



SEMINOLE COUNTY, FLORIDA
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

CONTRACT PLANS COMPONENTS
ROADWAY AND DRAINAGE PLANS

INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	SUMMARY OF PAY ITEMS
4-5	DRAINAGE MAP
6-7	TYPICAL SECTIONS
8	TYPICAL SECTION DETAILS
9	PROJECT LAYOUT
10	GENERAL NOTES
11-19	PLAN/PROFILE SHEETS
20-22	DRAINAGE STRUCTURES
23-52	CROSS SECTIONS
53-62	DRIVEWAY SECTIONS
63-65	STORMWATER POLLUTION PREVENTION PLAN
66-75	EROSION CONTROL PLAN
76-84	UTILITY ADJUSTMENTS
SQ-1 - SQ-11	SUMMARY OF QUANTITIES

GOVERNING STANDARDS PLANS:

Florida Department of Transportation, FY2024-25 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: <http://www.fdot.gov/design/standardplans>

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY 2024-25 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

BOARD OF COUNTY COMMISSIONERS

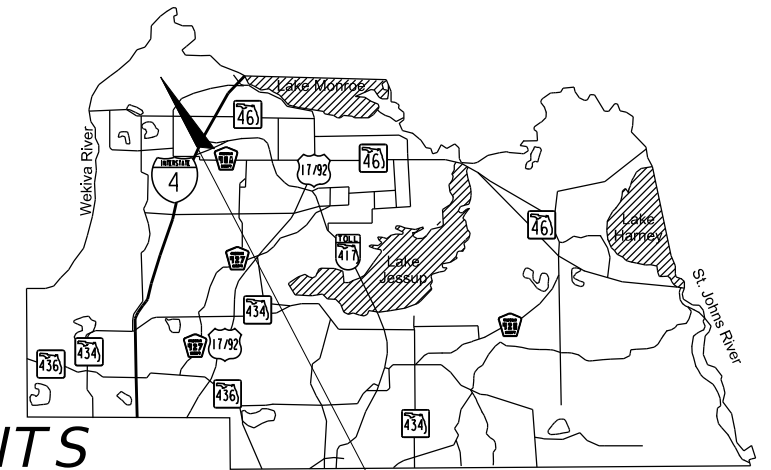
BOB DALLARI	DISTRICT 1
JAY ZEMBOWER	DISTRICT 2
LEE CONSTANTINE	DISTRICT 3
AMY LOCKHART	DISTRICT 4
ANDRIA HERR	DISTRICT 5

DARREN GRAY, COUNTY MANAGER

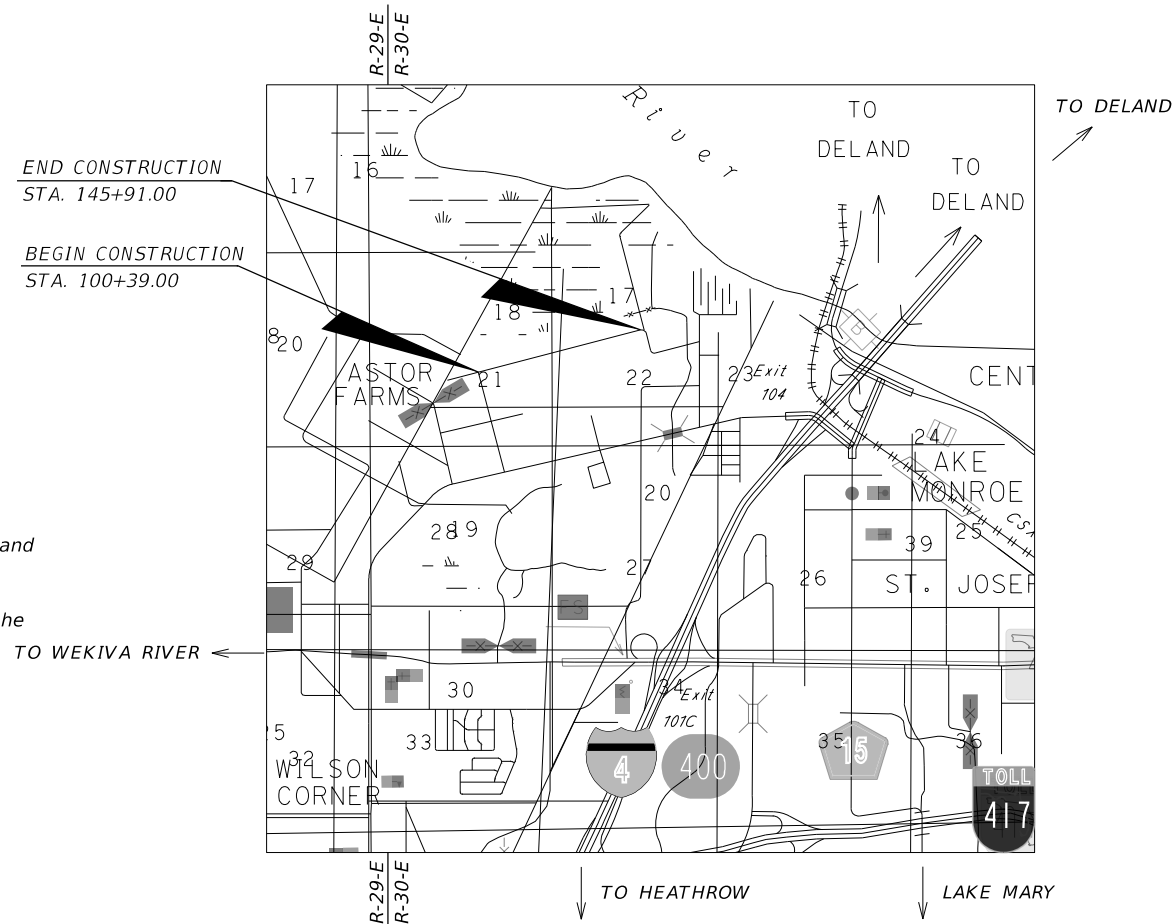
SEMINOLE COUNTY
PROJECT MANAGER:

Joseph LoFaso, P.E.

PUBLIC WORKS DIRECTOR:
JOHN SLOT



PROJECT LOCATION



PLANS PREPARED BY:

ARDURRA
3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
Certificate of Authorization No. 2610
Vendor Number 59-1782900
p 407.971.8850 f 407.971.8955

NOTE: THE SCALE OF THESE PLANS MAY
HAVE CHANGED DUE TO REPRODUCTION.

PHASE III PLANS
MARCH 2025

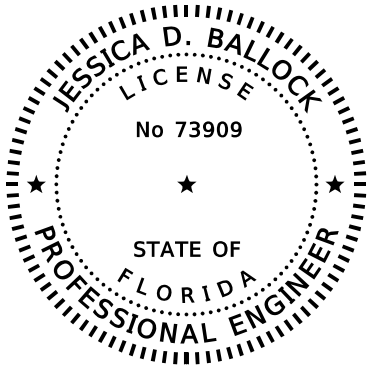
ROADWAY PLANS
ENGINEER OF RECORD: JESSICA D. BALLOCK, P.E.

P.E. NO. 73909

SHEET
NO.

1

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



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

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

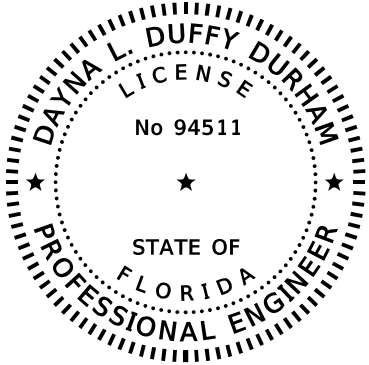
ARDURRA GROUP, INC.
3452 LAKE LYNDA DRIVE, SUITE 200
ORLANDO, FL 32817
JESSICA D. BALLOCK, P.E. NO. 73909

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

SHEET NO.

SHEET DESCRIPTION

1	KEY SHEET
2	SIGNATURE SHEET
3	SUMMARY OF PAY ITEMS
6-7	TYPICAL SECTIONS
8	TYPICAL SECTION DETAILS
9	PROJECT LAYOUT
10	GENERAL NOTES
11-19	PLAN/PROFILE SHEETS
23-52	CROSS SECTIONS
53-62	DRIVEWAY SECTIONS
76-84	UTILITY ADJUSTMENTS
SQ-1 - SQ-9	SUMMARY OF QUANTITIES



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

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

ARDURRA GROUP, INC.
3452 LAKE LYNDA DRIVE, SUITE 200
ORLANDO, FL 32817
DAYANA L. DUFFY DURHAM, P.E. NO. 94511

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

SHEET NO.

SHEET DESCRIPTION

2	SIGNATURE SHEET
4-5	DRAINAGE MAP
20-22	DRAINAGE STRUCTURES
63-65	STORMWATER POLLUTION PREVENTION PLAN
66-75	EROSION CONTROL PLAN

REVISIONS						 Jessica D. Ballock, PE 3452 Lake Lynda Drive, Suite 200 PE No. 73909 Orlando, Florida 32817 Certificate of Authorization No. 555540 p 407.971.8850	 ROAD NO. COUNTY CIP NO.		SIGNATURE SHEET	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					
							MICHIGAN AVE.	02407100		2

SUMMARY OF PAY ITEMS (ROADWAY)				
PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	
			P	F
101-1	MOBILIZATION	LS	1	
102-1	MAINTENANCE OF TRAFFIC	LS	1	
104-10-3	SEDIMENT BARRIER	LF	2915	
104-12	STAKED TURBIDITY BARRIER- NYLON REINFORCED PVC	LF	3807	
104-15	SOIL TRACKING PREVENTION DEVICE	EA	1	
110-1-1	CLEARING AND GRUBBING	LS	1	
110-7-2	MAILBOX, RELOCATION	EA	1	
120-1	REGULAR EXCAVATION	CY	4423	
120-6	EMBANKMENT	CY	3999	
160-4	TYPE B STABILIZATION, 12"	SY	5330	
285-704	OPTIONAL BASE, BASE GROUP 04 (TYPE B-12.5 ONLY)	SY	4650	
334-1-12	SUPERPAVE ASPHALTIC CONCRETE, SP-12.5, TRAFFIC B	TN	371.2	
425-1-521	INLETS, DT BOT, TYPE C, <10'	EA	4	
430-174-224	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 24"SD	LF	131	
430-174-230	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 30"SD	LF	184	
430-174-236	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 36"SD	LF	168	
430-175-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"S/CD	LF	602	
430-175-224	PIPE CULVERT,OPTIONAL MATERIAL,OTHER SHAPE-ELIP/ARCH, 24"S/CD	LF	181	
430-175-242	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 42"S/CD	LF	32	
430-524-202	STRAIGHT CONCRETE ENDWALLS, 24", DOUBLE, 0 DEGREES, ELLIPTICAL	EA	1	
430-542-102	STRAIGHT CONCRETE ENDWALLS, 42", SINGLE, 0 DEGREES, ELLIPTICAL	EA	1	
430-982-125	MITERED END SECTION, OPTIONAL ROUND, 18" CD	EA	1	
430-982-629	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 24" CD	EA	18	
430-982-633	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 30" CD	EA	14	
430-982-638	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 36" CD	EA	14	
430-982-640	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 42" CD	EA	1	
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	706.1	
550-10	FENCING	LF	1954	
570-1-2	PERFORMANCE TURF - SOD	SY	15761	
700-1-500	SINGLE COLUMN GROUND SIGN ASSEMBLY, RELOCATE	EA	10	

PAY ITEM NOTES

- 102-1

INCLUDES ALL ITEMS AND LABOR NECESSARY FOR THE IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN DESIGNED BY CONTRACTOR AND APPROVED BY SEMINOLE COUNTY ENGINEERING. THE CONTRACTOR SHALL NOTIFY SURROUNDING RESIDENCE AND BUSINESSES OF THE CONSTRUCTION BY FLYER APPROVED BY SEMINOLE COUNTY. ALSO INCLUDED THE COST OF DROP OFF PROTECTION WITHIN CLEAR ZONE DUE TO CONSTRUCTION OF SPECIAL DITCHES AND PROPOSED STORM WATER PIPES.
- 110-1-1

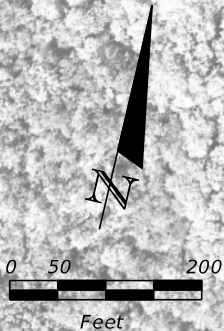
INCLUDES THE COST OF REMOVAL AND DISPOSAL OF ALL OBSTRUCTIONS, SUCH AS VEGETATION, DEBRIS, TRIMMING OF TREES AND SHRUBS, ROOT REMOVAL,WALLS, FENCES, PAVEMENT, AND ALL OTHER ITEMS IN ORDER TO CONSTRUCT THE PROJECT. INCLUDES THE COST OF DRAINAGE STRUCTURES AND PIPE REMOVAL AS INDICATED BY THE PLANS.
- 550-10

INCLUDES COSTS OF ALL WORK AND MATERIALS REQUIRED FOR RELOCATION AND REPLACEMENT OF EXISTING FENCE AND ASSOCIATED FENCE GATES, IN-KIND. ALSO INCLUDES COSTS OF ANY NECESSARY TEMPORARY FENCING REQUIRED FOR SECURITY OF LIVESTOCK, PROTECTION OF ADJACENT PRIVATE PROPERTY, ETC.
- 570-1-2

INCLUDES THE COST AND APPLICATION OF FERTILIZER AND WATER IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. TYPES OF SOD MAY VARY. CONTRACTOR TO MATCH EXISTING SOD.

REVISIONS						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		SUMMARY OF PAY ITEMS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		3

EXISTING DRAINAGE STRUCTURES								
① PIPE N INV. 9.49 (18" RCP) S INV. 9.82 (18" RCP)	⑥ PIPE E INV. 6.41 (18" RCP) W INV. 7.40 (18" RCP)	⑪ PIPE E INV. 4.66 (18" RCP) W INV. 4.77 (18" RCP)						
② PIPE E INV. 7.89 (18" RCP) W INV. 8.14 (18" RCP)	⑦ PIPE E INV. 6.58 (18" HDPE) W INV. 6.43 (18" HDPE)	⑫ PIPE E INV. 6.31 (18" RCP) W INV. 7.77 (18" RCP)						
③ PIPE N INV. 7.21 (24" HDPE) S INV. 7.58 (24" HDPE)	⑧ PIPE E INV. 5.58 (18" RCP) W INV. 6.35 (18" RCP)	⑬ PIPE N INV. 4.74 (24" HDPE) S INV. 4.93 (24" HDPE)						
④ PIPE E INV. 8.42 (18" RCP) W INV. 8.80 (18" RCP)	⑨ PIPE NW INV. 6.75 (6" ABS) SE INV. 7.79 (6" ABS)	⑭ PIPE E INV. 6.99 (24" RCP) W INV. 6.90 (24" RCP)						
⑤ PIPE E INV. 7.94 (24" CMP) W INV. 8.31 (24" CMP)	⑩ PIPE E INV. 5.10 (24" HDPE) W INV. 5.25 (24" HDPE)	⑭A PIPE E INV. 6.79 (24" RCP) W INV. 6.98 (24" RCP)						



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.
Aerial Date: 11/2023

REVISIONS						Dayna Duffy Durham, PE 3452 Lake Lynda Drive, Suite 200 PE No. 94511 Orlando, Florida 32817 Certificate of Authorization No. 555540 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION ROAD NO. COUNTY CIP NO. MICHIGAN AVE. 02407100		DRAINAGE MAP SHEET NO. 4
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION				



EXISTING DRAINAGE STRUCTURES		
15 PIPE E INV. 3.36 (15" HDPE) W INV. 3.63 (15" HDPE)	20 PIPE E INV. 2.11 (15" RCP) W INV. 2.08 (15" RCP)	25 PIPE N INV. 1.20 (29"X45" RCP) S INV. 1.48 (29"X45" RCP)
16 PIPE N INV. 4.21 (18" RCP) S INV. 2.39 (18" RCP)	21 PIPE E INV. 0.30 (30" RCP) W INV. 0.27 (30" RCP)	25A PIPE N INV. 1.29 (29"X45" RCP) S INV. 1.35 (29"X45" RCP)
17 PIPE E INV. 1.87 (24" RCP) W INV. 2.21 (24" RCP)	22 PIPE E INV. 1.34 (36" RCP) W INV. 1.08 (36" RCP)	26 PIPE E INV. 1.90 (48" RCP) W INV. 1.43 (48" RCP)
18 PIPE E INV. 2.64 (24" CMP) W INV. 2.76 (24" CMP)	23 PIPE E INV. 2.50 (30" HDPE) W INV. 2.85 (30" HDPE)	26A PIPE E INV. 1.36 (48" RCP) W INV. 1.37 (48" RCP)
19 PIPE E INV. 3.03 (24" CMP) W INV. 3.38 (24" CMP)	24 PIPE E INV. 1.66 (24" HDPE) W INV. 1.84 (24" HDPE)	

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.
Aerial Date: 11/2023

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



ARDURRA

Dayna Duffy Durham, PE 3452 Lake Lynda Drive, Suite 200
PE No. 94511 Orlando, Florida 32817
Certificate of Authorization No. 555540 p 407.971.8850

SEMINOLE COUNTY
ENGINEERING DIVISION

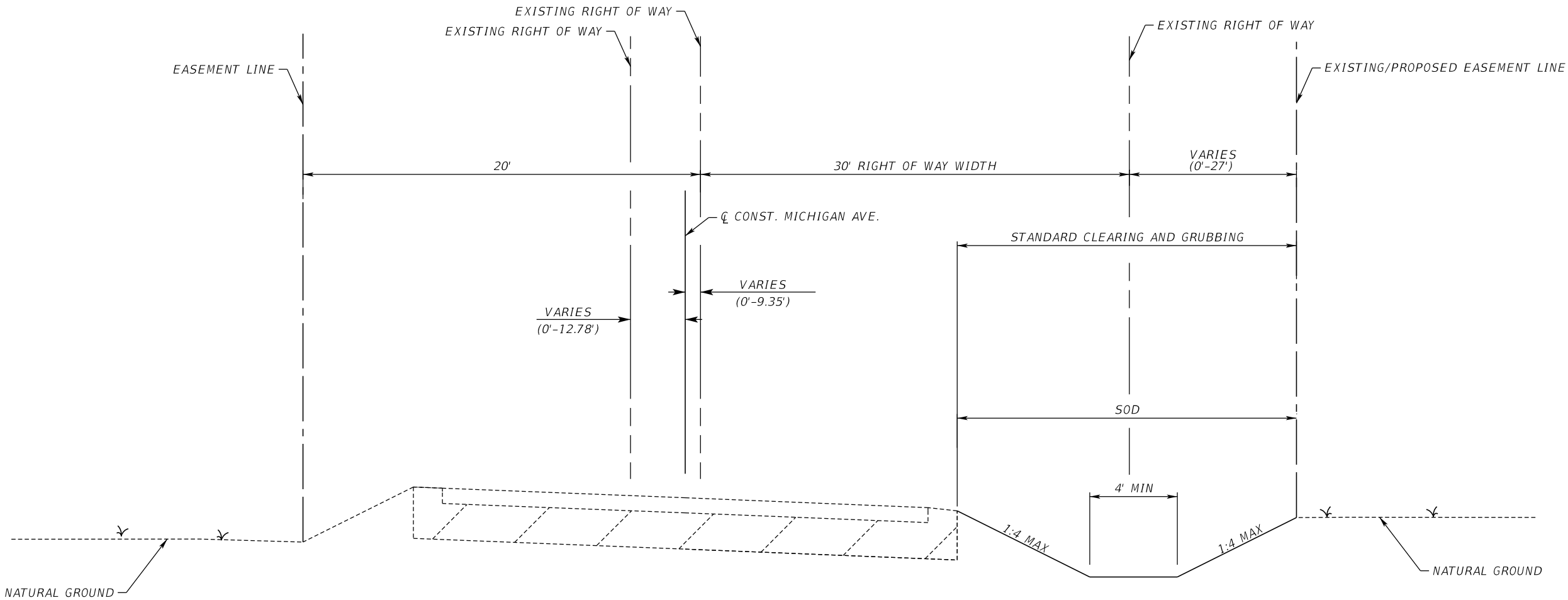
ROAD NO.	COUNTY CIP NO.
MICHIGAN AVE.	02407100

DRAINAGE MAP

SHEET NO.

5

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



TYPICAL SECTION 1
MICHIGAN AVENUE
DESIGN SPEED = 25 MPH
STA. 102+00.00 TO STA. 106+65.00
STA. 116+87.25 TO STA. 129+50.00
STA. 139+25.00 TO STA. 145+91.00

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850

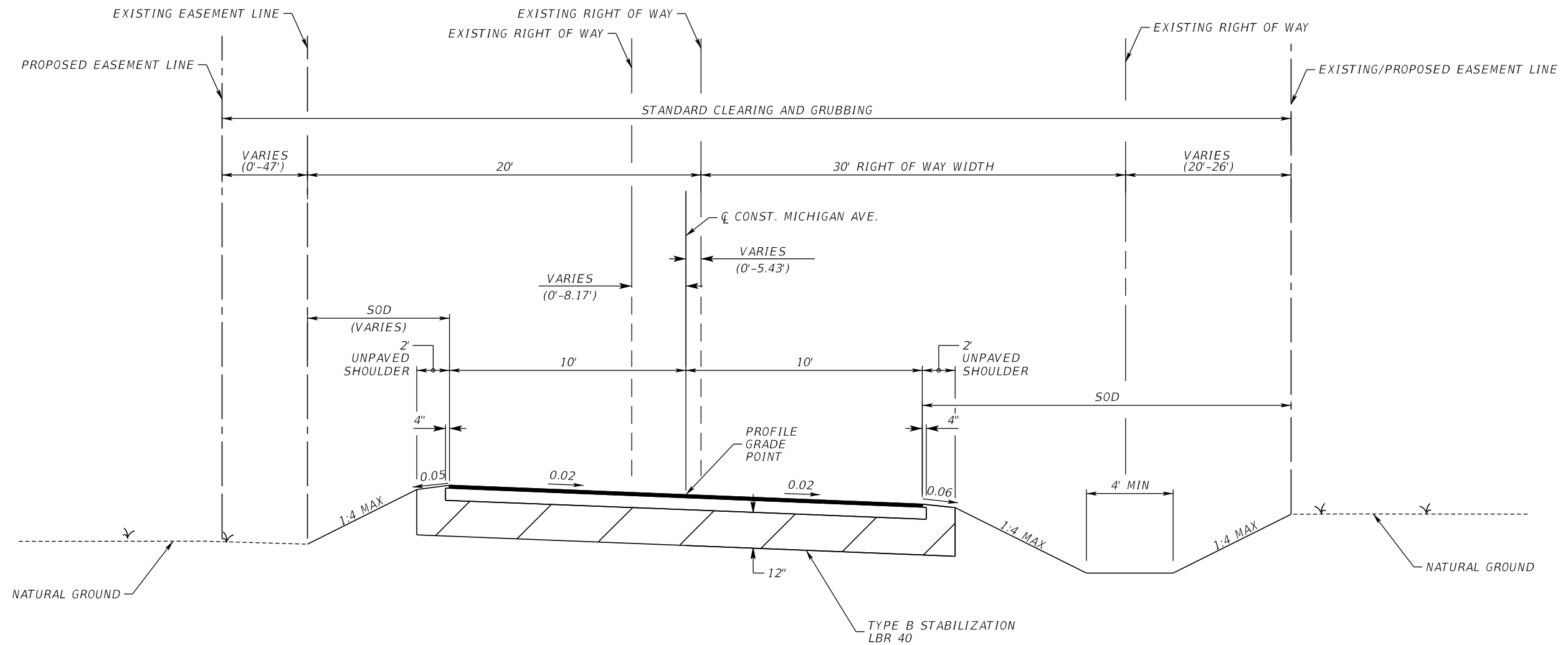
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO.	COUNTY CIP NO.
MICHIGAN AVE.	02407100

TYPICAL SECTION

6

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



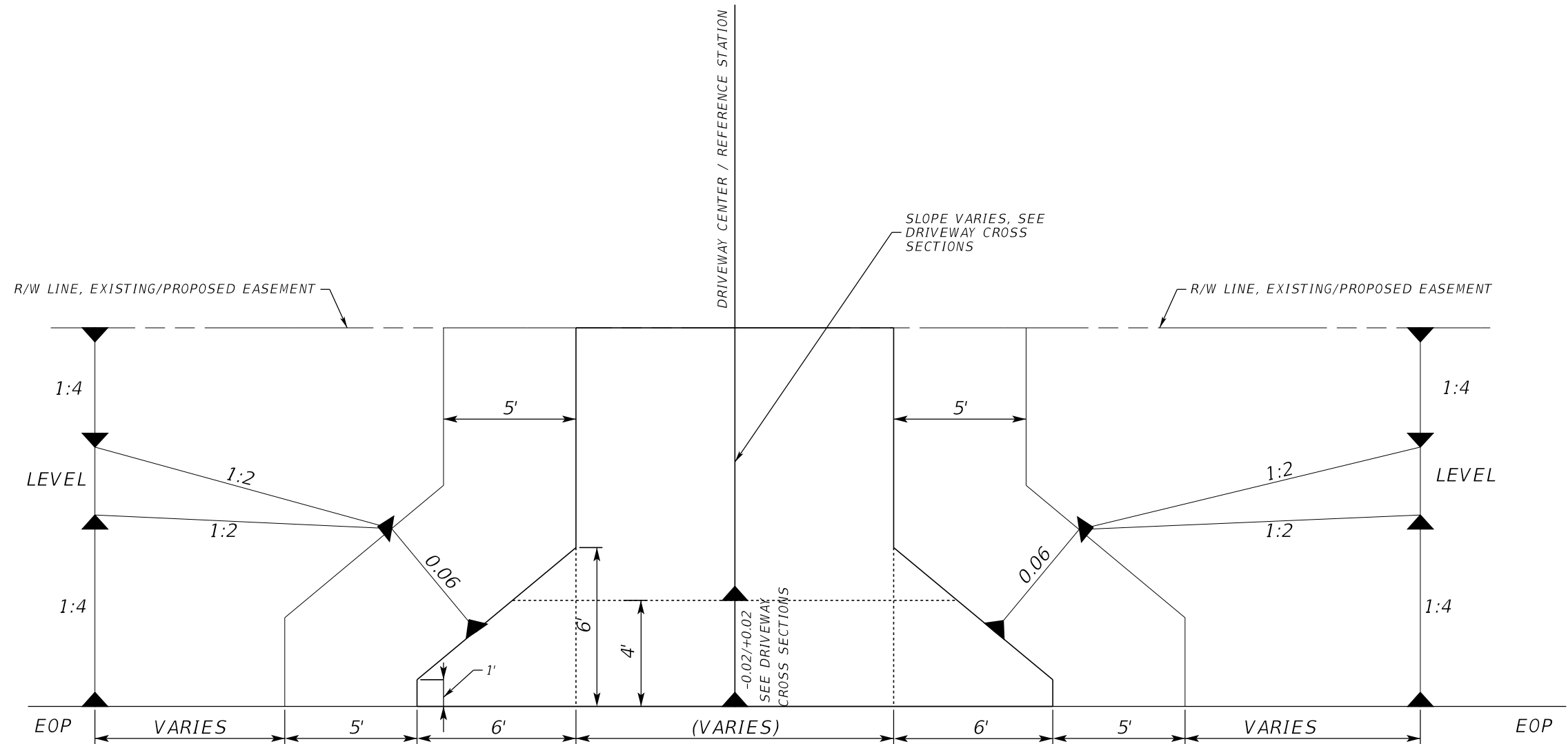
TYPICAL SECTION 2
MICHIGAN AVENUE
DESIGN SPEED = 25 MPH

STA. 106+65.00 TO STA. 116+87.25
STA. 129+50.00 TO STA. 139+25.00

NEW CONSTRUCTION

OPTIONAL BASE GROUP 4 (TYPE B-12.5 ONLY)
AND TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC B) (1.5")

REVISIONS						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540	3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		TYPICAL SECTION	SHEET NO. 7
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY CIP NO.		
								MICHIGAN AVE.	02407100		



MICHIGAN AVENUE DRIVEWAY DETAILS

SEE PLANS FOR LOCATIONS

DRIVEWAY NOTES:

1. ALL DRIVEWAYS SHALL BE 6" THICK CONCRETE UNLESS OTHERWISE SHOWN IN THE PLANS.
2. THE CONTRACTOR SHALL SAW CUT AND REMOVE ANY ASPHALT APRON THAT IS WITHIN THE LIMITS OF THE NEW CONCRETE DRIVEWAY.
3. THE CONTRACTOR SHALL SOD ANY AREA DISTRIBUTED NOT COVERED BY CONCRETE.
4. REFER TO DRIVEWAY CROSS SECTIONS FOR PROPOSED GRADES.
5. FOR DRIVEWAYS ON THE NORTH SIDE, TIE TO EXISTING GRADE WITH A 1:4 SLOPE FOLLOWING THE 6% SLOPE IN THE DETAIL.

REVISIONS						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540	3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		TYPICAL SECTION DETAILS		SHEET NO. 8
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY CIP NO.			
								MICHIGAN AVE.	02407100			

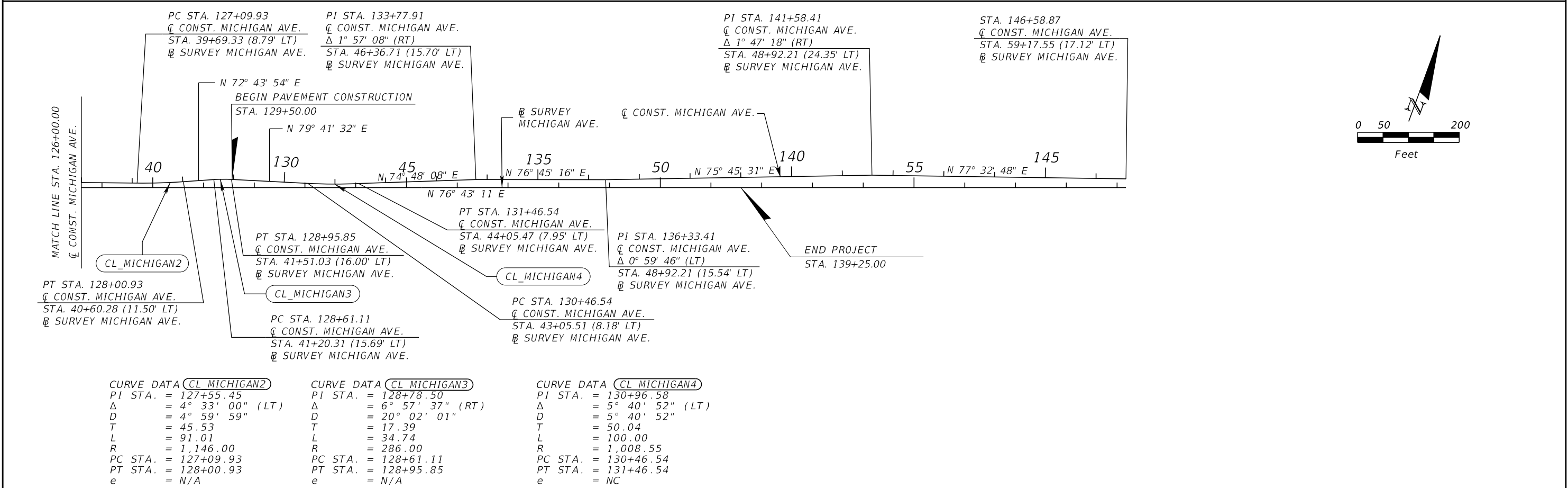
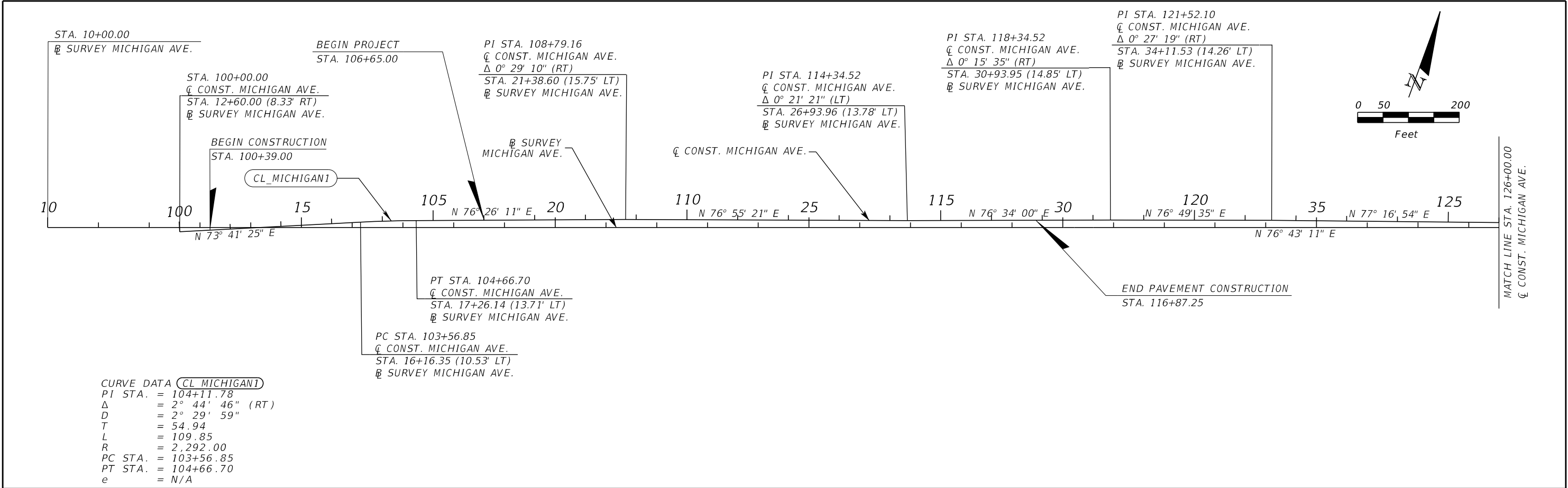
aalsaffar

3/7/2025

9:50:34 AM

F:\Projects\SEM-035-05\roadway\TYP SRD02.dgn

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



REVISIONS							SEMINOLE COUNTY ENGINEERING DIVISION		PROJECT LAYOUT	SHEET NO. 9
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		
						Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540	3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	MICHIGAN AVE.	02407100	

GENERAL NOTES

- BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- THE CONTRACTOR IS TO OBTAIN A CONSTRUCTION PERMIT ONE (1) WEEK PRIOR TO CONSTRUCTION FROM SEMINOLE COUNTY PUBLIC WORKS ENGINEERING DIVISION FOR "RIGHT-OF-WAY UTILIZATION". CONTACT SEMINOLE COUNTY PERMIT COORDINATOR AT 100 E. FIRST STREET, SANFORD, FL, 32771 TELEPHONE (407) 665-7409. NO FEE REQUIRED.
- ALL CONSTRUCTION PROCEDURES, MATERIALS, INSPECTION, AND TESTING SHALL, AT A MINIMUM, CONFORM TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND FDOT DESIGN STANDARDS UNLESS OTHERWISE NOTED.
- ALL PERSONAL PROPERTY WITHIN THE RIGHT-OF-WAY SHALL BE RELOCATED BY THE PROPERTY OWNER OR IT SHALL BE REMOVED BY THE CONTRACTOR AS NECESSARY TO CONSTRUCT THE PROJECT IN ACCORDANCE WITH THE PLANS. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY CONSTRUCTION WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING PRE-CONSTRUCTION CONDITION, UNLESS SPECIFICALLY EXEMPT BY THE PLANS.
- SHRUBS THAT CONFLICT WITH THE PROPOSED DESIGN SHALL BE REMOVED. NO TREES ARE TO BE REMOVED WITHOUT THE APPROVAL FROM THE SEMINOLE COUNTY PROJECT MANAGER.
- ANY DRAINAGE PROBLEMS EXISTING BEFORE AND DURING CONSTRUCTION SHOULD BE BROUGHT TO THE ATTENTION OF THE SEMINOLE COUNTY ENGINEERING INSPECTOR IMMEDIATELY.
- ALL EXISTING DRAINAGE STRUCTURES ARE TO BE REMOVED UNLESS OTHERWISE SPECIFIED IN THE PLANS. EXISTING DRAINAGE PATTERNS SHALL BE MAINTAINED AND EXISTING DRAINAGE STRUCTURES AND FACILITIES SHALL BE MAINTAINED AND FULLY FUNCTIONAL DURING CONSTRUCTION.
- TEMPORARY DRAINAGE SHALL BE PROVIDED BY THE CONTRACTOR DURING CONSTRUCTION TO ELIMINATE ANY FLOODING OF PRIVATE PROPERTY. COST FOR TEMPORARY DRAINAGE ITEMS SHALL BE INCLUDED UNDER 102-1.
- SOIL MATERIALS USED FOR FILL OR GRADING ACTIVITIES SHALL BE APPROVED BY THE SEMINOLE COUNTY ENGINEERING INSPECTOR PRIOR TO USE.
- THE CONTRACTOR SHALL NOTIFY THE SEMINOLE COUNTY ENGINEERING INSPECTOR FOR A FIELD INSPECTION PRIOR TO PLACEMENT OF ANY CONCRETE.
- IRRIGATION LINES DAMAGED DURING CONSTRUCTION ARE TO BE CAPPED IMMEDIATELY AND REPORTED TO THE SEMINOLE COUNTY ENGINEERING INSPECTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND/OR REPLACE ALL DAMAGED IRRIGATION COMPONENTS TO THE PRE-CONSTRUCTION CONDITION AT HIS EXPENSE PRIOR TO COMPLETION OF THE PROJECT. COST TO BE INCLUDED IN 110-1-1.
- THE TESTING REQUIREMENTS FOR CLASS I CONCRETE WILL BE WAIVED UPON PRESENTATION TO THE INSPECTOR OF A WRITTEN CERTIFICATION FROM THE PLANT THAT THE CONCRETE IS A 3000 PSI CONCRETE MIX.
- THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION DEBRIS PRIOR TO COMPLETION OF THE PROJECT.
- ANY NGVD-29 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE THE CONTRACTOR SHOULD NOTIFY THE FLORIDA DEPARTMENT OF NATURAL RESOURCES, BUREAU OF SURVEYS AND MAPPING, 3900 COMMONWEALTH BLVD., SUITE 309, TALLAHASSEE, FLORIDA 32399. TELEPHONE (904) 488-2427.
- ANY PUBLIC LAND CORNER OR COUNTY MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHOULD NOTIFY THE SEMINOLE COUNTY SURVEYOR IMMEDIATELY BY TELEPHONE. CONTACT MR. STEVE WESSELS AT SEMINOLE COUNTY PUBLIC WORKS/ ENGINEERING, 205 W. COUNTY HOME ROAD, SANFORD, FL, 32773. TELEPHONE (407) 665-5656.
- ANY MAILBOX CONFLICTING WITH THE CONSTRUCTION OF THE PROJECT IS TO BE RELOCATED BY THE CONTRACTOR IN ACCORDANCE WITH FDOT STANDARD PLANS 110-200. NEW LOCATIONS TO BE COORDINATED WITH LOCAL POST OFFICE. REPLACEMENT OF MAILBOXES SHALL HAVE A MINIMUM 3" HIGH NUMBERS REPLACED ON BOTH SIDES OF THE MAILBOX, PER SEMINOLE COUNTY ORDINANCE 90.5 (6). PER USPS DO 41.2.4. IF THE MAILBOX IS ON A DIFFERENT STREET FROM THE COSTUMER'S RESIDENCE, THE SHEET NAME AND HOUSE SHALL BE INSCRIBED ON THE BOX ON BOTH SIDES.

UTILITY NOTES

- EXISTING UTILITY LOCATIONS SHOWN IN THE PLANS ARE ONLY APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL EXISTING UNDERGROUND UTILITIES LOCATED IN THE FIELD AND NOTIFY ALL UTILITY OWNERS PUBLIC OR PRIVATE, WITH FACILITIES IN THE AREA OF CONSTRUCTION ACTIVITIES FOR POSSIBLE CONFLICTS AND COORDINATE ANY ADJUSTMENTS AND/OR RELOCATION. ALL NOTIFICATIONS TO BE MADE ONE WEEK PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. (CONTACT SUNSHINE STATE ONE CALL AT 1-800-432-4770).
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE CURRENT STATE OF FLORIDA UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT AND/OR RELATED STATE LAW. THE FOLLOWING INFORMATION IS BEING PROVIDED BY SEMINOLE COUNTY IN A EFFORT TO ASSIST THE CONTRACTOR BY LISTING UTILITIES THAT MAY PROVIDE SERVICE IN THE APPROXIMATE AREA OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHOULD ASSUME OTHER UTILITIES THAT ARE NOT LISTED BELOW MAY PROVIDE SERVICE IN THE APPROXIMATE AREA OF THE PROPOSED CONSTRUCTION.

UTILITY AGENCY OWNER:	CONTACT:	EMAIL / TELEPHONE NUMBER:
AT&T DISTRIBUTION	KIRBY SPENCER	KS2488@ATT.COM
CHARTER COMMUNICATIONS	TROY PFEIFFER	TROY.PFEIFFER@CHARTER.COM
DUKE ENERGY TRANSMISSION	AARON ROGERS	AROGERS@PIKE.COM
FLORIDA GAS TRANSMISSION	JOE SANCHEZ	JOSEPH.E.SANCHEZ@ENERGYTRANSFER.COM
FLORIDA POWER & LIGHT - SEMINOLE	CHRIS BUONANNI	CHRISTOPHER.BUONANNI@FPL.COM
SEMINOLE COUNTY	JAMES VAN ALSTINE	JVANALSTINE@SEMINOLECOUNTYFL.GOV
WOW FIBER INTERNET	BROCK BRONSON	BROCKTON.BRONSON@WOWINC.COM
- THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY, THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN, INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

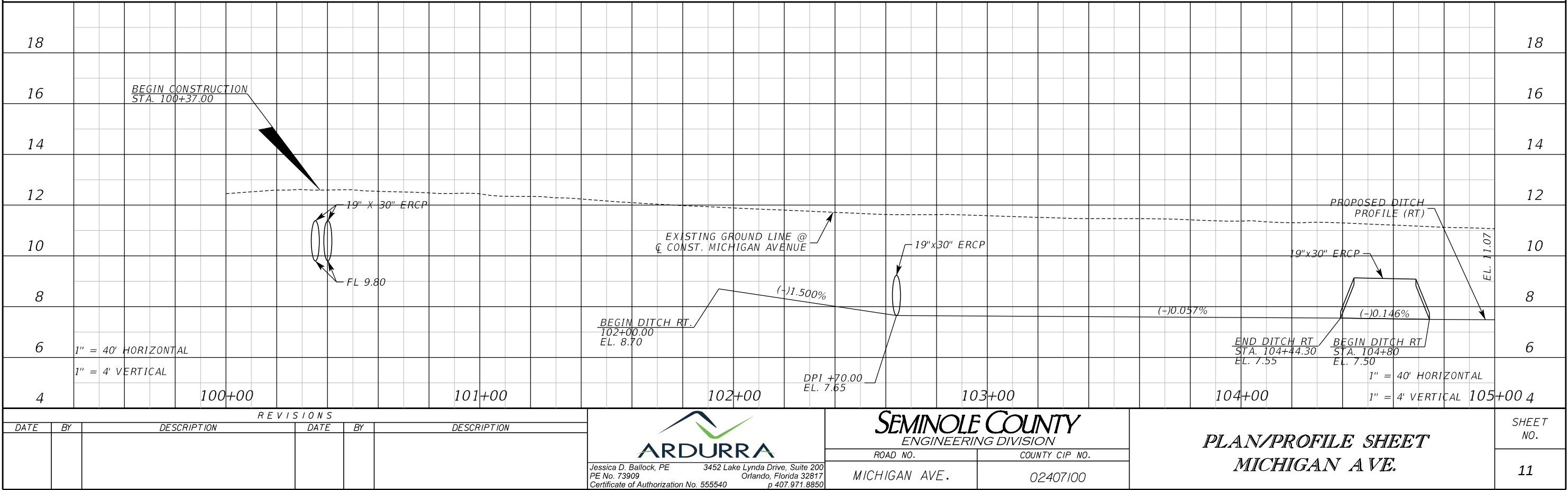
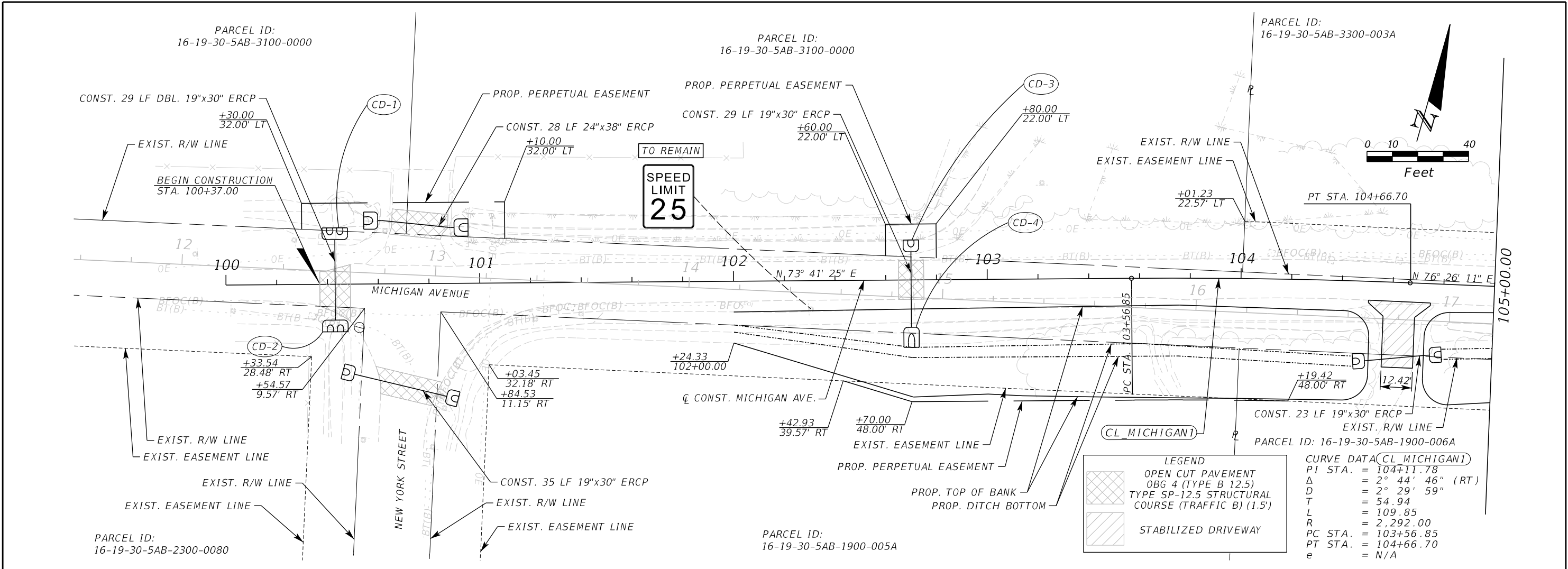
SIGNING NOTES

- SIGNING IS TO BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST PUBLISHED EDITION.
- CAUTION SHALL BE EXERCISED WHILE RELOCATING EXISTING SIGNS TO PREVENT UNNECESSARY DAMAGE TO SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE SEMINOLE COUNTY ENGINEERING INSPECTOR, SIGNS SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ALL SIGNS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS.
- CONFLICTS WITH UNFORESEEN UTILITIES MAY OCCUR DURING SIGN INSTALLATION. FIELD ADJUSTMENTS ARE ACCEPTABLE WITH THE APPROVAL OF THE ENGINEER.

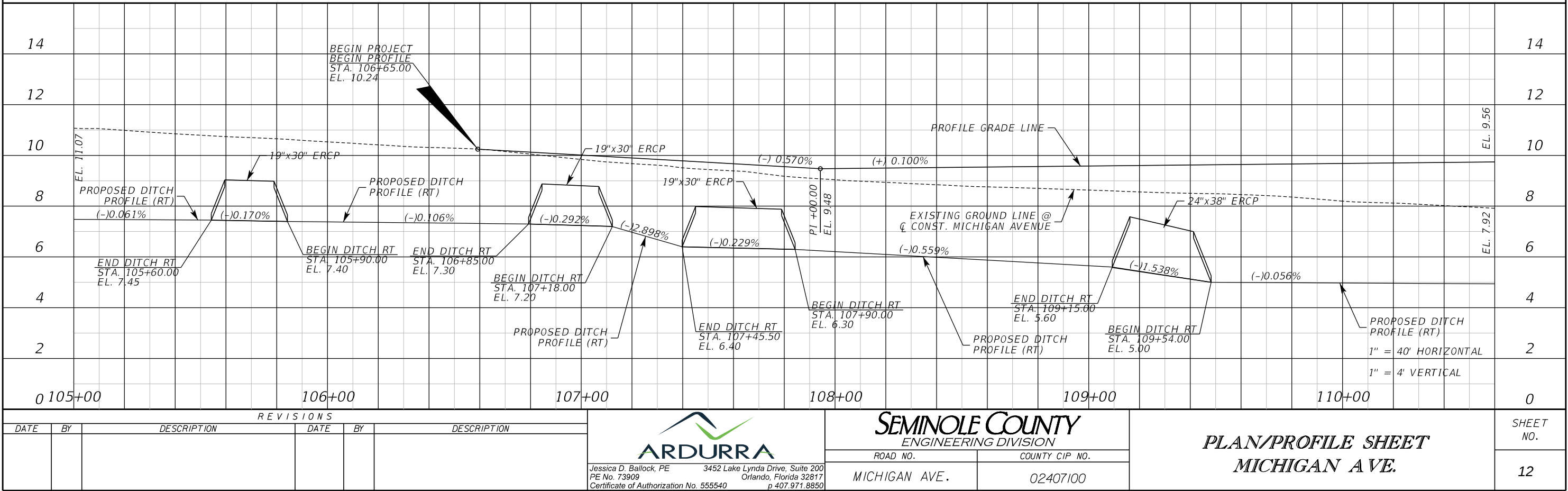
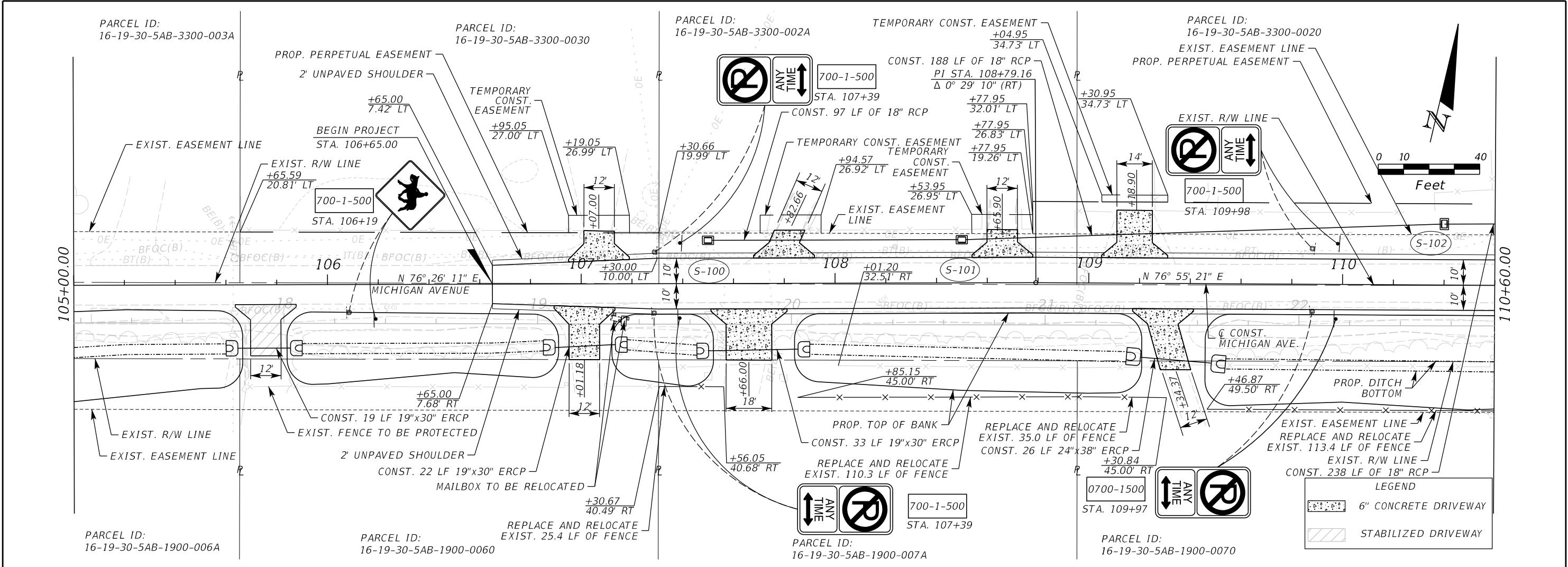
TEMPORARY TRAFFIC CONTROL NOTES

- THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST PUBLISHED EDITION) AND FDOT DESIGN STANDARDS AT ALL TIMES.

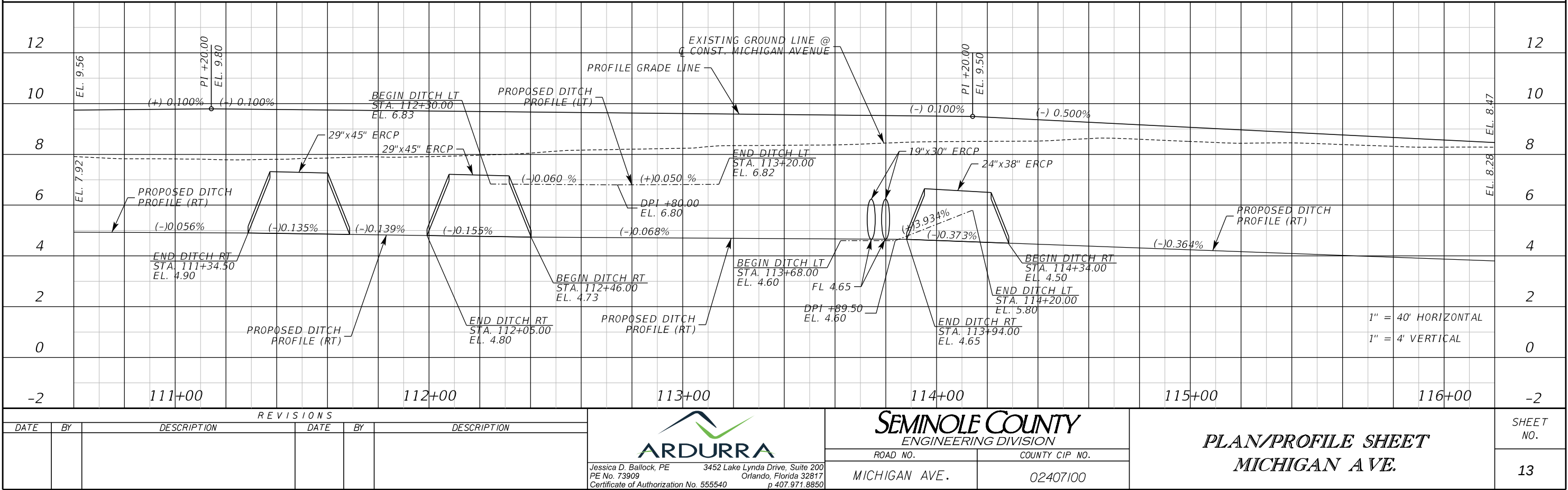
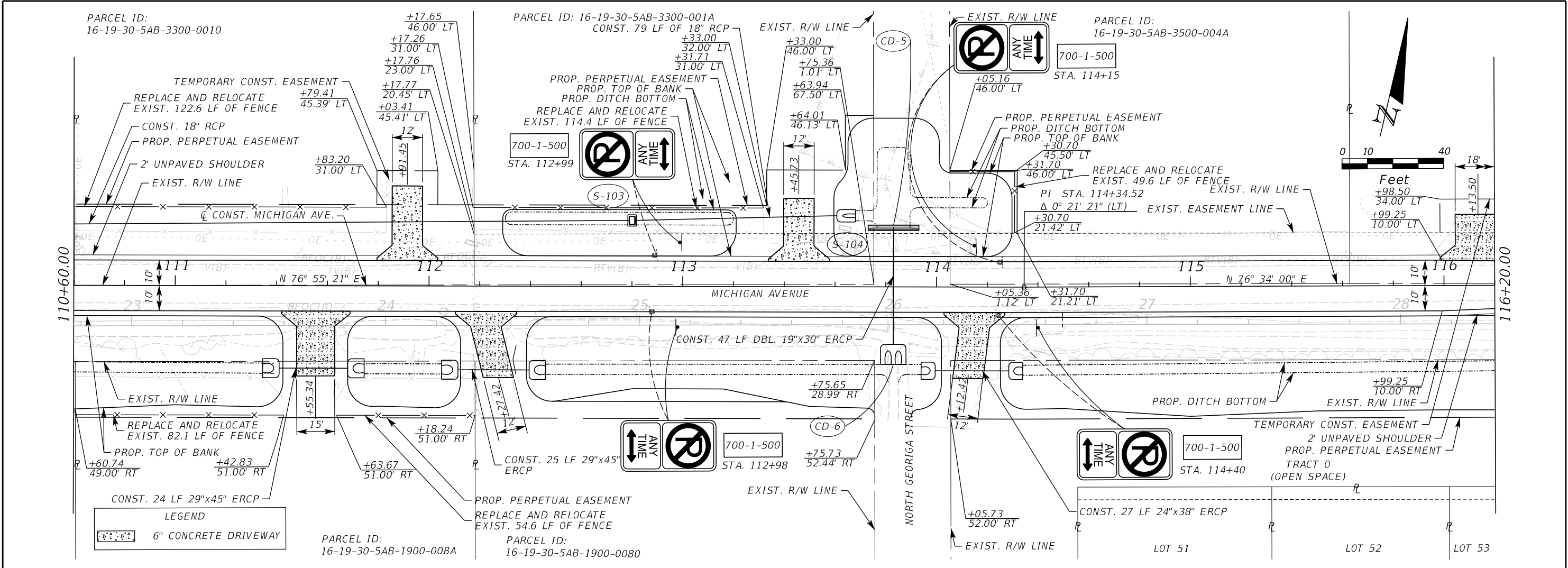
R E V I S I O N S						 Jessica D. Ballock, PE3452 Lake Lynda Drive, Suite 200PE No. 73909Orlando, Florida 32817Certificate of Authorization No. 555540p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		GENERAL NOTES	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO. COUNTY CIP NO.			10
							MICHIGAN AVE. 02407100			



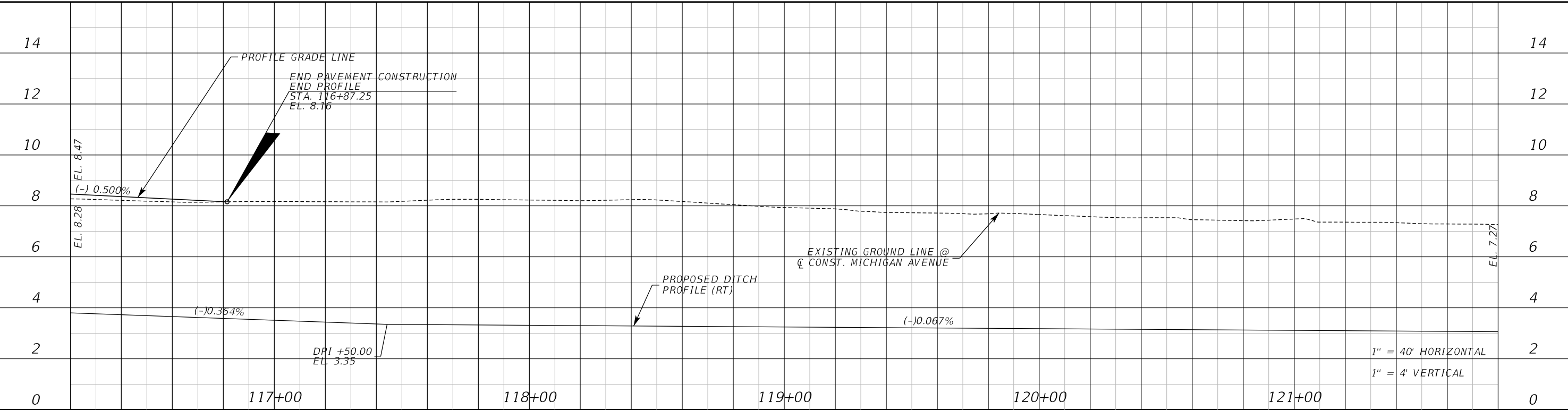
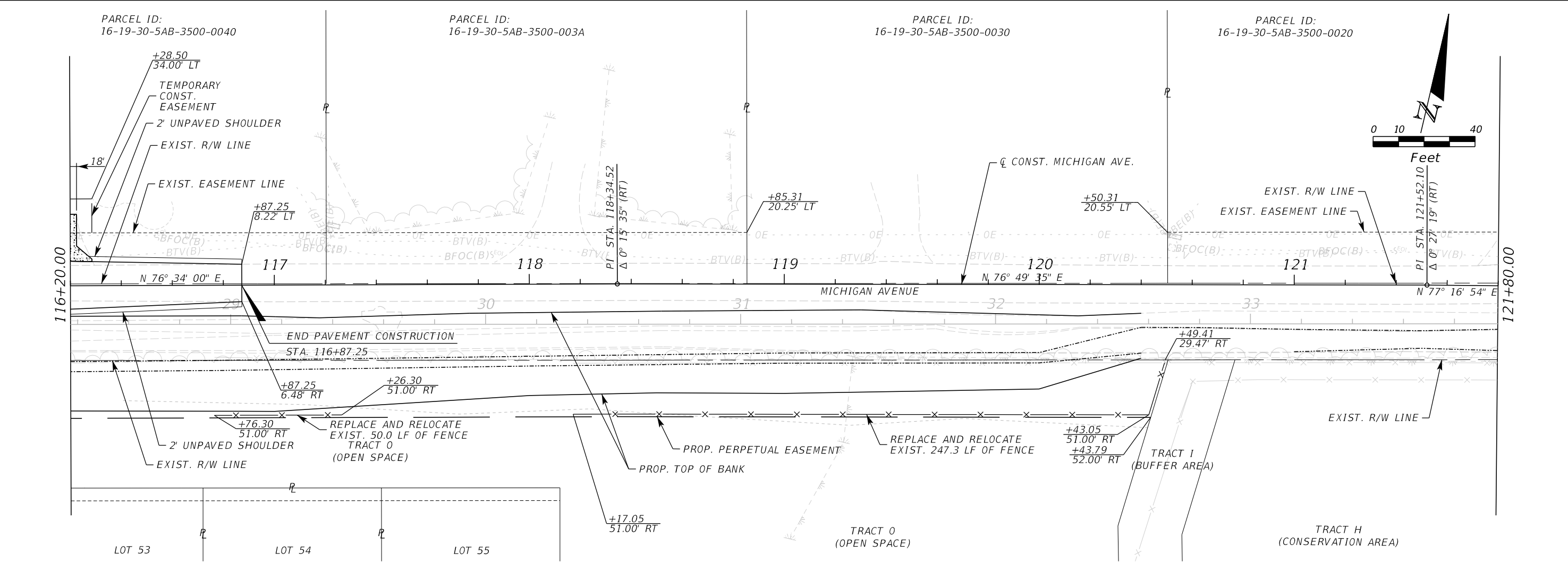
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



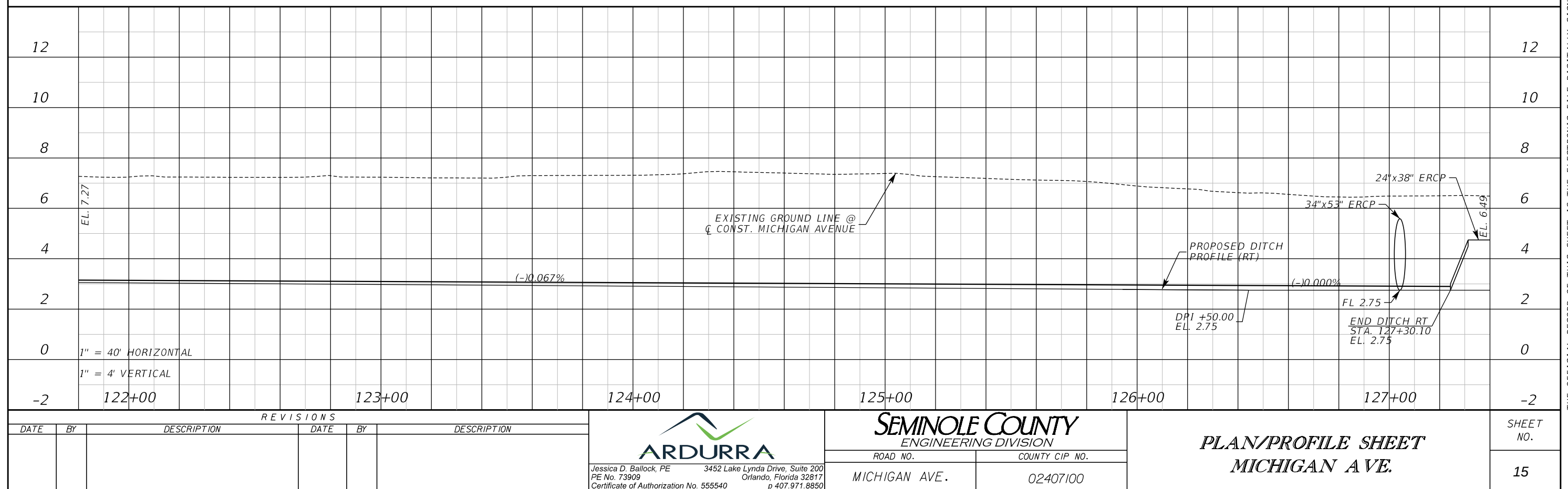
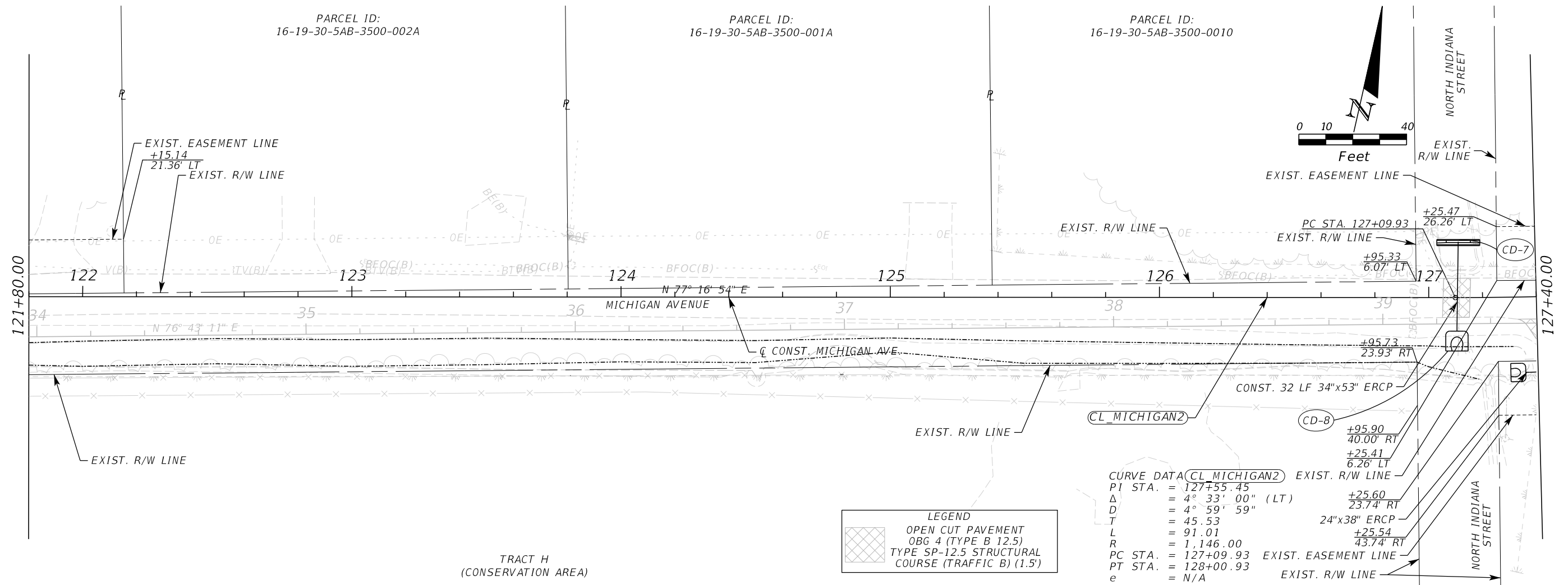
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

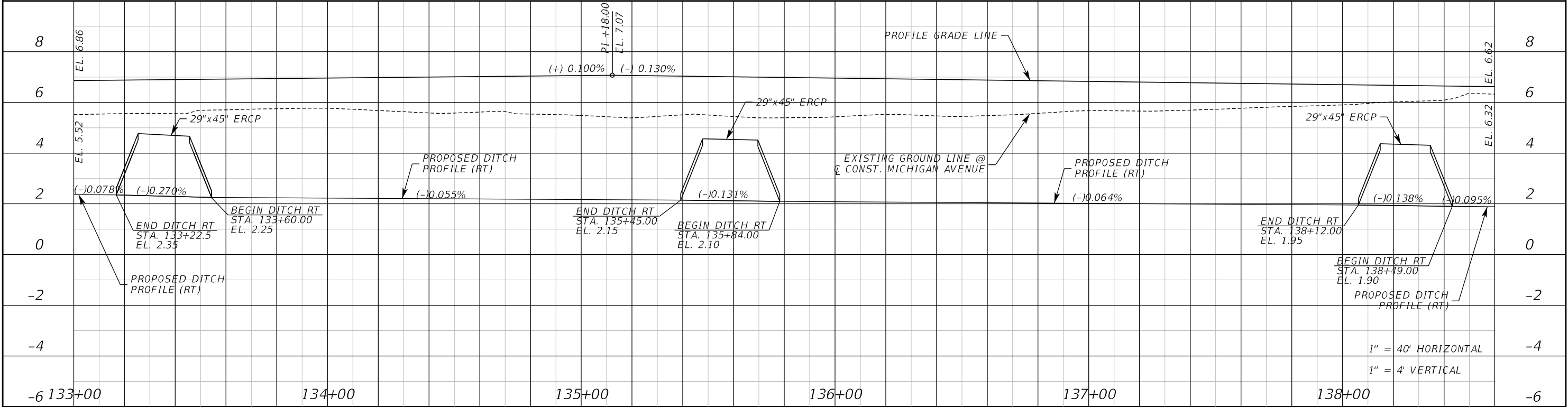
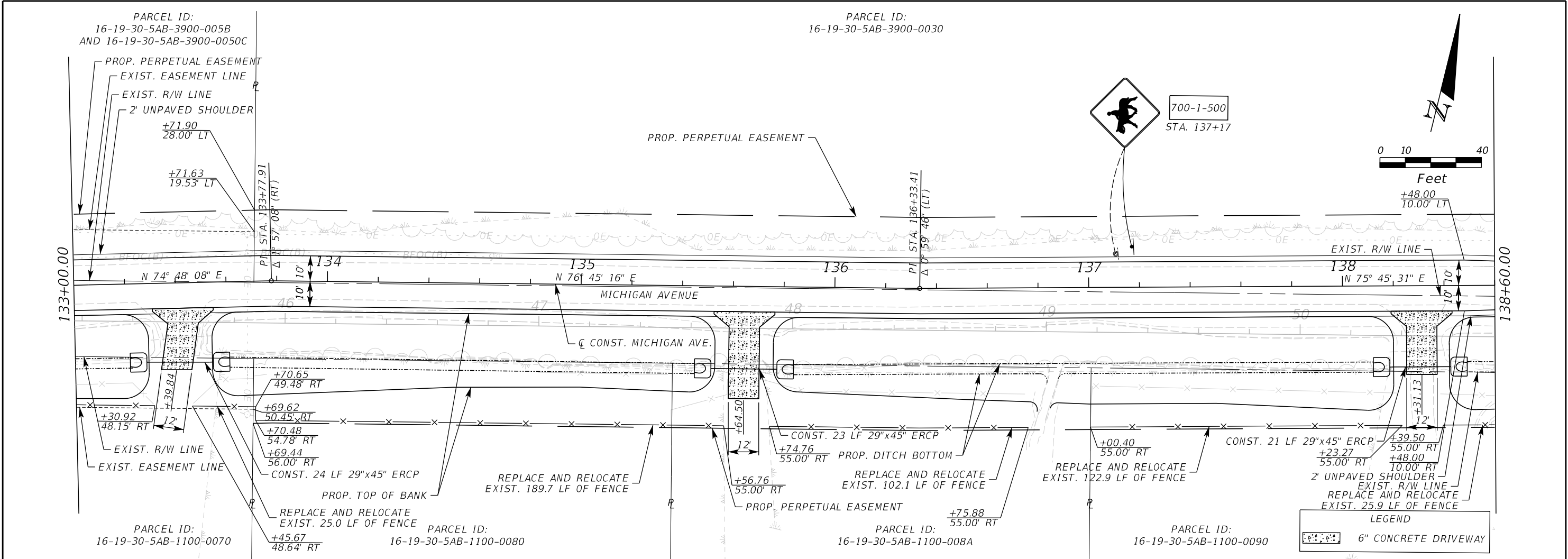


THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



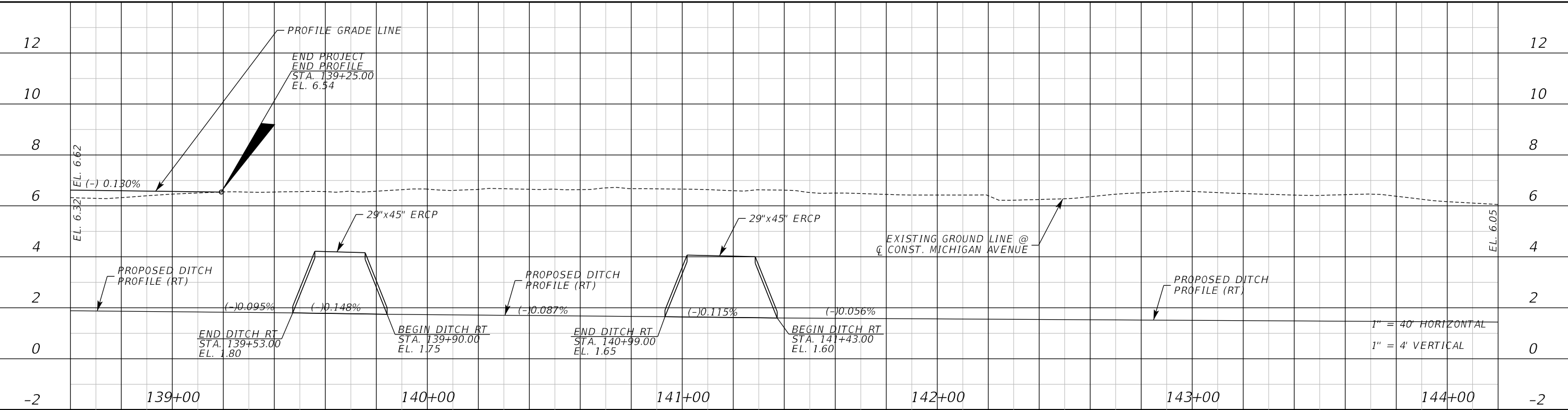
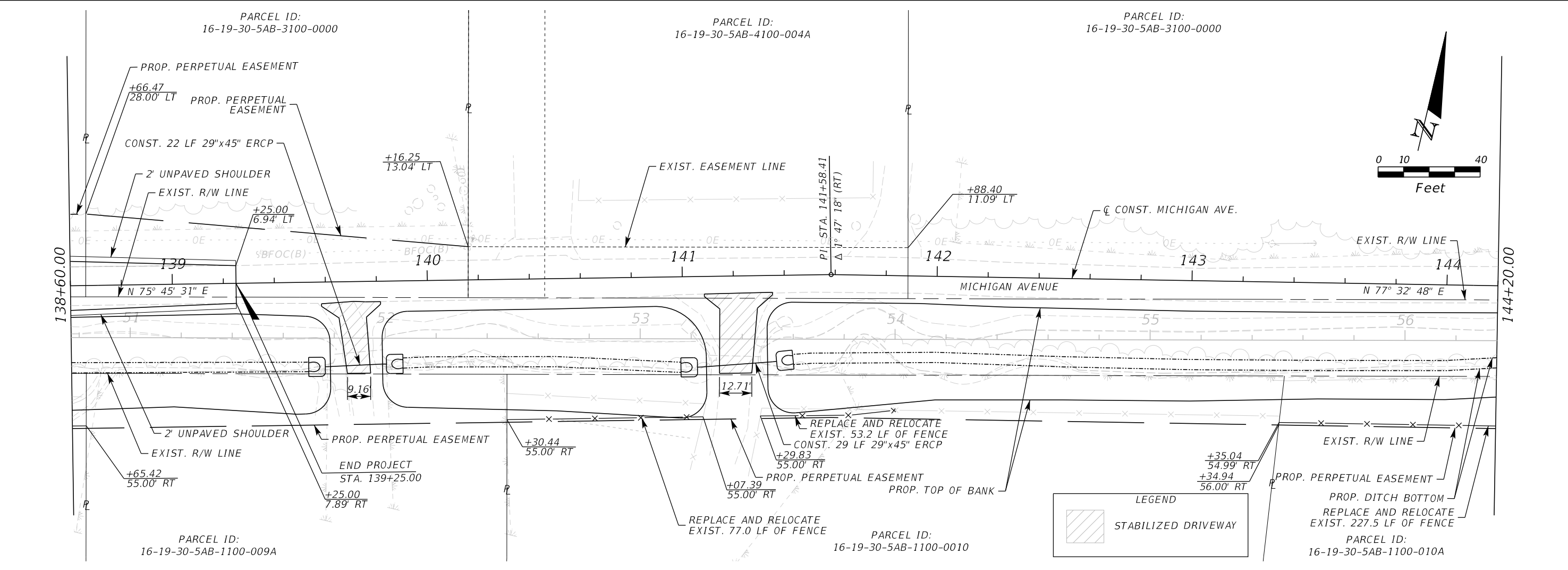
REVISIONS						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		PLAN/PROFILE SHEET MICHIGAN AVE.	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		14
							MICHIGAN AVE.	02407100		





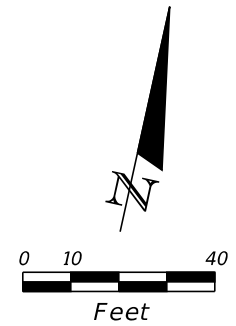
REVISIONS						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540		SEMINOLE COUNTY ENGINEERING DIVISION ROAD NO. MICHIGAN AVE. COUNTY CIP NO. 02407100		PLAN/PROFILE SHEET MICHIGAN AVE.		SHEET NO. 17
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION							

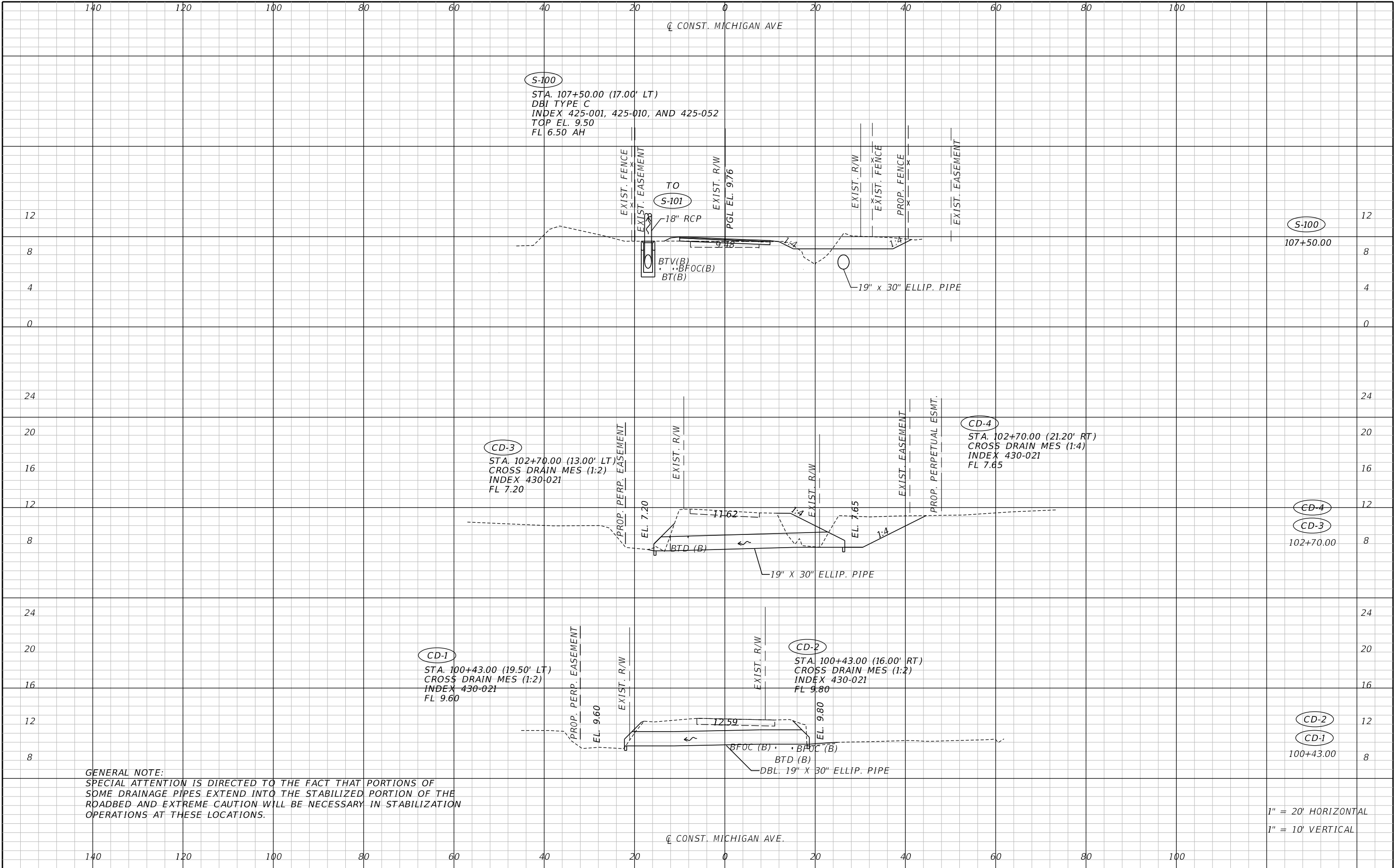
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



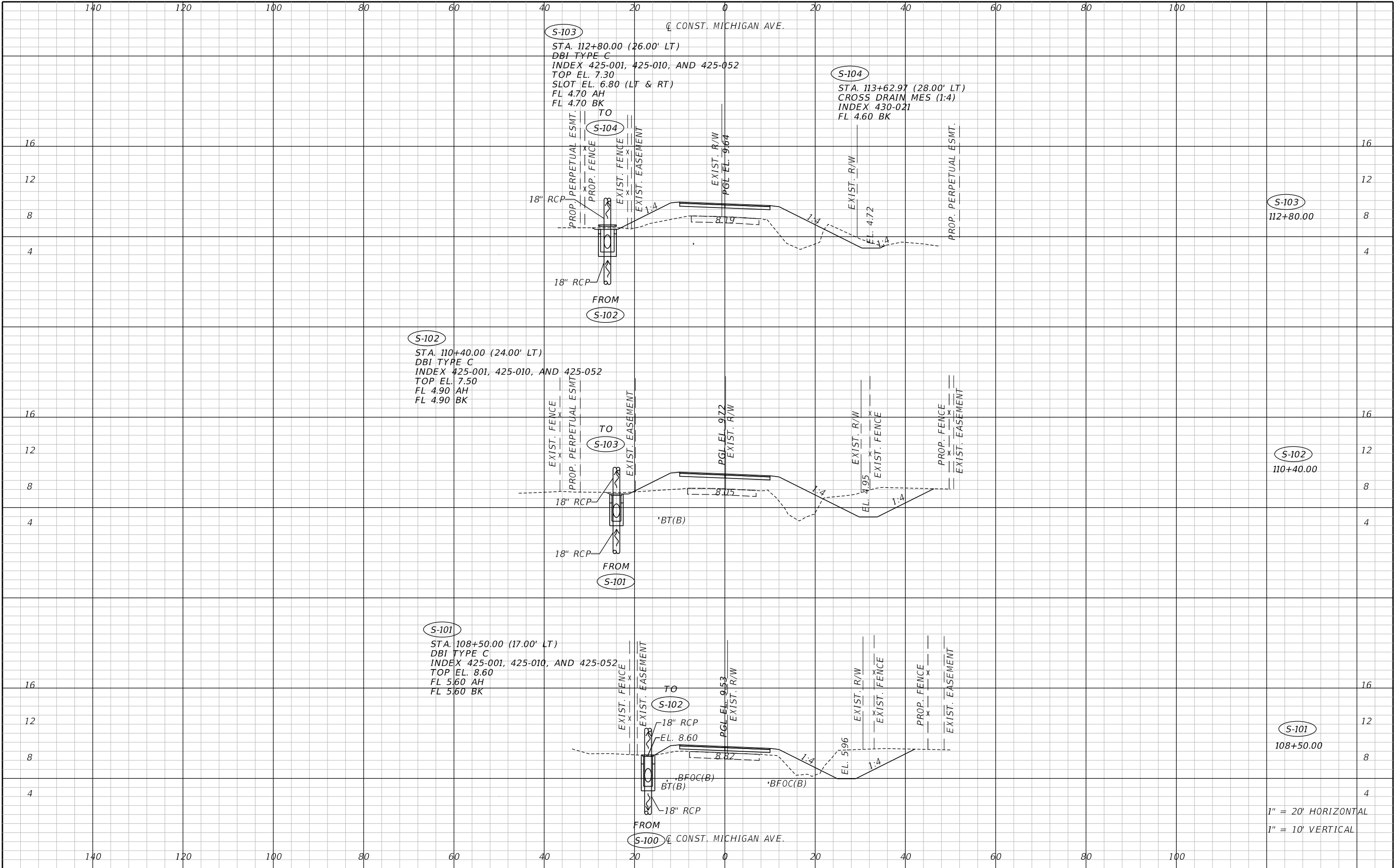
REVISIONS						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540	3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		PLAN/PROFILE SHEET MICHIGAN AVE.		SHEET NO. 18
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY CIP NO.			
								MICHIGAN AVE.	02407100			

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

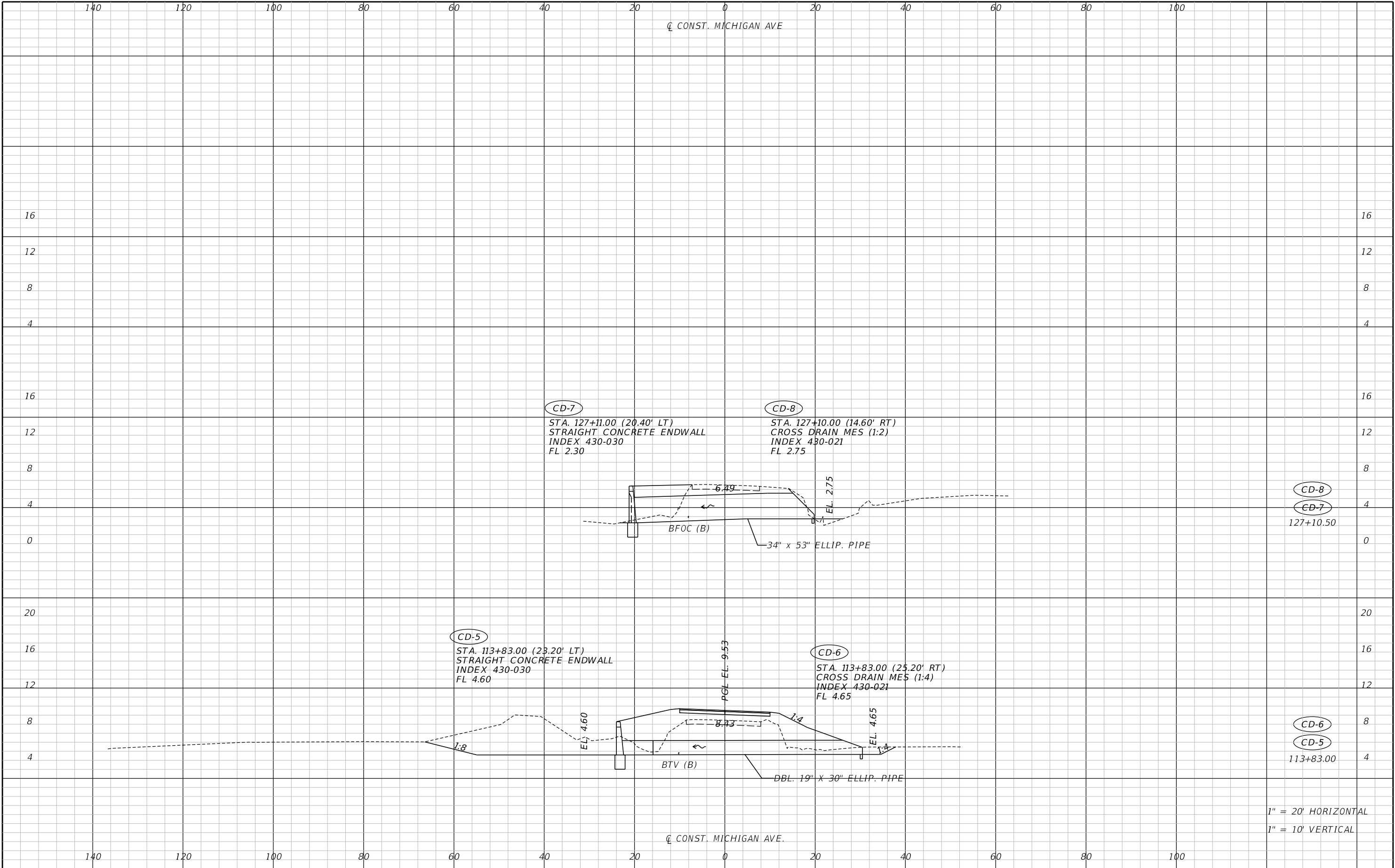




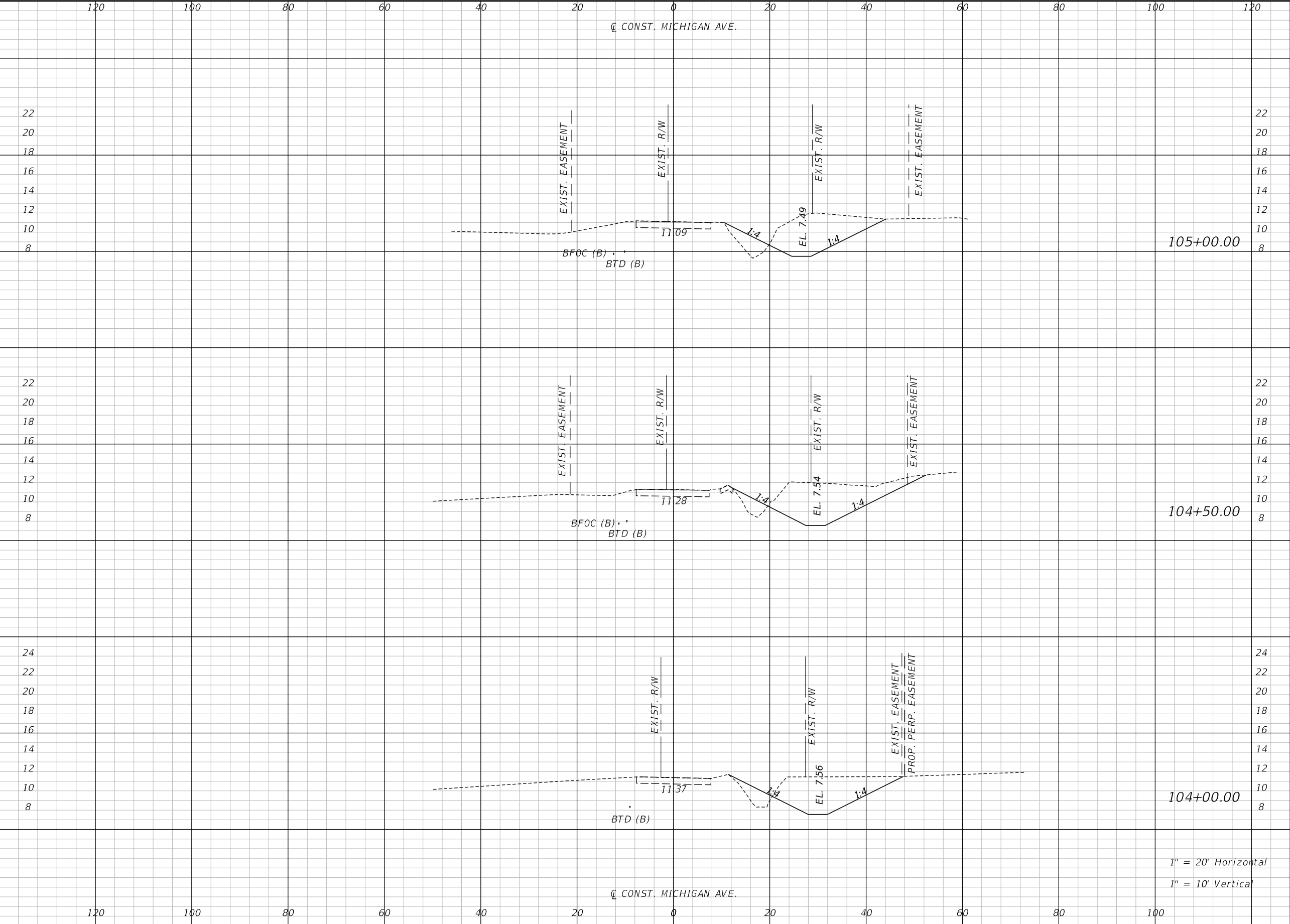
R E V I S I O N S						 ARDURRA Dayna Duffy Durham, PE 3452 Lake Lynda Drive, Suite 200 PE No. 94511 Orlando, Florida 32817 Certificate of Authorization No. 555540 p 407.971.8850	SEMINOLE COUNTY		<i>DRAINAGE STRUCTURES</i>	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ENGINEERING DIVISION			20
							ROAD NO.	COUNTY CIP NO.		
							MICHIGAN AVE.	02407100		



REVISIONS						 Dayna Duffy Durham, PE 3452 Lake Lynda Drive, Suite 200 PE No. 94511 Orlando, Florida 32817 Certificate of Authorization No. 555540 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		DRAINAGE STRUCTURES		SHEET NO. 21
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.			
							MICHIGAN AVE.	02407100			



REVISIONS						ARDURRA Dayna Duffy Durham, PE 3452 Lake Lynda Drive, Suite 200 PE No. 94511 Orlando, Florida 32817 Certificate of Authorization No. 555540 p 407.971.8850	SEMINOLE COUNTY		DRAINAGE STRUCTURES	SHEET NO. 22
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		
							MICHIGAN AVE.	02407100		



Regular		Exc.	Embankment	
A	V		A	V
62.5	131	11.7	18	
78.9	134	7.7	16	
65.4	120	9.3	19	

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



ARDURRA

Jessica D. Ballock, PE 3452 Lake Lynda Drive, Suite 200
PE No. 73909 Orlando, Florida 32817
Certificate of Authorization No. 555540 p 407.971.8850



SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.

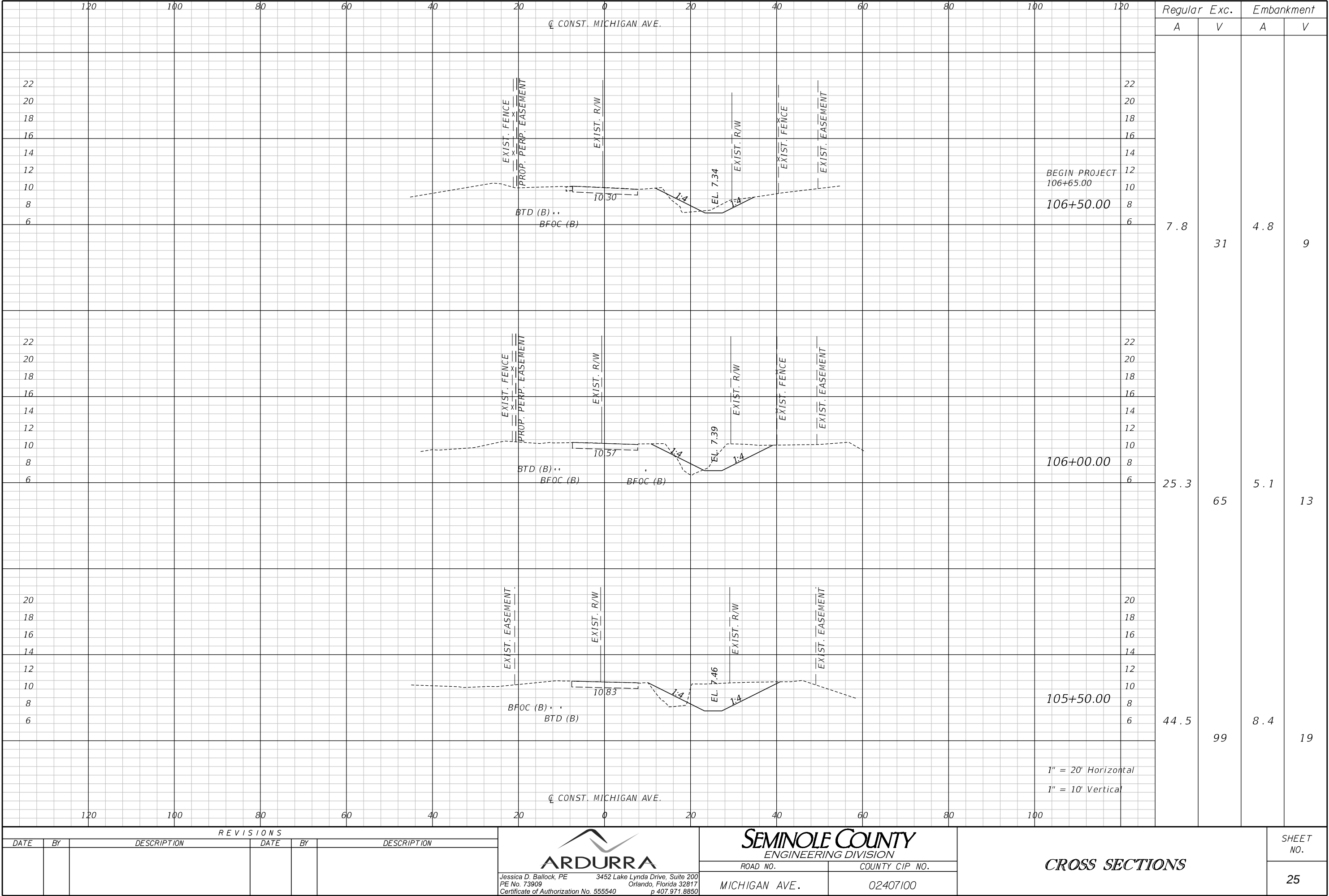
MICHIGAN AVE. 02407100

CROSS SECTIONS

SHEET NO.

24

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



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



ARDURRA

Jessica D. Ballock, PE 3452 Lake Lynda Drive, Suite 200
PE No. 73909 Orlando, Florida 32817
Certificate of Authorization No. 555540 p 407.971.8850



SEMINOLE COUNTY
ENGINEERING DIVISION

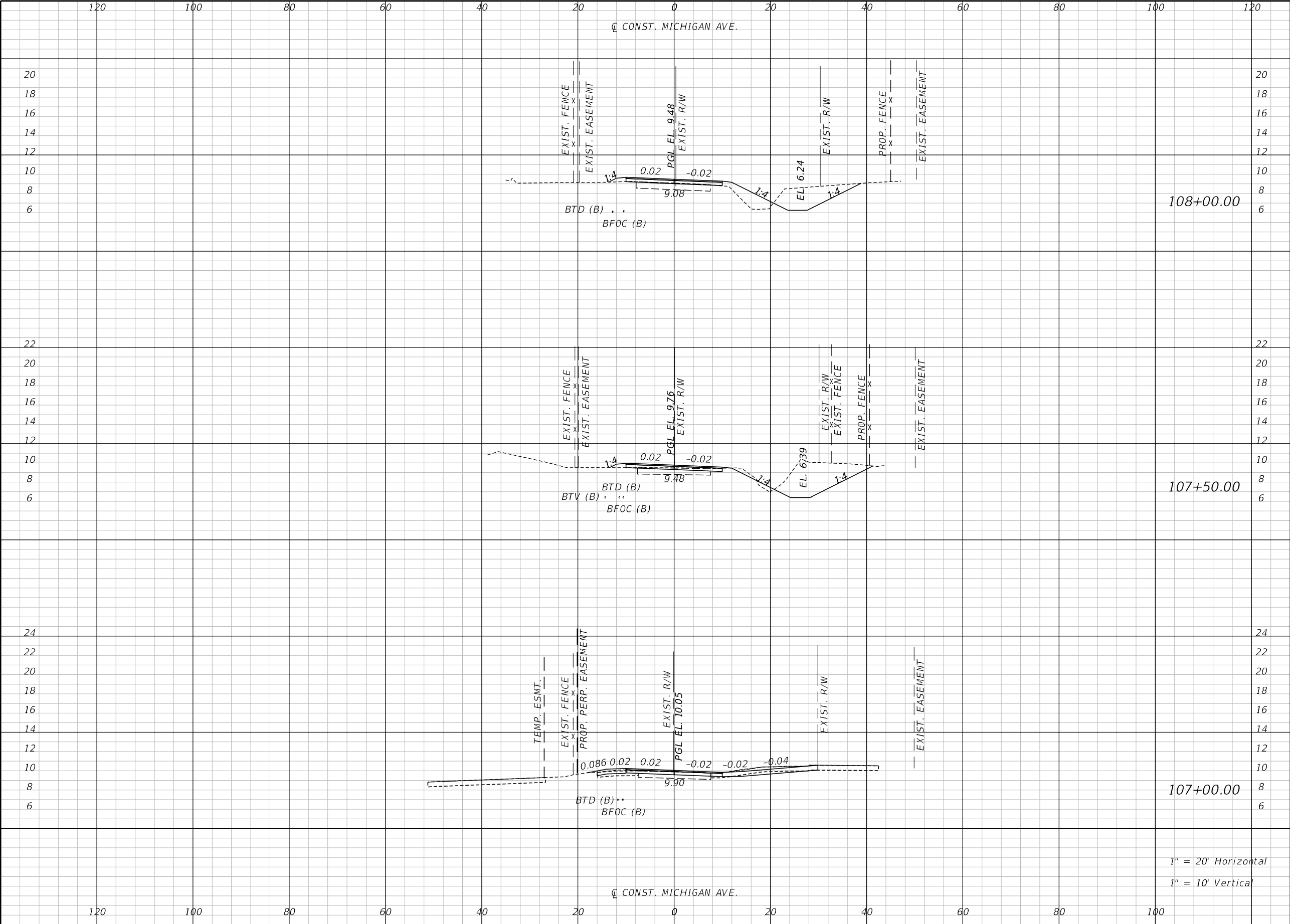
ROAD NO.	COUNTY CIP NO.
MICHIGAN AVE.	02407100

CROSS SECTIONS

SHEET NO.

25

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



Regular		Exc.	Embankment	
A	V		A	V
27.5		70	12.6	14
47.6		63	2.5	3
20.8		26	0.2	5

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850



ROAD NO. COUNTY CIP NO.

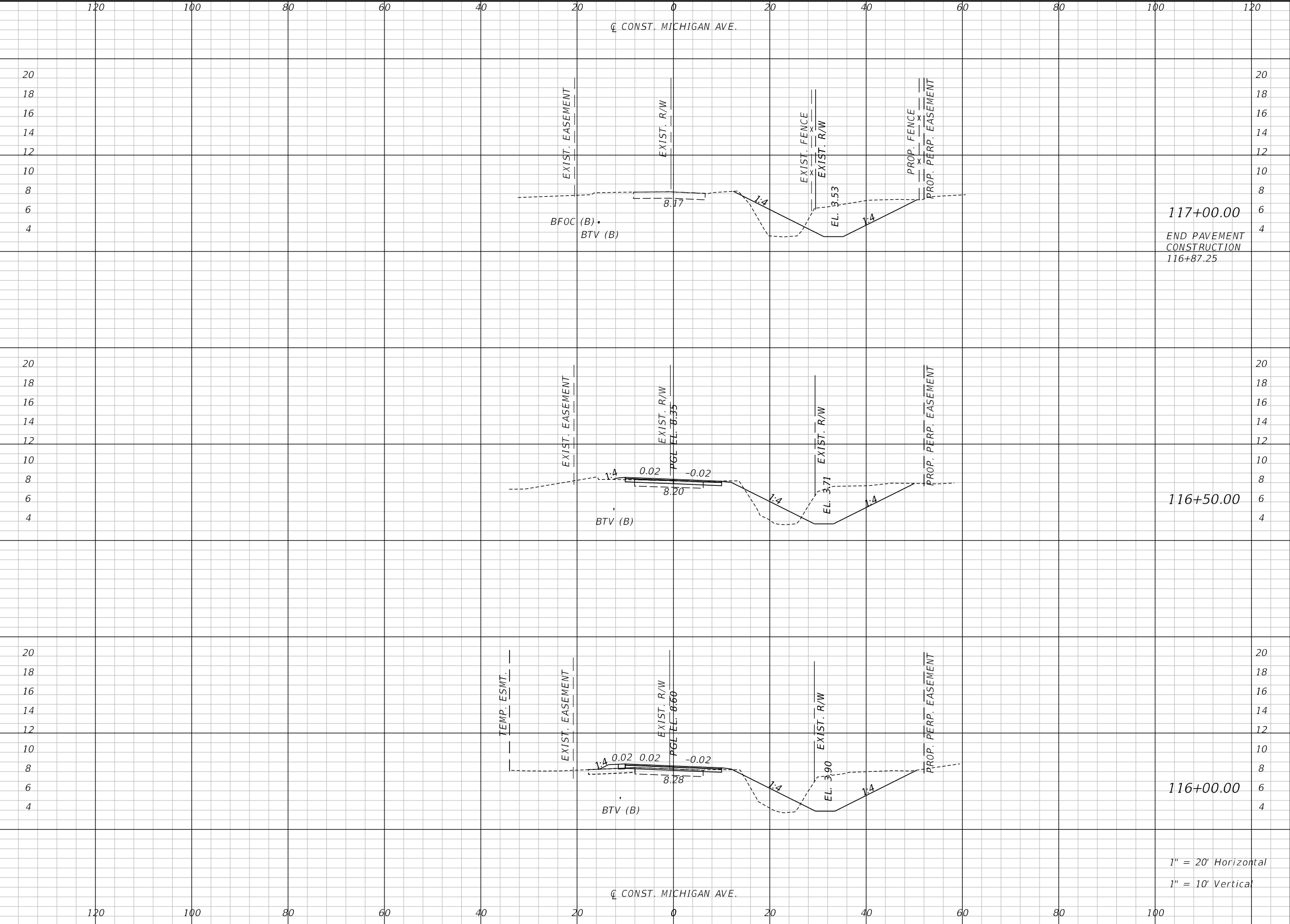
MICHIGAN AVE. 02407100

CROSS SECTIONS

SHEET NO. 26

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





Regular		Exc.	Embankment	
A		V	A	V
49.2		100	20.4	34
58.3		106	16.6	33
56.6		96	19.4	40

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850



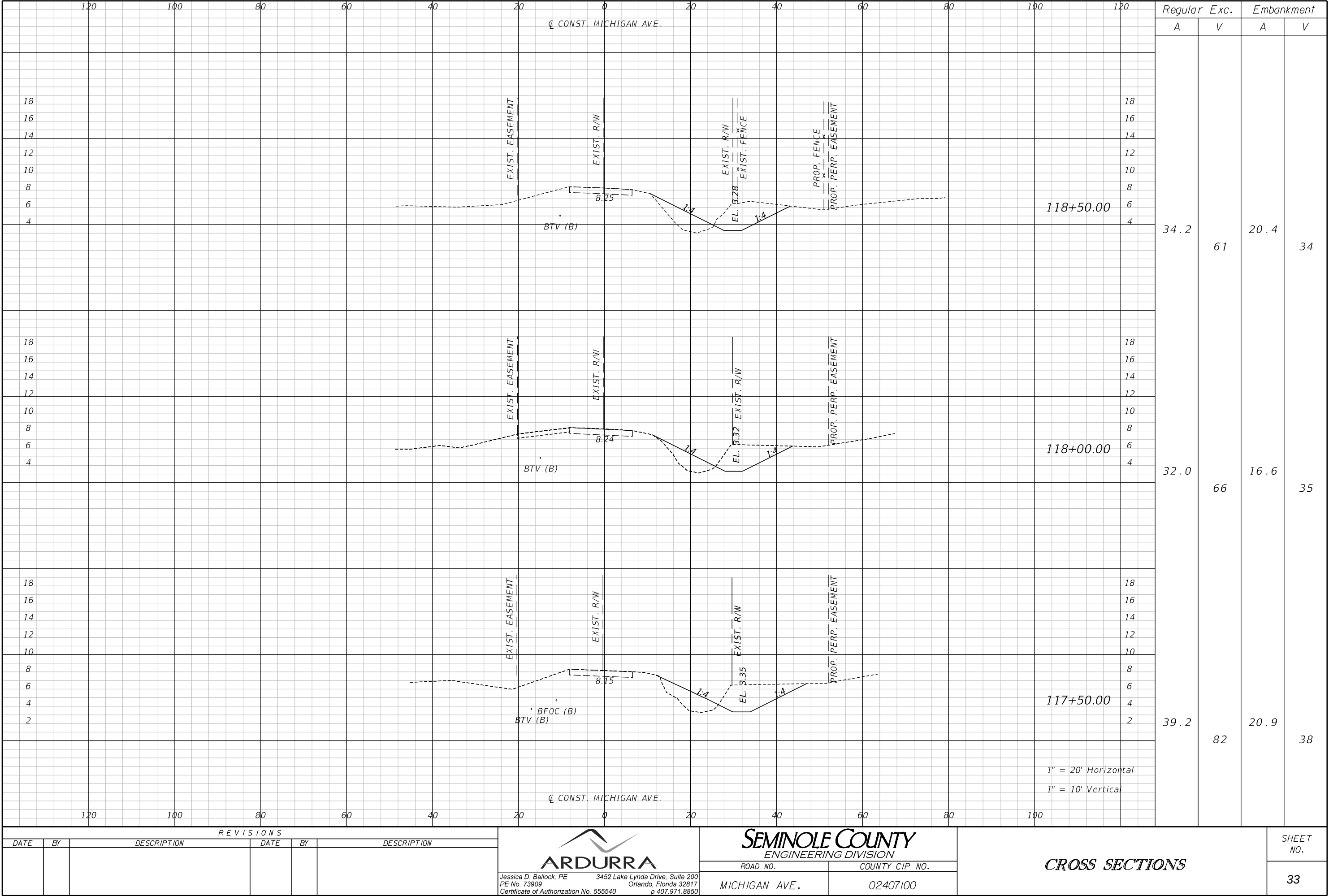
ROAD NO. COUNTY CIP NO.

MICHIGAN AVE. 02407100

CROSS SECTIONS

32

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



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850



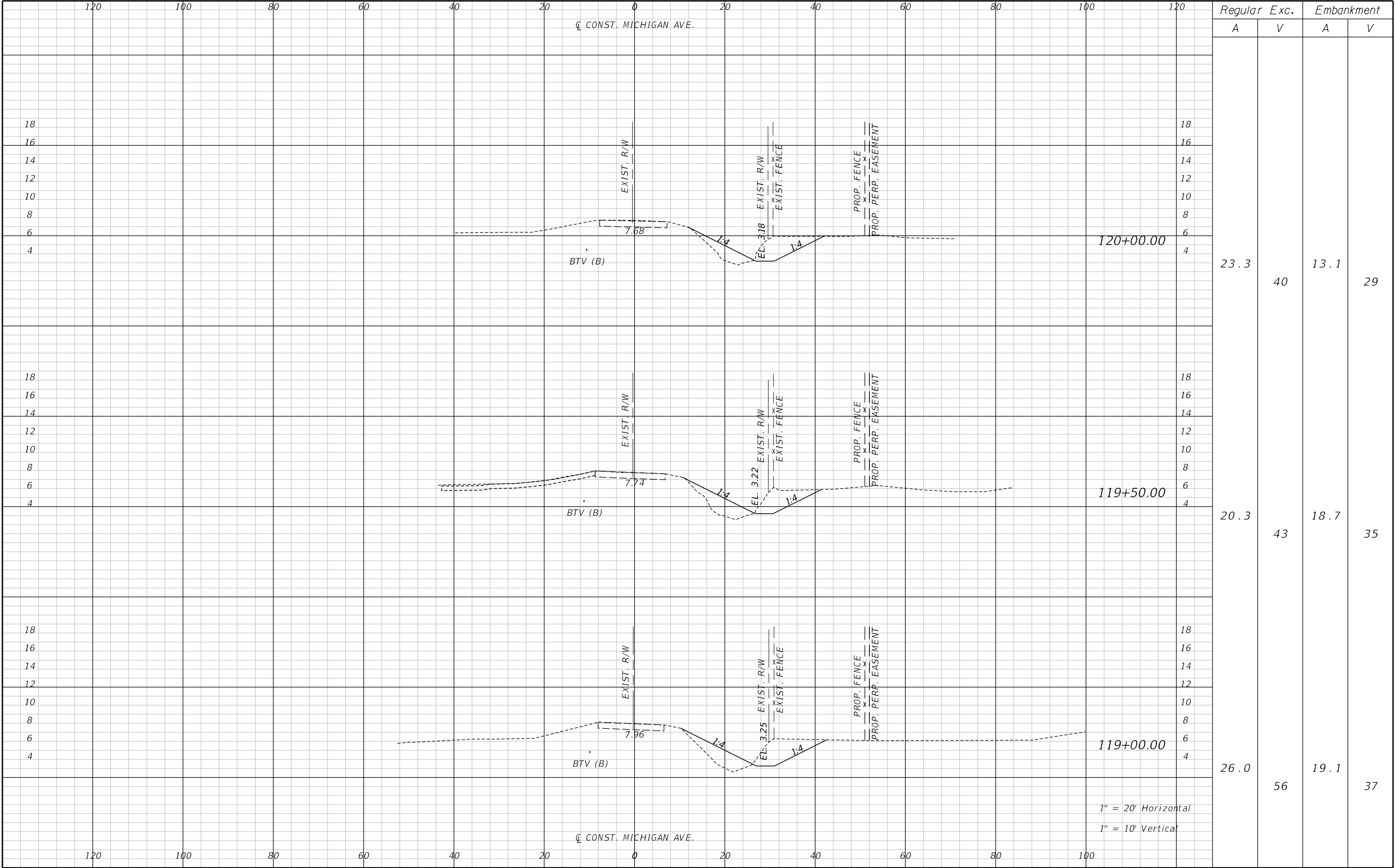
ROAD NO. COUNTY CIP NO.

MICHIGAN AVE. 02407100

CROSS SECTIONS

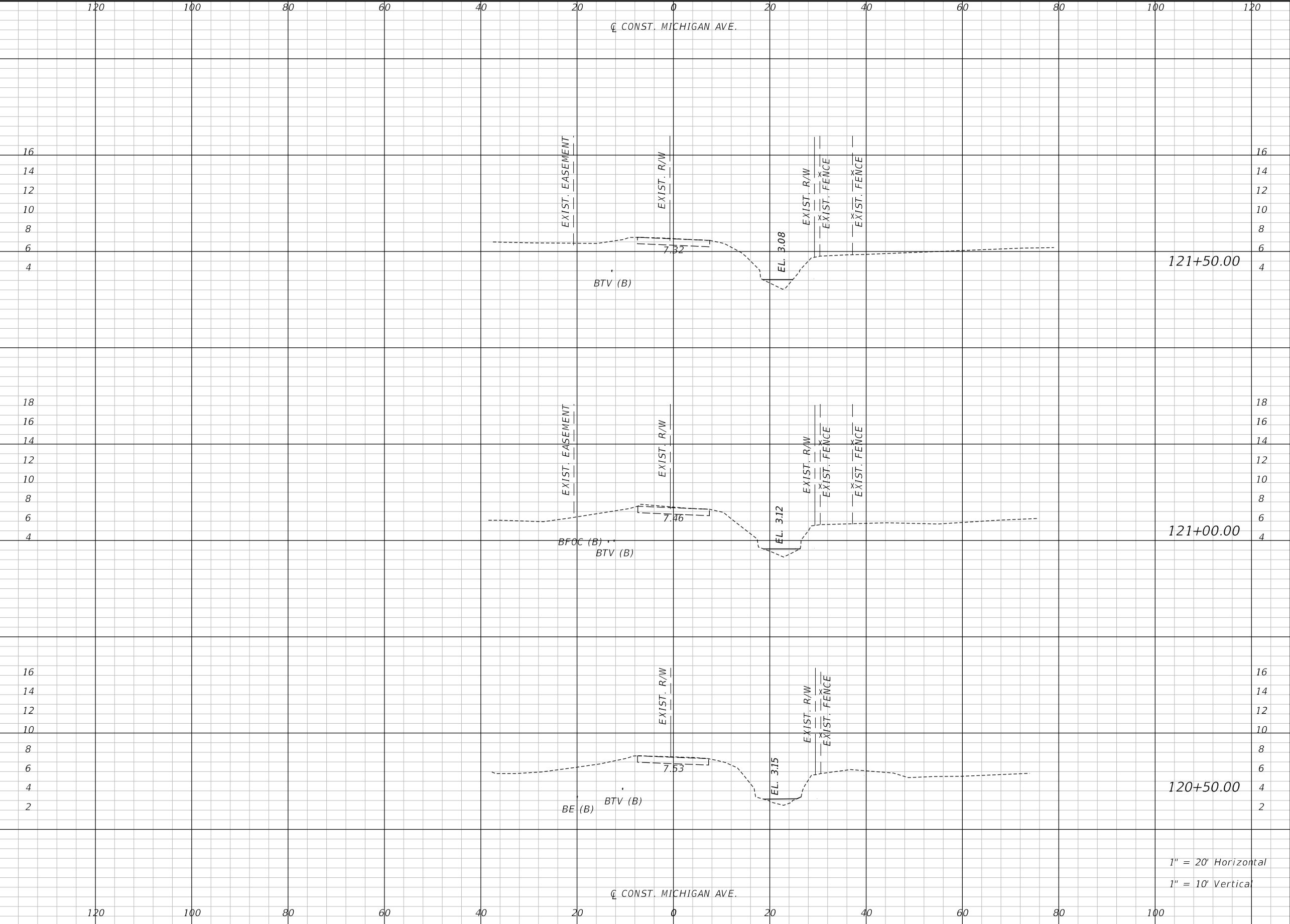
SHEET NO. 33

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



REVISIONS						 ARDURRA Jessica D. Ballock, PE 3452 Lake Lynda Drive, Suite 200 PE No. 73909 Orlando, Florida 32817 Certificate of Authorization No. 555540 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		CROSS SECTIONS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		34

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



Regular		Exc.	Embankment	
A		V	A	V
0.0	0	3.3	6	
0.0	0	3.1	5	
0.0	22	2.5	14	

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850



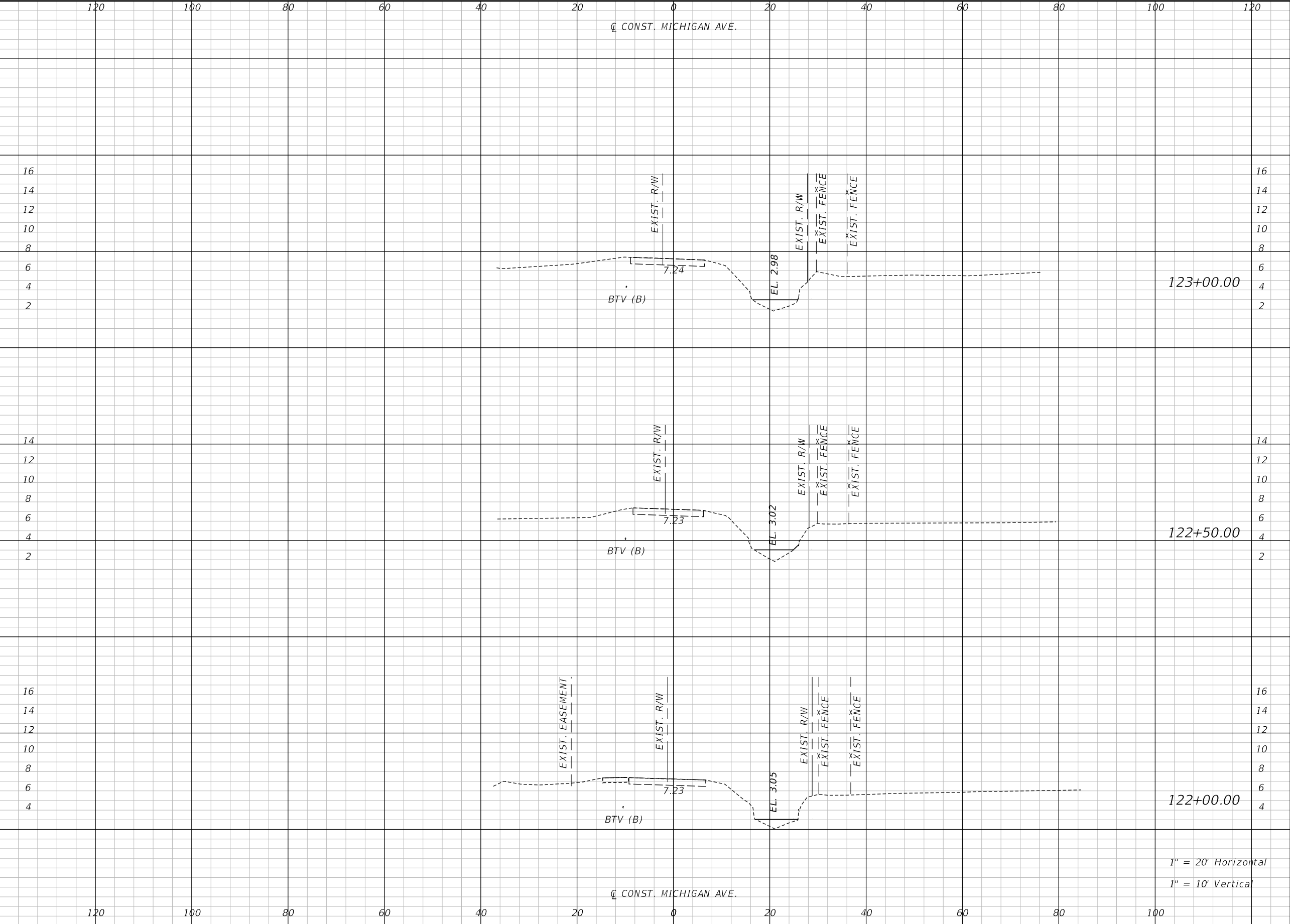
ROAD NO. COUNTY CIP NO.

MICHIGAN AVE. 02407100

CROSS SECTIONS

SHEET NO. 35

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



Regular		Exc.	Embankment	
A	V		A	V
0.0	0	6.5	11	
0.0	0	5.1	9	
0.0	0	4.4	7	

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850



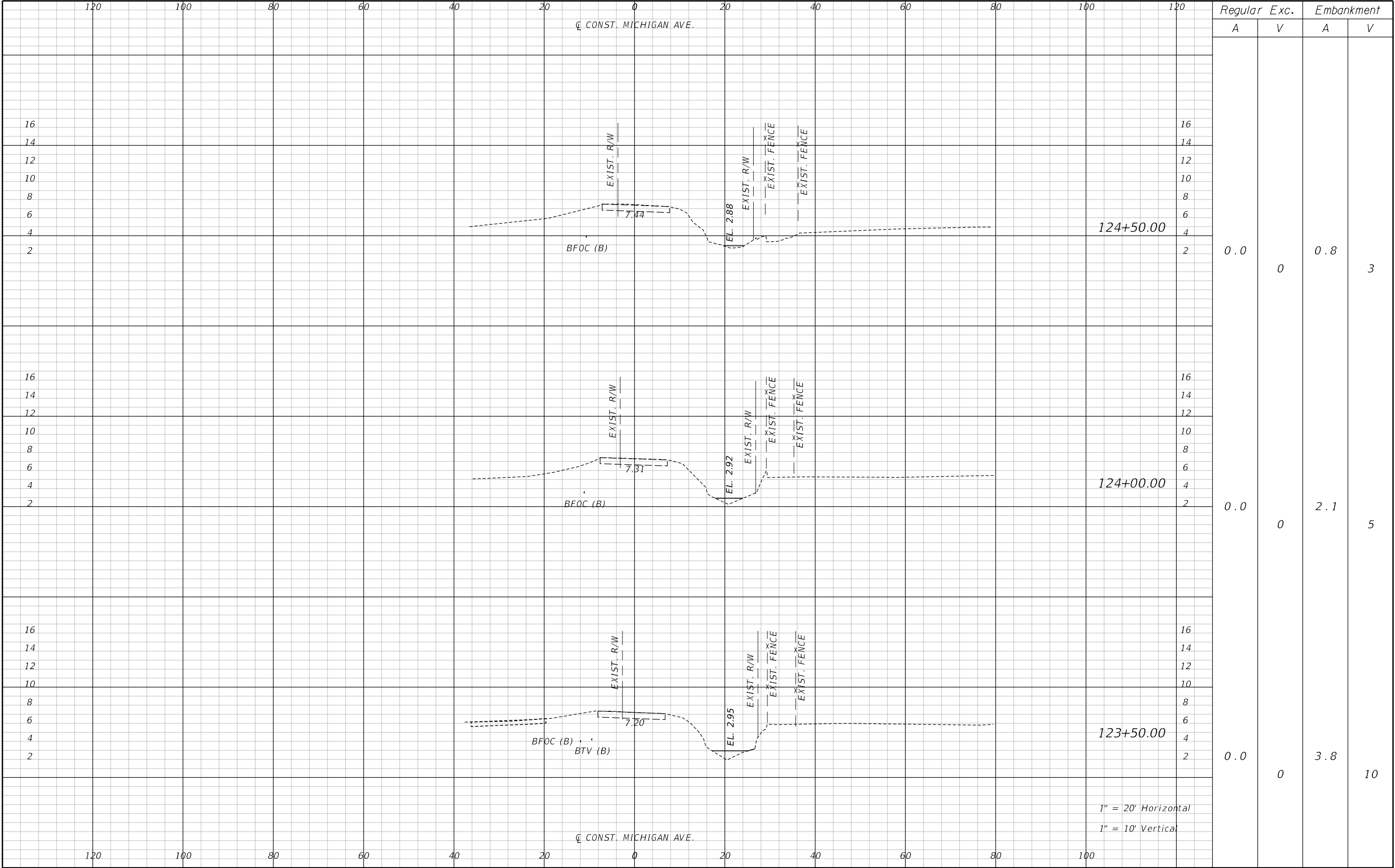
ROAD NO. COUNTY CIP NO.

MICHIGAN AVE. 02407100

CROSS SECTIONS

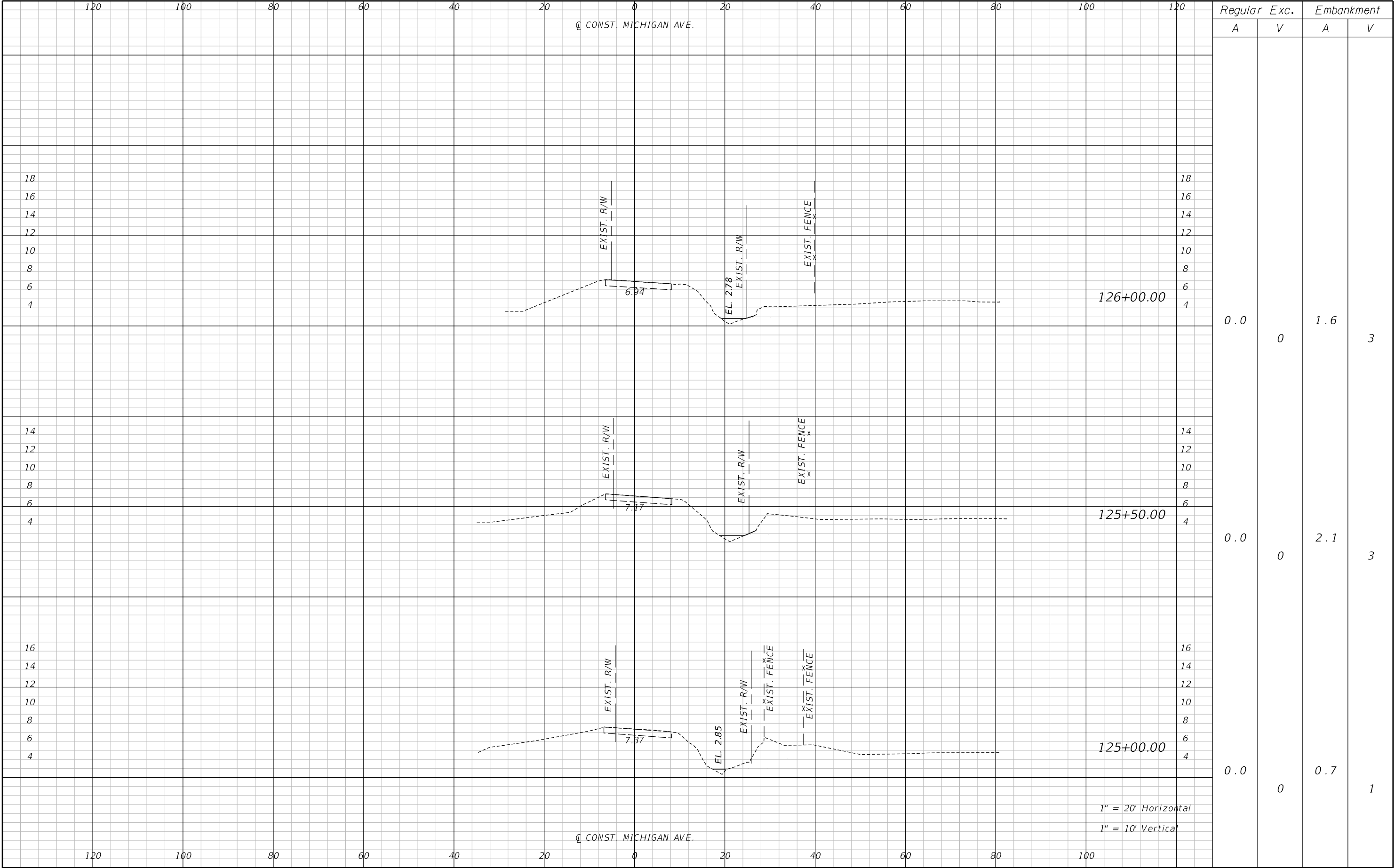
SHEET NO. 36

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

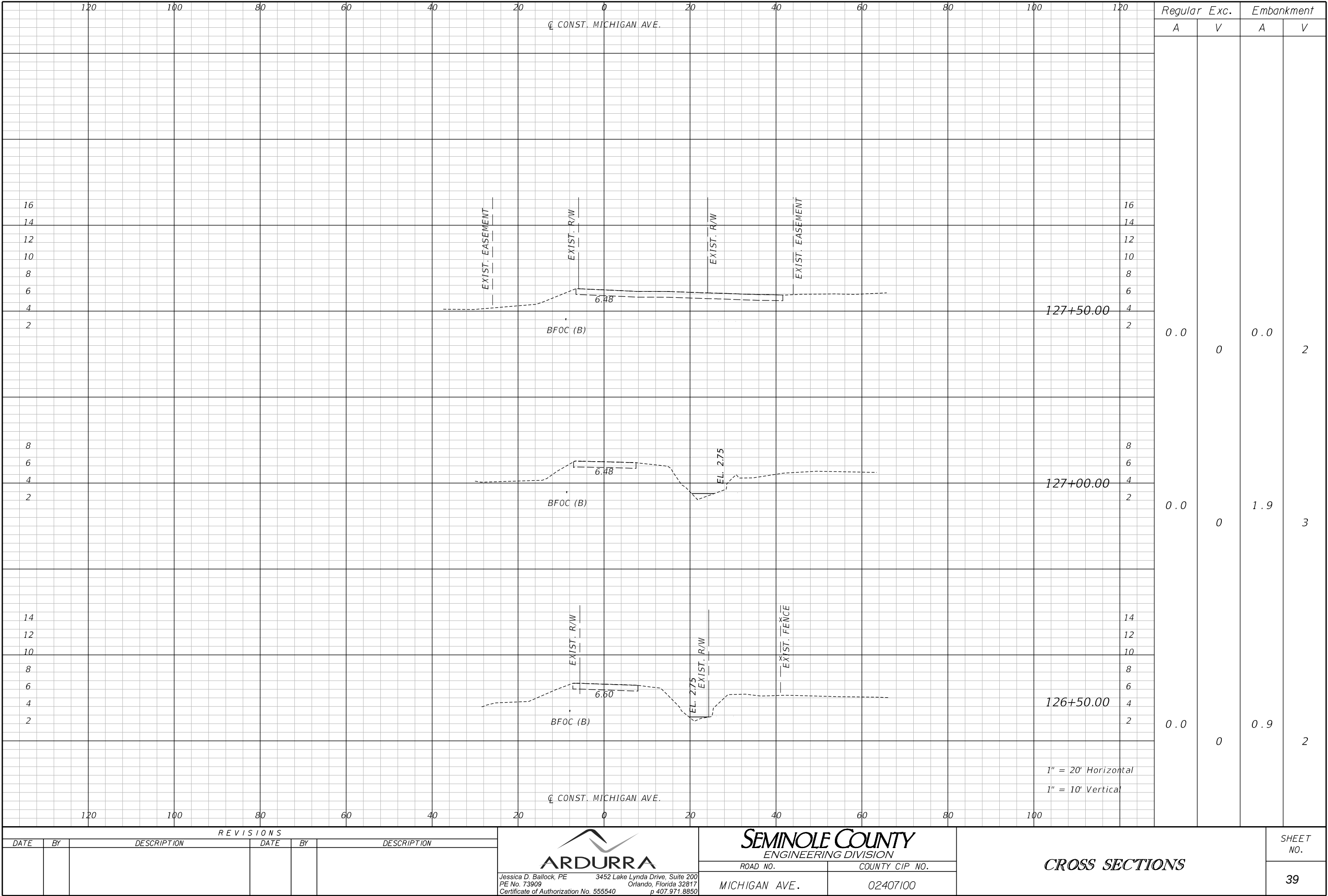


REVISIONS						ARDURRA Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850
-----------	--	--	--	--	--	---

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



R E V I S I O N S						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		CROSS SECTIONS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		38



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850



ROAD NO. COUNTY CIP NO.

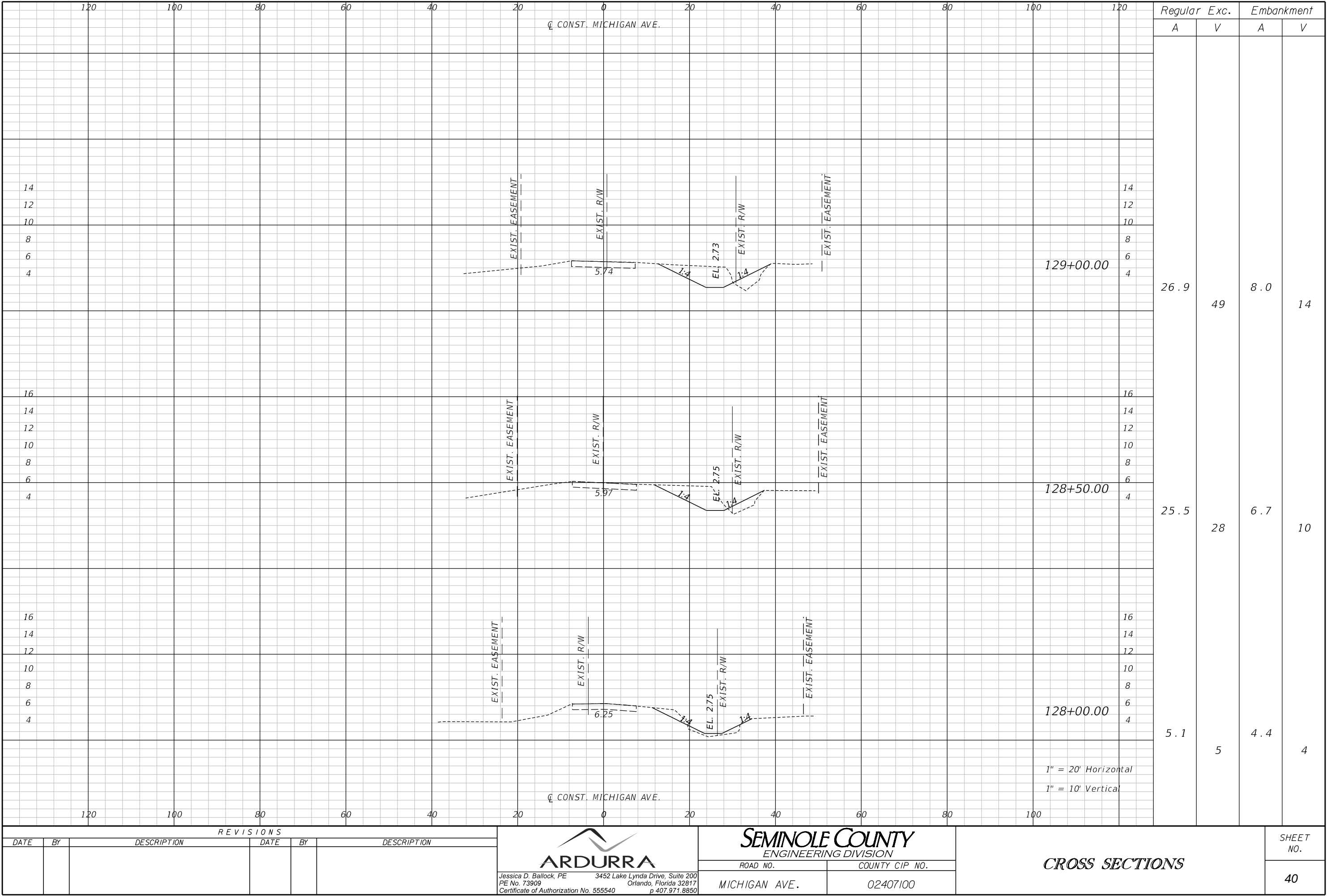
MICHIGAN AVE. 02407100

CROSS SECTIONS

SHEET NO.

39

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



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850



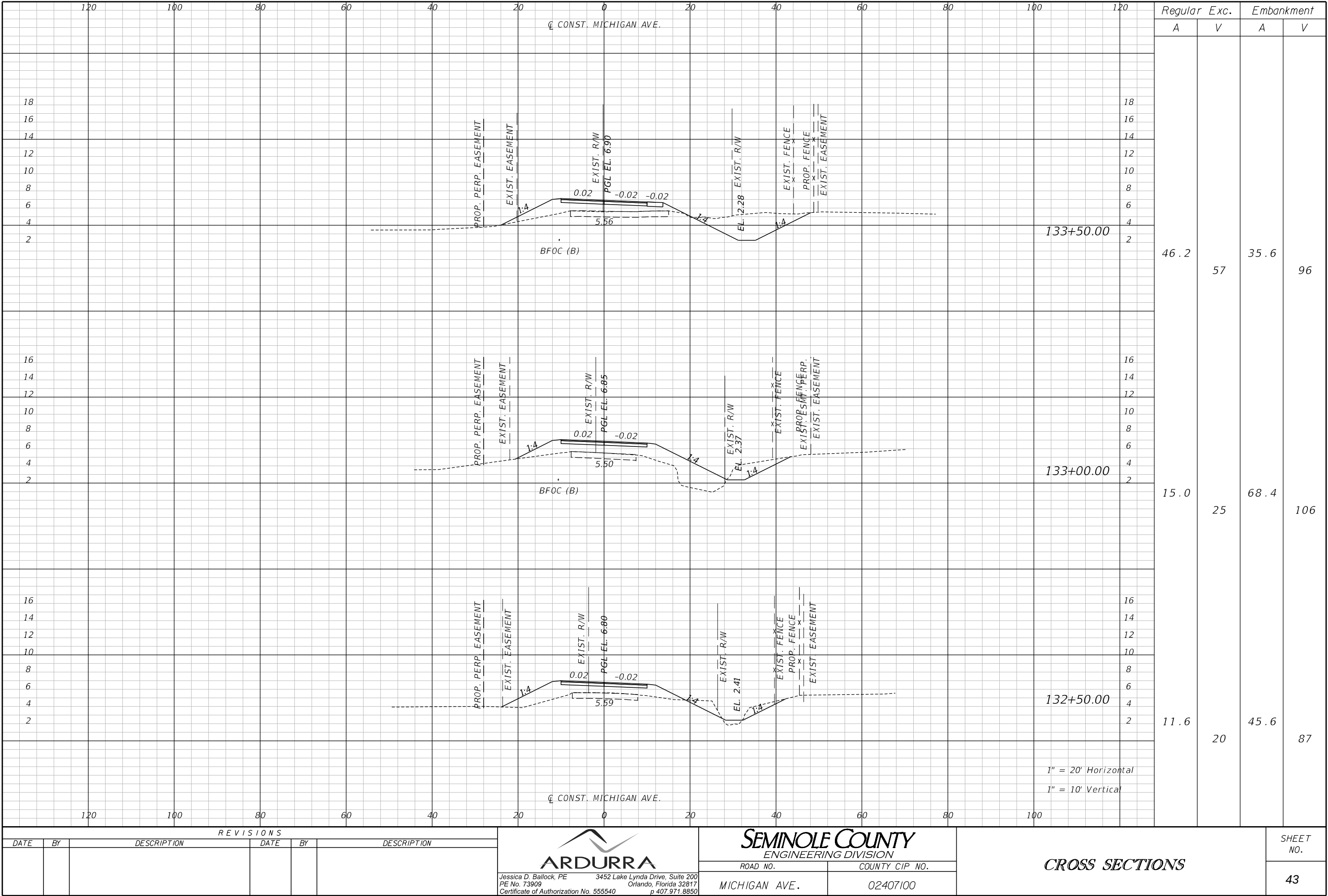
ROAD NO. COUNTY CIP NO.

MICHIGAN AVE. 02407100

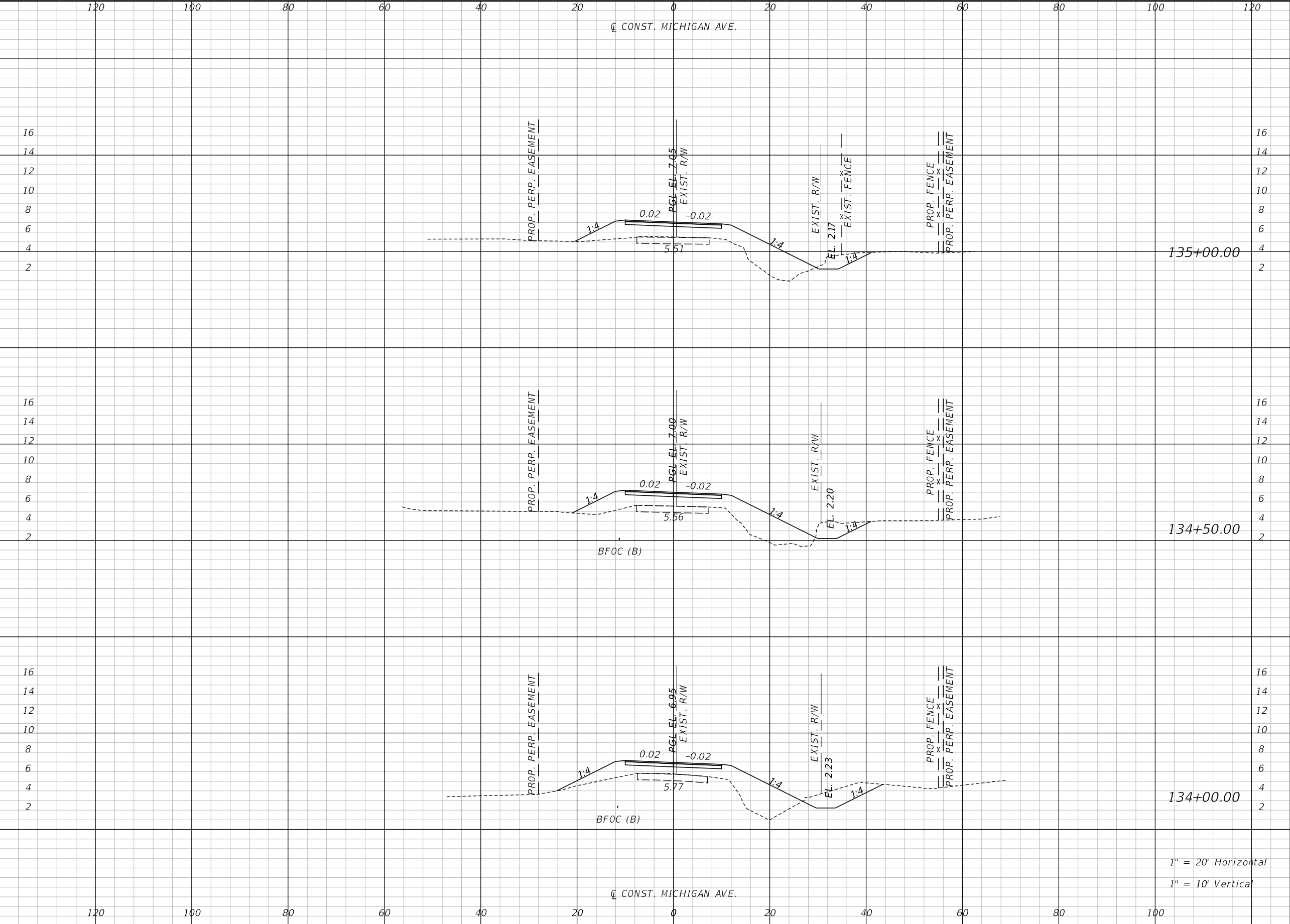
CROSS SECTIONS

SHEET NO. 40

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



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



Regular		Exc.	Embankment	
A	V		A	V
9.5	20	77.4	143	
12.5	30	77.5	138	
20.2	61	71.4	99	

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850



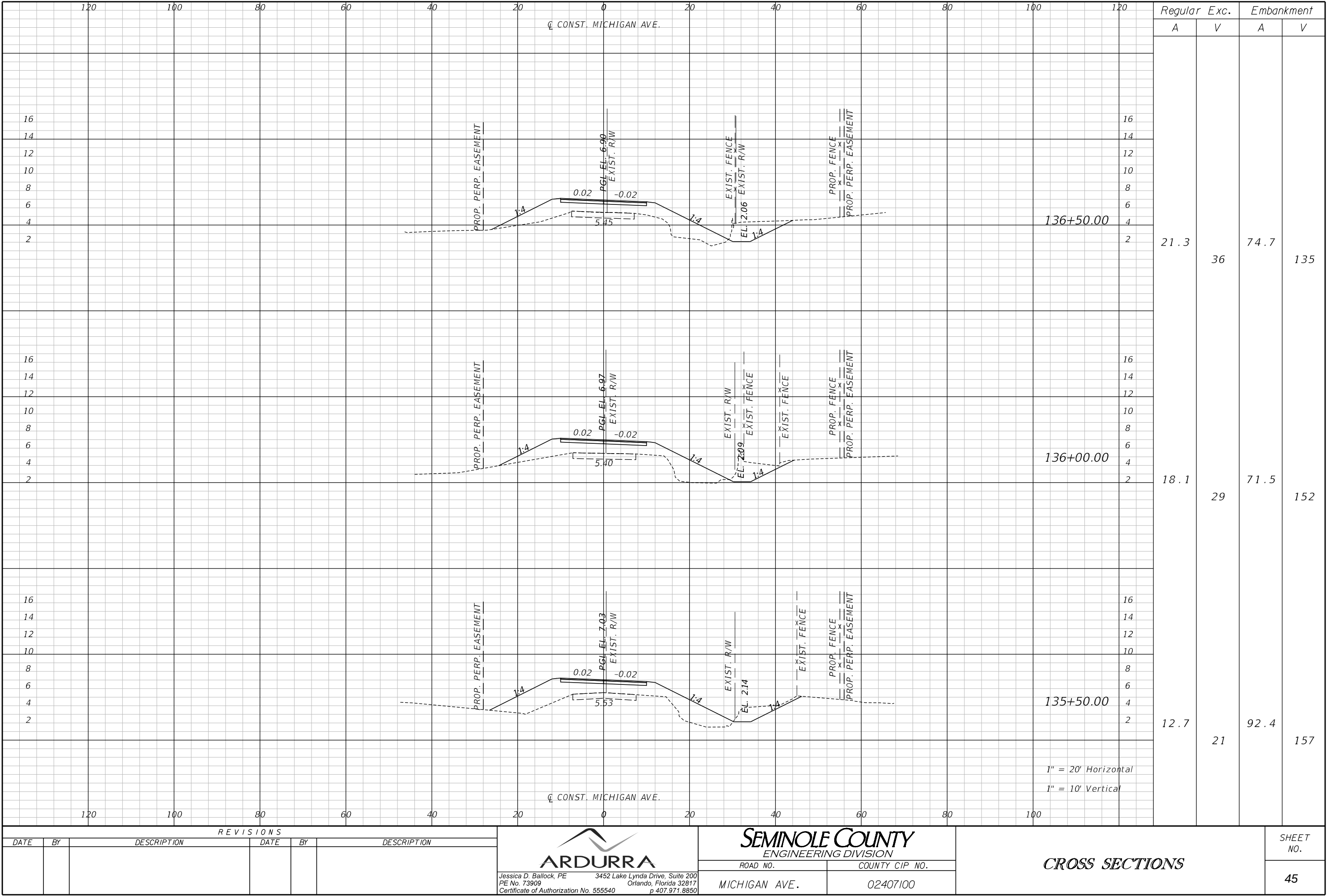
ROAD NO. COUNTY CIP NO.

MICHIGAN AVE. 02407100

CROSS SECTIONS

SHEET NO. 44

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



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850



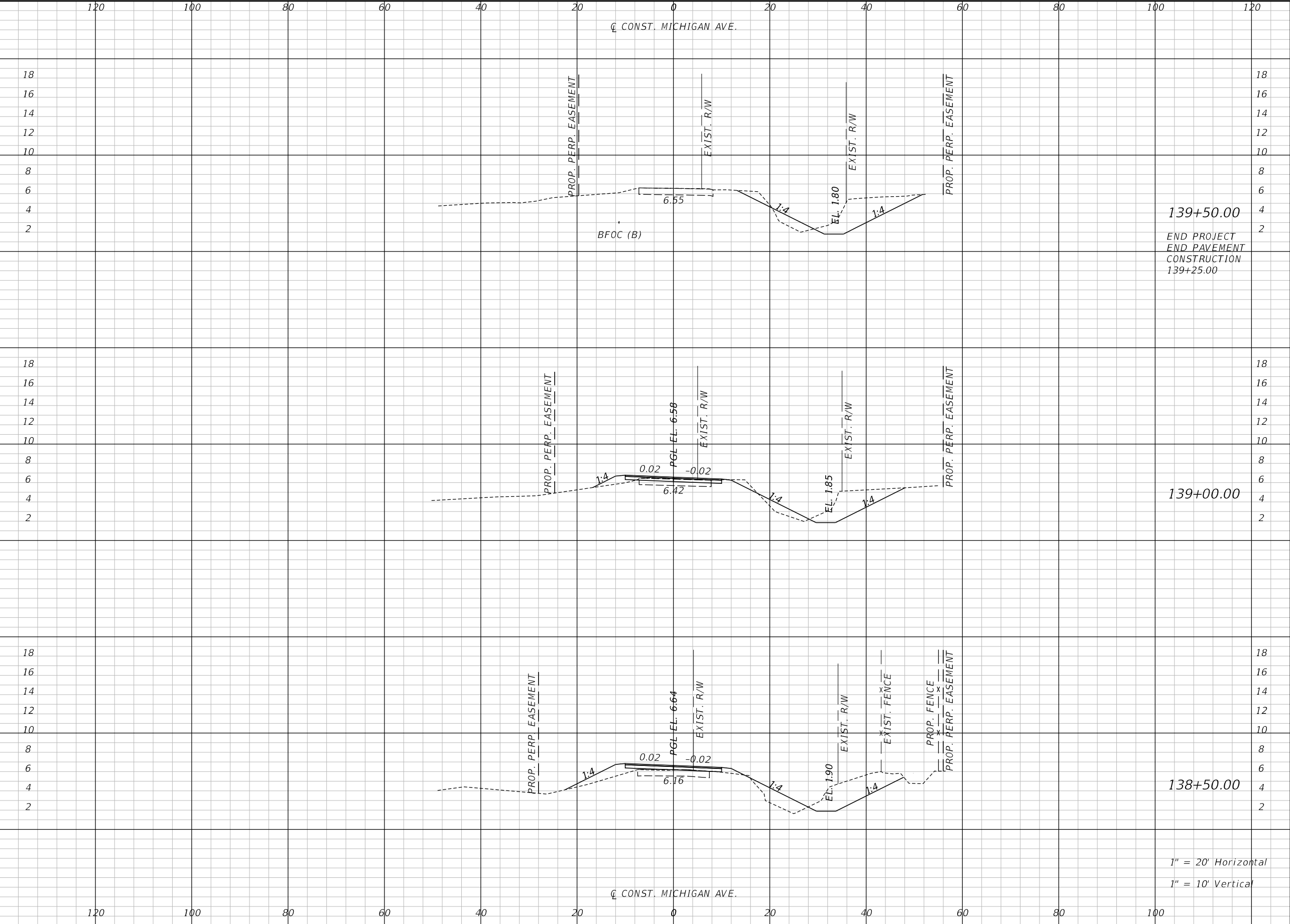
ROAD NO. MICHIGAN AVE.

COUNTY CIP NO. 02407100

CROSS SECTIONS

SHEET NO. 45

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



Regular		Exc.	Embankment	
A	V	A	V	
38.9	69	6.8	16	
35.2	65	10.6	33	
34.9	56	25.0	55	

139+50.00

END PROJECT
END PAVEMENT
CONSTRUCTION
139+25.00

139+00.00

138+50.00

1" = 20' Horizontal
1" = 10' Vertical

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850



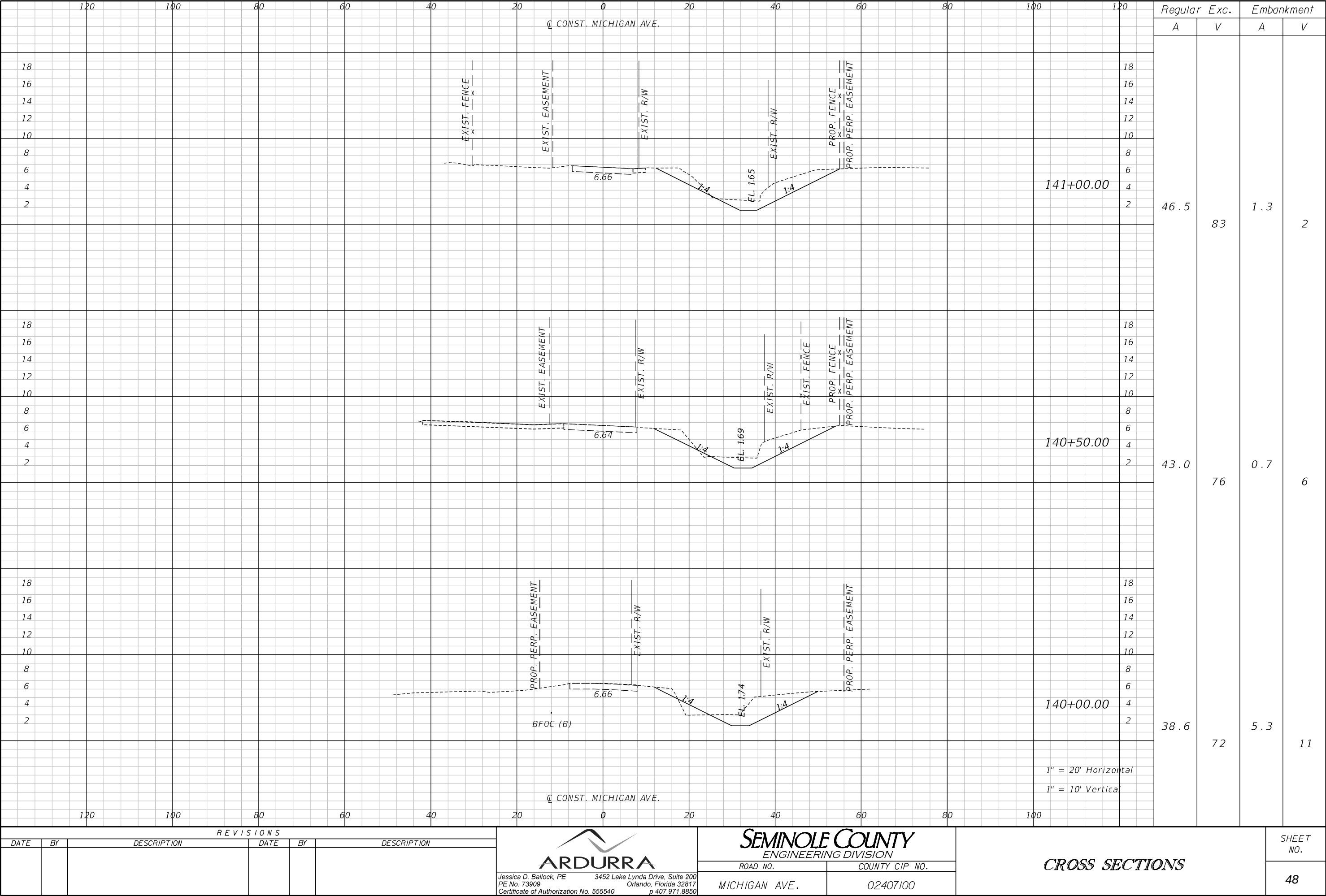
ROAD NO. MICHIGAN AVE.

COUNTY CIP NO. 02407100

CROSS SECTIONS

SHEET NO. 47

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



DATE

BY

DESCRIPTION

DATE

BY

DESCRIPTION

ARDURRA

Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850

SEMINOLE COUNTY

ENGINEERING DIVISION

ROAD NO. MICHIGAN AVE.

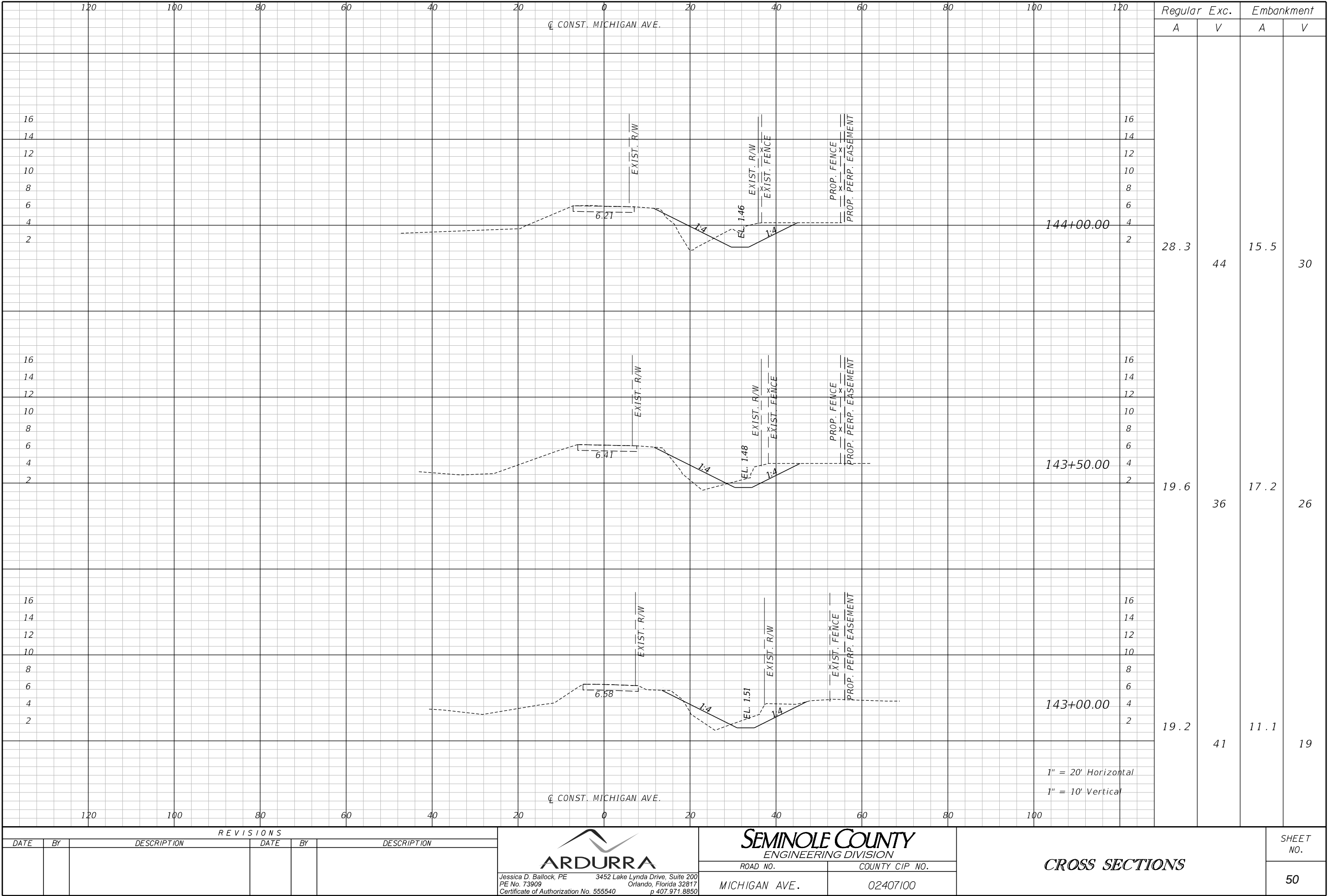
COUNTY CIP NO. 02407100

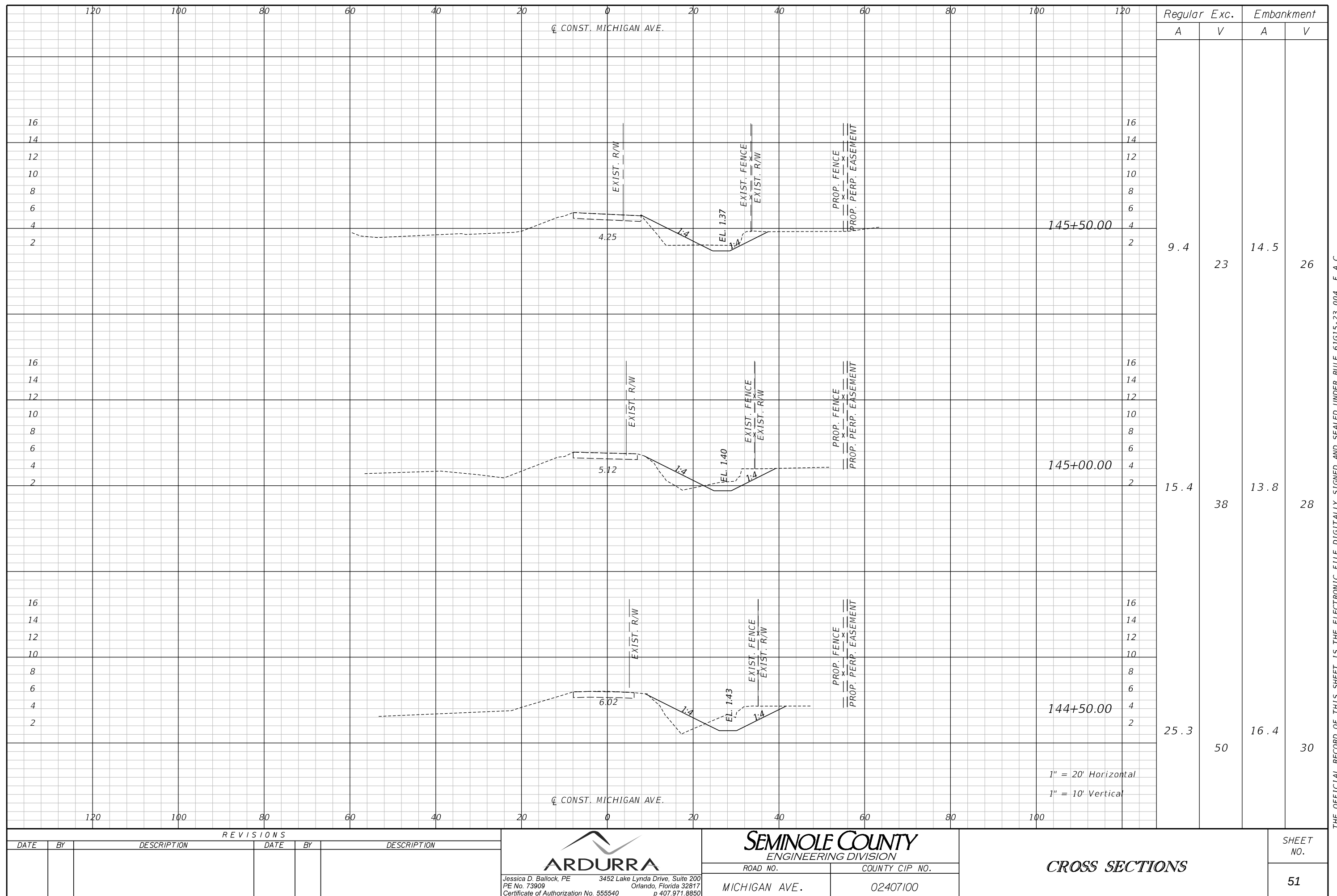
CROSS SECTIONS

SHEET NO.

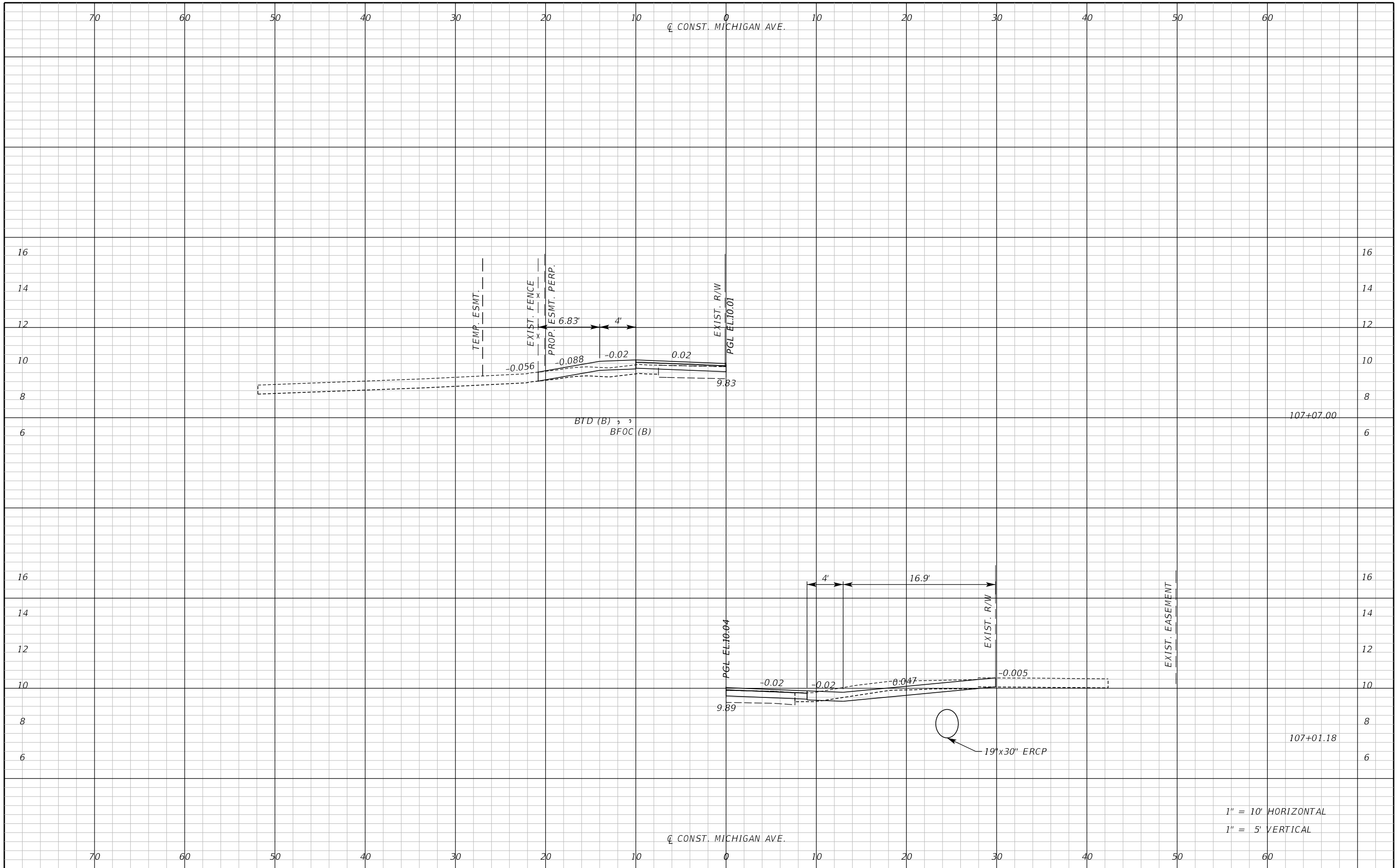
48

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

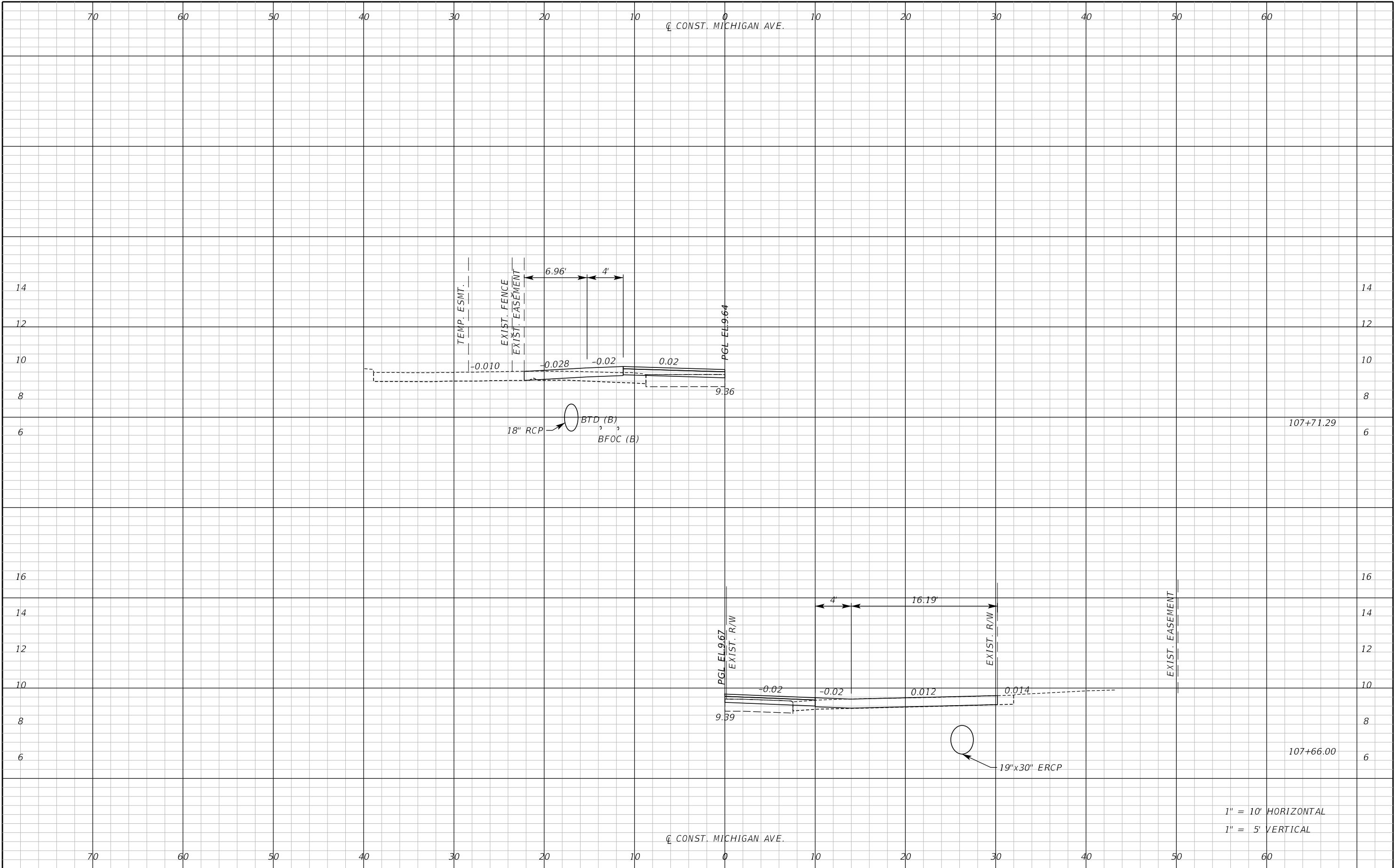








REVISIONS						ARDURRA Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		DRIVEWAY SECTIONS	SHEET NO. 53
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		
							MICHIGAN AVE.	02407100		



REVISIONS						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		DRIVEWAY SECTIONS	SHEET NO. 54
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		
							MICHIGAN AVE.	02407100		

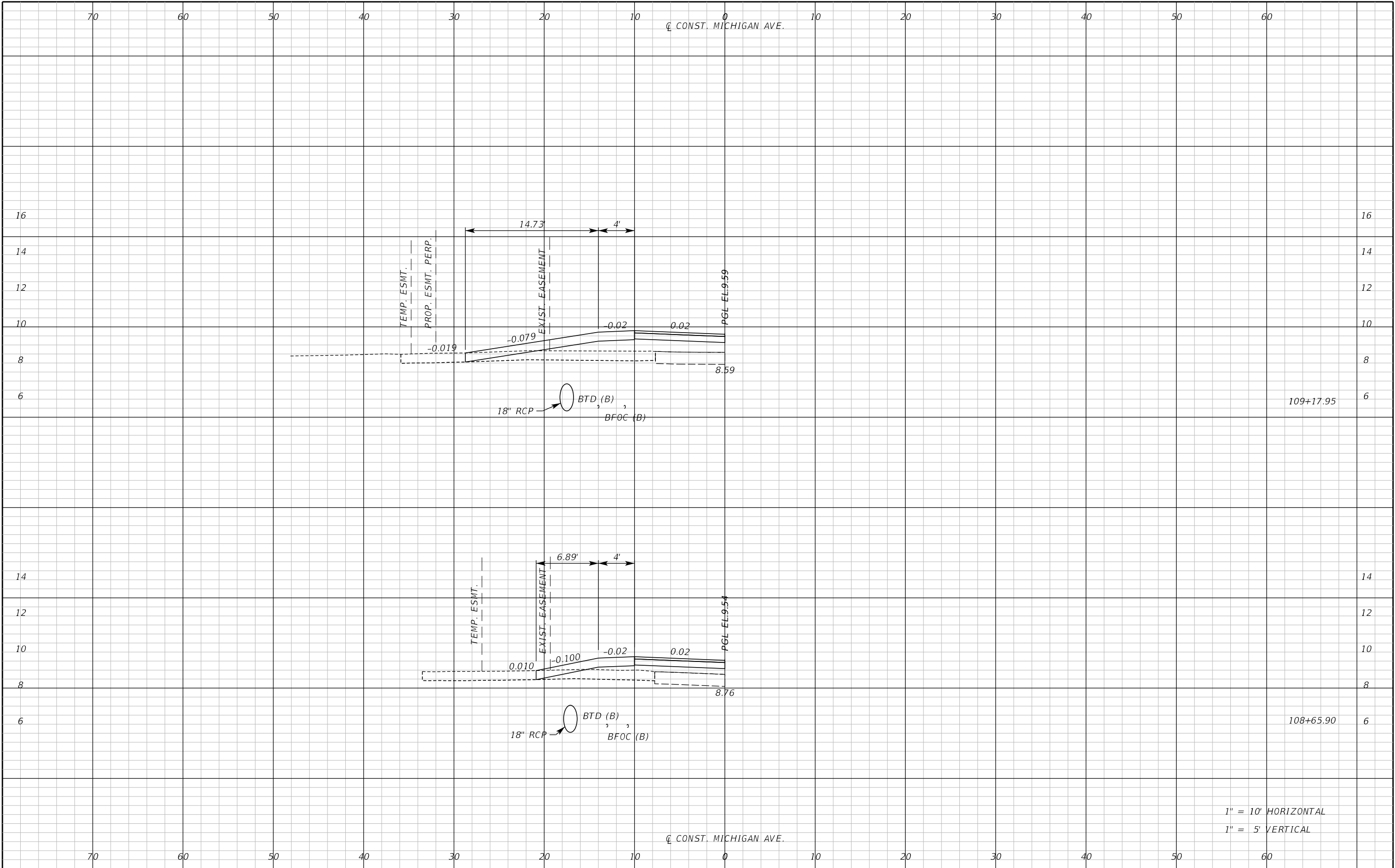
aalsaffar

3/7/2025

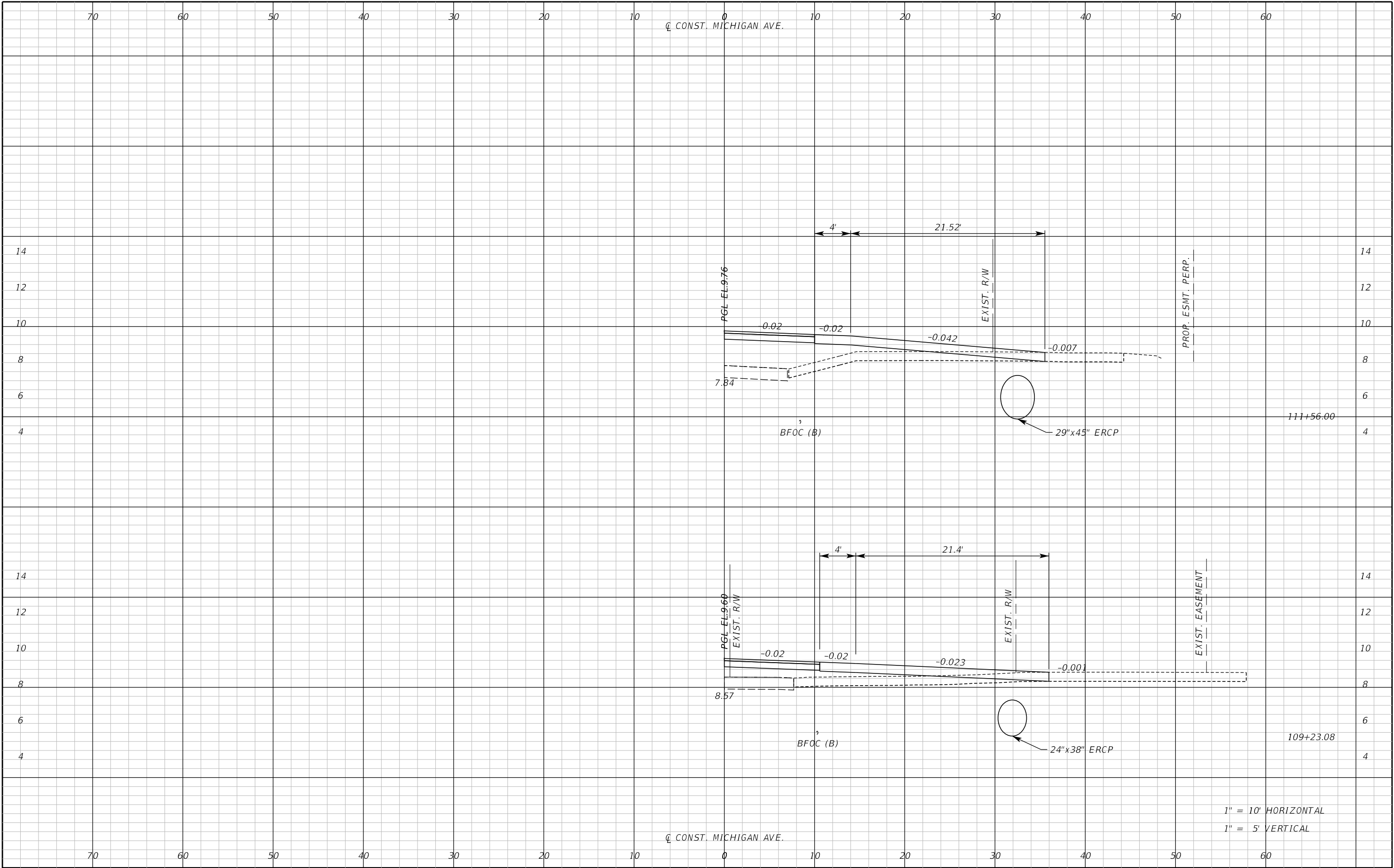
9:50:57 AM

\\ovl-dc01\Production\Projects\SEM-035-05\roadway\RDYSRDII.dgn

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



REVISIONS						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		DRIVEWAY SECTIONS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		
							MICHIGAN AVE.	02407100		55



REVISIONS						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540	SEMINOLE COUNTY ENGINEERING DIVISION		DRIVEWAY SECTIONS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		56
							MICHIGAN AVE.	02407100		

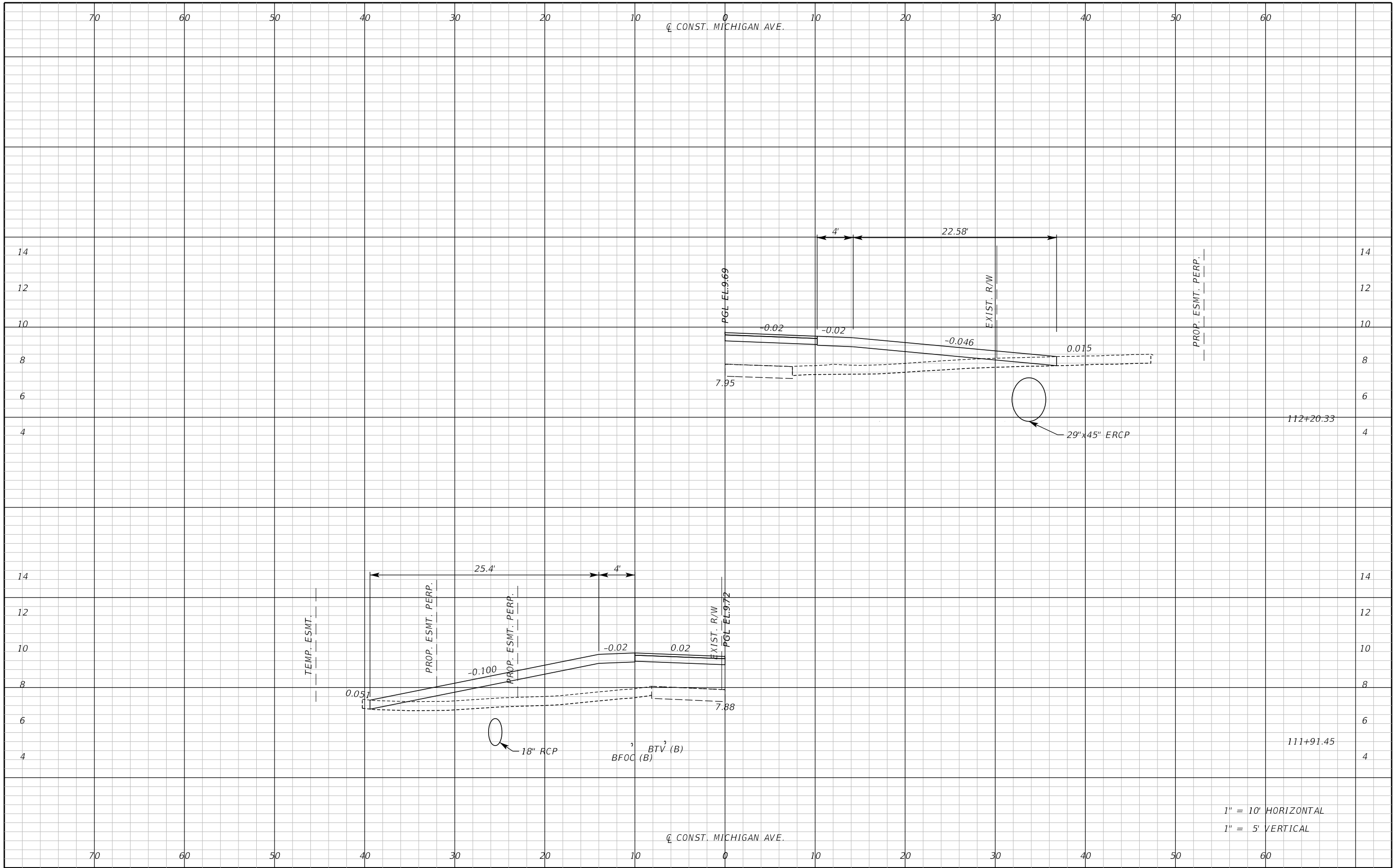
aalsaffar

3/7/2025

9:50:58 AM

\\ovl-dc01\Production\Projects\SEM-035-05\roadway\RDYSRDII.dgn

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



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

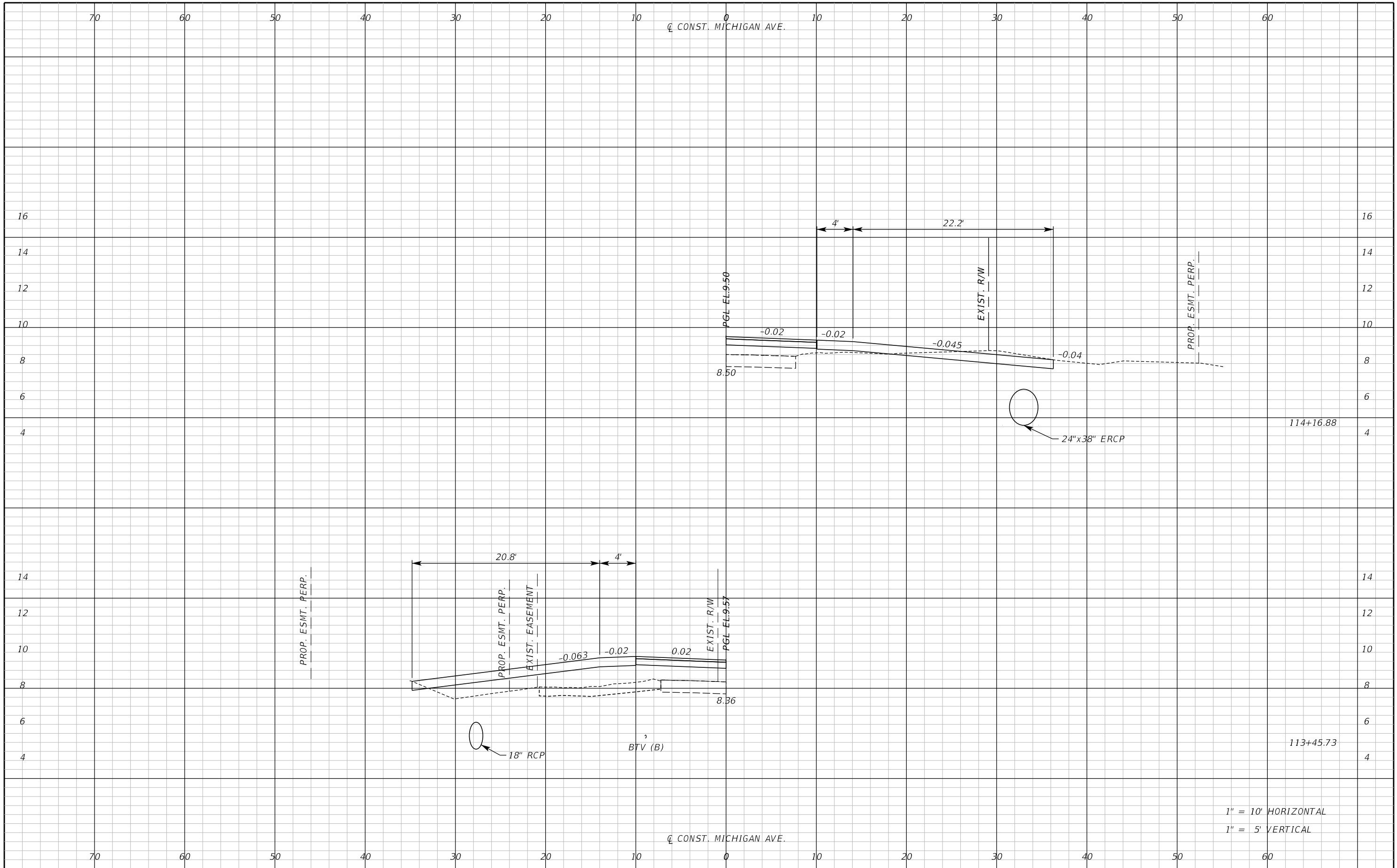
3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850

SEMINOLE COUNTY ENGINEERING DIVISION	
ROAD NO.	COUNTY CIP NO.
MICHIGAN AVE.	02407100

DRIVEWAY SECTIONS

SHEET NO. 57

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



REVISIONS						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540	SEMINOLE COUNTY ENGINEERING DIVISION		DRIVEWAY SECTIONS	SHEET NO. 58
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		
						3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	MICHIGAN AVE.	02407100		

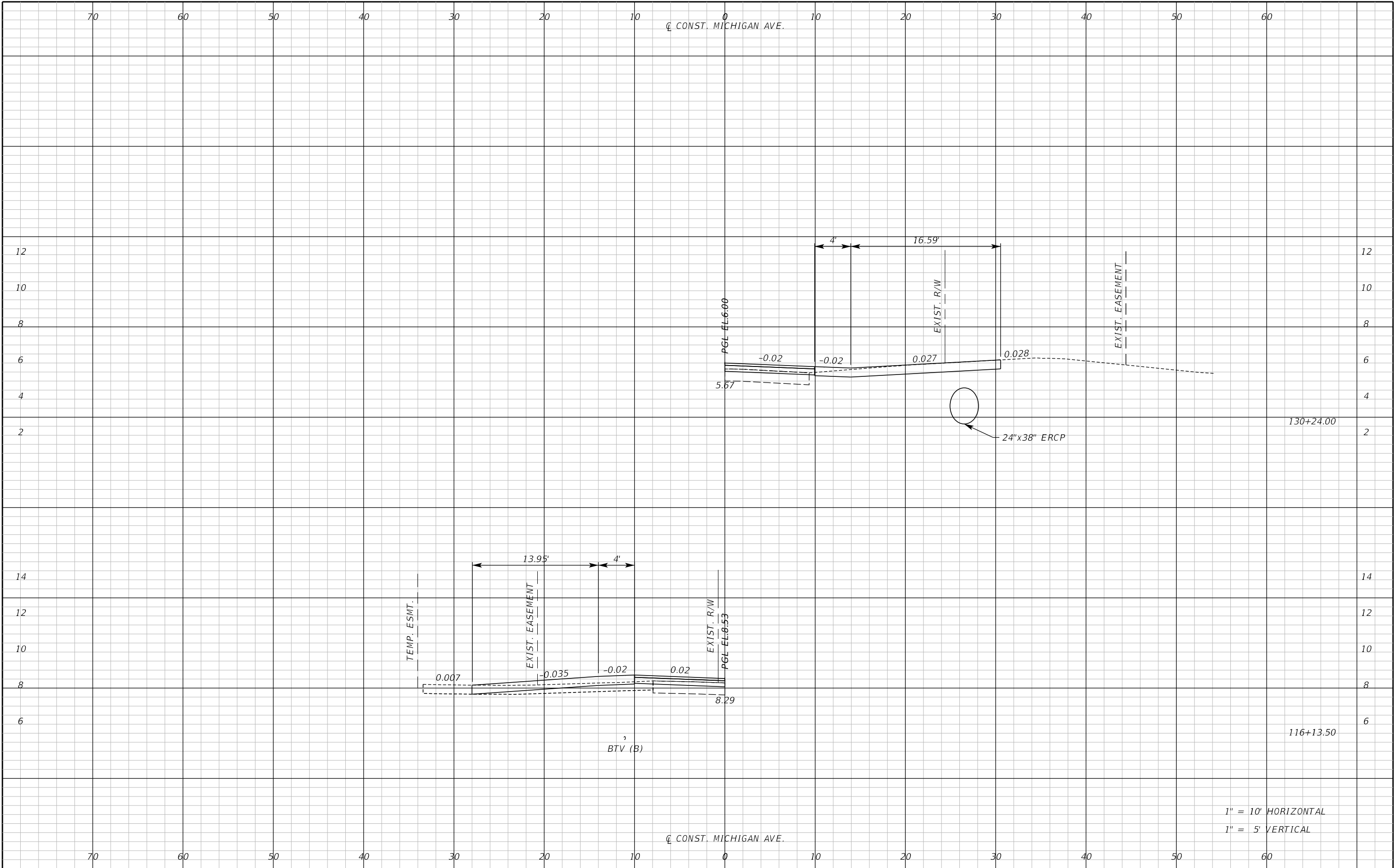
aalsaffar

3/7/2025

9:50:59 AM

\\ovl-dc01\Production\Projects\SEM-035-05\roadway\RD\SRDII.dgn

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



REVISIONS						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540	SEMINOLE COUNTY ENGINEERING DIVISION		DRIVEWAY SECTIONS	SHEET NO. 59
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		
						3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	MICHIGAN AVE.	02407100		

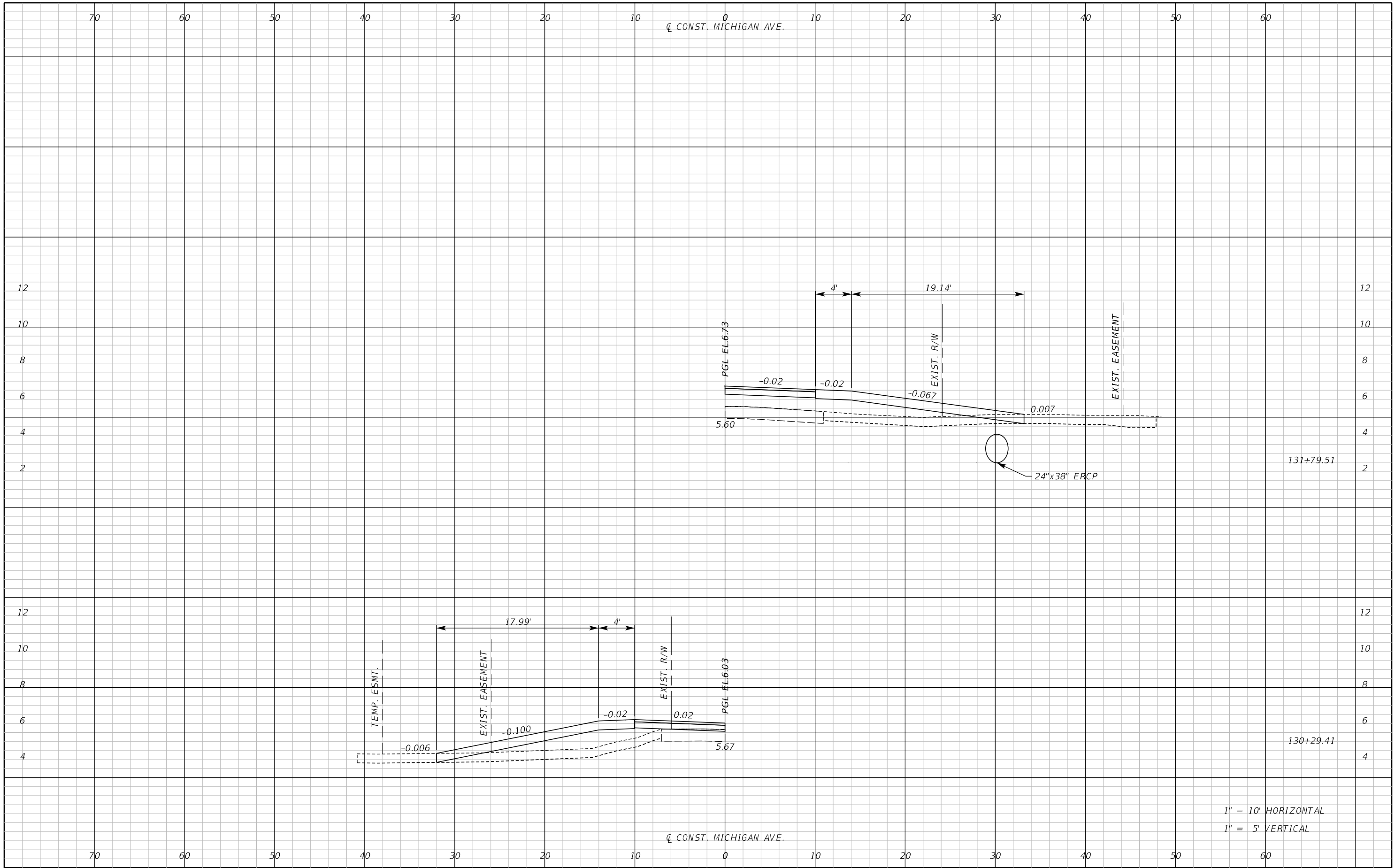
aalsaffar

3/7/2025

9:50:59 AM

\\ovl-dc01\Production\Projects\SEM-035-05\roadway\RDYSRDII.dgn

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



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850

SEMINOLE COUNTY
ENGINEERING DIVISION

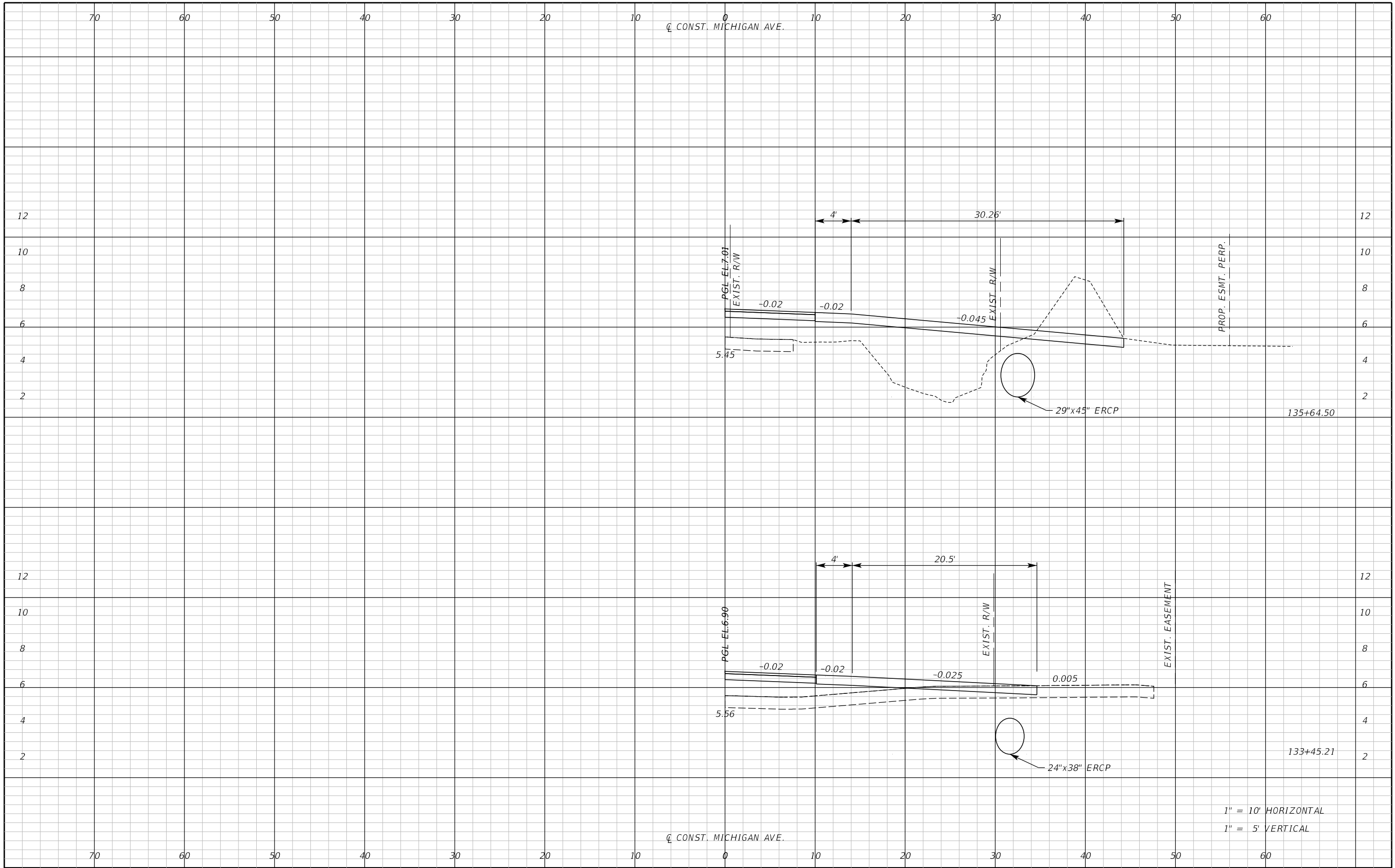
ROAD NO. MICHIGAN AVE.

COUNTY CIP NO. 02407100

DRIVEWAY SECTIONS

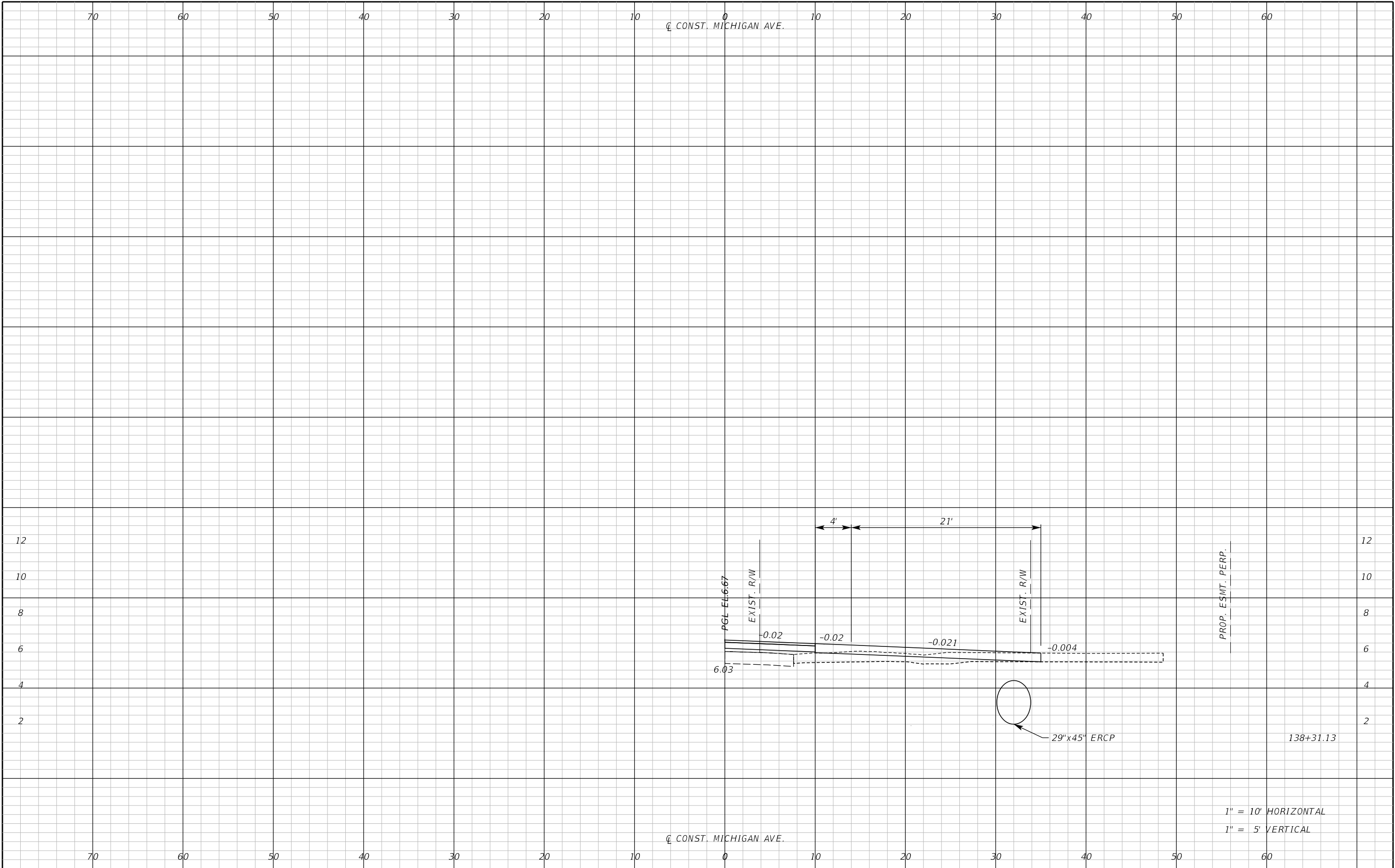
SHEET NO. 60

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



REVISIONS						 ARDURRA Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		DRIVEWAY SECTIONS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		61
							MICHIGAN AVE.	02407100		

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



R E V I S I O N S						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		DRIVEWAY SECTIONS	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		62
							MICHIGAN AVE.	02407100		

STORMWATER POLLUTION PREVENTION PLAN FOR MICHIGAN AVENUE DRAINAGE IMPROVEMENTS PROJECT
SEMINOLE COUNTY

I. SITE DESCRIPTION:

- (1) NATURE OF CONSTRUCTION ACTIVITY
THE PROPOSED IMPROVEMENTS CONSIST OF:
REGRADING OF THE EXISTING DITCH ON THE SOUTH SIDE OF MICHIGAN AVENUE,
REPLACEMENT OR UPSIZING OF EXISTING SIDE DRAINS WITHIN THE DITCH
AND EXISTING CROSSEDRAINS UNDER MICHIGAN AVENUE, REGRADING AREAS ALONG
THE NORTH SIDE OF MICHIGAN AVENUE NECESSARY FOR IMPROVING CONVEYANCE TO OUTFALLS,
AND RAISING OF THE ROADWAY PROFILE GRADE LINE (PGL) ALONG THE LOW SPOTS OF THE ROAD.
- (2) SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:
THE CONTRACTOR SHALL BE REQUIRED TO PREPARE A SITE SPECIFIC EROSION CONTROL PLAN ALONG WITH A
DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE
SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT.
THE CONTRACTOR WILL BE REQUIRED TO MODIFY THE PLAN OR MATERIALS TO ADAPT TO SEASONAL
VARIATIONS, CONSTRUCTION ACTIVITY VARIATIONS, OR AS DIRECTED BY THE ENGINEER. APPLICABLE
EROSION CONTROL DEVICES AND IMPLEMENTATION PROCEDURES ARE SUPPLIED IN THE STATE OF FLORIDA
EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEW MANUAL (E&SC MANUAL). THE ENGINEER IS
RESPONSIBLE FOR DETERMINING IF ANY MODIFICATIONS OR ADDITIONAL CONTROLS ARE REQUIRED AND TO
OBTAIN DEPLOYMENT SCHEDULES FOR THE IMPLEMENTATION OF ALL ADDITIONAL EROSION CONTROL DEVICES
FROM THE CONTRACTOR.
- (3) GENERAL NOTES:
(a) ALL EROSION AND SEDIMENT CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO
BEGINNING WORK ON THAT PHASE.
(b) INSTALL EROSION AND SEDIMENT CONTROL DEVICES WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION
AND SEDIMENT CONTROL PLAN FOR PERIMETER CONTROLS BEFORE THE LAND IS DISTURBED.
(c) PROVIDE SEDIMENT BARRIERS WHERE LISTED IN THE CONTRACTOR'S APPROVED EROSION AND SEDIMENT
CONTROL PLAN FOR DITCH BLOCKS DURING CONSTRUCTION.
(d) PROVIDE INLET PROTECTION SYSTEMS AT ANY IDENTIFIED INLET OPENINGS.
(e) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE.
(f) DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.
(g) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.
(h) DO NOT REMOVE PERIMETER CONTROLS UNTIL AFTER ALL UPSTREAM AREAS ARE FULLY STABILIZED AND
PERMANENT VEGETATION IS ESTABLISHED.
- (4) PROJECT AREAS
THE ESTIMATED TOTAL PROJECT AREA IS 7.38 ACRES.
THE ESTIMATED AREA TO BE DISTURBED DURING CONSTRUCTION ACTIVITIES IS 5.88 ACRES.
- (5) RUNOFF COEFFICIENTS BEFORE Cw(B), DURING Cw(D) AND AFTER Cw(A) CONSTRUCTION:
RUNOFF COEFFICIENT FOR:
GRASSED SHOULDERS ADJACENT TO ROADWAY: C=0.20
IMPERVIOUS ROADWAYS AND PAVED SHOULDER: C=0.90
DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C=0.40
- WEIGHTED RUN-OFF COEFFICIENT:
BEFORE: Cw(B) = 0.35 DURING: Cw(D) = 0.45 AFTER: Cw(A) = 0.35
- THE RUN-OFF COEFFICIENT DURING CONSTRUCTION, Cw(D), IS CALCULATED ASSUMING THAT THE MAXIMUM
ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION, AND THE REMAINING AMOUNT IS THE
EXISTING IMPERVIOUS AND GRASSED SHOULDER AREAS.
- (6) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE
THE SOIL WITHIN THE PROJECT AREA ENCOUNTERED IN THE PROPOSED PROJECT CONSISTS
PRIMARILY OF SAND:

SOIL NAME	SOIL DESCRIPTION	AASHTO SOIL CLASSIFICATION
BASINGER	FINE SAND	A-3 & A-2-4
DELRAY	FINE SAND	A-2-4, A-3, & A-2-6
FELDA	MUCKY FINE SAND	A-3, A-2-4, & A-2-6
MANATEE	MUCKY FINE SAND	A-2-4 & A-3
NITTAW	MUCK	A-8, A-2-4, A-3, & A-7
PINEDA	FINE SAND	A-3, A-2-4, A-4, & A-6
PINEDA, WET	FINE SAND	A-2-4, A-3, A-4, & A-6
ST. JOHNS	FINE SAND	A-3 & A-2-4
EUGALLIE	FINE SAND	A-3, A-2-4, A-2-6

REFERENCE: USDA SOIL SURVEY OF SEMINOLE COUNTY FLORIDA.

- (7) ESTIMATED DRAINAGE AREA AND AVERAGE SLOPE OF DRAINAGE AREA FOR EACH OUTFALL:
(a) SITE MAP: THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAP.
- (8) RECEIVING WATERS:
THE STORMWATER RUNOFF FROM THE SITE IS TO BE CONVEYED THROUGH THE PROPOSED ROADSIDE DITCH INTO
WETLANDS AT THE EASTERN TERMINUS OF THE PROJECT. SEVERAL RELIEF CROSS DRAINS ARE LOCATED ALONG THE
PROJECT WHICH DRAIN NORTH THROUGH WETLANDS. ALL WETLANDS DICHARGE TO THE ST. JOHNS RIVER.
- (9) THE OUTFALL IS AN IMPAIRED WATER.
- (10) OUTFALL LOCATIONS: (TEMPORARY AND PERMANENT)
(a) ROADSIDE DITCH AND WETLAND AT EASTERN END OF MICHIGAN AVENUE
- (11) WETLAND IMPACTS ARE ANTICIPATED.
- (12) DESCRIPTION OF STORMWATER MANAGEMENT: (EXISTING/PROPOSED)
(a) PRESENTLY, EXISTING DRAINAGE FLOWS DIRECTLY THROUGH A SERIES OF DITCHES ALONG MICHIGAN AVENUE
BEFORE DISCHARGING TO WETLANDS NORTH AND EAST OF THE ROAD.

(b) THE PROPOSED DRAINAGE PATTERN WILL REMAIN UNCHANGED.

(c) OFF-SITE RUNOFF SHOULD BE DIVERTED AWAY OR THROUGH THE CONSTRUCTION AREA, IF POSSIBLE.
THIS ADDITIONAL FLOW, IF NOT DIVERTED, CAN ADD VOLUME AND SIZE TO STRUCTURAL PRACTICES,
REQUIRING MORE FREQUENT MAINTENANCE AND LIMITING EFFECTIVENESS OF EROSION AND SEDIMENT
CONTROLS.

(d) THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL
PHASES OF CONSTRUCTION. THIS WILL BE ACCOMPLISHED BY USING STREET OR VACUUM SWEEPERS.

(e) THE STORMWATER SHALL BE CONVEYED TO THE NATURAL OUTFALLS LOCATED IN THIS PROJECT.

(f) THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT UNAUTHORIZED MATERIALS
FROM ENTERING WETLANDS, WATERWAYS, OTHER SURFACE WATERS OR WATERS OF THE US.

II. CONTROLS:
EROSION AND SEDIMENT CONTROLS

- (1) WATER QUALITY MONITORING SHALL BE CONDUCTED BY THE PROJECT ENGINEER UPON THE OBSERVATION
THAT THE WATER QUALITY STANDARDS MAY BE VIOLATED BY THE CONTRACTOR'S ACTIVITIES. MONITORING
LOCATIONS SHALL BE DESIGNATED BY THE PROJECT ENGINEER. THE PROJECT ENGINEER WILL BE RESPONSIBLE
FOR MONITORING ANY ACTIVITIES FOR VIOLATION OF WATER QUALITY STANDARDS AS THEY RELATE TO
TURBIDITY (29 NTU'S ABOVE BACKGROUND). MONITORING OF WATER QUALITY SHALL BE CONDUCTED A
MINIMUM OF TWICE DAILY FOR ANY EARTHWORK ACTIVITIES WITHIN THE STRUCTURE IMPROVEMENT AREA.
MONITORING WILL BE ACCOMPLISHED BY RECORDING TURBIDITY READINGS FROM THE CENTER OF THE
STREAM, ONE (1) UPSTREAM OF THE ACTIVITY AND ONE (1) DOWNSTREAM OF THE EROSION CONTROL DEVICES,
BUT WITHIN THE PROJECT RIGHT OF WAY. IF WATER QUALITY STANDARDS ARE VIOLATED, CONSTRUCTION
SHOULD BE STOPPED IMMEDIATELY AND EROSION CONTROL DEVICES REEVALUATED BY THE COUNTY REPRESENTATIVE
PRIOR TO ANY CONTINUATION OF ACTIVITY. MONITORING ACTIVITIES AND TURBIDITY READINGS SHALL BE
RECORDED ON THE CONSTRUCTION INSPECTION REPORT AND CONTINUED UNTIL TURBIDITY READINGS FALL
BELOW AN ACCEPTABLE LEVEL (29NTU'S ABOVE BACKGROUND). WATER QUALITY MONITORING MAY BE CONDUCTED
DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE PROJECT ENGINEER.
- (2) STABILIZATION PRACTICES:
- (a) STABILIZATION MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO MAINTAINING, ESTABLISHING AND USING
VEGETATION, APPLYING MULCHES, SODDING, SEEDING, BMP'S AND THE USE OF ROLLED EROSION CONTROLLED
PRODUCTS. WHEN CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, SIDE SLOPES
SHALL BE STABILIZED WITH PERFORMANCE SODDING OR SEEDING OR ANY OTHER APPROVED METHOD OF
STABILIZATION INCLUDED IN THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND
REVIEW MANUAL (E&SC MANUAL).
- (b) STABILIZATION SHALL TAKE PLACE AS SOON AS PRACTICAL IN PORTIONS OF THE PROJECT WHERE
CONSTRUCTION ACTIVITIES HAVE CEASED, BUT NO LATER THAN 7 DAYS AFTER ANY CONSTRUCTION ACTIVITY
CEASES EITHER TEMPORARILY OR PERMANENTLY.

R E V I S I O N S						 Dayna Duffy Durham, PE 3452 Lake Lynda Drive, Suite 200 PE No. 94511 Orlando, Florida 32817 Certificate of Authorization No. 555540 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		STORMWATER POLLUTION PREVENTION PLAN	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO. COUNTY CIP NO.			
							MICHIGAN AVE. 02407100			

- (c) ALL EROSION CONTROL DEVICES SHALL BE INSTALLED ACCORDING TO THE CONTRACT DOCUMENTS, AND THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN.
 - (d) ANY TEMPORARY MATERIAL USED FOR POLLUTION OR EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT AND FINAL STABILIZATION OF THE PROJECT HAS BEEN ACHIEVED.
 - (e) SEDIMENT BARRIERS SHOULD BE USED ALONG THE LENGTH OF THE PROJECT WHERE THE GROUND SLOPES AWAY FROM THE RIGHT OF WAY OR WHERE THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFF-SITE. PARTICULAR CARE SHOULD BE USED WHEN THERE ARE WETLANDS OR WATERS OF THE U.S. ARE INVOLVED. SEDIMENT BARRIERS SHOULD BE USED AROUND THE PERIMETER OF STOCKPILE AREAS.
 - (f) SPACING OF SEDIMENT BARRIERS USED AS DITCH OR SWALE CHECKS/DAMS SHOULD BE BASED UPON THE HEIGHT OF THE BARRIER AND THE SLOPE OF THE DITCH OR SWALE.
 - (g) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MODIFYING SOIL TRACKING PREVENTION SYSTEMS OR PROCEDURES AS NEEDED.
- (3) STRUCTURAL PRACTICES FOR EROSION AND SEDIMENT CONTROL:
- (a) ROLLED EROSION CONTROL PRODUCTS (ARTIFICIAL COVERINGS)

PURPOSE: TO PROTECT DISTURBED SLOPE SURFACES AGAINST EROSION DUE TO RAINFALL OR FLOWING WATER.

 - (1) USED FOR PAUSES IN CONSTRUCTION DUE TO INCLEMENT WEATHER OR OTHER CIRCUMSTANCES. COULD INCLUDE NATURAL OR SYNTHETIC FIBER MATS, PLASTIC SHEETING OR NETS.
 - (2) USED FOR EROSION CONTROL THAT FACILITATES PLANT GROWTH WHILE PERMANENT GRASS IS ESTABLISHED. COULD INCLUDE BIODEGRADABLE EROSION CONTROL BLANKETS INSTALLED ON A SEEDED AREA, ON FILL SLOPES OR IN DITCHES.
 - (3) USED TO STABILIZE DRAINAGE CHANNELS. CONSULT E&SC MANUAL TO DETERMINE CORRECT PRODUCT TYPE FOR CHANNEL STABILIZATION.
 - (b) RUNOFF CONTROL STRUCTURE (TEMPORARY SLOPE DRAIN)

PURPOSE: TO PROTECT HILLSIDE SURFACES AGAINST EROSION DUE TO CONCENTRATED FLOW OF RUNOFF WATER.

 - (1) USED ON FILL SLOPES AND CUT SLOPES TO REDUCE SEDIMENT TRANSPORT AND COULD INCLUDE TEMPORARY SLOPE DRAINS, GRASS-LINED CHANNELS, ROCK-LINED CHANNELS AND CHECK DAMS.
 - (2) RUNOFF CONTROL STRUCTURES TYPICALLY DISCHARGE TO A SEDIMENT BASIN.
 - (c) SEDIMENT BASIN (CONTAINMENT SYSTEM)

PURPOSE: A CONTAINMENT SYSTEM IS DESIGNED TO DETAIN AN ADEQUATE VOLUME OF RUNOFF, REDUCE THE VELOCITY OF FLOW THROUGH THE SYSTEM, ALLOW FOR SETTLEMENT OF SUSPENDED SOLIDS AND REGULATE THE DISCHARGE RATE FROM THE SEDIMENT BASIN.

 - (1) SEDIMENT BASINS MUST BE PLACED IN STRATEGIC LOCATIONS WITHIN THE ACTIVE AREAS OF CONSTRUCTION. CONTRIBUTING AREA AND SIZE OF TARGET SOIL PARTICLE WILL DICTATE WHETHER THE SEDIMENT BASIN WILL BE TYPE 1, TYPE 2 OR TYPE 3 SYSTEM.
 - (2) THE USE OF SMALLER PRE-SEDIMENTATION BASINS USED IN CONJUNCTION WITH LARGER PERMANENT RETENTION/DETENTION PONDS ARE EFFECTIVE IN CAPTURING LARGER VOLUMES OF SEDIMENTS. THIS TECHNIQUE REQUIRES PERIODICALLY SCHEDULED REMOVAL OF THE ACCUMULATED SEDIMENTS.
 - (d) SEDIMENT BARRIERS (TEMPORARY CONSTRUCTION SITE BMP'S)

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

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

- (e) **FLOATING TURBIDITY BARRIER**
- PURPOSE:** USED IN PERMANENT BODIES OF WATER TO RETAIN SEDIMENT AND FLOATING DEBRIS FROM A CONSTRUCTION AREA SO THAT REMOVAL OR CONTAINMENT OF THE MATERIAL IS POSSIBLE. THEY ARE ALSO USED TO CONTROL MIGRATION OF SUSPENDED SEDIMENTS.
- (1) TYPE I, LIGHT DUTY, IS USED WHERE THERE IS LITTLE OR NO CURRENT, NO WIND AND NO WAVE ACTION.
 - (2) TYPE II, MODERATE DUTY, IS USED WITH SOME CURRENT (<3.5 FT. PER SECOND) AND SOME EXPOSURE TO WIND.
 - (3) TYPE III, HEAVY DUTY, IS USED WITH GREATER CURRENT (3.5-5.0 FT. PER SECOND), MODERATE WIND AND WAVE ACTION.
 - (4) BARRIER MUST BE ATTACHED AT BOTH ENDS AND WEIGHTED ON THE BOTTOM.
 - (5) MULTIPLE LINES OF BARRIER MAY BE USED IN SOME CIRCUMSTANCES FOR ADDITIONAL PROTECTION.
 - (6) STANDARD PANELS FOR WATER DEPTHS ARE 5.0'. ADDITIONAL PANELS CAN BE USED FOR WATER DEPTHS > 5.0'.
- (f) **STAKED TURBIDITY BARRIER**
- PURPOSE:** THIS ITEM IS COMMONLY USED IN AREAS WHERE CONTINUOUS CONSTRUCTION ACTIVITIES CHANGE THE NATURAL CONTOURS AND DRAINAGE RUNOFF PATTERNS.
- (1) COMMONLY USED IN LAKES AND STREAMS AS A SEDIMENT CONTAINMENT SYSTEM. SHOULD NOT BE USED WHERE WATER CURRENTS MOVE THE CURTAIN AND DISLODGE COLLECTED SEDIMENTS.
 - (2) MAXIMUM DEPTH OF PANEL IS 3'-8".
 - (3) POST MUST BE A MINIMUM LENGTH OF 5.0' AND A MINIMUM OF 10" OF FABRIC MUST BE IMBEDDED IN THE GROUND.
- (g) **INLET PROTECTION SYSTEM**
- PURPOSE:** ANY OF A NUMBER OF SEDIMENT BARRIERS THAT EITHER PREVENT SEDIMENT FROM ENTERING AN INLET OR TRAP THE SEDIMENTS ONCE THEY ENTER THE INLET.
- (1) TYPICAL APPLICATIONS INCLUDE ROCK BARRIERS, FRAME AND FILTER BARRIERS, CURB INLET "SUMP" BARRIER, CURB INLET DIVERSION BERM, CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM OR CURB INLET INSET.
 - (2) SHOULD BE INSTALLED ONLY WHEN CONSTRUCTION ACTIVITIES ARE ON-GOING AND ONLY WHERE SUMP CONDITIONS EXIST.
 - (3) SHOULD NOT BE USED WHEN CONSTRUCTION IS COMPLETE AND SHOULD NOT BE USED IN AREAS WHERE FLOODING COULD ENCROACH INTO THE TRAVEL LANES.
- (h) **SOIL TRACKING PREVENTION DEVICE**
- PURPOSE:** TEMPORARY STRUCTURES TO ASSIST WITH THE REMOVAL OF SOIL MATERIAL CAPTURED ON VEHICLE TIRES BEFORE THE VEHICLES ENTER THE ROADWAY.
- (1) USE ONE DEVICE PER MILE WITH A MINIMUM OF TWO PER PROJECT.
 - (2) USE ADDITIONAL DEVICES FOR CONSTRUCTION AREAS THAT ARE NOT ADJACENT TO THE ROAD RIGHT OF WAY AND NO ACCESS IS PROVIDED THROUGH A SOIL TRACKING PREVENTION DEVICE.
 - (3) RRR PROJECTS SHOULD BE HANDLED ON A CASE BY CASE BASIS.

R E V I S I O N S						 Dayna Duffy Durham, PE 3452 Lake Lynda Drive, Suite 200 PE No. 94511 Orlando, Florida 32817 Certificate of Authorization No. 555540 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		STORMWATER POLLUTION PREVENTION PLAN	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO. COUNTY CIP NO.			64

III. OTHER CONTROLS:

- (1) WASTE DISPOSAL:

(a) THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES.

(b) ALL FERTILIZER AND CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

(c) NO SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO WETLANDS OR BURIED ON SITE.

(d) ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.

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

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

(3) STATE AND LOCAL REGULATIONS: PERMITS WILL BE REQUIRED FROM THE FOLLOWING AGENCIES:

SJRWMD

(4) NON-STORMWATER (INCLUDING SPILL REPORTING)

THE CONTRACTOR WILL PROVIDE SEMINOLE COUNTY WITH AN EROSION CONTROL PLAN THAT WILL INCLUDE SPILL CONTAINMENT, REPORTING, AND RESPONSES. THE PLAN SHALL SPECIFY WHAT MANAGEMENT PRACTICES AND CONTAINMENT METHODS WILL BE USED TO PREVENT POTENTIAL POLLUTANTS (FUEL, LUBRICANTS, HERBICIDES, ETC.) FROM SPILLING ONTO THE SOIL OR INTO THE SURFACE WATERS. IF A SPILL DOES OCCUR, OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT SEMINOLE COUNTY HEALTH DEPARTMENT IMMEDIATELY.

IV. DEWATERING OPERATIONS:

- (1) DESCRIPTION: DEWATERING OPERATIONS ARE PRACTICES THAT MANAGE THE DISCHARGE OF TURBID WATER WHEN WATER OTHER THAN STORMWATER AND ACCUMULATED SURFACE WATER THAT MUST BE REMOVED FROM A LOCATION SO THAT CONSTRUCTION WORK MAY BE ACCOMPLISHED. THESE WATERS CAN INCLUDE GROUNDWATER, WATER FROM COFFERDAMS, WATER DIVERSIONS AND WATERS USED DURING CONSTRUCTION THAT MUST BE REMOVED FROM A WORK AREA.

(a) ENVIRONMENTAL AGENCIES ARE ESPECIALLY CONVERED WITH PROTECTION OF WETLANDS FROM DRAWDOWN EFFECTS, PROTECTING RECEIVING BODIES FROM SEDIMENTATION AND POSSIBLE CAPACITY LIMITATIONS.

(b) THREE PRIMARY METHODS OF DEWATERING COMMONLY USED IN FLORIDA ARE RIM-DITCHING, SOCK/PIPE/HORIZONTAL WELLS AND WELL-POINT SYSTEMS.

(c) METHODS FOR CONTAINING SEDIMENTATION CAN INCLUDE A COMBINATION OF BMP'S AND SEDIMENT TRAPS, SEDIMENT BASINS, GRAVITY BAG FILTERS, WEIR TANKS, DEWATERING TANKS, AND SAND MEDIA/PRESSURIZED BAGS

V. WATER FLOW:

- (1) GIVEN THE DITCH DISCHARGE RATES THAT WOULD OCCUR FOR REGULAR FLOW AND STORM EVENTS WITH SIGNIFICANT RAINFALL, COMPLETE BYPASSING OF ALL POSSIBLE FLOWS MAY NOT BE POSSIBLE. THEREFORE, THE CONTRACTOR'S FLOW BYPASS PLAN SHOULD ADDRESS ALL ISSUES INVOLVED INCLUDING THE MEANS AND METHODS FOR ALLOWING WATER FLOW TO "PASS" THROUGH THE CONSTRUCTION AREA WITHOUT CAUSING AN ADVERSE IMPACT TO UPSTREAM WATER LEVELS AND OFFSITE PROPERTIES.
- (2) THE FOLLOWING DITCH FLOW RATES CAN BE ANTICIPATED AT THE PROJECT LOCATION FOR VARIOUS STORM EVENTS.

(a) 10 YEAR/24 HOUR STORM EVENT PEAK DISCHARGE = 48 CFS

(b) 25 YEAR/24 HOUR STORM EVENT PEAK DISCHARGE = 60 CFS
- (3) SOME AREAS MAY REQUIRE THE USE OF TEMPORARY SHEETING OR SHORING.

VI. MAINTENANCE:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF SEDIMENT BUILDUP THROUGH THE LIFE OF THE INSTALLED EROSION AND SEDIMENT CONTROL DEVICES.

- (1) ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR AND ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF NOTICE.

(2) SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

(3) SYNTHETIC BALES SHALL BE MAINTAINED TO ENSURE THEIR USEFULNESS AND NOT BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

(4) STAKED SILT FENCES SHALL BE REPLACED EVERY TWELVE (12) MONTHS OR WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE.

(5) STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

VII. INSPECTION:

- (1) THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD WEEKLY RAINFALL IN ACCORDANCE WITH THE NPDES PERMIT. ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR.

(2) ALL EROSION AND WATER POLLUTION ABATEMENT AND CONTROL MEASURES WILL BE INSPECTED DAILY BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.

(3) THE CONTRACTOR SHALL COMPLETE ALL SWPPP INSPECTION REPORT FORMS REQUIRED FOR THE NPDES PERMIT.

VIII. TRACKING AND REPORTING:

- (1) THE CONTRACTOR SHALL SUBMIT A WEEKLY REPORT TO THE DEPARTMENT DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS.

(2) PREPARATION OF ALL THE CONTRACTOR'S REPORTS OF INSPECTION, MAINTENANCE AND REPAIRS REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION, SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION CONTROL DEVICES OF THE PROJECT.

(3) THE CONTRACTOR SHALL USE THE MOST RECENT CONSTRUCTION INSPECTION REPORT (# 650-040-03), FOR DAILY INSPECTIONS.

REVISIONS						 ARDURRA Dayna Duffy Durham, PE 3452 Lake Lynda Drive, Suite 200 PE No. 94511 Orlando, Florida 32817 Certificate of Authorization No. 555540 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		STORMWATER POLLUTION PREVENTION PLAN	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		65
							MICHIGAN AVE.	02407100		

EROSION CONTROL GENERAL NOTES

1.

THE CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT TO THE VOLUME AND AMOUNT THAT ARE EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THIS CONDITION WILL BE SATISFIED FOR THE TOTAL ANTICIPATED CONSTRUCTION PERIOD. PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY AND CAPACITY OF CHECK WEIRS, SEDIMENT BASINS, SLOPE DRAINS, GRADING PATTERNS, ETC. REQUIRED TO MEET THIS PROVISION THROUGHOUT THE LIFE OF THE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE SYNTHETIC BALES, SILT BARRIERS, TEMPORARY GRASSING, ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THIS SPECIFICATION.
2.

NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
3.

THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL BE CONTROLLED, SO THAT THIS OPERATION WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
4.

INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN STORMWATER RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET. (SEE NOTE 16).
5.

AREAS OPENED BY CONSTRUCTION OPERATIONS THAT ARE NOT ANTICIPATED TO BE DRESSED OR RECEIVE FINAL GRASSING TREATMENT WITHIN THIRTY DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER DURING THE SEASON IN WHICH IT IS PLANTED. TEMPORARY SEEDING SHALL BE CONTROLLED SO AS TO NOT ALTER OR COMPETE WITH PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE 30 POUNDS PER ACRE.
6.

THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITIONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.
7.

IF AFTER 14 DAYS, THE TEMPORARY GRASSED AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED TO ESTABLISH THE DESIRED VEGETATION COVER.
8.

ALL FEATURES OF THE PROJECT SHALL BE CONSTRUCTED TO PREVENT EROSION AND SEDIMENT AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.
9.

ALL DISTURBED AREAS OUTSIDE THE EXCAVATION AND FILL LIMITS WILL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR CONDITION PRIOR TO CONSTRUCTION.
10.

THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL NEWLY PLANTED GRASSES OR VEGETATION AND RETENTION/DETENTION FACILITIES UNTIL THE WORK HAS BEEN ACCEPTED BY THE COUNTY.
11.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF EMBANKMENTS AND SHALL REPLACE ANY PORTION, WHICH IN THE OPINION OF THE ENGINEER, HAS BECOME DISPLACED DUE TO EROSION OR DUE TO CARELESSNESS OR NEGLIGENCE ON THE PART OF THE CONTRACTOR.
12.

THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS CONTROLLING POLLUTION OF THE ENVIRONMENT. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO CONTROL EROSION AND SEDIMENT RUNOFF FROM THE SITE DURING CONSTRUCTION. SUCH METHODS SHALL BE IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.
13.

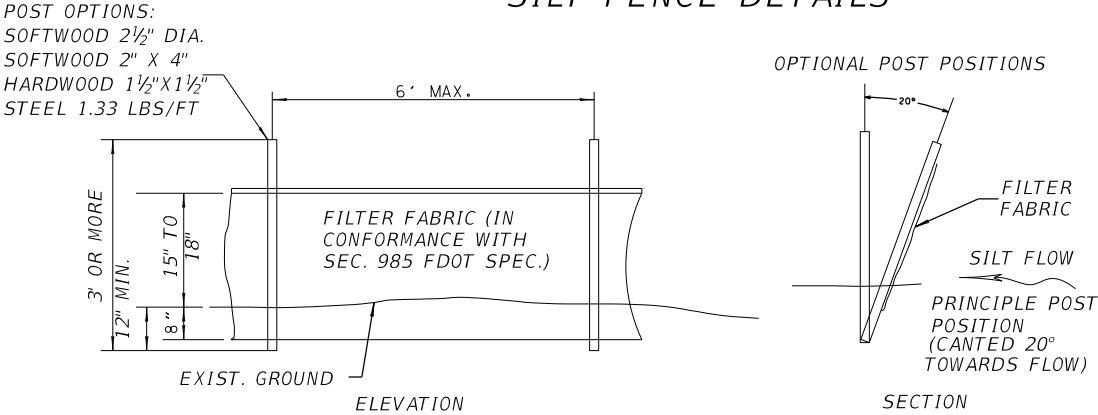
ABSOLUTELY NO WORK WILL BE ALLOWED WITHIN ANY CONSERVATION AREA, BUFFER AREA, MITIGATION AREA OR DESIGNATED WETLAND AREA UNLESS SO SPECIFICALLY DESCRIBED BY THE PLANS AND GRANTED BY REASON OF PERMIT FROM THE GOVERNMENTAL ENTITY HAVING JURISDICTION OVER SAID AREA.
14.

PRIOR TO CLEARING AND GRUBBING, THE LIMITS OF WETLANDS, BUFFERS, AND MITIGATION AREAS SHALL BE CLEARLY MARKED ALONG THE PROPOSED RIGHT OF WAY LINE TO PROTECT THESE AREAS FROM ENCROACHMENT FROM CONSTRUCTION ACTIVITIES.
15.

ALL FILL EMBANKMENT AND GRADED AREAS SHALL BE PROTECTED AGAINST EROSION BY METHODS STATED IN SECTION 104, "F.D.O.T. STANDARD SPECIFICATIONS FOR BRIDGE AND ROAD CONSTRUCTION." SIDE SLOPES MAY BE SEEDED AND MULCHED, PROVIDED THAT THE MULCH MATERIAL IS DISK HARROWED AND THE SIDE SLOPES ARE NEITHER GREATER THAN 1:3 NOR PART OF A DRAINAGE CONVEYANCE.
16.

EROSION CONTROL AT ALL INLET DRAINAGE STRUCTURES DURING CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.

SILT FENCE DETAILS



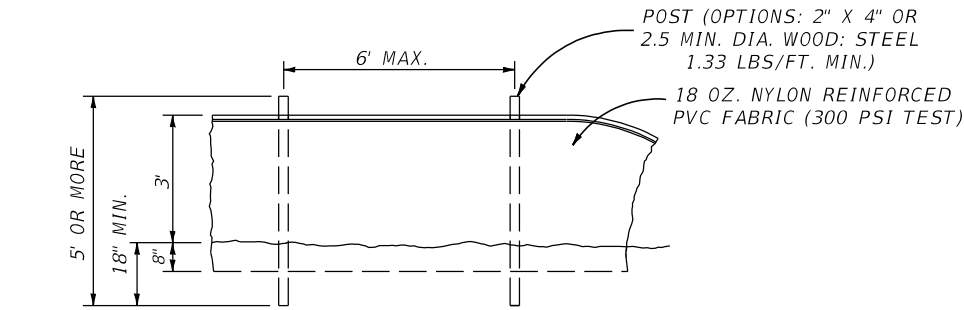
- NOTES:
1.

SILT FENCE TO BE PAID FOR UNDER THE CONTRACT LUMP SUM UNIT PRICE FOR EROSION CONTROL , PAY ITEM NO. 104-10-3.
2.

DO NOT DEPLOY IN A MANNER THAT SILT FENCES WILL ACT AS A DAM ACROSS PERMANENT FLOWING WATER COURSES. SILT FENCES ARE TO BE USED AT UPLAND LOCATIONS AND TURBIDITY BARRIERS ARE TO BE USED AT PERMANENT BODIES OF WATER.
3.

WHERE USED AS SLOPE PROTECTION SILT FENCE IS TO BE CONSTRUCTED ON 0% LONGITUDINAL GRADE TO AVOID CHANNELIZING RUNOFF ALONG THE LENGTH OF THE FENCE.

STAKED TURBIDITY BARRIER DETAILS



- NOTES:
1.

TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
2.

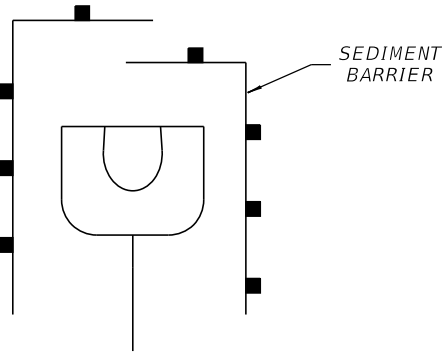
THE NUMBER AND SPACING OF ANCHORS IS DEPENDENT ON CURRENT VELOCITIES.
3.

DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO TO ACCOMMODATE CONSTRUCTION OPERATIONS.
4.

NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.
5.

FOR ADDITIONAL INFORMATION, SEE THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.
6.

TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING OR STAKED TYPES OR ANY COMBINATIONS OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPES WILL BE AT THE CONTRACTOR'S OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS; HOWEVER, PAYMENT WILL BE UNDER THE LUMP SUM UNIT PRICE FOR EROSION CONTROL. POSTS IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.



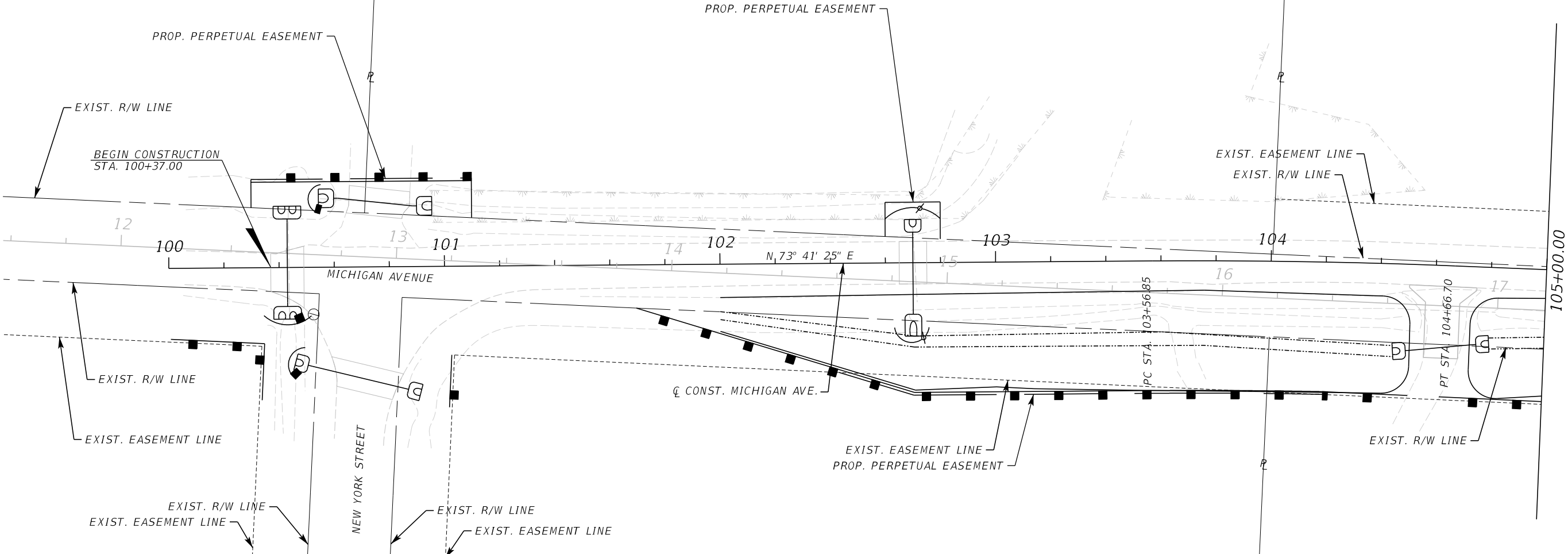
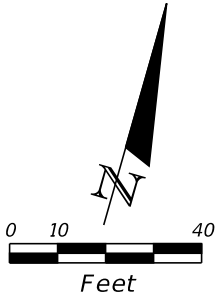
EROSION CONTROL AT MITERED END SECTION

REVISIONS						ARDURRA Dayna Duffy Durham, PE 3452 Lake Lynda Drive, Suite 200 PE No. 94511 Orlando, Florida 32817 Certificate of Authorization No. 555540 p 407.971.8850
-----------	--	--	--	--	--	---

LEGEND

SEDIMENT BARRIER

STAKED TURBIDITY BARRIER



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Dayna Duffy Durham, PE

3452 Lake Lynda Drive, Suite 200

PE No. 94511

Orlando, Florida 32817

Certificate of Authorization No. 555540

p 407.971.8850

SEMINOLE COUNTY

ENGINEERING DIVISION

ROAD NO.

COUNTY CIP NO.

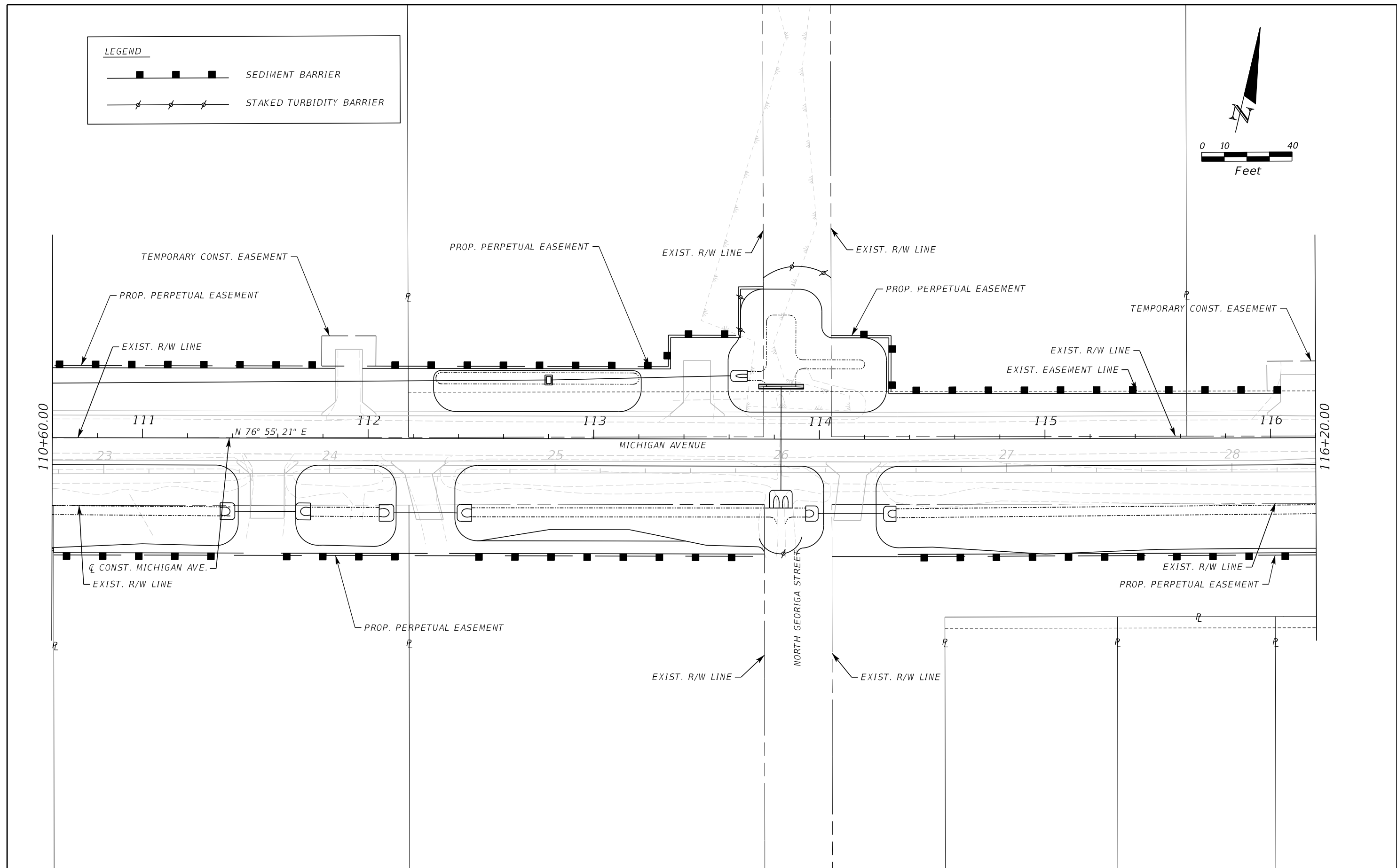
MICHIGAN AVE.

02407100

EROSION CONTROL PLAN

67

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

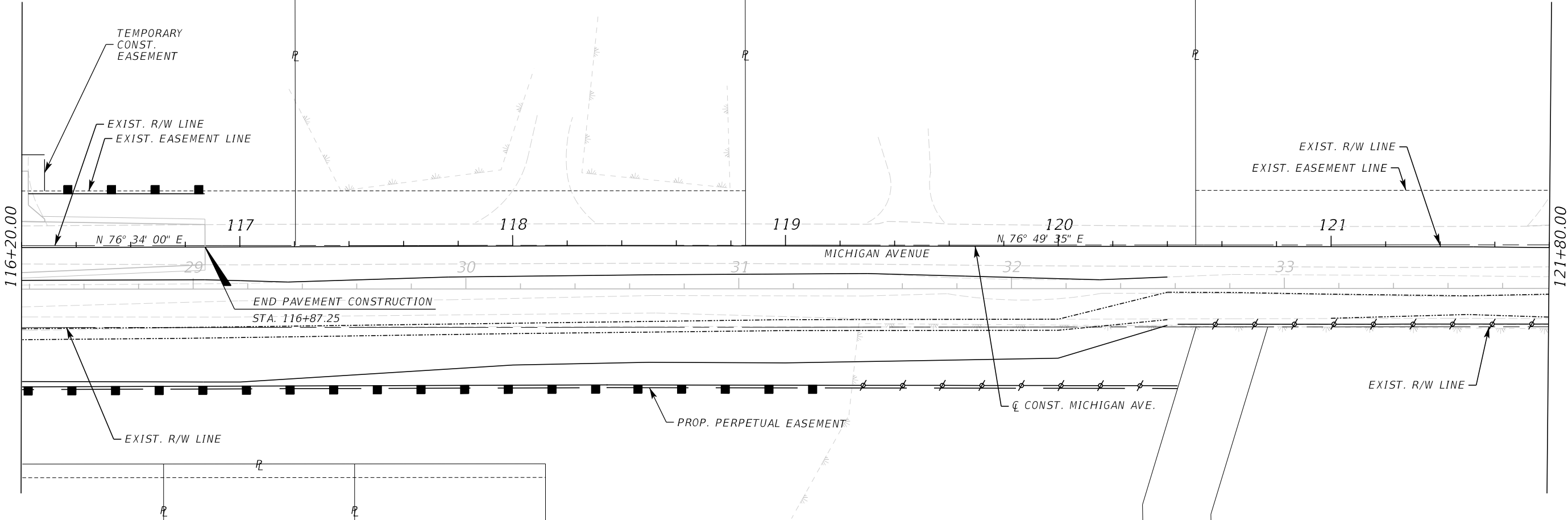
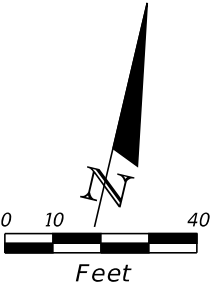


REVISIONS						 ARDURRA Dayna Duffy Durham, PE 3452 Lake Lynda Drive, Suite 200 PE No. 94511 Orlando, Florida 32817 Certificate of Authorization No. 555540 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		EROSION CONTROL PLAN	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		69

LEGEND

—■—■—■— SEDIMENT BARRIER

—/—/—/— STAKED TURBIDITY BARRIER



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Dayna Duffy Durham, PE 3452 Lake Lynda Drive, Suite 200
PE No. 94511 Orlando, Florida 32817
Certificate of Authorization No. 555540 p 407.971.8850

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO.	COUNTY CIP NO.
MICHIGAN AVE.	02407100

EROSION CONTROL PLAN

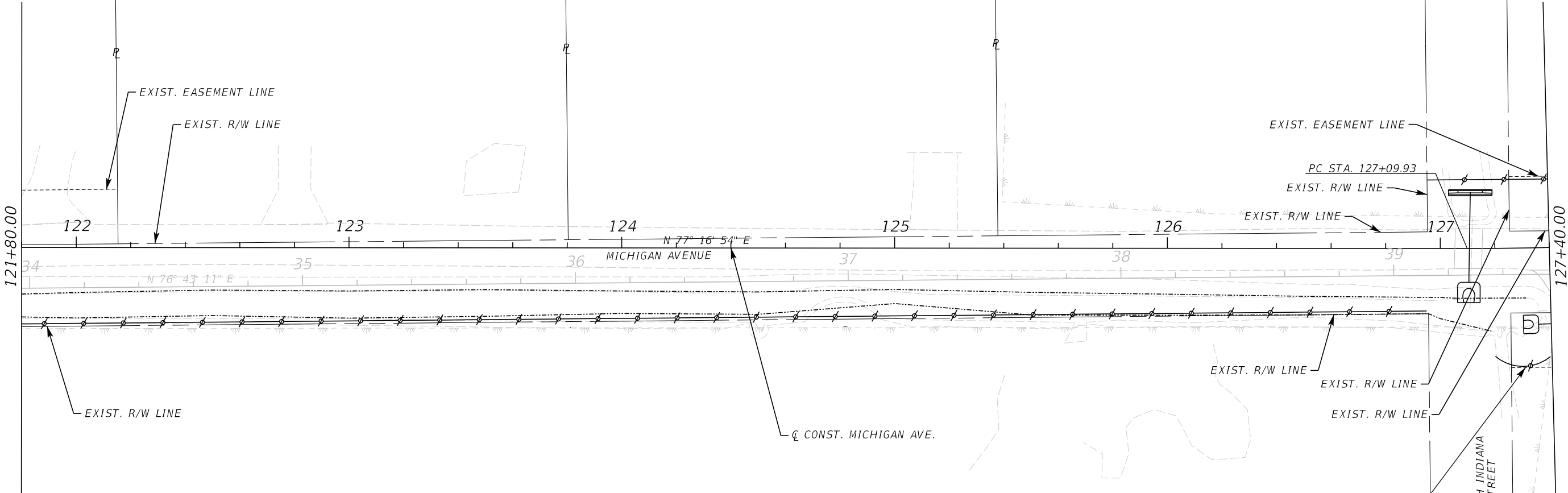
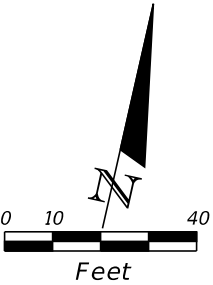
SHEET NO.
70

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

LEGEND

SEDIMENT BARRIER

STAKED TURBIDITY BARRIER



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Dayna Duffy Durham, PE

3452 Lake Lynda Drive, Suite 200

PE No. 94511

Orlando, Florida 32817

Certificate of Authorization No. 555540

SEMINOLE COUNTY

ENGINEERING DIVISION

ROAD NO.

COUNTY CIP NO.

MICHIGAN AVE.

02407100

EROSION CONTROL PLAN

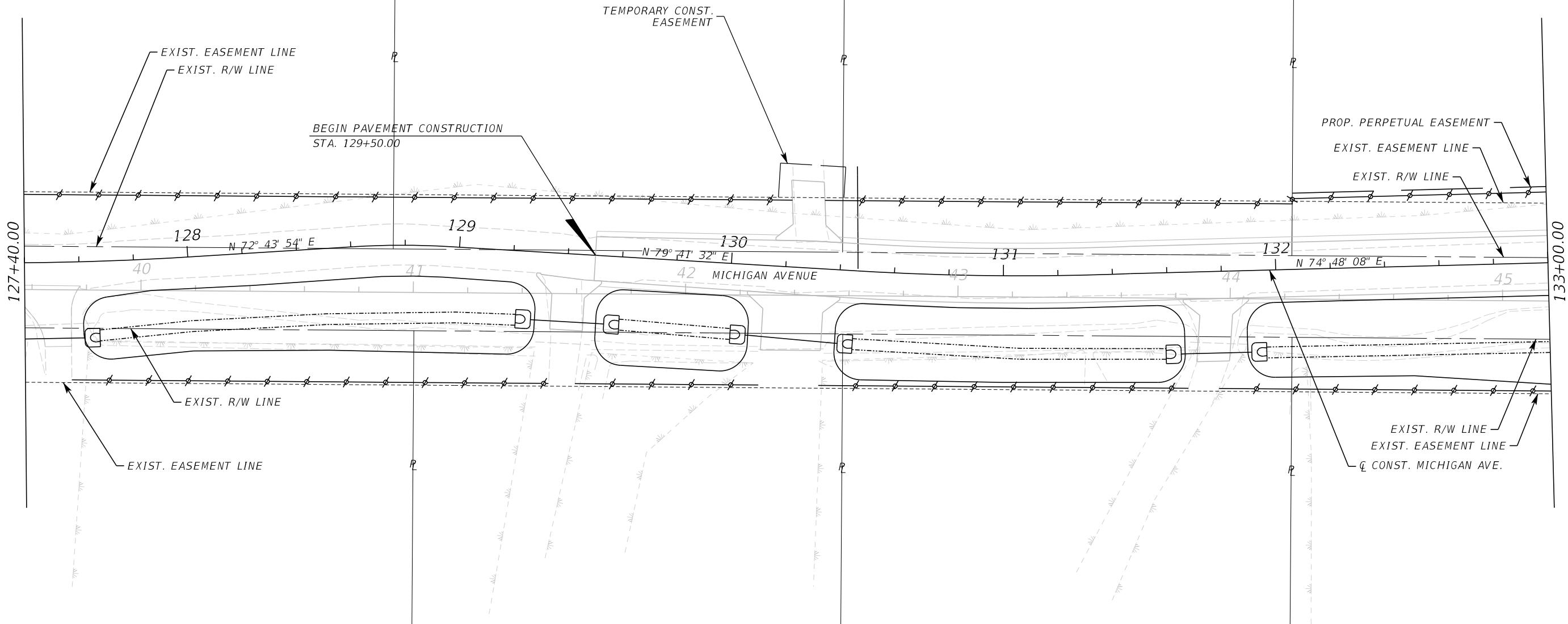
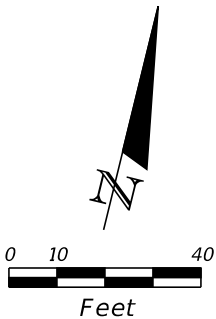
71

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

LEGEND

SEDIMENT BARRIER

STAKED TURBIDITY BARRIER



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Dayna Duffy Durham, PE

3452 Lake Lynda Drive, Suite 200

PE No. 94511

Orlando, Florida 32817

Certificate of Authorization No. 555540

p 407.971.8850

SEMINOLE COUNTY

ENGINEERING DIVISION

ROAD NO.

COUNTY CIP NO.

MICHIGAN AVE.

02407100

EROSION CONTROL PLAN

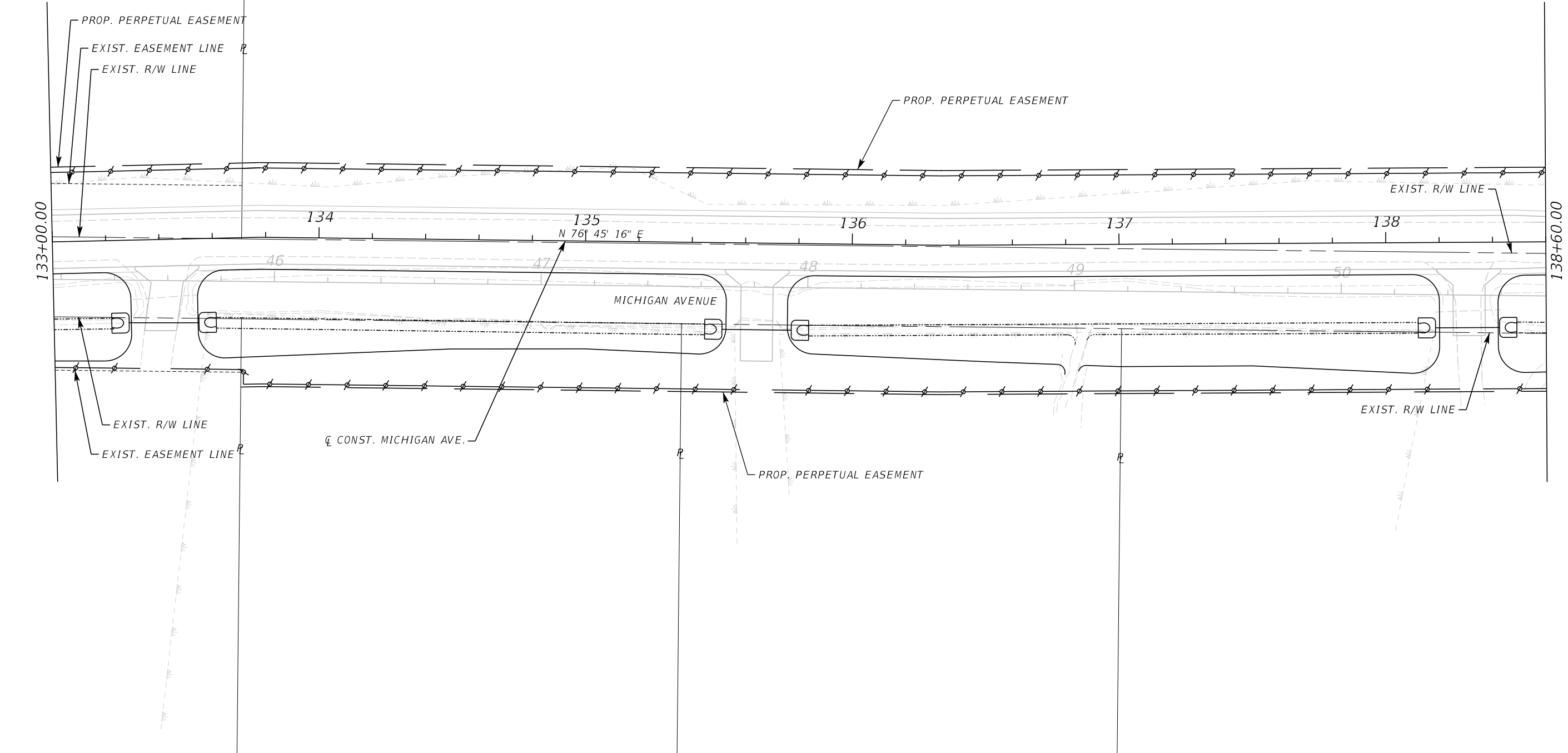
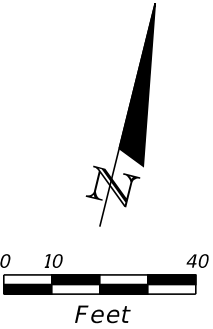
72

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

LEGEND

SEDIMENT BARRIER

STAKED TURBIDITY BARRIER

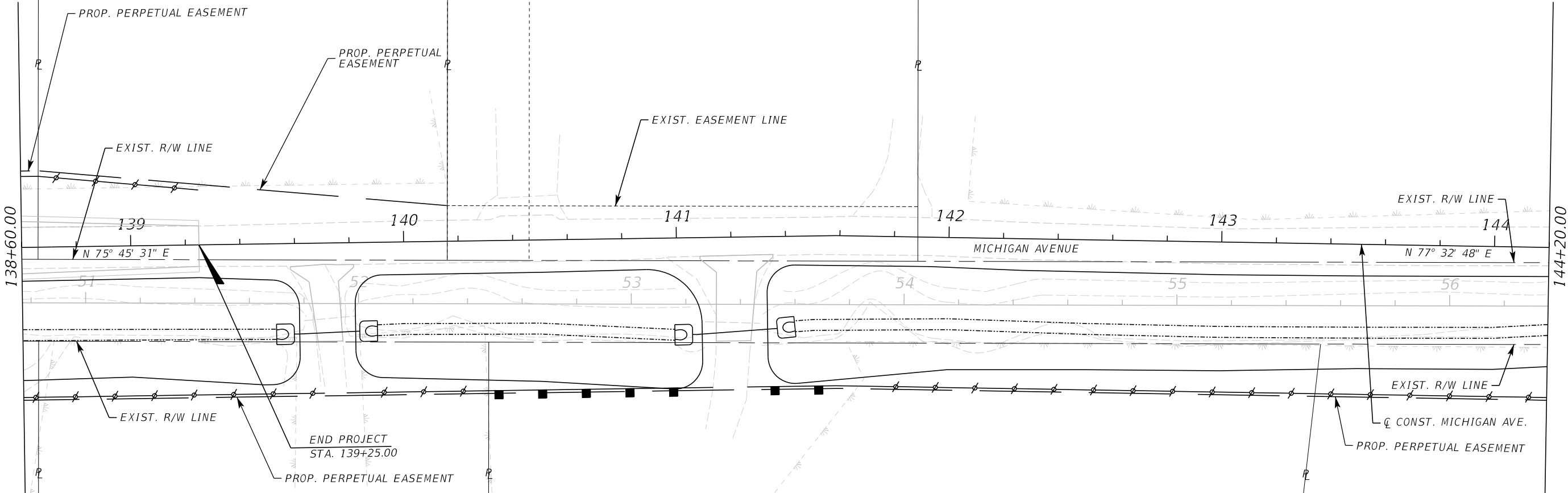
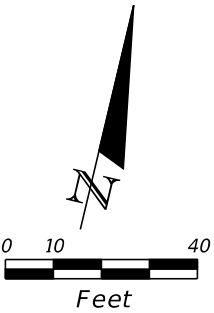


REVISIONS						 Dayna Duffy Durham, PE 3452 Lake Lynda Drive, Suite 200 PE No. 94511 Orlando, Florida 32817 Certificate of Authorization No. 555540 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		EROSION CONTROL PLAN	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		73
							MICHIGAN AVE.	02407100		

LEGEND

SEDIMENT BARRIER

STAKED TURBIDITY BARRIER



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

Dayna Duffy Durham, PE

3452 Lake Lynda Drive, Suite 200

PE No. 94511

Orlando, Florida 32817

Certificate of Authorization No. 555540

p 407.971.8850

SEMINOLE COUNTY

ENGINEERING DIVISION

ROAD NO.

COUNTY CIP NO.

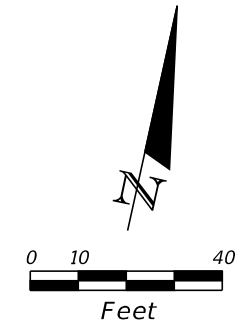
MICHIGAN AVE.

02407100

EROSION CONTROL PLAN

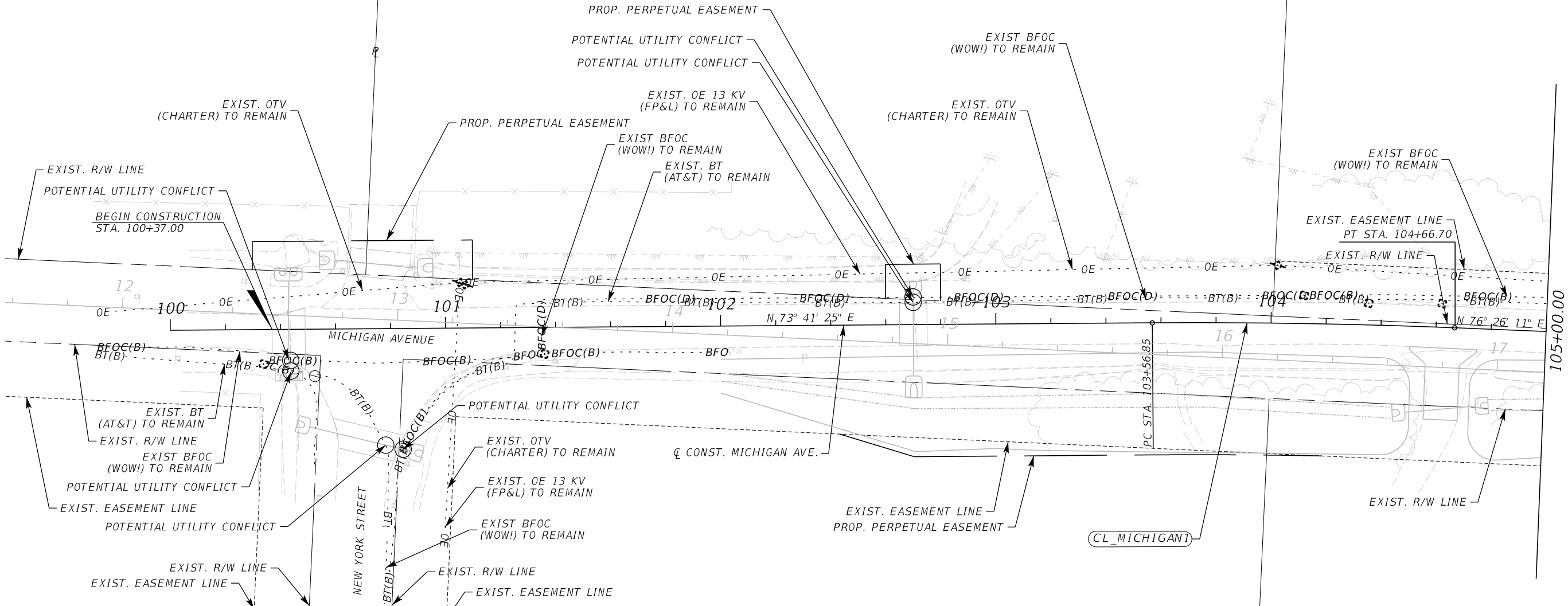
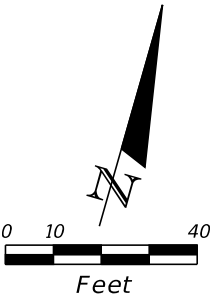
74

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



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

NOTE: UTILITY COORDINATION IS ONGOING



CURVE DATA (CL_MICHIGAN1)			
PI STA.	=	104+11.78	
Δ	=	2° 44' 46" (RT)	
D	=	2° 29' 59"	
T	=	54.94	
L	=	109.85	
R	=	2,292.00	
PC STA.	=	103+56.85	
PT STA.	=	104+66.70	

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850

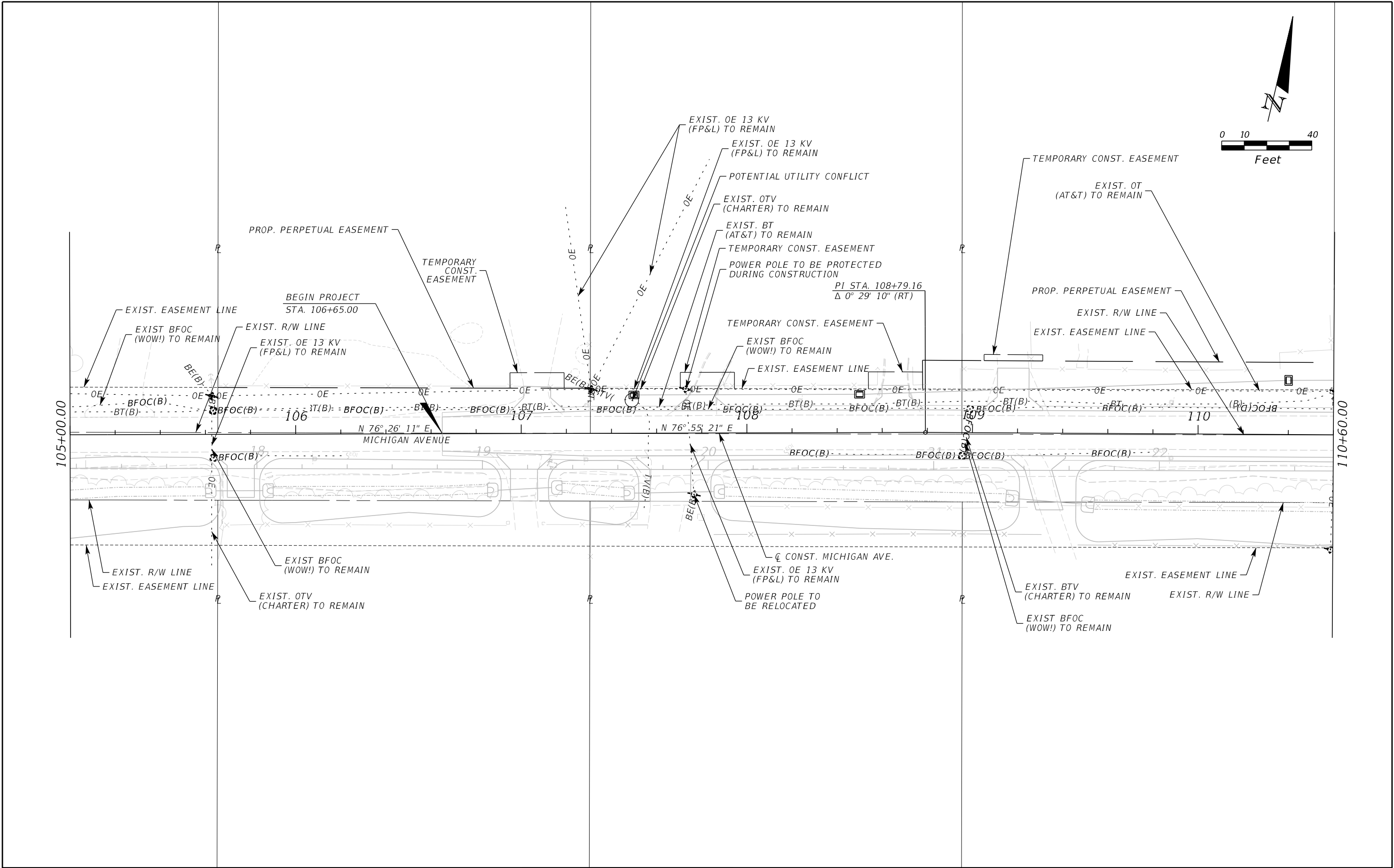
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO.	COUNTY CIP NO.
MICHIGAN AVE.	02407100

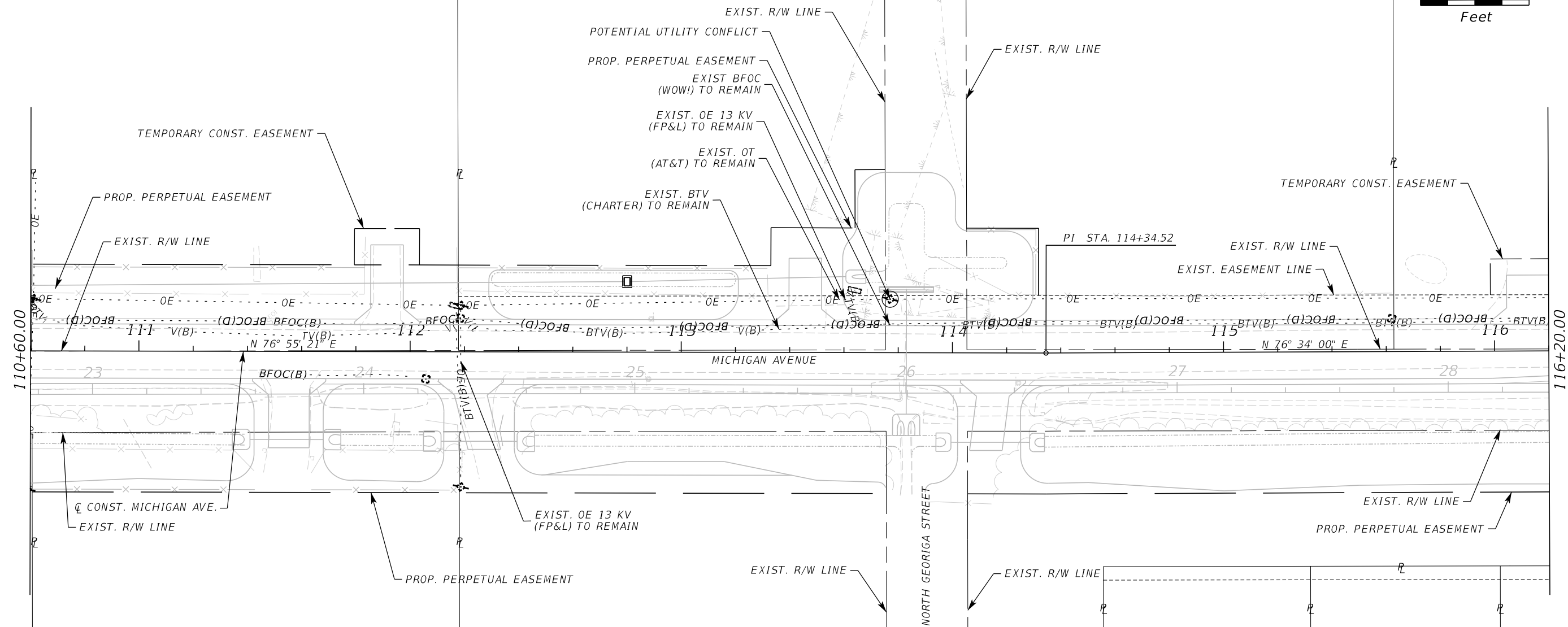
UTILITY ADJUSTMENTS
MICHIGAN AVE.

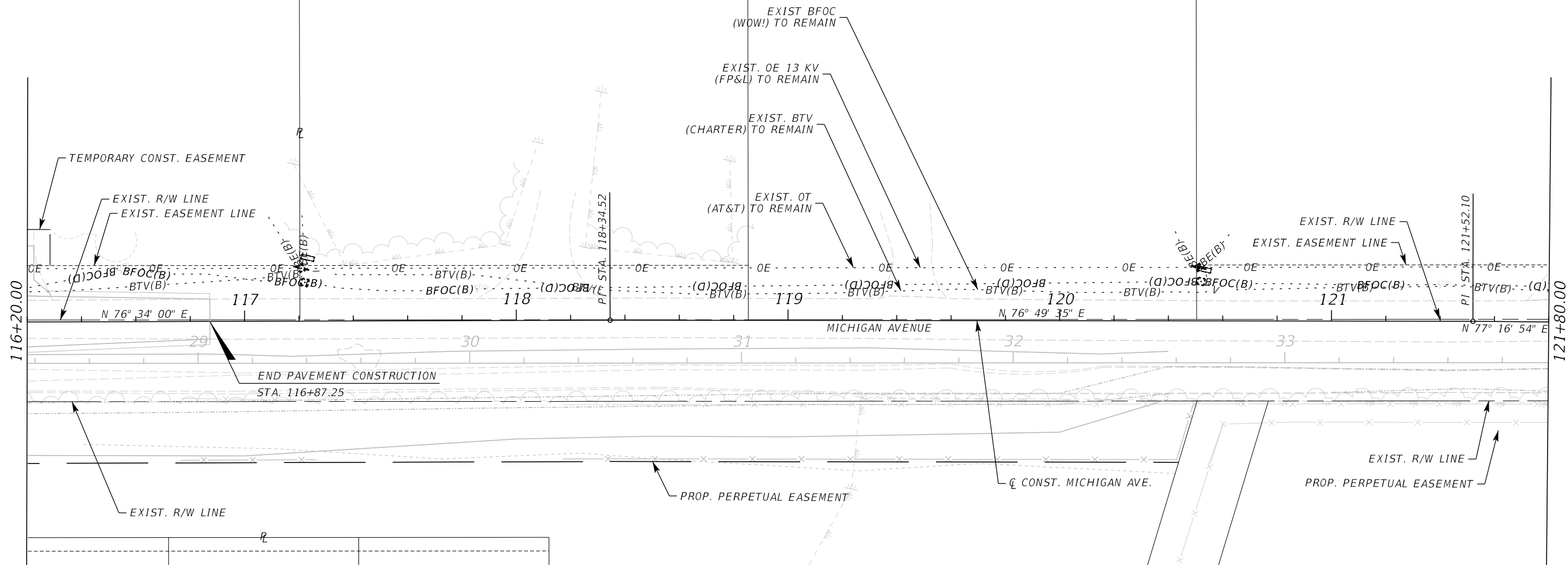
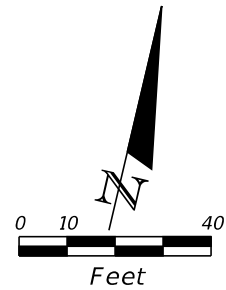
SHEET NO.
76

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

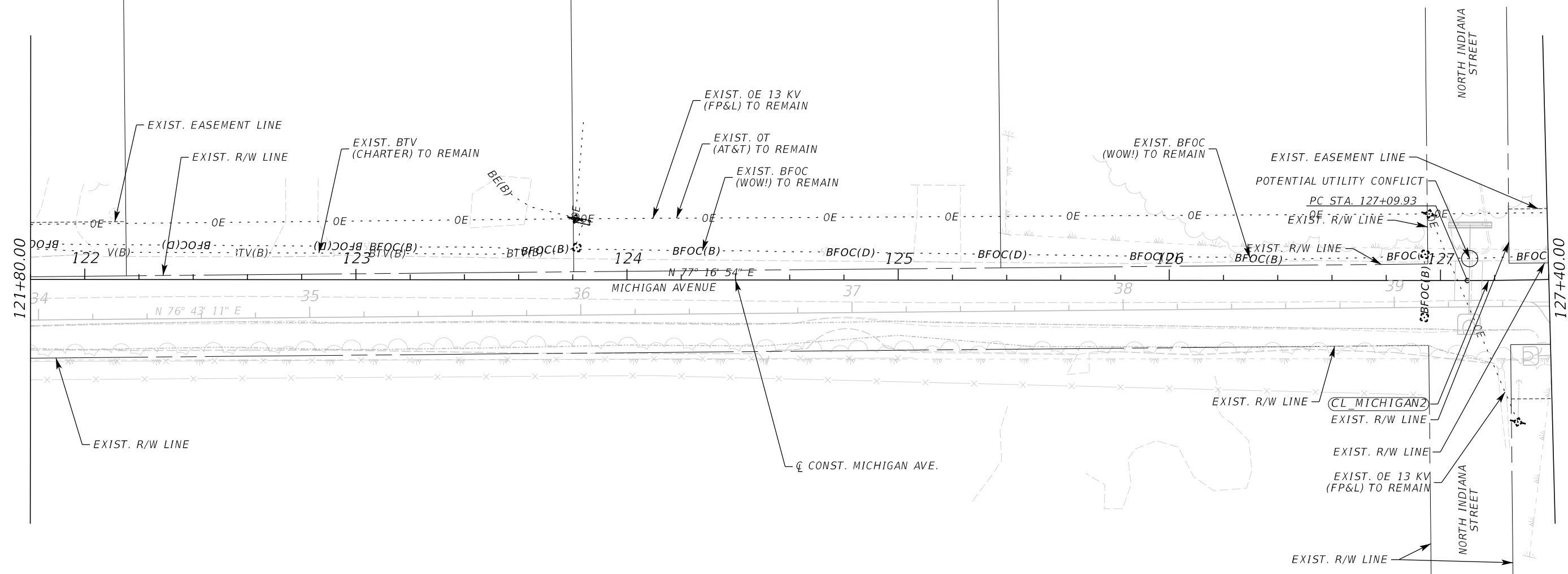
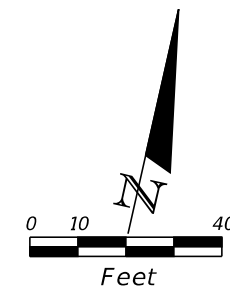


REVISIONS						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		UTILITY ADJUSTMENTS MICHIGAN AVE.	SHEET NO. 77
DATE	BY	DESCRIPTION		DATE	BY		ROAD NO.	COUNTY CIP NO.		
							MICHIGAN AVE.	02407100		





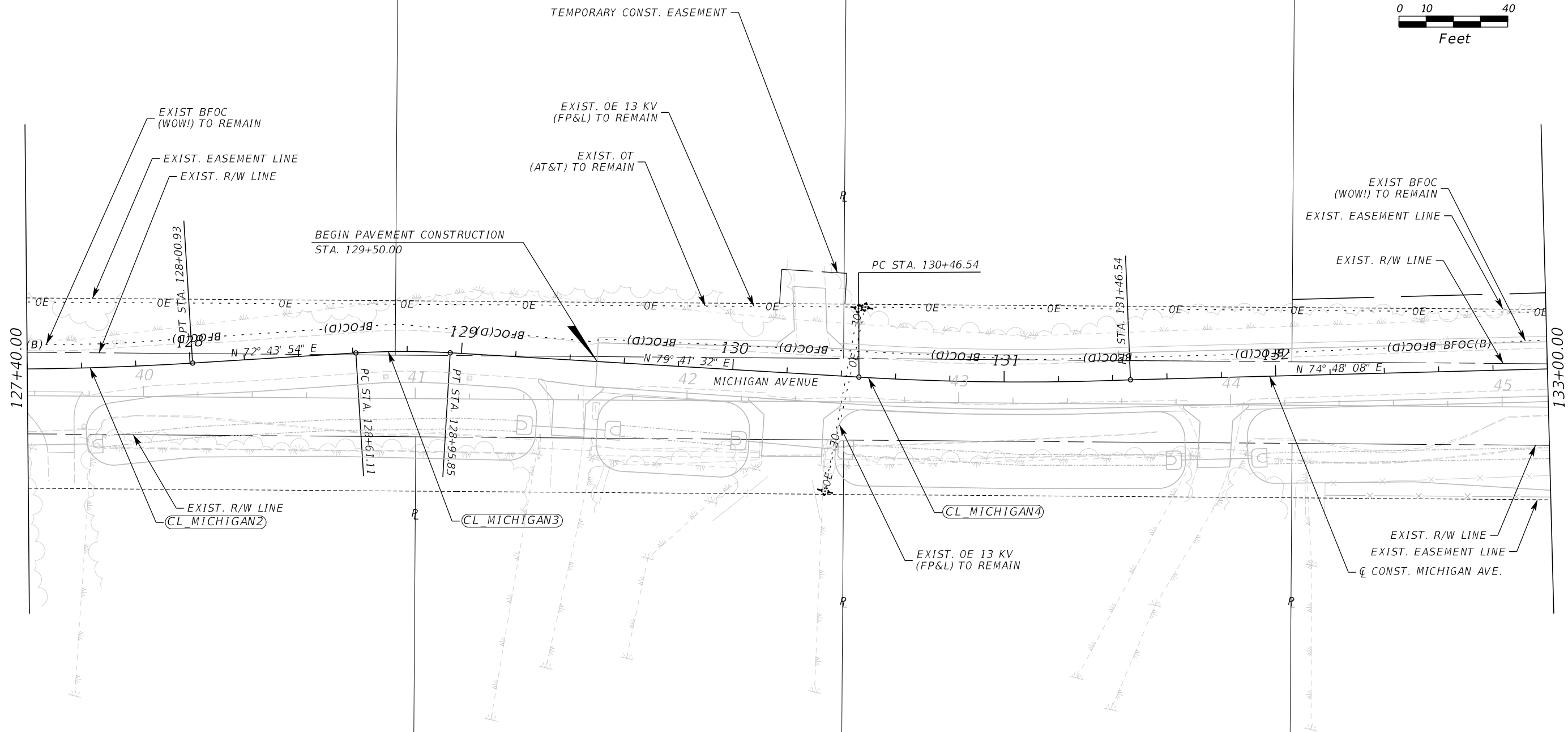
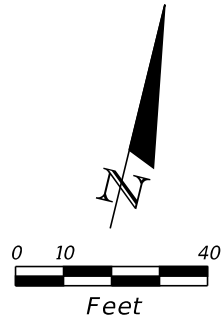
REVISIONS						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		UTILITY ADJUSTMENTS MICHIGAN AVE.	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		79



CURVE DATA (CL MICHIGAN2)
PI STA. = 127+55.45
Δ = 4° 33' 00" (LT)
D = 4° 59' 59"
T = 45.53
L = 91.01
R = 1,146.00
PC STA. = 127+09.93
PT STA. = 128+00.93

REVISIONS						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540	SEMINOLE COUNTY ENGINEERING DIVISION		UTILITY ADJUSTMENTS MICHIGAN AVE.	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		80
							MICHIGAN AVE.	02407100		

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



CURVE DATA (CL MICHIGAN2)
PI STA. = 127+55.45
Δ = 4° 33' 00" (LT)
D = 4° 59' 59"
T = 45.53
L = 91.01
R = 1,146.00
PC STA. = 127+09.93
PT STA. = 128+00.93

CURVE DATA (CL MICHIGAN3)
PI STA. = 128+78.50
Δ = 6° 57' 37" (RT)
D = 20° 02' 01"
T = 17.39
L = 34.74
R = 286.00
PC STA. = 128+61.11
PT STA. = 128+95.85

CURVE DATA (CL MICHIGAN4)
PI STA. = 130+96.58
Δ = 5° 40' 52" (LT)
D = 5° 40' 52"
T = 50.04
L = 100.00
R = 1,008.55
PC STA. = 130+46.54
PT STA. = 131+46.54

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850

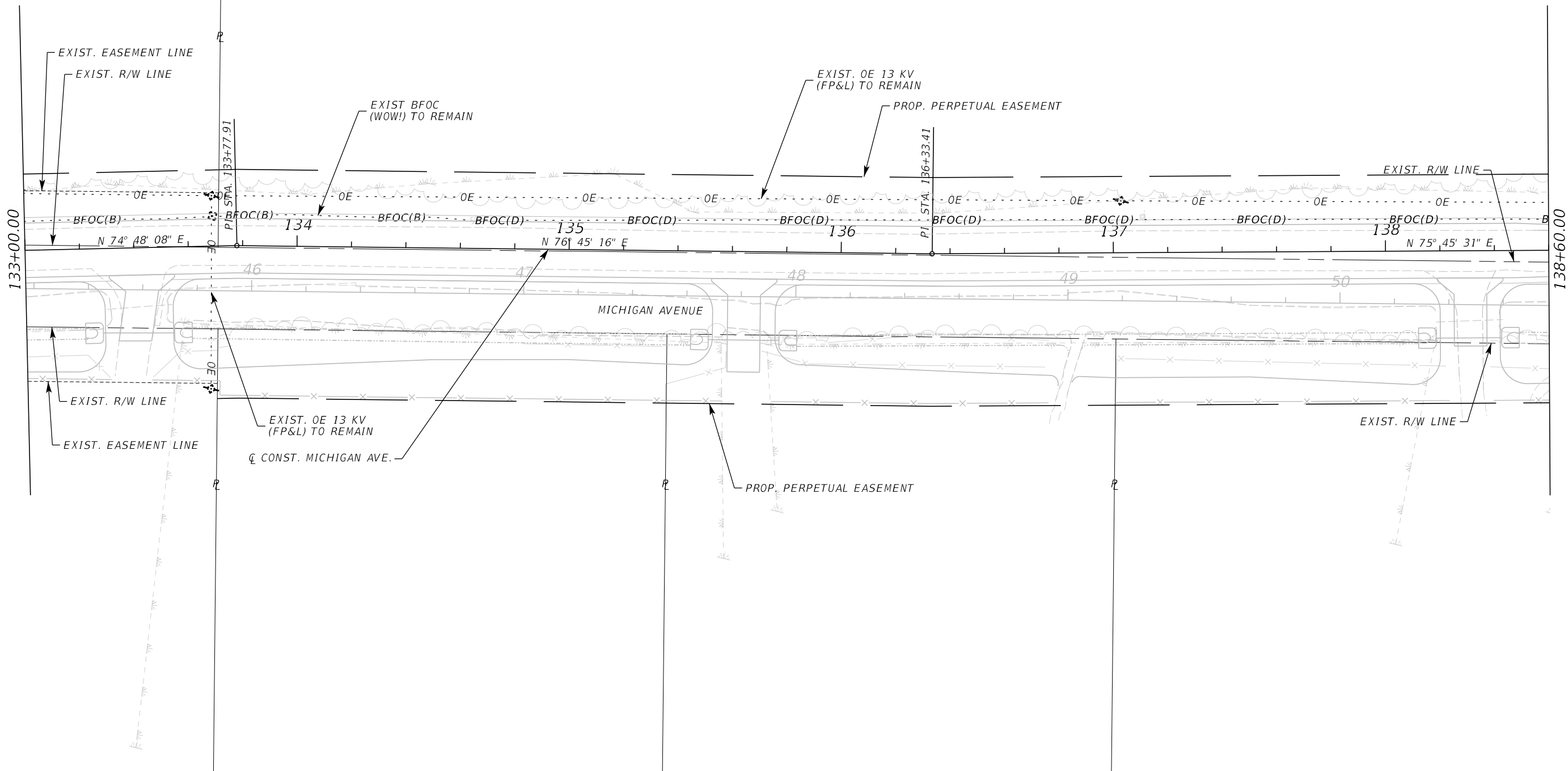
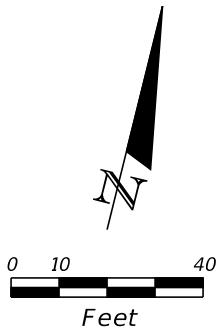
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO.	COUNTY CIP NO.
MICHIGAN AVE.	02407100

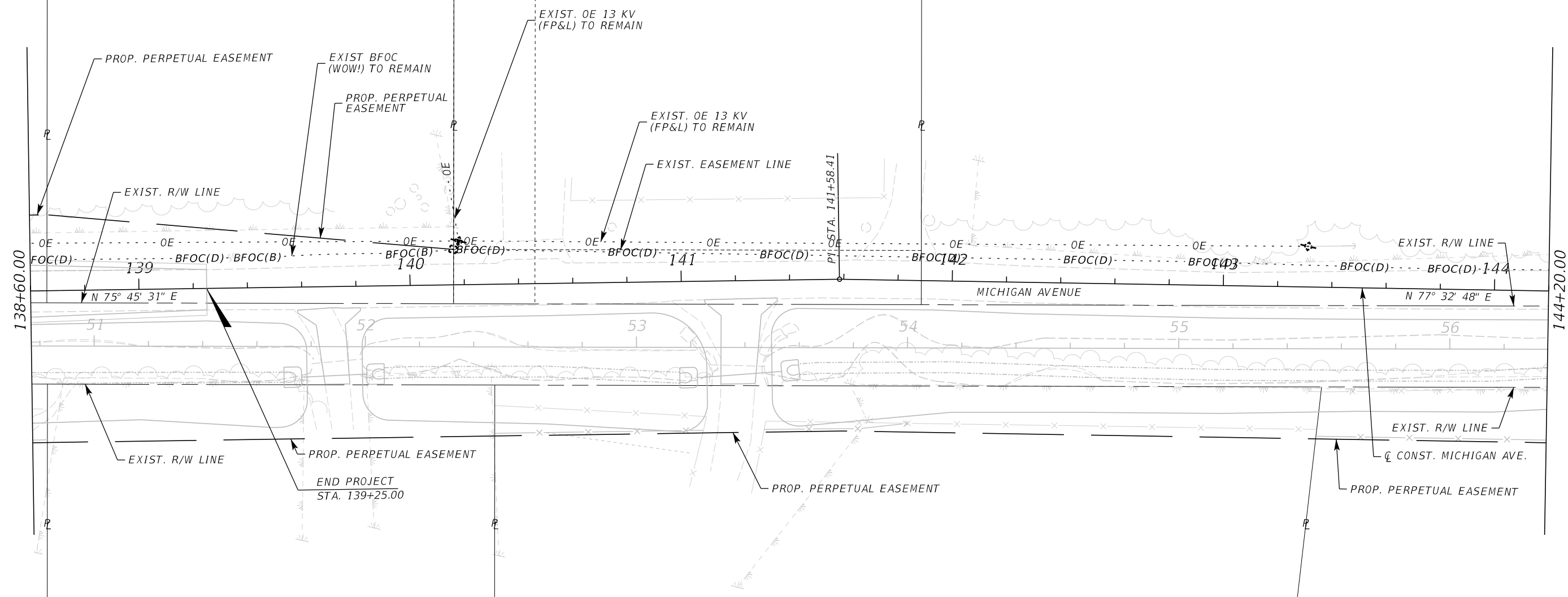
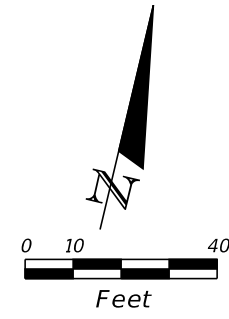
UTILITY ADJUSTMENTS
MICHIGAN AVE.

SHEET NO.
81

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

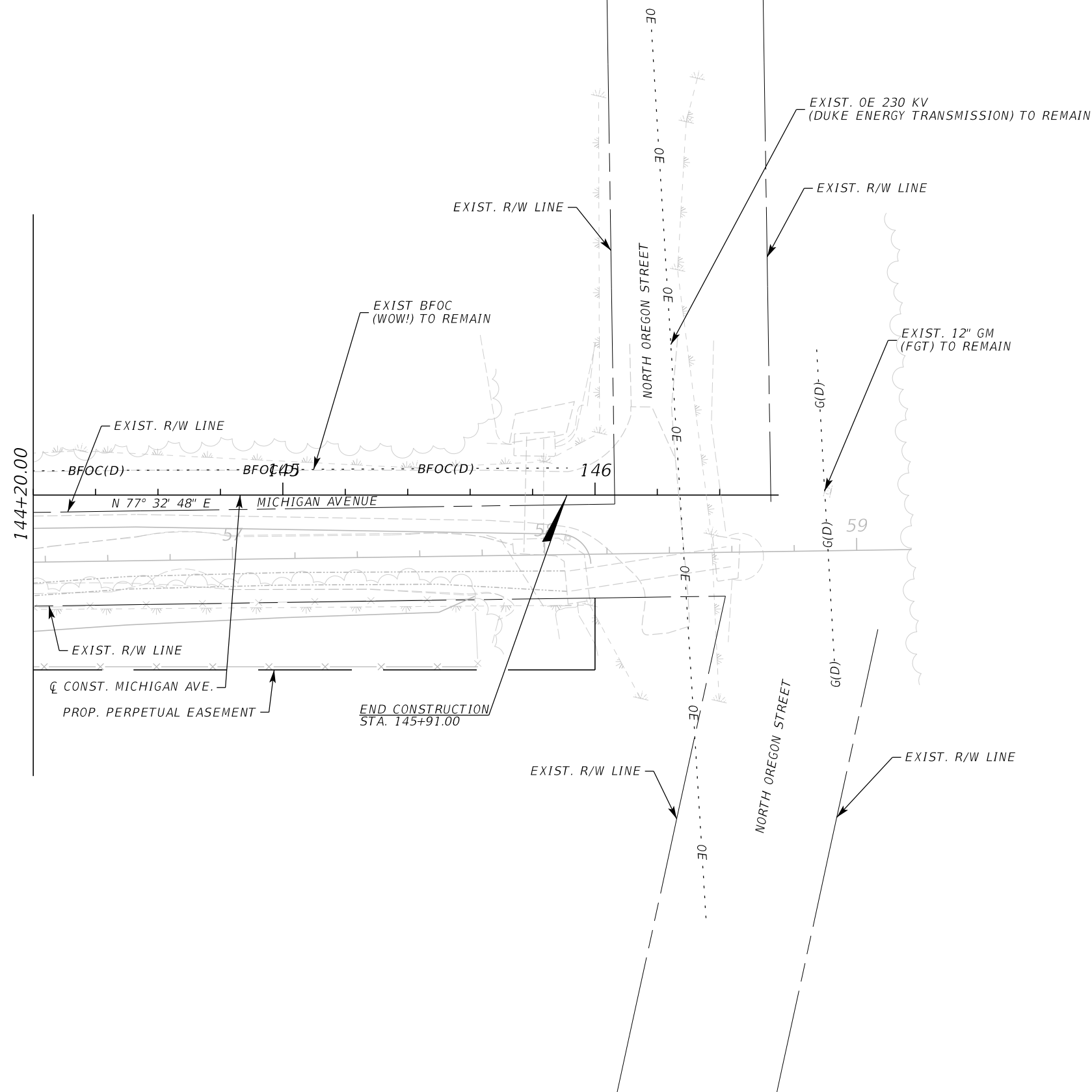
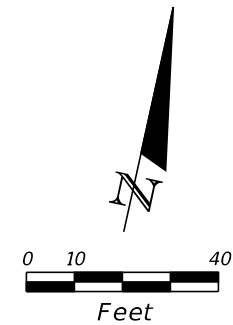


REVISIONS						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		UTILITY ADJUSTMENTS MICHIGAN AVE.	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		
							MICHIGAN AVE.	02407100		82



REVISIONS						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540	SEMINOLE COUNTY ENGINEERING DIVISION		UTILITY ADJUSTMENTS MICHIGAN AVE.	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		83
							MICHIGAN AVE.	02407100		

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



REVISIONS						 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		UTILITY ADJUSTMENTS MICHIGAN AVE.	SHEET NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		84
							MICHIGAN AVE.	02407100		

aalsaffar

3/7/2025

9:51:20 AM

F:\Projects\SEM-035-05\utils\PLANUW01.dgn

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

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES									
LOCATION		SIDE	SEDIMENT BARRIER		STAKED TURBIDITY BARRIER		DESIGN NOTES	CONSTRUCTION REMARKS	
STA. TO STA.			0104 10 3		0104 12				
			LF		LF				
			P	F	P	F			
100+00.57 to 100+34.59		RT	54.6						
100+30.00 to 101+10.00		LT	80.0						
100+34.41 to 100+51.64		RT	18.9						
100+45.88 to 100+49.28		RT	15.8						
100+54.97 to 100+55.28		LT	14.9						
101+01.44 to 101+02.45		RT	19.0						
101+69.54 to 102+70.15		RT	105.4						
102+70.15 to 104+50.98		RT	178.9						
104+62.67 to 105+69.59		RT	106.8						
105+81.59 to 106+97.80		RT	116.2						
106+64.43 to 107+01.09		LT	36.7						
107+08.19 to 107+54.87		RT	46.7						
107+13.09 to 107+30.65		LT	17.6						
107+30.65 to 107+75.23		LT	44.6						
107+68.73 to 109+35.71		RT	166.6						
107+87.20 to 108+59.95		LT	72.8						
108+72.14 to 108+78.95		LT	19.6						
108+78.95 to 109+10.92		LT	45.0						
109+24.67 to 111+85.41		LT	260.7						
109+44.16 to 111+44.95		RT	200.8						
111+61.38 to 112+26.53		RT	65.2						
111+97.41 to 113+65.02		LT	181.6						
112+36.02 to 113+75.72		RT	139.7						
114+05.16 to 116+04.50		LT	224.0						
114+34.52 to 119+24.51		RT	490.0						
116+22.50 to 116+87.25		LT	64.7						
140+29.99 to 141+12.70		RT	82.7						
141+25.22 to 141+67.62		RT	40.7						
102+60.00 to 102+80.00		LT			22.1				
102+63.17 to 102+75.68		RT			18.1				
113+64.94 to 113+75.06		LT			31.6				
113+73.42 to 113+92.36		RT			25.5				
113+75.04 to 114+05.04		LT			32.3				
119+24.51 to 120+43.79		RT			119.3				
120+43.83 to 126+95.72		RT			651.7				
126+95.13 to 130+20.99		LT			326.5				
127+19.93 to 127+39.39		RT			21.8				
127+56.42 to 129+35.53		RT			175.0				
129+45.23 to 130+12.50		RT			67.4				
130+32.94 to 139+25.00		LT			892.5				
130+34.49 to 131+66.83		RT			135.9				
131+78.08 to 133+31.95		RT			154.0				
133+43.31 to 135+58.50		RT			219.0				
135+70.50 to 138+27.51		RT			258.0				
138+36.18 to 139+70.39		RT			134.2				
139+78.36 to 140+30.16		RT			51.8				
141+67.62 to 146+00.00		RT			432.4				
145+74.50 to 145+88.72		RT			17.8				
145+93.72 to 145+97.92		RT			20.2				
SUB-TOTAL			2914.9		3807.1				
TOTAL			2915		3807				

REVISIONS				 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		SUMMARY OF QUANTITIES		SHEET NO.
DATE	DESCRIPTION		DATE		ROAD NO.	COUNTY CIP NO.			
				MICHIGAN AVE.	02407100				

3/7/2025 9:51:21 AM Default

F:\Projects\SEM-035-05\roadway\SUMORD01.dgn

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

[illegible]

aalsaffar	3/7/2025	9:51:21 AM	Default	F:\Projects\SEM-035-05\roadway\SUMORD01.dgn
-----------	----------	------------	---------	---

aalsaffar	3/7/2025	9:51:21 AM	Default	F:\Projects\SEM-035-05\roadway\SUMORD01.dgn
-----------	----------	------------	---------	---

SUMMARY OF MAILBOXES					
STATION	SIDE	QUANTITY (EA)		DESIGN NOTES	CONSTRUCTION REMARKS
		0110	7 1		
		P	F		
107+13.12	LT	1			
SUB-TOTAL :		1			
TOTAL :		1			

SUMMARY OF EARTHWORK					
PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0120-1	REGULAR EXCAVATION				
	MAINLINE (MICHIGAN AVE) STA. 100+39.00 TO 145+91.00	4423.00			
	TOTAL REGULAR EXCAVATION	4423.00			
0120-6	EMBANKMENT				
	MAINLINE (MICHIGAN AVE) STA. 100+39.00 TO 145+91.00	3999.00			
	TOTAL EMBANKMENT	3999.00			

REVISIONS				 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		
					MICHIGAN AVE.	02407100		SQ-3

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

SUMMARY OF SIDE DRAIN & MITERED END SECTIONS																					
LOCATION								REINFORCED CONCRETE PIPE (OTHER) - LF						MITERED END SECTION (OTHER) - EA						DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.			SIDE	BACK		AHEAD		19" x 30"		24" x 38"		29" x 45"		19" x 30"		24" x 38"		29" X 45"			
				OFFSET	FL	OFFSET	FL	P	F	P	F	P	F	P	F	P	F	P	F		
100+48.50	TO	100+88.50	RT	35.00	10.30	45.00	9.60	35.0						2						1:2	
100+58.00	TO	100+92.00	LT	-25.00	8.10	-22.00	7.90			28.0						2				1:2	
104+47.73	TO	104.77.27	RT	31.50	7.55	28.00	7.50	23.0						2						1:2	
105+62.73	TO	105+87.27	RT	25.00	7.45	25.00	7.40	18.0						2						1:2	
106+87.73	TO	107+15.27	RT	25.00	7.30	24.00	7.20	22.0						2						1:2	
107+48.23	TO	107+87.27	RT	26.50	6.40	26.00	6.30	33.0						2						1:2	
109+18.56	TO	109+50.44	RT	29.00	5.60	31.50	5.00			26.0						2				1:2	
111+38.89	TO	111+70.11	RT	32.50	4.90	32.50	4.85					24.0						2		1:2	
112+09.39	TO	112+41.61	RT	33.00	4.80	33.00	4.75					25.0						2		1:2	
113+97.56	TO	114+30.49	RT	33.00	4.65	33.00	4.50			27.0						2				1:2	
127+33.56	TO	127+63.44	RT	28.00	2.85	28.00	2.75			24.0						2				1:2	
129+25.56	TO	129+56.44	RT	25.00	2.72	25.00	2.70			24.0						2				1:2	
130+04.56	TO	130+42.44	RT	26.00	2.65	27.00	2.60			32.0						2				1:2	
131+62.56	TO	131+92.44	RT	30.00	2.50	30.00	2.45			23.0						2				1:2	
133+26.06	TO	133+56.44	RT	31.00	2.35	31.50	2.25					24.0						2		1:2	
135+49.39	TO	135+79.61	RT	32.50	2.15	32.50	2.10					23.0						2		1:2	
138+16.39	TO	138+44.61	RT	32.00	1.95	32.00	1.90					21.0						2		1:2	
139+57.39	TO	139+85.61	RT	33.20	1.80	32.50	1.75					22.0						2		1:2	
141+03.39	TO	141+38.61	RT	35.50	1.65	33.50	1.60					29.0						2		1:2	
SUB-TOTAL:								131.0		184.0		168.0		10		14		14			
TOTAL:								131		184		168		10		14		14			

REVISIONS				 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		SQ-5
					MICHIGAN AVE.	02407100		

3/7/2025 9:51:22 AM Default

F:\Projects\SEM-035-05\roadway\SUMORD01.dgn

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

SUMMARY OF DRAINAGE STRUCTURES															
QUANTITY	STRUCTURE NUMBER	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN (LF)			DITCH BOTTOM INLET (EA)	CROSS DRAIN MITERED END SECTION (EA)			ENDWALL (EA)		REMARKS
									C						
						18"	19"X30"	34"X53"	<10'	18"	19"X30"	34"X53"	DBL. 19"X30"	34"X53"	
P	CD-1	100+43.00	LT.	MES, Pipe	2		58				2				1:2
F															
P	CD-2	100+43.00	RT.	MES							2				1:2
F															
P	CD-3	102+70.00	LT.	MES, Pipe	1		29				1				1:2
F															
P	CD-4	127+11.63	RT.	MES							1				1:4
F															
P	CD-5	113+83.00	RT.	EW, Pipe	2		94						1		
F															
P	CD-6	113+83.00	LT.	MES							2				1:4
F															
P	CD-7	127+11.00	LT.	EW, Pipe	1			32						1	
F															
P	CD-8	127+10.50	RT.	MES								1			1:2
F															
P	S-100	107+50.00	LT.	Inlet, Pipe	1	97			1						
F															
P	S-101	108+50.00	LT.	Inlet, Pipe	1	188			1						
F															
P	S-102	110+40.00	LT.	Inlet, Pipe	1	238			1						
F															
P	S-103	112+80.00	LT.	Inlet, Pipe	1	79			1						NON-TRAVERSABLE SLOT, LT & RT
F															
P	S-104	113+62.97	LT.	MES						1					1:4
F															
Sheet Summary:					P Total	602	181	32	4	1	8	1	1	1	
					F Total										

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.

MICHIGAN AVE. 02407100

SUMMARY OF QUANTITIES

SQ-6

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

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS								
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	CONC SIDEWALK 6"		DESIGN NOTES	CONSTRUCTION REMARKS
					0522 2			
SY								
P					F			
106+89.24 to 107+13.25	RT	3029			33.2			
106+94.99 to 107+19.01	LT	4984			20.8			
107+51.10 to 107+81.10	RT	3048			45.0			
107+67.93 to 107+91.93	LT	4974			19.2			
108+54.01 to 108+78.01	LT	3069			19.2			
109+05.05 to 109+31.05	LT	3086			33.8			
109+17.31 to 109+41.30	RT	3096			36.7			
111+41.92 to 111+68.91	RT	3105			47.2			
111+79.50 to 112+03.50	LT	3122			43.9			
112+10.50 to 112+34.50	RT	3132			39.3			
113+33.79 to 113+57.79	LT	3153			37.7			
114+03.00 to 114+27.00	RT	3163			39.3			
115+98.50 to 116+28.50	LT	3172			41.2			
130+06.50 to 130+40.50	RT	3182			55.1			
130+15.77 to 130+39.80	LT	3192			33.9			
131+65.75 to 131+89.75	RT	3202			35.3			
133+30.75 to 133+54.75	RT	3211			37.0			
135+52.50 to 135+76.50	RT	3220			50.3			
138+19.13 to 138+43.13	RT	3230			38.0			
SUB-TOTAL :					706.1			
TOTAL :								

REVISIONS				 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		
					MICHIGAN AVE.	02407100		SQ-7

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

SUMMARY OF FENCING										
PAY ITEM NO.	DESCRIPTION	LOCATION	SIDE	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.			P	F	P	F		
0550 10	FENCING, TYPE B, 0.0- 5.0', RESET EXISTING	107+30.67 to 107+56.05	RT	LF	25.4		1954			
		107+85.15 to 108+95.85	RT		110.3					
		108+95.85 to 109+30.84	RT		35.0					
		109+46.87 to 110+60.74	RT		113.9					
		110+60.65 to 111+83.20	LT		122.5					
		110+60.74 to 111+42.83	RT		82.1					
		111+63.67 to 112+18.24	RT		54.6					
		112+17.26 to 113+31.71	LT		114.4					
		112+33.13 to 112+34.25	RT		6.1					
		112+33.13 to 112+34.42	RT		5.8					
		114+05.16 to 114+30.70	LT		25.5					
		114+30.70 to 114+30.70	LT		24.1					
		116+76.30 to 117+26.30	RT		50.0					
		118+17.05 to 118+34.75	RT		17.5					
		118+34.29 to 120+43.05	RT		208.5					
		120+43.05 to 120+49.19	RT		21.3					
		132+16.98 to 133+30.92	RT		114.0					
		133+45.67 to 133+70.65	RT		25.0					
		133+70.48 to 133+70.65	RT		5.3					
		133+70.48 to 135+56.76	RT		184.4					
		135+74.76 to 136+75.88	RT		102.1					
		137+00.37 to 138+23.27	RT		122.9					
		138+39.50 to 138+65.42	RT		25.9					
		140+30.44 to 141+07.40	RT		77.0					
		141+29.83 to 141+84.58	RT		53.2					
		143+35.03 to 145+62.51	RT		227.5					

SUMMARY OF PERFORMANCE TURF

LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 2		
					SY			
STA. TO STA.					P	F		
102+00.00 to 104+51.06	RT	14313			403.1		1:4 SLOPES	
102+00.00 to 104+51.10	RT	14350			116.9		LEVEL	
102+00.00 to 104+51.10	RT	14335			388.5		1:4 SLOPES	
104+43.14 to 104+56.49	RT	16974			17.3		0.06 SLOPE	
104+68.97 to 104+82.65	RT	16967			13.4		0.06 SLOPE	
104+73.00 to 105+66.50	RT	14363			142.3		1:4 SLOPES	
104+73.00 to 105+66.50	RT	14383			165.7		1:4 SLOPES	
104+75.26 to 105+64.62	RT	14403			41.6		LEVEL	
105+56.64 to 105+69.64	RT	16953			8.6		0.06 SLOPE	
105+81.64 to 105+91.52	RT	16960			7.1		0.06 SLOPE	
105+84.00 to 106+91.00	RT	14442			139.3		1:4 SLOPES	
105+84.00 to 106+91.00	RT	14422			115.7		1:4 SLOPES	
105+85.38 to 106+89.62	RT	14463			48.2		LEVEL	
106+50.56 to 106+95.18	RT	16930			18.0		0.06 SLOPE	
106+65.00 to 106+90.20	RT	9657			5.5		0.06 SLOPE	
106+65.00 to 106+96.00	LT	9668			6.7		0.05 SLOPE	
106+94.96 to 106+96.91	LT	7693			0.1		SR60	
107+07.17 to 107+30.00	RT	16917			12.1		0.06 SLOPE	
107+12.00 to 107+50.12	RT	14570			18.7		LEVEL	
107+12.00 to 107+52.00	RT	14523			49.0		1:4 SLOPES	
107+12.11 to 107+52.00	RT	14482			45.6		1:4 SLOPES	
107+12.17 to 107+52.29	RT	13957			8.6		0.06 SLOPE	
107+15.82 to 107+71.69	LT	7683			11.7		1:4 SLOPE	
107+17.90 to 107+69.15	LT	13968			11.0		0.05 SLOPE	
107+42.00 to 107+57.03	RT	16908			11.5		0.06 SLOPE	
107+75.02 to 107+93.51	RT	16899			18.8		0.06 SLOPE	
107+79.90 to 109+18.49	RT	13984			29.8		0.06 SLOPE	
107+84.00 to 109+21.00	RT	14615			184.9		1:4 SLOPES	
107+84.00 to 109+21.00	RT	14594			207.1		1:4 SLOPES	
107+85.38 to 109+20.69	RT	14637			62.5		LEVEL	
107+88.18 to 108+59.95	LT	7667			27.6		1:4 SLOPE	
107+90.74 to 108+55.19	LT	13977			13.9		0.05 SLOPE	
108+71.95 to 109+10.95	LT	7642			20.9		1:4 SLOPE	
108+76.79 to 109+06.23	LT	16879			6.2		0.05 SLOPE	
109+11.66 to 109+28.38	RT	16889			12.7		0.06 SLOPE	
109+24.95 to 111+85.41	LT	7623			443.9		1:4 SLOPE	
109+29.83 to 111+80.68	LT	14006			55.4		0.05 SLOPE	
109+35.23 to 109+56.00	RT	16880			22.7		0.06 SLOPE	
109+40.09 to 111+43.10	RT	13997			44.8		0.06 SLOPE	
109+46.00 to 111+34.50	RT	14778			266.8		1:4 SLOPES	
109+46.00 to 111+42.50	RT	14656			399.8		1:4 SLOPES	
109+48.31 to 111+42.12	RT	14805			88.3		LEVEL	
111+00.00 to 111+42.50	RT	14794			33.7		1:4 SLOPES	
111+32.50 to 111+47.84	RT	15230			15.4		0.06 SLOPE	
111+34.50 to 111+40.98	RT	14823			1.6		LEVEL	
111+62.84 to 111+78.00	RT	15136			14.9		0.06 SLOPE	
111+67.70 to 112+11.69	RT	14044			9.4		0.06 SLOPE	
SUB-TOTAL :					3787.3			
TOTAL :					15761			



Jessica D. Ballock, PE
PE No. 73909
Certificate of Authorization No. 555540

3452 Lake Lynda Drive, Suite 200
Orlando, Florida 32817
p 407.971.8850

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NO. COUNTY CIP NO.
MICHIGAN AVE. 02407100

SUMMARY OF QUANTITIES

SHEET NO.
SQ-9

SUMMARY OF PERFORMANCE TURF

LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 2		
					SY			
					P	F		
111+68.00 to 112+12.51	RT	14862			88.1		1:4 SLOPES	
111+68.00 to 112+12.51	RT	14879			59.2		1:4 SLOPES	
111+68.02 to 112+11.48	RT	14921			24.2		LEVEL	
111+97.41 to 112+39.00	LT	15491			63.6		1:4 SLOPE	
112+02.28 to 113+34.97	LT	14034			29.1		0.05 SLOPE	
112+06.23 to 112+48.20	RT	15010			71.7		0.06 SLOPE	
112+29.00 to 113+20.99	LT	15446			10.9		1:4 SLOPES	
112+29.00 to 113+21.00	LT	15428			124.5		1:4 SLOPES	
112+30.00 to 113+20.00	LT	15457			49.4		LEVEL	
112+33.28 to 114+04.19	RT	14093			37.6		0.06 SLOPE	
112+38.49 to 114+02.00	RT	14897			334.4		1:4 SLOPES	
112+38.51 to 114+02.00	RT	14948			171.4		1:4 SLOPES	
112+39.52 to 113+99.53	RT	14979			85.7		LEVEL	
112+48.53 to 113+40.94	RT	14940			35.3		0.06 SLOPE	
113+11.00 to 113+39.69	LT	15505			40.7		1:4 SLOPE	
113+51.69 to 113+69.50	LT	15538			8.2		1:4 SLOPE	
113+56.57 to 115+99.72	LT	14104			53.7		0.05 SLOPE	
113+68.00 to 114+20.00	LT	15588			61.8		LEVEL	
113+91.85 to 114+35.09	RT	15030			41.5		0.06 SLOPE	
113+92.00 to 114+08.93	RT	15054			15.5		0.06 SLOPE	
113+96.24 to 113+96.24	LT	15637			276.3		1:4 SLOPES	
114+18.80 to 114+35.39	RT	15044			13.3		0.06 SLOPE	
114+19.70 to 116+02.39	LT	15515			125.7		1:4 SLOPE	
114+25.18 to 120+40.00	RT	15302			1181.9		1:4 SLOPES	
114+25.25 to 120+40.00	RT	15330			923.2		1:4 SLOPES	
114+25.78 to 116+87.25	RT	14122			57.1		0.06 SLOPE	
114+28.52 to 120+40.00	RT	15365			284.2		LEVEL	
116+24.73 to 116+54.17	LT	7559			6.2		1:4 SLOPE	
116+27.29 to 116+87.25	LT	14087			13.1		0.05 SLOPE	
127+61.12 to 129+29.00	RT	15982			228.6		1:4 SLOPES	
127+61.52 to 129+27.53	RT	16564			75.9		LEVEL	
127+62.60 to 129+29.00	RT	16506			163.6		1:4 SLOPES	
129+23.43 to 129+34.83	RT	16596			13.9		0.06 SLOPE	
129+46.81 to 130+12.50	RT	16621			25.5		0.06 SLOPE	
129+50.00 to 130+16.99	LT	9829			14.7		0.05 SLOPE	
129+50.00 to 130+21.83	LT	7704			54.1		1:4 SLOPE	
129+51.50 to 130+07.50	RT	15948			67.6		1:4 SLOPES	
129+51.50 to 130+07.50	RT	15930			73.6		1:4 SLOPES	
129+51.75 to 130+07.70	RT	9817			12.1		0.06 SLOPE	
129+54.47 to 130+06.53	RT	16442			26.3		LEVEL	
130+33.72 to 139+13.23	LT	7744			1085.5		1:4 SLOPE	
130+34.50 to 130+47.79	RT	16637			11.3		0.06 SLOPE	
130+38.60 to 139+25.00	LT	14285			196.9		0.05 SLOPE	
130+39.29 to 131+66.95	RT	14123			27.3		0.06 SLOPE	
130+39.50 to 131+66.00	RT	15891			129.8		1:4 SLOPES	
130+39.50 to 131+66.00	RT	15912			204.0		1:4 SLOPES	
130+40.47 to 131+64.53	RT	16461			59.2		LEVEL	
131+44.66 to 131+71.75	RT	16647			13.6		0.06 SLOPE	
SUB-TOTAL :					6771.0			

REVISIONS				 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3/7/2025 9:51:24 AM Default 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		
					MICHIGAN AVE.	02407100		
								SQ-10

SUMMARY OF PERFORMANCE TURF								
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570 1 2			
					SY			
					P	F		
STA. TO STA.								
131+82.20 to 131+99.00	RT	16658			15.3		0.06 SLOPE	
131+88.56 to 133+31.95	RT	14144			31.5		0.06 SLOPE	
131+89.00 to 133+29.00	RT	15852			260.9		1:4 SLOPES	
131+89.01 to 133+29.00	RT	15872			139.9		1:4 SLOPES	
131+90.47 to 133+28.15	RT	16479			65.2		LEVEL	
133+19.00 to 133+36.74	RT	16666			17.7		0.06 SLOPE	
133+45.84 to 133+64.00	RT	16674			17.6		0.06 SLOPE	
133+53.55 to 135+53.69	RT	14154			44.1		0.06 SLOPE	
133+54.00 to 135+52.98	RT	16198			169.3		1:4 SLOPES	
133+54.00 to 135+53.00	RT	16175			410.2		1:4 SLOPES	
133+54.35 to 135+51.48	RT	16266			92.0		LEVEL	
135+43.00 to 135+58.50	RT	16684			21.3		0.06 SLOPE	
135+70.50 to 135+85.45	RT	16693			20.8		0.06 SLOPE	
135+75.29 to 138+20.33	RT	14226			53.5		0.06 SLOPE	
135+76.00 to 138+20.00	RT	15827			496.1		1:4 SLOPES	
135+76.06 to 136+83.31	RT	16716			106.5		1:4 SLOPES	
135+77.52 to 138+18.48	RT	16789			119.6		LEVEL	
136+84.57 to 138+20.00	RT	16703			193.3		1:4 SLOPES	
138+10.00 to 138+25.13	RT	16859			14.5		0.06 SLOPE	
138+37.13 to 139+25.00	RT	16868			25.2		0.06 SLOPE	
138+41.92 to 139+25.00	RT	14167			18.3		0.06 SLOPE	
138+42.00 to 139+61.50	RT	16002			196.7		1:4 SLOPES	
138+42.00 to 139+61.50	RT	16023			242.7		1:4 SLOPES	
138+42.52 to 139+59.48	RT	16067			55.7		LEVEL	
139+51.98 to 139+68.13	RT	16851			18.1		0.06 SLOPE	
139+75.93 to 139+91.98	RT	16842			19.5		0.06 SLOPE	
139+82.00 to 141+09.00	RT	15742			240.1		1:4 SLOPES	
139+82.00 to 141+09.00	RT	15761			268.4		1:4 SLOPES	
139+83.52 to 141+05.48	RT	16088			59.1		LEVEL	
140+88.79 to 141+14.56	RT	16833			31.1		0.06 SLOPE	
141+26.77 to 141+43.24	RT	16825			19.3		0.06 SLOPE	
141+32.98 to 145+67.91	RT	15685			602.6		1:4 SLOPES	
141+32.98 to 145+98.72	RT	15700			903.2		1:4 SLOPES	
141+36.33 to 145+98.72	RT	15722			213.0		LEVEL	
SUB-TOTAL :					5202.3			

REVISIONS				 Jessica D. Ballock, PE PE No. 73909 Certificate of Authorization No. 555540 3452 Lake Lynda Drive, Suite 200 Orlando, Florida 32817 p 407.971.8850	SEMINOLE COUNTY ENGINEERING DIVISION		SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY CIP NO.		
					MICHIGAN AVE.	02407100		
								SQ-11

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