

CONTRACT PLANS COMPONENTS

- ROADWAY PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- SIGNALIZATION PLANS
- LIGHTING PLANS
- STRUCTURES PLANS (TO BE INCLUDED NEXT SUBMITTAL)

INDEX OF ROADWAY PLANS

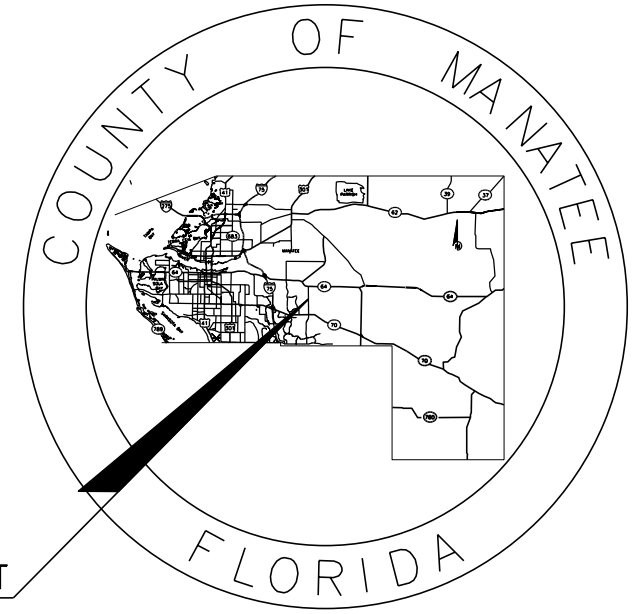
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**MANATEE COUNTY
PUBLIC WORKS DEPARTMENT**

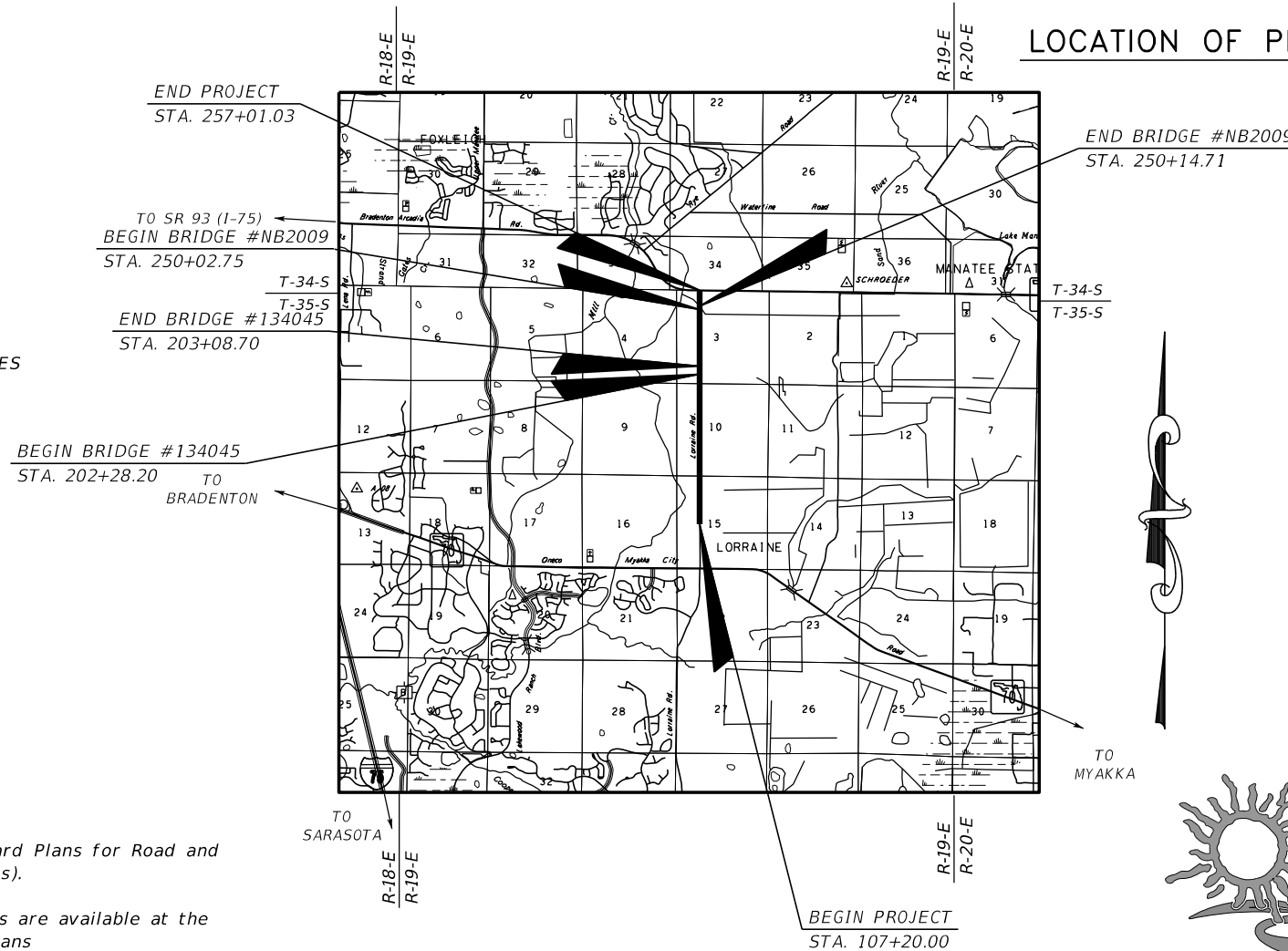
CONTRACT PLANS

MANATEE COUNTY
PROJECT NUMBER 6107660
LORRAINE ROAD

FROM SOUTH OF 59TH CIRCLE/AVE EAST TO SR64 ROUNDABOUT



LOCATION OF PROJECT



**DRAFT
60% SUBMITTAL
11/2022**

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2022-23 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

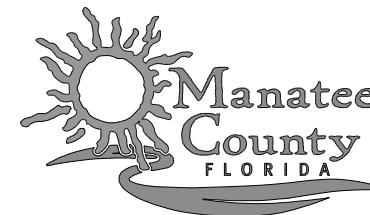
Standard Plans for Road Construction and associated IRs are available at the following website: <http://www.fdot.gov/design/standardplans>

APPLICABLE IRs:

Standard Plans for Bridge Construction are included in the Structures Plans Component

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, July 2022 Standard Specifications for Road and Bridge Construction at the following website: <http://www.fdot.gov/programmanagement/Implemented/SpecBooks>



**ROADWAY PLANS
ENGINEER OF RECORD:**

BRIAN L. ZIMMERMAN, P.E.
P.E. NO.: 78557
HDR ENGINEERING, INC.
4830 W. KENNEDY BLVD., SUITE 400
TAMPA, FL 33609-2548
VENDOR NO. 47-0680568

MANATEE CO. PROJECT MANAGER:

ANTHONY RUSSO, P.E.

FISCAL YEAR	SHEET NO.
22	1

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

NOTES TO REVIEWER:

GENERAL:

1. THE WIDENING OF LORRAINE ROAD CONVERTS THE EXISTING TWO-LANE, RURAL TYPICAL SECTION TO A FOUR-LANE, URBAN, DIVIDED TYPICAL SECTION WITHIN MANATEE COUNTY, FLORIDA THAT WILL INCREASE CAPACITY AND ACCOMMODATE THE GROWTH ALONG THE NORTH-SOUTH ROUTE. THE PROJECT INCLUDES A BOX CULVERT EXTENSION AND TWO BRIDGE REPLACEMENTS.
2. DUE TO THE PRESENCE OF PAVERS BEHIND THE FLORIDA-ROSEMARY DRIVE TIE DOWN, THE 25' MANATEE COUNTY MILLING & RESURFACING CANNOT BE MET.
3. DUE TO THE PRESENCE OF A GATE BEHIND THE 59TH CIRCLE E. TIE DOWN, THE 25' MANATEE COUNTY MILLING & RESURFACING CANNOT BE MET.
4. BRIDGE LIMITS FOR NB2009 HAVE NOT BEEN DETERMINED. THE LIMITS SHOWN IN THE PLANS ARE FOR THE EXISTING BRIDGE.
5. ELEMENTS TO BE ADDRESSED NEXT SUBMITTAL:
 - CROSS SECTION EARTHWORK QUANTITIES
 - POND PLAN SHEETS
 - STRUCTURES PLANS
 - STORMWATER INFORMATION

TYPICAL SECTIONS:

1. THERE ARE TWO LORRAINE ROAD TYPICAL SECTIONS:
 - A) TYPICAL SECTION #1: FROM SOUTH OF 59TH AVE. EAST TO SR 64
 - B) TYPICAL SECTION #2: BRIDGE TYPICAL TO DENOTE ROADWAY ELEMENTS
2. THIS PROJECT INCLUDES IMPROVEMENTS ON 59TH AVE. EAST, RANGELAND PARKWAY, AND 44TH AVE. EAST.

PAVEMENT DESIGN/SOIL SURVEY:



1. THE CURRENT PAVEMENT DESIGN REPORT IS INCLUDED IN THE DESIGN DOCUMENTATION BOOKLET. FLEXIBLE PAVEMENT WILL BE USED FOR THE MAINLINE AND SIDE STREETS.
2. A BASE CLEARANCE CONSTRAINT FROM ESHW ELEVATIONS WAS SET AT 1 FT ABOVE THE LOW EDGE OF PAVEMENT. A 50% REDUCED RESILIENT MODULUS WILL BE USED FOR THE ASPHALT PAVEMENT DESIGN.

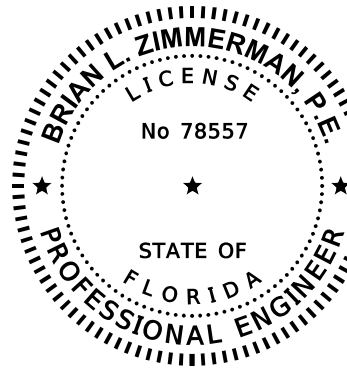
HORIZONTAL & VERTICAL ALIGNMENT:

1. THE ROADWAY PROFILE WAS DEVELOPED WITH THREE PRIMARY CONSTRAINTS, THE HYDRAULIC GRADE LINE, BASE CLEARANCE, AND THE 100-YEAR FLOODPLAIN ELEVATION.
2. CROSS SECTION TIE DOWNS OUTSIDE OF SURVEYED GROUND ARE BASED ON LIDAR DATA.
3. DUE TO RIGHT-OF-WAY CONSTRAINTS, MANATEE COUNTY URBAN DRIVEWAYS (INDEX 101.3) HAVE BEEN MODIFIED TO MINIMIZE RIGHT-OF-WAY IMPACTS WHILE CONSTRAINING WATER FROM THE ROADWAY DRAINING INTO ADJACENT PROPERTIES.

RIGHT-OF-WAY:

1. RIGHT-OF-WAY IMPACTS DUE TO FLOOD PLAIN COMPENSATION SITE AND STORM SEWER SYSTEMS FOR OFFSITE FLOWS ARE NOT FINALIZED.

				SCALE AS NOTED	 HDR HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN	NOTES TO REVIEWER	SHEET NO.	
				DESIGNED BY BLZ		PROJECT NO. 6107660		FL. LICENSE NO. 78557		1A	
				DRAWN BY JMA							
				CHECKED BY JLS							
No.	REVISIONS	DATE	BY								



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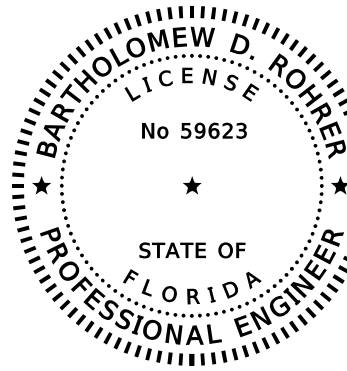
ON THE DATE ADJACENT TO THE SEAL

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HDR ENGINEERING, INC.
4830 W. KENNEDY BLVD., SUITE 400
TAMPA, FLORIDA 33609-2548
BRIAN L. ZIMMERMAN, P.E. NO. 78557

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

SHEET NO.	SHEET DESCRIPTION
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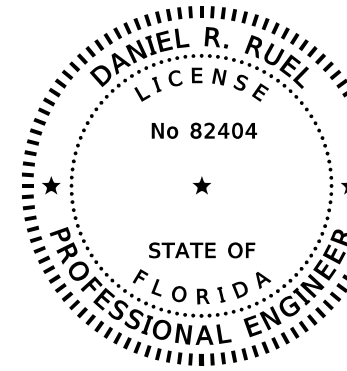
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HDR ENGINEERING, INC.
4830 W. KENNEDY BLVD., SUITE 400
TAMPA, FLORIDA 33609-2548
BARTHOLOMEW D. ROHRER, P.E. NO. 59623

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

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
5 - 10	DRAINAGE MAPS
11	EXISTING DRAINAGE INVENTORY



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ON THE DATE ADJACENT TO THE SEAL

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TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FLORIDA 33637
DANIEL R. RUEL, P.E. NO. 82404



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

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
71 - 77	POND SOIL SURVEY
78	ROADWAY SOIL SURVEY

				SCALE AS NOTED	<p>HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609</p>	DATE	<p>MANATEE COUNTY PUBLIC WORKS</p>	DESIGN ENGINEER	<p>BRIAN L. ZIMMERMAN</p> <p>FL. LICENSE NO. 78557</p>	<p>SIGNATURE SHEET</p>	SHEET NO.
				DESIGNED BY		11/2022					
				DRAWN BY		PROJECT NO.					
				CHECKED BY		6107660					
No.	REVISIONS	DATE	BY	JLS						2	



ROADWAY PLANS			
ITEM NO.	ITEM	UNIT	QUANTITY
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-10-3	SEDIMENT BARRIER	LF	30000
104-15	SOIL TRACKING PREVENTION DEVICE	EA	6
104-18	INLET PROTECTION SYSTEM	EA	26
107-1	LITTER REMOVAL	AC	308.47
107-2	MOWING	AC	236.94
110-1-1	CLEARING AND GRUBBING	AC	81.42
110-4-10	REMOVAL OF EXISTING CONCRETE	SY	7827
110-7-1	MAILBOX, F&I SINGLE	EA	43
120-1	REGULAR EXCAVATION	CY	8322.2
120-6	EMBANKMENT	CY	83222.2
160-4	TYPE B STABILIZATION	SY	142011
285-709	OPTIONAL BASE (BASE GROUP 09)	SY	123814
327-70-6	MILLING EXISTING ASPHALT PAVEMENT, 1 1/2" AVG DEPTH	SY	1503
334-1-13	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C	TN	27239.1
337-7-83	ASPHALT FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22	TN	10338.6
400-0-11	CONCRETE CLASS NS, GRAVITY WALL INDEX 400-011	CY	176.9
400-4-1	CONCRETE CLASS IV, CULVERTS	CY	28.1
415-1-1	REINFORCING STEEL- ROADWAY	LB	1
425-1-351	INLETS, CURB, TYPE P-5, <10'	EA	15
425-1-361	INLETS, CURB, TYPE P-6, <10'	EA	109
425-1-543	INLETS, DITCH BOTTOM, TYPE D, J BOT, <10'	EA	15
425-2-41	MANHOLES, P-7, <10'	EA	36
430-175-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"S/CD	LF	11636
430-175-124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"S/CD	LF	1939
430-175-130	PIPE CULVERT, OPT MATERIAL, ROUND, 30"S/CD	LF	1939
430-175-136	PIPE CULVERT, OPT MATERIAL, ROUND, 36"S/CD	LF	1358
430-175-142	PIPE CULVERT, OPT MATERIAL, ROUND, 42"S/CD	LF	970
430-175-148	PIPE CULVERT, OPT MATERIAL, ROUND, 48"S/CD	LF	776
430-175-154	PIPE CULVERT, OPT MATERIAL, ROUND, 54"S/CD	LF	776
520-1-7	CONCRETE CURB & GUTTER, TYPE E	LF	190
520-1-10	CONCRETE CURB & GUTTER, TYPE F	LF	30286
520-2-4	CONCRETE CURB, TYPE D	LF	67
520-3	VALLEY GUTTER - CONCRETE	LF	746
MC-R02	CONCRETE CURB & GUTTER, TYPE AB	LF	20068
520-70	TRAFFIC SEPARATOR, SPECIAL- VARIABLE WIDTH	SY	2521
521-8-4	CONCRETE TRAFFIC RAILING BARRIER, WITH JUNCTION SLAB, 42" VERTICAL FACE	LF	610
522-1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	20815
522-2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	3551
527-2	DETECTABLE WARNINGS	SF	1000
570-1-2	PERFORMANCE TURF (SOD)	SY	36667

SIGNING & PAVEMENT MARKING PLANS			
ITEM NO.	ITEM	UNIT	QUANTITY
700-1-11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	74
700-1-12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	6
700-1-50	SINGLE POST SIGN, RELOCATE	AS	9
700-1-60	SINGLE POST SIGN, REMOVE	AS	1
700-1-74	SINGLE POST SIGN, F&I CUSTOM, 31+ SF	AS	4
700-2-13	MULTI- POST SIGN, F&I GROUND MOUNT, 21-30 SF	AS	2
700-2-14	MULTI- POST SIGN, F&I GROUND MOUNT, 31-50 SF	AS	2
700-2-15	MULTI- POST SIGN, F&I GROUND MOUNT, 51-100 SF	AS	1
700-2-50	MULTI- POST SIGN, GROUND MOUNT, RELOCATE	AS	1
704-1-1	TUBULAR MARKER, DURABLE, 36" WHITE POST	EA	1
704-1-2	TUBULAR MARKER, DURABLE, 36" YELLOW POST	EA	49
705-10-1	OBJECT MARKER, TYPE 1	EA	23
706-1-3	RAISED PAVEMENT MARKER, TYPE B	EA	1545
710-11-190	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ISLAND NOSE	SF	15
710-11-290	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	168
710-90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS	1
711-11-102	THERMOPLASTIC, STANDARD, WHITE, SOLID, 8" FOR INTERCHANGE AND URBAN ISLAND	GM	0.132
711-11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	4650
711-11-124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	80
711-11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE	LF	981
711-11-141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM	0.522
711-11-144	THERMOPLASTIC, STANDARD, WHITE, 2-2 DOTTED EXTENSION LINE, 12" FOR ROUNDABOUT	GM	0.027
711-11-160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	2
711-11-170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	91
711-11-224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	168
711-11-241	THERMOPLASTIC, STANDARD, YELLOW, 2-4 DOTTED GUIDE LINE /6-10 DOTTED EXTENSION LINE, 6"	GM	0.513
711-14-125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	1808
711-14-160	THERMOPLASTIC, PREFORMED, WHITE, MESSAGE	EA	45
711-14-170	THERMOPLASTIC, PREFORMED, WHITE, ARROW	EA	45
711-16-101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	12.013
711-16-131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM	5.243
711-16-201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	5.721
713-103-101	PERMANENT TAPE, WHITE, SOLID, 6" FOR CONCRETE BRIDGES	GM	0.061
713-103-131	PERMANENT TAPE, WHITE, SKIP/DOTTED, 6" FOR CONCRETE SURFACES	GM	0.046
713-103-201	PERMANENT TAPE, YELLOW, SOLID, 6" FOR CONCRETE BRIDGES	GM	0.031
713-103-331	PERMANENT TAPE, BLACK, SKIP/DOTTED, 6" FOR CONCRETE SURFACES	GM	0.030
920-714-100	GREEN COLORED PAVEMENT MARKINGS, BIKE LANE	SF	4052

SCALE AS NOTED		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	SUMMARY OF PAY ITEMS (1)	SHEET NO.
DESIGNED BY			11/2022		FL. LICENSE NO.		
DRAWN BY			PROJECT NO.		78557		
CHECKED BY			6107660				
No.	REVISIONS	DATE	BY	JLS			3

SIGNALIZATION PLANS			
ITEM NO.	ITEM	UNIT	QUANTITY
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	13055
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	3260
630-2-15	CONDUIT, FURNISH & INSTALL, BRIDGE MOUNT	LF	165
632-7-1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	3
633-1-121	FIBER OPTIC CABLE, F&I, UNDERGROUND, 2-12 FIBERS	LF	100
633-1-124	FIBER OPTIC CABLE, F&I, UNDERGROUND, 97 - 144 FIBERS	LF	34080
633-1-420	FIBER OPTIC CABLE, RELOCATE, UNDERGROUND	LF	1215
633-1-620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF	22790
633-2-31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	444
633-3-11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	3
633-3-12	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE TRAY	EA	27
633-3-15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA	3
633-3-41	FIBER OPTIC CONNECTION HARDWARE, RELOCATE SPLICE ENCLOSURE	EA	2
633-3-51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA	1
633-3-52	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE TRAY	EA	12
633-3-55	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY PATCH PANEL, PRETERMINATED	EA	2
635-2-11	PULL & SPLICE BOX, F&I, 17" x 30" COVER SIZE	EA	38
635-2-12	PULL & SPLICE BOX, F&I, 24" x 36" COVER SIZE	EA	24
635-2-13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA	4
635-3-13	JUNCTION BOX, FURNISH & INSTALL, EMBEDDED	EA	4
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	3
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	600
639-4-6	EMERGENCY GENERATOR - PORTABLE, INSTALL HOUSING ONLY	EA	3
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	1
646-1-11	ALUMINUM SIGNALS POLE, FURNISH AND INSTALL, PEDESTAL	EA	24
646-1-60	ALUMINUM SIGNALS POLE, REMOVE	EA	16
649-21-3	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 40'	EA	1
649-21-6	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 50'	EA	1
649-21-10	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 60'	EA	2
650-1-14	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	11
650-1-16	TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS	3
650-1-19	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 5 SECTION CLUSTER, 1 WAY	AS	1
650-1-70	VEHICULAR TRAFFIC SIGNAL, RELOCATE- INCLUDES REMOVAL AND REINSTALLATION	AS	16
653-1-11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	24
660-3-11	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT	EA	1
660-3-12	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	6
660-3-42	VEHICLE DETECTION SYSTEM - MICROWAVE, RELOCATE, ABOVE GROUND EQUIPMENT	EA	8
660-3-52	VEHICLE DETECTION SYSTEM - MICROWAVE, ADJUST & MODIFY, ABOVE GROUND EQUIPMENT	EA	8
660-6-121	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA	1
660-6-122	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	1
665-1-11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	24
670-5-111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS	1
670-5-500	TRAFFIC CONTROLLER ASSEMBLY, RELOCATE CONTROLLER WITH CABINET	AS	2
682-1-113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA	1
684-1-1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	1
685-1-12	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, ONLINE/DOUBLE CONVERSION	EA	1
700-3-201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	3
700-3-501	SIGN PANEL, RELOCATE, UP TO 12 SF	EA	4
700-3-502	SIGN PANEL, RELOCATE, 12-20 SF	EA	4
700-5-22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	4
700-11-391	ELECTRONIC DISPLAY SIGN, FURNISH & INSTALL OVERHEAD MOUNT- AC POWERED, BLANK OUT SIGN, UP TO 12 SF	AS	4
700-11-500	ELECTRONIC DISPLAY SIGN, RELOCATE	AS	4

LIGHTING PLANS			
ITEM NO.	ITEM	UNIT	QUANTITY
630-2-11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	24000
630-2-12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	5600
630-2-15	CONDUIT, FURNISH & INSTALL, BRIDGE MOUNT	LF	350
635-2-11	PULL & SPLICE BOX, F&I, 13" x 24" COVER SIZE	EA	234
635-3-13	JUNCTION BOX, FURNISH & INSTALL, EMBEDDED	EA	8
639-1-122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	EA	2
639-2-1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	EA	400
641-2-12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	2
715-1-12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF	26549
715-1-13	LIGHTING CONDUCTORS, F&I, INSULATED, NO.4 TO NO. 2	LF	79646
715-7-11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	2
715-61-252	LIGHT POLE COMPLETE, F&I, STANDARD POLE STANDARD FOUNDATION, 35' MOUNTING HEIGHT, 15' ARM LENGTH	EA	105
715-65-266	LIGHT POLE COMPLETE, F&I, UTILITY CONFLICT POLE STANDARD FOUNDATION, 35' MOUNTING HEIGHT, 16' ARM LENGTH	EA	108
715-69-000	LIGHT POLE COMPLETE, REMOVE POLE AND FOUNDATION	EA	2
715-500-1	POLE CABLE DISTRIBUTION SYSTEM, CONVENTIONAL	EA	213

No.	REVISIONS	DATE	BY	SCALE AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	SUMMARY OF PAY ITEMS (2)	SHEET NO.
				DESIGNED BY		11/2022					
				DRAWN BY		PROJECT NO.					
				CHECKED BY		6107660					
				JLS							4



MATCHLINE STA. 126+00.00

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY JFG
 DRAWN BY JFG
 CHECKED BY BDR

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE 11/2022
 PROJECT NO. 6107660

Manatee County
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER BARTHOLOMEW D. ROHRER
 FL. LICENSE NO. 59623

DRAINAGE MAP (1)
EXISTING CONDITIONS

SHEET NO. 5

SECTION 16, TOWNSHIP 35S, RANGE 19E
SECTION 15, TOWNSHIP 35S, RANGE 19E



MATCHLINE STA. 126+00.00

MATCHLINE STA. 154+00.00

AERIAL FLIGHT DATE: 2021
VERTICAL ELEVATION DATUM NAVD 1988

SCALE AS NOTED DESIGNED BY JFG DRAWN BY JFG CHECKED BY BDR				HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022 PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BARTHOLOMEW D. ROHRER FL. LICENSE NO. 59623		DRAINAGE MAP (2) EXISTING CONDITIONS		SHEET NO. 6	
No.	REVISIONS	DATE	BY												

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SECTION 09, TOWNSHIP 35S, RANGE 19E

SECTION 10, TOWNSHIP 35S, RANGE 19E



MATCHLINE STA. 154+00.00

MATCHLINE STA. 182+00.00



AERIAL FLIGHT DATE: 2021
VERTICAL ELEVATION DATUM NAVD 1988

SCALE	AS NOTED		
DESIGNED BY	JFG		
DRAWN BY	JFG		
CHECKED BY	BDR		
No.	REVISIONS	DATE	BY

HDR
HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE
11/2022

PROJECT NO.
6107660

Manatee County Florida
MANATEE COUNTY
PUBLIC WORKS

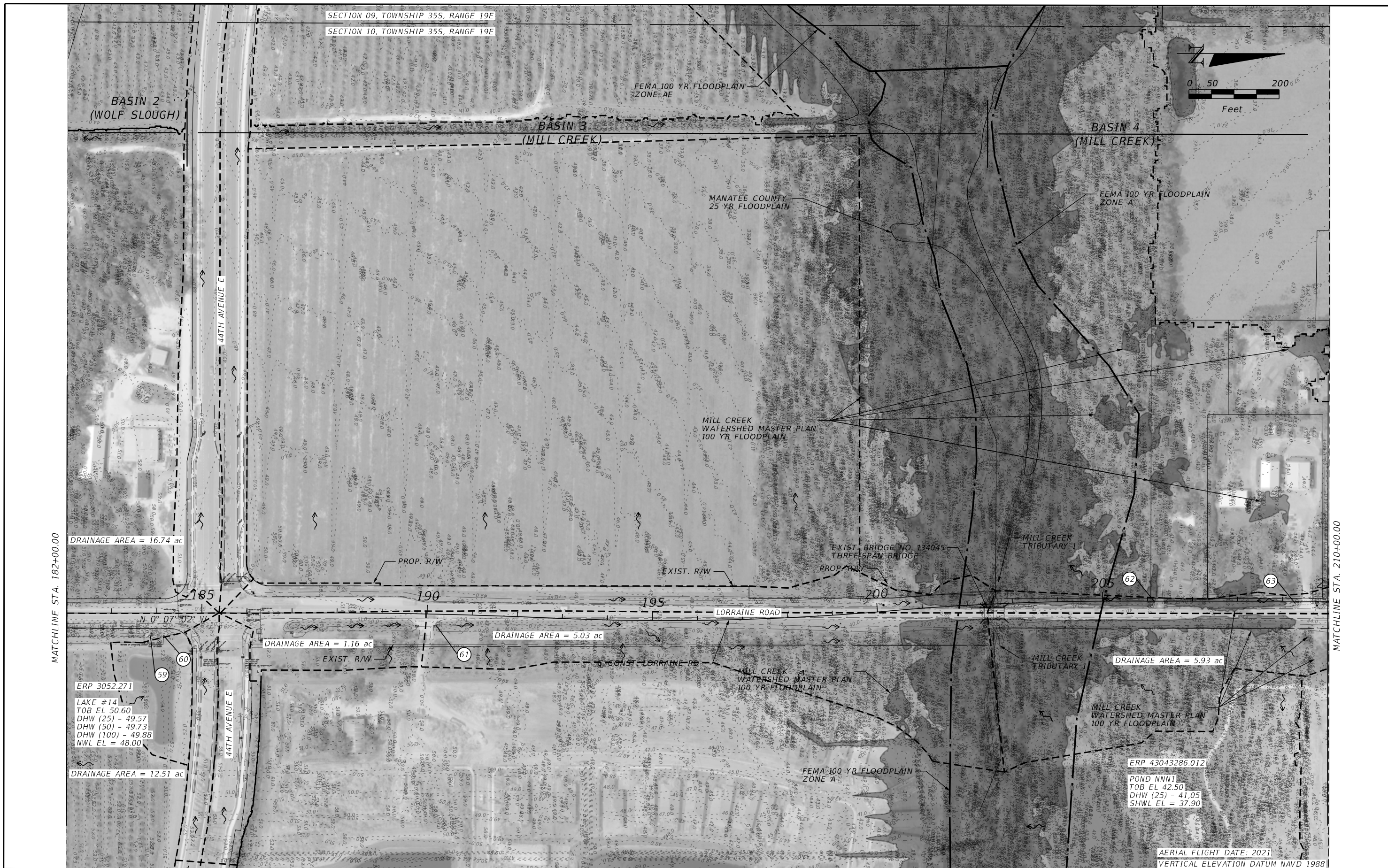
DESIGN ENGINEER
BARTHOLOMEW D. ROHRER

FL. LICENSE NO.
59623

**DRAINAGE MAP (3)
EXISTING CONDITIONS**

SHEET NO.
7

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No.	REVISIONS	DATE	BY

SCALE	AS NOTED
DESIGNED BY	JFG
DRAWN BY	JFG
CHECKED BY	BDR

HDR
HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6107660

Manatee County Florida
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER	BARTHOLOMEW D. ROHRER
FL. LICENSE NO.	59623

**DRAINAGE MAP (4)
EXISTING CONDITIONS**

SHEET NO.	8
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SECTION 04, TOWNSHIP 35S, RANGE 19E

SECTION 03, TOWNSHIP 35S, RANGE 19E

BASIN 4
(MILL CREEK)

BASIN 5
(MILL CREEK)

ERP 33170.027
LAKE 29
TOB EL 44.10
DHW (100) - 43.29
DHW (25) - 43.09
NWL EL = 42.20

ERP 33170.027
LAKE 30
TOB EL 45.40
DHW (100) - 44.48
DHW (25) - 44.34
NWL EL = 43.70

ERP 43043286.002
POND MM1
TOB EL 49.20
DHW (25) - 48.13
SHWL EL = 45.50

DRAINAGE AREA = 30.78 ac

DRAINAGE AREA = 53.40 ac

DRAINAGE AREA = 2.80 ac

DRAINAGE AREA = 5.82 ac

DRAINAGE AREA = 1.52 ac

DRAINAGE AREA = 6.13 ac

DRAINAGE AREA = 4.58 ac

DRAINAGE AREA = 8.91 ac

DRAINAGE AREA = 8.13 ac

AERIAL FLIGHT DATE: 2021
VERTICAL ELEVATION DATUM NAVD 1988



MATCHLINE STA. 210+00.00

MATCHLINE STA. 238+00.00

No.	REVISIONS	DATE	BY

SCALE AS NOTED
DESIGNED BY JFG
DRAWN BY JFG
CHECKED BY BDR

HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE 11/2022
PROJECT NO. 6107660



MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
BARTHLOMEW D. ROHRER
FL. LICENSE NO. 59623

**DRAINAGE MAP (5)
EXISTING CONDITIONS**

SHEET NO.
9

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23-.004, F.A.C.



SCALE AS NOTED		 HDR HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	DRAINAGE MAP (6) EXISTING CONDITIONS	SHEET NO.
DESIGNED BY JFG			11/2022		MANATEE COUNTY PUBLIC WORKS		BARTHOLOMEW D. ROHRER
DRAWN BY JFG		PROJECT NO. 6107660	FL. LICENSE NO. 59623				
CHECKED BY BDR							
No.	REVISIONS	DATE	BY				

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

1-9 NOT USED

- 10 CATCH BASIN
GRATE EL - NOT SURVEYED
INV - NOT SURVEYED
- 11 MITERED END SECTION
19"X30" RCP
INV 39.08 (S)
- 12 CATCH BASIN
GRATE EL = 40.29
STR BOTTOM = 34.44
- 13 MITERED END SECTION
19"X30" RCP
INV 39.37 (N)
- 14 MANHOLE
RIM EL = 41.94
STR BOTTOM = 32.04
- 15 MITERED END SECTION
19"X30" RCP
INV 39.01 (S)
- 16 MITERED END SECTION
18" RCP
INV 34.38 (N)
INV 34.19 (S)
- 17 MITERED END SECTION
18" RCP
INV 34.07 (N)
INV 33.77 (S)
- 18 CATCH BASIN
GRATE EL = 34.52
SLOT EL = 33.14
30" RCP INV 30.84 (N)
- 19 CATCH BASIN
RIM EL = 32.79
18" RCP INV 29.65 (S)
- 20 CATCH BASIN
RIM EL = 33.17
30" RCP INV 29.41 (N)
30" RCP INV 29.06 (S)
- 21 CONC. BOX CULVERT (2) (7.0'X7.0')
CBC INV 28.16 (W)
CBC INV 28.49 (E)
18" RCP INV 29.17 (S)
30" RCP INV 29.08 (S)
60"X38" RCP INV 28.93 (N)
18" RCP INV - NOT SURVEYED (N)
- 22 CATCH BASIN
RIM EL= 34.76
18" RCP INV 30.28 (N)
18" RCP INV 30.30 (S)
- 23 CURB INLET
RIM EL= 37.04
STR BOTTOM = 31.80
18" RCP INV 32.45 (N)
18" RCP INV 31.95 (E)
- 24 CURB INLET
RIM EL= 36.97
STR BOTTOM = 31.53
18" RCP INV 32.65 (S)
- 25 MANHOLE
RIM EL= 28.21
- 26 CATCH BASIN
RIM EL= 35.62
18" RCP INV 32.89 (E)
18" RCP INV 32.85



- 27 DBL MITERED END SECTION
60"X38" RCP INV 30.06 (S)
60"X38" RCP INV 30.11 (S)
- 28 HEADWALL
36" RCP
INV 32.84 (S)
INV 32.36 (N)
- 29 CATCH BASIN
RIM EL = 34.57
STR BOTTOM = 31.18
18" RCP INV 31.07 (E)
- 30 CURB INLET
RIM EL = 36.51
STR BOTTOM = 30.60
14"X23" RCP INV 30.71 (N)
14"X23" RCP INV 32.84 (S)
- 31 CATCH BASIN
RIM EL = 36.59
STR BOTTOM = 30.60
14"X23" RCP INV 33.52 (N)
14"X23" RCP INV 34.23 (S)
- 32 MITERED END SECTION
14"X23" RCP
INV 35.95 (S)
- 33 MITERED END SECTION
14"X23" RCP
INV 36.26 (S)
INV 36.08 (N)
- 34 ENDWALL
36" RCP
INV 35.61 (S)
INV 35.64 (N)
- 35 MITERED END SECTION
14"X23" RCP
INV 36.76 (S)
INV 36.39 (N)
- 36 MITERED END SECTION
14"X23" RCP
INV 41.10 (S)
INV 38.95 (N)
- 37 MITERED END SECTION
36" RCP
INV 38.17 (S)
INV 35.62 (N)
- 38 ENDWALL
36" RCP
INV 38.22 (S)
INV 38.47 (N)
- 39 MITERED END SECTION
36" RCP
INV 40.40 (S)
INV 39.29 (N)
- 40 ENDWALL
30" RCP
INV 41.50 (S)
INV 41.54 (N)
- 41 ENDWALL
24" RCP
INV 44.11 (S)
INV 44.36 (N)
- 42 MITERED END SECTION
18" RCP
INV 44.57 (E)
- 43 MITERED END SECTION
24" RCP
INV 45.30 (S)
INV 45.04 (N)

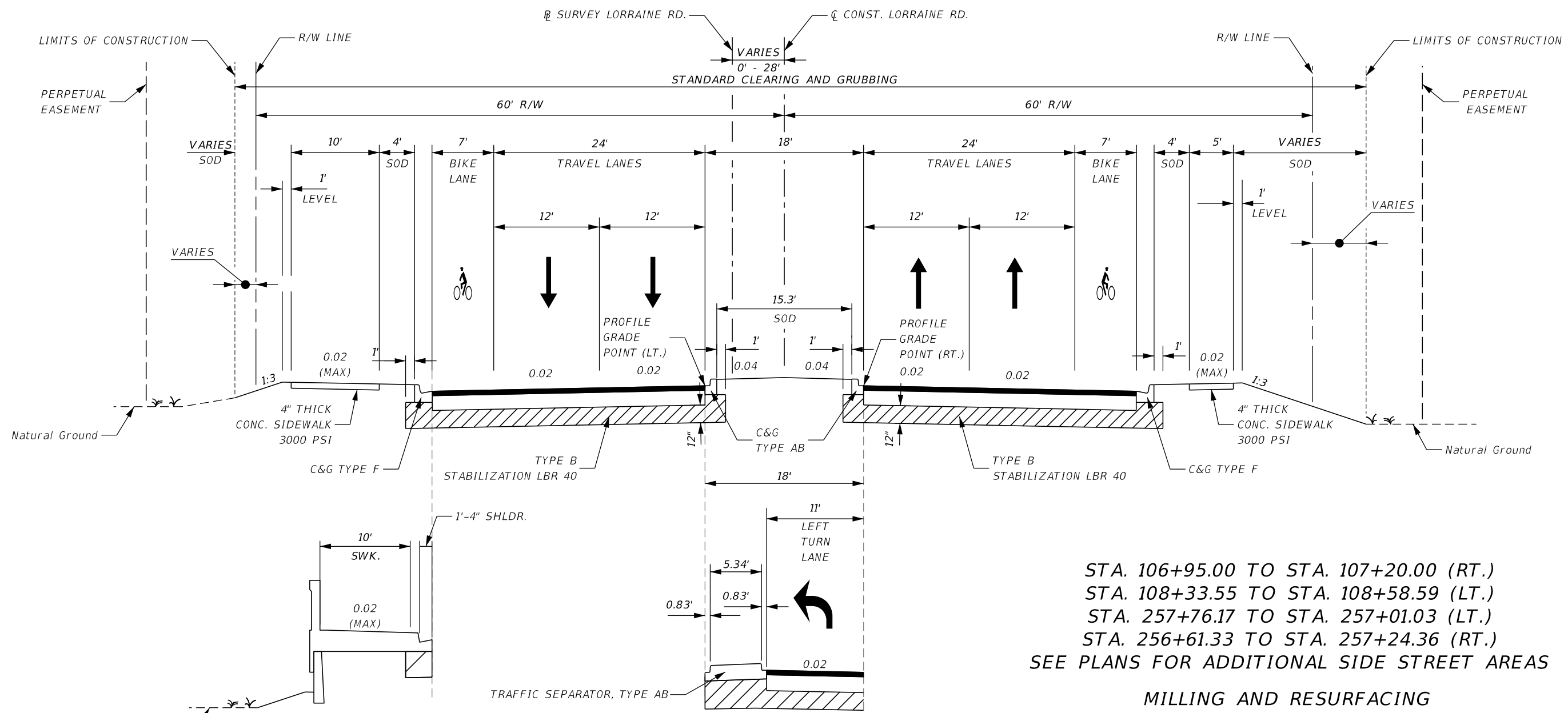
- 44 HEADWALL
24" RCP INV 44.84 (W)
24" CMP INV 43.75 (E)
- 45 MITERED END SECTION
19"X30" RCP
INV 46.72 (S)
INV 46.79 (N)
- 46 MITERED END SECTION
12"X18" RCP
INV 48.06 (S)
INV 47.94 (N)
- 47 MITERED END SECTION
12"X18" RCP
INV 48.43 (S)
INV 48.25 (N)
- 48 MITERED END SECTION
18" RCP
INV 47.25 (S)
INV 47.78 (N)
- 49 MITERED END SECTION
12"X18" RCP
INV 48.77 (S)
INV 48.28 (N)
- 50 MITERED END SECTION
18" RCP
INV 47.92 (S)
INV 48.01 (N)
- 51 POLLY PIPE
6 INCH
INV 49.35 (E)
- 52 MITERED END SECTION
12"X18" RCP
INV 49.32 (S)
INV 49.21 (N)
- 53 ENDWALL
18" RCP
INV 48.78 (S)
INV 49.37 (N)
- 54 MITERED END SECTION
12"X18" RCP
INV 49.24 (S)
INV 49.18 (N)
- 55 MITERED END SECTION
24" RCP
INV 49.00 (W)
CATCH BASIN
RIM EL = 49.13
INV - NOT SURVEYED
- 56 MITERED END SECTION
18" RCP
INV 49.29 (S)
INV 49.04 (N)
- 57 MITERED END SECTION
19"X30" RCP
INV 49.37 (S)
INV 49.28 (N)
- 58 MITERED END SECTION
19"X30" RCP
INV 48.44 (S)
INV 48.96 (N)
- 59 MITERED END SECTION
29"X45" RCP
INV 47.74 (N)
- 60 MANHOLE
RIM EL = 51.06
INV - NOT SURVEYED

- 61 MITERED END SECTION
34"X53" RCP
INV 46.57 (S)
INV 46.57 (N)
- 62 HEADWALL
18" RCP
INV 38.47 (N)
INV 37.80 (N)
- 63 MITERED END SECTION
18" RCP
INV 42.55 (S)
INV 42.45 (N)
- 64 MITERED END SECTION
18" RCP
INV 42.94 (S)
INV 42.87 (N)
- 65 MITERED END SECTION
14"X23" RCP
INV 44.28 (S)
INV 44.18 (N)
- 66 HEADWALL
18" RCP
INV 46.36 (S)
INV 46.02 (N)
- 67 MITERED END SECTION
18" RCP
INV 45.96 (S)
INV 45.89 (N)
- 68 MITERED END SECTION
18" RCP
INV 46.12 (S)
INV 46.06 (N)
- 69 SIDE DRAIN
14"X23" RCP
INV 45.20 (S)
INV 45.28 (N)
- 70 SIDE DRAIN
14"X23" RCP
INV 45.87 (N)
- 71 SIDE DRAIN
14"X23" RCP
INV 45.18 (S)
INV 45.14 (N)
- 72 CATCH BASIN
RIM EL = 47.64
STR BOTTOM = 45.64
CATCH BASIN
RIM EL = 49.13
INV - NOT SURVEYED
- 73 SIDE DRAIN
14"X23" RCP
INV 45.88 (N)
- 74 SIDE DRAIN
12"X18" RCP
INV 44.92 (S)
INV 44.91 (N)
- 75 SIDE DRAIN
14"X23" RCP
INV 45.03 (S)
INV 45.04 (N)
- 76 MITERED END SECTION
14"X23" RCP
INV 45.38 (S)
INV 47.28 (N)
- 77 MITERED END SECTION
24" RCP
INV 47.73 (E)

- 78 SIDE DRAIN
15" RCP
INV 45.36 (S)
INV 45.34 (N)
- 79 SIDE DRAIN
23"X14" RCP
INV 44.38 (S)
INV 44.41 (N)
- 80 SIDE DRAIN
23"X14" RCP
INV 45.96 (S)
INV 45.76 (N)
- 81 MITERED END SECTION
23"X14" RCP
INV 46.33 (N)
- 82 ENDWALL
15" RCP
INV 44.92 (S)
INV 44.91 (N)
- 83 CATCH BASIN
RIM EL = 46.09
STR BOTTOM = 43.90
- 84 MITERED END SECTION
24"X14" RCP
INV 43.87 (S)
- 85 MITERED END SECTION
24" RCP
INV 44.67 (N)
- 86 MITERED END SECTION
15" RCP
INV 43.28 (W)
- 87 MITERED END SECTION
24" RCP
INV 43.53 (S)
- 88 MITERED END SECTION
12" RCP
INV 42.78 (S)
INV 42.88 (N)
- 89 MITERED END SECTION
19"X30" RCP
INV 42.64 (S)
14"X23" RCP
INV 41.01 (N)
- 90 MITERED END SECTION
24" RCP
INV 40.25 (S)
INV 40.20 (N)
- 91 MITERED END SECTION
24" RCP
INV 37.29 (S)
INV 37.32 (N)
- 92 HEADWALL
18"X24" CMP
INV 34.35 (N)
- 93 MITERED END SECTION
30" RCP
INV 36.47 (S)
INV 36.66 (N)
- 94 HEADWALL
18" RCP
INV 33.71 (S)
INV 33.81 (N)

- 95 MITERED END SECTION
24" RCP
INV 35.86 (S)
INV 35.83 (N)
- 96 MITERED END SECTION
18" CMP
INV 34.40 (E)
INV 33.88 (W)
- 97 HEADWALL
19"X30" RCP
INV 29.22 (N)

					SCALE AS NOTED	 HDR HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BARTHOLOMEW D. ROHRER	EXISTING DRAINAGE INVENTORY	SHEET NO.			
No.	REVISIONS	DATE	BY	CHECKED BY	BDR		PROJECT NO. 6107660		FL. LICENSE NO. 59623		11			



STA. 106+95.00 TO STA. 107+20.00 (RT.)
 STA. 108+33.55 TO STA. 108+58.59 (LT.)
 STA. 257+76.17 TO STA. 257+01.03 (LT.)
 STA. 256+61.33 TO STA. 257+24.36 (RT.)
 SEE PLANS FOR ADDITIONAL SIDE STREET AREAS

MILLING AND RESURFACING

MILL EXISTING ASPHALT PAVEMENT (1-1/2" DEPTH)
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG76-22)

SEE CROSS SECTIONS AND PLANS
TYPICAL SECTION
LORRAINE RD.

STA. 107+20.00 TO STA. 202+28.20 (RT.)
 STA. 108+33.55 TO STA. 202+28.20 (LT.)
 STA. 203+08.70 TO STA. 250+02.75
 STA. 250+14.71 TO STA. 257+01.03 (RT.)
 STA. 250+14.71 TO STA. 256+76.17 (LT.)
NEW CONSTRUCTION

OPTIONAL BASE GROUP 9
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (4")
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG76-22)

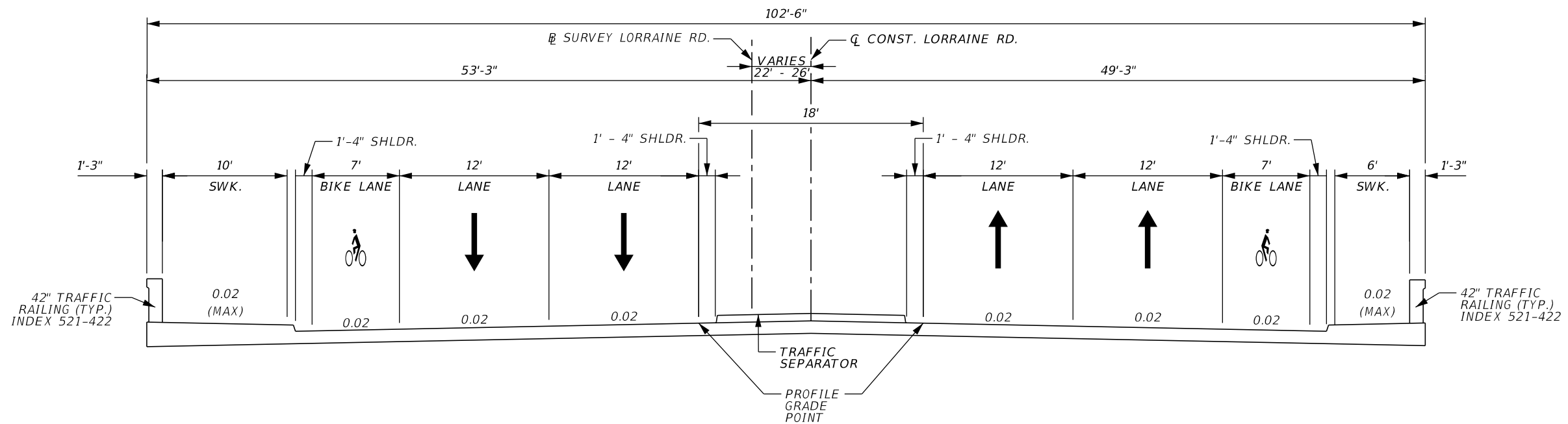
- NOTES:
- MATCH ALL TURN LANE CROSS SLOPES TO THE ADJACENT THROUGH LANE, EXCEPT WHERE NOTED IN THE PLANS.

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 13,100
 ESTIMATED OPENING YEAR = 2025 AADT = 15,600
 ESTIMATED DESIGN YEAR = 2045 AADT = 32,100
 K = 9.5% D = 56.1% T = 7.0% (24 HOUR)
 DESIGN HOUR T = 3.50%
 DESIGN SPEED = 40 MPH

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS				DATE 11/2022 PROJECT NO. 6107660		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		SHEET NO. 12	
No. REVISIONS DATE BY				HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		MANATEE COUNTY PUBLIC WORKS		TYPICAL SECTION (1)	

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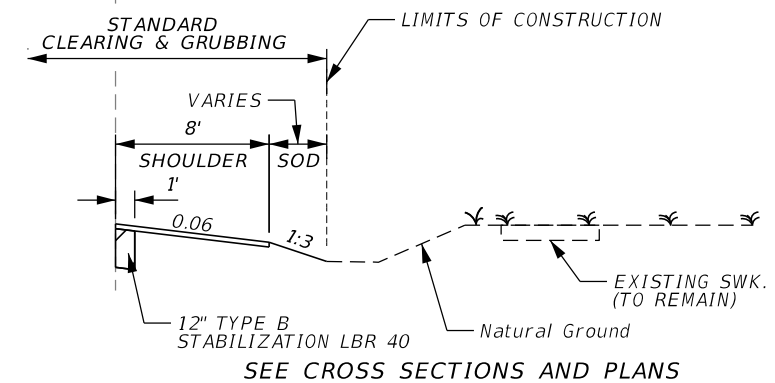
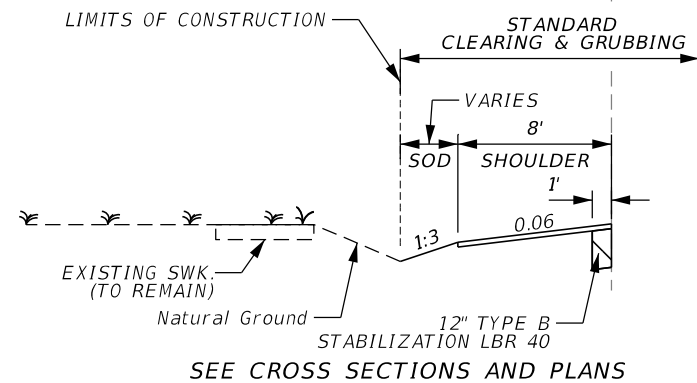
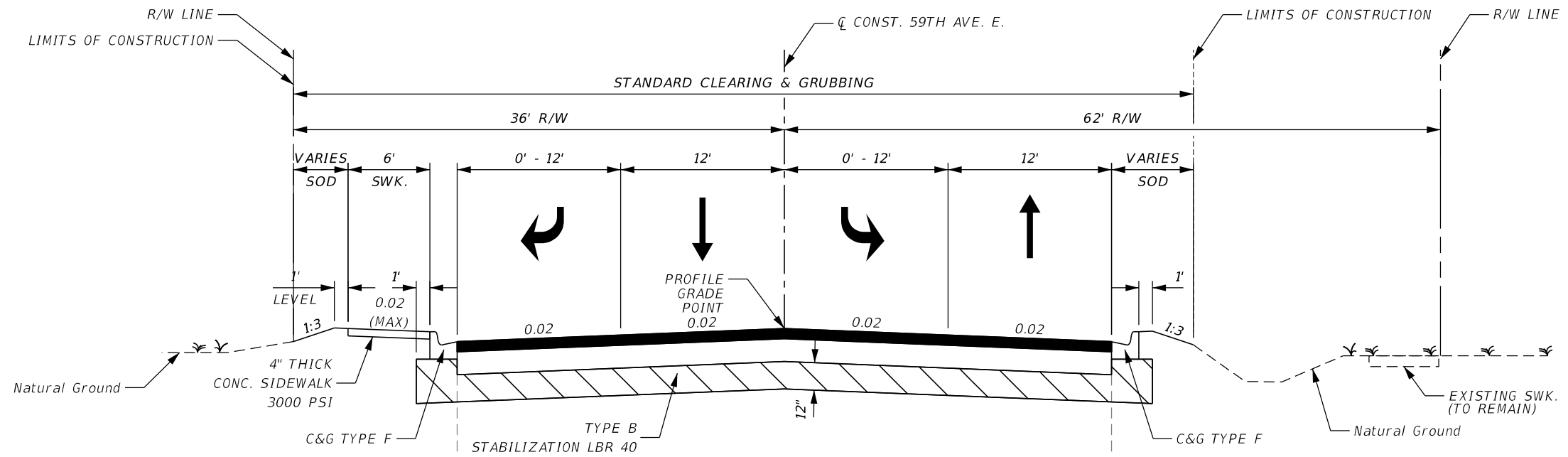
**TYPICAL SECTION
LORRAINE RD.**
 STA. 202+28.20 TO STA. 203+08.70 (BRIDGE #134045)
 STA. 250+00.51 TO STA. 250+16.51 (BRIDGE NB2009)

APPROACH SLABS
 STA. 201+89.20 TO STA. 202+28.20
 STA. 203+08.70 TO STA. 203+38.70

TRAFFIC DATA

CURRENT YEAR = 2022 AADT = 13,100
 ESTIMATED OPENING YEAR = 2025 AADT = 15,600
 ESTIMATED DESIGN YEAR = 2045 AADT = 32,100
 K = 9.5% D = 56.1% T = 7.0% (24 HOUR)
 DESIGN HOUR T = 3.50%
 DESIGN SPEED = 40 MPH

SCALE AS NOTED				DATE 11/2022		DESIGN ENGINEER BRIAN L. ZIMMERMAN		SHEET NO. 13
DESIGNED BY BLZ				PROJECT NO. 6107660		FL. LICENSE NO. 78557		
DRAWN BY JMA				MANATEE COUNTY PUBLIC WORKS		TYPICAL SECTION (2)		
CHECKED BY JLS				HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609				
No.	REVISIONS	DATE	BY					



**TYPICAL SECTION
59TH CIRCLE E. / 59TH AVE E.
STA. 28+75.82 TO STA. 37+30.32
NEW CONSTRUCTION**

OPTIONAL BASE GROUP 9
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (4")
FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG76-22)

**STA. 37+30.32 TO STA. 37+55.32
MILLING AND RESURFACING**

MILL EXISTING ASPHALT PAVEMENT (1-1/2" DEPTH)
FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG76-22)

**RANGELAND PARKWAY
STA. 228+73.00 TO STA. 231+31.05**

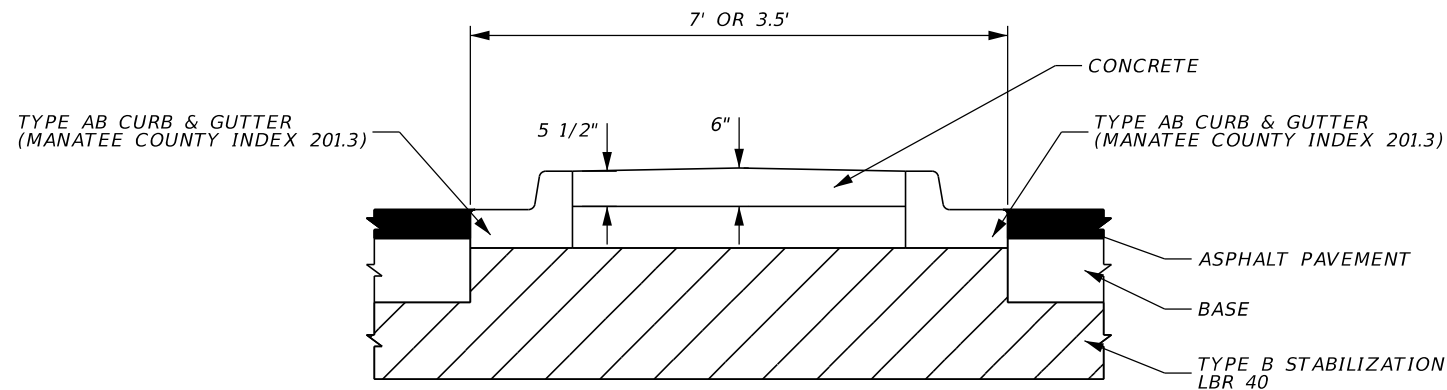
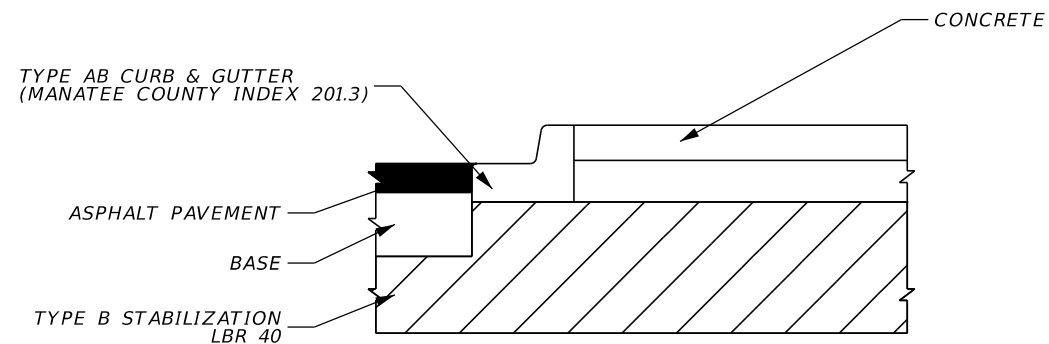
**44TH AVENUE
STA. 127+50.00 TO STA. 131+40.00 (LT.)
STA. 128+10.00 TO STA. 131+40.00 (RT.)
NEW CONSTRUCTION**

OPTIONAL BASE GROUP 9
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (4")
FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG76-22)

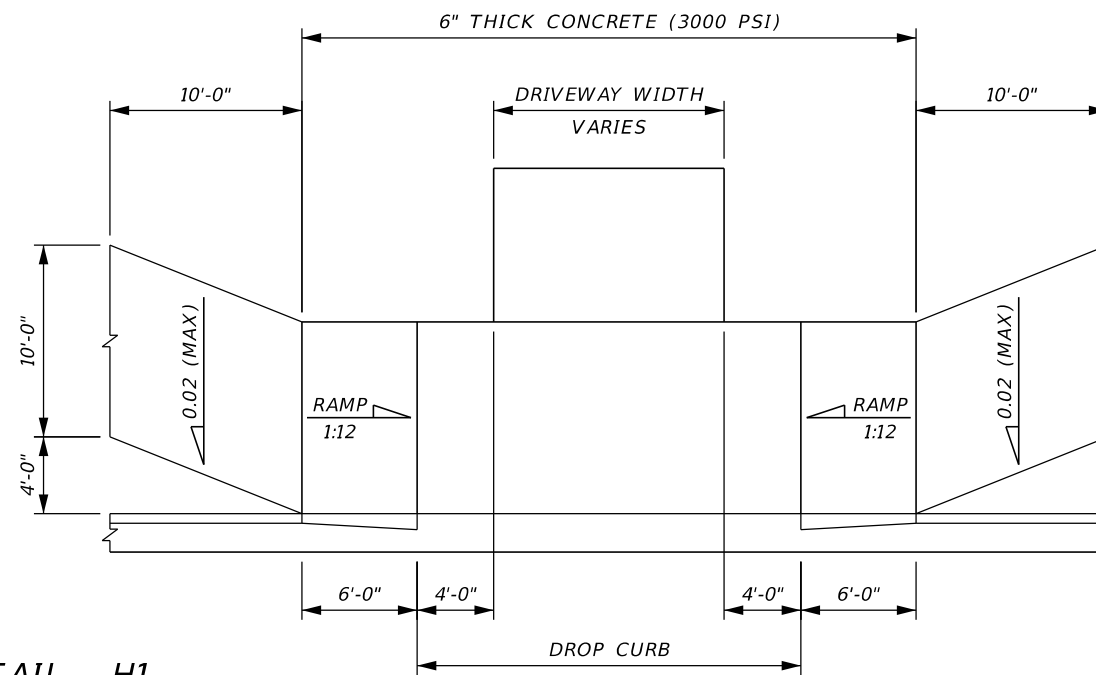
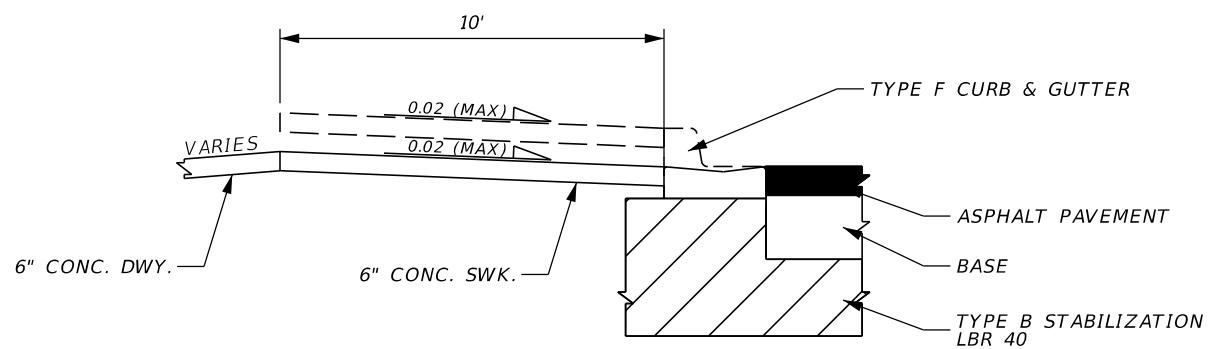
TRAFFIC DATA

CURRENT YEAR = 2021 AADT =
ESTIMATED OPENING YEAR = 2025 AADT =
ESTIMATED DESIGN YEAR = 2045 AADT = 4,700
K = % D = % T = % (24 HOUR)
DESIGN HOUR T = %
DESIGN SPEED = 35 MPH

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS				 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022 PROJECT NO. 6107660		 MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		TYPICAL SECTION (3)		SHEET NO. 14	
No.	REVISIONS	DATE	BY												



TRAFFIC SEPARATOR, TYPE AB



DRIVEWAY DETAIL - H1

No.	REVISIONS	DATE	BY

SCALE AS NOTED

DESIGNED BY BLZ

DRAWN BY JMA

CHECKED BY JLS

HDR

HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE 11/2022

PROJECT NO. 6107660

Manatee County FLORIDA

MANATEE COUNTY PUBLIC WORKS

DESIGN ENGINEER BRIAN L. ZIMMERMAN

FL. LICENSE NO. 78557



TYPICAL SECTION DETAIL

SHEET NO. 15

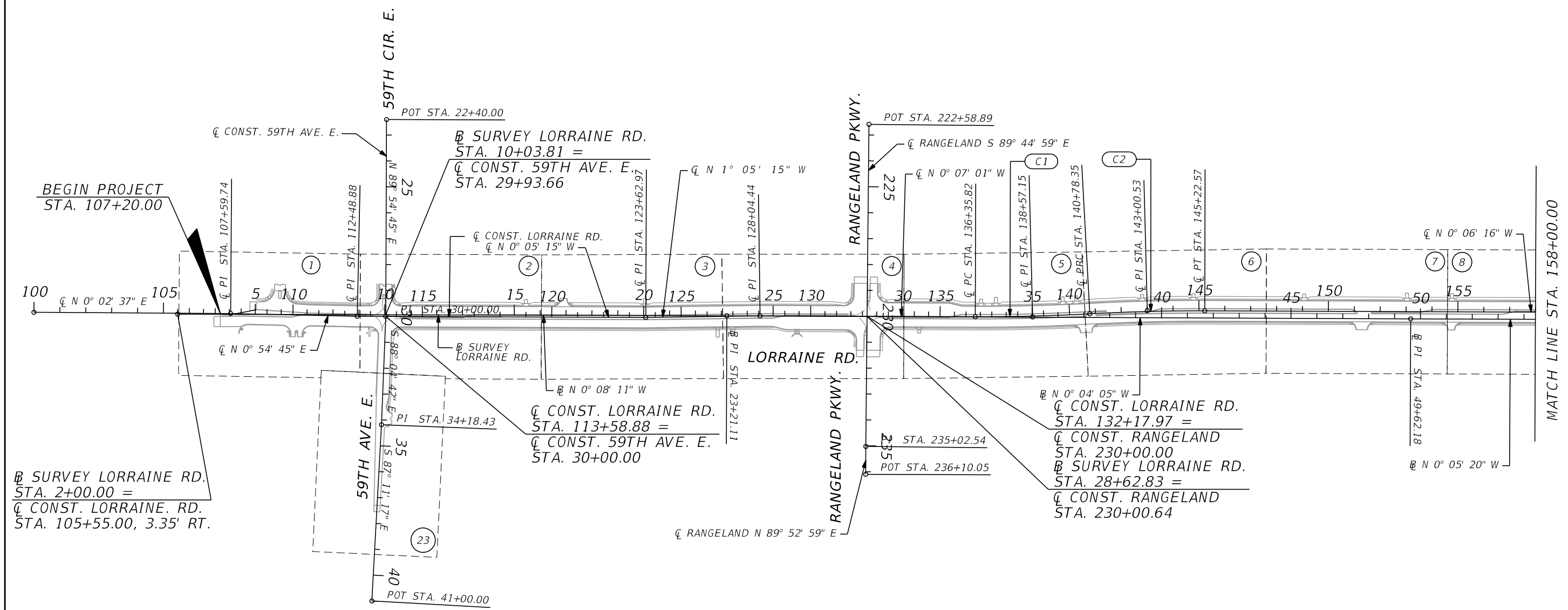
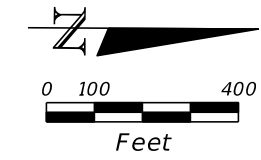
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CURVE AND COORDINATE DATA																					
ALIGNMENT NAME	CURVE / PI NAME	PC			PI			PT			CC		DELTA	D	T	L	R	BEARING		e	DESIGN SPEED (MPH)
		STATION	NORTHING	EASTING	STATION	NORTHING	EASTING	STATION	NORTHING	EASTING	NORTHING	EASTING						BACK	AHEAD		
@ SURVEY LORRAINE ROAD	178				2+00.00	1,126,921.268	527,929.793												N 0° 08' 11" W		40
	179				23+21.11	1,129,042.372	527,924.742											N 0° 08' 11" W	N 0° 04' 05" W		40
	180				49+62.18	1,131,683.439	527,921.602											N 0° 04' 05" W	N 0° 05' 20" W		40
	181				126+01.19	1,139,622.436	527,909.293											N 0° 05' 20" W	N 0° 0' 10" E		40
	182				155+72.83	1,142,294.078	527,909.420											N 0° 0' 10" E			40
@ CONST. LORRAINE RD.	163				100+00.00	1,126,366.267	527,926.017												N 0° 02' 37" E		40
	164				107+59.74	1,127,126.004	527,926.596											N 0° 02' 37" E	N 0° 54' 45" E		40
	165				112+48.88	1,127,615.085	527,934.385											N 0° 54' 45" E	N 0° 05' 15" W		40
	166				123+62.97	1,128,729.175	527,932.683											N 0° 05' 15" E	N 1° 05' 15" W		40
	167				128+04.44	1,129,170.563	527,924.304											N 1° 05' 15" W	N 0° 07' 01" W		40
	C1	136+35.82	1,130,001.938	527,922.607	138+57.15	1,130,223.269	527,922.155	140+78.35	1,130,444.202	527,908.889	1,129,986.340	520,283.185	3° 19' 09" (LT)	0° 45' 00"	221.331	442.539	7,639.437	N 0° 07' 01" W	N 3° 26' 10" W	NC	40
	C2	140+78.35	1,130,444.202	527,908.889	143+00.53	1,130,665.975	527,895.574	145+22.57	1,130,888.147	527,895.169	1,130,902.065	535,534.593	3° 19' 54" (RT)	0° 45' 00"	222.172	444.219	7,639.437	N 3° 26' 10" W	N 0° 06' 16" W	NC	40
	C3	172+39.88	1,133,605.446	527,890.218	174+58.36	1,133,823.924	527,889.820	176+76.71	1,134,042.068	527,901.909	1,133,619.364	535,529.643	3° 16' 35" (RT)	0° 45' 00"	218.478	436.838	7,639.437	N 0° 06' 16" W	N 3° 10' 19" E	NC	40
	C4	176+76.71	1,134,042.068	527,901.909	178+96.05	1,134,261.064	527,914.045	181+15.26	1,134,480.397	527,913.596	1,134,464.771	520,274.175	3° 17' 21" (LT)	0° 45' 00"	219.333	438.545	7,639.437	N 3° 10' 19" E	N 0° 07' 02" W	NC	40
	C5	187+57.55	1,135,122.685	527,912.283	190+16.30	1,135,381.430	527,911.753	192+74.95	1,135,936.935	527,922.904	1,135,146.124	539,371.415	2° 35' 13" (RT)	0° 30' 00"	258.745	517.403	11,459.156	N 0° 07' 02" W	N 2° 28' 11" E	NC	40
	C6	192+74.95	1,135,639.935	527,922.904	196+51.89	1,136,016.524	527,939.147	200+27.75	1,136,391.995	527,905.914	1,135,886.841	522,198.646	3° 31' 41" (LT)	1° 00' 00"	376.939	752.793	5,729.580	N 2° 28' 11" E	N 5° 03' 29" W	NC	40
	C7	200+27.75	1,136,391.995	527,905.914	202+78.74	1,136,642.013	527,883.785	205+29.42	1,136,893.009	527,883.603	1,136,897.148	533,613.182	5° 01' 00" (RT)	1° 00' 00"	250.996	501.671	5,729.580	N 5° 03' 29" W	N 0° 02' 29" W	NC	40
	C8	243+88.44	1,140,752.027	527,880.815	246+20.85	1,140,984.437	527,880.647	248+53.11	1,141,216.427	527,894.608	1,140,757.546	535,520.250	3° 29' 06" (RT)	0° 45' 00"	232.410	464.676	7,639.437	N 0° 02' 29" W	N 3° 26' 37" E	NC	40
	C9	248+53.11	1,141,216.427	527,894.608	250+84.44	1,141,447.340	527,908.503	253+15.63	1,141,678.671	527,908.401	1,141,675.307	520,268.965	3° 28' 08" (LT)	0° 45' 00"	231.331	462.521	7,639.437	N 3° 26' 37" E	N 0° 01' 31" W	NC	40
168				262+71.67	1,142,634.709	527,907.980												N 0° 01' 31" E		40	
@ CONST. 59TH AVE	183				22+40.00	1,127,723.923	527,174.218												N 89° 54' 45" E		35
	184				30+00.00	1,127,725.084	527,934.217											N 89° 54' 45" E	S 88° 04' 42" E		35
	185				34+18.43	1,127,711.053	528,352.411											S 88° 04' 42" E	S 87° 11' 17" E		35
	186				41+00.00	1,127,677.617	529,033.164											S 87° 11' 17" E			35
@ CONST. RANGELAND	187				222+58.89	1,129,587.330	527,182.361												S 89° 44' 59" E		35
	188				235+02.54	1,129,581.896	528,425.996											S 89° 44' 59" E	N 89° 52' 59" E		35
	189				236+10.05	1,129,582.116	528,533.503											N 89° 52' 59" E			35
@ CONST. 44TH	190				122+58.92	1,134,901.923	527,171.655												N 89° 53' 04" E		45
	191				137+03.05	1,134,904.832	528,615.777											N 89° 53' 04" E	N 89° 52' 59" E		45
	192				139+16.82	1,134,905.268	528,829.550											N 89° 52' 59" E			45

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

SCALE AS NOTED		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN	CURVE AND COORDINATE DATA	SHEET NO.	
DESIGNED BY BLZ			PROJECT NO. 6107660		FL. LICENSE NO. 78557		16	
DRAWN BY JMA								
CHECKED BY JLS								
No.	REVISIONS	DATE	BY					

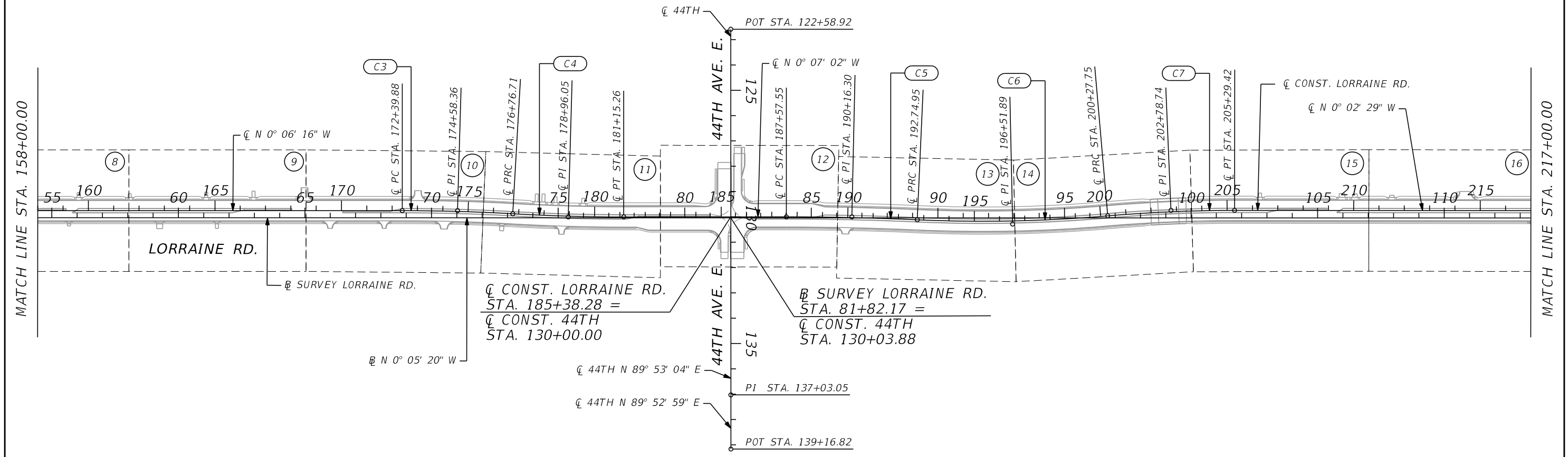
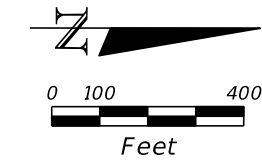
LEGEND
 (XX) ROADWAY PLAN (XX)



CURVE DATA C1		CURVE DATA C2	
PI STA.	= 138+57.15	PI STA.	= 143+00.53
Δ	= 3° 19' 09" (LT)	Δ	= 3° 19' 54" (RT)
D	= 0° 45' 00"	D	= 0° 45' 00"
T	= 221.33	T	= 222.17
L	= 442.54	L	= 444.22
R	= 7,639.44	R	= 7,639.44
PC STA.	= 136+35.82	PRC STA.	= 140+78.35
PT STA.	= 140+78.35	PT STA.	= 145+22.57
e	= NC	e	= NC

SCALE AS NOTED				DATE 11/2022		DESIGN ENGINEER BRIAN L. ZIMMERMAN		SHEET NO. 17
DESIGNED BY BLZ				PROJECT NO. 6107660		FL. LICENSE NO. 78557		
DRAWN BY JMA				PROJECT NO. 6107660		PROJECT LAYOUT (1)		
CHECKED BY JLS				PROJECT NO. 6107660		PROJECT LAYOUT (1)		
No.	REVISIONS	DATE	BY	HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		MANATEE COUNTY PUBLIC WORKS		

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



CURVE DATA C3
 PI STA. = 174+58.36
 Δ = 3° 16' 35" (RT)
 D = 0° 45' 00"
 T = 218.48
 L = 436.84
 R = 7,639.44
 PC STA. = 172+39.88
 PRC STA. = 176+76.71
 e = NC

CURVE DATA C4
 PI STA. = 178+96.05
 Δ = 3° 17' 21" (LT)
 D = 0° 45' 00"
 T = 219.33
 L = 438.55
 R = 7,639.44
 PRC STA. = 176+76.71
 PT STA. = 181+15.26
 e = NC

CURVE DATA C5
 PI STA. = 190+16.30
 Δ = 2° 35' 13" (RT)
 D = 0° 30' 00"
 T = 258.75
 L = 517.40
 R = 11,459.16
 PC STA. = 187+57.55
 PRC STA. = 192+74.95
 e = NC

CURVE DATA C6
 PI STA. = 196+51.89
 Δ = 7° 31' 41" (LT)
 D = 1° 00' 00"
 T = 376.94
 L = 752.79
 R = 5,729.58
 PRC STA. = 192+74.95
 PRC STA. = 200+27.75
 e = NC

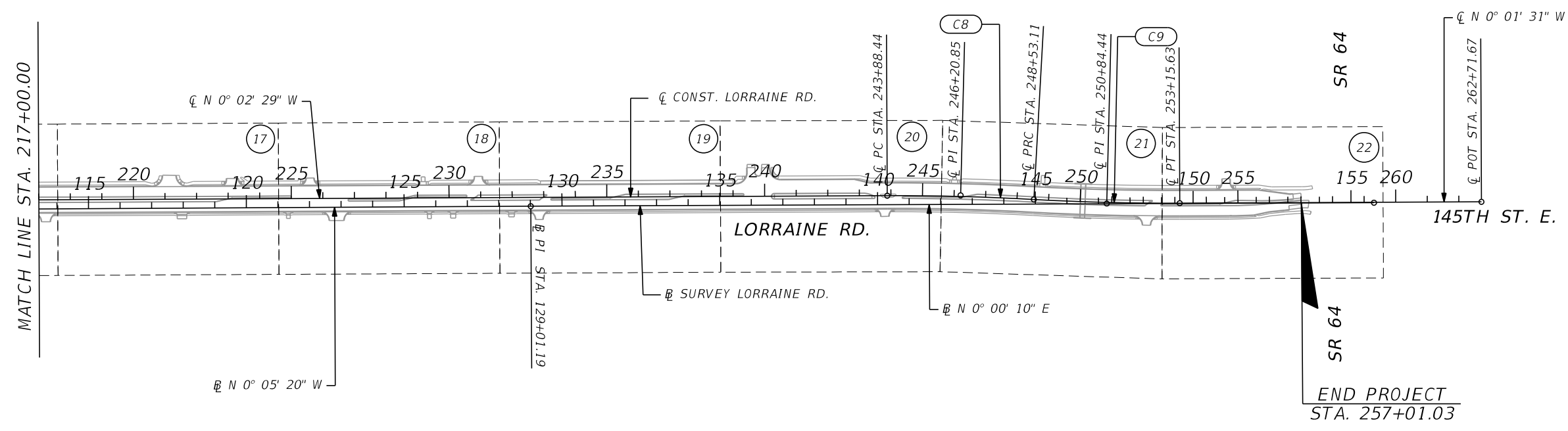
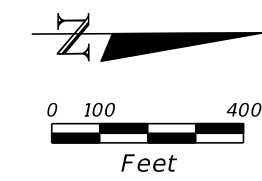
CURVE DATA C7
 PI STA. = 202+78.74
 Δ = 5° 01' 00" (RT)
 D = 1° 00' 00"
 T = 251.00
 L = 501.67
 R = 5,729.58
 PRC STA. = 200+27.75
 PT STA. = 205+29.42
 e = NC

SCALE AS NOTED				DATE 11/2022		DESIGN ENGINEER BRIAN L. ZIMMERMAN		SHEET NO. 18
DESIGNED BY BLZ				PROJECT NO. 6107660		FL. LICENSE NO. 78557		
DRAWN BY JMA				PROJECT NO. 6107660		PROJECT LAYOUT (2)		
CHECKED BY JLS				PROJECT NO. 6107660		PROJECT LAYOUT (2)		
No.	REVISIONS	DATE	BY	PROJECT NO. 6107660		PROJECT LAYOUT (2)		

HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

MANATEE COUNTY PUBLIC WORKS

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



CURVE DATA C8		CURVE DATA C9	
PI STA.	= 246+20.85	PI STA.	= 250+84.44
Δ	= 3° 29' 06" (RT)	Δ	= 3° 28' 08" (LT)
D	= 0° 45' 00"	D	= 0° 45' 00"
T	= 232.41	T	= 231.33
L	= 464.68	L	= 462.52
R	= 7,639.44	R	= 7,639.44
PC STA.	= 243+88.44	PRC STA.	= 248+53.11
PRC STA.	= 248+53.11	PT STA.	= 253+15.63
e	= NC	e	= NC

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS				HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022 PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		SHEET NO. 19	
PROJECT LAYOUT (3)													

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

PROJECT NOTES:

1. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED.
2. THE REMOVAL OF ANY DRAINAGE STRUCTURE OR PIPE WITHIN 5.0 FEET OF ANY UTILITY THAT IS IN SERVICE SHALL BE ACCOMPLISHED SO AS NOT TO DAMAGE THE UTILITY.
3. ANY PORTION OF THE EXISTING RIGHT-OF-WAY THAT IS DISTURBED OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE REDRESSED AND SODDED AT THE CONTRACTOR'S EXPENSE.
4. NO STOCKPILE OF MATERIAL IS PERMITTED WITHIN THE PROJECT LIMITS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
5. ALL BOTTOM PROFILE ELEVATIONS AND CROSS SECTIONS FOR TREATMENT/ATTENUATION SWALES SHALL BE CONSTRUCTED TO WITHIN ±0.1 FEET OF THE VALUES SHOWN ON THE PLANS.
6. EXISTING DRIVEWAYS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE REPLACED AT THE SAME LOCATION AND WIDTH, UNLESS OTHERWISE SHOWN IN THE PLANS.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY EXISTING DRAINAGE INVERT ELEVATIONS THAT WILL REMAIN PART OF THE PROPOSED DRAINAGE SYSTEM. ANY DIFFERENCE FROM PLAN ELEVATION SHALL BE REPORTED TO THE ENGINEER.
8. EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN CONSTRUCTION LIMITS SHALL REMAIN, UNLESS OTHERWISE NOTED.
9. UNLESS OTHERWISE NOTED, ALL ROADWAY STATIONS AND OFFSETS ARE REFERENCED FROM THE CENTERLINES OF CONSTRUCTION. RIGHT-OF-WAY STATIONS AND OFFSETS REFERENCE THE BASELINE OF SURVEY. END-OF-SHEET RIGHT-OF-WAY DIMENSIONS ARE OFFSET FROM THE CENTERLINES OF CONSTRUCTION.
10. THE COUNTY RESERVES THE RIGHT TO PERFORM QUALITY ASSURANCE TESTING ON ALL MATERIAL DELIVERED TO THE PROJECT AND TO REJECT ALL MATERIALS NOT MEETING ACCEPTABLE STANDARDS.
11. ANY DAMAGE TO COUNTY OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY. PAYMENT SHALL NOT BE MADE FOR THIS WORK.
12. OVERALL CLEANUP SHALL BE ACCOMPLISHED BY THE CONTRACTOR TO THE SATISFACTION OF THE COUNTY. ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR MOBILIZATION.
13. DRIVEWAY LOCATION AND WIDTH MAY BE FIELD ADJUSTED DURING CONSTRUCTION BY THE CONTRACTOR IN COORDINATION WITH REQUESTS FROM PROPERTY OWNERS AND COUNTY COORDINATION.
14. CONTRACTOR SHALL INSTALL SOIL TRACKING PREVENTION DEVICES AT ALL POINTS OF CONSTRUCTION VEHICLE INGRESS/EGRESS.
15. SEE COUNTY HIGHWAY & TRAFFIC STANDARD MANUAL ROAD CONNECTION DETAIL 403.3 AT ALL WIDENING AND CONNECTIONS TO EXISTING PAVEMENT.
16. BEARINGS AND COORDINATES (IN U.S. SURVEY FEET) ARE BASED ON THE NATIONAL GEODETIC SURVEY (NGS), FLORIDA STATE PLANE COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OR 1983 (NAD83) 2011 ADJUSTMENT.
17. ELEVATIONS SHOWN HEREON ARE BASED ON MANATEE COUNTY CONTROL BENCHMARKS DESIGNATION:
 - "HAWK" (NORTHING = 1,139,539', EASTING = 527,867', EL: 46.22')
 - "BARN OWL" (NORTHING = 1,137,411', EASTING = 527,941', EL: 44.53')
 - "OSPREY" (NORTHING = 1,134,978', EASTING = 527,879', EL: 50.40')
 - "FALCON" (NORTHING = 1,131,766', EASTING = 527,950', EL: 46.95')
 - "EAGLE" (NORTHING = 1,128,909', EASTING = 527,950', EL: 35.70')


NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88)
18. UTILIZE SPECIAL STEEL POST FOR GUARDRAIL MOUNTING ON CONCRETE STRUCTURES PER INDEX 536-001.
19. ALL CONSTRUCTION WITHIN MANATEE COUNTY RIGHT-OF-WAY IS TO BE PER MANATEE COUNTY PUBLIC WORKS STANDARDS.

UTILITY/AGENCY OWNERS	COMPANY	CONTACT	TELEPHONE NUMBER
	AT&T	KEVIN TALECKI	(610) 200-3365
	BRADEN RIVER UTILITIES, INC.	JAMES BENNETT	(941) 757-1576
	FRONTIER COMMUNICATIONS	DENISE HUTTON	(941) 906-6722
	MCI	ANDREW COLE	(813) 847-4037
	MANATEE COUNTY TRANSPORTATION DEPARTMENT	KATHY MCMAHON	(941) 348-7112 x5002
	MANATEE COUNTY UTILITY OPERATIONS	KATHY MCMAHON	(941) 348-7112 x5002
	SPECTRUM SUNSHINE STATE, LLC	THOMAS MUMEA	(941) 737-0003
	TECO PEOPLES GAS - SARASOTA	ALEX MCFARLANE	(813) 275-3762
	PEACE RIVER ELECTRIC COOPERATIVE, INC.	DAVID MCCLINTOCK	(863) 767-4621

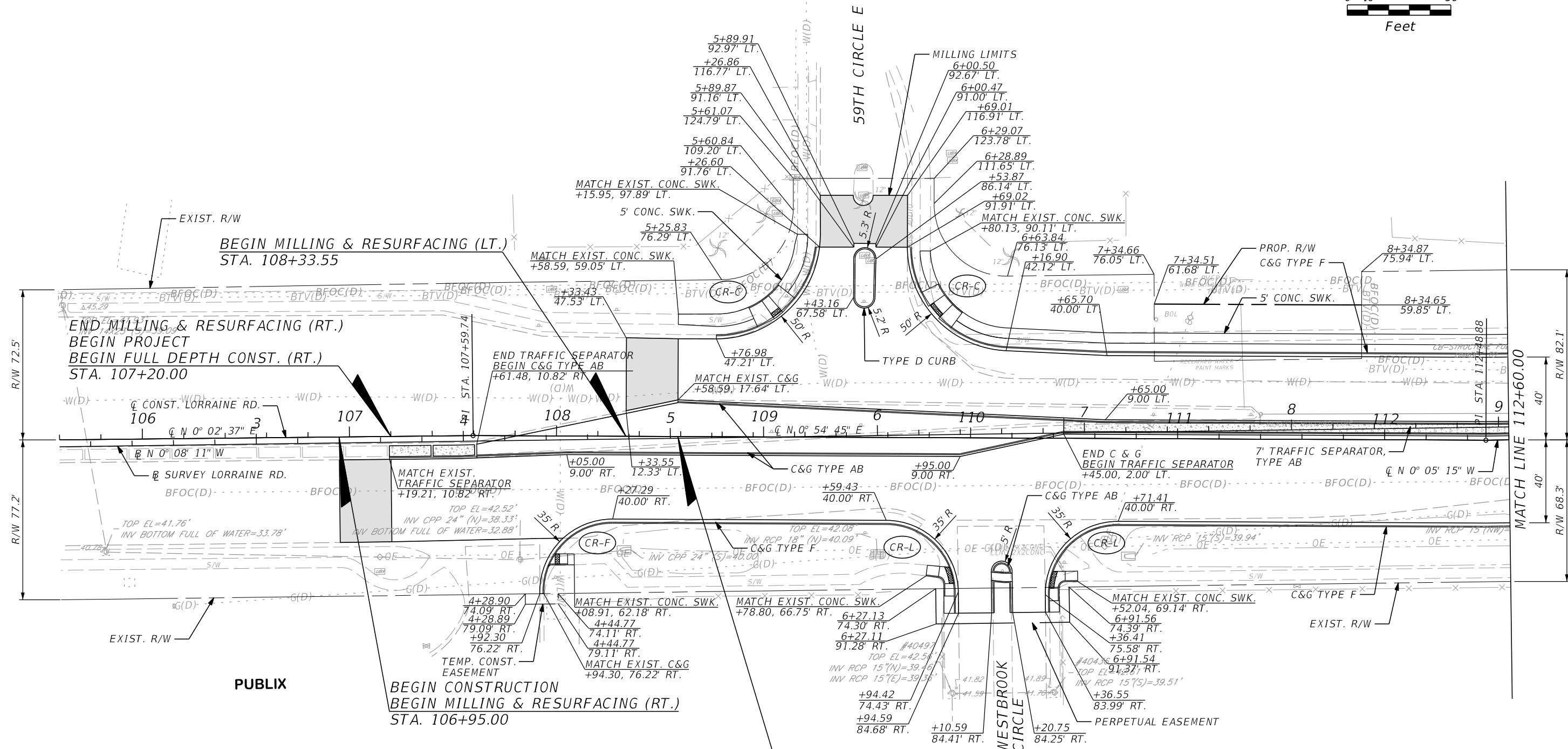
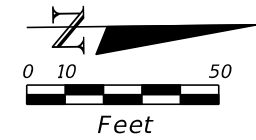
DRAINAGE STRUCTURE NOTES:

1. THE CONTRACTOR IS TO FIELD VERIFY THE LOCATIONS AND ELEVATIONS OF ALL DRAINAGE STRUCTURES AND PIPES PRIOR TO ORDERING, CASTING OR PLACING PROPOSED DRAINAGE STRUCTURES AND PIPES.
2. ALL STORMDRAIN MANHOLES SHALL USE MANATEE COUNTY ACCESS COVER, PER MANATEE COUNTY STANDARD NO. 203.1.
3. ANY STORMDRAIN INLETS REQUIRING AN ACCESS COVER SHALL BE IN ACCORDANCE WITH MANATEE COUNTY STANDARD NO. 203.2.
4. ALL PROPOSED STORM SEWER PIPE SHALL BE RCP CLASS II UNLESS NOTED OTHERWISE.

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

SCALE		AS NOTED	DATE		11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	BRIAN L. ZIMMERMAN	GENERAL NOTES	SHEET NO.	20
DESIGNED BY		BLZ	PROJECT NO.		6107660		FL. LICENSE NO.	78557			
DRAWN BY		JMA	HDR ENGINEERING, INC.		4830 W KENNEDY BLVD, SUITE 400						
CHECKED BY		JLS	TAMPA, FL 33609								
No.	REVISIONS	DATE	BY								

LORRAINE ROAD



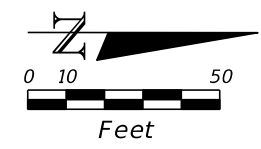
LEGEND	
	MILLING & RESURFACING
	DETECTABLE WARNING
	CONCRETE

No.		REVISIONS		DATE	BY	SCALE	AS NOTED	<p>HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609</p>	DATE	11/2022	<p>MANATEE COUNTY PUBLIC WORKS</p>	DESIGN ENGINEER	BRIAN L. ZIMMERMAN	<p>ROADWAY PLAN (1)</p>	SHEET NO.	21
									PROJECT NO.	6107660		FL. LICENSE NO.	78557			

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

LORRAINE ROAD

1 C CONST. 59TH AVE. E.
PI STA. 30+00.00



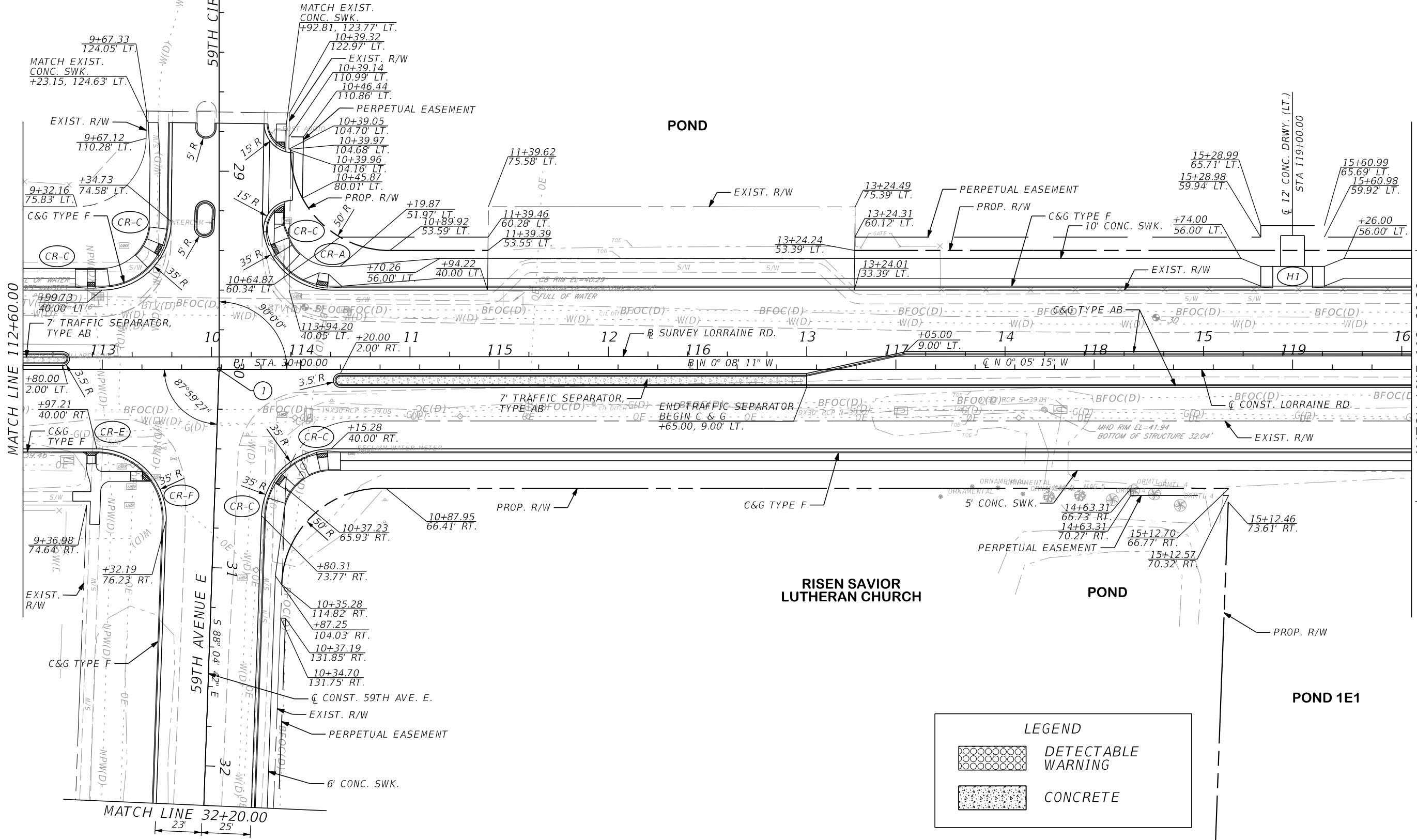
JOE'S FRESH ROAST

POND

RISEN SAVIOR LUTHERAN CHURCH

POND

POND 1E1



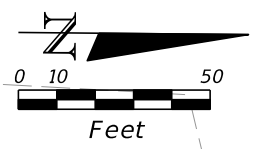
LEGEND

- DETECTABLE WARNING
- CONCRETE

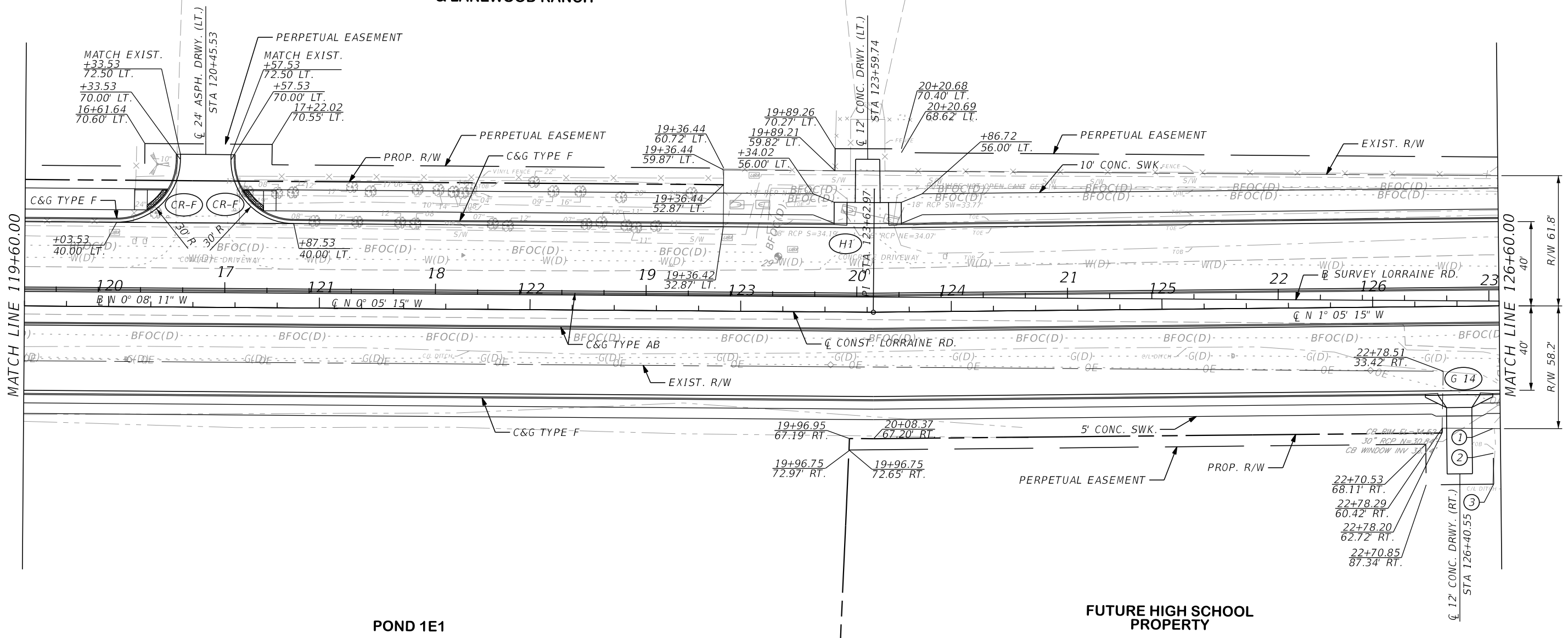
SCALE AS NOTED		<p>HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609</p>	DATE 11/2022	<p>MANATEE COUNTY PUBLIC WORKS</p>	DESIGN ENGINEER BRIAN L. ZIMMERMAN	<p>ROADWAY PLAN (2)</p>	SHEET NO.
DESIGNED BY BLZ			PROJECT NO. 6107660		FL. LICENSE NO. 78557		22
DRAWN BY JMA							
CHECKED BY JLS							
No.	REVISIONS	DATE	BY				

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

LORRAINE ROAD



CHABAD OF BRADENTON & LAKEWOOD RANCH



MATCH LINE 119+60.00

MATCH LINE 126+60.00

LEGEND

	DETECTABLE WARNING
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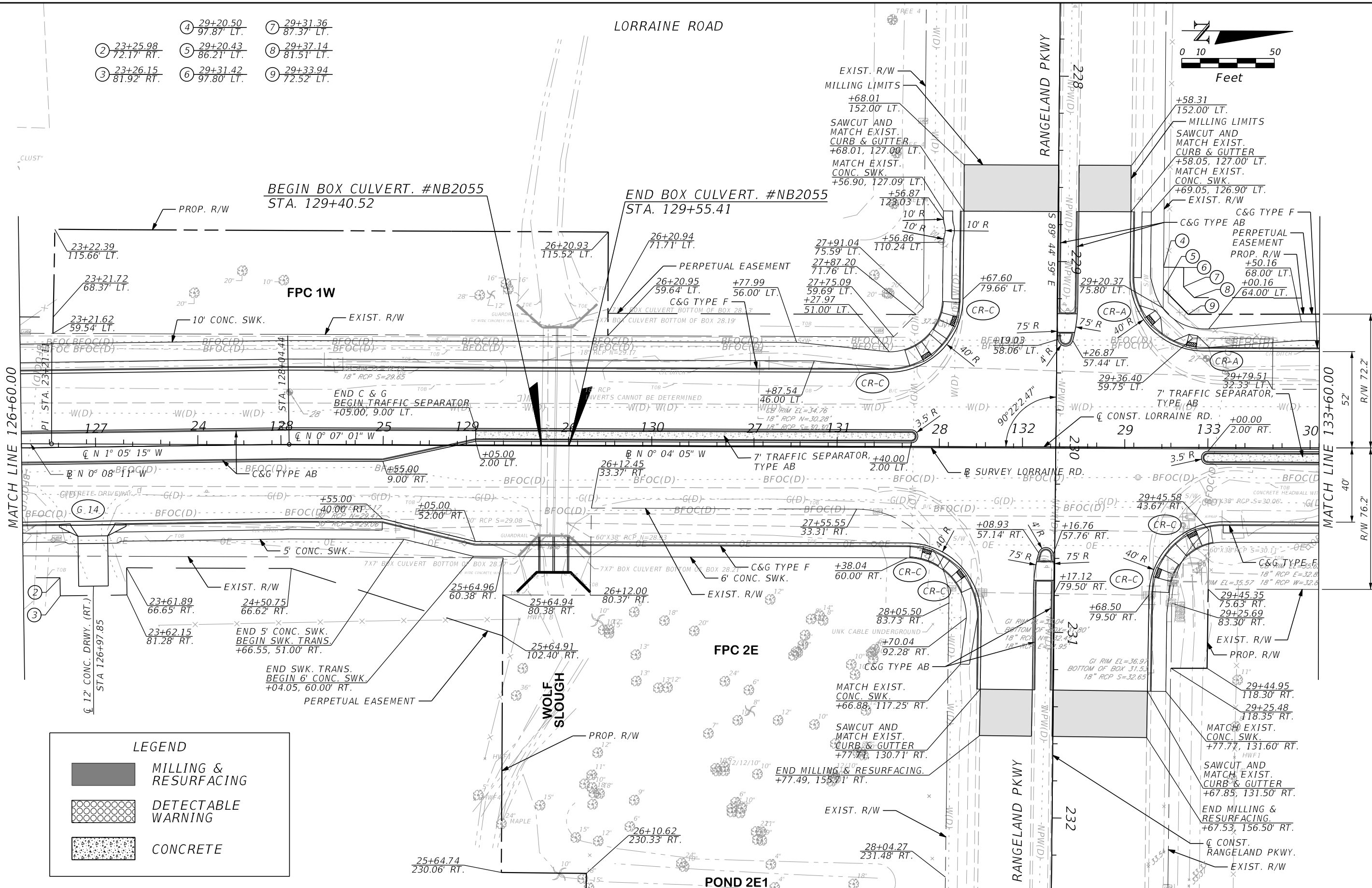
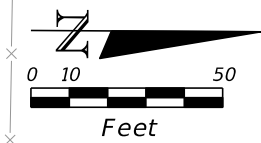
- ① 23+02.41
60.44' RT.
- ② 23+02.60
72.16' RT.
- ③ 23+02.84
86.81' RT.

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS				 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022 PROJECT NO. 6107660		 MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		SHEET NO. 23	
ROADWAY PLAN (3)													

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

② 23+25.98 72.17' RT.	④ 29+20.50 97.87' LT.	⑦ 29+31.36 87.37' LT.
③ 23+26.15 81.92' RT.	⑤ 29+20.43 86.21' LT.	⑧ 29+37.14 81.51' LT.
	⑥ 29+31.42 97.80' LT.	⑨ 29+33.94 72.52' LT.

LORRAINE ROAD

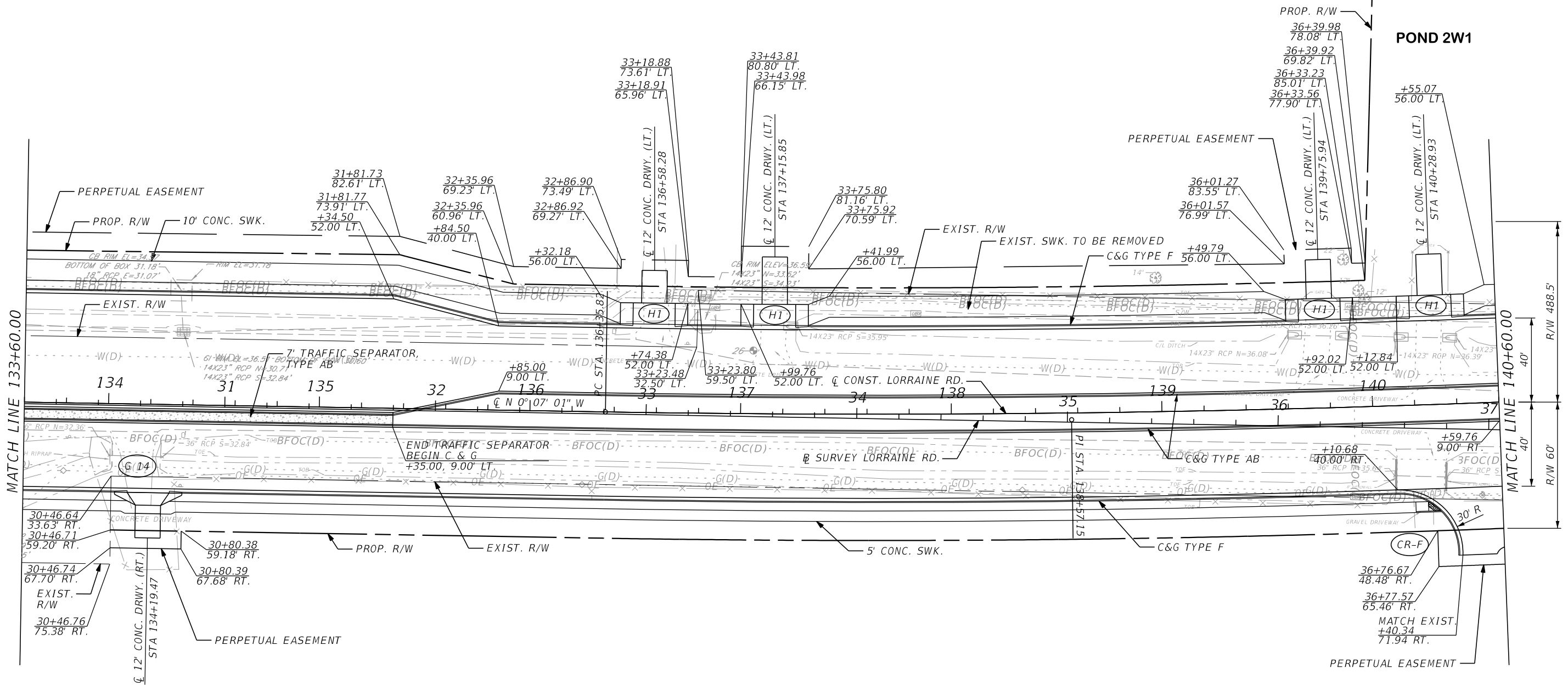
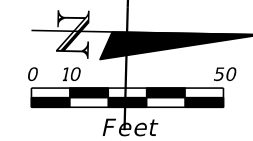


LEGEND	
	MILLING & RESURFACING
	DETECTABLE WARNING
	CONCRETE

No.	REVISIONS	DATE	BY	SCALE	AS NOTED	DATE	11/2022	PROJECT NO.	6107660	DESIGN ENGINEER	BRIAN L. ZIMMERMAN	FL. LICENSE NO.	78557	SHEET NO.	24
				DESIGNED BY	BLZ						MANATEE COUNTY PUBLIC WORKS				
				DRAWN BY	JMA										
				CHECKED BY	JLS										

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

LORRAINE ROAD



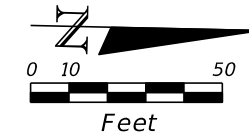
LEGEND

- DETECTABLE WARNING
- CONCRETE

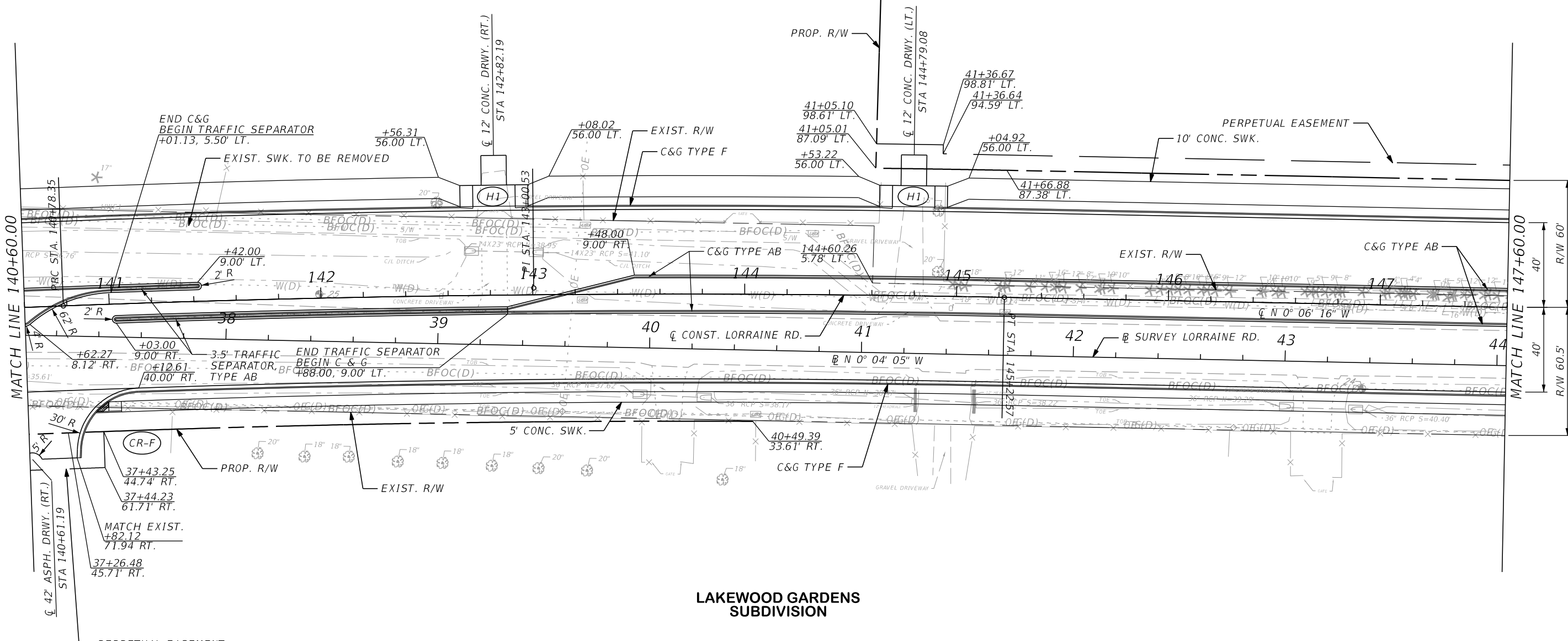
		SCALE AS NOTED		DATE 11/2022		DESIGN ENGINEER BRIAN L. ZIMMERMAN		SHEET NO. 25
		DESIGNED BY BLZ	 HDR HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	PROJECT NO. 6107660	 MANATEE COUNTY PUBLIC WORKS	FL. LICENSE NO. 78557	ROADWAY PLAN (5)	
No.	REVISIONS	DATE		BY				

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LORRAINE ROAD



POND 2W1



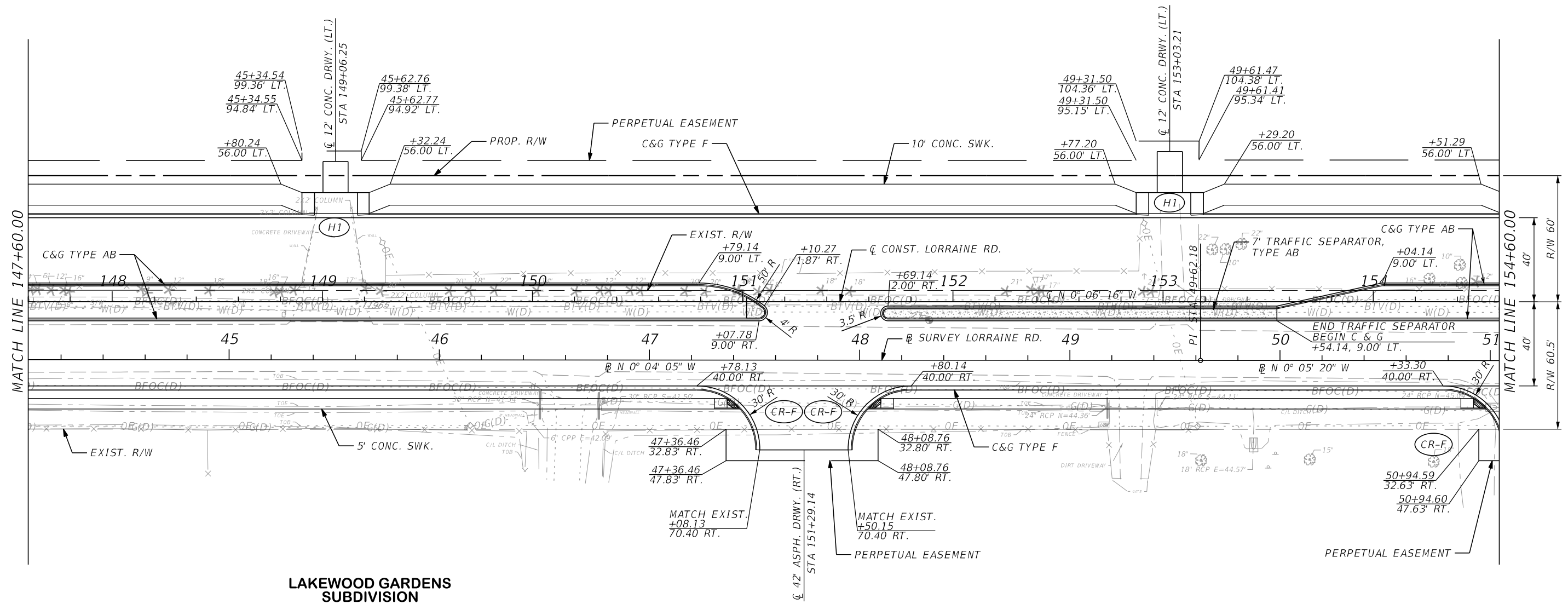
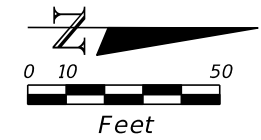
LEGEND

	DETECTABLE WARNING
	CONCRETE

				SCALE AS NOTED		DATE 11/2022		DESIGN ENGINEER BRIAN L. ZIMMERMAN	SHEET NO. 26
				DESIGNED BY BLZ		PROJECT NO. 6107660		FL. LICENSE NO. 78557	
				DRAWN BY JMA		MANATEE COUNTY PUBLIC WORKS			
				CHECKED BY JLS		ROADWAY PLAN (6)			
No.	REVISIONS	DATE	BY	TAMPA, FL 33609					

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LORRAINE ROAD



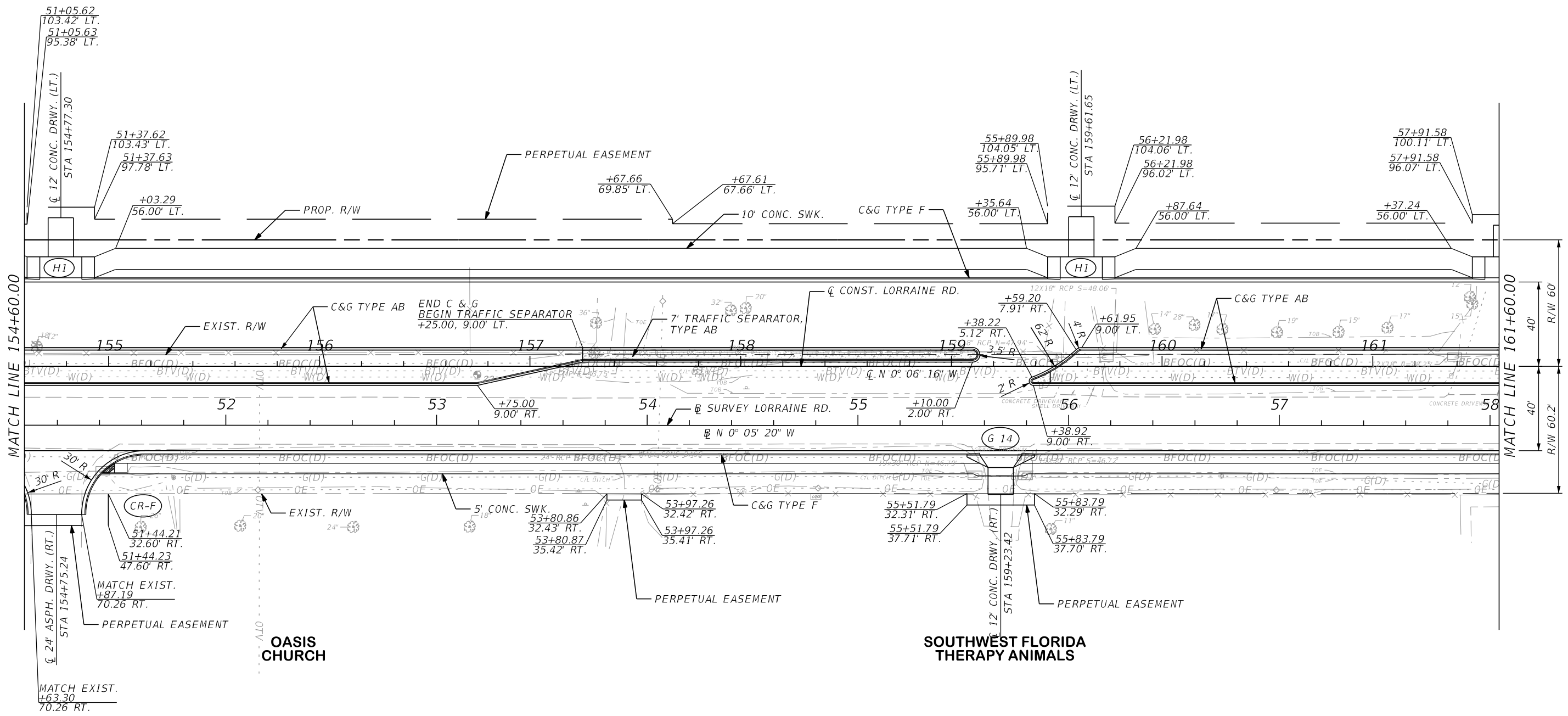
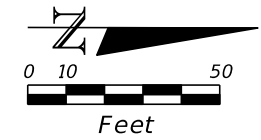
LAKWOOD GARDENS SUBDIVISION

LEGEND	
	DETECTABLE WARNING
	CONCRETE

No.	REVISIONS	DATE	BY	SCALE AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN	ROADWAY PLAN (7)	SHEET NO.
				DRAWN BY JMA		PROJECT NO. 6107660		FL. LICENSE NO. 78557		27
				CHECKED BY JLS						

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LORRAINE ROAD

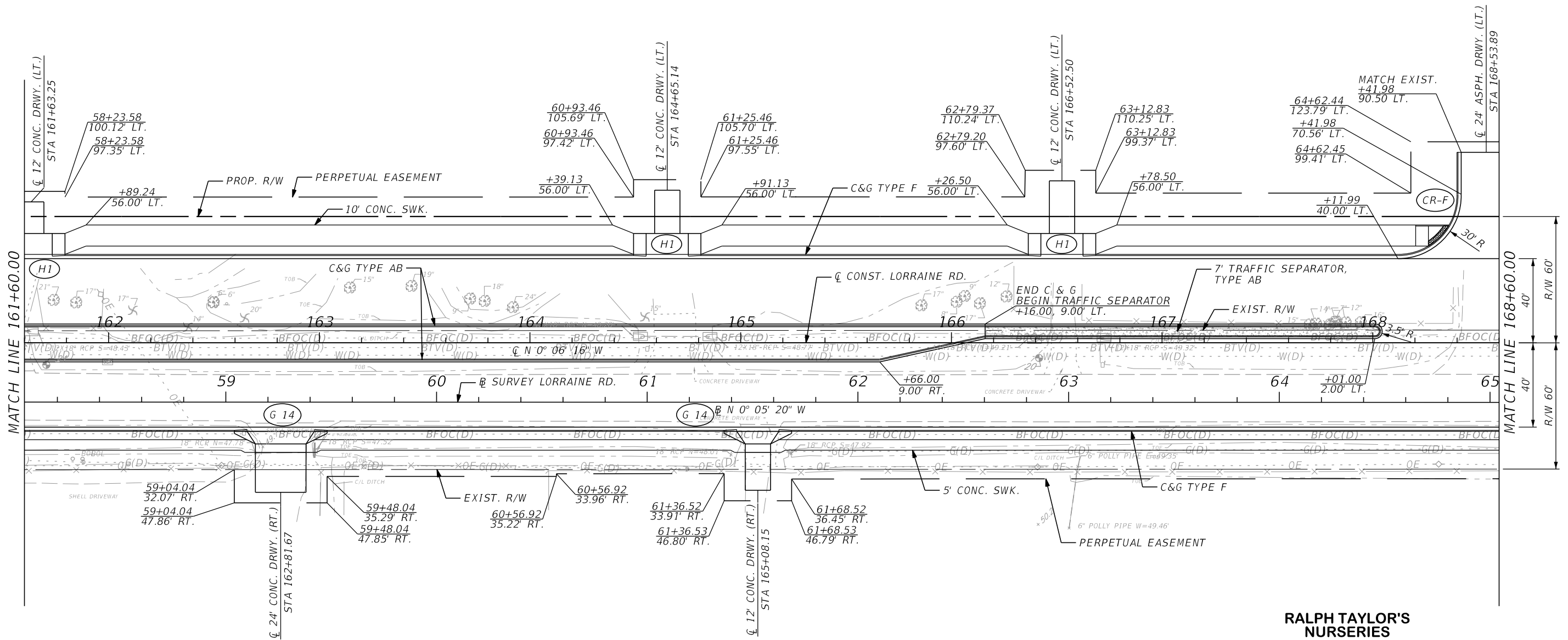
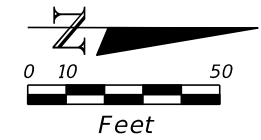


LEGEND	
	DETECTABLE WARNING
	CONCRETE

No.	REVISIONS	DATE	BY	SCALE AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN	ROADWAY PLAN (8)	SHEET NO. 28
				DRAWN BY JMA		PROJECT NO. 6107660		FL. LICENSE NO. 78557		
				CHECKED BY JLS						

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LORRAINE ROAD



MATCH LINE 161+60.00

MATCH LINE 168+60.00

LEGEND

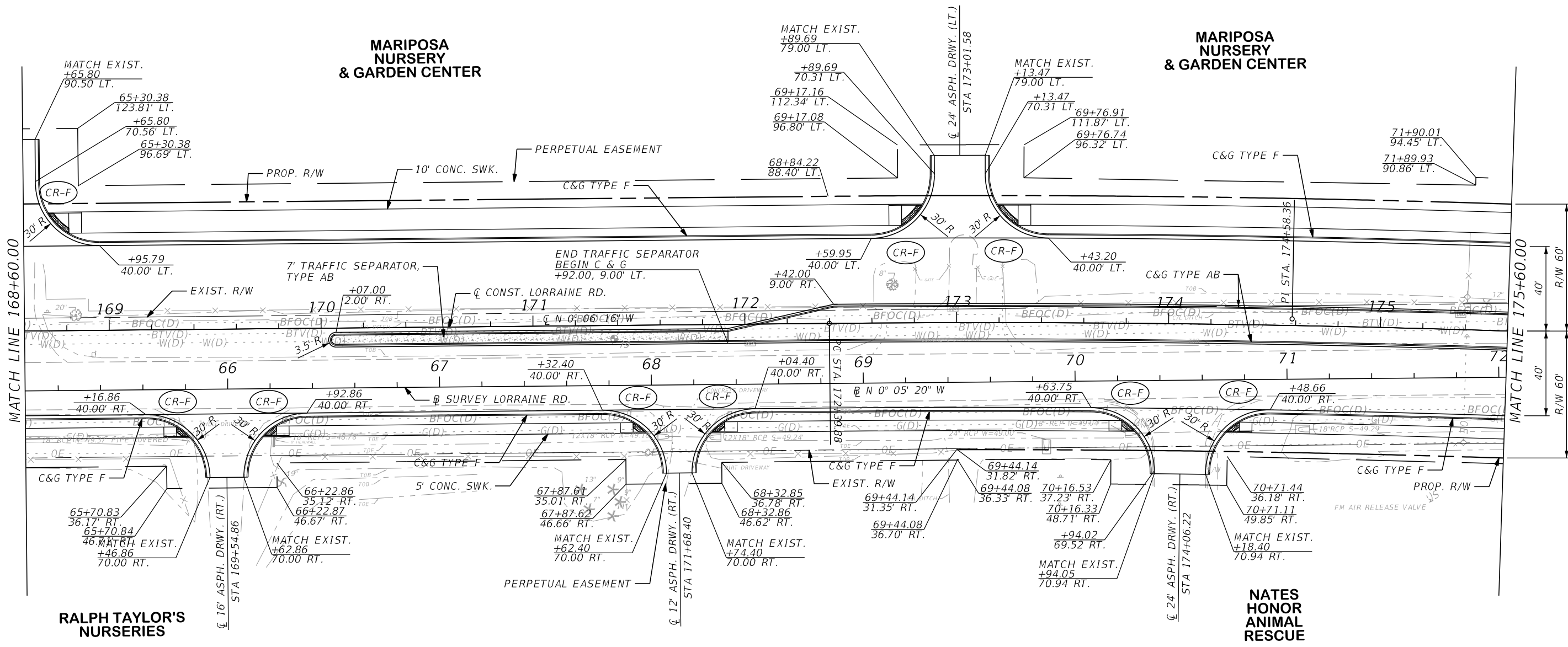
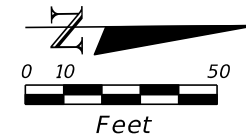
	DETECTABLE WARNING
	CONCRETE

RALPH TAYLOR'S NURSERIES

No.	REVISIONS	DATE	BY	SCALE	AS NOTED	DATE	11/2022	PROJECT NO.	6107660	DESIGN ENGINEER	BRIAN L. ZIMMERMAN	SHEET NO.	29
				DESIGNED BY	BLZ						FL. LICENSE NO.		
				DRAWN BY	JMA	MANATEE COUNTY PUBLIC WORKS		ROADWAY PLAN (9)					
				CHECKED BY	JLS	MANATEE COUNTY FLORIDA							

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LORRAINE ROAD



LEGEND	
	DETECTABLE WARNING
	CONCRETE

No.	REVISIONS	DATE	BY	SCALE	AS NOTED	DATE	11/2022	PROJECT NO.	6107660	DESIGN ENGINEER	BRIAN L. ZIMMERMAN	FL. LICENSE NO.	78557	SHEET NO.	30
				DESIGNED BY	BLZ										
				DRAWN BY	JMA	PROJECT NO.		6107660		DESIGN ENGINEER		BRIAN L. ZIMMERMAN		SHEET NO.	
				CHECKED BY	JLS	PROJECT NO.		6107660		DESIGN ENGINEER		BRIAN L. ZIMMERMAN		SHEET NO.	

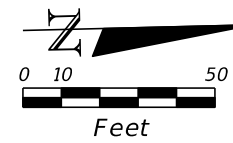
HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

Manatee County
 FLORIDA
MANATEE COUNTY
PUBLIC WORKS

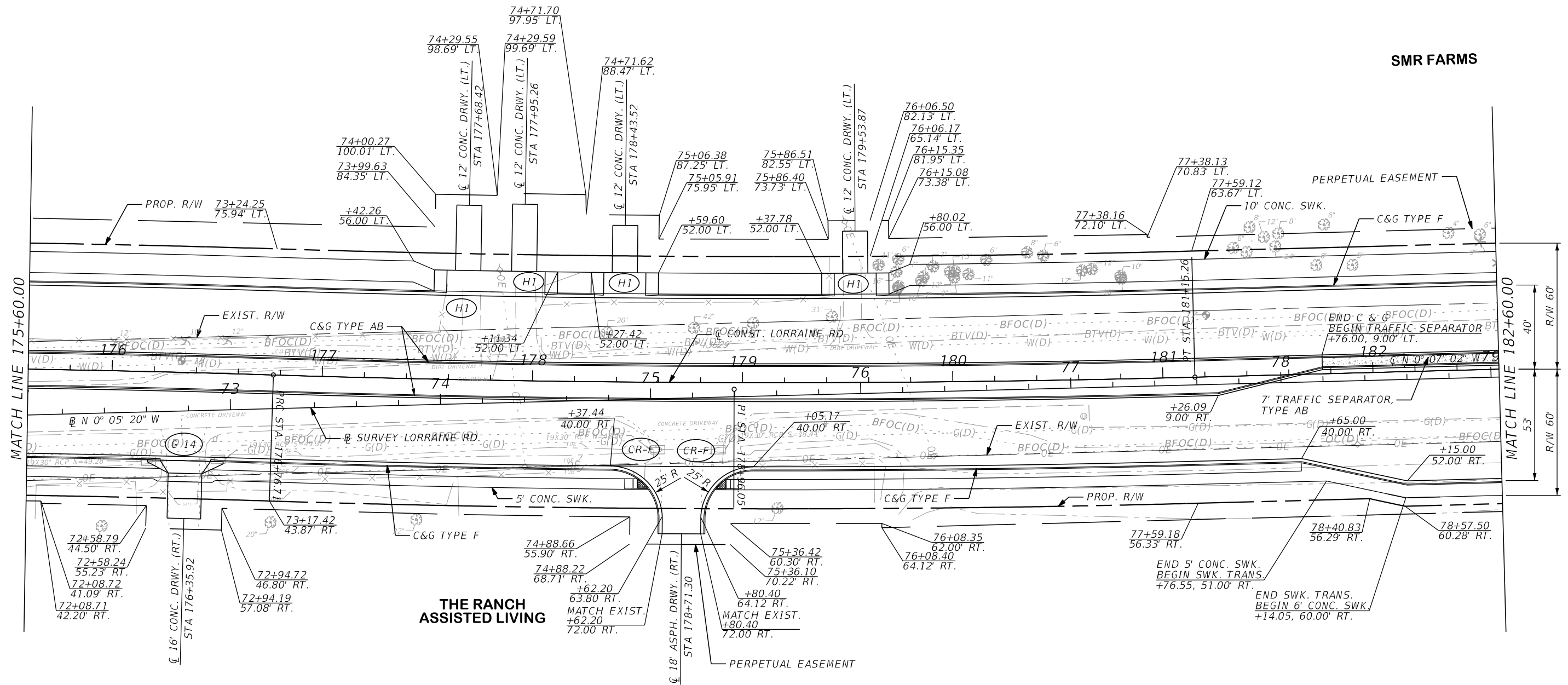
ROADWAY PLAN (10)

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

LORRAINE ROAD



SMR FARMS

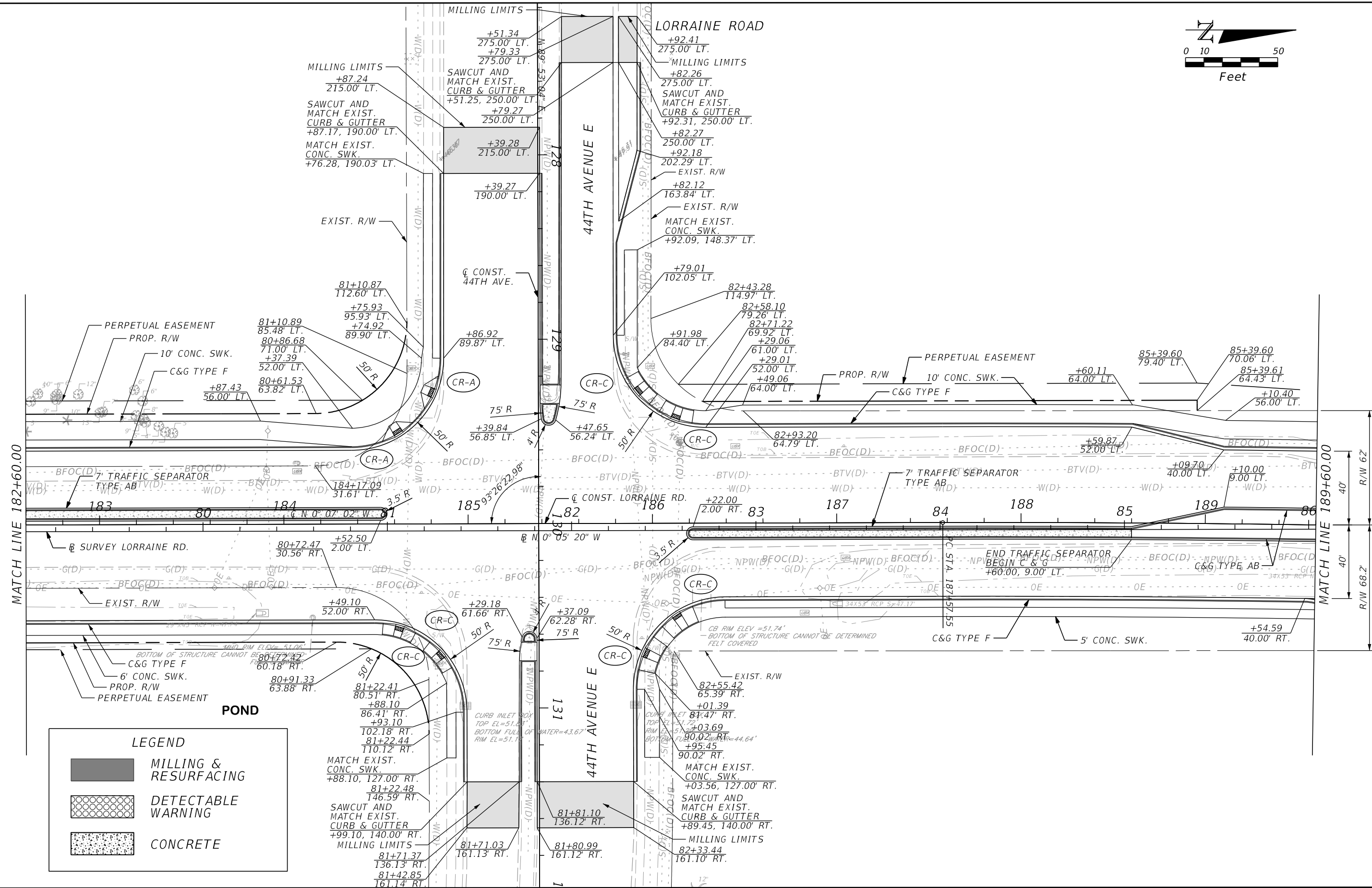
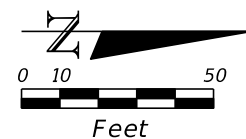


LEGEND

- DETECTABLE WARNING
- CONCRETE

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS				HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022 PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		SHEET NO. 31	
ROADWAY PLAN (11)													

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

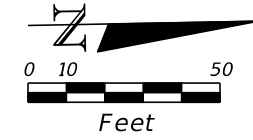


LEGEND

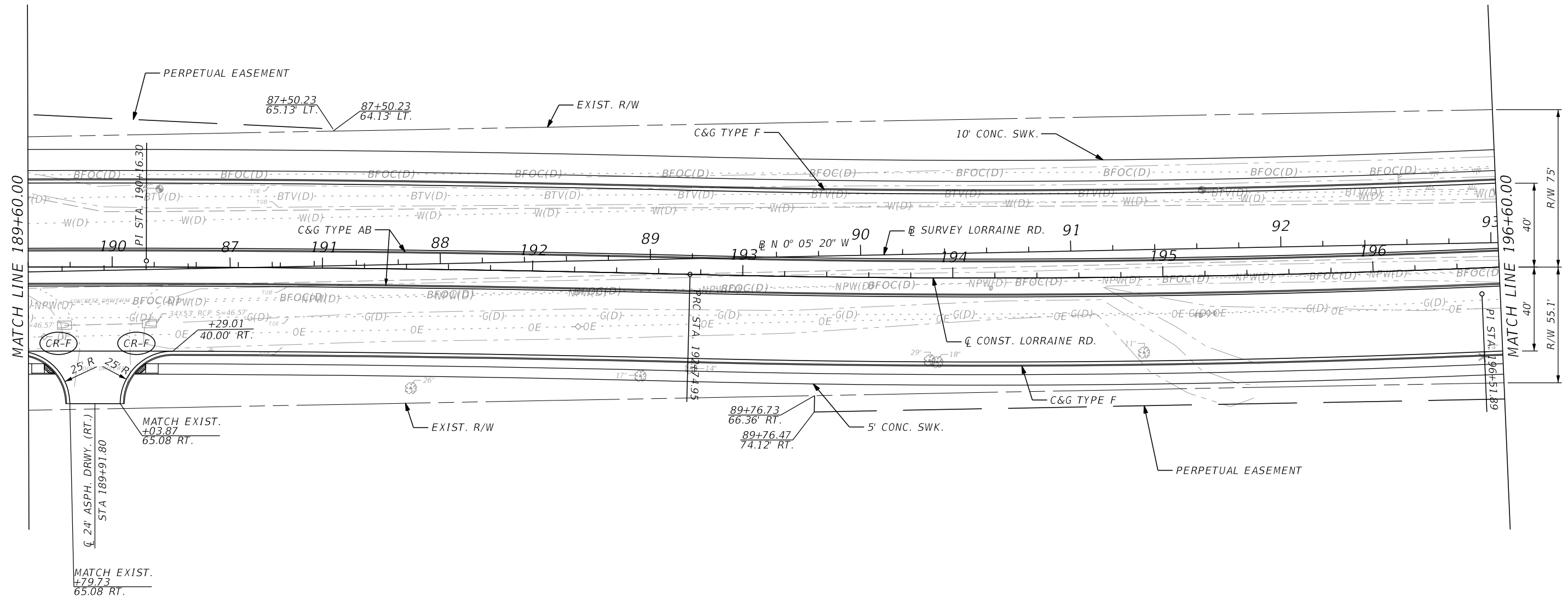
- MILLING & RESURFACING
- DETECTABLE WARNING
- CONCRETE

SCALE AS NOTED				DATE 11/2022		DESIGN ENGINEER BRIAN L. ZIMMERMAN	
DESIGNED BY BLZ				PROJECT NO. 6107660		FL. LICENSE NO. 78557	
DRAWN BY JMA				MANATEE COUNTY PUBLIC WORKS		ROADWAY PLAN (12)	
CHECKED BY JLS							
HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609				THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.			

LORRAINE ROAD



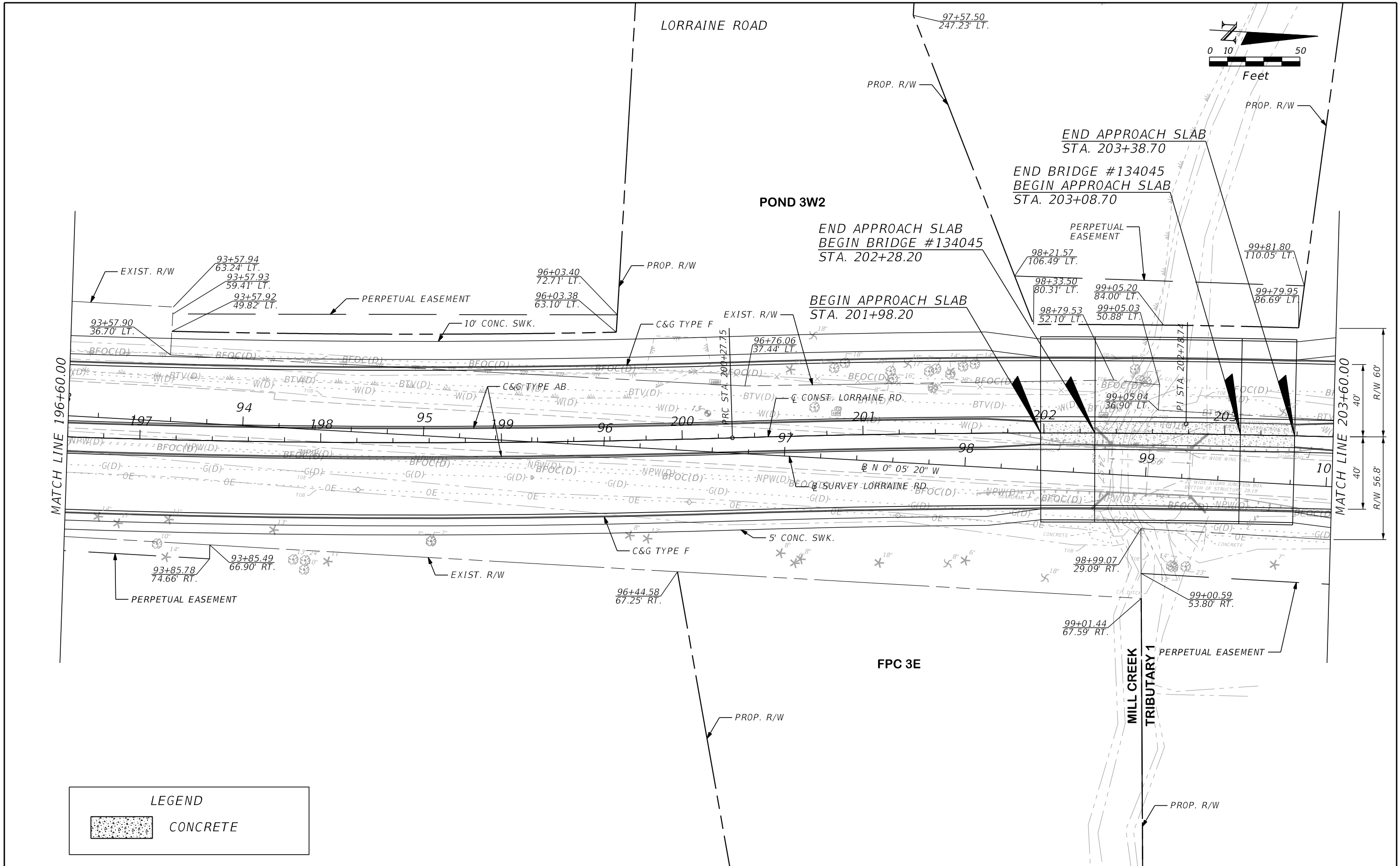
SMR FARMS



LEGEND	
	DETECTABLE WARNING

No.	REVISIONS	DATE	BY	SCALE AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN	ROADWAY PLAN (13)	SHEET NO. 33
				DESIGNED BY BLZ		PROJECT NO. 6107660		FL. LICENSE NO. 78557		
				DRAWN BY JMA						
				CHECKED BY JLS						


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MATCH LINE 196+60.00

MATCH LINE 203+60.00

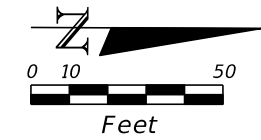
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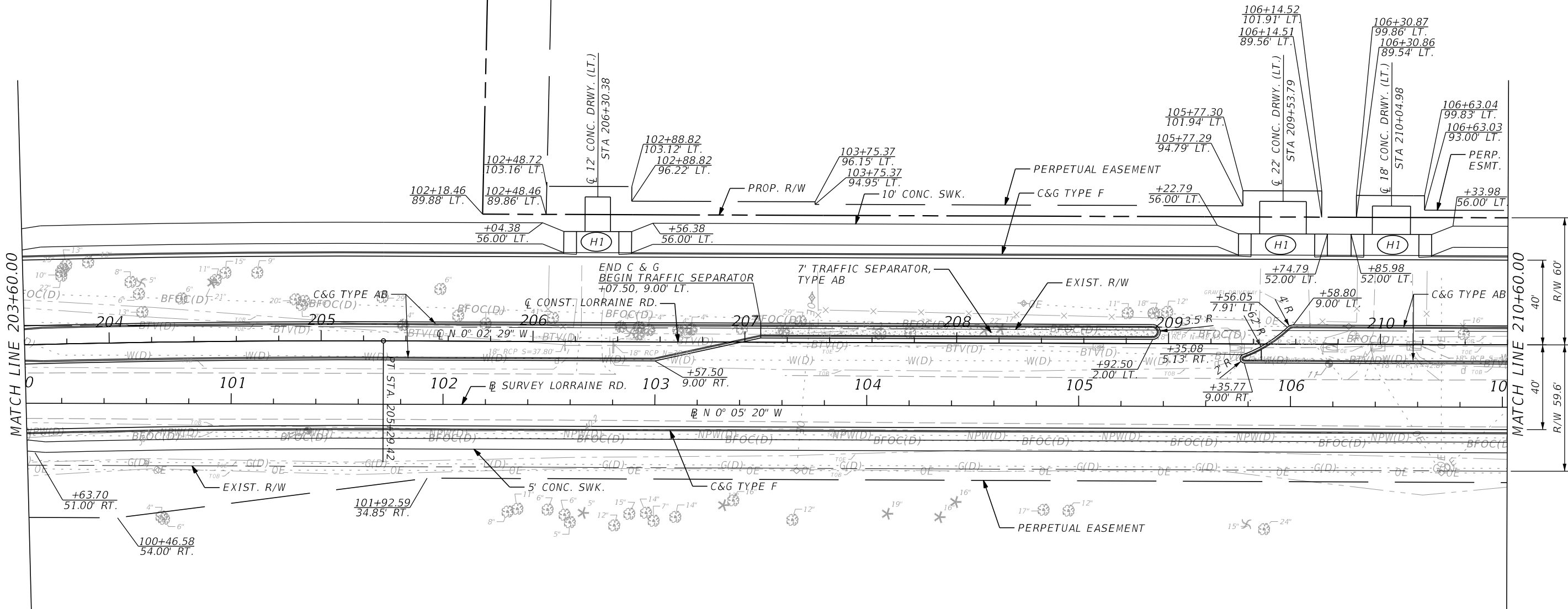
SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS				 HDR HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022 PROJECT NO. 6107660		 MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		ROADWAY PLAN (14)		SHEET NO. 34	
No.	REVISIONS	DATE	BY												

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LORRAINE ROAD





JH DIESEL
&4X4



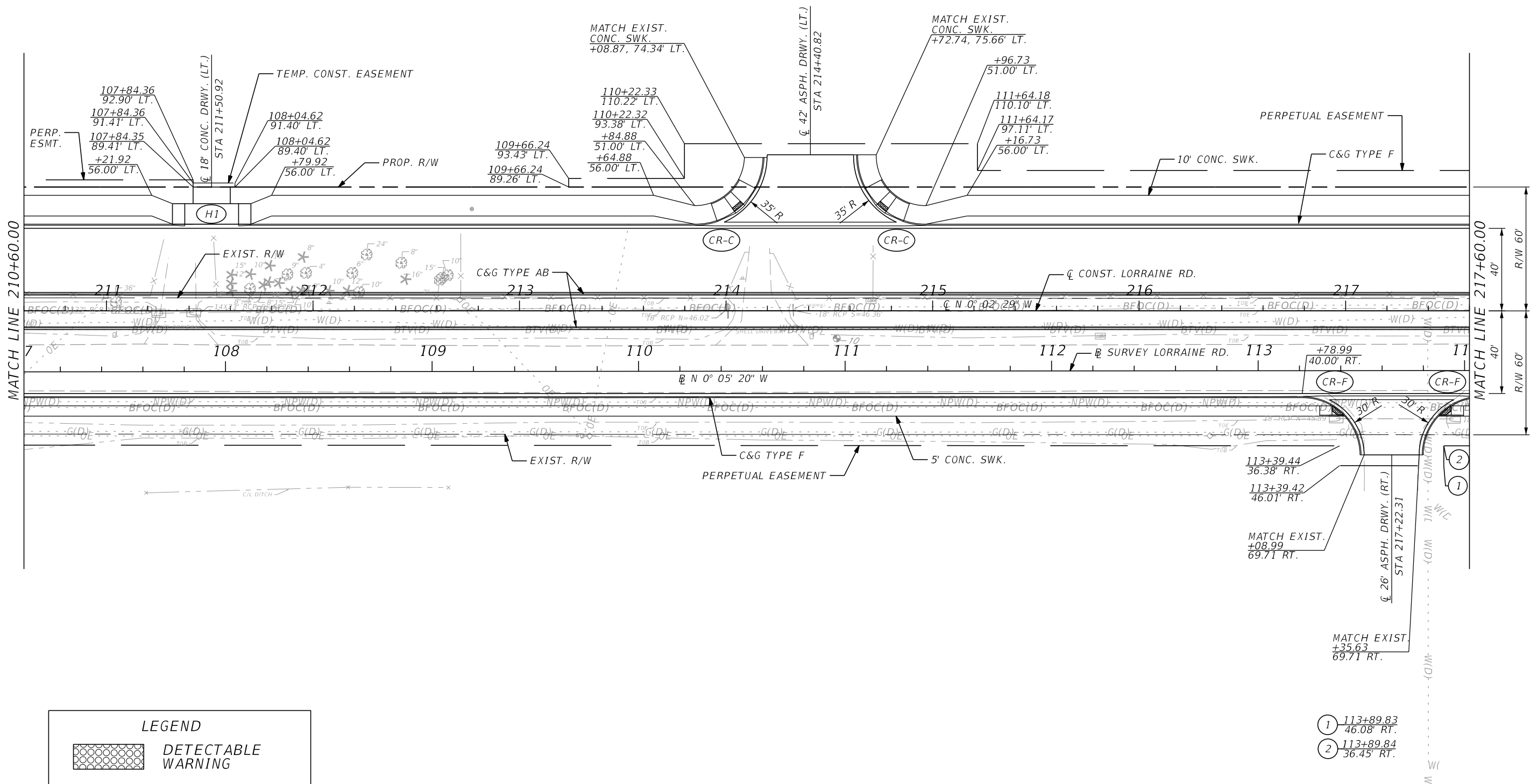
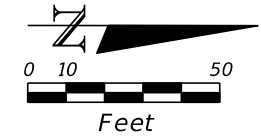
LEGEND

 CONCRETE

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS				 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022 PROJECT NO. 6107660		 MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		SHEET NO. 35	
No. REVISIONS DATE BY								ROADWAY PLAN (15)					

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LORRAINE ROAD

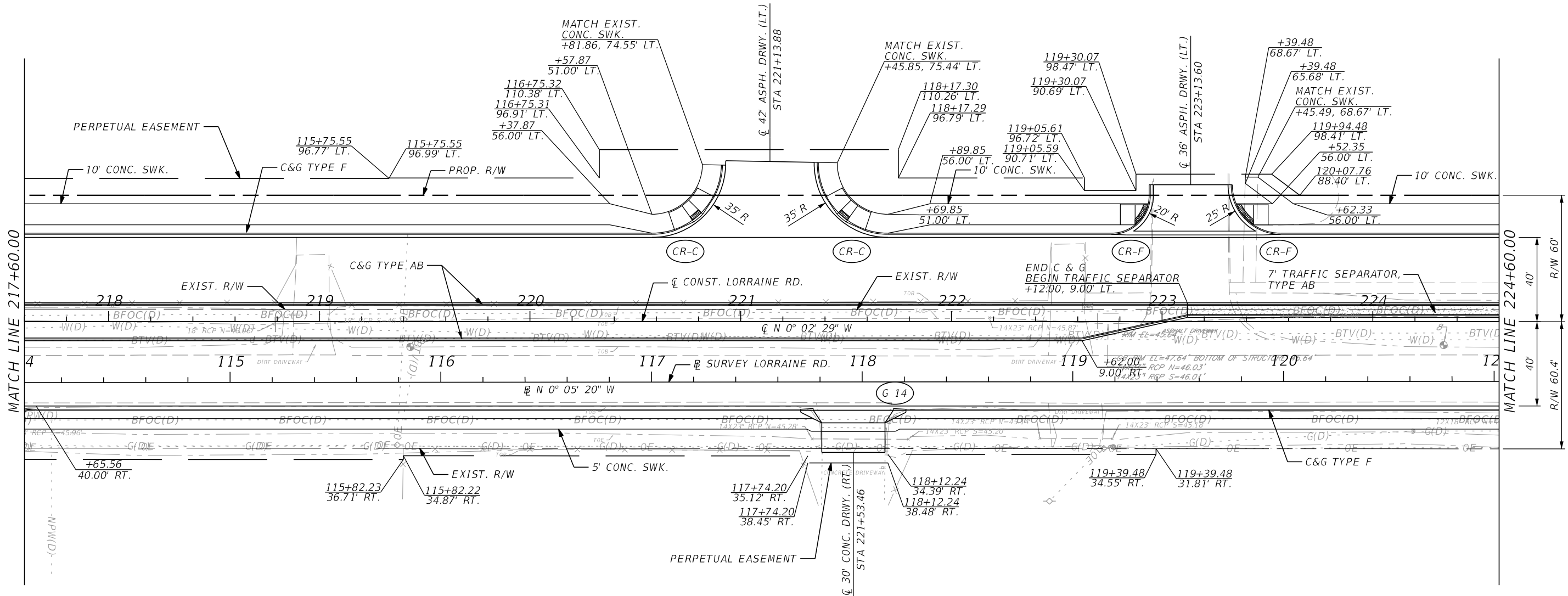
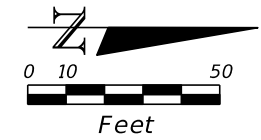


LEGEND	
	DETECTABLE WARNING

No.	REVISIONS	DATE	BY	SCALE	AS NOTED	DATE	11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	SHEET NO. 36
				DESIGNED BY	BLZ					
				DRAWN BY	JMA					
				CHECKED BY	JLS					

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LORRAINE ROAD



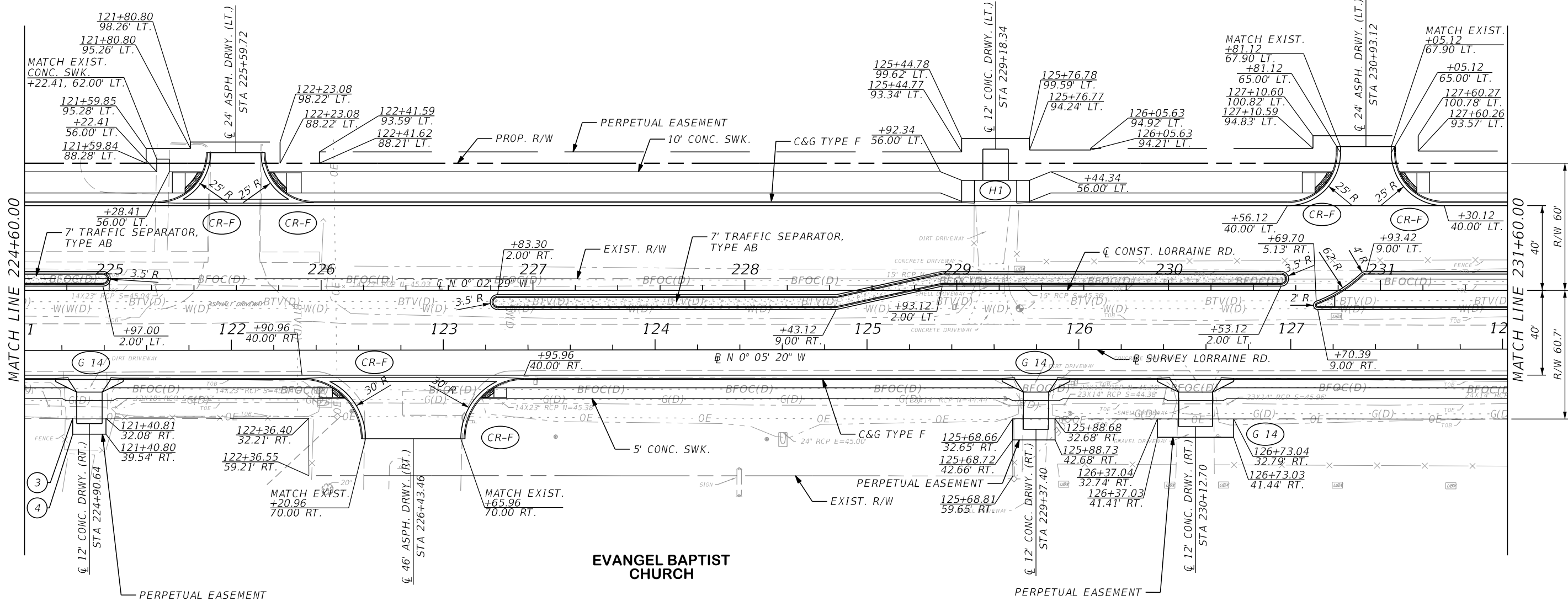
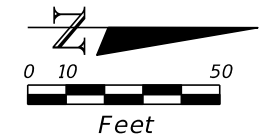
LEGEND

CONCRETE

No.	REVISIONS	DATE	BY	SCALE	AS NOTED	DATE	11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	SHEET NO. 37
				DESIGNED BY	BLZ					
				DRAWN BY	JMA	HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		ROADWAY PLAN (17)		
				CHECKED BY	JLS					

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LORRAINE ROAD



- 3 121+25.07
32.06' RT.
- 4 121+25.06
39.53' RT.

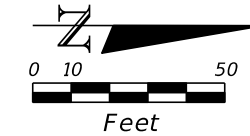
LEGEND

	DETECTABLE WARNING
	CONCRETE

SCALE AS NOTED				DATE 11/2022		DESIGN ENGINEER BRIAN L. ZIMMERMAN		SHEET NO. 38
DESIGNED BY BLZ				PROJECT NO. 6107660		FL. LICENSE NO. 78557		
DRAWN BY JMA				PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS		ROADWAY PLAN (18)
CHECKED BY JLS				PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS		
No.	REVISIONS	DATE	BY	HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		MANATEE COUNTY PUBLIC WORKS		

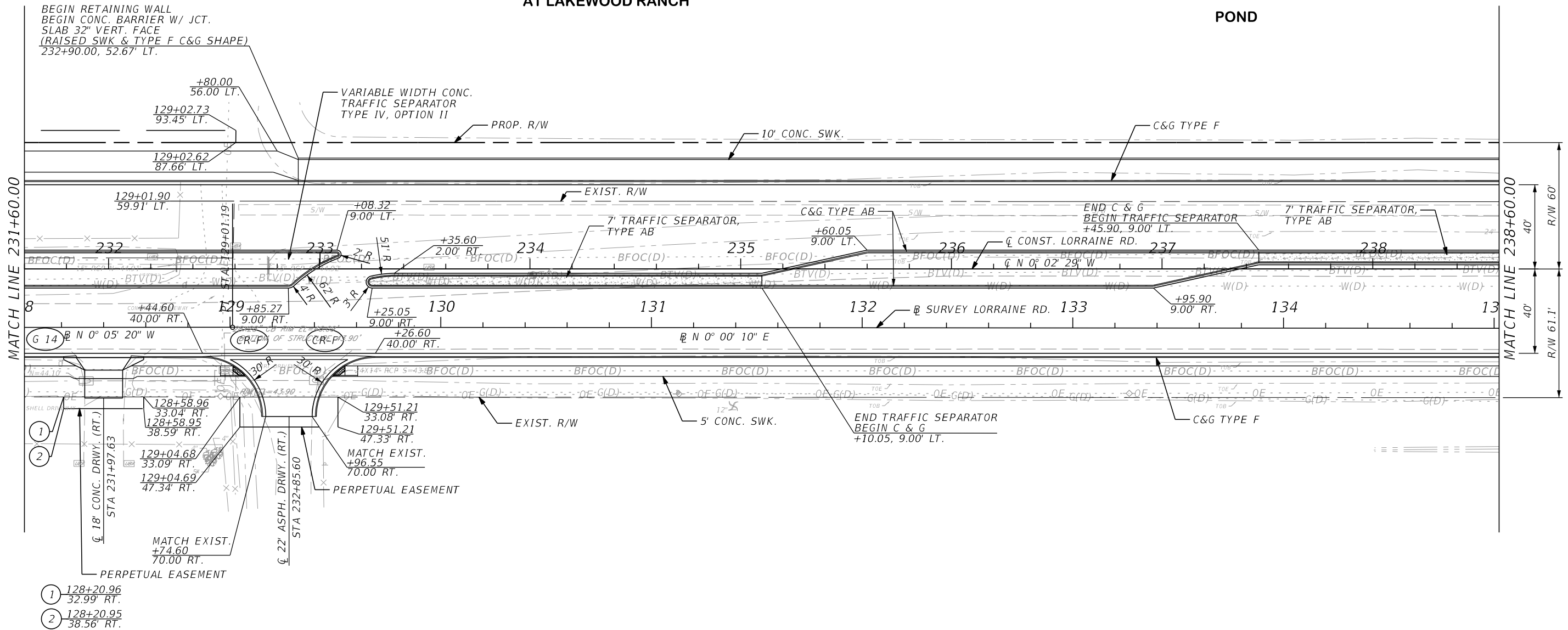
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LORRAINE ROAD



SAVANNA
SUBDIVISION
AT LAKEWOOD RANCH

POND



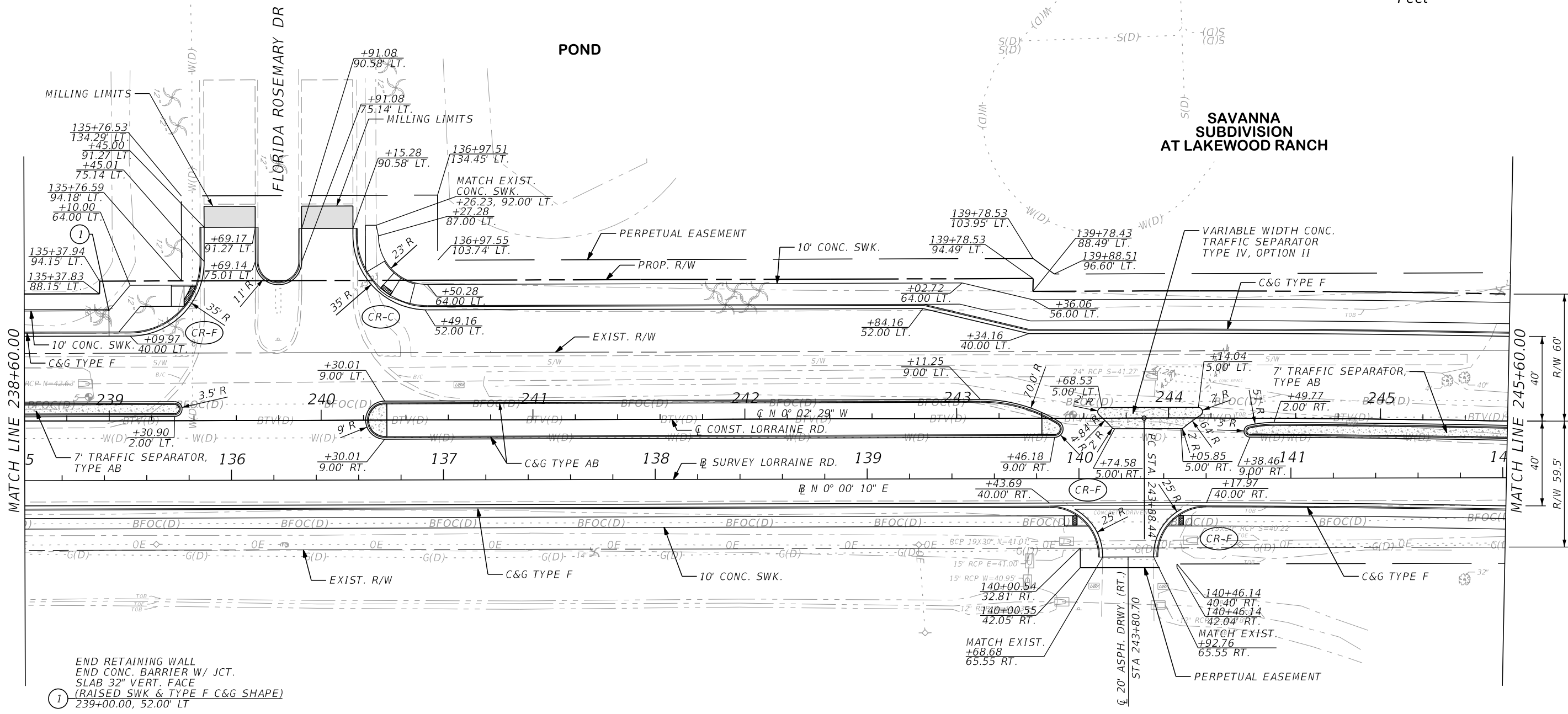
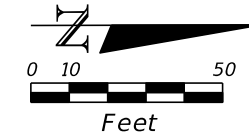
LEGEND

	DETECTABLE WARNING
	CONCRETE

No.	REVISIONS	DATE	BY	SCALE	AS NOTED	DATE	PROJECT NO.	DESIGN ENGINEER	SHEET NO.
				DESIGNED BY	BLZ				
				DRAWN BY	JMA	PROJECT NO.	6107660	FL. LICENSE NO.	ROADWAY PLAN (19)
				CHECKED BY	JLS				

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LORRAINE ROAD

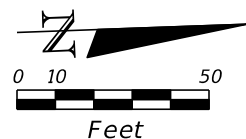
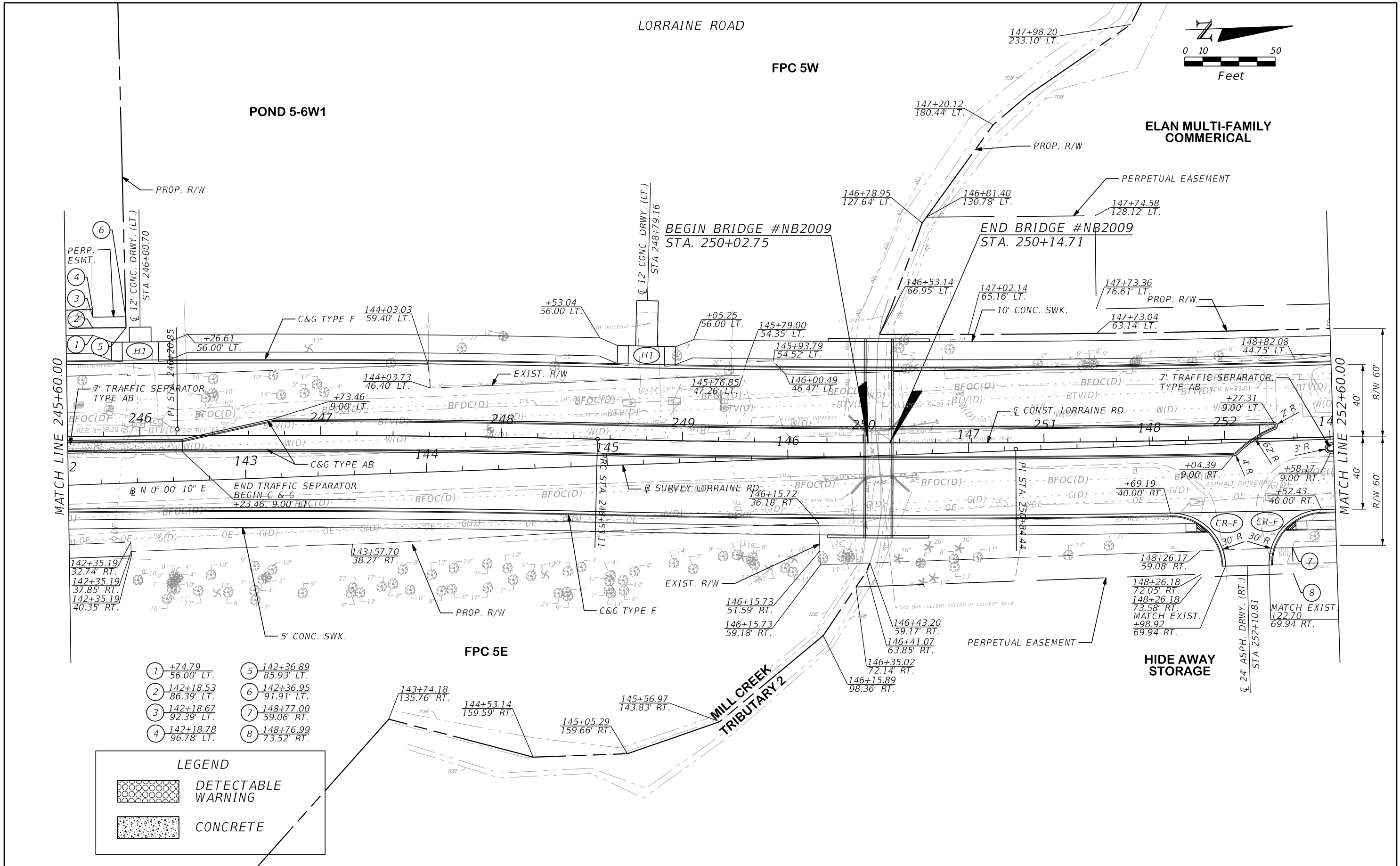


END RETAINING WALL
 END CONC. BARRIER W/ JCT.
 SLAB 32" VERT. FACE
 (RAISED SWK & TYPE F C&G SHAPE)
 1 239+00.00, 52.00' LT

LEGEND	
	MILLING & RESURFACING
	DETECTABLE WARNING
	CONCRETE

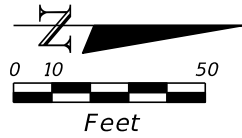
No.	REVISIONS	DATE	BY	SCALE	AS NOTED	DATE	11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	SHEET NO. 40
				DESIGNED BY	BLZ					
				DRAWN BY	JMA					
				CHECKED BY	JLS					

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

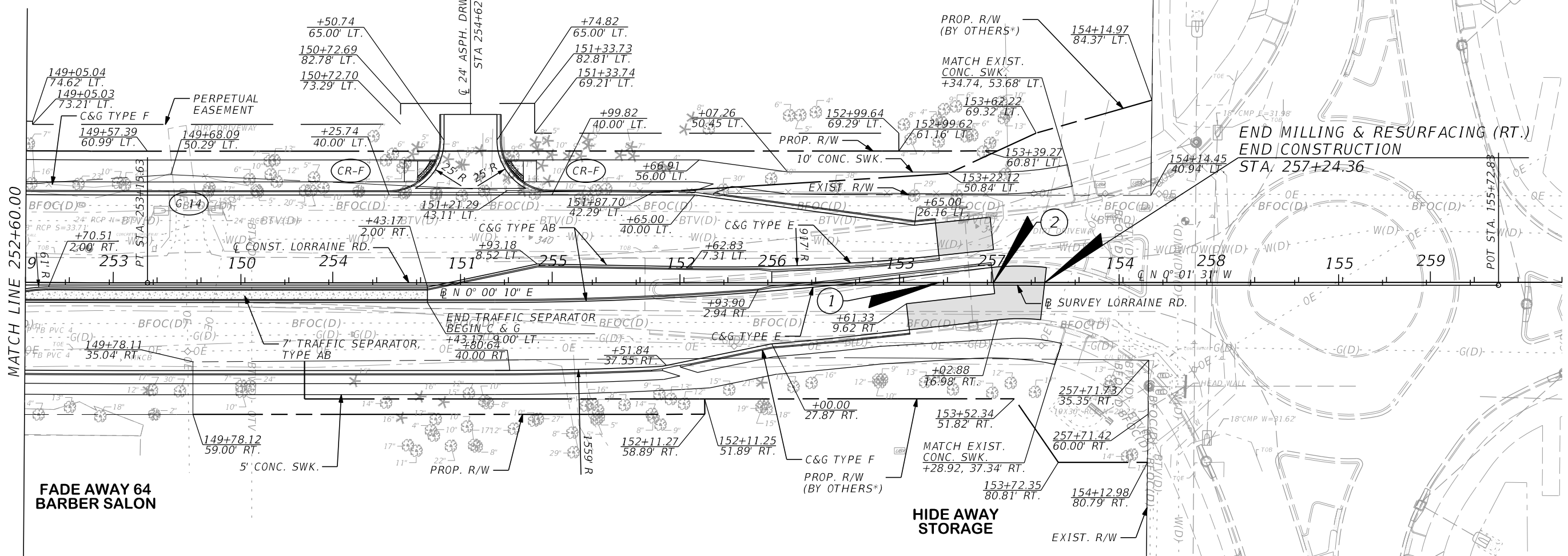
SCALE AS NOTED				DATE 11/2022		DESIGN ENGINEER BRIAN L. ZIMMERMAN		SHEET NO. 41
DESIGNED BY BLZ				PROJECT NO. 6107660		FL. LICENSE NO. 78557		
DRAWN BY JMA				MANATEE COUNTY PUBLIC WORKS		ROADWAY PLAN (21)		
CHECKED BY JLS				HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609				



- ① END FULL DEPTH CONST. (LT.)
BEGIN MILLING & RESURFACING (LT.)
256+76.17
END FULL DEPTH CONST. (RT.)
END PROJECT
END MILLING & RESURFACING (LT.)
- ② BEGIN MILLING & RESURFACING (RT.)
257+01.03

LORRAINE ROAD

ELAN MULTI-FAMILY
COMMERCIAL



MATCH LINE 252+60.00

FADE AWAY 64
BARBER SALON

HIDE AWAY
STORAGE

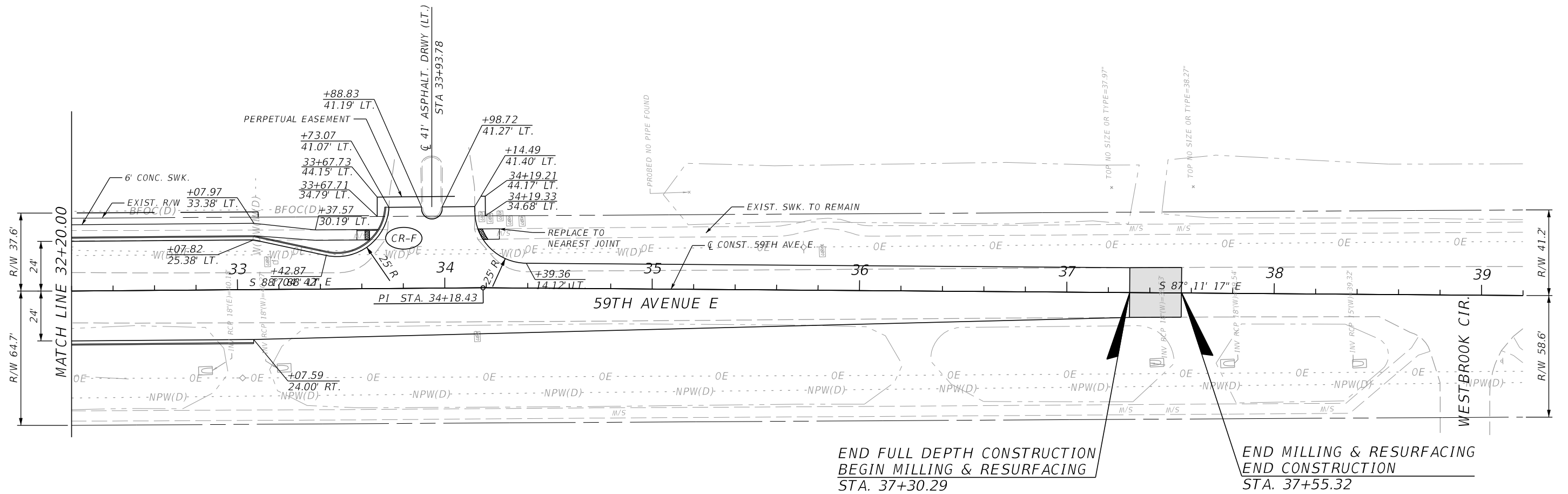
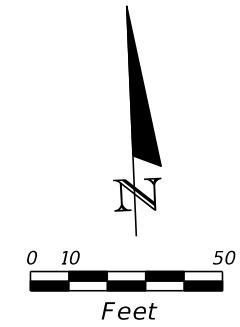
*REFER TO FDOT FPID 196022-6-52-01
STATE ROAD NO. 64 AT LORRAINE RD.

LEGEND	
	MILLING & RESURFACING
	CONCRETE

No.	REVISIONS	DATE	BY	SCALE AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN	ROADWAY PLAN (22)	SHEET NO. 42
				DRAWN BY JMA		PROJECT NO. 6107660		FL. LICENSE NO. 78557		
				CHECKED BY JLS						

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59TH AVENUE E



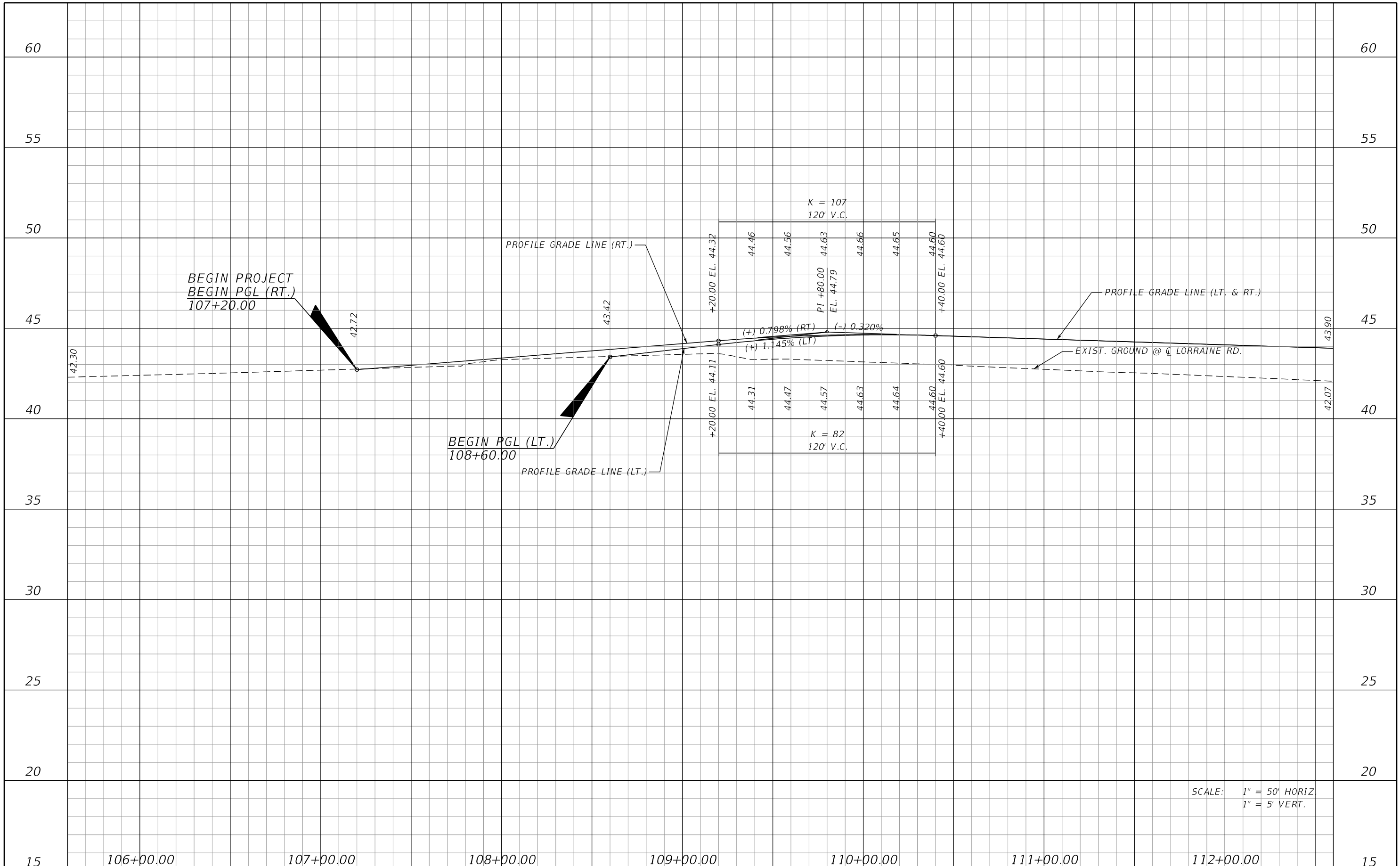
END FULL DEPTH CONSTRUCTION
BEGIN MILLING & RESURFACING
STA. 37+30.29

END MILLING & RESURFACING
END CONSTRUCTION
STA. 37+55.32

LEGEND	
	MILLING & RESURFACING
	DETECTABLE WARNING

No.	REVISIONS	DATE	BY	SCALE AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN	ROADWAY PLAN (23)	SHEET NO.
				DESIGNED BY BLZ		PROJECT NO. 6107660		FL. LICENSE NO. 78557		43
				DRAWN BY JMA						
				CHECKED BY JLS						

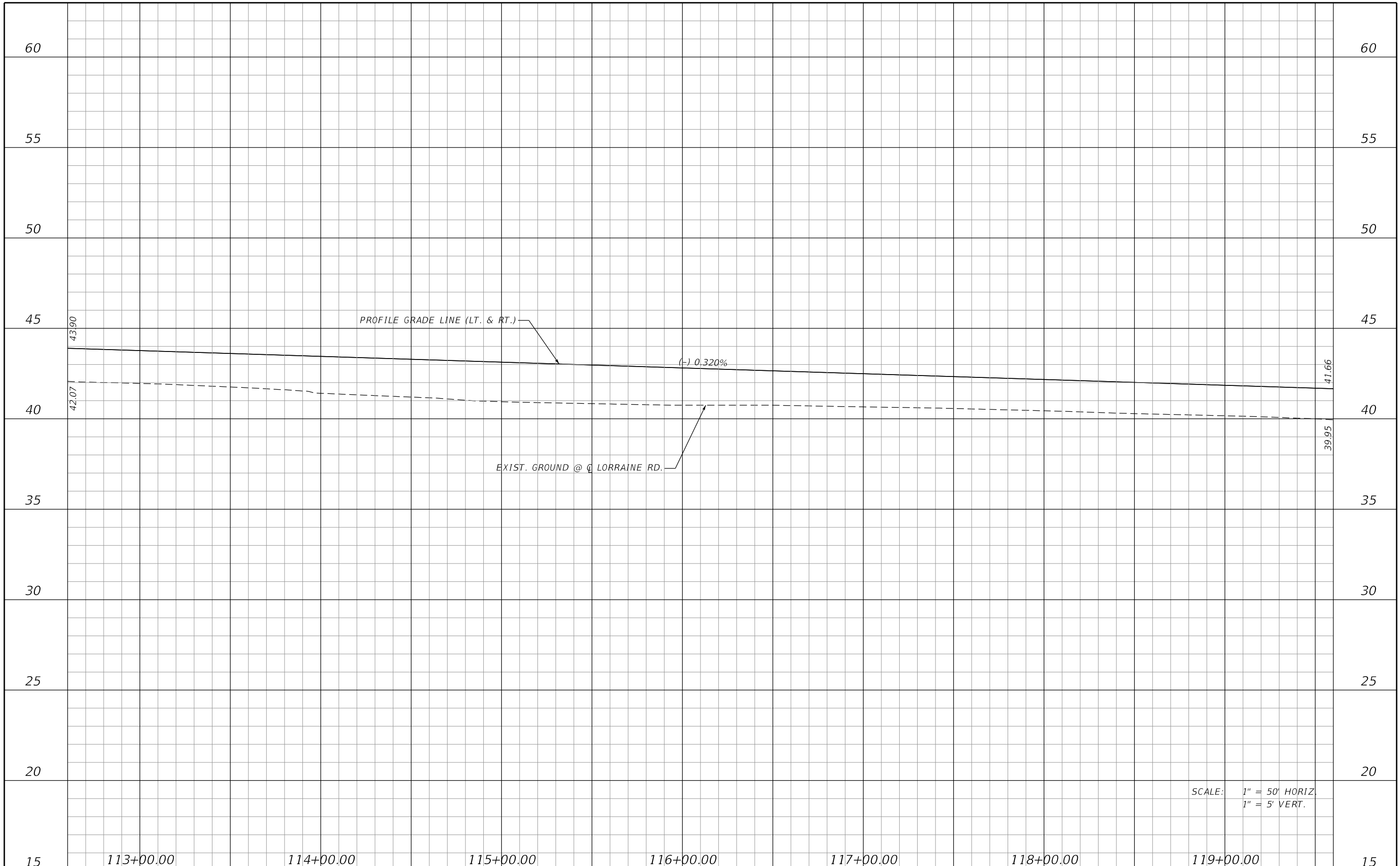
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SCALE: 1" = 50' HORIZ
1" = 5' VERT.

106+00.00		107+00.00		108+00.00		109+00.00		110+00.00		111+00.00		112+00.00		15
SCALE AS NOTED		DESIGNED BY BLZ		DRAWN BY JMA		CHECKED BY JLS		DATE 11/2022		PROJECT NO. 6107660		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		SHEET NO. 44
HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		MANATEE COUNTY PUBLIC WORKS		ROADWAY PROFILE (1)										

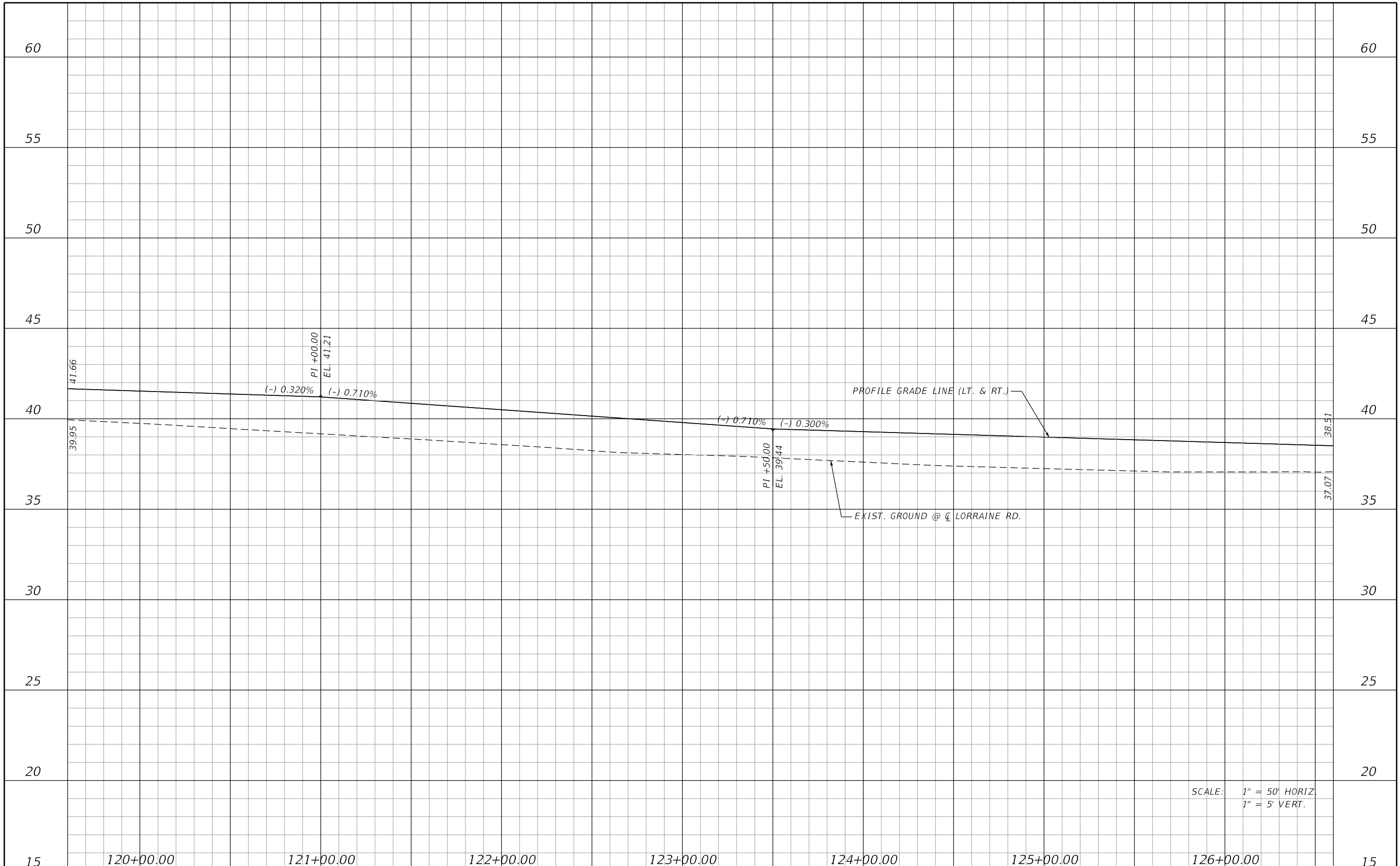
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

113+00.00		114+00.00		115+00.00		116+00.00		117+00.00		118+00.00		119+00.00		15
SCALE AS NOTED		DATE 11/2022		DESIGNED BY BLZ		PROJECT NO. 6107660		DESIGN ENGINEER BRIAN L. ZIMMERMAN		FL. LICENSE NO. 78557		SHEET NO. 45		
DRAWN BY JMA		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		MANATEE COUNTY PUBLIC WORKS		ROADWAY PROFILE (2)								
CHECKED BY JLS														
No.	REVISIONS	DATE	BY											

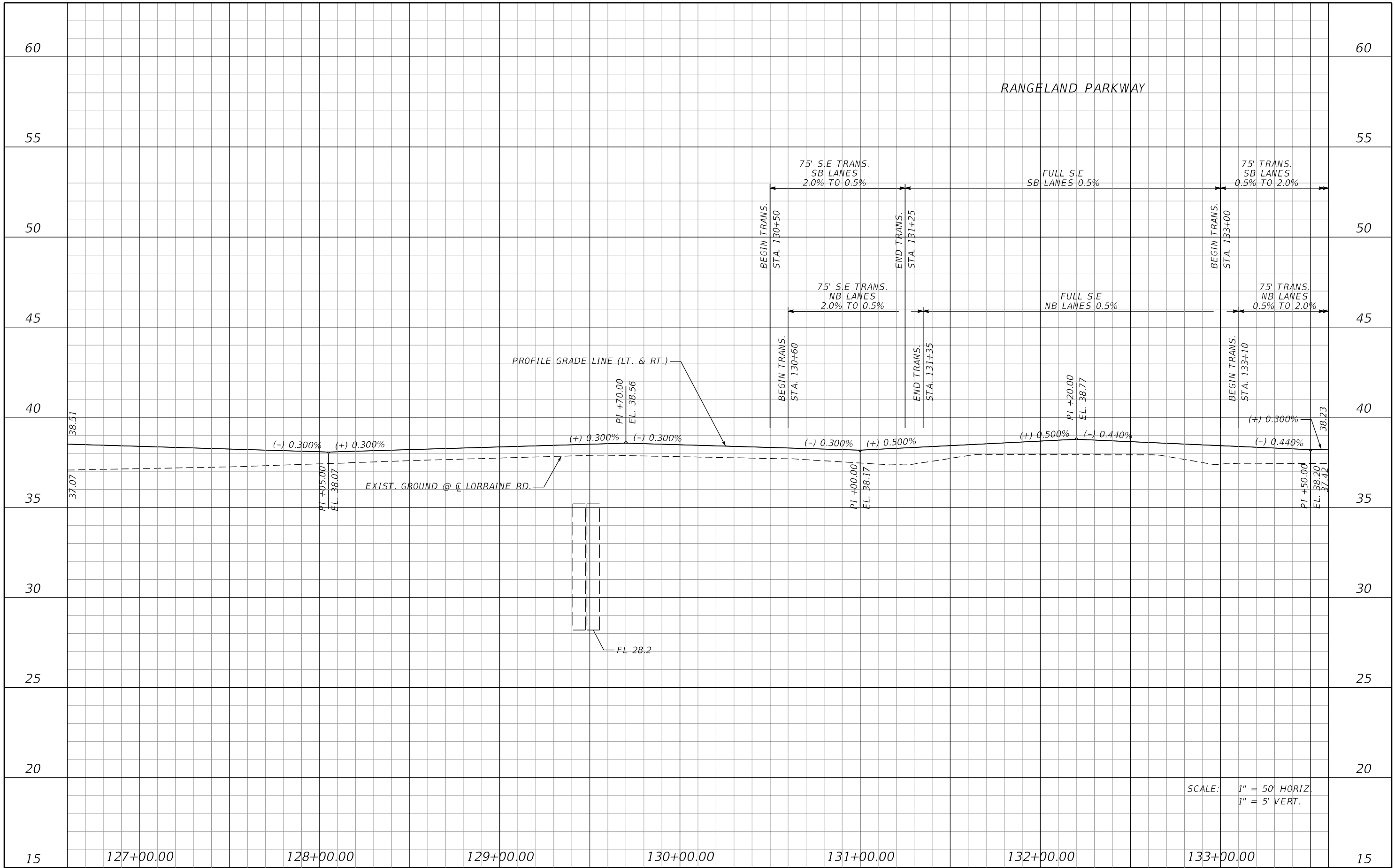
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

No.		REVISIONS		DATE	BY	SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022		PROJECT NO. 6107660	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	MANATEE COUNTY PUBLIC WORKS	ROADWAY PROFILE (3)	SHEET NO. 46
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

SCALE	AS NOTED		
DESIGNED BY	BLZ		
DRAWN BY	JMA		
CHECKED BY	JLS		
No.	REVISIONS	DATE	BY

HDR
HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE
11/2022

PROJECT NO.
6107660



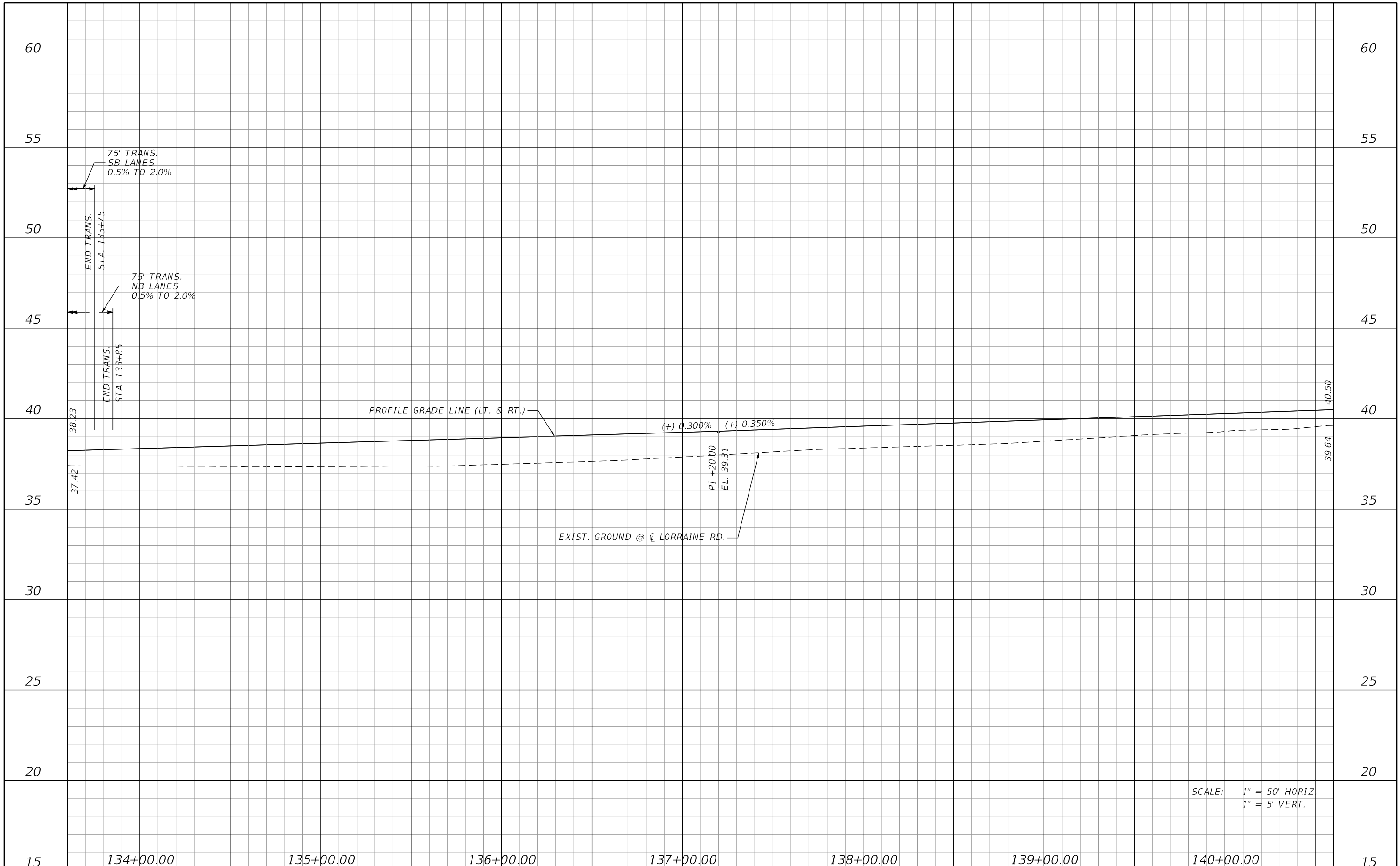
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
BRIAN L. ZIMMERMAN
FL. LICENSE NO.
78557

ROADWAY PROFILE (4)

SHEET NO.
47

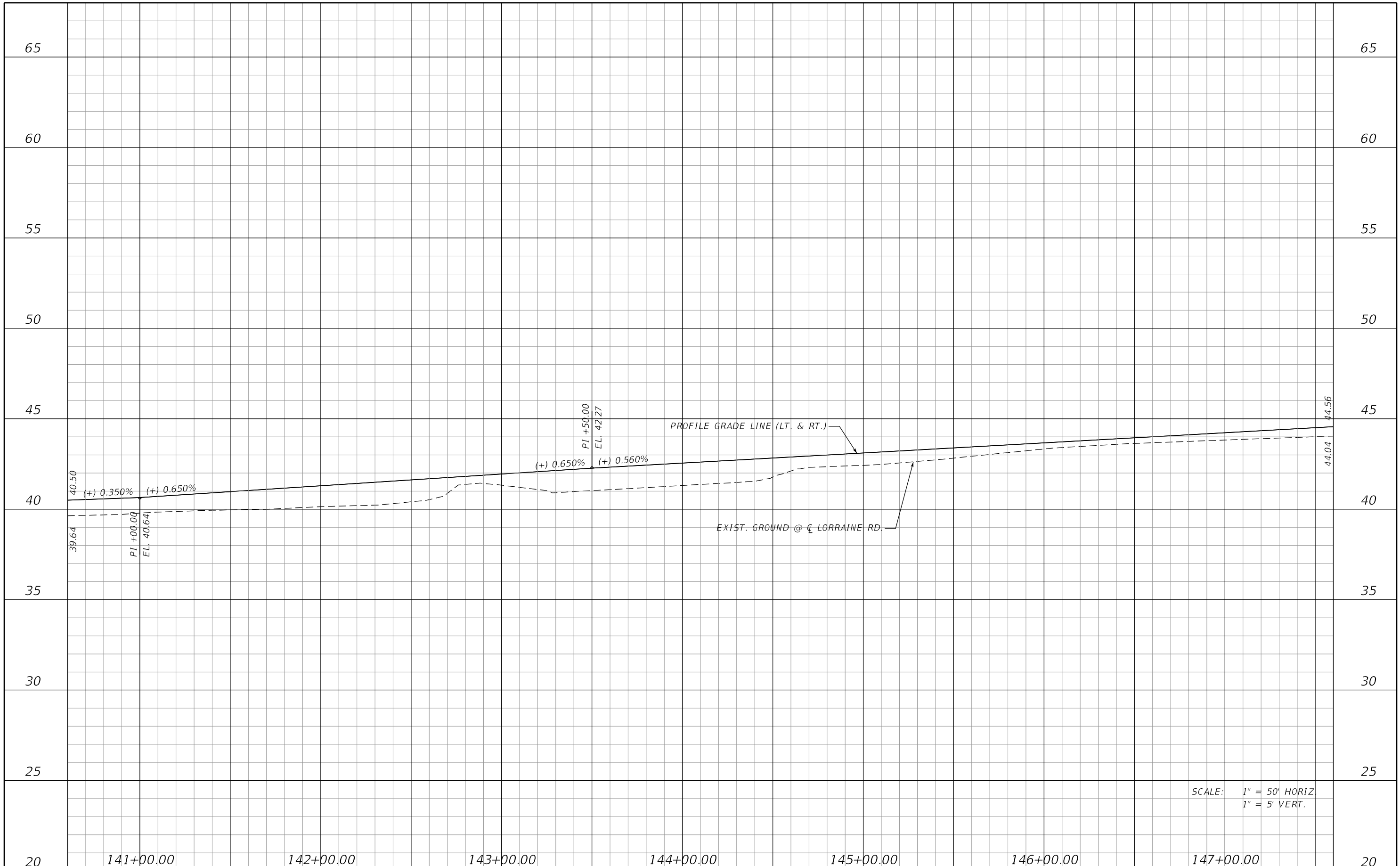
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

134+00.00		135+00.00		136+00.00		137+00.00		138+00.00		139+00.00		140+00.00		15
SCALE AS NOTED		DESIGNED BY BLZ		DRAWN BY JMA		CHECKED BY JLS		DATE 11/2022		PROJECT NO. 6107660		DESIGN ENGINEER BRIAN L. ZIMMERMAN		SHEET NO. 48
HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		MANATEE COUNTY PUBLIC WORKS		FL. LICENSE NO. 78557		ROADWAY PROFILE (5)								

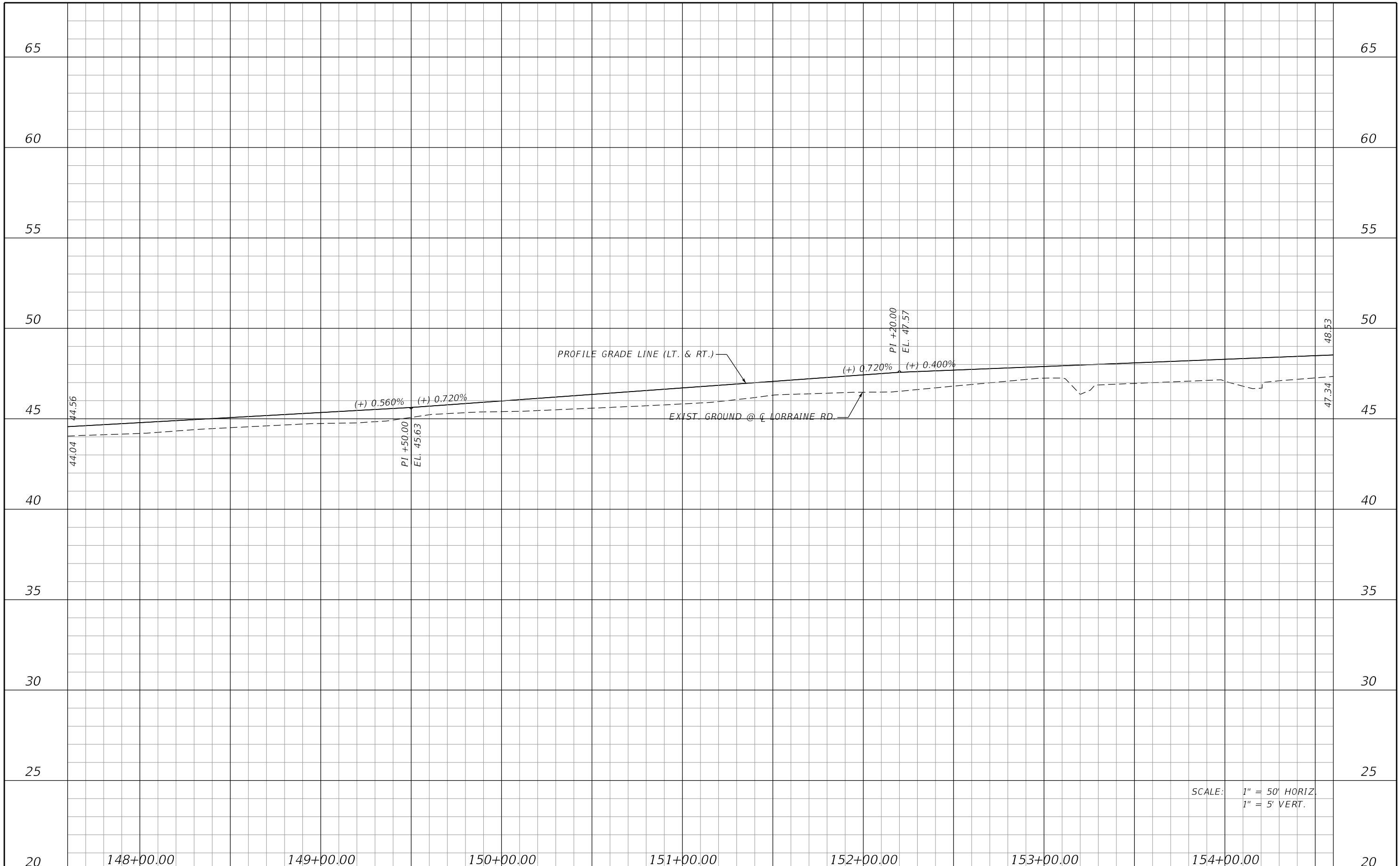
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

141+00.00		142+00.00		143+00.00		144+00.00		145+00.00		146+00.00		147+00.00		20
SCALE AS NOTED		DESIGNED BY BLZ		DRAWN BY JMA		CHECKED BY JLS		DATE 11/2022		PROJECT NO. 6107660		DESIGN ENGINEER BRIAN L. ZIMMERMAN		SHEET NO. 49
HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		MANATEE COUNTY PUBLIC WORKS		FL. LICENSE NO. 78557		ROADWAY PROFILE (6)								

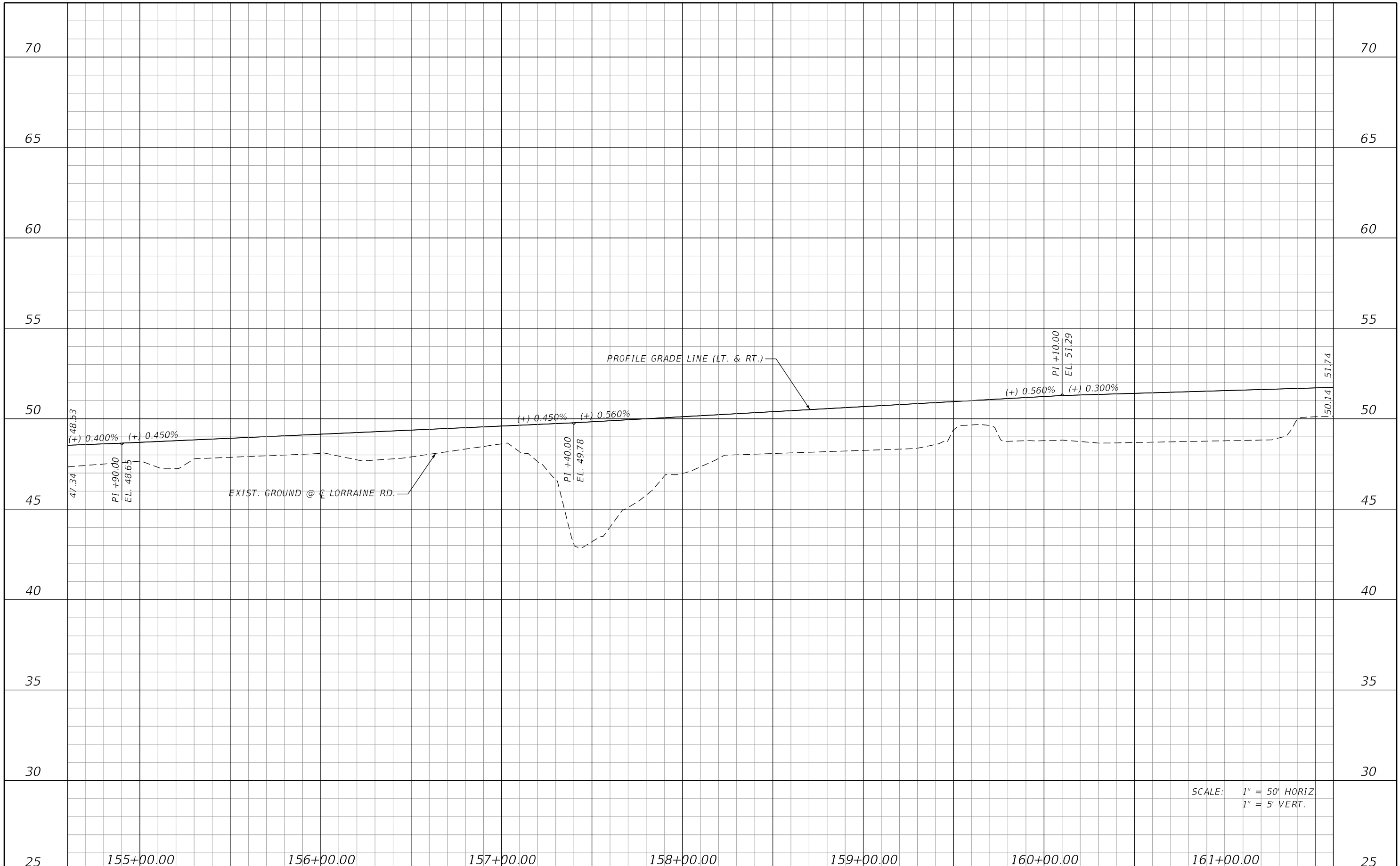
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

No.		REVISIONS		DATE	BY	SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022	PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	ROADWAY PROFILE (7)	SHEET NO. 50
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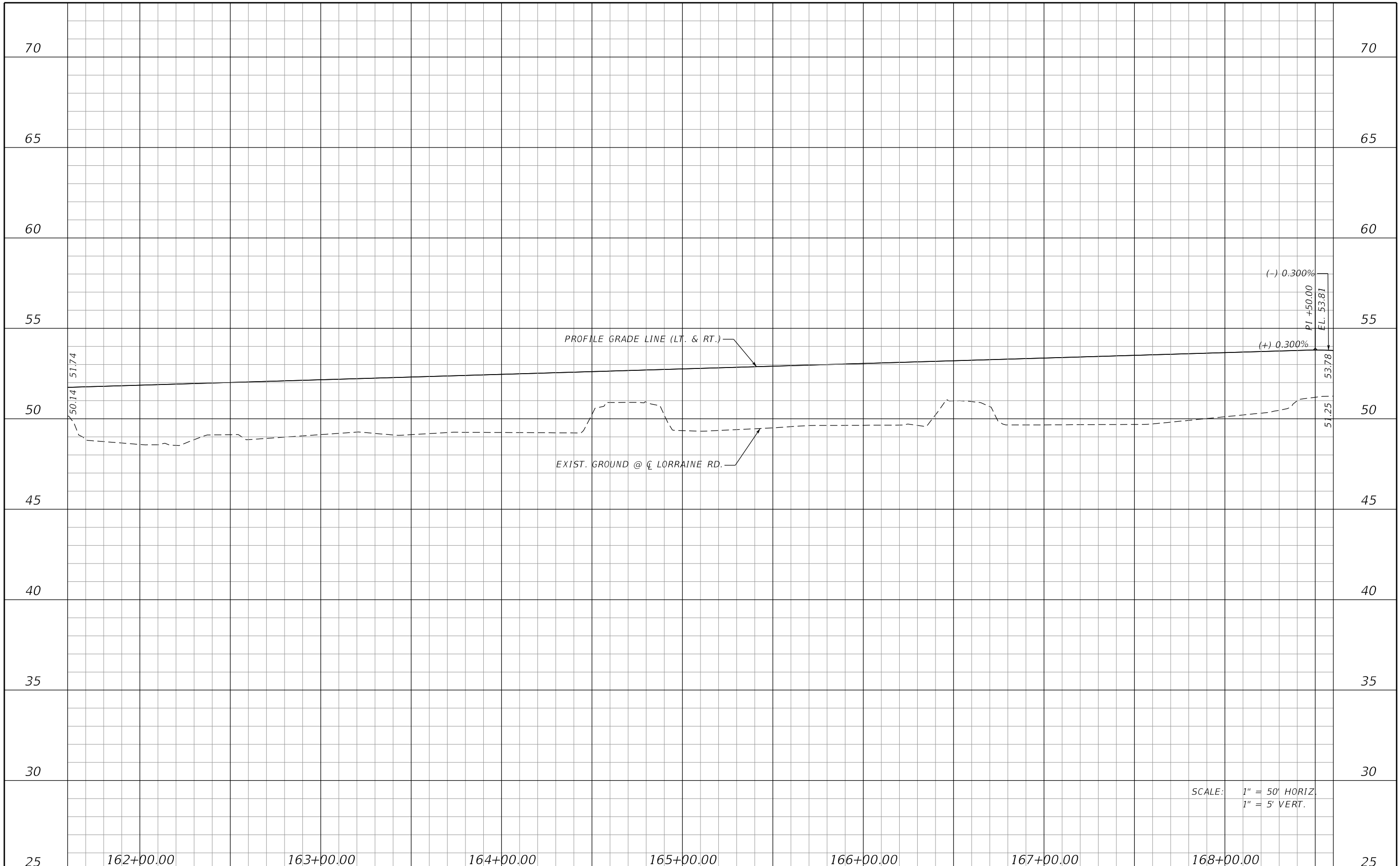
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

No.		REVISIONS		DATE	BY	SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022	PROJECT NO. 6107660	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	SHEET NO. 51
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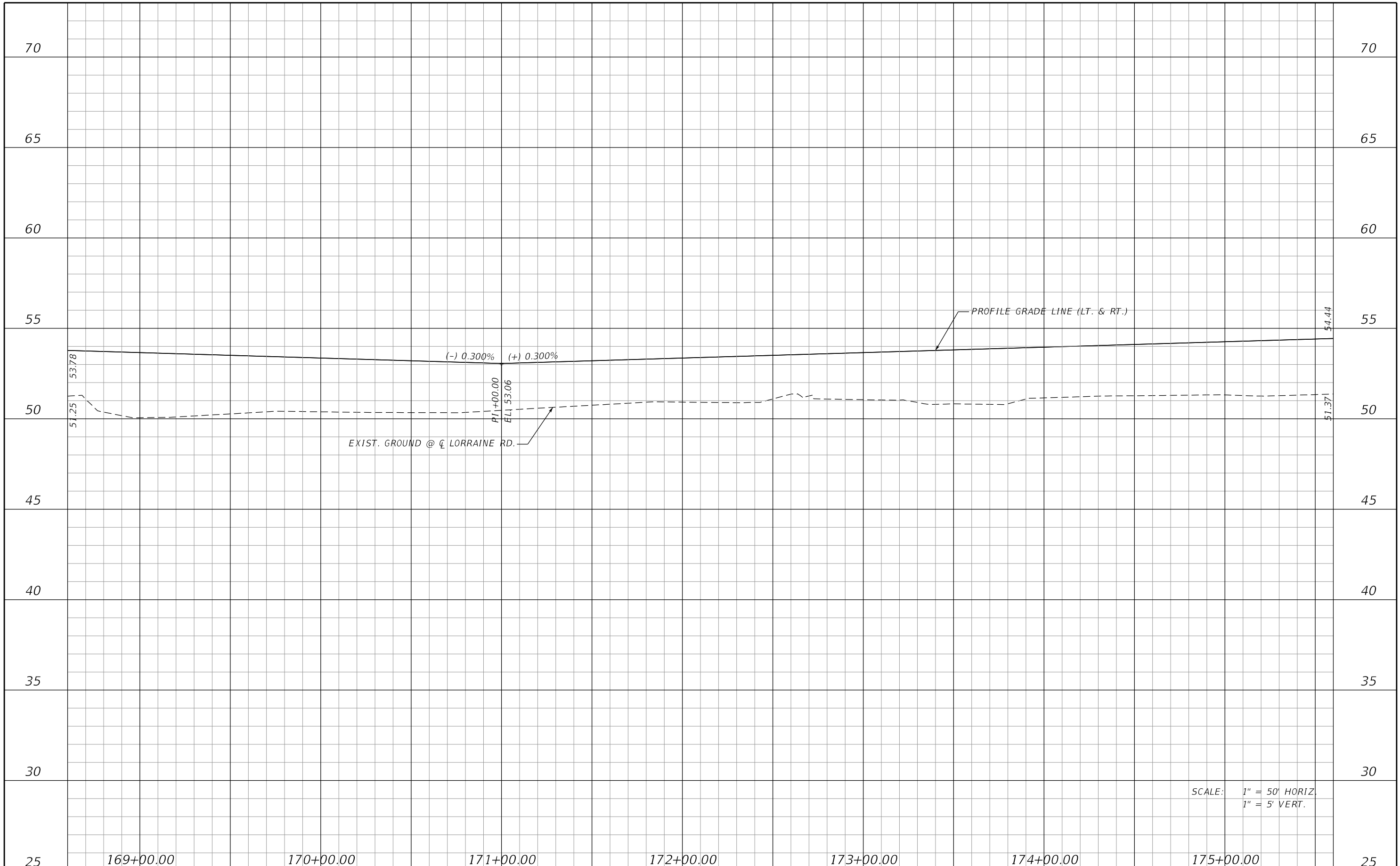
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





SCALE: 1" = 50' HORIZ
1" = 5' VERT.

No.		REVISIONS		DATE	BY	SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022	PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	ROADWAY PROFILE (9)	SHEET NO. 52
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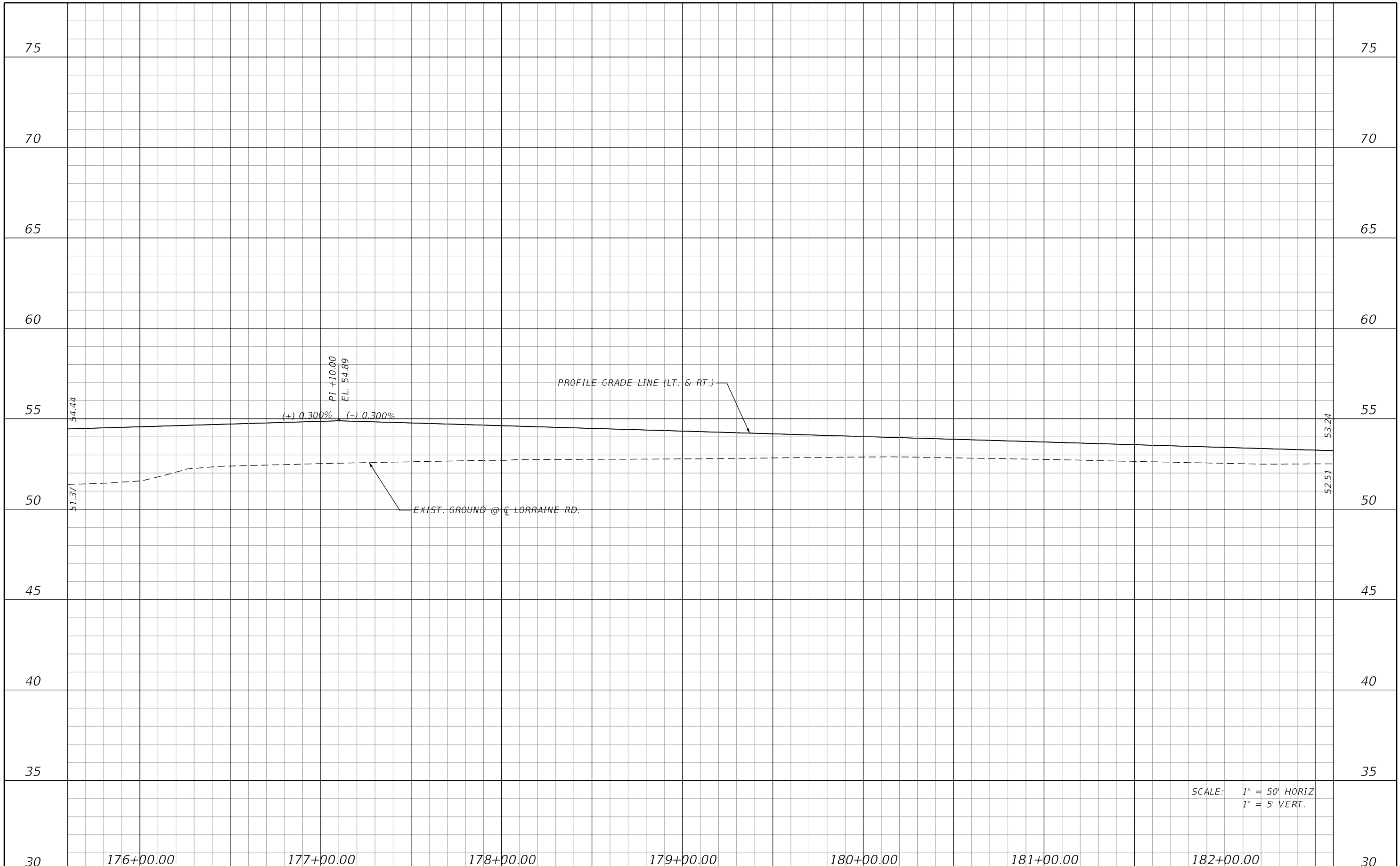
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

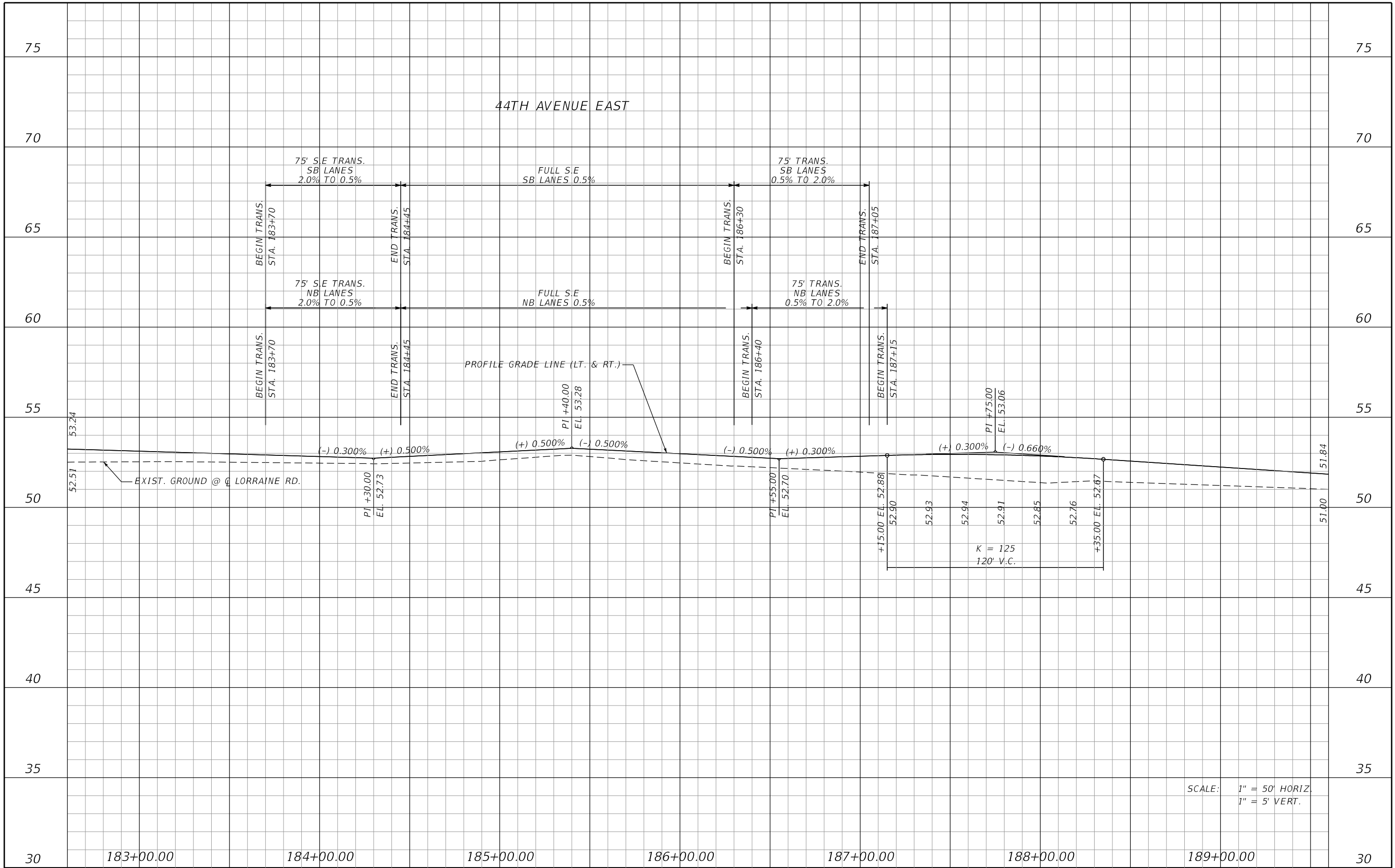
No.		REVISIONS		DATE	BY	SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6107660	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	ROADWAY PROFILE (10)	SHEET NO. 53
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SCALE AS NOTED		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN	ROADWAY PROFILE (11)	SHEET NO. 54
DESIGNED BY BLZ			PROJECT NO. 6107660		FL. LICENSE NO. 78557		
DRAWN BY JMA							
CHECKED BY JLS							
No.	REVISIONS	DATE	BY				

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



44TH AVENUE EAST

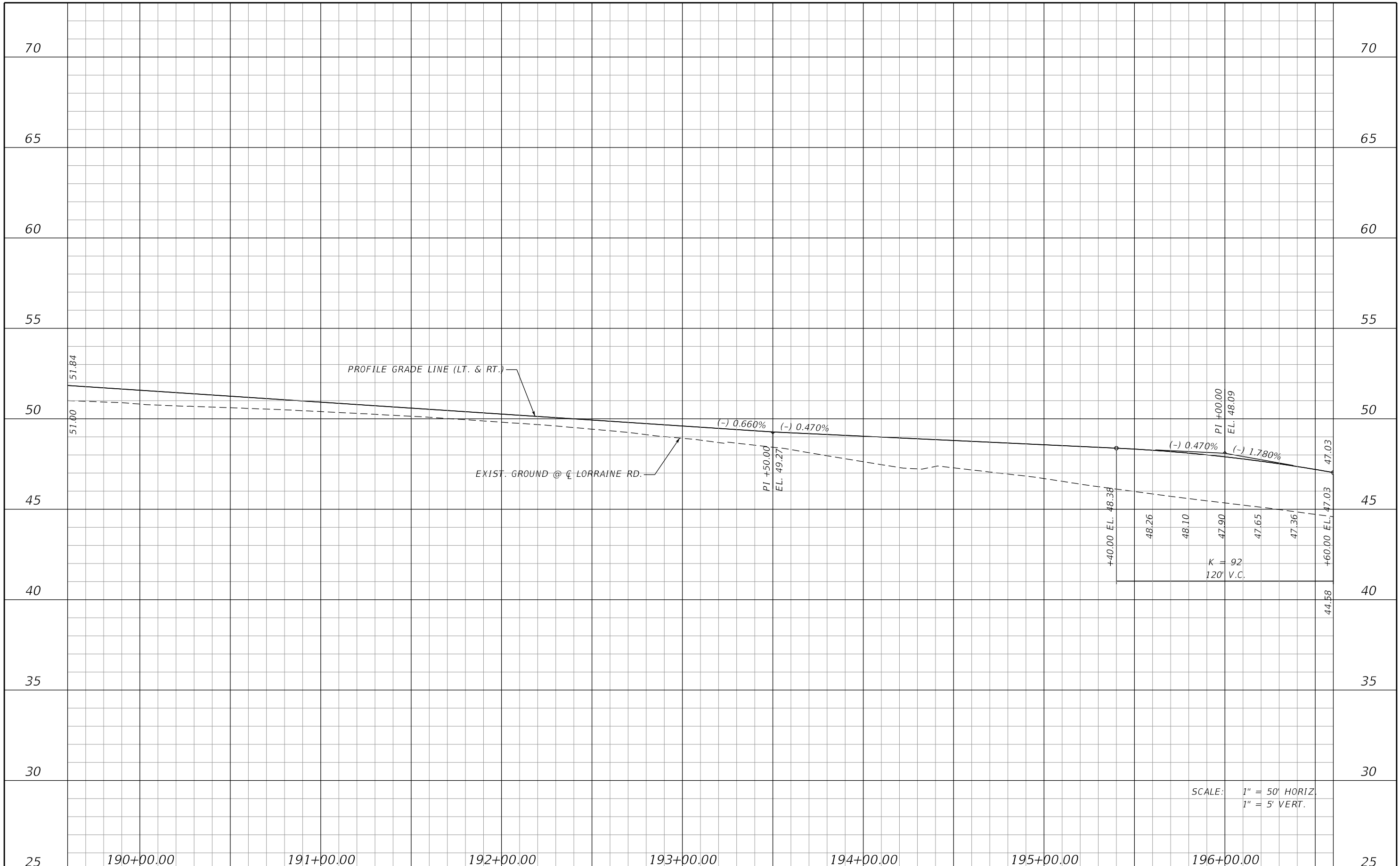
PROFILE GRADE LINE (LT. & RT.)

EXIST. GROUND @ LORRAINE RD.

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

183+00.00		184+00.00		185+00.00		186+00.00		187+00.00		188+00.00		189+00.00		30
No.	REVISIONS	DATE	BY	SCALE	AS NOTED	DATE	11/2022	DESIGN ENGINEER	BRIAN L. ZIMMERMAN	FL. LICENSE NO.	78557	SHEET NO.		55
				DESIGNED BY	BLZ	PROJECT NO.	6107660	MANATEE COUNTY PUBLIC WORKS		ROADWAY PROFILE (12)				
				DRAWN BY	JMA	HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		MANATEE COUNTY FLORIDA						
				CHECKED BY	JLS									

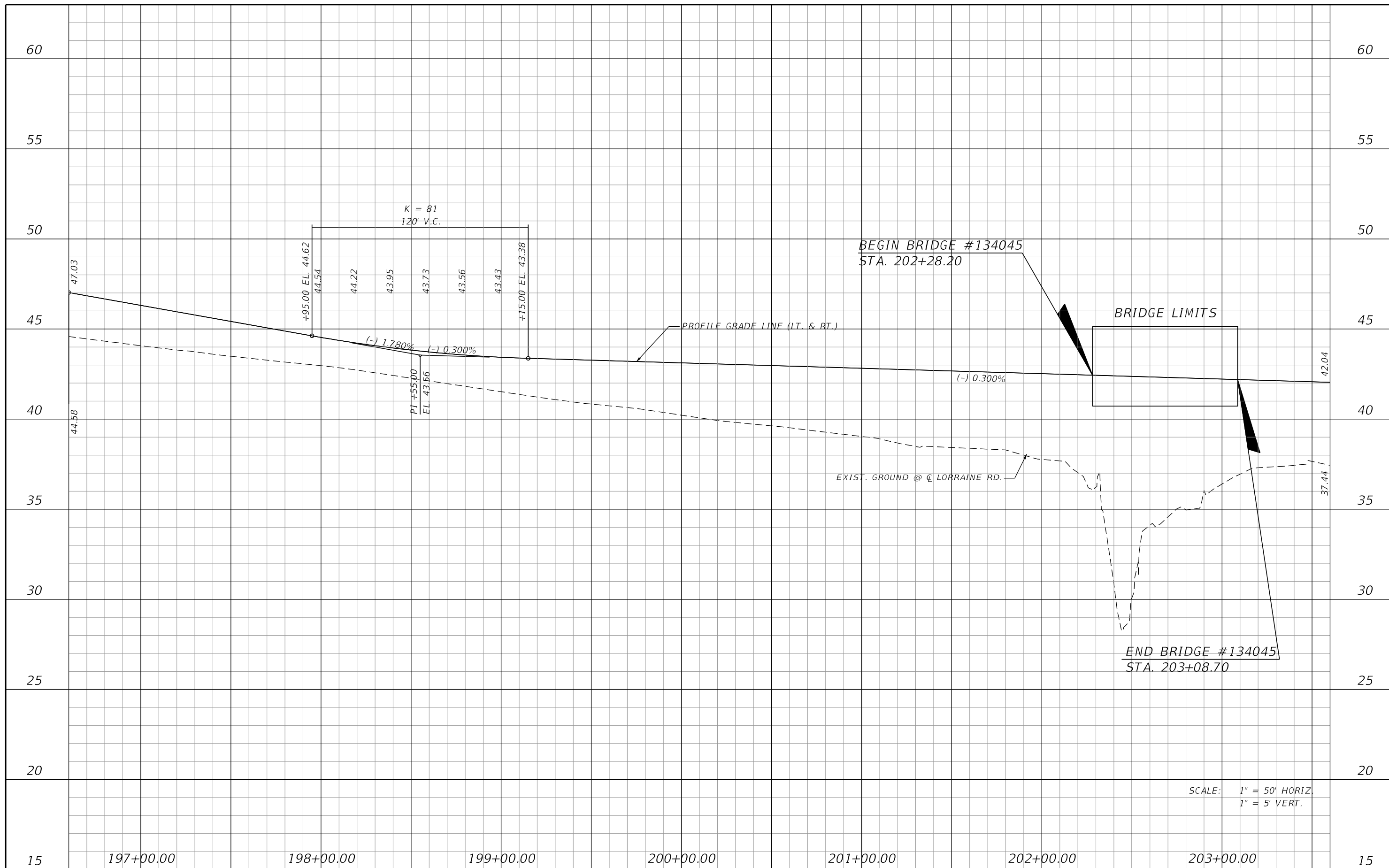
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

No.		REVISIONS		DATE	BY	HDR HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	ROADWAY PROFILE (13)	SHEET NO. 56
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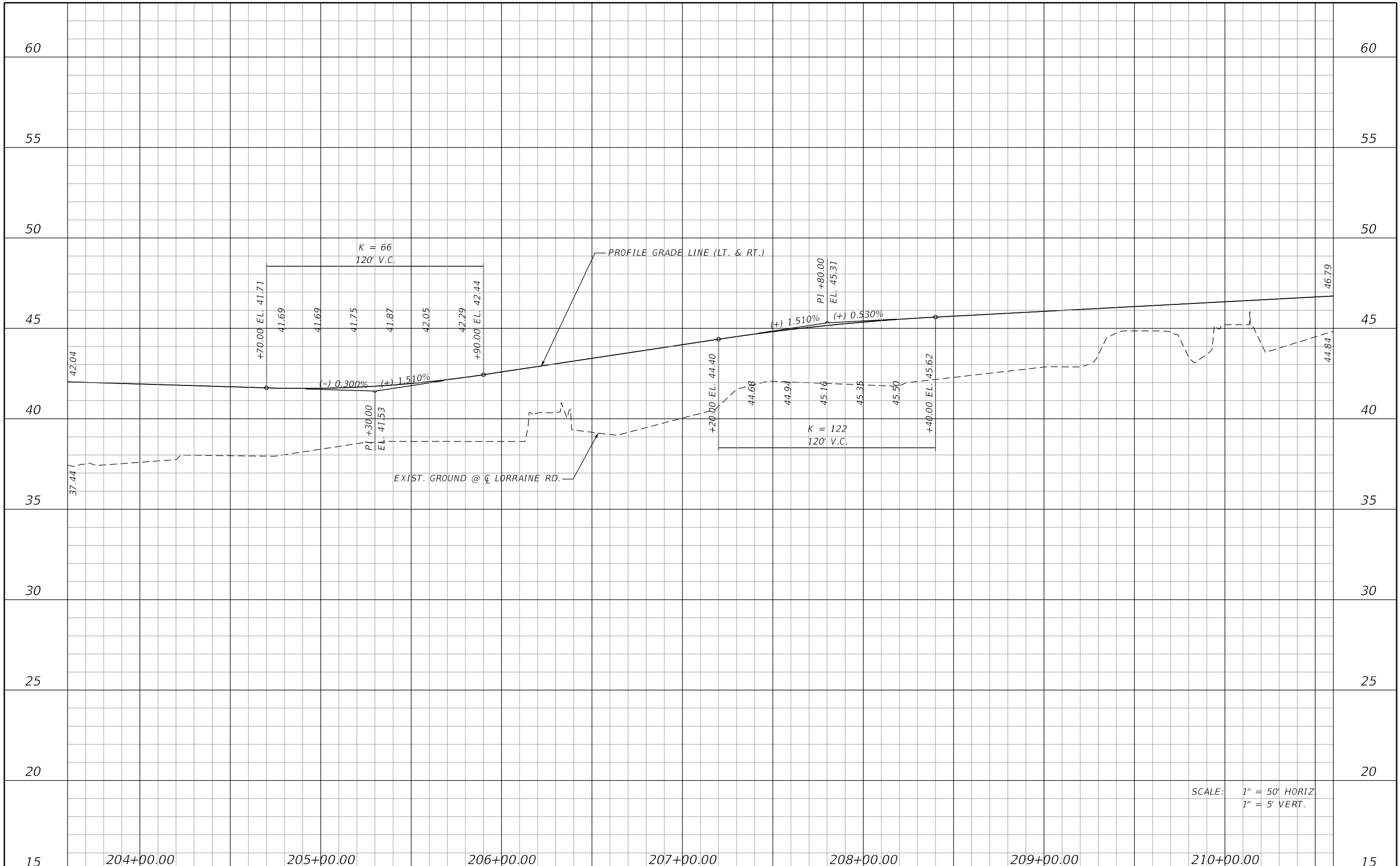
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SCALE: 1" = 50' HORIZ
1" = 5' VERT.

No.		REVISIONS		DATE	BY	SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022	PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	ROADWAY PROFILE (14)	SHEET NO. 57
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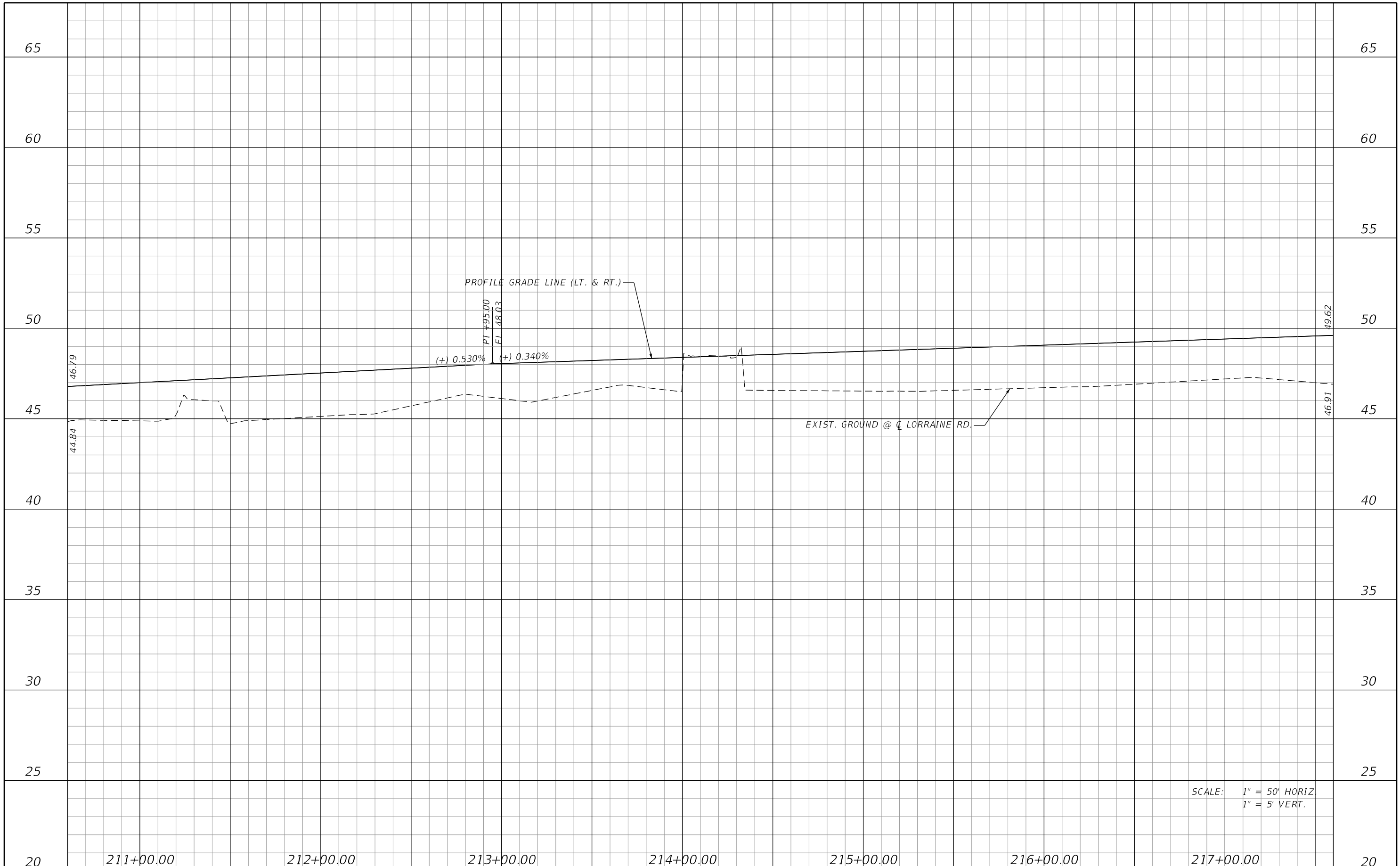
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

15	204+00.00	205+00.00	206+00.00	207+00.00	208+00.00	209+00.00	210+00.00	15	
SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022 PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	
								SHEET NO. 58	

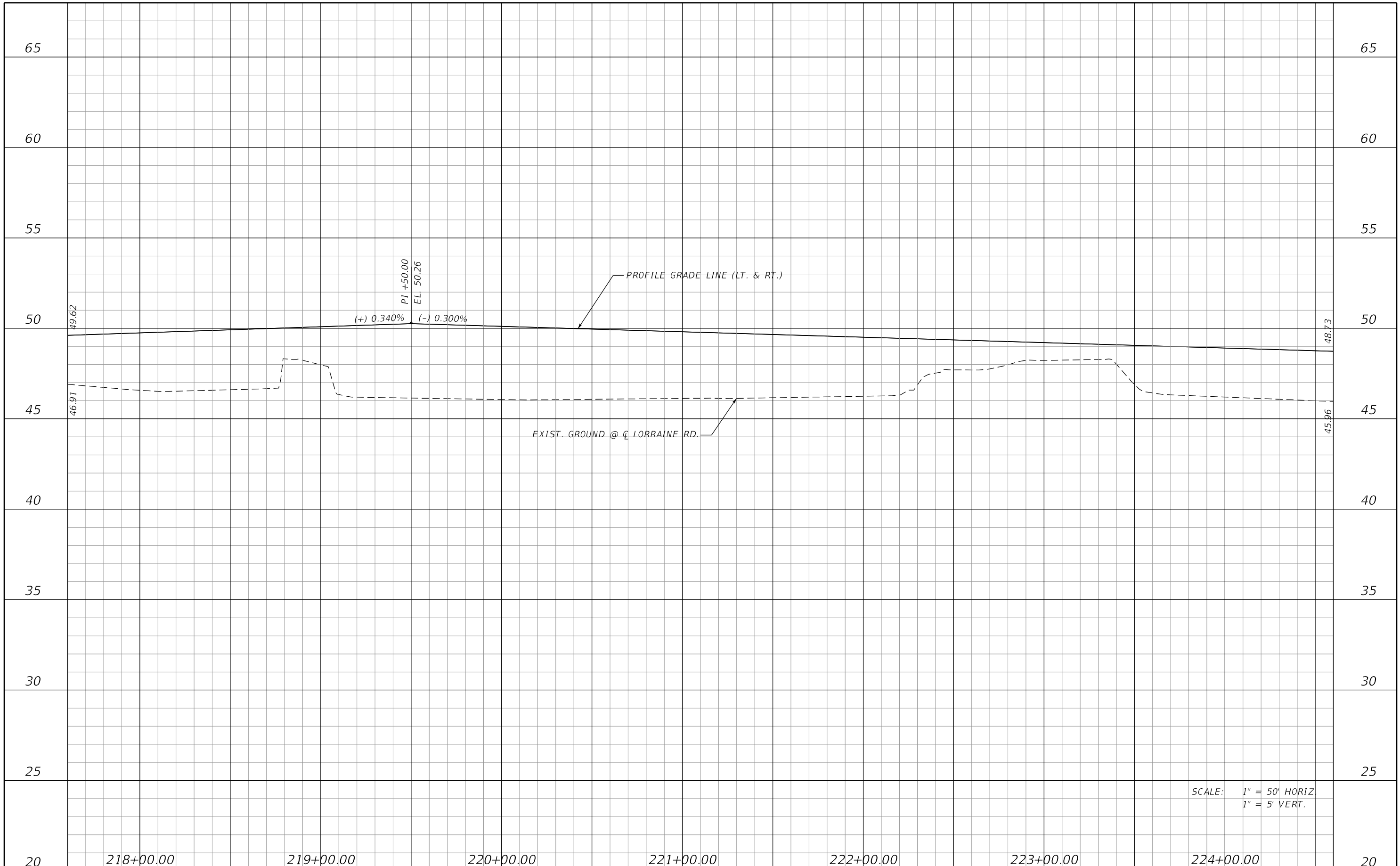
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

No.		REVISIONS		DATE	BY	SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	SHEET NO. 59
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

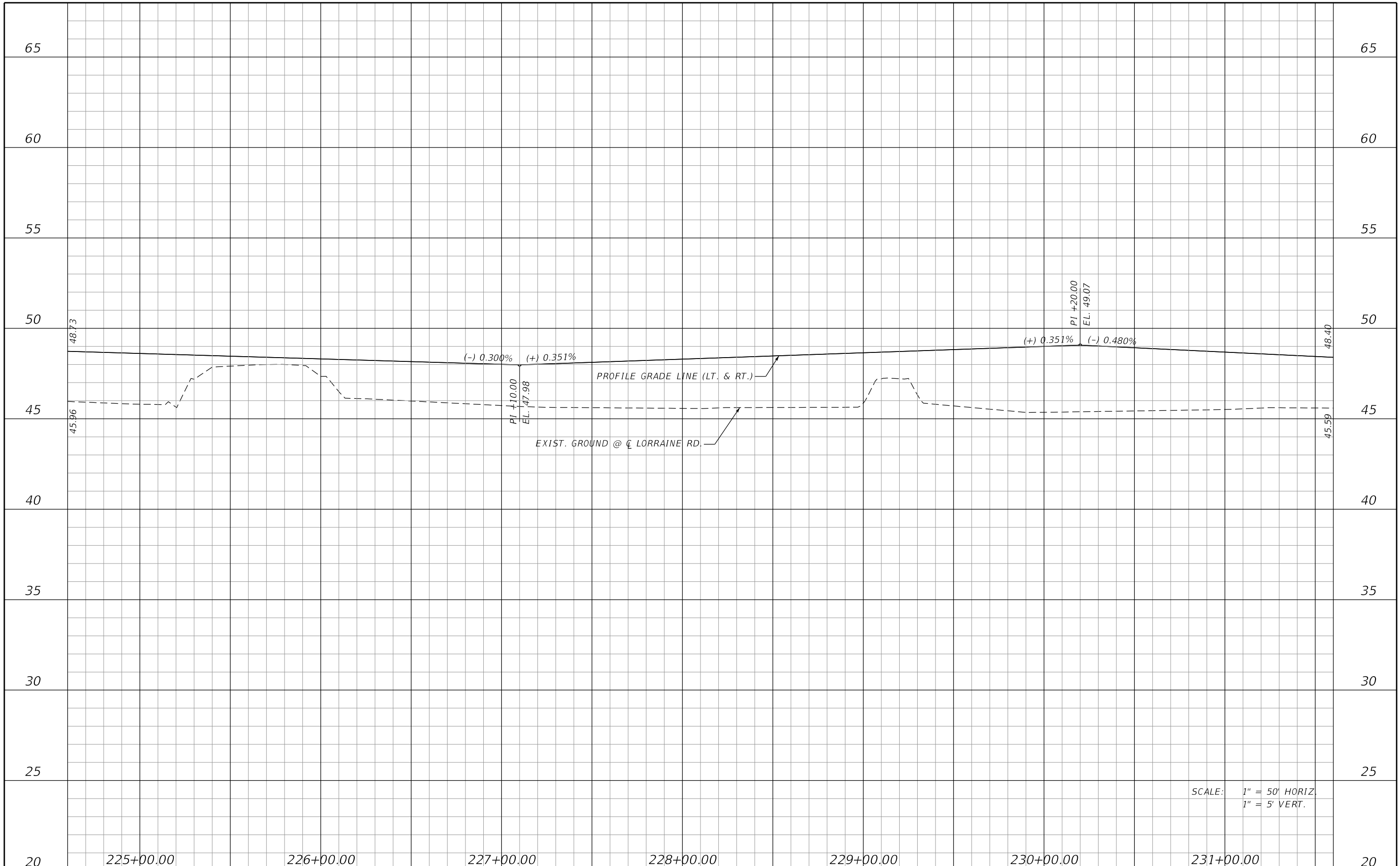
218+00.00		219+00.00		220+00.00		221+00.00		222+00.00		223+00.00		224+00.00		20	
No.		REVISIONS		DATE		BY		SCALE		AS NOTED		DESIGNED BY		BLZ	
												DRAWN BY		JMA	
												CHECKED BY		JLS	
												DATE		11/2022	
												PROJECT NO.		6107660	
												DESIGN ENGINEER		BRIAN L. ZIMMERMAN	
												FL. LICENSE NO.		78557	
												SHEET NO.		60	

HDR
HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

Manatee County
MANATEE COUNTY
PUBLIC WORKS

ROADWAY PROFILE (17)

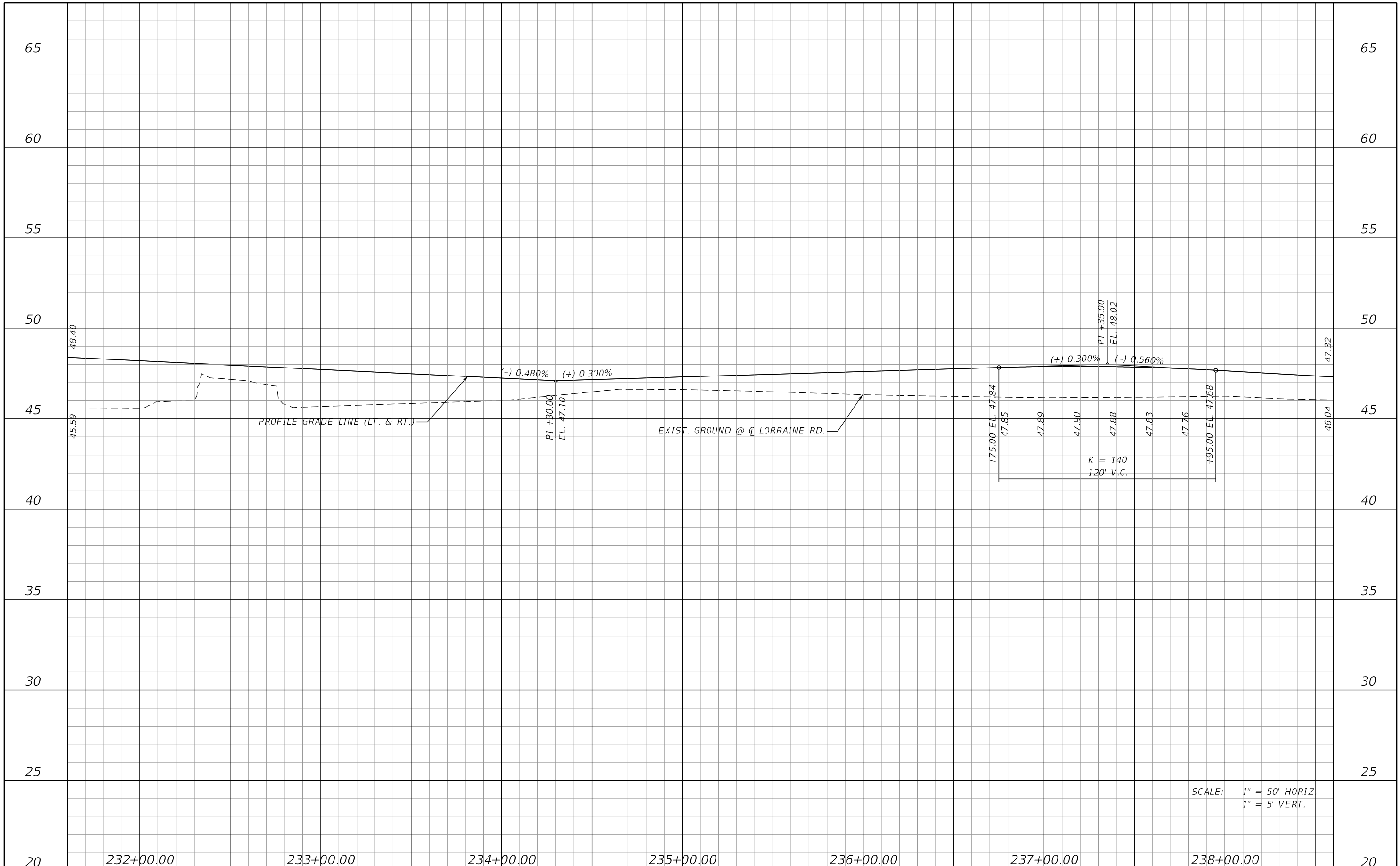
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

No.		REVISIONS		DATE	BY	SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	SHEET NO. 61
225+00.00		226+00.00		227+00.00		228+00.00		229+00.00		230+00.00		231+00.00	

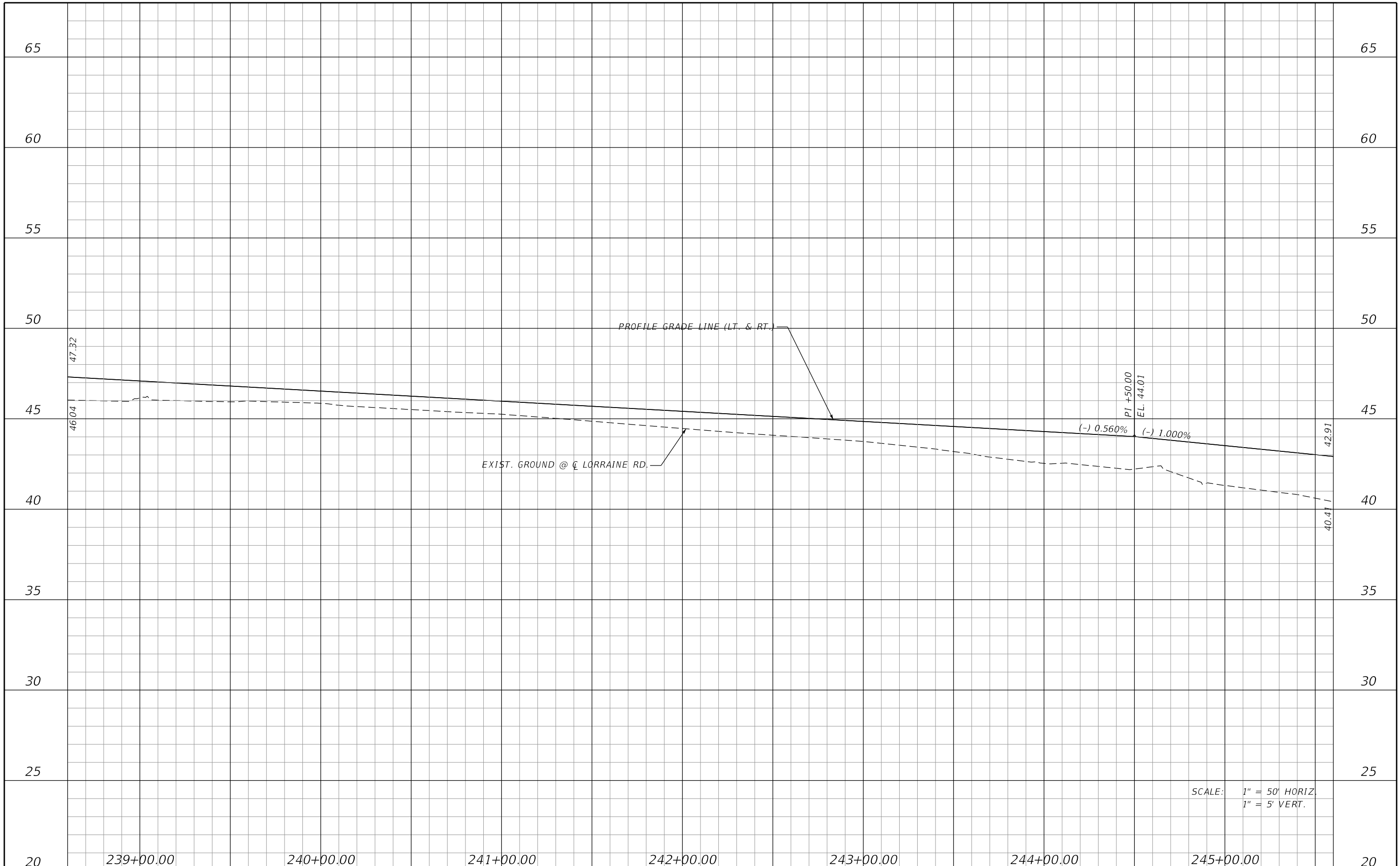
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

No.		REVISIONS		DATE	BY	SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022		PROJECT NO. 6107660	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	MANATEE COUNTY PUBLIC WORKS	ROADWAY PROFILE (19)	SHEET NO. 62
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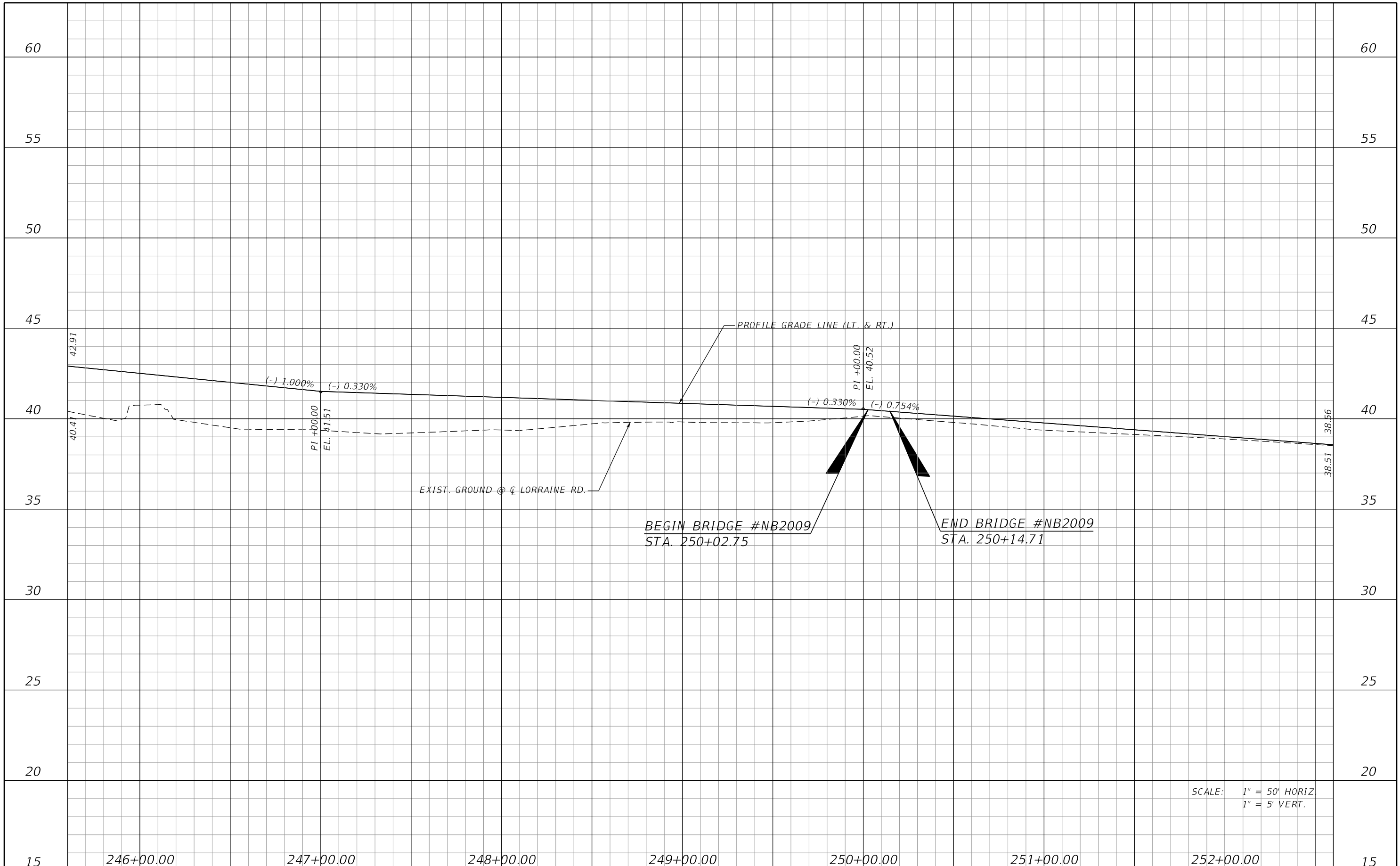
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

No.		REVISIONS		DATE	BY	SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022	PROJECT NO. 6107660	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	ROADWAY PROFILE (20)	SHEET NO. 63
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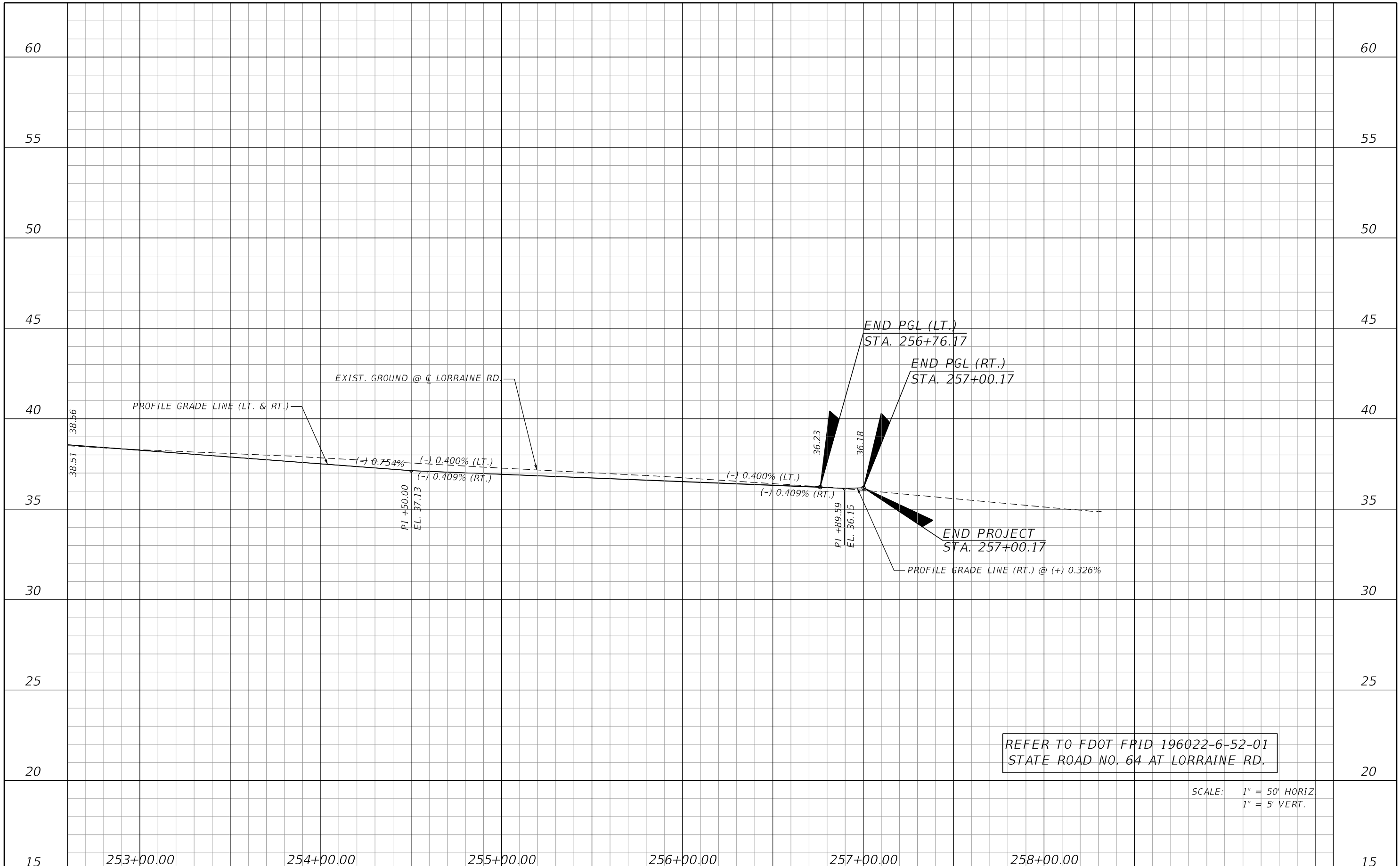
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

15		246+00.00	247+00.00	248+00.00	249+00.00	250+00.00	251+00.00	252+00.00	15	
SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022 PROJECT NO. 6107660		 MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		SHEET NO. 64
No.	REVISIONS	DATE	BY							

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



SCALE	AS NOTED		
DESIGNED BY	BLZ		
DRAWN BY	JMA		
CHECKED BY	JLS		
No.	REVISIONS	DATE	BY

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE
11/2022

PROJECT NO.
6107660

Manatee County
 FLORIDA

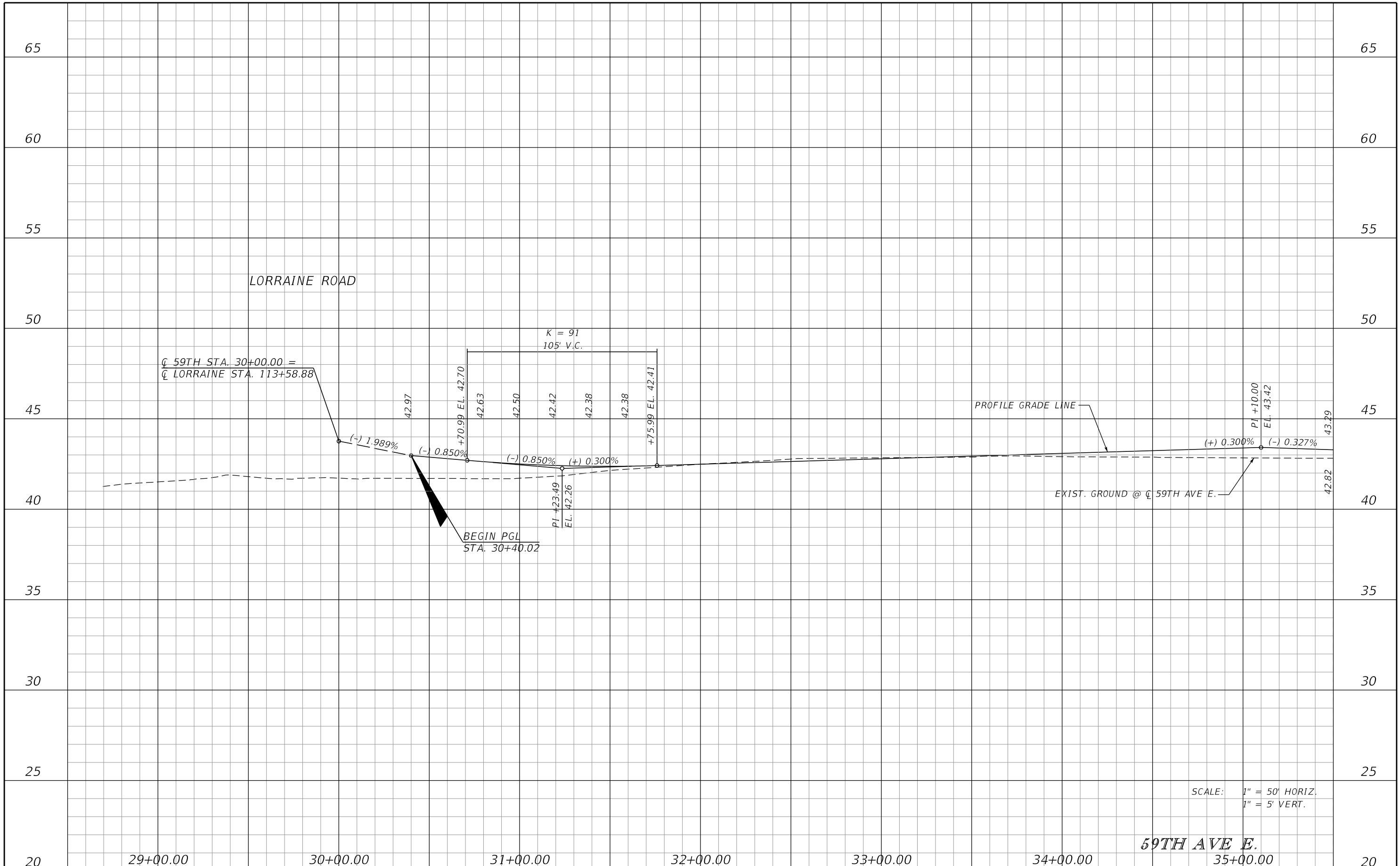
**MANATEE COUNTY
 PUBLIC WORKS**

DESIGN ENGINEER
BRIAN L. ZIMMERMAN
 FL. LICENSE NO.
78557

ROADWAY PROFILE (22)

SHEET NO.
65

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



LORRAINE ROAD

CL 59TH STA. 30+00.00 =
CL LORRAINE STA. 113+58.88

K = 91
105' V.C.

PROFILE GRADE LINE

EXIST. GROUND @ CL 59TH AVE E.

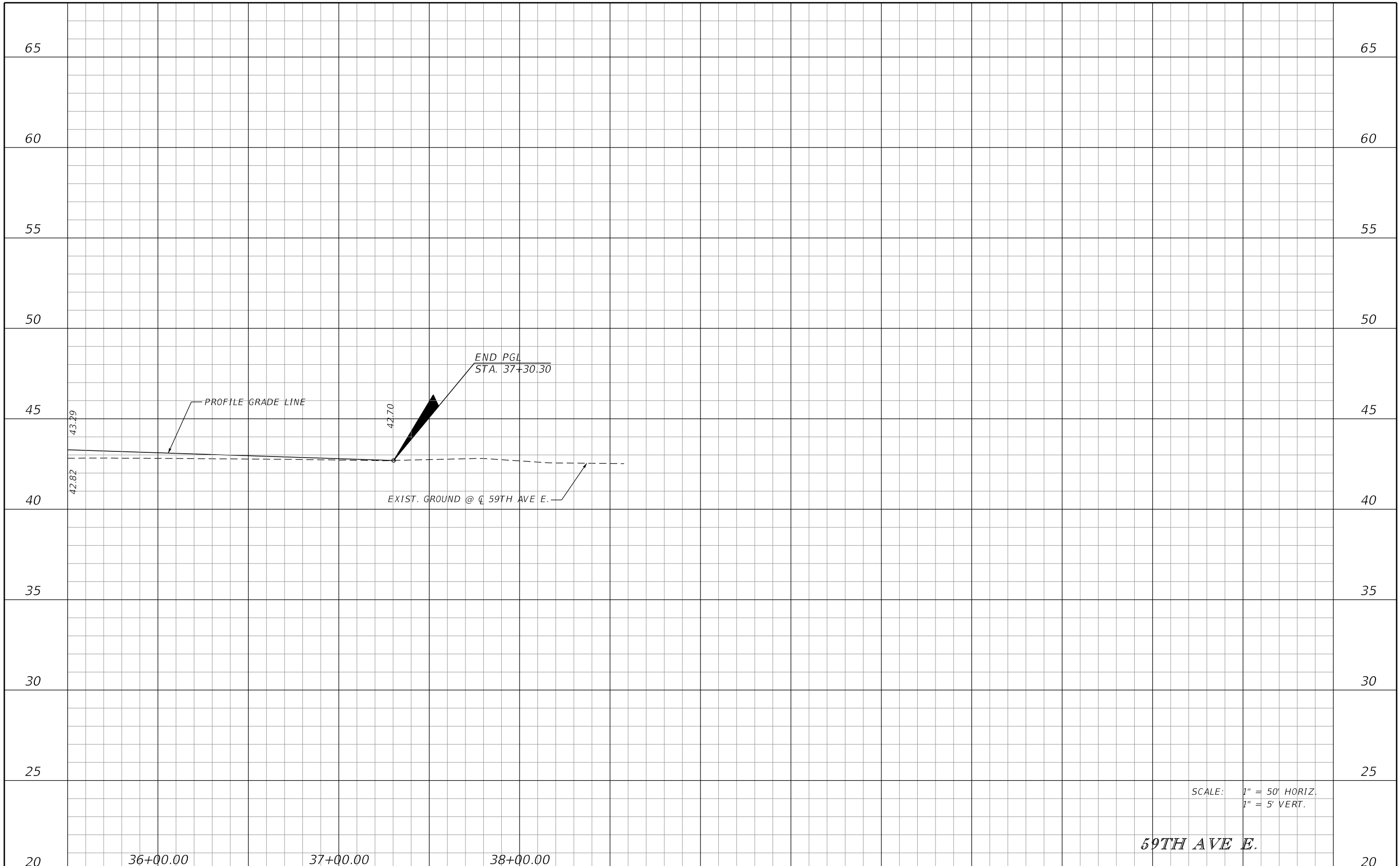
BEGIN PGL
STA. 30+40.02

SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

59TH AVE E.



No.		REVISIONS		DATE	BY	SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	SHEET NO. 66

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

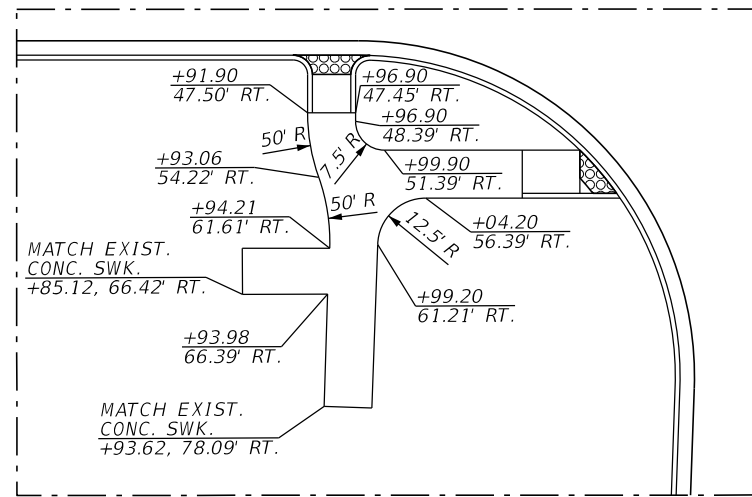
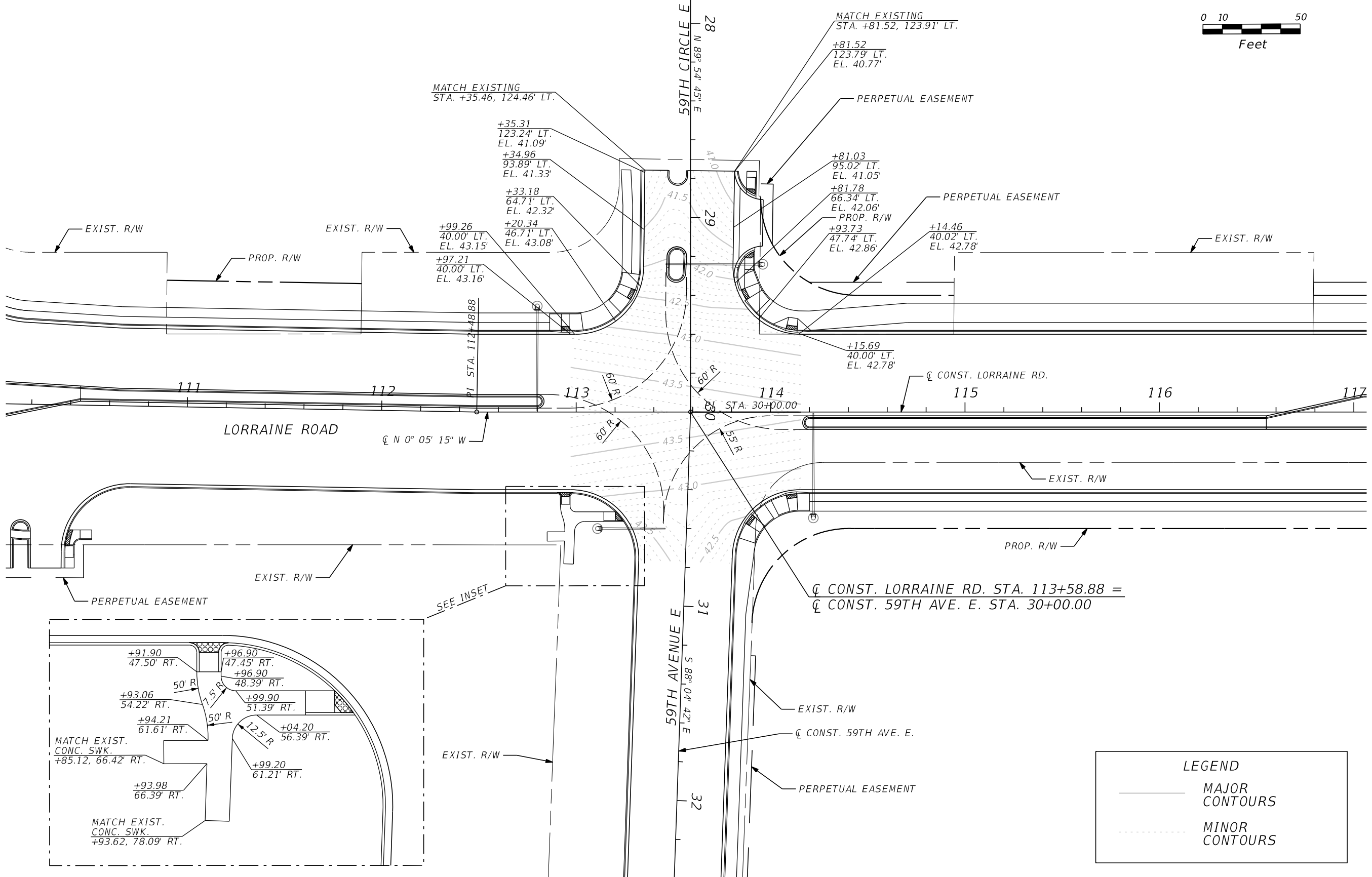
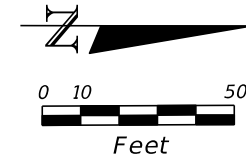


SCALE: 1" = 50' HORIZ.
1" = 5' VERT.

59TH AVE E.

No.		REVISIONS		DATE	BY	SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6107660	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	SHEET NO. 67
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

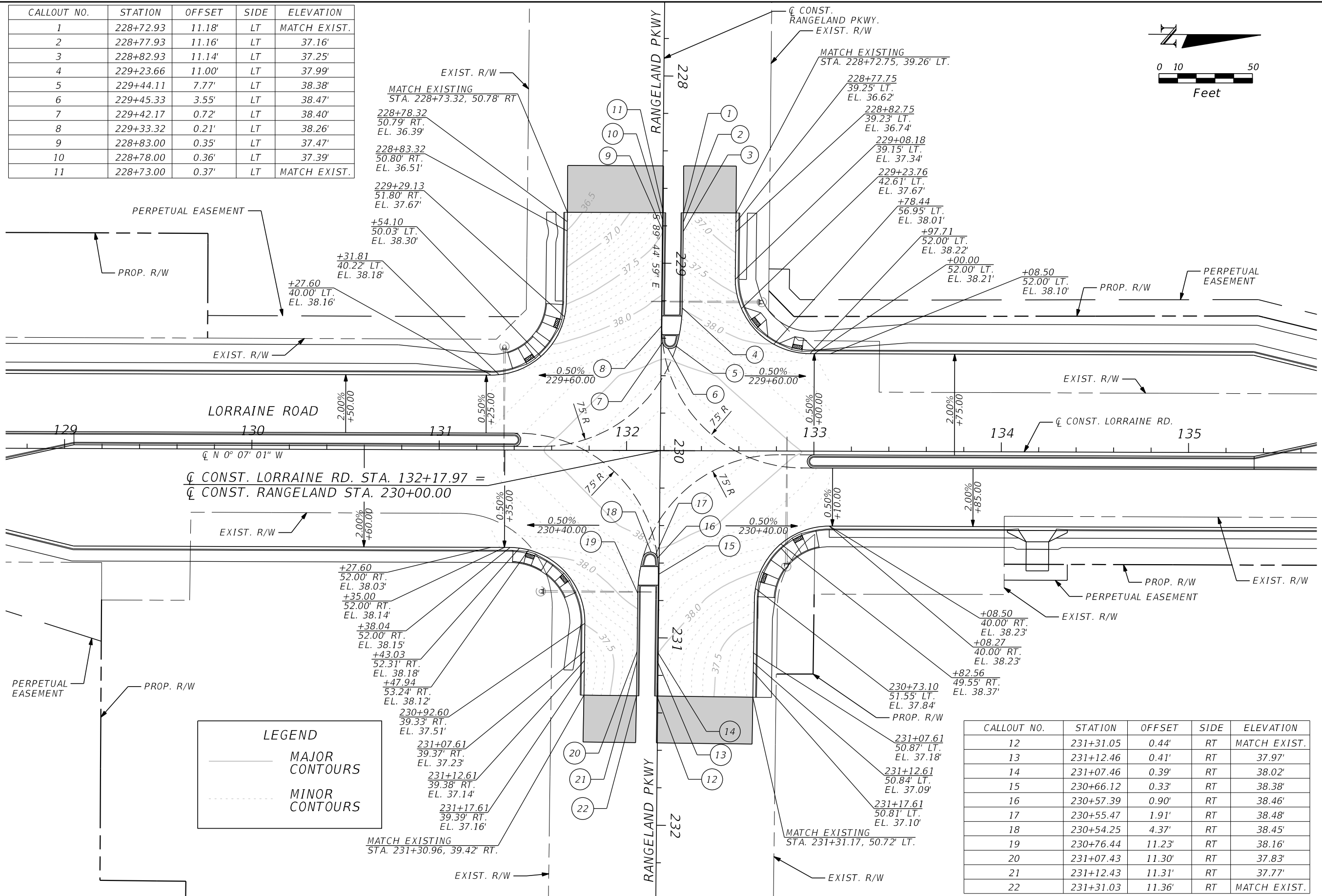
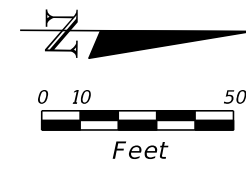


LEGEND	
	MAJOR CONTOURS
	MINOR CONTOURS

No.	REVISIONS	DATE	BY	SCALE	AS NOTED	DATE	11/2022	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	SHEET NO. 70
				DESIGNED BY	BLZ				
				HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		MANATEE COUNTY PUBLIC WORKS		INTERSECTION DETAIL (1)	

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

CALLOUT NO.	STATION	OFFSET	SIDE	ELEVATION
1	228+72.93	11.18'	LT	MATCH EXIST.
2	228+77.93	11.16'	LT	37.16'
3	228+82.93	11.14'	LT	37.25'
4	229+23.66	11.00'	LT	37.99'
5	229+44.11	7.77'	LT	38.38'
6	229+45.33	3.55'	LT	38.47'
7	229+42.17	0.72'	LT	38.40'
8	229+33.32	0.21'	LT	38.26'
9	228+83.00	0.35'	LT	37.47'
10	228+78.00	0.36'	LT	37.39'
11	228+73.00	0.37'	LT	MATCH EXIST.



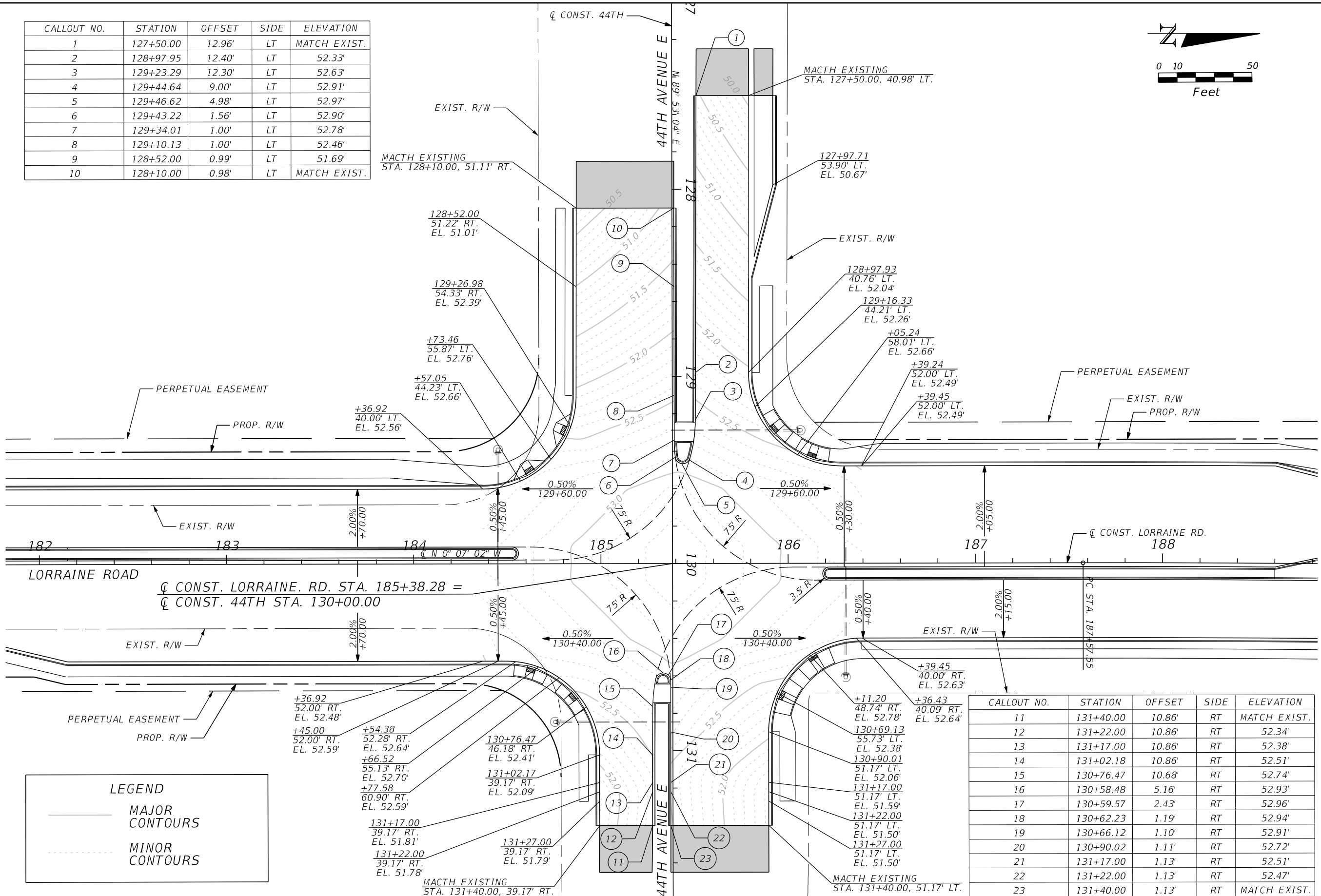
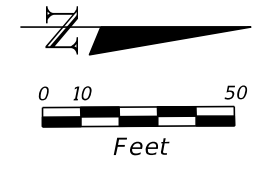
LEGEND	
	MAJOR CONTOURS
	MINOR CONTOURS

CALLOUT NO.	STATION	OFFSET	SIDE	ELEVATION
12	231+31.05	0.44'	RT	MATCH EXIST.
13	231+12.46	0.41'	RT	37.97'
14	231+07.46	0.39'	RT	38.02'
15	230+66.12	0.33'	RT	38.38'
16	230+57.39	0.90'	RT	38.46'
17	230+55.47	1.91'	RT	38.48'
18	230+54.25	4.37'	RT	38.45'
19	230+76.44	11.23'	RT	38.16'
20	231+07.43	11.30'	RT	37.83'
21	231+12.43	11.31'	RT	37.77'
22	231+31.03	11.36'	RT	MATCH EXIST.

No. REVISIONS DATE BY _____ _____ _____	SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6107660	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	INTERSECTION DETAIL (2) SHEET NO. 71
	11/30/2022 3:06:51 PM Default		pw:\pwhdruseas01\HDR_US_East_01\Documents\3658\10345615\6.0_CAD_BIM\6.2_WIP\12345678910\roadway\INTDRD02.dgn			

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

CALLOUT NO.	STATION	OFFSET	SIDE	ELEVATION
1	127+50.00	12.96'	LT	MATCH EXIST.
2	128+97.95	12.40'	LT	52.33'
3	129+23.29	12.30'	LT	52.63'
4	129+44.64	9.00'	LT	52.91'
5	129+46.62	4.98'	LT	52.97'
6	129+43.22	1.56'	LT	52.90'
7	129+34.01	1.00'	LT	52.78'
8	129+10.13	1.00'	LT	52.46'
9	128+52.00	0.99'	LT	51.69'
10	128+10.00	0.98'	LT	MATCH EXIST.



LEGEND	
	MAJOR CONTOURS
	MINOR CONTOURS

CALLOUT NO.	STATION	OFFSET	SIDE	ELEVATION
11	131+40.00	10.86'	RT	MATCH EXIST.
12	131+22.00	10.86'	RT	52.34'
13	131+17.00	10.86'	RT	52.38'
14	131+02.18	10.86'	RT	52.51'
15	130+76.47	10.68'	RT	52.74'
16	130+58.48	5.16'	RT	52.93'
17	130+59.57	2.43'	RT	52.96'
18	130+62.23	1.19'	RT	52.94'
19	130+66.12	1.10'	RT	52.91'
20	130+90.02	1.11'	RT	52.72'
21	131+17.00	1.13'	RT	52.51'
22	131+22.00	1.13'	RT	52.47'
23	131+40.00	1.13'	RT	MATCH EXIST.

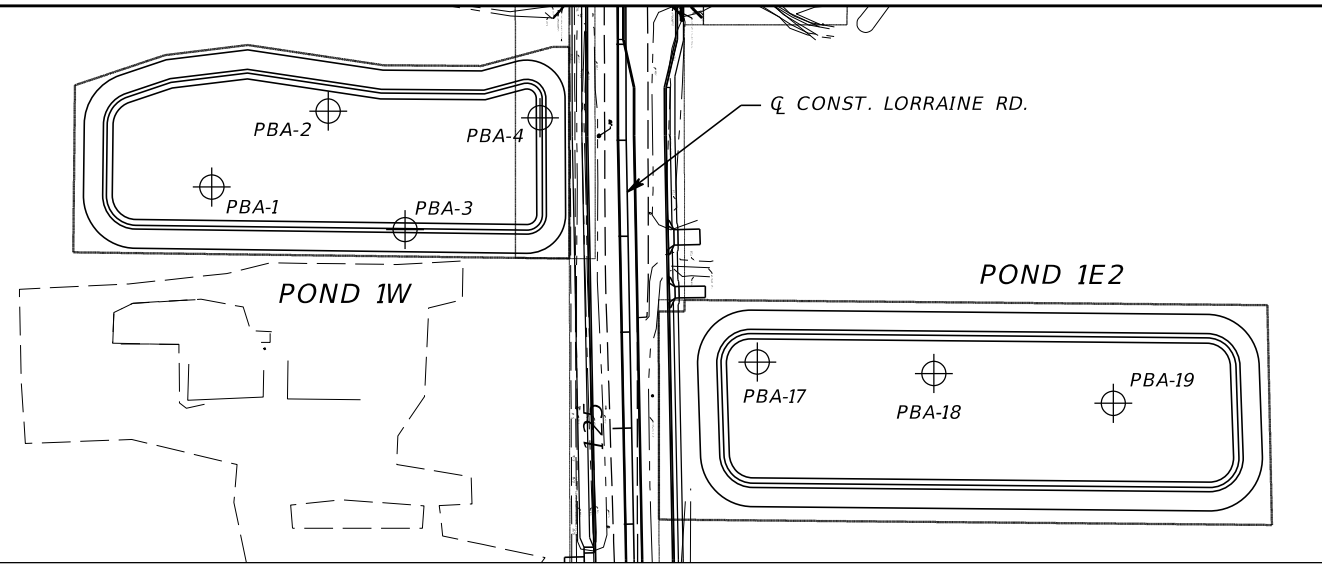
SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	SHEET NO. 72
PROJECT NO. 6107660			INTERSECTION DETAIL (3)			

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

LEGEND

- 1. GRAY TO LIGHT BROWN SAND TO SAND WITH SILT (A-3)
- 2. GRAY TO BROWN SILTY SAND (A-2-4)
- 3. LIGHT GRAY TO BROWN CLAYEY SAND (A-2-6)
- 4. ORGANIC SAND TO SILTY SAND (A-8)
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- 200 PERCENT PASSING #200 SIEVE
- NMC NATURAL MOISTURE CONTENT (%)
- OC ORGANIC CONTENT (%)
- NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988
- ⊕ APPROXIMATE AUGER BORING LOCATION
- ▽⁺ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE AT OR ABOVE GRADE
- ▽ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
- ▼ GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
- GNE GROUNDWATER NOT ENCOUNTERED
- CAVE-IN CAVE-IN DUE TO SHALLOW GROUNDWATER INTRUSION
- EASTING EASTING COORDINATE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, N.A.D. 83.
- NORTHING NORTHING COORDINATE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, N.A.D. 83.

NOTE: THE LOCATIONS OF THE BORINGS DENOTED WITH AN ASTERISK (*) WERE ESTIMATED USING GPS COORDINATES OBTAINED IN THE FIELD WITH A HAND-HELD, NON-SURVEY GRADE (±10 FEET REPORTED ACCURACY) GARMIN ETREX DEVICE. THE REMAINING BORING LOCATIONS WERE OBTAINED BY THE PROJECT SURVEYOR.

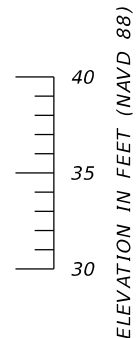
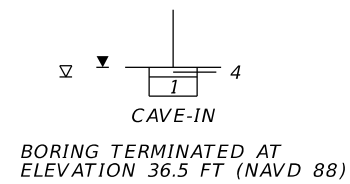
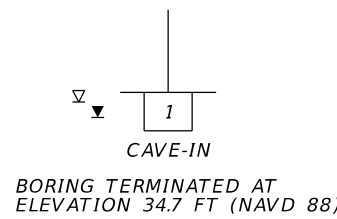
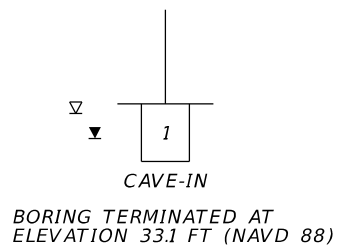
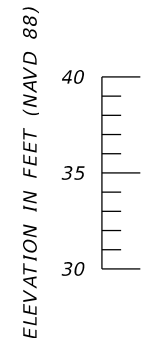


BORING LOCATION PLAN

BOR # PBA-17*
 EASTING 528061
 NORTHING 1128935
 ELEV. 36.1
 DATE 8/30/2022

BOR # PBA-18*
 EASTING 528245
 NORTHING 1128923
 ELEV. 36.7
 DATE 8/30/2022

BOR # PBA-19*
 EASTING 528432
 NORTHING 1128892
 ELEV. 38.0
 DATE 8/30/2022



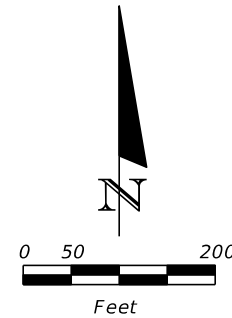
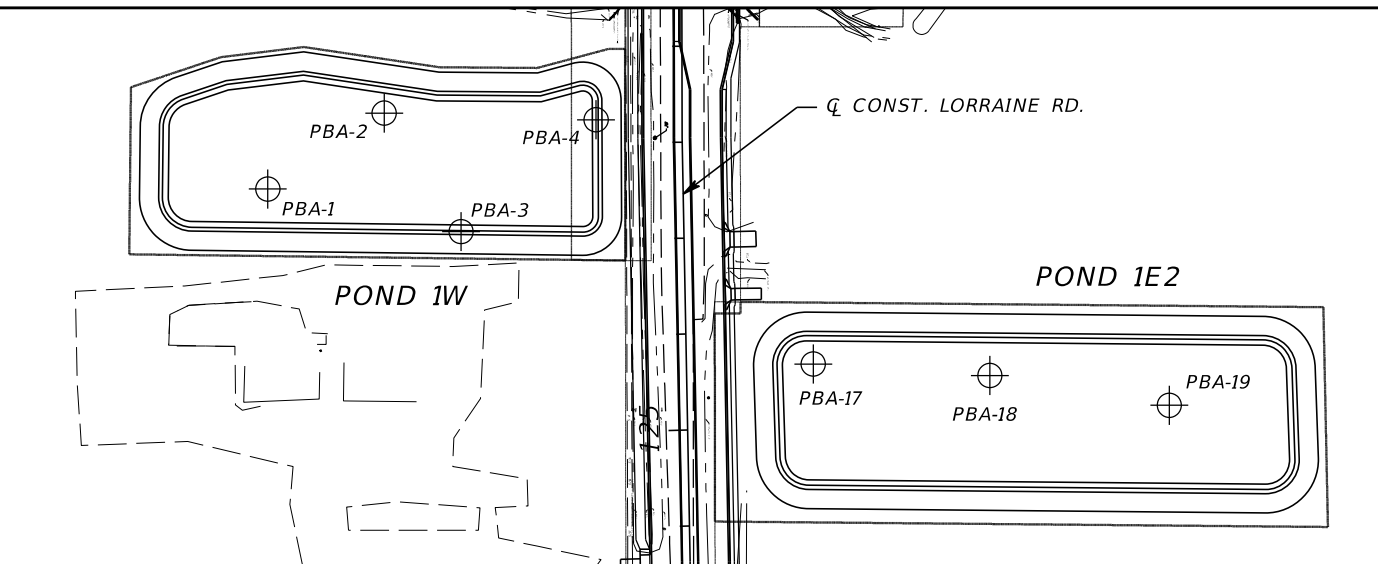
POND 1E2

		SCALE AS NOTED		DATE 08/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER DANIEL R. RUEL, P.E.	POND SOIL SURVEY (1)	SHEET NO.
		DESIGNED BY BMG		PROJECT NO. 6107660		FL. LICENSE NO. 82404		71
No.	REVISIONS	DATE	BY	DRR	TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FL 33637			

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

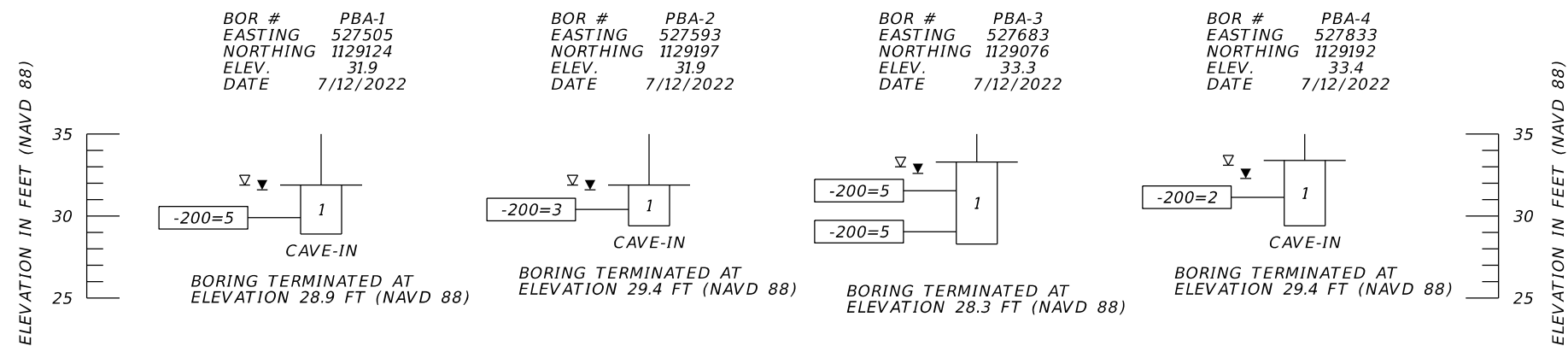
LEGEND

- 1. GRAY TO LIGHT BROWN SAND TO SAND WITH SILT (A-3)
- 2. GRAY TO BROWN SILTY SAND (A-2-4)
- 3. LIGHT GRAY TO BROWN CLAYEY SAND (A-2-6)
- 4. ORGANIC SAND TO SILTY SAND (A-8)
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- 200 PERCENT PASSING #200 SIEVE
- NMC NATURAL MOISTURE CONTENT (%)
- OC ORGANIC CONTENT (%)
- NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988
- ⊕ APPROXIMATE AUGER BORING LOCATION
- ▽⁺ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE AT OR ABOVE GRADE
- ▽ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
- ▼ GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
- GNE GROUNDWATER NOT ENCOUNTERED
- CAVE-IN CAVE-IN DUE TO SHALLOW GROUNDWATER INTRUSION
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- NORTHING NORTHING COORDINATE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, N.A.D. 83.



BORING LOCATION PLAN

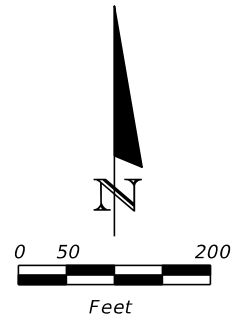
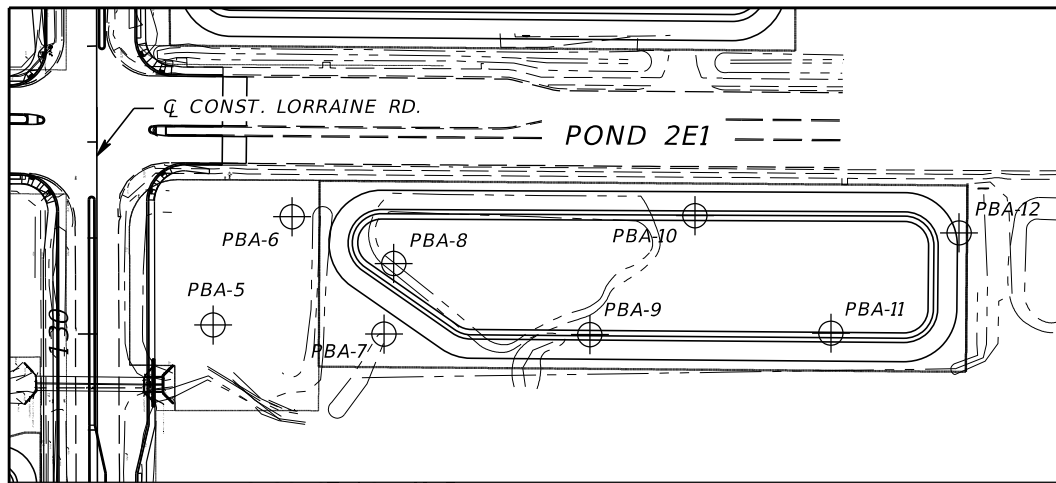
NOTE: THE LOCATIONS OF THE BORINGS DENOTED WITH AN ASTERISK (*) WERE ESTIMATED USING GPS COORDINATES OBTAINED IN THE FIELD WITH A HAND-HELD, NON-SURVEY GRADE (±10 FEET REPORTED ACCURACY) GARMIN ETREX DEVICE. THE REMAINING BORING LOCATIONS WERE OBTAINED BY THE PROJECT SURVEYOR.



POND 1W

SCALE AS NOTED				DATE 08/2022		MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER DANIEL R. RUEL, P.E.	POND SOIL SURVEY (2)	SHEET NO.
DESIGNED BY BMG				PROJECT NO. 6107660			FL. LICENSE NO. 82404		72
DRAWN BY BMG				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FL 33637					
CHECKED BY DRR									
No.	REVISIONS	DATE	BY						

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BORING LOCATION PLAN

LEGEND

- 1. GRAY TO LIGHT BROWN SAND TO SAND WITH SILT (A-3)
- 2. GRAY TO BROWN SILTY SAND (A-2-4)
- 3. LIGHT GRAY TO BROWN CLAYEY SAND (A-2-6)
- 4. ORGANIC SAND TO SILTY SAND (A-8)
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- 200 PERCENT PASSING #200 SIEVE
- NMC NATURAL MOISTURE CONTENT (%)
- OC ORGANIC CONTENT (%)
- NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988
- ⊕ APPROXIMATE AUGER BORING LOCATION
- ▽⁺ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE AT OR ABOVE GRADE
- ▽ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
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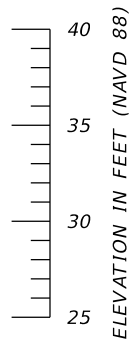
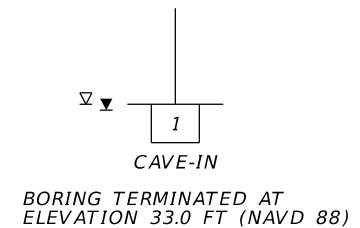
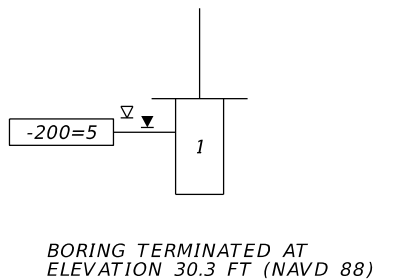
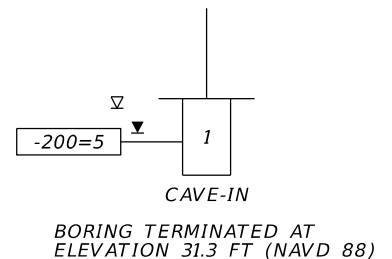
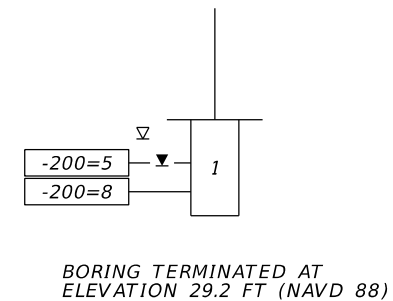
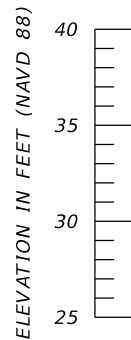
NOTE: THE LOCATIONS OF THE BORINGS DENOTED WITH AN ASTERISK (*) WERE ESTIMATED USING GPS COORDINATES OBTAINED IN THE FIELD WITH A HAND-HELD, NON-SURVEY GRADE (±10 FEET REPORTED ACCURACY) GARMIN ETREX DEVICE. THE REMAINING BORING LOCATIONS WERE OBTAINED BY THE PROJECT SURVEYOR.

BOR # PBA-5
EASTING 528051
NORTHING 1129381
ELEV. 34.2
DATE 7/12/2022

BOR # PBA-6
EASTING 528119
NORTHING 1129490
ELEV. 35.3
DATE 7/13/2022

BOR # PBA-7
EASTING 528219
NORTHING 1129369
ELEV. 35.3
DATE 7/13/2022

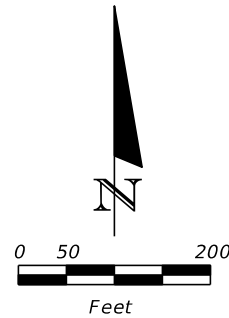
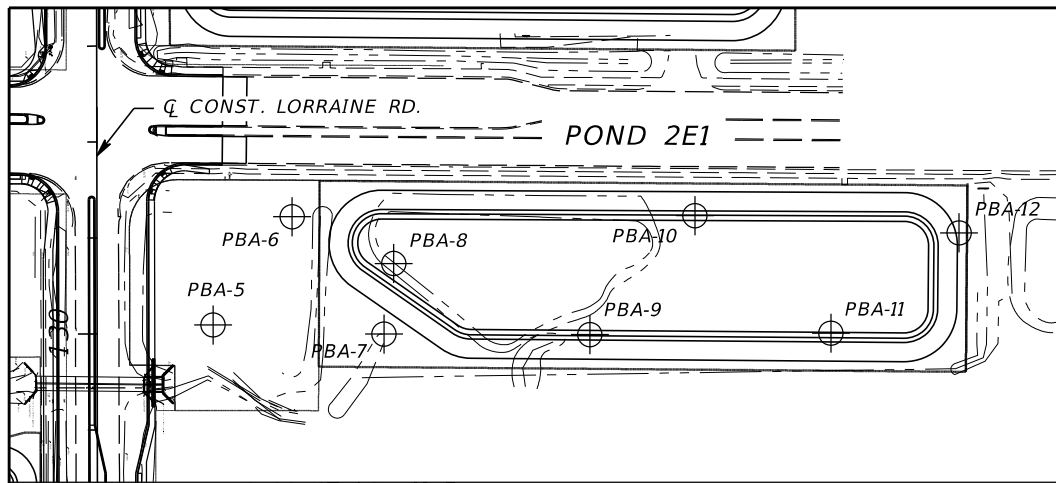
BOR # PBA-8
EASTING 528228
NORTHING 1129445
ELEV. 35.0
DATE 7/13/2022



POND 2E1

SCALE AS NOTED DESIGNED BY BMG DRAWN BY BMG CHECKED BY DRR				DATE 08/2022 PROJECT NO. 6107660		DESIGN ENGINEER DANIEL R. RUEL, P.E. FL. LICENSE NO. 82404		SHEET NO. 73 POND SOIL SURVEY (3)	
TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FL 33637									

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



BORING LOCATION PLAN

LEGEND

- 1. GRAY TO LIGHT BROWN SAND TO SAND WITH SILT (A-3)
- 2. GRAY TO BROWN SILTY SAND (A-2-4)
- 3. LIGHT GRAY TO BROWN CLAYEY SAND (A-2-6)
- 4. ORGANIC SAND TO SILTY SAND (A-8)
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- 200 PERCENT PASSING #200 SIEVE
- NMC NATURAL MOISTURE CONTENT (%)
- OC ORGANIC CONTENT (%)
- NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988
- ⊕ APPROXIMATE AUGER BORING LOCATION
- ▽⁺ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE AT OR ABOVE GRADE
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- EASTING EASTING COORDINATE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, N.A.D. 83.
- NORTHING NORTHING COORDINATE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, N.A.D. 83.

NOTE: THE LOCATIONS OF THE BORINGS DENOTED WITH AN ASTERISK (*) WERE ESTIMATED USING GPS COORDINATES OBTAINED IN THE FIELD WITH A HAND-HELD, NON-SURVEY GRADE (±10 FEET REPORTED ACCURACY) GARMIN ETREX DEVICE. THE REMAINING BORING LOCATIONS WERE OBTAINED BY THE PROJECT SURVEYOR.

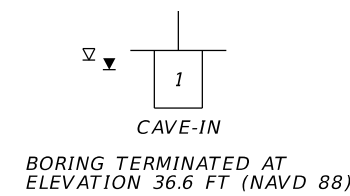
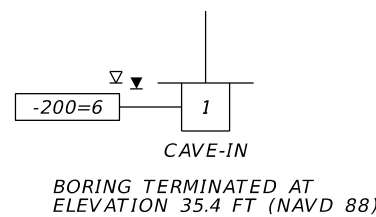
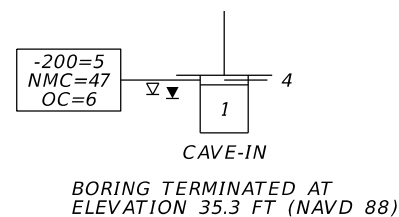
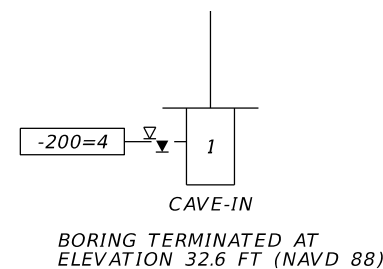
BOR # PBA-9
EASTING 528426
NORTHING 1129367
ELEV. 36.6
DATE 7/13/2022

BOR # PBA-10
EASTING 528543
NORTHING 1129490
ELEV. 38.3
DATE 7/13/2022

BOR # PBA-11
EASTING 528678
NORTHING 1129373
ELEV. 37.9
DATE 7/14/2022

BOR # PBA-12
EASTING 528818
NORTHING 1129472
ELEV. 39.6
DATE 7/13/2022

ELEVATION IN FEET (NAVD 88)



ELEVATION IN FEET (NAVD 88)

POND 2E1

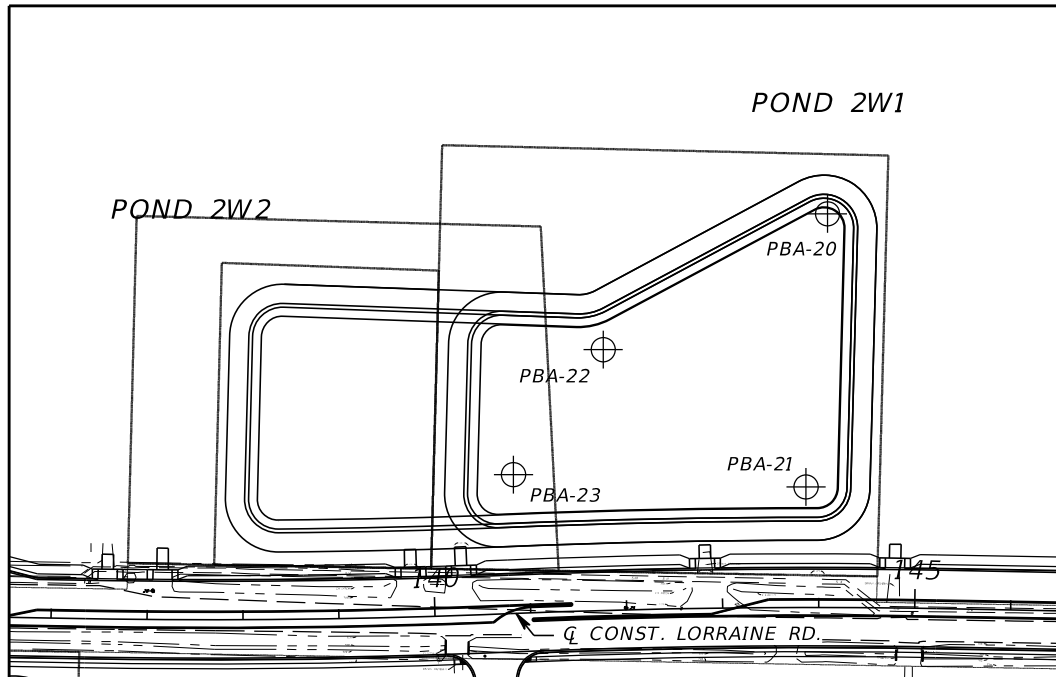
SCALE AS NOTED DESIGNED BY BMG DRAWN BY BMG CHECKED BY DRR				DATE 08/2022 PROJECT NO. 6107660		DESIGN ENGINEER DANIEL R. RUEL, P.E. FL. LICENSE NO. 82404		SHEET NO. 74 POND SOIL SURVEY (4)	
TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FL 33637									

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

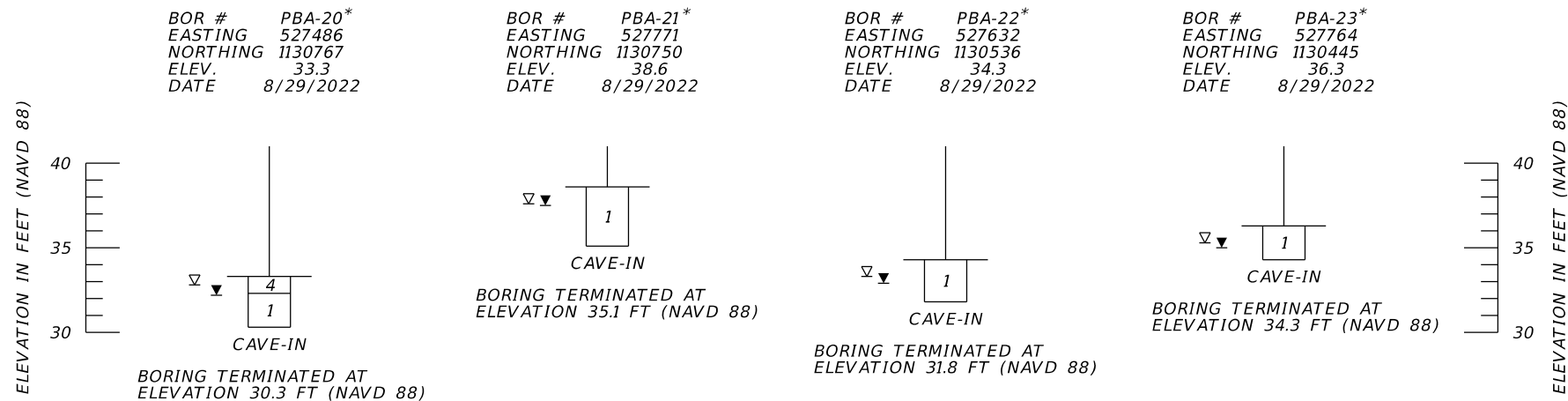
LEGEND

- 1. GRAY TO LIGHT BROWN SAND TO SAND WITH SILT (A-3)
- 2. GRAY TO BROWN SILTY SAND (A-2-4)
- 3. LIGHT GRAY TO BROWN CLAYEY SAND (A-2-6)
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- 200 PERCENT PASSING #200 SIEVE
- NMC NATURAL MOISTURE CONTENT (%)
- OC ORGANIC CONTENT (%)
- NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988
- ⊕ APPROXIMATE AUGER BORING LOCATION
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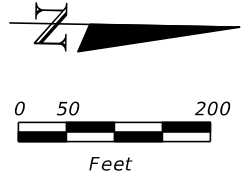
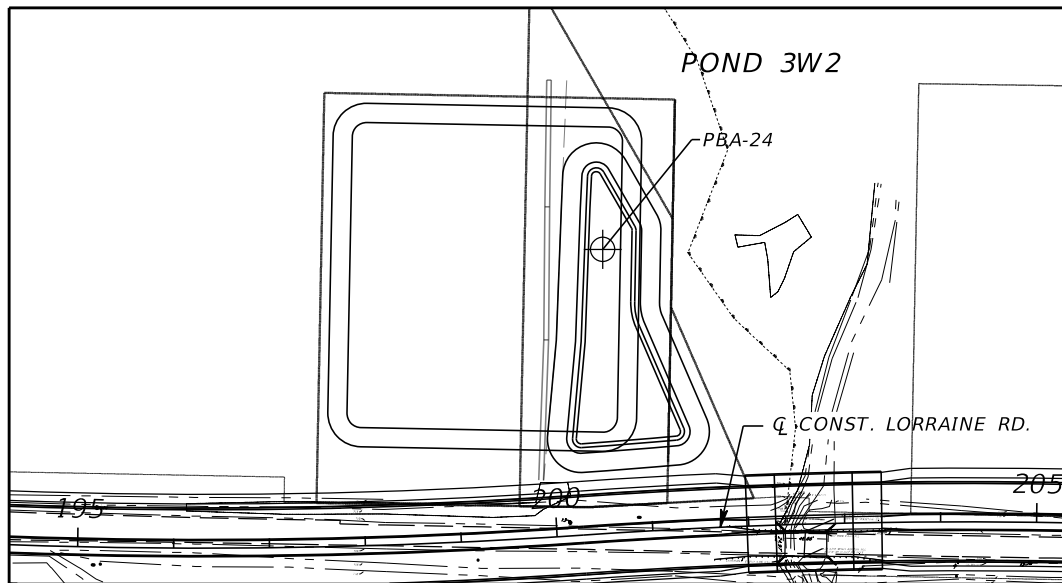
BORING LOCATION PLAN



POND 2W1

		SCALE AS NOTED		DATE 08/2022	<p>MANATEE COUNTY PUBLIC WORKS</p>	DESIGN ENGINEER DANIEL R. RUEL, P.E.	<p>POND SOIL SURVEY (5)</p>
		DESIGNED BY BMG		PROJECT NO. 6107660		FL. LICENSE NO. 82404	
		DRAWN BY BMG	TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FL 33637				
		CHECKED BY DRR					
No.	REVISIONS	DATE	BY				

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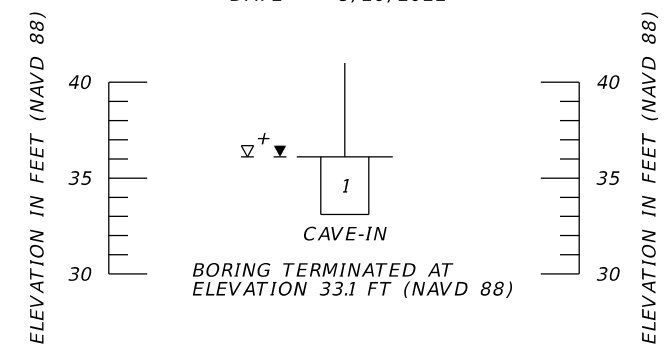
BORING LOCATION PLAN

LEGEND

- 1. GRAY TO LIGHT BROWN SAND TO SAND WITH SILT (A-3)
- 2. GRAY TO BROWN SILTY SAND (A-2-4)
- 3. LIGHT GRAY TO BROWN CLAYEY SAND (A-2-6)
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- NMC NATURAL MOISTURE CONTENT (%)
- OC ORGANIC CONTENT (%)
- NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988
- ⊕ APPROXIMATE AUGER BORING LOCATION
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- EASTING EASTING COORDINATE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, N.A.D. 83.
- NORTHING NORTHING COORDINATE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, N.A.D. 83.

NOTE: THE LOCATIONS OF THE BORINGS DENOTED WITH AN ASTERISK (*) WERE ESTIMATED USING GPS COORDINATES OBTAINED IN THE FIELD WITH A HAND-HELD, NON-SURVEY GRADE (±10 FEET REPORTED ACCURACY) GARMIN ETREX DEVICE. THE REMAINING BORING LOCATIONS WERE OBTAINED BY THE PROJECT SURVEYOR.

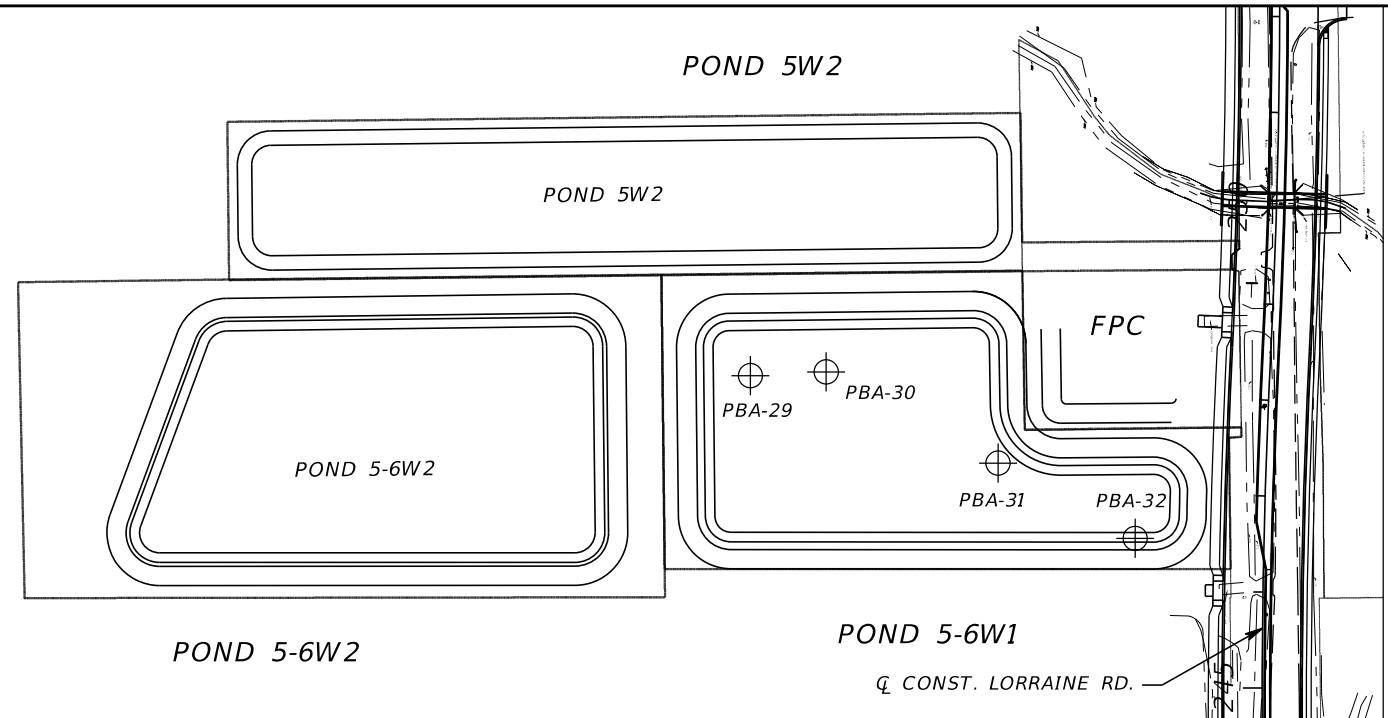
BOR # PBA-24*
 EASTING 527608
 NORTHING 1136406
 ELEV. 36.1
 DATE 8/26/2022



POND 3W2

SCALE AS NOTED				DATE 08/2022		MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER DANIEL R. RUEL, P.E.	POND SOIL SURVEY (6)	SHEET NO.
DESIGNED BY BMG				PROJECT NO. 6107660			FL. LICENSE NO. 82404		76
DRAWN BY BMG				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FL 33637					
CHECKED BY DRR									
No.	REVISIONS	DATE	BY						

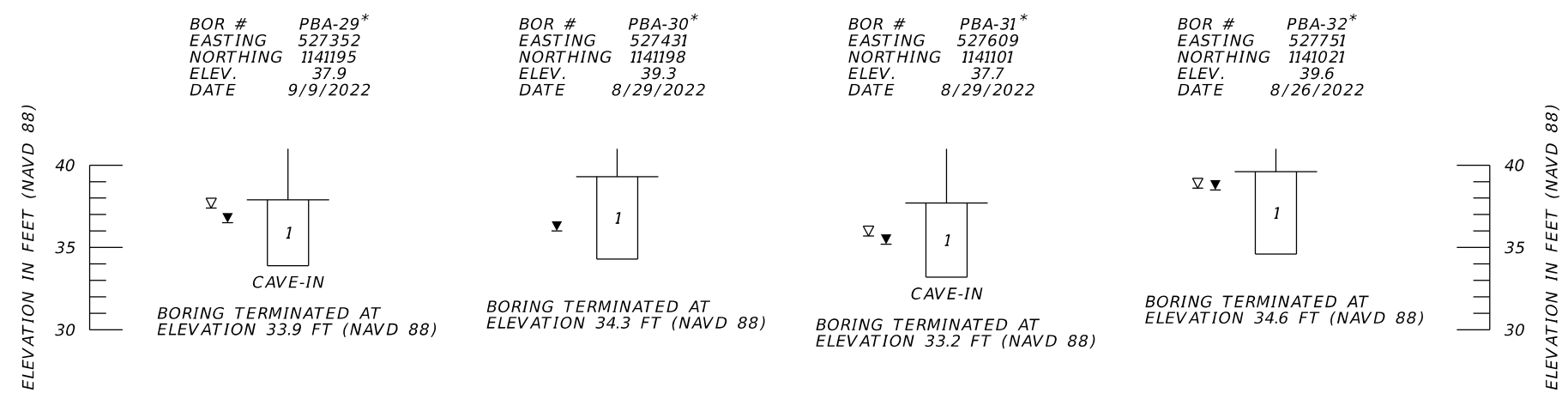
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



BORING LOCATION PLAN

- LEGEND**
1. GRAY TO LIGHT BROWN SAND TO SAND WITH SILT (A-3)
 2. GRAY TO BROWN SILTY SAND (A-2-4)
 3. LIGHT GRAY TO BROWN CLAYEY SAND (A-2-6)
 4. ORGANIC SAND TO SILTY SAND (A-8)
- A-3 AASHTO GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
- 200 PERCENT PASSING #200 SIEVE
 NMC NATURAL MOISTURE CONTENT (%)
 OC ORGANIC CONTENT (%)
- NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988
- ⊕ APPROXIMATE AUGER BORING LOCATION
- ▽⁺ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE AT OR ABOVE GRADE
- ▽ ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
- ▼ GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
- GNE GROUNDWATER NOT ENCOUNTERED
- CAVE-IN CAVE-IN DUE TO SHALLOW GROUNDWATER INTRUSION
- EASTING EASTING COORDINATE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, N.A.D. 83.
- NORTHING NORTHING COORDINATE REFERENCED TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, FLORIDA WEST ZONE, N.A.D. 83.

NOTE: THE LOCATIONS OF THE BORINGS DENOTED WITH AN ASTERISK (*) WERE ESTIMATED USING GPS COORDINATES OBTAINED IN THE FIELD WITH A HAND-HELD, NON-SURVEY GRADE (±10 FEET REPORTED ACCURACY) GARMIN ETREX DEVICE. THE REMAINING BORING LOCATIONS WERE OBTAINED BY THE PROJECT SURVEYOR.



POND 5-6W1

SCALE AS NOTED				DATE 08/2022		DESIGN ENGINEER DANIEL R. RUEL, P.E.	
DESIGNED BY BMG				PROJECT NO. 6107660		FL. LICENSE NO. 82404	
DRAWN BY BMG				MANATEE COUNTY PUBLIC WORKS		POND SOIL SURVEY (7)	
CHECKED BY DRR							
TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FL 33637							

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

DATE OF SURVEY: JULY 2022 - SEPTEMBER 2022
 SURVEY MADE BY: TIERRA, INC.
 SUBMITTED BY: DANIEL R. RUEL, P.E.

MANATEE COUNTY

ROAD NO.: LORRAINE ROAD
 COUNTY: MANATEE

PROJECT ID : 6107660
 PROJECT NAME: LORRAINE ROAD FROM 59TH AVENUE EAST TO SR 64

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS

SURVEY BEGINS STA. : 107+20 SURVEY ENDS STA. : 257+17 REFERENCE: CENTERLINE LORRAINE

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)					ATTERBERG LIMITS (%)			DESCRIPTION	CORROSION TEST RESULTS						
	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT		PLASTIC INDEX	AASHTO GROUP	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	3	1-4	3	25-34	43	49-100	42-95	34-86	15-54	1-10	--	--	--	A-3	GRAY TO LIGHT BROWN SAND TO SAND WITH SILT	17	1,900-17,000	15-45	<5-135	6.6-7.8
2	--	--	--	--	2	--	--	--	--	12-15	--	--	--	A-2-4	GRAY TO BROWN SILTY SAND	--	--	--	--	--
3	--	--	--	--	--	--	--	--	--	--	--	--	--	A-2-6	LIGHT GRAY TO BROWN CLAYEY SAND	--	--	--	--	--
4	7	5-22	7	21-155	7	--	--	--	--	4-14	--	--	--	A-8	ORGANIC SAND TO SILTY SAND	--	--	--	--	--


NOTES:

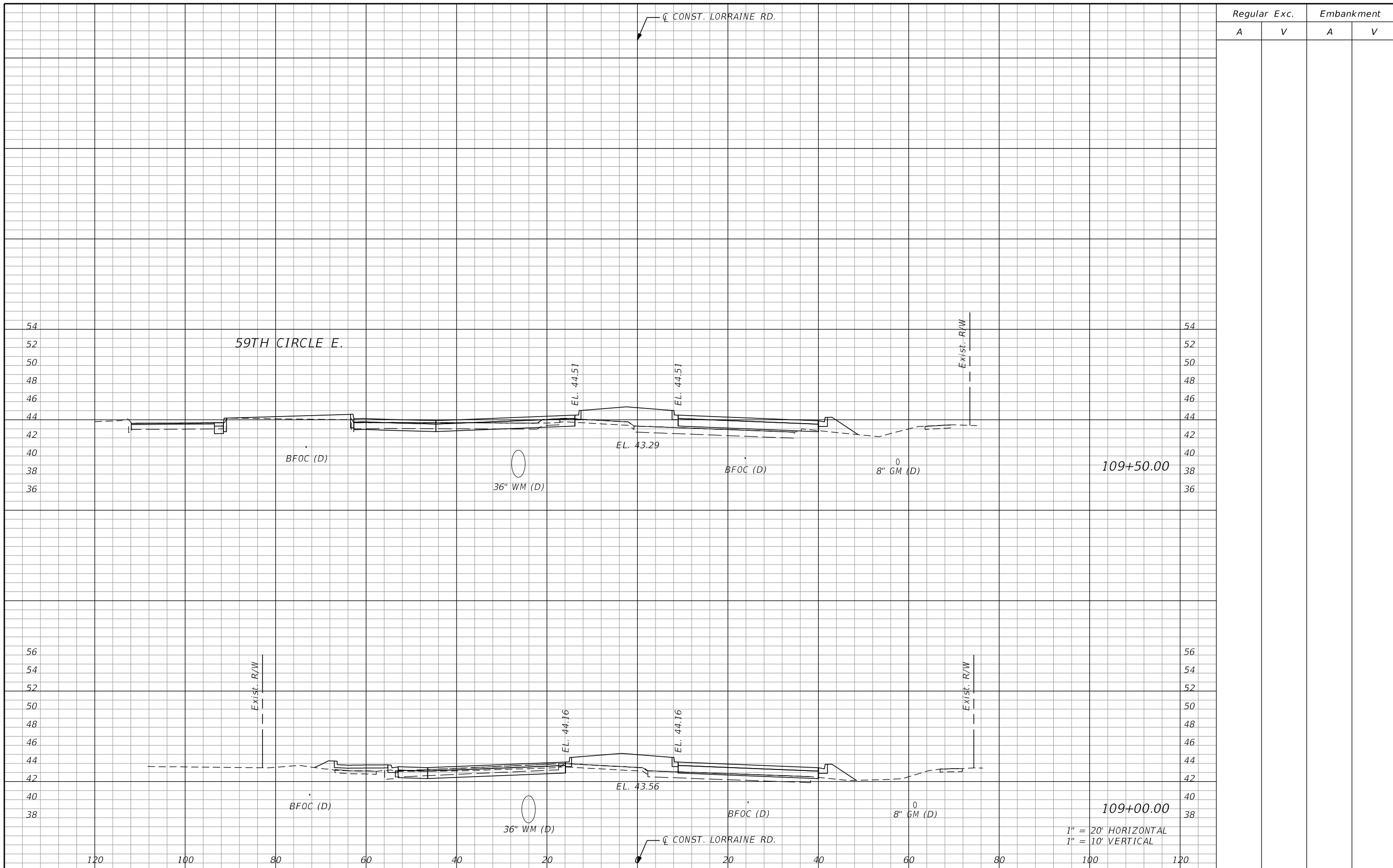
- THE MATERIAL FROM STRATUM 1 (A-3) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
- THE MATERIAL FROM STRATUM 2 (A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
- THE MATERIAL FROM STRATUM 3 (A-2-6) IS PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. THE REMOVAL LIMITS IF REQUIRED, WILL BE DEPICTED ON THE ROADWAY CROSS-SECTIONS AT THE NEXT SUBMITTAL.
- THE MATERIAL FROM STRATUM 4 (A-8) IS ORGANIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002 AND UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. THE REMOVAL LIMITS WILL BE DEPICTED ON THE ROADWAY CROSS-SECTIONS AND ON THE MUCK DELINEATION SHEETS IN FUTURE SUBMITTALS.
- THE "--" INDICATES AN UNMEASURED PARAMETER.

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

- ∇⁺ - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE AT OR ABOVE GRADE
- ∇ - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
- ∇⁻ - WATER TABLE ENCOUNTERED
- GNE - GROUNDWATER NOT ENCOUNTERED

SCALE AS NOTED				DATE 09/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER DANIEL R. RUEL, P.E.	ROADWAY SOIL SURVEY	SHEET NO.
DESIGNED BY BMG				PROJECT NO. 6107660		FL. LICENSE NO. 82404		78
DRAWN BY BMG				TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FL 33637				
CHECKED BY DRR								
No.	REVISIONS	DATE	BY					



Regular		Exc.		Embankment	
A	V	A	V	A	V

109+50.00

109+00.00

1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE 11/2022
 PROJECT NO. 6107660



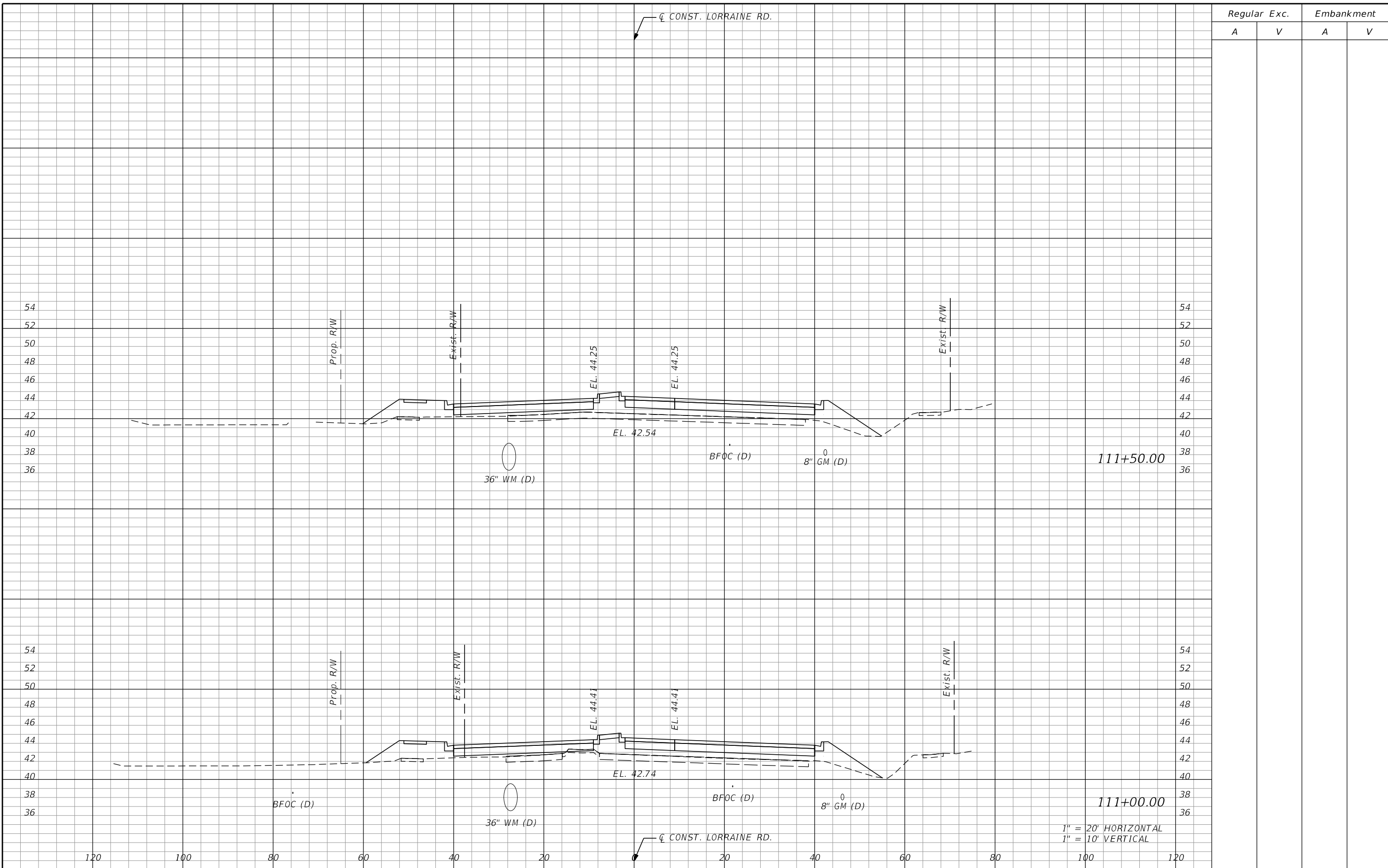
**MANATEE COUNTY
PUBLIC WORKS**

DESIGN ENGINEER
 BRIAN L. ZIMMERMAN
 FL. LICENSE NO. 78557

CROSS SECTIONS

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.



No.	REVISIONS	DATE	BY

SCALE	AS NOTED
DESIGNED BY	BLZ
DRAWN BY	JMA
CHECKED BY	JLS

HDR
HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6107660

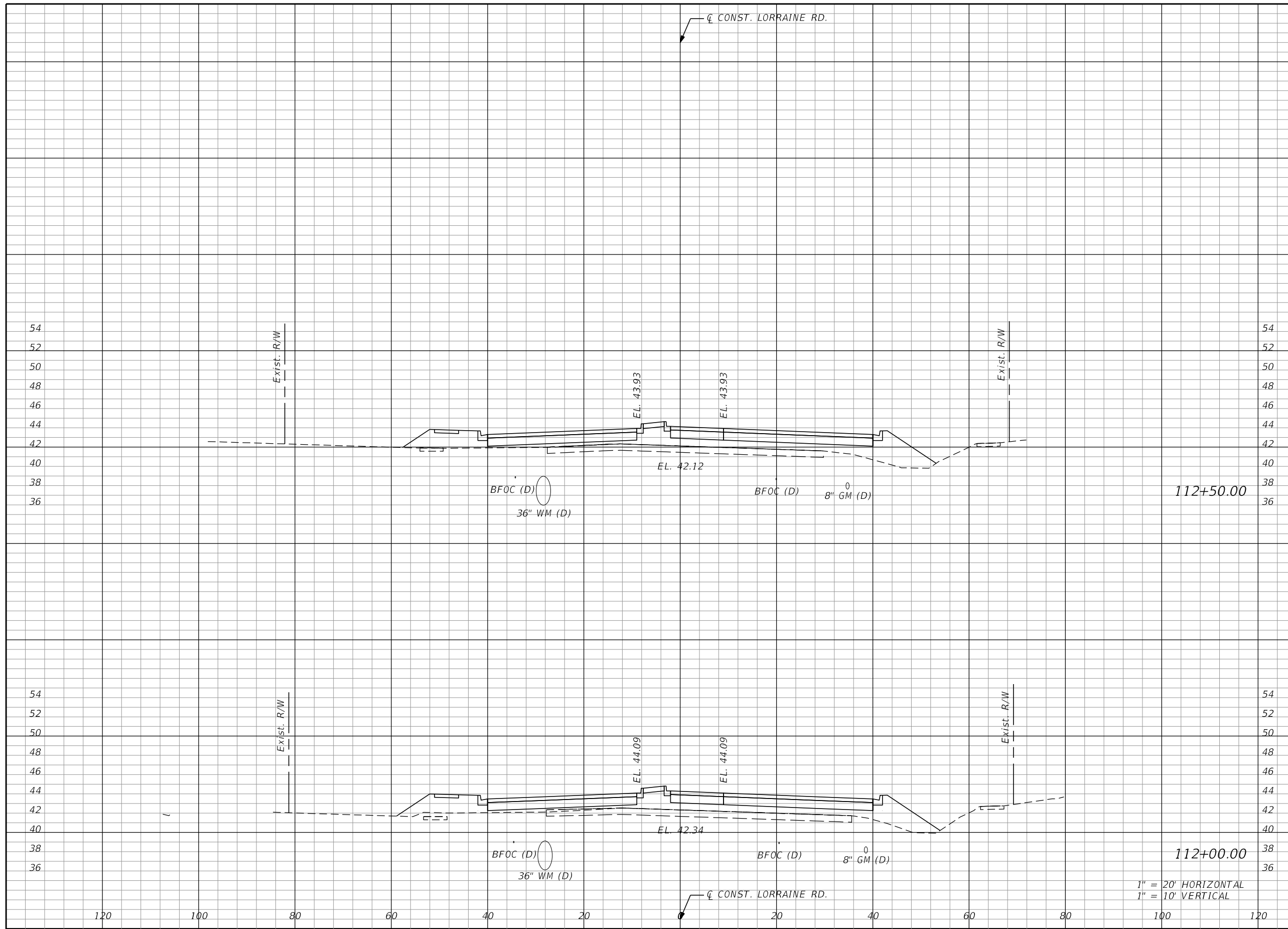


**MANATEE COUNTY
PUBLIC WORKS**

DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557

CROSS SECTIONS

SHEET NO.	83
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Regular		Exc.		Embankment	
A	V	A	V	A	V

1" = 20' HORIZONTAL
 1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE 11/2022
 PROJECT NO. 6107660



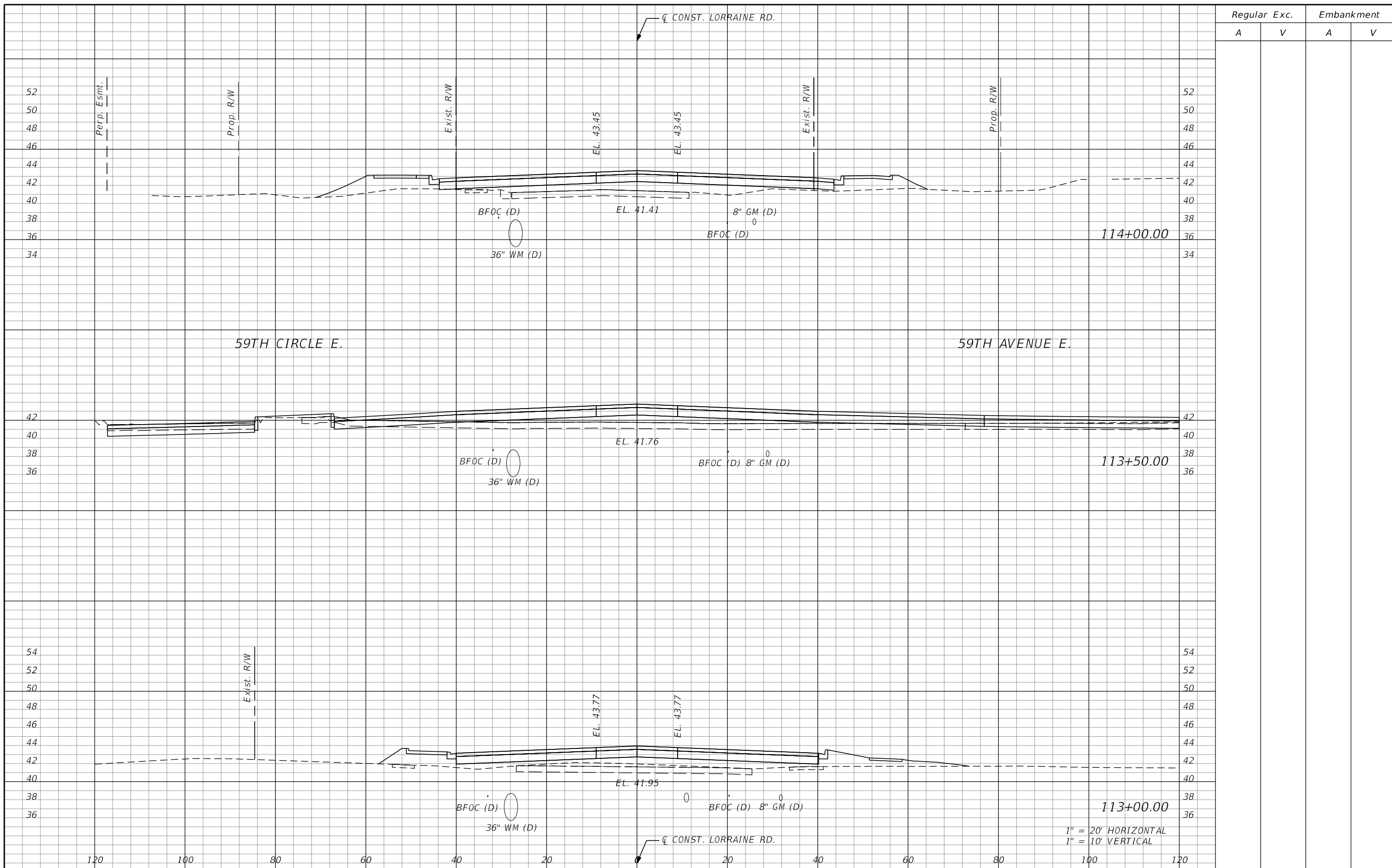
MANATEE COUNTY
 PUBLIC WORKS

DESIGN ENGINEER
 BRIAN L. ZIMMERMAN
 FL. LICENSE NO. 78557

CROSS SECTIONS

SHEET NO. 84

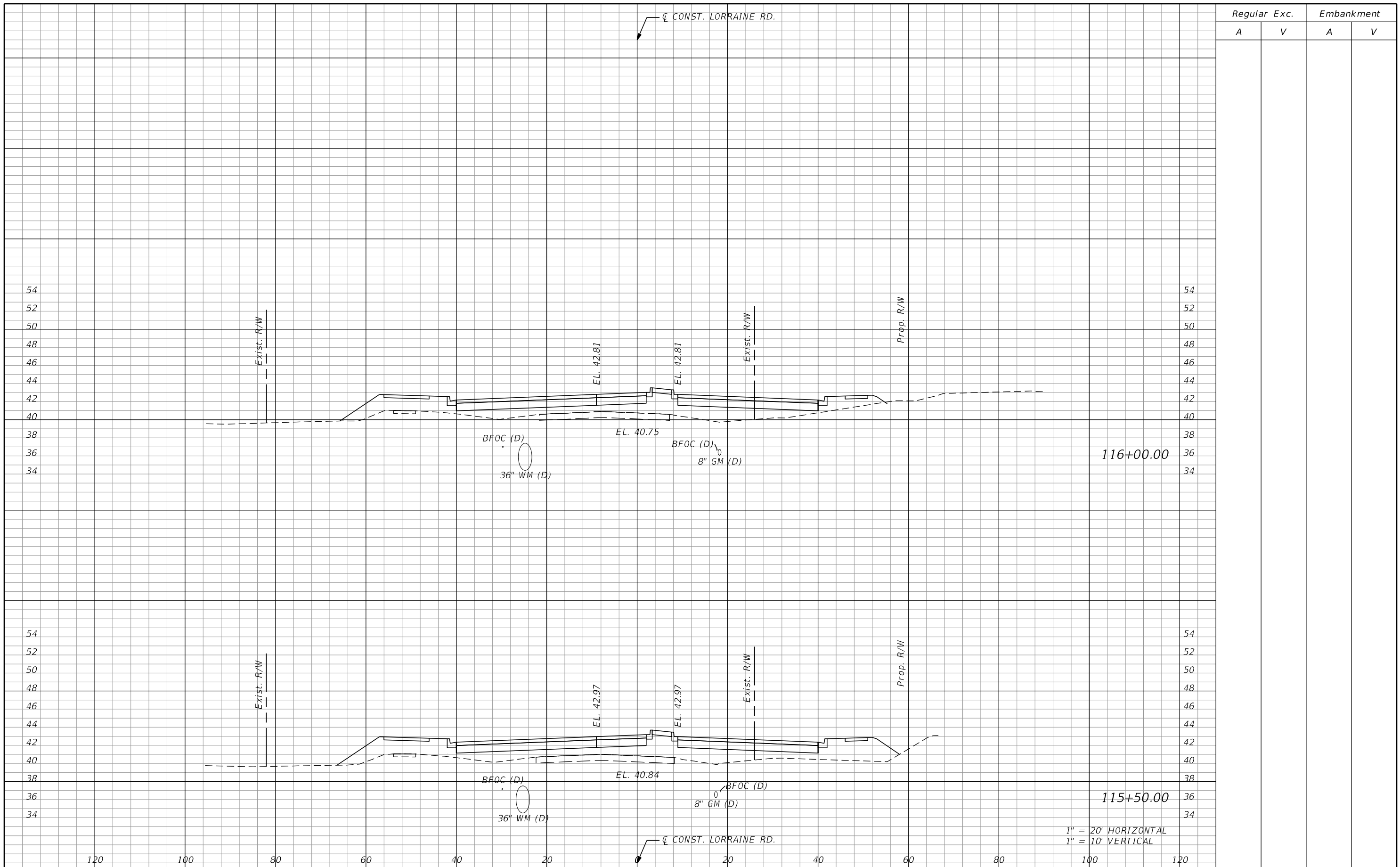
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 85
No. REVISIONS DATE BY			PROJECT NO. 6107660		1" = 20' HORIZONTAL 1" = 10' VERTICAL		

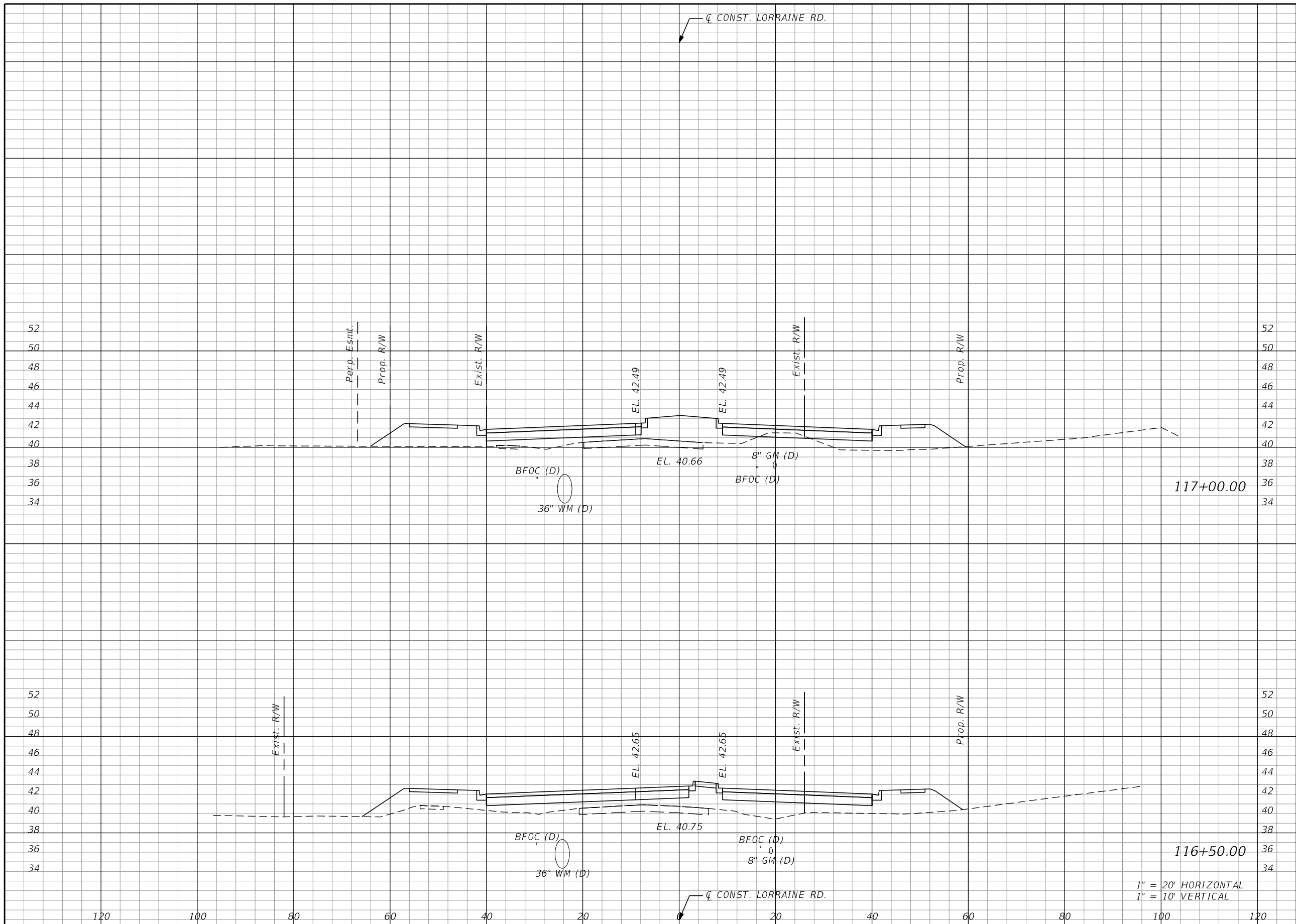
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Regular		Exc.		Embankment	
A	V	A	V	A	V

No.	REVISIONS	DATE	BY	SCALE	AS NOTED	DATE	11/2022	PROJECT NO.	6107660	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	BRIAN L.	FL. LICENSE NO.	78557	SHEET NO.	87
				DESIGNED BY	BLZ							HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609				
				DRAWN BY	JMA											
				CHECKED BY	JLS											

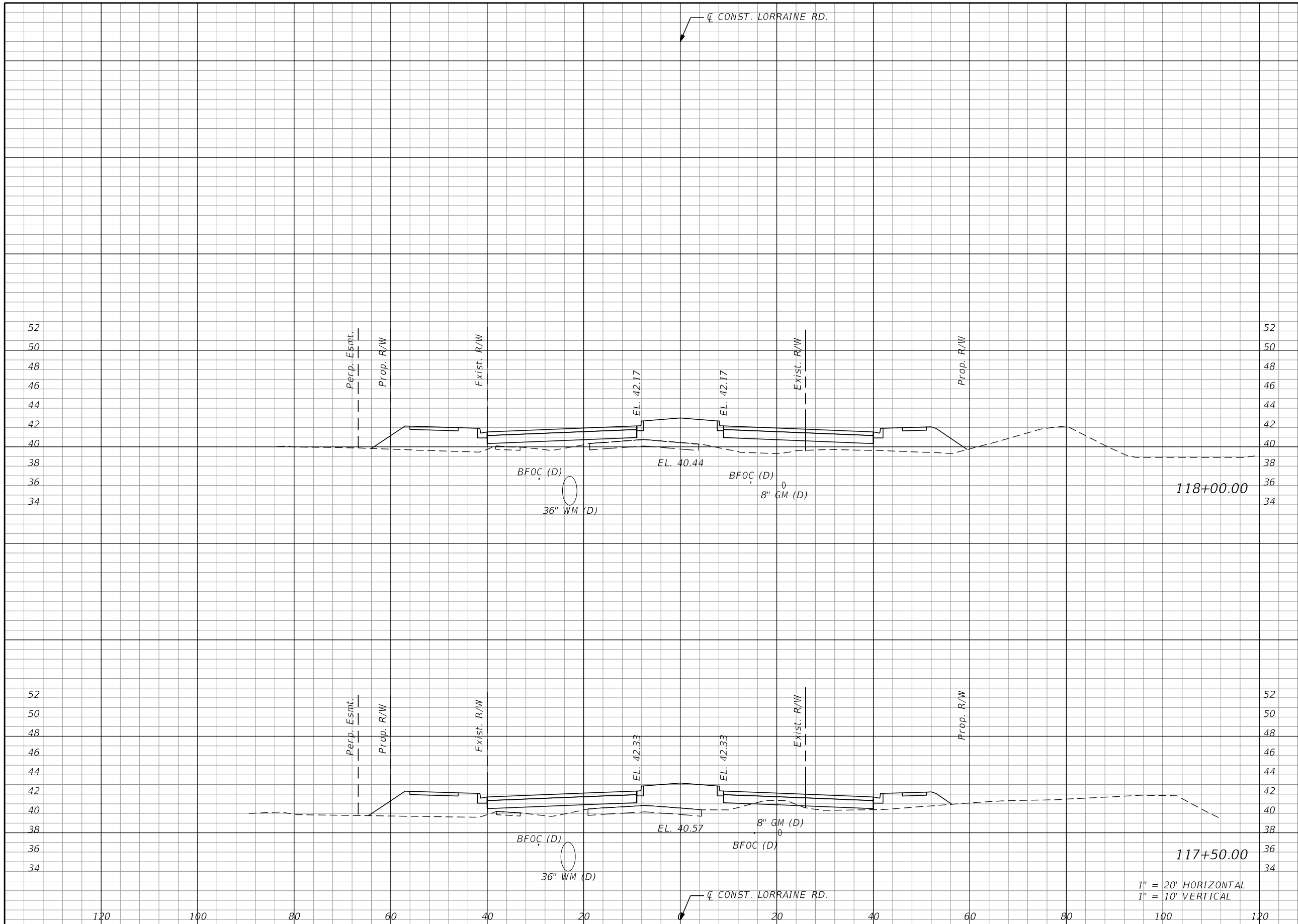
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 88
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE 11/2022
 PROJECT NO. 6107660

Manatee County
 FLORIDA

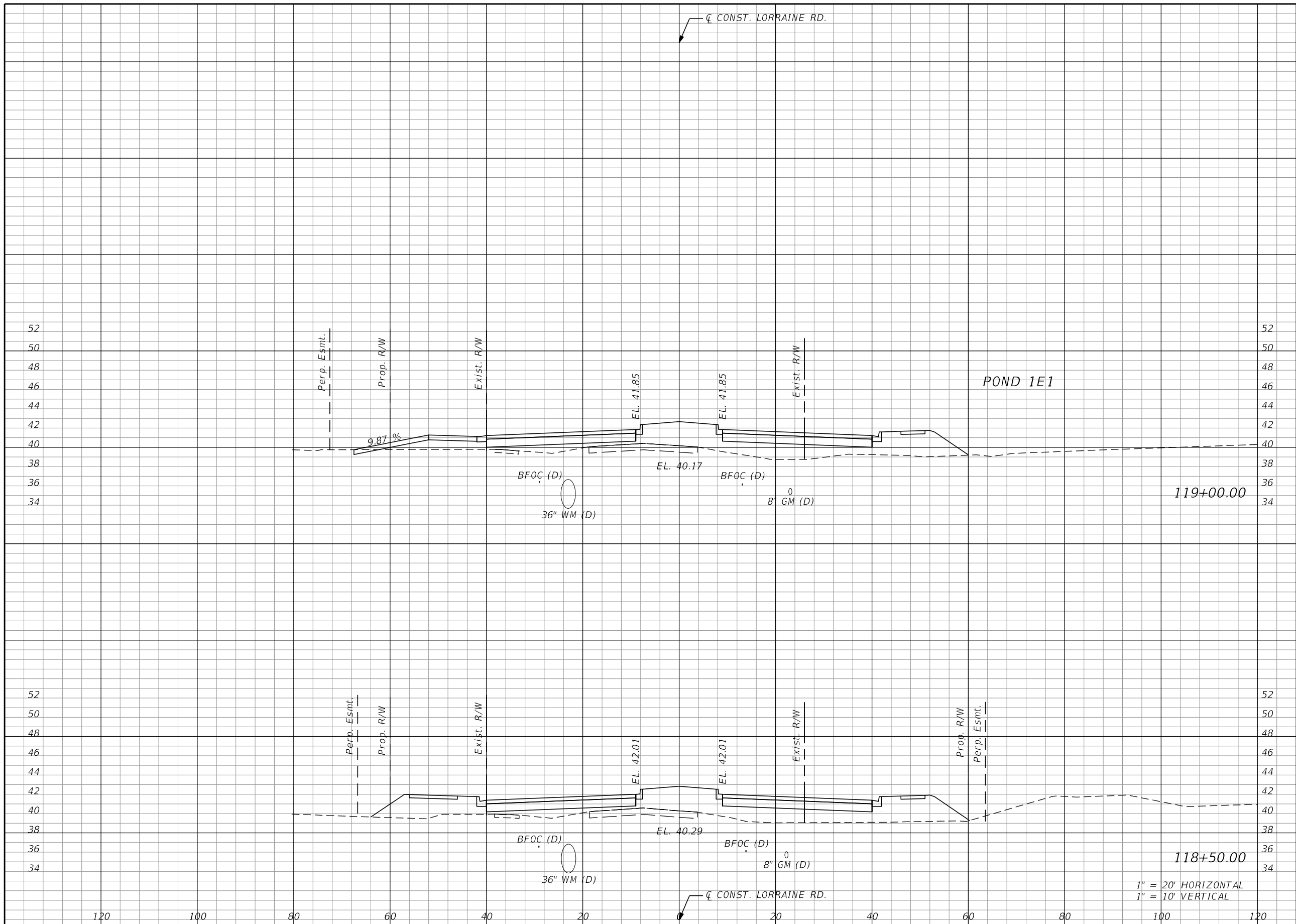
MANATEE COUNTY PUBLIC WORKS

DESIGN ENGINEER
 BRIAN L. ZIMMERMAN
 FL. LICENSE NO. 78557

CROSS SECTIONS

SHEET NO. 89

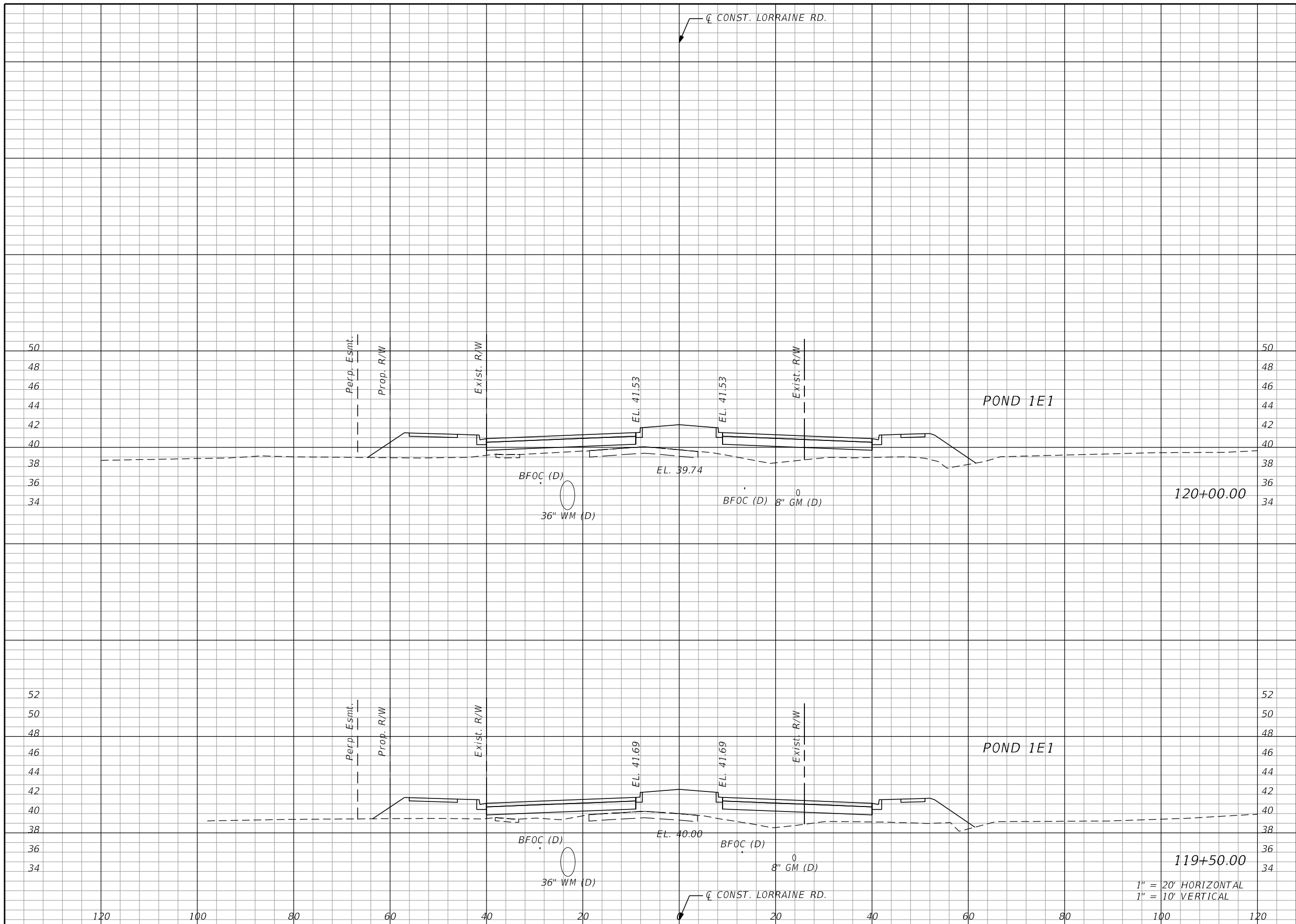
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 90
PROJECT NO. 6107660	No. REVISIONS DATE BY						

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	A	V

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE 11/2022
 PROJECT NO. 6107660

Manatee County
 FLORIDA

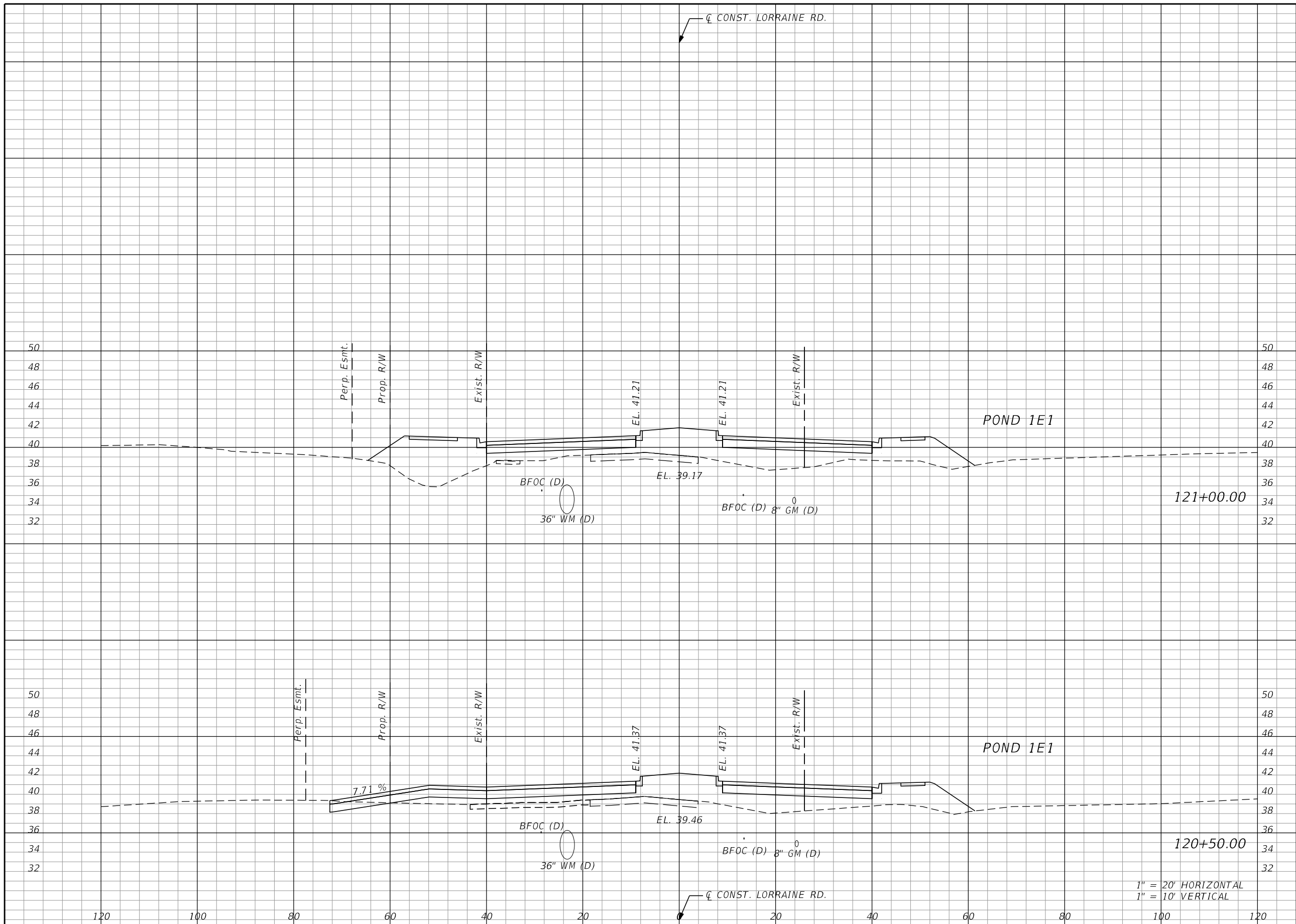
MANATEE COUNTY PUBLIC WORKS

DESIGN ENGINEER
 BRIAN L. ZIMMERMAN
 FL. LICENSE NO. 78557

CROSS SECTIONS

SHEET NO. 91

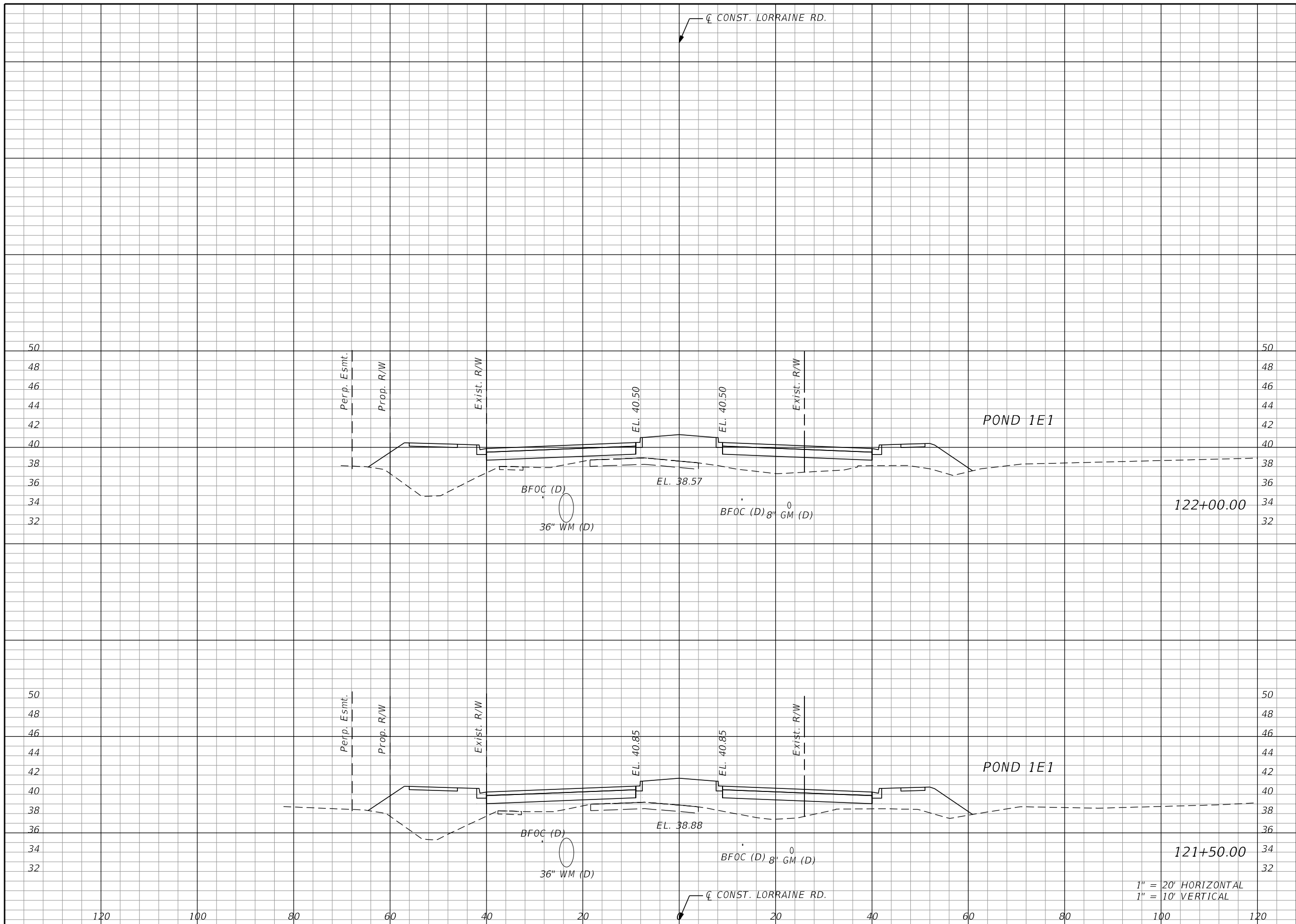
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 92
PROJECT NO. 6107660							

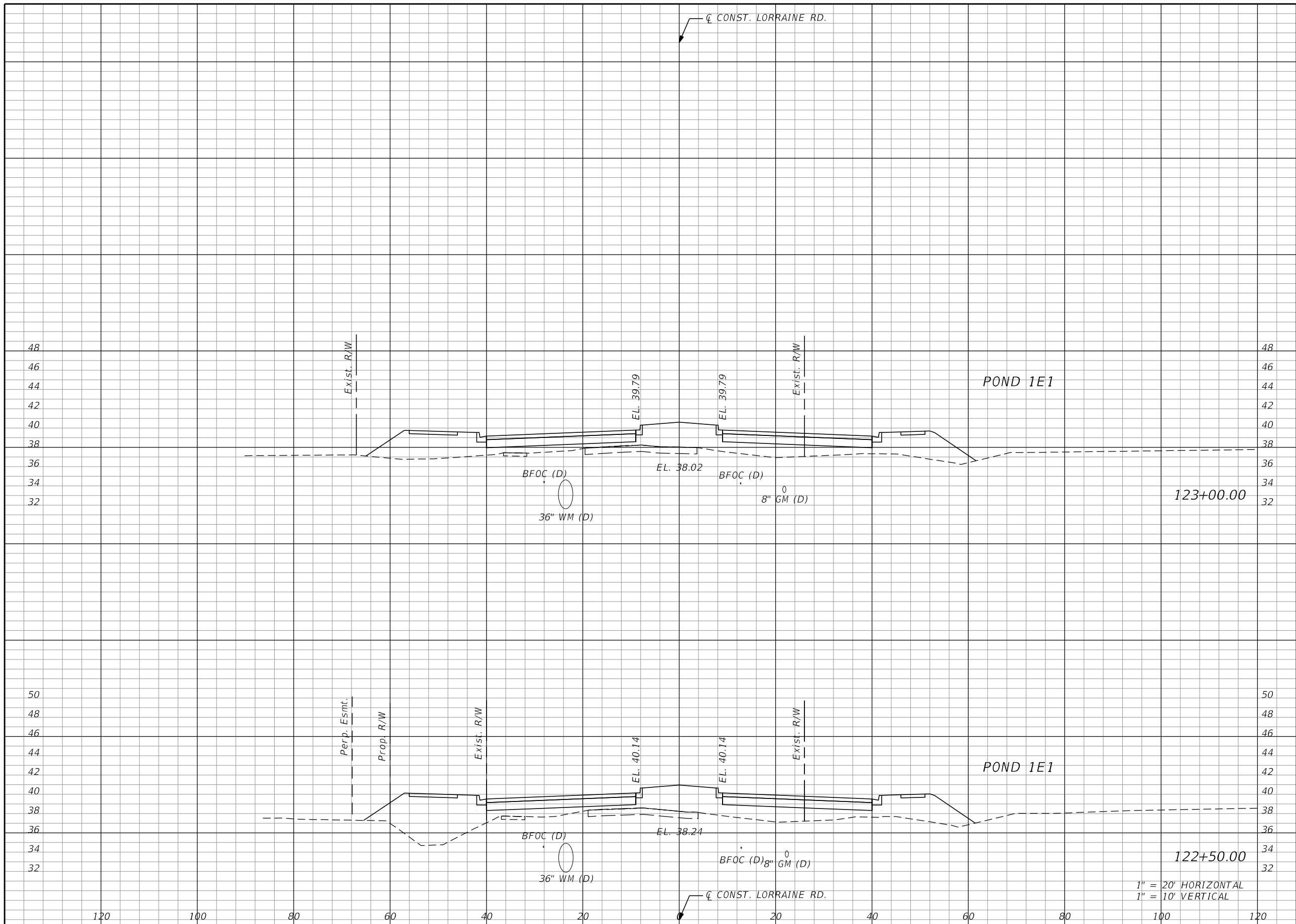
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 93
PROJECT NO. 6107660			1" = 20' HORIZONTAL 1" = 10' VERTICAL				

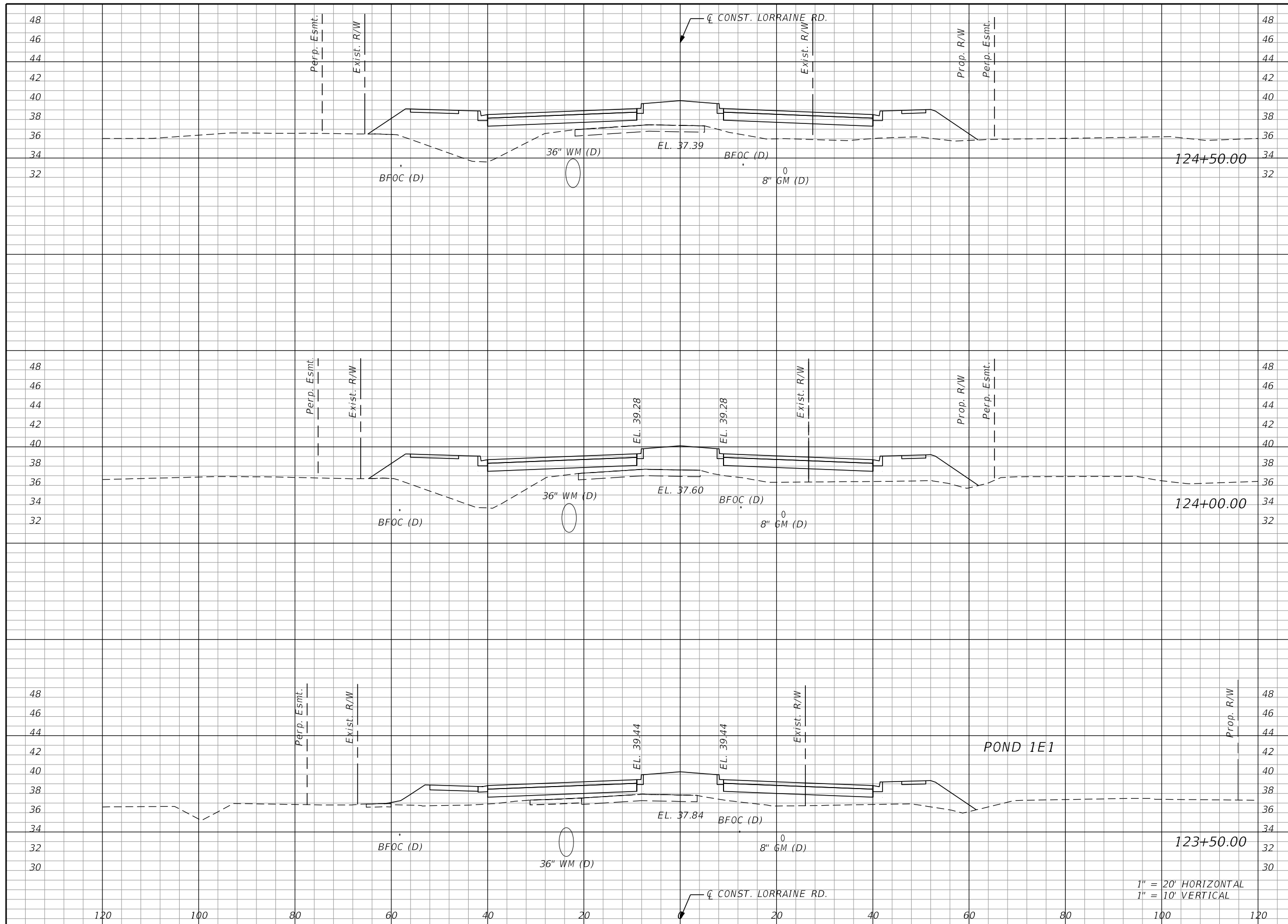
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 94
PROJECT NO. 6107660			DATE 11/30/2022 11:41:39 AM Rdxsrd_shg				

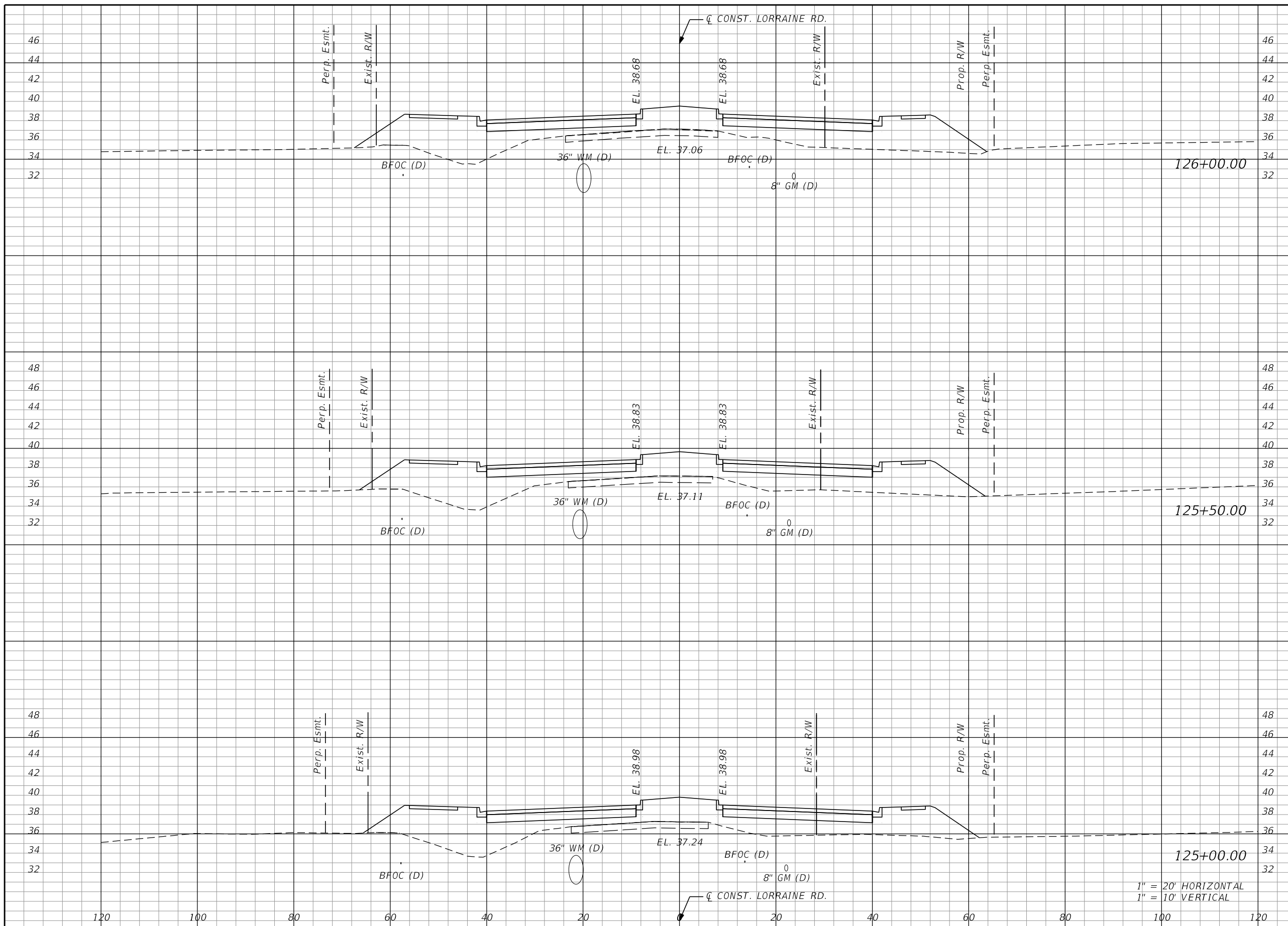
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 95
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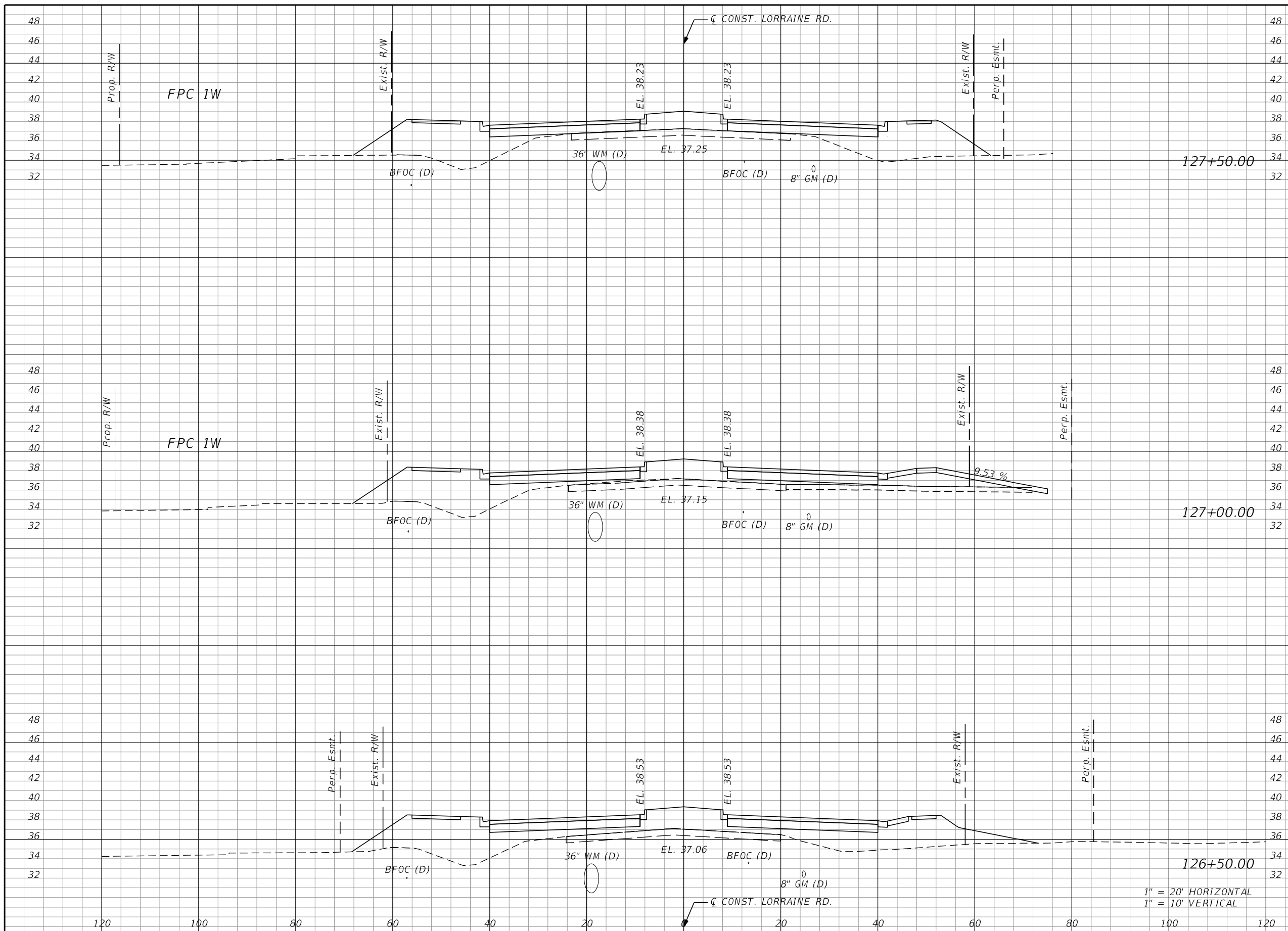
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	CROSS SECTIONS	SHEET NO.
DESIGNED BY			11/2022		BRIAN L. ZIMMERMAN		96
DRAWN BY			PROJECT NO.		FL. LICENSE NO.		
CHECKED BY			6107660		78557		

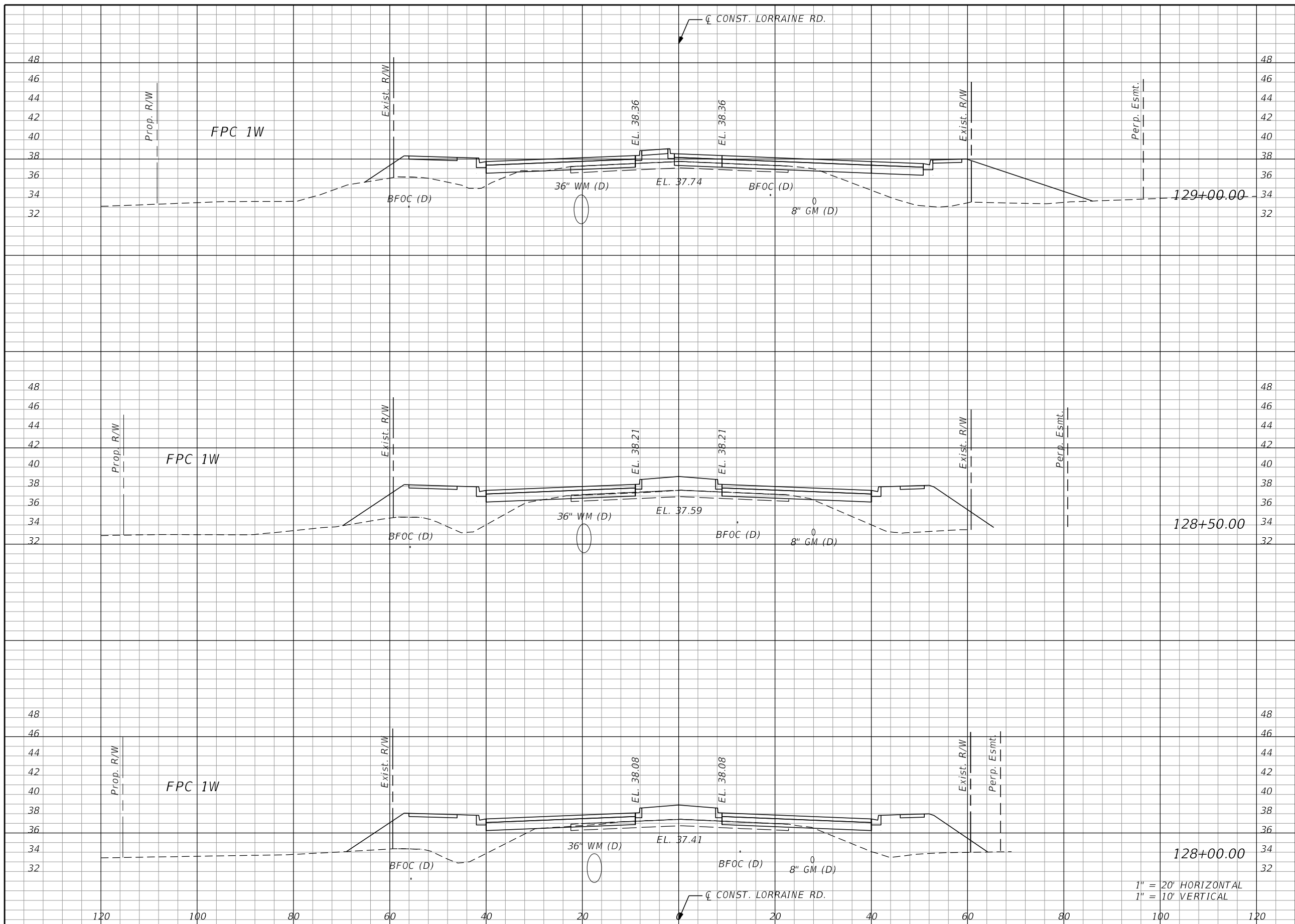
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		SHEET NO. 97
No. REVISIONS DATE BY						CROSS SECTIONS		

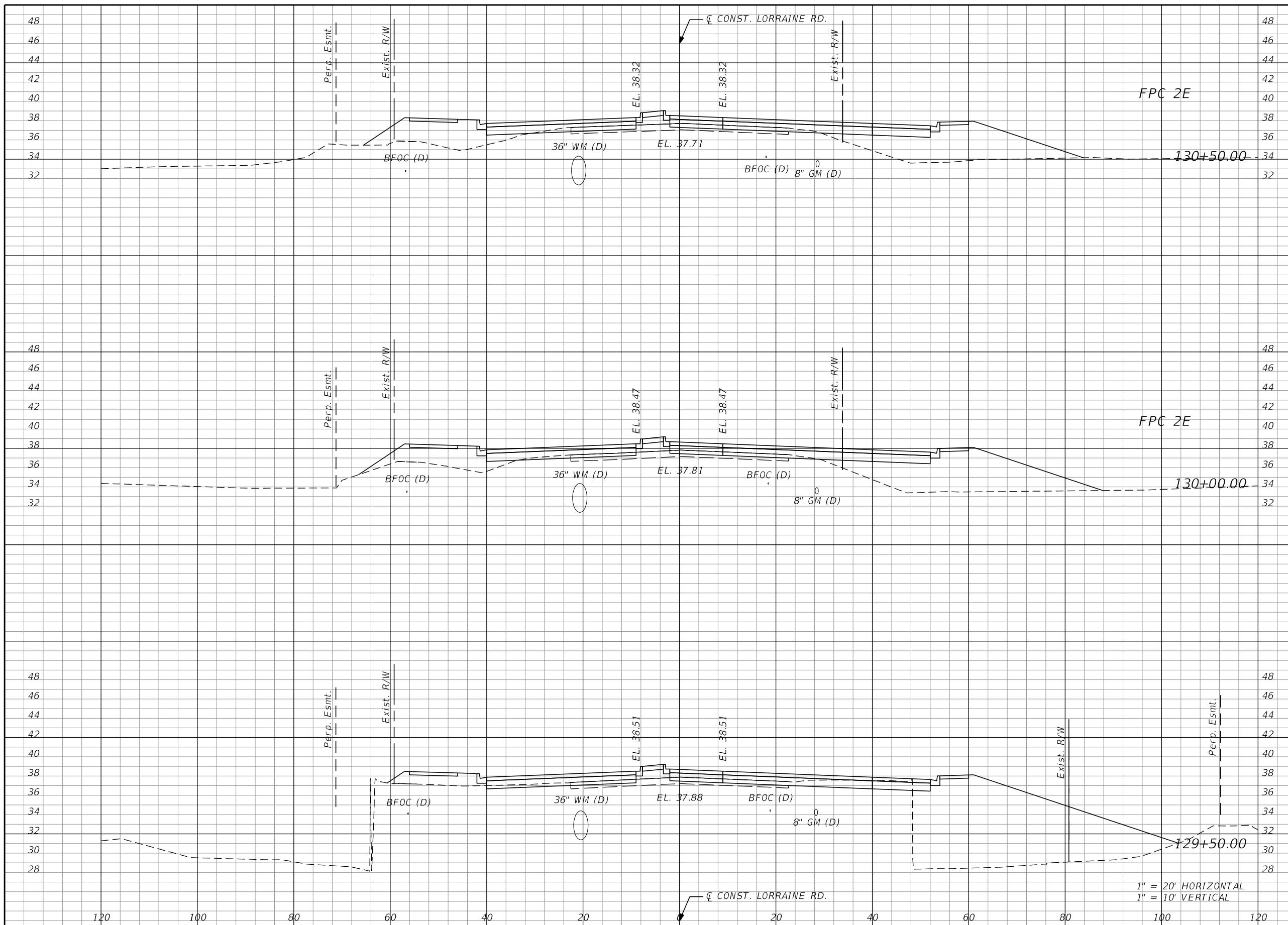
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS	<p>HDR HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609</p>	DATE 11/2022 PROJECT NO. 6107660	<p>MANATEE COUNTY PUBLIC WORKS</p>	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	<p style="font-size: 24px; font-weight: bold;">CROSS SECTIONS</p>	SHEET NO. <div style="font-size: 24px; font-weight: bold;">98</div>
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6107660

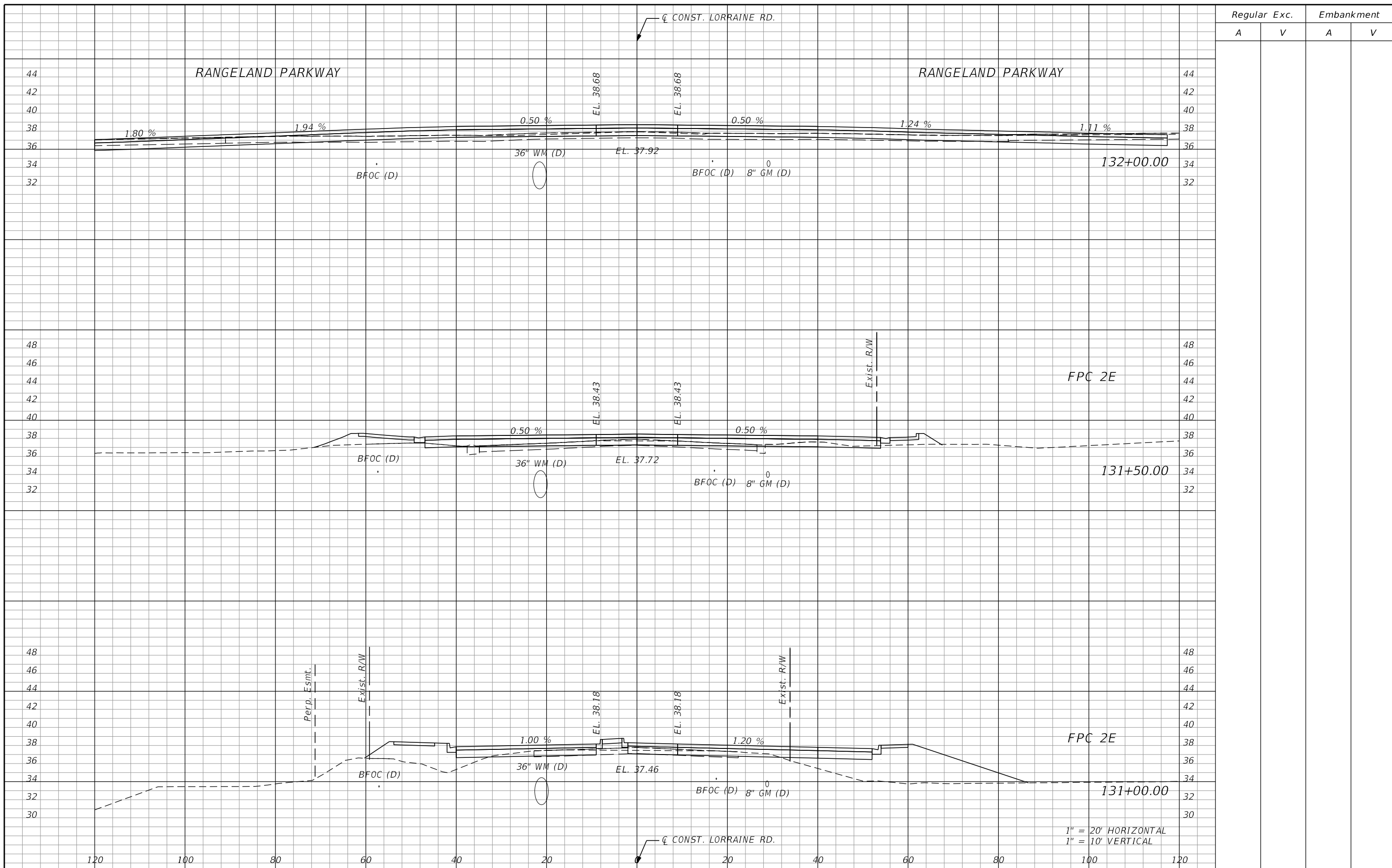
Manatee County
 MANATEE COUNTY
 PUBLIC WORKS

DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557

CROSS SECTIONS

SHEET NO.	99
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
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HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6107660

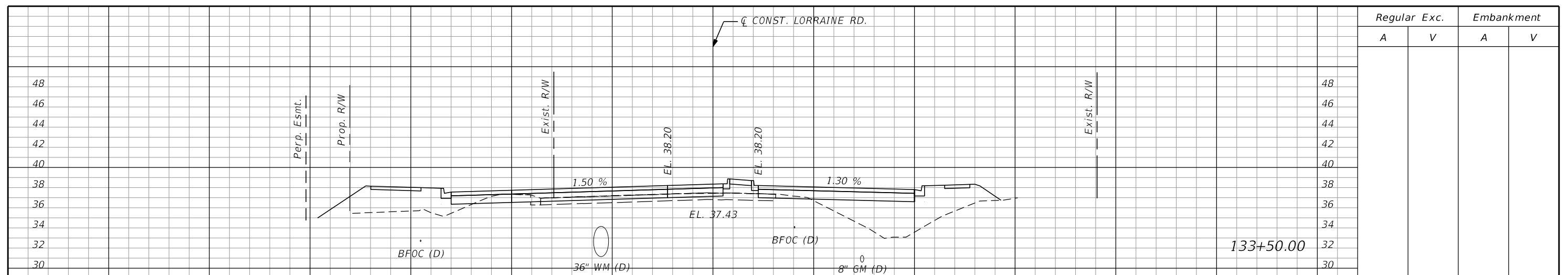
Manatee County
 MANATEE COUNTY
 PUBLIC WORKS

DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557

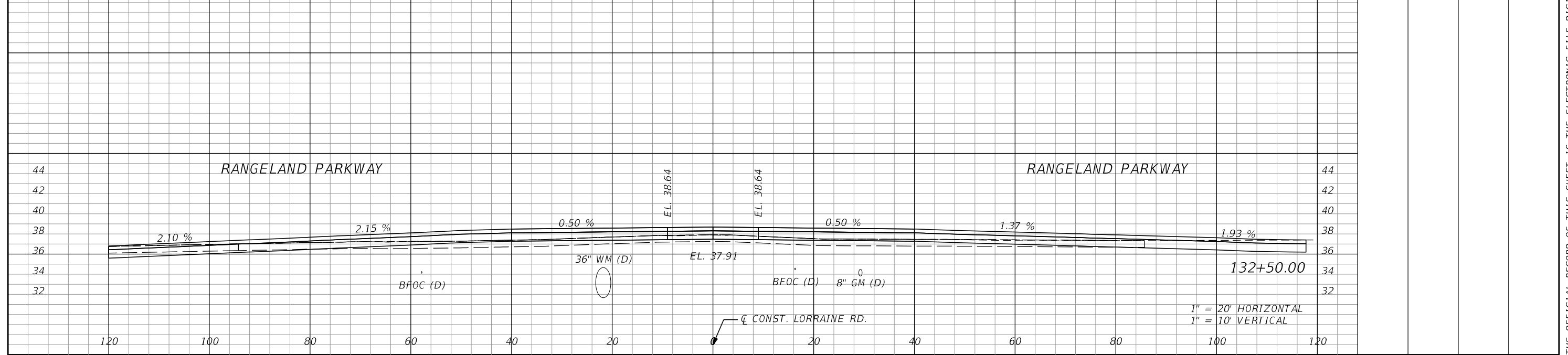
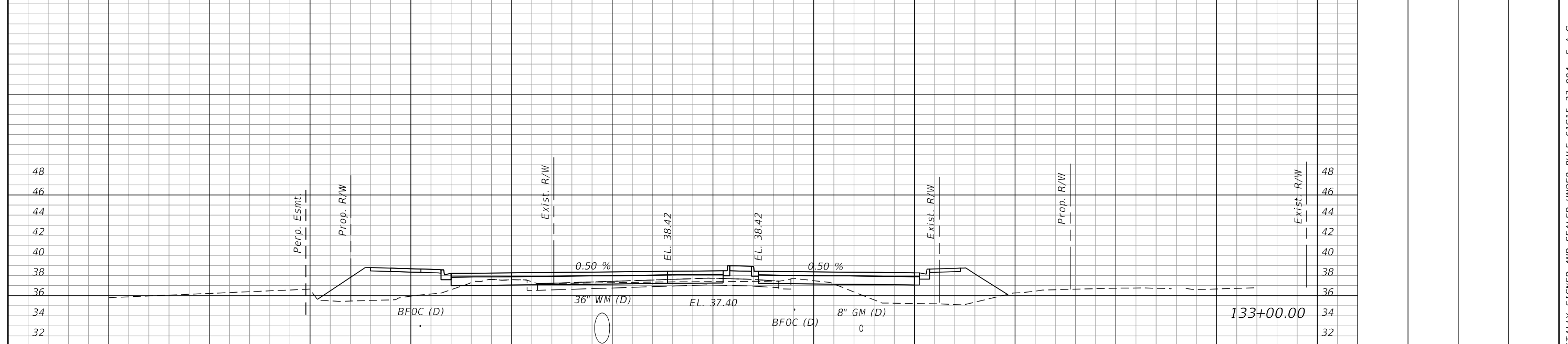
CROSS SECTIONS

SHEET NO.	100
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



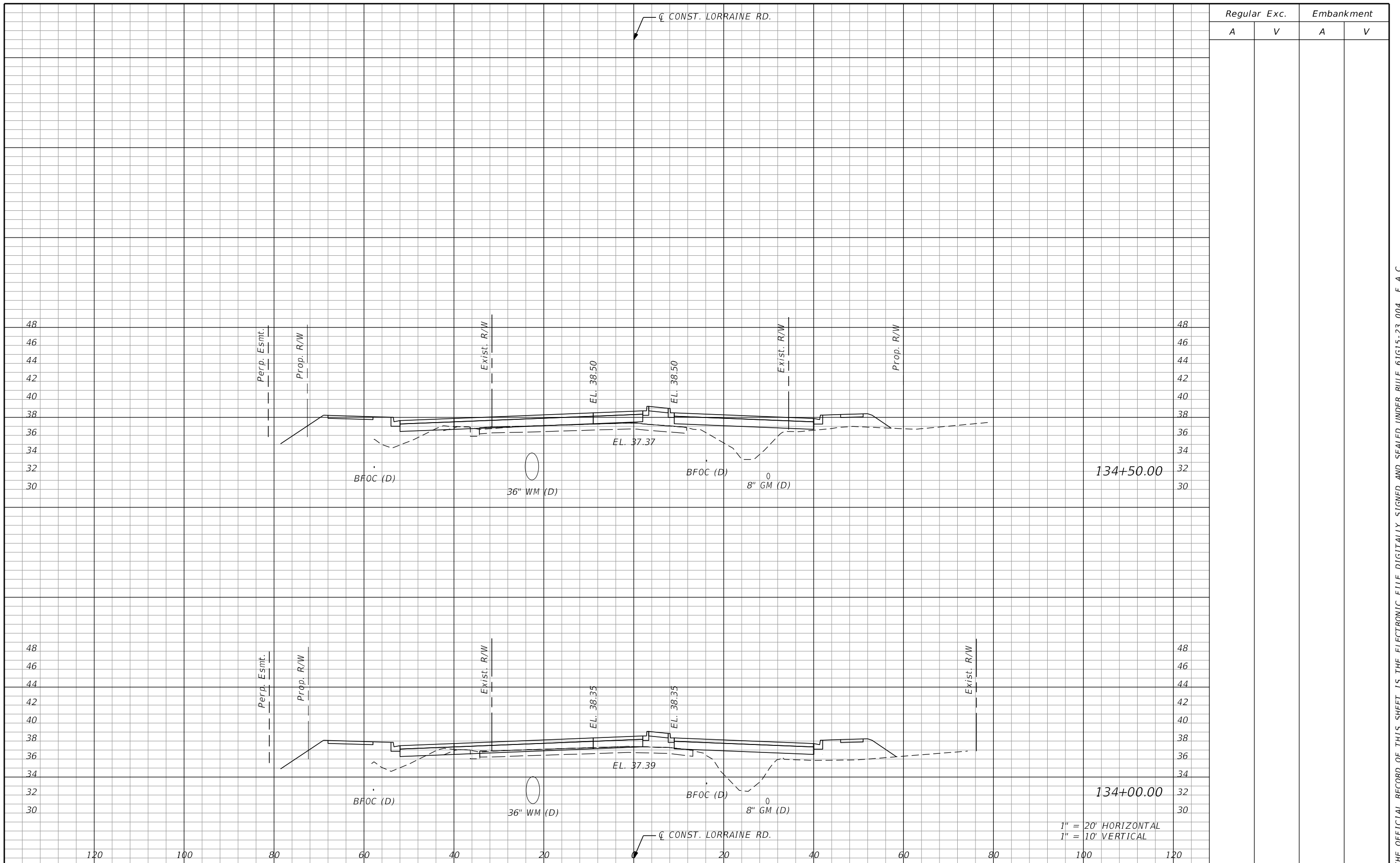
Regular Exc.		Embankment	
A	V	A	V



1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY	HDR	SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS	DATE 11/2022 PROJECT NO. 6107660	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	<h3>CROSS SECTIONS</h3>	SHEET NO. 101
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

134+50.00

134+00.00

1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

SCALE AS NOTED

DESIGNED BY **BLZ**

DRAWN BY **JMA**

CHECKED BY **JLS**



HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6107660



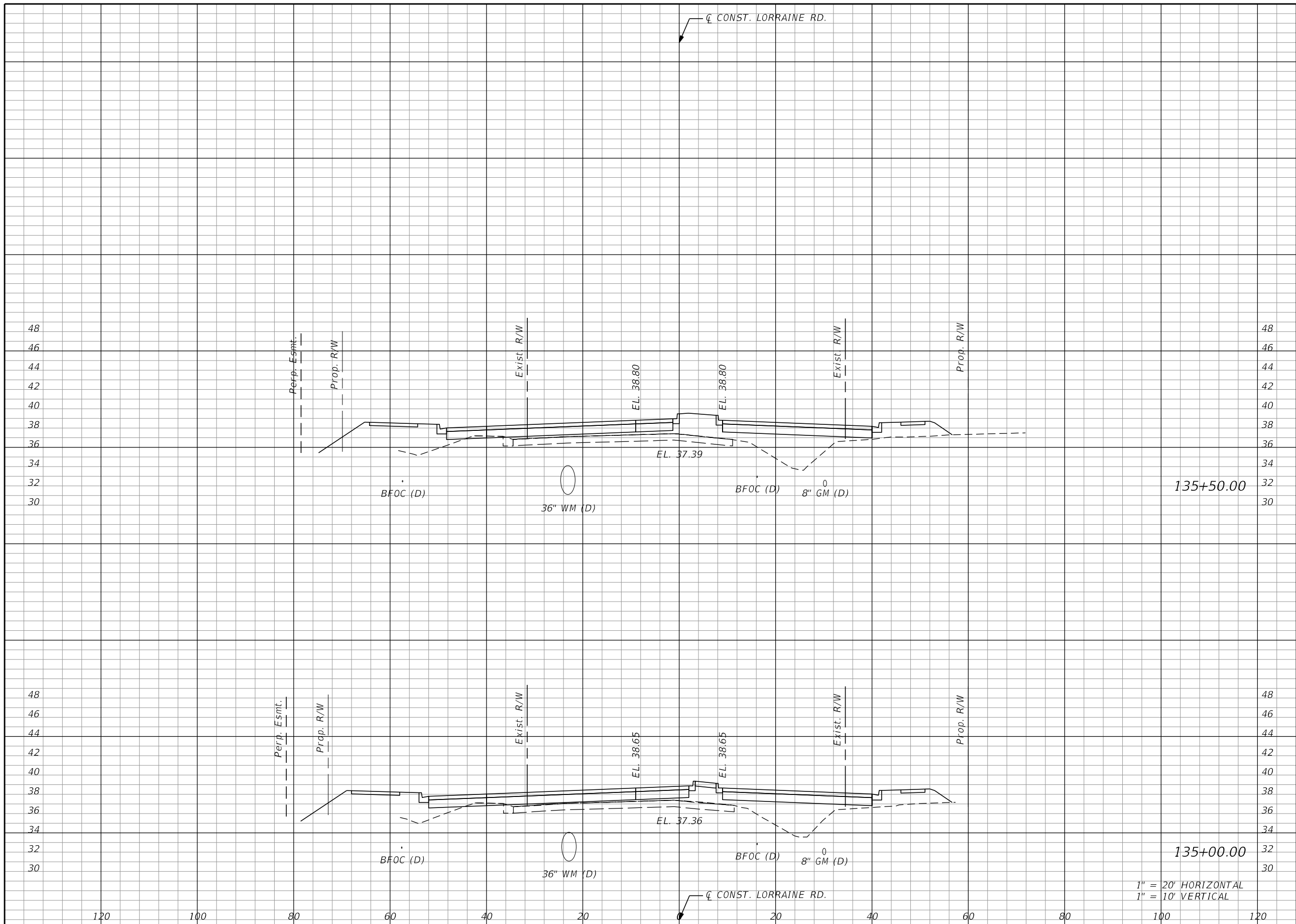
MANATEE COUNTY PUBLIC WORKS

DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557

CROSS SECTIONS

SHEET NO. **102**

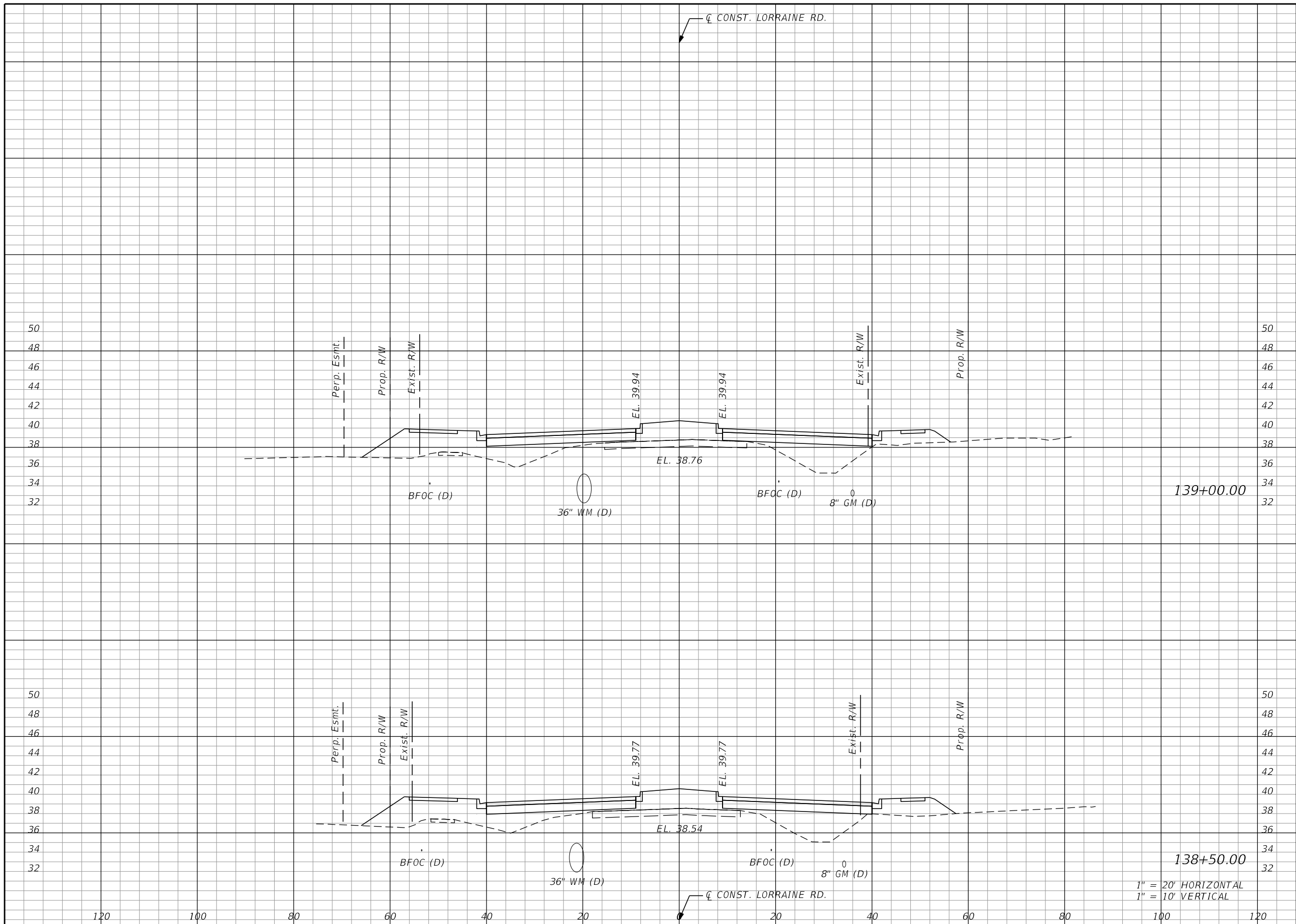
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 103
PROJECT NO. 6107660							

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	A	V

No.	REVISIONS	DATE	BY

SCALE AS NOTED

DESIGNED BY BLZ

DRAWN BY JMA

CHECKED BY JLS

HDR

HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6107660

Manatee County

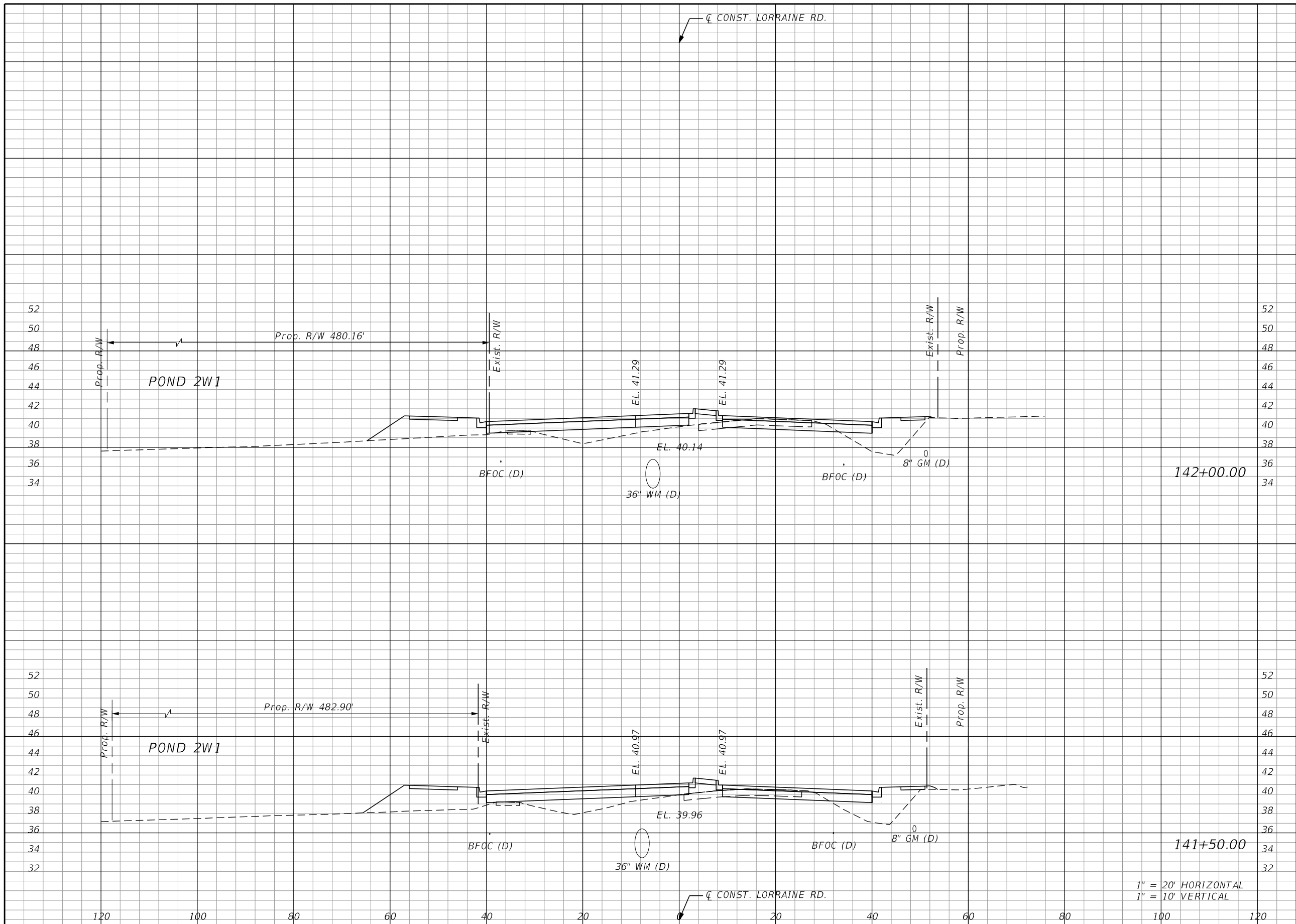
MANATEE COUNTY PUBLIC WORKS

DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557

CROSS SECTIONS

SHEET NO.	106
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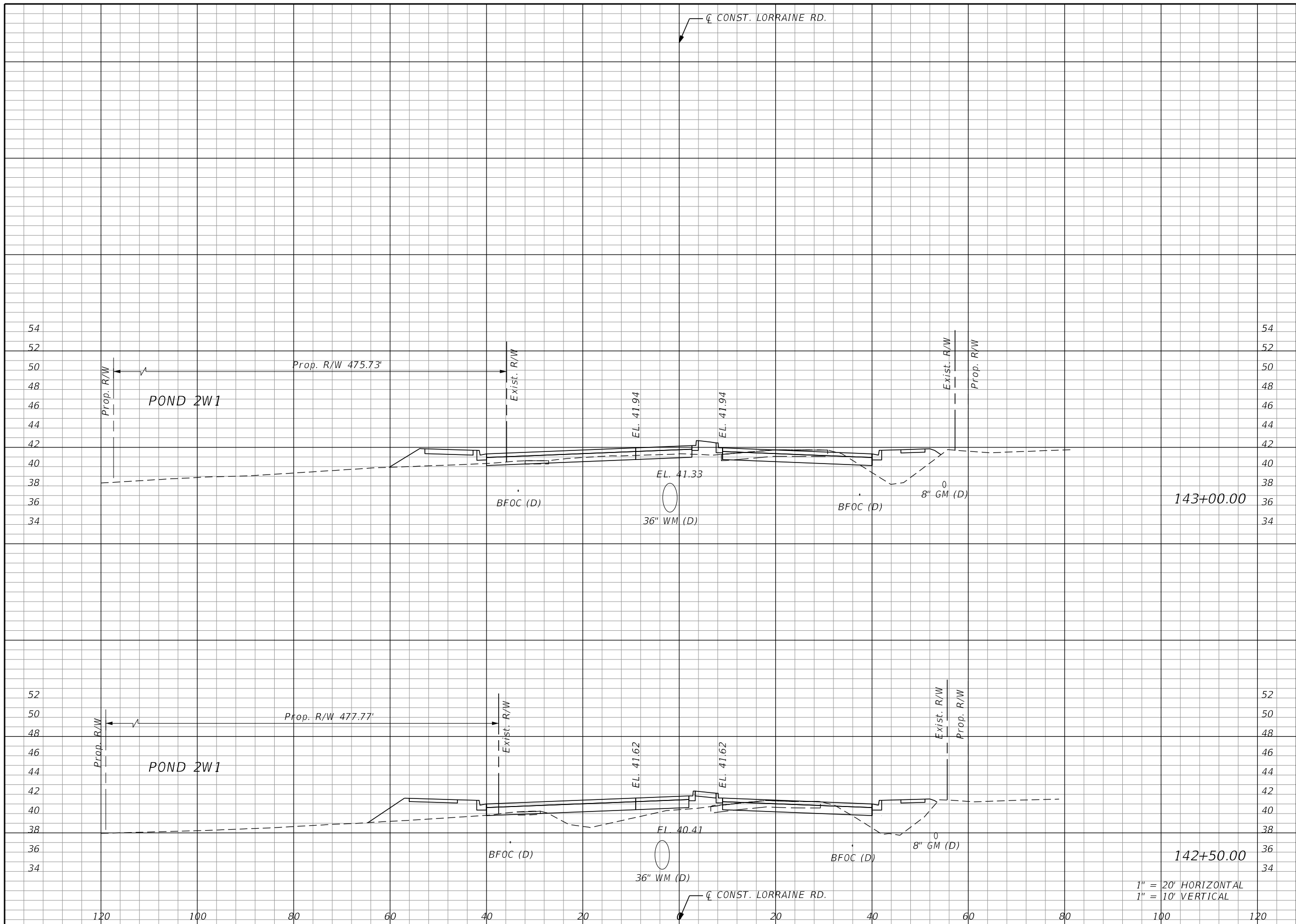
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 109
No. REVISIONS DATE BY			PROJECT NO. 6107660		1" = 20' HORIZONTAL 1" = 10' VERTICAL		

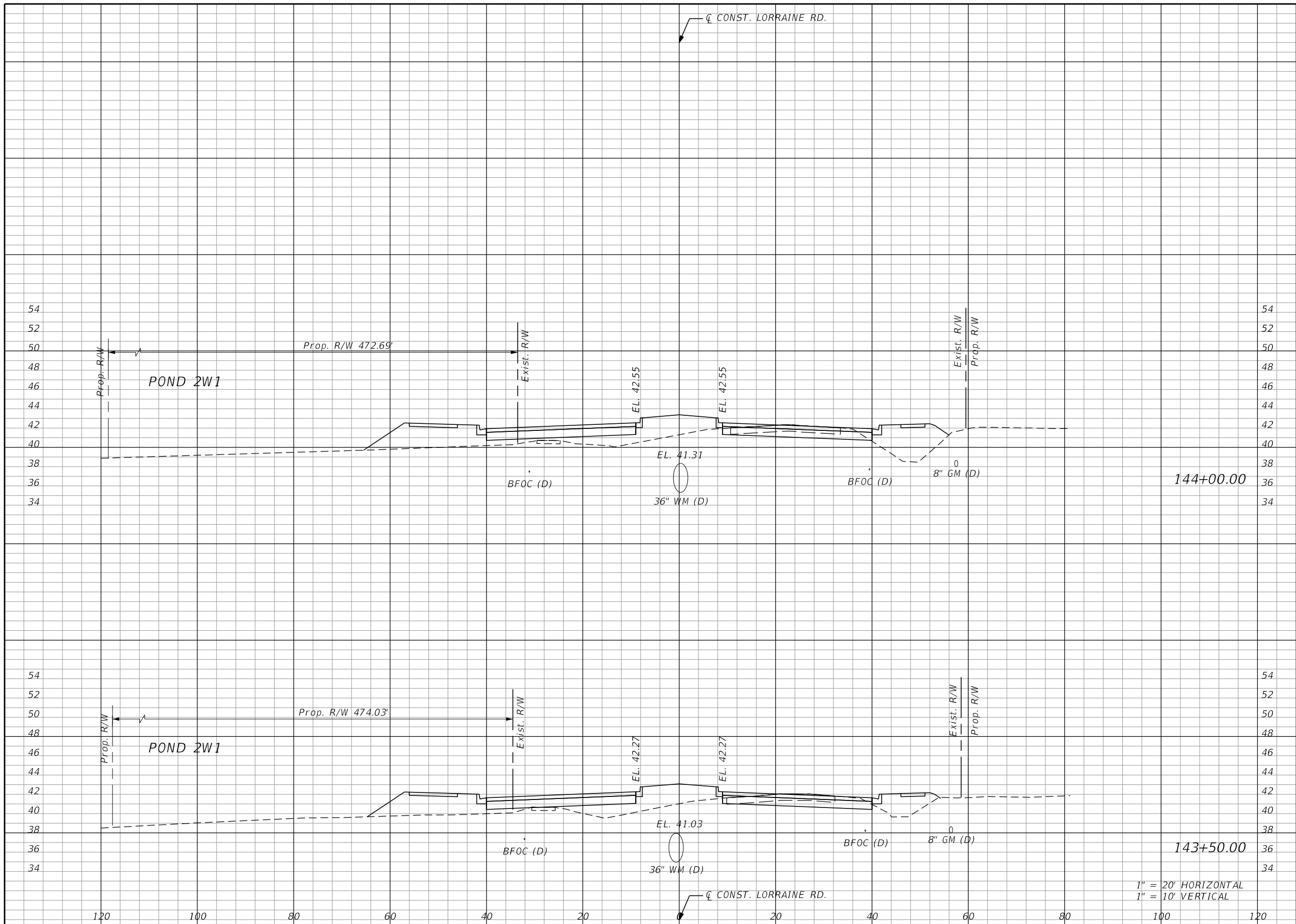
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022 PROJECT NO. 6107660		 MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		CROSS SECTIONS		SHEET NO. 110	
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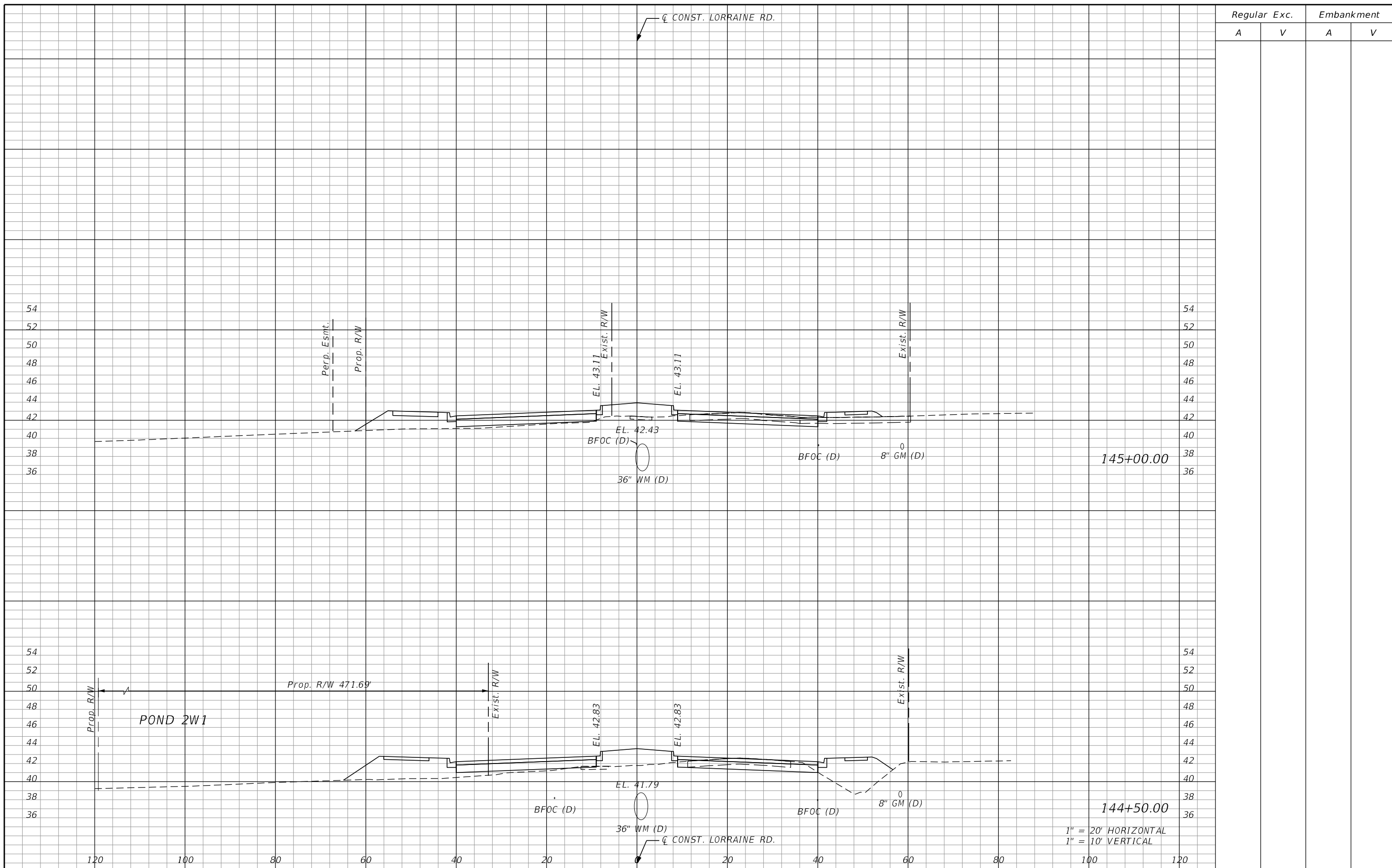
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 111
PROJECT NO. 6107660			1" = 20' HORIZONTAL 1" = 10' VERTICAL				

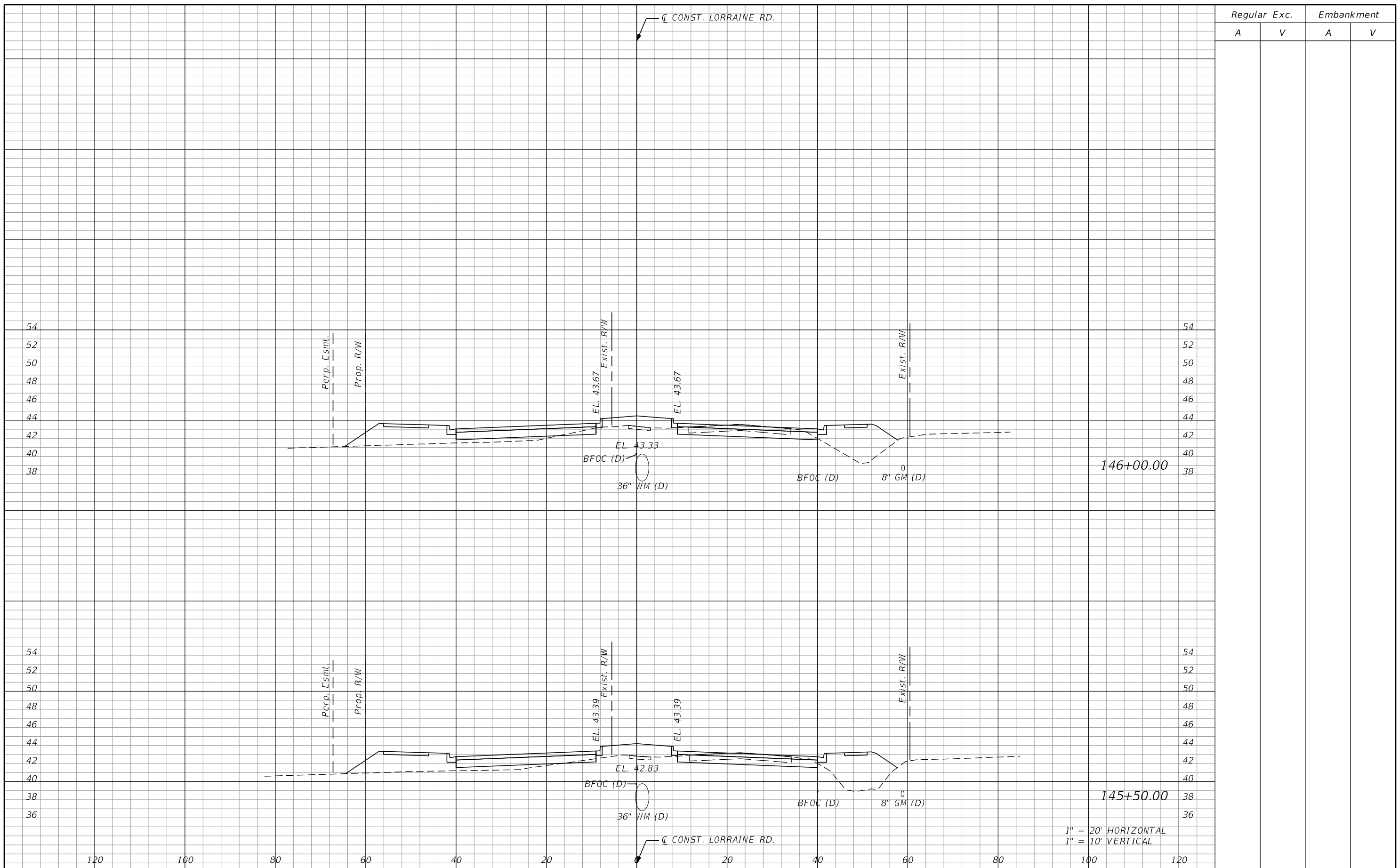
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS				HDR HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022 PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		CROSS SECTIONS		SHEET NO. 112	
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

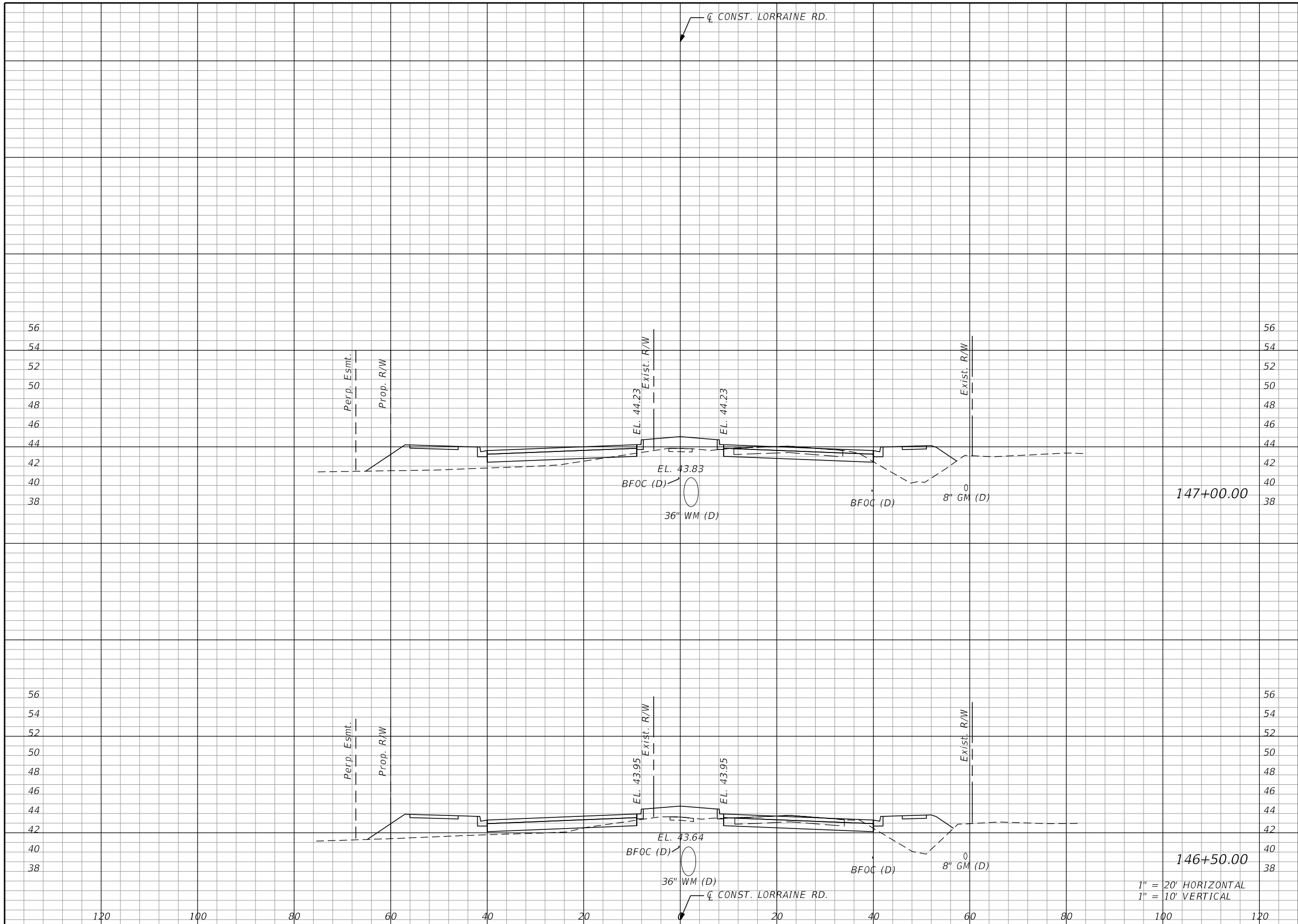
146+00.00

145+50.00

1" = 20' HORIZONTAL
1" = 10' VERTICAL

<table border="1"> <tr><td>SCALE</td><td>AS NOTED</td></tr> <tr><td>DESIGNED BY</td><td>BLZ</td></tr> <tr><td>DRAWN BY</td><td>JMA</td></tr> <tr><td>CHECKED BY</td><td>JLS</td></tr> </table>			SCALE	AS NOTED	DESIGNED BY	BLZ	DRAWN BY	JMA	CHECKED BY	JLS	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022		 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN	CROSS SECTIONS	SHEET NO. 113
SCALE	AS NOTED																
DESIGNED BY	BLZ																
DRAWN BY	JMA																
CHECKED BY	JLS																
<table border="1"> <tr><th>No.</th><th>REVISIONS</th><th>DATE</th><th>BY</th></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>			No.	REVISIONS	DATE	BY					PROJECT NO. 6107660		FL. LICENSE NO. 78557				
No.	REVISIONS	DATE	BY														

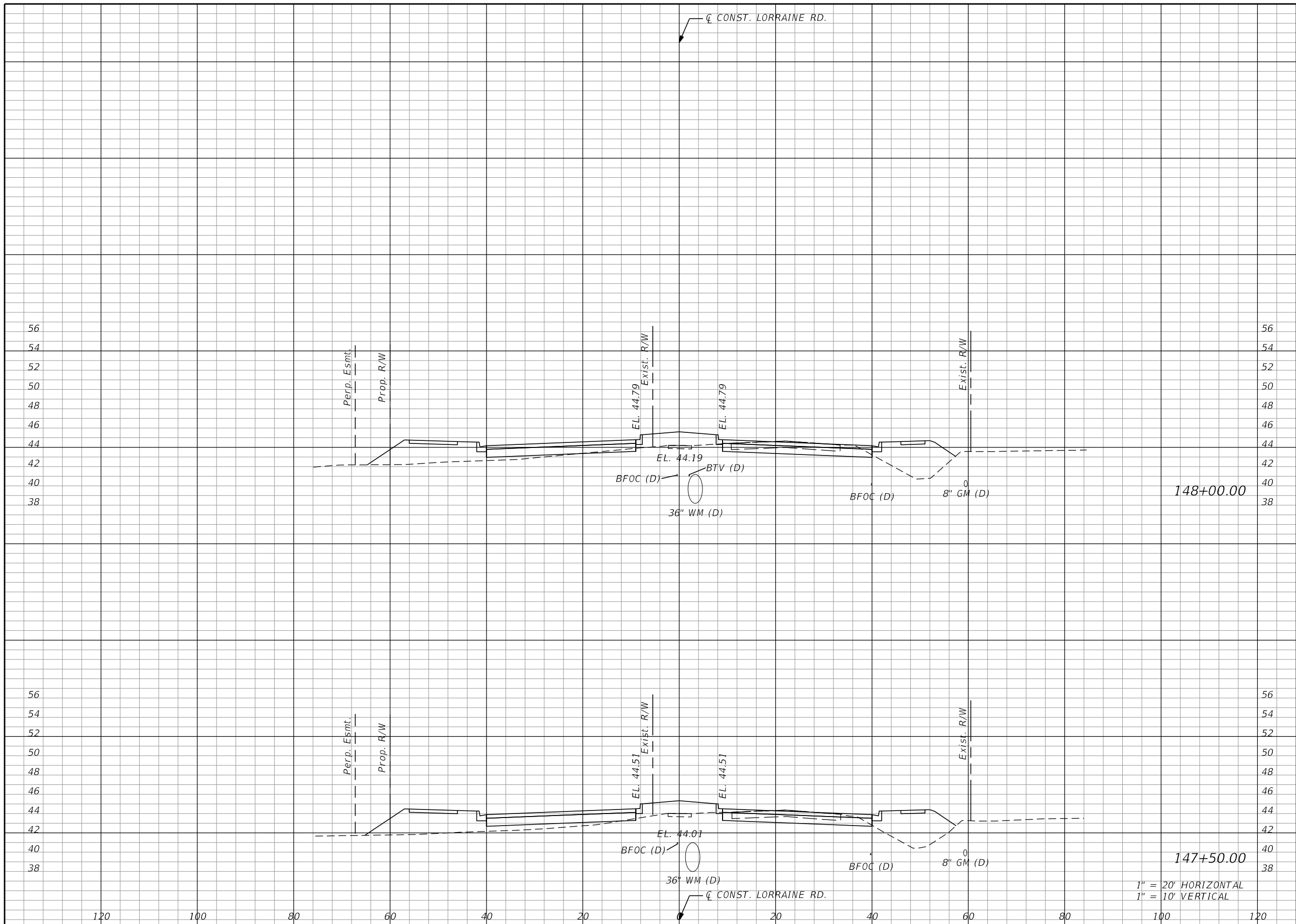
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 114
No. REVISIONS DATE BY			PROJECT NO. 6107660		1" = 20' HORIZONTAL 1" = 10' VERTICAL		

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

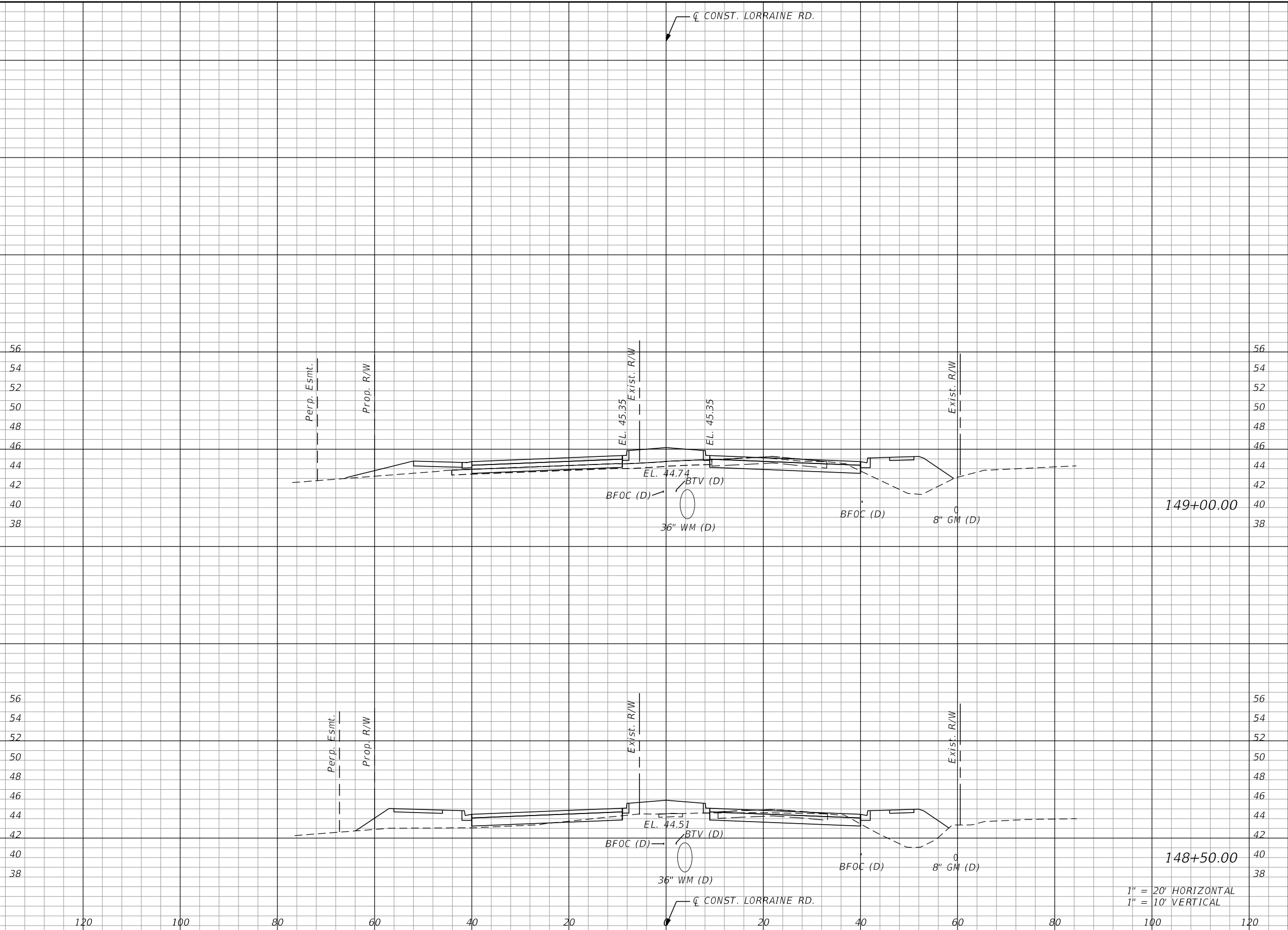


Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 115
No. REVISIONS DATE BY			PROJECT NO. 6107660		pw:\pwhdruseas01\HDR_US_East_01\Documents\3658\10345615\6.0_CAD_BIM\6.2_WIP\12345678910\roadway\RDxSRD01.dgn		

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	A	V



1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

SCALE AS NOTED
DESIGNED BY BLZ
DRAWN BY JMA
CHECKED BY JLS

HDR
HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE 11/2022
PROJECT NO. 6107660



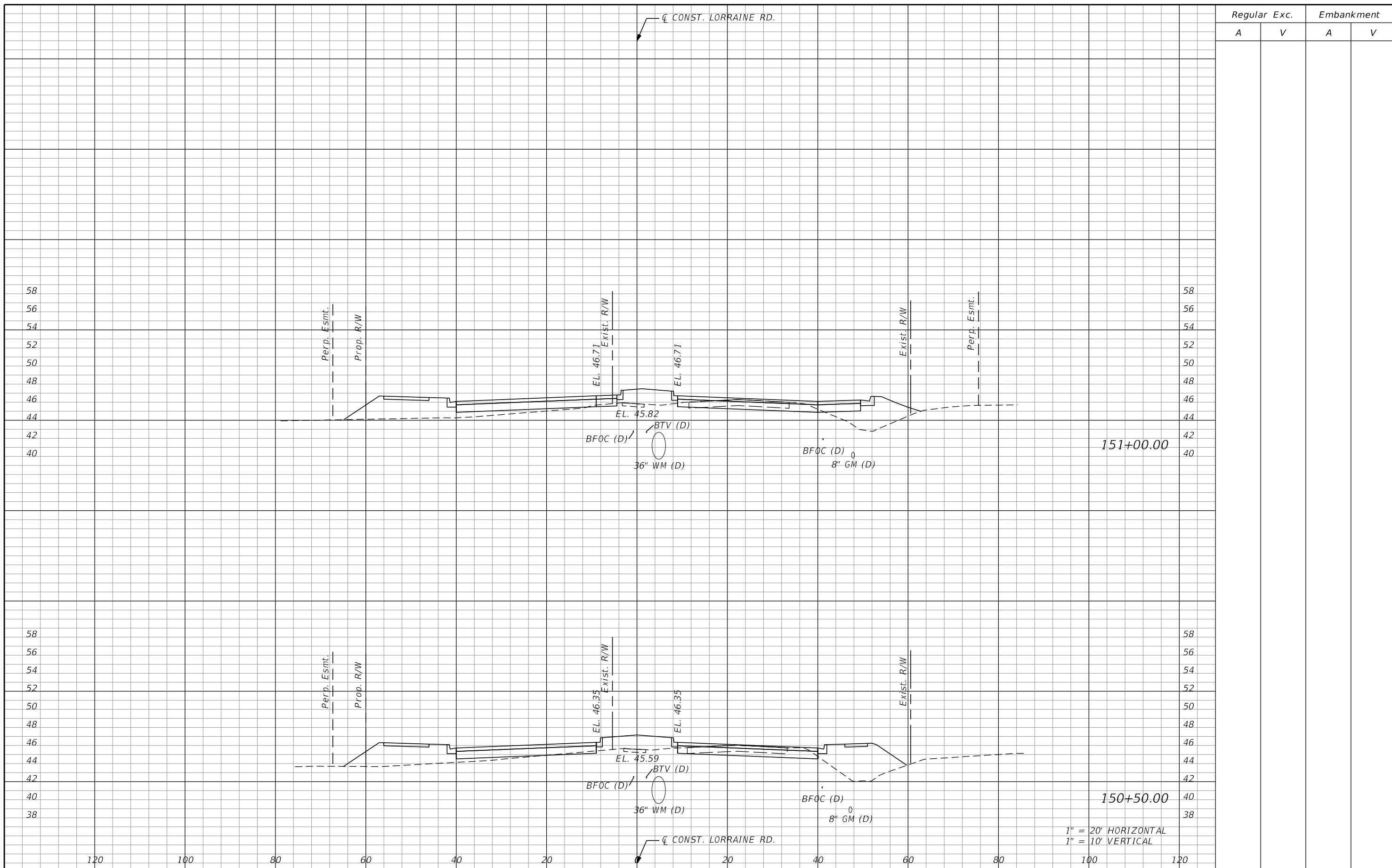
MANATEE COUNTY PUBLIC WORKS

DESIGN ENGINEER
BRIAN L.
ZIMMERMAN
FL. LICENSE NO.
78557

CROSS SECTIONS

SHEET NO.
116

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	A	V

151+00.00

150+50.00

1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE 11/2022
 PROJECT NO. 6107660



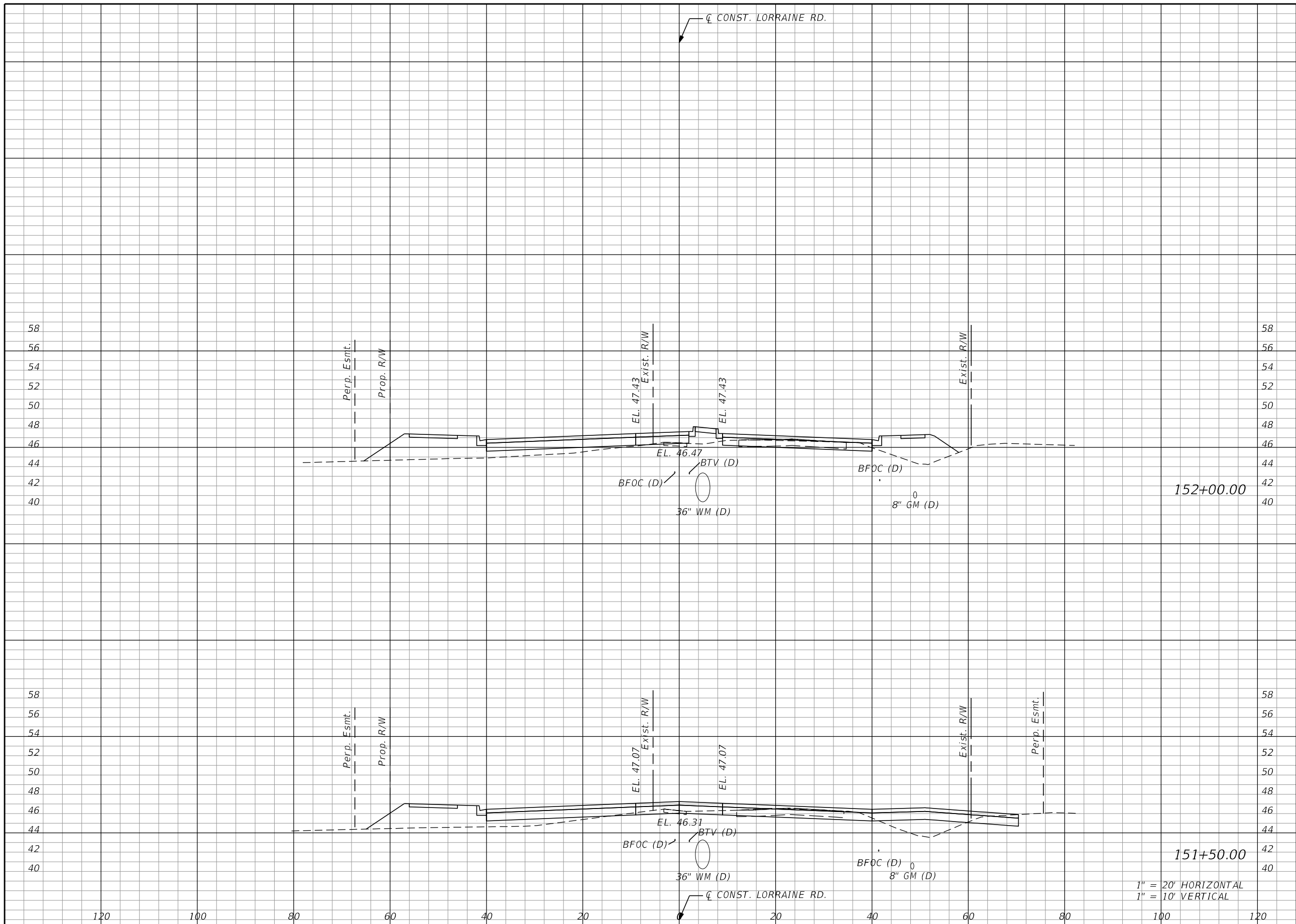
MANATEE COUNTY
 PUBLIC WORKS

DESIGN ENGINEER
 BRIAN L. ZIMMERMAN
 FL. LICENSE NO. 78557

CROSS SECTIONS

SHEET NO.
 118

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

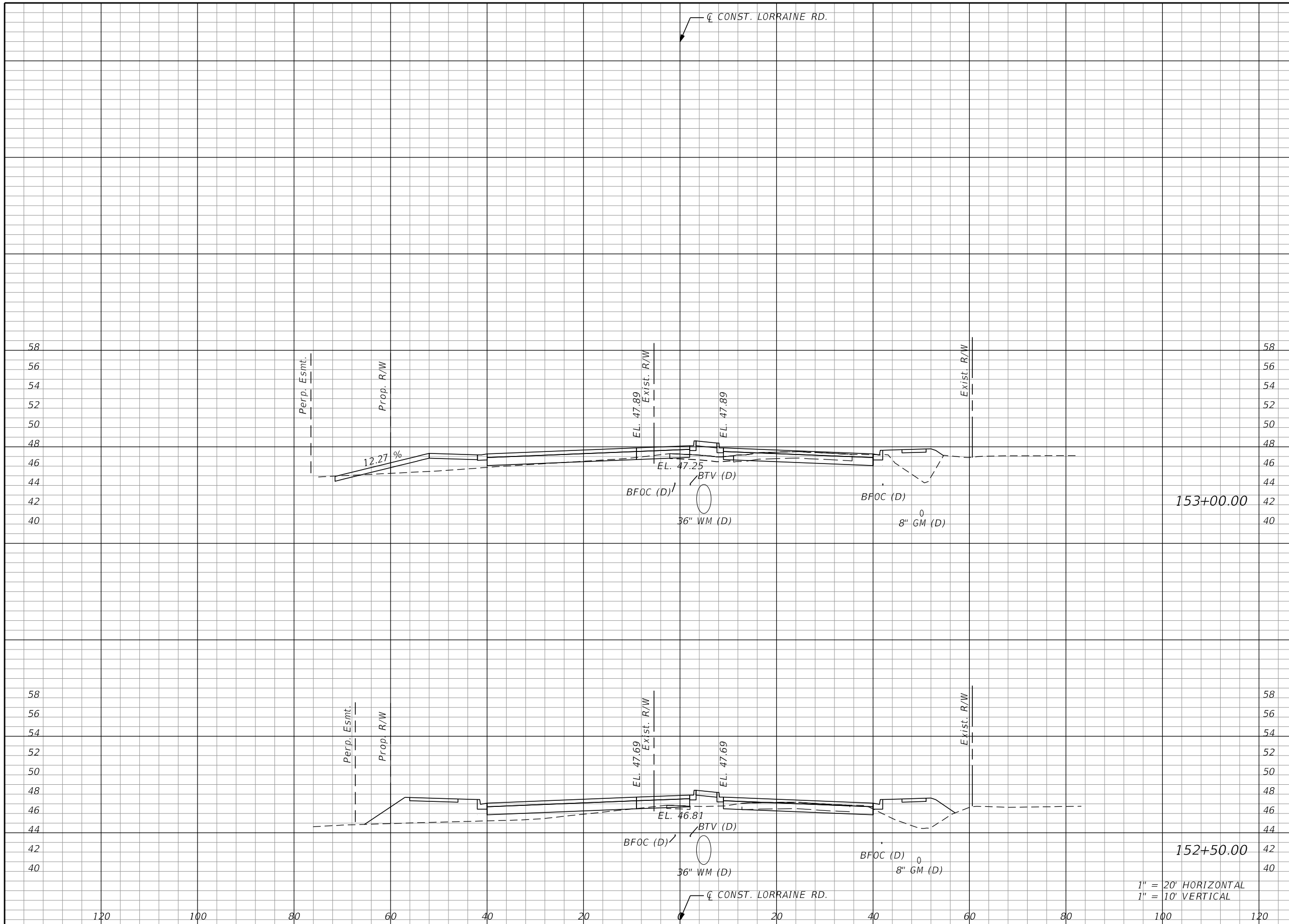


Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 119
No. REVISIONS DATE BY			PROJECT NO. 6107660		1" = 20' HORIZONTAL 1" = 10' VERTICAL		

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	A	V



1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

SCALE AS NOTED

DESIGNED BY BLZ

DRAWN BY JMA

CHECKED BY JLS

HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6107660

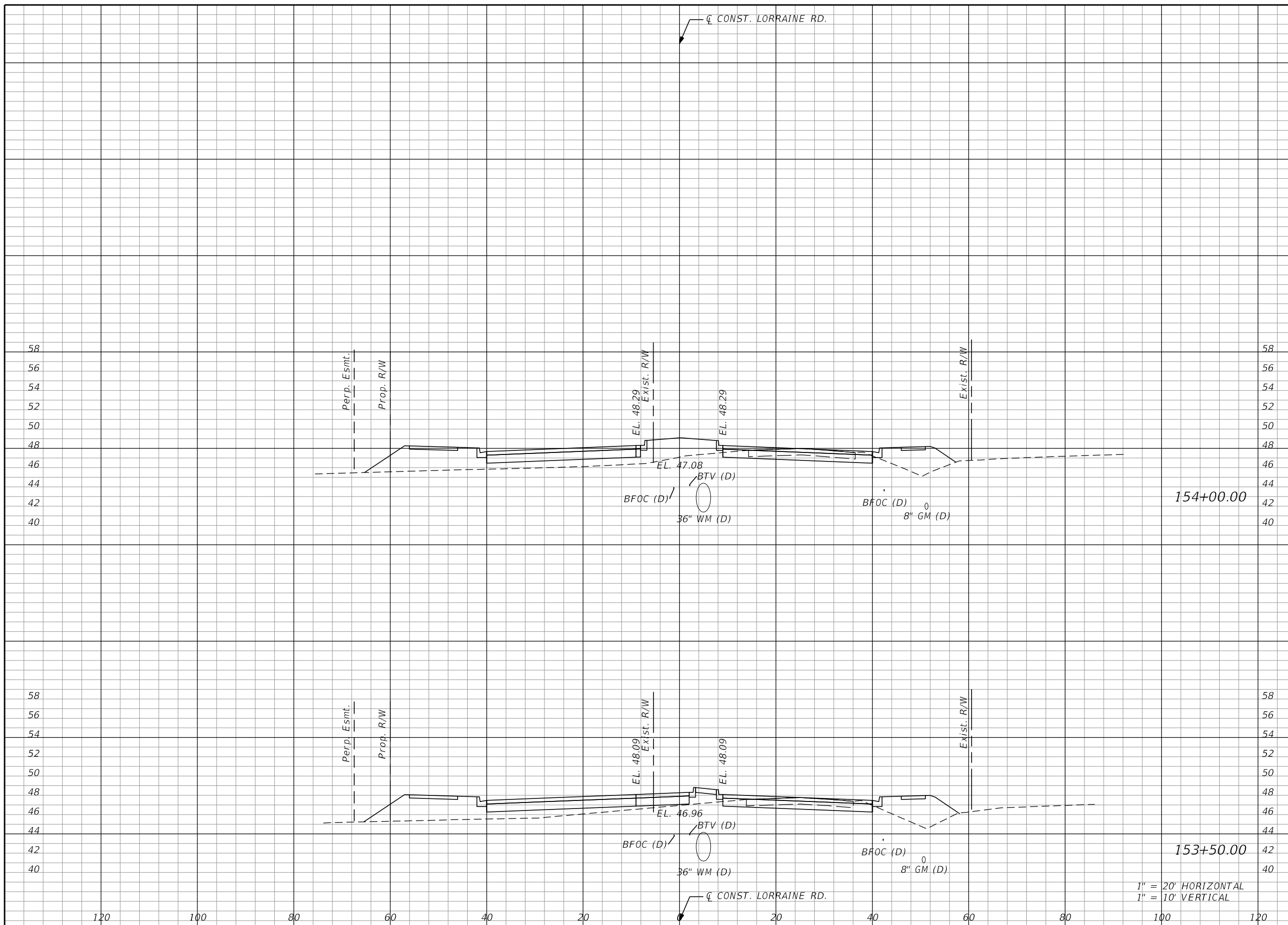
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557

CROSS SECTIONS

SHEET NO.	120
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

SCALE AS NOTED
DESIGNED BY BLZ
DRAWN BY JMA
CHECKED BY JLS

HDR
HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE 11/2022
PROJECT NO. 6107660



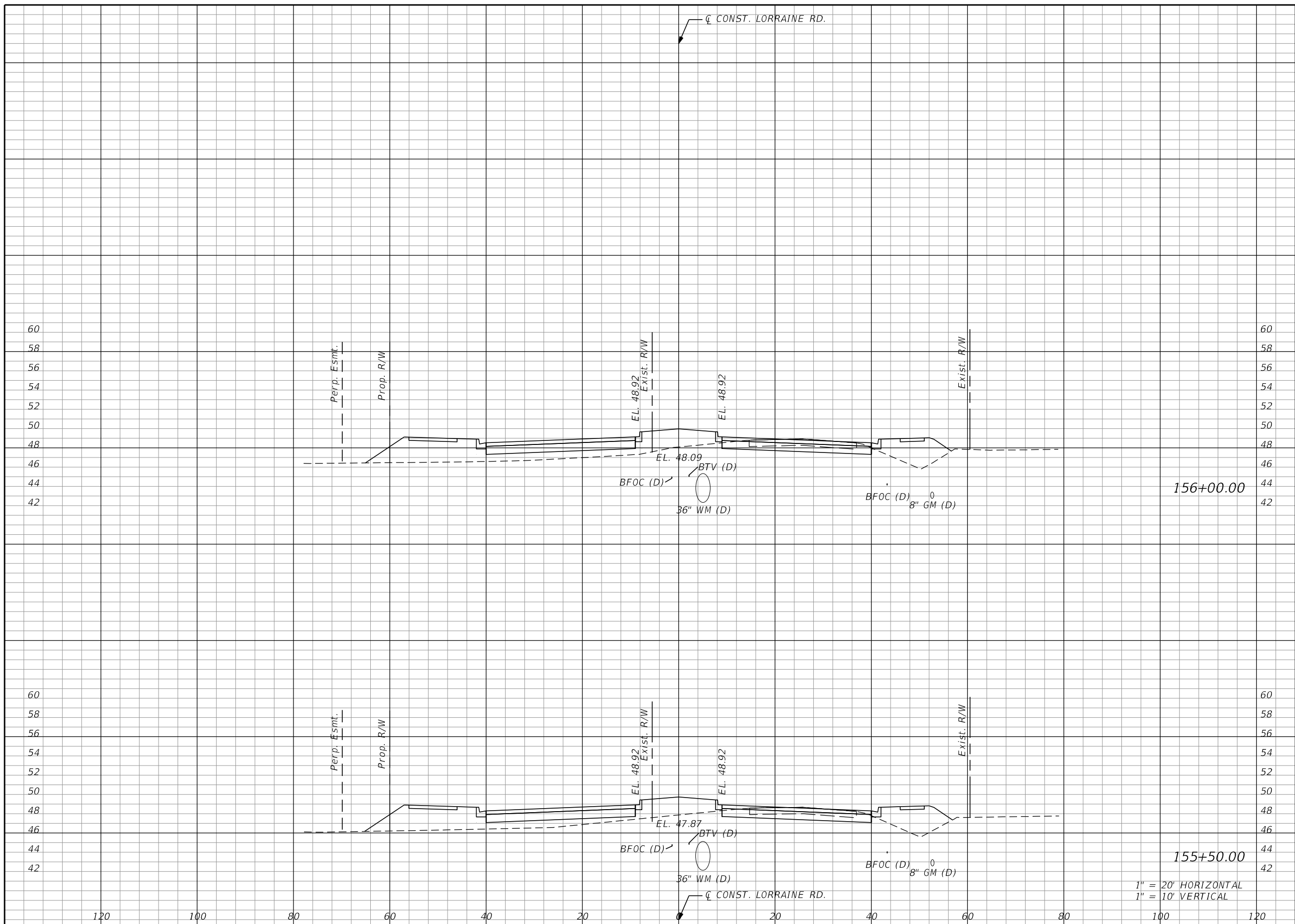
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
BRIAN L. ZIMMERMAN
FL. LICENSE NO. 78557

CROSS SECTIONS

SHEET NO. 121

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

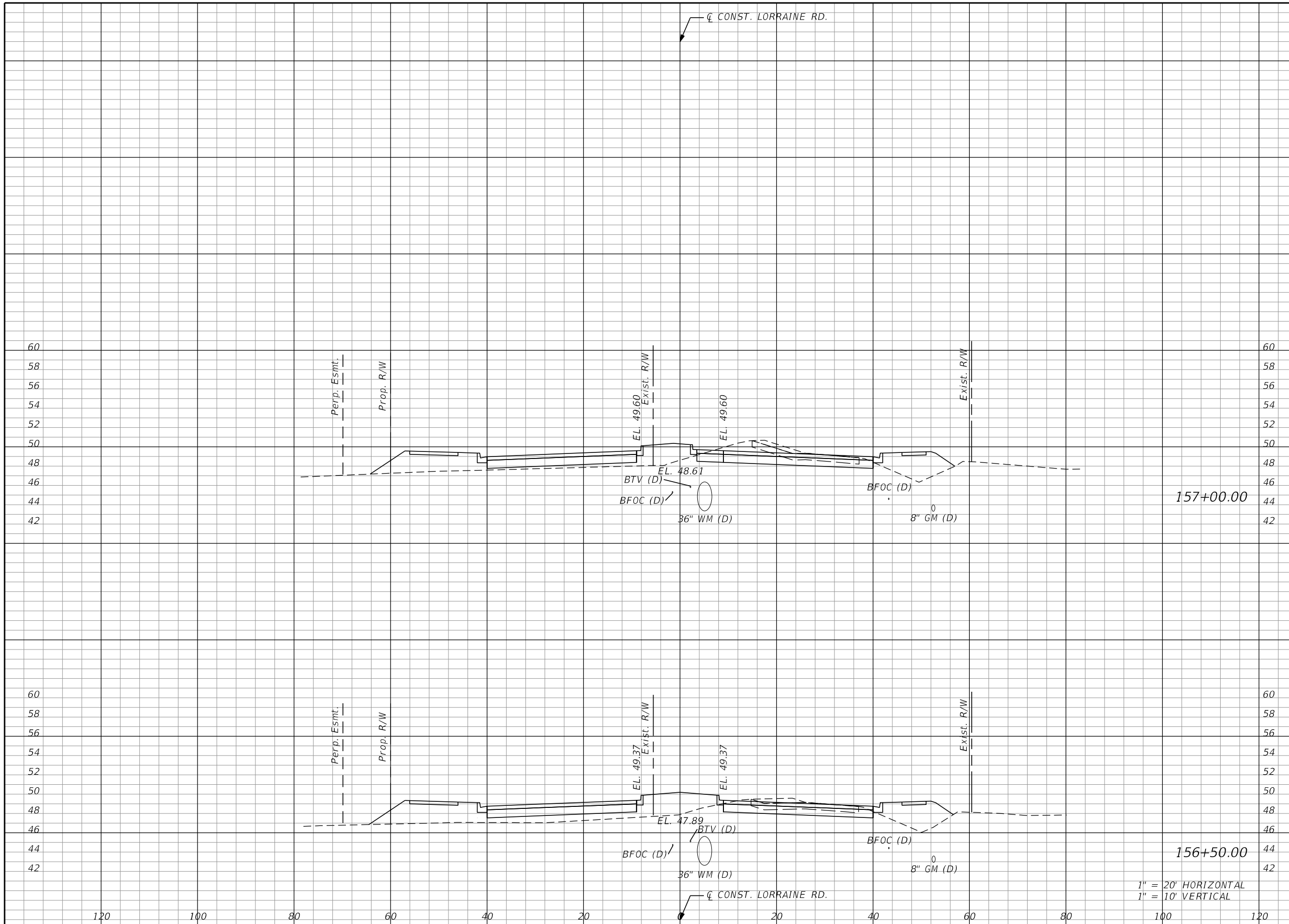


Regular		Exc.		Embankment	
A	V	A	V	A	V

1" = 20' HORIZONTAL
 1" = 10' VERTICAL

SCALE AS NOTED		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	CROSS SECTIONS	SHEET NO.
DESIGNED BY			11/2022		BRIAN L. ZIMMERMAN		123
DRAWN BY			PROJECT NO.		FL. LICENSE NO.		
CHECKED BY			6107660		78557		
No.	REVISIONS	DATE	BY	JLS			

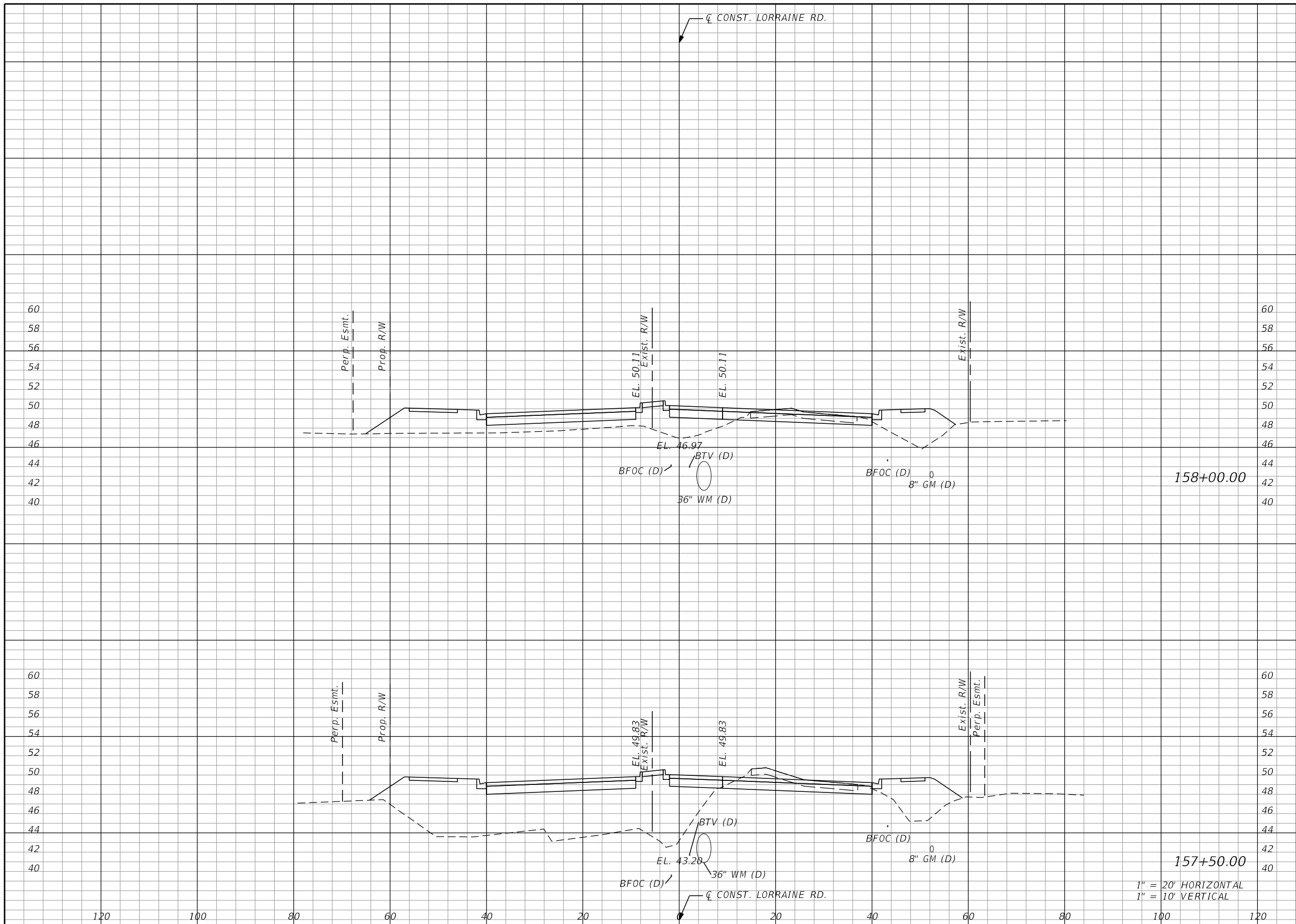
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

		SCALE AS NOTED	HDR	DATE 11/2022	Manatee County FLORIDA	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 124
		DESIGNED BY BLZ	HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	PROJECT NO. 6107660				
		DRAWN BY JMA						
		CHECKED BY JLS						
No.	REVISIONS	DATE	BY					

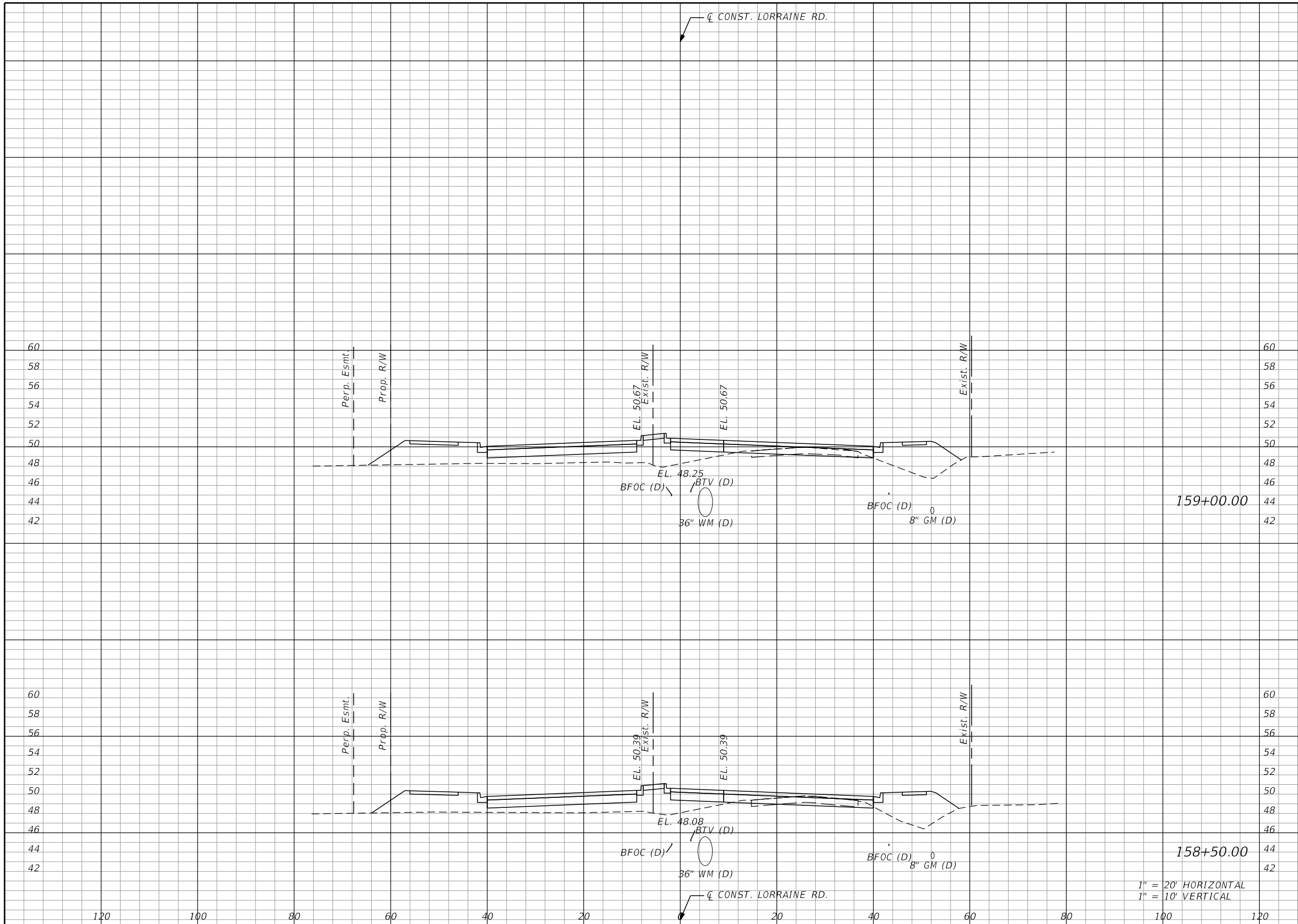
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6107660	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS SHEET NO. 125
No.	REVISIONS		DATE		BY	

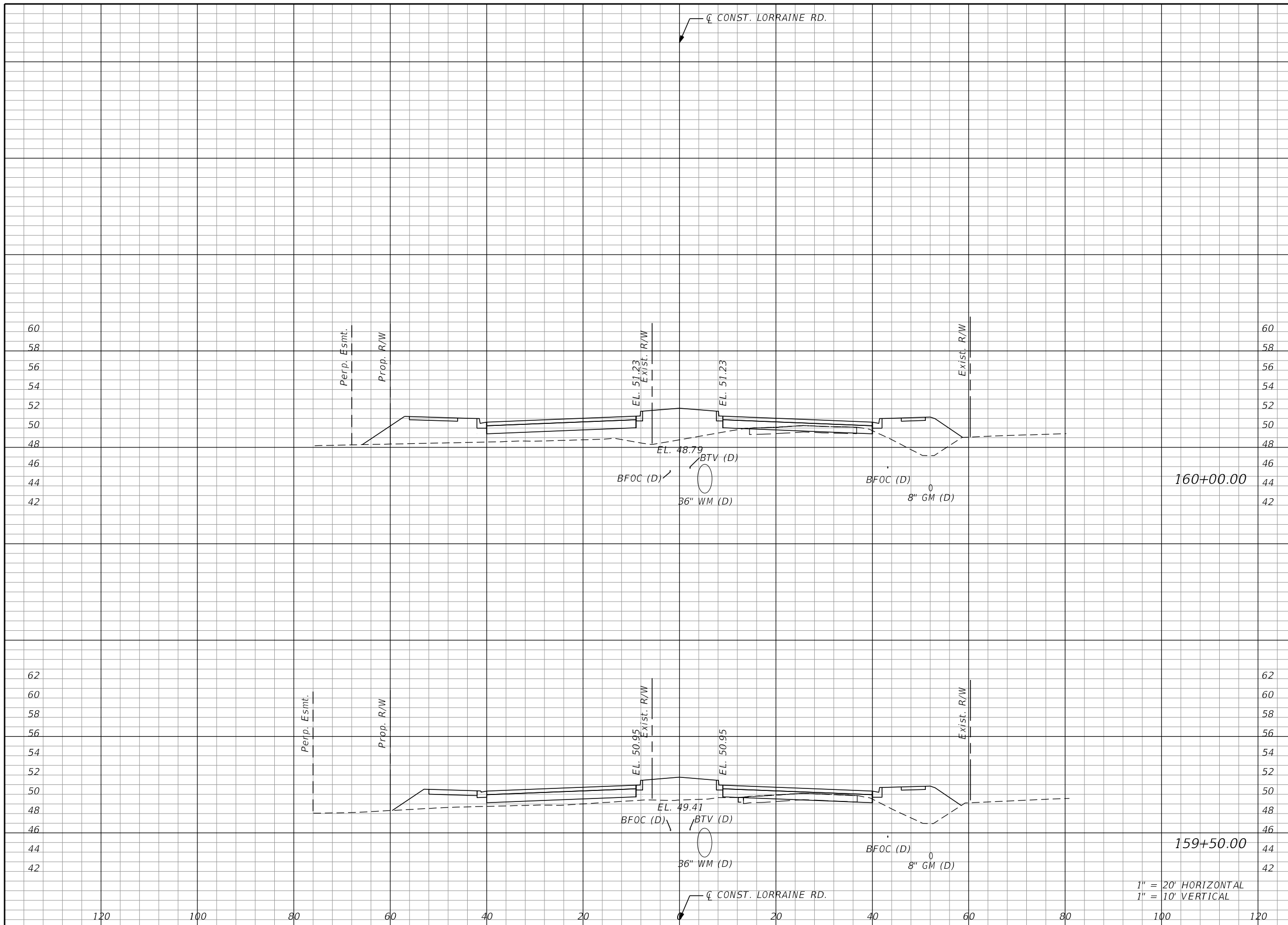
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		SHEET NO. 126
No. REVISIONS DATE BY						CROSS SECTIONS		

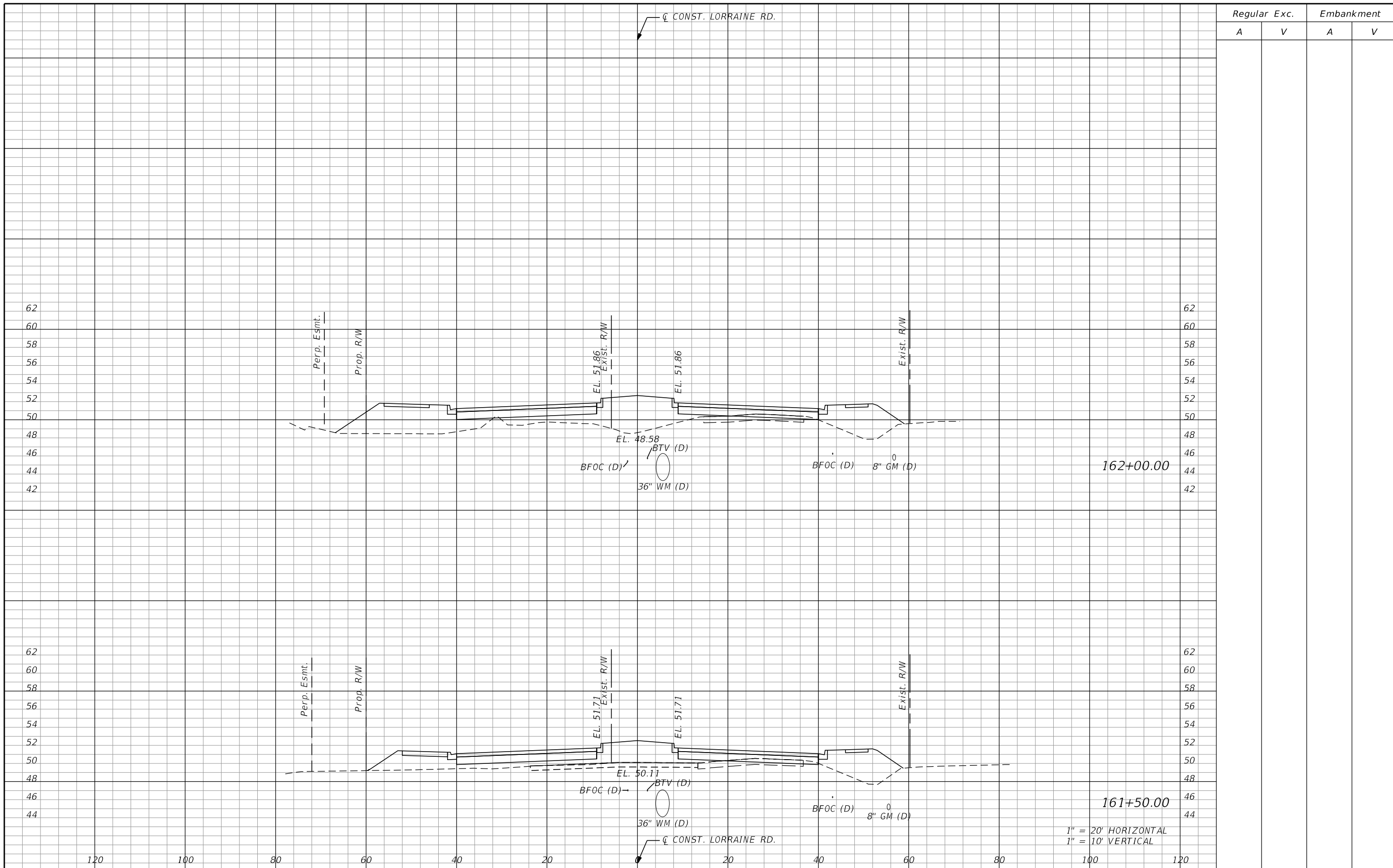
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

No.	REVISIONS	DATE	BY	SCALE AS NOTED	HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN	CROSS SECTIONS	SHEET NO. 127
				DRAWN BY JMA		PROJECT NO. 6107660		FL. LICENSE NO. 78557		
				CHECKED BY JLS						

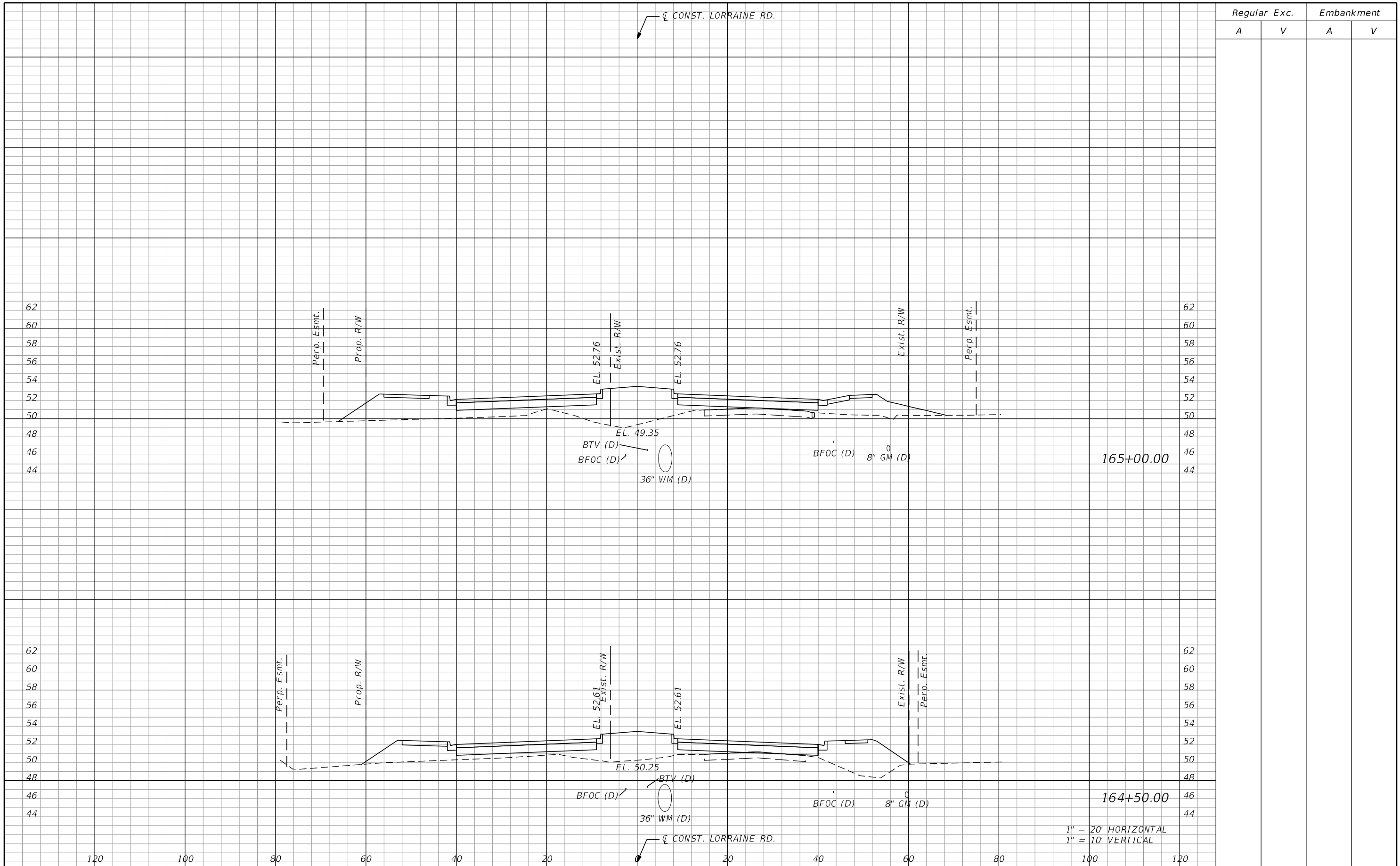
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 129
No. REVISIONS DATE BY			PROJECT NO. 6107660		1" = 20' HORIZONTAL 1" = 10' VERTICAL		

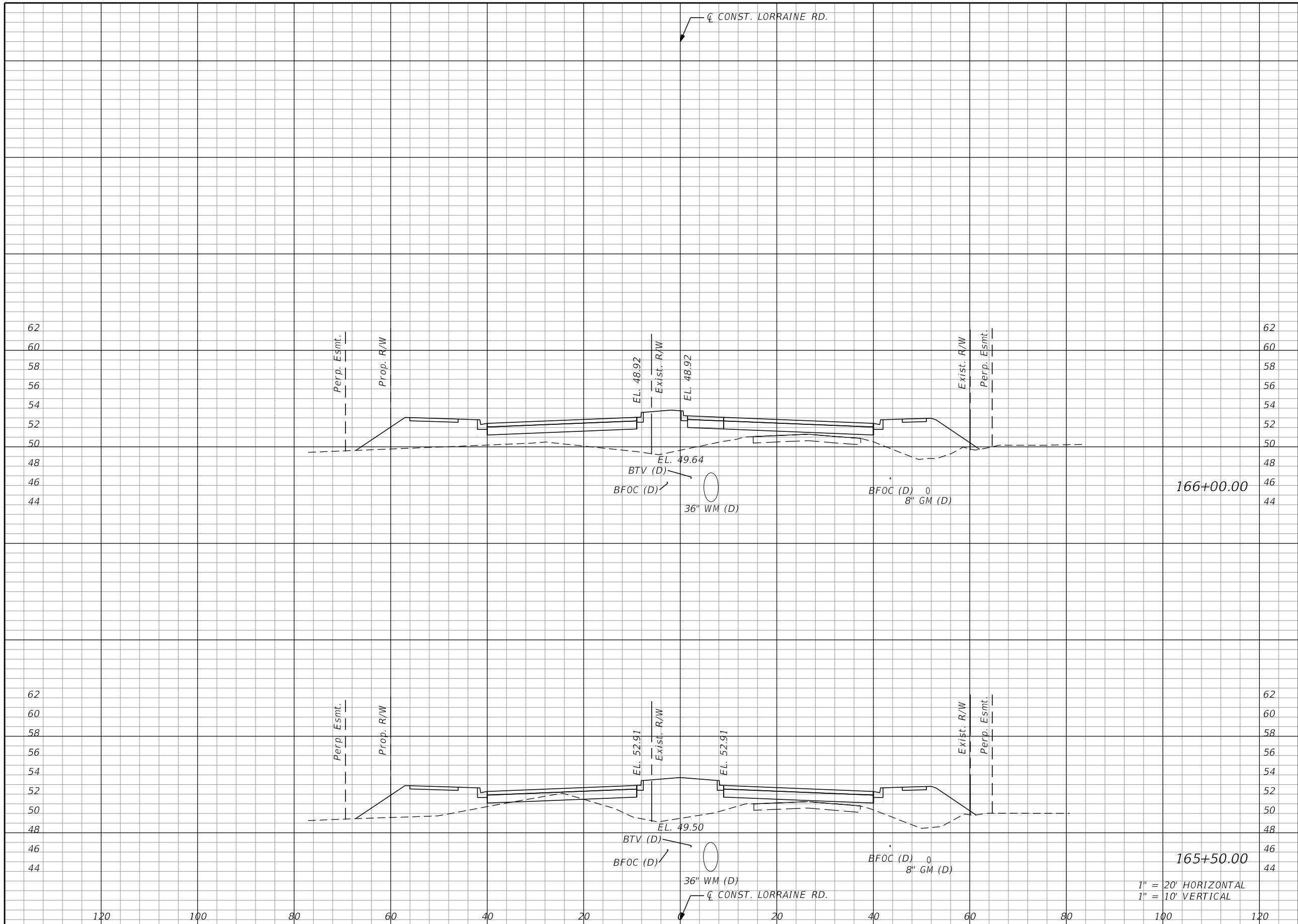
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS				HDR HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022 PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		CROSS SECTIONS		SHEET NO. 132	
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE 11/2022
 PROJECT NO. 6107660



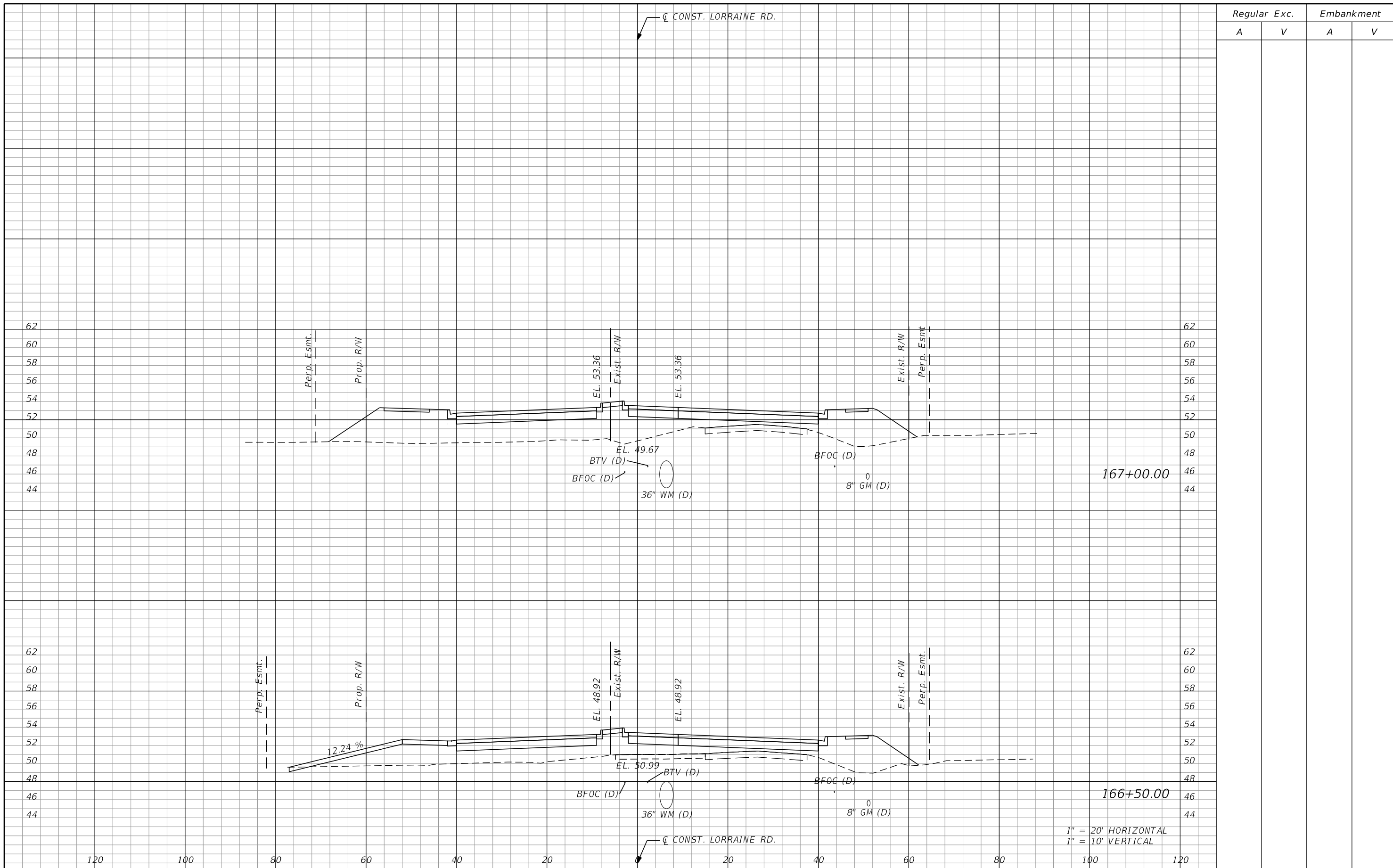
MANATEE COUNTY
 PUBLIC WORKS

DESIGN ENGINEER
 BRIAN L. ZIMMERMAN
 FL. LICENSE NO. 78557

CROSS SECTIONS

SHEET NO.
 133

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

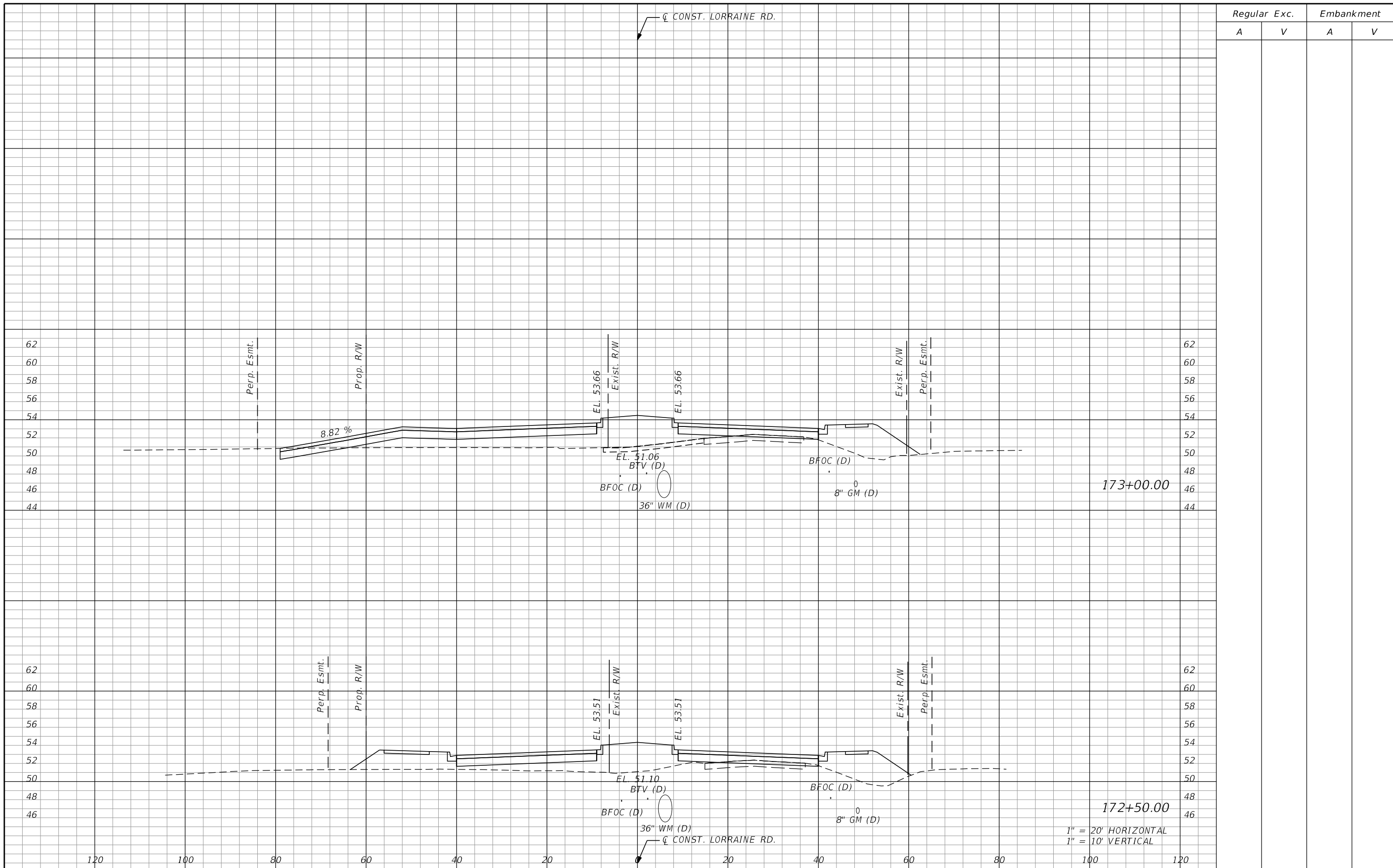
167+00.00

166+50.00

1" = 20' HORIZONTAL
1" = 10' VERTICAL

SCALE AS NOTED		<p>HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609</p>	DATE 11/2022		<p>MANATEE COUNTY PUBLIC WORKS</p>	DESIGN ENGINEER BRIAN L. ZIMMERMAN		<p>CROSS SECTIONS</p>	SHEET NO. 134		
DESIGNED BY BLZ			PROJECT NO. 6107660			FL. LICENSE NO. 78557					
DRAWN BY JMA											
CHECKED BY JLS											
No.	REVISIONS	DATE	BY								

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	A	V

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS
HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE 11/2022
 PROJECT NO. 6107660

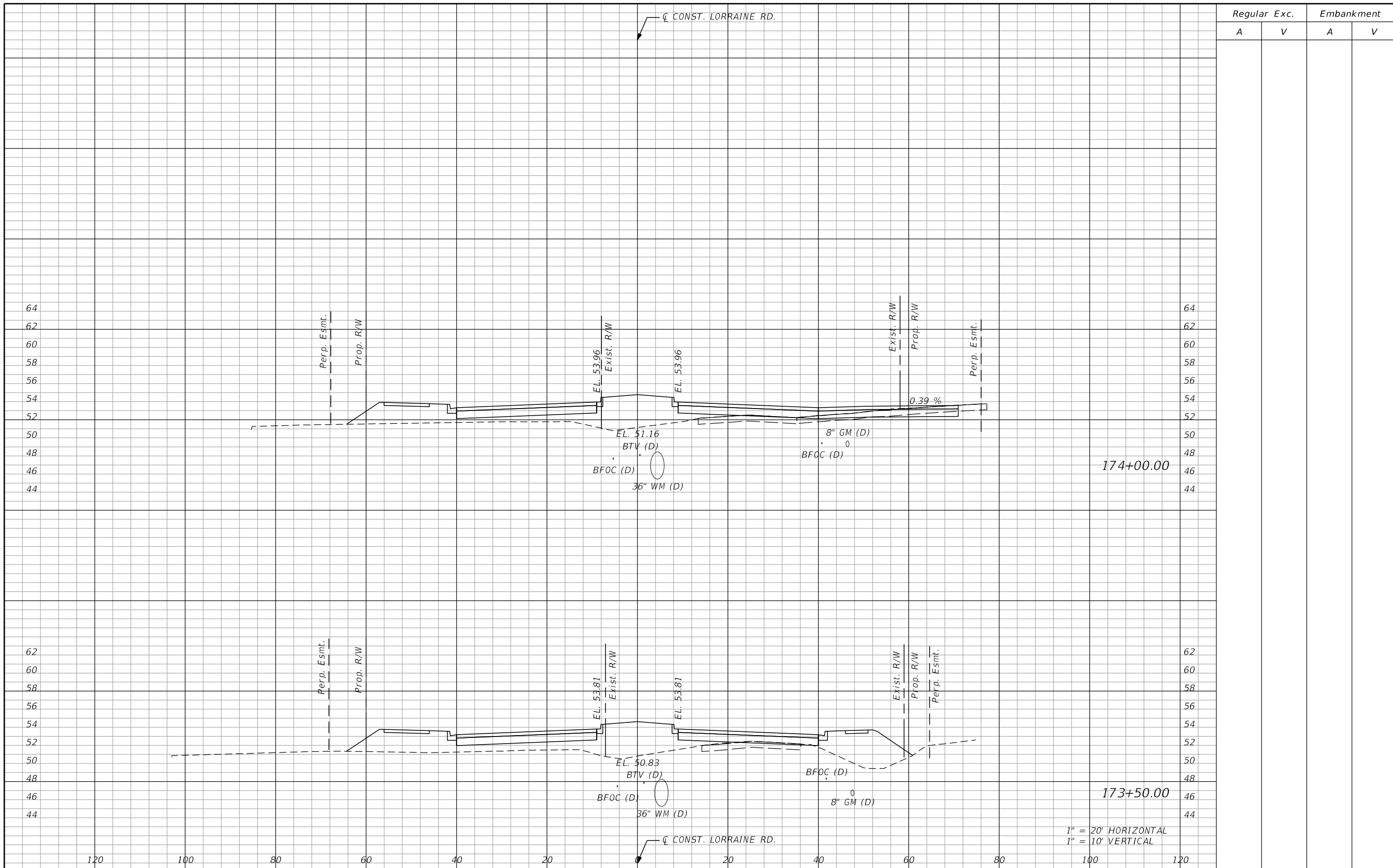
MANATEE COUNTY PUBLIC WORKS

DESIGN ENGINEER BRIAN L. ZIMMERMAN
 FL. LICENSE NO. 78557

CROSS SECTIONS

SHEET NO. 140

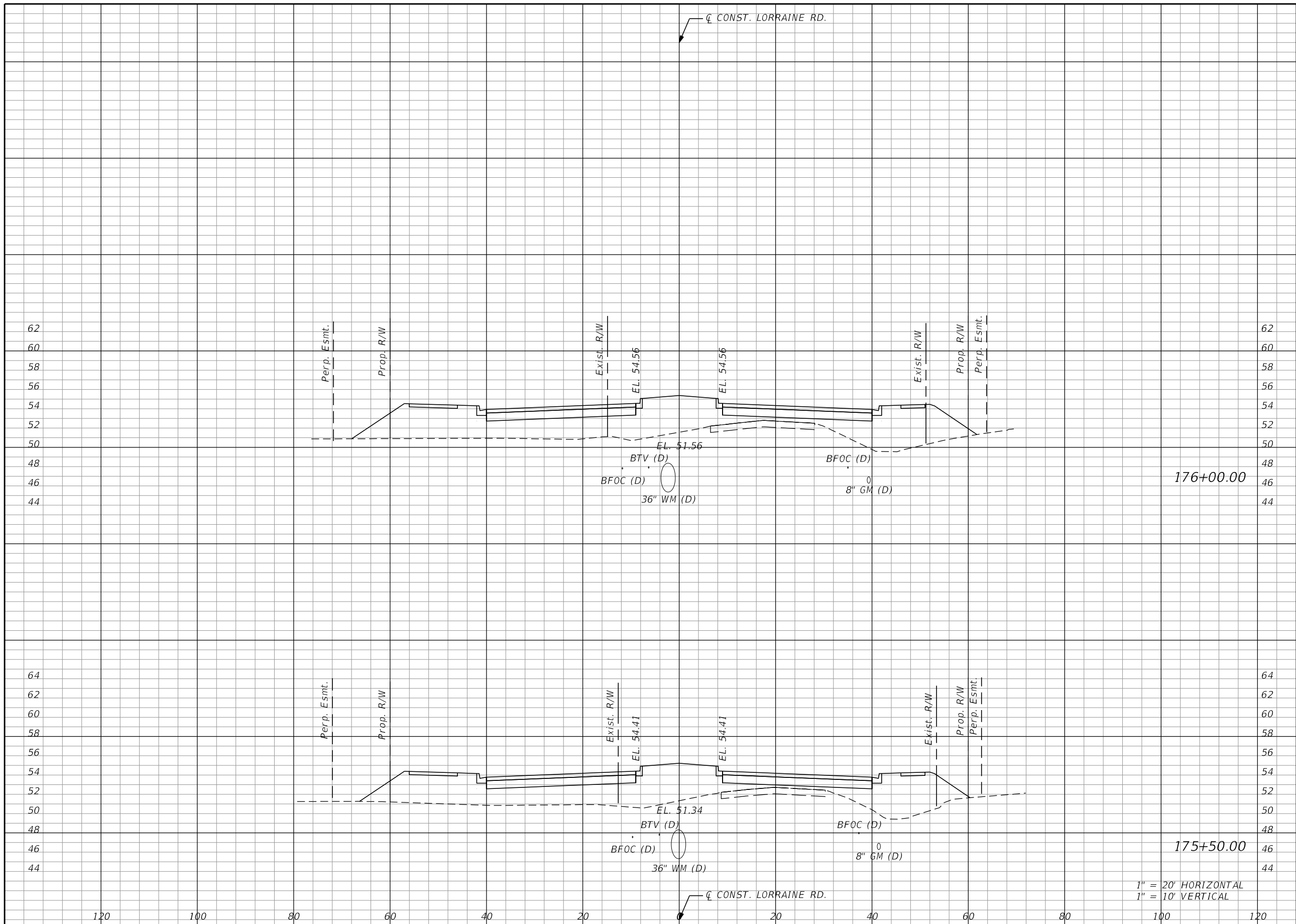
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS SHEET NO. 141
PROJECT NO. 6107660			1" = 20' HORIZONTAL 1" = 10' VERTICAL			

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	A	V

No.	REVISIONS	DATE	BY

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

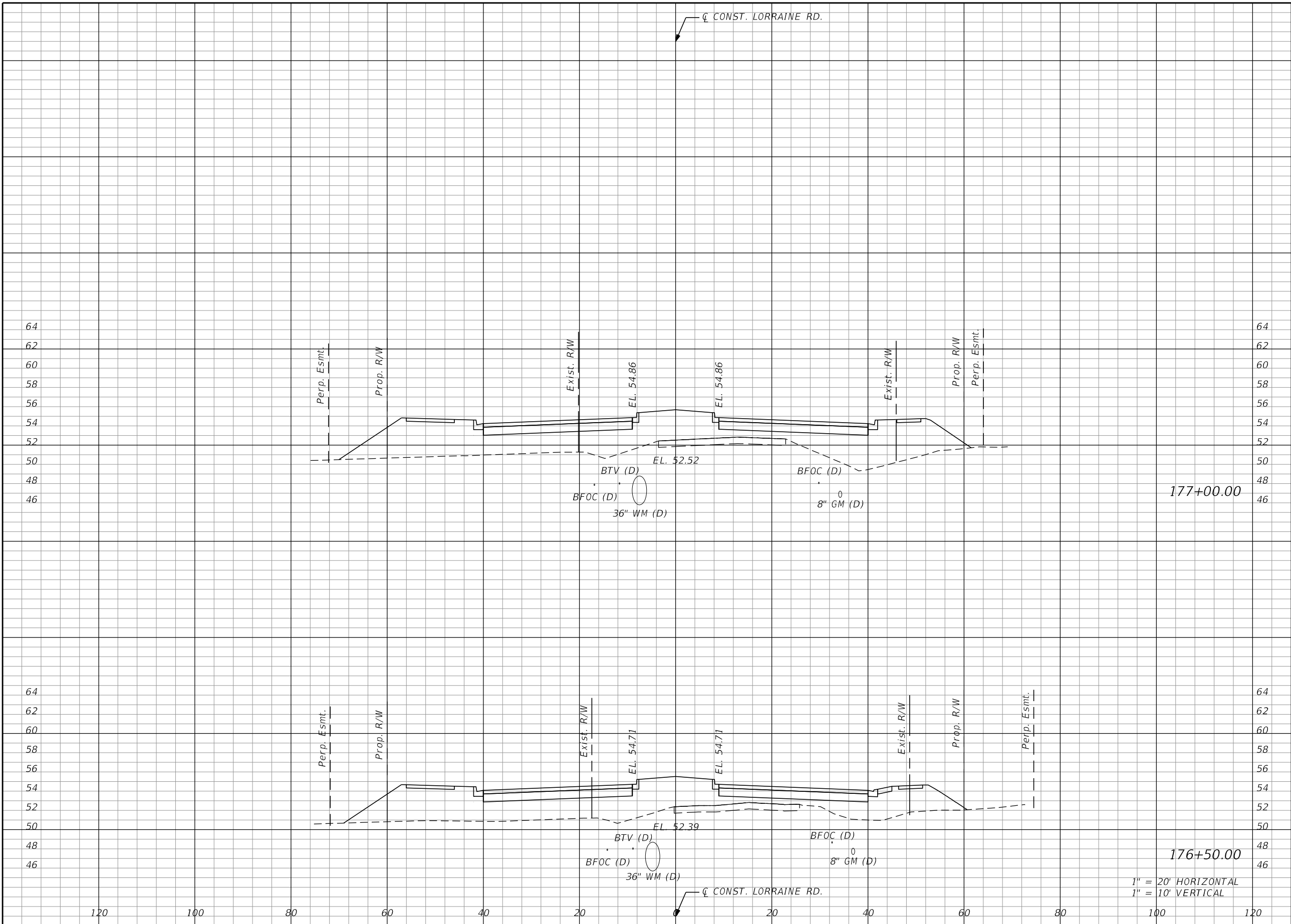
DATE 11/2022
 PROJECT NO. 6107660
MANATEE COUNTY PUBLIC WORKS

DESIGN ENGINEER BRIAN L. ZIMMERMAN
 FL. LICENSE NO. 78557

CROSS SECTIONS

SHEET NO. 143

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	A	V

1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

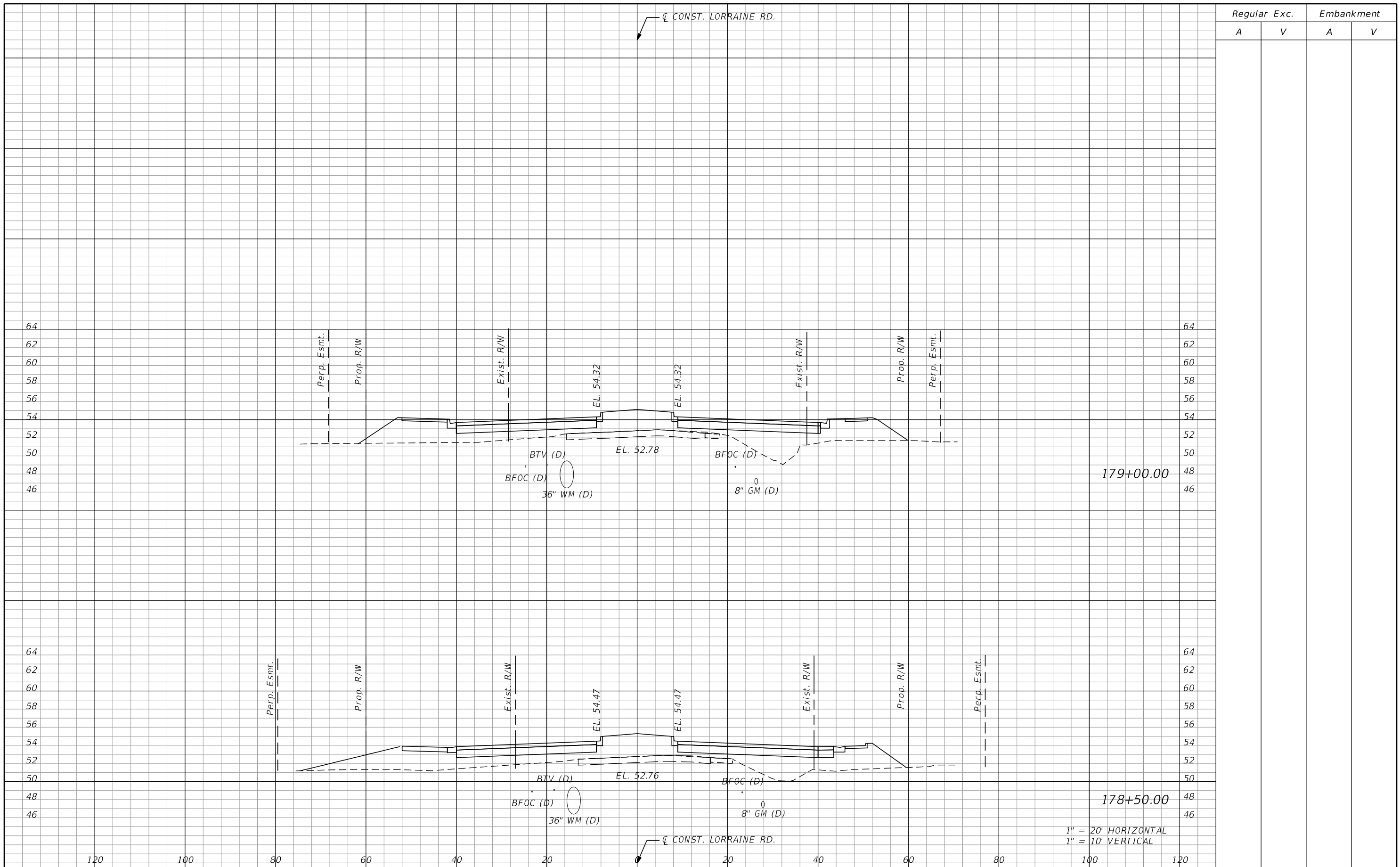
DATE 11/2022
 PROJECT NO. 6107660

MANATEE COUNTY PUBLIC WORKS

DESIGN ENGINEER BRIAN L. ZIMMERMAN
 FL. LICENSE NO. 78557

CROSS SECTIONS
 SHEET NO. **144**

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	A	V

179+00.00

178+50.00

1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE 11/2022
 PROJECT NO. 6107660



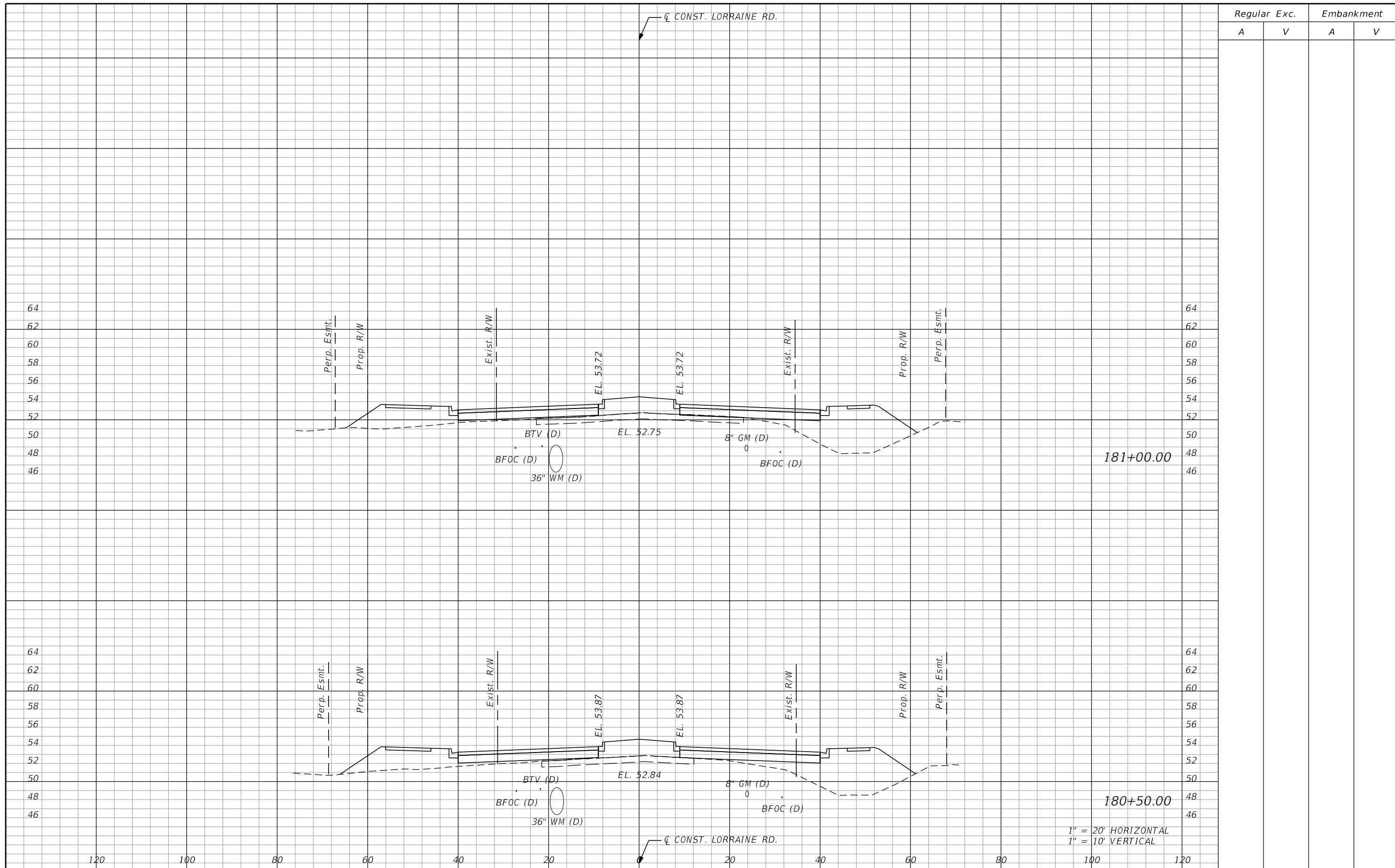
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
BRIAN L. ZIMMERMAN
FL. LICENSE NO. 78557

CROSS SECTIONS

SHEET NO. 146

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



181+00.00

180+50.00

1" = 20' HORIZONTAL
1" = 10' VERTICAL

Regular		Exc.		Embankment	
A	V	A	V	A	V

No.	REVISIONS	DATE	BY

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

SCALE: AS NOTED
 DESIGNED BY: BLZ
 DRAWN BY: JMA
 CHECKED BY: JLS

DATE: 11/2022
 PROJECT NO.: 6107660



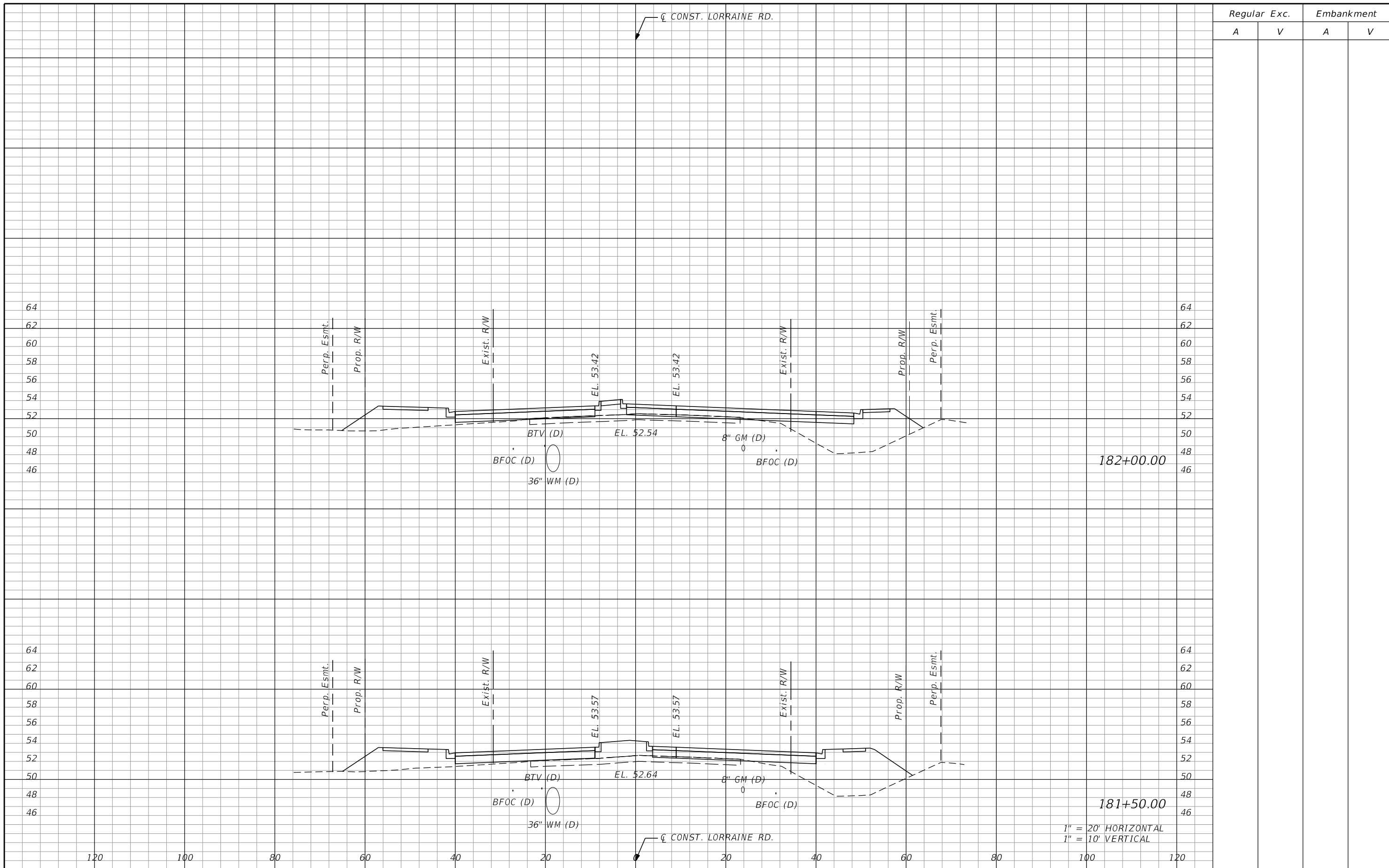
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER:
 BRIAN L. ZIMMERMAN
 FL. LICENSE NO. 78557

CROSS SECTIONS

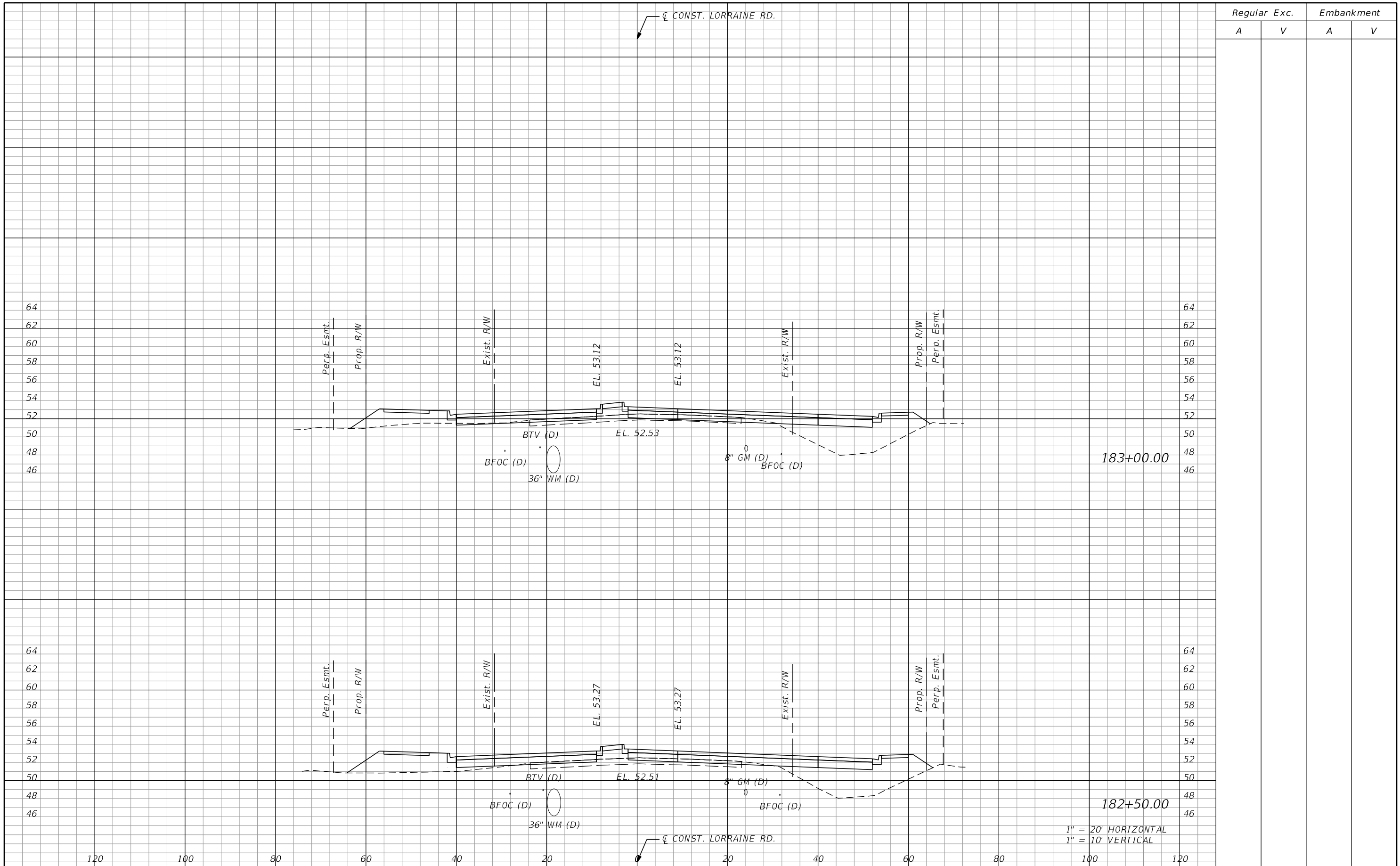
SHEET NO.
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Regular		Exc.		Embankment	
A	V	A	V	A	V

No.	REVISIONS	DATE	BY	SCALE	AS NOTED	DATE	11/2022	PROJECT NO.	6107660	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 149
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No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE 11/2022
 PROJECT NO. 6107660

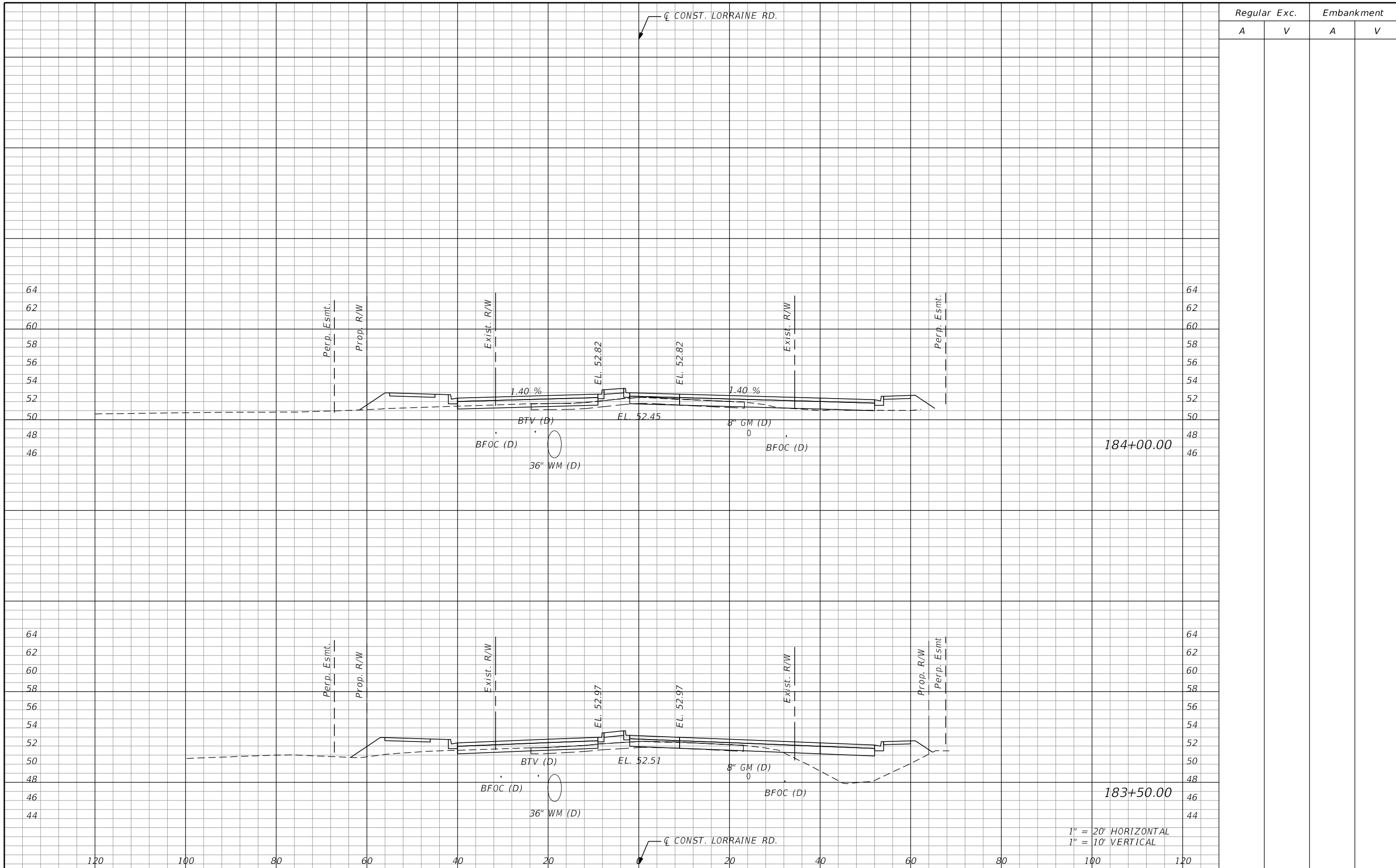
Manatee County
 MANATEE COUNTY
 PUBLIC WORKS

DESIGN ENGINEER
 BRIAN L. ZIMMERMAN
 FL. LICENSE NO. 78557

CROSS SECTIONS

SHEET NO.
150

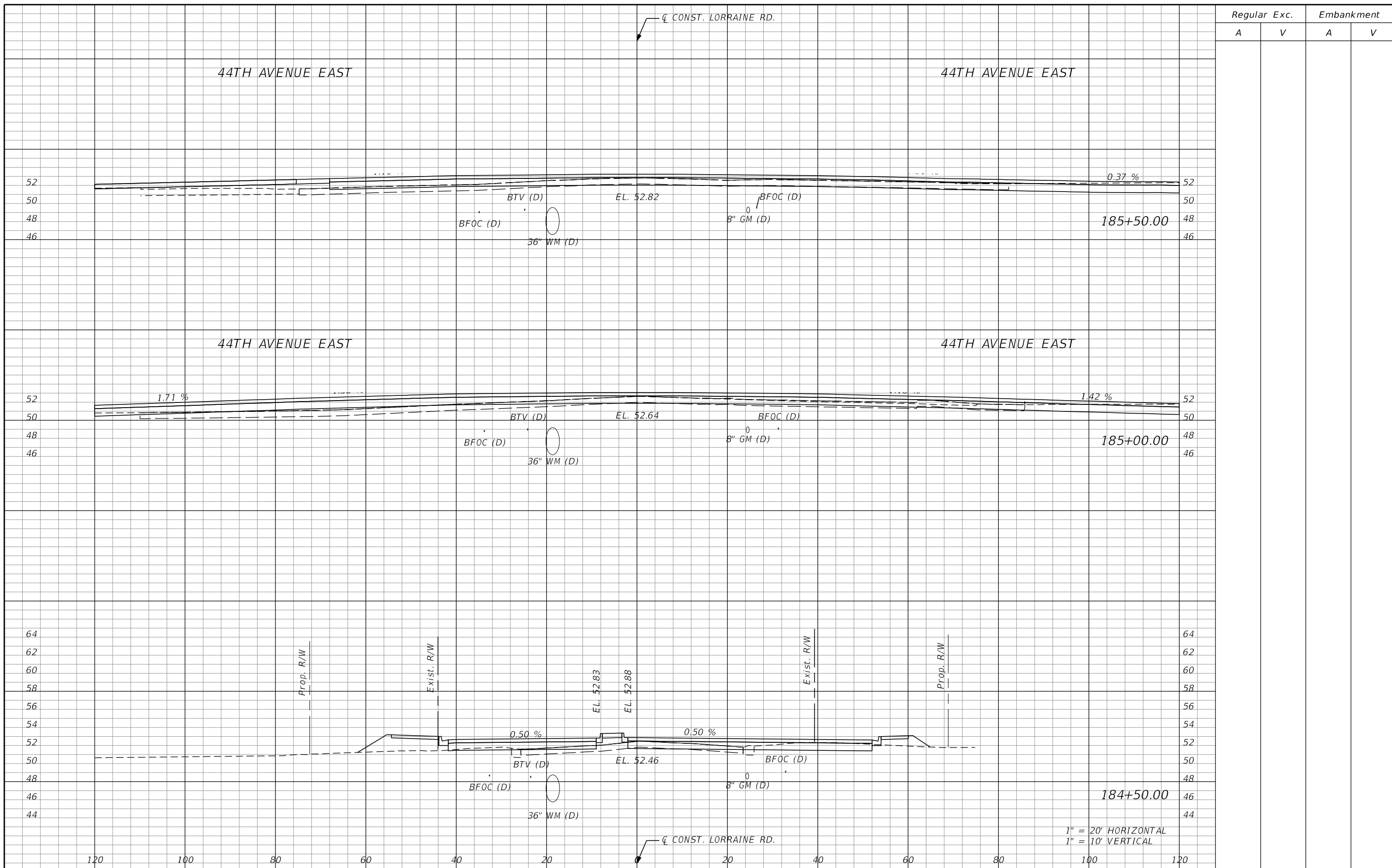
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Regular		Exc.		Embankment	
A	V	A	V	A	V

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

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS	<p>HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609</p>	DATE 11/2022 PROJECT NO. 6107660	<p>MANATEE COUNTY PUBLIC WORKS</p>	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	<p>CROSS SECTIONS</p>	SHEET NO. <p>151</p>							
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No.	REVISIONS	DATE	BY										



Regular		Exc.		Embankment	
A	V	A	V	A	V

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

DATE	11/2022
PROJECT NO.	6107660

MANATEE COUNTY
 PUBLIC WORKS

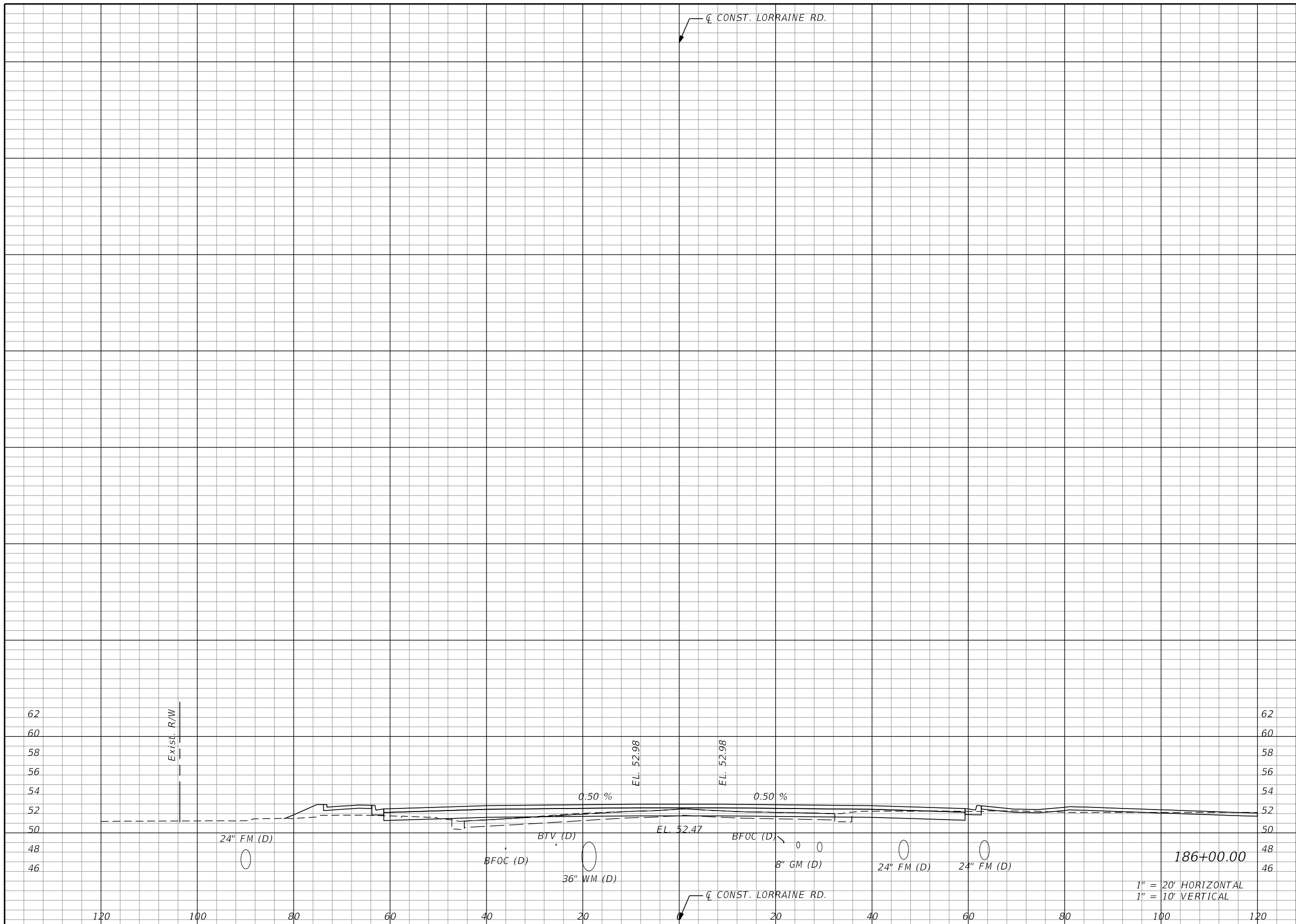
DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557

1" = 20' HORIZONTAL
 1" = 10' VERTICAL

CROSS SECTIONS

SHEET NO.	152
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

No.	REVISIONS	DATE	BY

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS
 DATE 11/2022
 PROJECT NO. 6107660

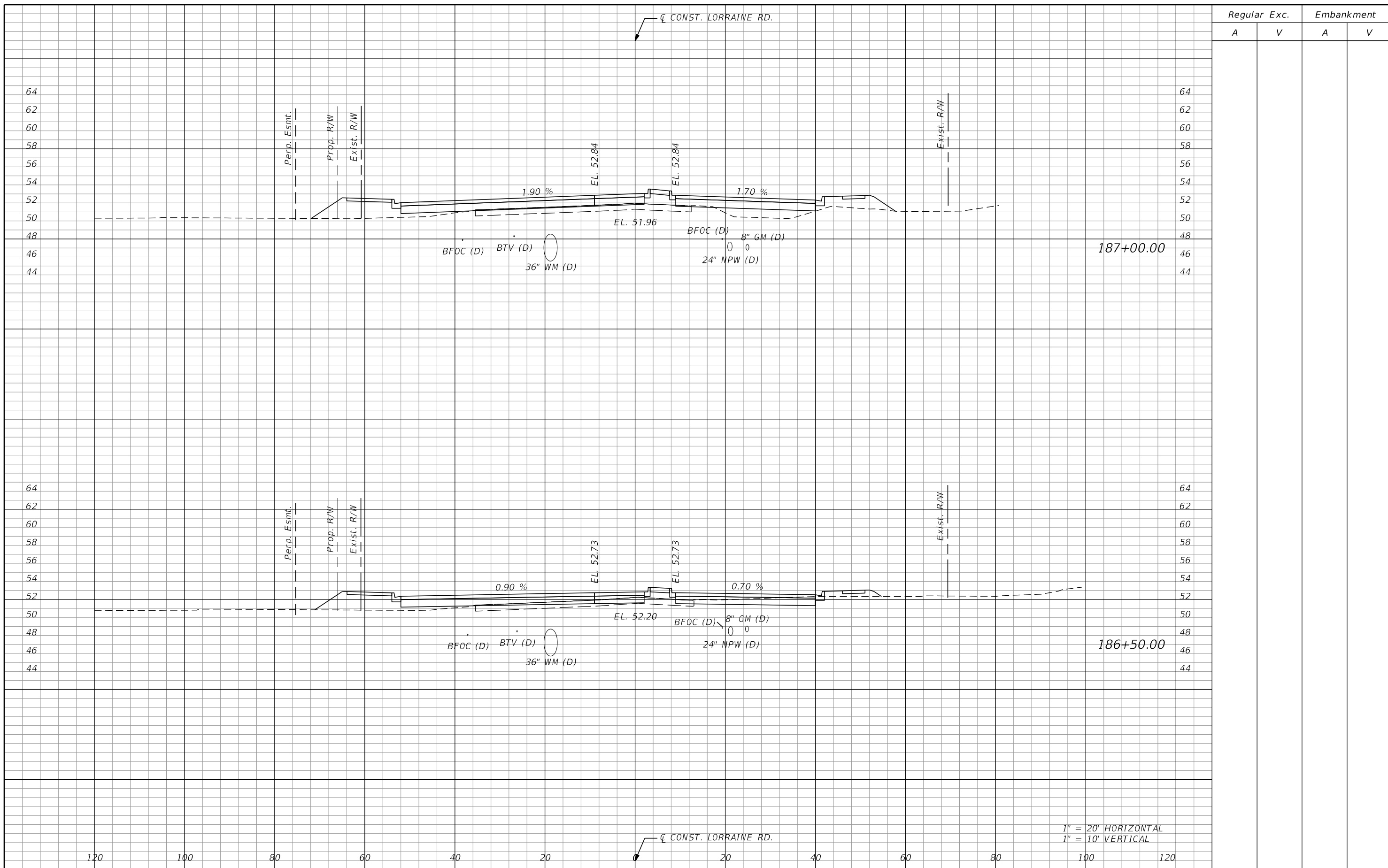
MANATEE COUNTY PUBLIC WORKS

DESIGN ENGINEER
 BRIAN L. ZIMMERMAN
 FL. LICENSE NO. 78557

CROSS SECTIONS

SHEET NO.
153

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	A	V

1" = 20' HORIZONTAL
1" = 10' VERTICAL

SCALE	AS NOTED		
DESIGNED BY	BLZ		
DRAWN BY	JMA		
CHECKED BY	JLS		
No.	REVISIONS	DATE	BY

HDR
HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6107660



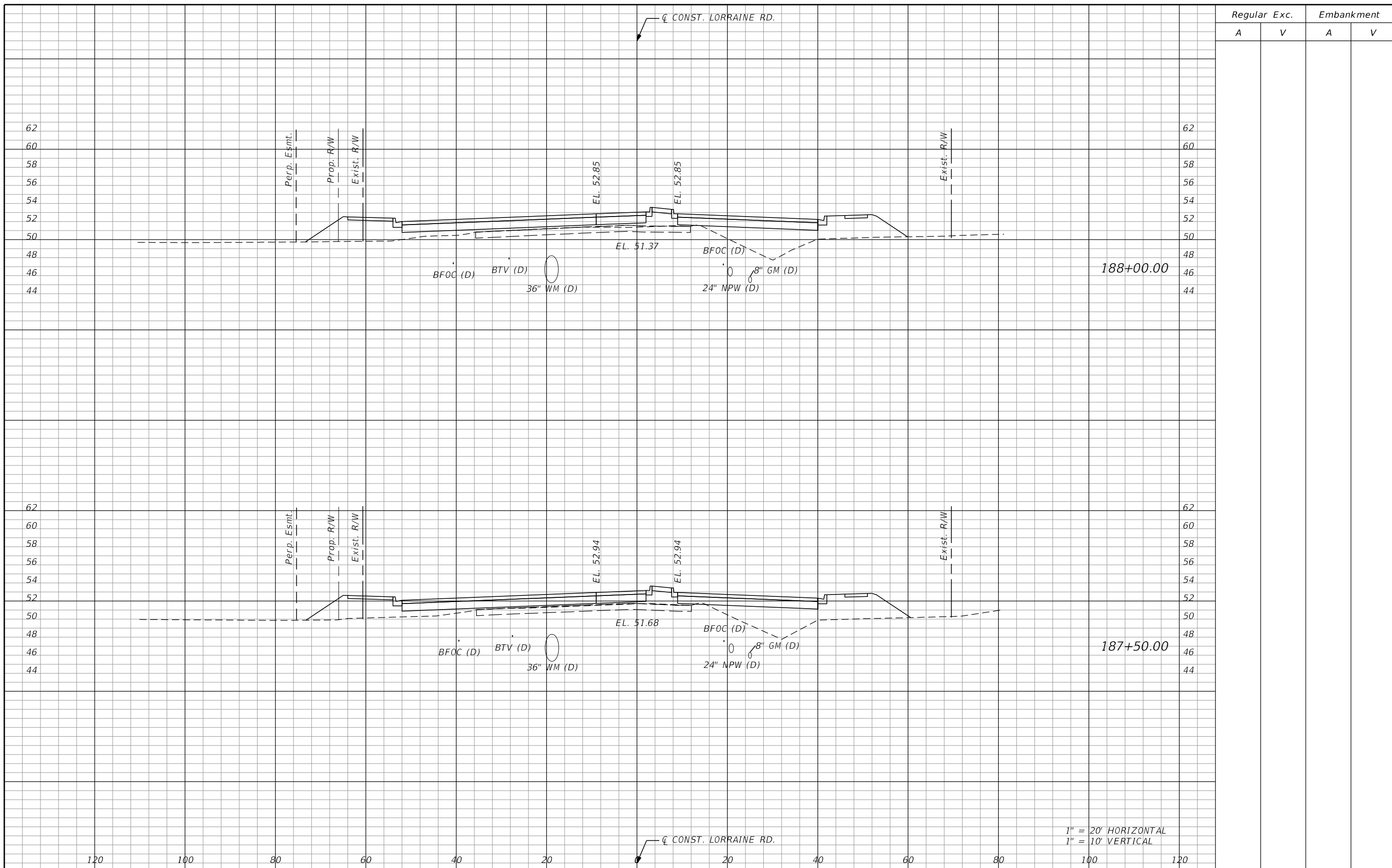
**MANATEE COUNTY
PUBLIC WORKS**

DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557

CROSS SECTIONS

SHEET NO.	154
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6107660



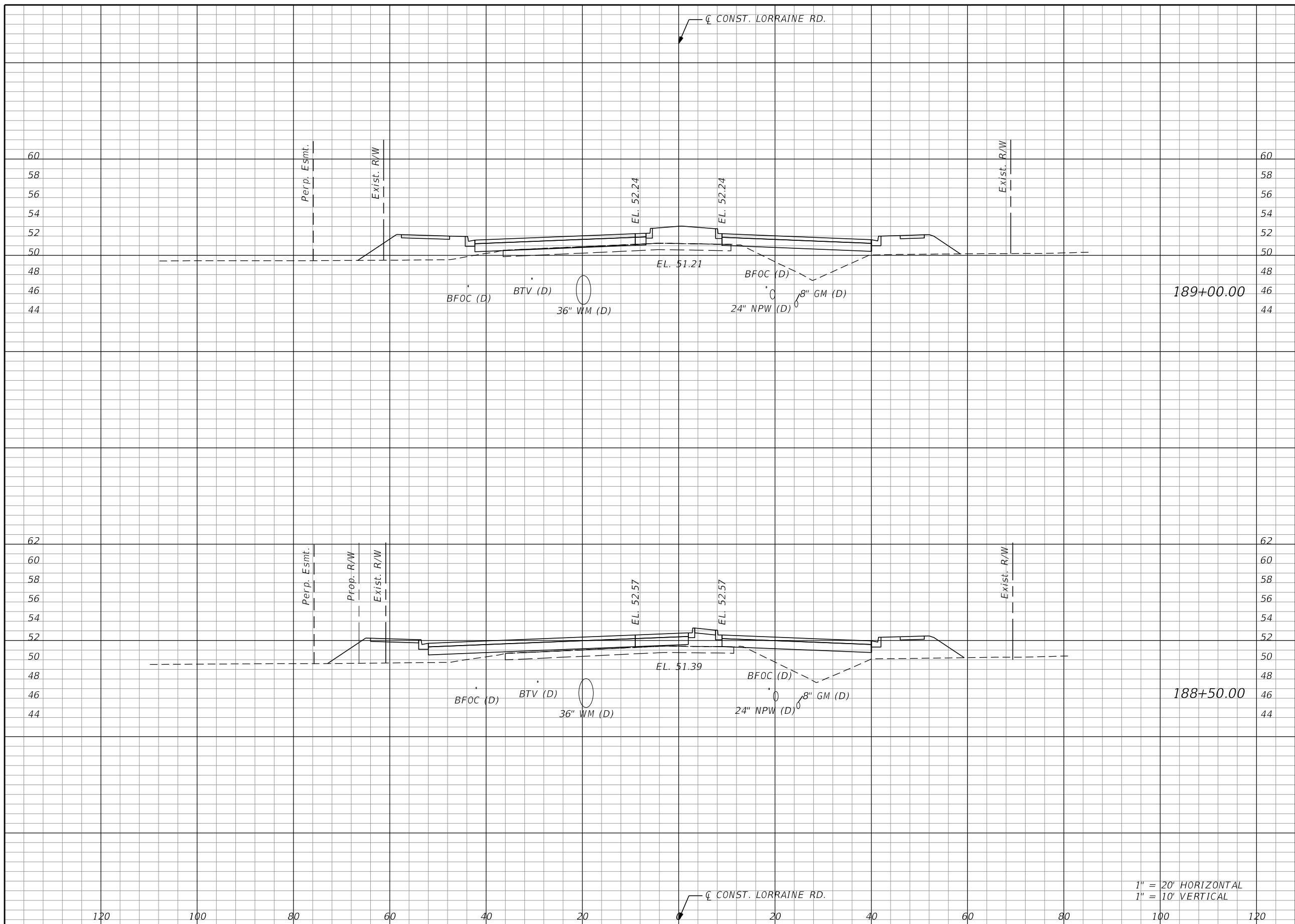
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557

CROSS SECTIONS

SHEET NO.	155
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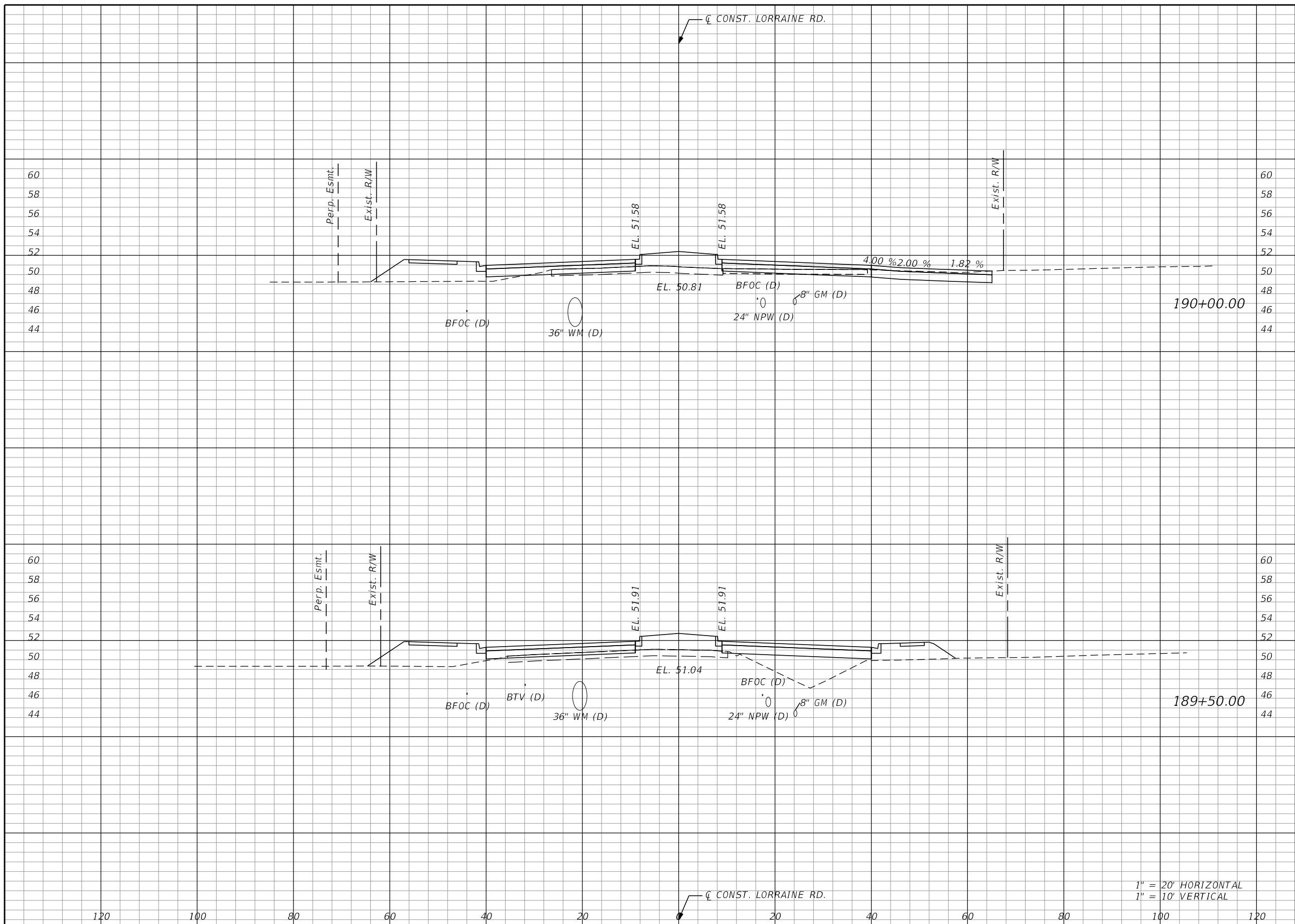
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	SHEET NO. 156
PROJECT NO. 6107660			CROSS SECTIONS			

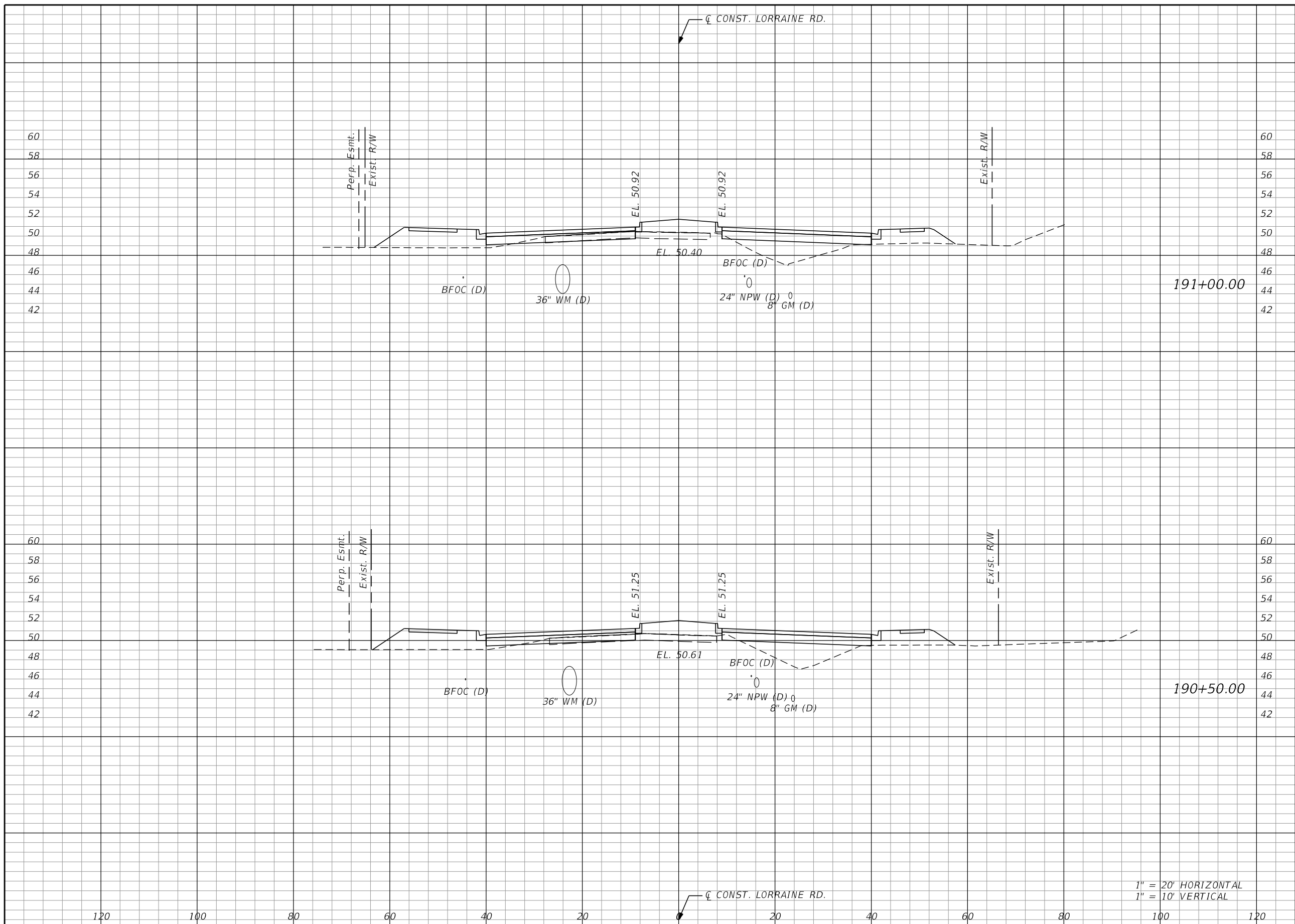
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6107660	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 157
No.	REVISIONS		DATE		BY		

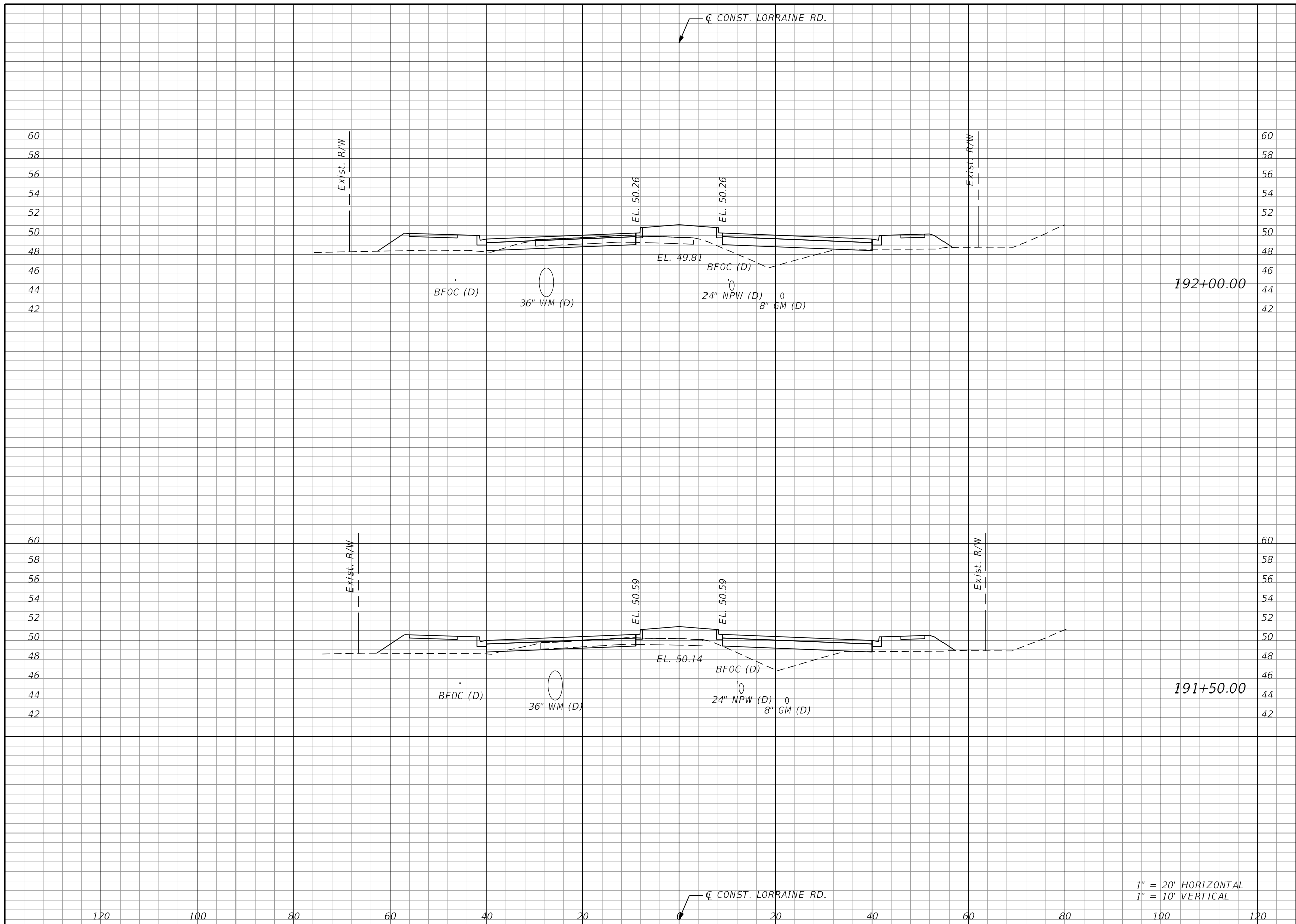
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 158
PROJECT NO. 6107660	No. REVISIONS DATE BY						

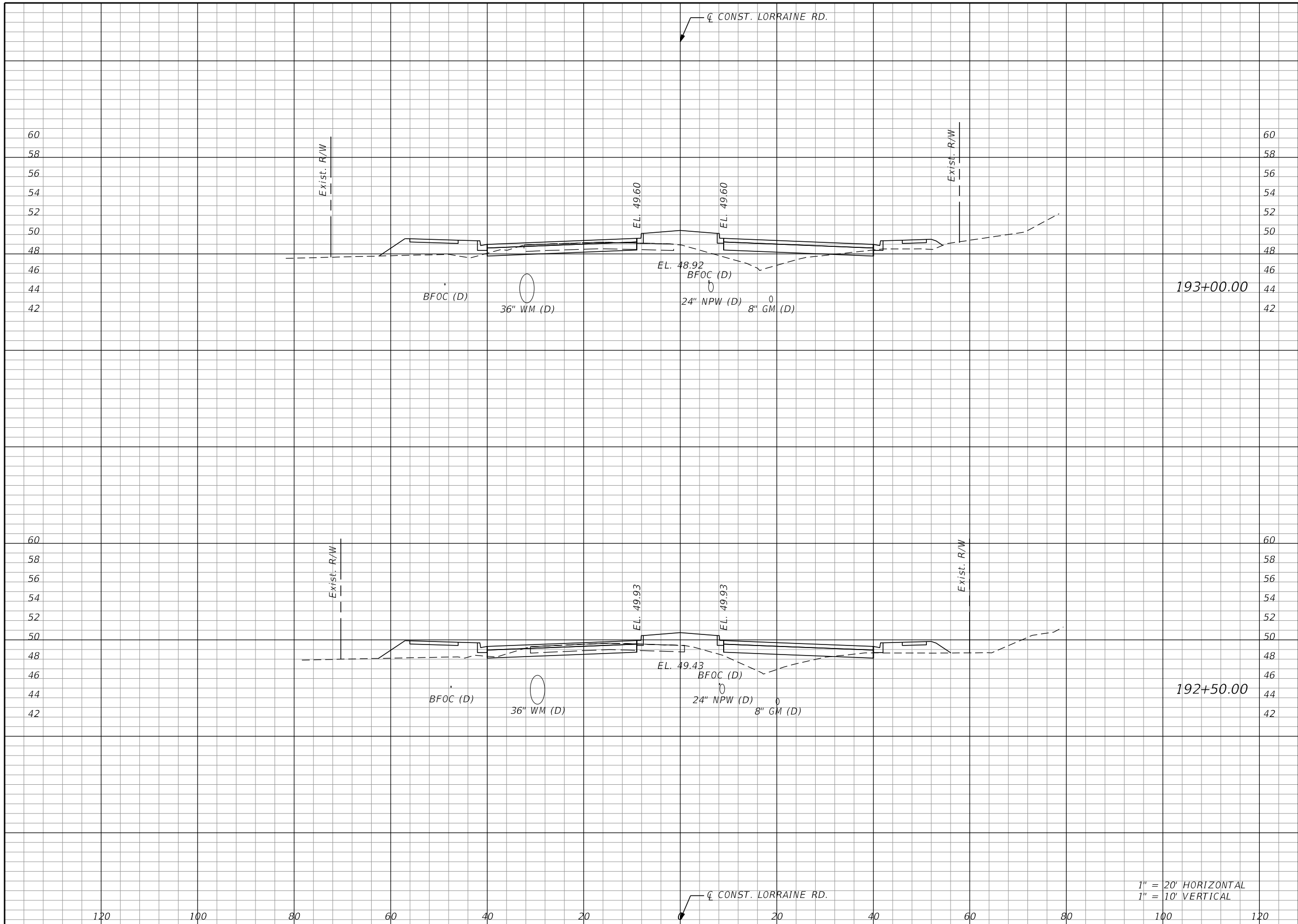
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 159
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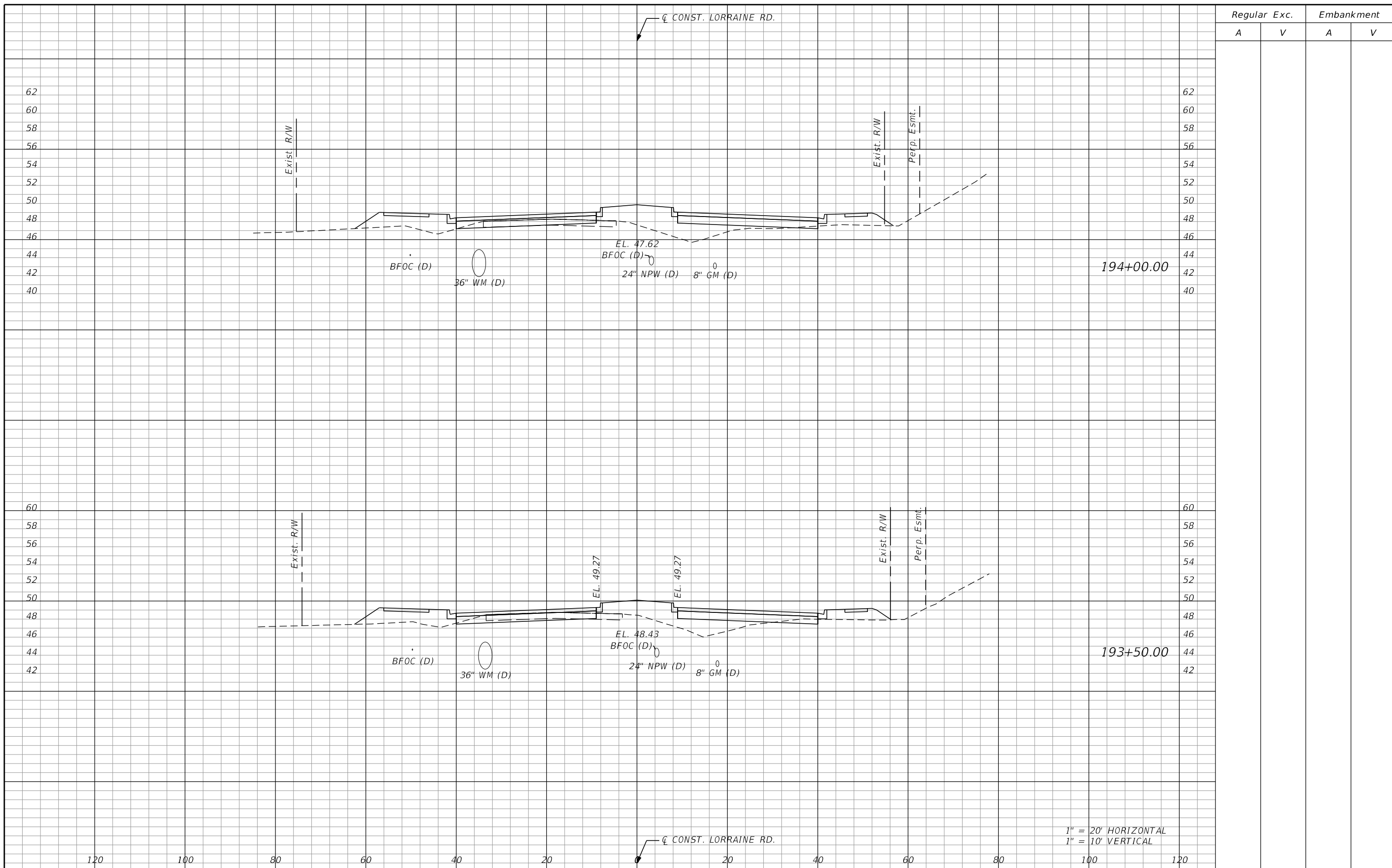
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 160
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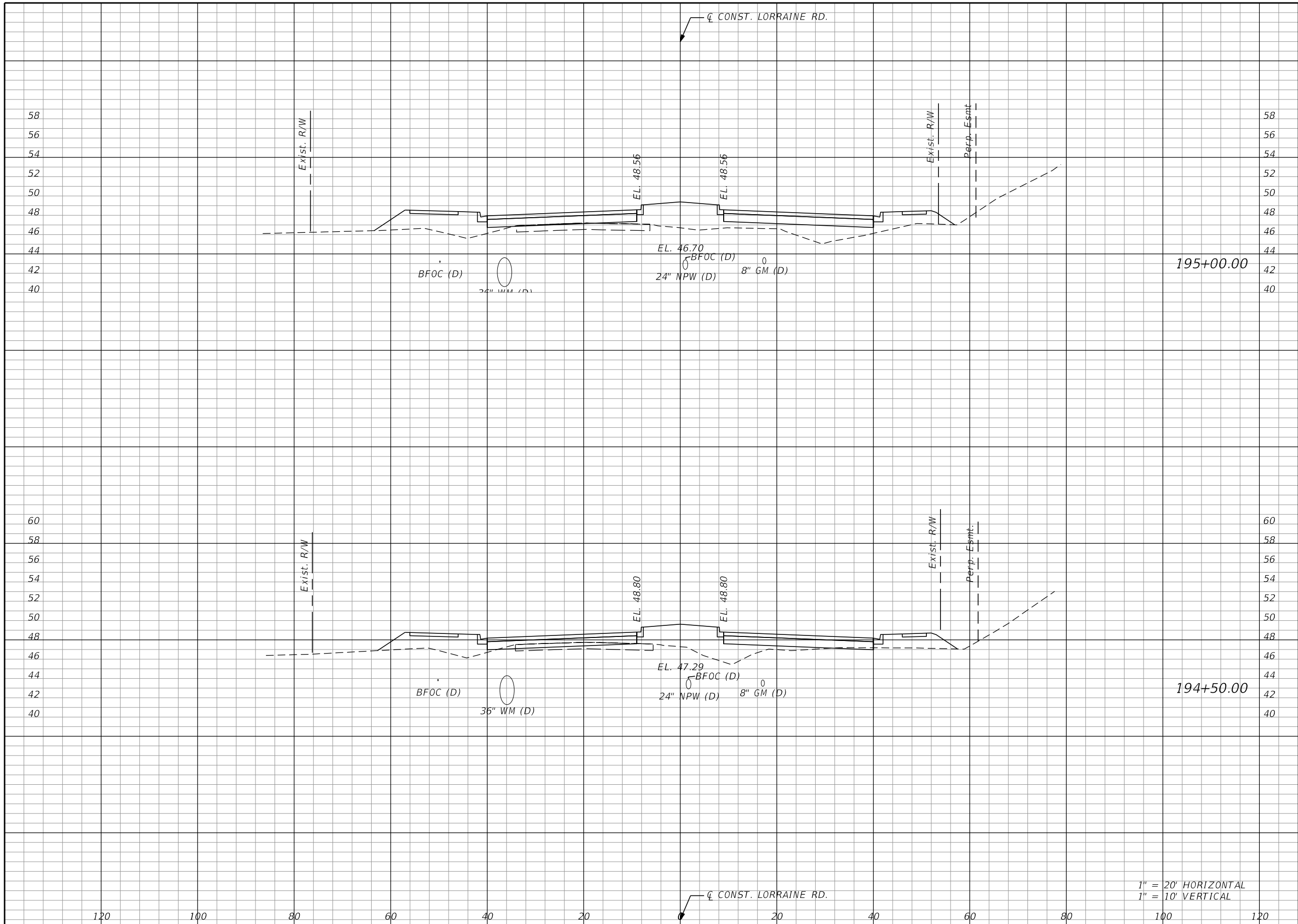
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 161
No. REVISIONS DATE BY			PROJECT NO. 6107660		1" = 20' HORIZONTAL 1" = 10' VERTICAL		

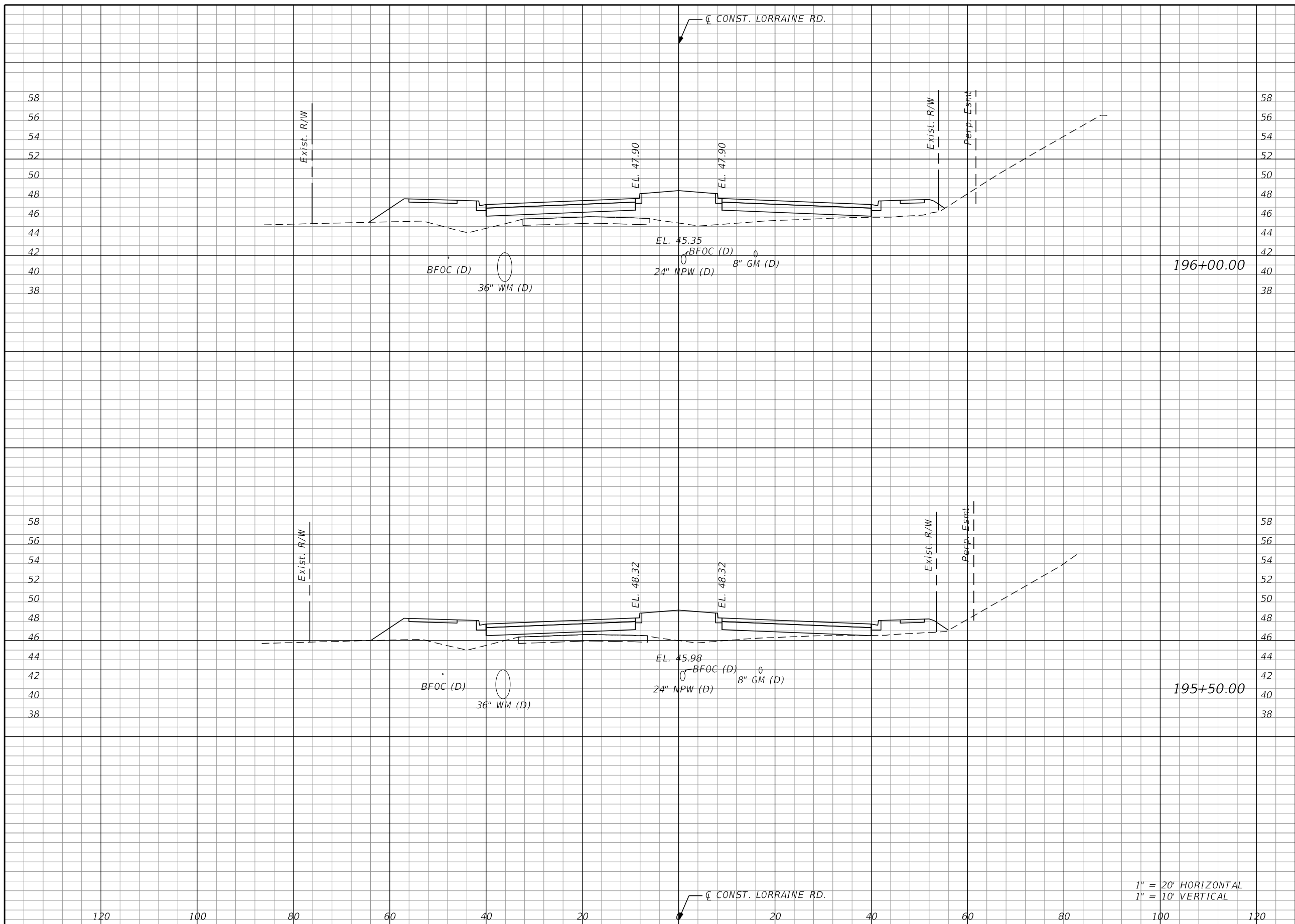
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	SHEET NO. 162
PROJECT NO. 6107660			CROSS SECTIONS			

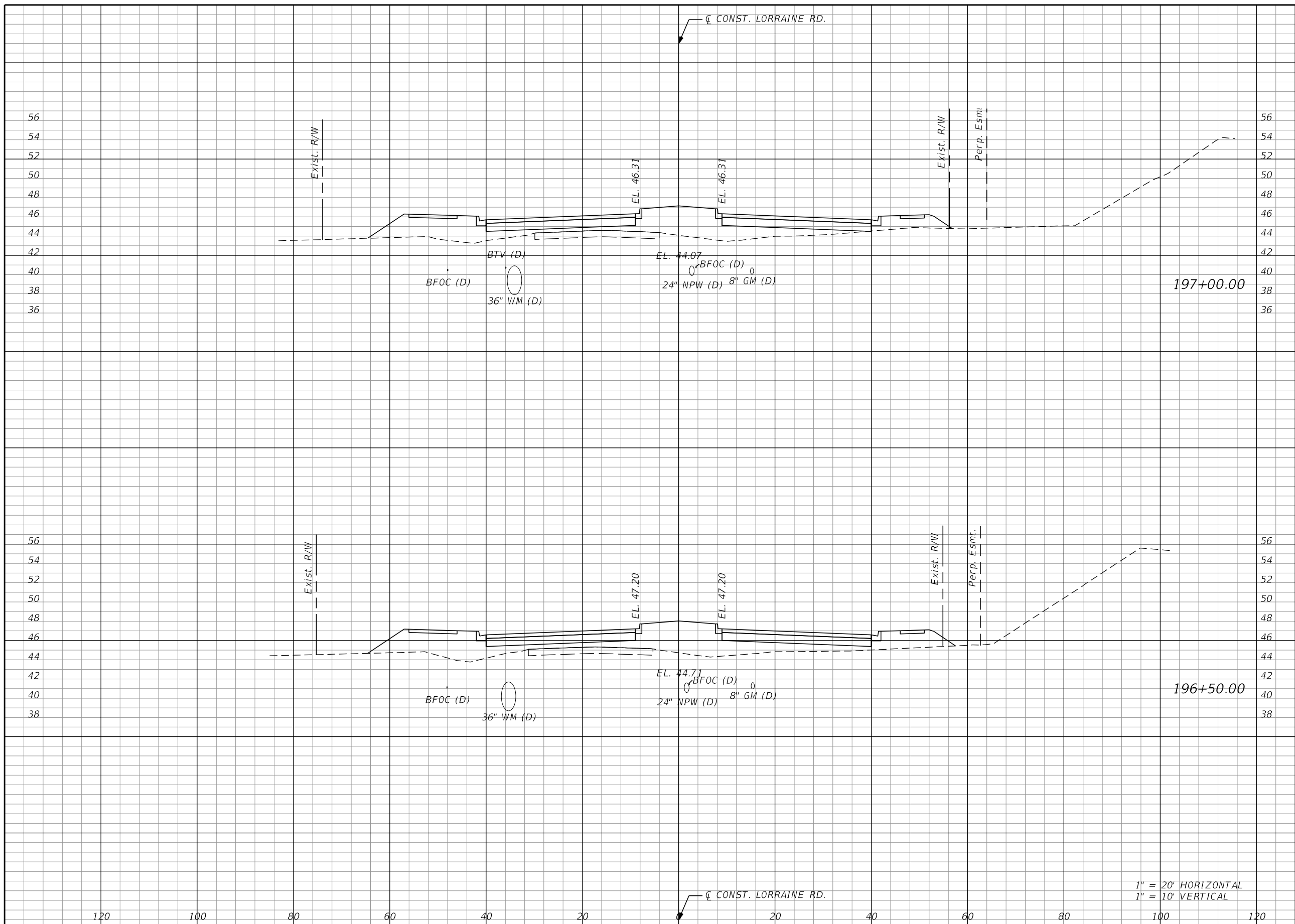
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	SHEET NO. 163
No. REVISIONS DATE BY			PROJECT NO. 6107660		CROSS SECTIONS	

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



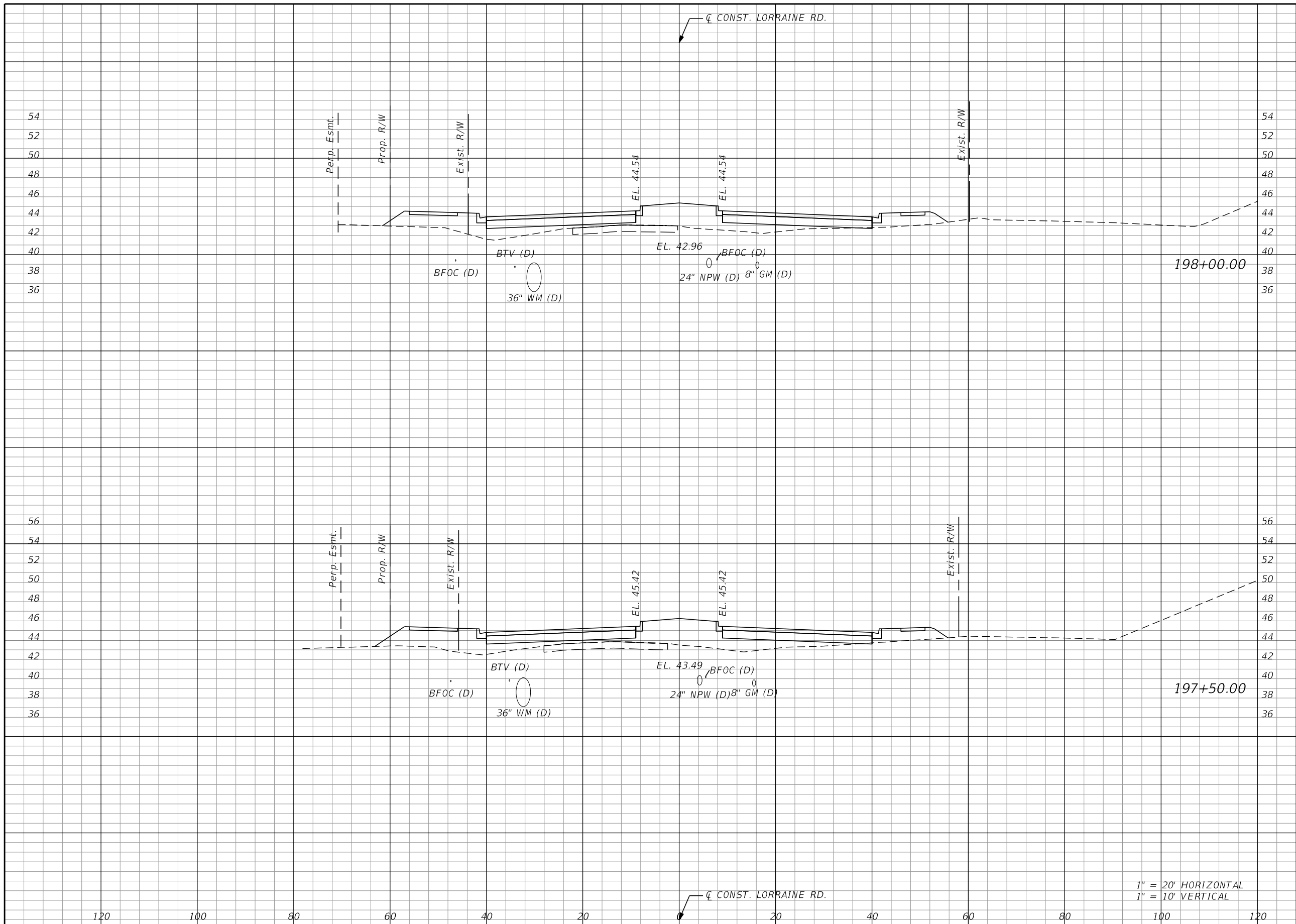
Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	SHEET NO. 164
PROJECT NO. 6107660			CROSS SECTIONS			



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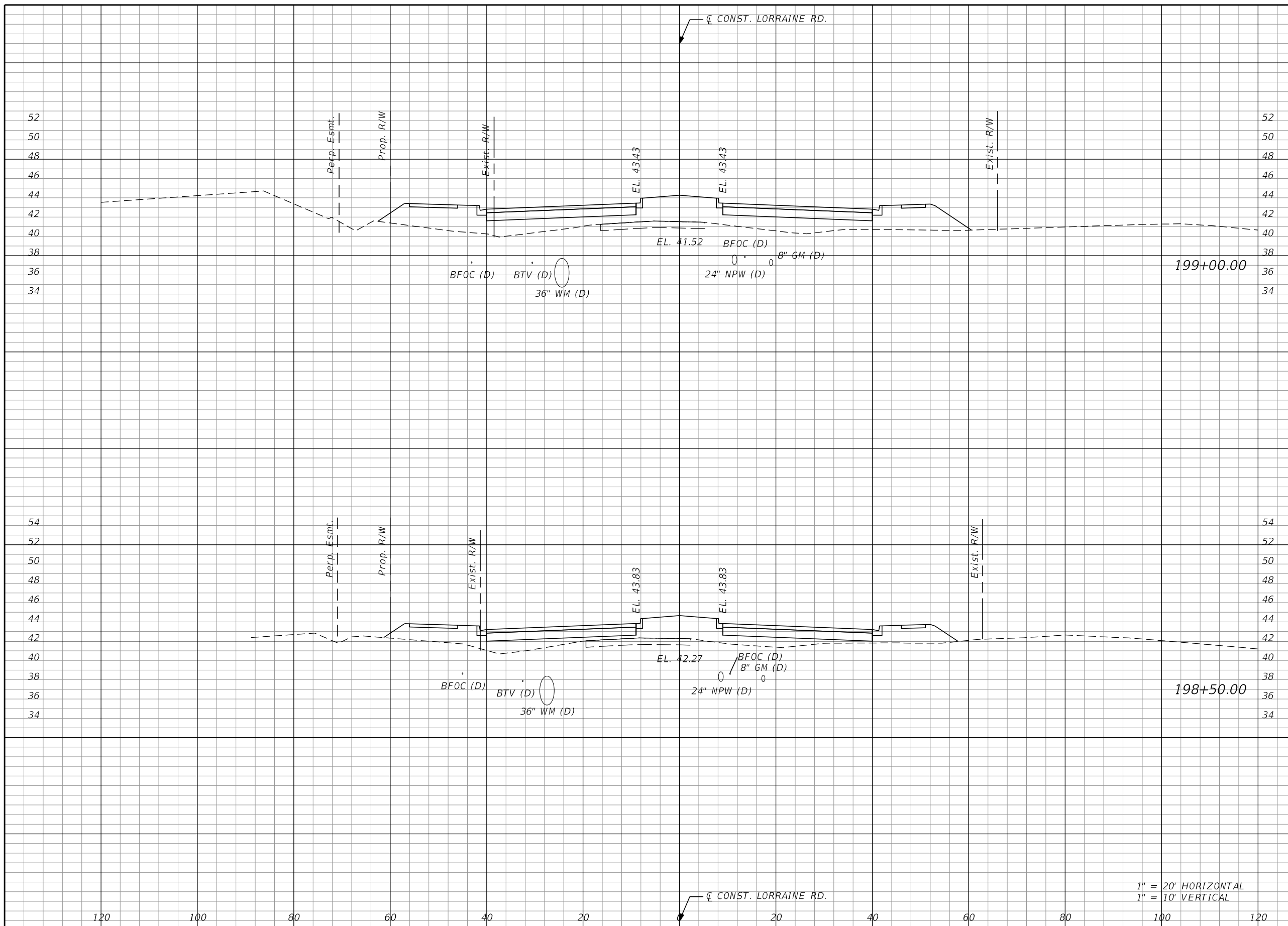
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 165
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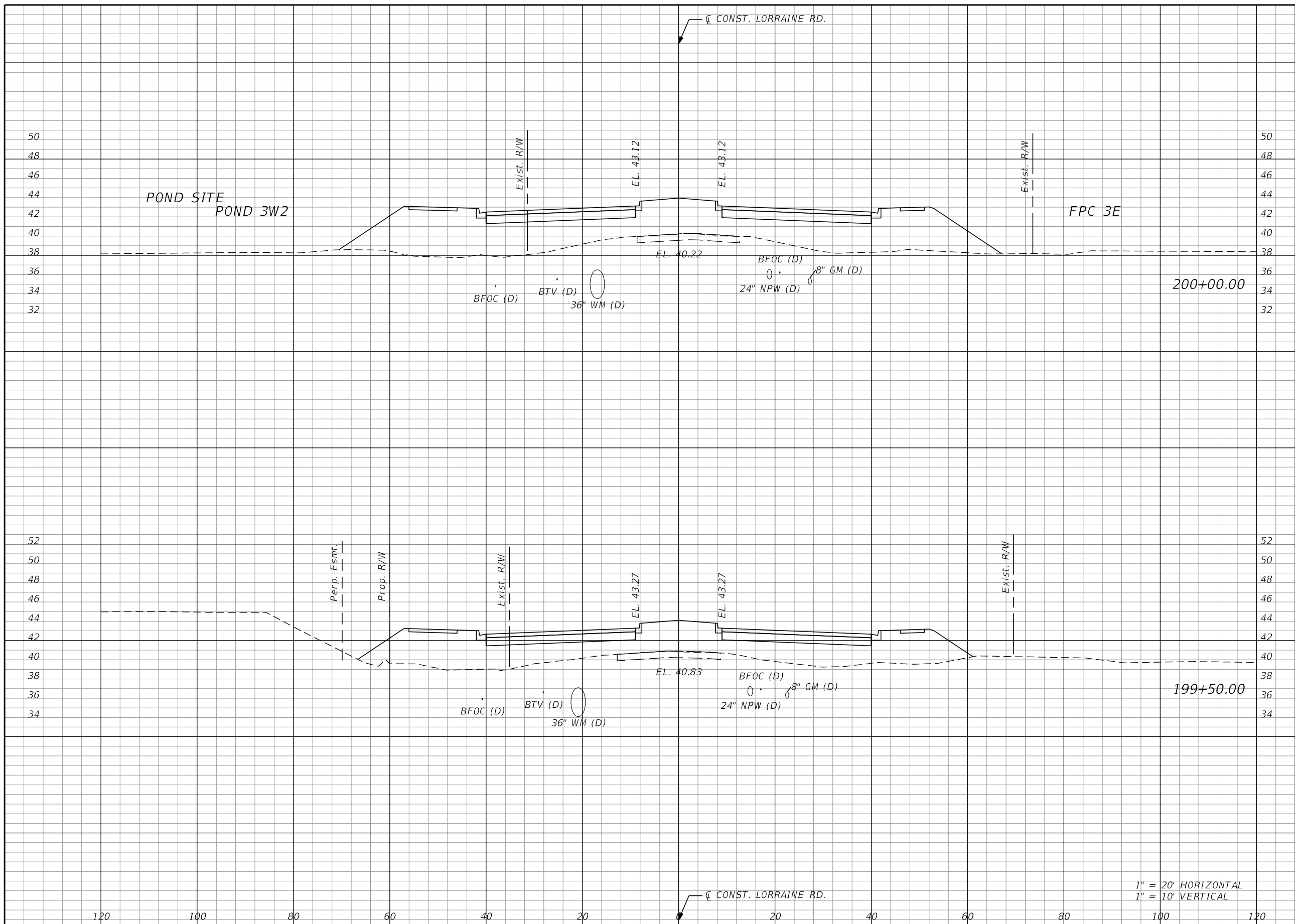
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 166
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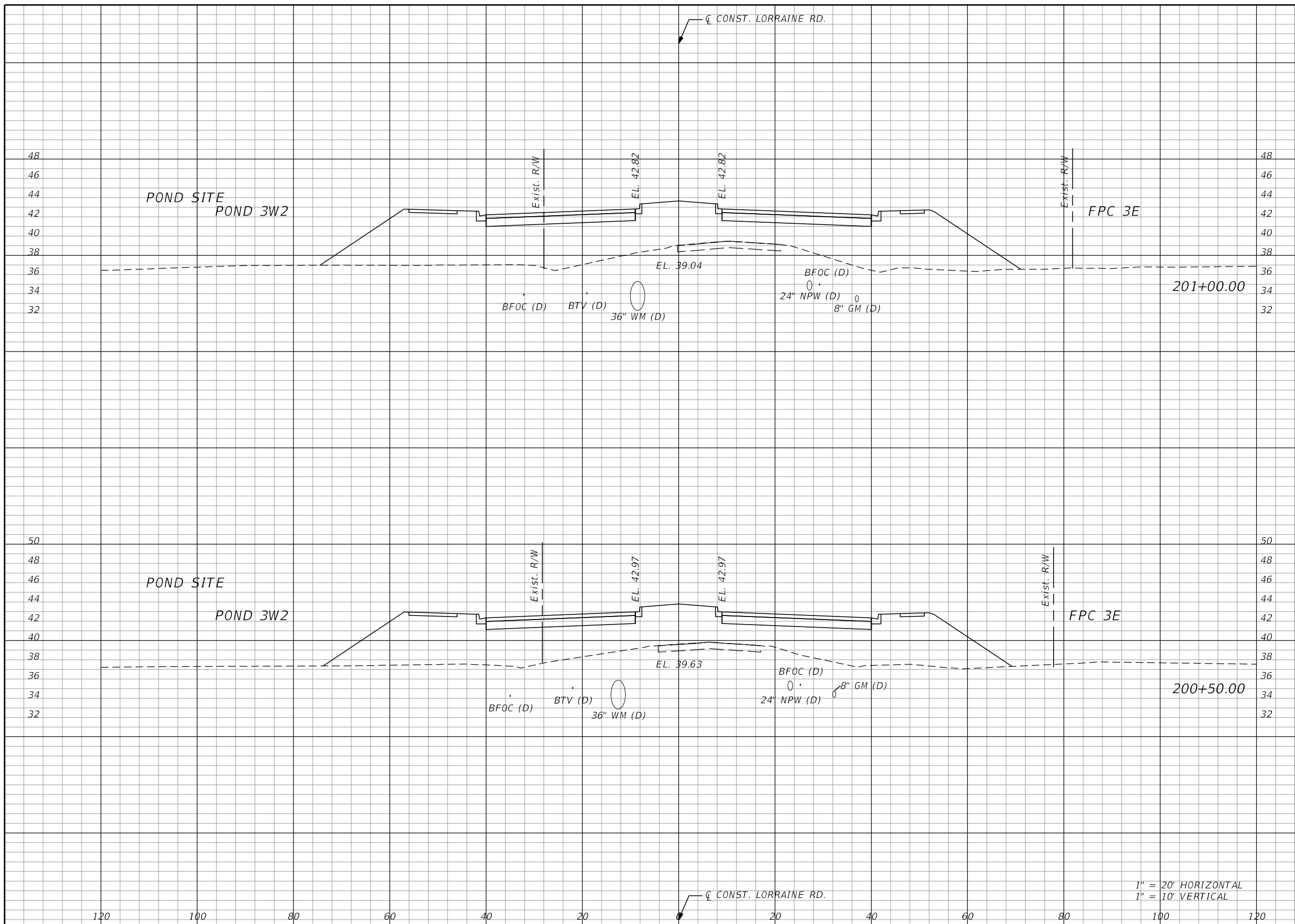
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 167
No. REVISIONS DATE BY			PROJECT NO. 6107660		1" = 20' HORIZONTAL 1" = 10' VERTICAL		

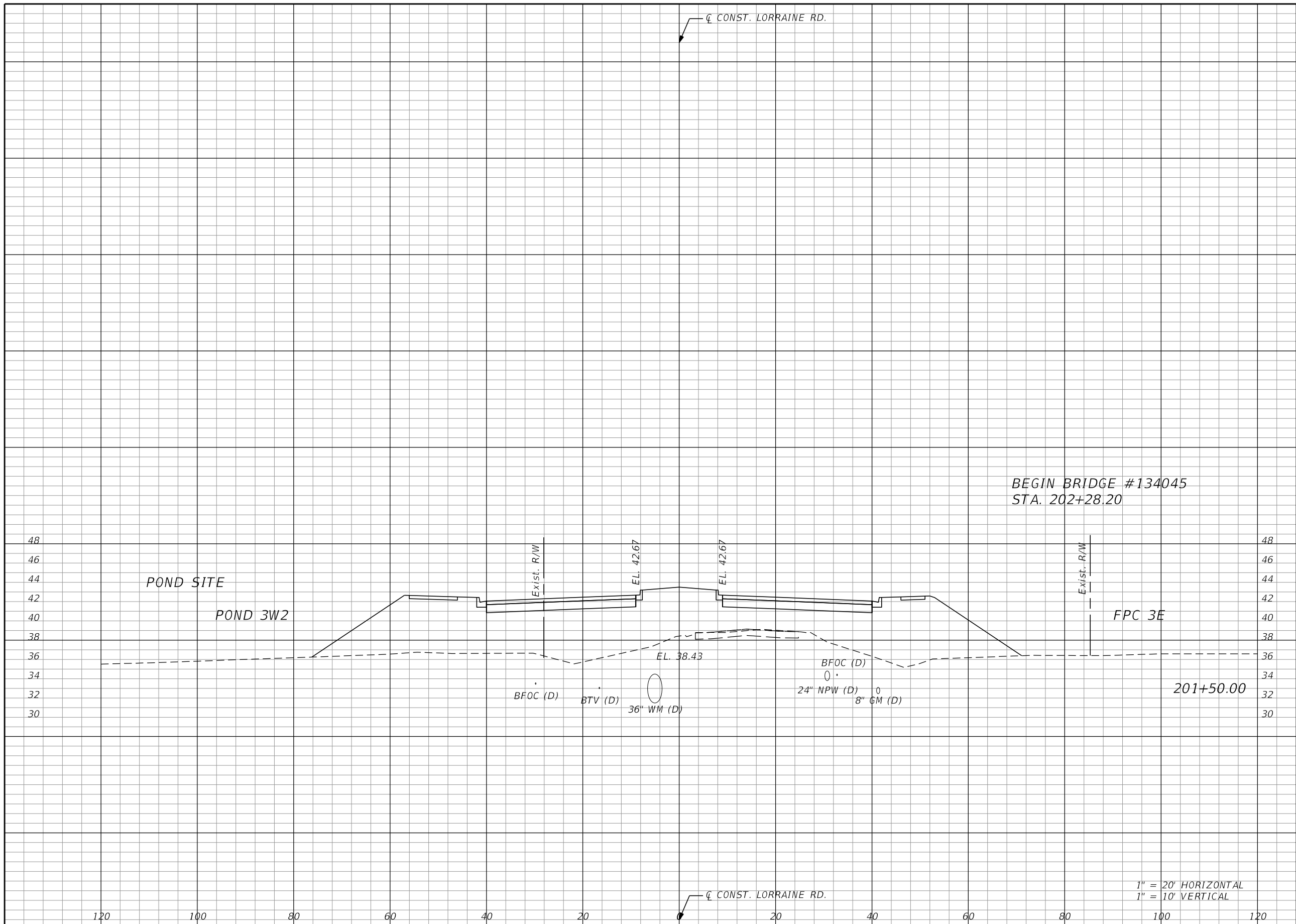
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 168
PROJECT NO. 6107660	1" = 20' HORIZONTAL 1" = 10' VERTICAL						

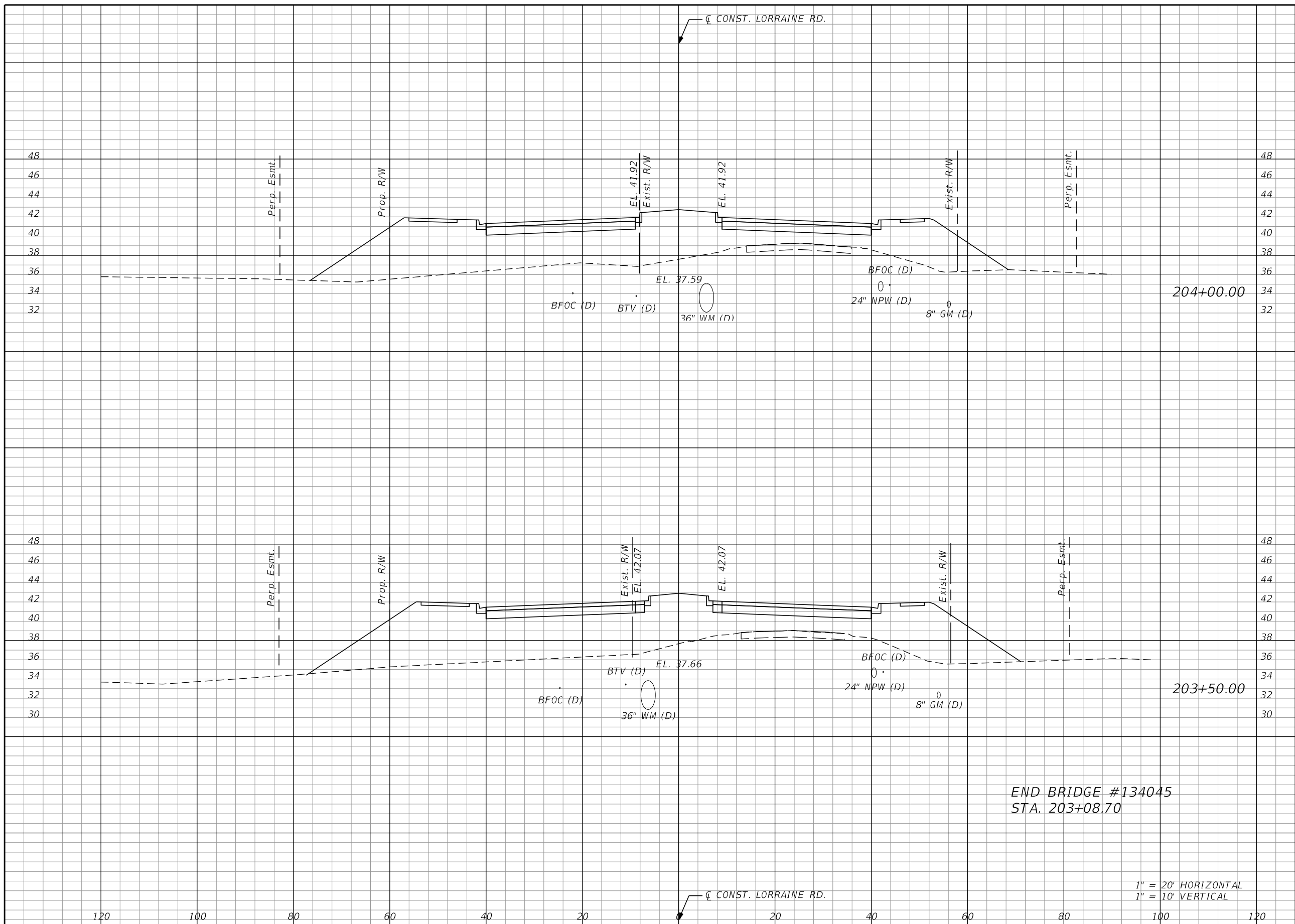
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO.
No. REVISIONS DATE BY			PROJECT NO. 6107660		1" = 20' HORIZONTAL 1" = 10' VERTICAL		

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	A	V

END BRIDGE #134045
STA. 203+08.70

1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

SCALE AS NOTED
DESIGNED BY BLZ
DRAWN BY JMA
CHECKED BY JLS

HDR
HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE 11/2022
PROJECT NO. 6107660



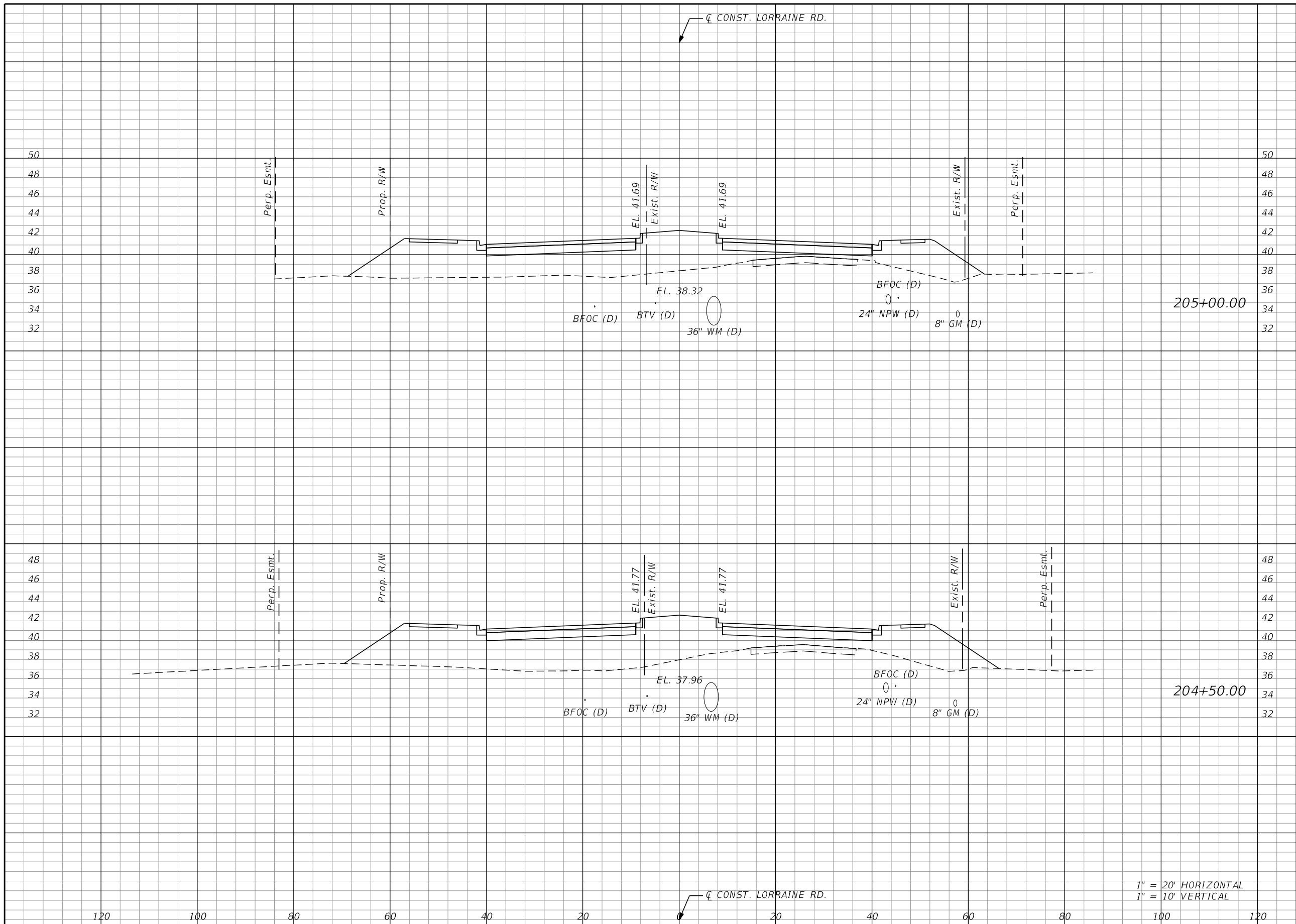
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
BRIAN L. ZIMMERMAN
FL. LICENSE NO. 78557



CROSS SECTIONS

SHEET NO.
170

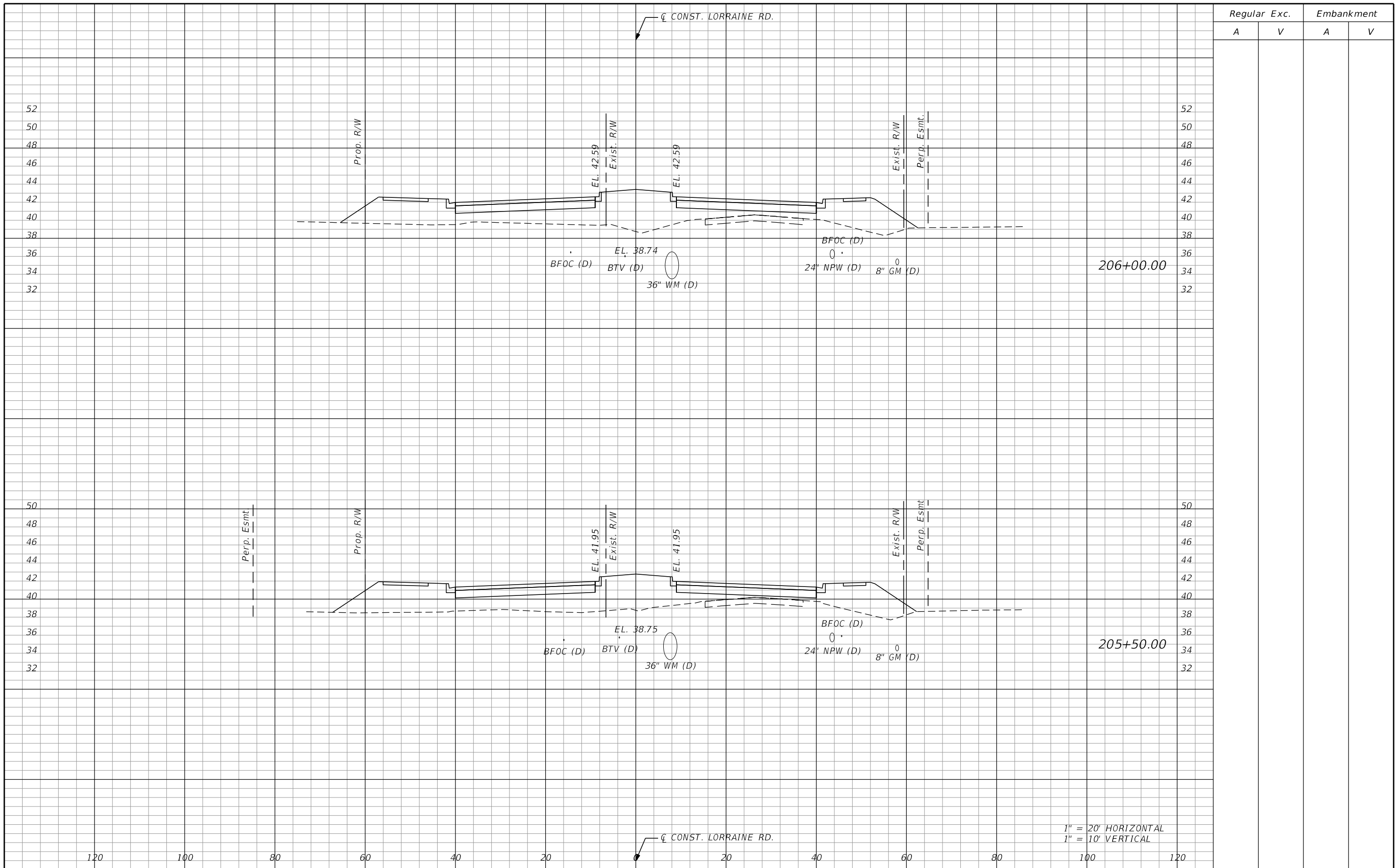
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022 PROJECT NO. 6107660		 MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		CROSS SECTIONS		SHEET NO. 171	
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular Exc. Embankment

A V A V

206+00.00

205+50.00

1" = 20' HORIZONTAL
1" = 10' VERTICAL

SCALE	AS NOTED		
DESIGNED BY	BLZ		
DRAWN BY	JMA		
CHECKED BY	JLS		
No.	REVISIONS	DATE	BY

HDR
HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE
11/2022

PROJECT NO.
6107660



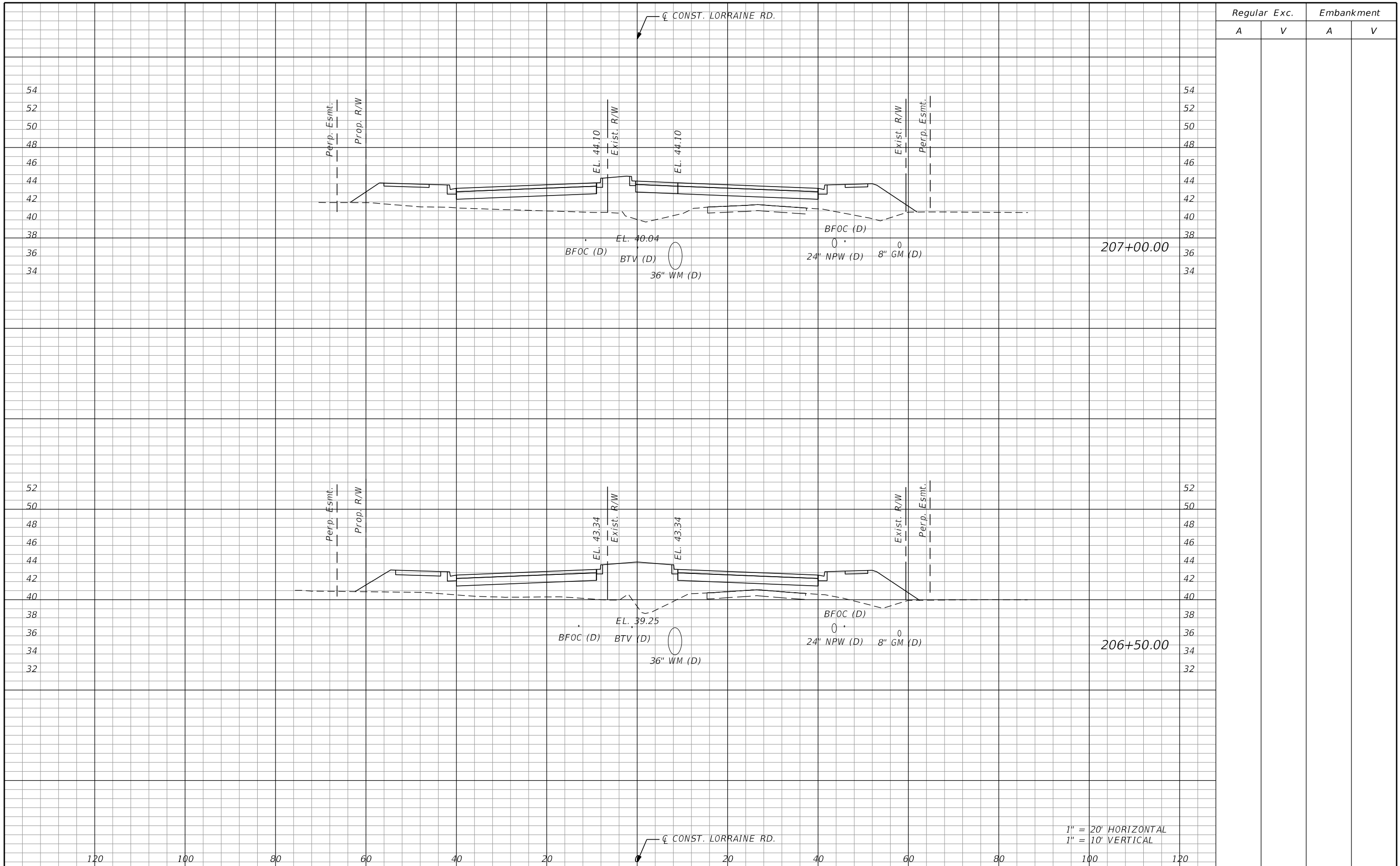
**MANATEE COUNTY
PUBLIC WORKS**

DESIGN ENGINEER
BRIAN L. ZIMMERMAN
FL. LICENSE NO.
78557



CROSS SECTIONS

SHEET NO.
172

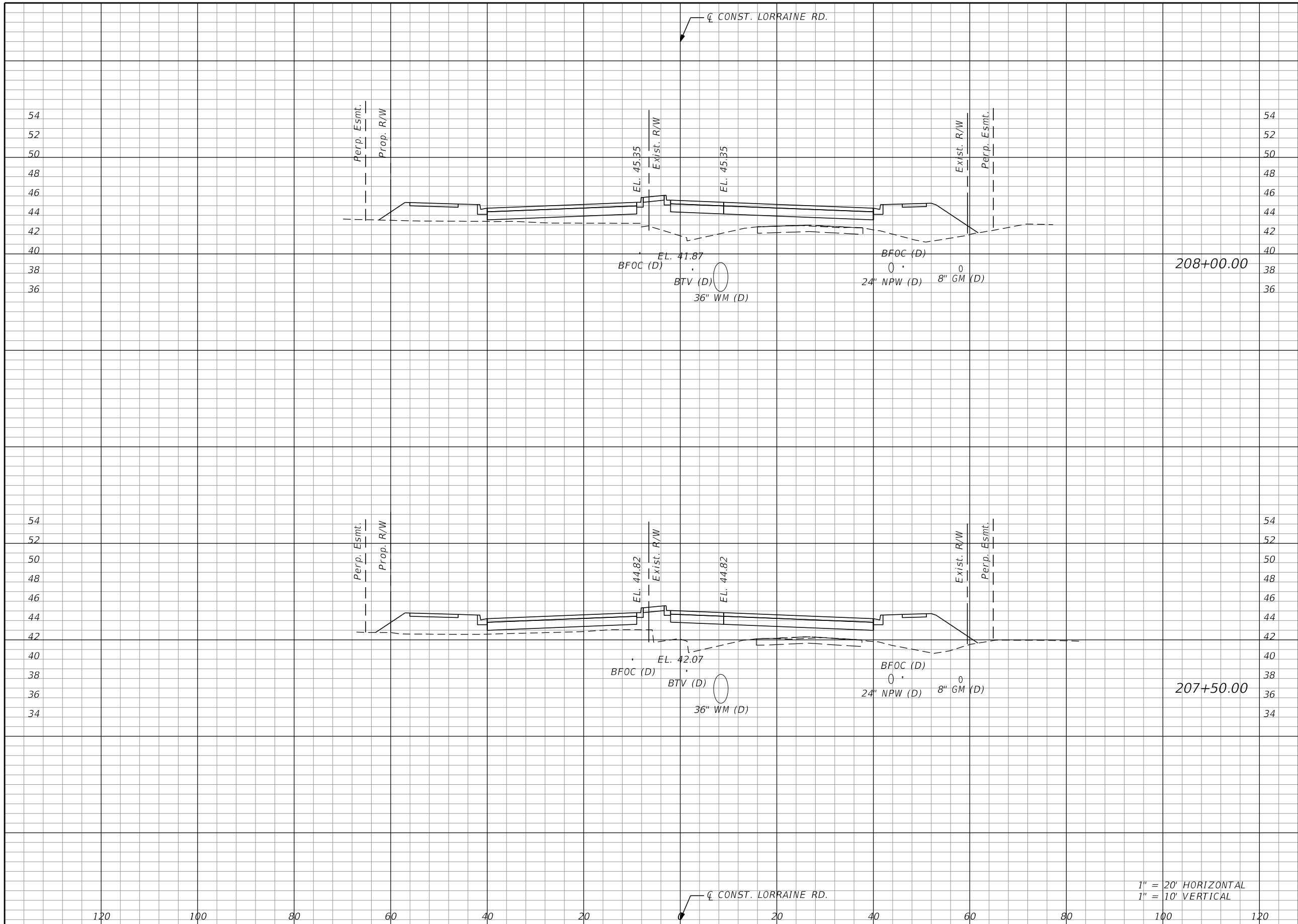
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022 PROJECT NO. 6107660		 MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		CROSS SECTIONS		SHEET NO. 173	
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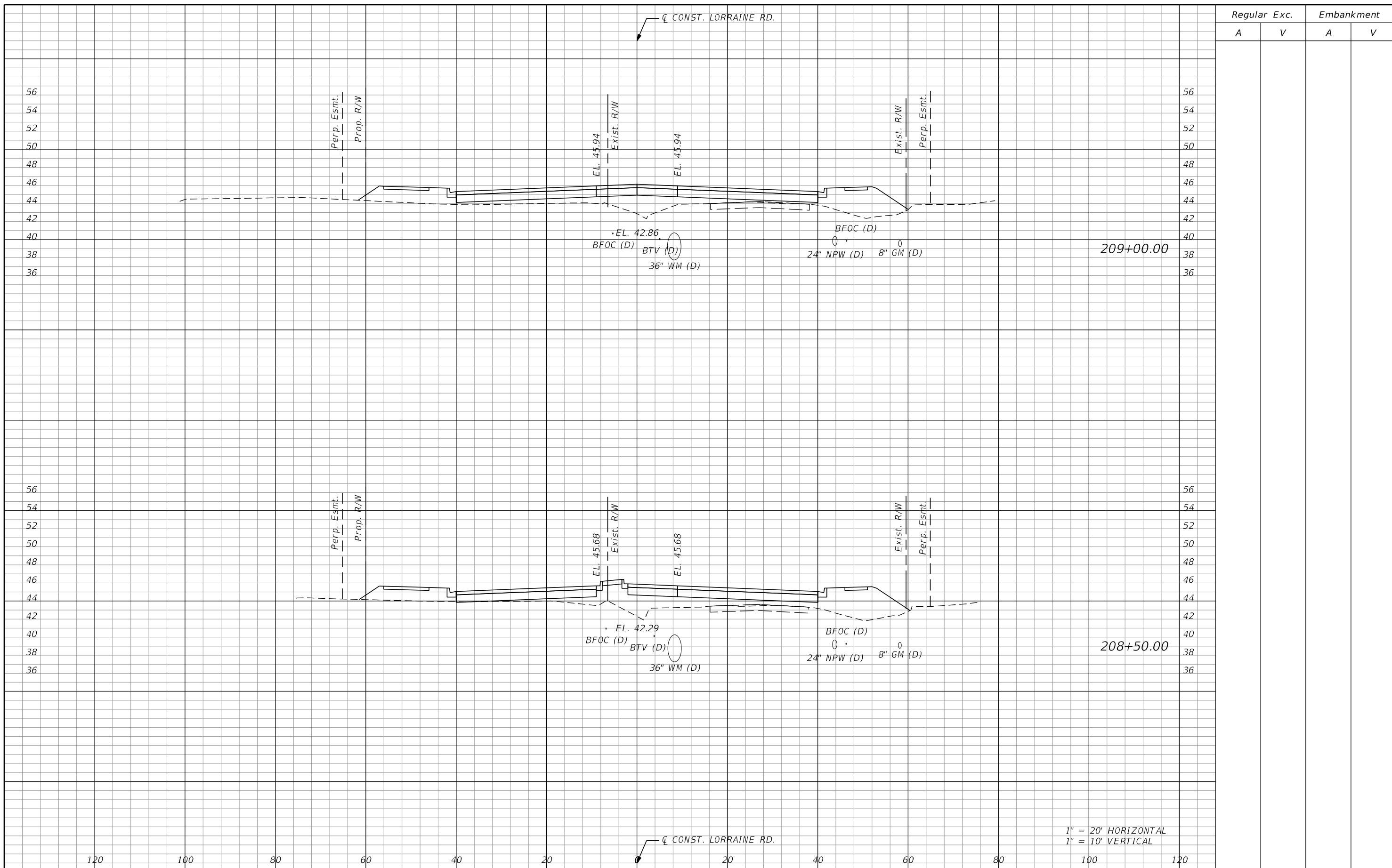
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

No. _____ REVISIONS _____ DATE _____ BY _____	SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6107660	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	<h2 style="font-size: 24px; margin: 0;">CROSS SECTIONS</h2>	SHEET NO. <div style="font-size: 24px; font-weight: bold;">174</div>
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



1" = 20' HORIZONTAL
1" = 10' VERTICAL

Regular		Exc.		Embankment	
A	V	A	V	A	V

No.	REVISIONS	DATE	BY

SCALE AS NOTED

DESIGNED BY BLZ

DRAWN BY JMA

CHECKED BY JLS

HDR
HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6107660

Manatee County
FLORIDA

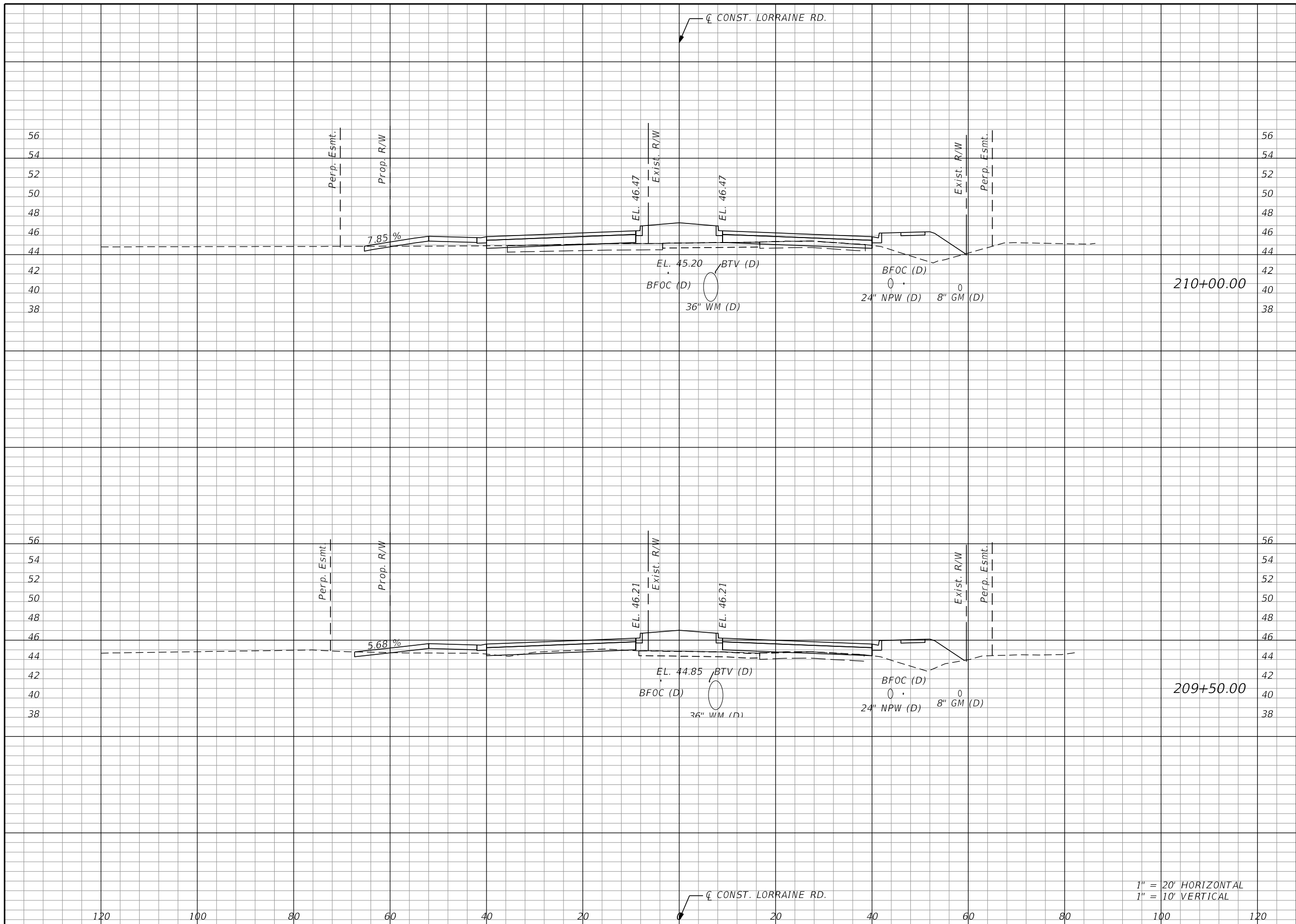
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557

CROSS SECTIONS

SHEET NO.	175
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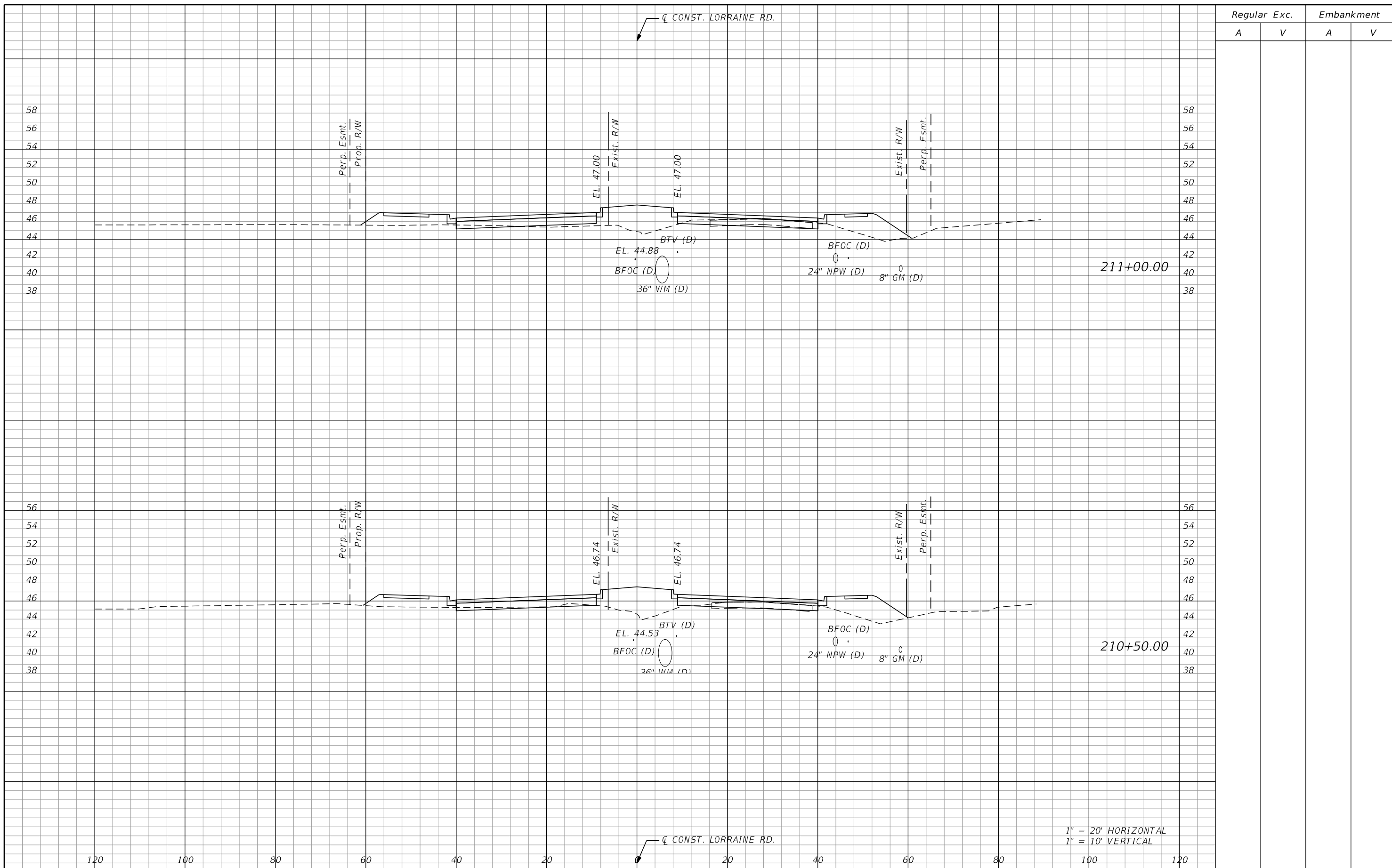
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6107660	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 176
No. REVISIONS DATE BY							

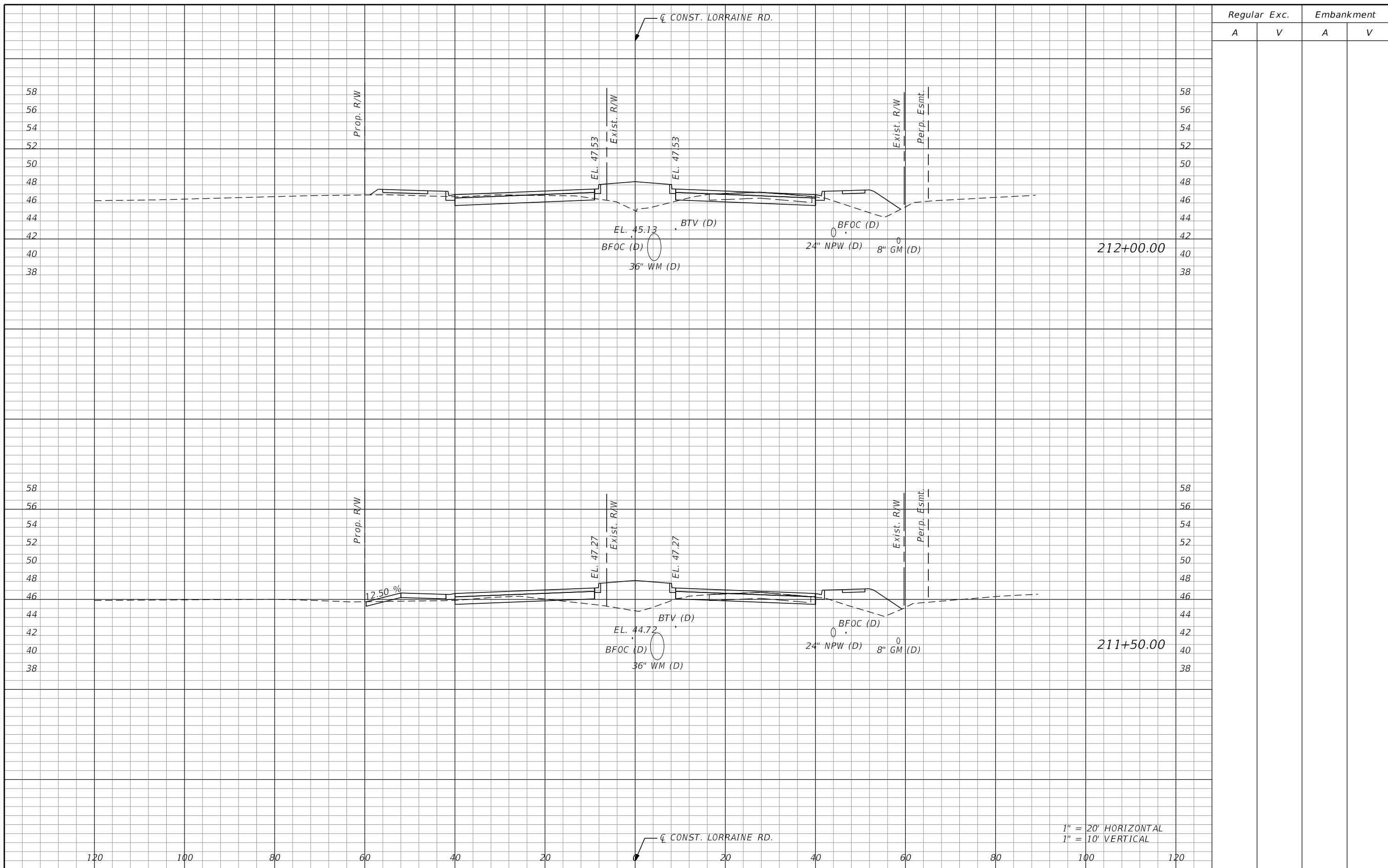
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 177
No. REVISIONS DATE BY	PROJECT NO. 6107660		1" = 20' HORIZONTAL 1" = 10' VERTICAL				

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

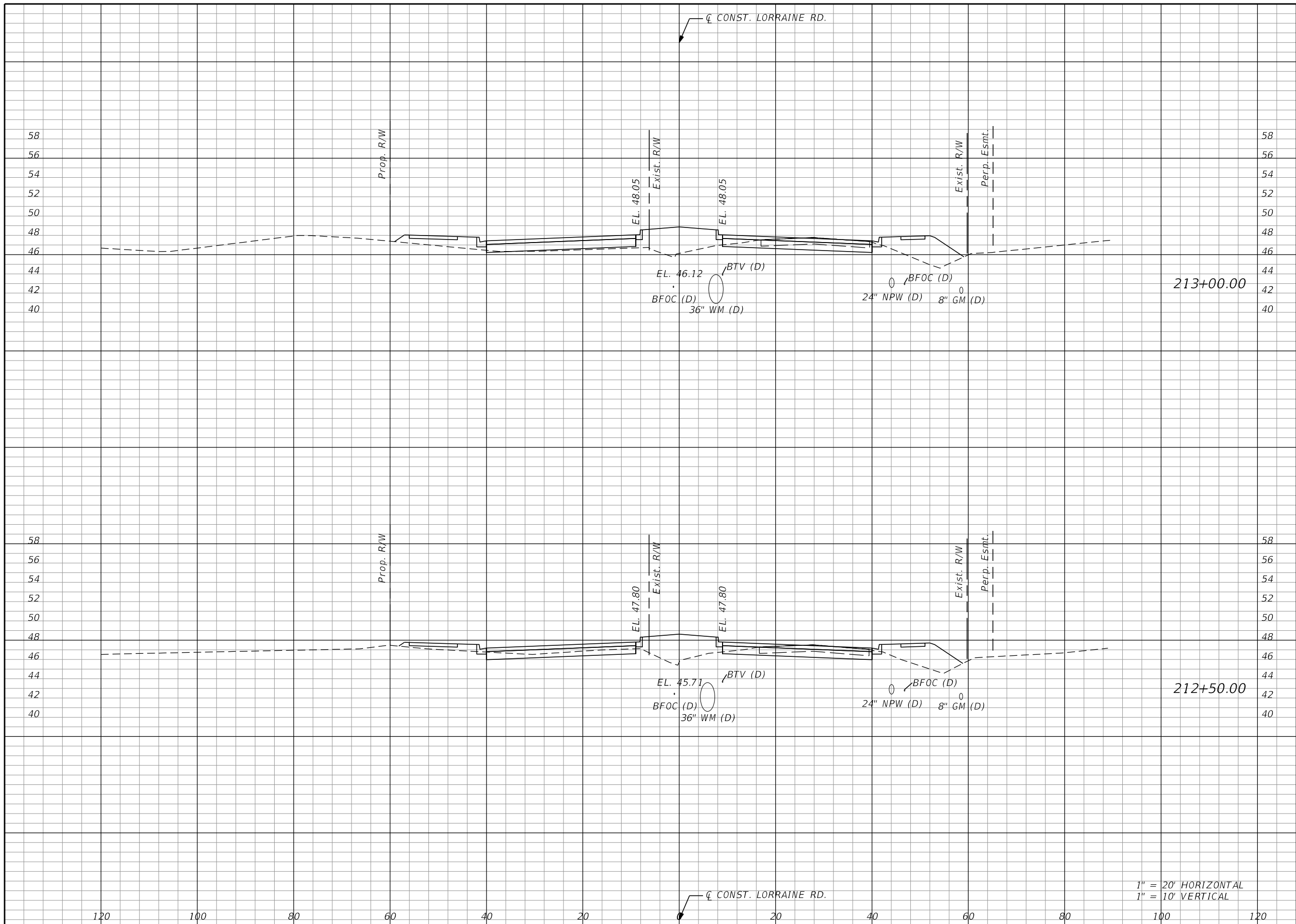
212+00.00

211+50.00

1" = 20' HORIZONTAL
1" = 10' VERTICAL

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS				HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022 PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		SHEET NO. 178	
REVISIONS No. DATE BY								CROSS SECTIONS					

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	A	V

1" = 20' HORIZONTAL
1" = 10' VERTICAL

SCALE	AS NOTED		
DESIGNED BY	BLZ		
DRAWN BY	JMA		
CHECKED BY	JLS		
No.	REVISIONS	DATE	BY

HDR
HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE
11/2022

PROJECT NO.
6107660



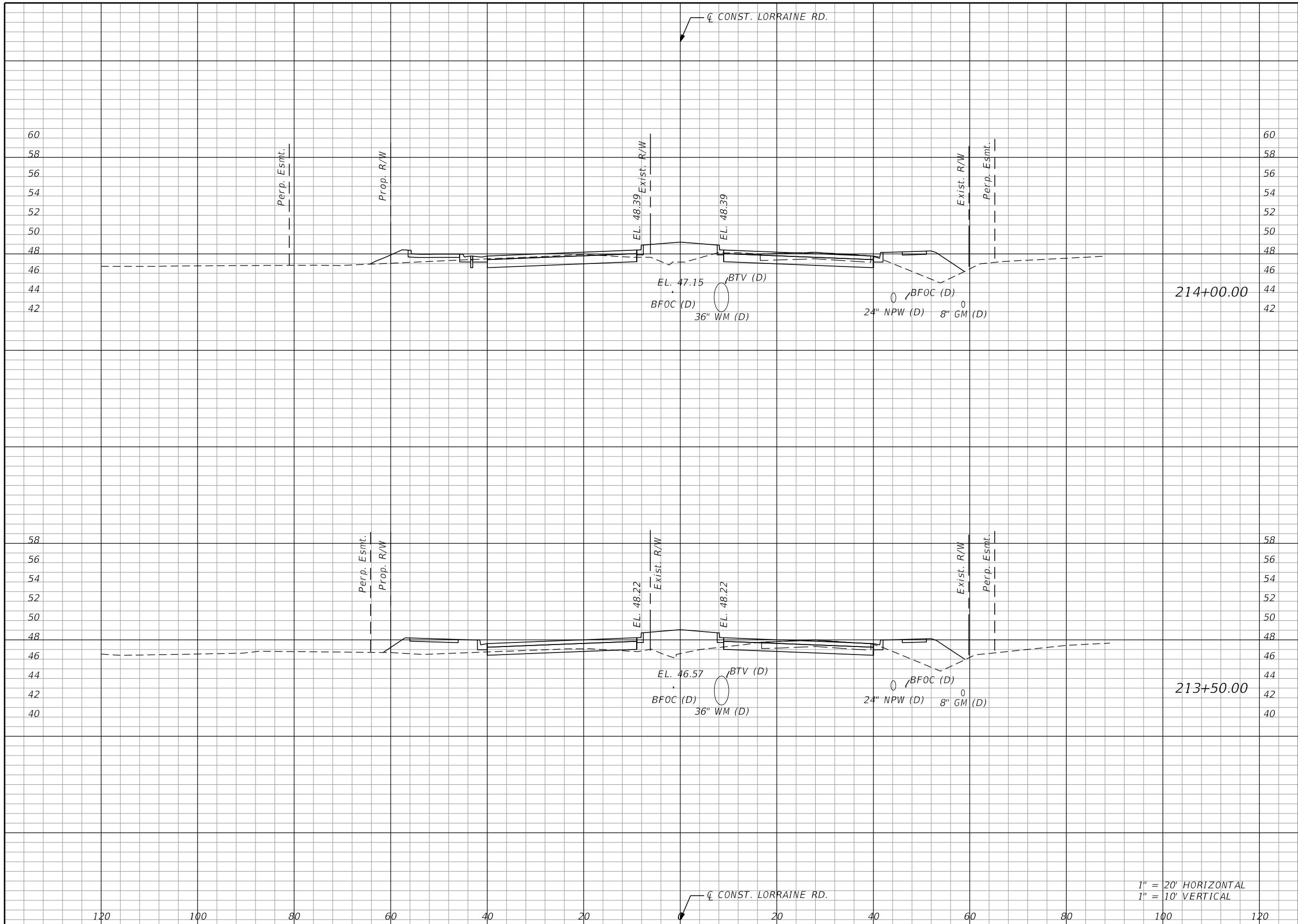
**MANATEE COUNTY
PUBLIC WORKS**

DESIGN ENGINEER
BRIAN L. ZIMMERMAN
FL. LICENSE NO.
78557

CROSS SECTIONS

SHEET NO. 179

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	A	V

1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE 11/2022
 PROJECT NO. 6107660



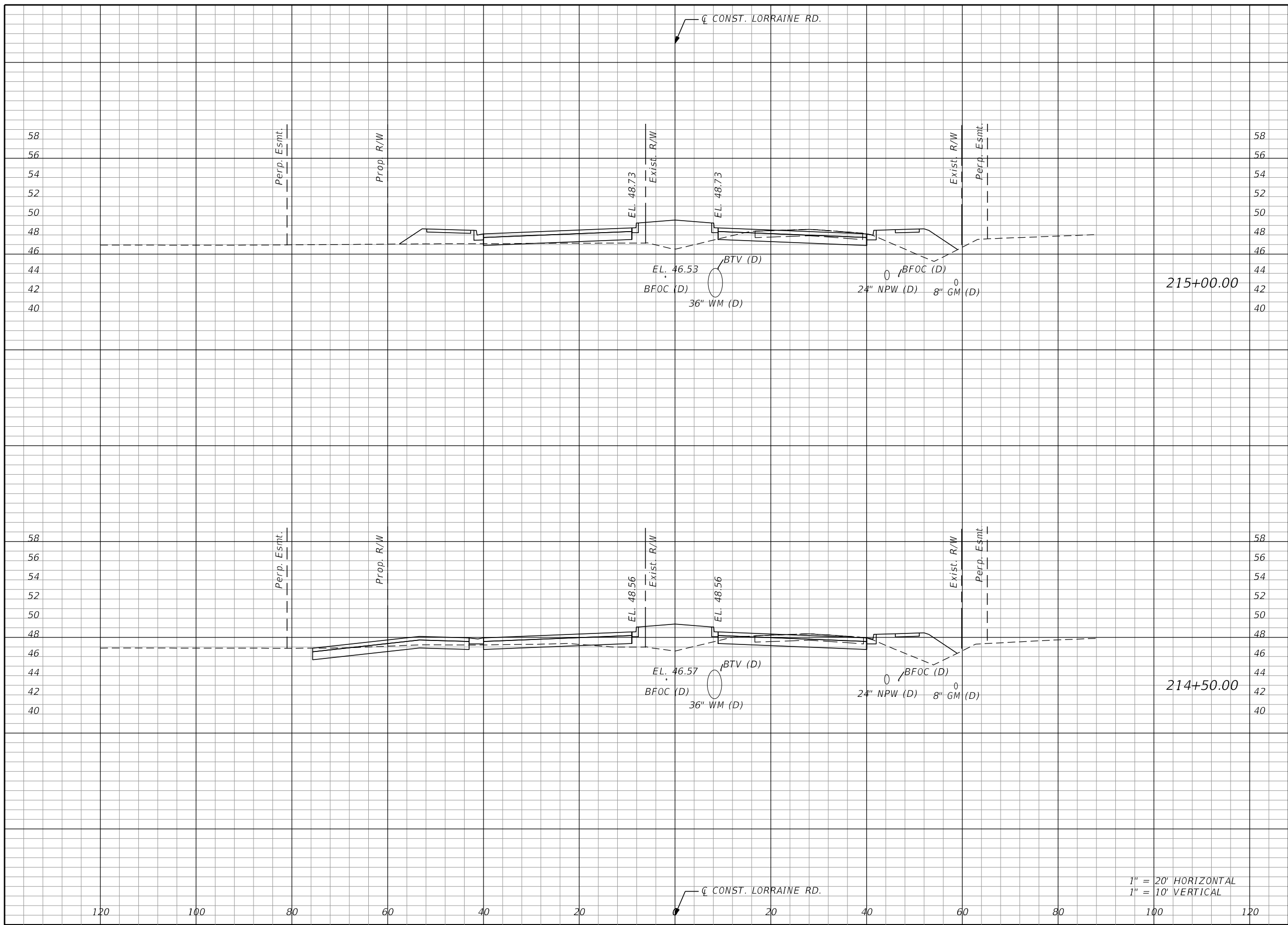
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
BRIAN L. ZIMMERMAN
FL. LICENSE NO. 78557

CROSS SECTIONS

SHEET NO. 180

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	A	V

1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

SCALE	AS NOTED
DESIGNED BY	BLZ
DRAWN BY	JMA
CHECKED BY	JLS



HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6107660



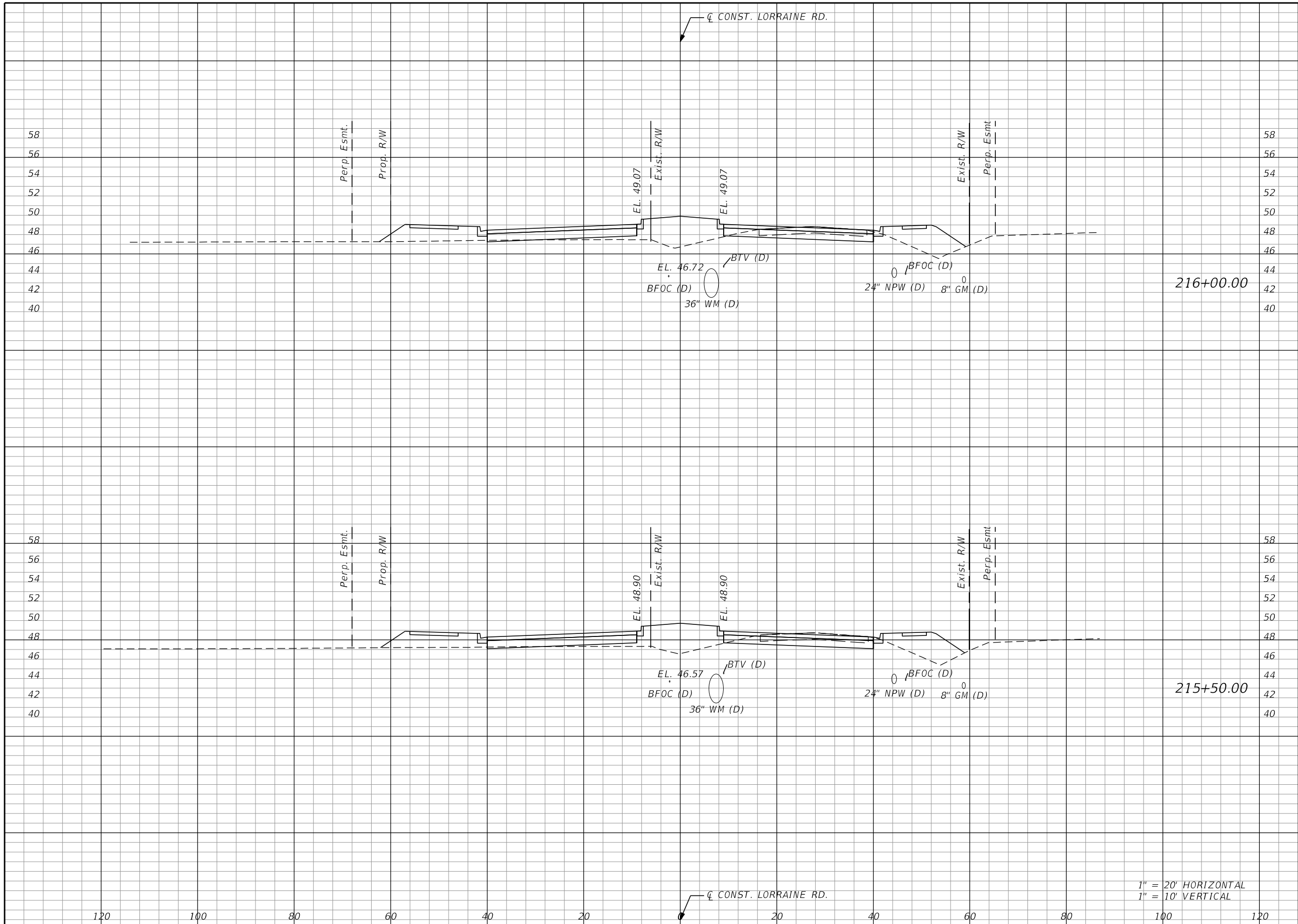
**MANATEE COUNTY
PUBLIC WORKS**

DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557

CROSS SECTIONS

SHEET NO.
181

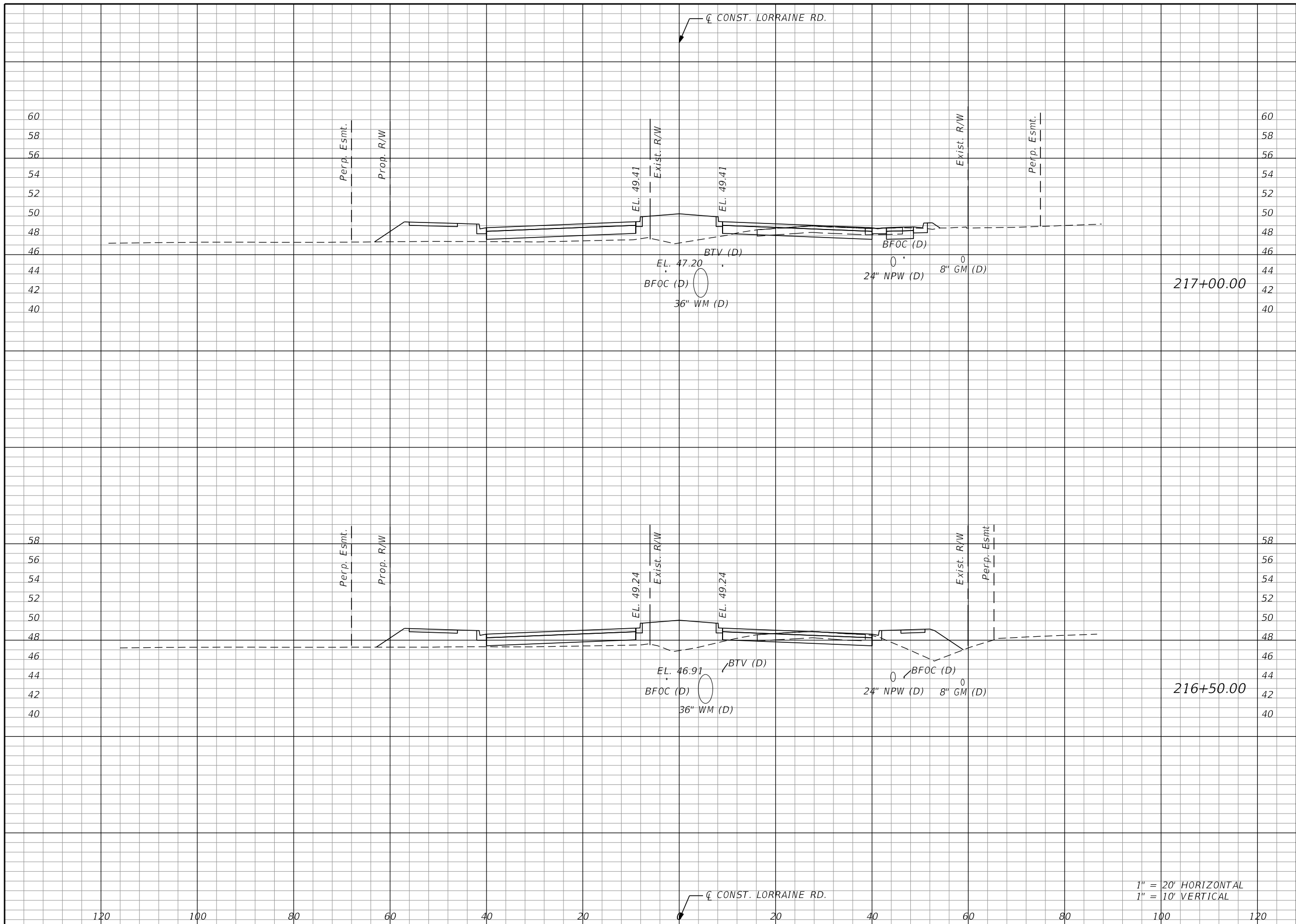
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 182
PROJECT NO. 6107660	1" = 20' HORIZONTAL 1" = 10' VERTICAL						

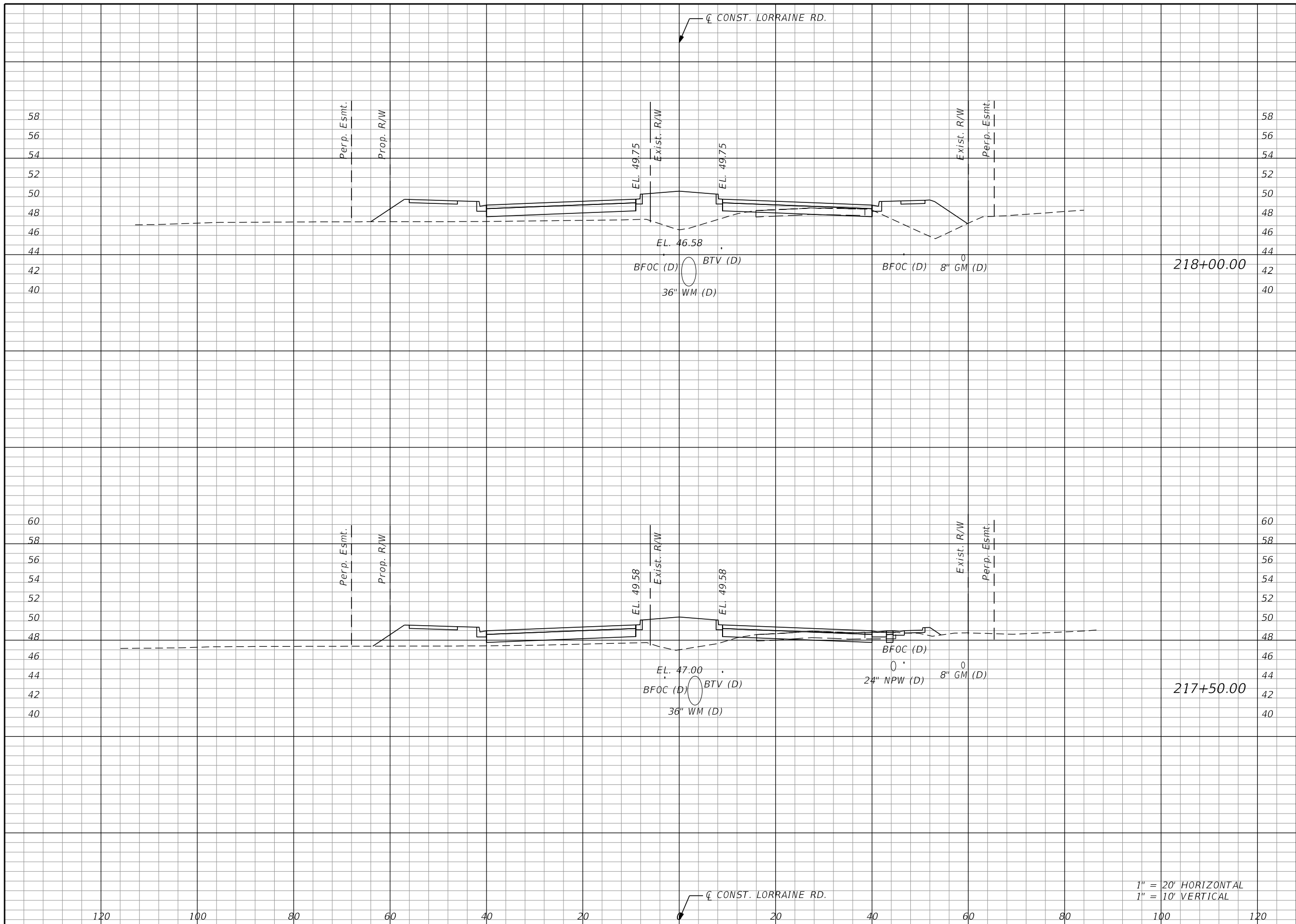
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	SHEET NO. 183
No. REVISIONS DATE BY			PROJECT NO. 6107660		CROSS SECTIONS	

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	A	V

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE 11/2022
 PROJECT NO. 6107660

MANATEE COUNTY
 PUBLIC WORKS

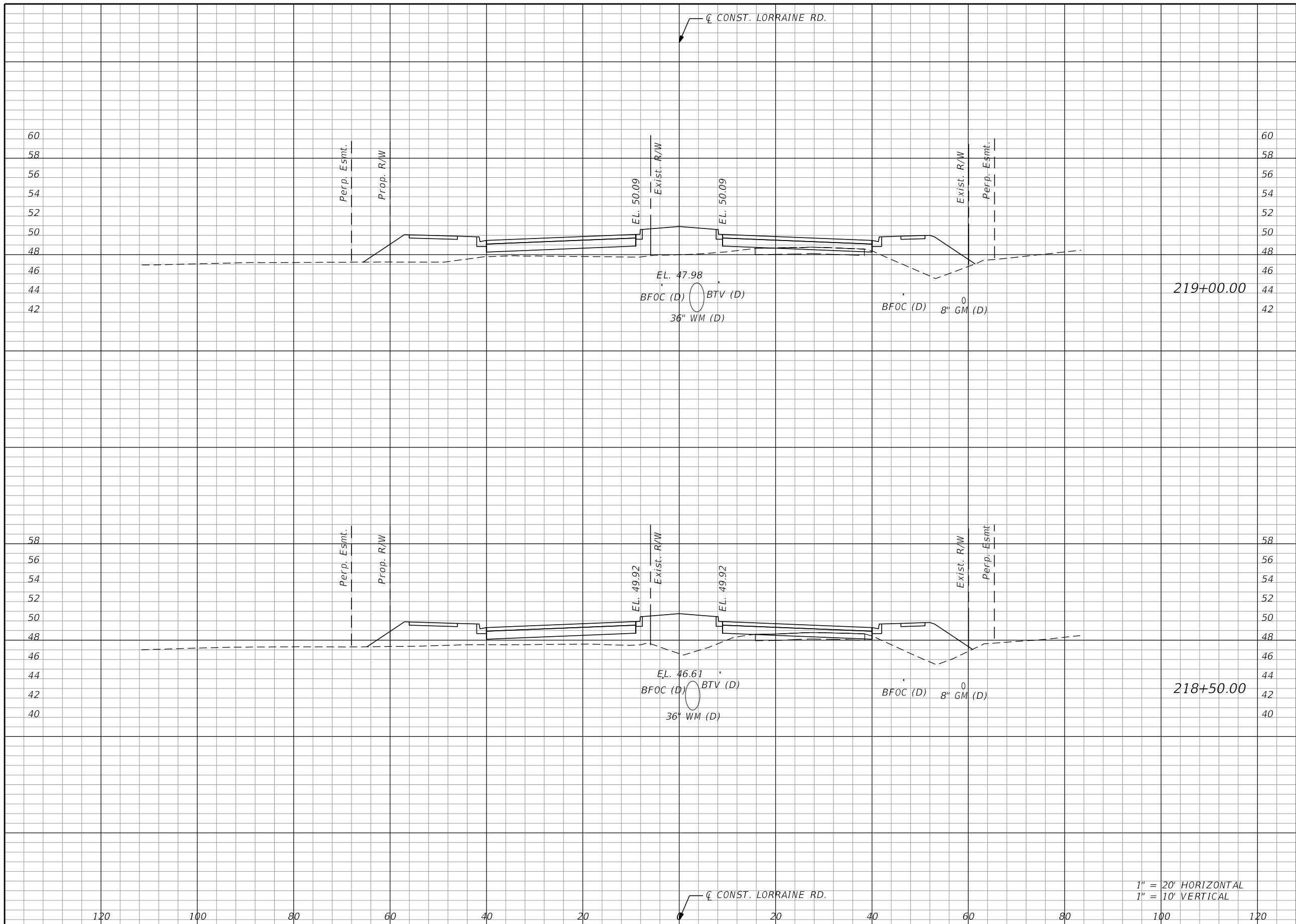
DESIGN ENGINEER
 BRIAN L. ZIMMERMAN
 FL. LICENSE NO. 78557

1" = 20' HORIZONTAL
 1" = 10' VERTICAL

CROSS SECTIONS

SHEET NO.
 184

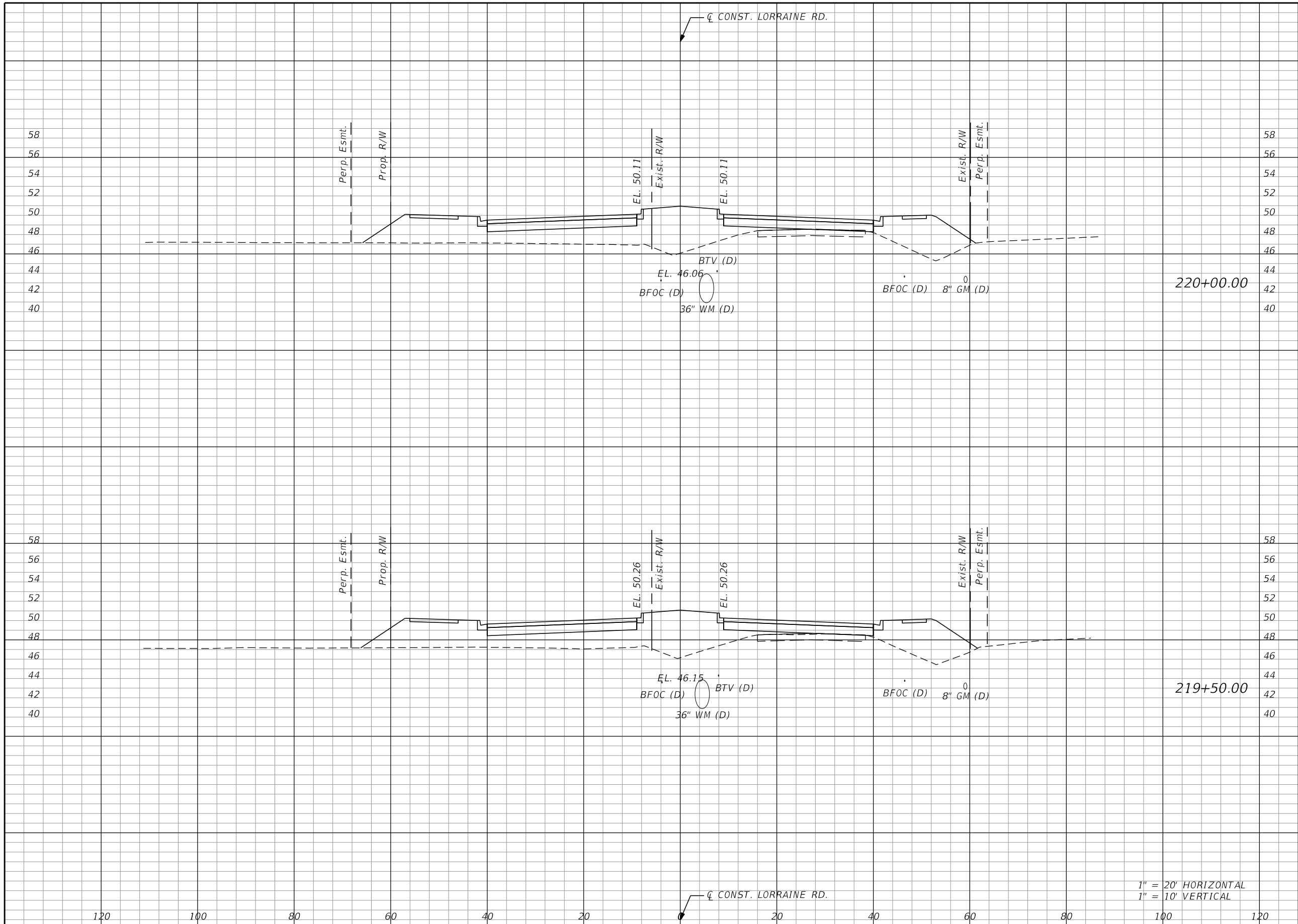
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 185
No. REVISIONS DATE BY	PROJECT NO. 6107660		1" = 20' HORIZONTAL 1" = 10' VERTICAL				

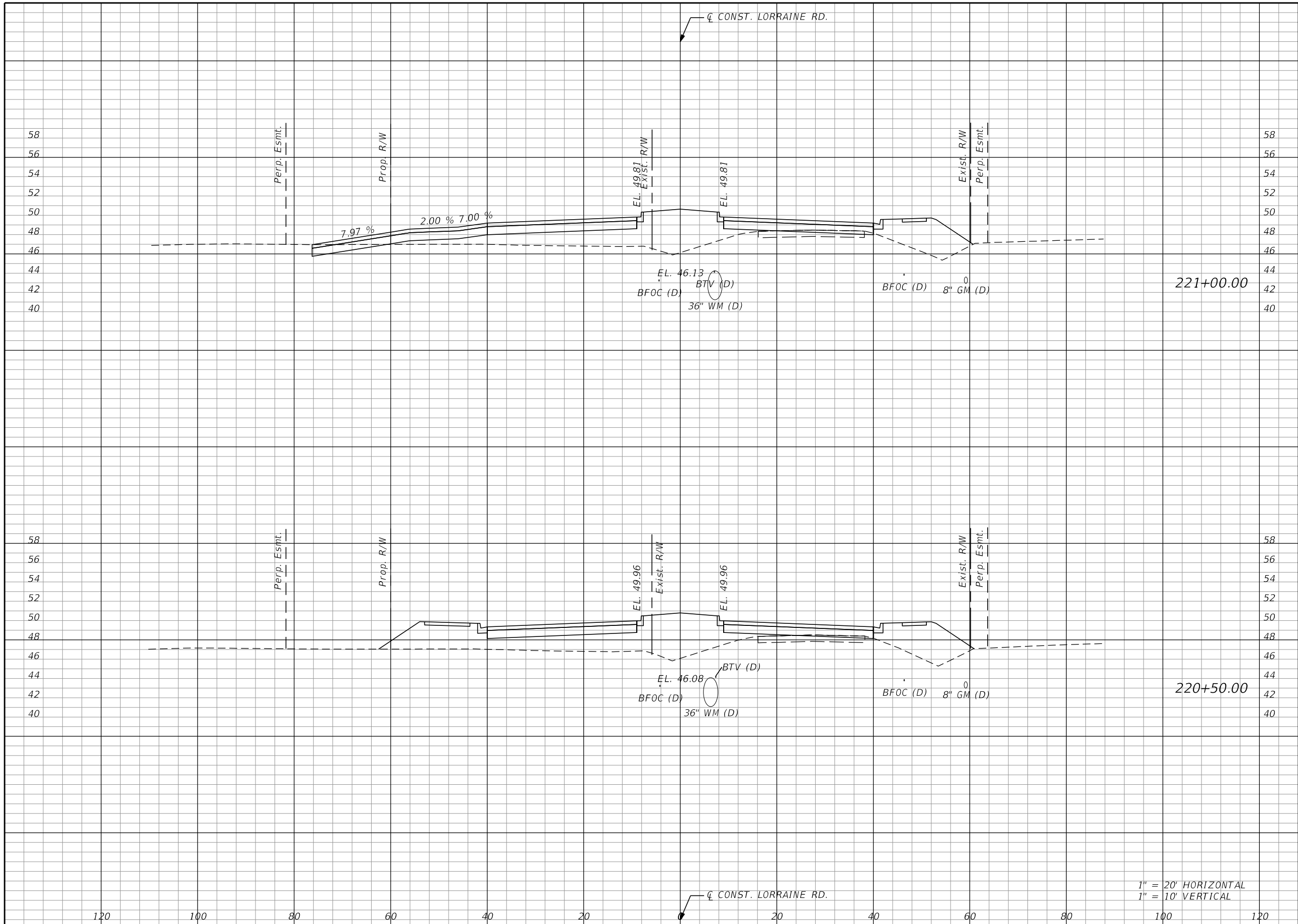
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 186
No. REVISIONS DATE BY	PROJECT NO. 6107660		1" = 20' HORIZONTAL 1" = 10' VERTICAL				

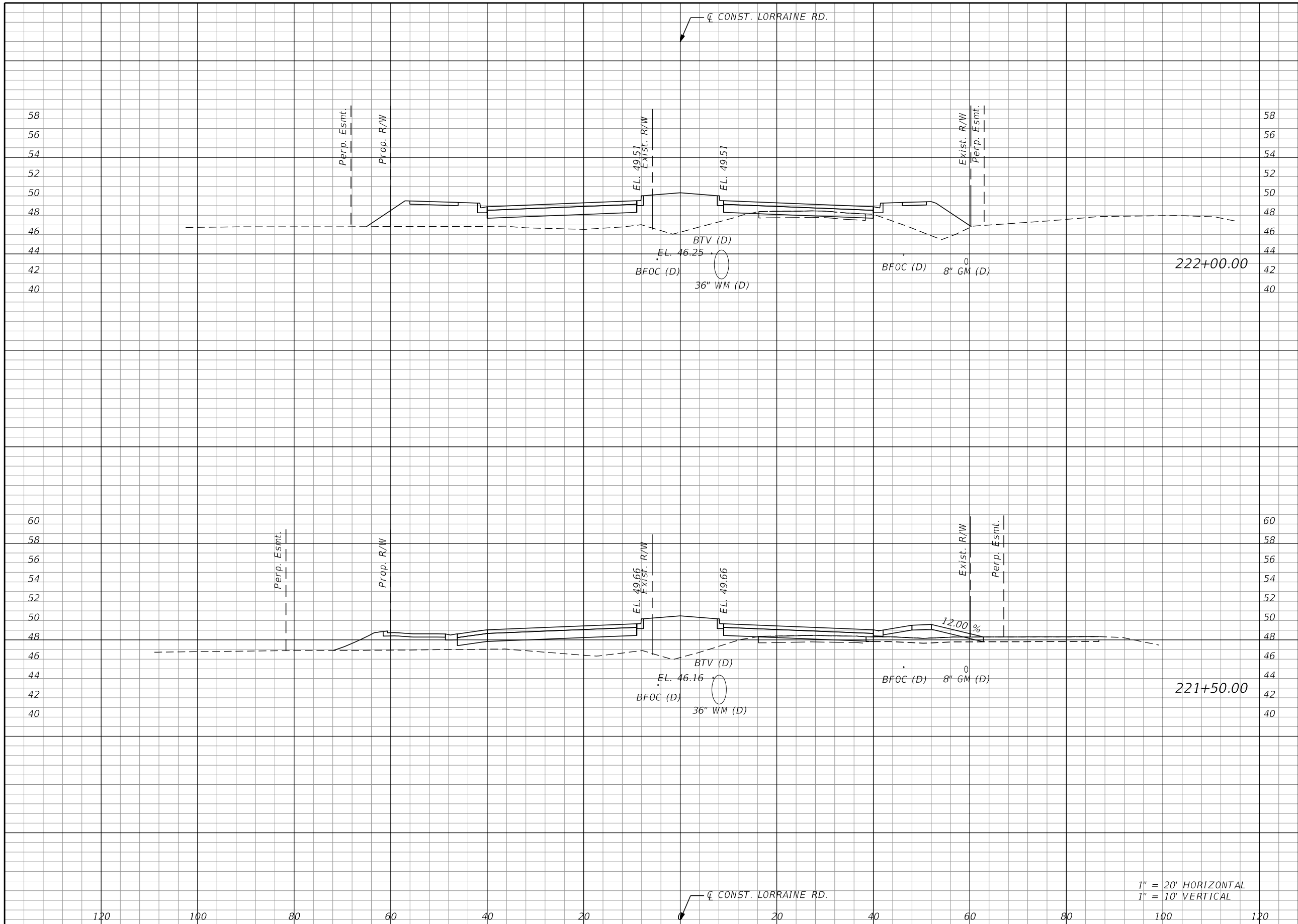
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS SHEET NO. 187
No. REVISIONS DATE BY			PROJECT NO. 6107660		1" = 20' HORIZONTAL 1" = 10' VERTICAL	

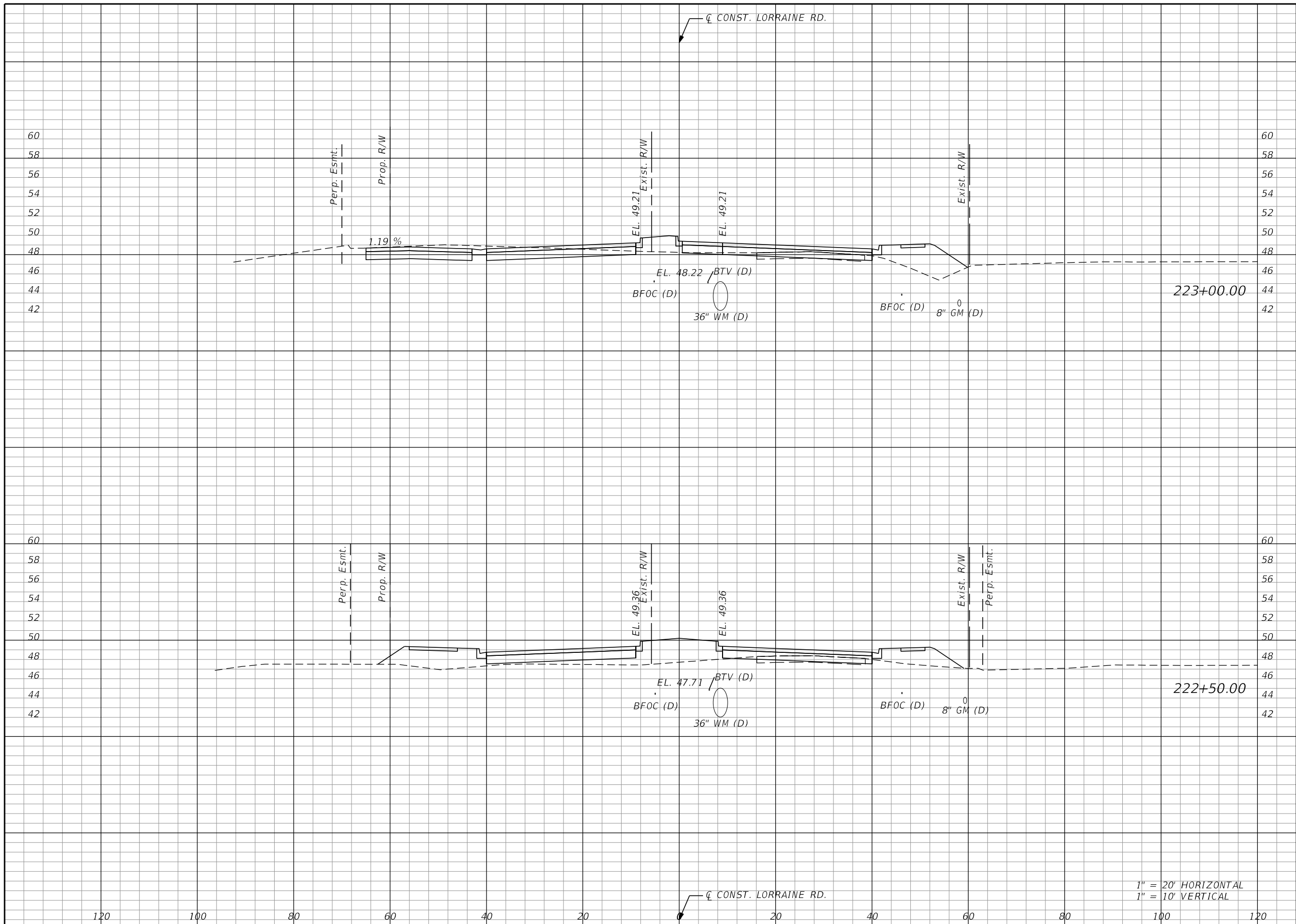
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6107660	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 188
No.	REVISIONS		DATE		BY		

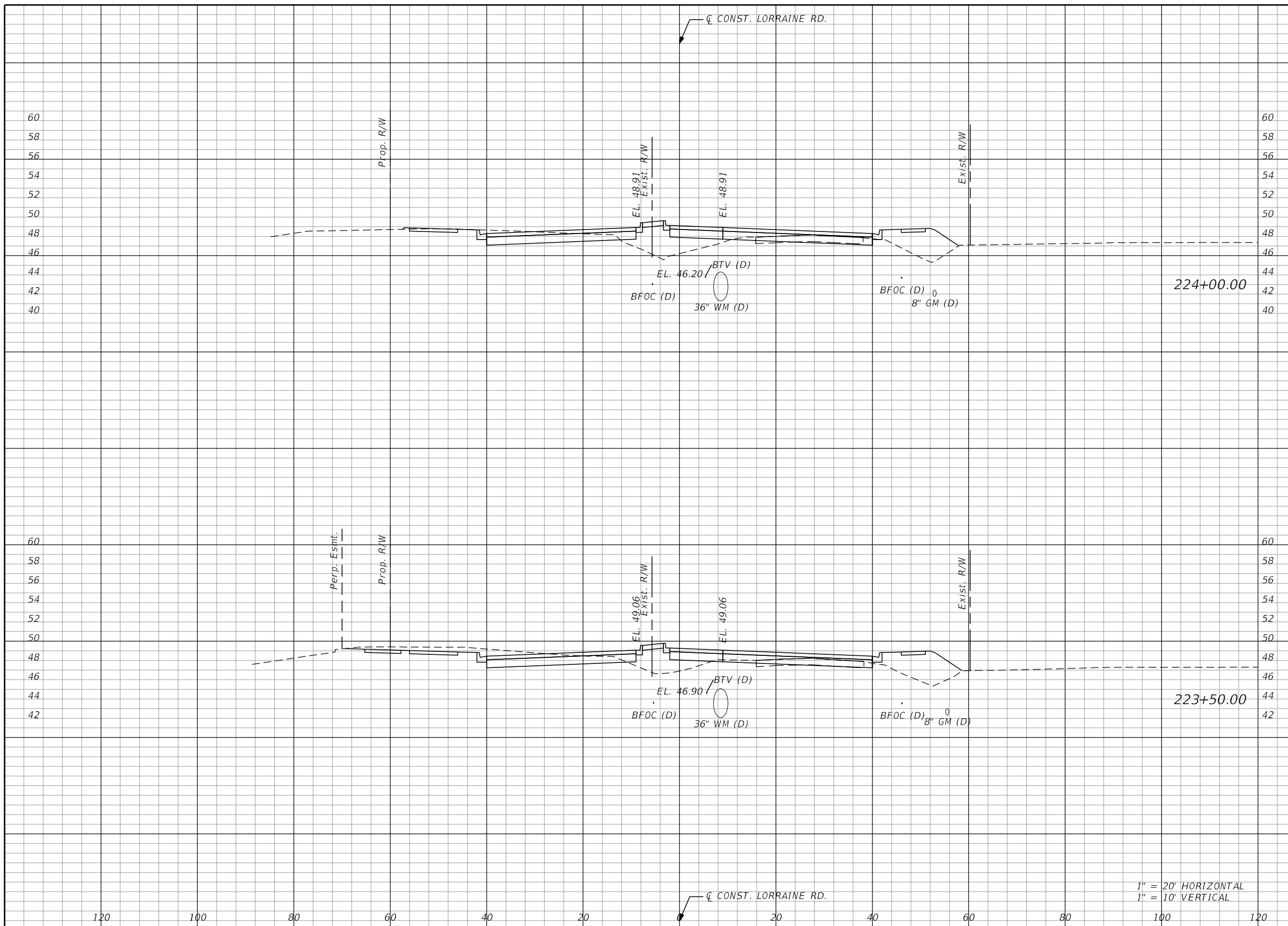
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		CROSS SECTIONS SHEET NO. 189
No.	REVISIONS		DATE	BY		1" = 20' HORIZONTAL 1" = 10' VERTICAL		

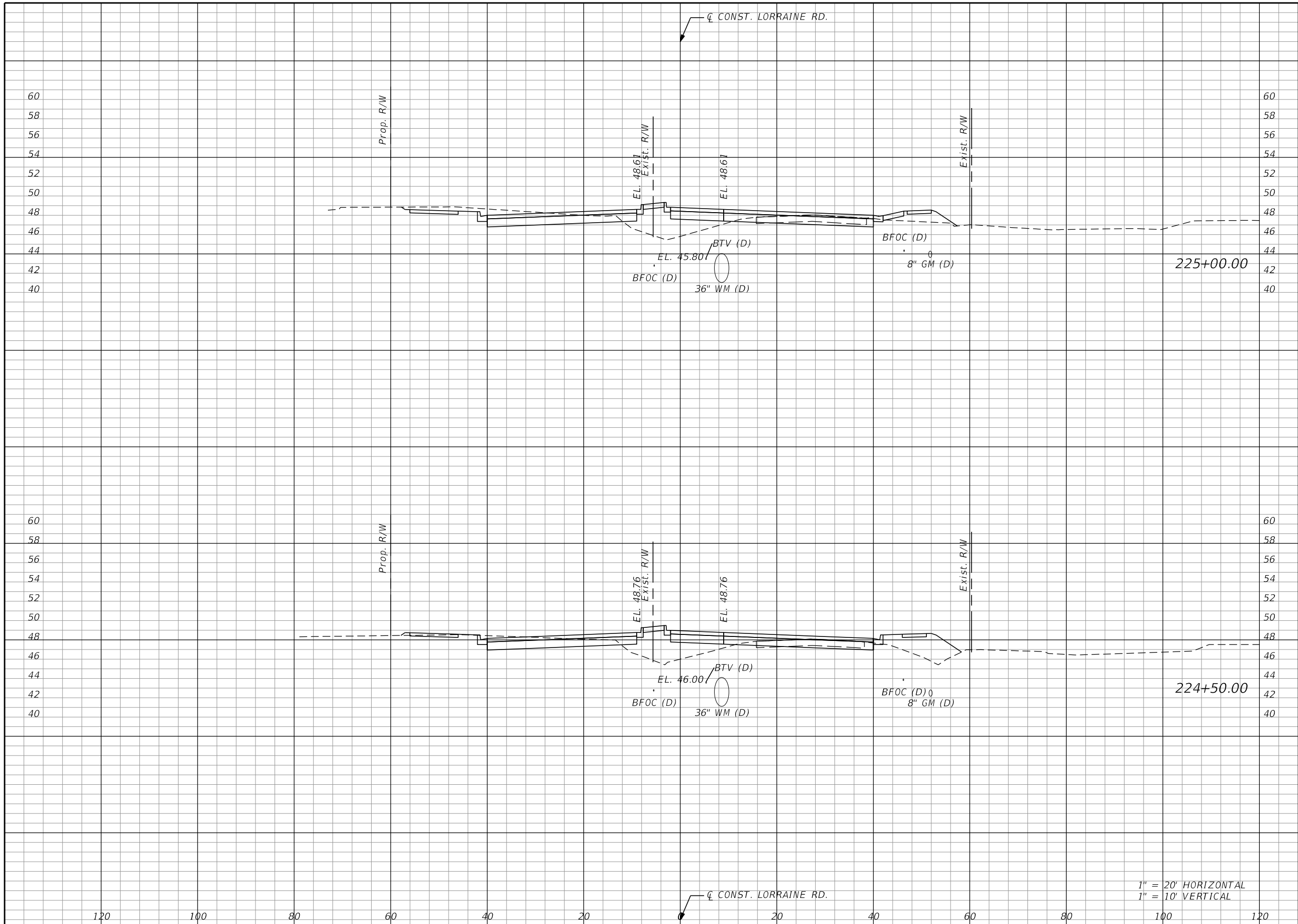
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 190
No.	REVISIONS		DATE		BY		PROJECT NO. 6107660

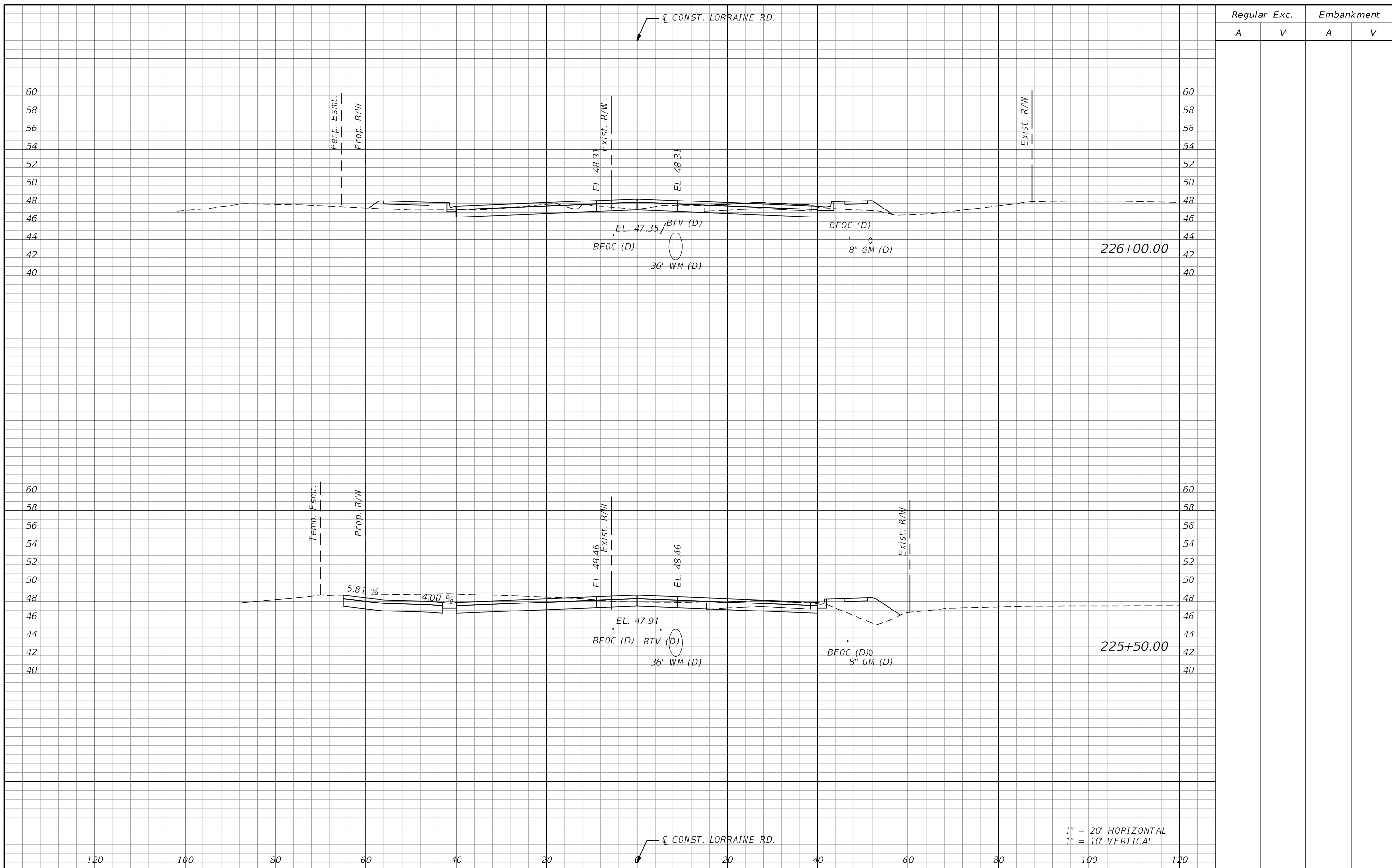
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 191
PROJECT NO. 6107660	11/30/2022 3:22:53 PM Rdxsrd_shg		pw:\pwhruseas01\HDR_US_East_01\Documents\3658\10345615\6.0_CAD_BIM\6.2_WIP\12345678910\roadway\RDxSRD02.dgn				

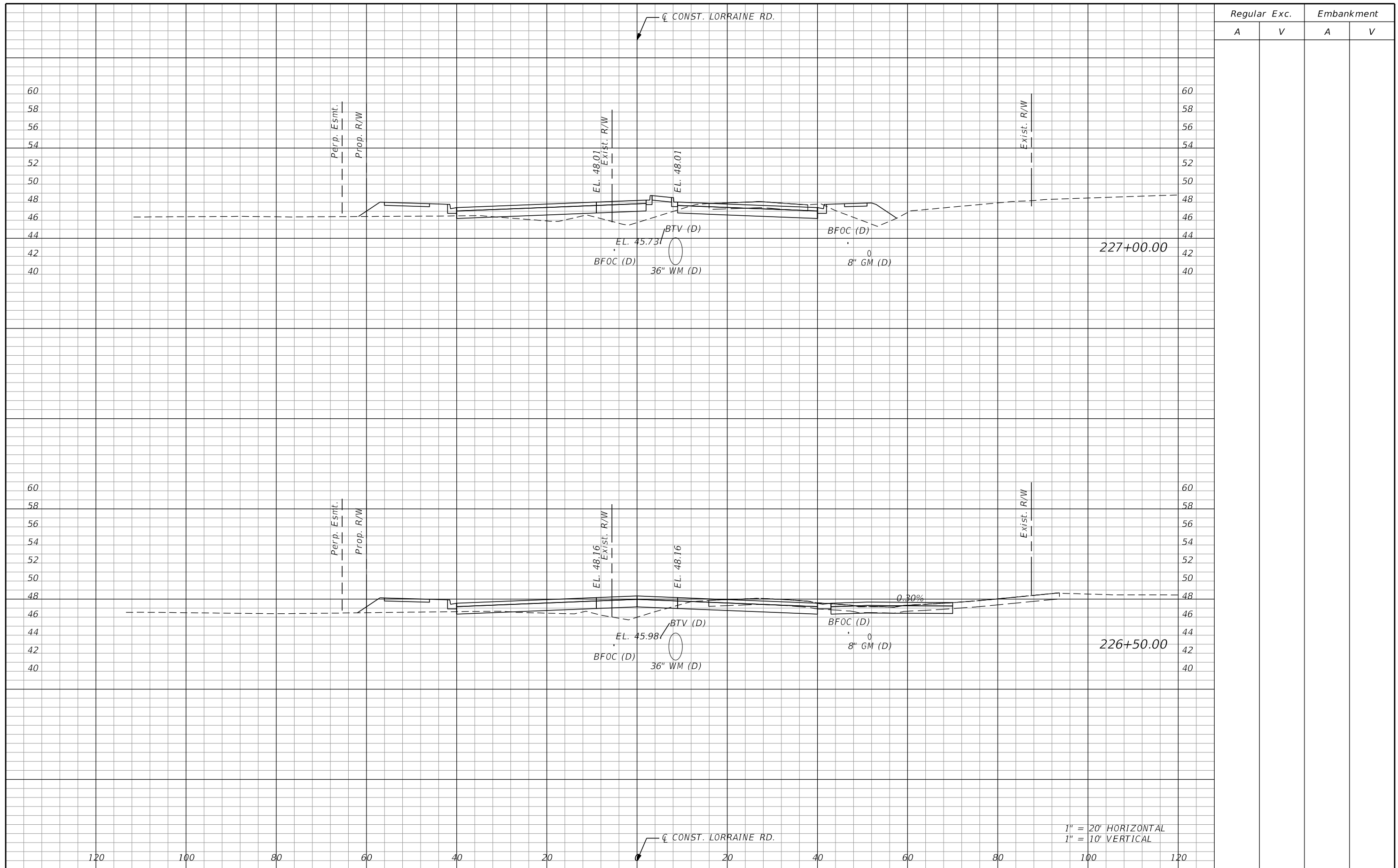
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 192
No. REVISIONS DATE BY			PROJECT NO. 6107660		1" = 20' HORIZONTAL 1" = 10' VERTICAL		

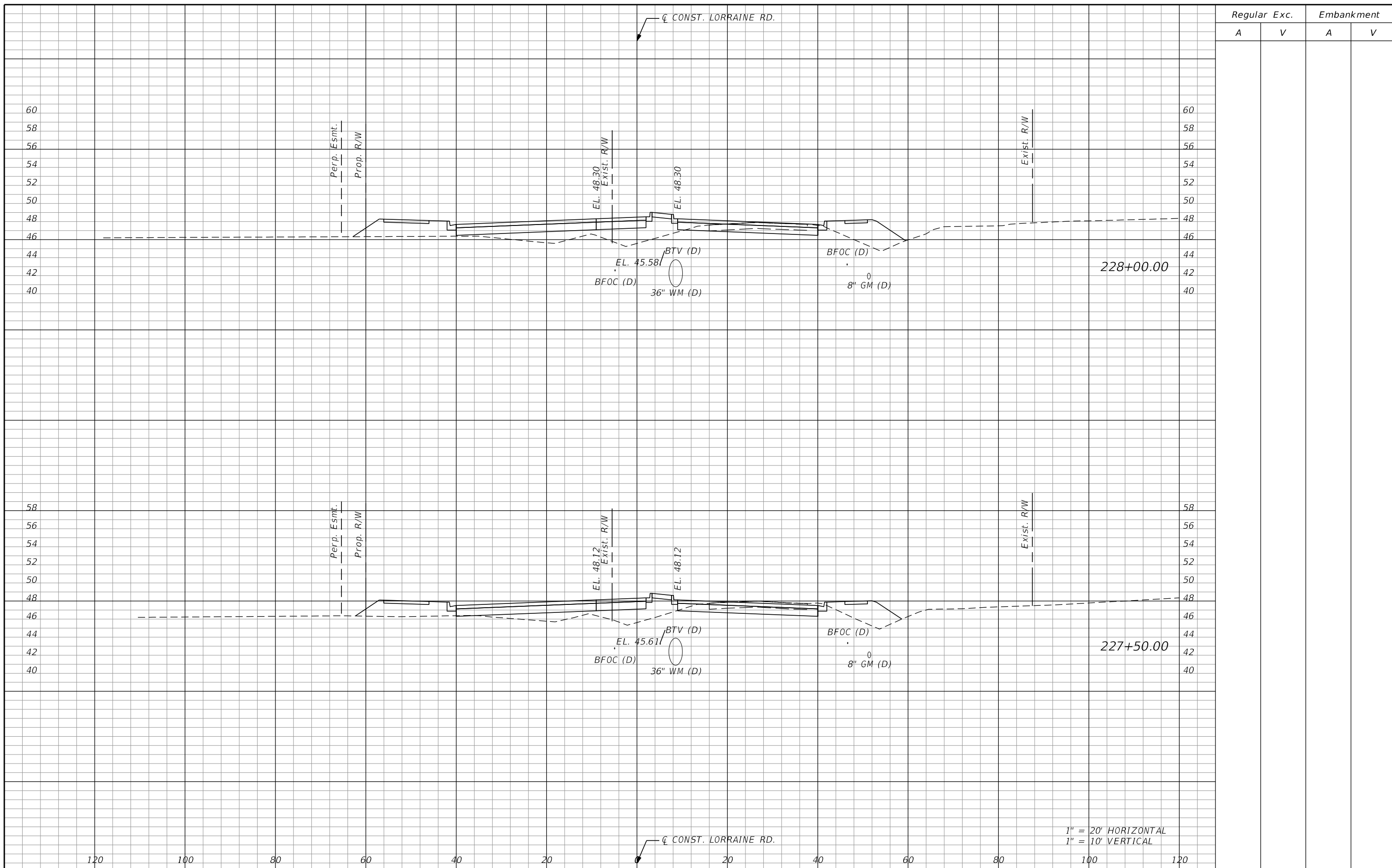
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

No.	REVISIONS	DATE	BY	SCALE	AS NOTED	DATE	11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 193
				DESIGNED BY	BLZ						
				DRAWN BY	JMA	HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609					
				CHECKED BY	JLS	11/30/2022 3:23:02 PM Rdxsrd_shg		pw:\pwhdruseas01\HDR_US_East_01\Documents\3658\10345615\6.0_CAD_BIM\6.2_WIP\12345678910\roadway\RDxSRD02.dgn			

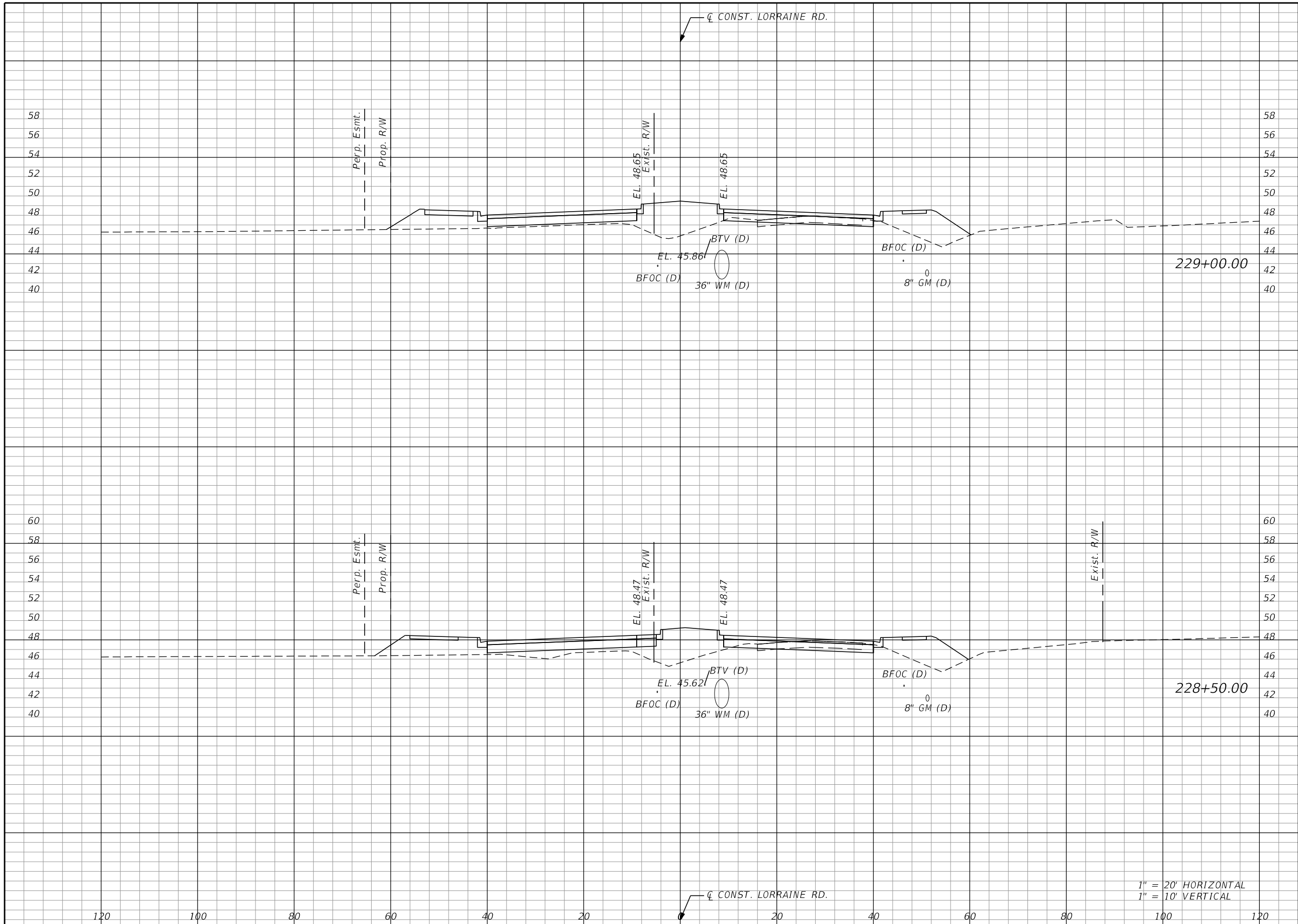
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





Regular		Exc.		Embankment	
A	V	A	V	A	V

No. _____ REVISIONS _____ DATE _____ BY _____	SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS	HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6107660	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	<h2 style="margin: 0;">CROSS SECTIONS</h2>	SHEET NO. <h1 style="margin: 0;">194</h1>
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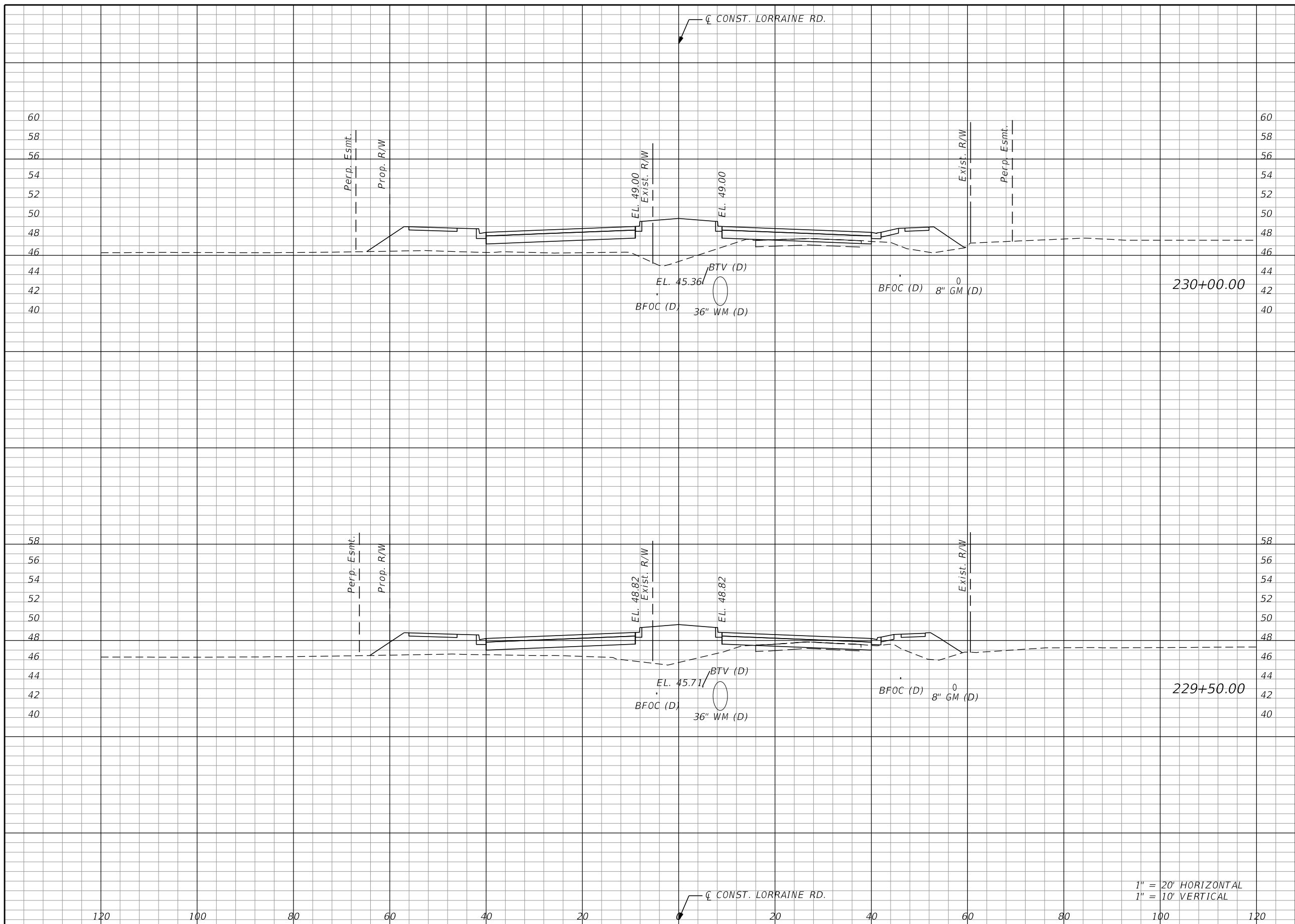
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 195
No.	REVISIONS		DATE		BY		PROJECT NO. 6107660

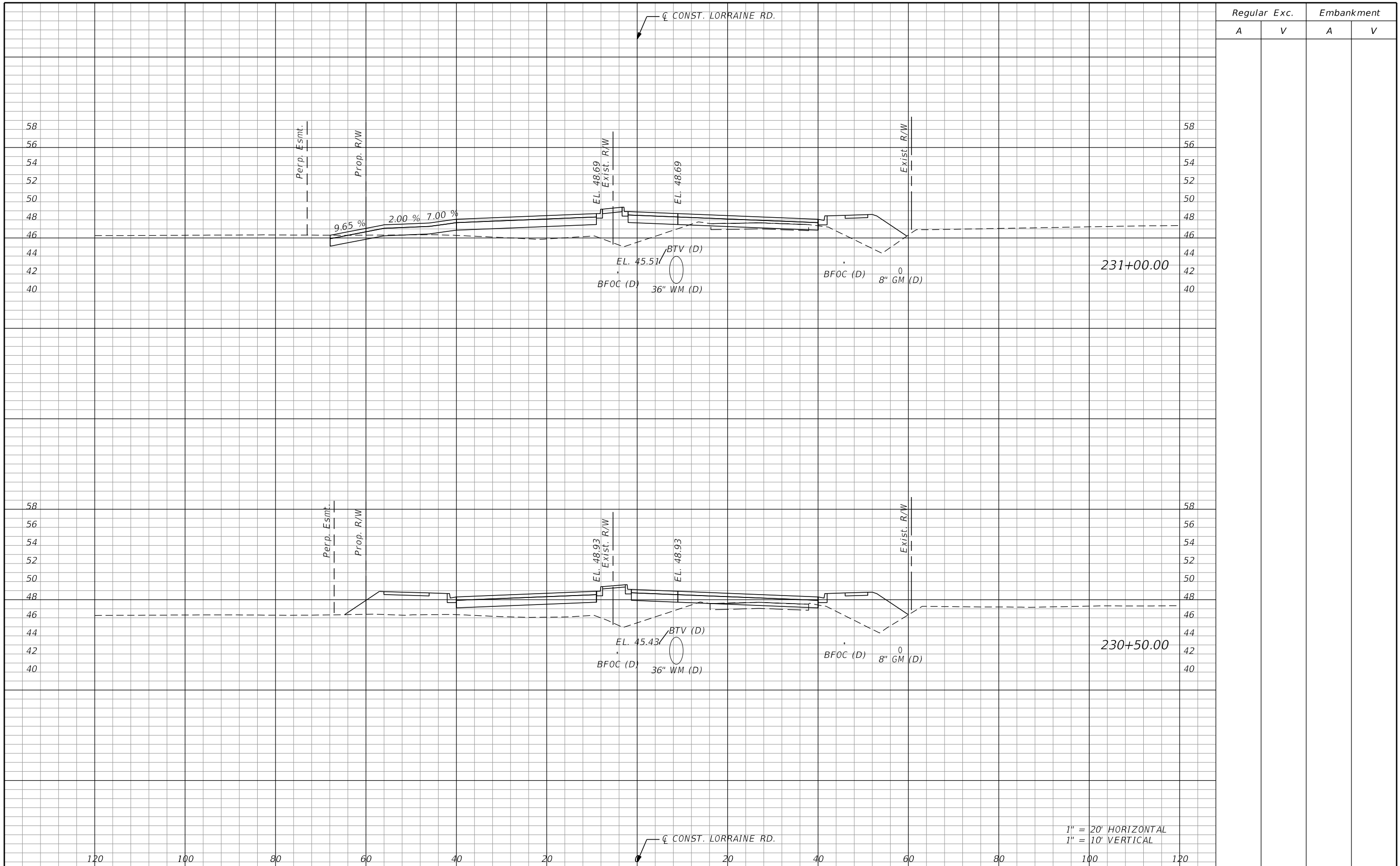
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 196
PROJECT NO. 6107660	11/30/2022 3:23:11 PM Rdxsrd_shg		pw:\pwhdrowseas01\HDR_US_East_01\Documents\3658\10345615\6.0_CAD_BIM\6.2_WIP\12345678910\roadway\RDxSRD02.dgn				

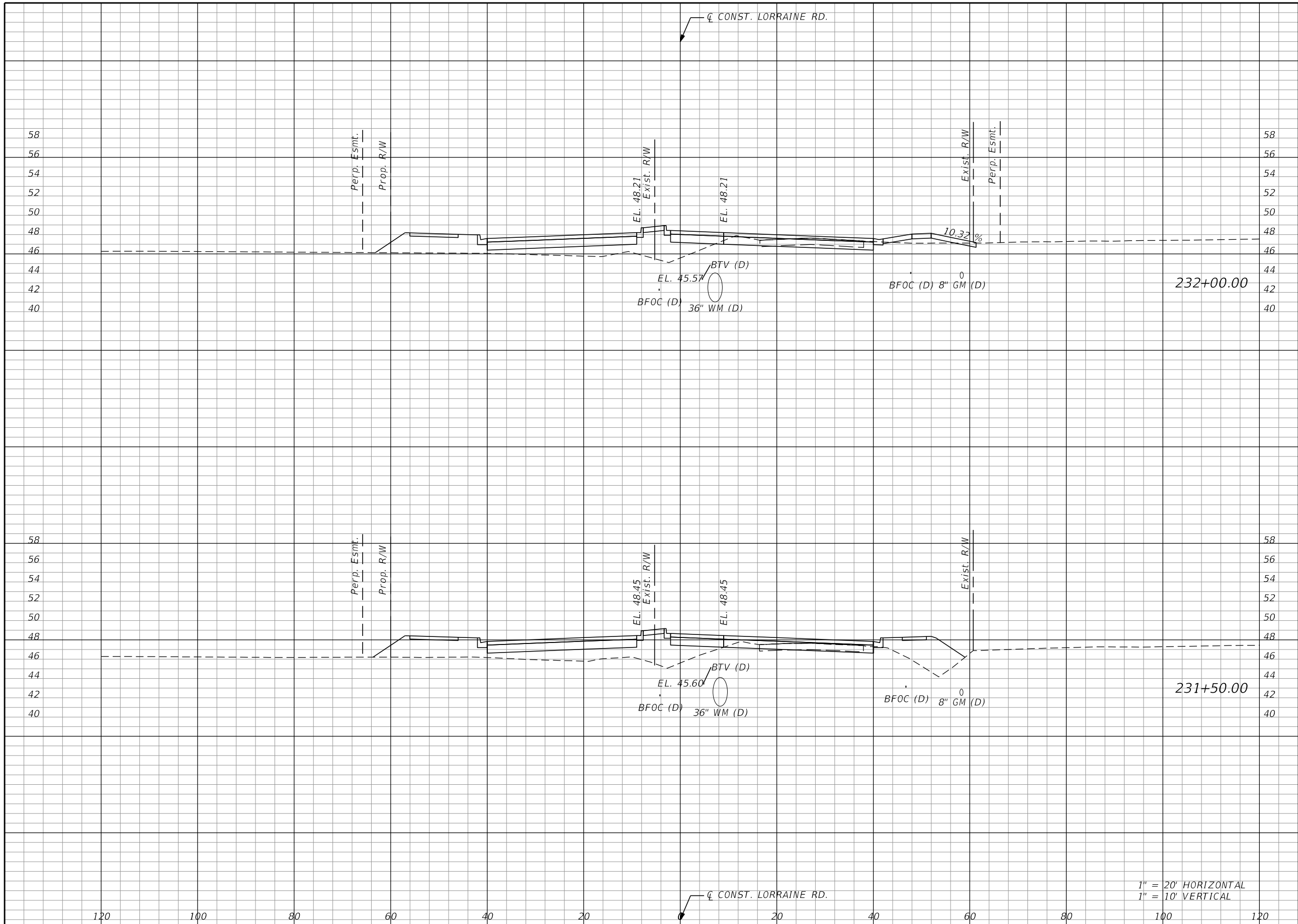
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS				HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609				DATE 11/2022 PROJECT NO. 6107660				MANATEE COUNTY PUBLIC WORKS				DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557				CROSS SECTIONS				SHEET NO. 197	
No.	REVISIONS			DATE	BY	11/30/2022 3:23:14 PM Rdxsrd_shg		pw:\pwhduseas01\HDR_US_East_01\Documents\3658\10345615\6.0_CAD_BIM\6.2_WIP\12345678910\roadway\RDXSRD02.dgn																	

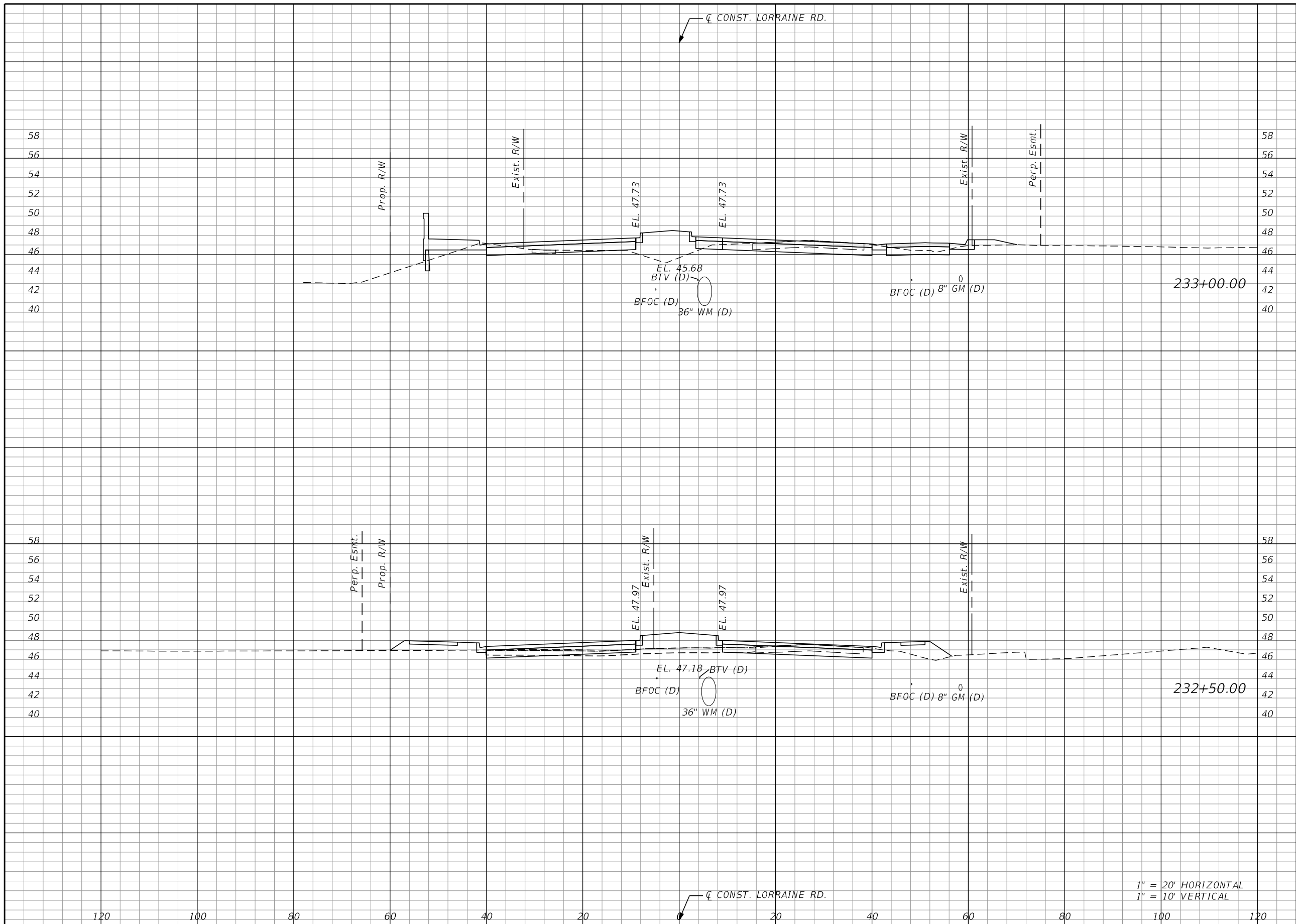
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6107660	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 198
No. REVISIONS DATE BY							

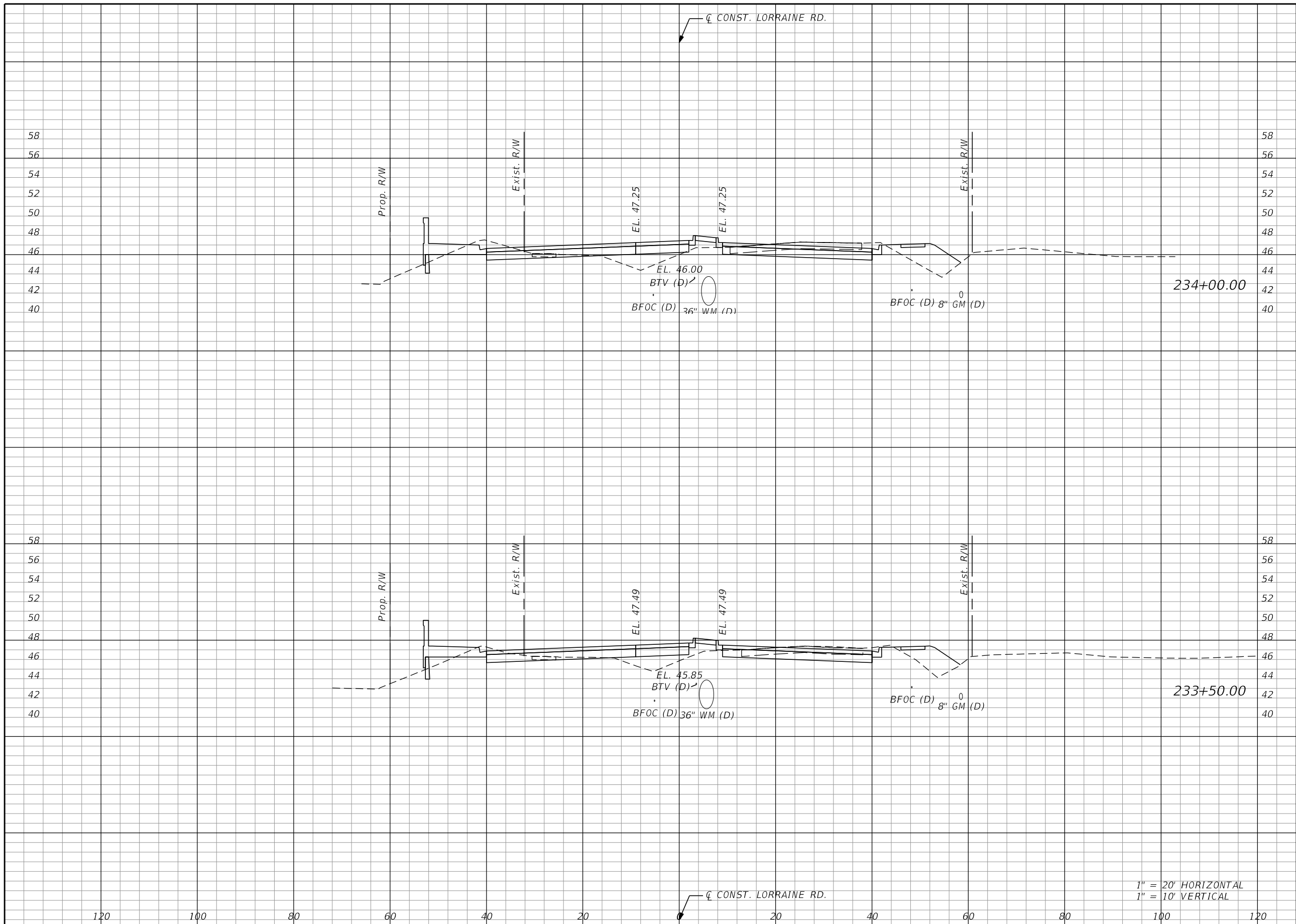
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		CROSS SECTIONS SHEET NO. 199
No.	REVISIONS		DATE	BY		1" = 20' HORIZONTAL 1" = 10' VERTICAL		

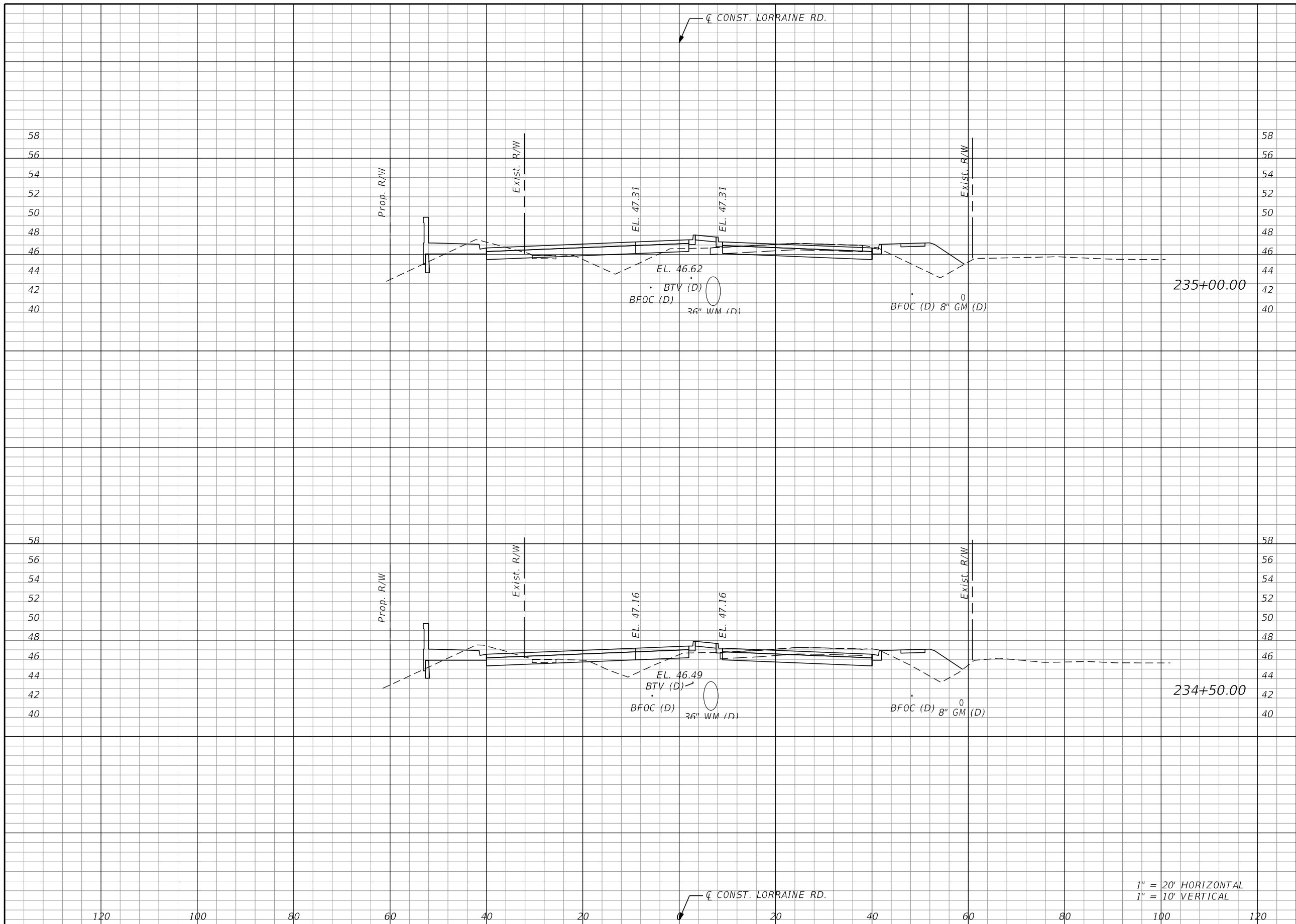
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 200
PROJECT NO. 6107660	11/30/2022 3:23:20 PM Rdxsrd_shg		pw:\pwhdruseas01\HDR_US_East_01\Documents\3658\10345615\6.0_CAD_BIM\6.2_WIP\12345678910\roadway\RDXSRD02.dgn				

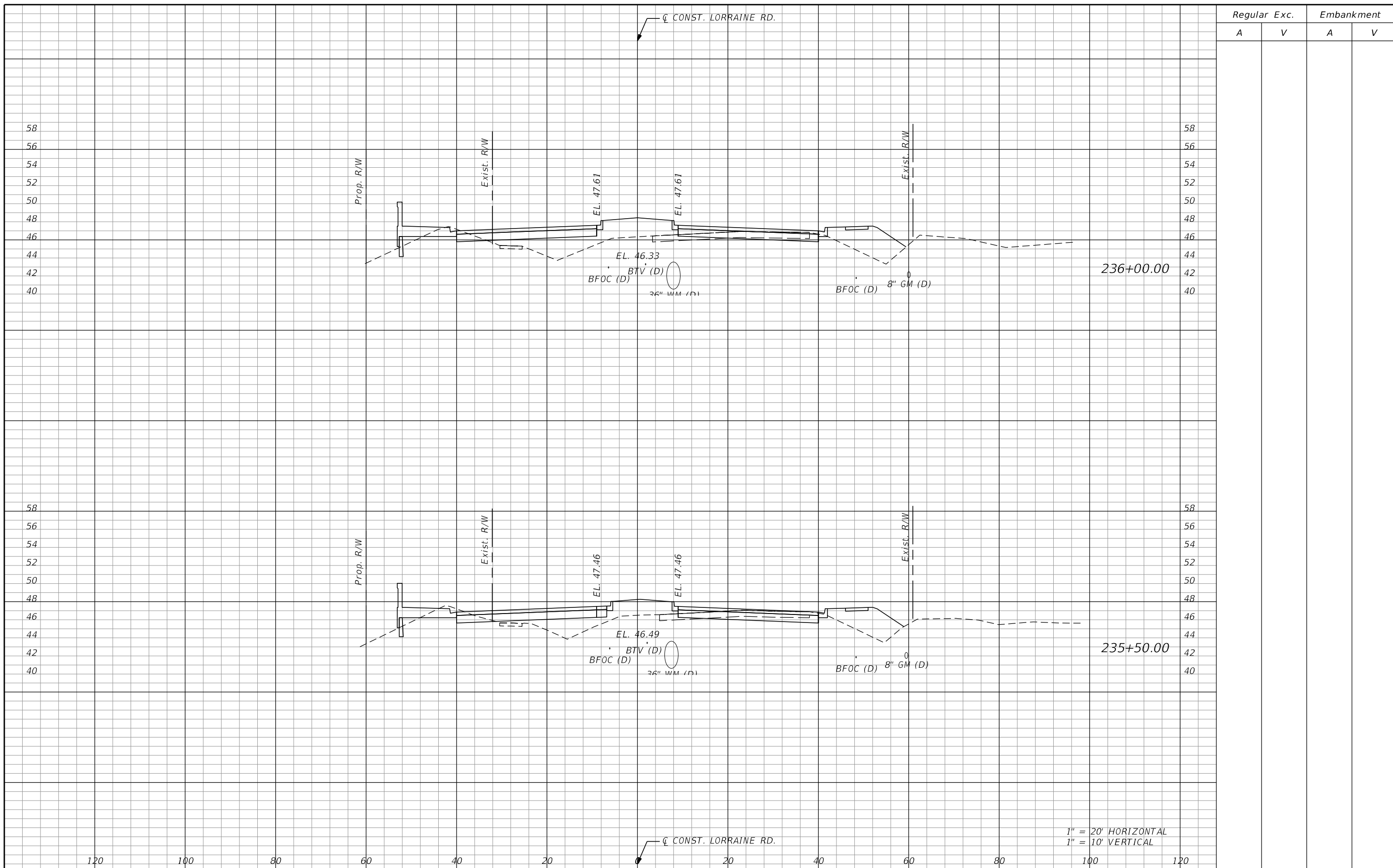
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 201
PROJECT NO. 6107660	11/30/2022 3:23:22 PM Rdxsrd_shg		pw:\pwhduseas01\HDR_US_East_01\Documents\3658\10345615\6.0_CAD_BIM\6.2_WIP\12345678910\roadway\RDxSRD02.dgn				

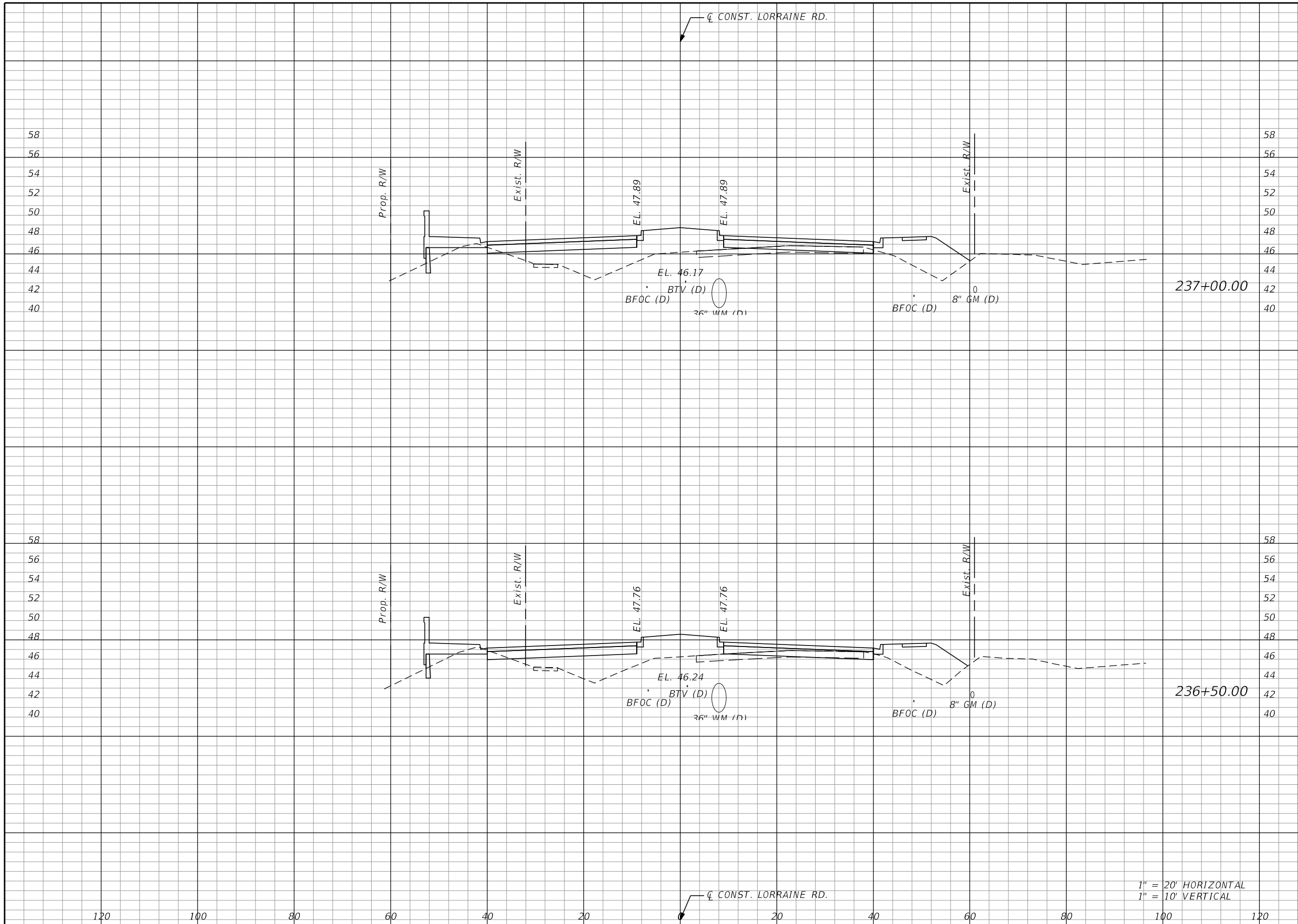
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 202
No.	REVISIONS		DATE		BY		PROJECT NO. 6107660

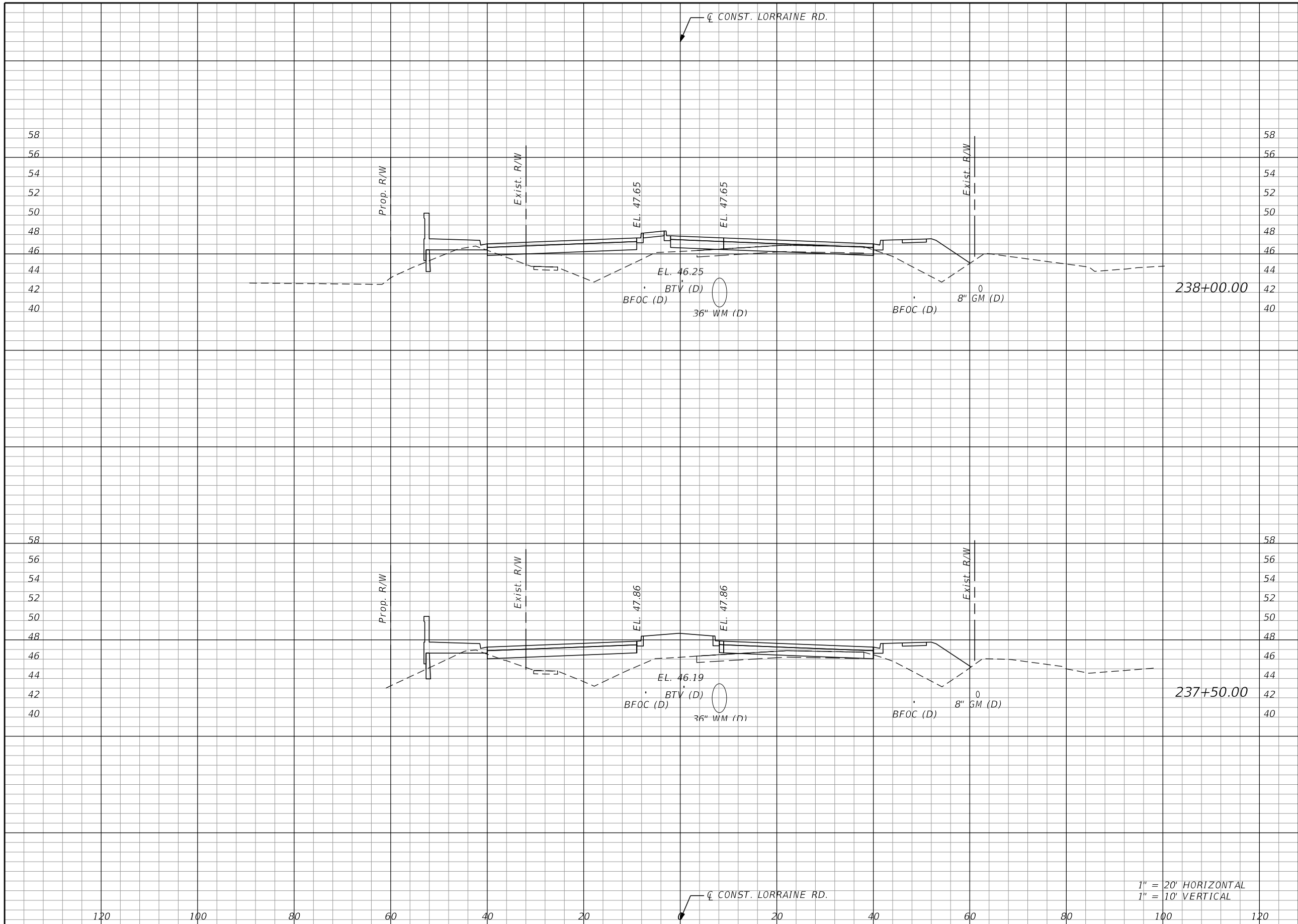
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 203
No. REVISIONS DATE BY			PROJECT NO. 6107660		1" = 20' HORIZONTAL 1" = 10' VERTICAL		

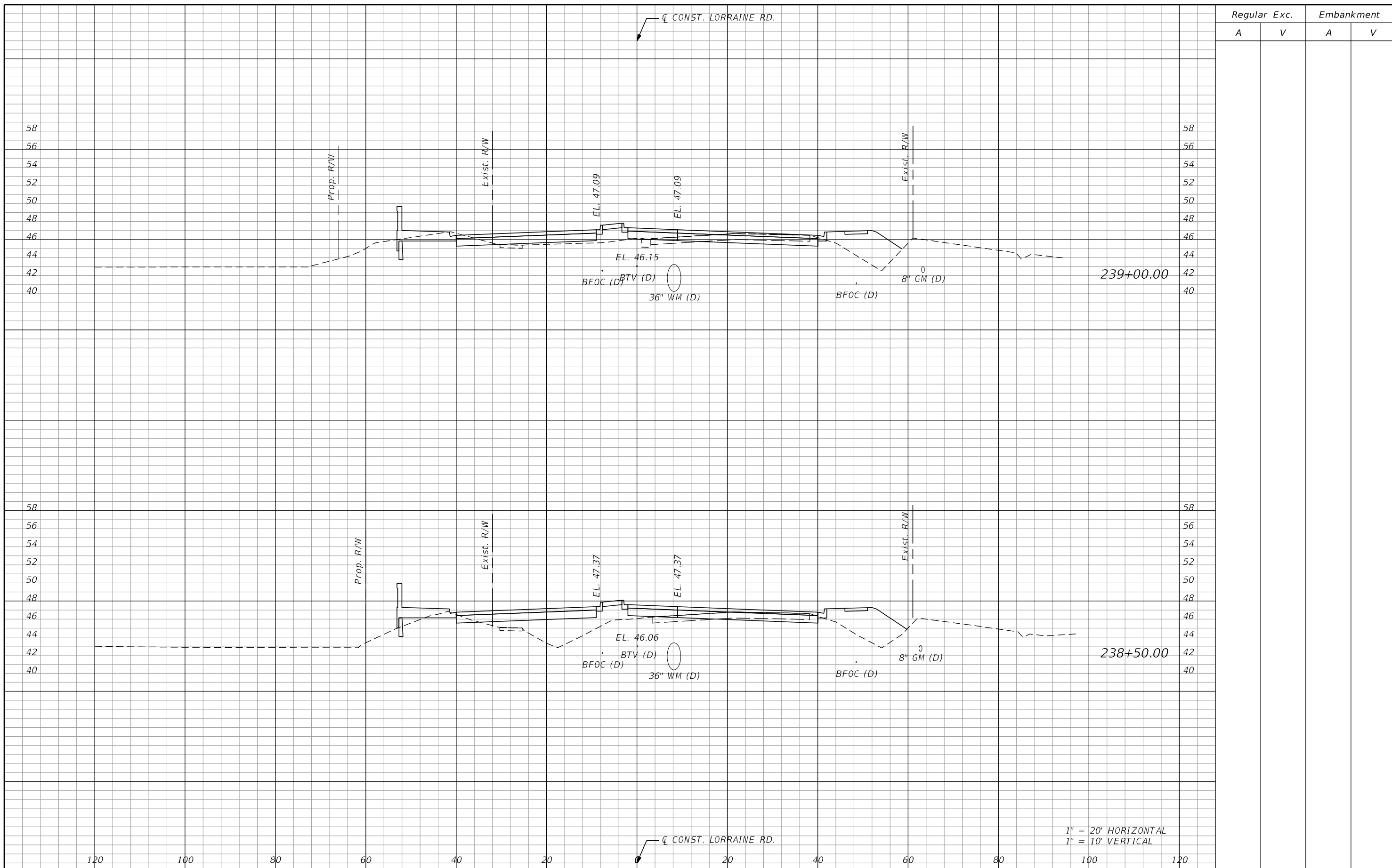
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6107660	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS SHEET NO. 204
No.	REVISIONS		DATE		BY	

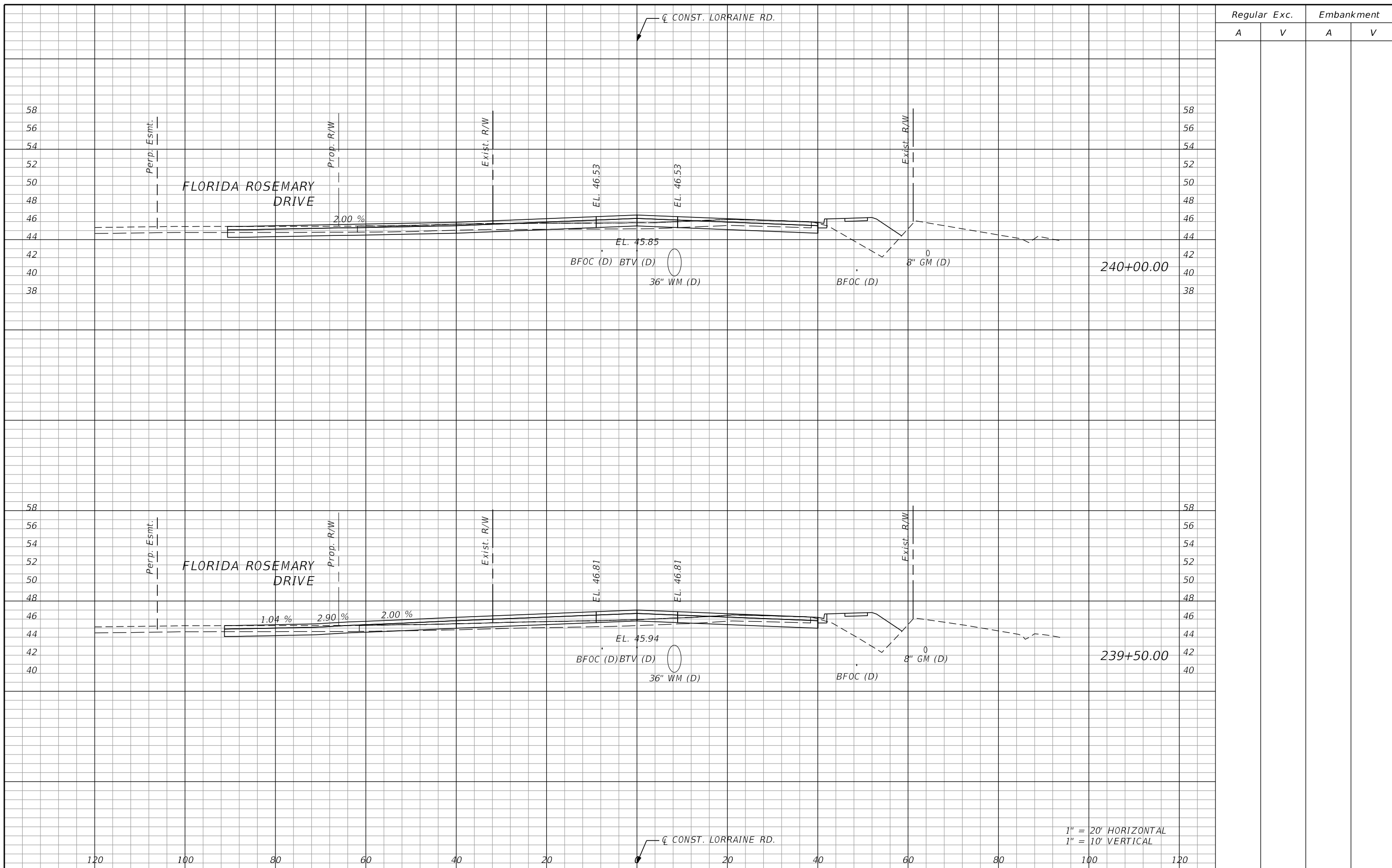
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6107660	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 205
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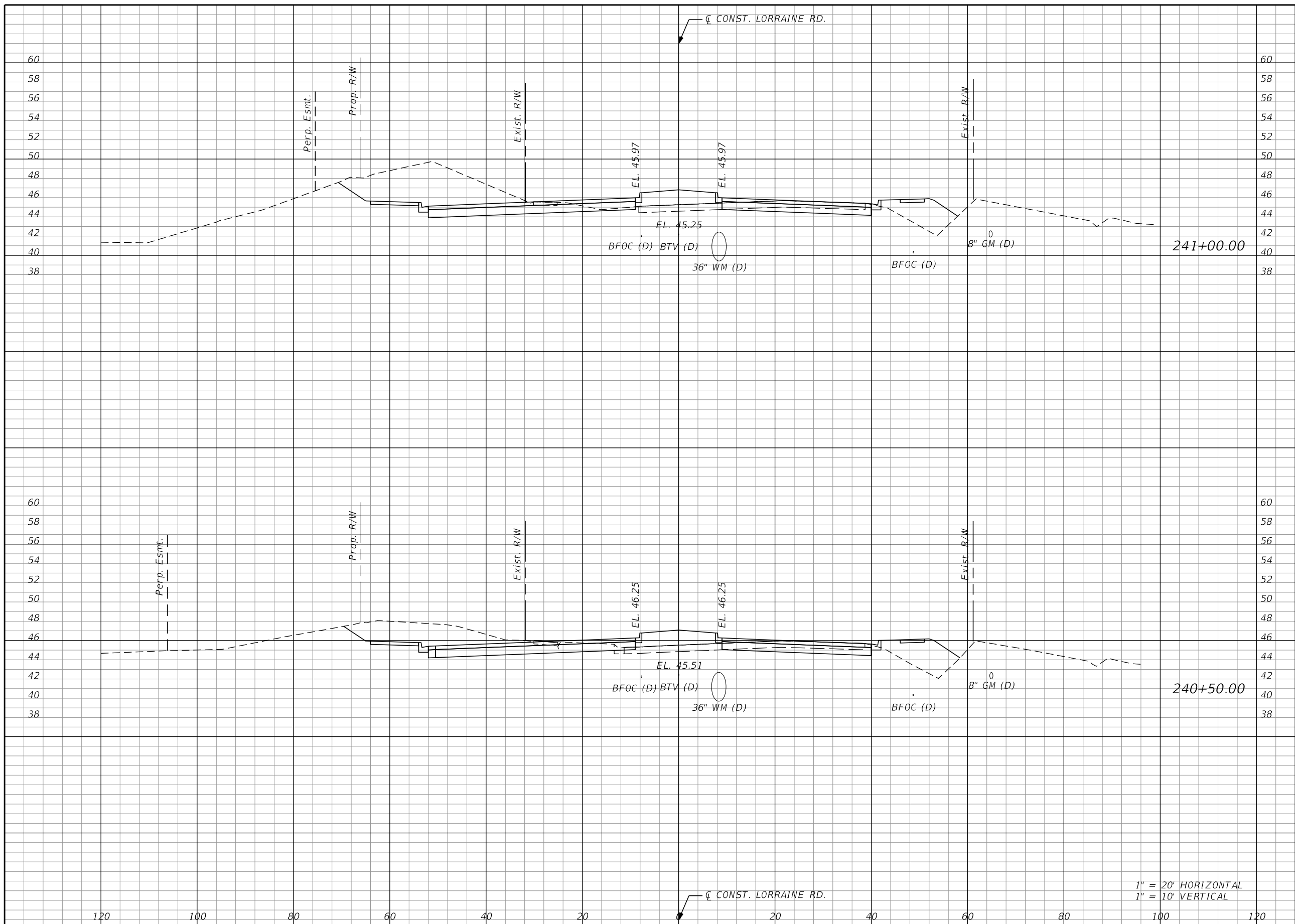
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 206
No. REVISIONS DATE BY			PROJECT NO. 6107660		1" = 20' HORIZONTAL 1" = 10' VERTICAL		

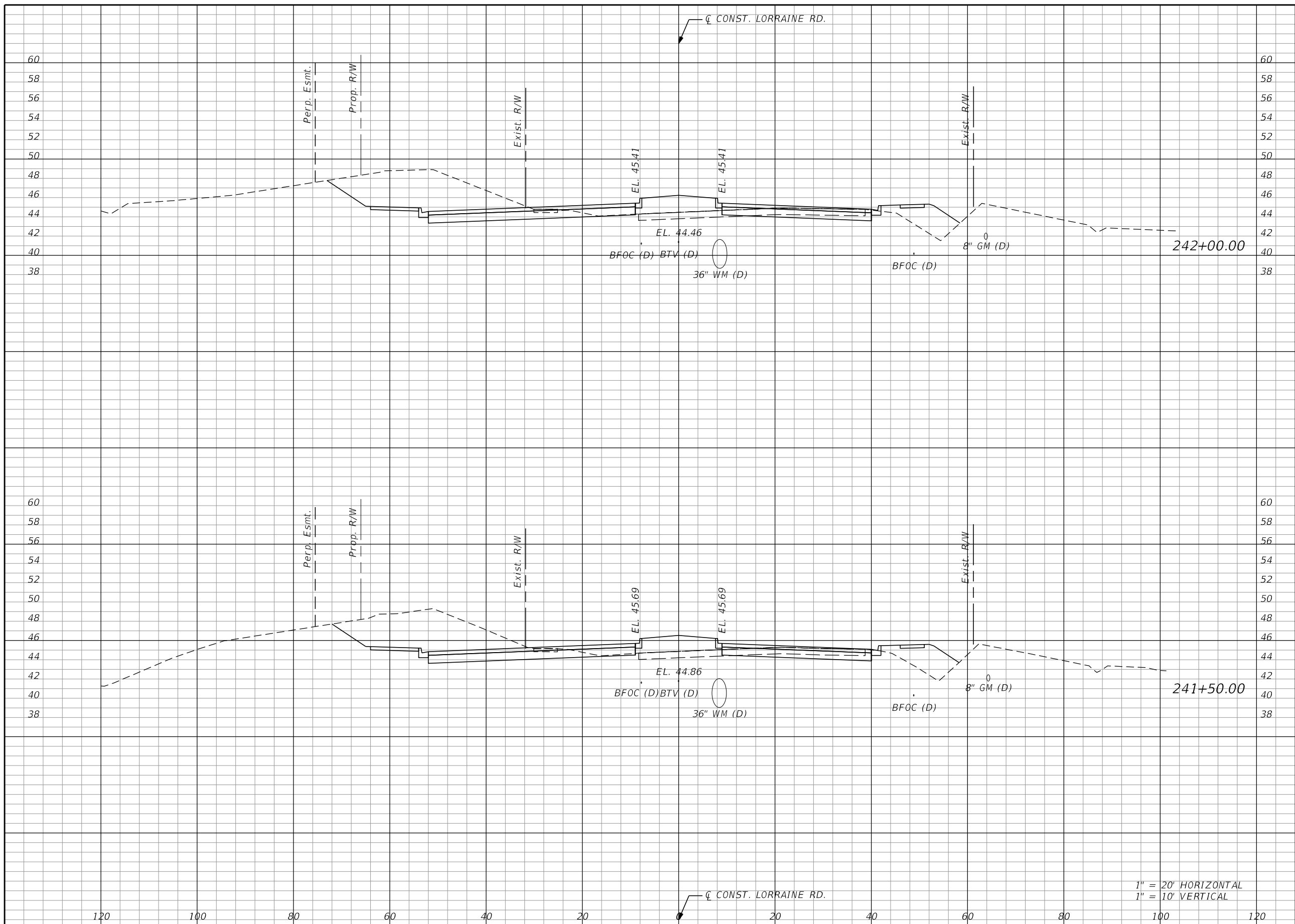
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 207
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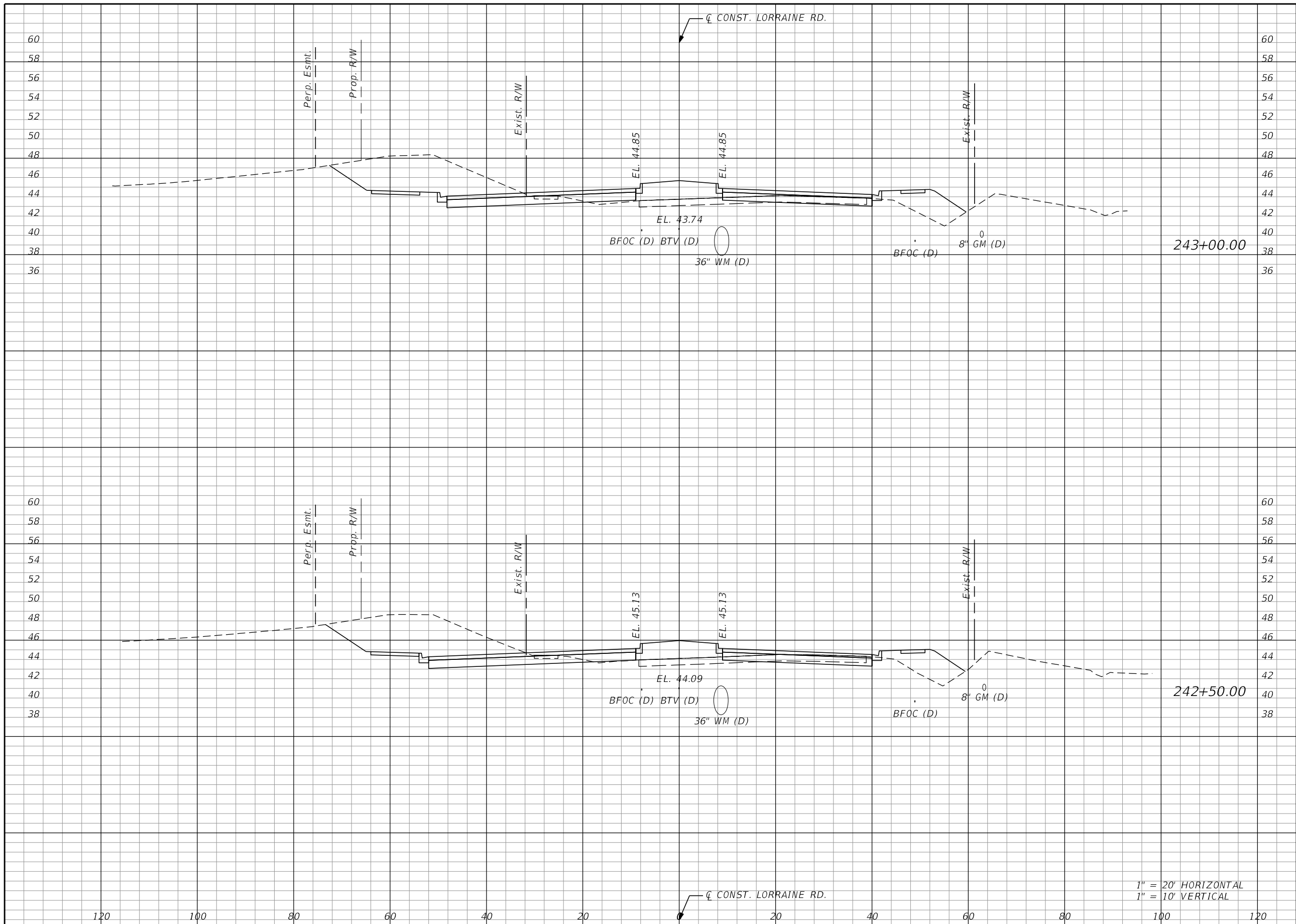
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 208
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE 11/2022
 PROJECT NO. 6107660



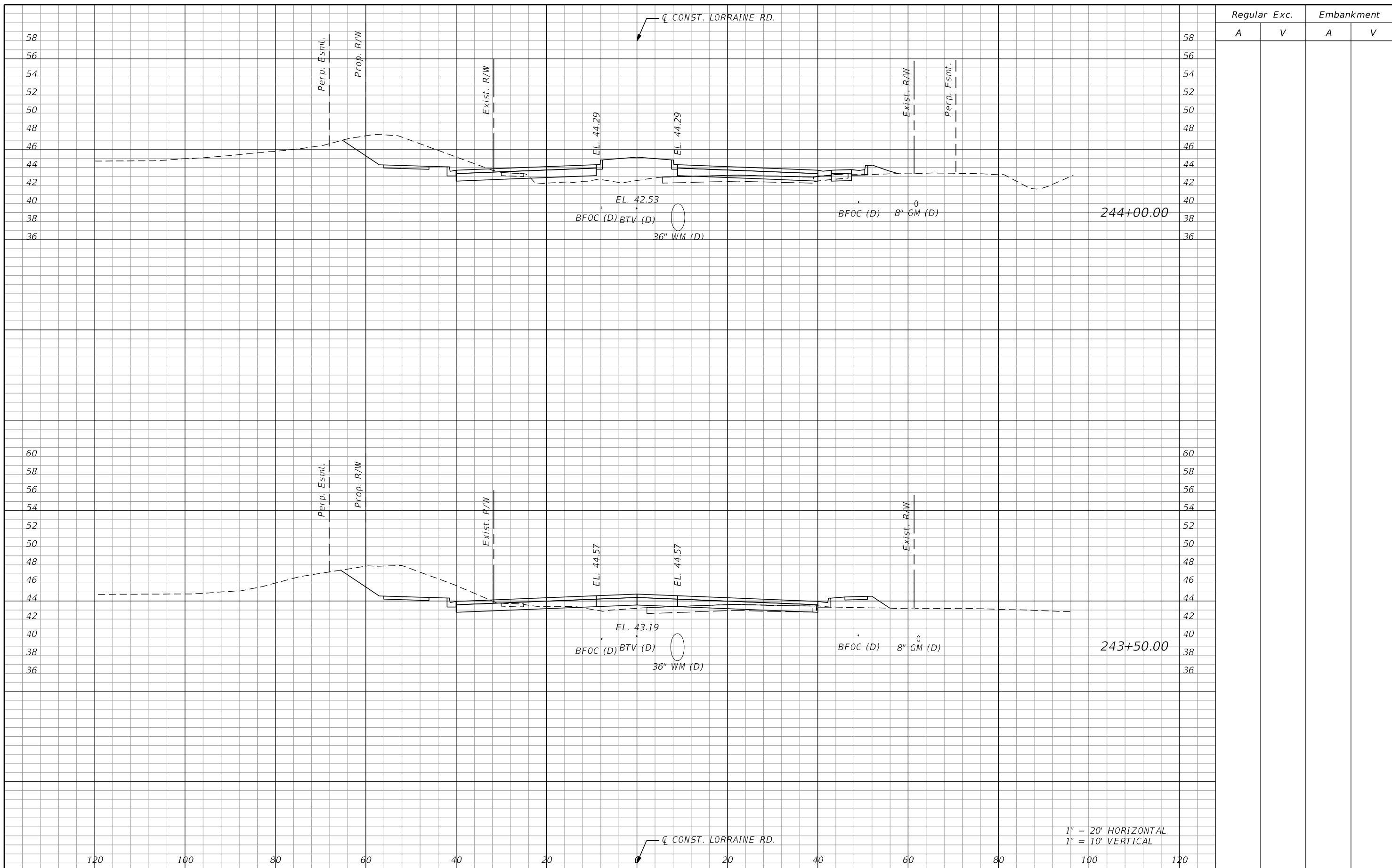
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
BRIAN L. ZIMMERMAN
FL. LICENSE NO. 78557

CROSS SECTIONS

SHEET NO.
209

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



1" = 20' HORIZONTAL
1" = 10' VERTICAL

Regular		Exc.		Embankment	
A	V	A	V	A	V

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE 11/2022
 PROJECT NO. 6107660

Manatee County
 FLORIDA

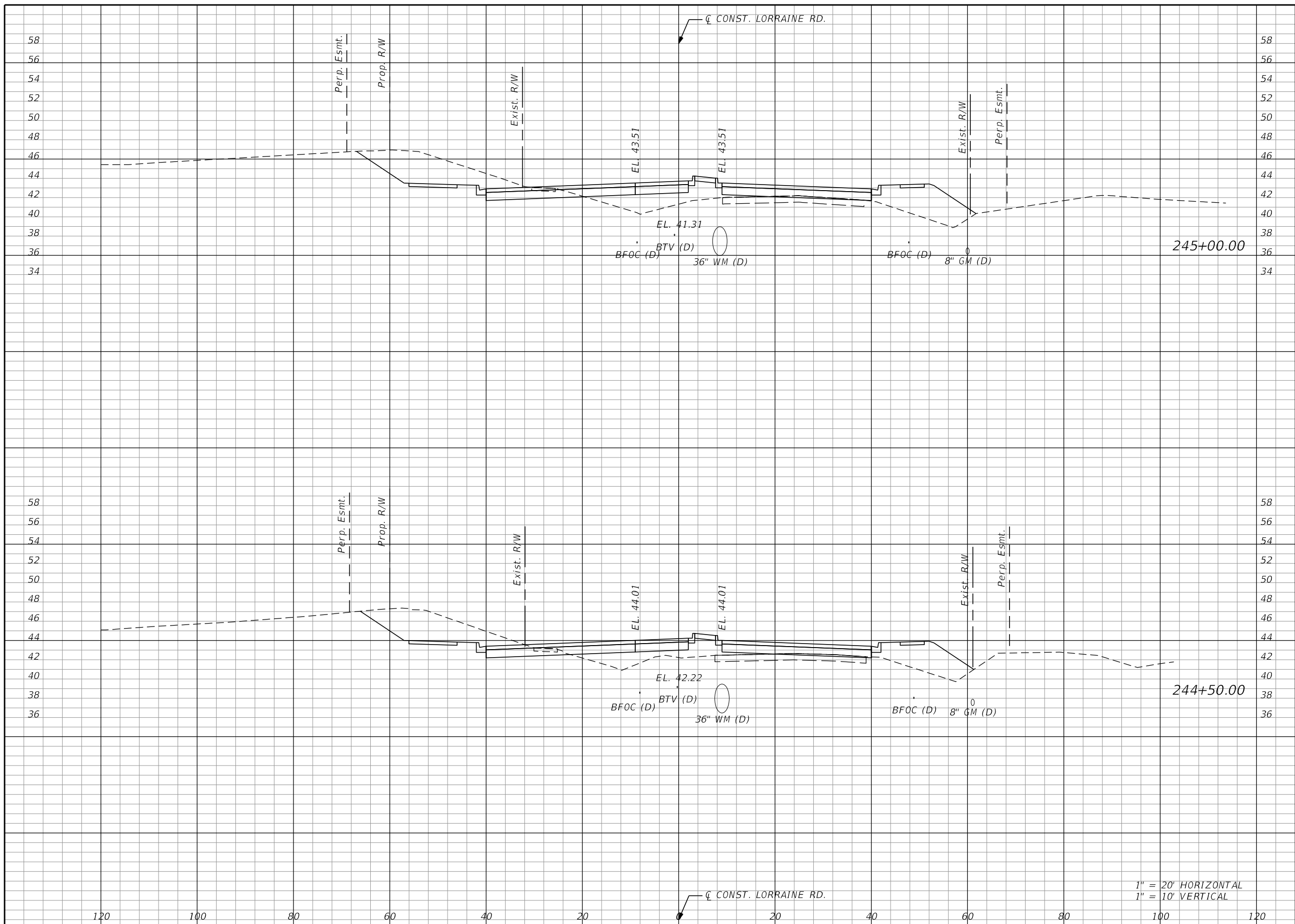
MANATEE COUNTY
 PUBLIC WORKS

DESIGN ENGINEER
 BRIAN L. ZIMMERMAN
 FL. LICENSE NO. 78557



CROSS SECTIONS

SHEET NO.
 210

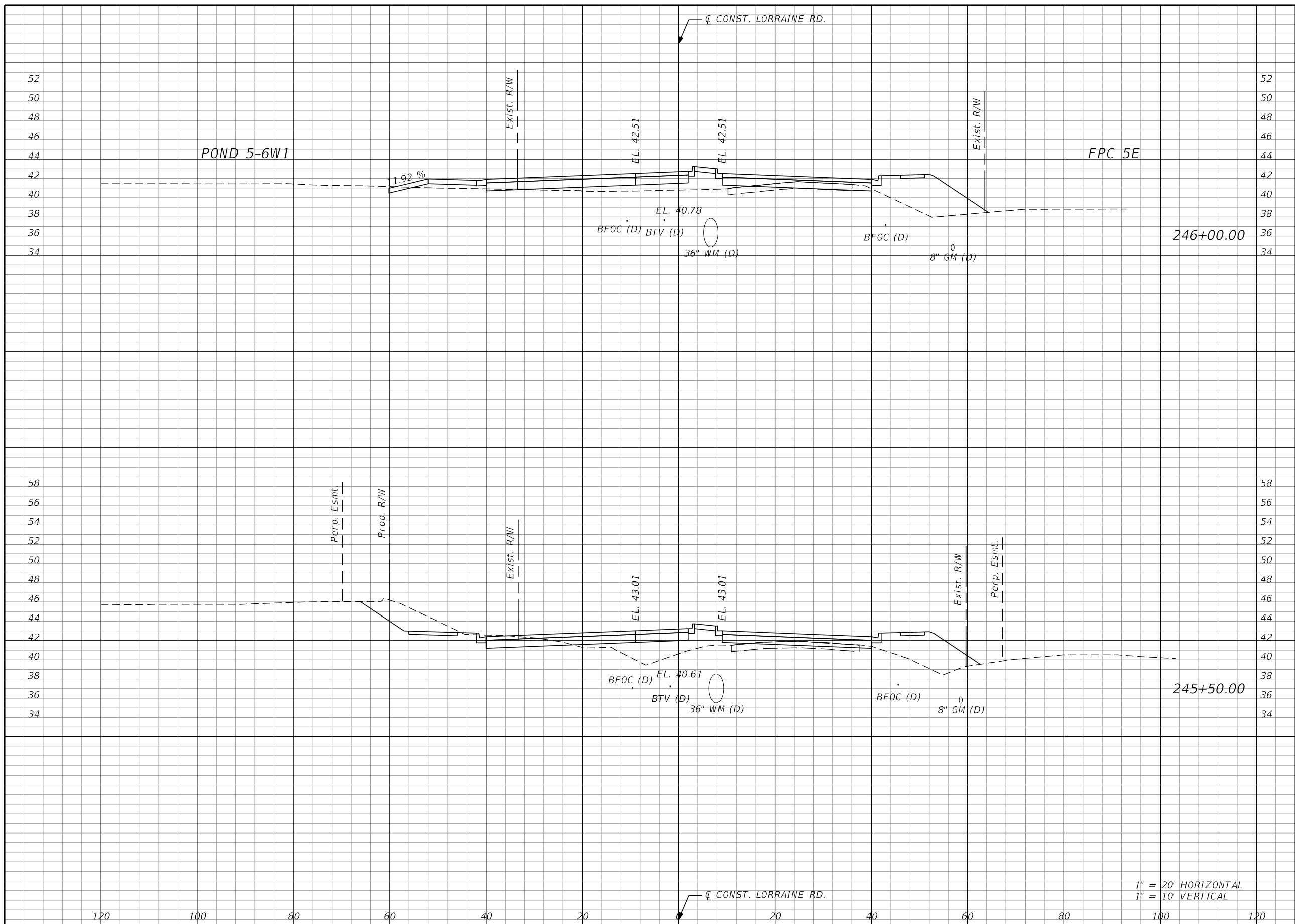
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 211
No.	REVISIONS		DATE		BY		PROJECT NO. 6107660

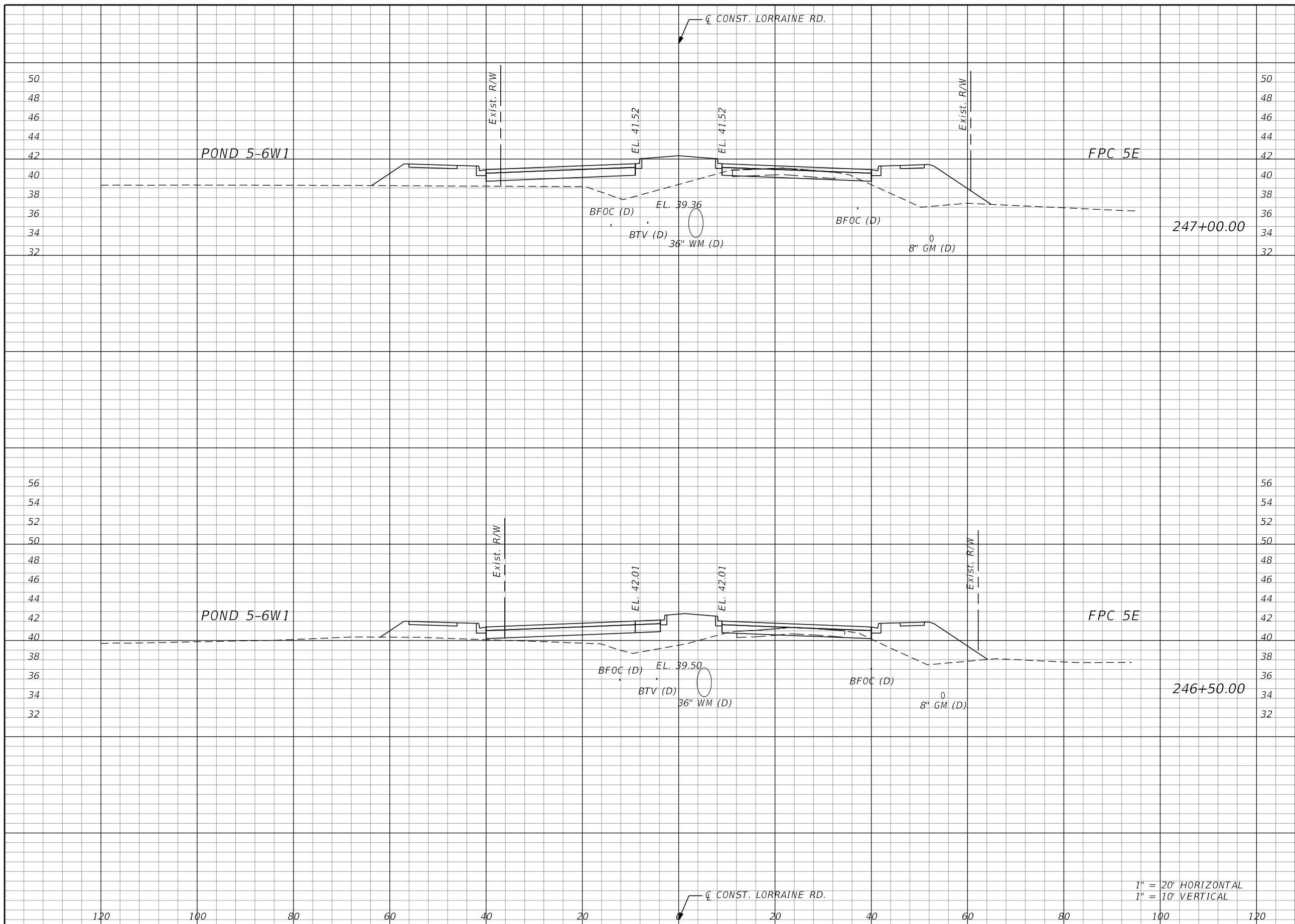
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 212
No. REVISIONS DATE BY			PROJECT NO. 6107660		1" = 20' HORIZONTAL 1" = 10' VERTICAL		

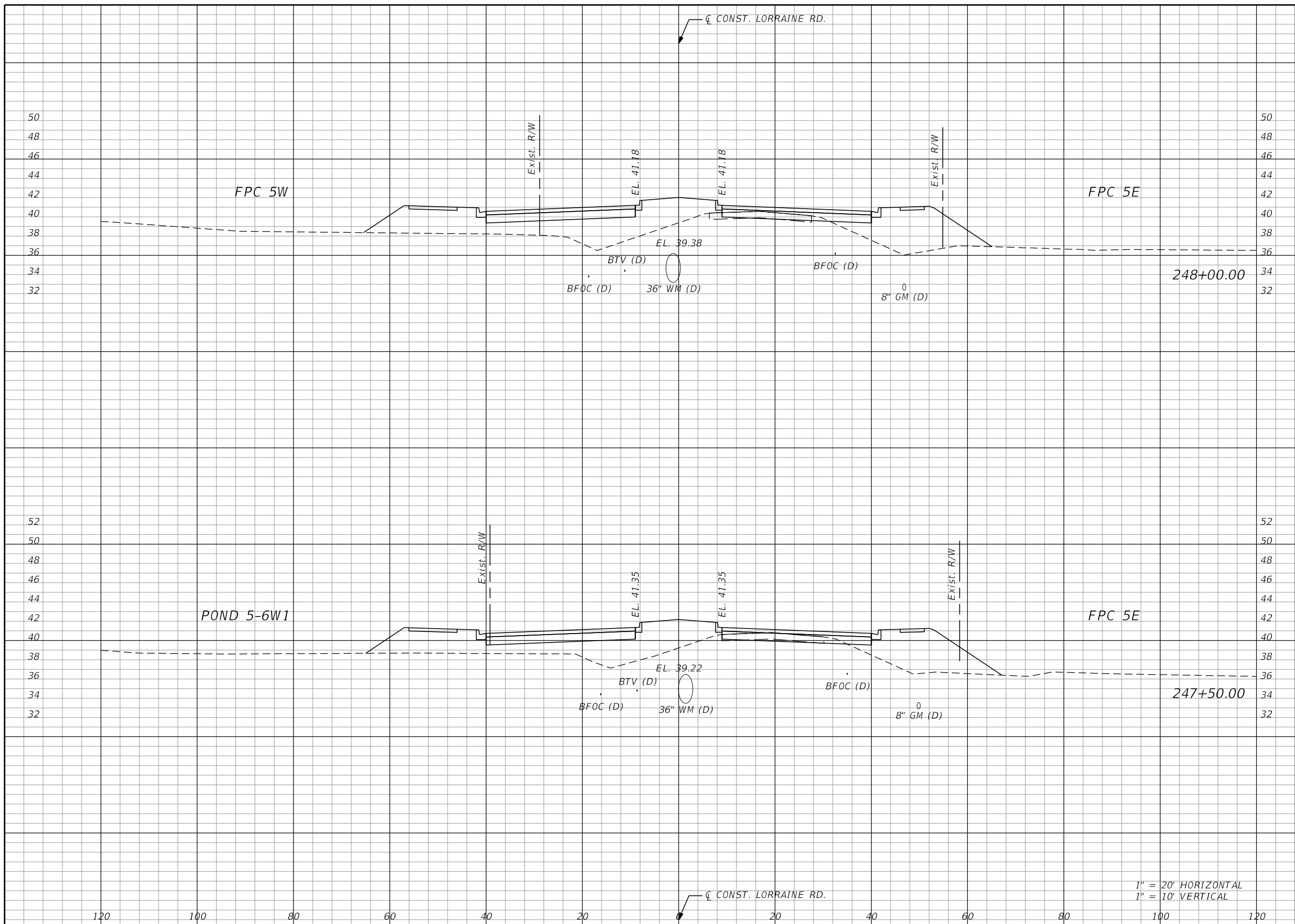
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	SHEET NO. 213
PROJECT NO. 6107660			CROSS SECTIONS			

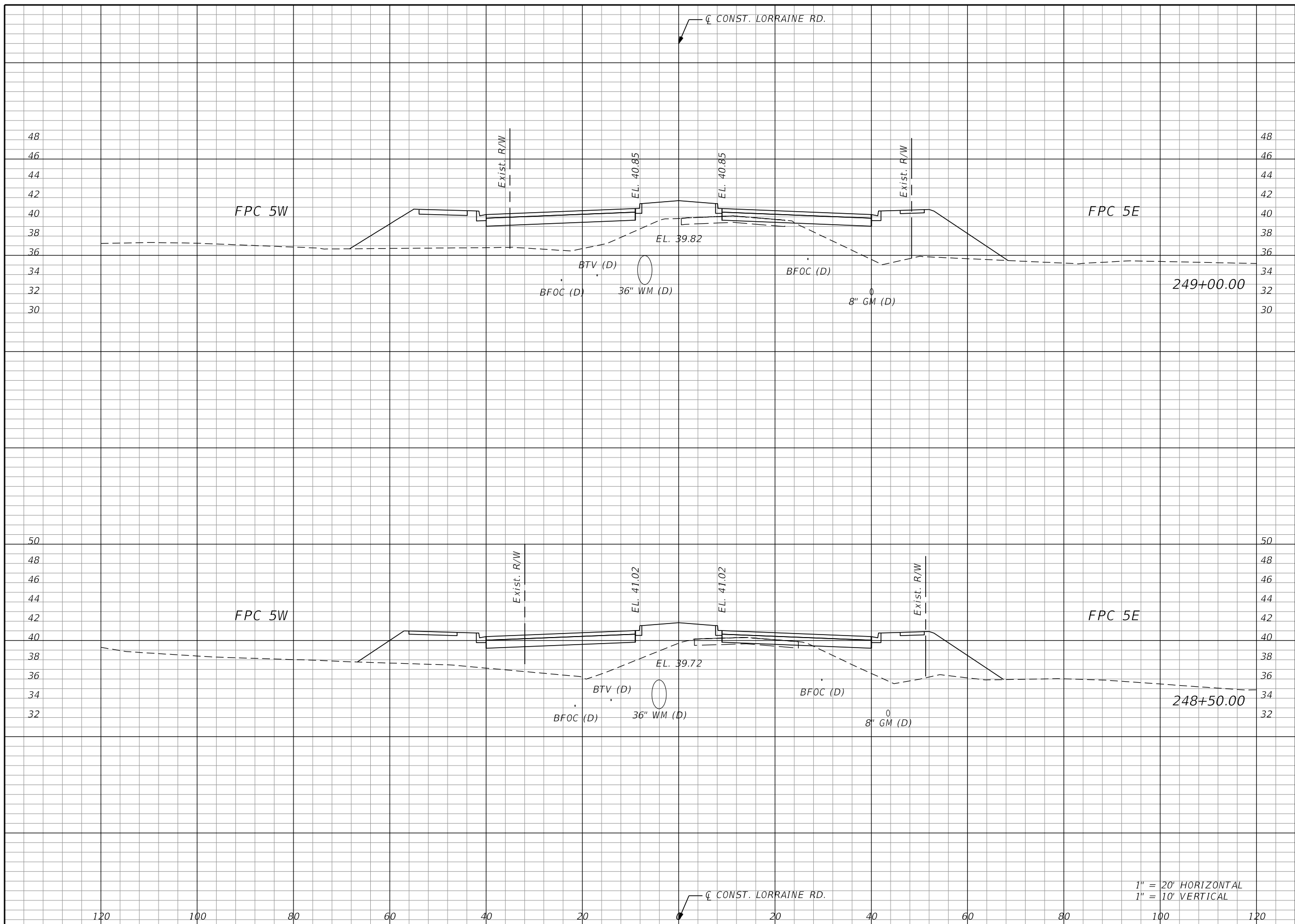
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 214
No. REVISIONS DATE BY	PROJECT NO. 6107660		11/30/2022 3:23:52 PM Rdxsrd_shg		pw:\pwhdruseas01\HDR_US_East_01\Documents\3658\10345615\6.0_CAD_BIM\6.2_WIP\12345678910\roadway\RDXSRD02.dgn		

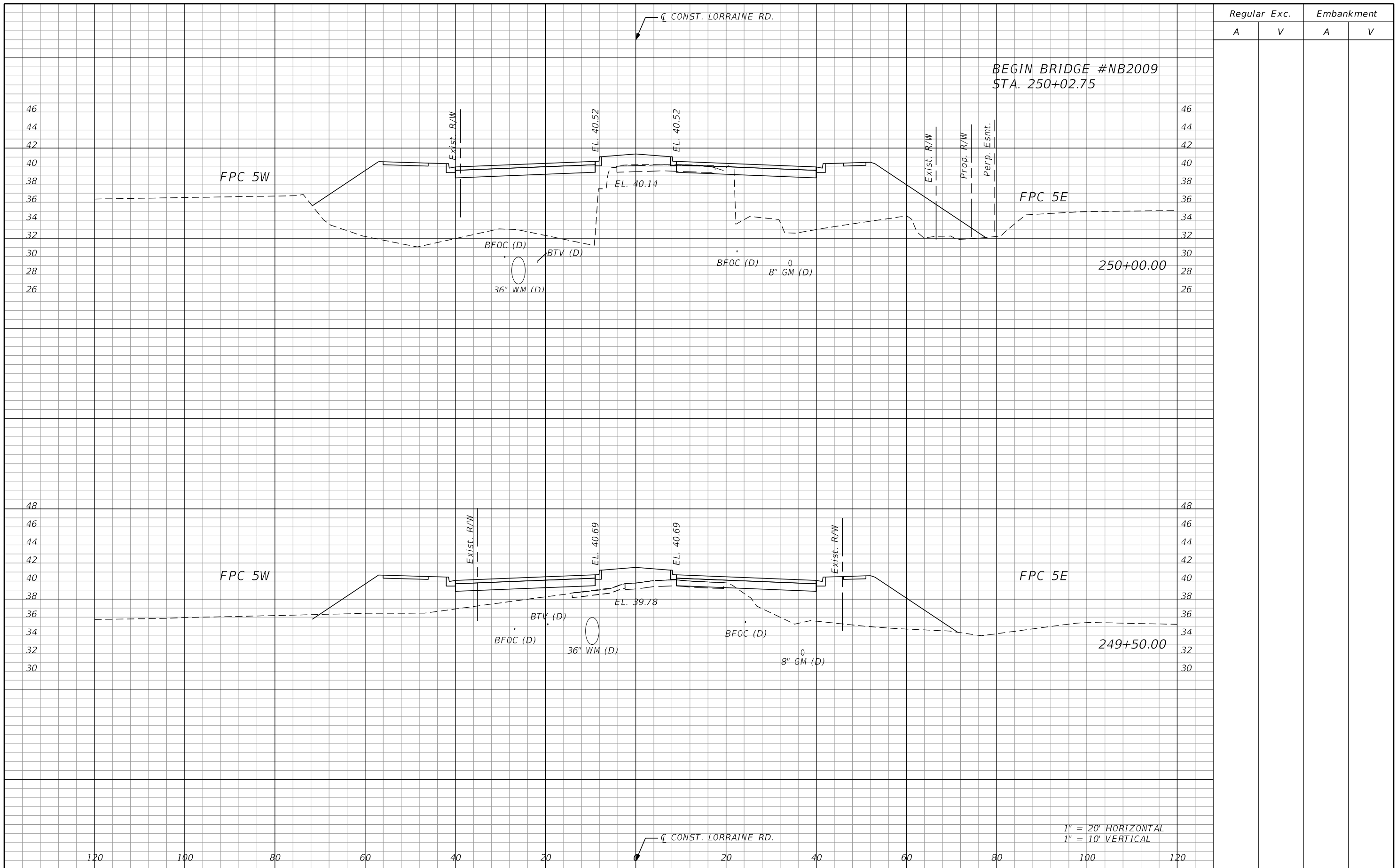
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6107660	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 215
No. REVISIONS DATE BY			11/30/2022 3:23:57 PM Rdxsrd_shg		pw:\pwhdrowseas01\HDR_US_East_01\Documents\3658\10345615\6.0_CAD_BIM\6.2_WIP\12345678910\roadway\RDXSRD02.dgn		

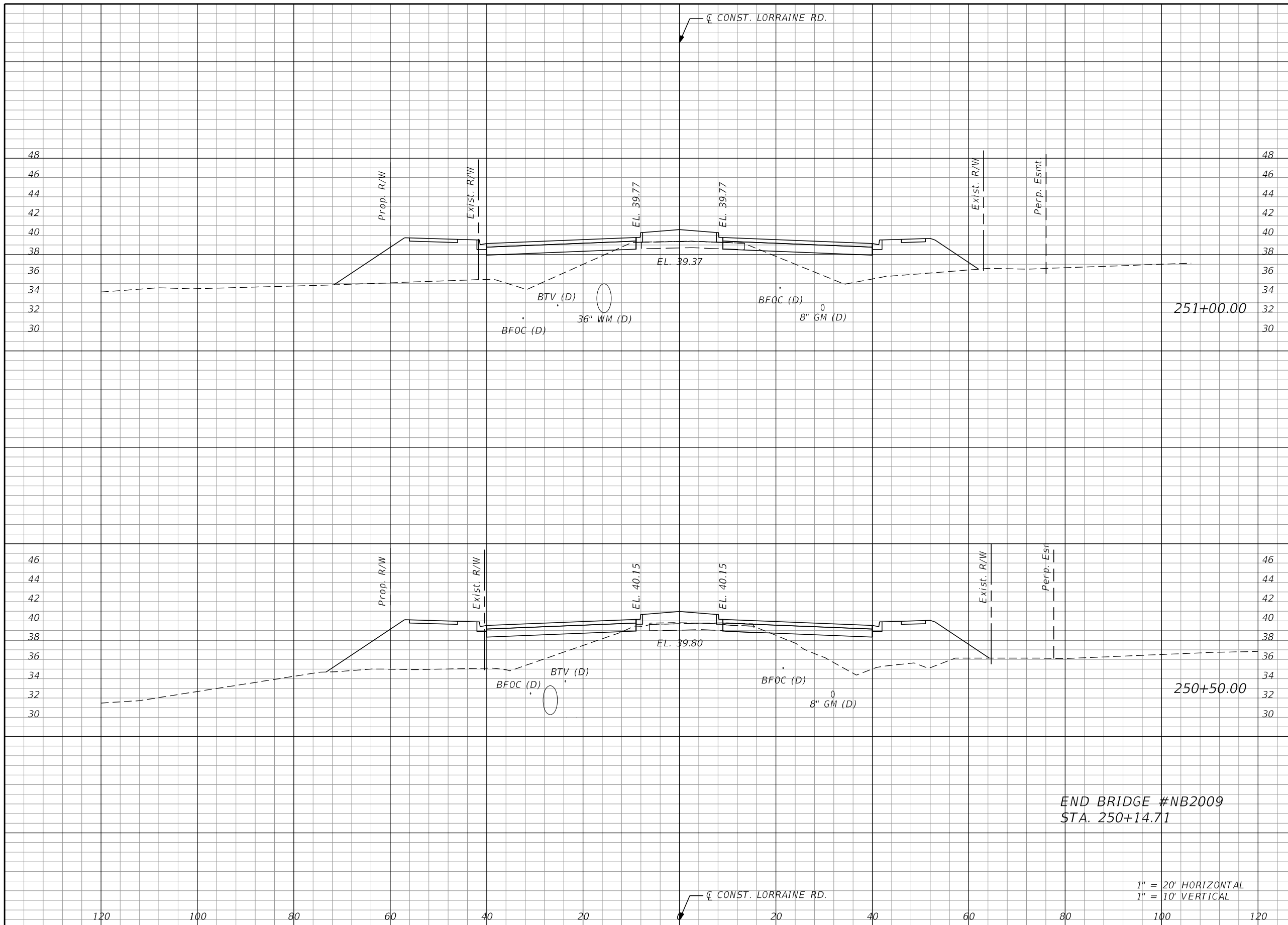
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS				HDR HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022 PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		CROSS SECTIONS		SHEET NO. 216	
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

END BRIDGE #NB2009
STA. 250+14.71

1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6107660

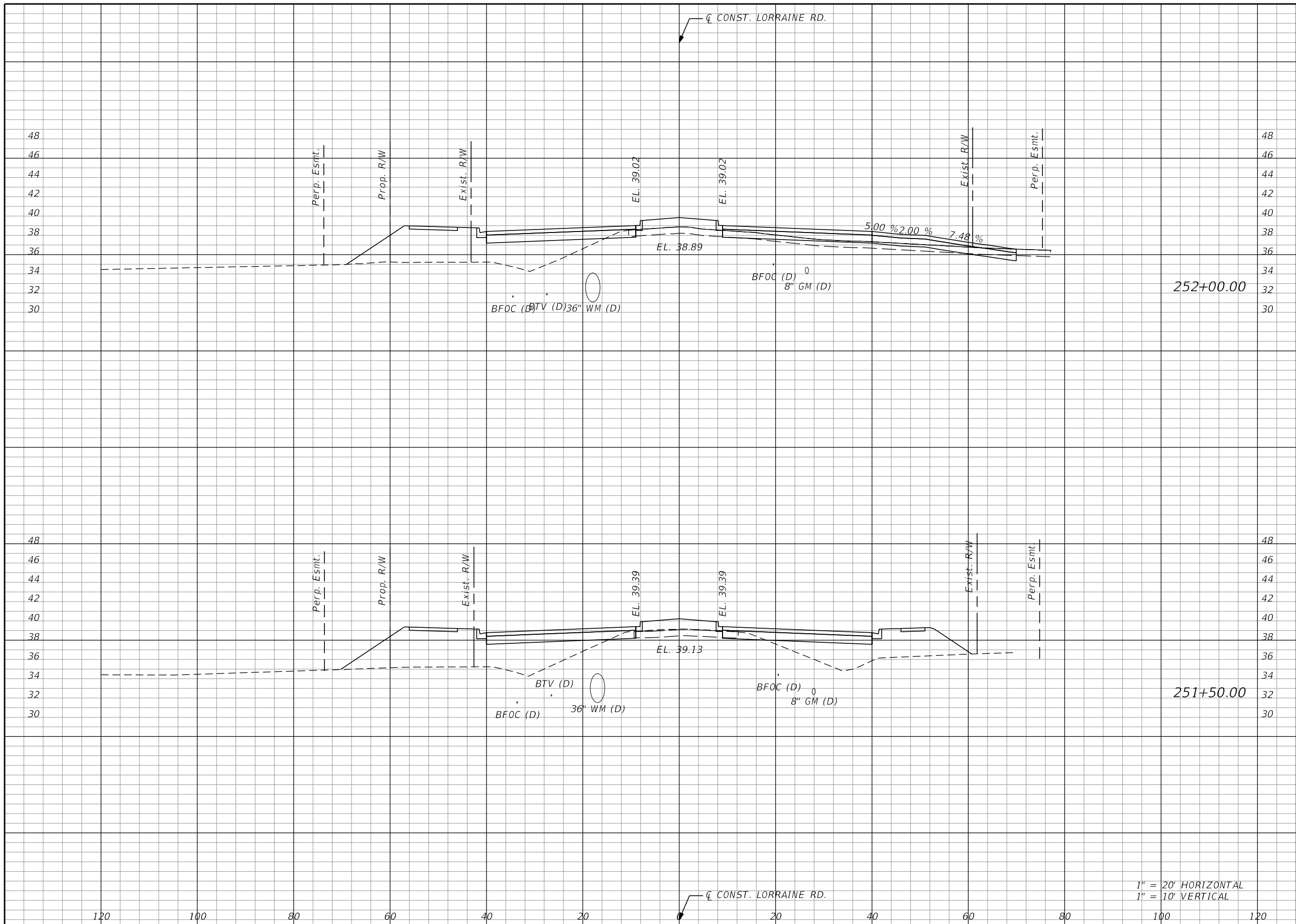
Manatee County
 MANATEE COUNTY
 PUBLIC WORKS

DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557

CROSS SECTIONS

SHEET NO.	217
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



Regular		Exc.		Embankment	
A	V	A	V	A	V

1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6107660

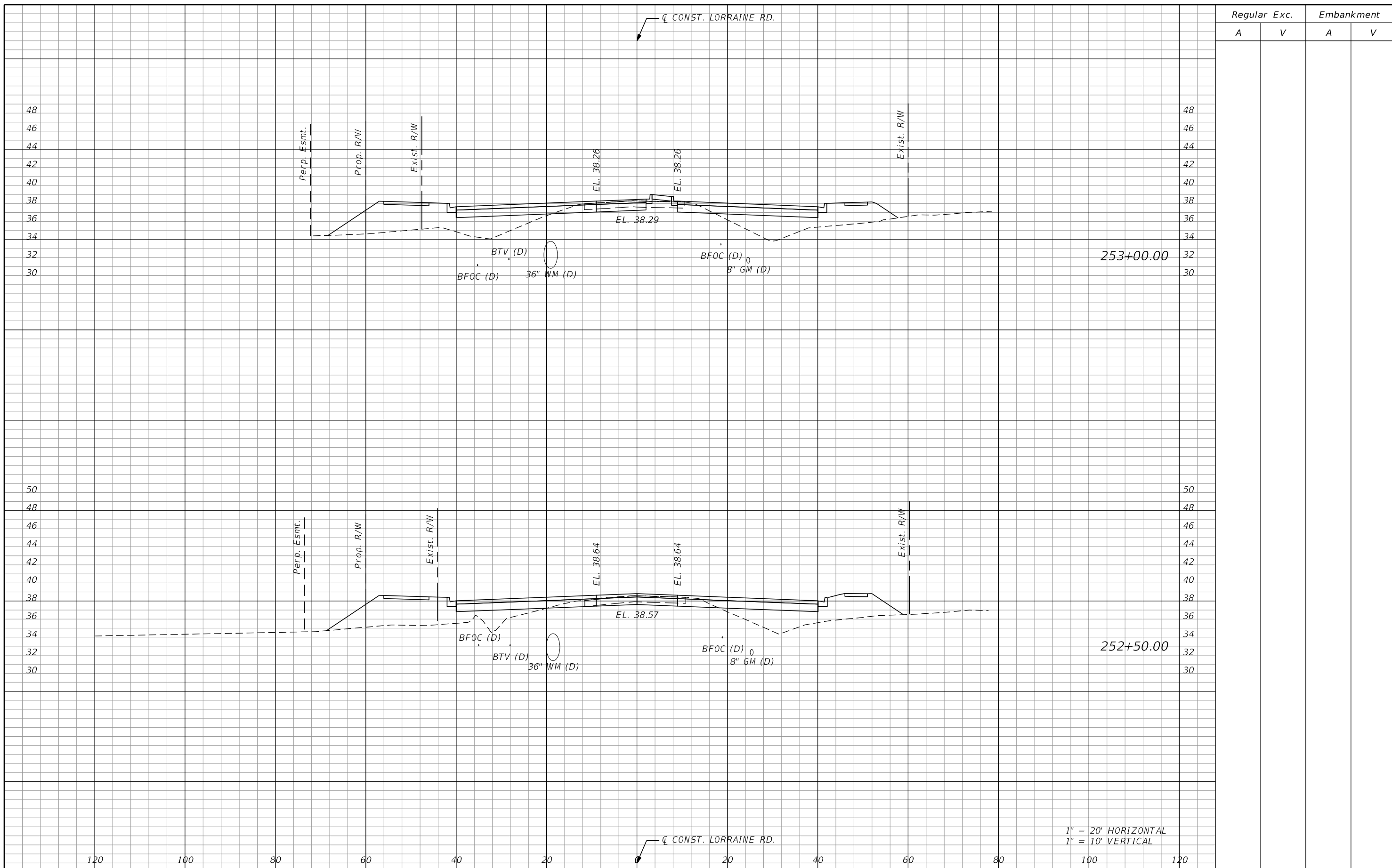
Manatee County
 MANATEE COUNTY
 PUBLIC WORKS

DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557

CROSS SECTIONS

SHEET NO.	218
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

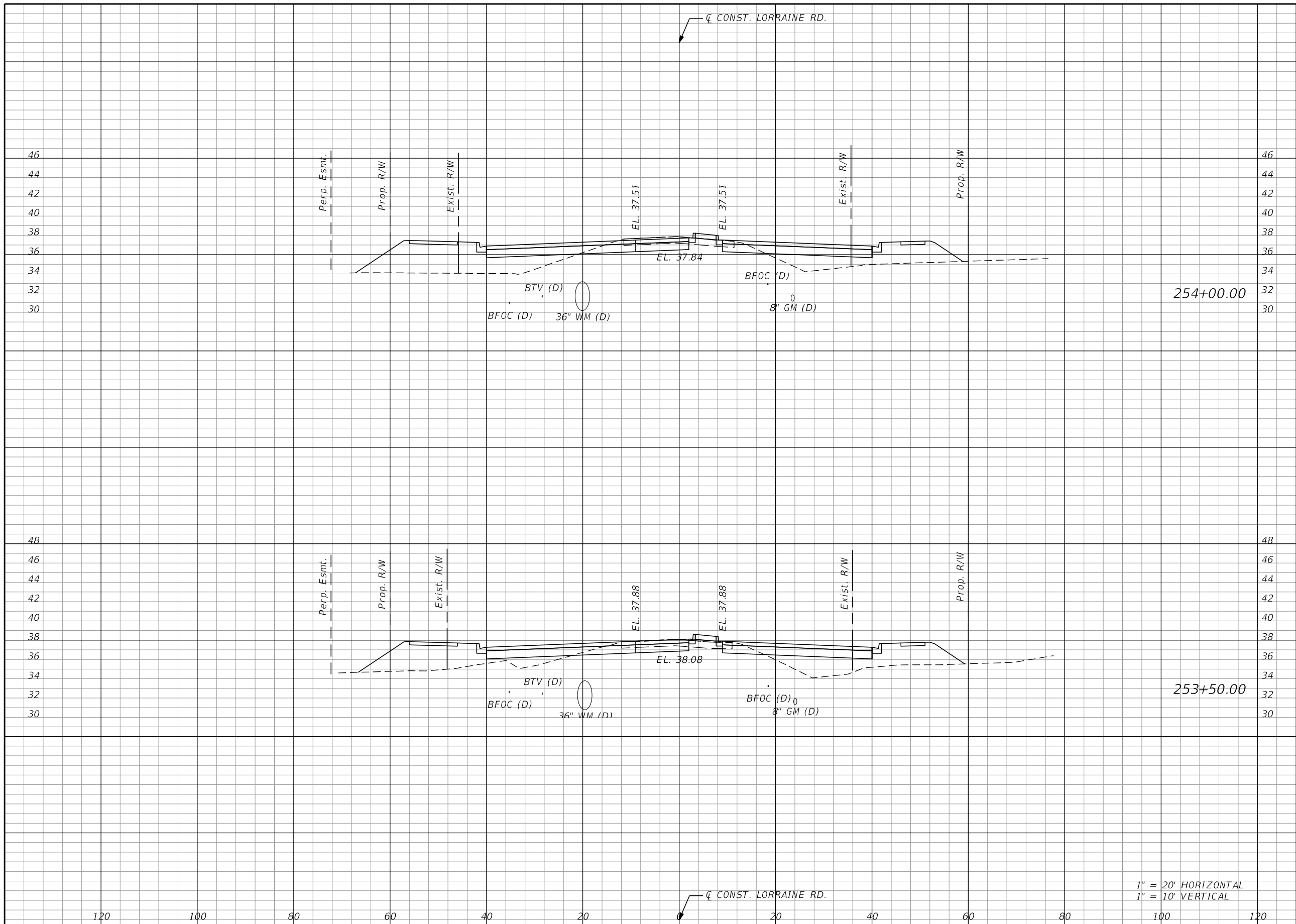


Regular		Exc.		Embankment	
A	V	A	V	A	V

1" = 20' HORIZONTAL
1" = 10' VERTICAL

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 219
REVISIONS No. DATE BY			PROJECT NO. 6107660				

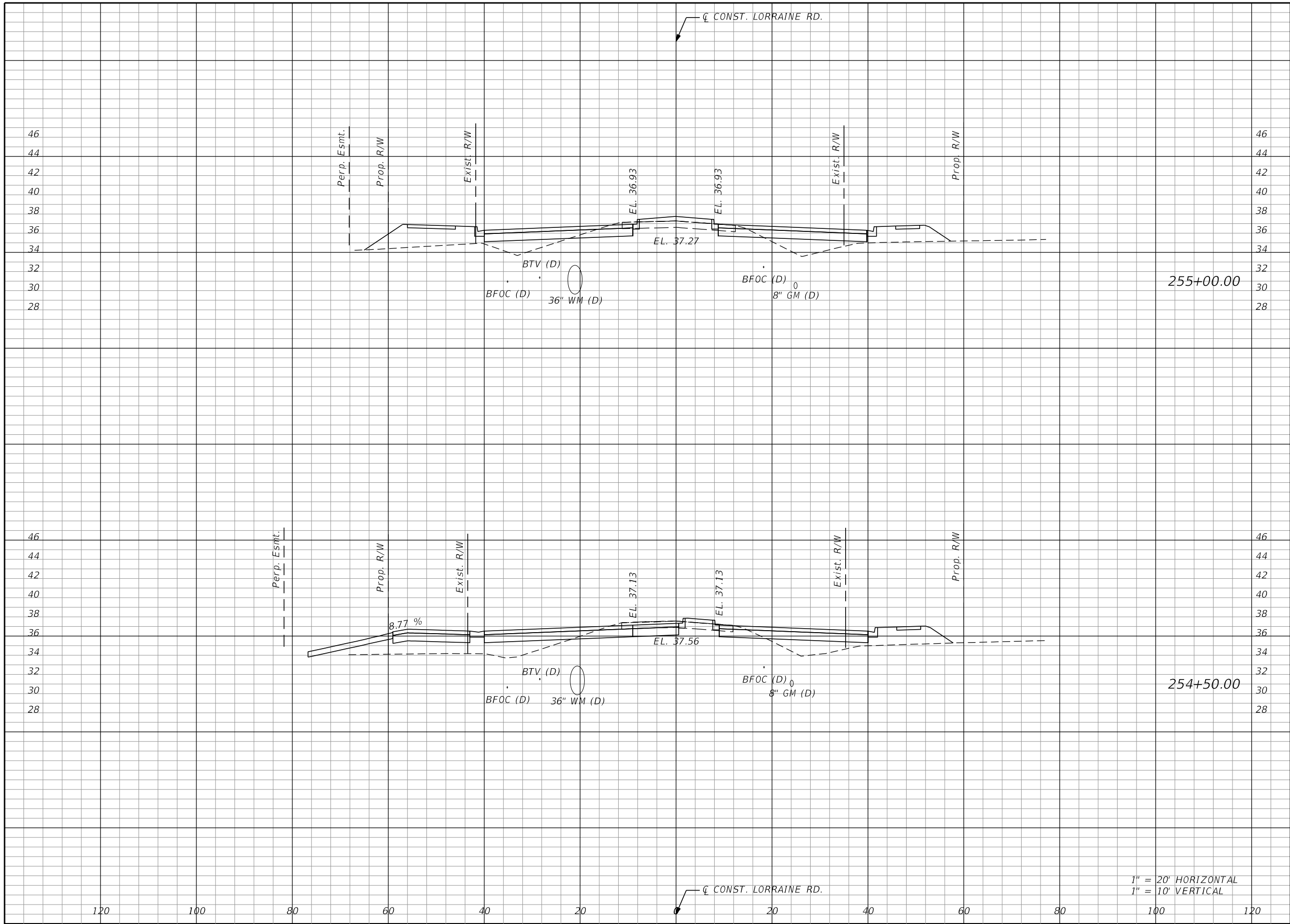
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Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS SHEET NO. 220
No. REVISIONS DATE BY			PROJECT NO. 6107660		1" = 20' HORIZONTAL 1" = 10' VERTICAL	

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Regular		Exc.		Embankment	
A	V	A	V	A	V

No.	REVISIONS	DATE	BY

SCALE AS NOTED

DESIGNED BY BLZ

DRAWN BY JMA

CHECKED BY JLS

HDR
HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE 11/2022

PROJECT NO. 6107660

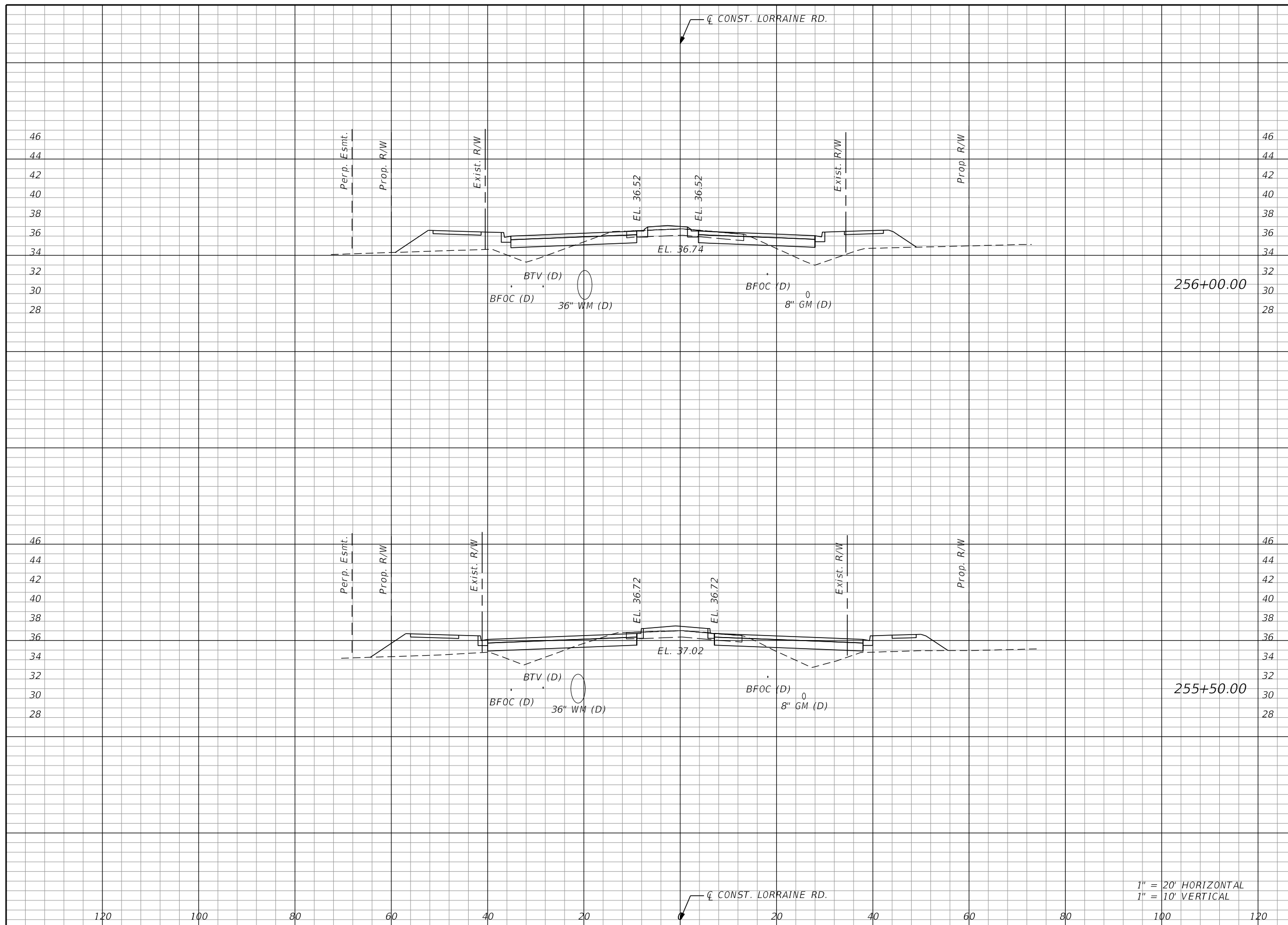
Manatee County FLORIDA
MANATEE COUNTY PUBLIC WORKS

DESIGN ENGINEER
BRIAN L. ZIMMERMAN
FL. LICENSE NO. 78557

CROSS SECTIONS

SHEET NO. 221

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	A	V

1" = 20' HORIZONTAL
1" = 10' VERTICAL

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE 11/2022
 PROJECT NO. 6107660

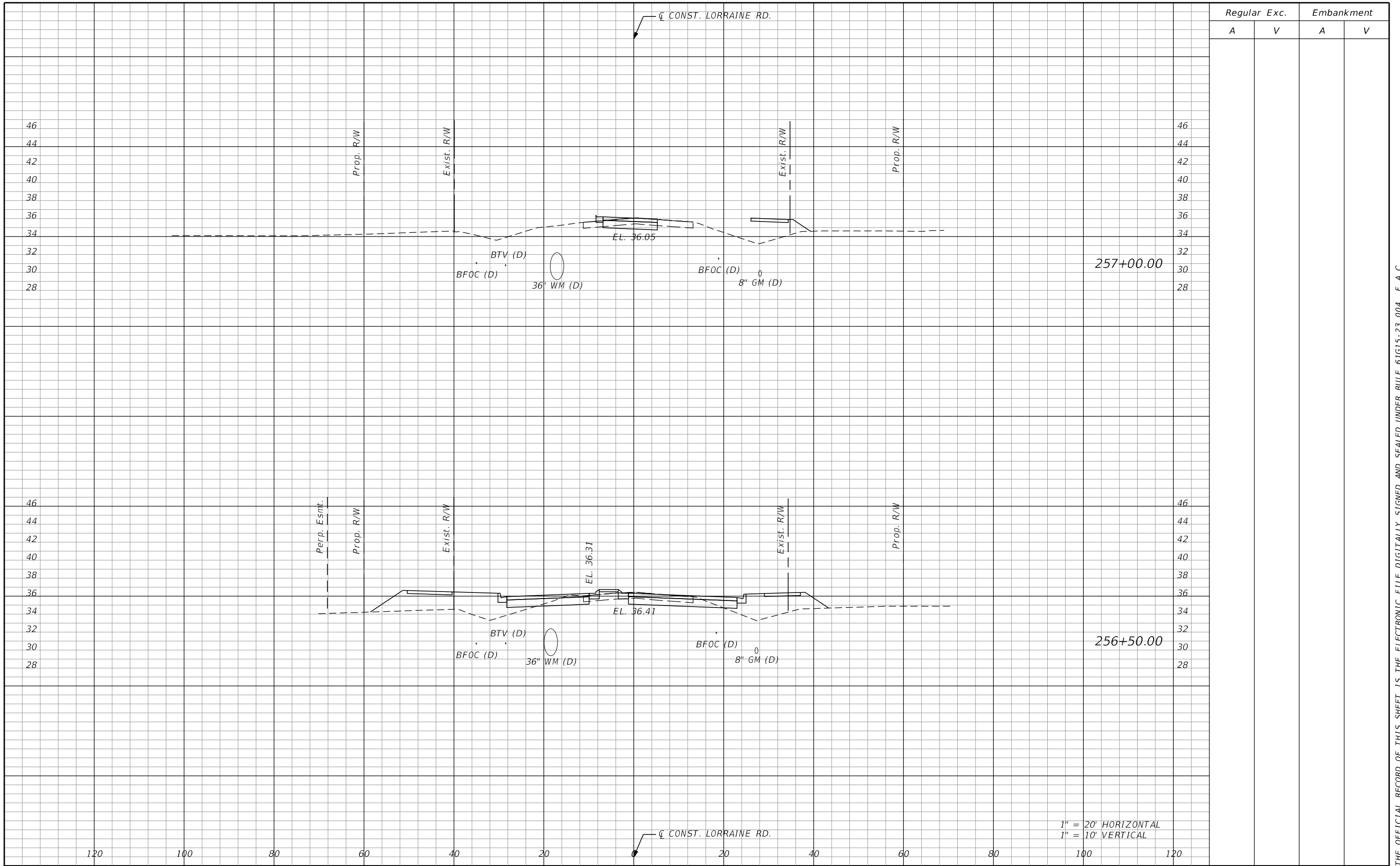
Manatee County
 MANATEE COUNTY
 PUBLIC WORKS

DESIGN ENGINEER
 BRIAN L. ZIMMERMAN
 FL. LICENSE NO. 78557

CROSS SECTIONS



SHEET NO. 222

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

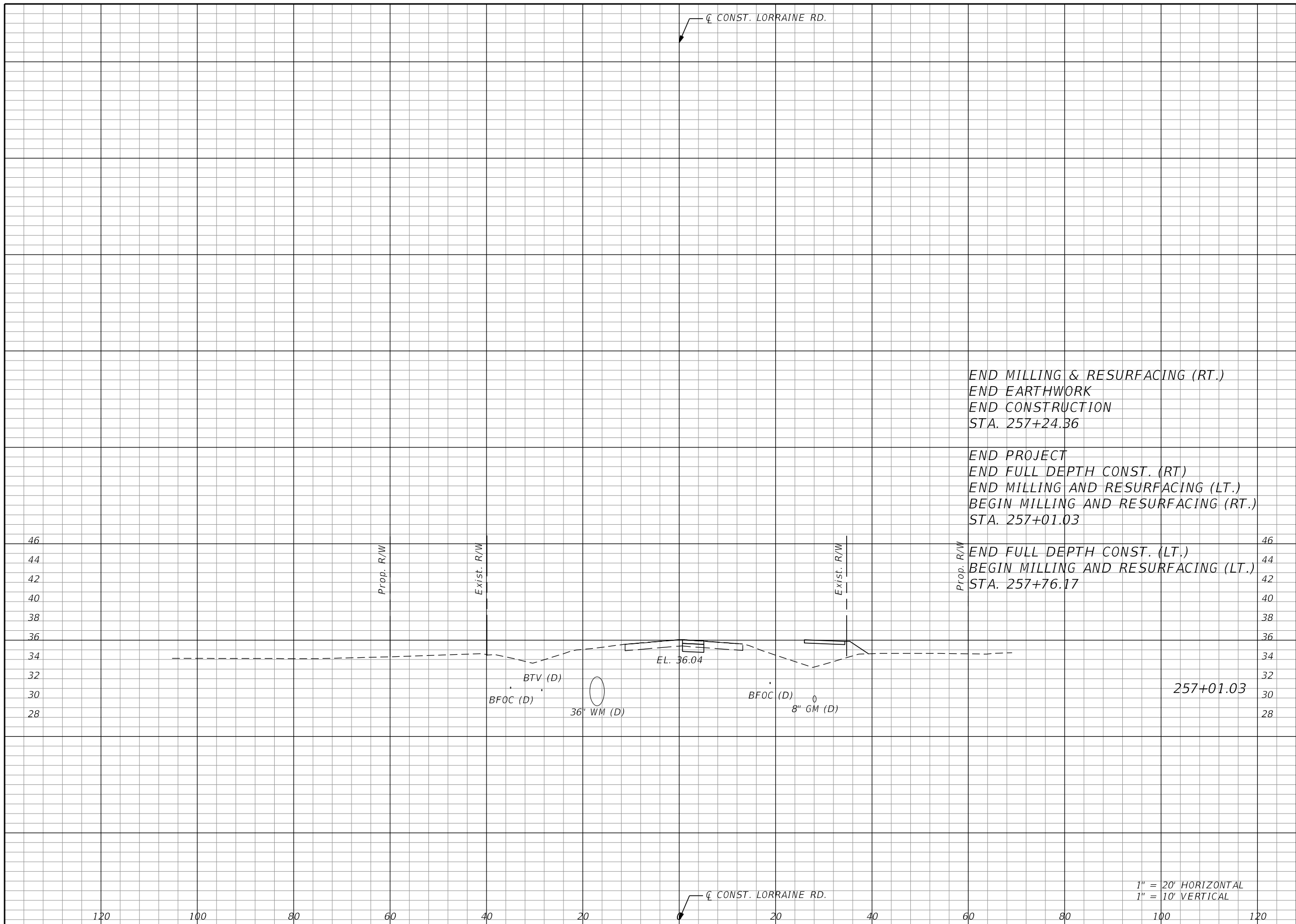


Regular		Exc.		Embankment	
A	V	A	V	A	V

1" = 20' HORIZONTAL
1" = 10' VERTICAL

<table border="1"> <thead> <tr> <th>No.</th> <th>REVISIONS</th> <th>DATE</th> <th>BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	No.	REVISIONS	DATE	BY																	<table border="1"> <tr><td>SCALE</td><td>AS NOTED</td></tr> <tr><td>DESIGNED BY</td><td>BLZ</td></tr> <tr><td>DRAWN BY</td><td>JMA</td></tr> <tr><td>CHECKED BY</td><td>JLS</td></tr> </table>	SCALE	AS NOTED	DESIGNED BY	BLZ	DRAWN BY	JMA	CHECKED BY	JLS	 <p>HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609</p>	<table border="1"> <tr><td>DATE</td><td>11/2022</td></tr> <tr><td>PROJECT NO.</td><td>6107660</td></tr> </table>	DATE	11/2022	PROJECT NO.	6107660	 <p>MANATEE COUNTY PUBLIC WORKS</p>	<table border="1"> <tr><td>DESIGN ENGINEER</td><td>BRIAN L. ZIMMERMAN</td></tr> <tr><td>FL. LICENSE NO.</td><td>78557</td></tr> </table>	DESIGN ENGINEER	BRIAN L. ZIMMERMAN	FL. LICENSE NO.	78557	<p>CROSS SECTIONS</p>	<table border="1"> <tr><td>SHEET NO.</td><td>223</td></tr> </table>	SHEET NO.	223
	No.	REVISIONS	DATE	BY																																									
SCALE	AS NOTED																																												
DESIGNED BY	BLZ																																												
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DESIGN ENGINEER	BRIAN L. ZIMMERMAN																																												
FL. LICENSE NO.	78557																																												
SHEET NO.	223																																												

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



END MILLING & RESURFACING (RT.)
 END EARTHWORK
 END CONSTRUCTION
 STA. 257+24.36

END PROJECT
 END FULL DEPTH CONST. (RT.)
 END MILLING AND RESURFACING (LT.)
 BEGIN MILLING AND RESURFACING (RT.)
 STA. 257+01.03

END FULL DEPTH CONST. (LT.)
 BEGIN MILLING AND RESURFACING (LT.)
 STA. 257+76.17

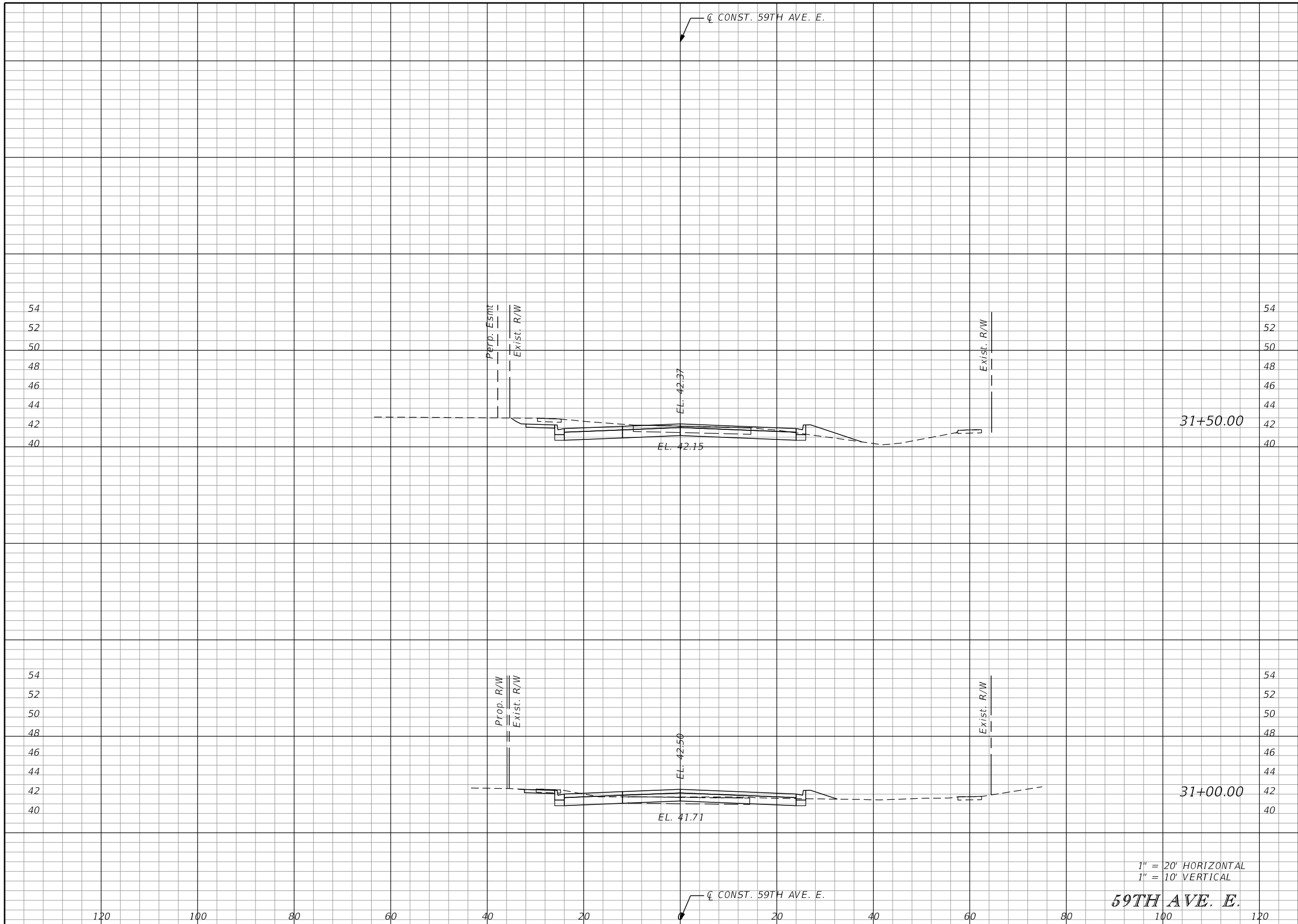
257+01.03

1" = 20' HORIZONTAL
 1" = 10' VERTICAL

Regular		Exc.		Embankment	
A	V	A	V	A	V

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	CROSS SECTIONS	SHEET NO. 224
PROJECT NO. 6107660			11/30/2022 3:24:26 PM Rdxsrd_shg		pw:\pwhruseas01:HDR_US_East_01\Documents\3658\10345615\6.0_CAD_BIM\6.2_WIP\12345678910\roadway\RDXSRD02.dgn		

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Regular		Exc.		Embankment	
A	V	A	V	A	V

1" = 20' HORIZONTAL
1" = 10' VERTICAL

59TH AVE. E.

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE 11/2022
 PROJECT NO. 6107660



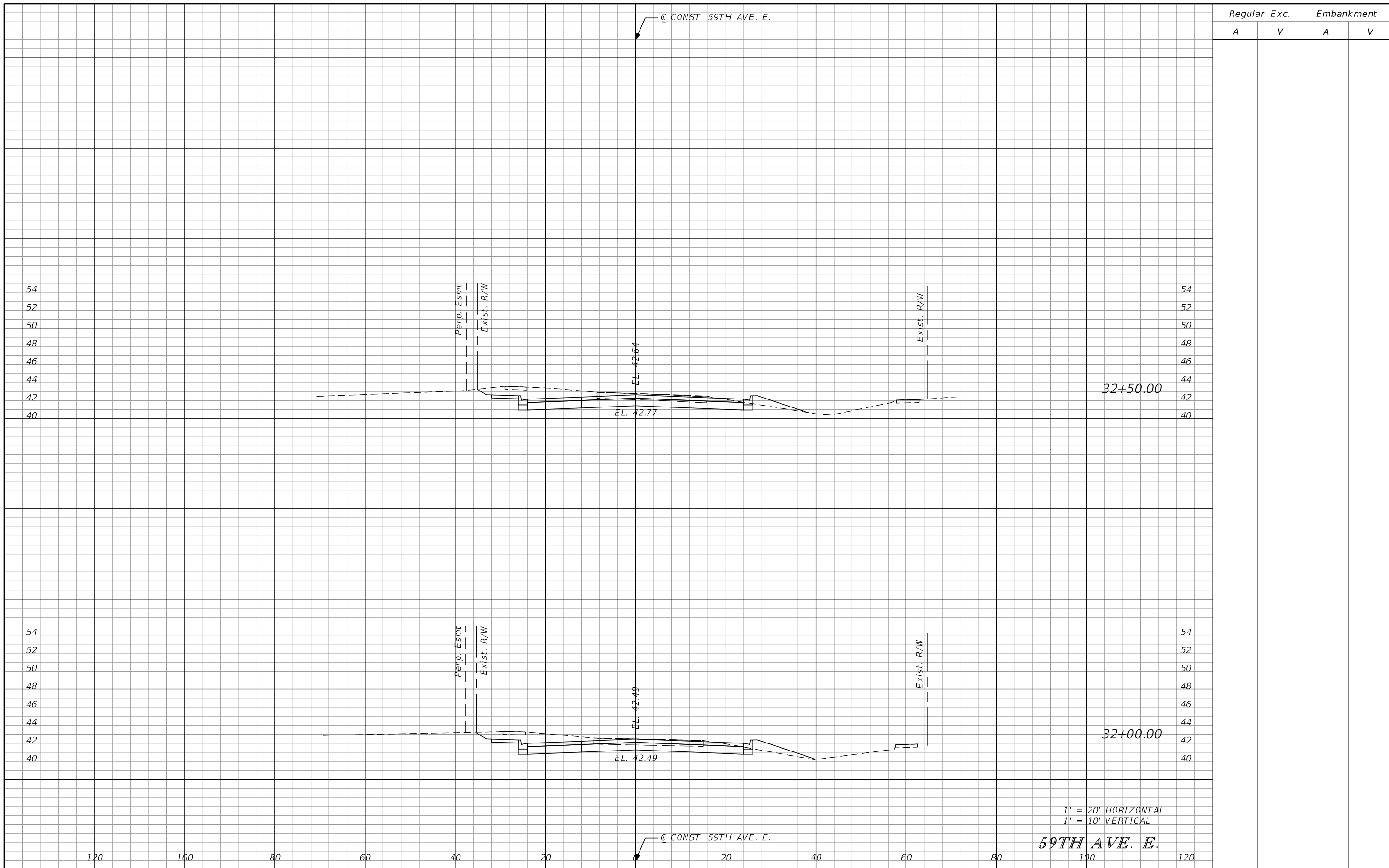
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
BRIAN L. ZIMMERMAN
FL. LICENSE NO. 78557

CROSS SECTIONS

SHEET NO. 225

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



1" = 20' HORIZONTAL
1" = 10' VERTICAL

59TH AVE. E.

No.	REVISIONS	DATE	BY

SCALE AS NOTED

DESIGNED BY BLZ

DRAWN BY JMA

CHECKED BY JLS

HDR
HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE 11/2022

PROJECT NO. 6107660



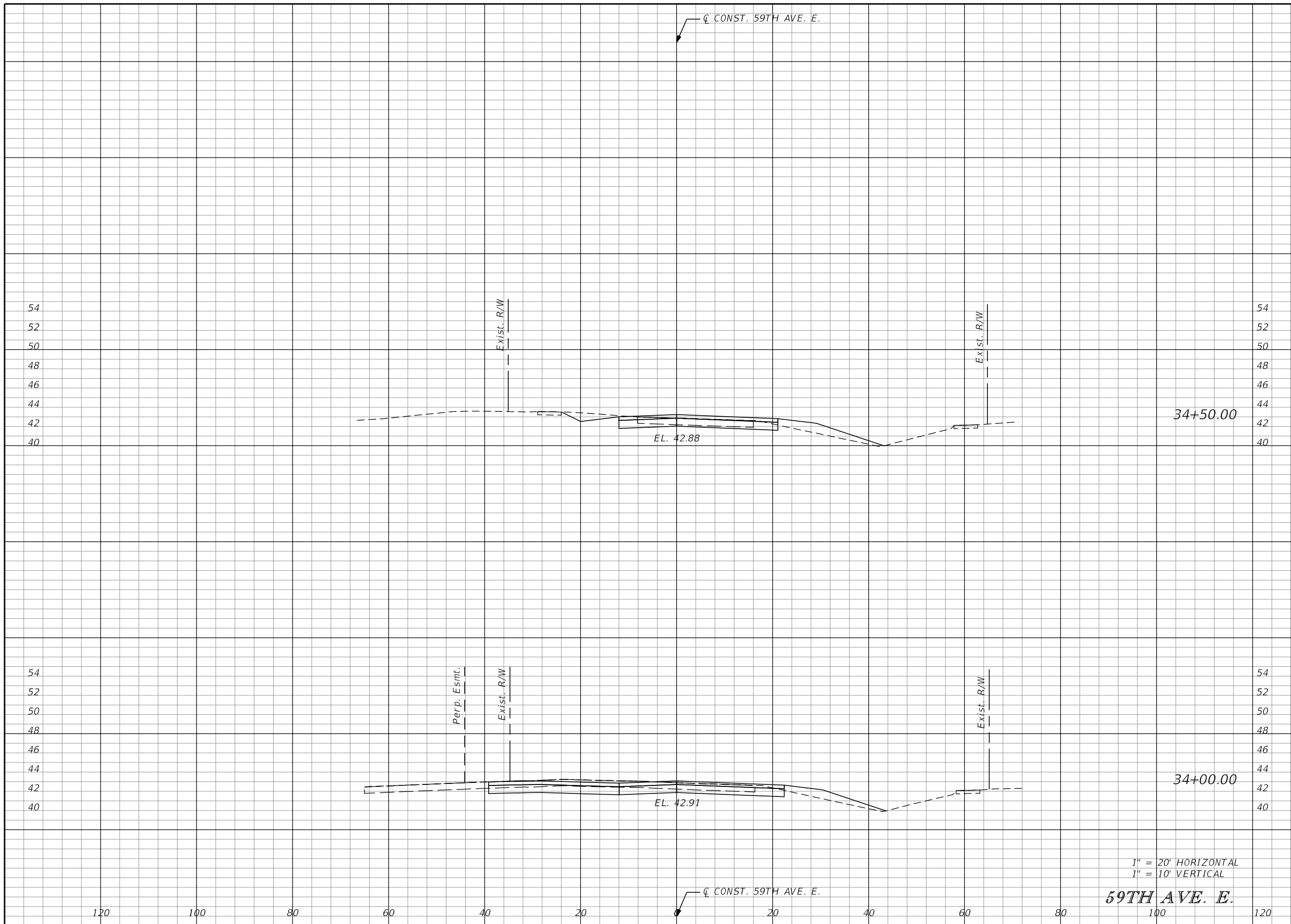
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
BRIAN L. ZIMMERMAN
FL. LICENSE NO. 78557

CROSS SECTIONS

SHEET NO. 226

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	A	V

1" = 20' HORIZONTAL
1" = 10' VERTICAL

59TH AVE. E.

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6107660

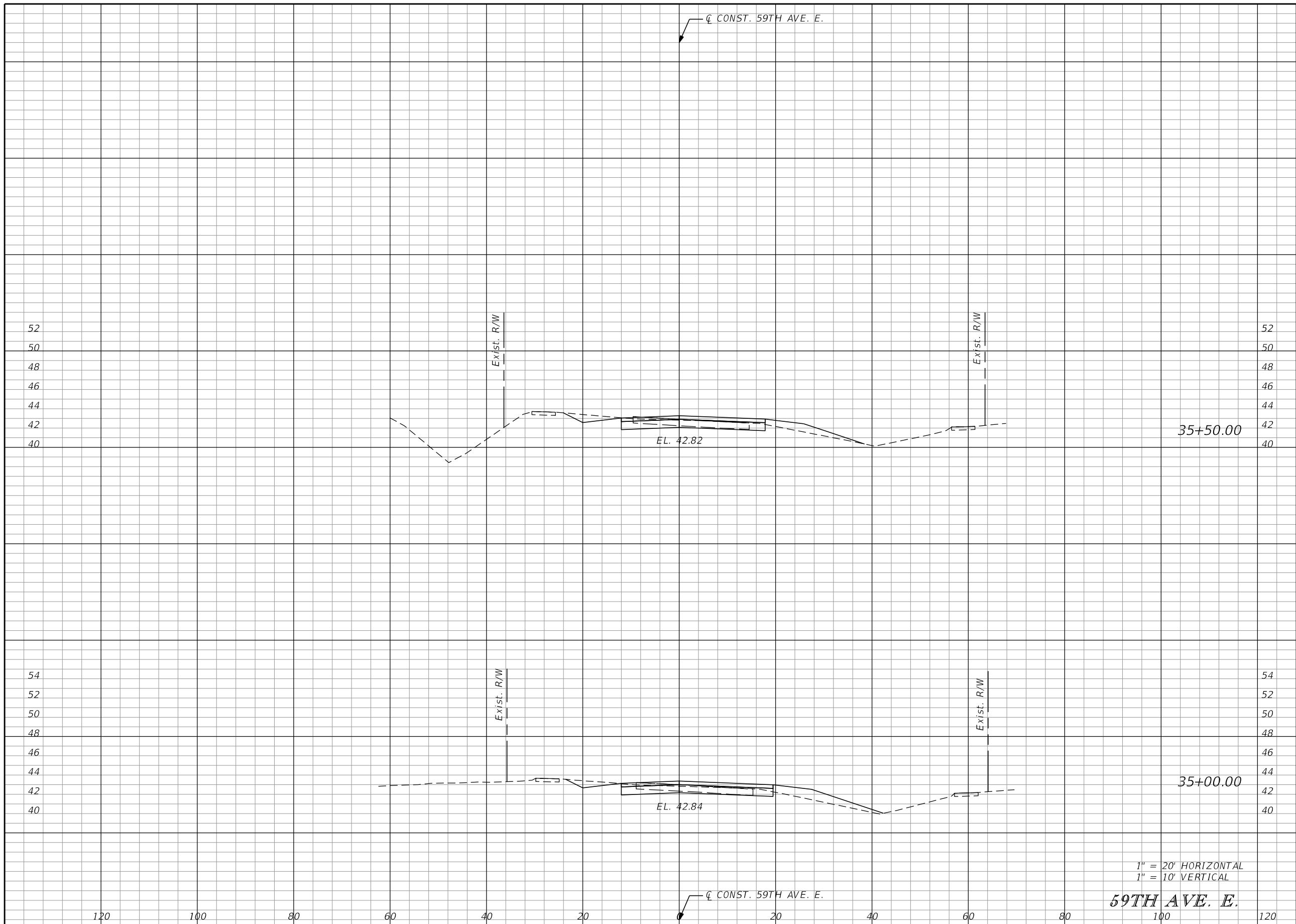
Manatee County
 MANATEE COUNTY
 PUBLIC WORKS

DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557

CROSS SECTIONS

SHEET NO.	228
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Regular		Exc.		Embankment	
A	V	A	V	A	V

1" = 20' HORIZONTAL
1" = 10' VERTICAL

59TH AVE. E.

No.	REVISIONS	DATE	BY

SCALE AS NOTED
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HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6107660

Manatee County
 FLORIDA

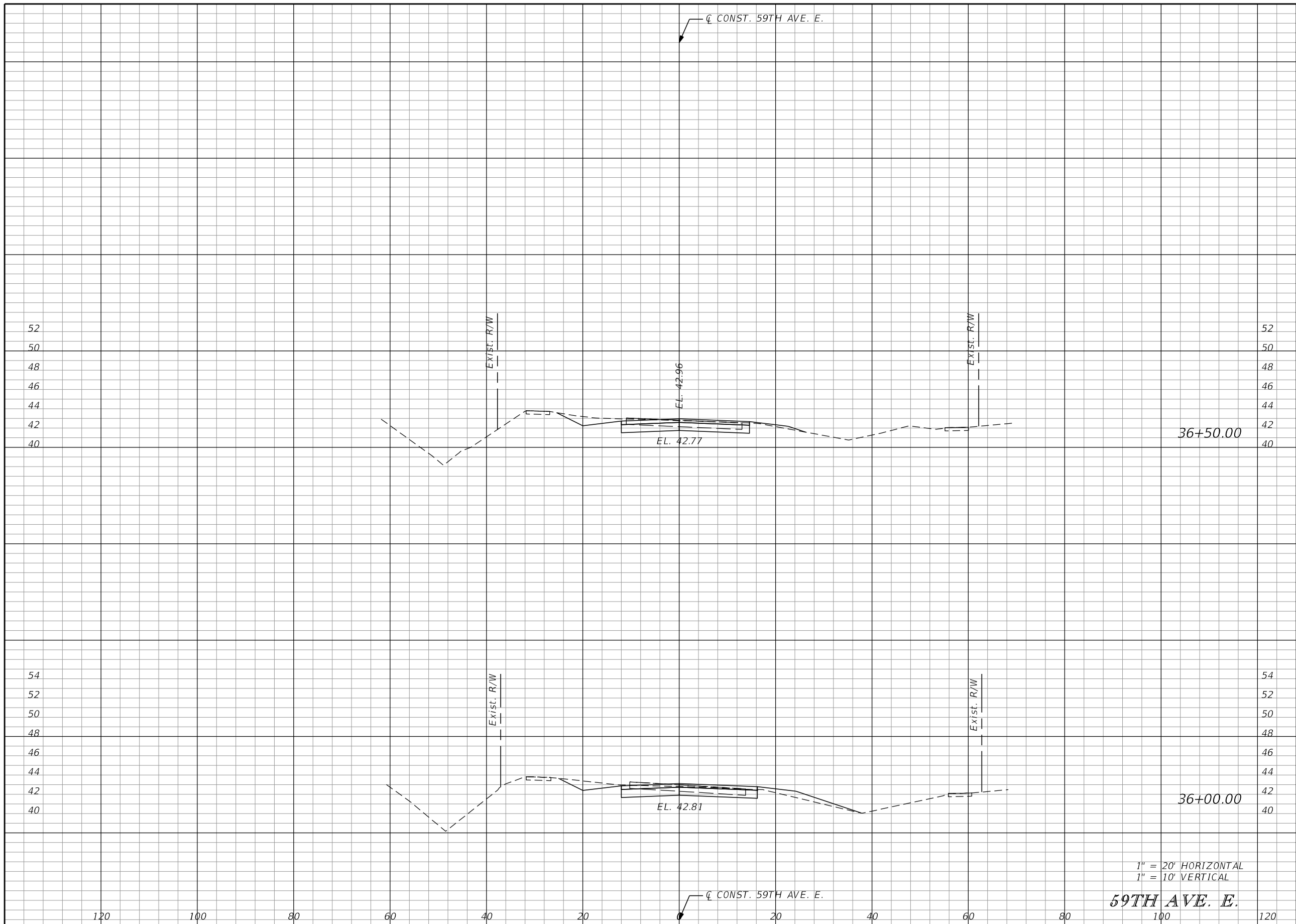
MANATEE COUNTY
 PUBLIC WORKS

DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557

CROSS SECTIONS

SHEET NO.	229
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Regular		Exc.		Embankment	
A	V	A	V	A	V

1" = 20' HORIZONTAL
1" = 10' VERTICAL

59TH AVE. E.

No.	REVISIONS	DATE	BY

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
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HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6107660

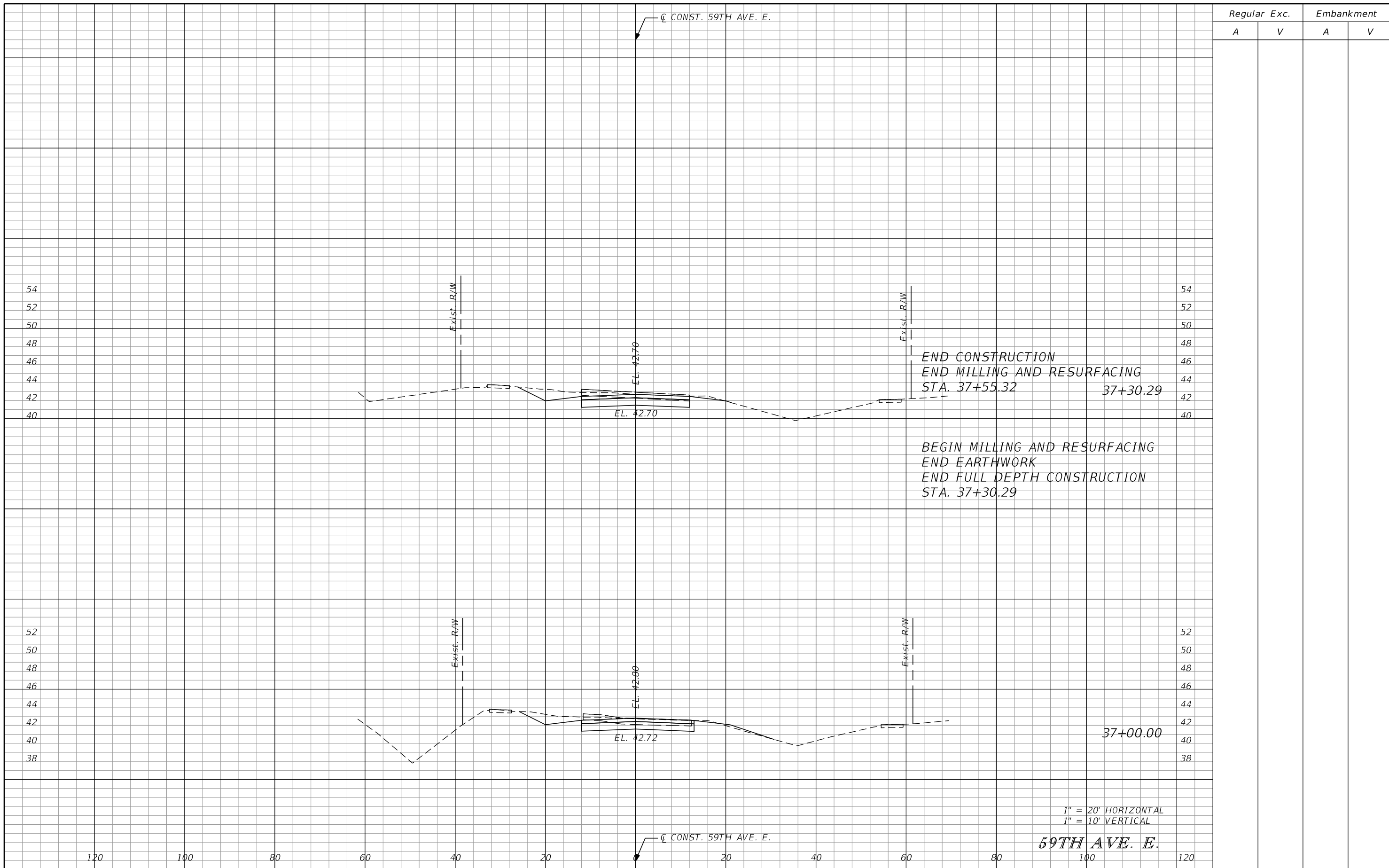
Manatee County
 MANATEE COUNTY
 PUBLIC WORKS

DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557

CROSS SECTIONS

SHEET NO.	230
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Regular Exc. Embankment

A V A V

54
52
50
48
46
44
42
40

Exist. R/W

EL. 42.70

EL. 42.70

Exist. R/W

END CONSTRUCTION
END MILLING AND RESURFACING
STA. 37+55.32 37+30.29

52
50
48
46
44
42
40
38

Exist. R/W

EL. 42.80

EL. 42.72

Exist. R/W

BEGIN MILLING AND RESURFACING
END EARTHWORK
END FULL DEPTH CONSTRUCTION
STA. 37+30.29

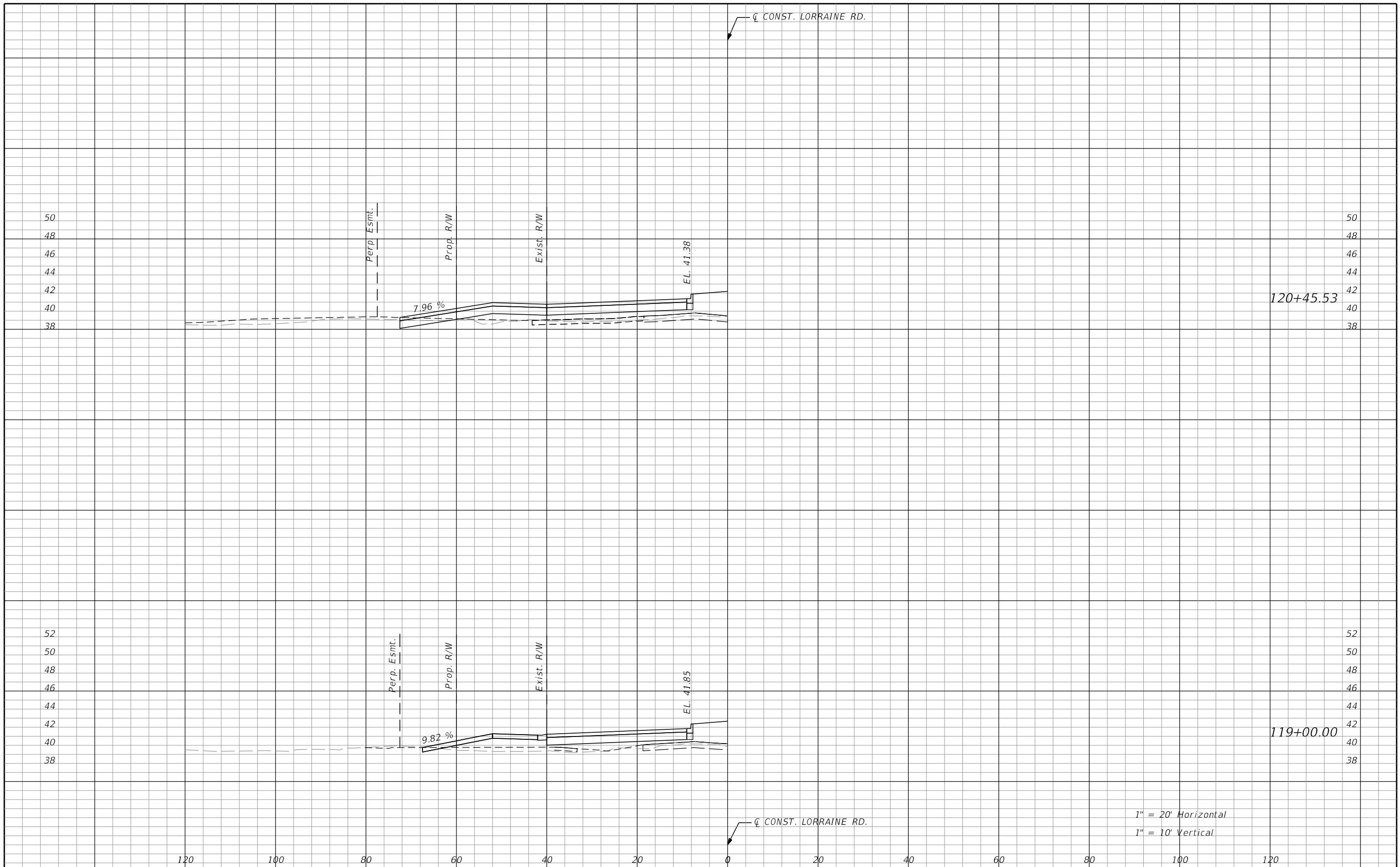
37+00.00

1" = 20' HORIZONTAL
1" = 10' VERTICAL



59TH AVE. E.

SCALE AS NOTED				DATE 11/2022		DESIGN ENGINEER BRIAN L. ZIMMERMAN		SHEET NO. 231
DESIGNED BY BLZ				PROJECT NO. 6107660		FL. LICENSE NO. 78557		
DRAWN BY JMA				PROJECT NO. 6107660		CROSS SECTIONS		231
CHECKED BY JLS				PROJECT NO. 6107660				
No.	REVISIONS	DATE	BY	HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		MANATEE COUNTY PUBLIC WORKS		

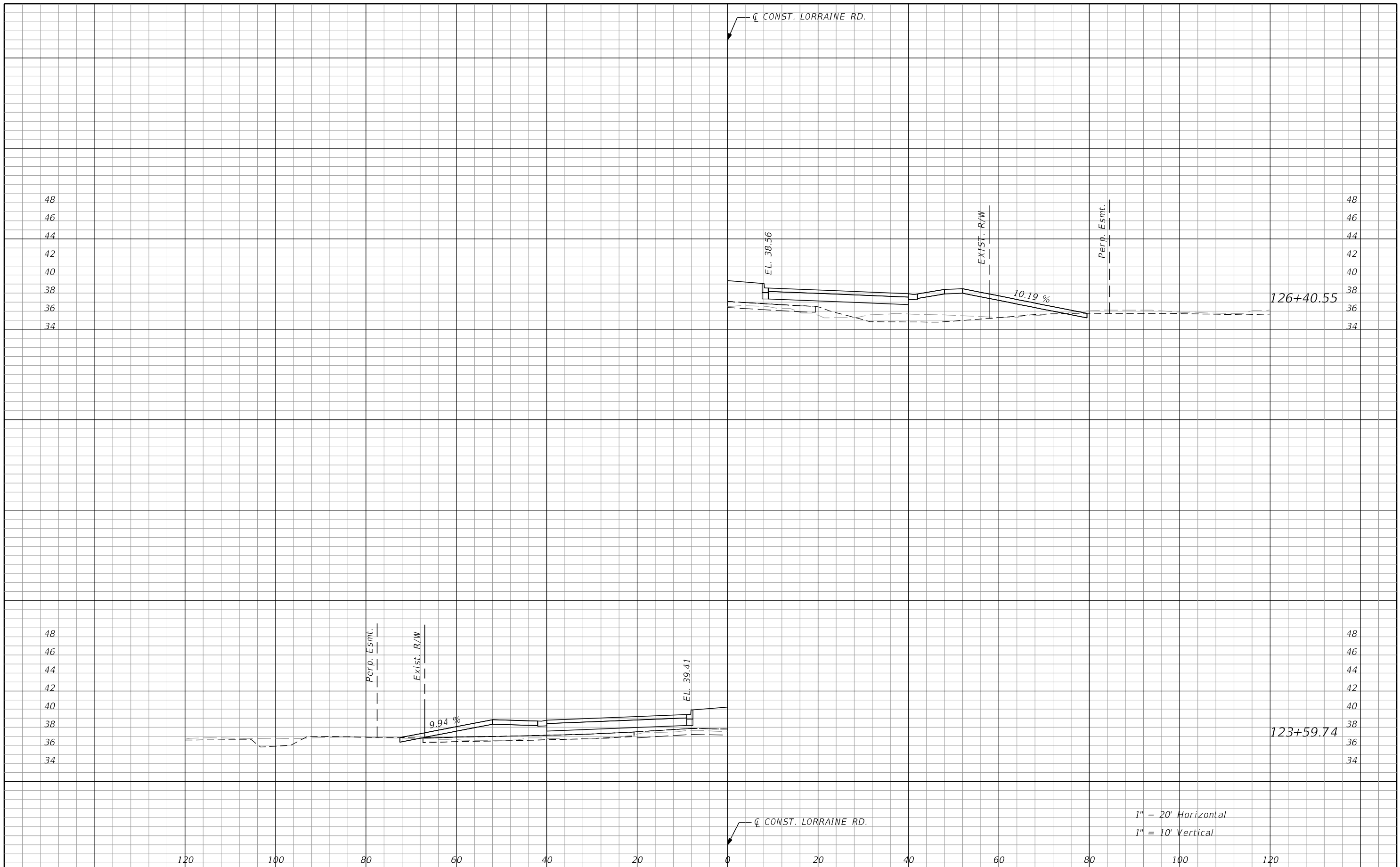
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



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

No.		REVISIONS		DATE	BY	SCALE AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	DRIVEWAY HALF SECTION	SHEET NO. 232
						CHECKED BY JLS		PROJECT NO. 6045662				
						DRAWN BY JMA						
						DESIGNED BY BLZ						

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

SCALE AS NOTED	
DESIGNED BY	BLZ
DRAWN BY	JMA
CHECKED BY	JLS
No.	REVISIONS
DATE	BY

HDR
HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE
11/2022

PROJECT NO.
6045662

Manatee County
FLORIDA

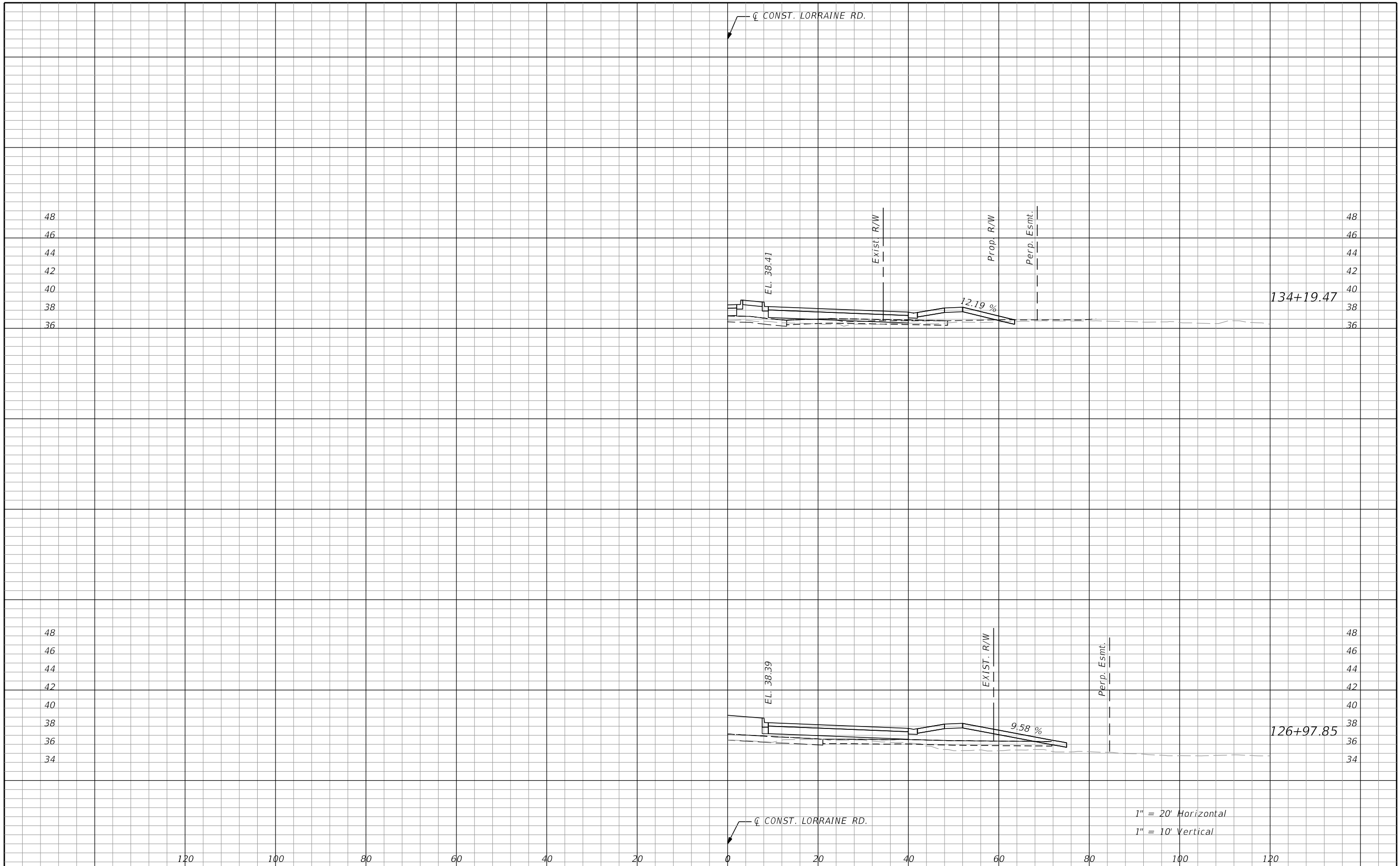
**MANATEE COUNTY
PUBLIC WORKS**

DESIGN ENGINEER
BRIAN L. ZIMMERMAN
FL. LICENSE NO.
78557

DRIVEWAY HALF SECTION

SHEET NO.
233

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

No.	REVISIONS	DATE	BY

SCALE AS NOTED

DESIGNED BY BLZ

DRAWN BY JMA

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HDR
HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE 11/2022

PROJECT NO. 6045662

Manatee County
FLORIDA

MANATEE COUNTY PUBLIC WORKS

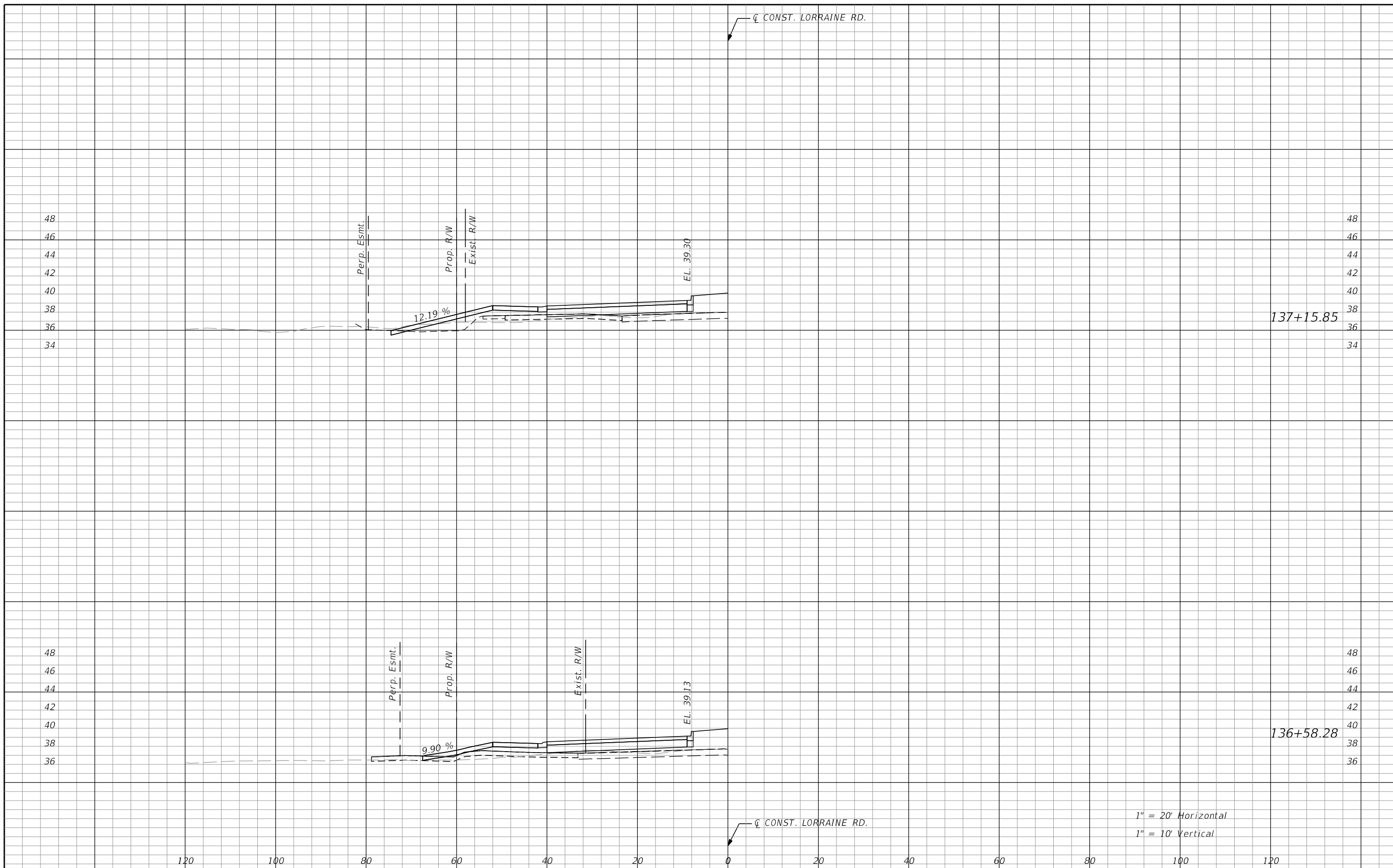
DESIGN ENGINEER BRIAN L. ZIMMERMAN

FL. LICENSE NO. 78557



DRIVEWAY HALF SECTION

SHEET NO. 234

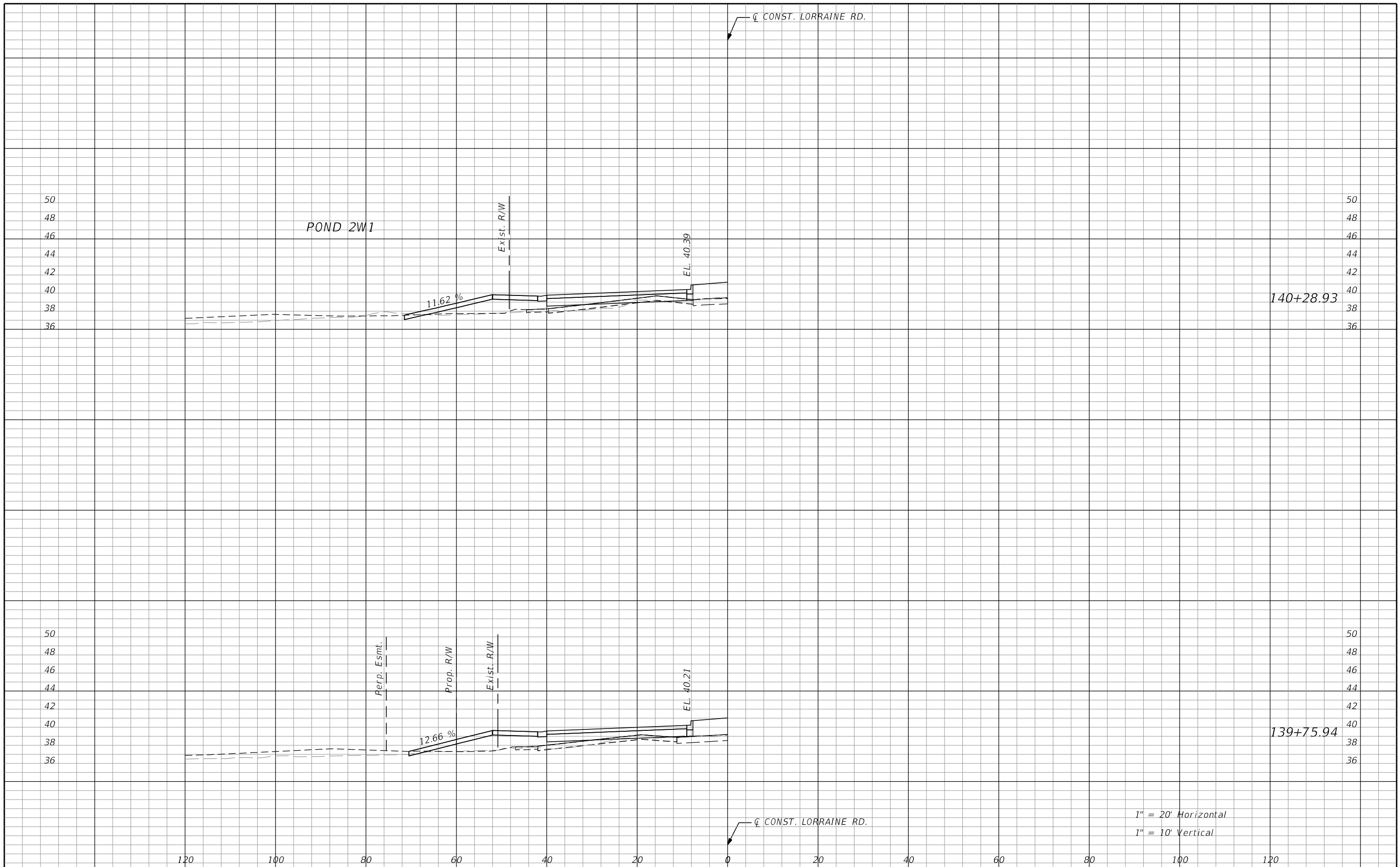
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.





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

No.		REVISIONS		DATE	BY	SCALE AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	DRIVEWAY HALF SECTION	SHEET NO. 235
						CHECKED BY JLS		PROJECT NO. 6045662				
						DRAWN BY JMA						
						DESIGNED BY BLZ						

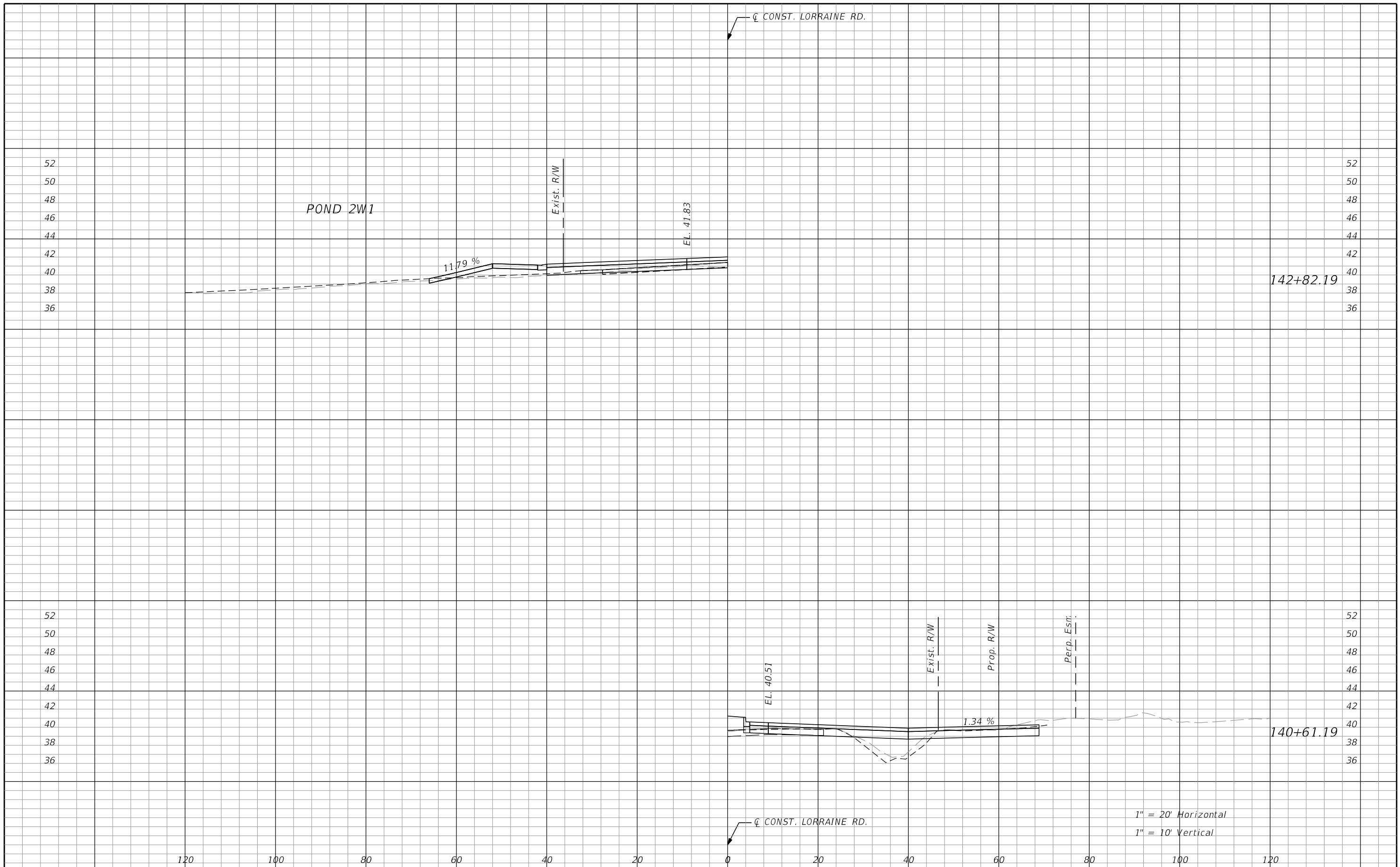
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No.		REVISIONS		DATE	BY	SCALE AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN	DRIVEWAY HALF SECTION	SHEET NO. 236
						CHECKED BY JLS		PROJECT NO. 6045662		FL. LICENSE NO. 78557		

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SCALE	AS NOTED		
DESIGNED BY	BLZ		
DRAWN BY	JMA		
CHECKED BY	JLS		
No.	REVISIONS	DATE	BY

HDR
HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE
11/2022

PROJECT NO.
6045662

Manatee County
FLORIDA

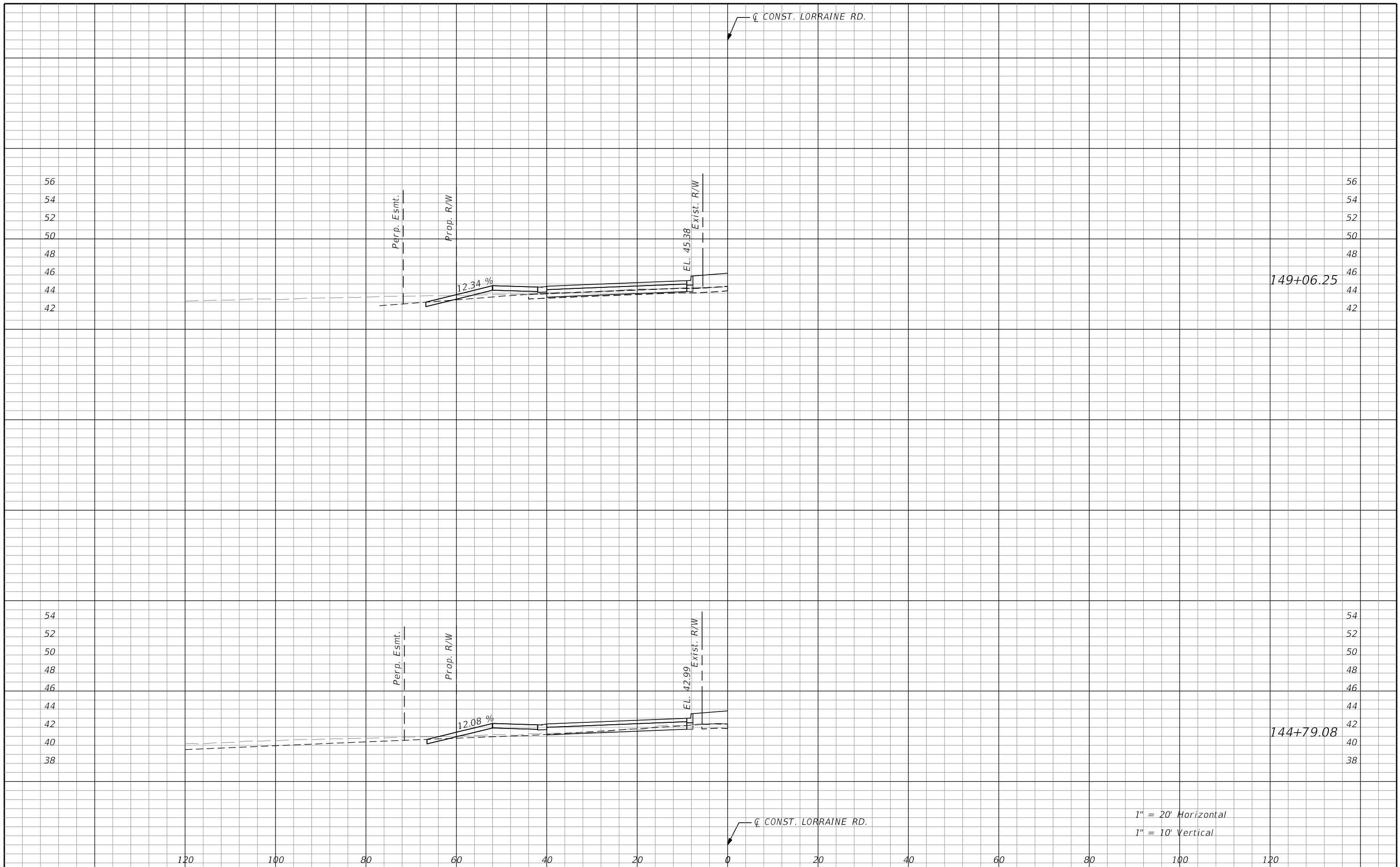
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
 BRIAN L. ZIMMERMAN
 FL. LICENSE NO.
 78557



DRIVEWAY HALF SECTION

SHEET NO.
237

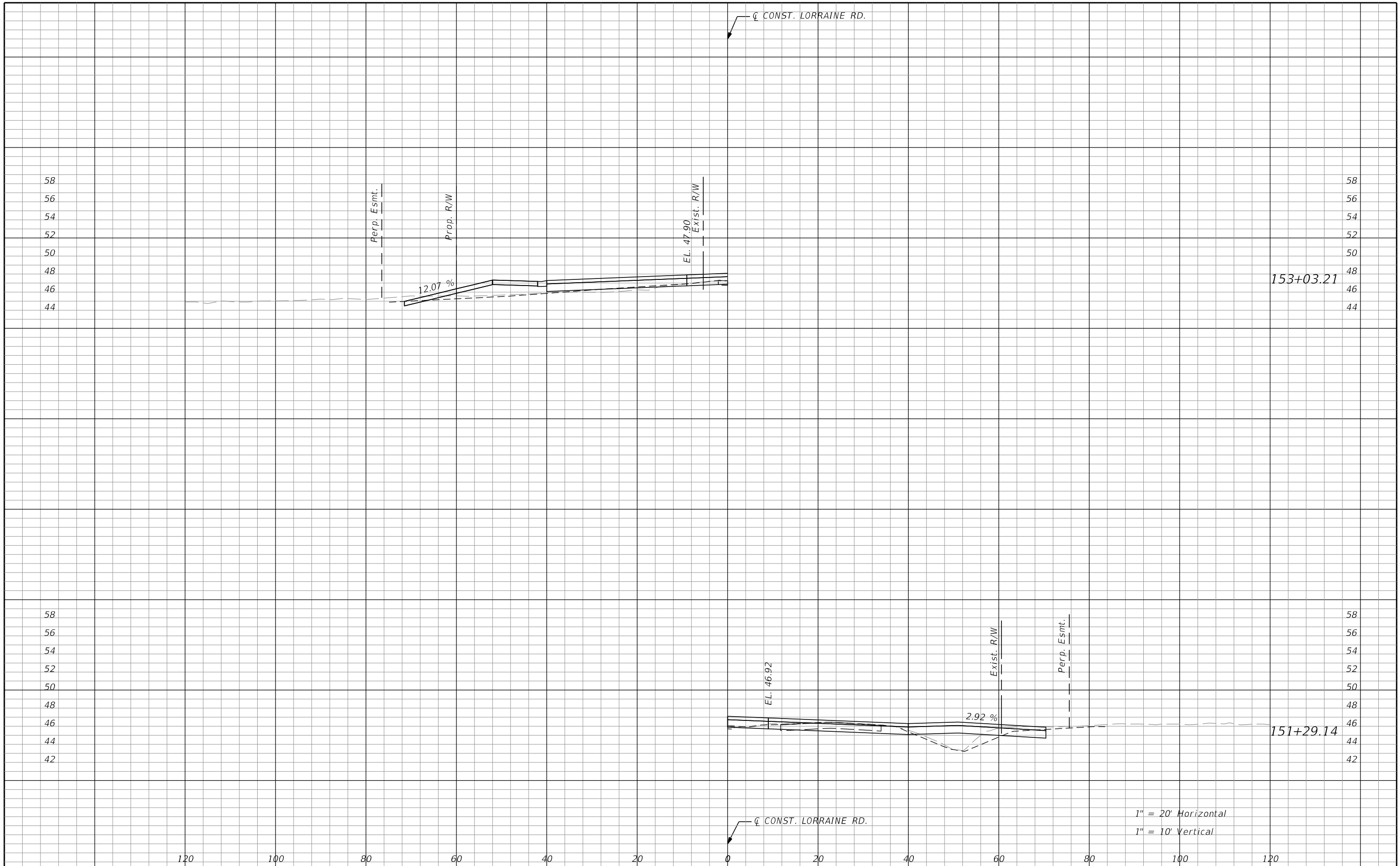
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1" = 10' Vertical

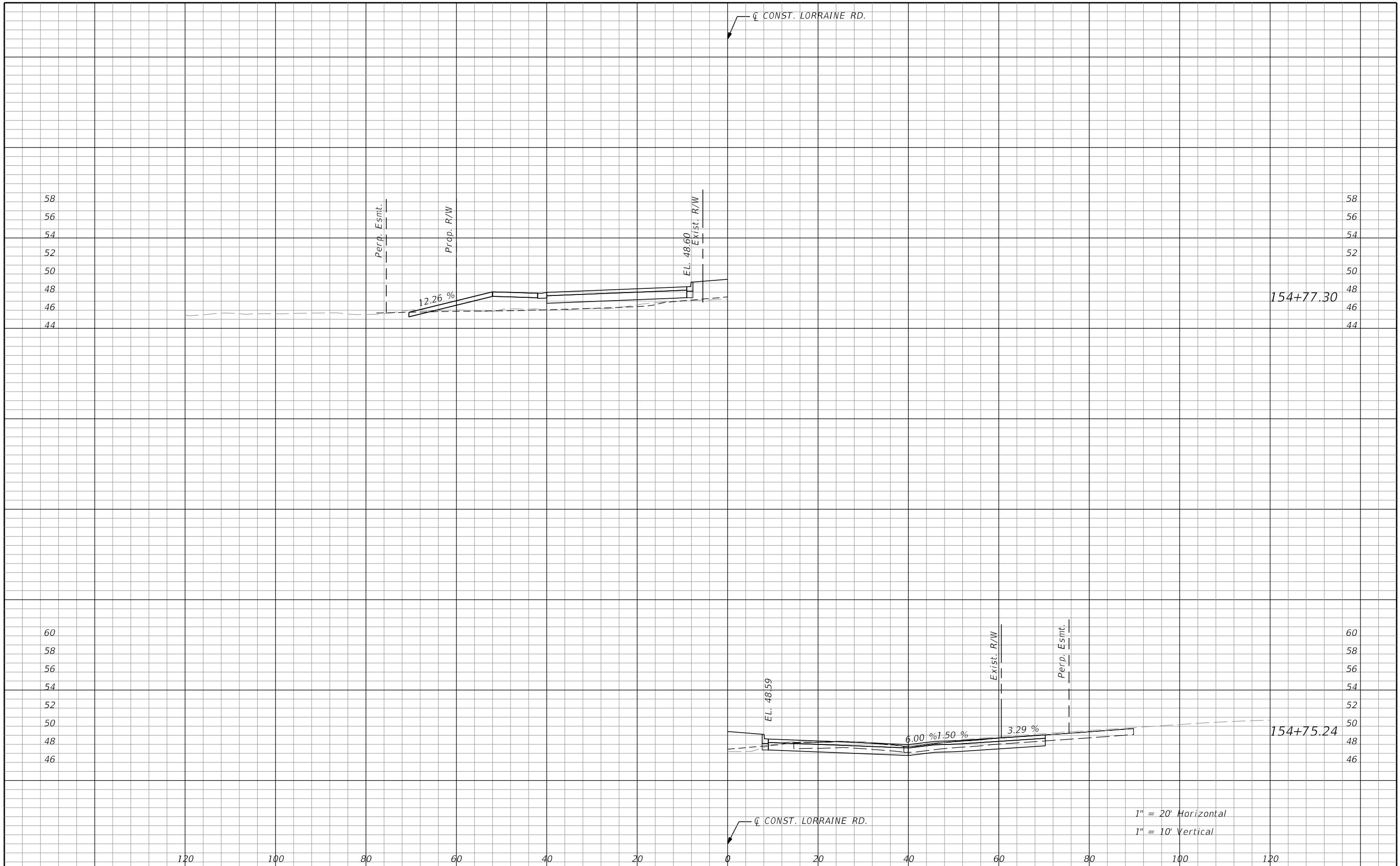
No.		REVISIONS		DATE	BY	SCALE AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN	DRIVEWAY HALF SECTION	SHEET NO. 238
						CHECKED BY JLS		PROJECT NO. 6045662		FL. LICENSE NO. 78557		

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No.		REVISIONS		DATE	BY	SCALE	AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE	11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	BRIAN L. ZIMMERMAN	DRIVEWAY HALF SECTION	SHEET NO.	239
						DESIGNED BY	BLZ		PROJECT NO.	6045662		FL. LICENSE NO.	78557			
						DRAWN BY	JMA									
						CHECKED BY	JLS									

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

No.	REVISIONS	DATE	BY

SCALE AS NOTED

DESIGNED BY BLZ

DRAWN BY JMA

CHECKED BY JLS

HDR
HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE 11/2022

PROJECT NO. 6045662

Manatee County
FLORIDA

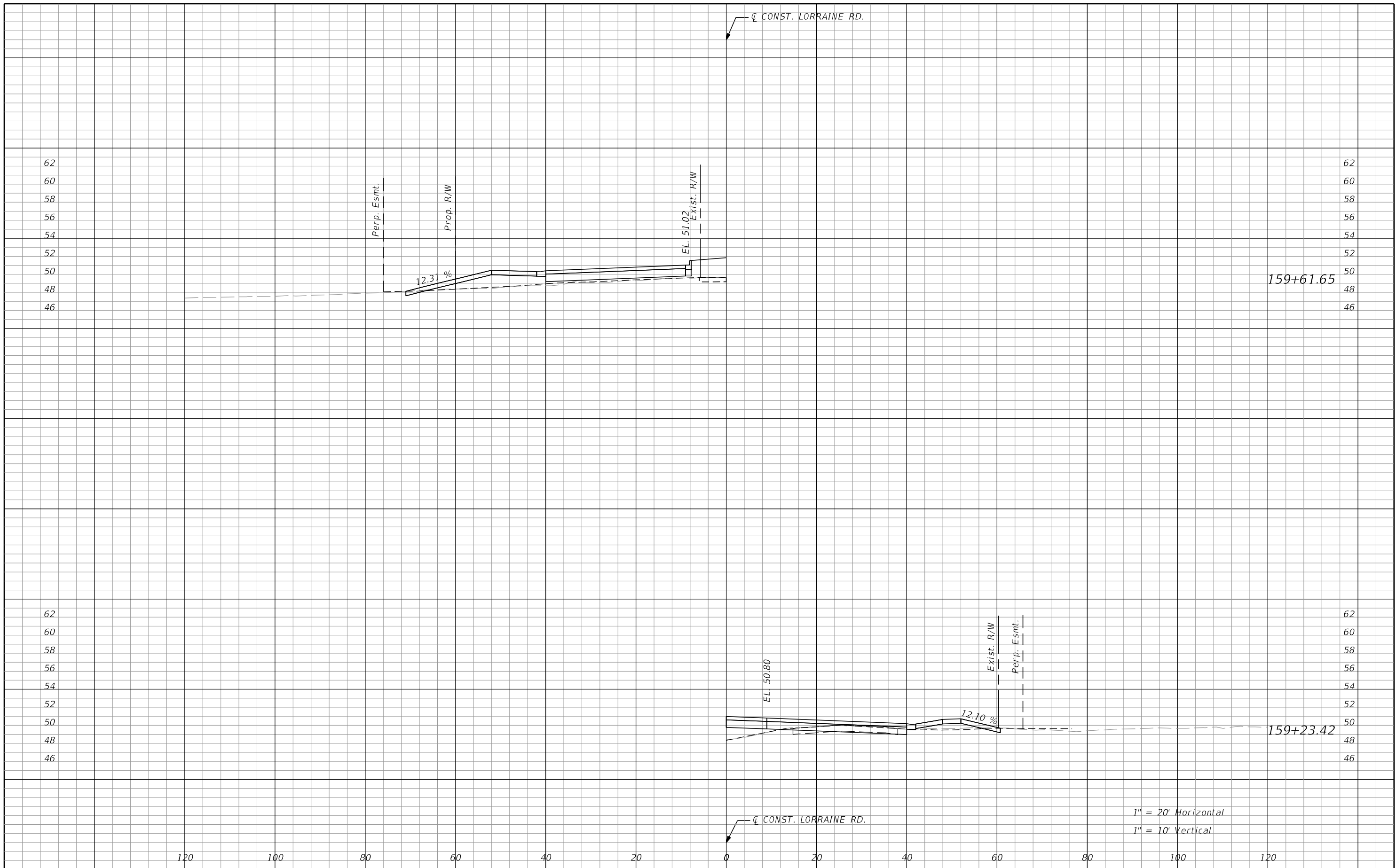
MANATEE COUNTY PUBLIC WORKS

DESIGN ENGINEER
BRIAN L. ZIMMERMAN
FL. LICENSE NO. 78557

DRIVEWAY HALF SECTION

SHEET NO. 240

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



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

SCALE AS NOTED	
DESIGNED BY	BLZ
DRAWN BY	JMA
CHECKED BY	JLS
No.	REVISIONS
	DATE
	BY



HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6045662



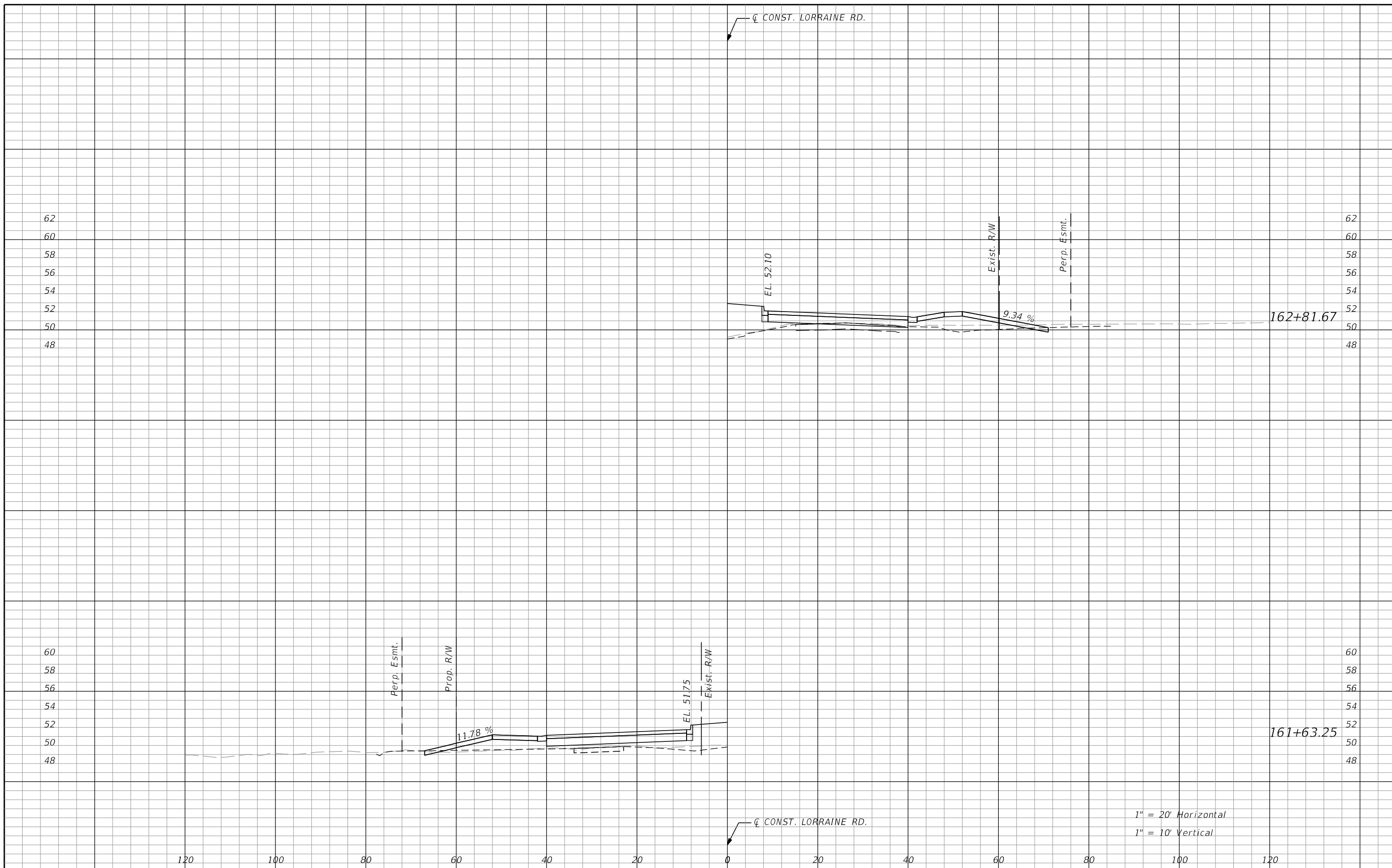
MANATEE COUNTY PUBLIC WORKS

DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557



DRIVEWAY HALF SECTION

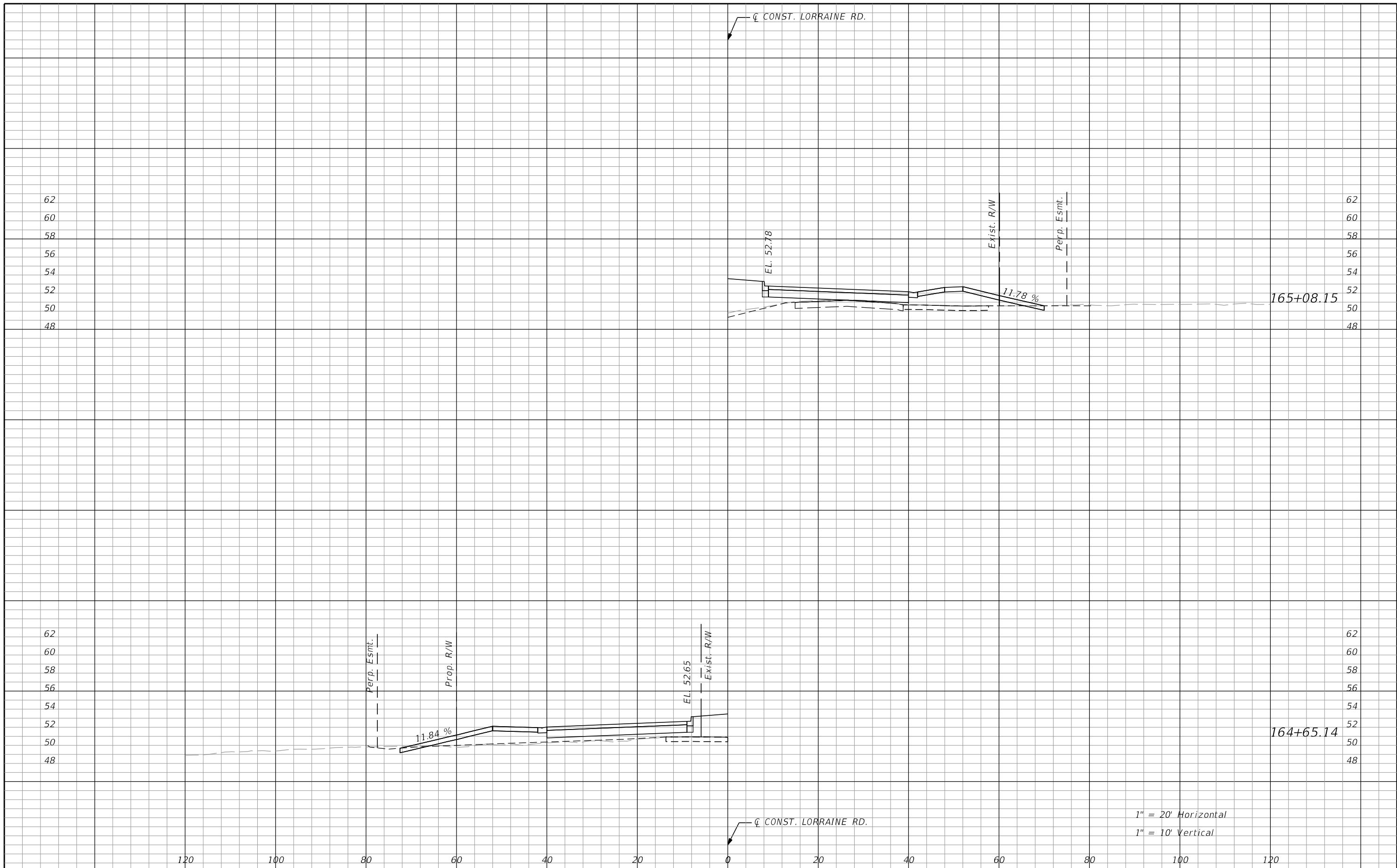
SHEET NO.	241
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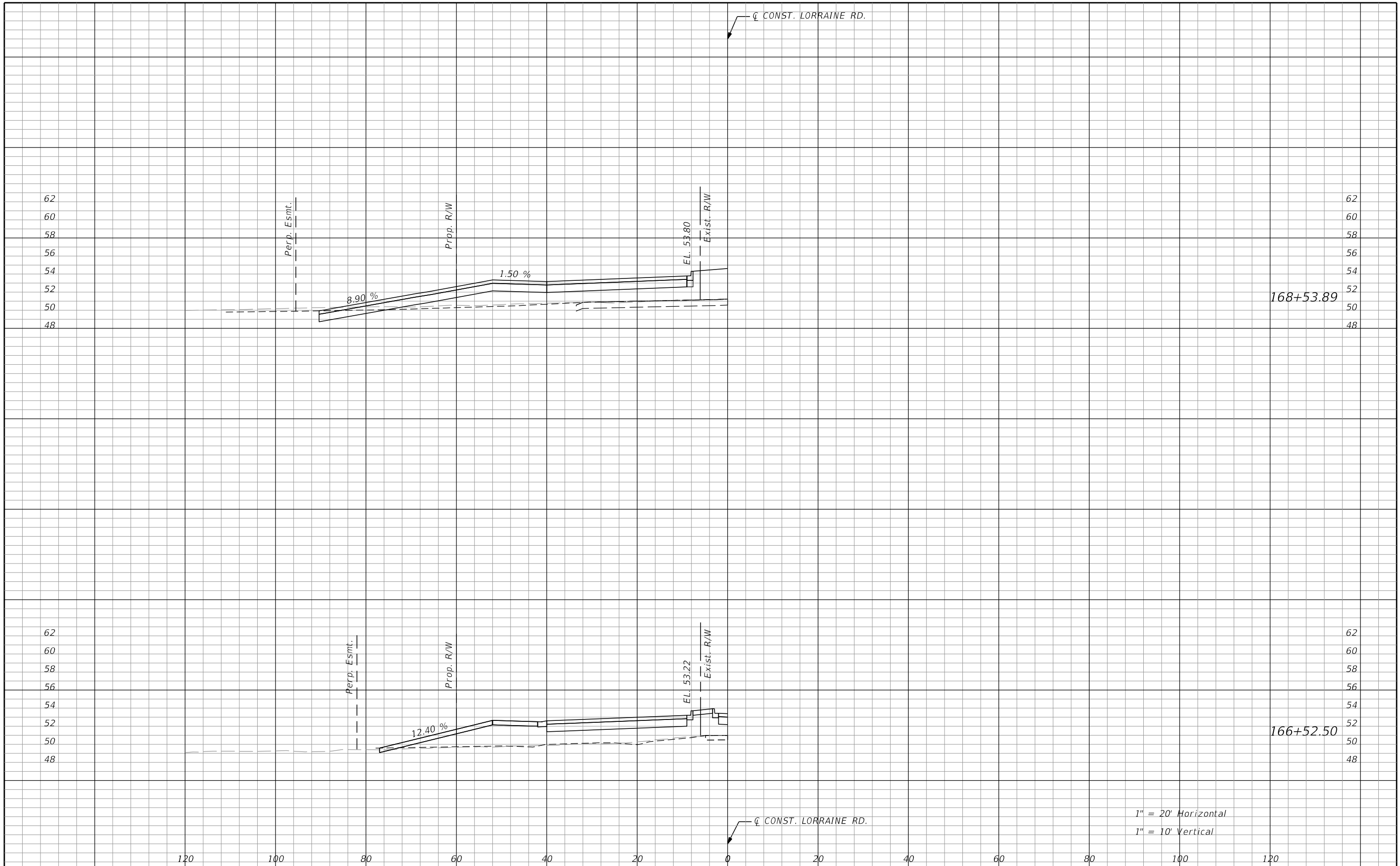
1" = 20' Horizontal
1" = 10' Vertical

No.		REVISIONS		DATE	BY	SCALE AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	DRIVEWAY HALF SECTION	SHEET NO. 242	
						CHECKED BY JLS		PROJECT NO. 6045662					
						DRAWN BY JMA							
						DESIGNED BY BLZ							



No.		REVISIONS		DATE	BY	SCALE AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	DRIVEWAY HALF SECTION	SHEET NO. 243	
						CHECKED BY JLS		PROJECT NO. 6045662					
						DRAWN BY JMA							
						DESIGNED BY BLZ							

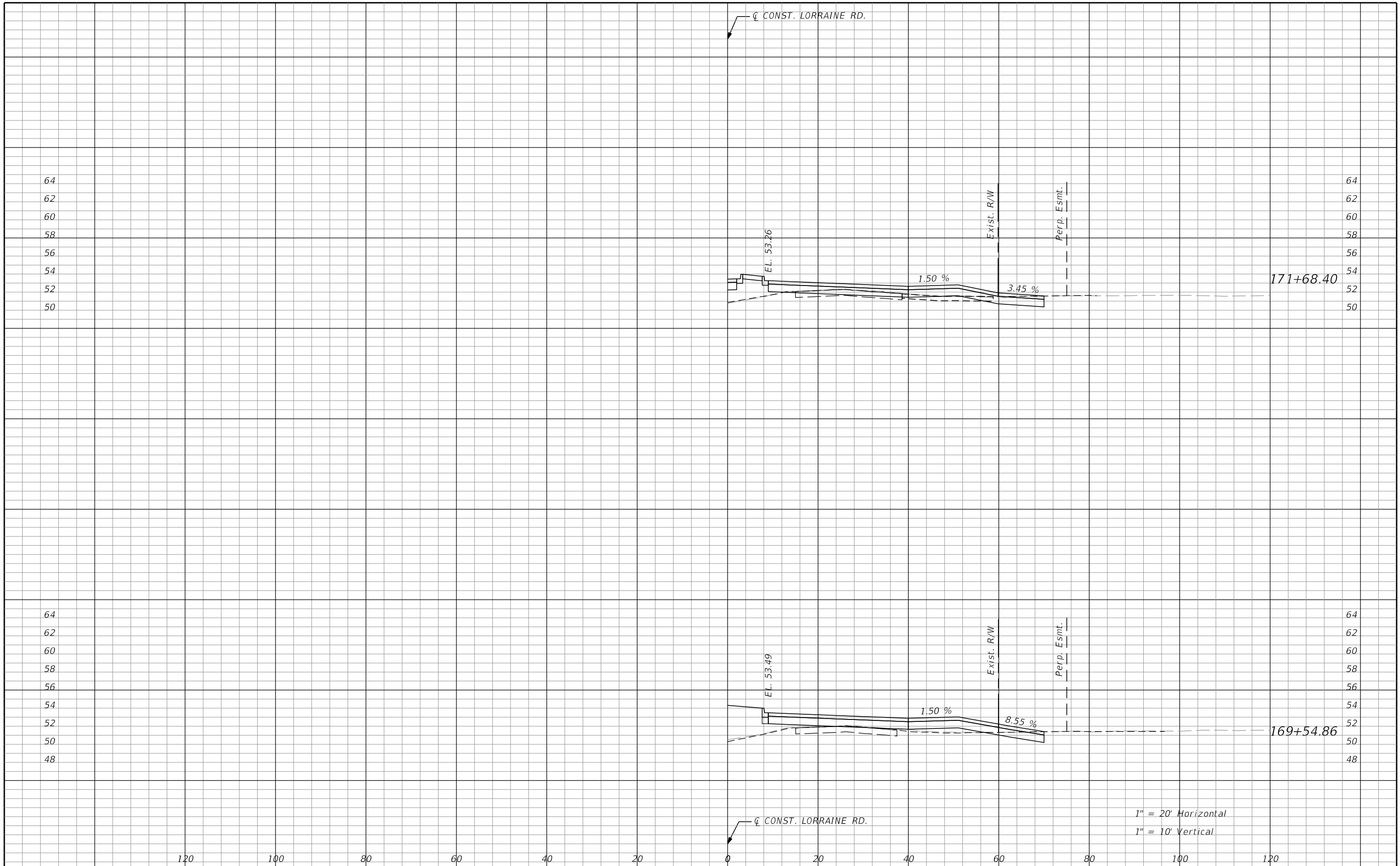
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 1" = 10' Vertical

No.		REVISIONS		DATE	BY	SCALE AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN	DRIVEWAY HALF SECTION	SHEET NO.
						CHECKED BY JLS		PROJECT NO. 6045662		FL. LICENSE NO. 78557		244

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

No.	REVISIONS	DATE	BY

SCALE AS NOTED

DESIGNED BY BLZ

DRAWN BY JMA

CHECKED BY JLS

HDR
HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE 11/2022

PROJECT NO. 6045662

Manatee County
FLORIDA

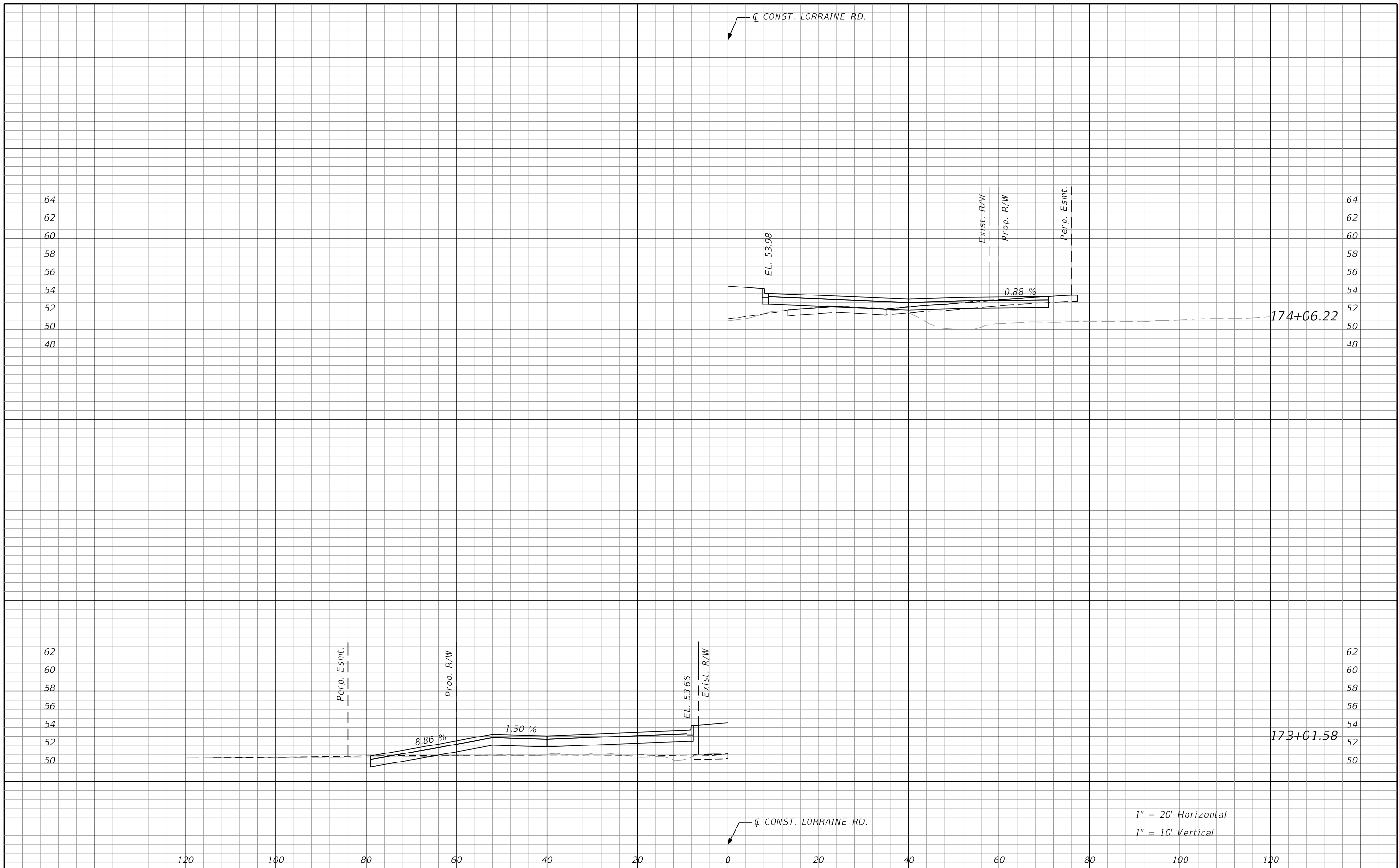
MANATEE COUNTY PUBLIC WORKS



DESIGN ENGINEER
BRIAN L. ZIMMERMAN
FL. LICENSE NO. 78557

DRIVEWAY HALF SECTION

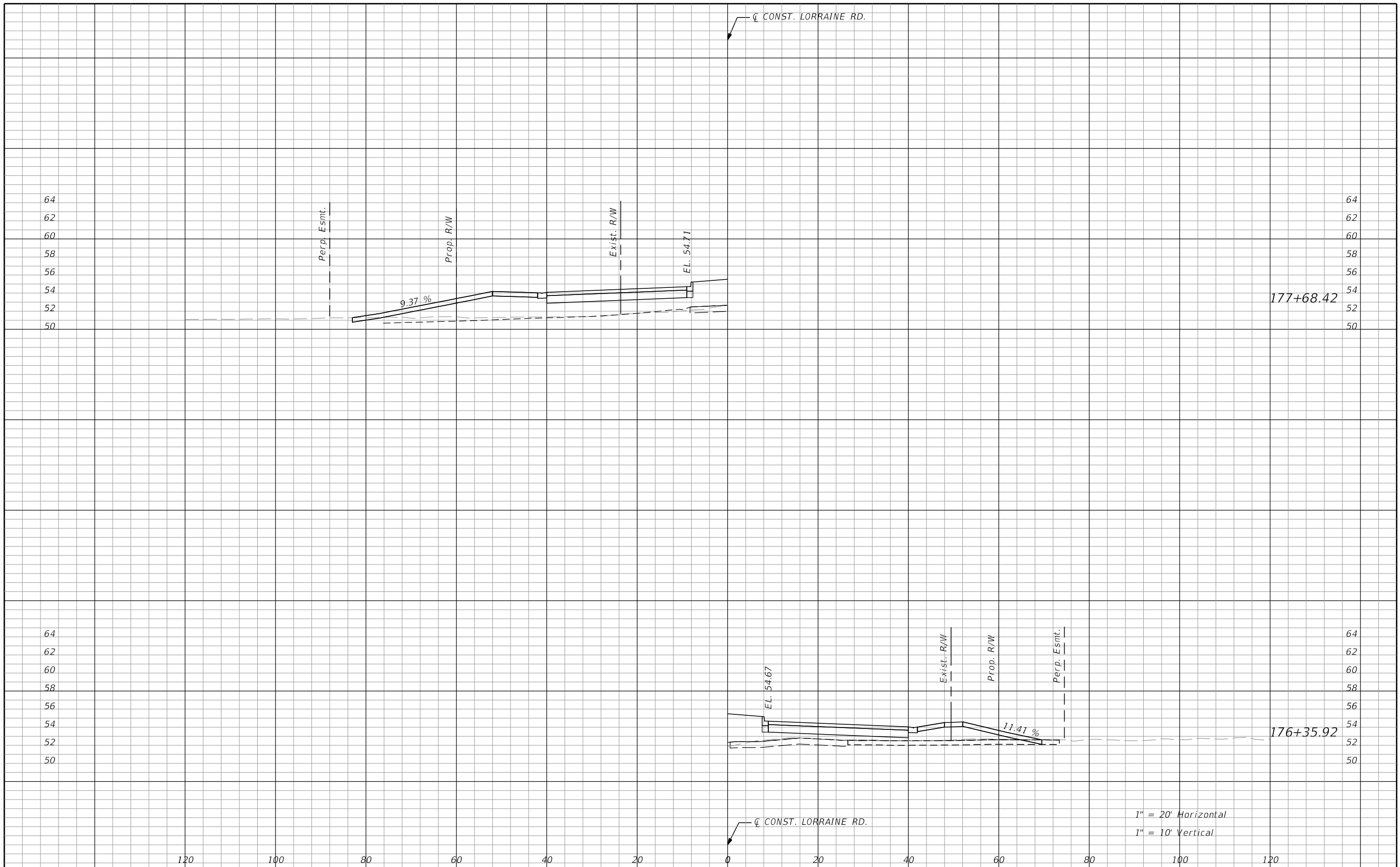
SHEET NO. 245

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No.		REVISIONS		DATE	BY	SCALE AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	DRIVEWAY HALF SECTION	SHEET NO. 246
						CHECKED BY JLS		PROJECT NO. 6045662				

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No.	REVISIONS	DATE	BY

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

SCALE AS NOTED
 DESIGNED BY BLZ
 DRAWN BY JMA
 CHECKED BY JLS
 DATE 11/2022
 PROJECT NO. 6045662

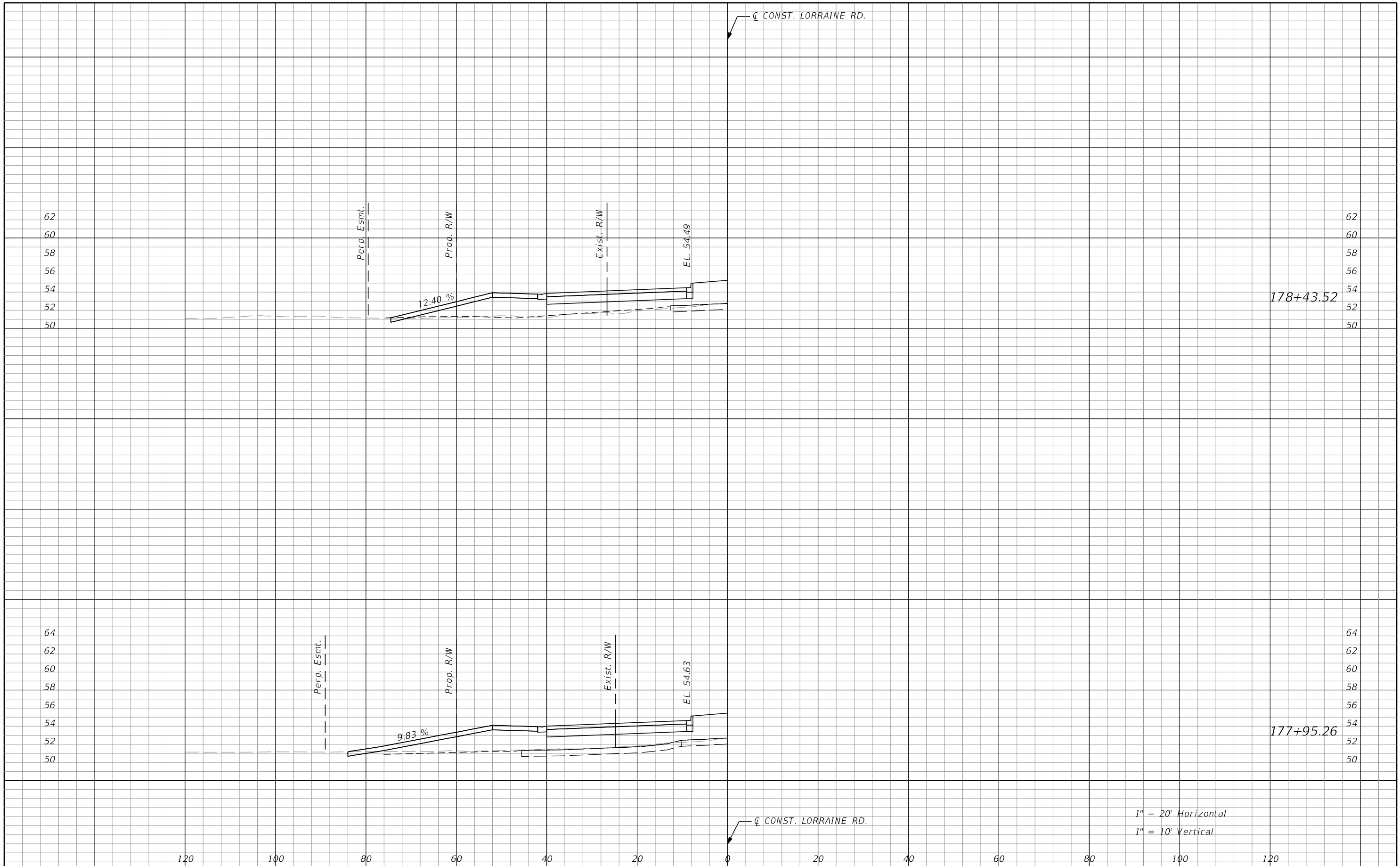
MANATEE COUNTY PUBLIC WORKS

DESIGN ENGINEER
 BRIAN L. ZIMMERMAN
 FL. LICENSE NO. 78557

DRIVEWAY HALF SECTION

SHEET NO.
247

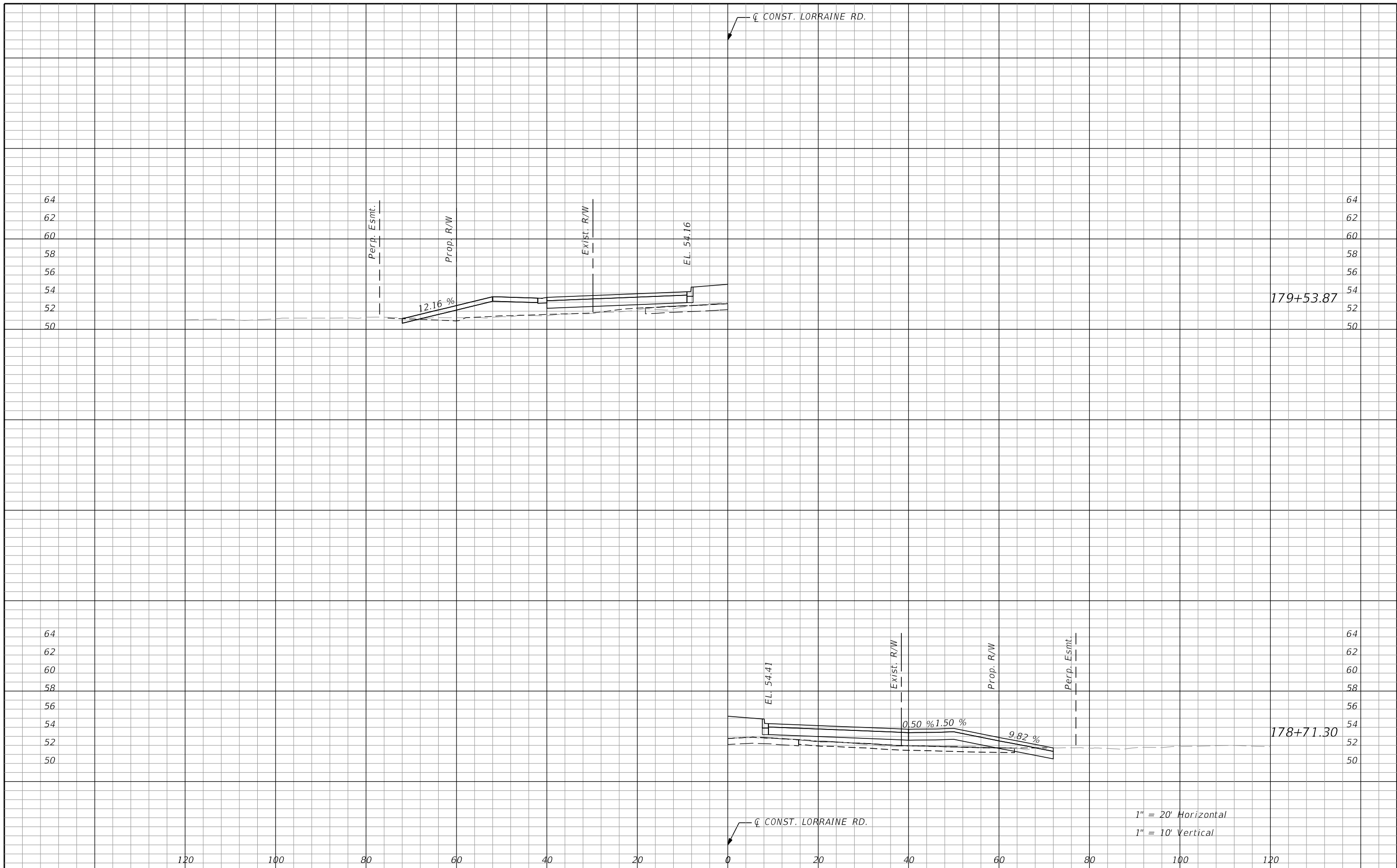
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1" = 20' Horizontal
1" = 10' Vertical

No.		REVISIONS		DATE	BY	SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS	HDR HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022 PROJECT NO. 6045662	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	DRIVEWAY HALF SECTION	SHEET NO. 248
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No.	REVISIONS	DATE	BY

SCALE AS NOTED

DESIGNED BY BLZ

DRAWN BY JMA

CHECKED BY JLS

HDR

HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE 11/2022

PROJECT NO. 6045662

Manatee County FLORIDA

MANATEE COUNTY PUBLIC WORKS

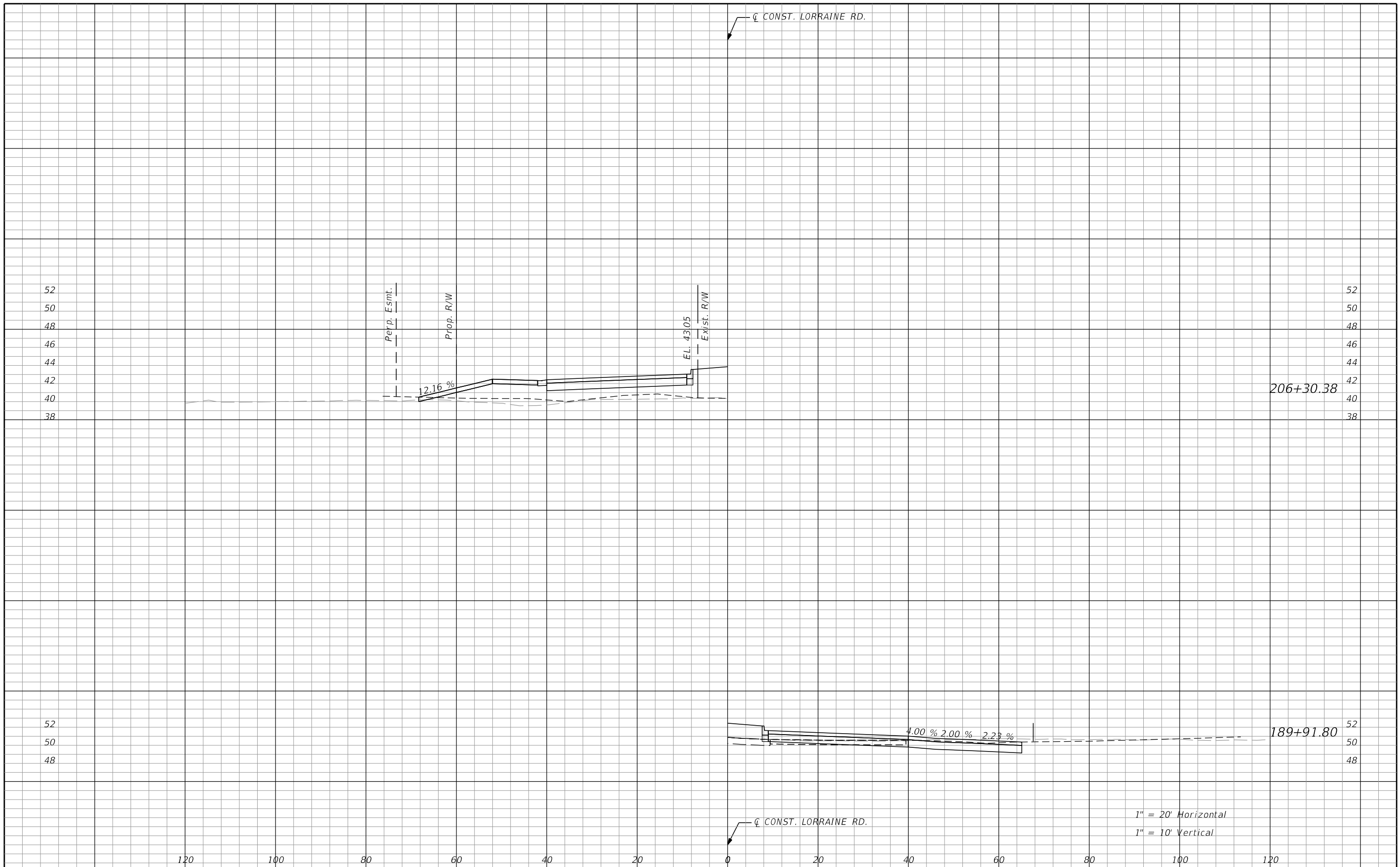
DESIGN ENGINEER BRIAN L. ZIMMERMAN



FL. LICENSE NO. 78557

DRIVEWAY HALF SECTION

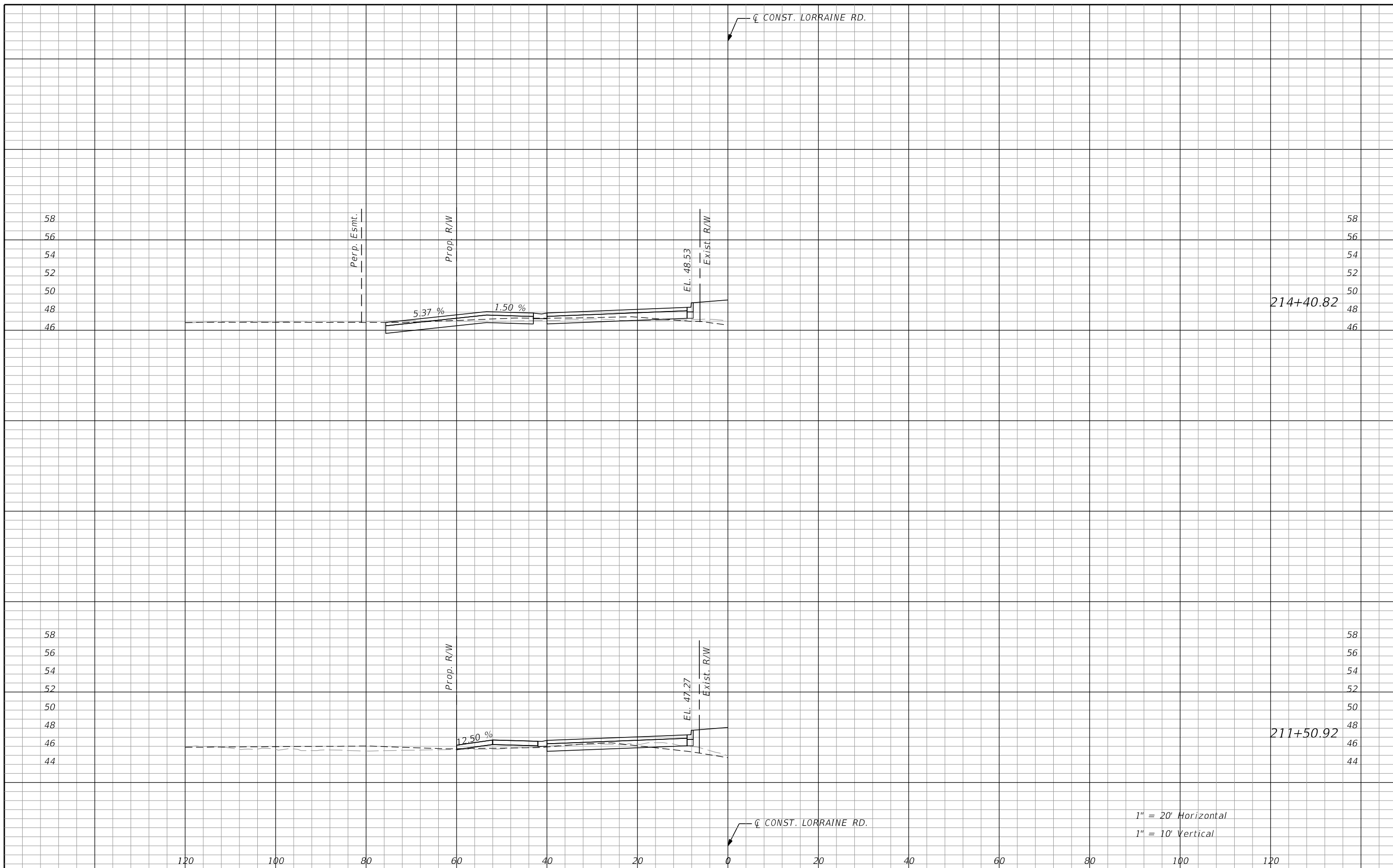
SHEET NO. 249

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No.		REVISIONS		DATE	BY	SCALE	AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE	11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	BRIAN L. ZIMMERMAN	DRIVEWAY HALF SECTION	SHEET NO.	250
						DESIGNED BY	BLZ		PROJECT NO.	6045662		FL. LICENSE NO.	78557			
						DRAWN BY	JMA									
						CHECKED BY	JLS									

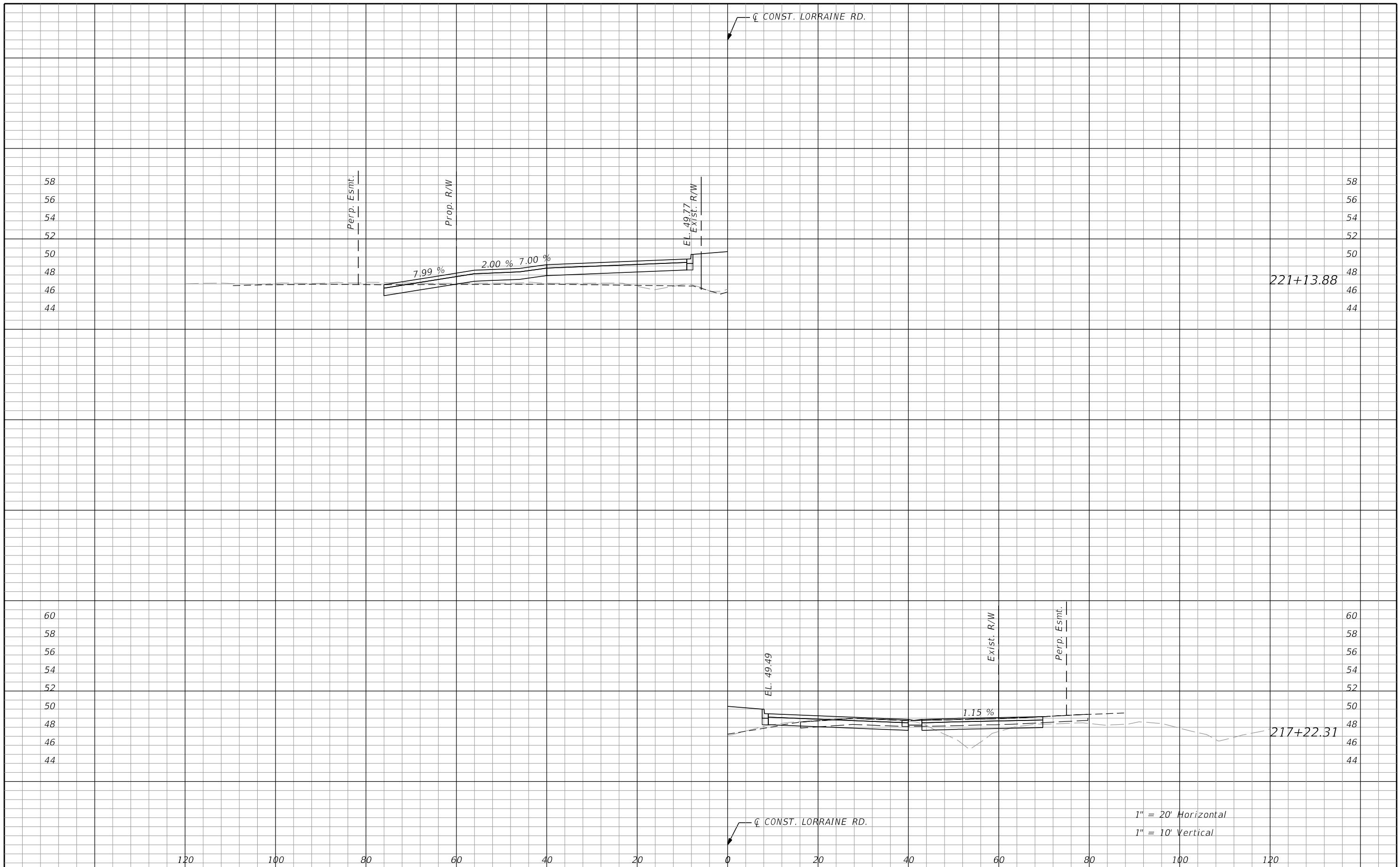
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1" = 20' Horizontal
1" = 10' Vertical

No.		REVISIONS		DATE	BY	SCALE	AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE	11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	BRIAN L. ZIMMERMAN	DRIVEWAY HALF SECTION	SHEET NO.	252
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						DRAWN BY	JMA									
						CHECKED BY	JLS									

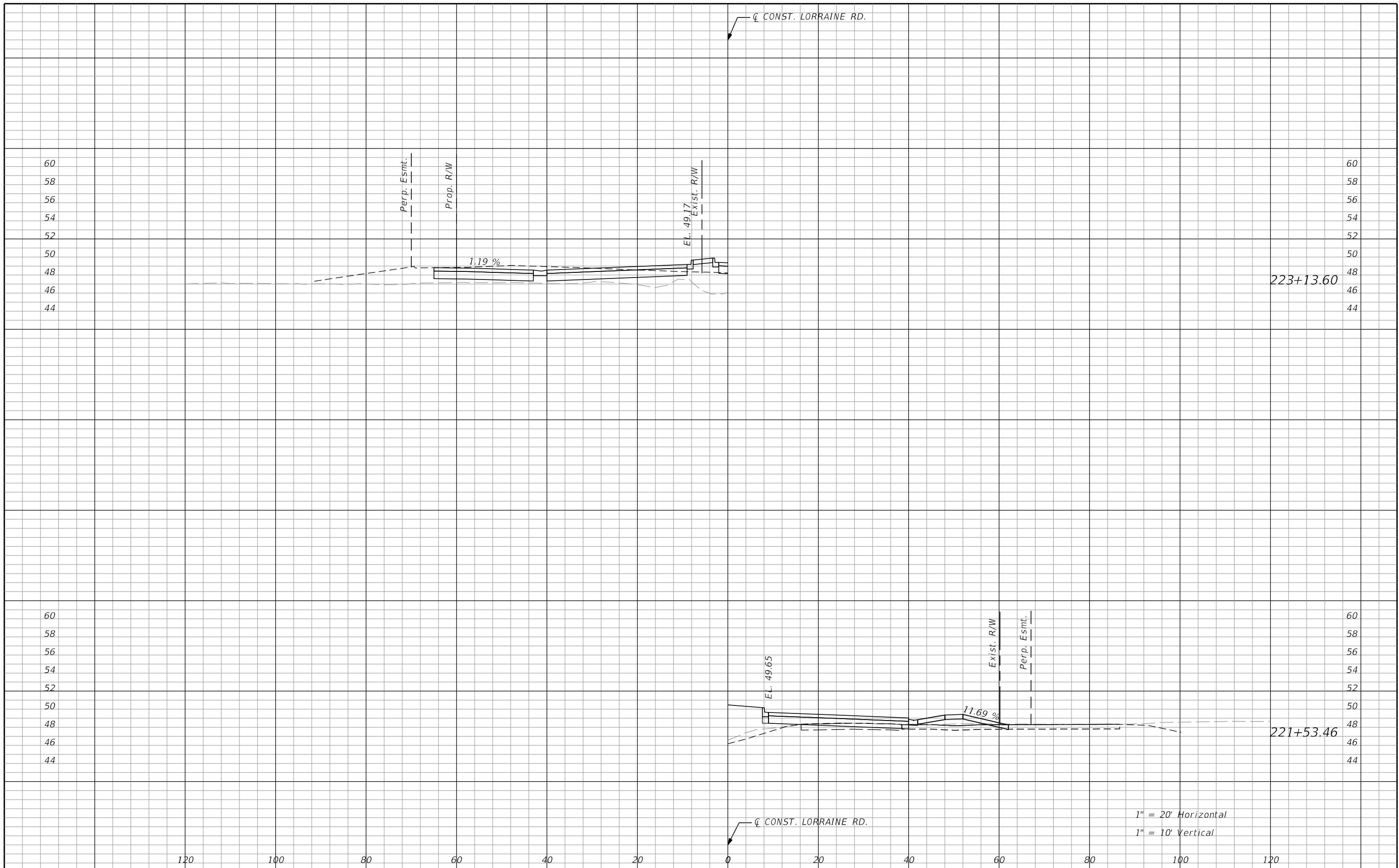
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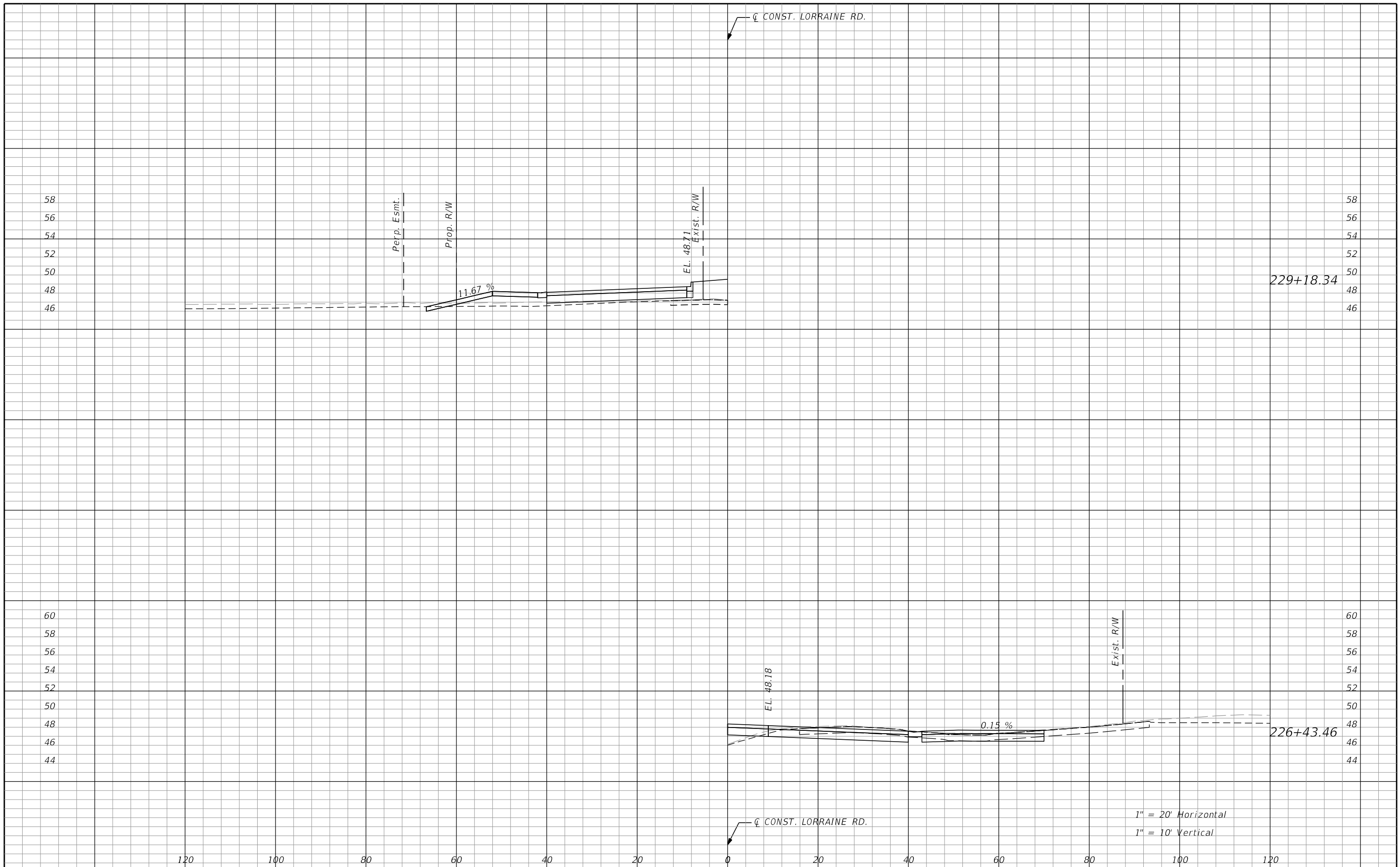
No.		REVISIONS		DATE	BY	SCALE	AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE	11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	BRIAN L. ZIMMERMAN	DRIVEWAY HALF SECTION	SHEET NO.	253
						DESIGNED BY	BLZ		PROJECT NO.	6045662		FL. LICENSE NO.	78557			
						DRAWN BY	JMA									
						CHECKED BY	JLS									

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No.		REVISIONS		DATE	BY	SCALE AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	DRIVEWAY HALF SECTION	SHEET NO. 254
						CHECKED BY JLS		PROJECT NO. 6045662				
						DRAWN BY JMA						
						DESIGNED BY BLZ						



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

SCALE AS NOTED	
DESIGNED BY	BLZ
DRAWN BY	JMA
CHECKED BY	JLS
No.	REVISIONS
DATE	BY

HDR
HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE
11/2022

PROJECT NO.
6045662

Manatee County
FLORIDA

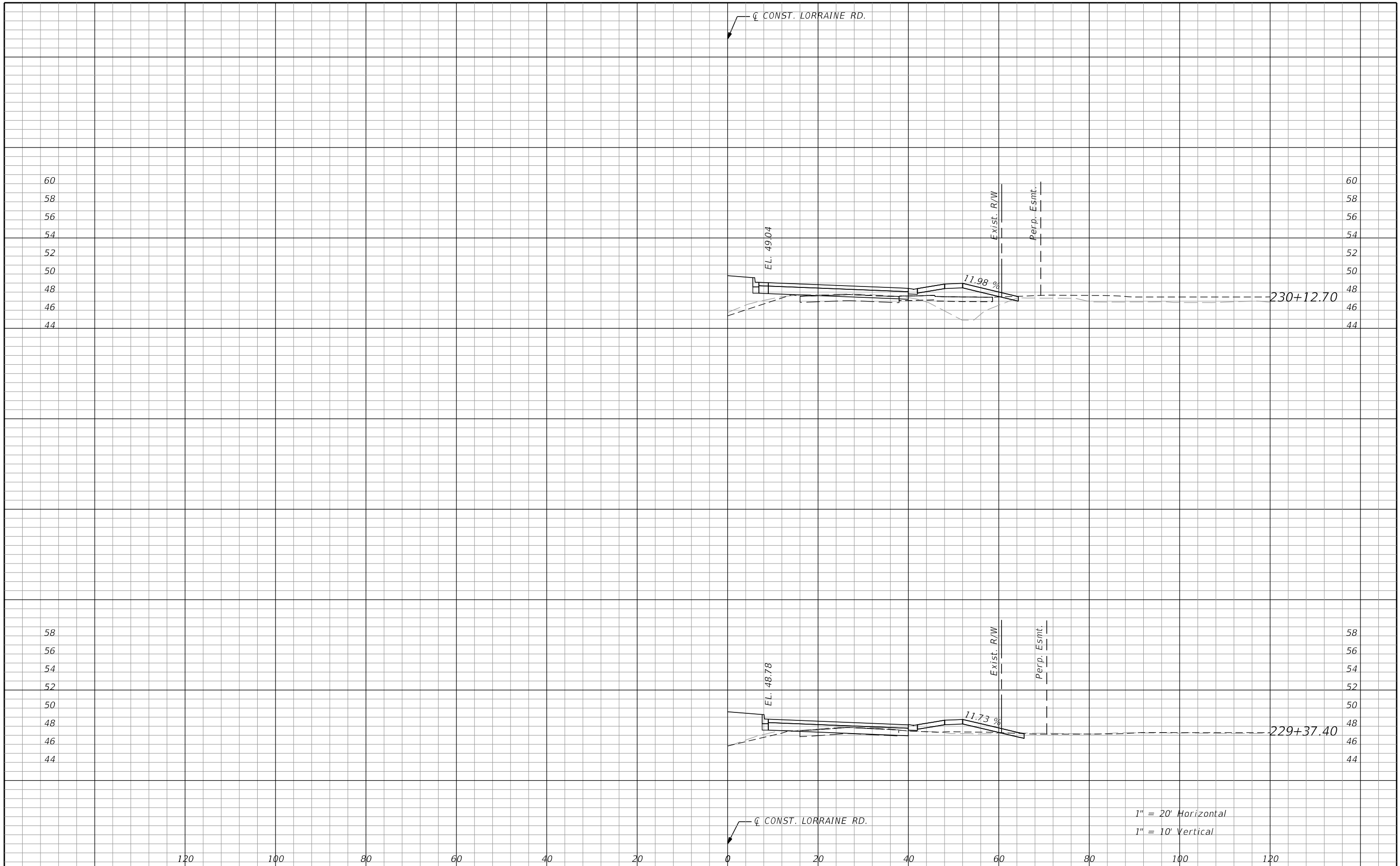
**MANATEE COUNTY
PUBLIC WORKS**

DESIGN ENGINEER
BRIAN L. ZIMMERMAN
 FL. LICENSE NO.
78557

DRIVEWAY HALF SECTION

SHEET NO.
256

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SCALE	AS NOTED		
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DRAWN BY	JMA		
CHECKED BY	JLS		
No.	REVISIONS	DATE	BY

HDR
HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE
11/2022
PROJECT NO.
6045662



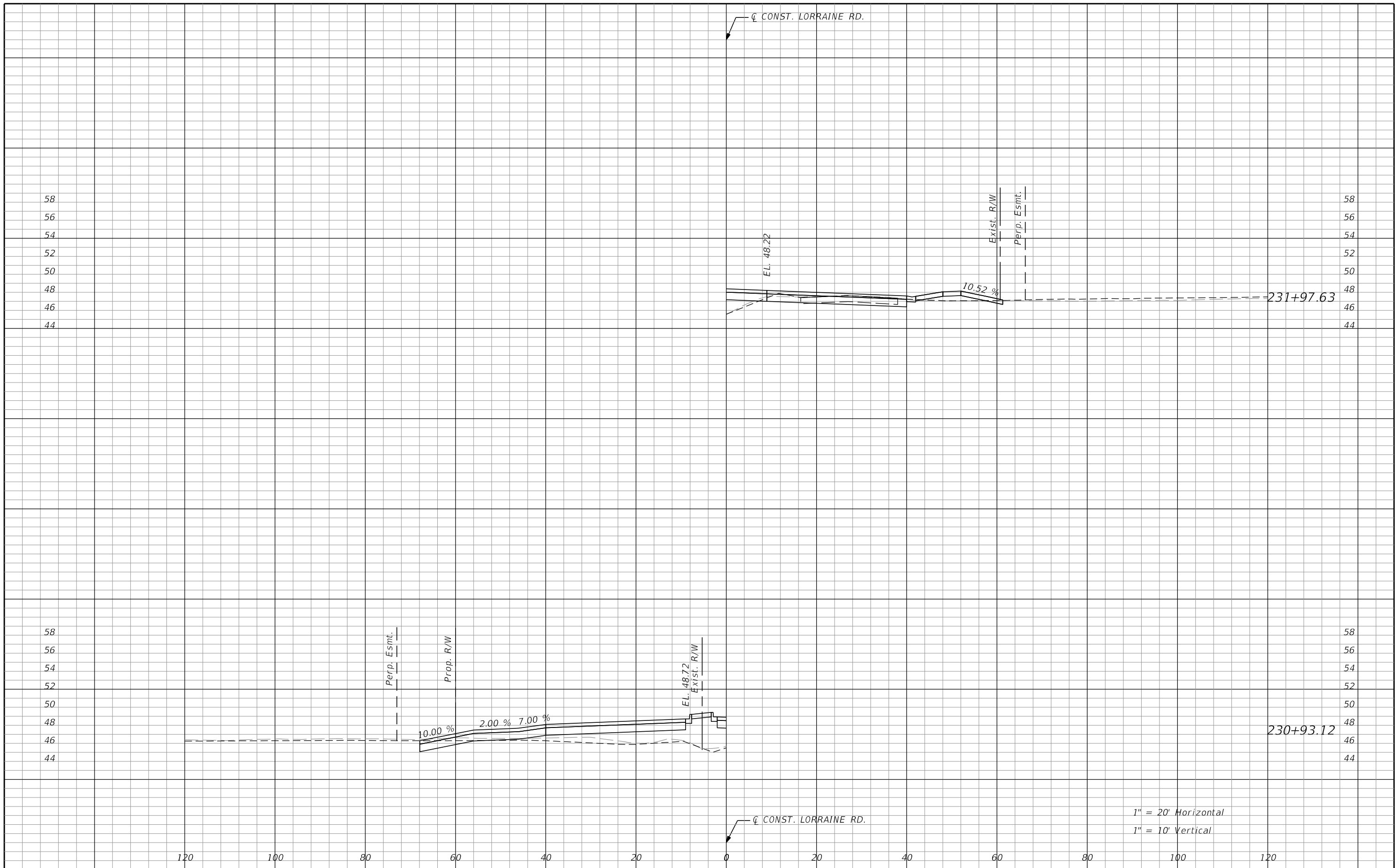
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
BRIAN L. ZIMMERMAN
FL. LICENSE NO.
78557

DRIVEWAY HALF SECTION

SHEET NO.
257

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SCALE	AS NOTED		
DESIGNED BY	BLZ		
DRAWN BY	JMA		
CHECKED BY	JLS		
No.	REVISIONS	DATE	BY

HDR
HDR ENGINEERING, INC.
4830 W KENNEDY BLVD, SUITE 400
TAMPA, FL 33609

DATE
11/2022
PROJECT NO.
6045662

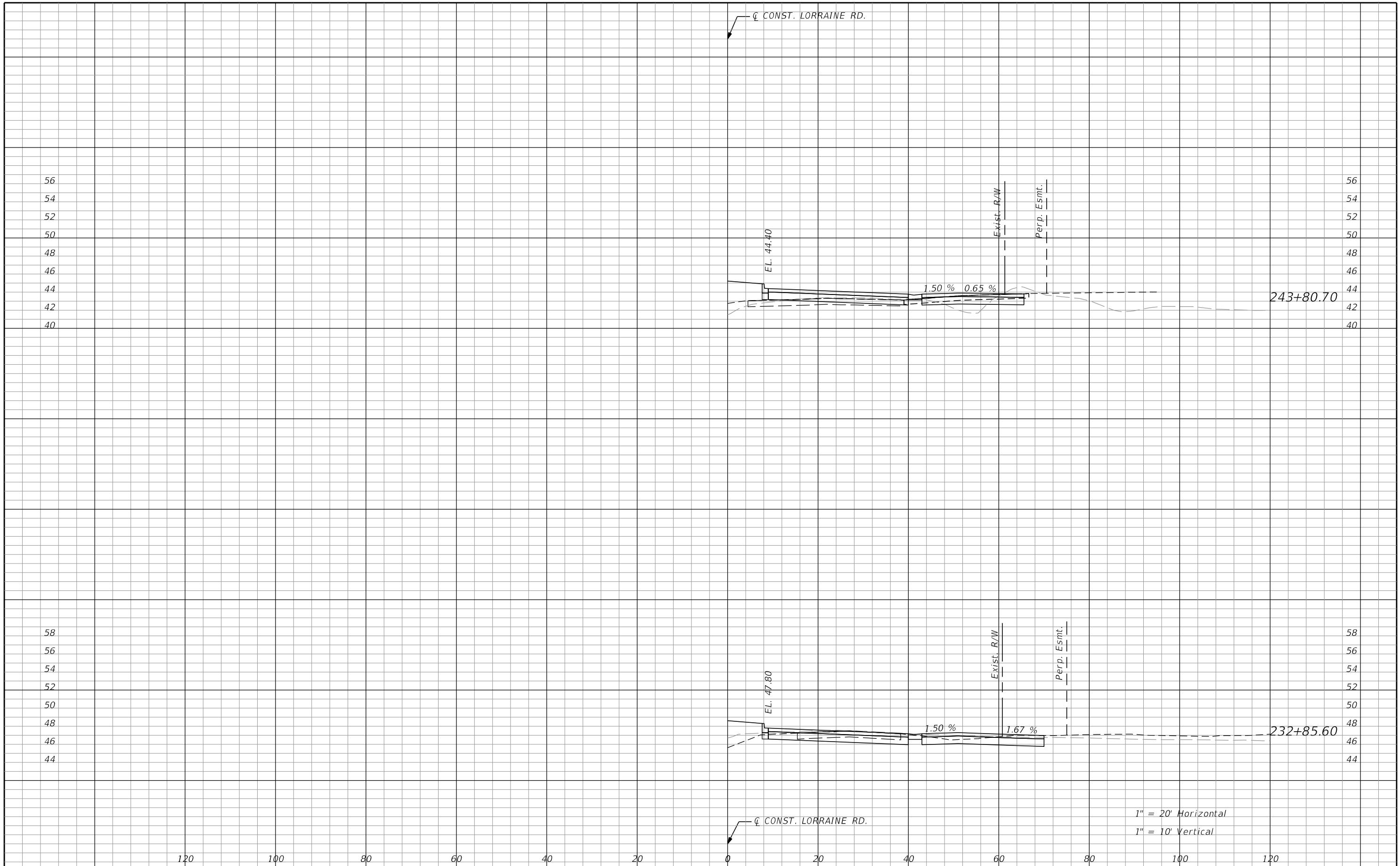
Manatee County
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
BRIAN L. ZIMMERMAN
FL. LICENSE NO.
78557



DRIVEWAY HALF SECTION

SHEET NO.
258

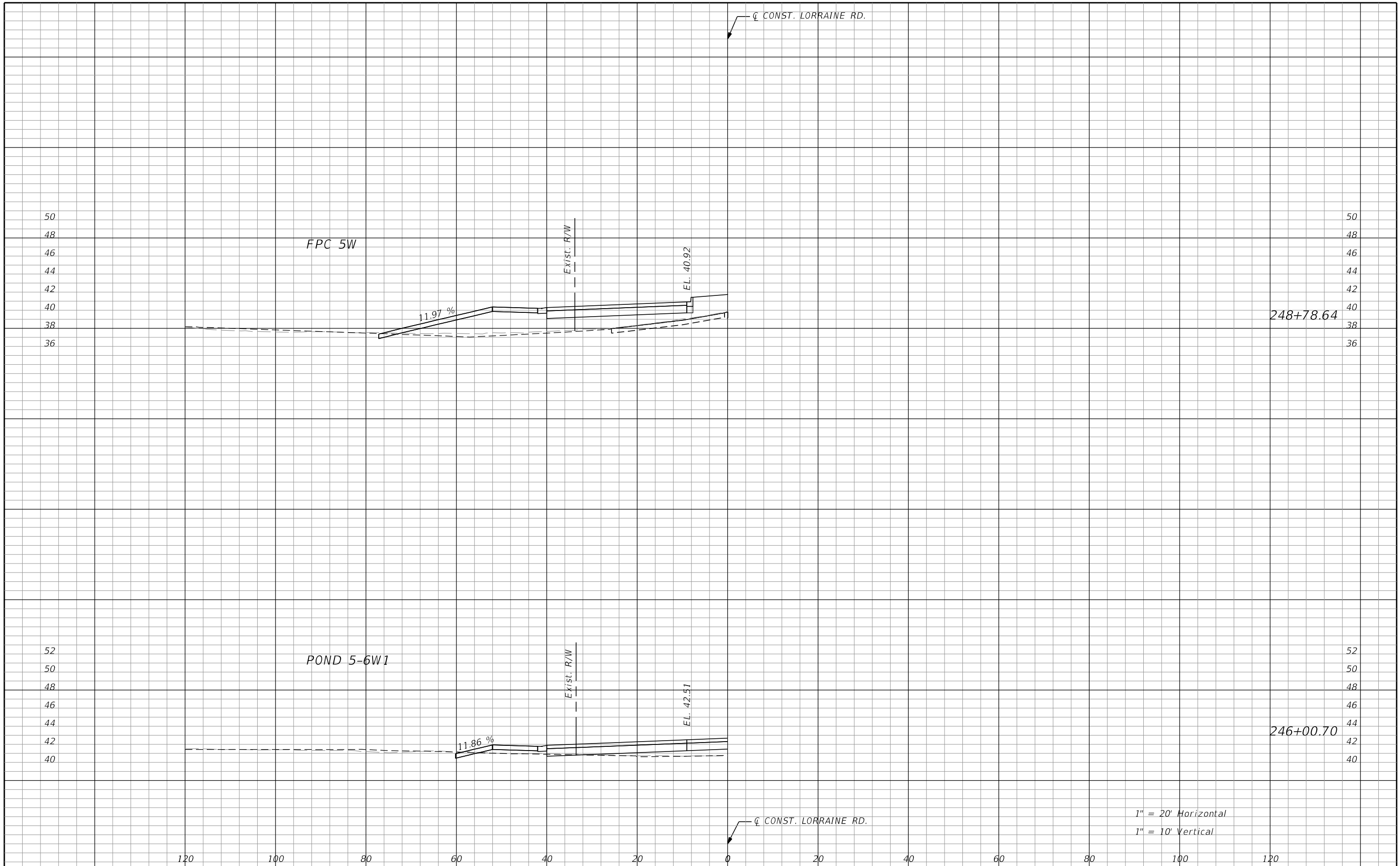
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SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS		 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557	DRIVEWAY HALF SECTION	SHEET NO. 259
PROJECT NO. 6045662	No. REVISIONS DATE BY						

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248+78.64

246+00.70

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SCALE	AS NOTED		
DESIGNED BY	BLZ		
DRAWN BY	JMA		
CHECKED BY	JLS		
No.	REVISIONS	DATE	BY

HDR
 HDR ENGINEERING, INC.
 4830 W KENNEDY BLVD, SUITE 400
 TAMPA, FL 33609

DATE	11/2022
PROJECT NO.	6045662



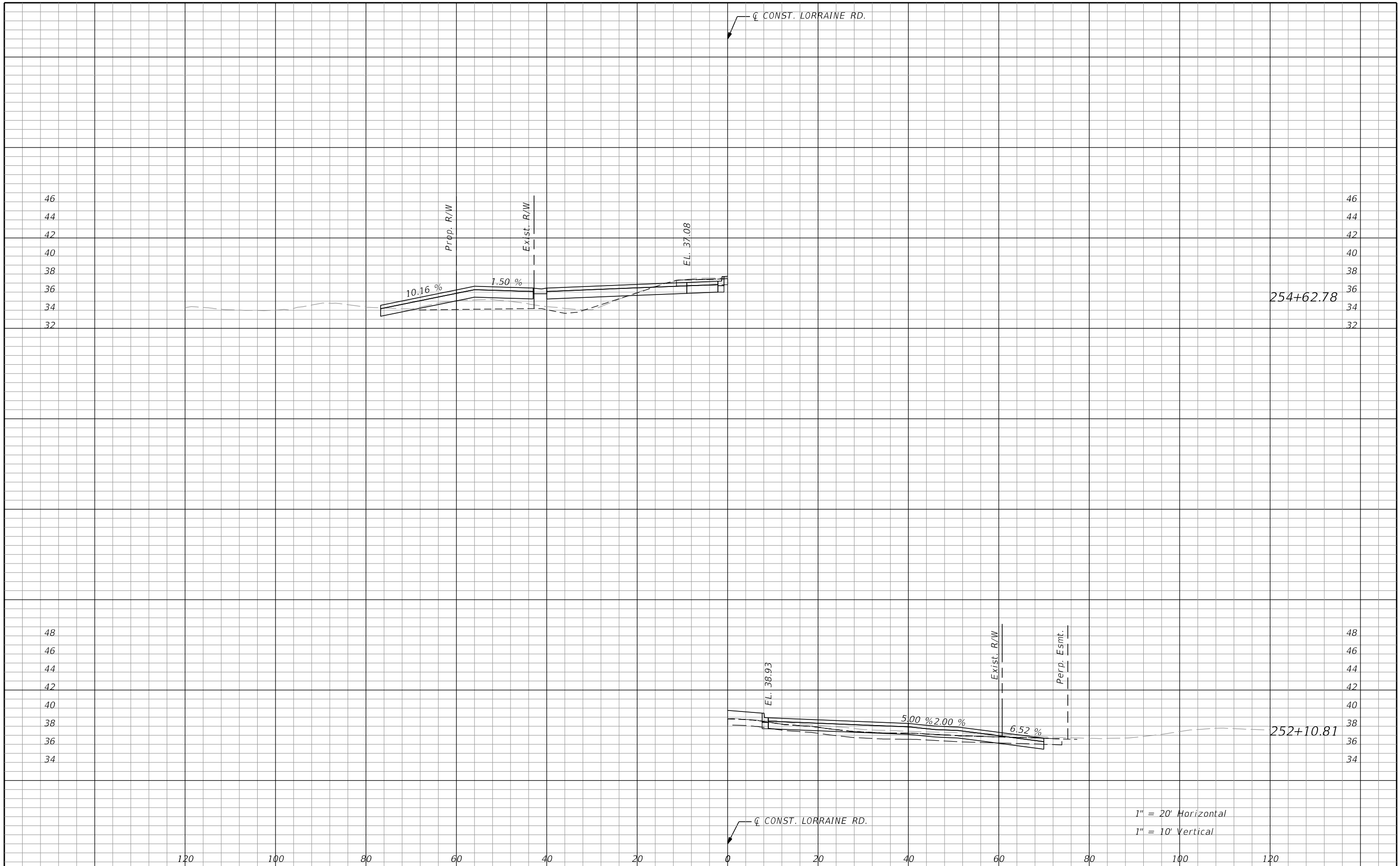
MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER	BRIAN L. ZIMMERMAN
FL. LICENSE NO.	78557



DRIVEWAY HALF SECTION

SHEET NO.	260
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No.		REVISIONS		DATE	BY	SCALE	AS NOTED	 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE	11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER	BRIAN L. ZIMMERMAN	DRIVEWAY HALF SECTION	SHEET NO.	261
						DESIGNED BY	BLZ		PROJECT NO.	6045662		FL. LICENSE NO.	78557			
						DRAWN BY	JMA									
						CHECKED BY	JLS									

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TRAFFIC CONTROL GENERAL NOTES:

1. THE EXISTING POSTED SPEED SHALL BE MAINTAINED FOR THE DURATION OF THE PROJECT.
2. MAINTENANCE OF TRAFFIC SHALL FOLLOW FDOT STANDARD PLANS NOS. 102-600, 102-602, AND 102-603, AS SPECIFIED IN THE CONSTRUCTION PHASING NOTES AND OTHER INDICES AS APPLICABLE.
3. ACCESS TO ADJACENT PROPERTIES AND SIDE STREETS SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
4. THE COST OF THE MAINTENANCE OF TRAFFIC OPERATIONS SHALL BE PAID FOR UNDER THE LUMP SUM PAY ITEM UNLESS A PAY ITEM IS PROVIDED.
5. SUFFICIENT TRAVEL WAYS SHALL BE MAINTAINED TO PROVIDE INGRESS AND EGRESS AS WELL AS SAFE BARRICADES TO ALL PROPERTIES WITHIN THE PROJECT AREA AT ALL TIMES.
6. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE COUNTY TO RESTRICT OR REMOVE LANE CLOSURES OR CHANNELIZATIONS SHOWN IN THE PLANS. RESPONSE AND ADJUSTMENTS AS DIRECTED BY THE COUNTY SHALL BE PROVIDED WITHOUT DELAY UNDER THESE CONDITIONS. THE RESPONSE SHALL BE WITHIN TIME CONSTRAINTS OUTLINED IN THE STANDARD SPECIFICATIONS UPON NOTIFICATION BY THE COUNTY TO ANY REQUESTS FOR CORRECTION, IMPROVEMENT, OR MODIFICATION TO THE TRAFFIC CONTROL PLAN AND/OR DEVICES. ALL COSTS SHALL BE INCLUDED IN THE BID PRICE FOR MAINTENANCE OF TRAFFIC.
7. COORDINATE TRAFFIC CONTROL PHASING WITH CONSTRUCTION OF SR 64 ROUNDABOUT (FDOT FPID 196022-6-52-01).
7. TEMPORARY DRAINAGE AND EROSION CONTROL FACILITIES SHALL BE INSTALLED AND MAINTAINED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE COUNTY. POSITIVE DRAINAGE OFF THE TRAVELED ROADWAY SHALL BE MAINTAINED AT ALL TIMES.
8. FOR SIDE STREET INTERSECTIONS, LANE CLOSURES SHALL BE LIMITED TO ONE LANE AT ALL TIMES EXCEPT FOR SPECIFIED DETOURS. AT A MINIMUM, ONE-LANE, TWO-WAY OPERATION SHALL BE MAINTAINED THROUGH THE USE OF FLAGGERS. TWO-LANE, TWO-WAY OPERATIONS SHALL BE MAINTAINED DURING PERIODS OF LANE CLOSURE RESTRICTIONS AND WHEN CONSTRUCTION ACTIVITIES ARE BEYOND THE LIMITS OF THE INTERSECTIONS.

TRAFFIC CONTROL PHASING NOTES:

PHASE 1
 THE INTENT OF PHASE 1 IS TO CONSTRUCT THE PROPOSED NORTHBOUND LORRAINE ROAD LANES FROM SOUTH OF 59 TH AVE TO NORTH OF RANGELAND PKWY (STA. 107+00 TO STA. 139+00 +/-) AND FROM SOUTH OF 44TH AVE TO SOUTH OF MILL CREEK BRIDGE (STA. 177+00 TO STA. 200+00 +/-). SEE TYPICAL SECTIONS ON THIS SHEET.

CONSTRUCT THE PROPOSED SOUTHBOUND LORRAINE ROAD LANES AS FROM NORTH OF RANGELAND PKWY TO SOUTH OF 44TH AVE (STA. 139+00 TO STA. 177+00 +/-) AND FROM SOUTH OF MILL CREEK BRIDGE TO SOUTH OF SR 64 (STA. 200+00 +/- TO STA. 257+24). SEE TYPICAL SECTION ON NEXT SHEET.

1. INSTALL ALL ADVANCED WARNING SIGNS AND TRAFFIC CONTROL DEVICES FOR MAINLINE AND SIDE STREETS PER FDOT INDICES 102-600, 102-602, AND 102-603.
2. INSTALL EROSION CONTROL DEVICES.
3. EXISTING TRAFFIC WILL REMAIN ON EXISTING PAVEMENT AND TEMPORARY WIDENING WITH CHANNELIZING DEVICES/BARRIER PROTECTION FROM WORK ZONE.
4. CONSTRUCT PROPOSED NORTHBOUND / SOUTHBOUND LANES AND SIDEWALK.
5. CONSTRUCT NECESSARY TRANSITIONS WITH TEMPORARY PAVEMENT.

PHASE 2
 THE INTENT OF PHASE 2 IS TO CONSTRUCT THE PROPOSED SOUTHBOUND LORRAINE ROAD LANES FROM SOUTH OF 59 TH AVE TO NORTH OF RANGELAND PKWY (STA. 107+00 TO STA. 139+00 +/-) AND FROM SOUTH OF 44TH AVE TO SOUTH OF MILL CREEK BRIDGE (STA. 177+00 TO STA. 200+00 +/-). SEE TYPICAL SECTIONS ON THIS SHEET.

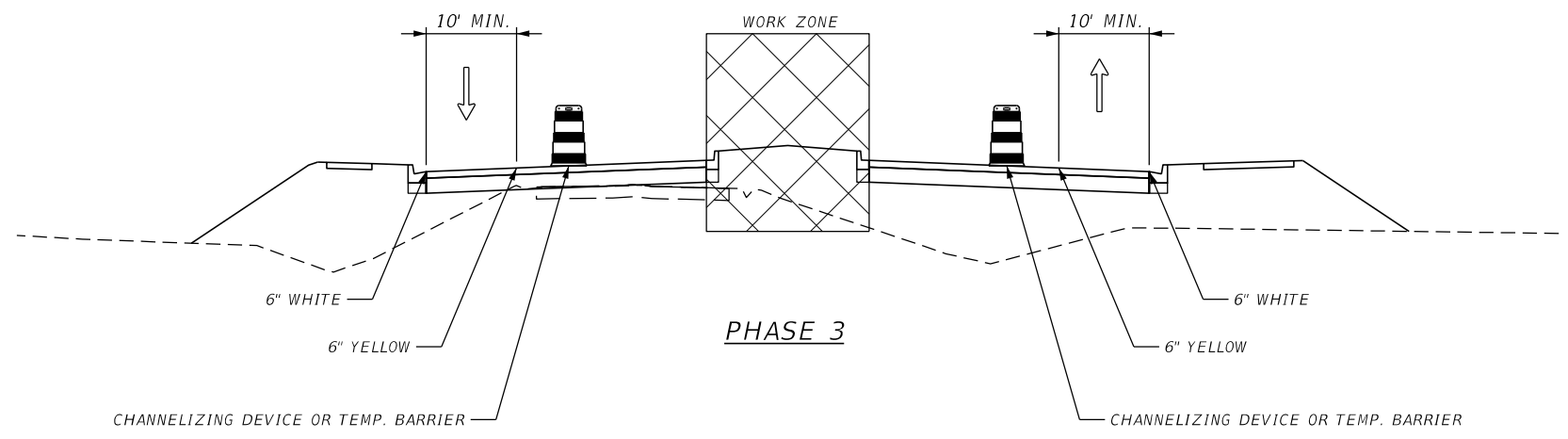
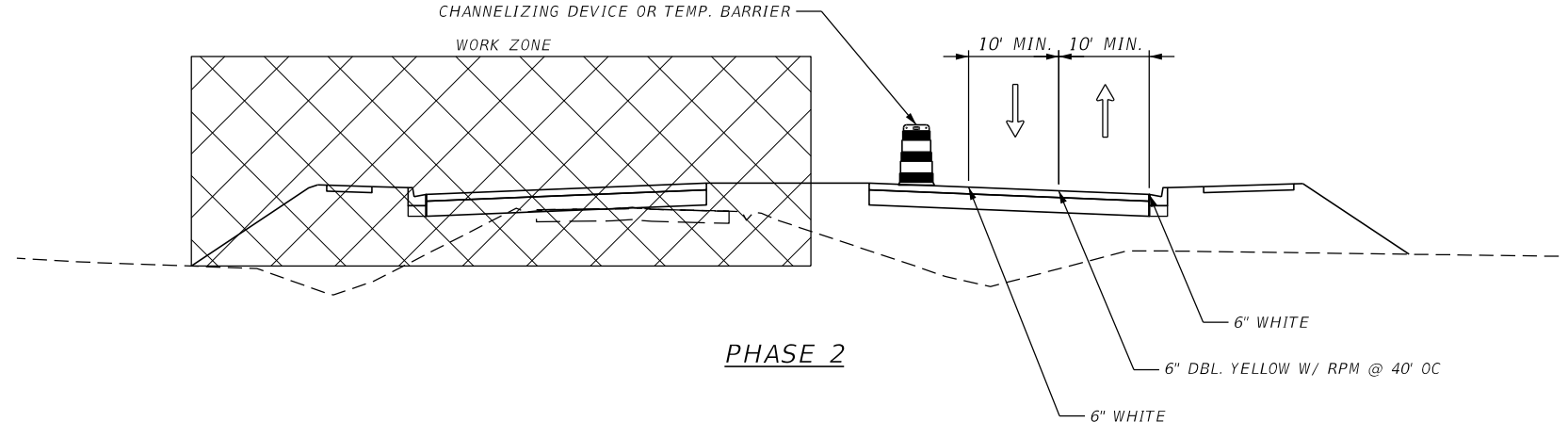
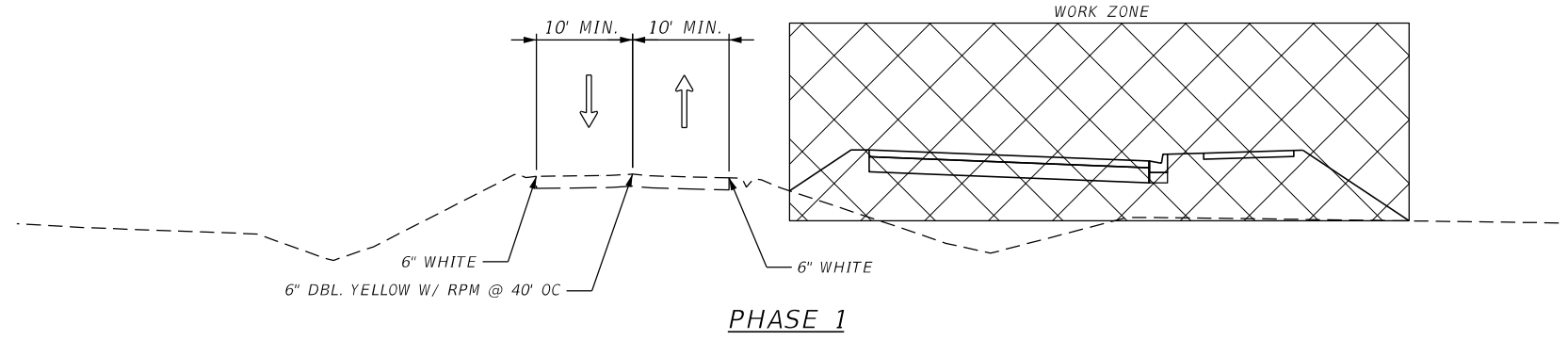
CONSTRUCT THE PROPOSED NORTHBOUND LORRAINE ROAD LANES AS FROM NORTH OF RANGELAND PKWY TO SOUTH OF 44TH AVE (STA. 139+00 TO STA. 177+00 +/-) AND FROM SOUTH OF MILL CREEK BRIDGE TO SOUTH OF SR 64 (STA. 200+00 +/- TO STA. 257+24). SEE TYPICAL SECTION ON NEXT SHEET.

1. ADJUST ADVANCED WARNING SIGNS AND TRAFFIC CONTROL DEVICES AS NEEDED FOR MAINLINE AND SIDE STREETS.
2. SHIFT TRAFFIC TO THE NEW TRAVEL LANES CONSTRUCTED IN PHASE 1.
3. REPLACE EROSION CONTROL DEVICES FOR PHASE 2 CONSTRUCTION.
4. CONSTRUCT THE PROPOSED NORTHBOUND / SOUTHBOUND LANES AND SIDEWALK USING CHANNELIZING DEVICES AND BARRIERS AS NEEDED TO SEPARATE TRAVEL LANES FROM WORK ZONE.
5. REMOVE NECESSARY TEMPORARY PAVEMENT TRANSITIONS.

PHASE 3:
 THE INTENT OF PHASE 3 IS TO CONSTRUCT THE PROPOSED MEDIAN AND LEFT TURN LANE PAVEMENT FROM 59TH AVE E TO SR 64.

1. ADJUST ADVANCED WARNING SIGNS AND TRAFFIC CONTROL DEVICES AS NEEDED FOR MAINLINE AND SIDE STREETS.
2. SHIFT TRAFFIC TO THE NEW TRAVEL LANES CONSTRUCTED IN PHASE 1 AND PHASE 2.
3. REPLACE EROSION CONTROL DEVICES FOR PHASE 3 CONSTRUCTION.
4. CONSTRUCT THE PROPOSED MEDIAN AND LEFT TURN LANES USING CHANNELIZING DEVICES TO SEPARATE TRAVEL LANES FROM WORK ZONE.

TEMP. TRAFFIC CONTROL TYPICAL SECTION
 STA. 107+00 TO STA. 139+00 (+/-)
 STA. 177+00 TO STA. 200+00 (+/-)



SCALE AS NOTED				DATE 11/2022		DESIGN ENGINEER BRIAN L. ZIMMERMAN		SHEET NO. 262
DESIGNED BY BLZ				PROJECT NO. 6107660		FL. LICENSE NO. 78557		
DRAWN BY JMA				PROJECT NO. 6107660		FL. LICENSE NO. 78557		262
CHECKED BY JLS				PROJECT NO. 6107660		FL. LICENSE NO. 78557		
No.	REVISIONS	DATE	BY	PROJECT NO. 6107660		FL. LICENSE NO. 78557		262

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TRAFFIC CONTROL PHASING NOTES CONTINUED:

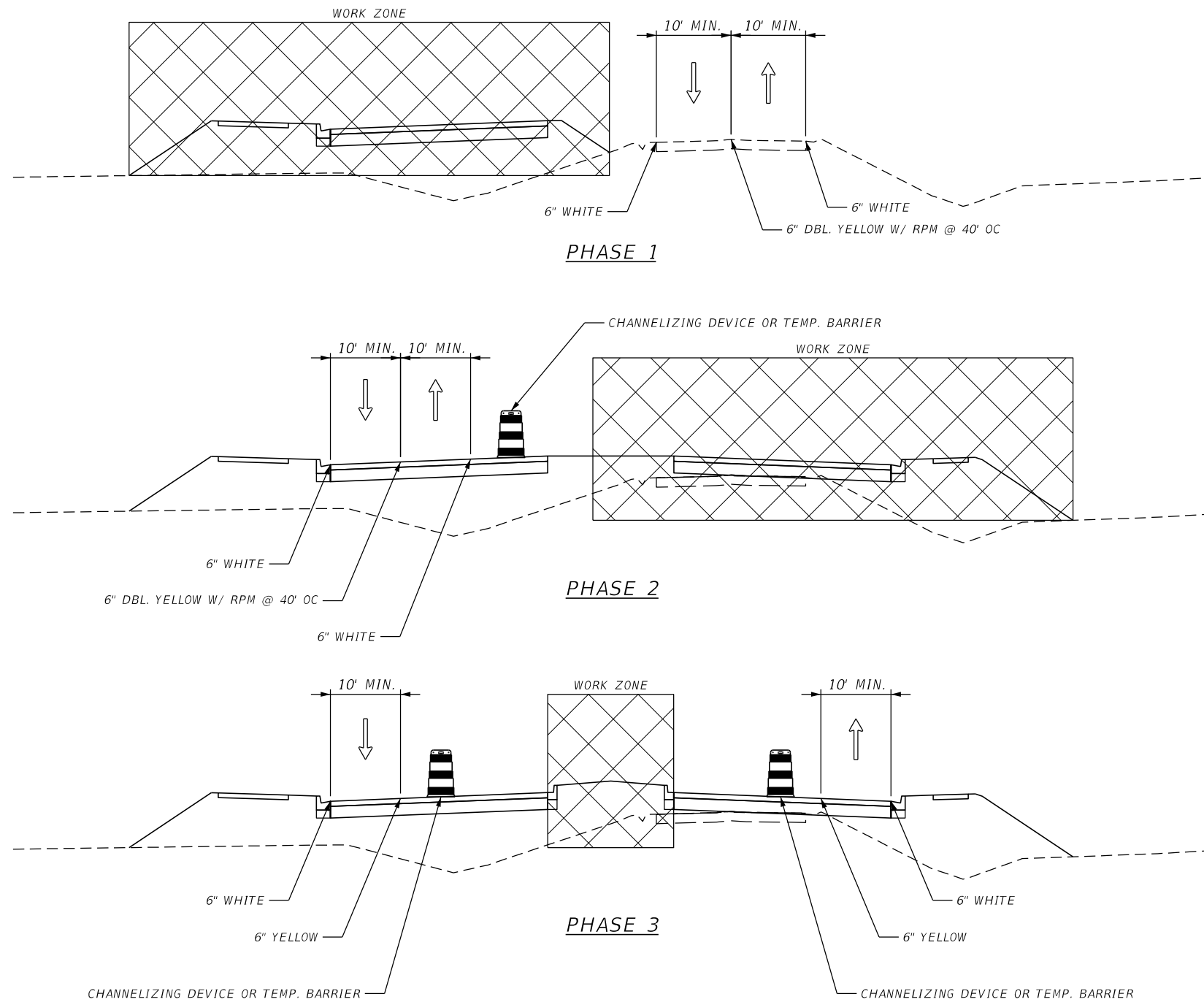
PHASE 4:
THE INTENT OF PHASE 4 IS TO COMPLETE CONSTRUCTION OF LORRAINE ROAD FROM 59TH AVE E TO SR 64.



1. RESURFACE AND ADD FINAL LIFT OF PAVEMENT FOR MAINLINE USING STANDARD PRACTICES AND WORK ZONE CONTROL.

TEMP. TRAFFIC CONTROL TYPICAL SECTION

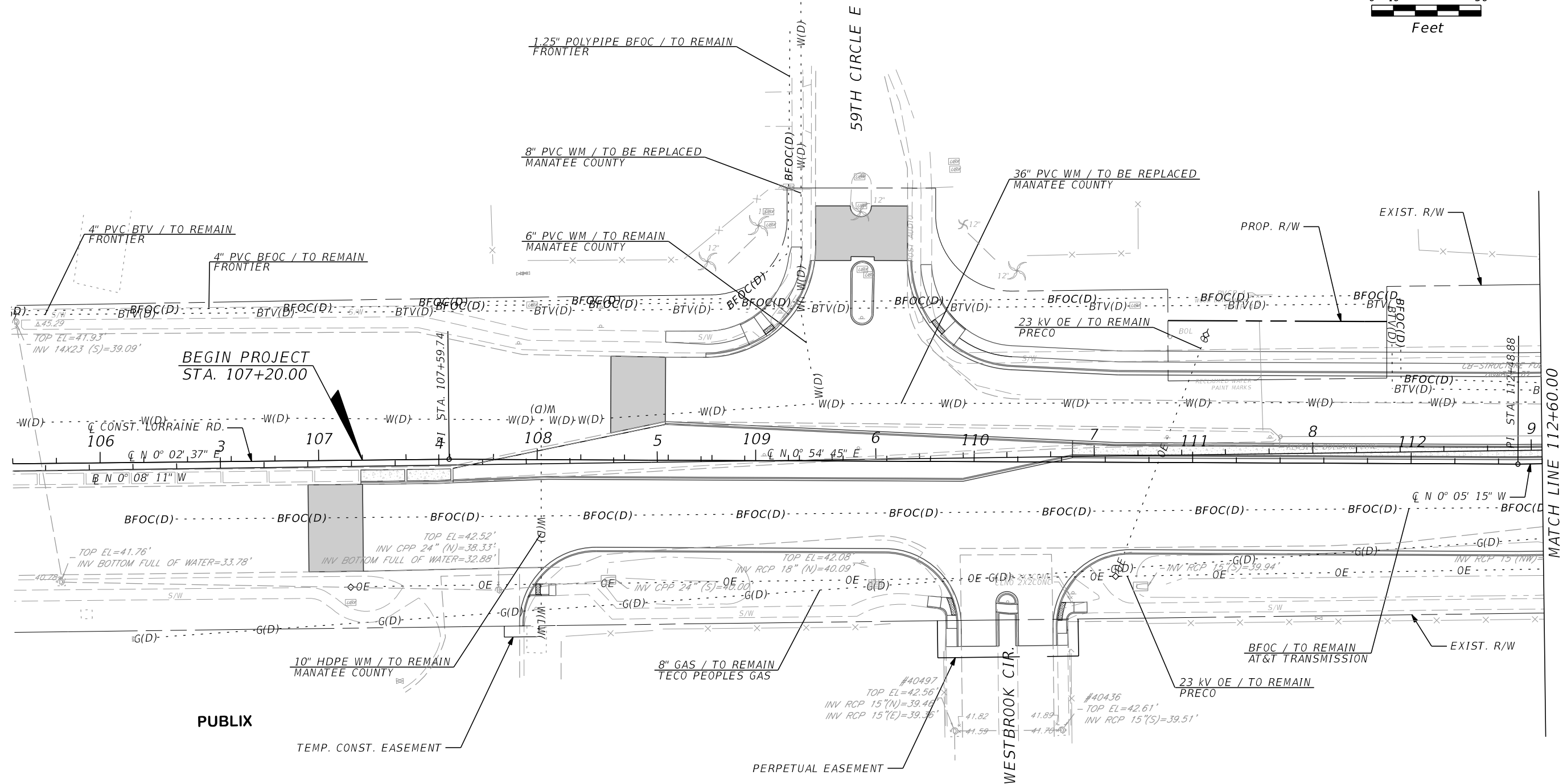
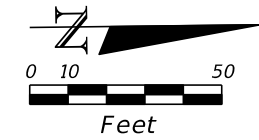
STA. 139+00 TO STA. 177+00 (+/-)

STA. 200+00 (+/-) TO STA. 257+24



No.	REVISIONS	DATE	BY	SCALE AS NOTED	 HDR HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609	DATE 11/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN L. ZIMMERMAN	TEMPORARY TRAFFIC CONTROL PHASING (2)	SHEET NO.
				DRAWN BY JMA		PROJECT NO. 6107660		FL. LICENSE NO. 78557		263
				CHECKED BY JLS						

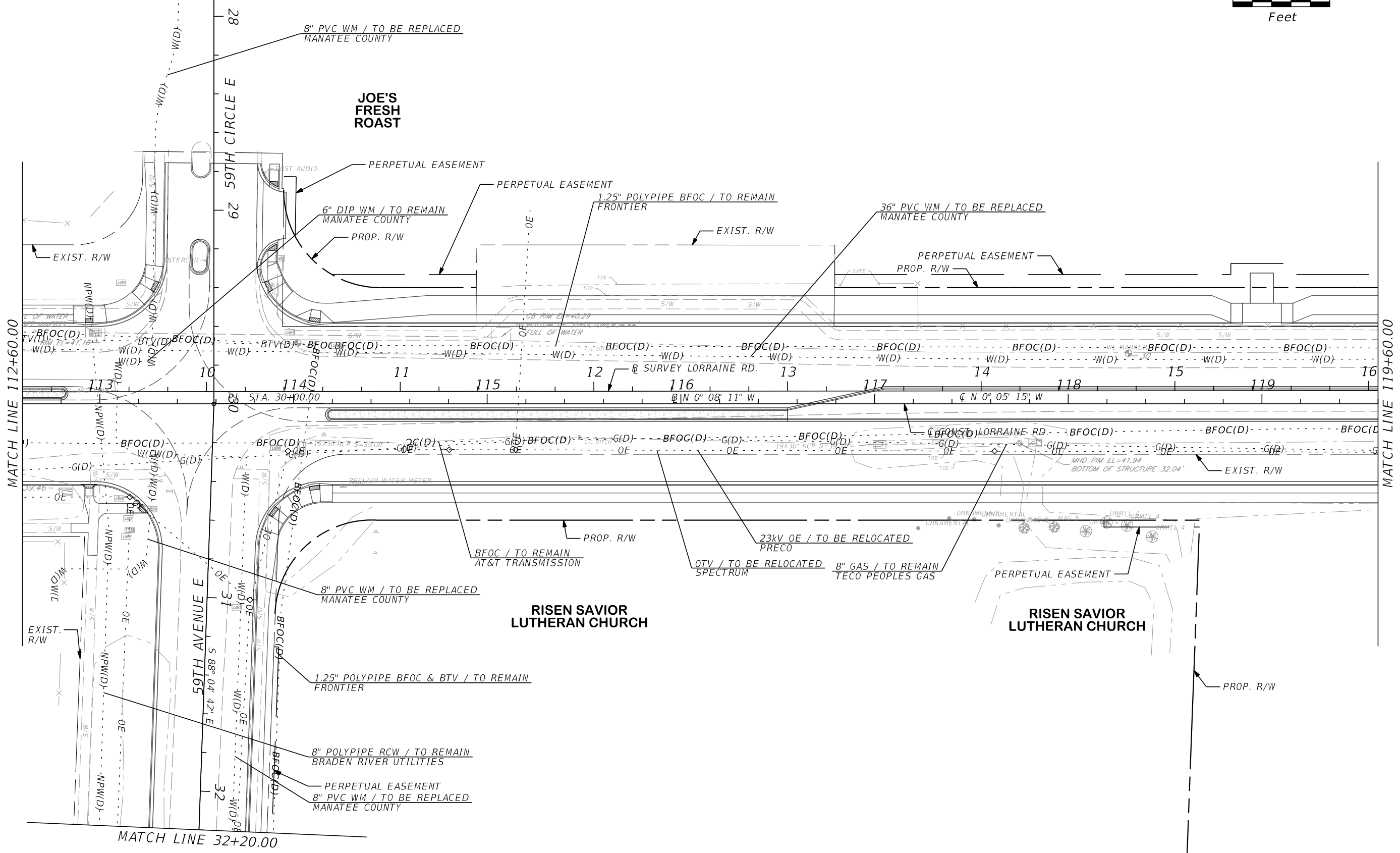
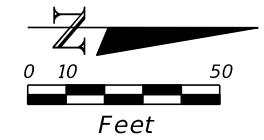
LORRAINE ROAD



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SCALE AS NOTED DESIGNED BY BLZ DRAWN BY TME CHECKED BY BLZ				HDR Engineering, Inc. 4830 W. Kennedy Blvd. Suite 400 Tampa, FL 33609-2548	DATE 09/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN ZIMMERMAN	UTILITY ADJUSTMENTS (1)	SHEET NO. 264
No. REVISIONS DATE BY					PROJECT NO. 6107660		FL. LICENSE NO. 78557		

LORRAINE ROAD



MATCH LINE 112+60.00

MATCH LINE 119+60.00

MATCH LINE 32+20.00

SCALE	AS NOTED		
DESIGNED BY	BLZ		
DRAWN BY	TME		
CHECKED BY	BLZ		
No.	REVISIONS	DATE	BY



HDR Engineering, Inc.
4830 W. Kennedy Blvd.
Suite 400
Tampa, FL 33609-2548

DATE
09/2022

PROJECT NO.
6107660



MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER
BRIAN ZIMMERMAN

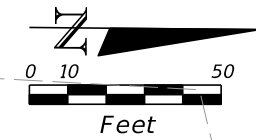
FL. LICENSE NO.
78557

UTILITY ADJUSTMENTS
(2)

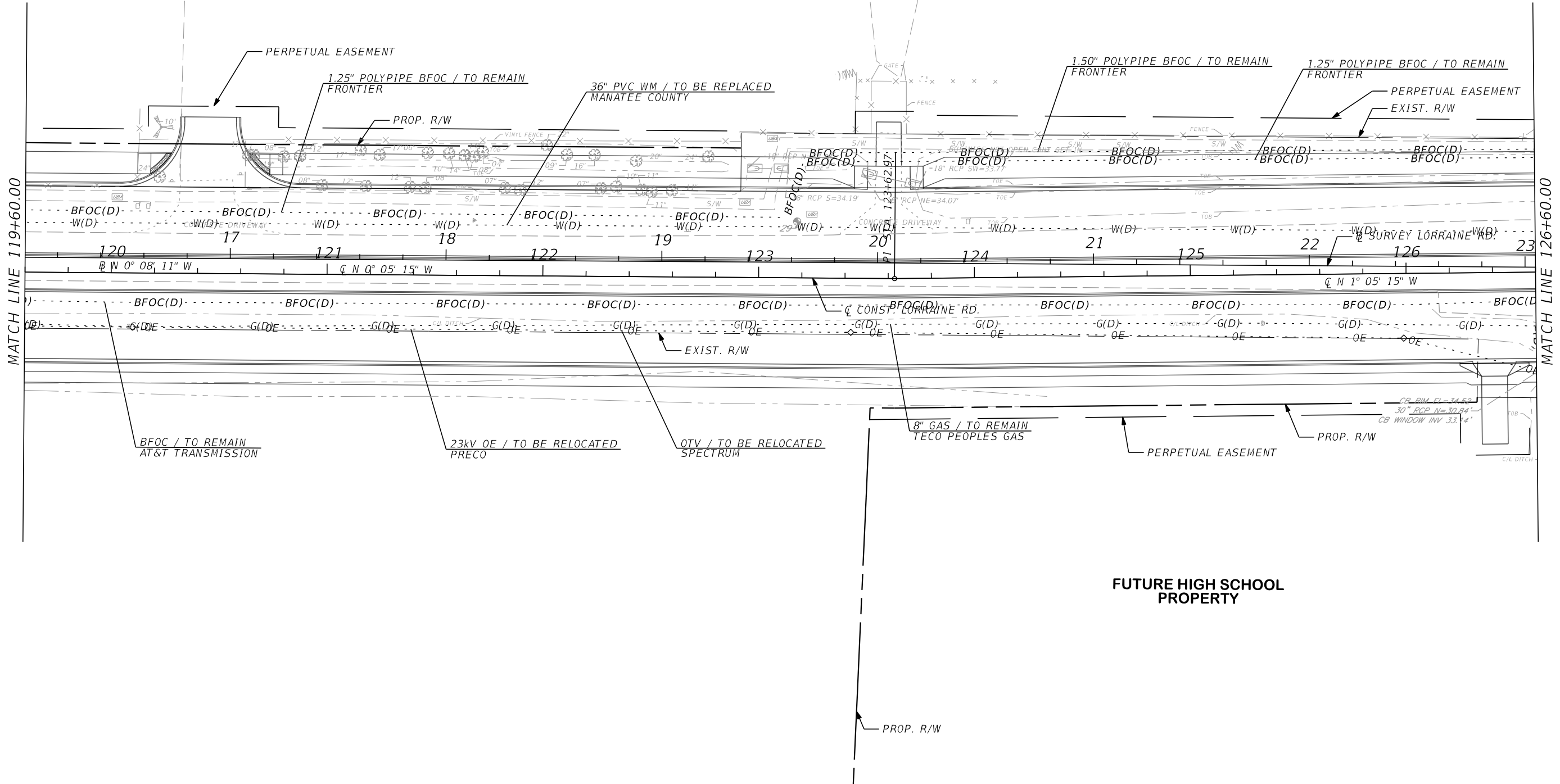
SHEET NO.
265

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LORRAINE ROAD



**CHABAD OF BRADENTON
& LAKEWOOD RANCH**



MATCH LINE 119+60.00

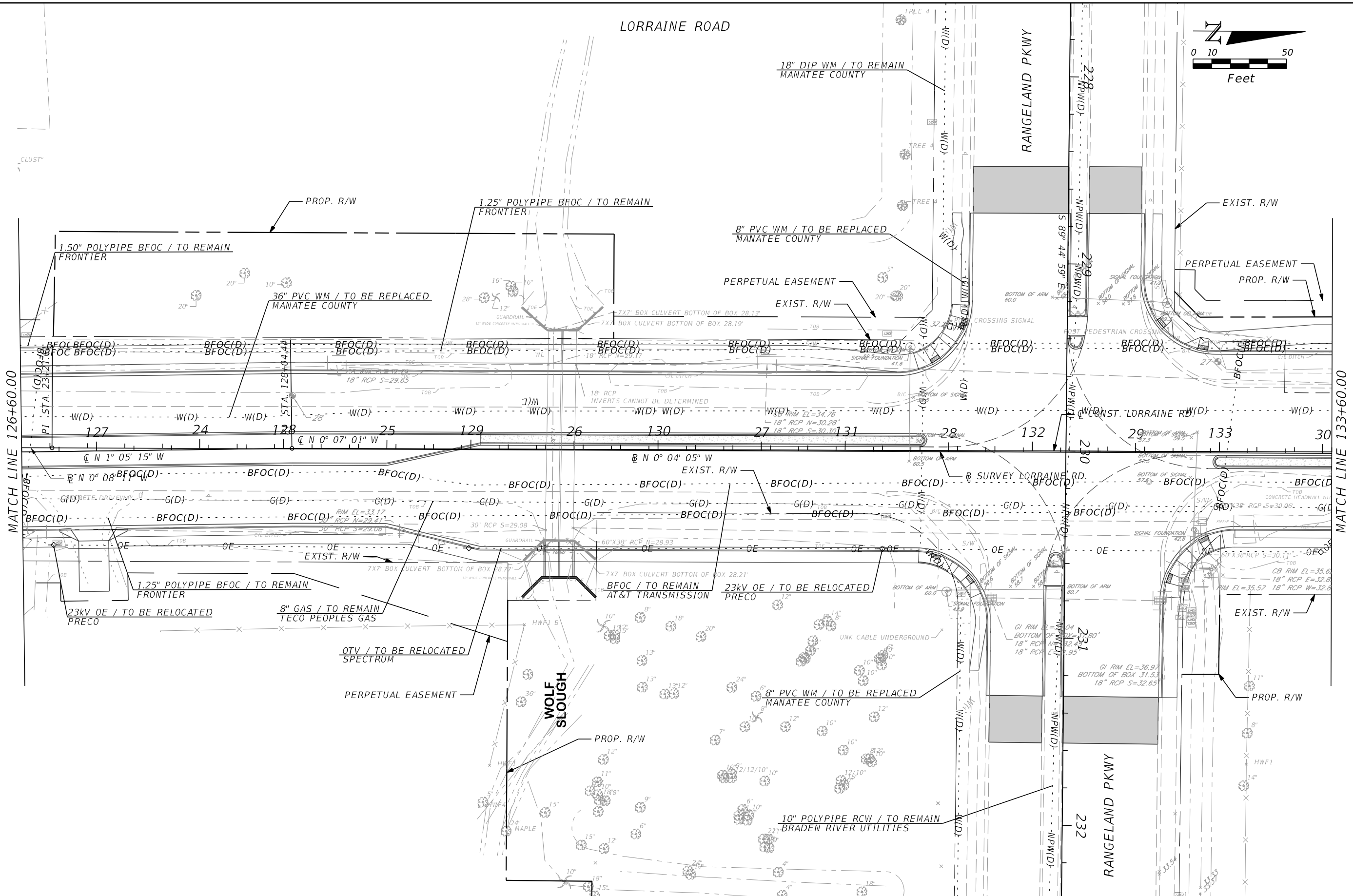
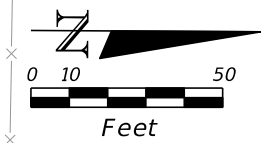
MATCH LINE 126+60.00

**FUTURE HIGH SCHOOL
PROPERTY**

<p>SCALE AS NOTED</p>				<p>DATE 09/2022</p>		<p>DESIGN ENGINEER BRIAN ZIMMERMAN</p>		<p>UTILITY ADJUSTMENTS (3)</p>	<p>SHEET NO. 266</p>
<p>DESIGNED BY BLZ</p>				<p>PROJECT NO. 6107660</p>		<p>FL. LICENSE NO. 78557</p>			
<p>DRAWN BY TME</p>				<p>MANATEE COUNTY PUBLIC WORKS</p>		<p>PERPETUAL EASEMENT</p>			
<p>CHECKED BY BLZ</p>				<p>HDR Engineering, Inc. 4830 W. Kennedy Blvd. Suite 400 Tampa, FL 33609-2548</p>		<p>PROP. R/W</p>			
<p>REVISIONS</p>				<p>11/30/2022 2:53:01 PM Default</p>		<p>MANATEE COUNTY FLORIDA</p>			

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LORRAINE ROAD



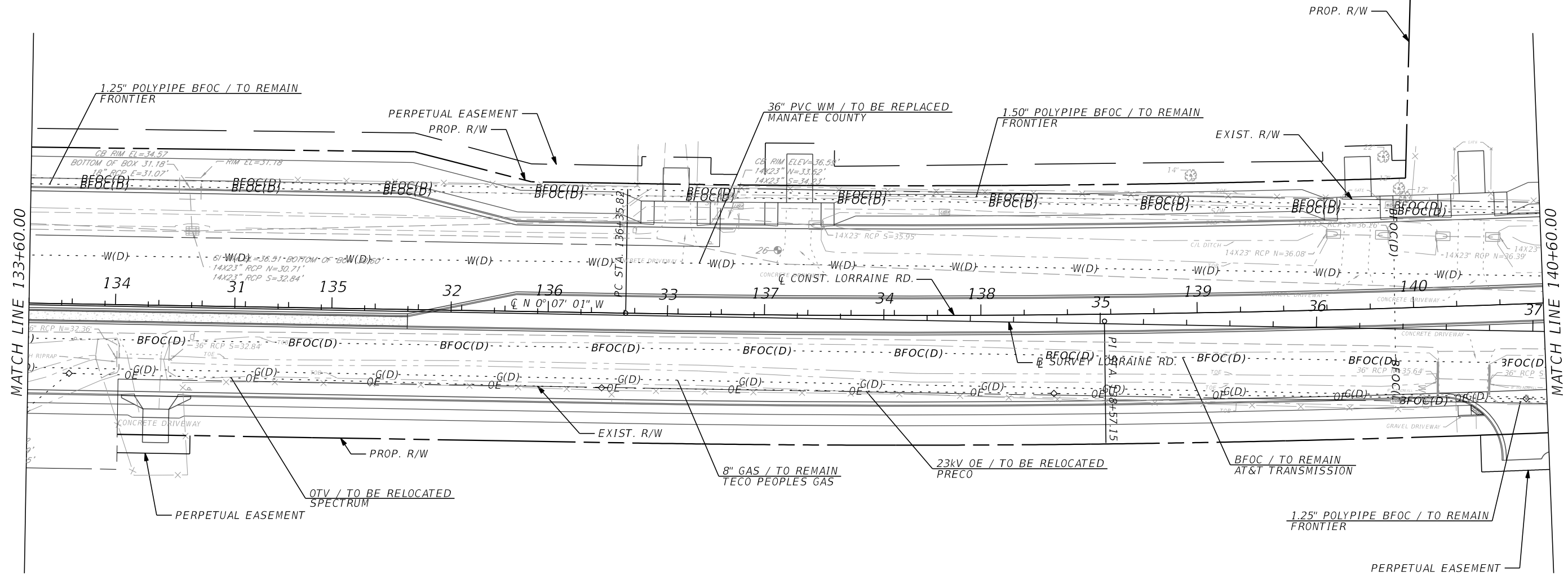
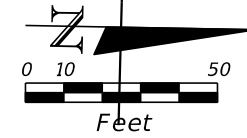
MATCH LINE 126+60.00

MATCH LINE 133+60.00

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY TME CHECKED BY BLZ				HDR Engineering, Inc. 4830 W. Kennedy Blvd. Suite 400 Tampa, FL 33609-2548		DATE 09/2022 PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN ZIMMERMAN FL. LICENSE NO. 78557		UTILITY ADJUSTMENTS (4)		SHEET NO. 267	
No.	REVISIONS			DATE	BY										

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LORRAINE ROAD



No.	REVISIONS	DATE	BY

SCALE AS NOTED

DESIGNED BY BLZ

DRAWN BY TME

CHECKED BY BLZ



HDR Engineering, Inc.
4830 W. Kennedy Blvd.
Suite 400
Tampa, FL 33609-2548

DATE 09/2022

PROJECT NO. 6107660



MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER BRIAN ZIMMERMAN

FL. LICENSE NO. 78557

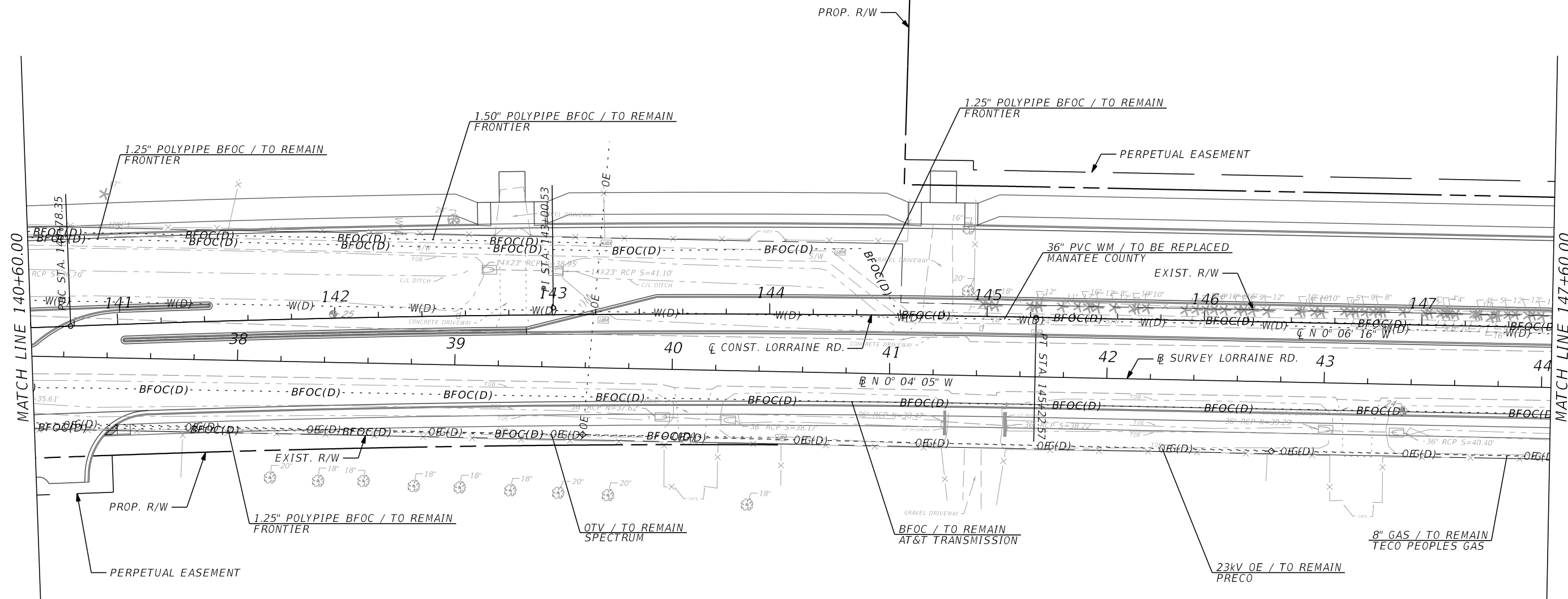
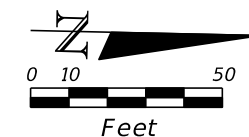
UTILITY ADJUSTMENTS

(5)

SHEET NO. 268

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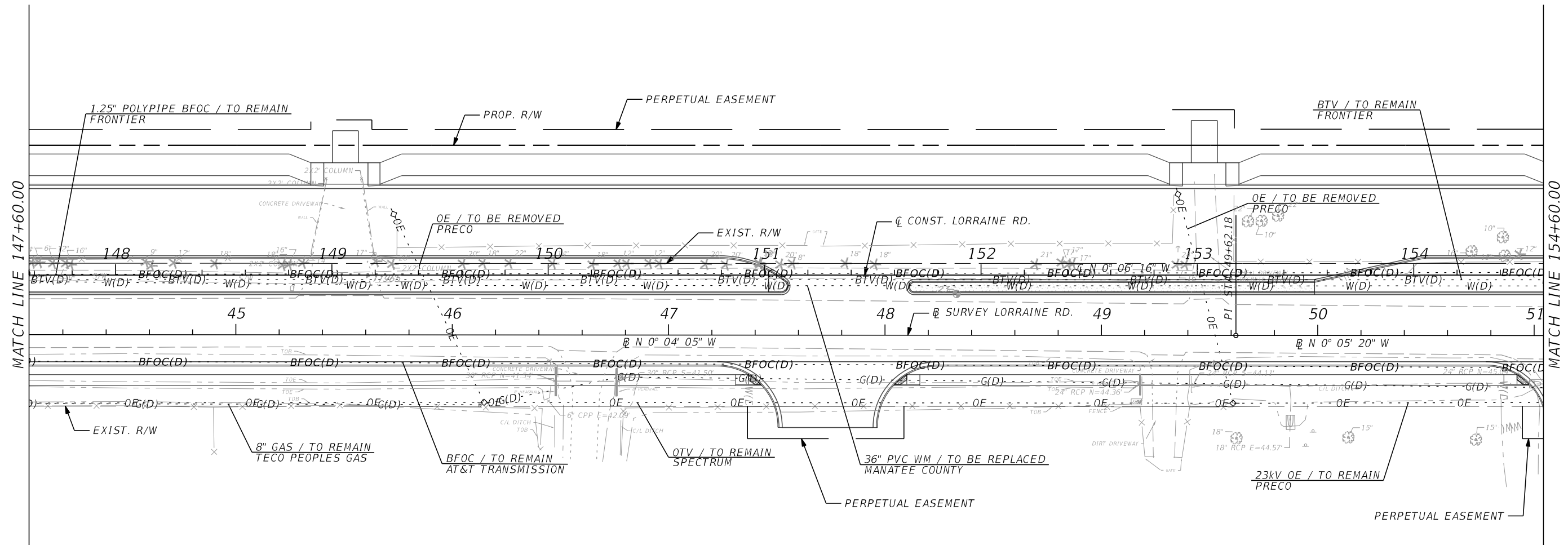
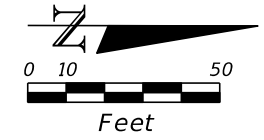
LORRAINE ROAD



SCALE AS NOTED DESIGNED BY BLZ DRAWN BY TME CHECKED BY BLZ				HDR Engineering, Inc. 4830 W. Kennedy Blvd. Suite 400 Tampa, FL 33609-2548		DATE 09/2022 PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN ZIMMERMAN FL. LICENSE NO. 78557		UTILITY ADJUSTMENTS (6)		SHEET NO. 269	
No.	REVISIONS			DATE	BY										

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

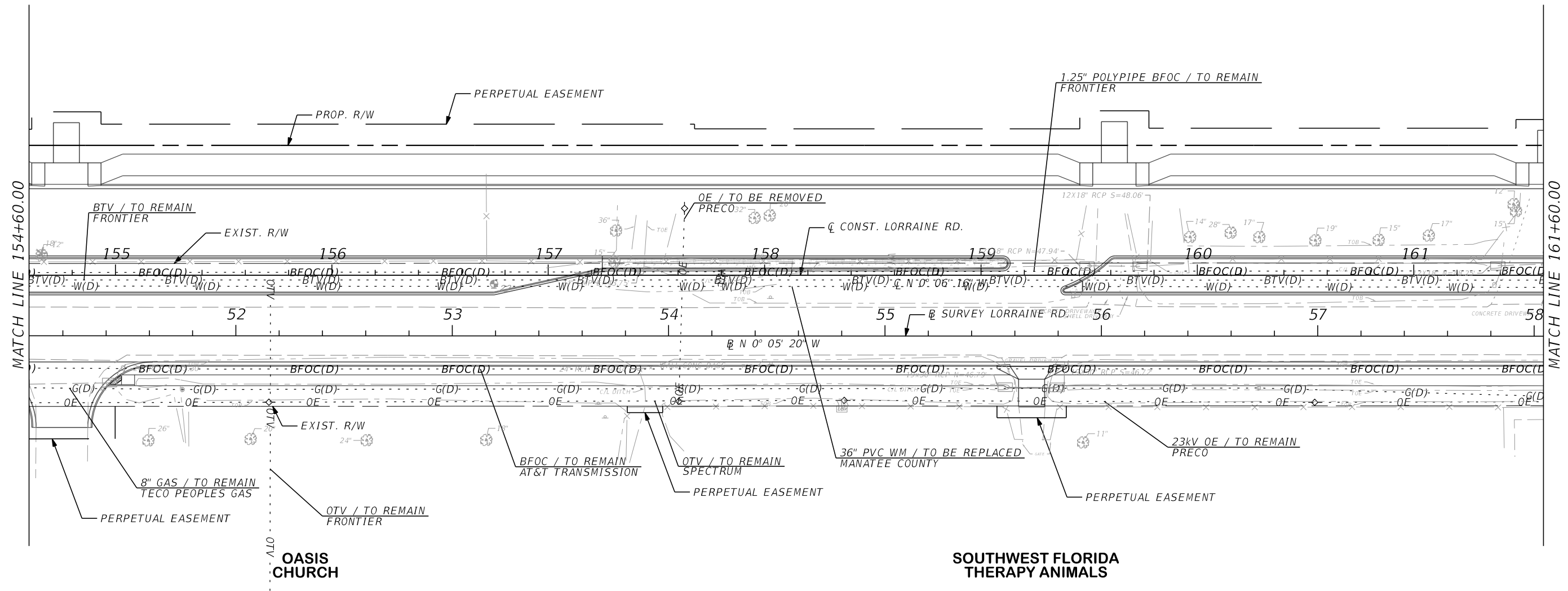
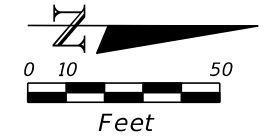
LORRAINE ROAD



SCALE AS NOTED DESIGNED BY BLZ DRAWN BY TME CHECKED BY BLZ				HDR Engineering, Inc. 4830 W. Kennedy Blvd. Suite 400 Tampa, FL 33609-2548	DATE 09/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN ZIMMERMAN	UTILITY ADJUSTMENTS (7)	SHEET NO. 270
No. REVISIONS DATE BY					PROJECT NO. 6107660		FL. LICENSE NO. 78557		

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LORRAINE ROAD



No.	REVISIONS	DATE	BY

SCALE AS NOTED

DESIGNED BY BLZ

DRAWN BY TME

CHECKED BY BLZ

HDR Engineering, Inc.
4830 W. Kennedy Blvd.
Suite 400
Tampa, FL 33609-2548

DATE	09/2022
PROJECT NO.	6107660

MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER	BRIAN ZIMMERMAN
FL. LICENSE NO.	78557

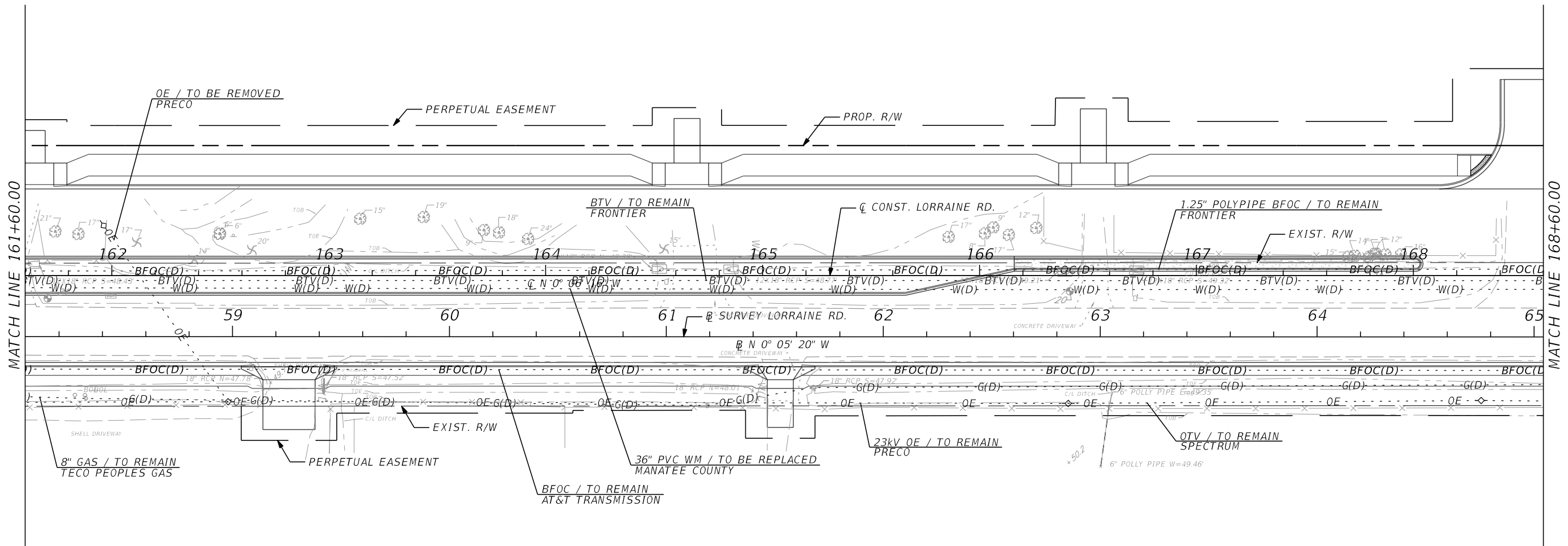
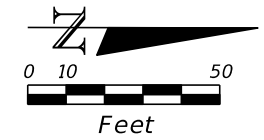
UTILITY ADJUSTMENTS

(8)



SHEET NO.	271
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LORRAINE ROAD

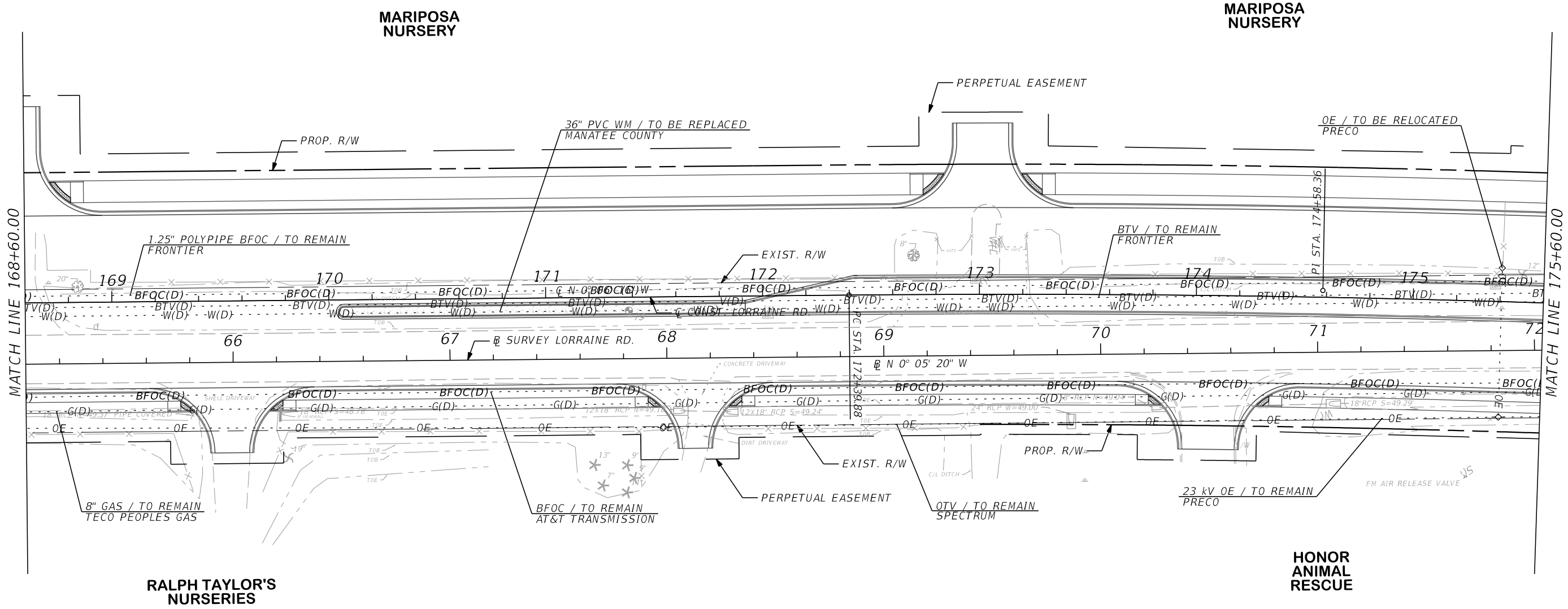
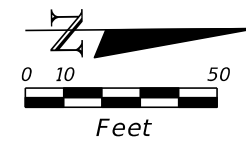


RALPH TAYLOR'S NURSERIES

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No.	REVISIONS	DATE	BY															

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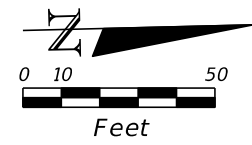
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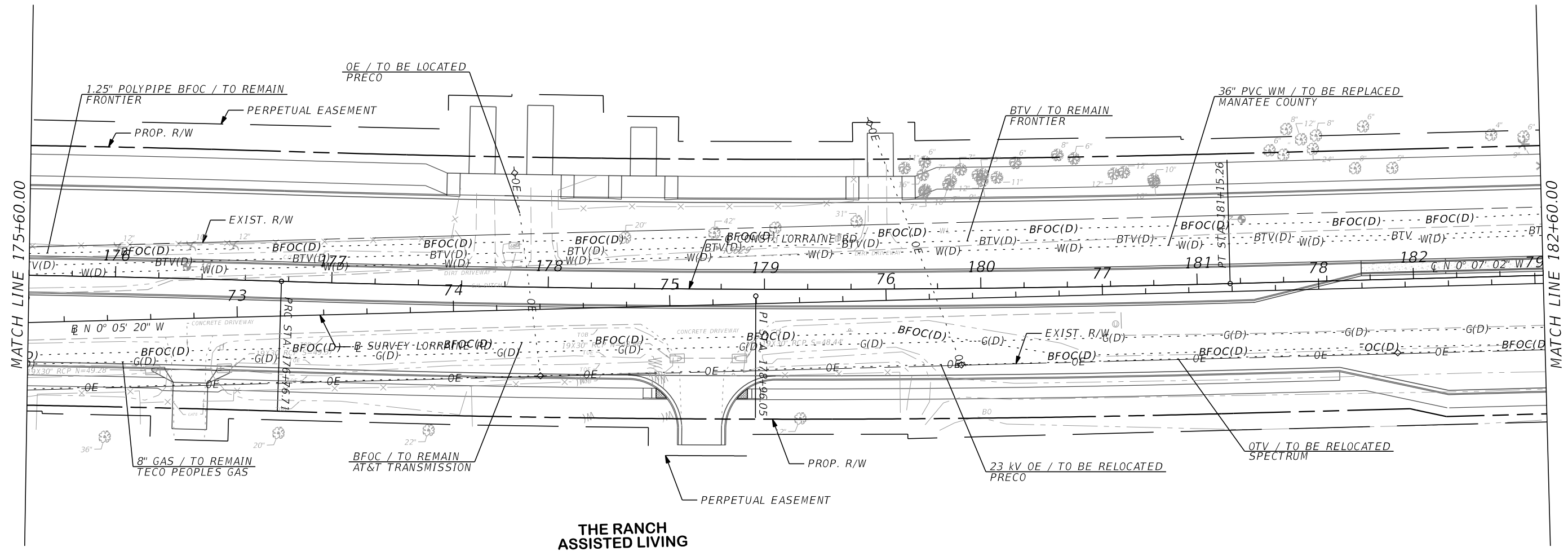
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

SCALE AS NOTED DESIGNED BY BLZ DRAWN BY TME CHECKED BY BLZ		HDR Engineering, Inc. 4830 W. Kennedy Blvd. Suite 400 Tampa, FL 33609-2548	DATE 09/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN ZIMMERMAN	UTILITY ADJUSTMENTS (10)	SHEET NO. 273
No. REVISIONS DATE BY			PROJECT NO. 6107660		FL. LICENSE NO. 78557		

LORRAINE ROAD

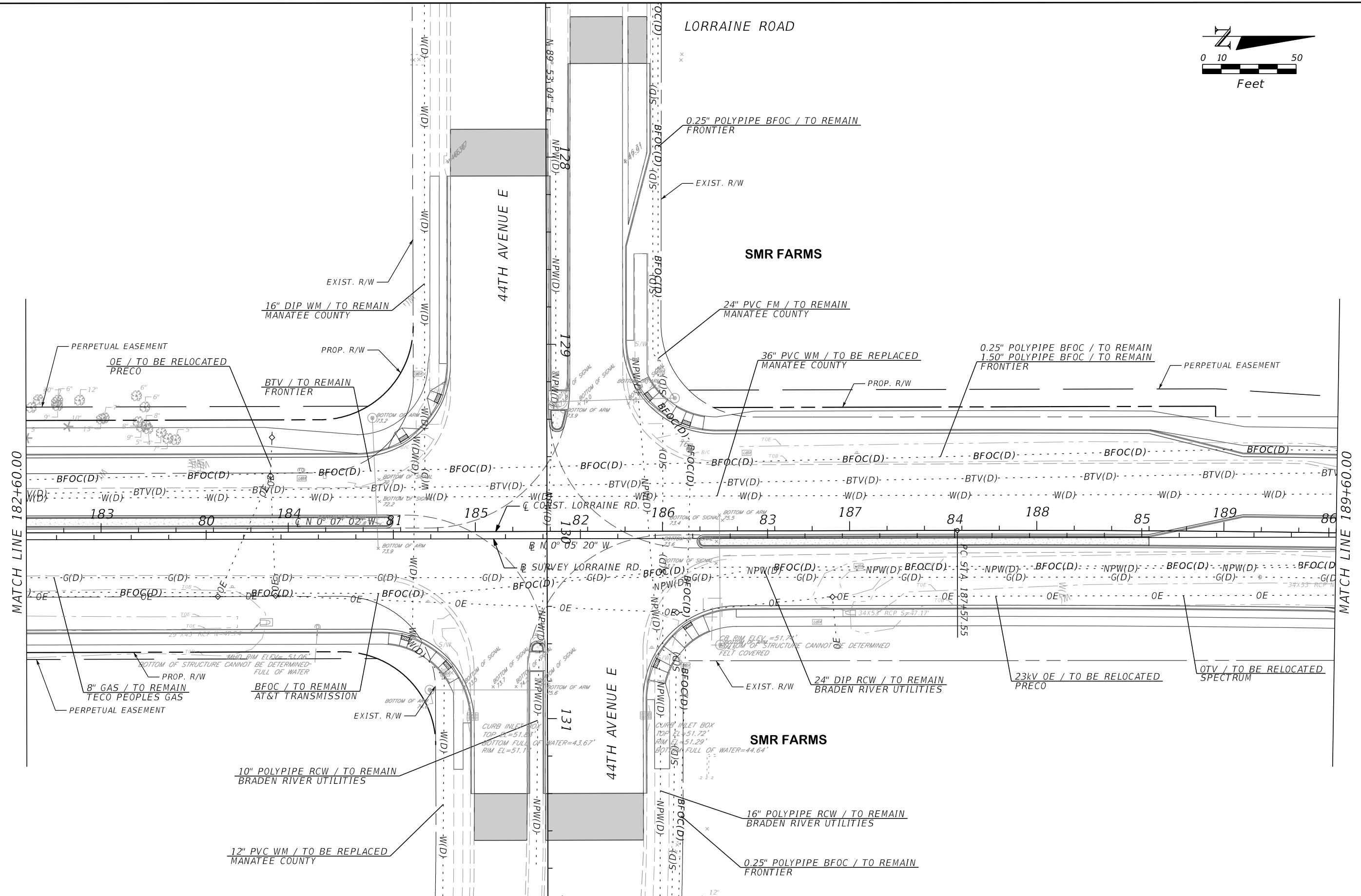
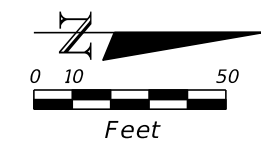


SMR FARMS



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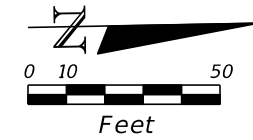
SCALE AS NOTED DESIGNED BY BLZ DRAWN BY TME CHECKED BY BLZ				HDR Engineering, Inc. 4830 W. Kennedy Blvd. Suite 400 Tampa, FL 33609-2548	DATE 09/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN ZIMMERMAN	UTILITY ADJUSTMENTS (11)	SHEET NO. 274
No. REVISIONS DATE BY					PROJECT NO. 6107660		FL. LICENSE NO. 78557		



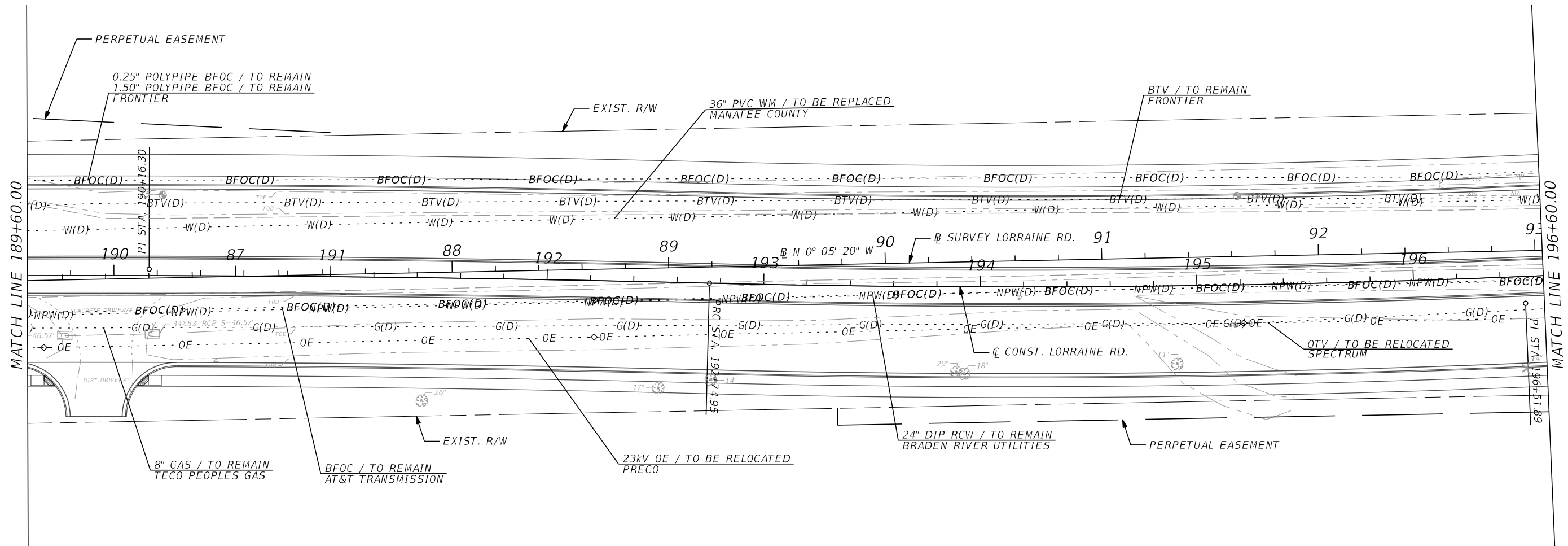
HDR HDR Engineering, Inc. 4830 W. Kennedy Blvd. Suite 400 Tampa, FL 33609-2548		DATE 09/2022	DESIGN ENGINEER BRIAN ZIMMERMAN FL. LICENSE NO. 78557	UTILITY ADJUSTMENTS (12)	SHEET NO. 275
SCALE AS NOTED		PROJECT NO. 6107660			
DESIGNED BY BLZ					
DRAWN BY TME					
CHECKED BY BLZ					

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LORRAINE ROAD



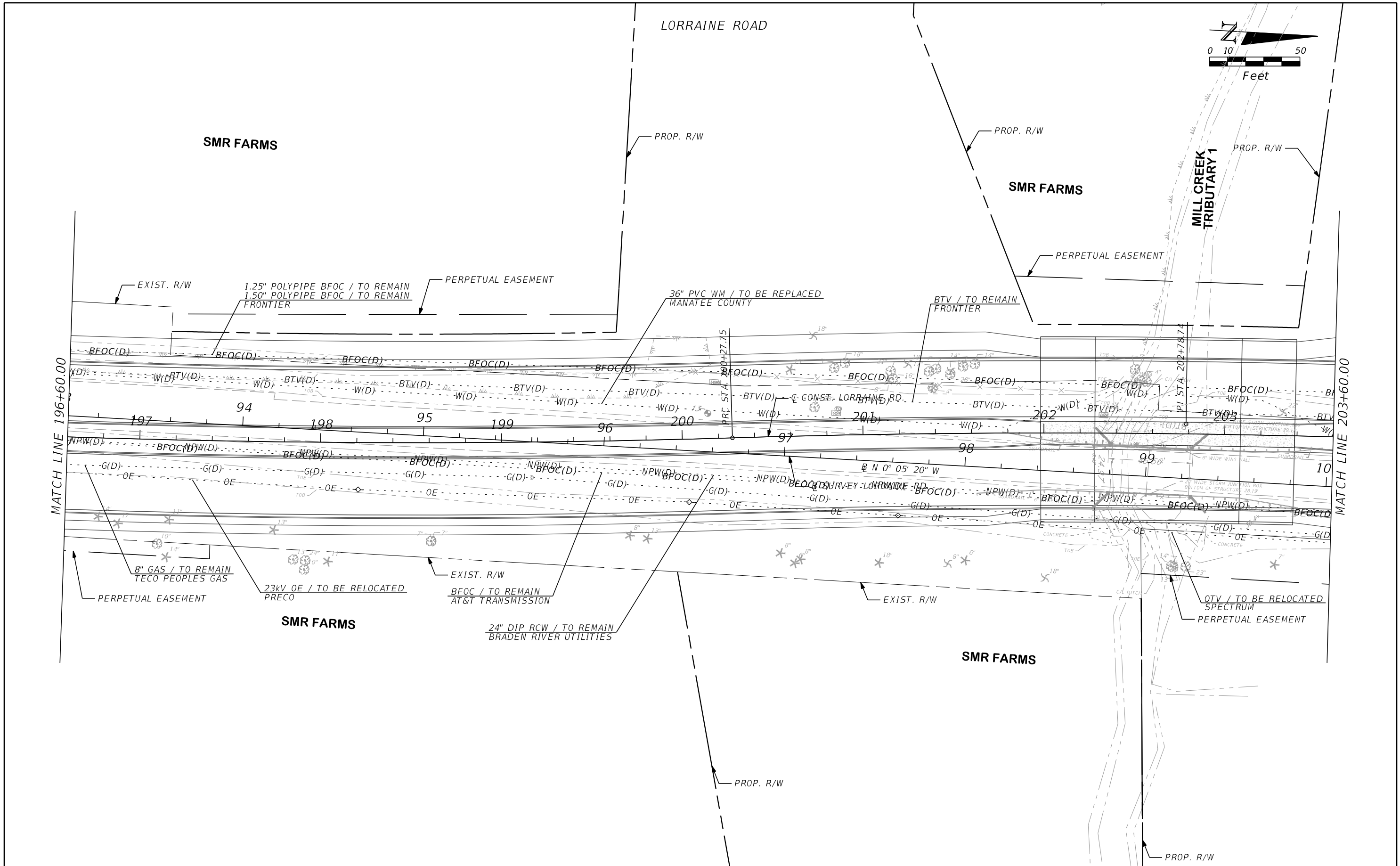
SMR FARMS





SMR FARMS

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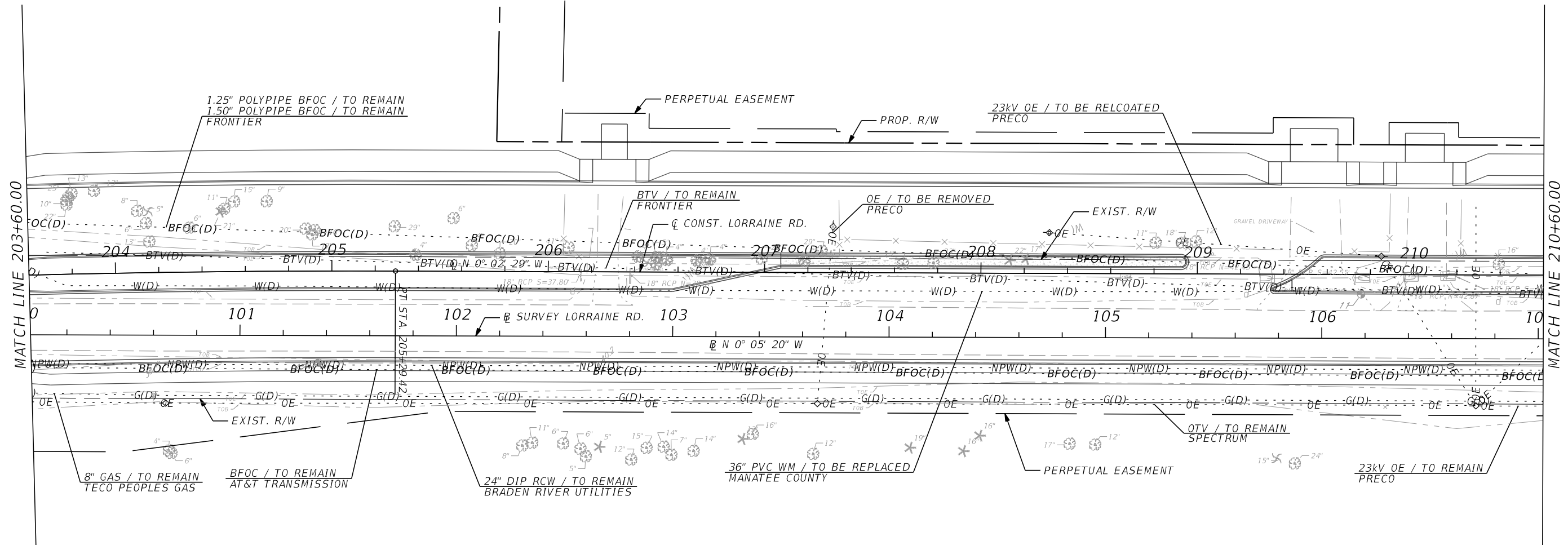
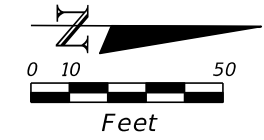
SCALE AS NOTED DESIGNED BY BLZ DRAWN BY TME CHECKED BY BLZ				HDR Engineering, Inc. 4830 W. Kennedy Blvd. Suite 400 Tampa, FL 33609-2548	DATE 09/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN ZIMMERMAN	UTILITY ADJUSTMENTS (13)	SHEET NO. 276
No. REVISIONS DATE BY					PROJECT NO. 6107660		FL. LICENSE NO. 78557		



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No.	REVISIONS	DATE	BY															

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LORRAINE ROAD



No.	REVISIONS	DATE	BY

SCALE	AS NOTED
DESIGNED BY	BLZ
DRAWN BY	TME
CHECKED BY	BLZ

HDR Engineering, Inc.
4830 W. Kennedy Blvd.
Suite 400
Tampa, FL 33609-2548

DATE	09/2022
PROJECT NO.	6107660

MANATEE COUNTY
PUBLIC WORKS

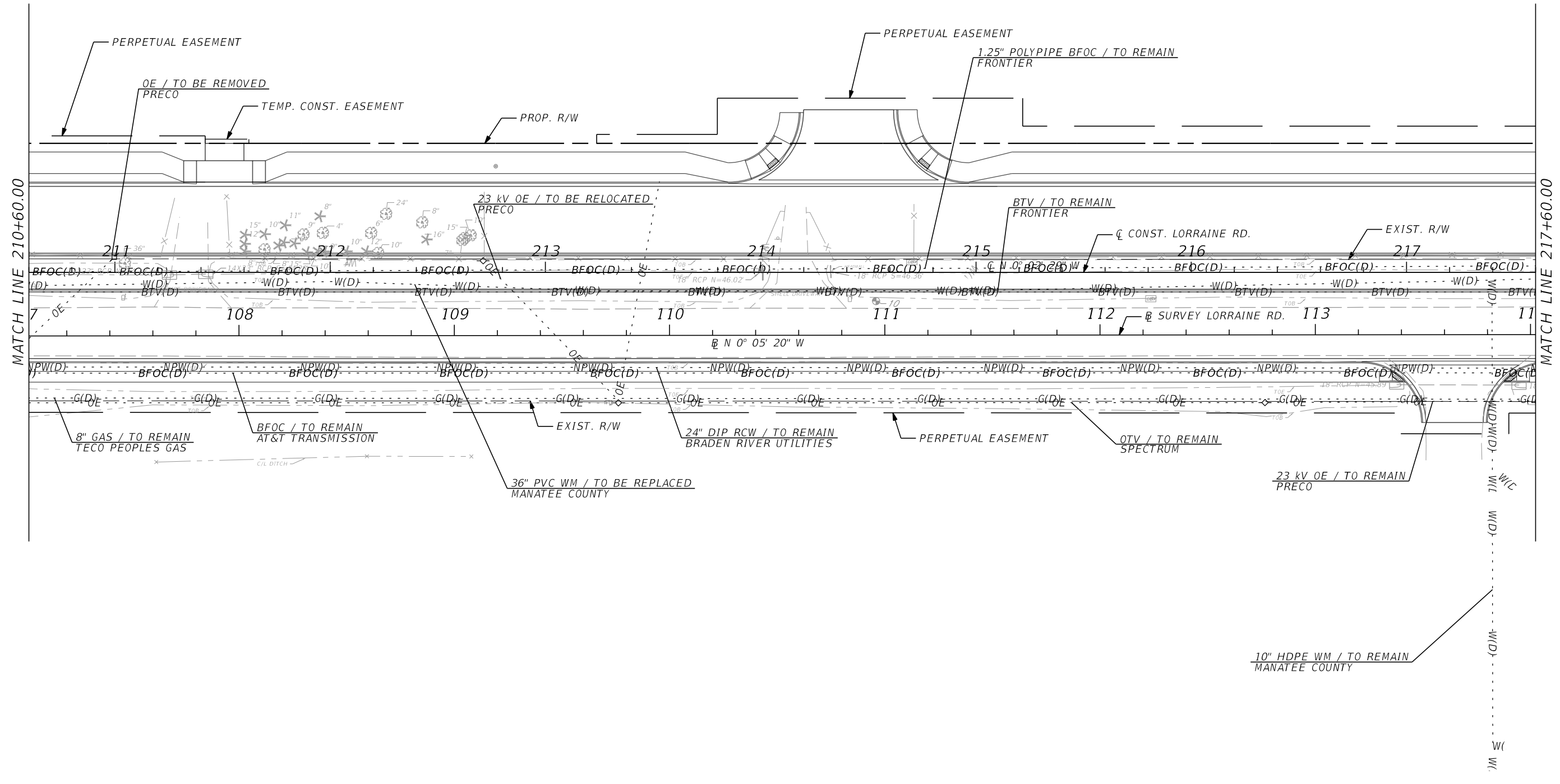
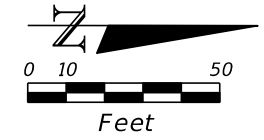
DESIGN ENGINEER	BRIAN ZIMMERMAN
FL. LICENSE NO.	78557

UTILITY ADJUSTMENTS
(15)

SHEET NO.	278
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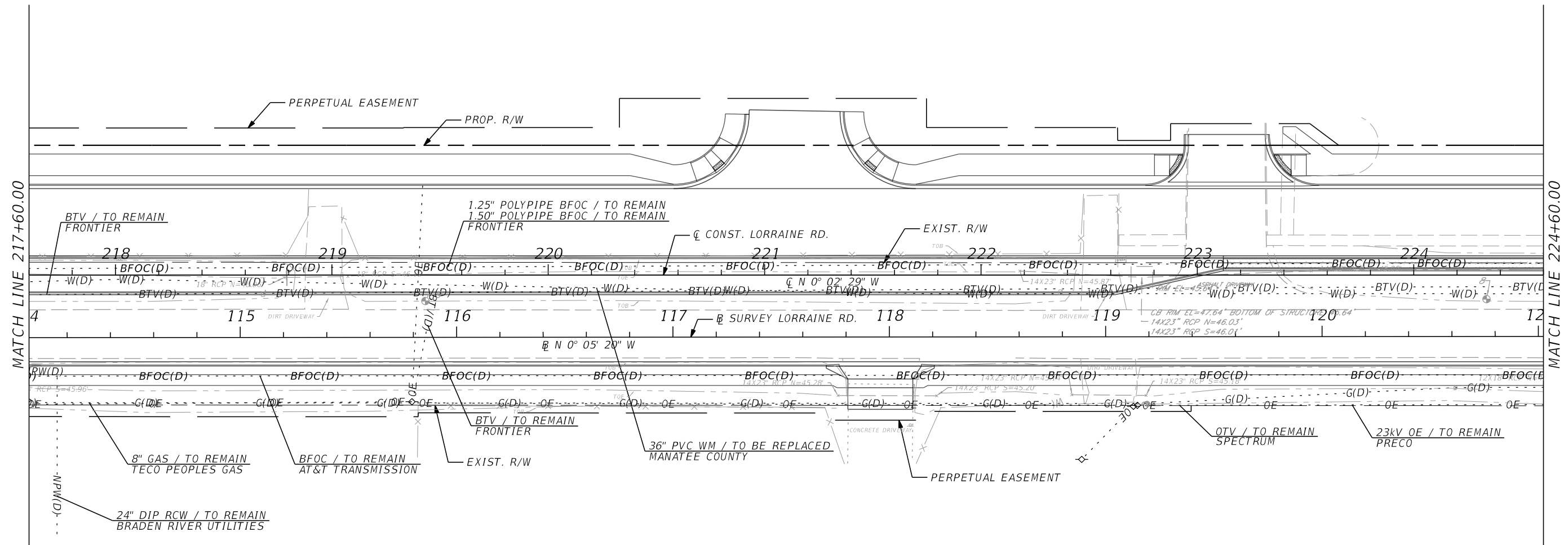
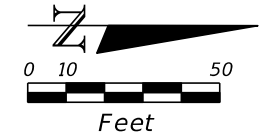
LORRAINE ROAD





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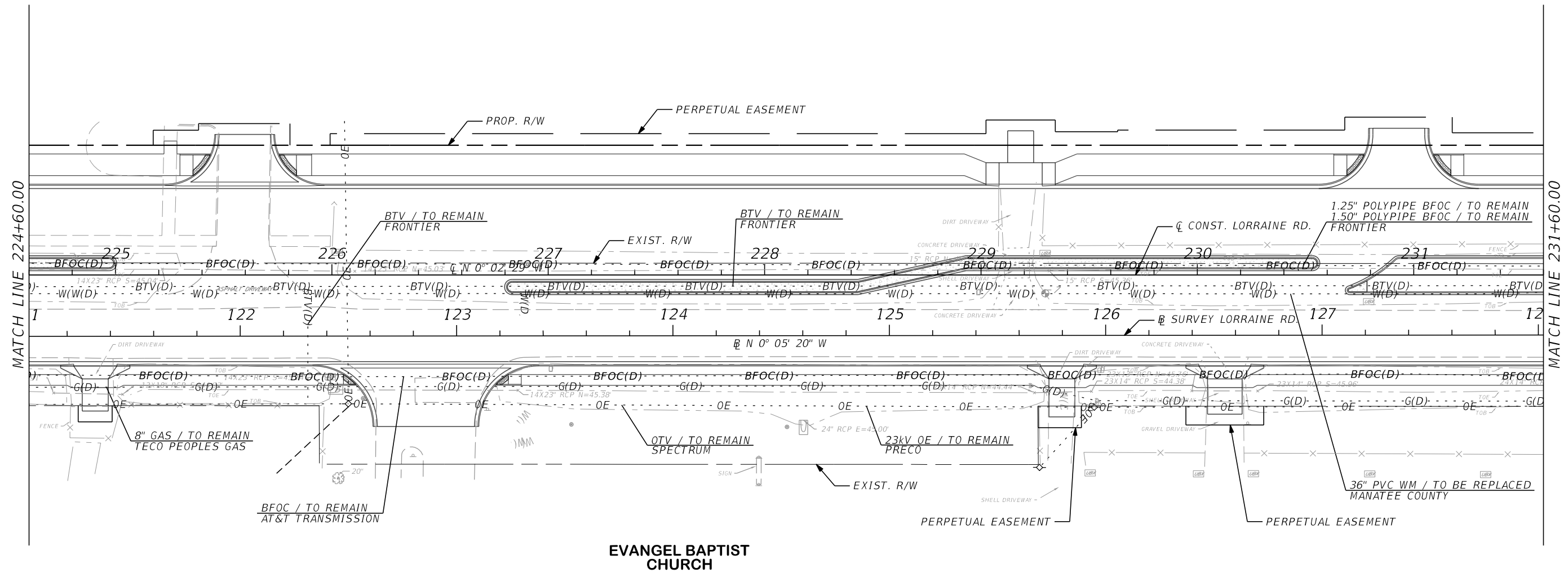
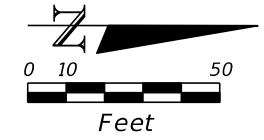
				SCALE AS NOTED		HDR Engineering, Inc. 4830 W. Kennedy Blvd. Suite 400 Tampa, FL 33609-2548	DATE 09/2022	MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN ZIMMERMAN	UTILITY ADJUSTMENTS (16)	SHEET NO. 279
				DESIGNED BY BLZ			PROJECT NO. 6107660		FL. LICENSE NO. 78557		
				DRAWN BY TME							
				CHECKED BY BLZ							
No.	REVISIONS			DATE	BY						

LORRAINE ROAD



SCALE AS NOTED DESIGNED BY BLZ DRAWN BY TME CHECKED BY BLZ				 HDR Engineering, Inc. 4830 W. Kennedy Blvd. Suite 400 Tampa, FL 33609-2548	DATE 09/2022	 MANATEE COUNTY PUBLIC WORKS	DESIGN ENGINEER BRIAN ZIMMERMAN	UTILITY ADJUSTMENTS (17)	SHEET NO. 280
No. REVISIONS DATE BY					PROJECT NO. 6107660		FL. LICENSE NO. 78557		

LORRAINE ROAD



EVANGEL BAPTIST CHURCH

No.	REVISIONS	DATE	BY

SCALE AS NOTED

DESIGNED BY BLZ

DRAWN BY TME

CHECKED BY BLZ



HDR Engineering, Inc.
4830 W. Kennedy Blvd.
Suite 400
Tampa, FL 33609-2548

DATE	09/2022
PROJECT NO.	6107660



MANATEE COUNTY
PUBLIC WORKS

DESIGN ENGINEER	BRIAN ZIMMERMAN
FL. LICENSE NO.	78557

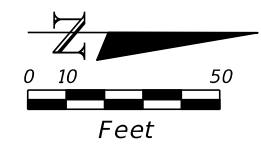
UTILITY ADJUSTMENTS

(18)

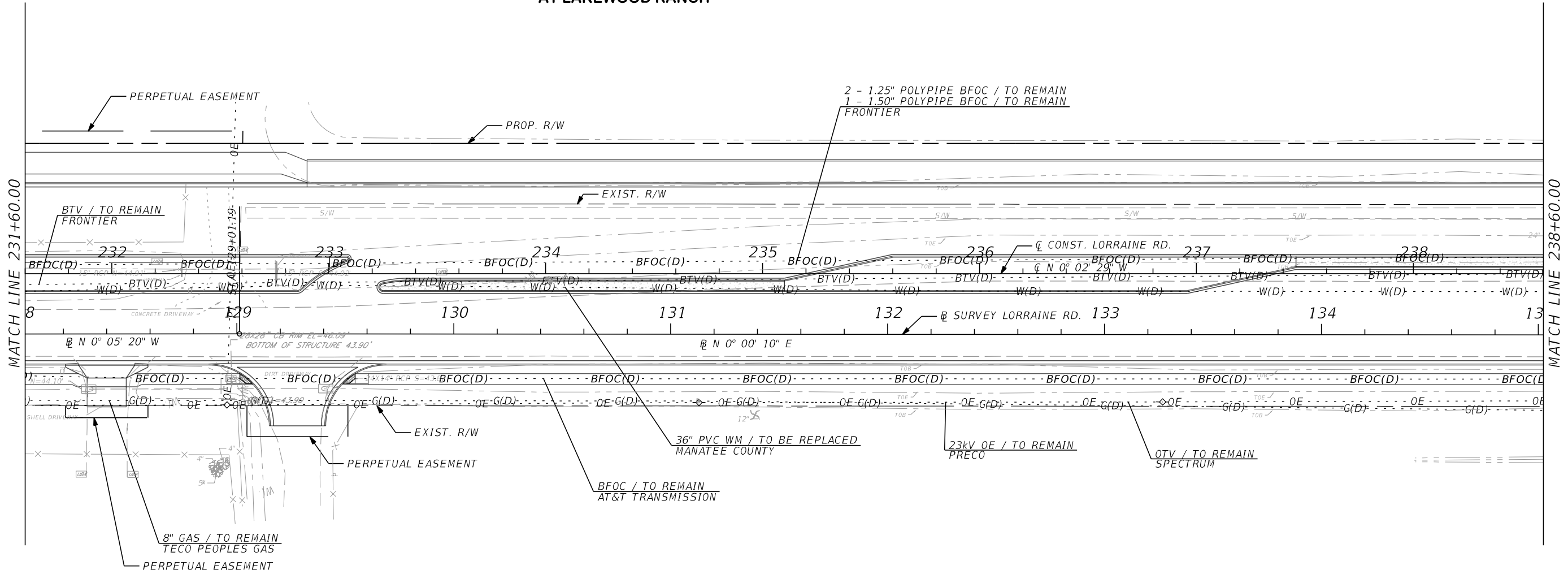
SHEET NO.	281
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W(D) LORRAINE ROAD
-W(D)

2" HDPE WM / TO REMAIN
MANATEE COUNTY

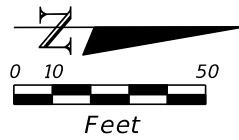
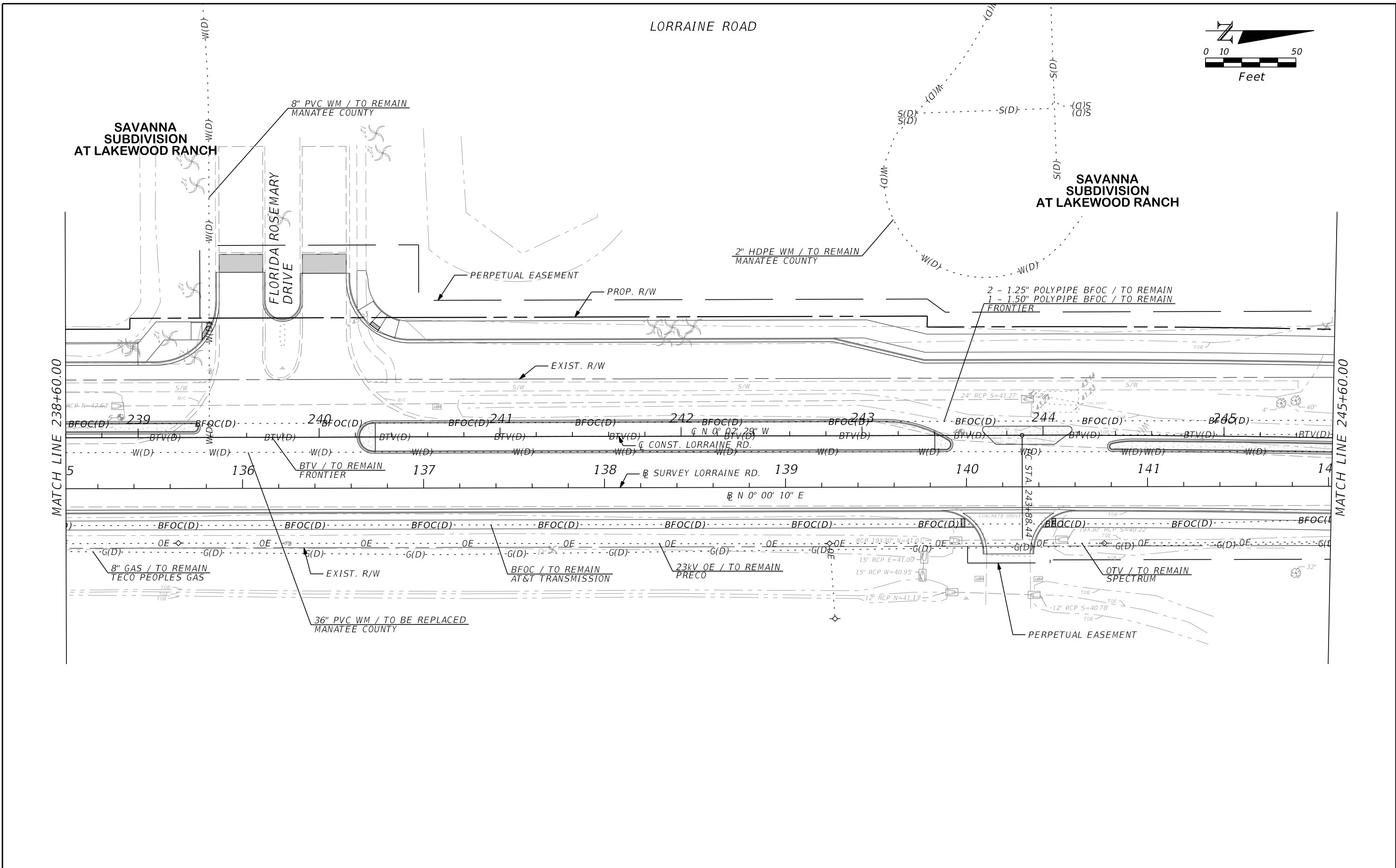


SAVANNA
SUBDIVISION
AT LAKEWOOD RANCH





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No.	REVISIONS	DATE	BY															



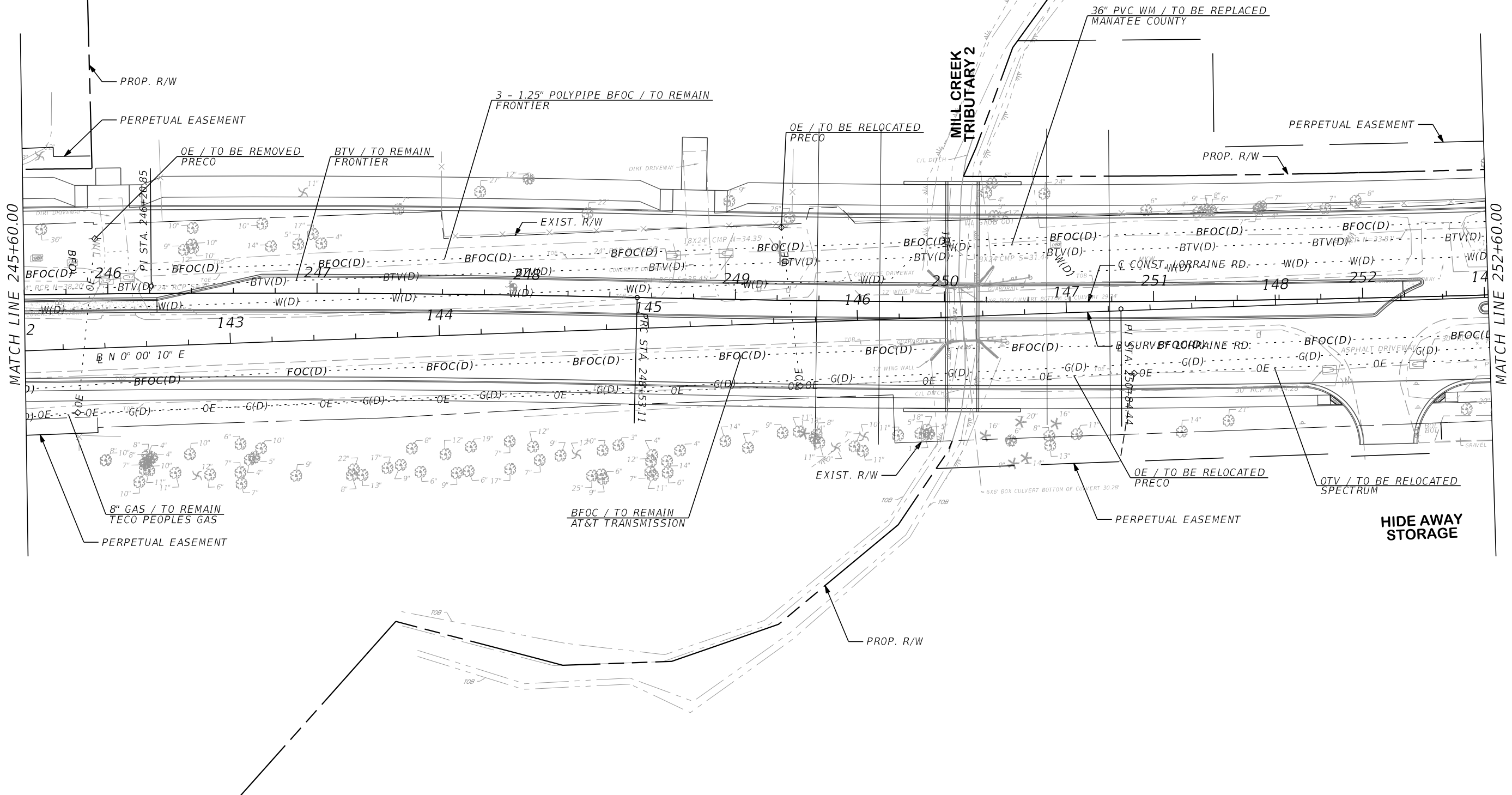
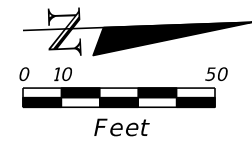
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MATCH LINE 245+60.00

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SCALE	AS NOTED																
DESIGNED BY	BLZ																
DRAWN BY	TME																
CHECKED BY	BLZ																
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No.	REVISIONS	DATE	BY														

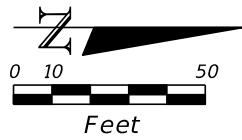
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LORRAINE ROAD

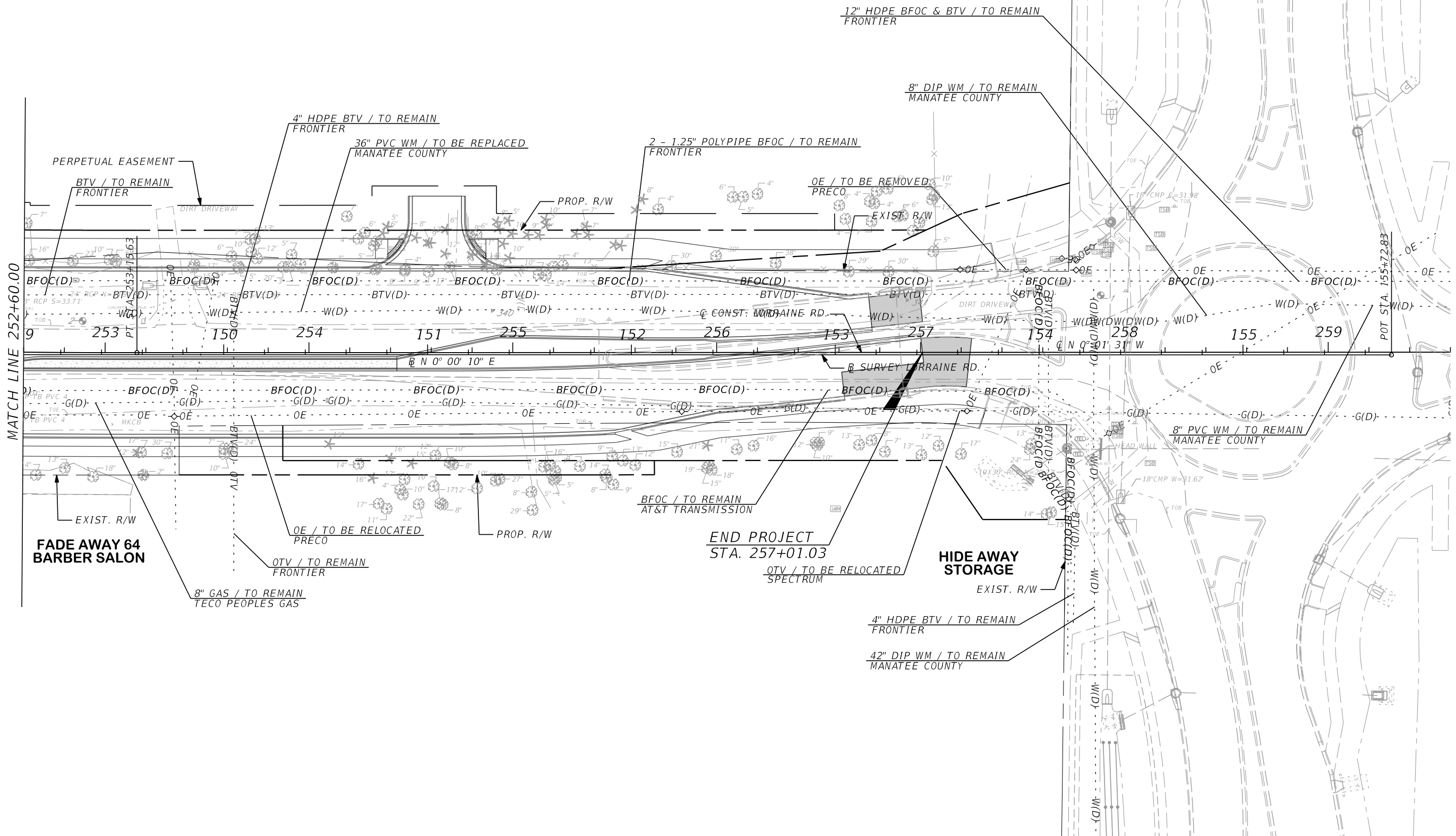


SCALE AS NOTED DESIGNED BY BLZ DRAWN BY TME CHECKED BY BLZ				HDR Engineering, Inc. 4830 W. Kennedy Blvd. Suite 400 Tampa, FL 33609-2548		DATE 09/2022 PROJECT NO. 6107660		MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN ZIMMERMAN FL. LICENSE NO. 78557		UTILITY ADJUSTMENTS (21)		SHEET NO. 284	
No.	REVISIONS			DATE	BY										

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LORRAINE ROAD




No.	REVISIONS	DATE	BY

SCALE AS NOTED

DESIGNED BY BLZ

DRAWN BY TME

CHECKED BY BLZ



HDR Engineering, Inc.
4830 W. Kennedy Blvd.
Suite 400
Tampa, FL 33609-2548

DATE	09/2022
PROJECT NO.	6107660



MANATEE COUNTY
PUBLIC WORKS

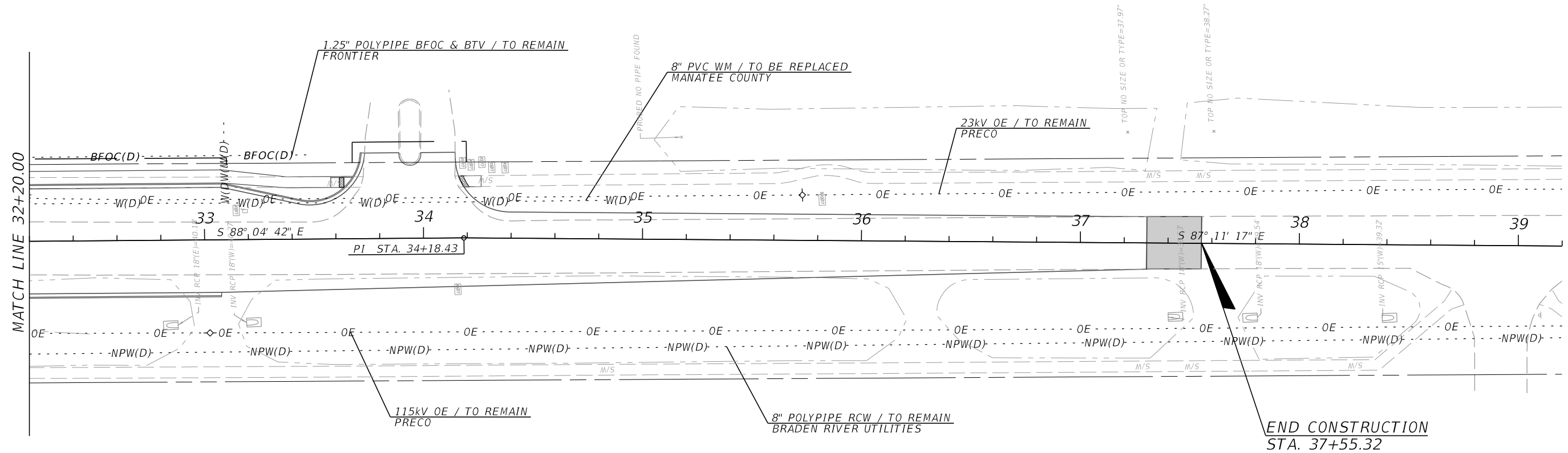
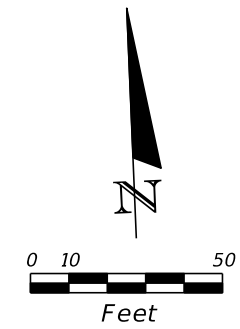
DESIGN ENGINEER	BRIAN ZIMMERMAN
FL. LICENSE NO.	78557



UTILITY ADJUSTMENTS
(22)

SHEET NO.	285
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59TH AVE E



SCALE AS NOTED DESIGNED BY BLZ DRAWN BY JMA CHECKED BY JLS				 HDR ENGINEERING, INC. 4830 W KENNEDY BLVD, SUITE 400 TAMPA, FL 33609		DATE 11/2022 PROJECT NO. 6107660		 MANATEE COUNTY PUBLIC WORKS		DESIGN ENGINEER BRIAN L. ZIMMERMAN FL. LICENSE NO. 78557		UTILITY ADJUSTMENTS (23)		SHEET NO. 286	
No.	REVISIONS	DATE	BY												

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