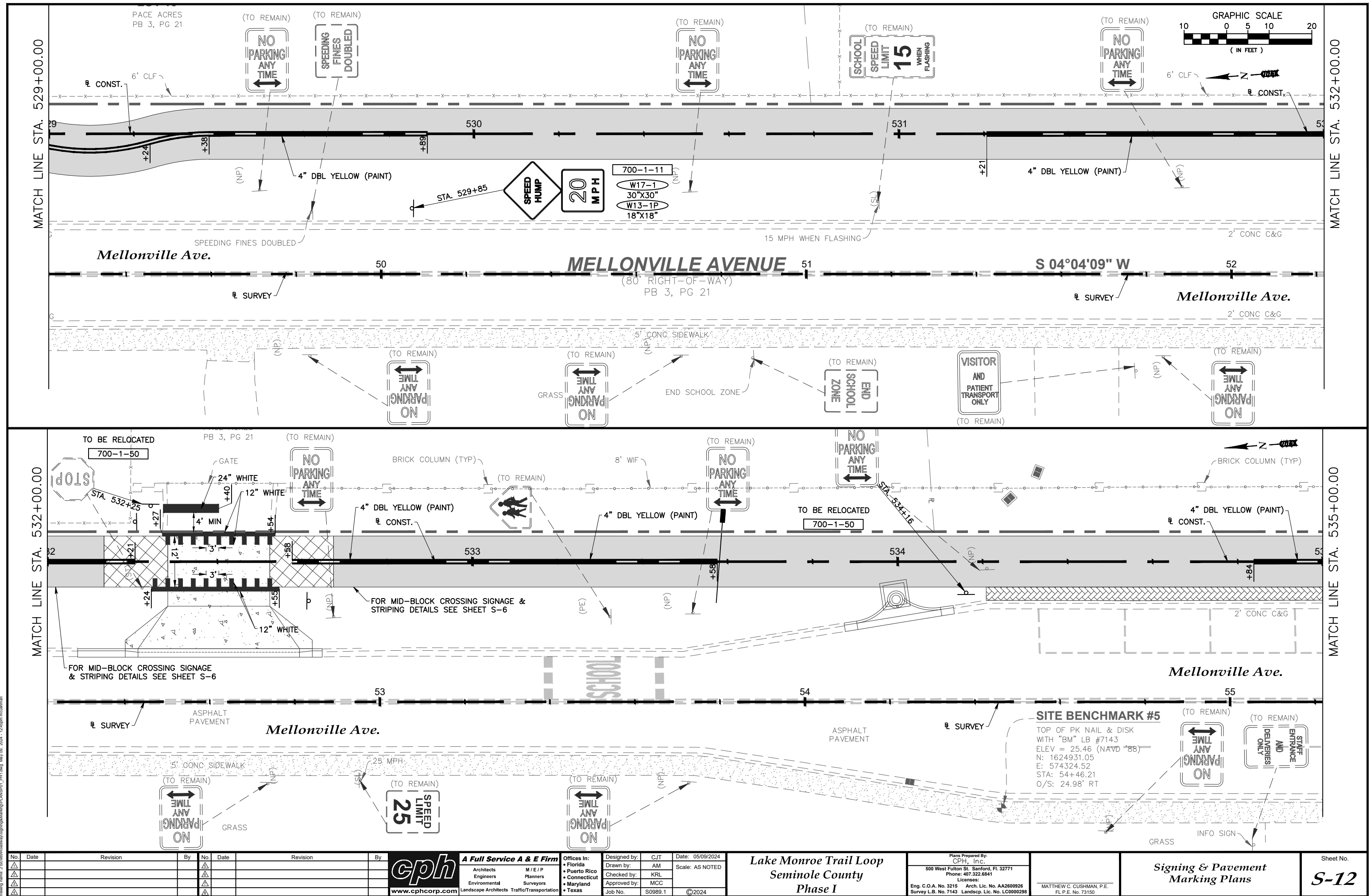
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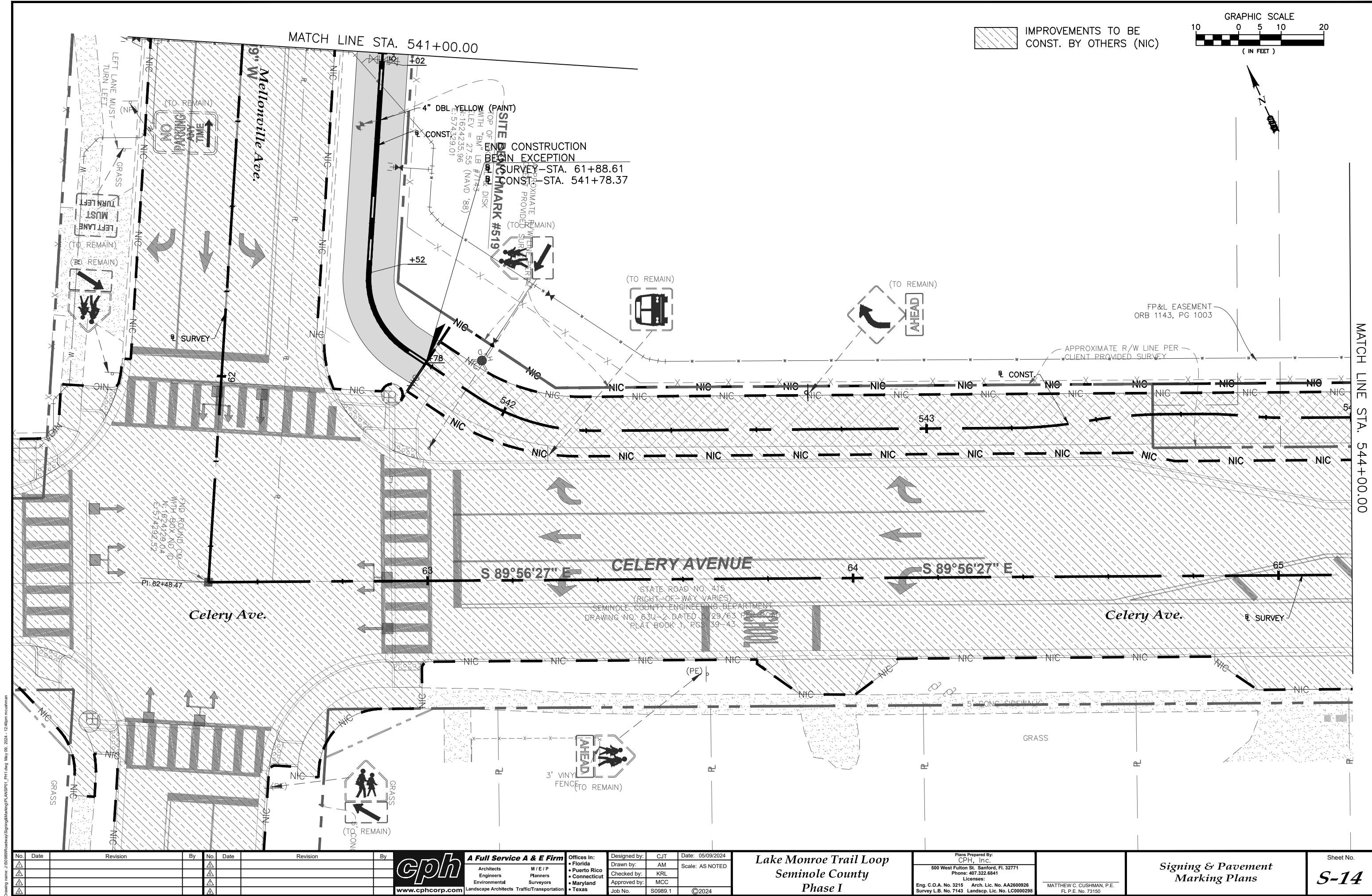
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Lake Monroe Trail Loop
Seminole County
Phase I

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Signing & Pavement
Marking Plans

Sheet No.
S-14

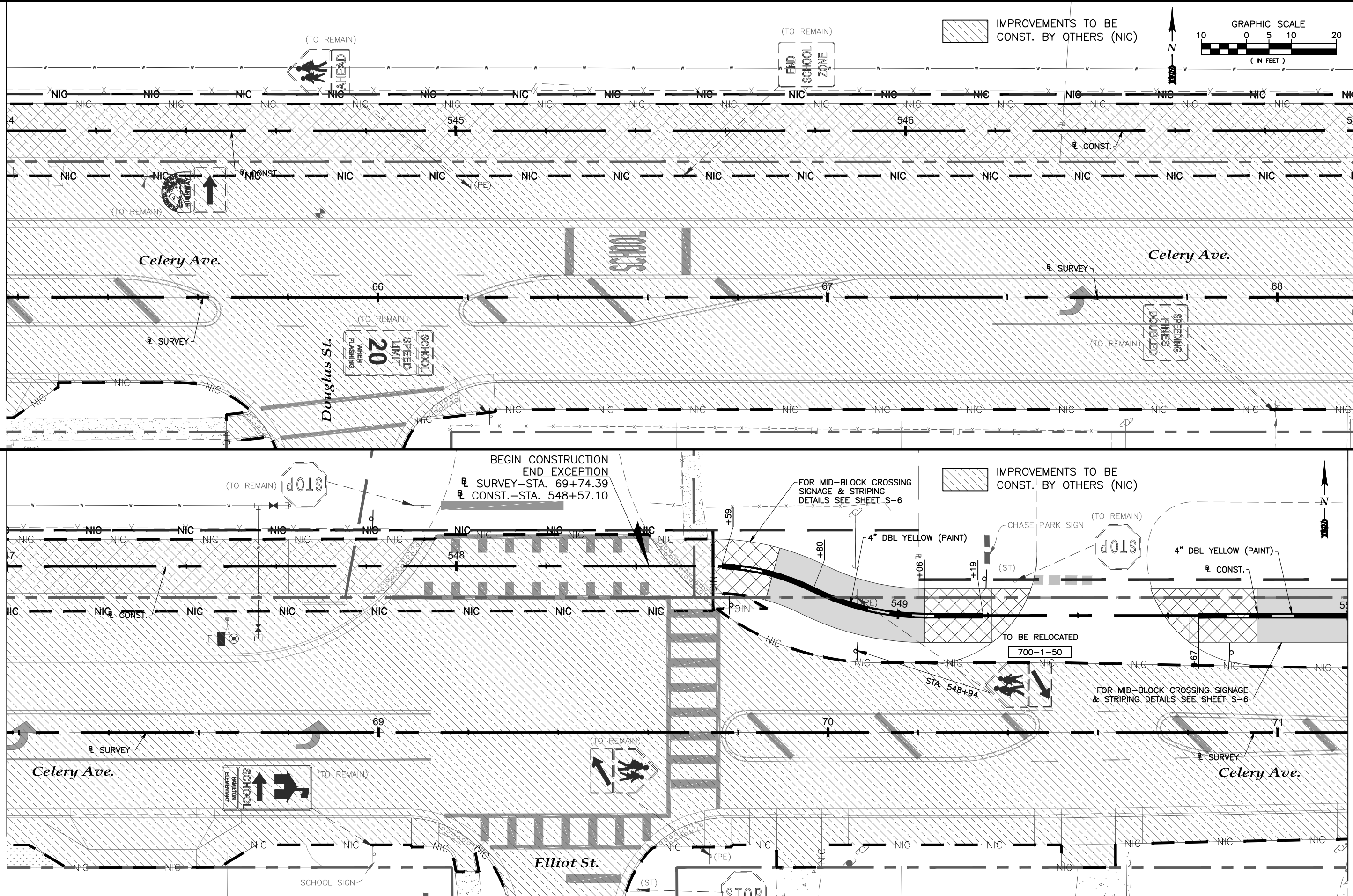
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MATCH LINE STA. 550+00.00



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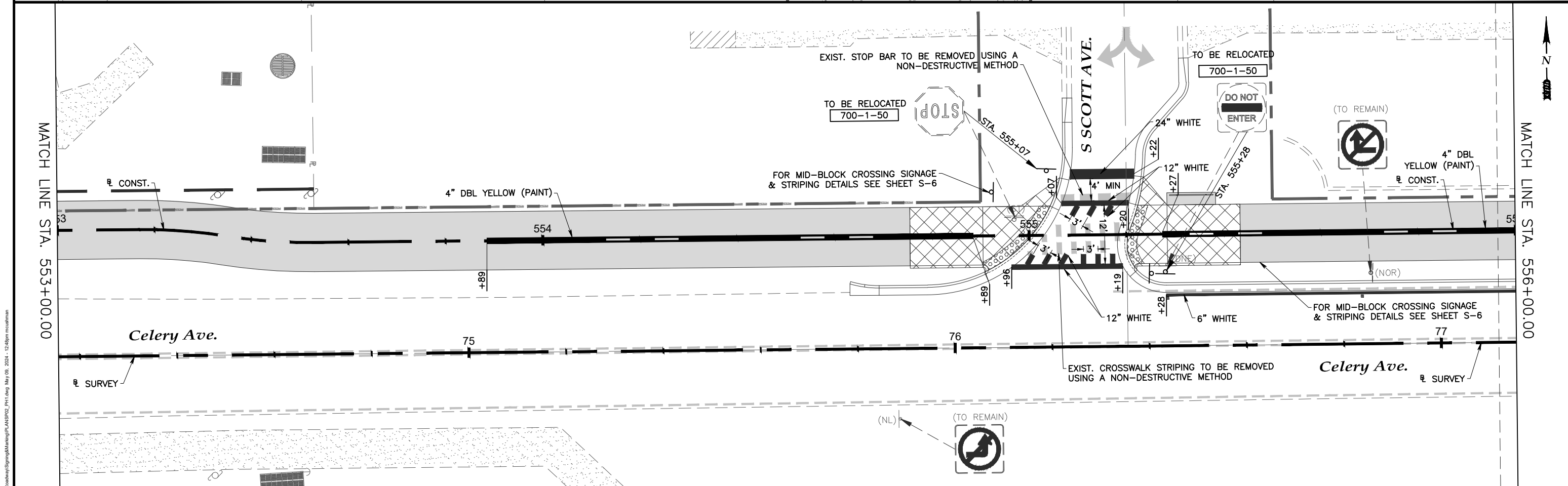
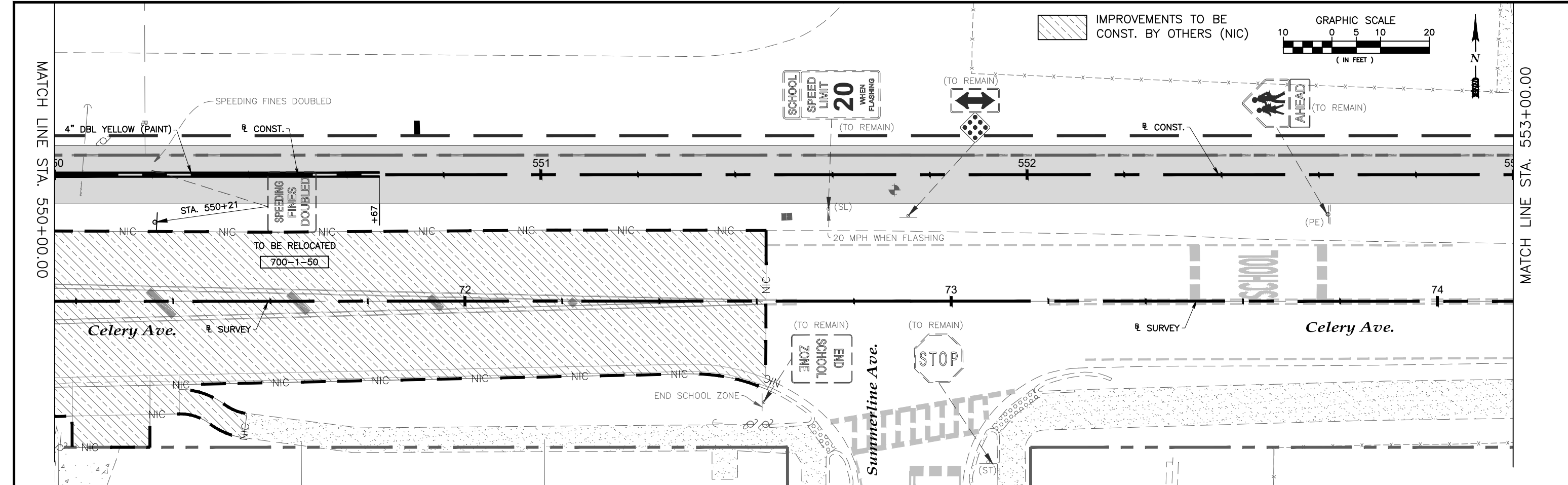
Lake Monroe Trail Loop
Seminole County
Phase I






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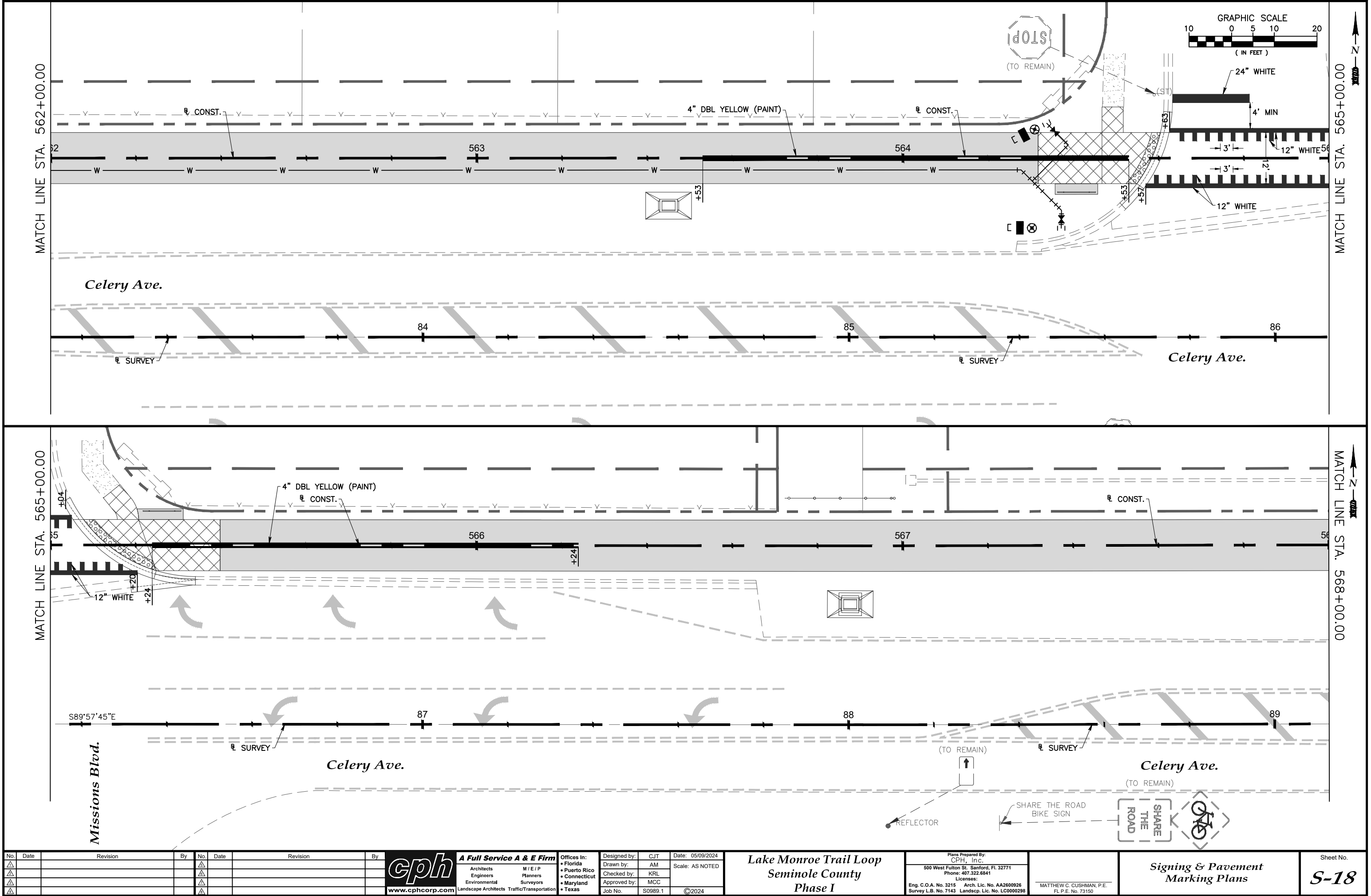
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S-15



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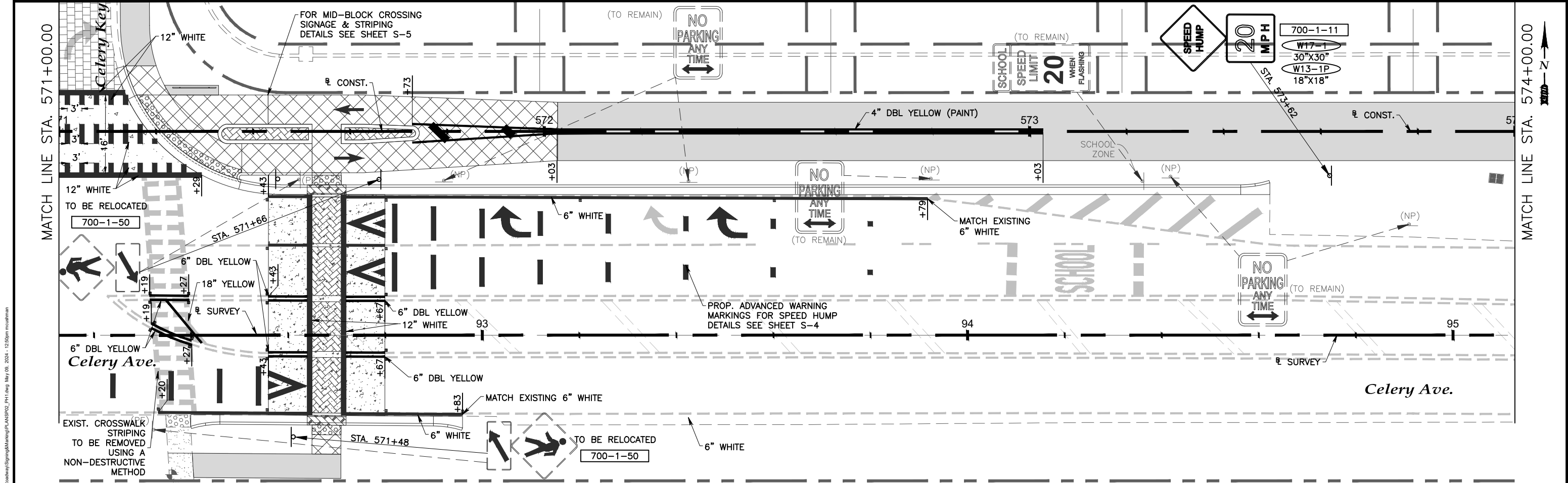
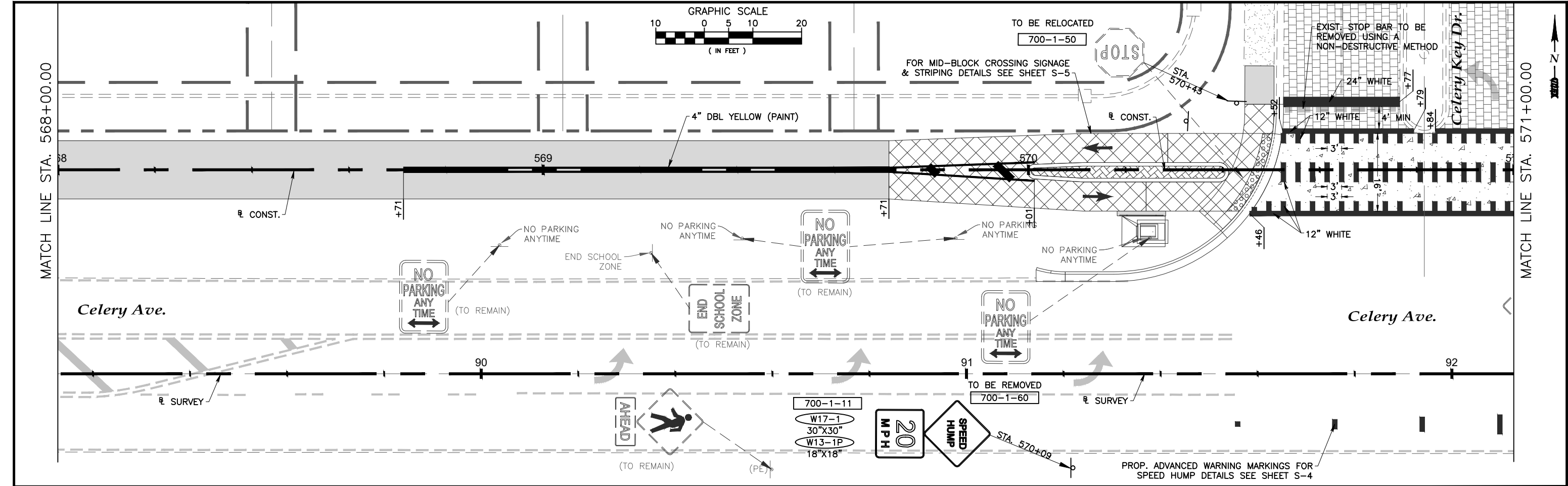
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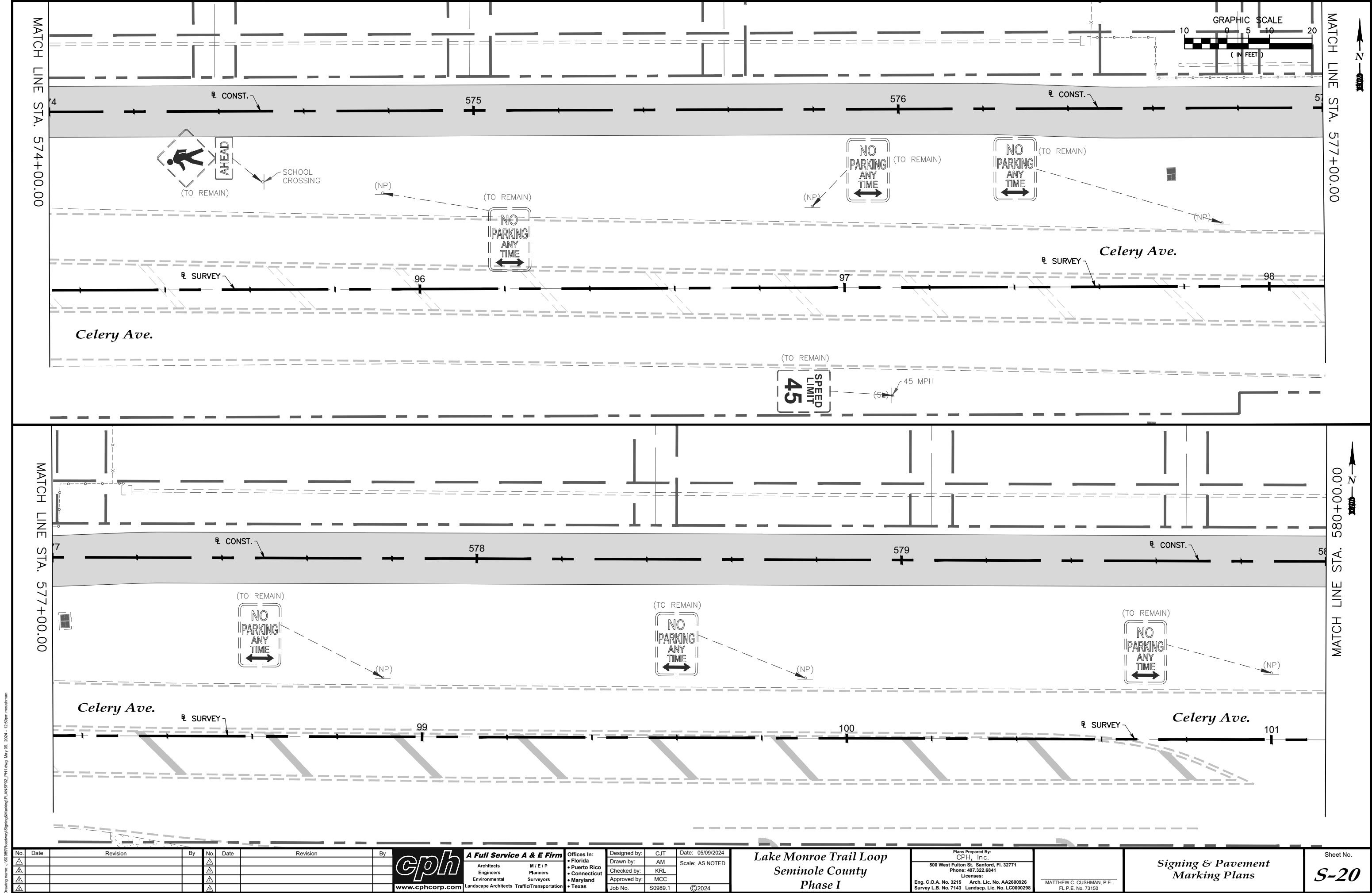
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**Signing & Pavement
Marking Plans**

Sheet No.
S-18





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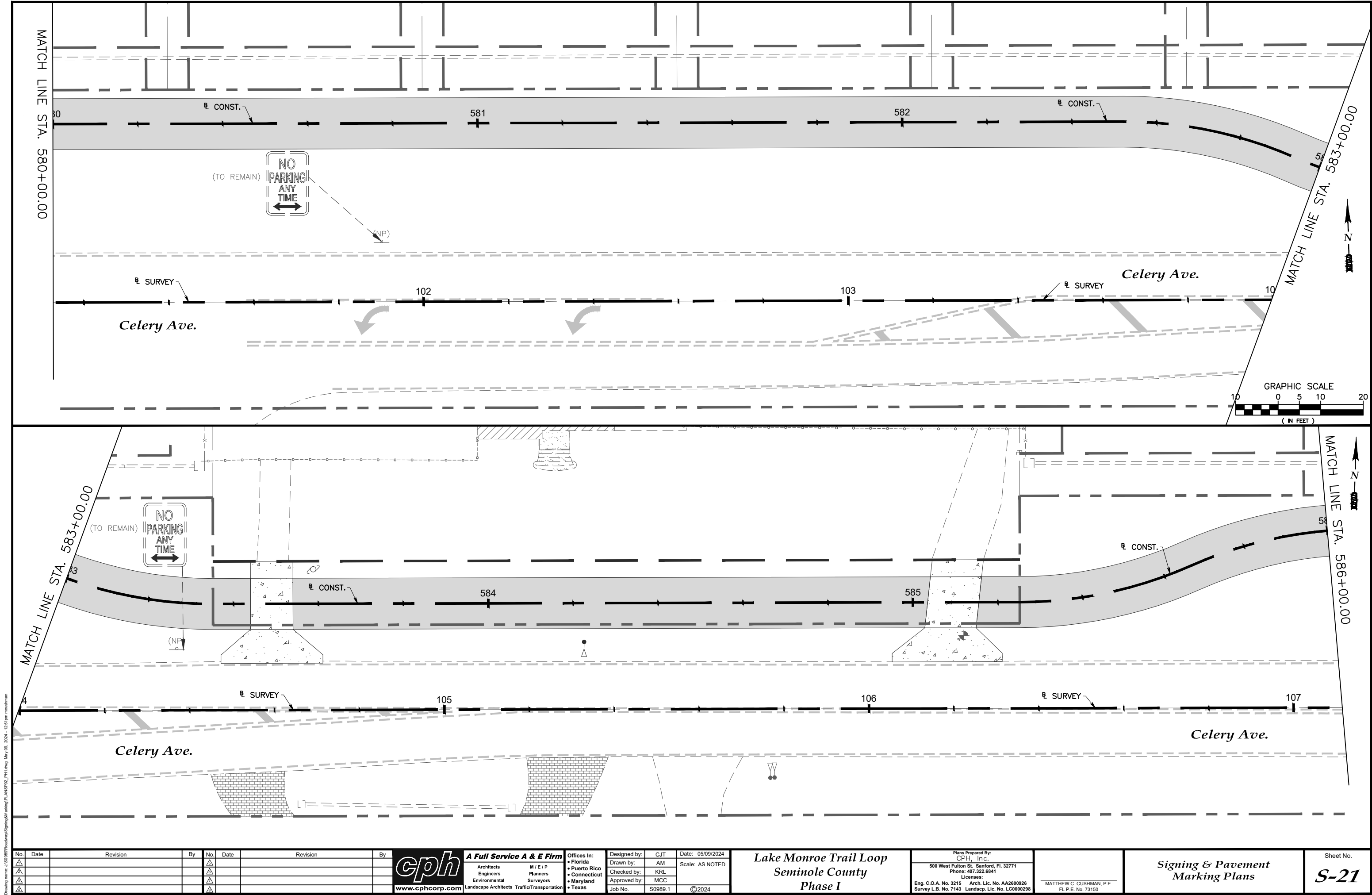
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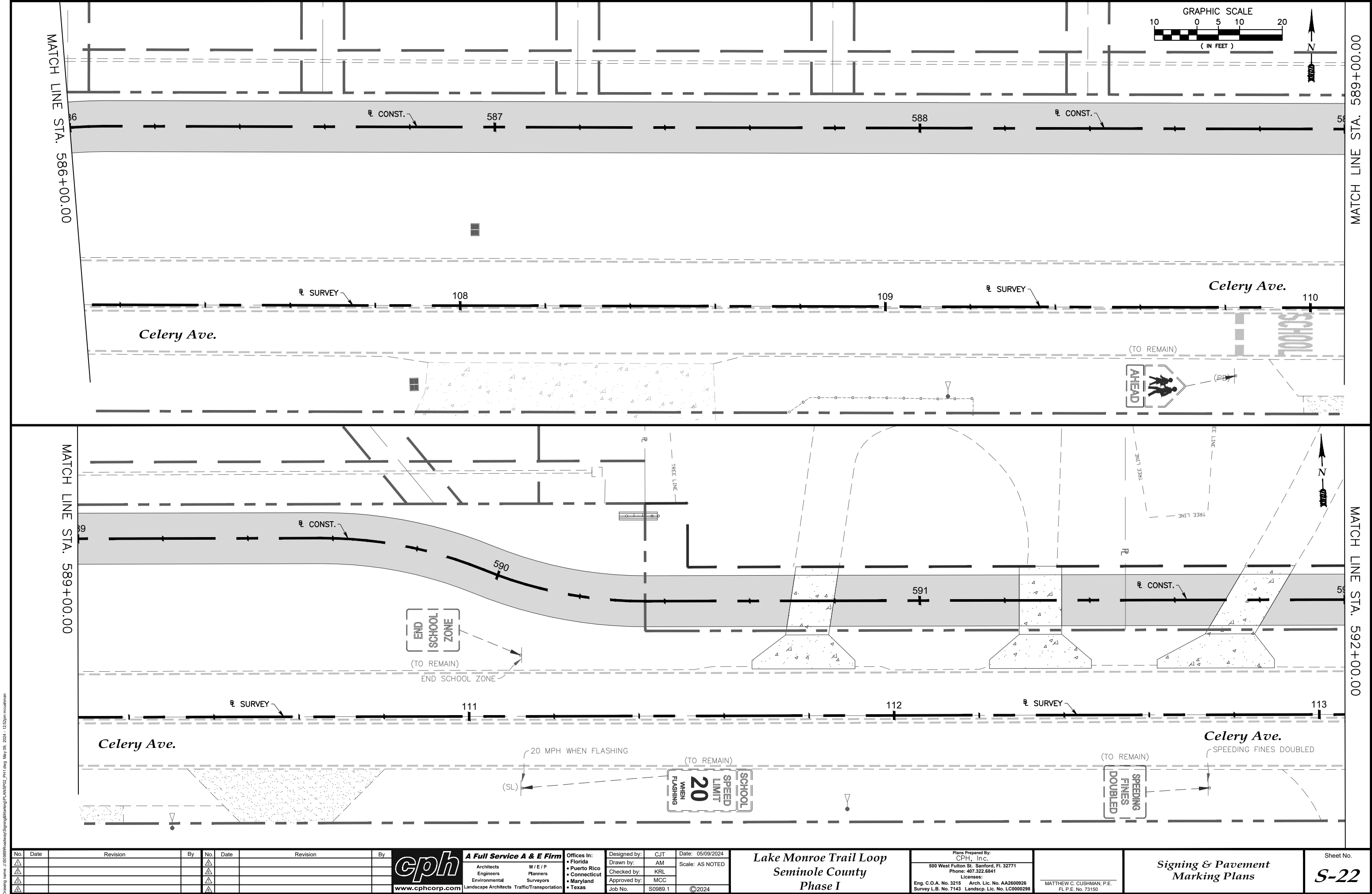
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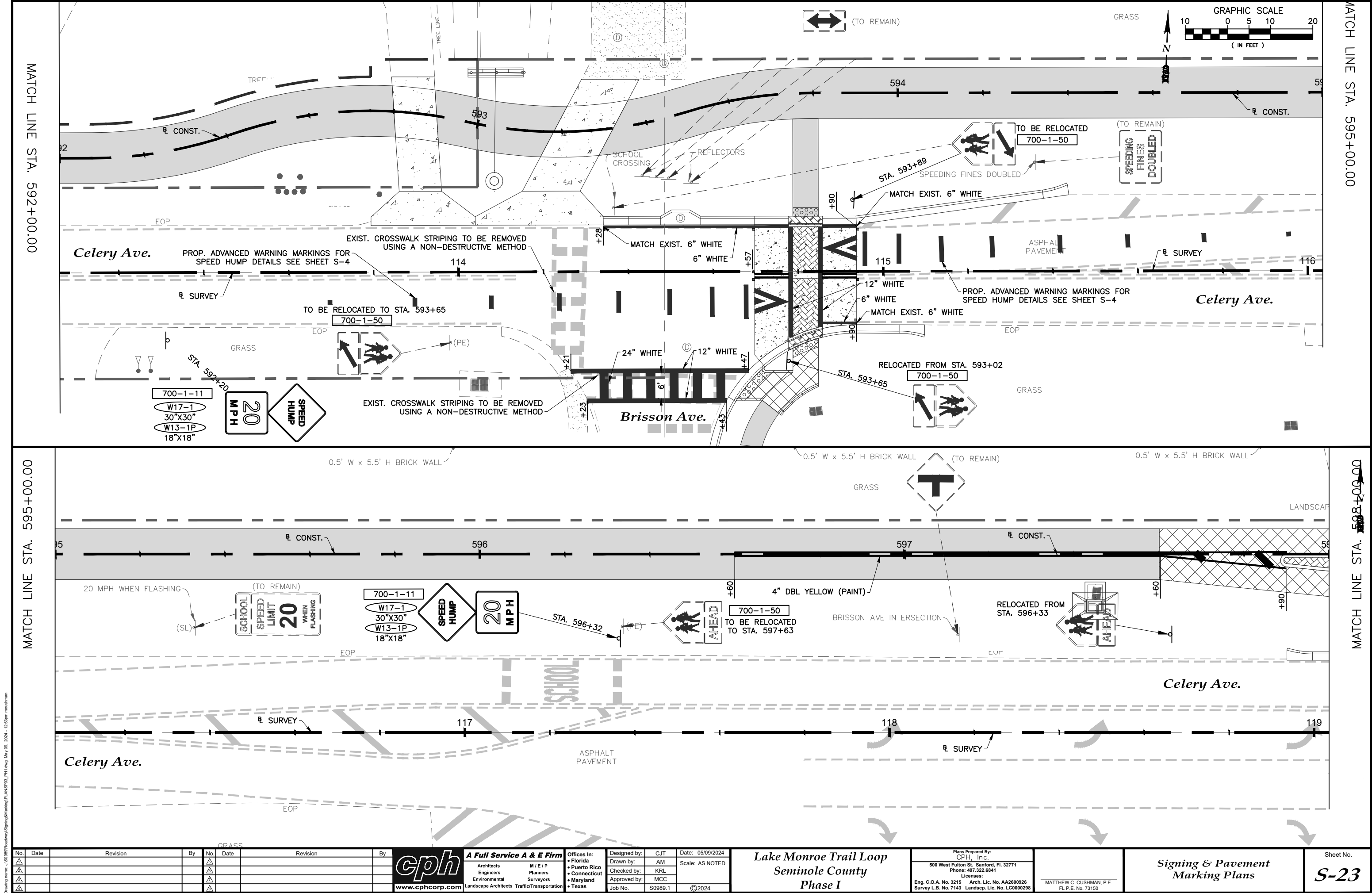
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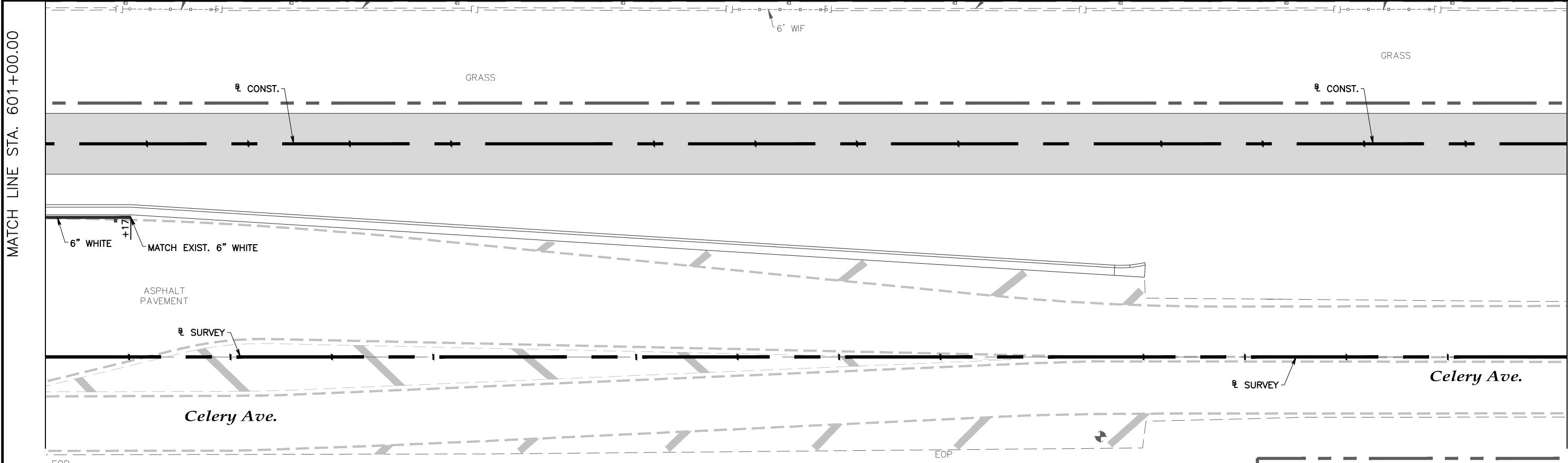
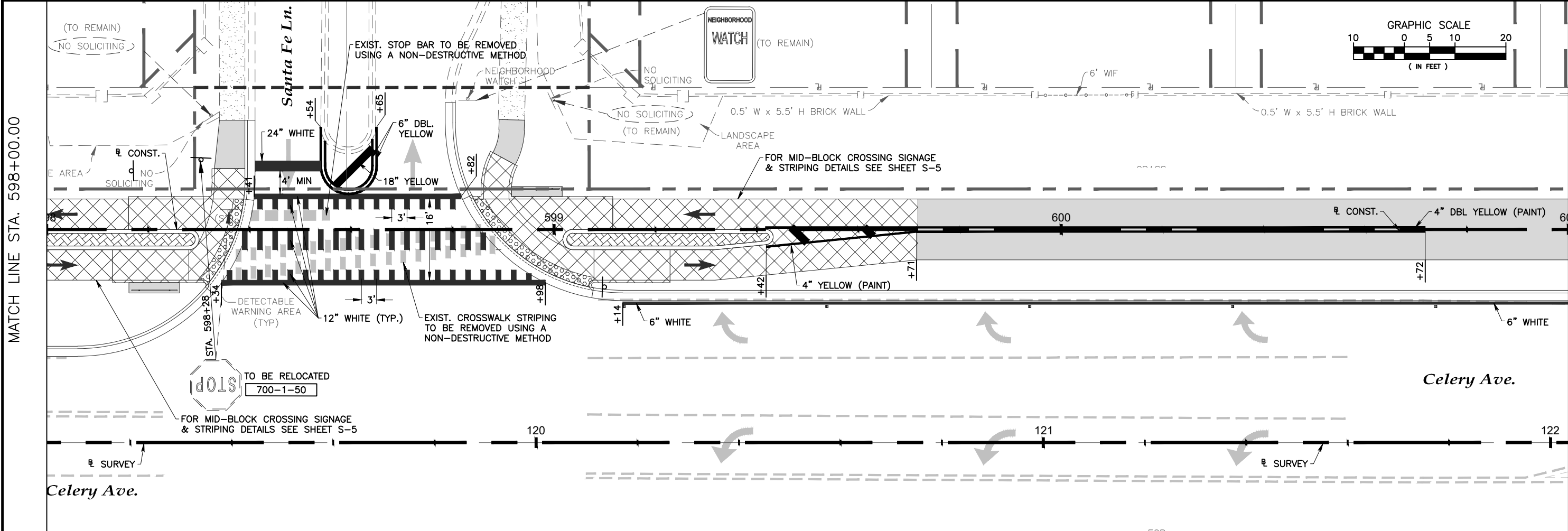
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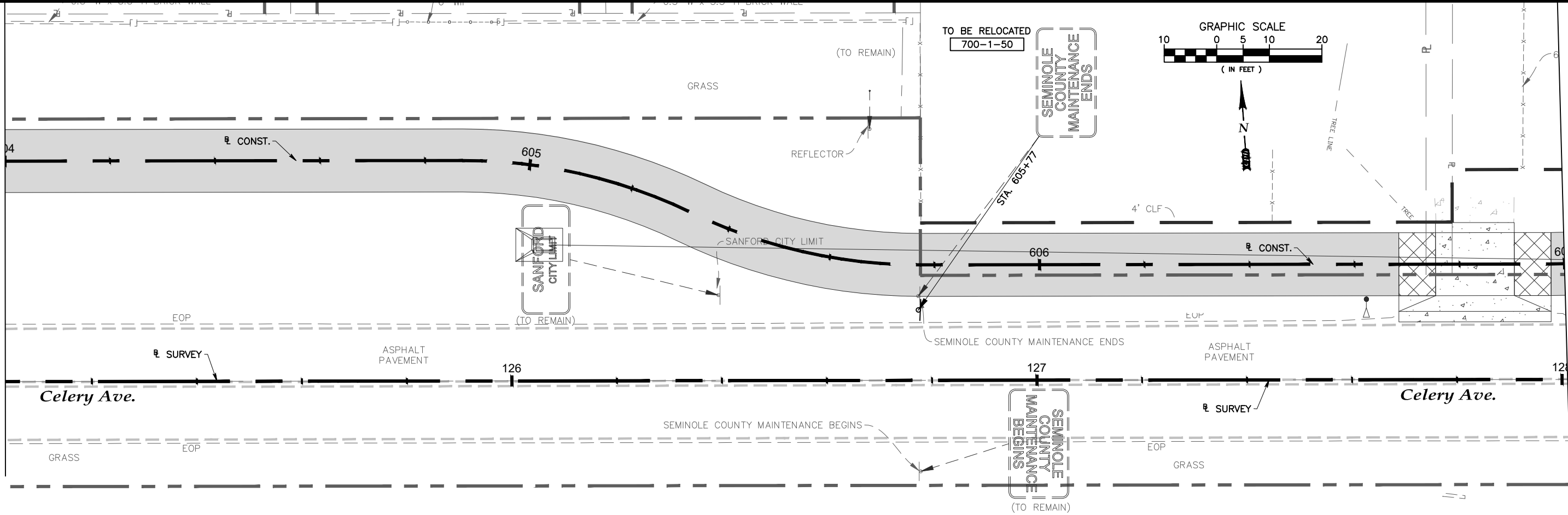
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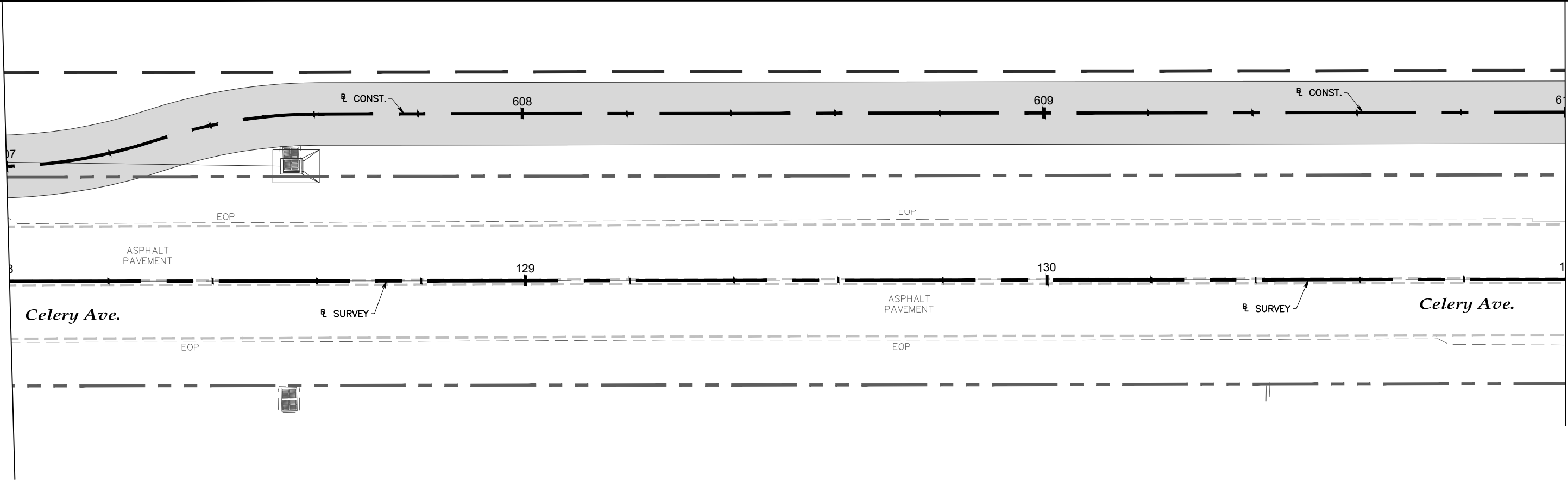
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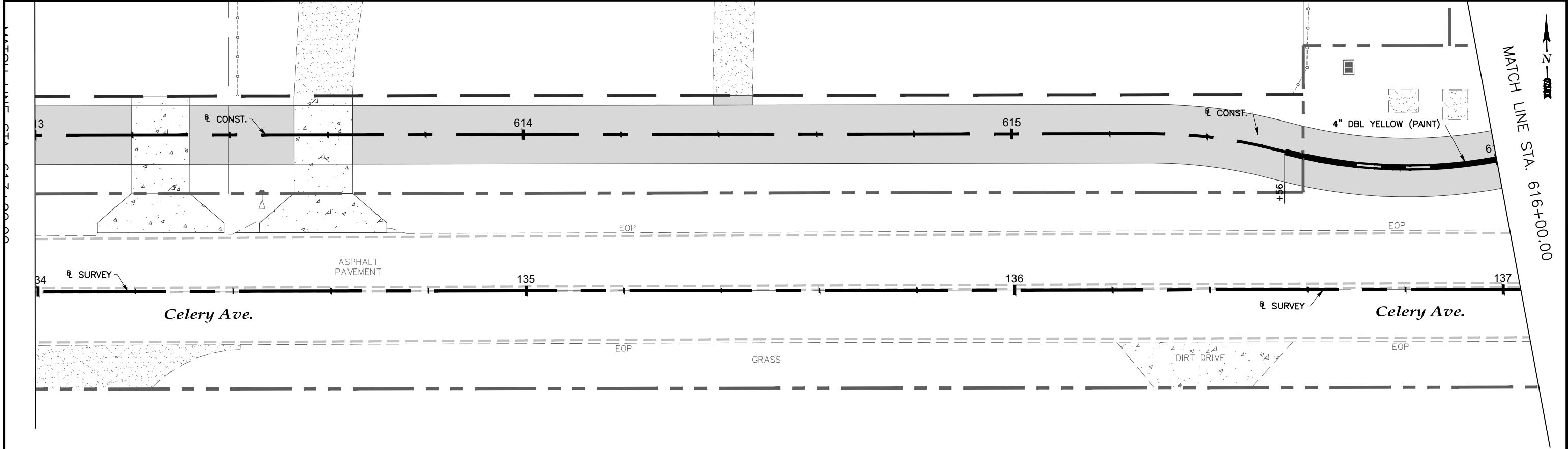
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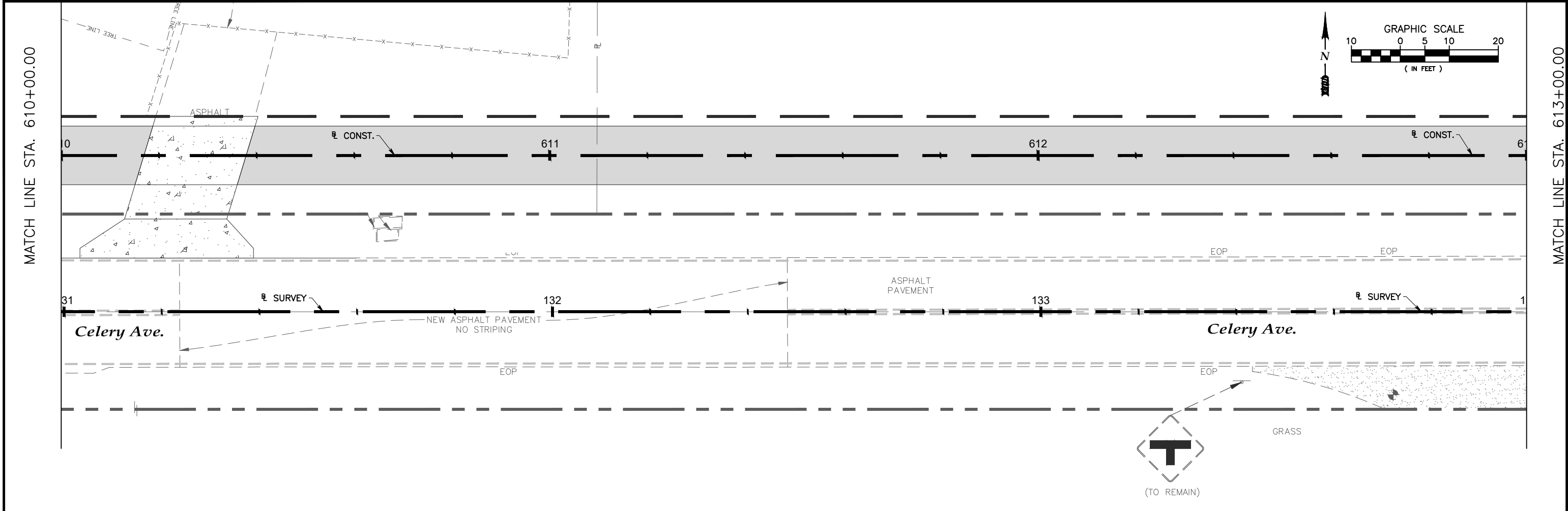
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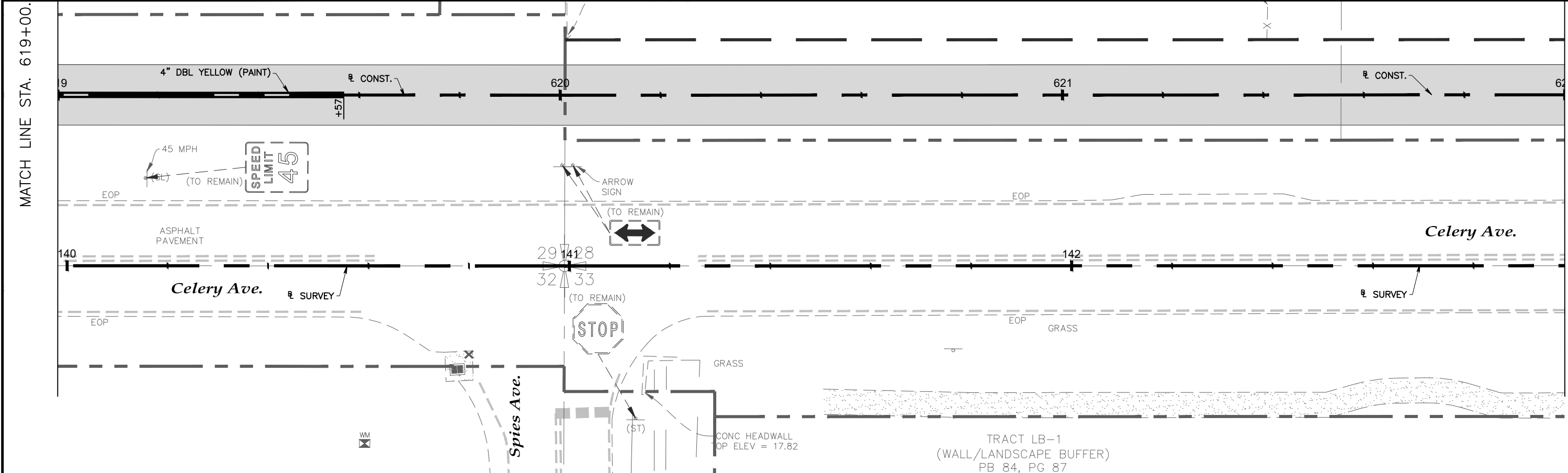
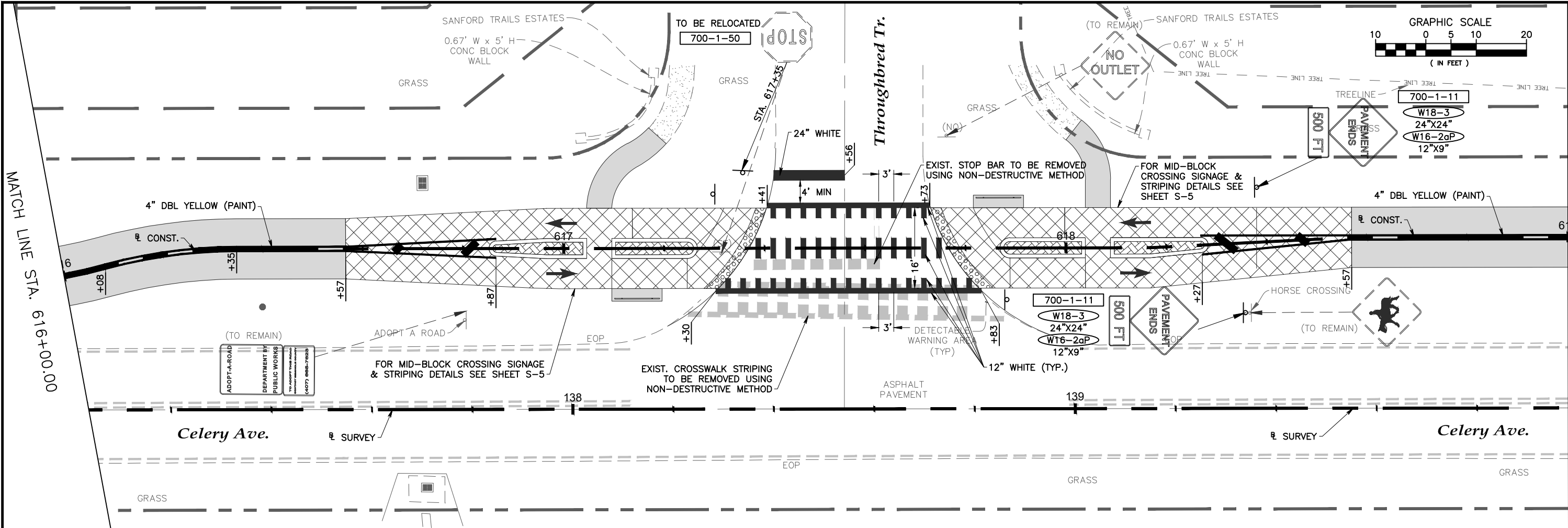
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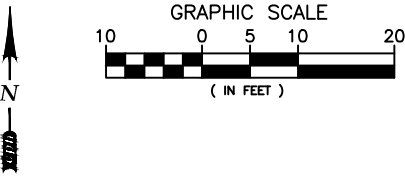
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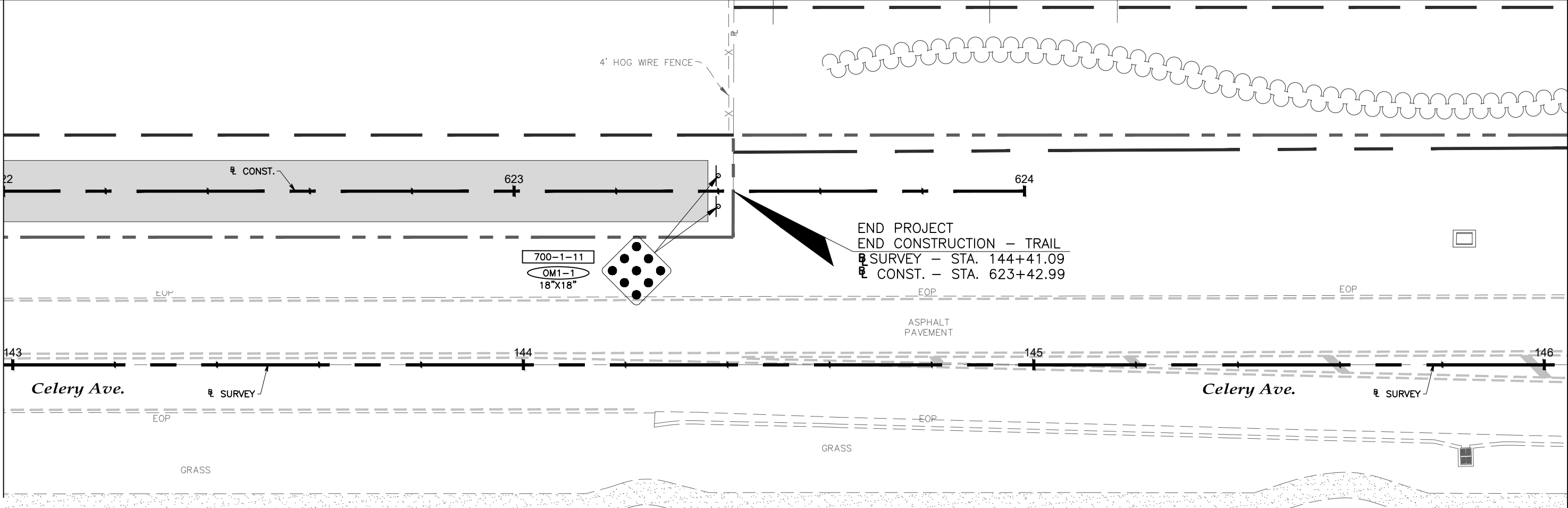
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Sheet No.
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DEFINITION OF ENTITIES:

1. 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.

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.

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Lake Monroe Trail Loop

Seminole County

Phase I

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FL P.E. No. 73150

Traffic Control Plan

General Notes

Sheet No.

TCP-1