

COMPONENTS OF CONTRACT PLANS SET

- ROADWAY PLANS
- SIGNING AND PAVEMENT MARKING PLANS
- SIGNALIZATION PLANS
- ITS PLANS
- LIGHTING PLANS

INDEX OF ROADWAY PLANS

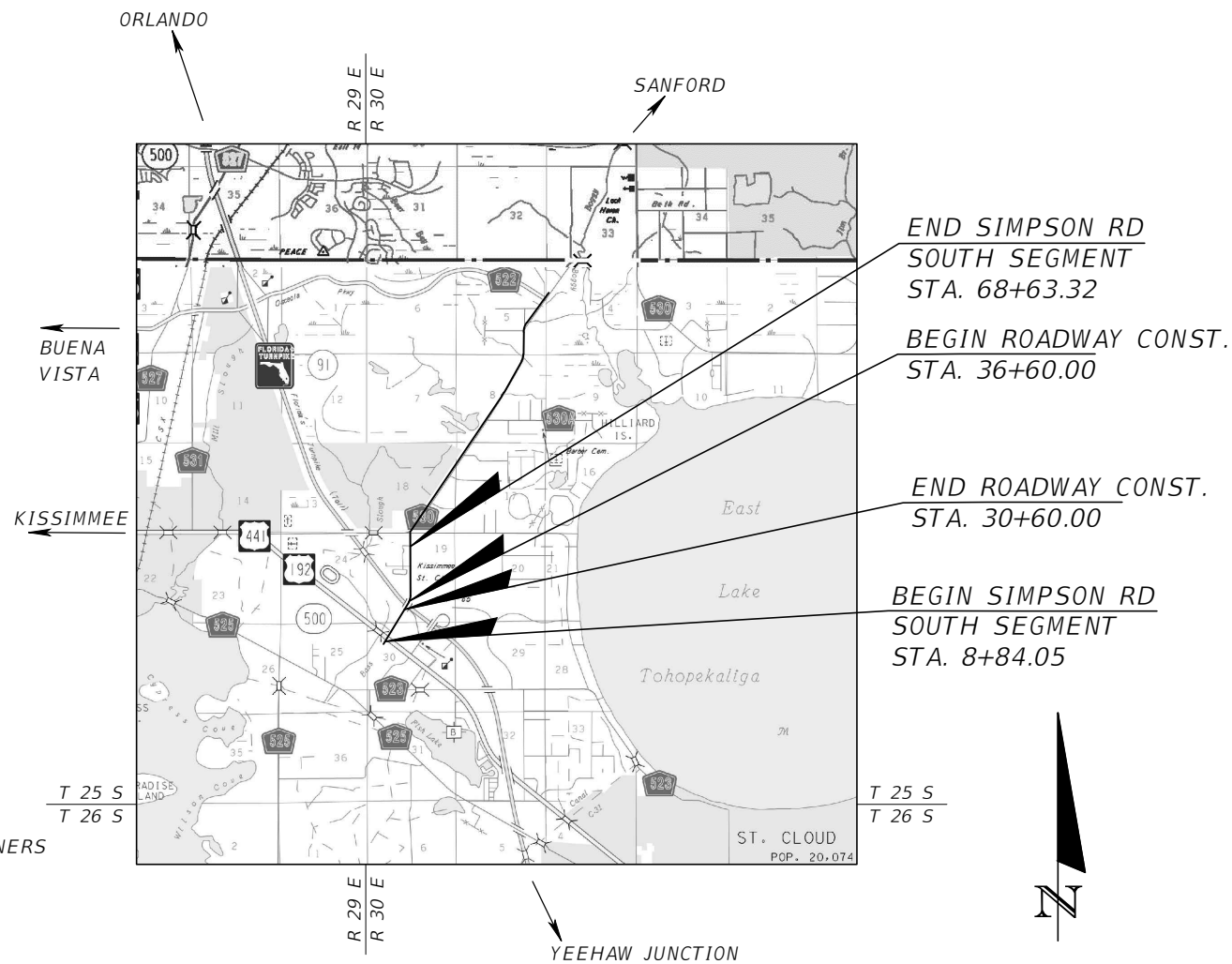
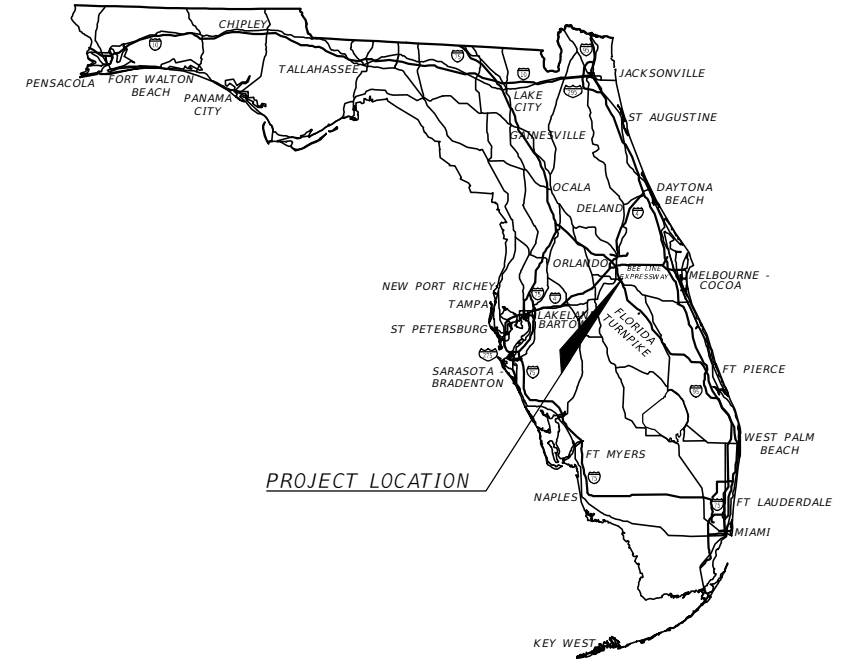
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OSCEOLA COUNTY, FLORIDA
TRANSPORTATION AND TRANSIT

CONTRACT PLANS

SIMPSON RD - SOUTH SEGMENT
US 192 TO SOUTH OF FORTUNE RD.
IMPROVEMENT PLANS



END SIMPSON RD SOUTH SEGMENT STA. 68+63.32
 BEGIN ROADWAY CONST. STA. 36+60.00
 END ROADWAY CONST. STA. 30+60.00
 BEGIN SIMPSON RD SOUTH SEGMENT STA. 8+84.05

SHOP DRAWINGS TO BE SUBMITTED TO:
 MARK F. BERTONCINI, P.E.
 VANASSE HANGEN BRUSTLIN, INC.
 225 E. ROBINSON STREET, SUITE 300
 ORLANDO, FL 32801

PLANS PREPARED BY:

 Engineers | Scientists
 Planners | Designers
 225 E. Robinson Street, Suite 300
 Orlando, FL 32801 (407)839-4006
 Certificate of Authorization # 3932

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

ROADWAY PLANS
 PROFESSIONAL OF RECORD: MARK F. BERTONCINI, P.E.
 P.E. NO.: 63437

DRAINAGE PLANS
 PROFESSIONAL OF RECORD: PAUL W. YEARGAIN, P.E.
 P.E. NO.: 50682

OSCEOLA COUNTY TRANSPORTATION AND TRANSIT
 BRANDON ARRINGTON CHAIRMAN OF THE BOARD OF COUNTY COMMISSIONERS
 VIVIANA JANER VICE CHAIRWOMAN OF THE BOARD OF COUNTY COMMISSIONERS
 PEGGY CHOUDHRY COUNTY COMMISSIONER
 RICKY BOOTH COUNTY COMMISSIONER
 CHERYL GRIEB COUNTY COMMISSIONER
 DON FISHER COUNTY MANAGER
 TAWNY H OLORE, P.E. DIRECTOR OF TRANSPORTATION AND TRANSIT

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.shtm>
 APPLICABLE IRs: IR536-001-01, IR521-001-01
 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>

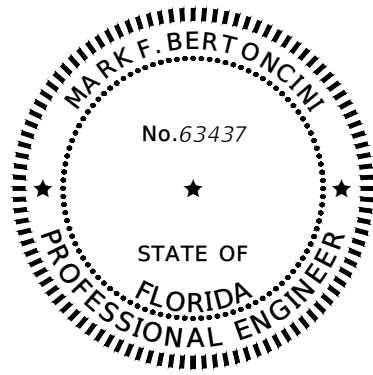
FINAL PLANSET
 DATE: January 16, 2023

OSCEOLA COUNTY PROJECT MANAGER: STEVEN KANE, P.E.

NOTE:
 STA. 24+93.92 TO STA. 41+76.50
 BY OTHERS (FTE SR 91 WIDENING
 PROJECT FPN 436164-1-58-02)

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.



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY:

ON THE DATE ADJACENT TO THE SEAL

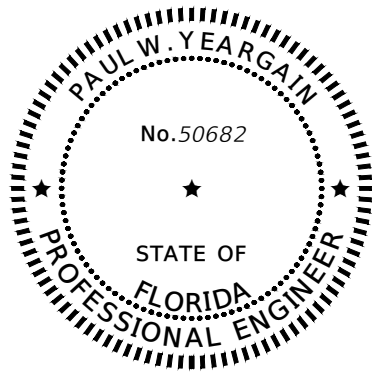
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VANASSE HANGEN BRUSTLIN, INC.
225 E. ROBINSON STREET, SUITE 300
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION: 3932
MARK F. BERTONCINI, P.E. NO. 63437

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

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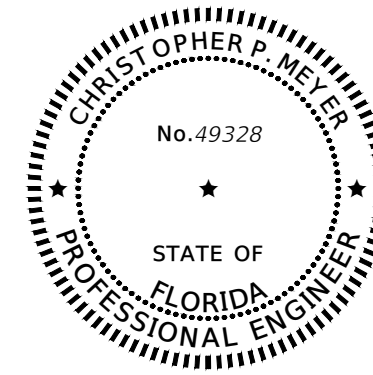
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VANASSE HANGEN BRUSTLIN, INC.
225 E. ROBINSON STREET, SUITE 300
ORLANDO, FL 32801
CERTIFICATE OF AUTHORIZATION: 3932
PAUL W. YEARGAIN, P.E. NO. 50682

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

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125 - 126	STORMWATER POLLUTION PREVENTION PLANS 1-2



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ON THE DATE ADJACENT TO THE SEAL

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GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.
2510 MICHIGAN AVENUE, SUITE D
KISSIMMEE, FL 34744-1933
CERTIFICATE OF AUTHORIZATION: 5882
CHRISTOPHER P. MEYER, P.E. NO. 49328

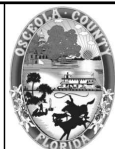
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineers | Scientists
Planners | Designers
225 E. Robinson Street, Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization # 3932
Mark F. Bertoncini, P.E.
PE # 63437



OSCEOLA COUNTY
FLORIDA


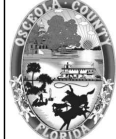
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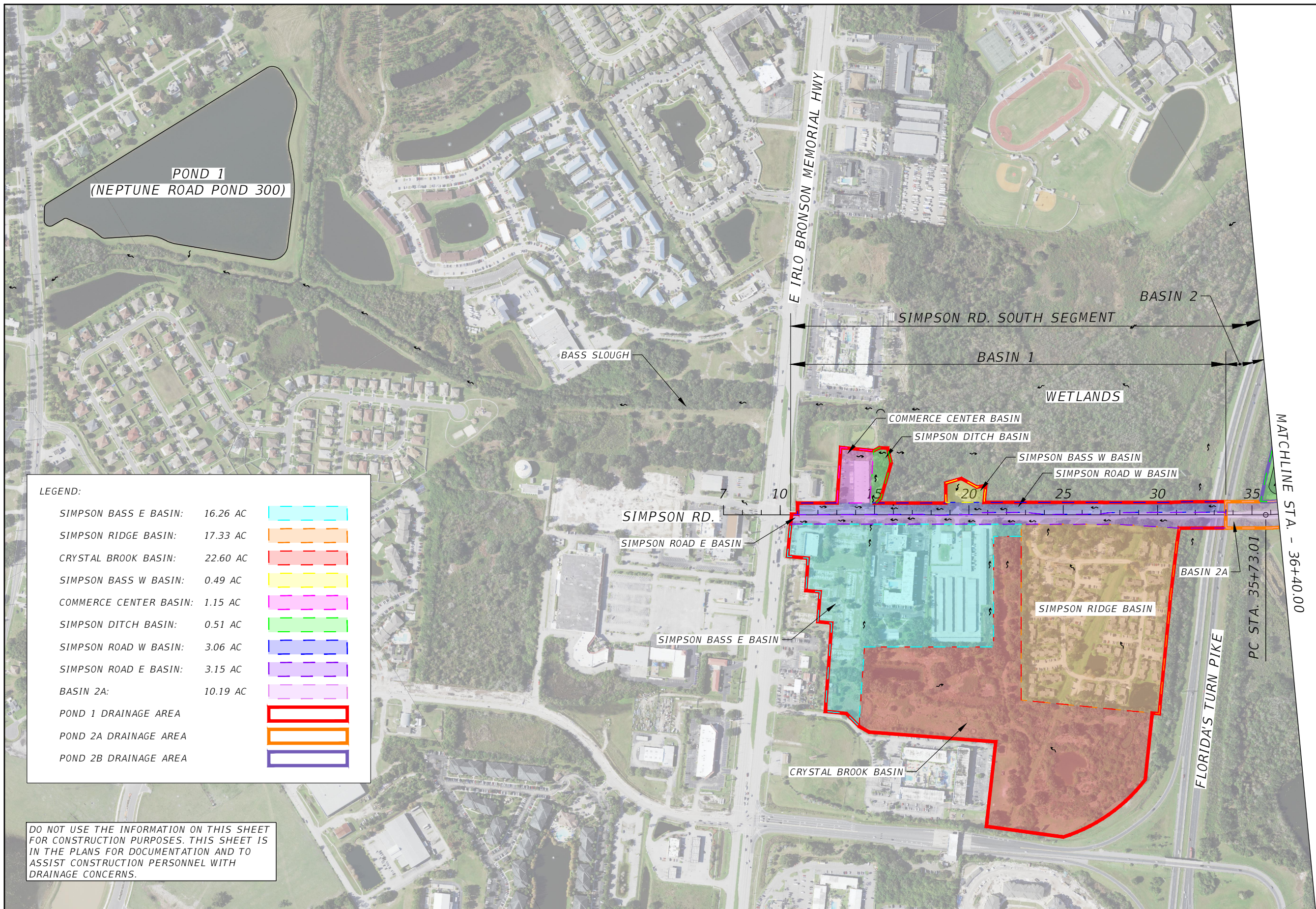
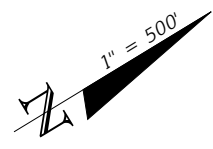
SHEET NO.
2

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FDOT PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QTY	FDOT PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QTY	FDOT PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QTY
0101 1	MOBILIZATION	LS	1	0524 1 2	CONCRETE DITCH PAVEMENT, NON REINFORCED, 4"	SY	5	0663 1122	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, DETECTOR	EA	3
0102 1	MAINTENANCE OF TRAFFIC	LS	1	0527 2	DETECTABLE WARNINGS	SF	977	0665 1 11	PEDESTRIAN DETECTOR, FURNISH & INSTALL, STANDARD	EA	24
0102 60	WORK ZONE SIGN	ED	8,700	0530 3 4	RIPRAP, RUBBLE, F&I, DITCH LINING	TN	22.0	0670 5111	TRAFFIC CONTROLLER ASSEMBLY, F&I, NEMA, 1 PREEMPTION	AS	2
0102 61	BUSINESS SIGN	EA	6	0536 1 1	GUARDRAIL -ROADWAY, GENERAL TL-3	LF	302	0685 1 13	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE WITH CABINET	EA	2
0102 71 13	TEMPORARY BARRIER, F&I, LOW PROFILE, CONCRETE	LF	3,388	0536 5 1	RUB RAIL FOR GUARDRAIL, SINGLE SIDED RUB RAIL	LF	302	0676 2122	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA	1
0102 71 23	TEMPORARY BARRIER, RELOCATE, LOW PROFILE CONCRETE	LF	3,388	0536 8112	GUARDRAIL TRANSITION CONNECTION TO RIGID BARRIER, F&I- INDEX 536-001, APPROACH TL-3	EA	3	0682 1113	ITS CCTV CAMERA, F&I, DOME PTZ ENCLOSURE - PRESSURIZED, IP, HIGH DEFINITION	EA	3
0102 74 1	CHANNELIZING DEVICE- TYPES I, II, DI, VP, DRUM, OR LCD	ED	90,625	0536 85 20	GUARDRAIL END TREATMENT- TRAILING ANCHORAGE	EA	1	0682 1400	ITS CCTV CAMERA, RELOCATE	EA	1
0102 76	ARROW BOARD / ADVANCE WARNING ARROW PANEL	ED	1,450	0536 85 24	GUARDRAIL END TREATMENT- PARALLEL APPROACH TERMINAL	EA	2	0684 1 1	MANAGED FIELD ETHERNET SWITCH, FURNISH & INSTALL	EA	3
0102 99	PORTABLE CHANGEABLE MESSAGE SIGN, TEMPORARY	ED	1,450	0550 10228	FENCING, TYPE B, 5.1-6.0, RESET EXISTING	LF	320	0685 1 11	UNINTERRUPTIBLE POWER SUPPLY, FURNISH AND INSTALL, LINE INTERACTIVE	EA	1
0102104	TEMPORARY SIGNALIZATION AND MAINTENANCE, INTERSECTION	ED	725	0550 10220	FENCING, TYPE B, 5.1-6.0, STANDARD	LF	1,300	0700 1 11	SINGLE POST SIGN, F&I GROUND MOUNT, UP TO 12 SF	AS	31
0102107 1	TEMPORARY TRAFFIC DETECTION AND MAINTENANCE, INTERSECTION	ED	725	0550 60223	FENCE GATE, TYPE B, DOUBLE, 12.1-18.0' OPENING	EA	1	0700 1 12	SINGLE POST SIGN, F&I GROUND MOUNT, 12-20 SF	AS	18
0102 2200	SPECIAL DETOUR- TEMPORARY PAVEMENT	SY	7,000	0570 1 2	PERFORMANCE TURF, SOD	SY	81,668	0700 1 60	SINGLE POST SIGN, REMOVE	AS	32
0104 10 3	SEDIMENT BARRIER	LF	15,382	0591 1200	IRRIGATION SLEEVE, 2" DIAMETER	LF	233	0700 2 60	MULTI- POST SIGN, REMOVE	AS	3
0104 11	FLOATING TURBIDITY BARRIER	LF	261	0591 1400	IRRIGATION SLEEVE, 4" DIAMETER	LF	45	0700 3201	SIGN PANEL, FURNISH & INSTALL OVERHEAD MOUNT, UP TO 12 SF	EA	1
0104 15	SOIL TRACKING PREVENTION DEVICE	EA	2	0591 1600	IRRIGATION SLEEVE, 6" DIAMETER	LF	233	0700 5 22	INTERNALLY ILLUMINATED SIGN, FURNISH & INSTALL, OVERHEAD MOUNT, 12-18 SF	EA	11
0104 18	INLET PROTECTION SYSTEM	EA	69	0630 2 11	CONDUIT, FURNISH & INSTALL, OPEN TRENCH	LF	3,156	0704 1 2	TUBULAR MARKER, DURABLE, 36" YELLOW POST	EA	3
0107 1	LITTER REMOVAL	AC	467.28	0630 2 12	CONDUIT, FURNISH & INSTALL, DIRECTIONAL BORE	LF	5,370	0705 10 1	OBJECT MARKER, TYPE 1	EA	7
0107 2	MOWING	AC	273.35	0632 7 1	SIGNAL CABLE- NEW OR RECONSTRUCTED INTERSECTION, FURNISH & INSTALL	PI	3	0706 1 3	RAISED PAVEMENT MARKER, TYPE B	EA	484
0110 1 1	CLEARING & GRUBBING	AC	17.45	0633 1123	FIBER OPTIC CABLE, F&I, UNDERGROUND,49-96 FIBERS	LF	5,640	0710 90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS	1
0110 4 10	REMOVAL OF EXISTING CONCRETE	SY	1,170	0633 1620	FIBER OPTIC CABLE, REMOVE, UNDERGROUND	LF	665	0710 11101	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID, 6"	GM	9,000
0120 1	REGULAR EXCAVATION	CY	72,467.1	0633 2 31	FIBER OPTIC CONNECTION, INSTALL, SPLICE	EA	132	0710 11123	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR CROSSWALK AND ROUNDABOUT, 12"	LF	1,500
0120 4	SUBSOIL EXCAVATION	CY	616.0	0633 3 11	FIBER OPTIC CONNECTION HARDWARE, F&I, SPLICE ENCLOSURE	EA	4	0710 11124	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR DIAGONAL OR CHEVRON, 18"	LF	200
0120 6	EMBANKMENT	CY	20,073.9	0633 3 15	FIBER OPTIC CONNECTION HARDWARE, F&I, PRETERMINATED PATCH PANEL	EA	3	0710 11125	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, SOLID FOR STOP LINE OR CROSSWALK, 24"	LF	1,500
0125 1	EXCAVATION FOR STRUCTURES	CY	351.4	0633 3 51	FIBER OPTIC CONNECTION HARDWARE, ADJUST/MODIFY SPLICE ENCLOSURE	EA	1	0710 11131	PAINTED PAVEMENT MARKING, STANDARD, WHITE, 3'-9" SKIP DROP LINE AND APPROACH TO TOLL PLAZA, 12" WIDE,	GM	1,500
0125 3	SELECT BEDDING MATERIAL	CY	292.8	0633 8 1	MULTI-CONDUCTOR COMMUNICATION CABLE, FURNISH & INSTALL	LF	40	0710 11133	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 DOTTED EXTENSION, 6"	GM	1,500
0160 4	TYPE B STABILIZATION	SY	41,311	0635 2 11	PULL & SPLICE BOX, F&I, 13" X 24" COVER SIZE	EA	49	0710 11141	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	10
0285703	OPTIONAL BASE, BASE GROUP 03	SY	2,930	0635 2 12	PULL & SPLICE BOX, F&I, 24" X 36" COVER SIZE	EA	5	0710 11170	PAINTED PAVEMENT MARKINGS, STANDARD, WHITE, ARROWS	EA	45
0285711	OPTIONAL BASE, BASE GROUP 11	SY	31,303	0635 2 13	PULL & SPLICE BOX, F&I, 30" X 60" RECTANGULAR OR 36" ROUND COVER SIZE	EA	3	0710 11201	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, SOLID, 6"	GM	9,000
0327 70 6	MILLING EXISTING ASPHALT PAVEMENT, 1 1/2" AVG DEPTH	SY	3,808	0639 1122	ELECTRICAL POWER SERVICE, F&I, UNDERGROUND, METER PURCHASED BY CONTRACTOR	AS	5	0710 11224	PAINTED PAVEMENT MARKINGS, STANDARD, YELLOW, ISLAND NOSE	SF	100
0334 1 12	SUPERPAVE ASPHALTIC CONC, TRAFFIC B	TN	242.0	0639 2 1	ELECTRICAL SERVICE WIRE, FURNISH & INSTALL	LF	454	0711 11102	THERMOPLASTIC, STANDARD, WHITE, SOLID, 8" FOR INTERCHANGE AND URBAN ISLAND	GM	0.025
0334 1 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	6,304.0	0639 3 11	ELECTRICAL SERVICE DISCONNECT, F&I, POLE MOUNT	EA	1	0711 11103	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR INTERCHANGE MARKINGS	GM	0.090
0337 7 83	ASPHALT CONCRETE FRICTION COURSE,TRAFFIC C, FC-12.5, PG 76-22	TN	1,506.0	0641 2 11	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II PEDESTAL	EA	1	0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR CROSSWALK AND ROUNDABOUT	LF	2,802
0400 0 11	CONCRETE CLASS NS, GRAVITY WALL INDEX 400-011	CY	152.1	0641 2 12	PRESTRESSED CONCRETE POLE, F&I, TYPE P-II SERVICE POLE	EA	4	0711 11124	THERMOPLASTIC, STANDARD, WHITE, SOLID, 18" FOR DIAGONALS AND CHEVRONS	LF	8
0425 10	YARD DRAIN	EA	1	0641 2 60	PRESTRESSED CONCRETE POLE, COMPLETE POLE REMOVAL- PEDESTAL/SERVICE POLE	EA	1	0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	453
0425 1351	INLETS, CURB, TYPE P-5, <10'	EA	38	0641 2 70	PRESTRESSED CONCRETE POLE, SHALLOW POLE REMOVAL- POLE 30' AND GREATER	EA	2	0711 11141	THERMOPLASTIC, STANDARD, WHITE, 2-4 DOTTED GUIDELINE/ 6-10 GAP EXTENSION, 6"	GM	0.082
0425 1361	INLETS, CURB, TYPE P-6, <10'	EA	9	0641 3169	CONCRETE CCTV POLE, FURNISH & INSTALL WITH LOWERING DEVICE, 69'	EA	1	0711 11160	THERMOPLASTIC, STANDARD, WHITE, MESSAGE OR SYMBOL	EA	17
0425 1451	INLETS, CURB, TYPE J-5, <10'	EA	12	0646 1 11	ALUMINUM SIGNALS POLE, PEDESTAL	EA	13	0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA	58
0425 1461	INLETS, CURB, TYPE J-6, <10'	EA	2	0646 1 12	ALUMINUM SIGNALS POLE, FURNISH & INSTALL PEDESTRIAN DETECTOR POST	EA	1	0711 11224	THERMOPLASTIC, STANDARD, YELLOW, SOLID, 18" FOR DIAGONAL OR CHEVRON	LF	161
0425 1531	INLETS, DITCH BOTTOM, TYPE C MODIFIED- BACK OF SIDEWALK, <10'	EA	7	0646 1 60	ALUMINUM SIGNALS POLE, REMOVE	EA	2	0711 14125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF	1,260
0425 1581	INLETS, DT BOT, TYPE H, <10'	EA	1	0649 21 3	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 40'	EA	1	0711 16101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM	1,457
0425 2 41	MANHOLES, P-7, <10'	EA	8	0649 21 6	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 50'	EA	1	0711 16131	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SKIP, 6",10-30 SKIP OR 3-9 LANE DROP	GM	0.853
0425 2 71	MANHOLES, J-7, <10'	EA	7	0649 21 9	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, DOUBLE ARM 50'-50'	EA	2	0711 16133	THERMOPLASTIC, STANDARD-OTHER SURFACES WHITE, SKIP, 12"- APPROACH TO TOLL PLAZA OR 3-9 LANE DROP	GM	0.051
0425 2 91	MANHOLES, J-8, <10'	EA	9	0649 21 10	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 60'	EA	1	0711 16201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	1,231
0430175112	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 12"S/CD	LF	16	0649 21 12	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, DOUBLE ARM 60'-40'	EA	1	0711 17 1	THERMOPLASTIC, REMOVE EXISTING THERMOPLASTIC PAVEMENT MARKINGS- SURFACE TO REMAIN	SF	400
0430175115	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 15"S/CD	LF	45	0649 21 15	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 70'	EA	2	0715 1 12	LIGHTING CONDUCTORS, F&I, INSULATED, NO.8 - 6	LF	5,637
0430175118	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 18"S/CD	LF	2,839	0649 21 15	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 70'	EA	2	0715 5 31	LUMINAIRE & BRACKET ARM- ALUMINUM, FURNISH & INSTALL NEW LUMINAIRE AND ARM ON NEW/EXISTING POLE	EA	9
0430175124	PIPE CULVERT,OPTIONAL MATERIAL,ROUND, 24"S/CD	LF	656	0649 21 21	STEEL MAST ARM ASSEMBLY, FURNISH AND INSTALL, SINGLE ARM 78'	EA	1	0715 61411	LIGHT POLE COMPLETE, F&I, STANDARD POLE STANDARD FOUNDATION, 45' MOUNTING HEIGHT, 8' ARM LENGTH	EA	3
0430175130	PIPE CULVERT, OPT MATERIAL, ROUND, 30"S/CD	LF	506	0650 1 14	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 3 SECTION, 1 WAY	AS	32	0715 69000	LIGHT POLE COMPLETE, REMOVE POLE AND FOUNDATION	EA	2
0430175136	PIPE CULVERT, OPT MATERIAL, ROUND, 36"S/CD	LF	1,577	0650 1 16	VEHICULAR TRAFFIC SIGNAL, FURNISH & INSTALL ALUMINUM, 4 SECTION, 1 WAY	AS	7	0715 7 11	LOAD CENTER, F&I, SECONDARY VOLTAGE	EA	1
0430175142	PIPE CULVERT, OPT MATERIAL, ROUND, 42"S/CD	LF	308	0653 1 11	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 1 WAY	AS	6	0715500 1	POLE CABLE DISTRIBUTION SYSTEM, FURNISH AND INSTALL, CONVENTIONAL	EA	3
0430175148	PIPE CULVERT, OPT MATERIAL, ROUND, 48"S/CD	LF	650	0653 1 12	PEDESTRIAN SIGNAL, FURNISH & INSTALL LED COUNTDOWN, 2 WAYS	AS	9				
0430175154	PIPE CULVERT, OPT MATERIAL, ROUND, 54"S/CD	LF	1,041	0660 3 11	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL CABINET EQUIPMENT	EA	1				
0430175215	PIPE CULVERT,OPTIONAL MATERIAL,OTHER-ELIP/ARCH, 15"S/CD	LF	4	0660 3 12	VEHICLE DETECTION SYSTEM- MICROWAVE, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	3				
0430175218	PIPE CULVERT,OPTIONAL MATERIAL,OTHER-ELIP/ARCH, 18"S/CD	LF	24	0660 4 11	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL CABINET EQUIPMENT	EA	2				
0430175224	PIPE CULVERT,OPTIONAL MATERIAL,OTHER SHAPE-ELIP/ARCH, 24"S/CD	LF	601	0660 4 12	VEHICLE DETECTION SYSTEM- VIDEO, FURNISH & INSTALL ABOVE GROUND EQUIPMENT	EA	9				
0430175230	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 30"S/CD	LF	869	0666 6121	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, CABINET EQUIPMENT	EA	1				
0430175248	PIPE CULVERT, OPT MATERIAL, OTHER SHAPE - ELIP/ARCH, 48"S/CD	LF	568	0666 6122	VEHICLE DETECTION SYSTEM- AVI, BLUETOOTH, FURNISH & INSTALL, ABOVE GROUND EQUIPMENT	EA	1				
0430548102	STRAIGHT CONCRETE ENDWALLS, 48" SINGLE, 0 DEGREES, ELLIPTICAL	EA	2	0663 1121	SIGNAL PRIORITY AND PREEMPTION SYSTEM, FURNISH AND INSTALL, GPS, REPLACE CABINET ELECTRONICS	EA	3				
0430982123	MITERED END SECTION, OPTIONAL ROUND, 15" CD	EA	1								
0430982142	MITERED END SECTION, OPTIONAL ROUND, 54" CD	EA	1								
0430982625	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 18" CD	EA	1								
0430982629	MITERED END SECTION, OPTIONAL - ELLIPTICAL / ARCH, 24" CD	EA	1								
0430984633	MITERED END SECT, OPTIONAL /ELLIP/ARCH, 30" SD	EA	1								
0515 1 2	PIPE HANDRAIL - GUIDERAIL, ALUMINUM	LF	778								
0520 1 7	CONCRETE CURB & GUTTER, TYPE E	LF	4,227								
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	7,988								
0520 2 2	CONCRETE CURB, TYPE B	LF	19								
0520 5 11	TRAFFIC SEPARATOR CONCRETE-TYPE I, 4' WIDE	LF	485								
0522 1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	7,529								
0522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	224								

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REVISIONS				 Engineers Scientists Planners Designers 225 E. Robinson Street, Suite 300 Orlando, FL 32801 (407)839-4006 Certificate of Authorization # 3932 Mark F. Bertocini, P.E. PE # 63437	 OSCEOLA COUNTY FLORIDA	SUMMARY OF PAY ITEMS	SHEET NO. 3
DATE	DESCRIPTION	DATE	DESCRIPTION				



LEGEND:

SIMPSON BASS E BASIN:	16.26 AC	
SIMPSON RIDGE BASIN:	17.33 AC	
CRYSTAL BROOK BASIN:	22.60 AC	
SIMPSON BASS W BASIN:	0.49 AC	
COMMERCE CENTER BASIN:	1.15 AC	
SIMPSON DITCH BASIN:	0.51 AC	
SIMPSON ROAD W BASIN:	3.06 AC	
SIMPSON ROAD E BASIN:	3.15 AC	
BASIN 2A:	10.19 AC	
POND 1 DRAINAGE AREA		
POND 2A DRAINAGE AREA		
POND 2B DRAINAGE AREA		

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Planners | Designers
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Certificate of Authorization # 3932
Paul W. Yeagain, P.E.
PE # 50682

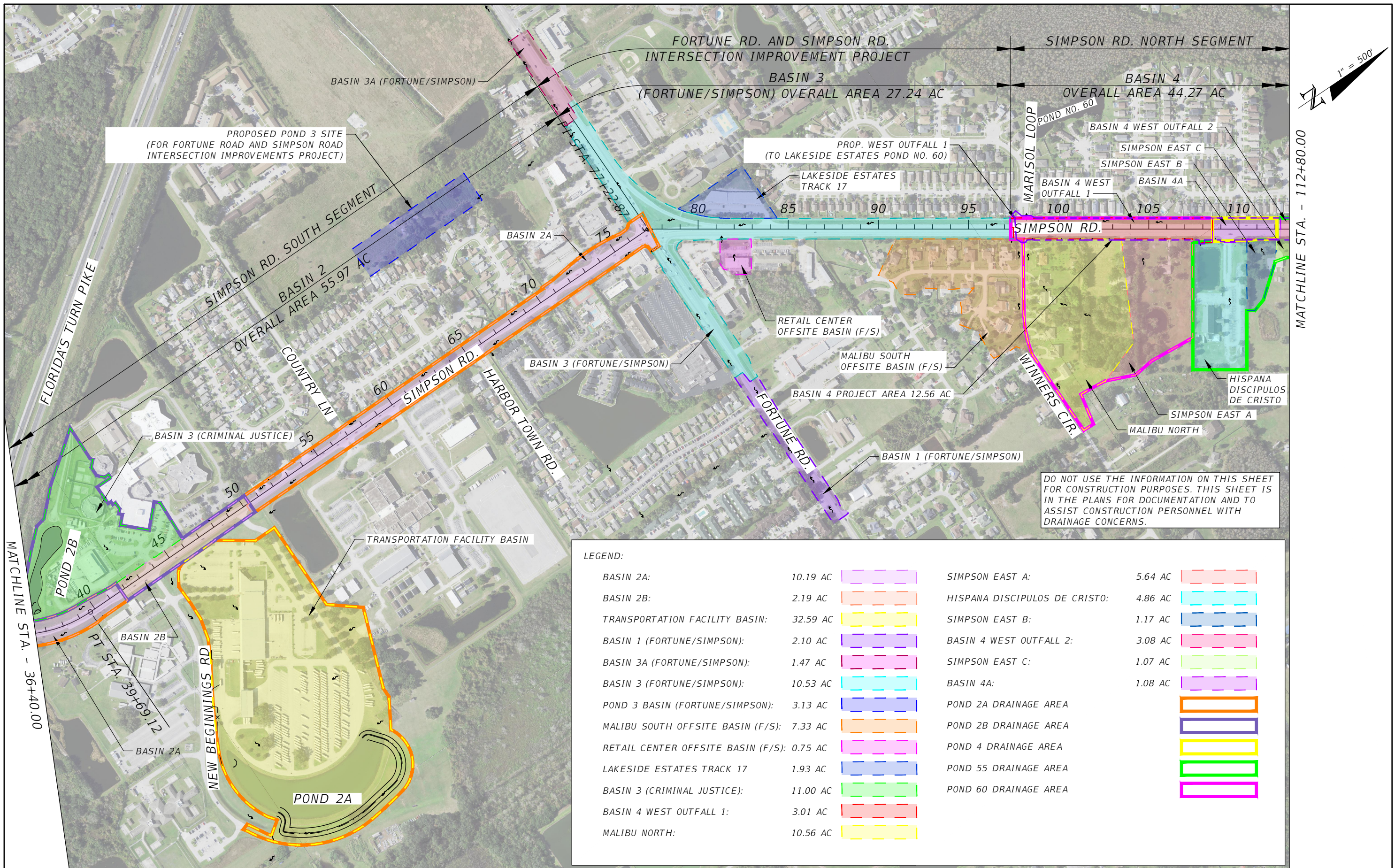


OSCEOLA COUNTY
FLORIDA

PROPOSED DRAINAGE MAP
SHEET 1

SHEET NO.
4

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PROPOSED POND 3 SITE
(FOR FORTUNE ROAD AND SIMPSON ROAD
INTERSECTION IMPROVEMENTS PROJECT)

PROP. WEST OUTFALL 1
(TO LAKESIDE ESTATES POND NO. 60)

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FOR CONSTRUCTION PURPOSES. THIS SHEET IS
IN THE PLANS FOR DOCUMENTATION AND TO
ASSIST CONSTRUCTION PERSONNEL WITH
DRAINAGE CONCERNS.

LEGEND:

BASIN 2A:	10.19 AC		SIMPSON EAST A:	5.64 AC	
BASIN 2B:	2.19 AC		HISPANA DISCIPULOS DE CRISTO:	4.86 AC	
TRANSPORTATION FACILITY BASIN:	32.59 AC		SIMPSON EAST B:	1.17 AC	
BASIN 1 (FORTUNE/SIMPSON):	2.10 AC		BASIN 4 WEST OUTFALL 2:	3.08 AC	
BASIN 3A (FORTUNE/SIMPSON):	1.47 AC		SIMPSON EAST C:	1.07 AC	
BASIN 3 (FORTUNE/SIMPSON):	10.53 AC		BASIN 4A:	1.08 AC	
POND 3 BASIN (FORTUNE/SIMPSON):	3.13 AC		POND 2A DRAINAGE AREA		
MALIBU SOUTH OFFSITE BASIN (F/S):	7.33 AC		POND 2B DRAINAGE AREA		
RETAIL CENTER OFFSITE BASIN (F/S):	0.75 AC		POND 4 DRAINAGE AREA		
LAKESIDE ESTATES TRACK 17	1.93 AC		POND 55 DRAINAGE AREA		
BASIN 3 (CRIMINAL JUSTICE):	11.00 AC		POND 60 DRAINAGE AREA		
BASIN 4 WEST OUTFALL 1:	3.01 AC				
MALIBU NORTH:	10.56 AC				

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

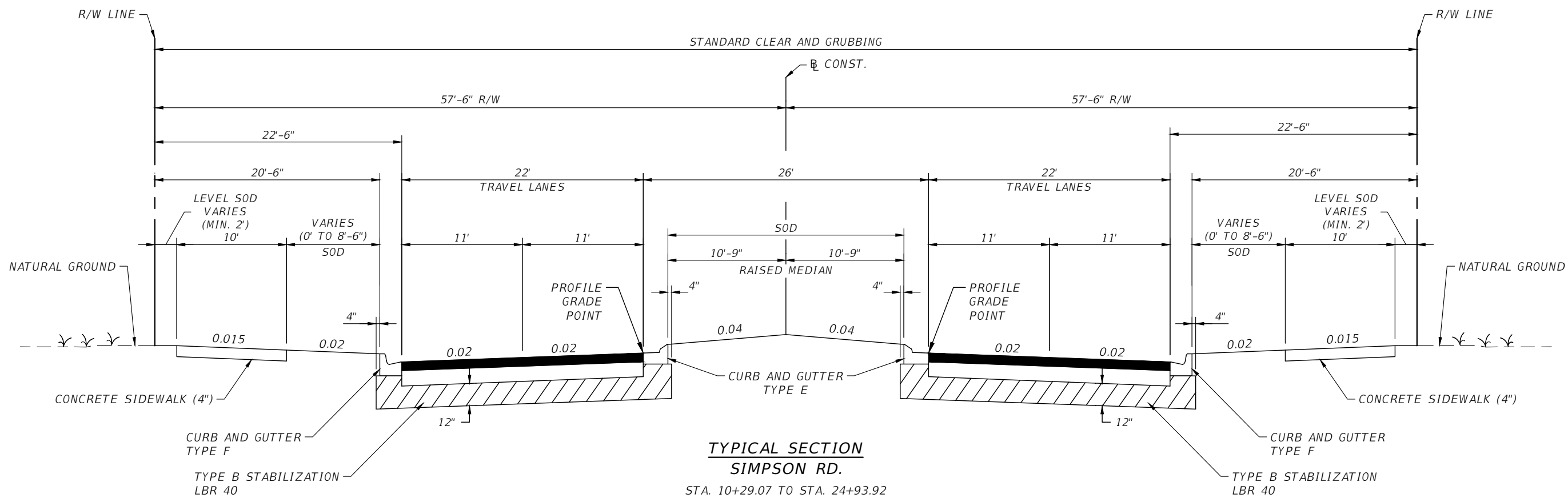
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OSCEOLA COUNTY
FLORIDA

PROPOSED DRAINAGE MAP
SHEET 2

SHEET NO.
5



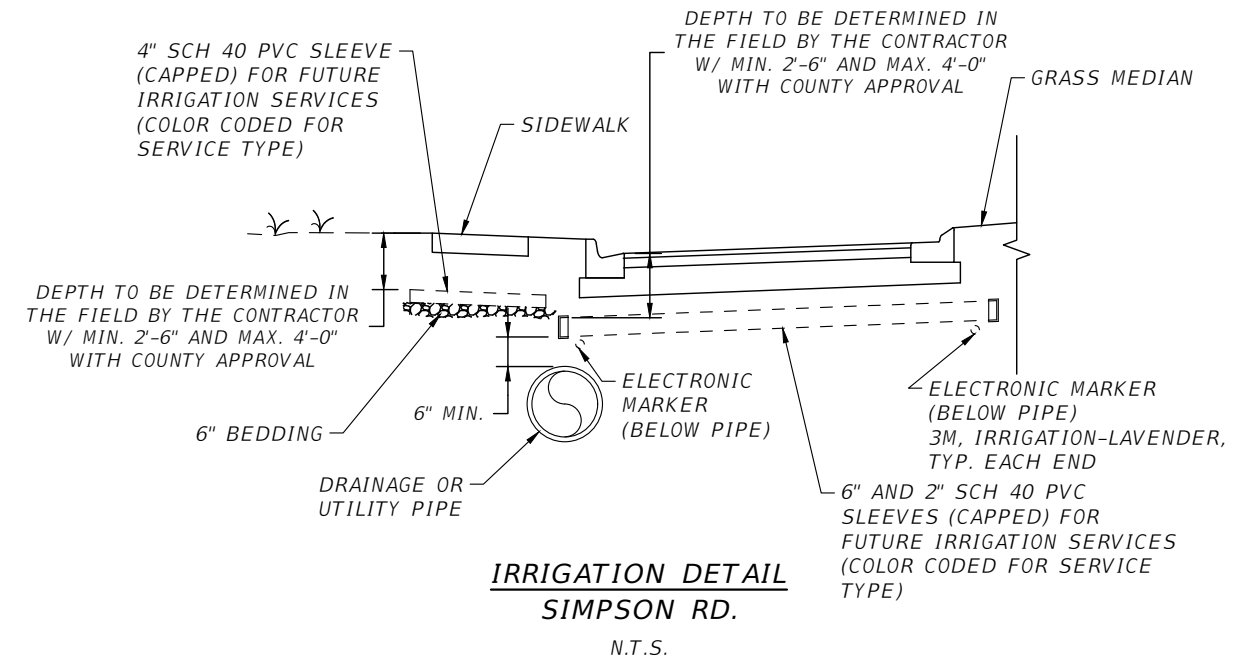
TRAFFIC DATA

CURRENT YEAR	= 2018 AADT = 2400
ESTIMATED OPENING YEAR	= 2025 AADT = 27500
ESTIMATED DESIGN YEAR	= 2045 AADT = 42500
K = 9% D = 54% T = 4% (24 HOUR)	
DESIGN HOUR T	= 2%
DESIGN SPEED	= 45 MPH
POSTED SPEED	= 40 MPH

NOTE:
 FINAL PAVEMENT MARKINGS, FRICTION COURSE AND TRAFFIC SEPARATORS WILL BE CONSTRUCTED BY THE FTE CONTRACTOR BETWEEN STATIONS 18+00 AND 25+00 AND STATIONS 41+80 AND 48+80.

NOTE:
 STA. 24+93.92 TO STA. 41+76.50
 BY OTHERS (FTE SR 91 WIDENING
 PROJECT FPN 436164-1-58-02)

NEW CONSTRUCTION
 FRICTION COURSE FC-12.5 (PG 76-22) (TRAFFIC C) (1.5")
 TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C) (3.5")
 OBG 11 (TYPE B-12.5) (7")



REVISIONS			
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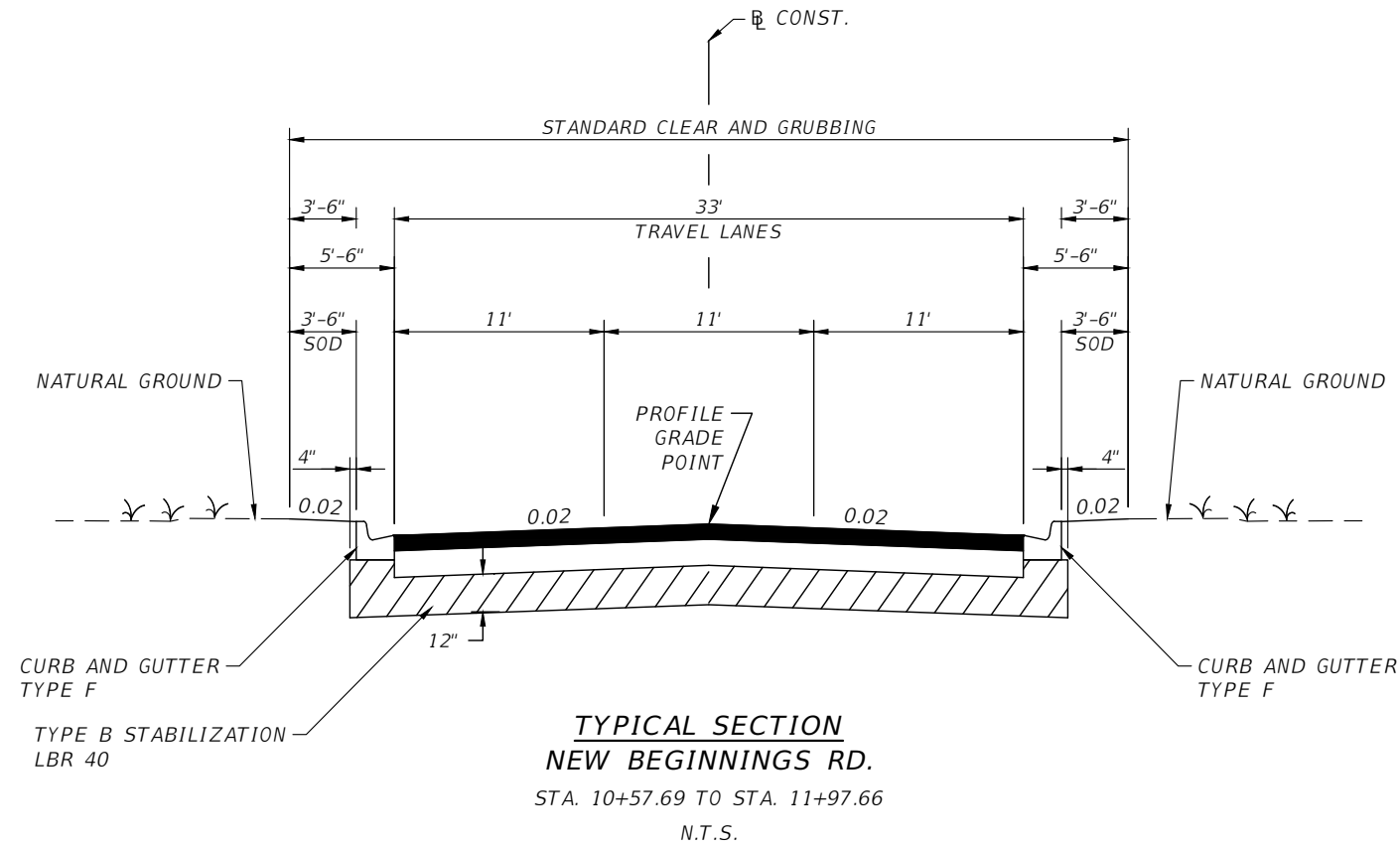


OSCEOLA COUNTY
 FLORIDA

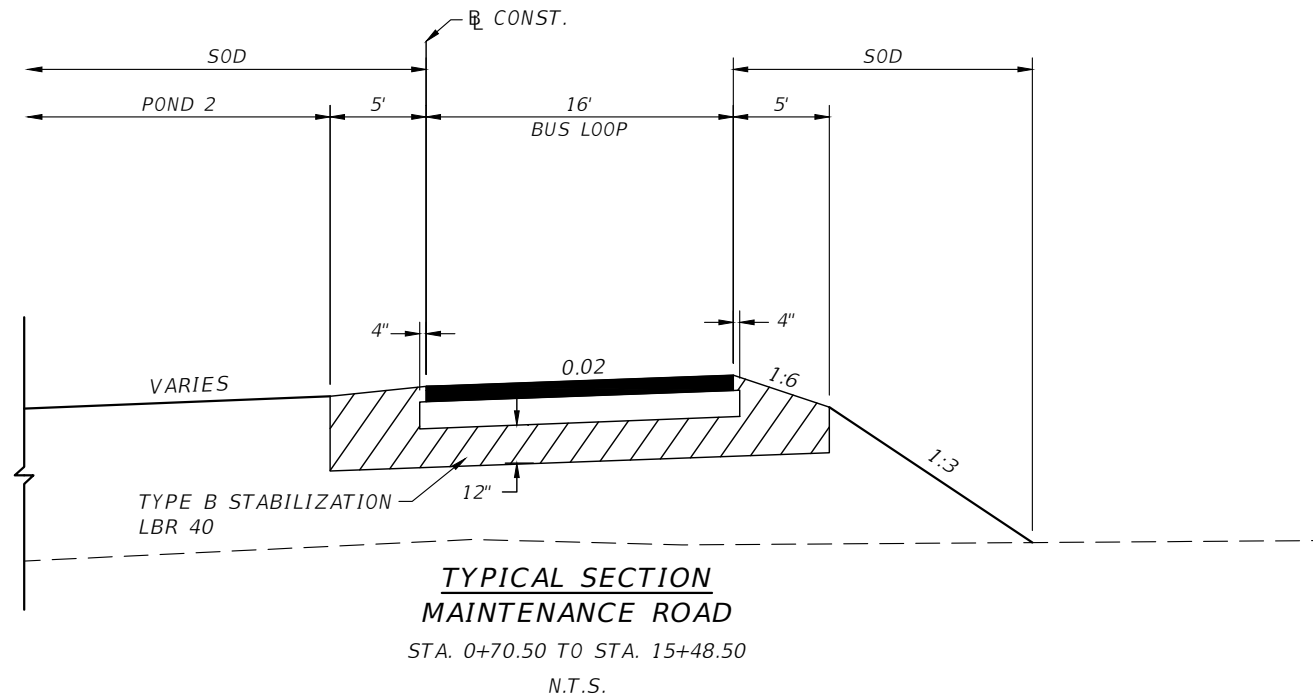
TYPICAL SECTION SHEET 1

SHEET
 NO.
 6

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NEW CONSTRUCTION
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1.5") PG 76-22)
 TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC C) (3")
 OBG II (TYPE B-12.5) (7")



NEW CONSTRUCTION
 TYPE SP-12.5 STRUCTURAL COURSE (TRAFFIC B) (1.5") PG 76-22
 OBG 3
 (STANDARD PLAN 330-001)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION


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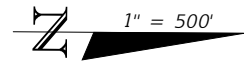


OSCEOLA COUNTY
FLORIDA

TYPICAL SECTION SHEET 2

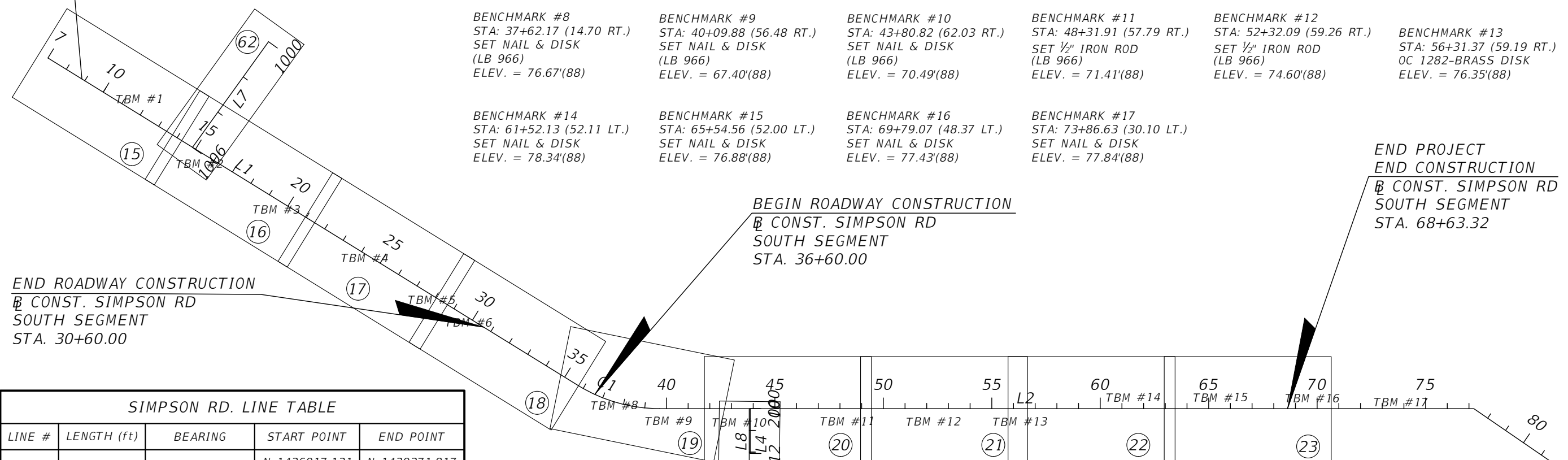
SHEET
NO.

7



BEGIN PROJECT
 BEGIN CONSTRUCTION (TRAFFIC SIGNAL)
 CONST. SIMPSON RD
 SOUTH SEGMENT
 STA. 8+84.05

- | | | | | | |
|--|--|---|---|---|--|
| BENCHMARK #1
STA: 11+56.30 (60.17 LT.)
SET NAIL & DISK
(LB 966)
ELEV. = 66.44'(88) | BENCHMARK #2
STA: 15+51.95 (47.26 RT.)
SET NAIL & DISK
(LB 966)
ELEV. = 63.19'(88) | BENCHMARK #3
STA: 19+64.04 (39.95 RT.)
SET NAIL & DISK
(LB 966)
ELEV. = 63.66'(88) | BENCHMARK #4
STA: 24+27.93 (17.29 RT.)
SET NAIL & DISK
(LB 966)
ELEV. = 65.47'(88) | BENCHMARK #5
STA: 27+91.97 (18.59 RT.)
SET NAIL & DISK
(LB 966)
ELEV. = 72.40'(88) | BENCHMARK #6
STA: 29+91.95 (17.51 RT.)
SET NAIL & DISK
(LB 966)
ELEV. = 80.14'(88) |
| BENCHMARK #8
STA: 37+62.17 (14.70 RT.)
SET NAIL & DISK
(LB 966)
ELEV. = 76.67'(88) | BENCHMARK #9
STA: 40+09.88 (56.48 RT.)
SET NAIL & DISK
(LB 966)
ELEV. = 67.40'(88) | BENCHMARK #10
STA: 43+80.82 (62.03 RT.)
SET NAIL & DISK
(LB 966)
ELEV. = 70.49'(88) | BENCHMARK #11
STA: 48+31.91 (57.79 RT.)
SET 1/2" IRON ROD
(LB 966)
ELEV. = 71.41'(88) | BENCHMARK #12
STA: 52+32.09 (59.26 RT.)
SET 1/2" IRON ROD
(LB 966)
ELEV. = 74.60'(88) | BENCHMARK #13
STA: 56+31.37 (59.19 RT.)
OC 1282-BRASS DISK
ELEV. = 76.35'(88) |
| BENCHMARK #14
STA: 61+52.13 (52.11 LT.)
SET NAIL & DISK
ELEV. = 78.34'(88) | BENCHMARK #15
STA: 65+54.56 (52.00 LT.)
SET NAIL & DISK
ELEV. = 76.88'(88) | BENCHMARK #16
STA: 69+79.07 (48.37 LT.)
SET NAIL & DISK
ELEV. = 77.43'(88) | BENCHMARK #17
STA: 73+86.63 (30.10 LT.)
SET NAIL & DISK
ELEV. = 77.84'(88) | | |



END ROADWAY CONSTRUCTION
 CONST. SIMPSON RD
 SOUTH SEGMENT
 STA. 30+60.00

BEGIN ROADWAY CONSTRUCTION
 CONST. SIMPSON RD
 SOUTH SEGMENT
 STA. 36+60.00

END PROJECT
 END CONSTRUCTION
 CONST. SIMPSON RD
 SOUTH SEGMENT
 STA. 68+63.32

SIMPSON RD. LINE TABLE				
LINE #	LENGTH (ft)	BEARING	START POINT	END POINT
L1	2873.01	N 31° 18' 26" E	N 1436917.131 E 541675.083	N 1439371.817 E 543167.976
L2	3753.75	N 00° 22' 53" W	N 1439748.742 E 543272.243	N 1443502.409 E 543247.248

NEW BEGINNINGS RD. LINE TABLE				
LINE #	LENGTH (ft)	BEARING	START POINT	END POINT
L4	206.16	N 89° 40' 49" E	N 1440165.925 E 543269.465	N 1440167.076 E 543475.622

POND 2A LINE TABLE				
LINE #	LENGTH (ft)	BEARING	START POINT	END POINT
L7	600.00	S 54° 37' 06" E	N 1437933.952 E 541593.017	N 1437586.539 E 542082.204
L8	321.62	N 89° 36' 52" E	N 1440161.115 E 543269.497	N 1440163.280 E 543591.111
L9	427.54	S 56° 51' 40" E	N 1440079.742 E 543880.303	N 1439846.021 E 544238.299
L10	389.14	N 51° 20' 15" E	N 1439857.323 E 544472.580	N 1440100.431 E 544776.436
L11	458.11	N 31° 00' 17" W	N 1440512.576 E 544826.360	N 1440905.232 E 544590.384

CURVE DATA C1
 PI STA. = 37+76.28
 DELTA = 31.6887
 D = 8°00'00"
 T = 203.26
 L = 396.11
 R = 716.20
 PC STA. = 35+73.01
 PT STA. = 39+69.12

CURVE DATA C5
 PI STA. = 2004+78.59
 DELTA = 32.9954
 D = 10°48'38"
 T = 156.97
 L = 305.22
 R = 530.00
 PC STA. = 2003+21.62
 PT STA. = 2006+26.84

CURVE DATA C6
 PI STA. = 2011+99.15
 DELTA = 71.8013
 D = 28°38'52"
 T = 144.78
 L = 250.63
 R = 200.00
 PC STA. = 2010+54.37
 PT STA. = 2013+05.01

CURVE DATA C7
 PI STA. = 2019+58.61
 DELTA = 76.5737
 D = 17°06'08"
 T = 264.46
 L = 447.74
 R = 335.02
 PC STA. = 2016+94.15
 PT STA. = 2021+41.89

NOTE:
 STA. 24+93.92 TO STA. 41+76.50
 BY OTHERS (FTE SR 91 WIDENING
 PROJECT FPN 436164-1-58-02)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineers | Scientists
 Planners | Designers
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 Orlando, FL 32801 (407)839-4006
 Certificate of Authorization # 3932
 Mark F. Bertocini, P.E.
 PE # 63437



OSCEOLA COUNTY
 FLORIDA

PROJECT LAYOUT SHEET

SHEET
 NO.
 12

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

GENERAL NOTES

1. ELEVATIONS SHOWN ARE BASED ON N.A.V.D. 1988 DATUM.
2. REFERENCE BENCHMARK IS OSCEOLA COUNTY BENCHMARK OC-1279, A BRASS DISK LOCATED ON THE NORTH SIDE OF THE INTERSECTION OF BOGGY CREEK ROAD AND BORINQUEN STREET, ELEVATION = 77.85'.
3. BEARINGS SHOWN ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE. (NAD 83, 1990 ADJUSTMENT) AS DETERMINED FROM GLOBAL POSITIONING SYSTEM (GPS).
4. ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED BY CONTRACTOR AS FOLLOWS: CORNERS AND MONUMENTS IN CONFLICT WITH THE WORK IN DANGER OF BEING DAMAGED, DESTROYED OR COVERED SHALL BE PROPERLY REFERENCED BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THAT SITE. THE CONTRACTOR SHALL RETAIN THE LAND SURVEYOR TO REFERENCE, AND RESTORE UPON COMPLETION OF THE WORK, ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO THE DISTRICT LOCATION ENGINEER A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING. INCLUDE ALL COST OF REFERENCING, RESTORING AND PRESERVING IN THE BID UNIT PRICE FOR ITEM 101-1 MOBILIZATION.
5. ALL N.A.V.D. BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED AND REFERENCED BY THE CONTRACTOR IN THE SAME WAY AS PUBLIC LAND CORNERS EXCEPT THAT THE LAND SURVEYORS SHALL NOT BE REQUIRED TO RESTORE THE N.G.V.D. BENCH MARK UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL PROMPTLY TRANSMIT ALL DISPLACED OR DAMAGED N.G.V.D. DISCS TO THE COUNTY SURVEYOR, WHO SHALL NOTIFY THE GEODETIC INFORMATION CENTER. INCLUDE ALL COST OF REFERENCING AND PROTECTING IN THE BID PRICE FOR ITEM 101-1 MOBILIZATION.
6. THE CONTRACTOR SHALL USE A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK. CLEARING AND SWEEPING IS TO BE INCLUDED IN ITEM 102-1 MAINTENANCE OF TRAFFIC.
7. ALL SALVAGEABLE AND/OR ANY SIGNING MATERIAL, INCLUDING SUPPORTS, WHICH ARE TO BE REMOVED, SHALL REMAIN THE PROPERTY OF THE COUNTY. THEY SHALL BE LOADED, DELIVERED AND UNLOADED BY THE CONTRACTOR IN EXISTING CONDITION AT THE MAINTENANCE FACILITY. CONTACT KEVIN KRUG (407-738-9405) FOR LOCATION. COST IS INCIDENTAL TO THE REMOVAL PAY ITEMS.
8. THE CONTRACTOR SHALL INSTALL STATION BOARDS AT R/W LINE. THE CONTRACTOR SHALL MAINTAIN THE STATION MARKS VISIBLE UNTIL FINAL INSPECTION. COST TO BE INCLUDED IN RELATED PAY ITEM 102-1 MAINTENANCE OF TRAFFIC.
9. THE CONTRACTOR MUST MONITOR AND CONTROL ALL WORK THAT MAY CAUSE CRACKING TO ANY ADJACENT BUILDING, STRUCTURE OR PROPERTY AREA. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY THESE OPERATIONS, COST OF SHEETING, SHORING OR DEWATERING, INCLUDING WELL POINTS, AND ALL MONITORING COST SHALL BE INCLUDED IN THE RELATED BID ITEMS FOR THE WORK BEING DONE.

10. ALL SOD MATERIALS SHALL BE SUBJECT TO INSPECTION BY THE COUNTY PRIOR TO PLACEMENT.
11. THE CONTRACTOR SHALL MAINTAIN APPROPRIATE SKIMMERS AND ABSORBENT MATERIALS AT THE WORK AREA FOR IMMEDIATE DEPLOYMENT IN THE EVENT OF AN ACCIDENTAL SPILL.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ASSURING THAT APPLICABLE WATER QUALITY STANDARDS ARE MET BY PREVENTING THE DISCHARGE OF ANY FOREIGN MATERIAL IN THE WATER. THE CONTRACTOR SHALL ERECT THE BEST AVAILABLE MEANS OF EROSION AND TURBIDITY CONTROL, SUCH AS BUT NOT LIMITED TO, SILT FENCES, ROCK BAGS, TURBIDITY CURTAINS AND TARPAULINS, TO ISOLATE THE WORK AREA AT ALL TIMES. THESE MEASURES SHALL BE MAINTAINED FUNCTIONAL THROUGHOUT THE DURATION OF THE PROJECT.
13. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL INLETS ALONG THE PROJECT CORRIDOR CLEAN OF MILLING MATERIAL, LIMEROCK, DEBRIS AND SOIL USING THE APPROPRIATE EROSION CONTROL MEASURE SUCH AS, BUT NOT LIMITED TO, ROCK BAGS AND STAKED SILT FENCES. EROSION CONTROL MEASURES WILL BE KEPT FUNCTIONAL THROUGHOUT THE DURATION OF THE PROJECT.
14. EROSION CONTROL ITEMS ARE ESTIMATED FOR PREVENTION, CONTROL AND ABATEMENT OF EROSION, SEDIMENTATION, AND WATER POLLUTION. THESE ITEMS ARE TO BE USED AT THE LOCATIONS DESCRIBED IN THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN OR AS DIRECTED BY THE PROJECT ENGINEER TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.
15. ALL SYNTHETIC HAY BALES, ROCK BAGS, TURBIDITY CURTAINS, TARPAULINS AND SILT FENCE SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.
16. THE CONTRACTOR SHALL COORDINATE SELECTION AND REVIEW OF ANY PROPOSED STAGING AREAS ASSOCIATED WITH THIS PROJECT WITH THE COUNTY STAFF DURING THE PRE-CONSTRUCTION MEETING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING COUNTY STAFF AT LEAST THREE BUSINESS DAYS PRIOR TO STAGING. AT THE END OF THE PROJECT, THE STAGING AREA WILL BE RESTORED TO ITS ORIGINAL CONDITION OR BETTER.
17. THE CONTRACTOR WILL RESTRICT PERSONNEL, THE USE OF EQUIPMENT AND THE STORAGE OF MATERIALS TO AREAS WITHIN THE LIMITS OF CONSTRUCTION AS NOTED ON THE PLAN SHEETS. ANY OFF-SITE STORAGE AREA WILL REQUIRE PRIOR REVIEW BY COUNTY STAFF.
18. PRIOR TO FINAL PROJECT INSPECTION, THE CONTRACTOR SHALL FURNISH OSCEOLA COUNTY SIGNED AND SEALED PDF FILES OF CONSTRUCTION AS-BUILT PLANS, INCLUDING CAD FILES.
19. CONTRACTOR TO VIDEOTAPE AND PHOTOGRAPH PROJECT SITE PRIOR TO CONSTRUCTION AND PRESENT A COPY TO OSCEOLA COUNTY. COST TO BE INCLUDED IN ITEM 101-1 MOBILIZATION.

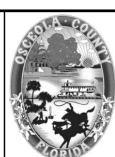
DRAINAGE NOTES

1. ALL EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.
2. ALL LENGTHS FOR DRAINAGE PIPES ARE SHOWN FROM THE INNER WALL OF STRUCTURE TO THE INNER WALL OF STRUCTURE.
3. ALL STORM PIPES SHALL BE STEEL REINFORCED CONCRETE PIPE CLASS III.
4. ALL PIPE JOINTS TO BE WRAPPED PER FDOT STD. PLANS 430-001.
5. THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN POSITIVE DRAINAGE PATTERNS THROUGHOUT ALL PHASES OF THE PROJECT TO PREVENT PONDING.

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Mark F. Bertoncini, P.E.
PE # 63437

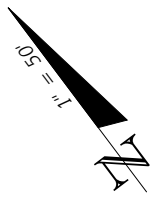
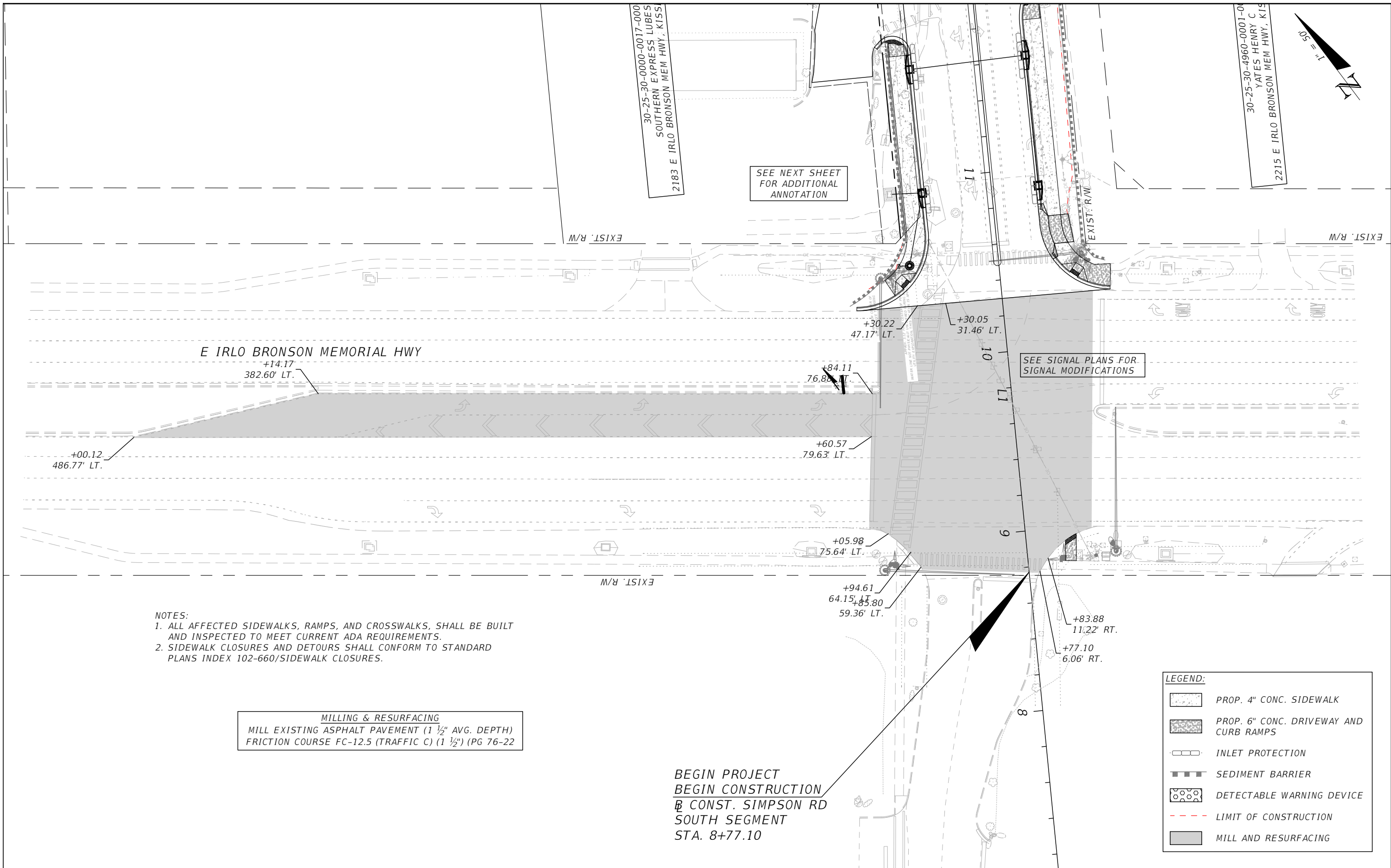


OSCEOLA COUNTY
FLORIDA

GENERAL NOTES

SHEET NO.
13

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



- NOTES:**
1. ALL AFFECTED SIDEWALKS, RAMPS, AND CROSSWALKS, SHALL BE BUILT AND INSPECTED TO MEET CURRENT ADA REQUIREMENTS.
 2. SIDEWALK CLOSURES AND DETOURS SHALL CONFORM TO STANDARD PLANS INDEX 102-660/SIDEWALK CLOSURES.

MILLING & RESURFACING
 MILL EXISTING ASPHALT PAVEMENT (1 1/2" AVG. DEPTH)
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

BEGIN PROJECT
 BEGIN CONSTRUCTION
 @ CONST. SIMPSON RD
 SOUTH SEGMENT
 STA. 8+77.10

LEGEND:

	PROP. 4" CONC. SIDEWALK
	PROP. 6" CONC. DRIVEWAY AND CURB RAMPS
	INLET PROTECTION
	SEDIMENT BARRIER
	DETECTABLE WARNING DEVICE
	LIMIT OF CONSTRUCTION
	MILL AND RESURFACING

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineers | Scientists
 Planners | Designers
 225 E. Robinson Street, Suite 300
 Orlando, FL 32801 (407)839-4006
 Certificate of Authorization # 3932
 Mark F. Bertocini, P.E.
 PE # 63437

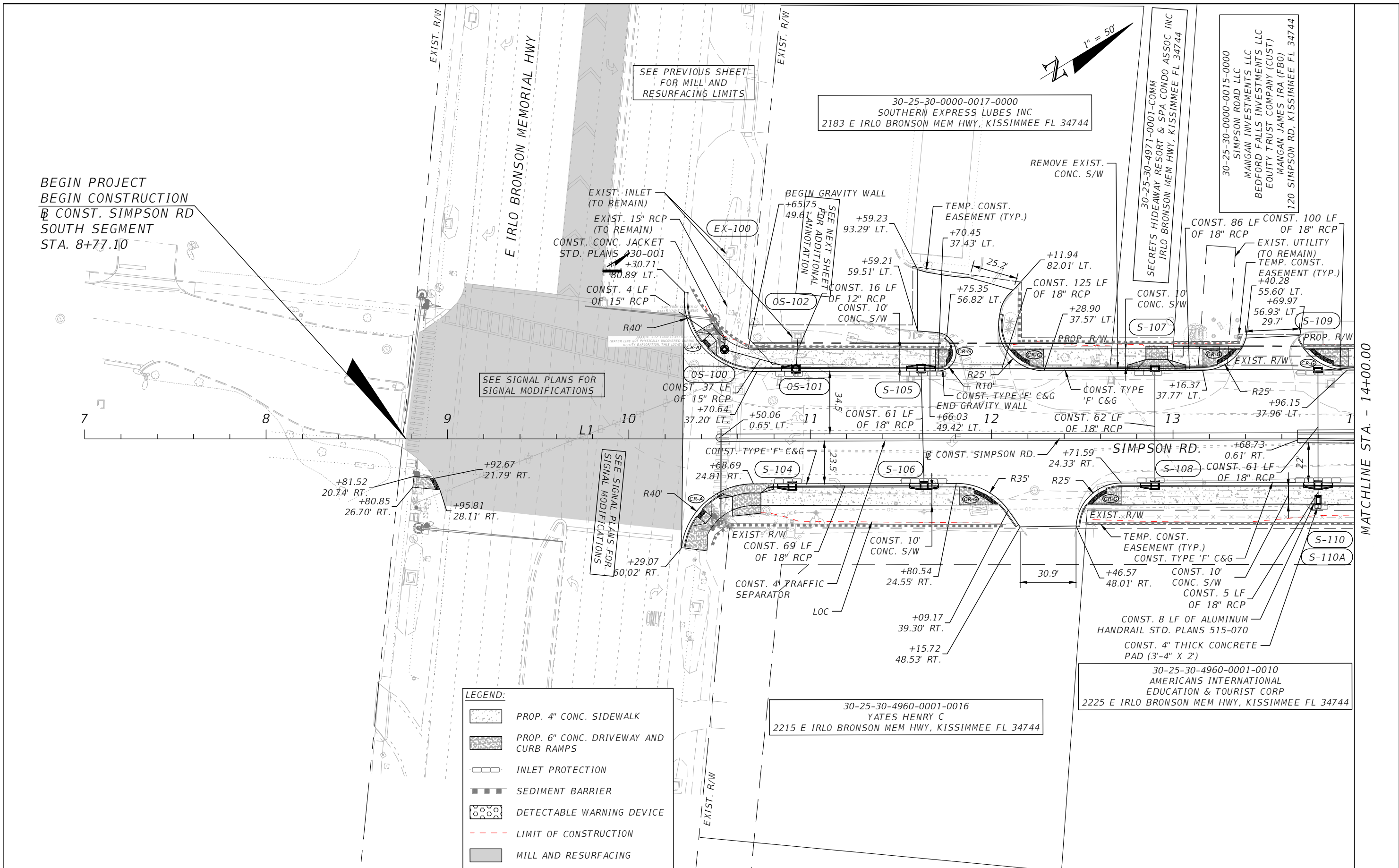


OSCEOLA COUNTY
 FLORIDA

US17-92 AND SIMPSON RD SHEET

SHEET NO.
 14

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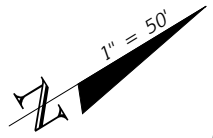
BEGIN PROJECT
 BEGIN CONSTRUCTION
 @ CONST. SIMPSON RD
 SOUTH SEGMENT
 STA. 8+77.10

SEE PREVIOUS SHEET
 FOR MILL AND
 RESURFACING LIMITS

30-25-30-0000-0017-0000
 SOUTHERN EXPRESS LUBES INC
 2183 E IRL0 BRONSON MEM HWY, KISSIMMEE FL 34744

30-25-30-4971-0001-COMM
 SECRETS HIDEAWAY RESORT & SPA CONDO ASSOC INC
 IRL0 BRONSON MEM HWY, KISSIMMEE FL 34744

30-25-30-0000-0015-0000
 SIMPSON ROAD LLC
 MANGAN INVESTMENTS LLC
 BEDFORD FALLS INVESTMENTS LLC
 EQUITY TRUST COMPANY (CUST)
 MANGAN JAMES IRA (FBO)
 120 SIMPSON RD, KISSIMMEE FL 34744



SEE SIGNAL PLANS FOR
 SIGNAL MODIFICATIONS

SEE SIGNAL PLANS FOR
 SIGNAL MODIFICATIONS

MATCHLINE STA. - 14+00.00

LEGEND:

	PROP. 4" CONC. SIDEWALK
	PROP. 6" CONC. DRIVEWAY AND CURB RAMPS
	INLET PROTECTION
	SEDIMENT BARRIER
	DETECTABLE WARNING DEVICE
	LIMIT OF CONSTRUCTION
	MILL AND RESURFACING

30-25-30-4960-0001-0016
 YATES HENRY C
 2215 E IRL0 BRONSON MEM HWY, KISSIMMEE FL 34744

30-25-30-4960-0001-0010
 AMERICANS INTERNATIONAL
 EDUCATION & TOURIST CORP
 2225 E IRL0 BRONSON MEM HWY, KISSIMMEE FL 34744

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineers | Scientists
 Planners | Designers
 225 E. Robinson Street, Suite 300
 Orlando, FL 32801 (407)839-4006
 Certificate of Authorization # 3932
 Mark F. Bertocini, P.E.
 PE # 63437

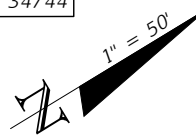
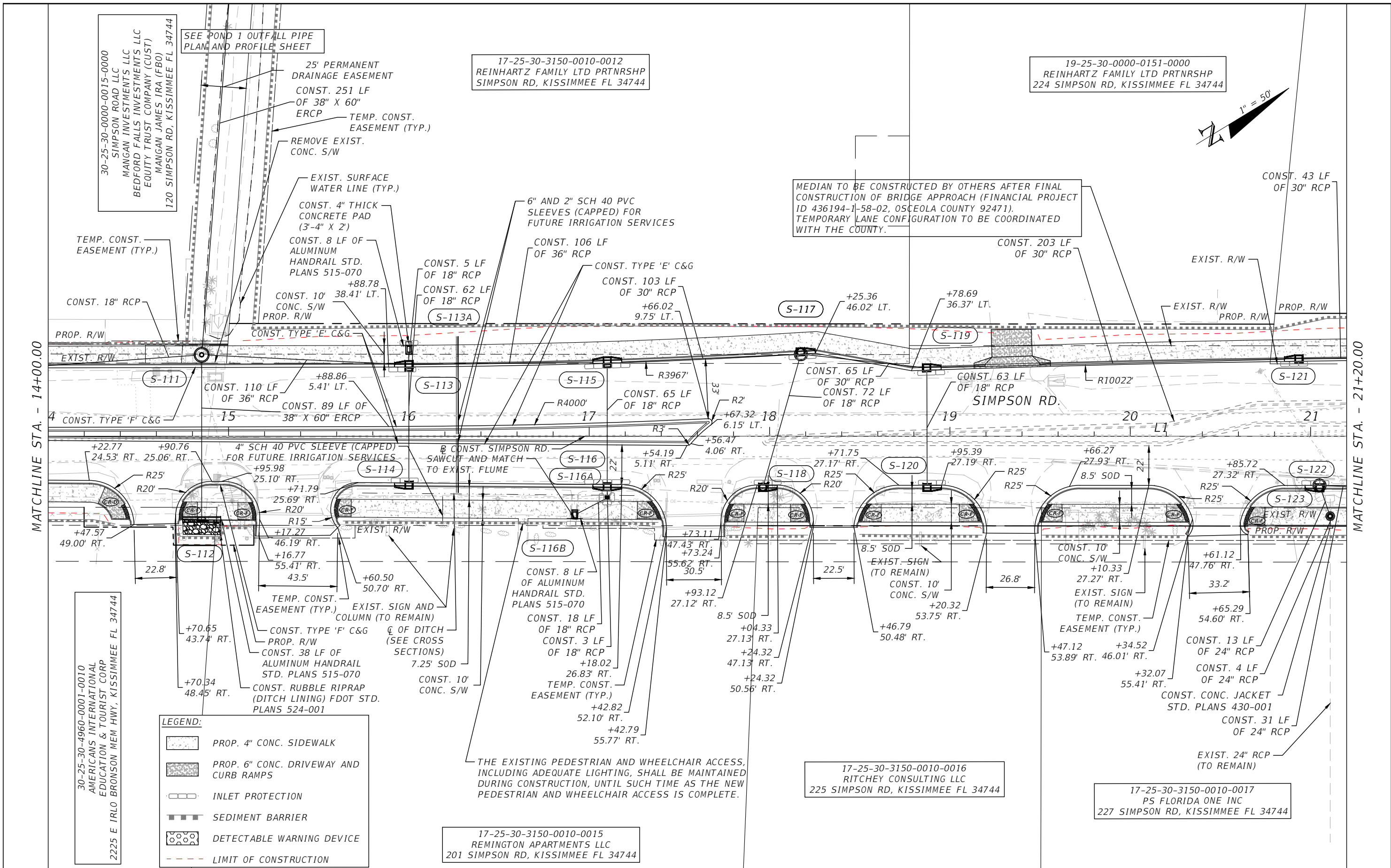


OSCEOLA COUNTY
 FLORIDA

SIMPSON RD PLAN SHEET 1

SHEET NO.
15

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LEGEND:

	PROP. 4" CONC. SIDEWALK
	PROP. 6" CONC. DRIVEWAY AND CURB RAMP
	INLET PROTECTION
	SEDIMENT BARRIER
	DETECTABLE WARNING DEVICE
	LIMIT OF CONSTRUCTION

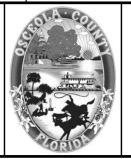
17-25-30-3150-0010-0015
 REMINGTON APARTMENTS LLC
 201 SIMPSON RD, KISSIMMEE FL 34744

17-25-30-3150-0010-0016
 RITCHEY CONSULTING LLC
 225 SIMPSON RD, KISSIMMEE FL 34744

17-25-30-3150-0010-0017
 PS FLORIDA ONE INC
 227 SIMPSON RD, KISSIMMEE FL 34744

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineers | Scientists
 Planners | Designers
 225 E. Robinson Street, Suite 300
 Orlando, FL 32801 (407)839-4006
 Certificate of Authorization # 3932
 Mark F. Bertoncini, P.E.
 PE # 63437



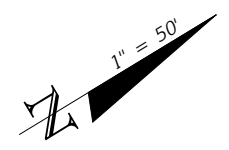
OSCEOLA COUNTY
 FLORIDA

SIMPSON RD PLAN SHEET 2

SHEET NO.
 16

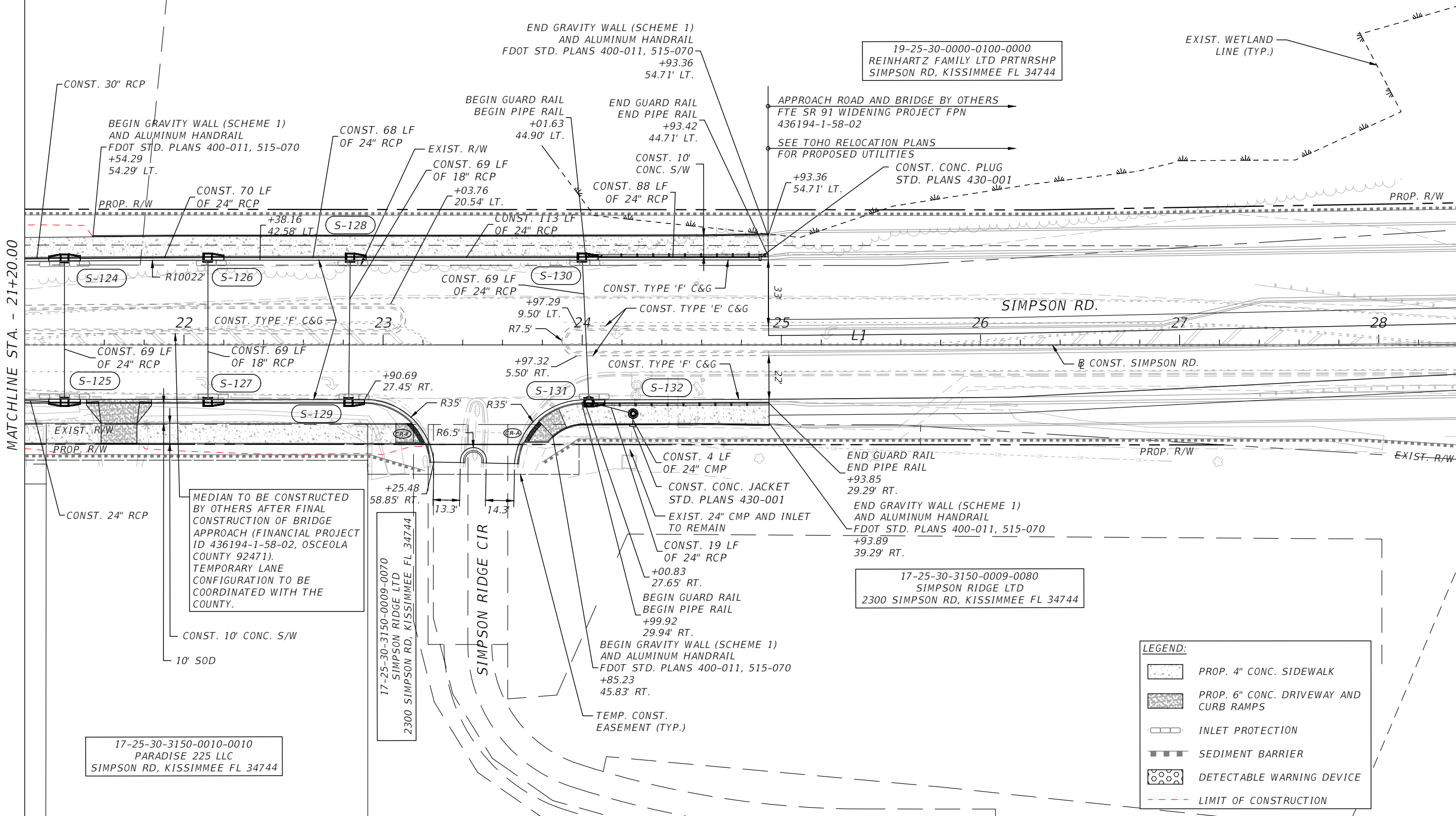
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

19-25-30-0000-0100-0000
 REINHARTZ FAMILY LTD PRTRNSHP
 SIMPSON RD, KISSIMMEE FL 34744



MATCHLINE STA. - 21+20.00

MATCHLINE STA. - 28+40.00



MEDIAN TO BE CONSTRUCTED BY OTHERS AFTER FINAL CONSTRUCTION OF BRIDGE APPROACH (FINANCIAL PROJECT ID 436194-1-58-02, OSCEOLA COUNTY 92471). TEMPORARY LANE CONFIGURATION TO BE COORDINATED WITH THE COUNTY.

19-25-30-0000-0100-0000
 REINHARTZ FAMILY LTD PRTRNSHP
 SIMPSON RD, KISSIMMEE FL 34744

17-25-30-3150-0009-0080
 SIMPSON RIDGE LTD
 2300 SIMPSON RD, KISSIMMEE FL 34744

17-25-30-3150-0010-0010
 PARADISE 225 LLC
 SIMPSON RD, KISSIMMEE FL 34744

LEGEND:

	PROP. 4" CONC. SIDEWALK
	PROP. 6" CONC. DRIVEWAY AND CURB RAMPS
	INLET PROTECTION
	SEDIMENT BARRIER
	DETECTABLE WARNING DEVICE
	LIMIT OF CONSTRUCTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineers | Scientists
 Planners | Designers
 225 E. Robinson Street, Suite 300
 Orlando, FL 32801 (407)839-4006
 Certificate of Authorization # 3932
 Mark F. Bertocini, P.E.
 PE # 63437

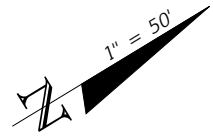


OSCEOLA COUNTY
 FLORIDA

SIMPSON RD PLAN SHEET 3

SHEET NO.
 17

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



EXIST. WETLAND LINE

APPROACH ROAD AND BRIDGE BY OTHERS
FTE SR 91 WIDENING PROJECT FPN 436194-1-58-02

SEE TOHO RELOCATION PLANS FOR PROPOSED
UTILITIES

END ROADWAY CONSTRUCTION
CONST. SIMPSON RD
SOUTH SEGMENT
STA. 30+60.00

PROP. R/W

PROP. R/W

EXIST. R/W

EXIST. R/W

MATCHLINE STA. - 28+40.00

MATCHLINE STA. - 35+40.00

29 30 31 32 33 34 35

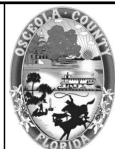
17-25-30-3150-0009-0080
SIMPSON RIDGE LTD
SIMPSON RD, KISSIMMEE FL 34744

EXIST. R/W

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



Engineers | Scientists
Planners | Designers
225 E. Robinson Street, Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization # 3932
Mark F. Bertocini, P.E.
PE # 63437



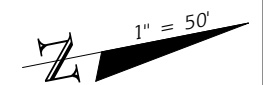
OSCEOLA COUNTY
FLORIDA

SIMPSON RD PLAN SHEET 4

SHEET
NO.

18

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BEGIN DRAINAGE CONSTRUCTION
STA. 36+71.37

S-250
STA 36+72.15 (-115.19 Lt.)
CONST. CROSS DRAIN MES 1:2 (19" X 30")
STD. PLANS 430-021
FL 57.00 E

19-25-30-0000-0130-0000
OSCEOLA COUNTY
400 SIMPSON RD, KISSIMMEE FL 34744

APPROACH ROAD AND BRIDGE BY OTHERS
FTE SR 91 WIDENING PROJECT FPN
436194-1-58-02
SEE TOHO RELOCATION PLANS FOR
PROPOSED UTILITIES

BEGIN GRAVITY WALL (SCHEME 1)
AND ALUMINUM HANDRAIL
FDOT STD. PLANS 400-011, 515-070
+76.53
38.18 LT.

CONST. 50 LF
OF 24" RCP

CONST. CONC. PLUG AND
24" STUB OUT FOR FTE
STORM CONNECTION

CONST. 221 LF
OF 19" X 30"
ERCPC

CONST. 133 LF
OF 19" X 30"
ERCPC

CONST. 185 LF
OF 19" X 30"
ERCPC

CONST. 48 LF OF
19" X 30" ERCPC

PROP. PERMANENT
EASEMENT

FLOATING TURBIDITY
BARRIER (TYP.)

S-250

S-251

S-252

S-252A

SIMPSON RD.

CONST. SIMPSON RD.

MATCHLINE STA. - 35+40.00

MATCHLINE STA. - 42+00.00

PC STA. 35+73.01

PT STA. 39+69.12

19-25-30-0000-0105-0000
SCHOOL BOARD OF OSCEOLA COUNTY
SIMPSON RD, KISSIMMEE FL 34744

17-25-30-3150-0009-0020
SCHOOL DIST OF OSCEOLA CO THE
2300 NEW BEGINNINGS RD, KISSIMMEE FL 34744

BEGIN ROADWAY CONSTRUCTION
CONST. SIMPSON RD.
SOUTH SEGMENT
STA. 36+60.00

LEGEND:

- PROP. 4" CONC. SIDEWALK
- PROP. 6" CONC. DRIVEWAY AND CURB RAMP
- INLET PROTECTION
- SEDIMENT BARRIER
- DETECTABLE WARNING DEVICE
- LIMIT OF CONSTRUCTION

PROP. TIE-IN FOR BRIDGE
DRAINAGE STRUCTURES

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineers | Scientists
Planners | Designers
225 E. Robinson Street, Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization # 3932
Mark F. Bertocini, P.E.
PE # 63437

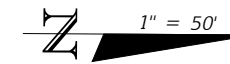


OSCEOLA COUNTY
FLORIDA

SIMPSON RD PLAN SHEET 5

SHEET
NO.
19

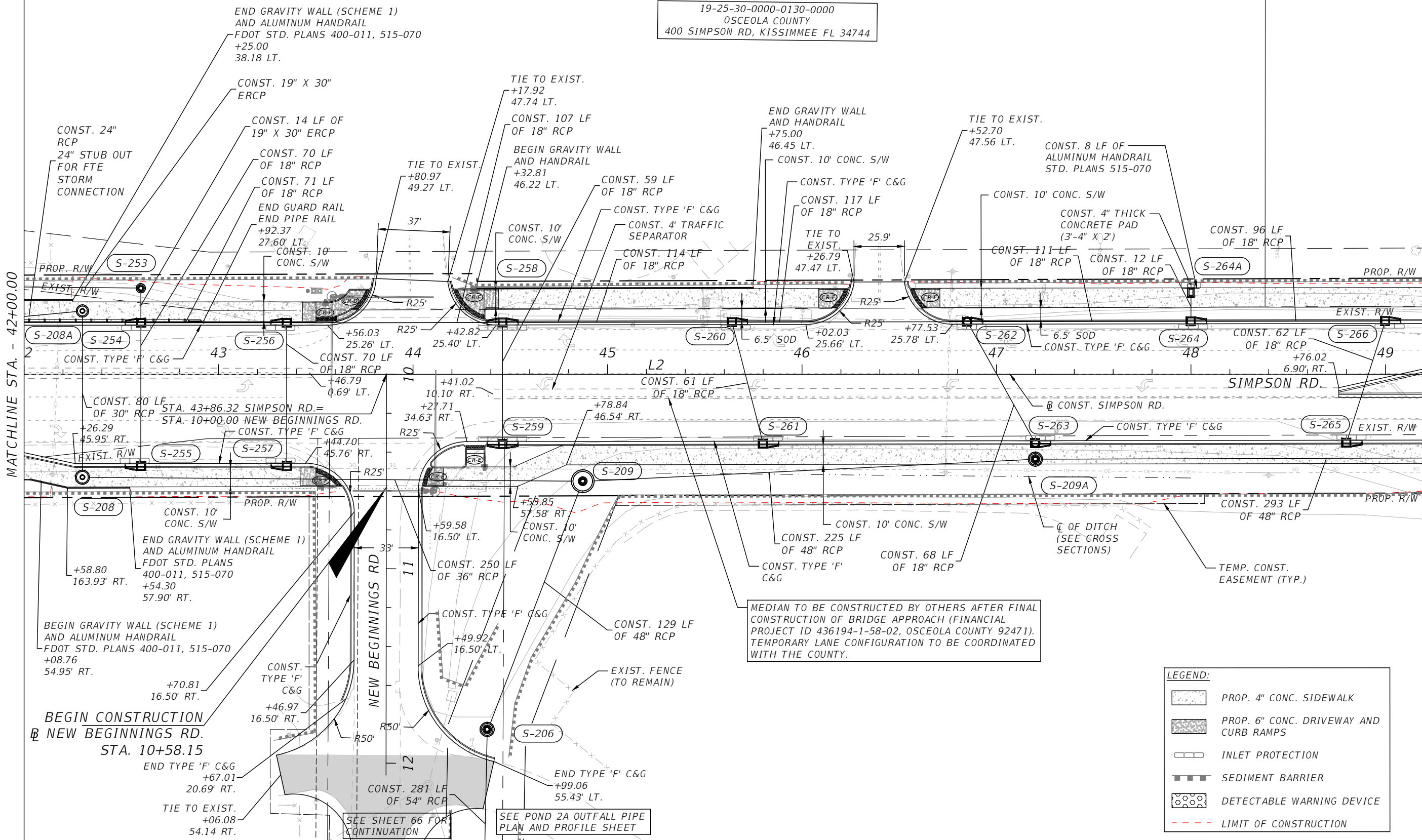
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19-25-30-0000-0130-0000
OSCEOLA COUNTY
400 SIMPSON RD, KISSIMMEE FL 34744

MATCHLINE STA. - 42+00.00

MATCHLINE STA. - 49+20.00



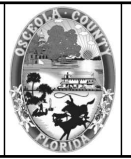
LEGEND:

	PROP. 4" CONC. SIDEWALK
	PROP. 6" CONC. DRIVEWAY AND CURB RAMP
	INLET PROTECTION
	SEDIMENT BARRIER
	DETECTABLE WARNING DEVICE
	LIMIT OF CONSTRUCTION

MEDIAN TO BE CONSTRUCTED BY OTHERS AFTER FINAL CONSTRUCTION OF BRIDGE APPROACH (FINANCIAL PROJECT ID 436194-1-58-02, OSCEOLA COUNTY 92471). TEMPORARY LANE CONFIGURATION TO BE COORDINATED WITH THE COUNTY.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineers | Scientists
Planners | Designers
225 E. Robinson Street, Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization # 3932
Mark F. Bertocini, P.E.
PE # 63437



OSCEOLA COUNTY
FLORIDA

SIMPSON RD PLAN SHEET 6

SHEET NO.
20

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19-25-30-2871-0001-0040
OSCEOLA COUNTY
COUNTRY WOODS CIR,
KISSIMMEE FL 34744

19-25-30-0000-0023-0000
MACDONALD MICHAEL J
510 SIMPSON RD, KISSIMMEE FL 34744

19-25-30-0000-0024-0000
MACDONALD BAIL BONDS INC
520 SIMPSON RD, KISSIMMEE FL 34744

19-25-30-0000-0025-0000
GREATHEARTS FORTYNINERS LLC
522 SIMPSON RD, KISSIMMEE FL 34744

19-25-30-0000-0021-0000
GREATHEARTS FORTYNINERS LLC
SIMPSON RD, KISSIMMEE FL 34744

19-25-30-0000-0090-0000
OSCEOLA COUNTY
500 SIMPSON RD, KISSIMMEE FL 34744

CONST. 4" THICK
CONCRETE PAD (3'-4" X 2')

CONST. 8 LF OF ALUMINUM
HANDRAIL STD. PLANS 515-070

CONST. 12 LF
OF 18" RCP

+12.69
46.98' LT.

18.2'

18.9'

CONST. 10'
CONC. S/W

CONST. CONC. JACKET
STD. PLANS 430-001

CONST. 4 LF OF
12" X 18" ERCP

REMOVE EXIST.
CONC. S/W

+70.50
38.90' LT.

CONST. 36 LF
OF 18" RCP

EXIST. SIGN
(TO REMAIN)

+45.48
45.41' LT.

TIE TO EXIST.
+10.65
46.82' LT.

TIE TO EXIST.
+86.60
47.79' LT.

TEMP. CONST.
EASEMENT (TYP.)

EXIST. 12" X 18" RCP
(TO REMAIN)

CONST. 4" THICK
CONCRETE PAD (3'-4" X 2')

CONST. 8 LF OF ALUMINUM
HANDRAIL STD. PLANS 515-070

CONST. 5 LF
OF 18" RCP

TIE TO EXIST.
+57.11
43.00' LT.

TIE TO EXIST.
+23.57
43.00' LT.

CONST. 10'
CONC. S/W

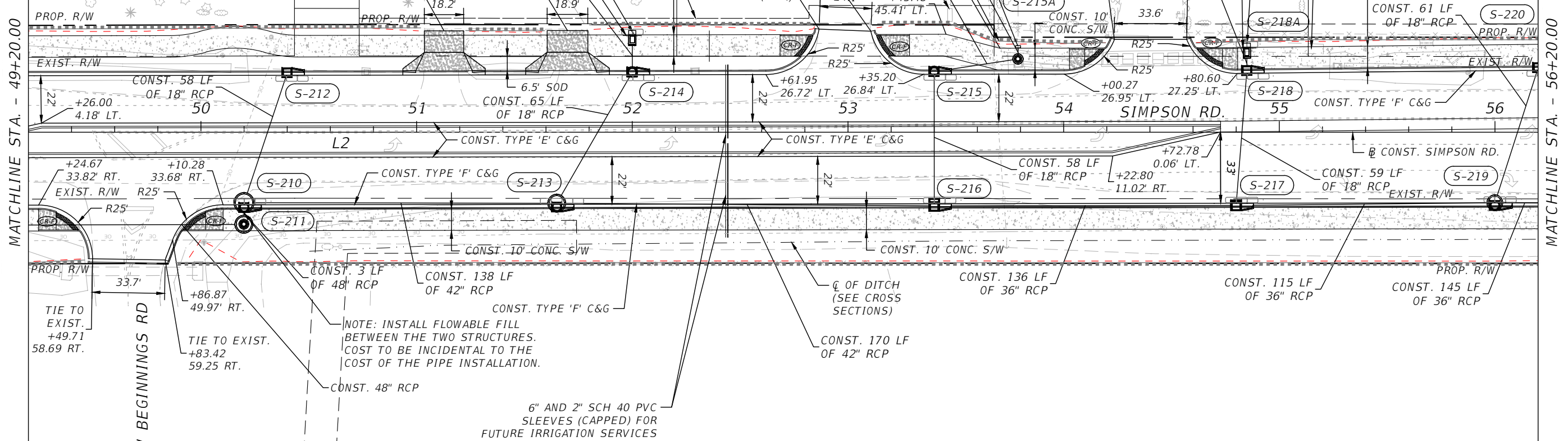
REMOVE EXIST.
CONC. S/W

CONST. 10' CONC. S/W

CONST. 61 LF
OF 18" RCP

MATCHLINE STA. - 49+20.00

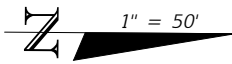
MATCHLINE STA. - 56+20.00



NOTE: INSTALL FLOWABLE FILL
BETWEEN THE TWO STRUCTURES.
COST TO BE INCIDENTAL TO THE
COST OF THE PIPE INSTALLATION.

6" AND 2" SCH 40 PVC
SLEEVES (CAPPED) FOR
FUTURE IRRIGATION SERVICES

19-25-30-0000-0040-0000
SCHOOL BOARD OF OSCEOLA COUNTY
2300 NEW BEGINNINGS RD, KISSIMMEE FL 34744

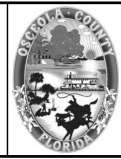


LEGEND:

	PROP. 4" CONC. SIDEWALK
	PROP. 6" CONC. DRIVEWAY AND CURB RAMP
	INLET PROTECTION
	SEDIMENT BARRIER
	DETECTABLE WARNING DEVICE
	LIMIT OF CONSTRUCTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineers | Scientists
Planners | Designers
225 E. Robinson Street, Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization # 3932
Mark F. Bertoncini, P.E.
PE # 63437

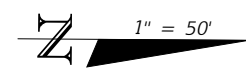


OSCEOLA COUNTY
FLORIDA

SIMPSON RD PLAN SHEET 7

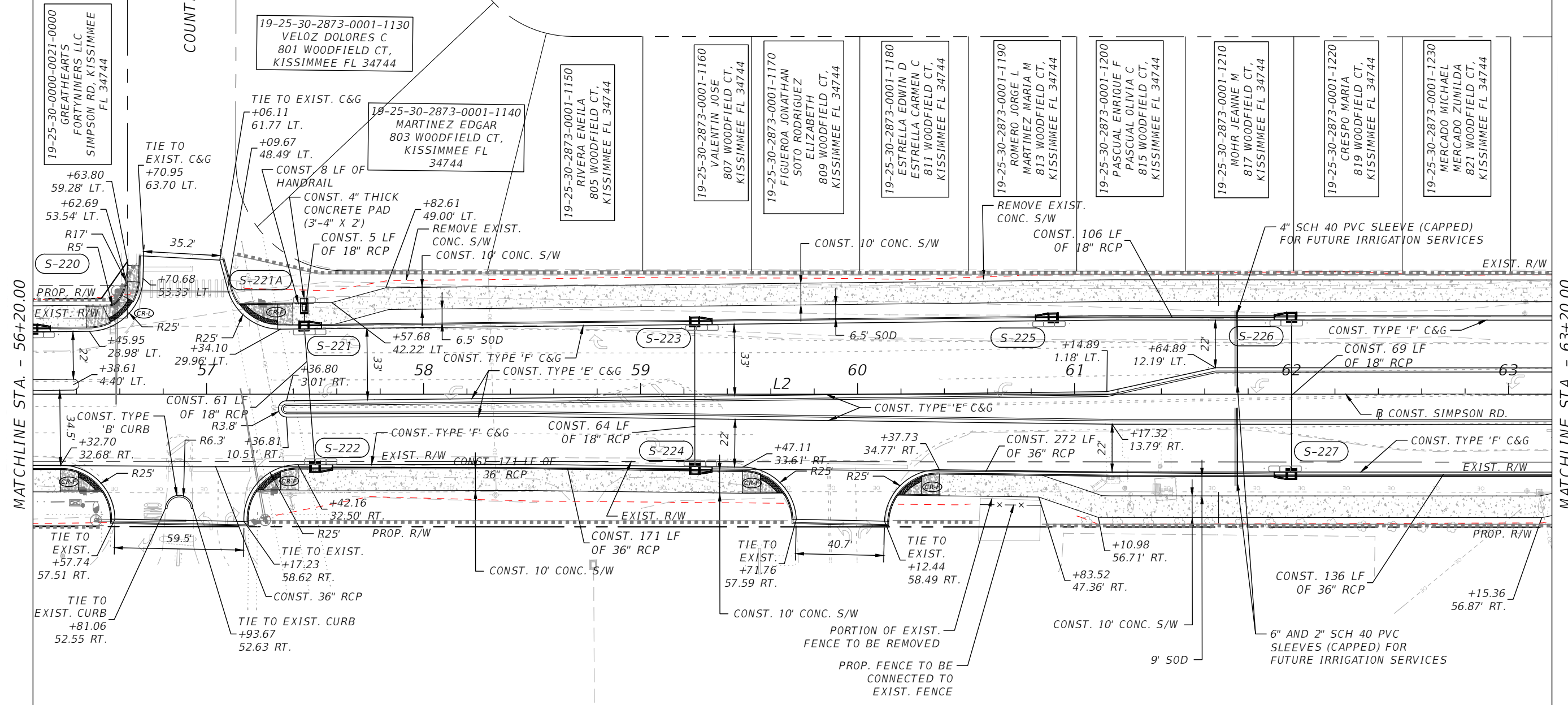
SHEET
NO.
21

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WOODFIELD CT

COUNTRY LANE



MATCHLINE STA. - 56+20.00

MATCHLINE STA. - 63+20.00

LEGEND:

	PROP. 4" CONC. SIDEWALK
	PROP. 6" CONC. DRIVEWAY AND CURB RAMP
	INLET PROTECTION
	SEDIMENT BARRIER
	DETECTABLE WARNING DEVICE
	LIMIT OF CONSTRUCTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineers | Scientists
Planners | Designers
225 E. Robinson Street, Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization # 3932
Mark F. Bertocini, P.E.
PE # 63437

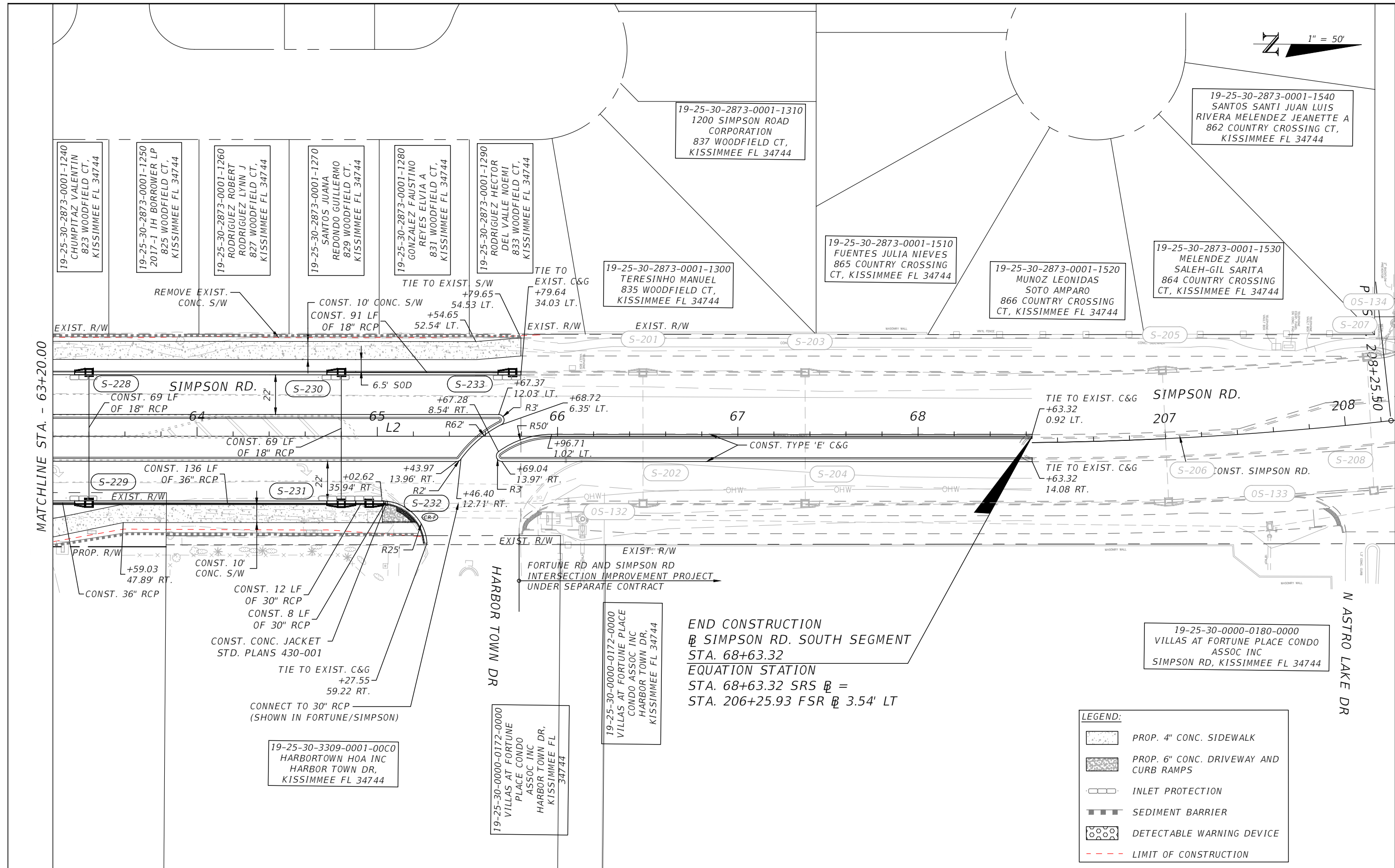
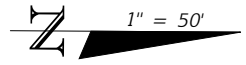


OSCEOLA COUNTY
FLORIDA

SIMPSON RD PLAN SHEET 8

SHEET NO.
22

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MATCHLINE STA. - 63+20.00

N ASTRO LAKE DR

19-25-30-0000-0172-0000
VILLAS AT FORTUNE PLACE CONDO ASSOC INC
HARBOR TOWN DR,
KISSIMMEE FL 34744

END CONSTRUCTION @ SIMPSON RD. SOUTH SEGMENT
STA. 68+63.32
EQUATION STATION
STA. 68+63.32 SRS @ =
STA. 206+25.93 FSR @ 3.54' LT

19-25-30-0000-0180-0000
VILLAS AT FORTUNE PLACE CONDO ASSOC INC
SIMPSON RD, KISSIMMEE FL 34744

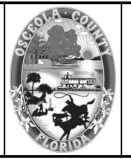
19-25-30-3309-0001-0000
HARBORTOWN HOA INC
HARBOR TOWN DR,
KISSIMMEE FL 34744

LEGEND:

	PROP. 4" CONC. SIDEWALK
	PROP. 6" CONC. DRIVEWAY AND CURB RAMP
	INLET PROTECTION
	SEDIMENT BARRIER
	DETECTABLE WARNING DEVICE
	LIMIT OF CONSTRUCTION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

Engineers | Scientists
Planners | Designers
225 E. Robinson Street, Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization # 3932
Mark F. Bertocini, P.E.
PE # 63437

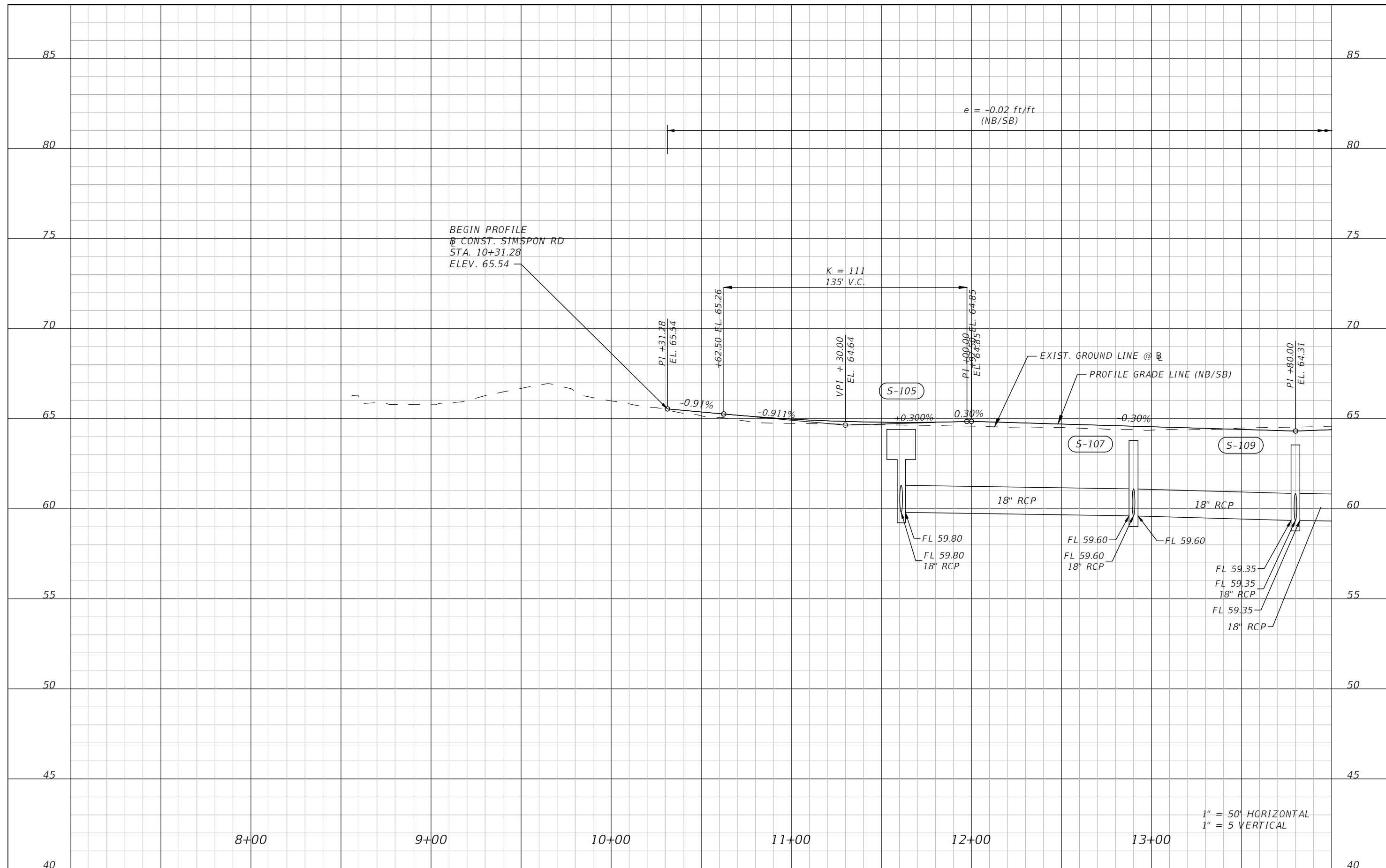


OSCEOLA COUNTY
FLORIDA

SIMPSON RD PLAN SHEET 9

SHEET NO.
23

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



1" = 50' HORIZONTAL
1" = 5 VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



Engineers | Scientists
Planners | Designers
225 E. Robinson Street, Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization # 3932
Mark F. Bertocini, P.E.
PE # 63437

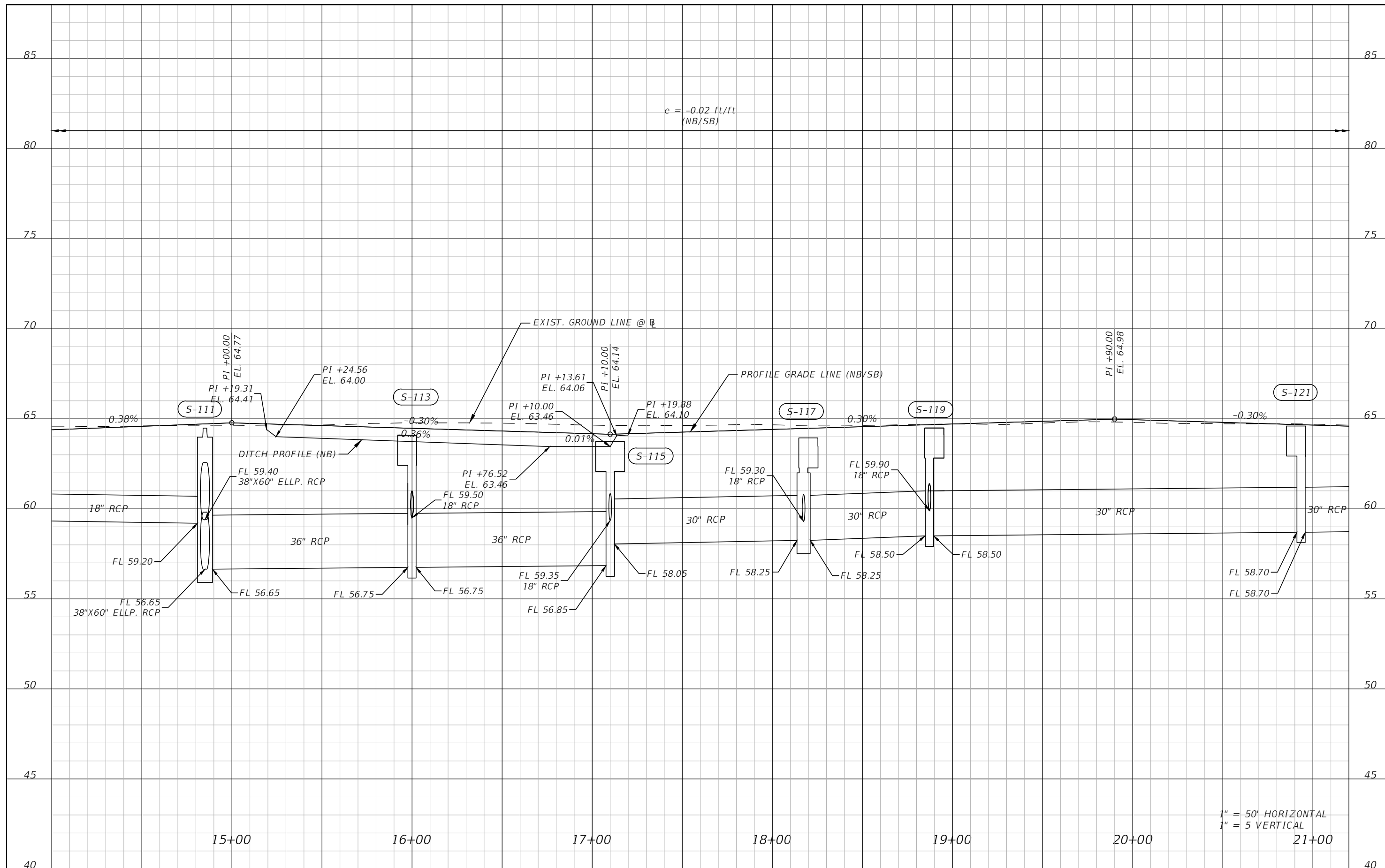


OSCEOLA COUNTY
FLORIDA

SIMPSON RD PROFILE SHEET 1

SHEET NO.
24

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

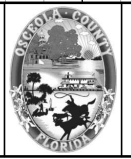


1" = 50' HORIZONTAL
1" = 5 VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



Engineers | Scientists
Planners | Designers
225 E. Robinson Street, Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization # 3932
Mark F. Bertocini, P.E.
PE # 63437

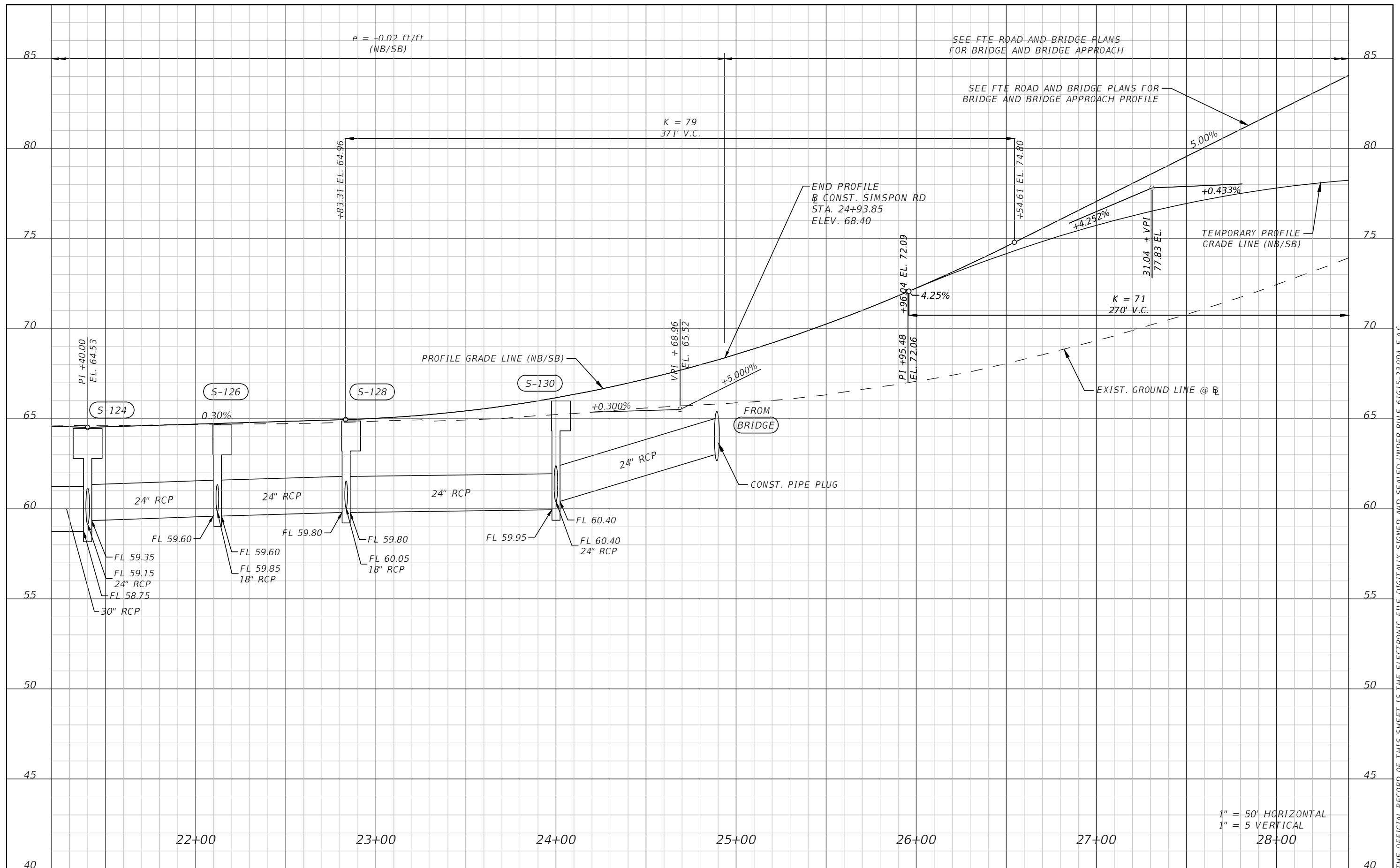


OSCEOLA COUNTY
FLORIDA

SIMPSON RD PROFILE SHEET 2

SHEET NO.
25

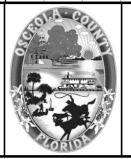
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1" = 50' HORIZONTAL
1" = 5' VERTICAL

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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Planners | Designers
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Orlando, FL 32801 (407)839-4006
Certificate of Authorization # 3932
Mark F. Bertocini, P.E.
PE # 63437

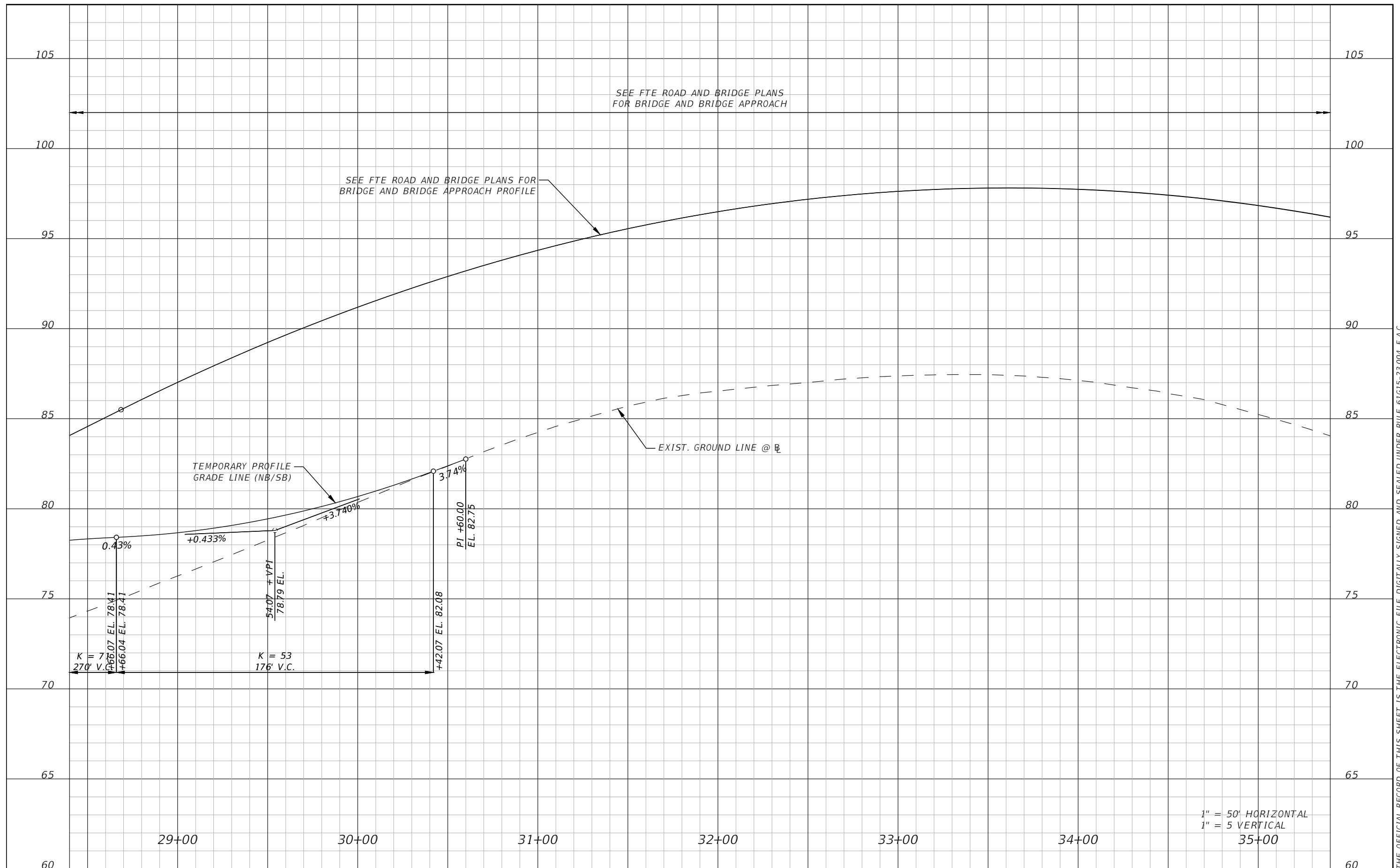


OSCEOLA COUNTY
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SIMPSON RD PROFILE SHEET 3

SHEET NO.
26

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1" = 50' HORIZONTAL
 1" = 5 VERTICAL
 35+00

REVISIONS			
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OSCEOLA COUNTY
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SIMPSON RD PROFILE SHEET 4

SHEET NO.
 27

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SEE FTE ROAD AND BRIDGE PLANS
FOR BRIDGE AND BRIDGE APPROACH

FULL SUPER
e = 0.02 ft/ft (NB/SB)

TRANSITION
e = 0.02 ft/ft (NB)
TO
e = -0.02 ft/ft (NB)

K = 79
366' V.C.

SEE FTE ROAD AND BRIDGE PLANS FOR
BRIDGE AND BRIDGE APPROACH PROFILE

TEMPORARY PROFILE
GRADE LINE (NB/SB)

PROFILE GRADE LINE (NB/SB)

BEGIN PROFILE
CONST. SIMPSON RD
STA. 41+76.50
ELEV. 72.44

EXIST. GROUND LINE @ R

PI +60.00
EL. 80.00

+78.00 EL. 79.34

66.00 + VPI
76.11 EL.

+54.00 EL. 75.90

+05.00 EL. 75.77

40.00 + VPI
75.45 EL.

+75.00 EL. 72.38

PI +79.42
EL. 72.38

PI +79.42
EL. 72.38

S-251

S-252

S-252A

19" X 30" ELLP. RCP

19" X 30" ELLP. RCP

19" X 30" ELLP. RCP

FL 57.10
19"X30" ELLP. RCP

FL 60.75

FL 61.00

FL 63.50

FL 63.70

FL 64.25

1" = 50' HORIZONTAL
1" = 5 VERTICAL

36+00

37+00

38+00

39+00

40+00

41+00

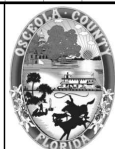
42+00

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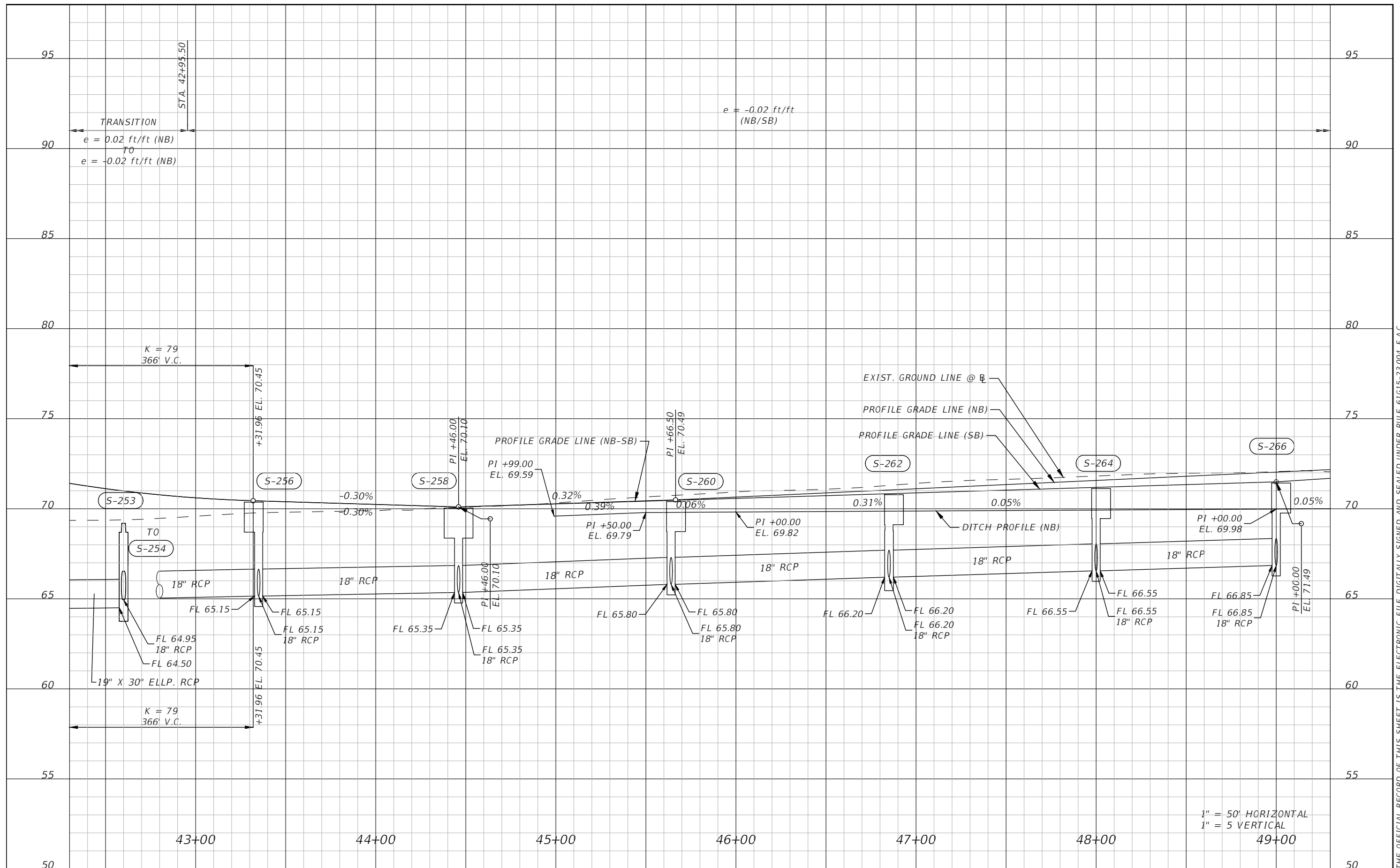


OSCEOLA COUNTY
FLORIDA

SIMPSON RD PROFILE SHEET 5

SHEET
NO.
28

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1" = 50' HORIZONTAL
1" = 5 VERTICAL

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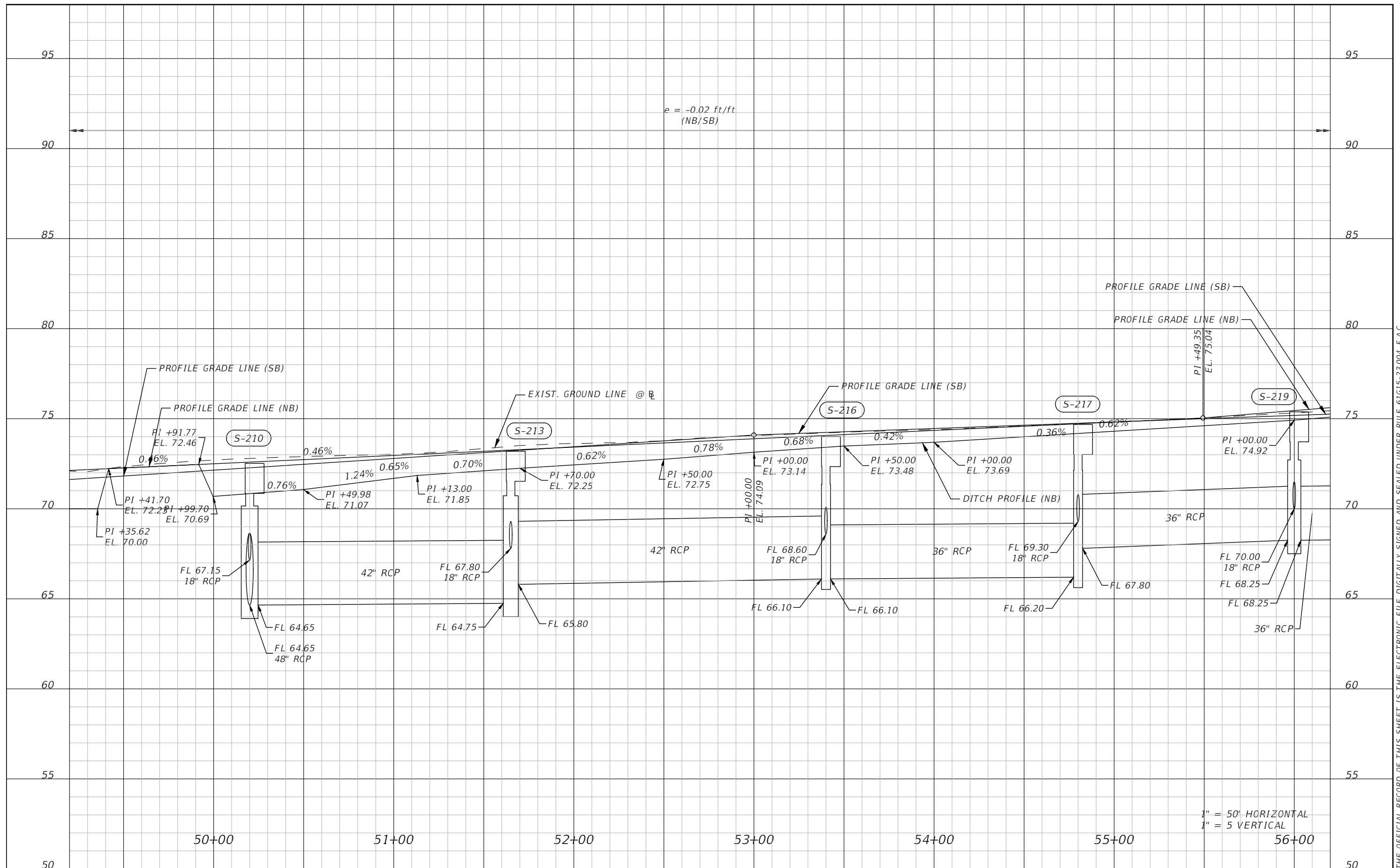


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SIMPSON RD PROFILE SHEET 6

SHEET NO.
29

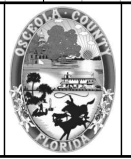
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DATE	DESCRIPTION	DATE	DESCRIPTION

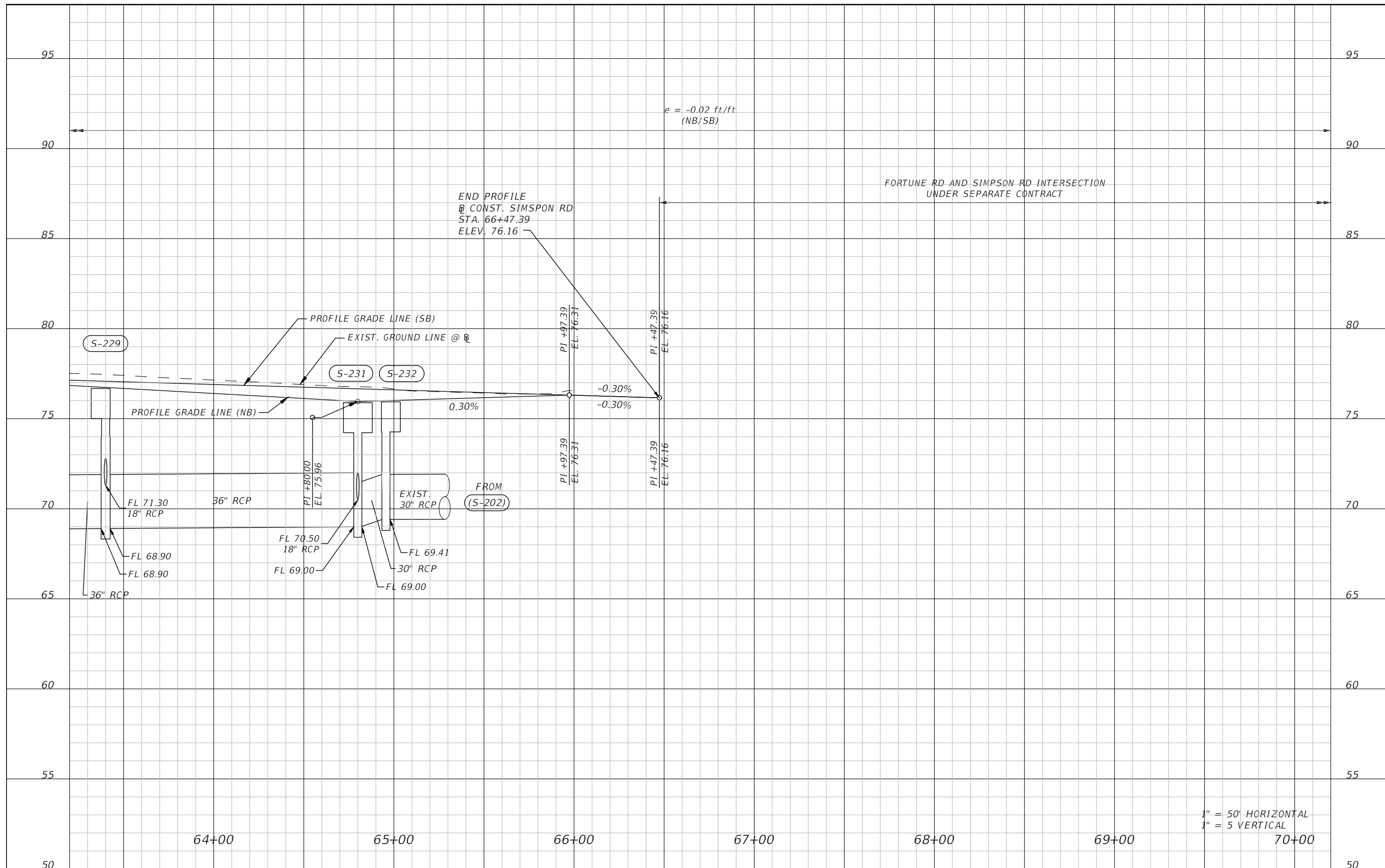
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OSCEOLA COUNTY
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SIMPSON RD PROFILE SHEET 7

SHEET NO.
30



FORTUNE RD AND SIMPSON RD INTERSECTION
UNDER SEPARATE CONTRACT

$e = -0.02 \text{ ft/ft}$
(NB/SB)

END PROFILE
@ CONST. SIMPSON RD
STA. 66+47.39
ELEV. 76.16

1" = 50' HORIZONTAL
1" = 5 VERTICAL

REVISIONS			
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PE # 63437

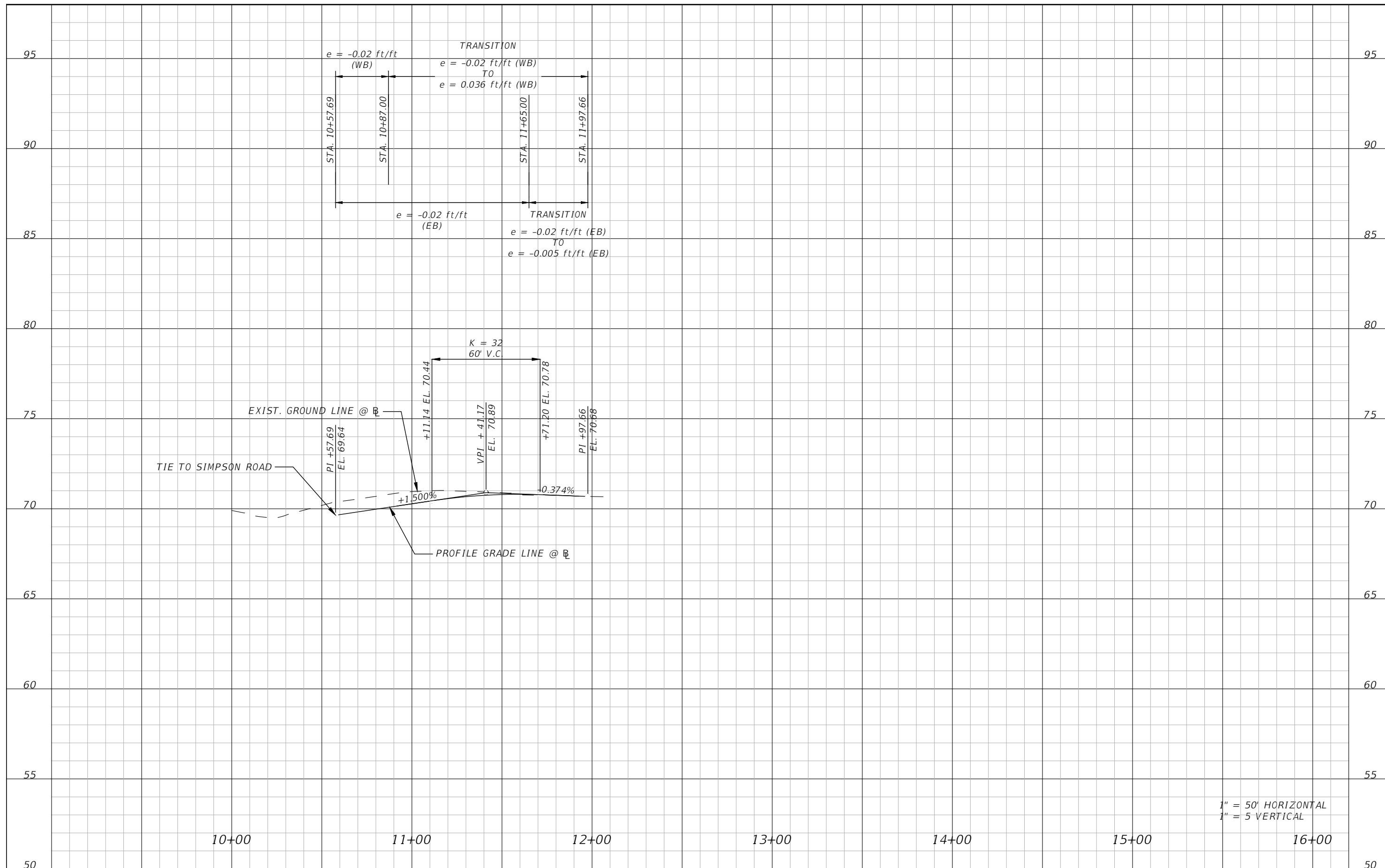


OSCEOLA COUNTY
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SIMPSON RD PROFILE SHEET 9

SHEET
NO.
32

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1" = 50' HORIZONTAL
 1" = 5' VERTICAL

REVISIONS			
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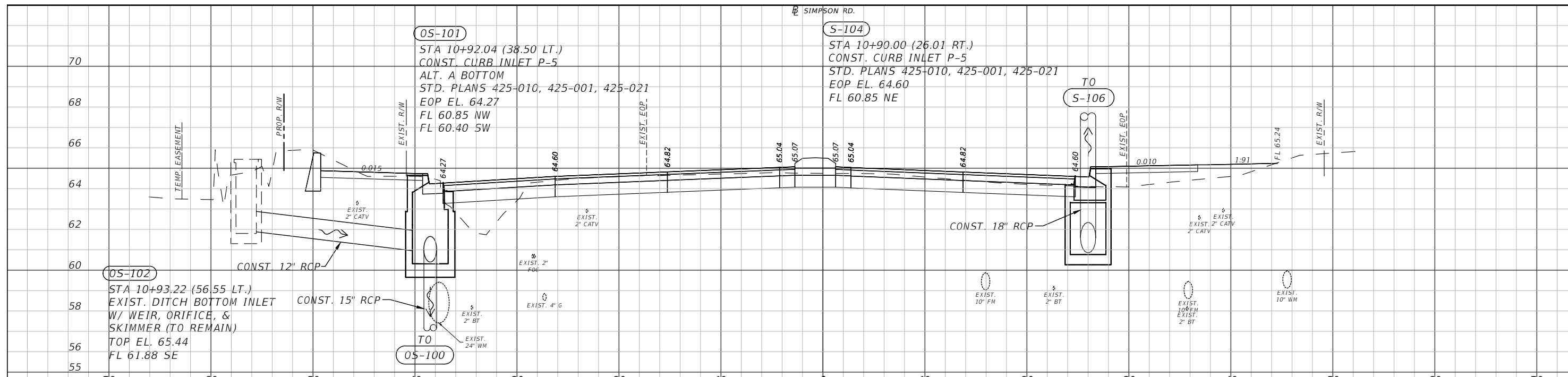


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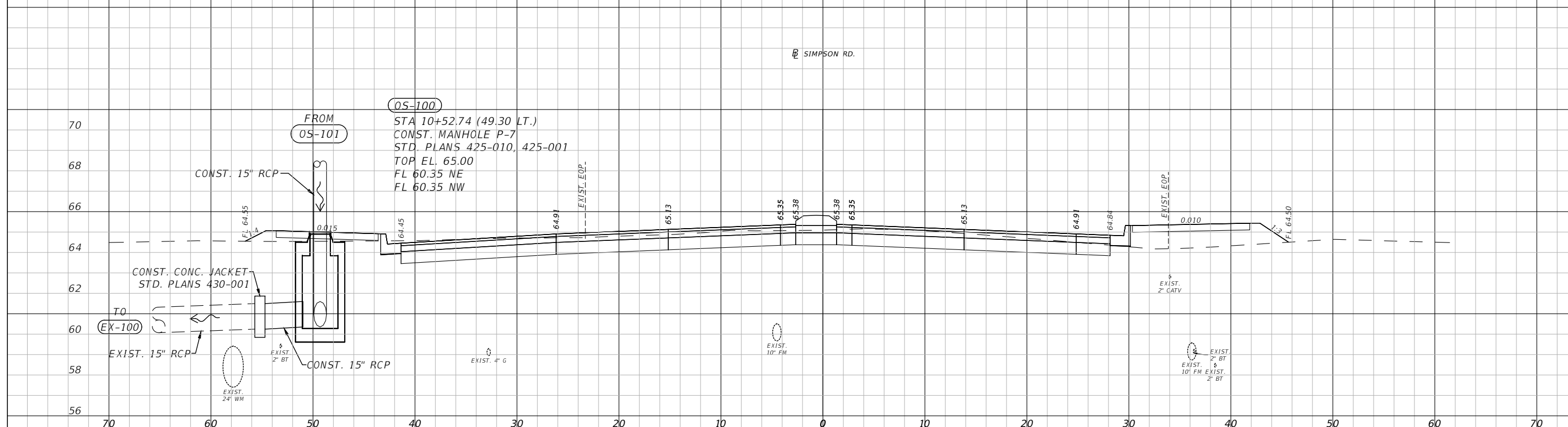
**NEW BEGINNINGS RD PROFILE
 SHEET**

SHEET NO.
 33

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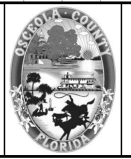
10+91.02



10+52.74

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

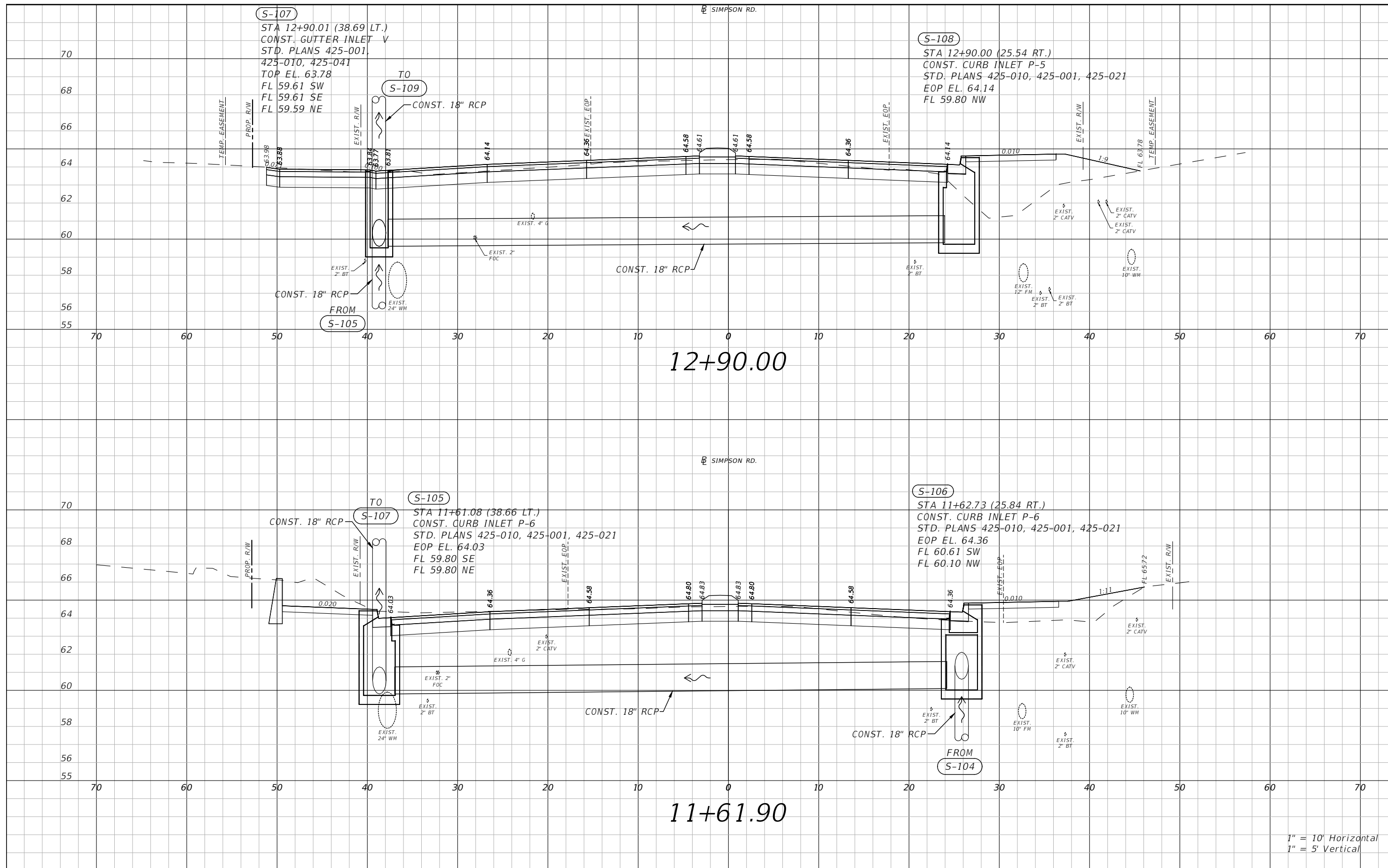


OSCEOLA COUNTY
FLORIDA

SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 1


SHEET NO.
34

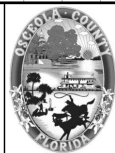
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1" = 10' Horizontal
1" = 5' Vertical

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 PE # 50682

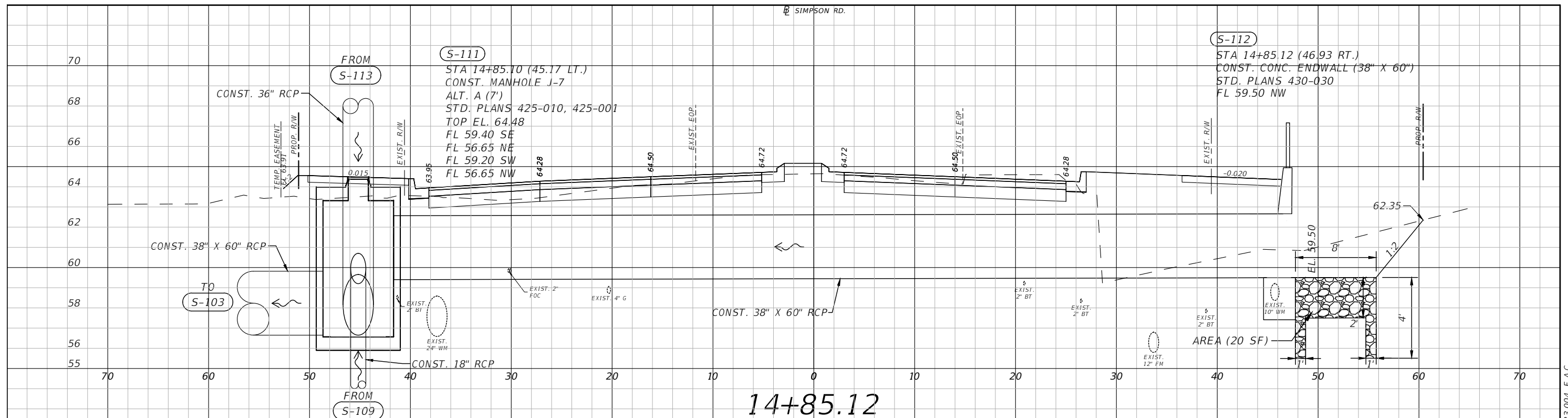


OSCEOLA COUNTY
FLORIDA

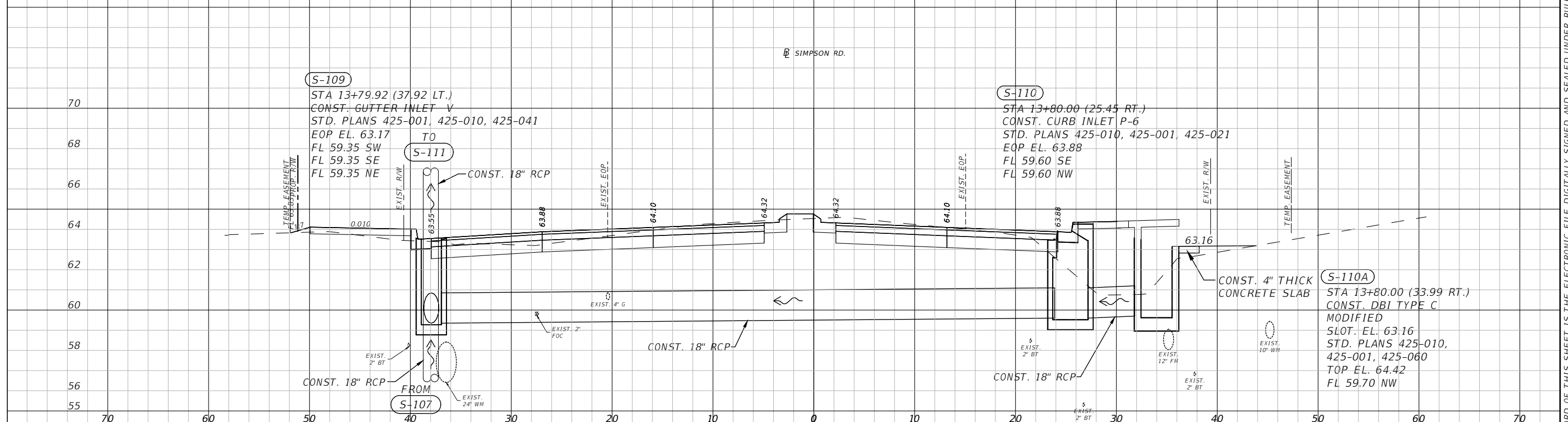
**SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 2**

SHEET NO.
35

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14+85.12

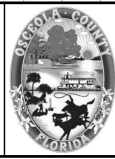


13+80.60

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

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PE # 50682

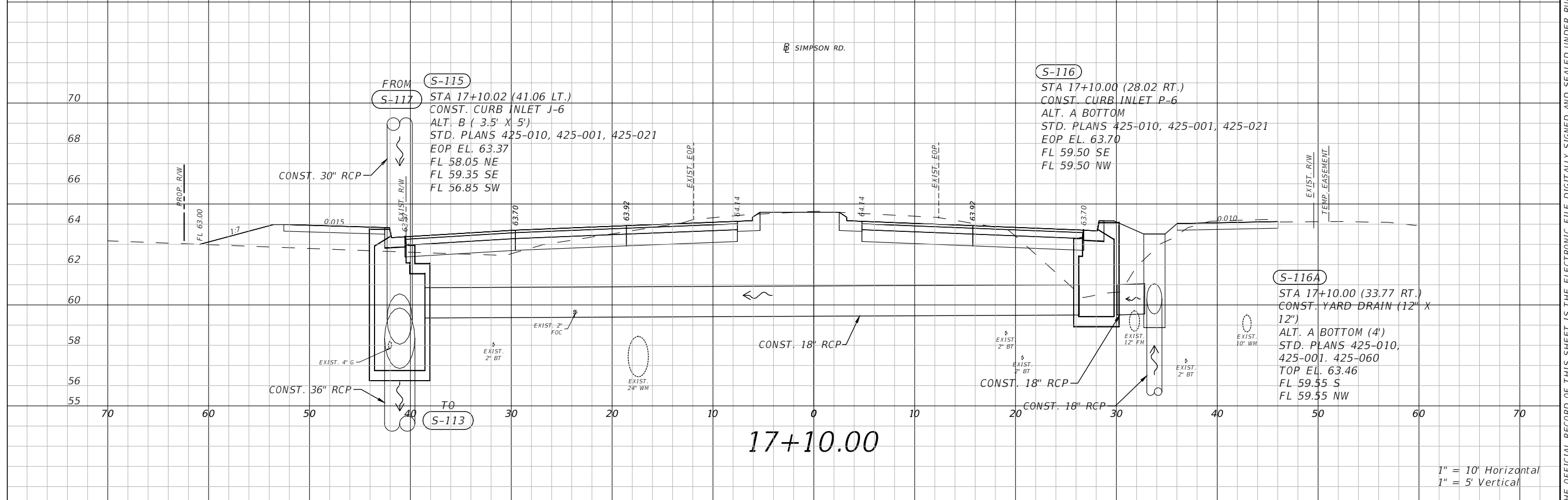
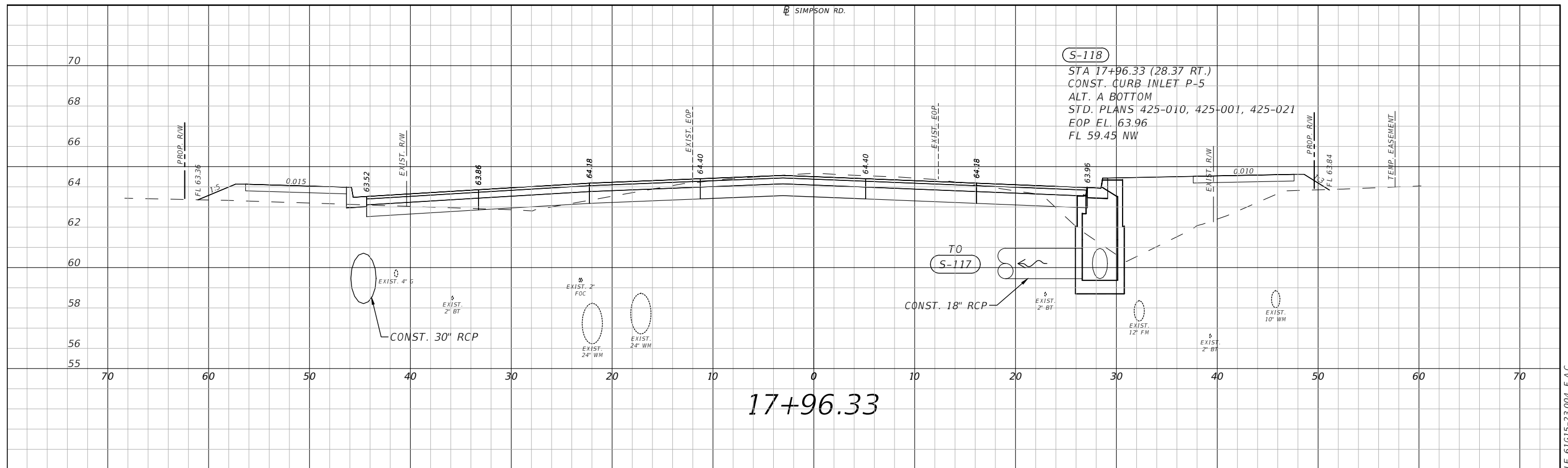


OSCEOLA COUNTY
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**SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 3**

SHEET NO.
36

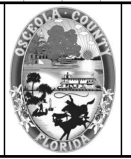
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1" = 10' Horizontal
1" = 5' Vertical

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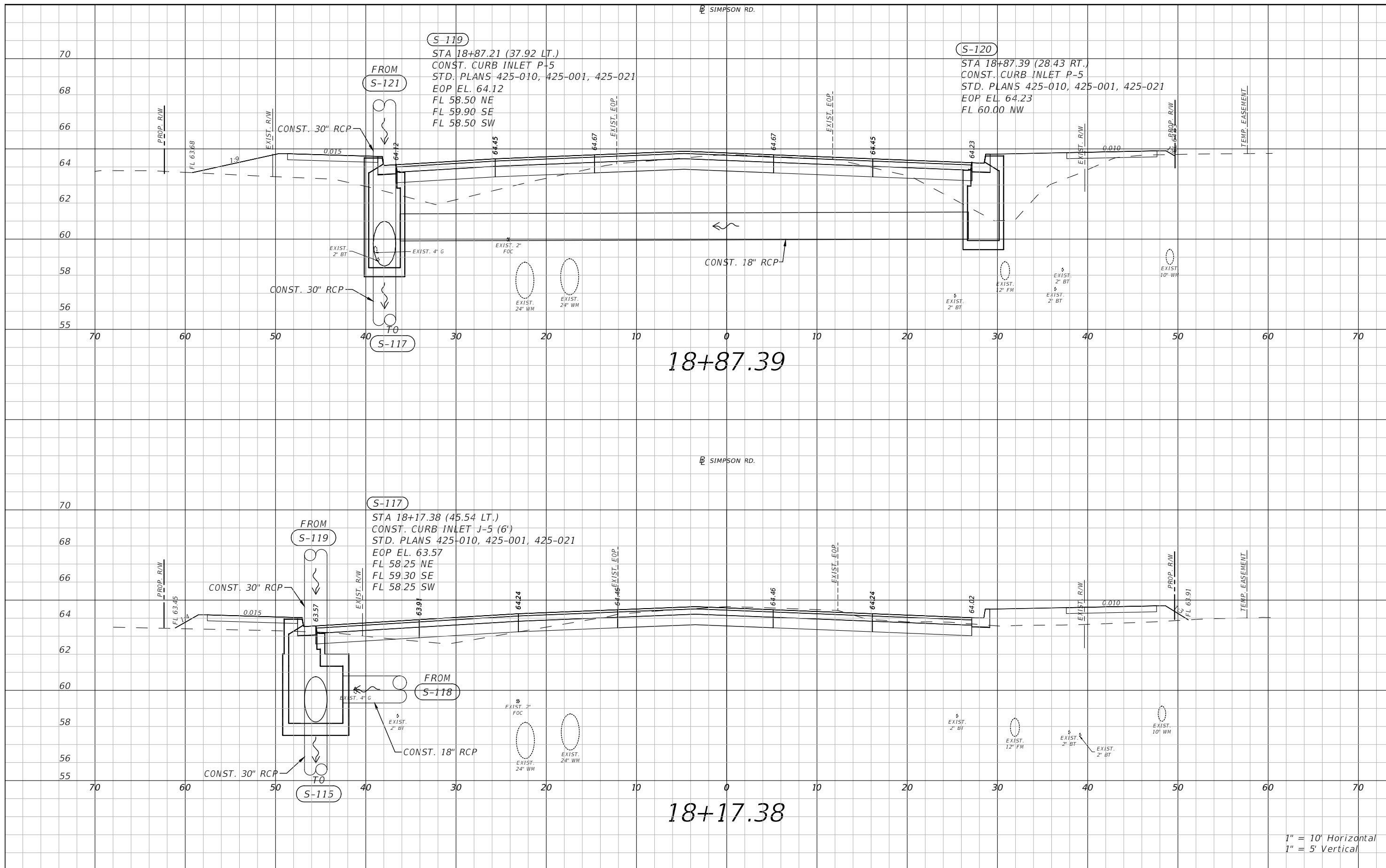


OSCEOLA COUNTY
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**SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 5**


SHEET NO.
38

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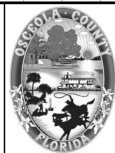


1" = 10' Horizontal
1" = 5' Vertical

REVISIONS			
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PE # 50682

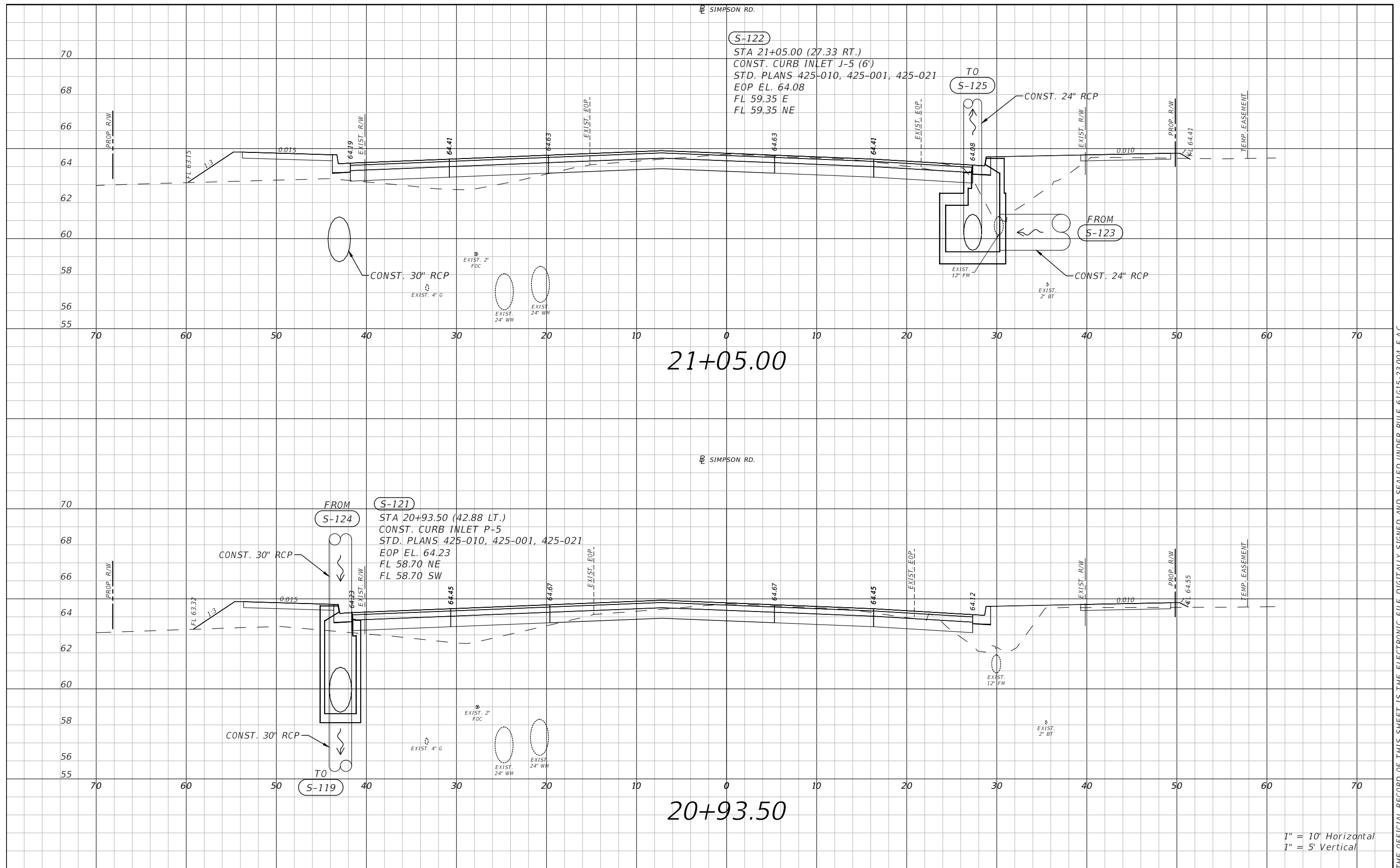


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**SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 6**

SHEET NO.
39

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

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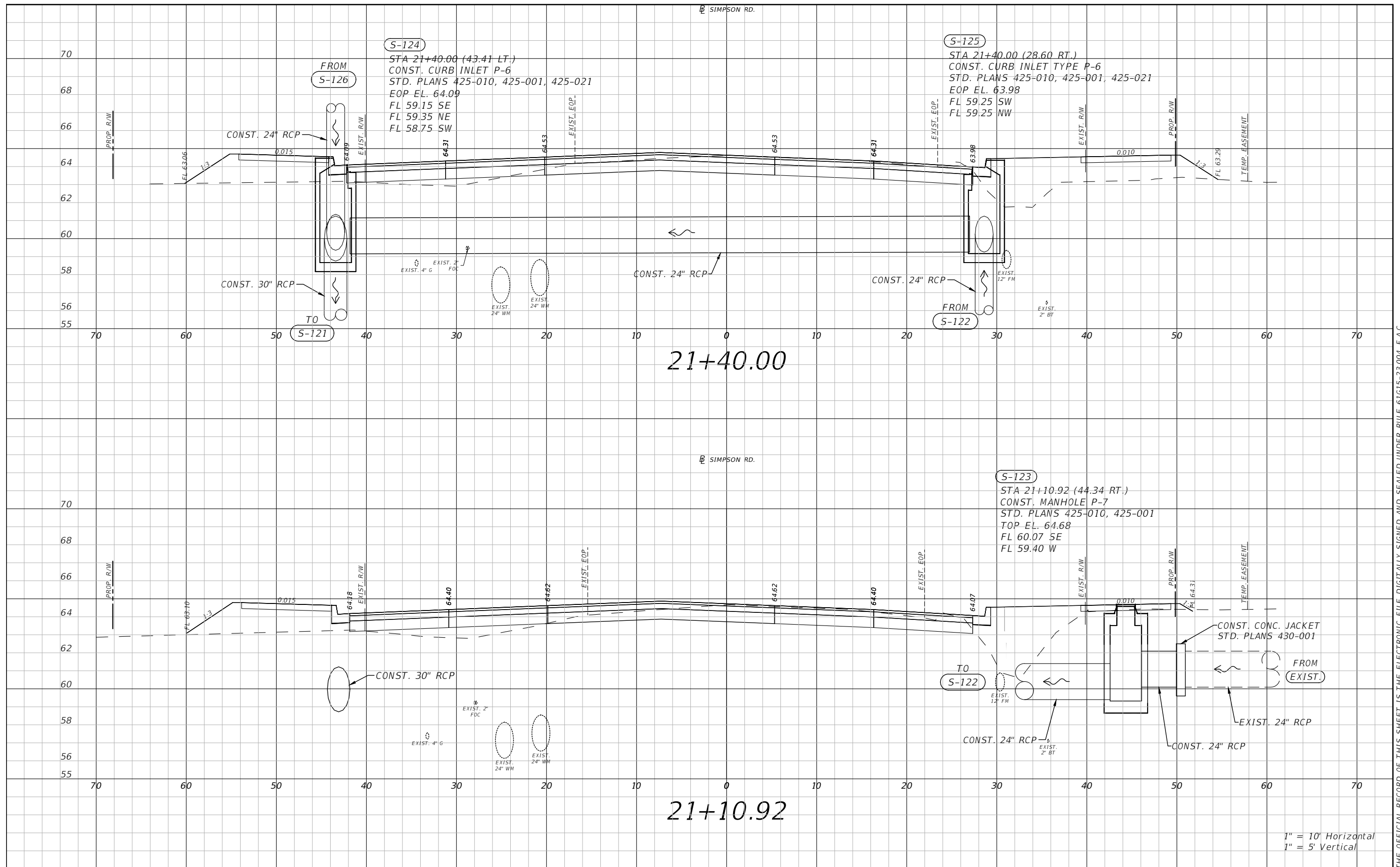


OSCEOLA COUNTY
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SIMPSON RD DRAINAGE
 STRUCTURE SECTIONS SHEET 7

SHEET NO.
 40

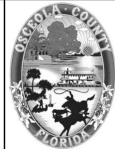
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DATE	DESCRIPTION	DATE	DESCRIPTION

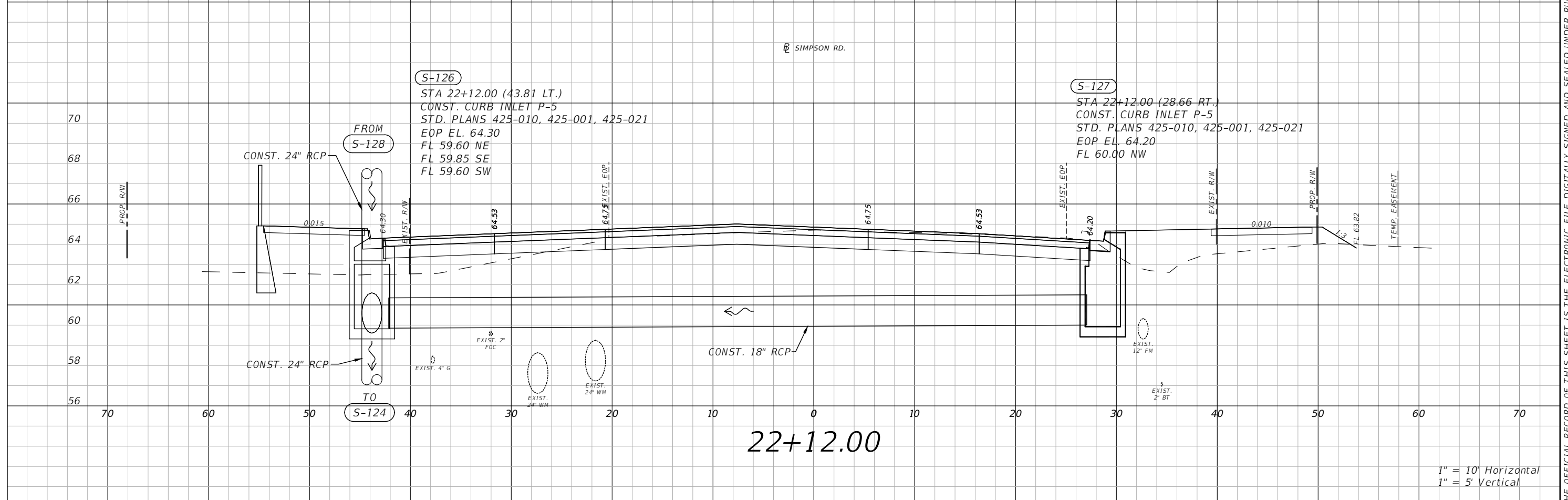
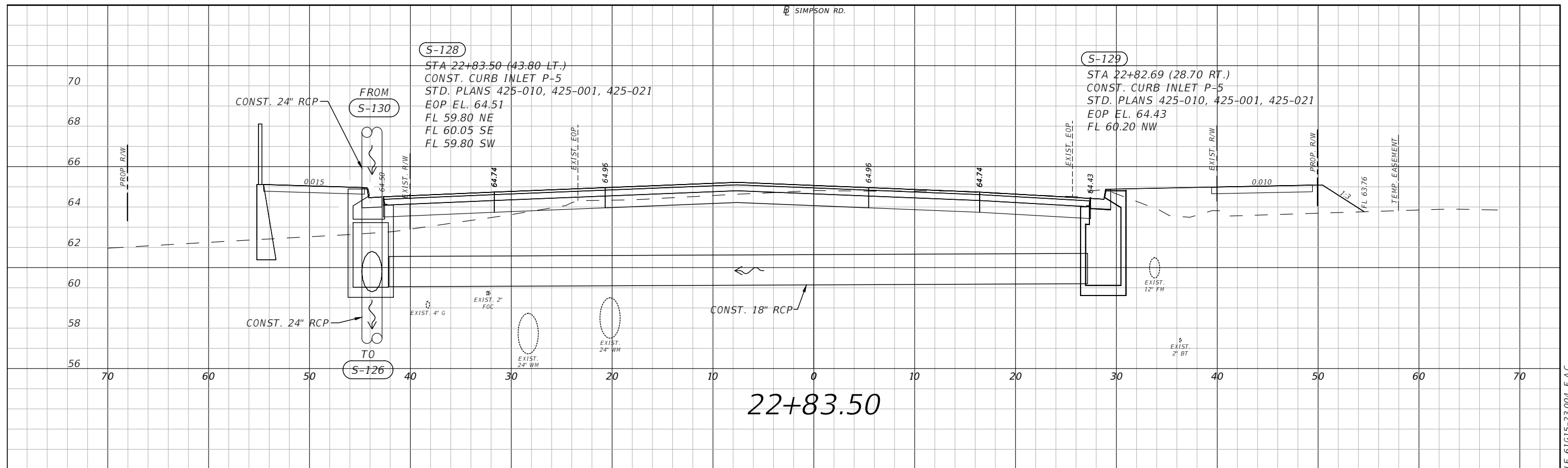
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 PE # 50682



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**SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 8**

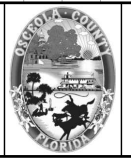
SHEET NO.
41



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

REVISIONS			
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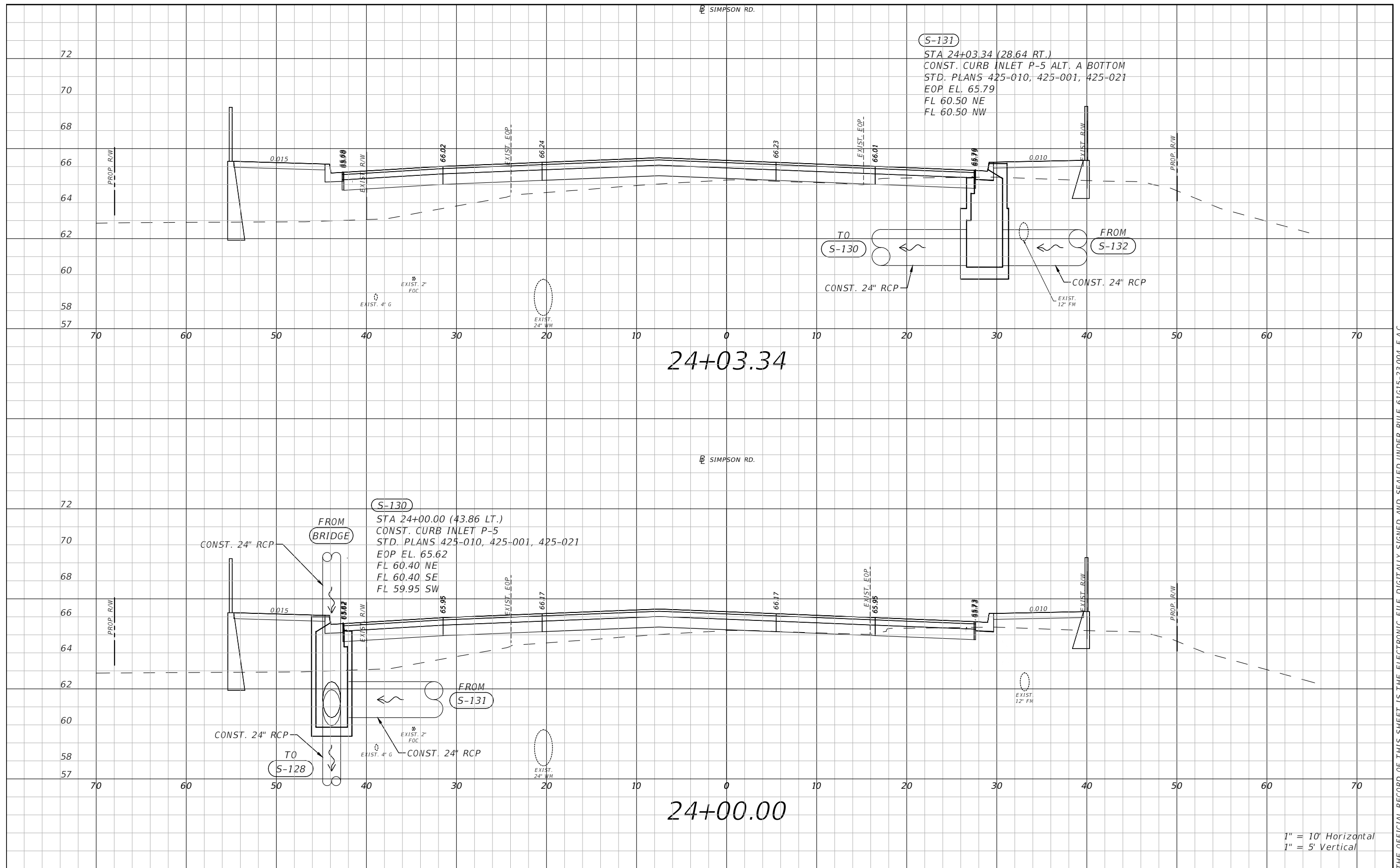


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**SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 9**

SHEET NO.
42

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 1" = 5' Vertical

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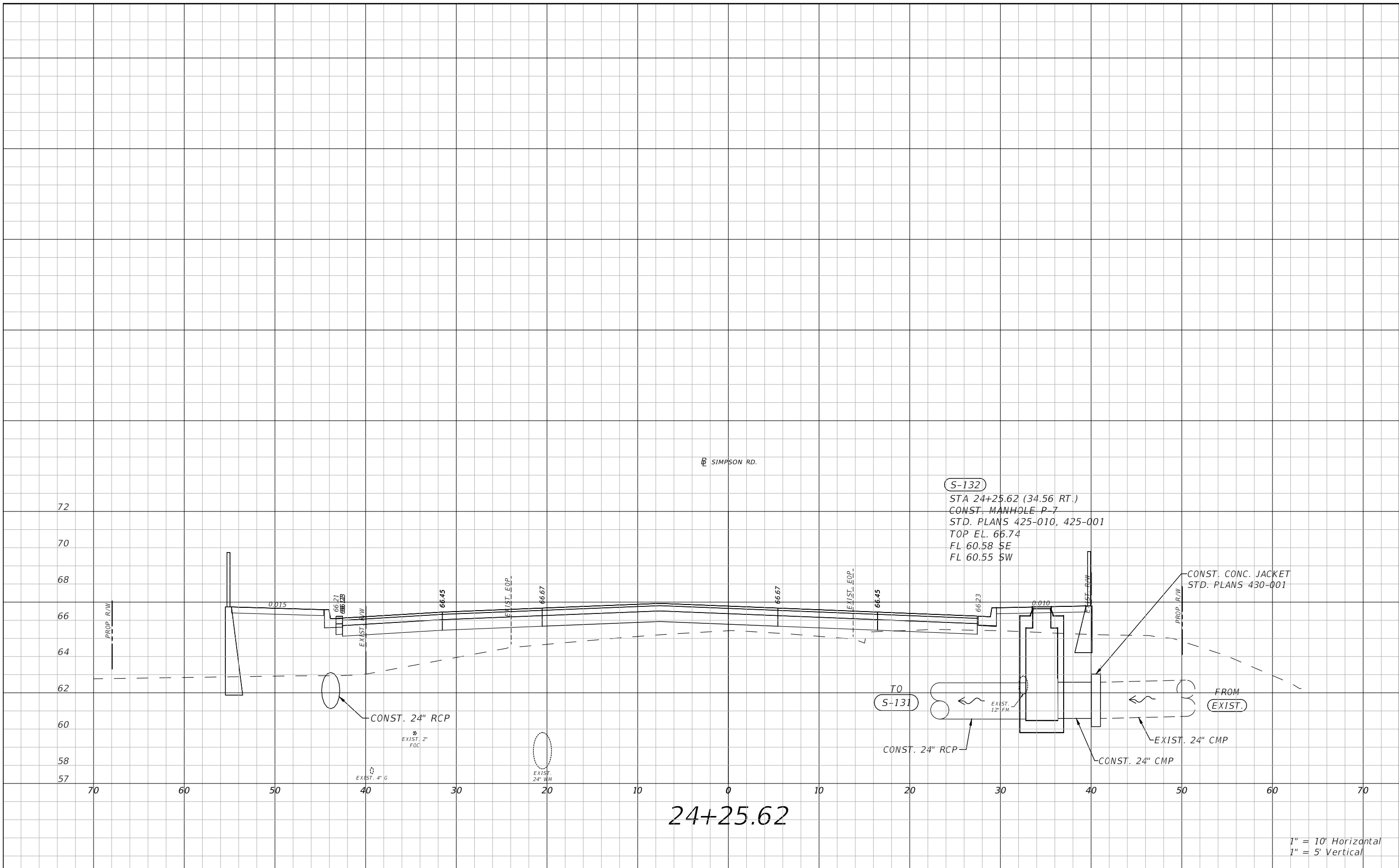


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**SIMPSON RD DRAINAGE
 STRUCTURE SECTIONS SHEET 10**

SHEET NO.
 43

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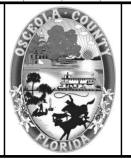


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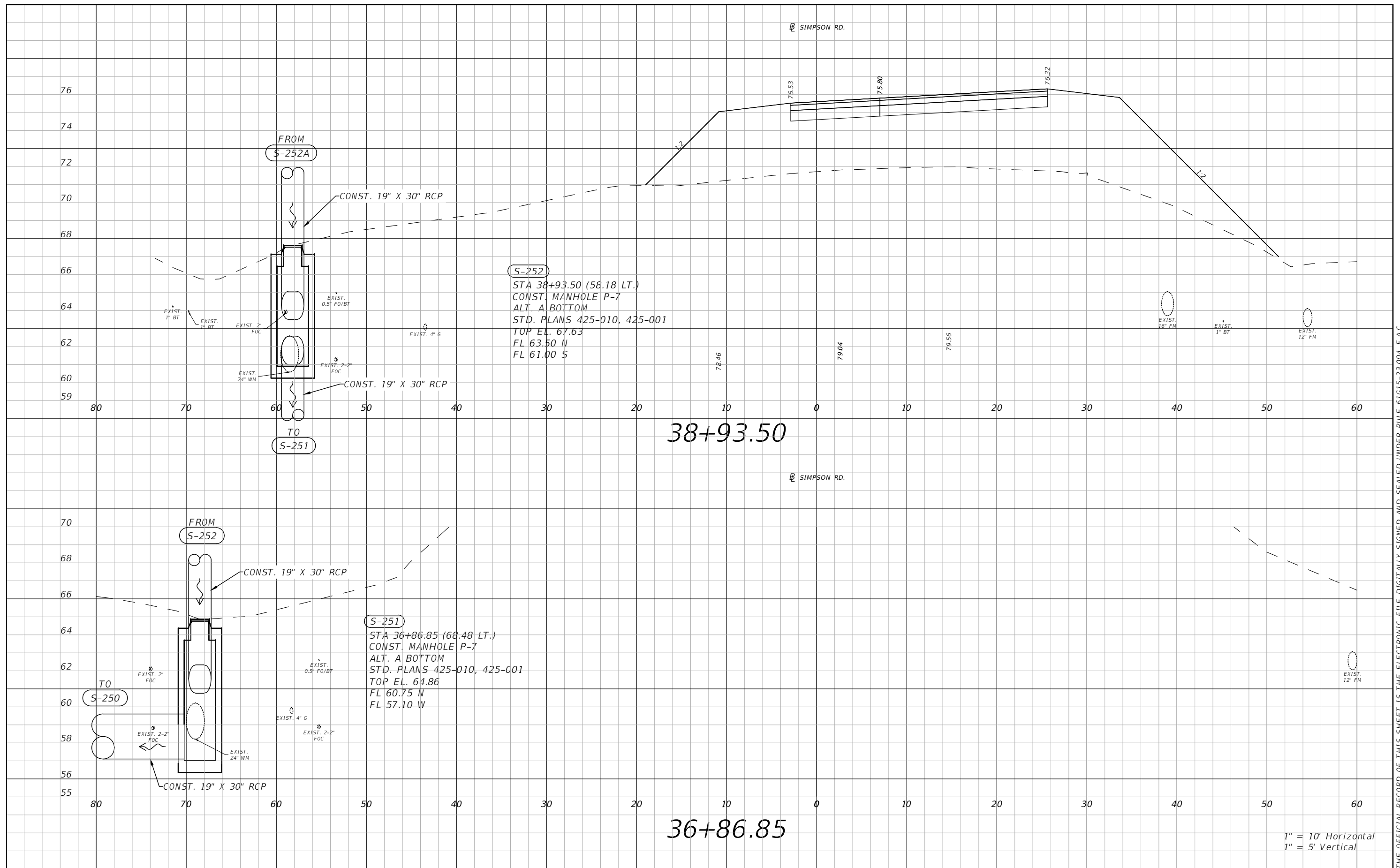
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**SIMPSON RD DRAINAGE
 STRUCTURE SECTIONS SHEET 11**

SHEET
 NO.
 44



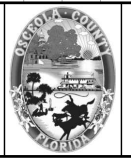
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1" = 10' Horizontal
1" = 5' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



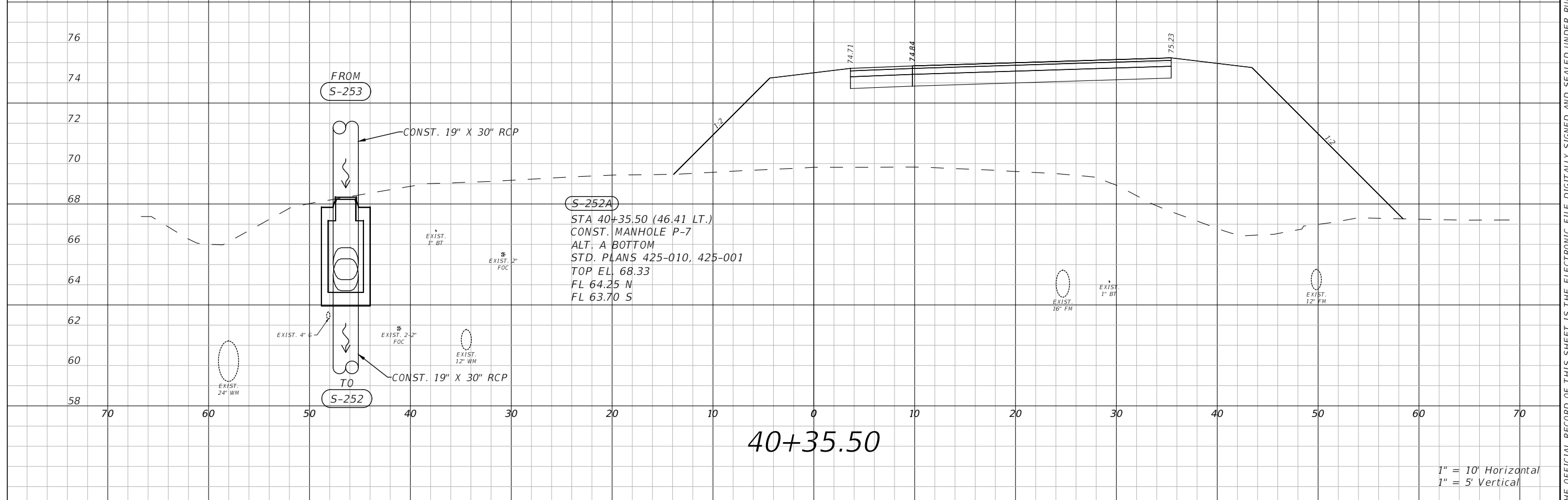
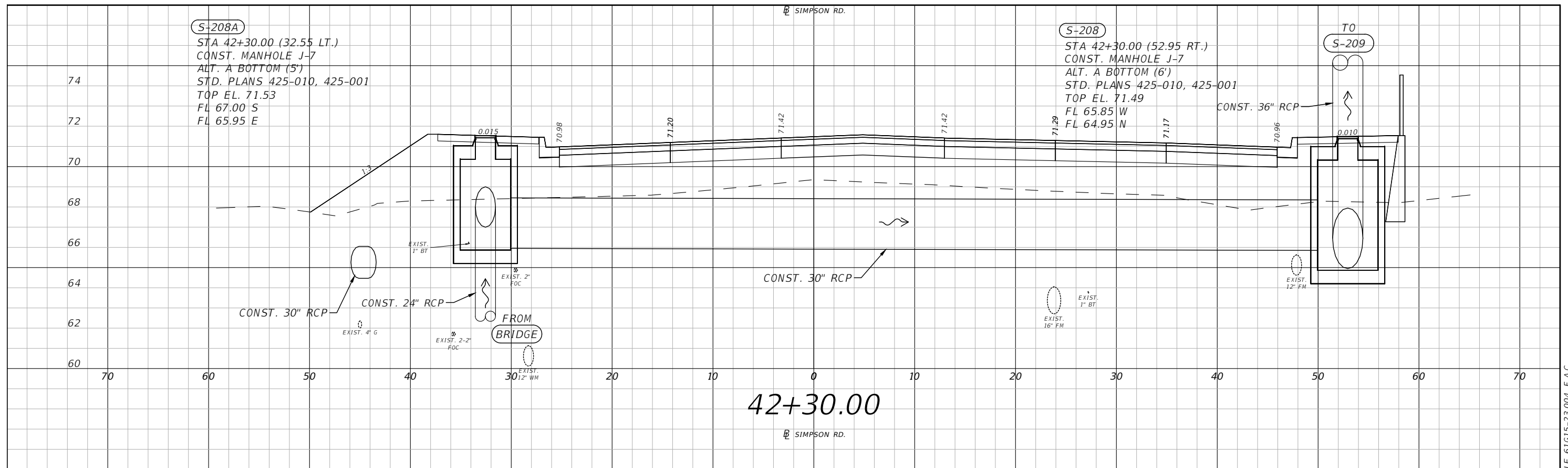
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PE # 50682



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**SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 12**

SHEET NO.
45



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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

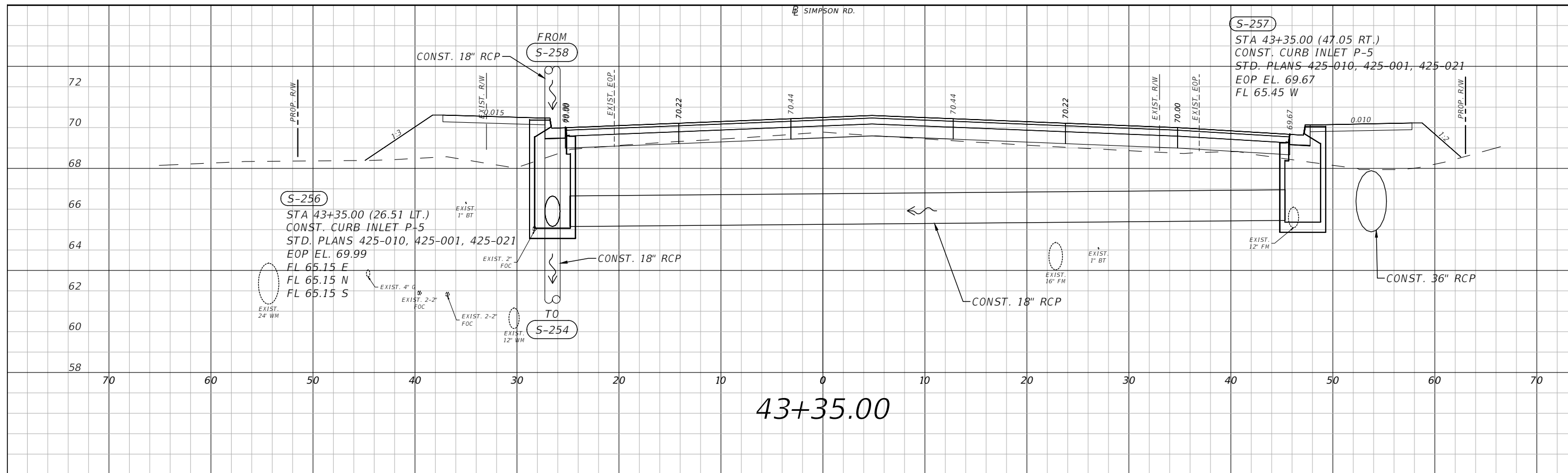

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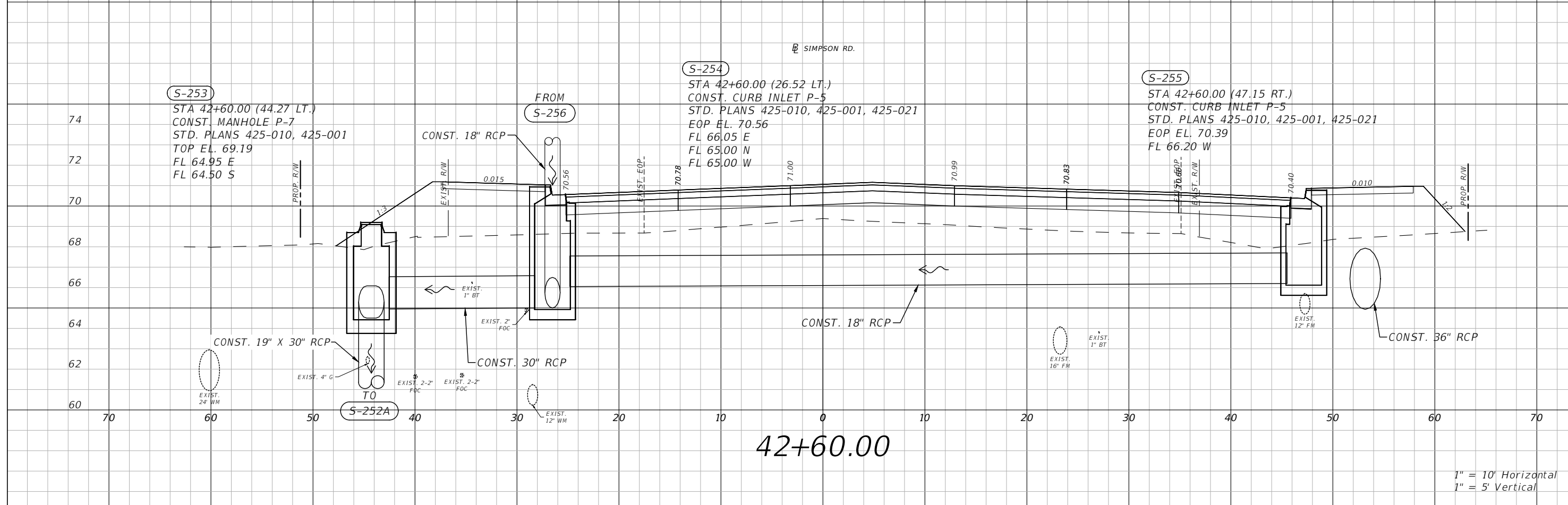
SIMPSON RD DRAINAGE
 STRUCTURE SECTIONS SHEET 13

SHEET
 NO.
 46

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43+35.00



42+60.00

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

REVISIONS			
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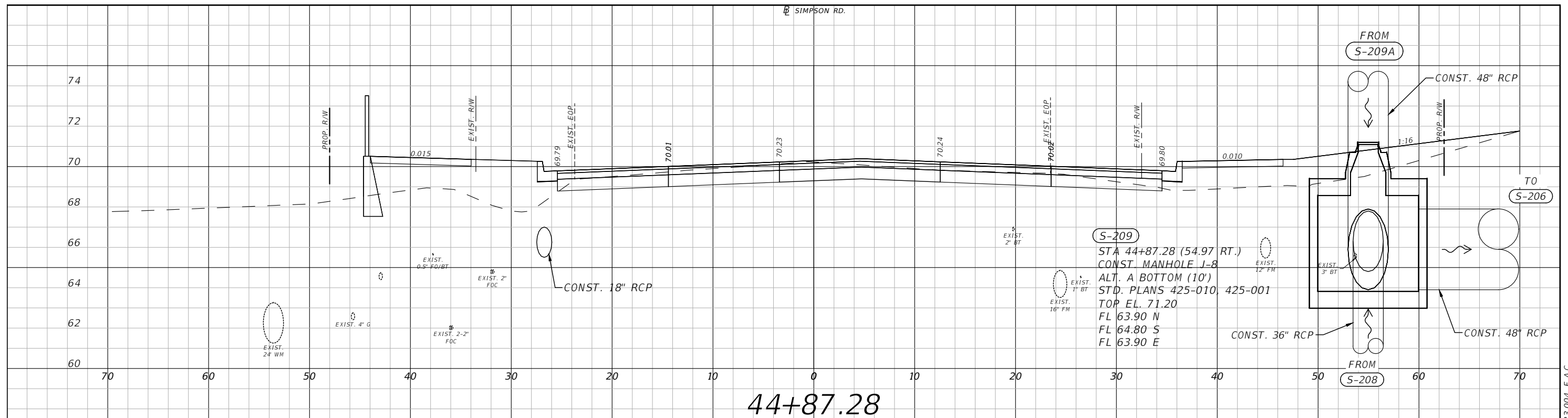


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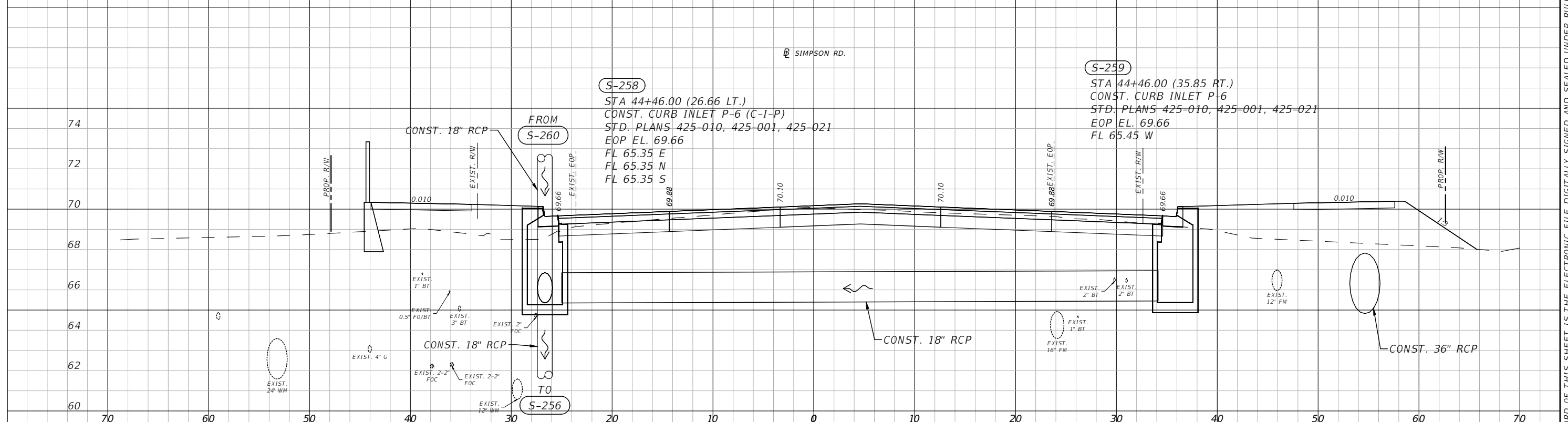
SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 14

SHEET
NO.
47

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44+87.28

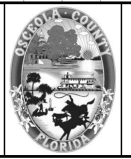


44+46.00

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

REVISIONS			
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Planners | Designers
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Orlando, FL 32801 (407)839-4006
Certificate of Authorization # 3932
Paul W. Yeargain, P.E.
PE # 50682

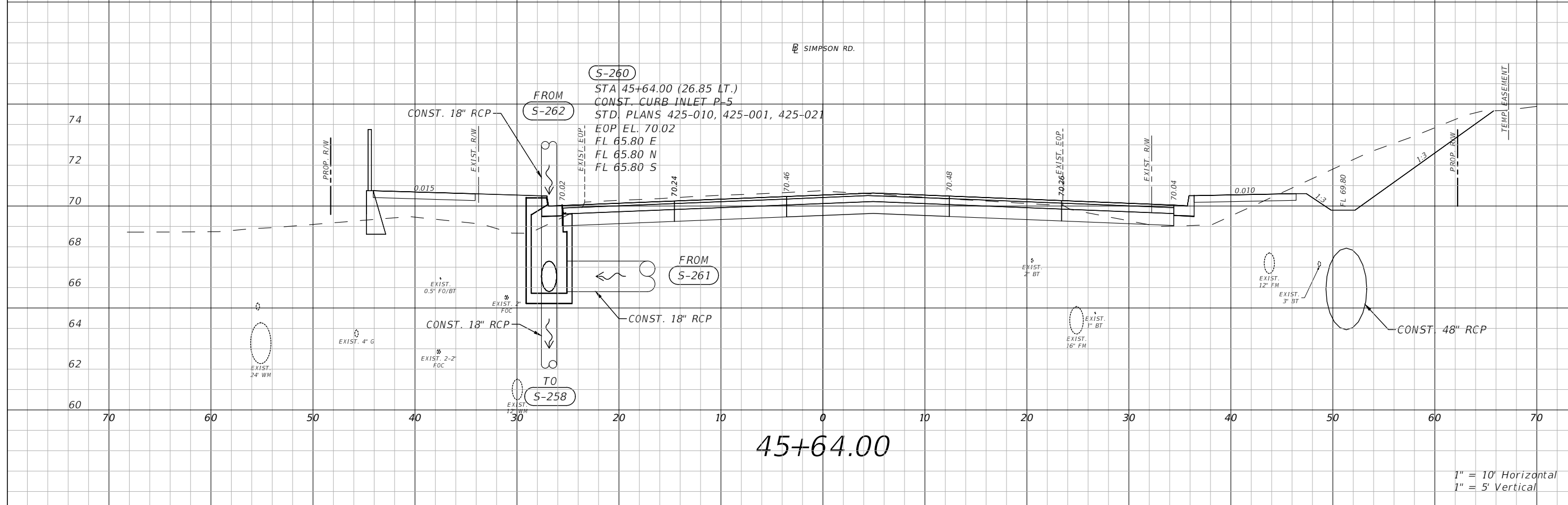
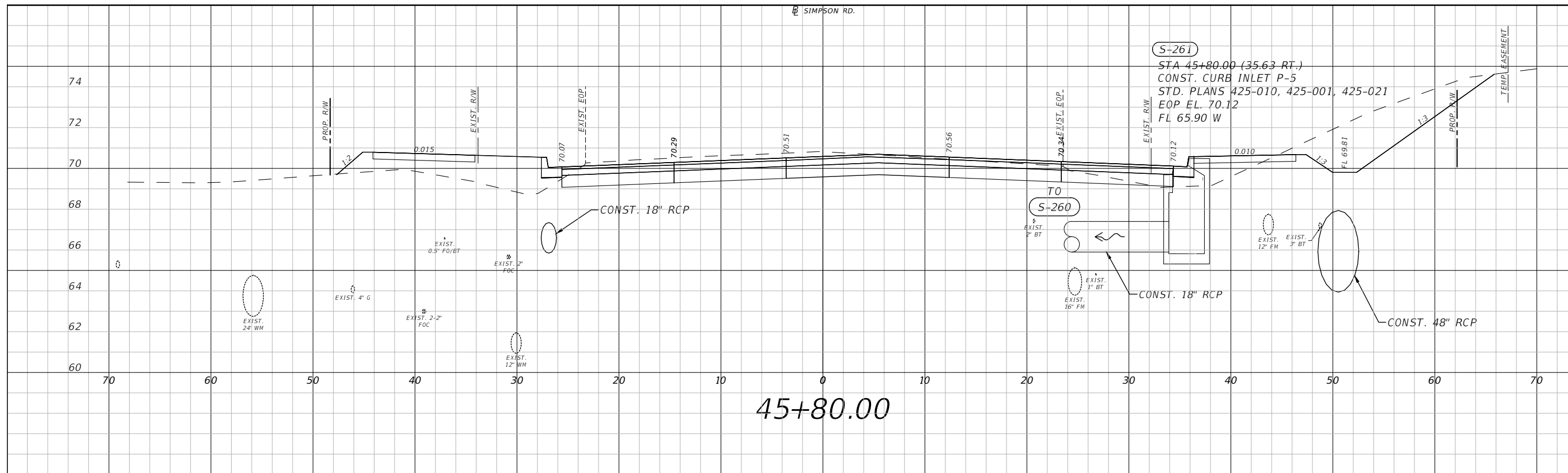


OSCEOLA COUNTY
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**SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 15**

SHEET NO.
48

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

REVISIONS			
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 Planners | Designers
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 Certificate of Authorization # 3932
 Mark W. Bestgen P.E.
 PE # 69682

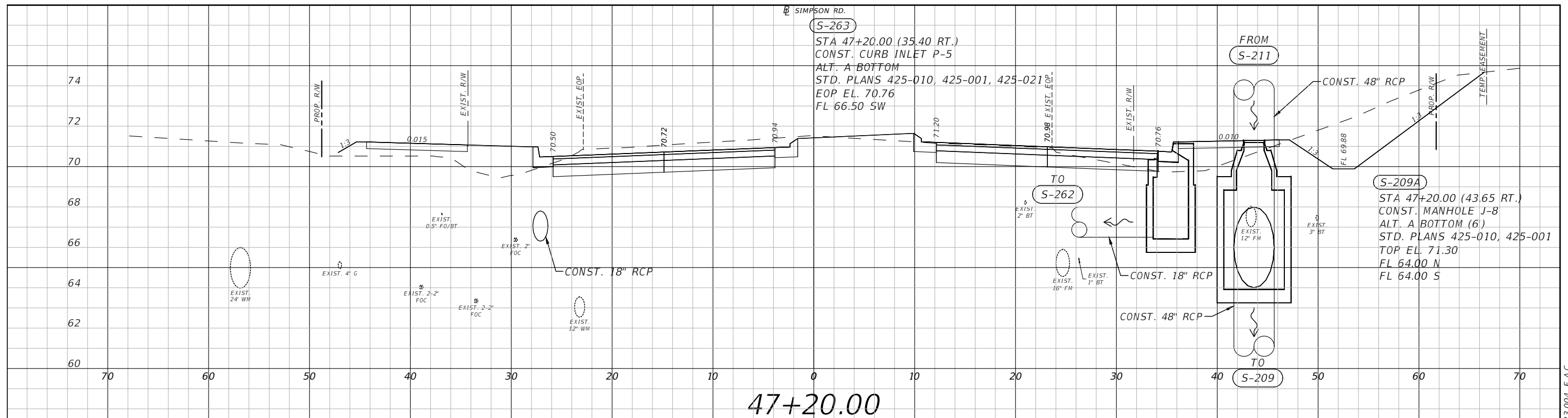


OSCEOLA COUNTY
 FLORIDA

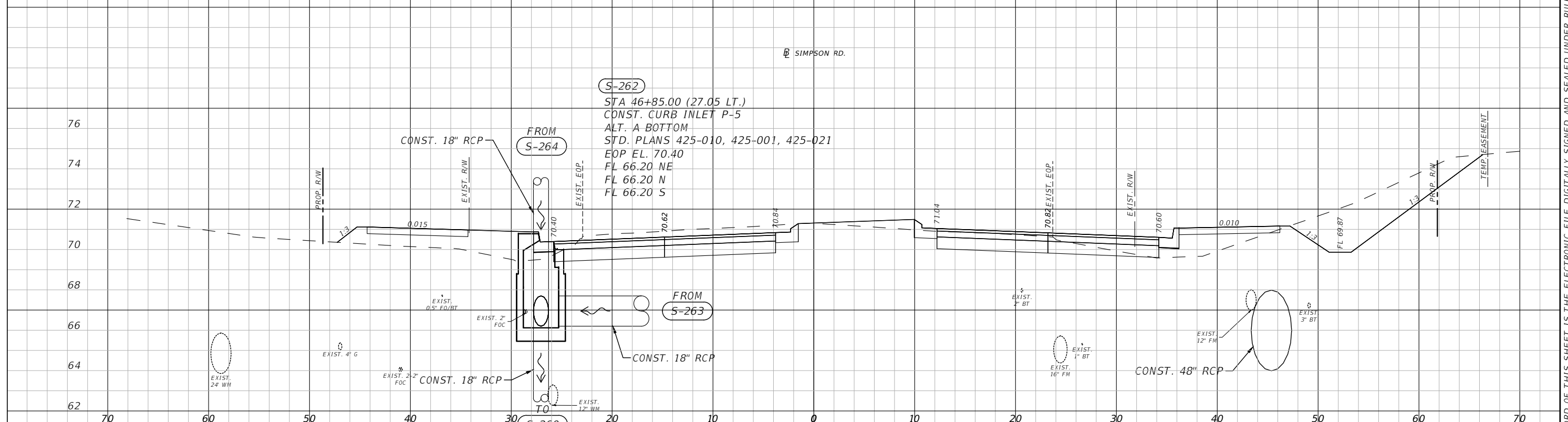
**SIMPSON RD DRAINAGE
 STRUCTURE SECTIONS SHEET 16**

SHEET NO.
 49

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47+20.00



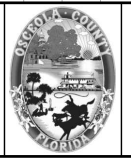
46+85.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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225 E. Robinson Street, Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization # 3932
Paul W. Yeargain, P.E.
PE # 50682

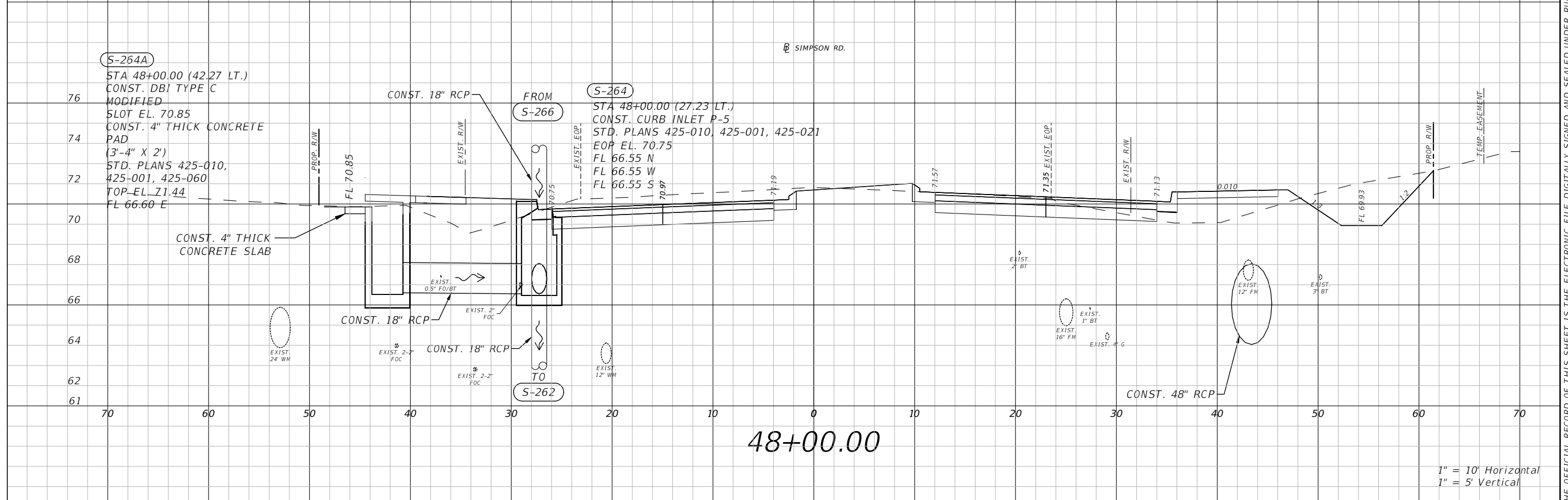
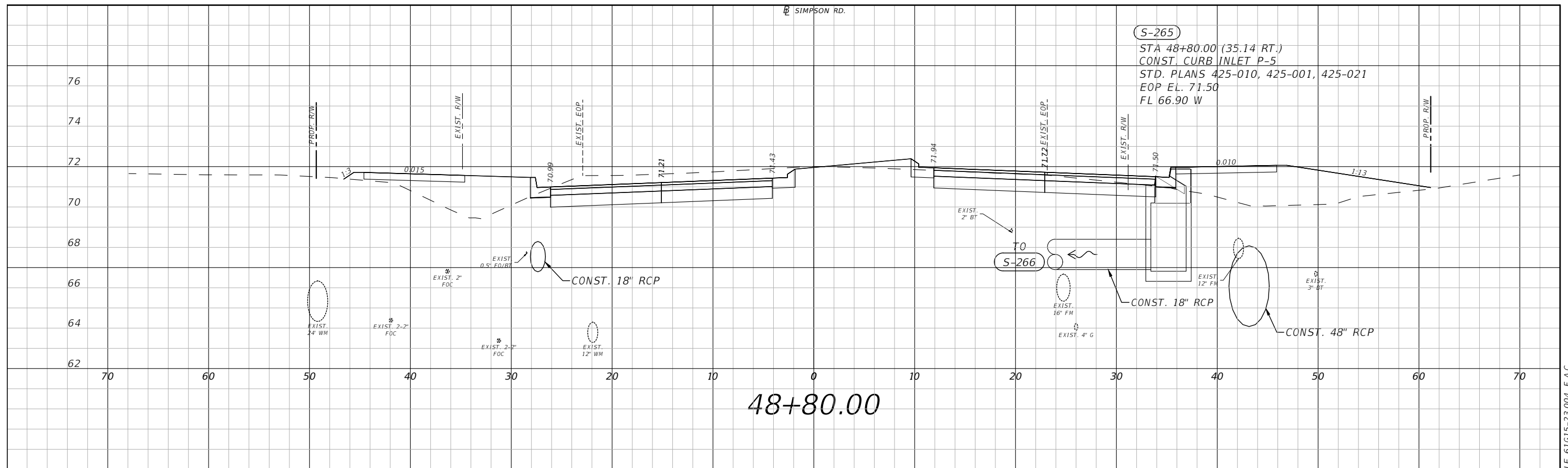


OSCEOLA COUNTY
FLORIDA

**SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 17**

SHEET NO.
50

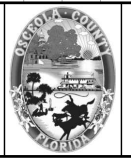
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1" = 10' Horizontal
1" = 5' Vertical

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Paul W. Yeargain, P.E.
PE # 50682

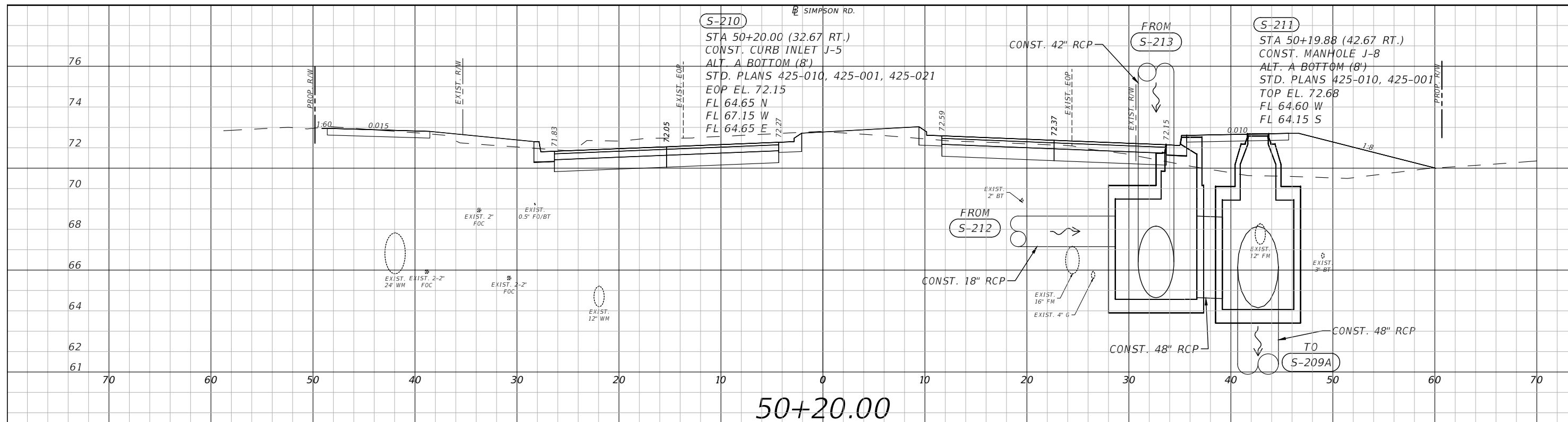


OSCEOLA COUNTY
FLORIDA

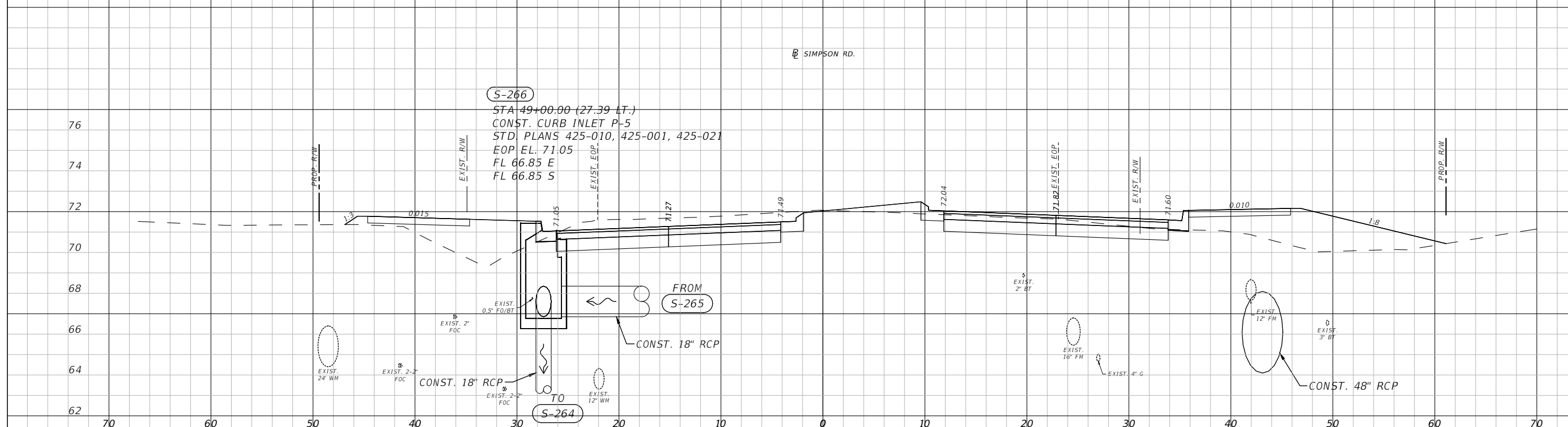
**SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 18**

SHEET NO.
51

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50+20.00

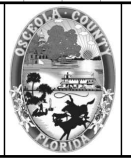


49+00.00

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

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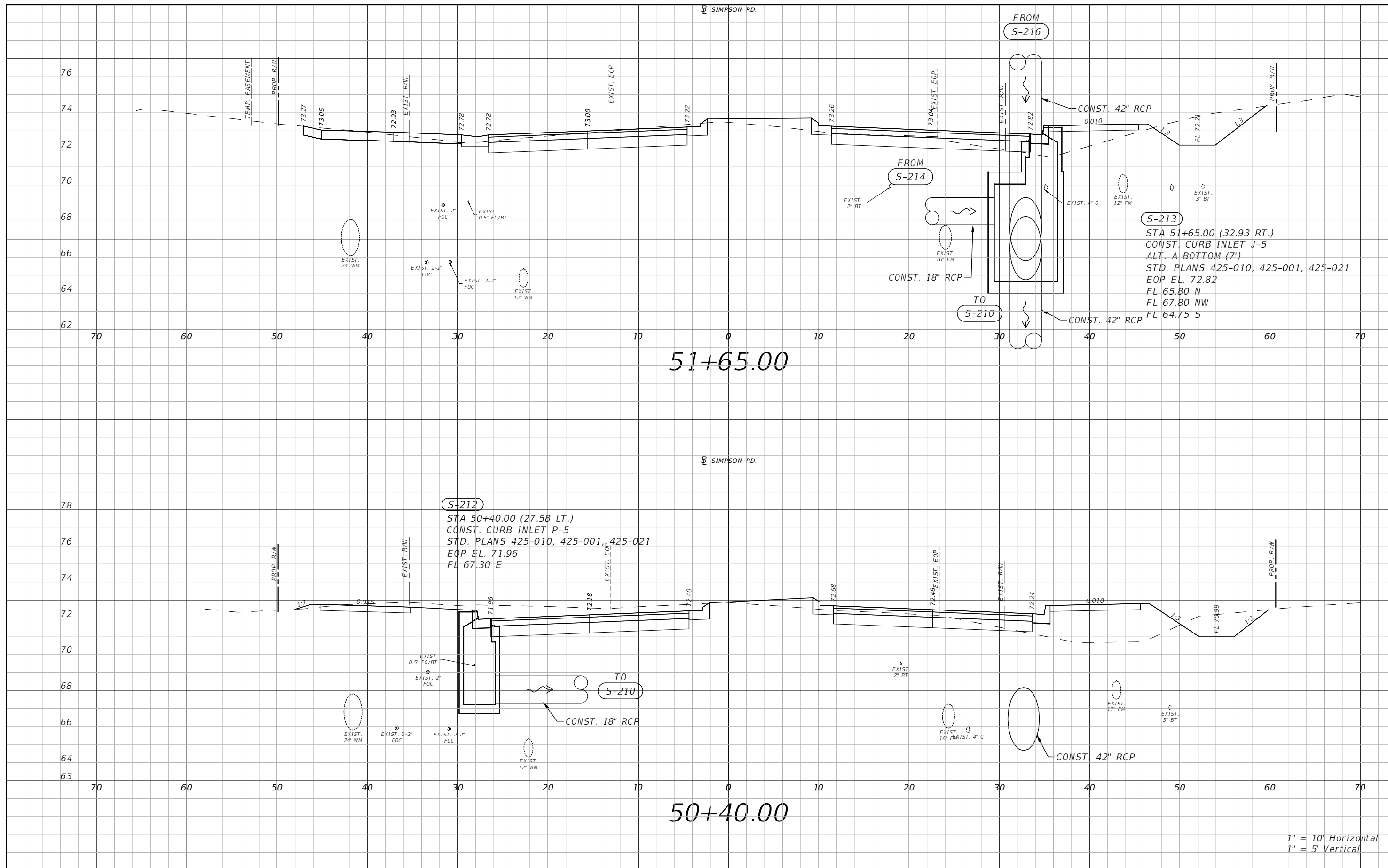


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SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 19


SHEET NO.
52

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1" = 5' Vertical

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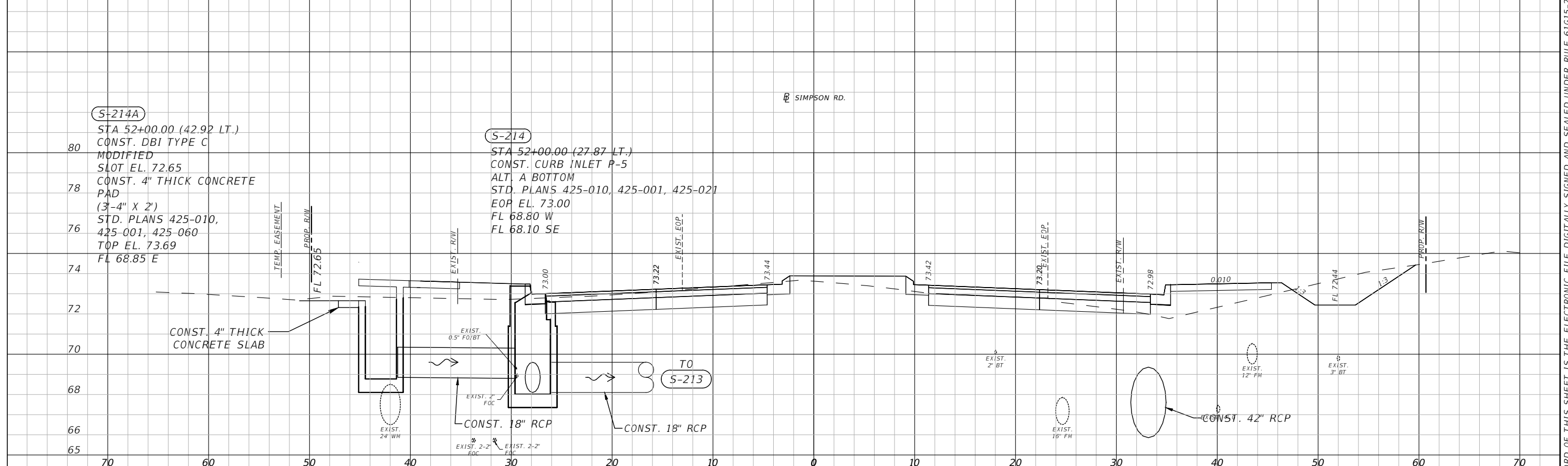
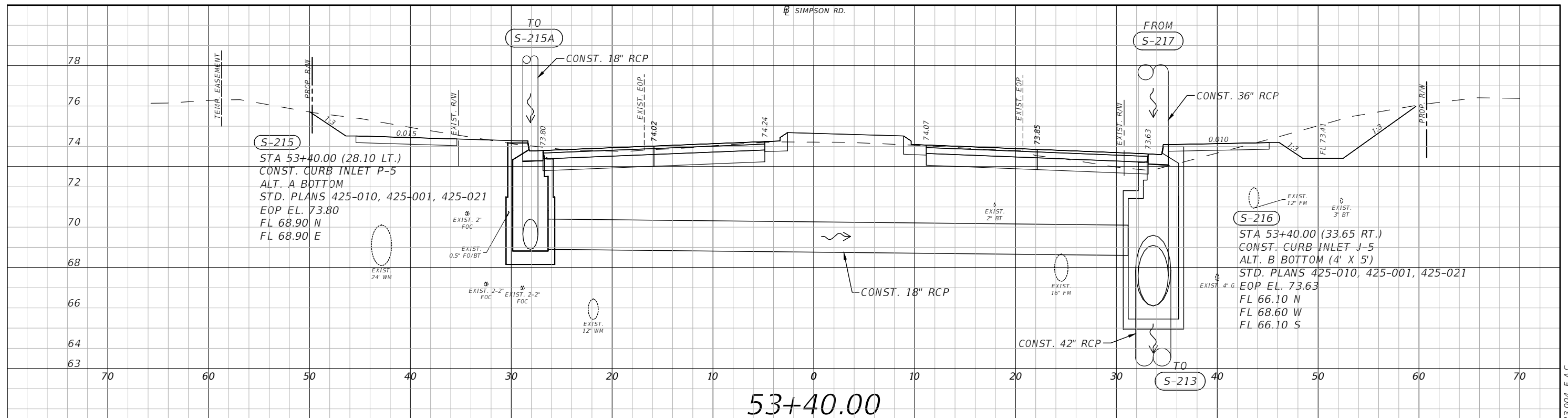


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**SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 20**


SHEET NO.
53

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

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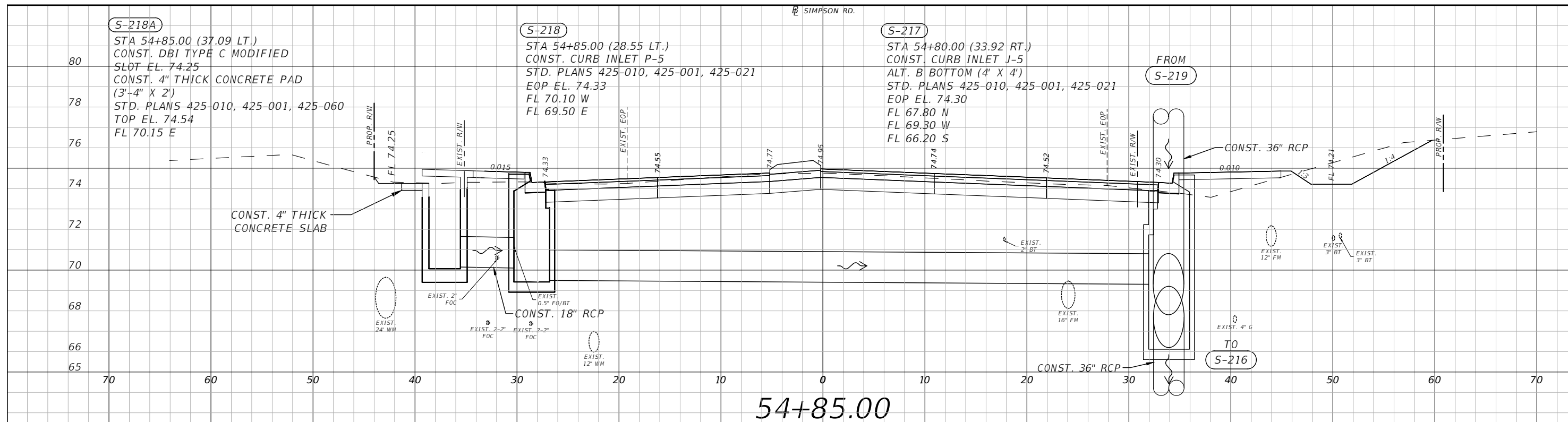


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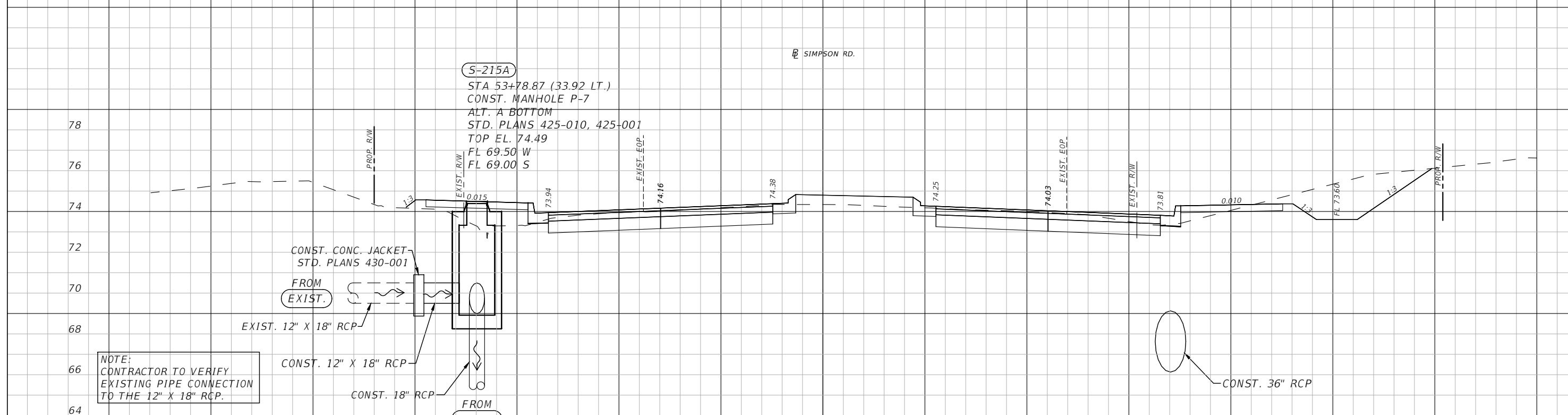
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STRUCTURE SECTIONS SHEET 21

SHEET NO.
54

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54+85.00

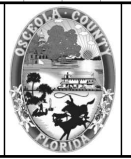


53+78.87

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

NOTE:
CONTRACTOR TO VERIFY
EXISTING PIPE CONNECTION
TO THE 12" X 18" RCP.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

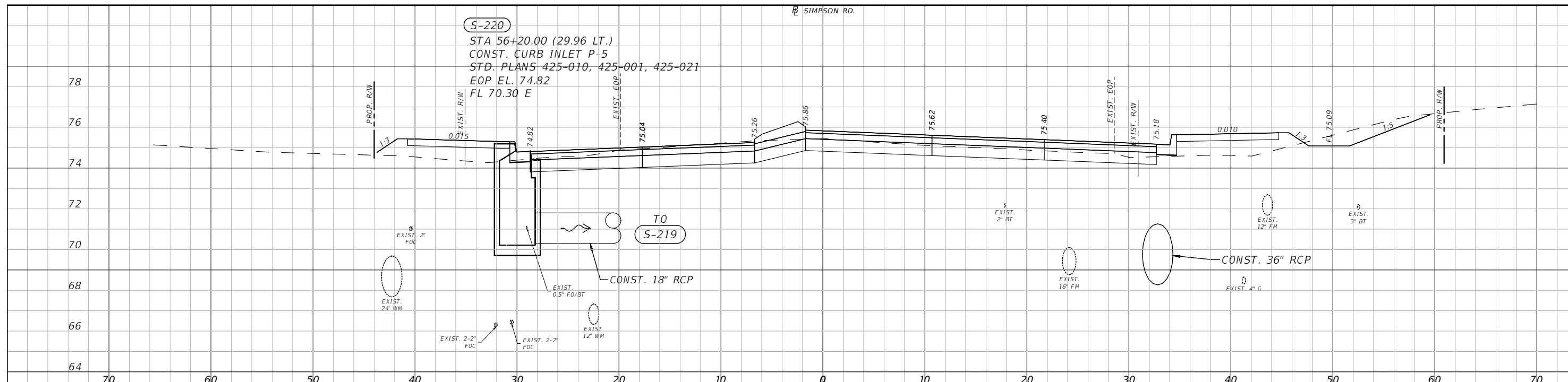


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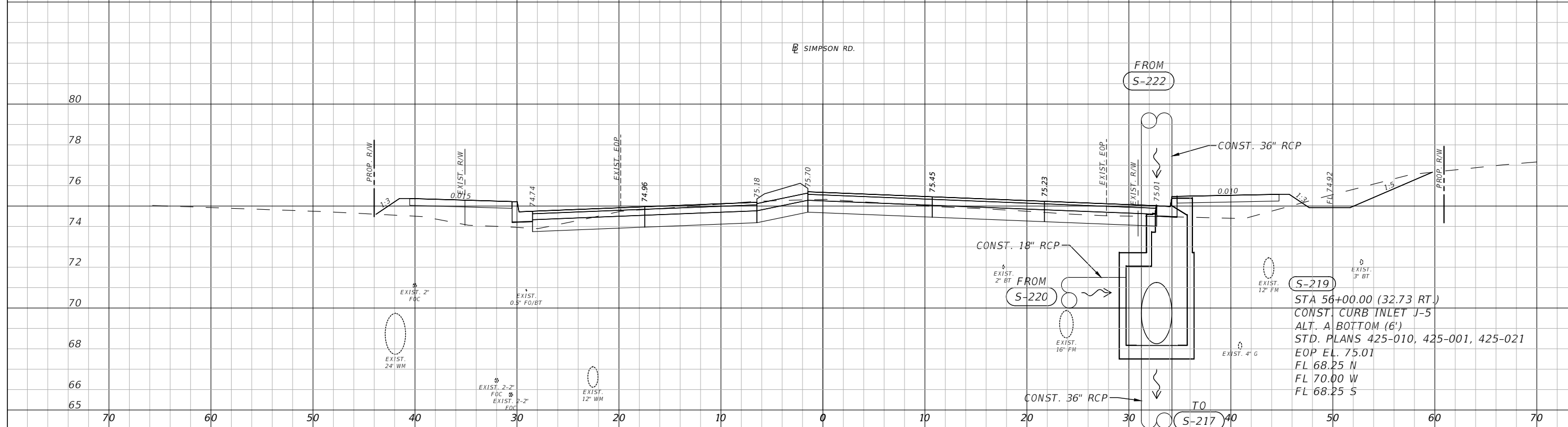
SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 22

SHEET NO.
55

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56+20.00



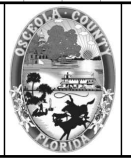
56+00.00

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

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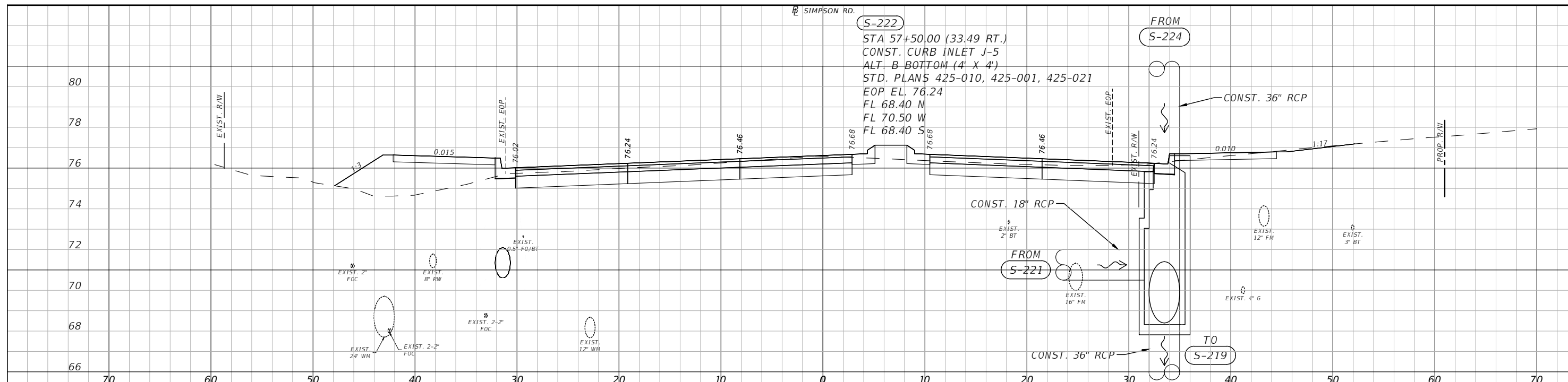


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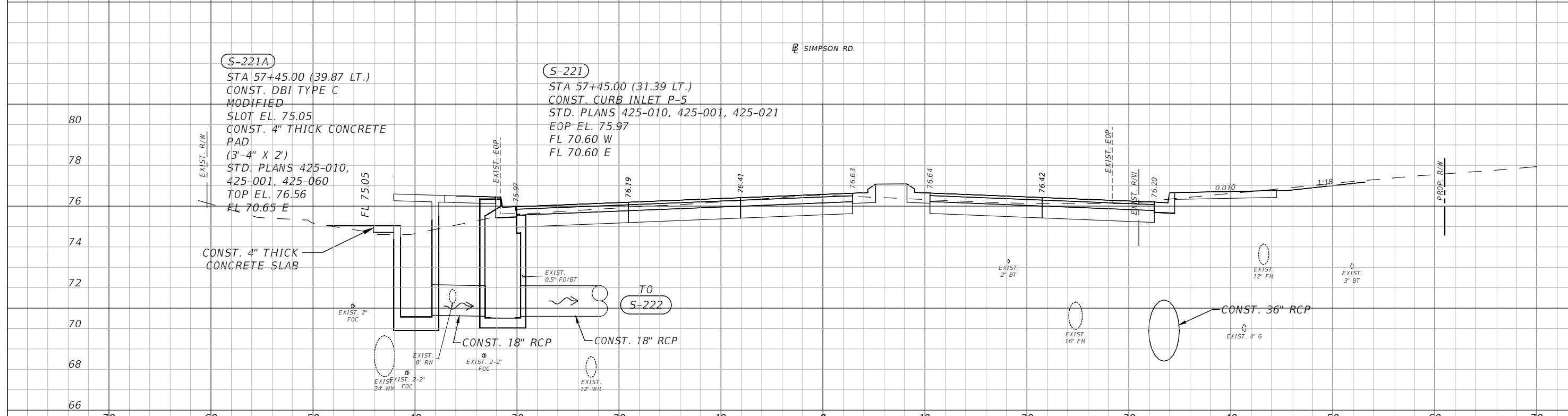
SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 23

SHEET NO.
56

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57+50.00

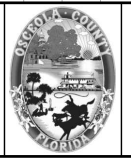


57+45.00

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

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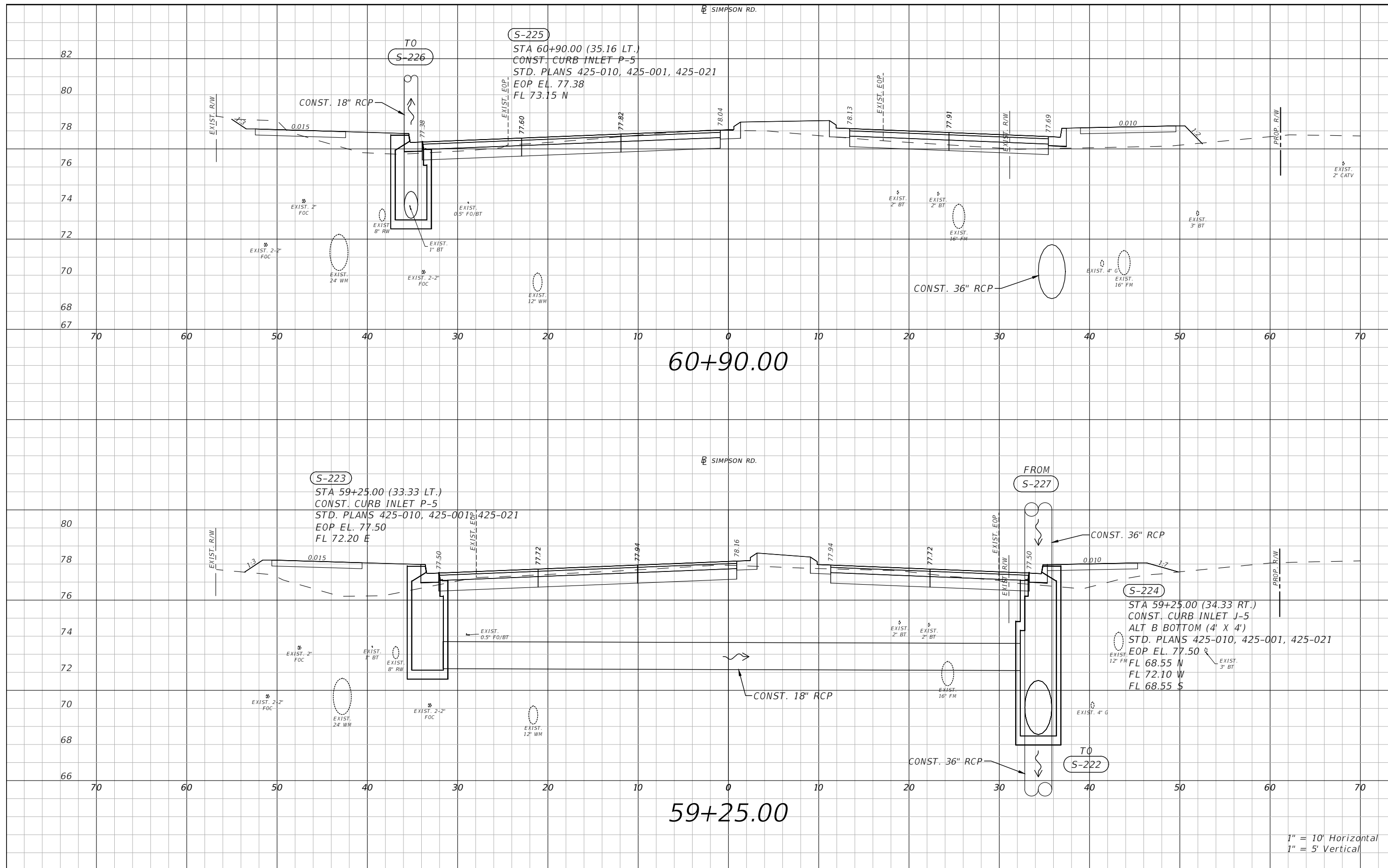


OSCEOLA COUNTY
FLORIDA

SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 24

SHEET NO.
57

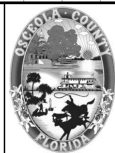
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1" = 10' Horizontal
1" = 5' Vertical

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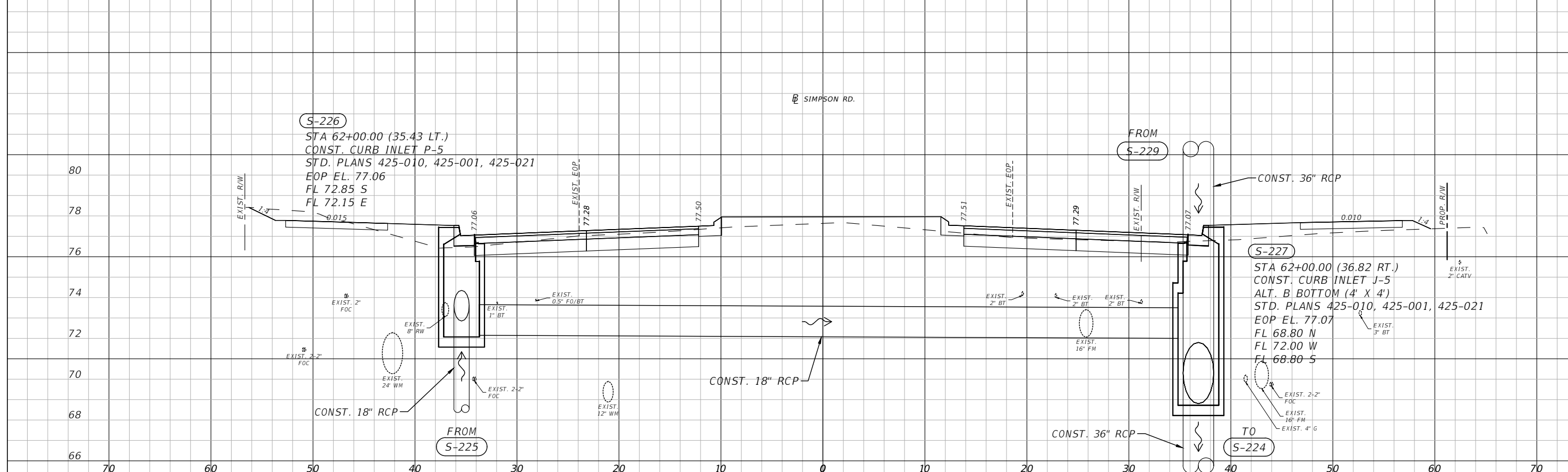
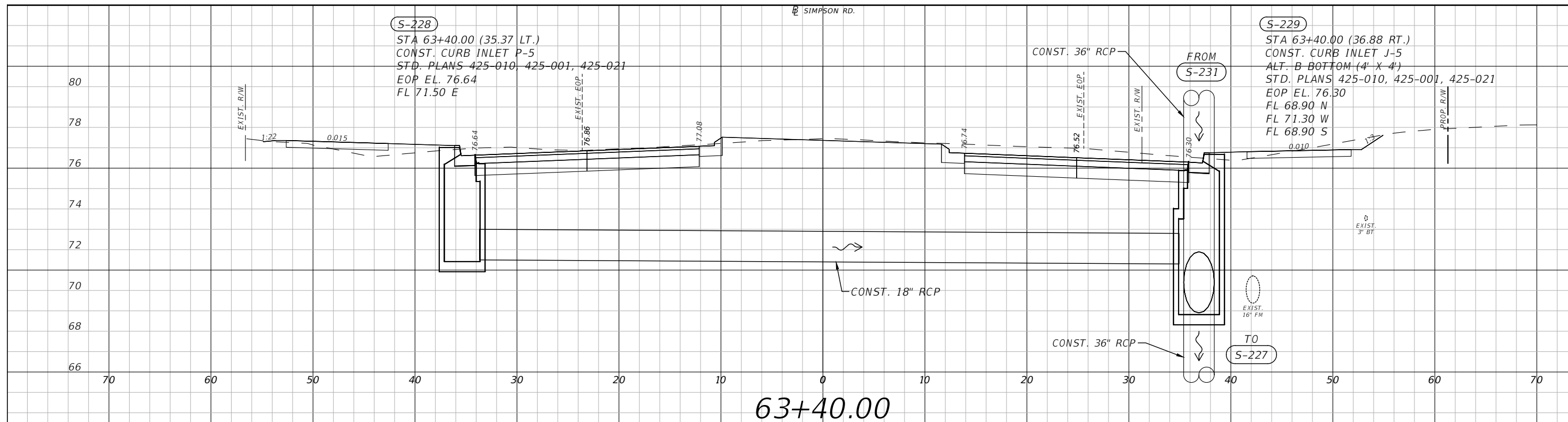


OSCEOLA COUNTY
FLORIDA

**SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 25**

SHEET NO.
58

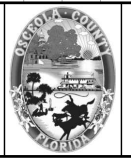
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1" = 10' Horizontal
1" = 5' Vertical

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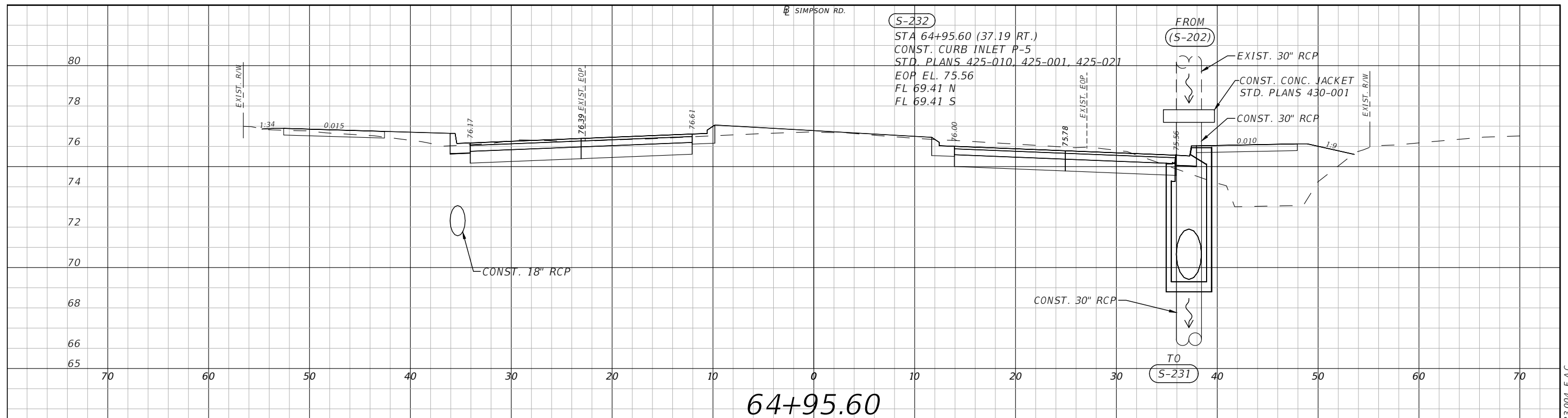


OSCEOLA COUNTY
FLORIDA

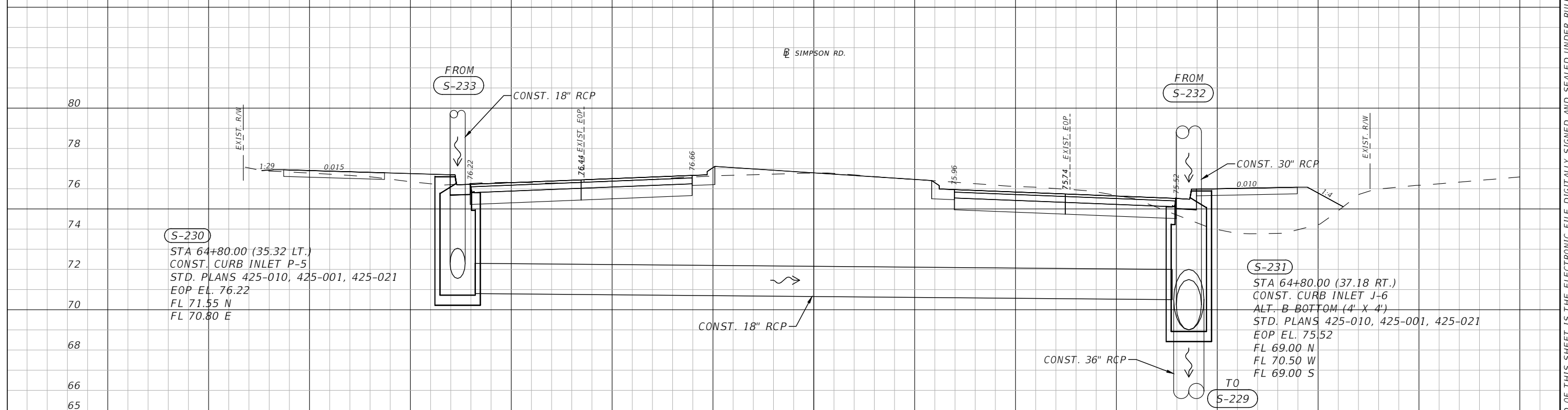
**SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 26**

SHEET NO.
59

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64+95.60

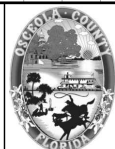


64+80.00

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

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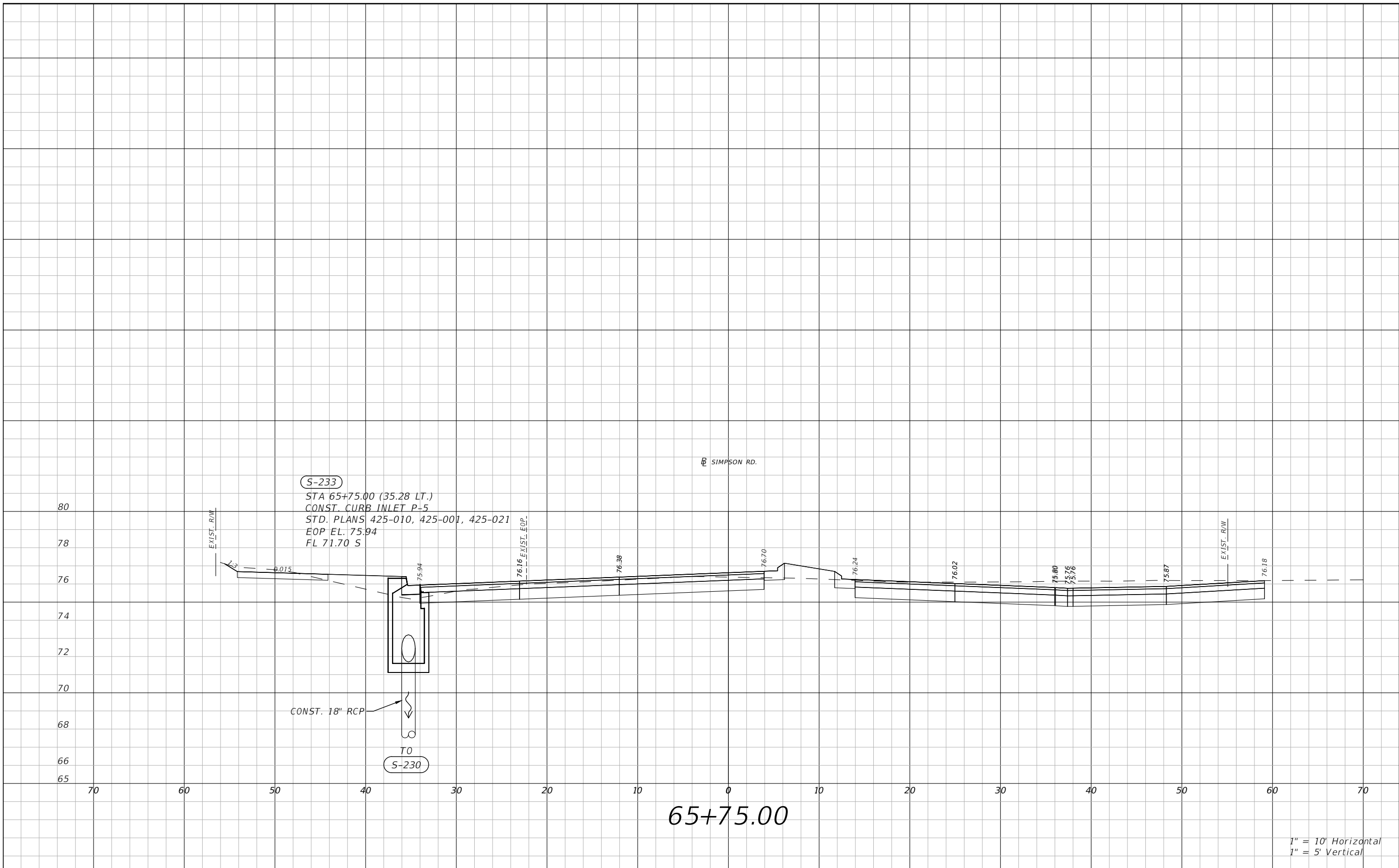


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SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 27

SHEET NO.
60

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65+75.00

1" = 10' Horizontal
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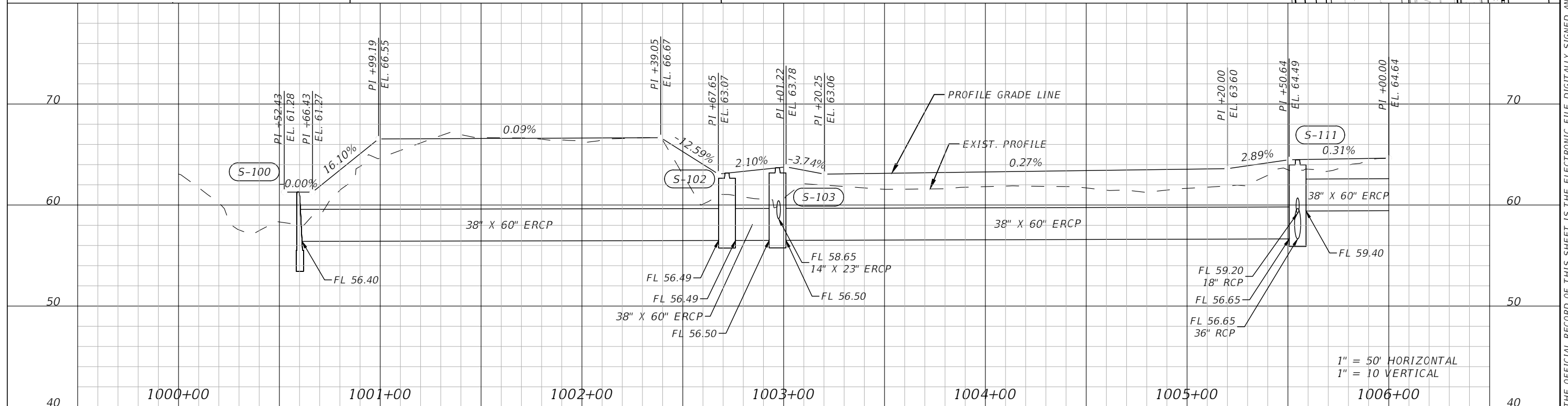
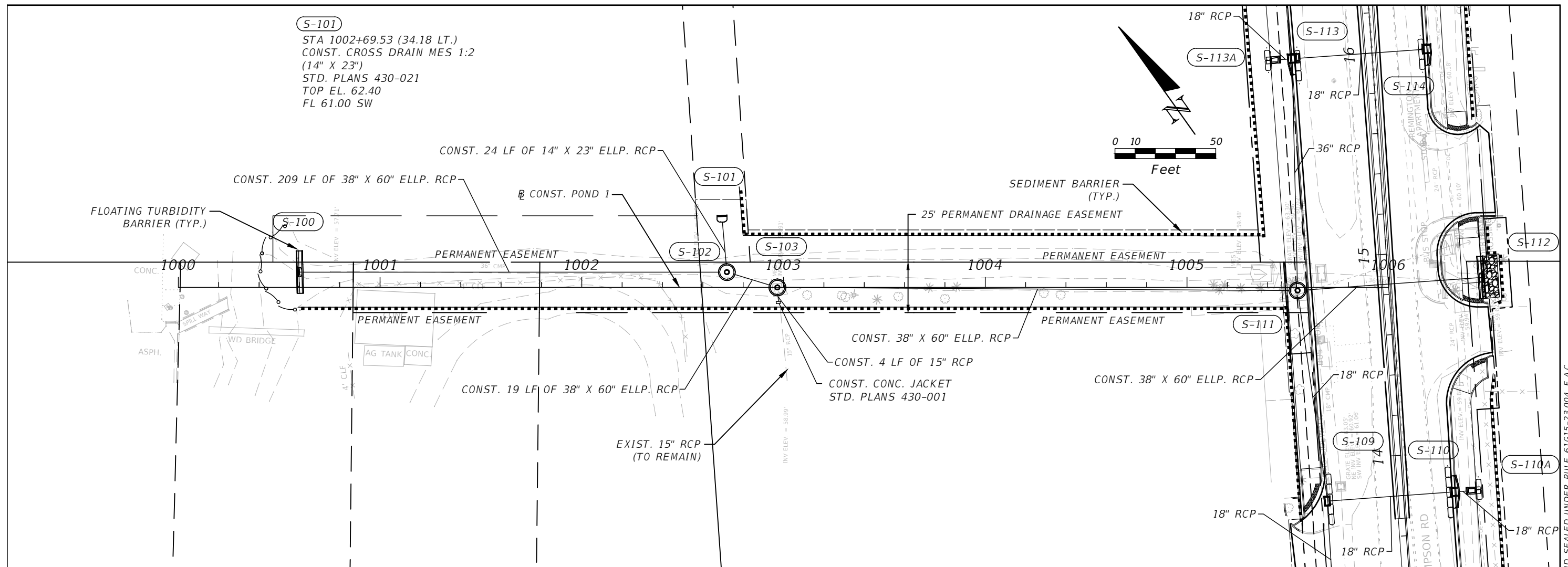


OSCEOLA COUNTY
FLORIDA

**SIMPSON RD DRAINAGE
STRUCTURE SECTIONS SHEET 28**

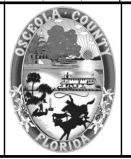
SHEET
NO.
61

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 PE # 50682

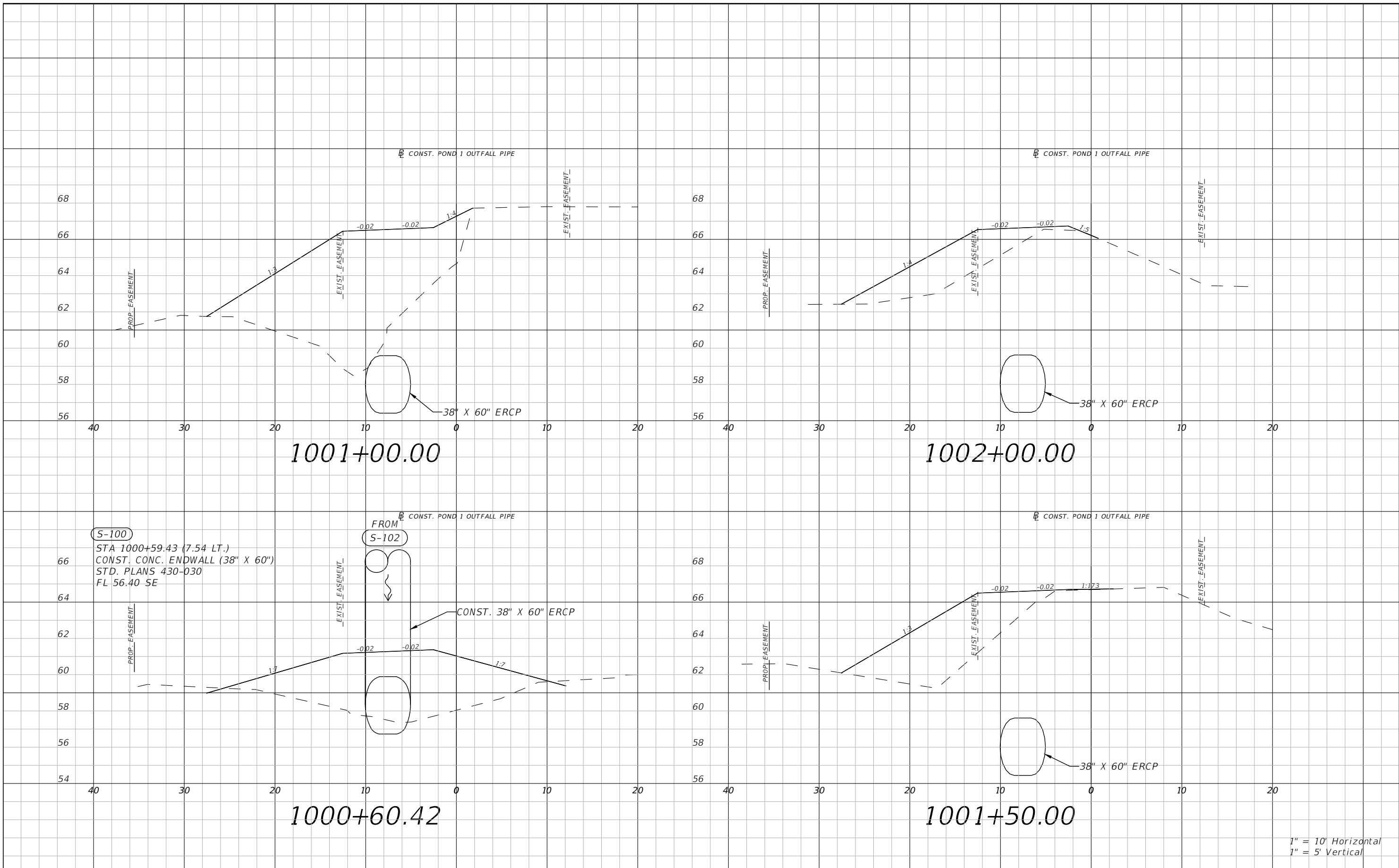


OSCEOLA COUNTY
 FLORIDA

**POND 1 OUTFALL PIPE
 PLAN AND PROFILE**

SHEET
 NO.
 62

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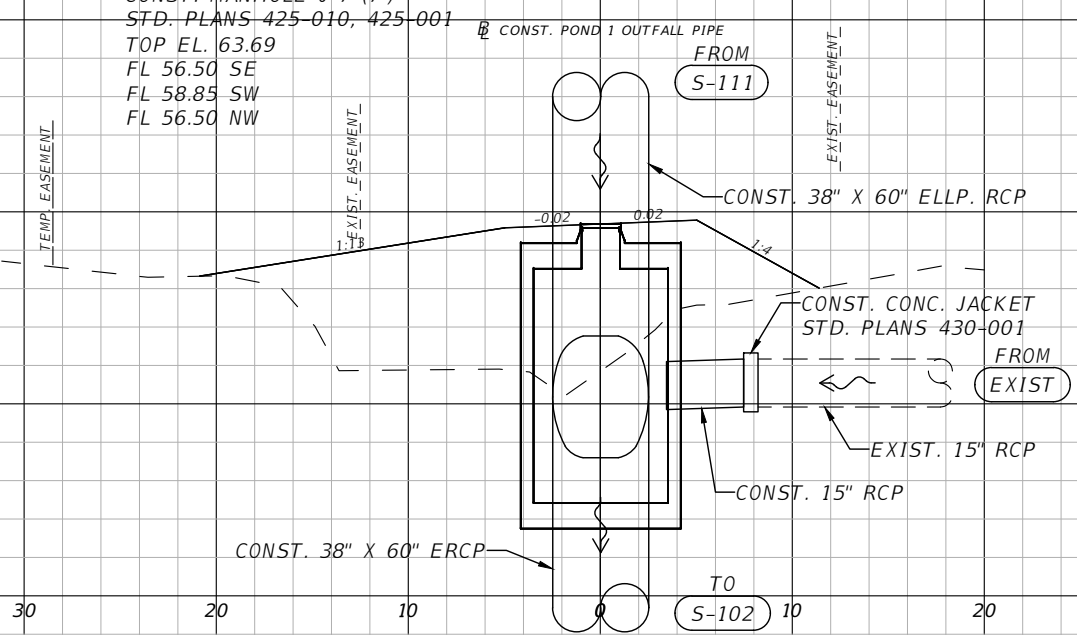
OSCEOLA COUNTY
FLORIDA

POND 1 OUTFALL PIPE CROSS
SECTIONS SHEET 1

SHEET
NO.
63

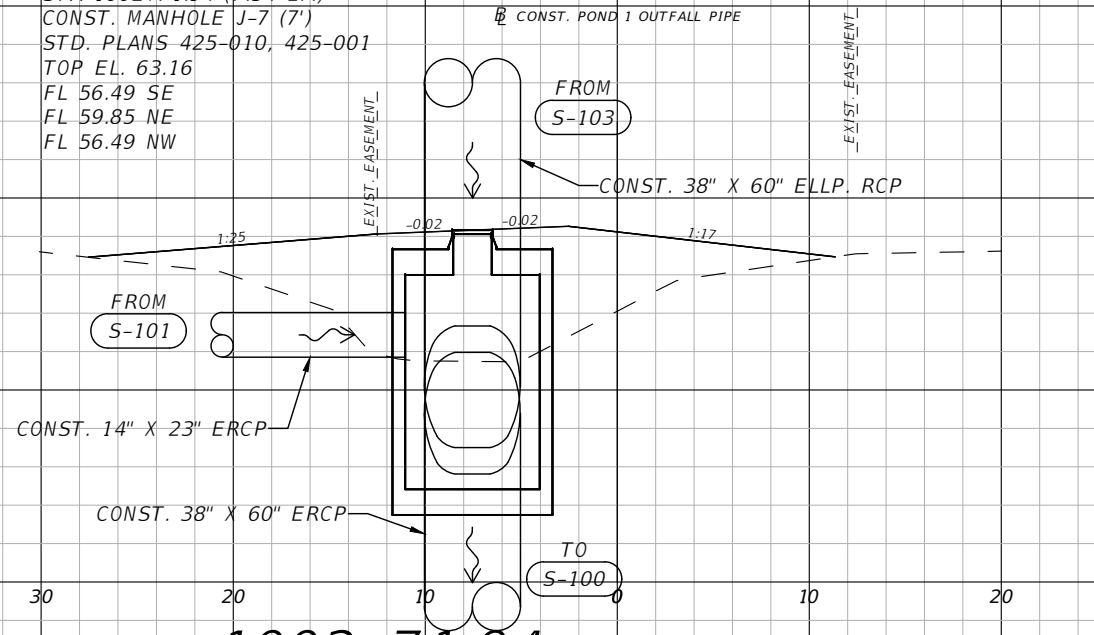
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S-103
 STA 1002+97.00 (0.03 RT.)
 CONST. MANHOLE J-7 (7')
 STD. PLANS 425-010, 425-001
 TOP EL. 63.69
 FL 56.50 SE
 FL 58.85 SW
 FL 56.50 NW



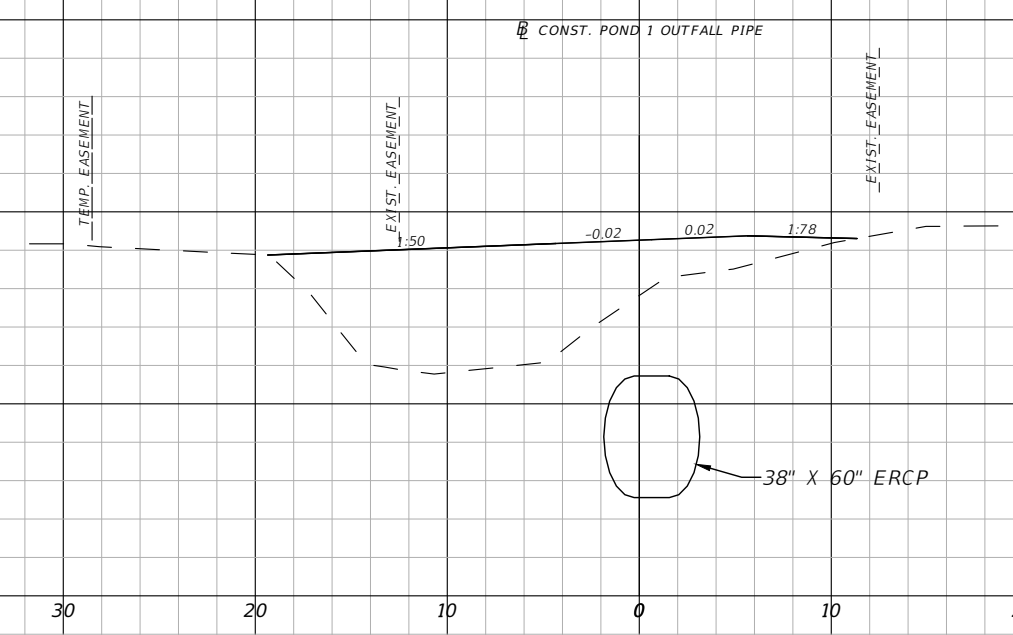
1002+97.00

S-102
 STA 1002+71.94 (7.54 LT.)
 CONST. MANHOLE J-7 (7')
 STD. PLANS 425-010, 425-001
 TOP EL. 63.16
 FL 56.49 SE
 FL 59.85 NE
 FL 56.49 NW



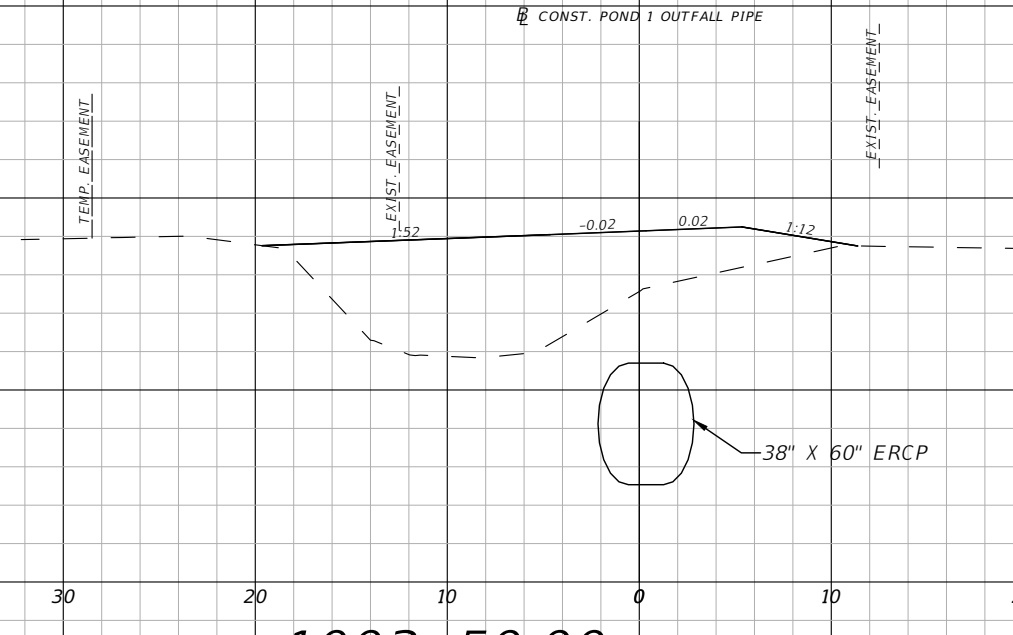
1002+71.94

CONST. POND 1 OUTFALL PIPE



1004+00.00

CONST. POND 1 OUTFALL PIPE



1003+50.00

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

REVISIONS			
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 PE # 50682

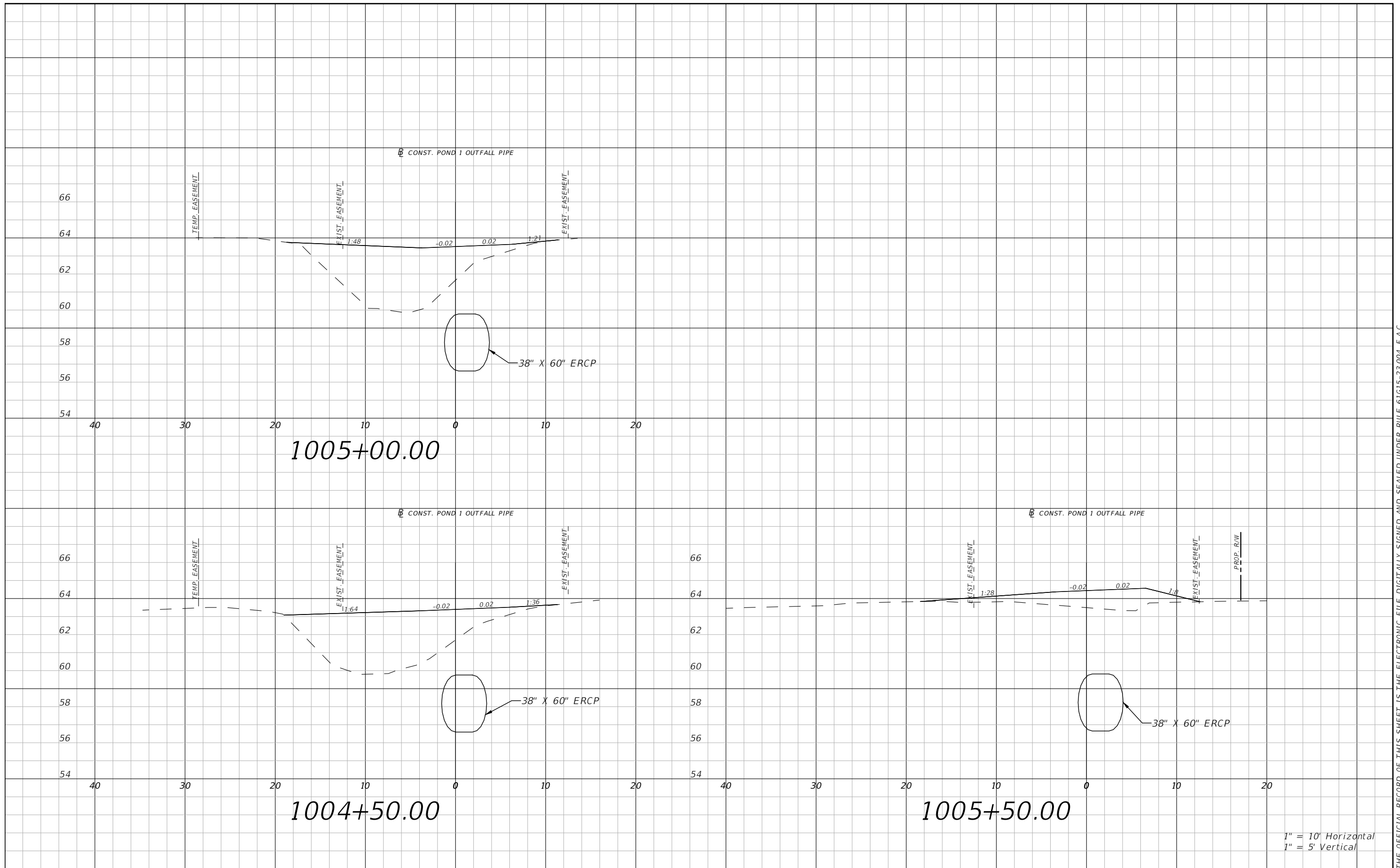


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POND 1 OUTFALL PIPE CROSS
 SECTIONS SHEET 2

SHEET
 NO.
 64

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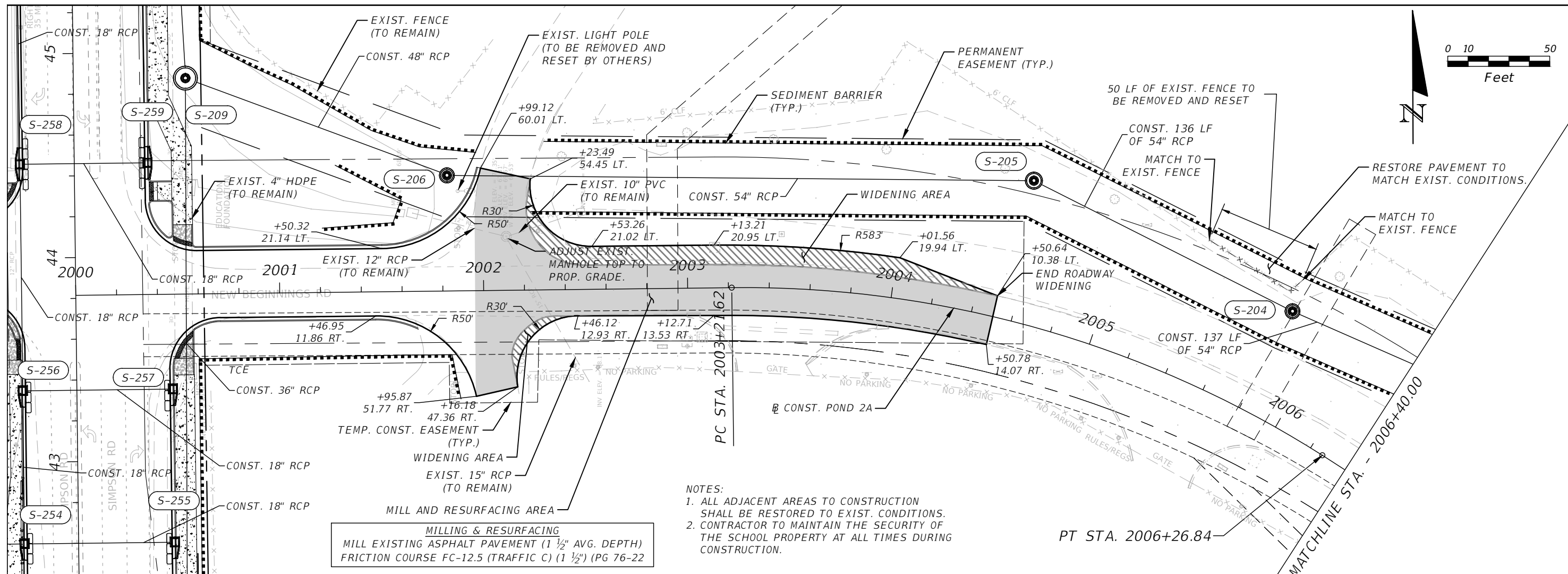


OSCEOLA COUNTY
FLORIDA

POND 1 OUTFALL PIPE CROSS
SECTIONS SHEET 3

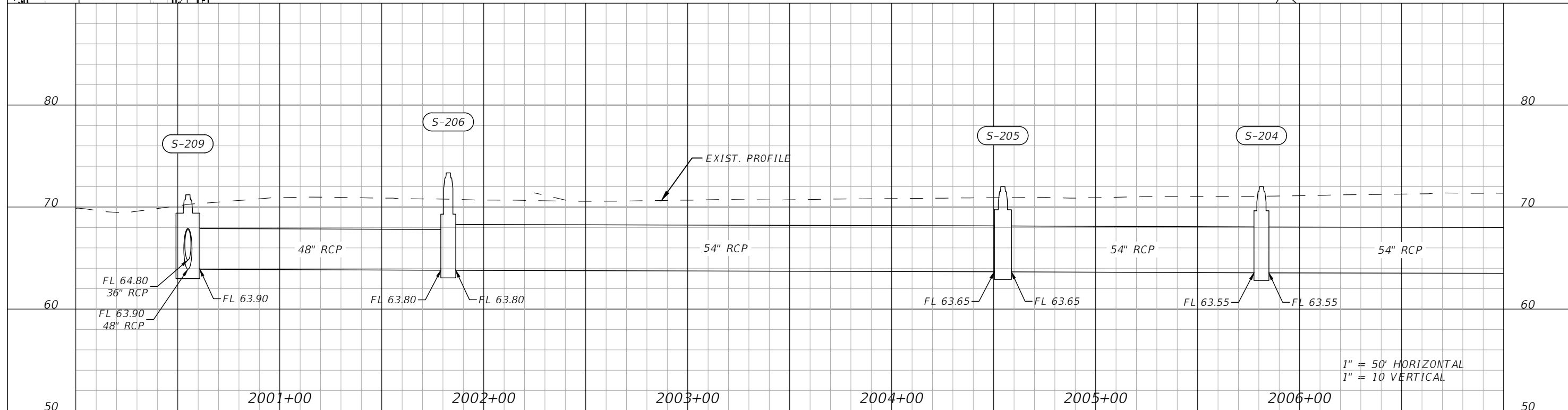
SHEET
NO.
65

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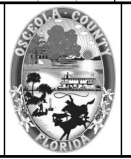
MILLING & RESURFACING
 MILL EXISTING ASPHALT PAVEMENT (1 1/2" AVG. DEPTH)
 FRICTION COURSE FC-12.5 (TRAFFIC C) (1 1/2") (PG 76-22)

- NOTES:**
1. ALL ADJACENT AREAS TO CONSTRUCTION SHALL BE RESTORED TO EXIST. CONDITIONS.
 2. CONTRACTOR TO MAINTAIN THE SECURITY OF THE SCHOOL PROPERTY AT ALL TIMES DURING CONSTRUCTION.



1" = 50' HORIZONTAL
 1" = 10' VERTICAL

REVISIONS			
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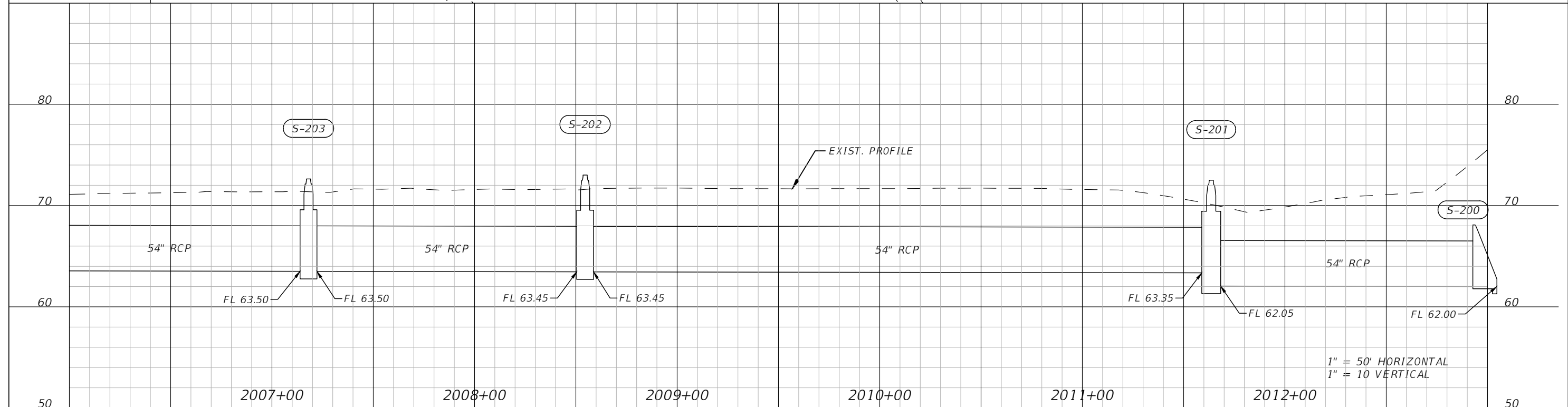
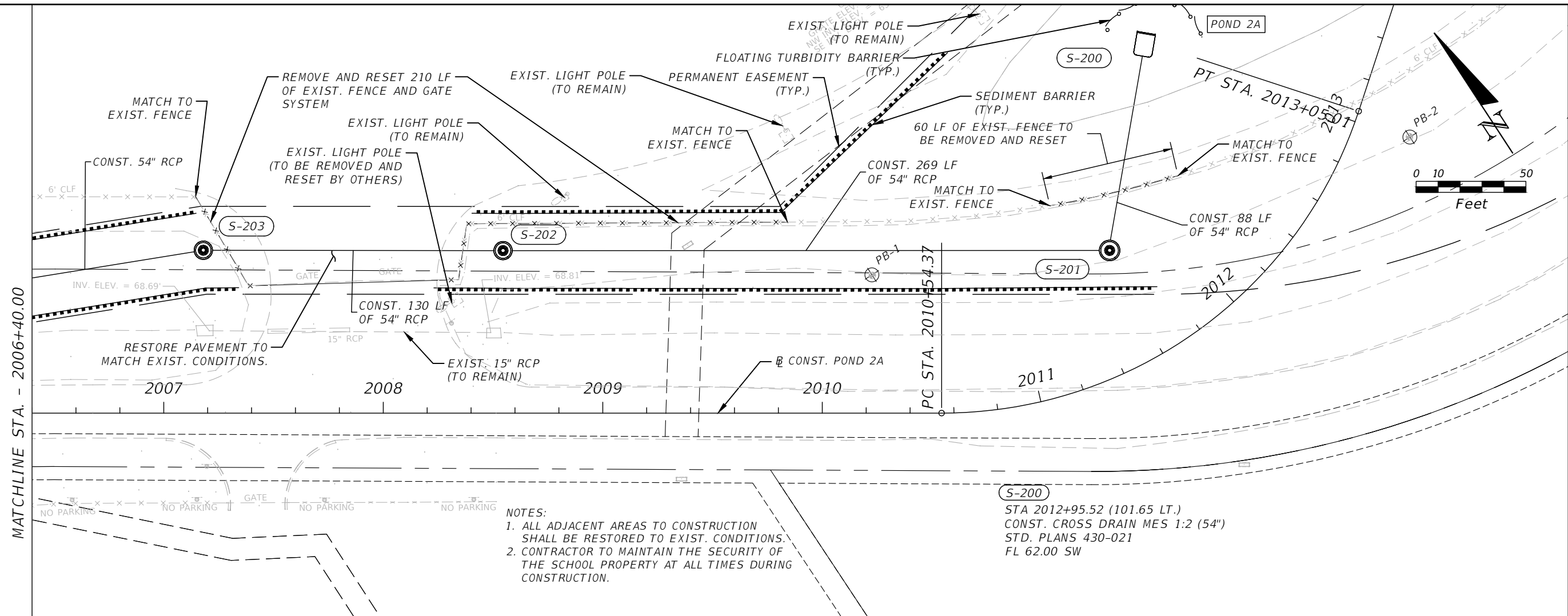


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**POND 2A OUTFALL PIPE PLAN
 AND PROFILE SHEET 1**

SHEET NO.
 66

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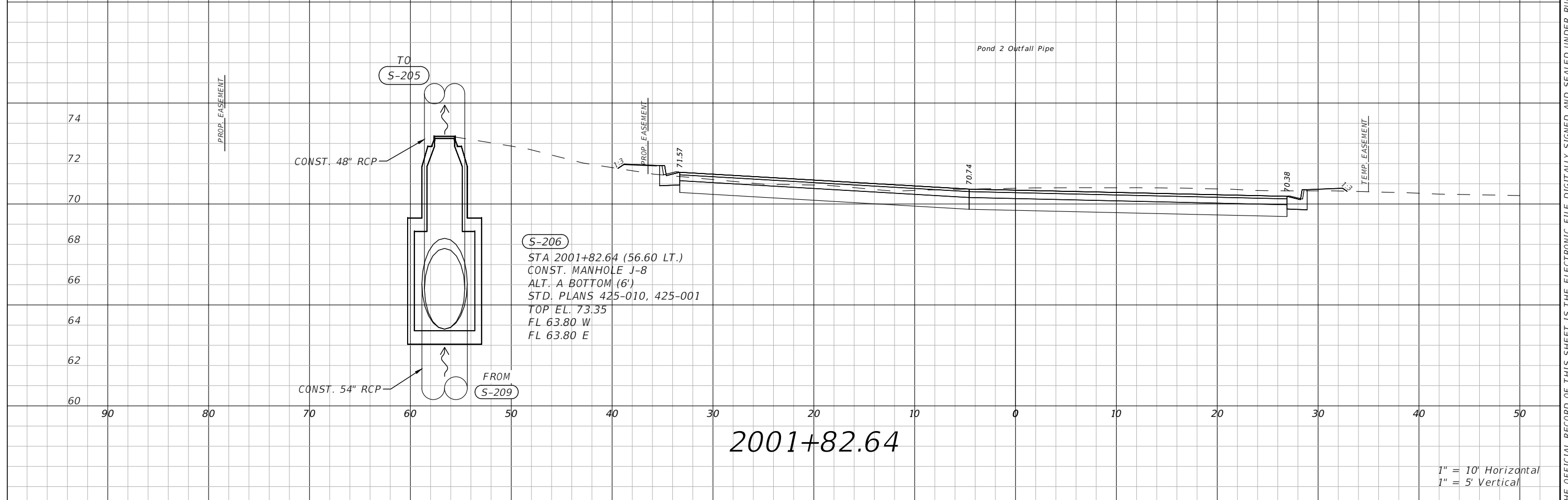
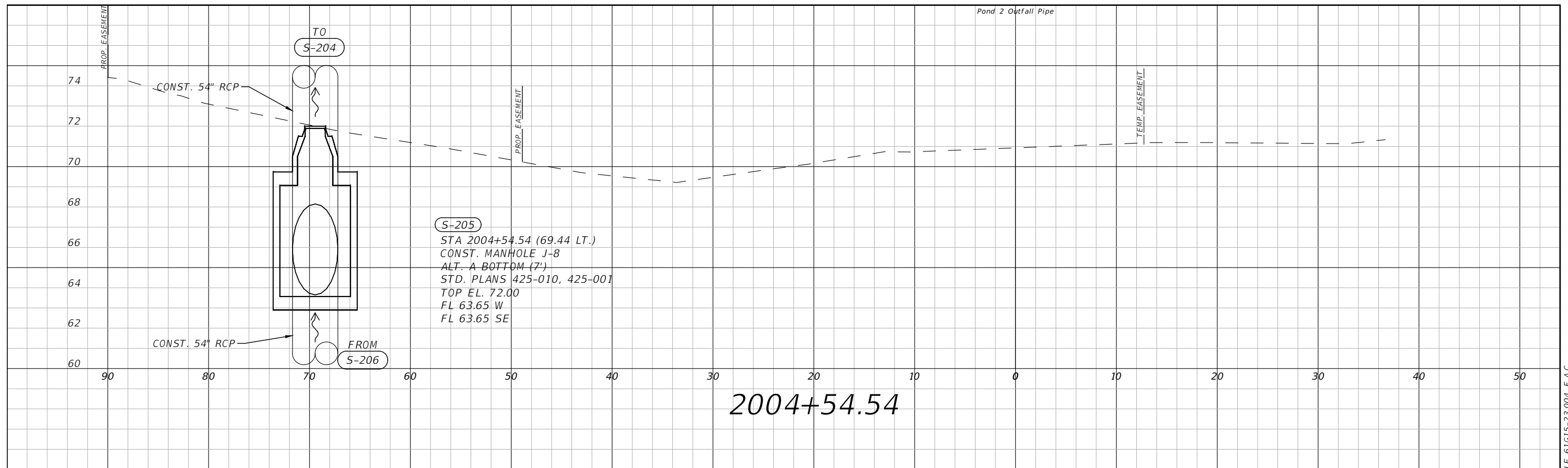


OSCEOLA COUNTY
FLORIDA

POND 2A OUTFALL PIPE PLAN
AND PROFILE SHEET 2

SHEET NO.
67

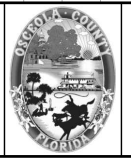
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1" = 10' Horizontal
 1" = 5' Vertical

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 Certificate of Authorization # 3932
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 PE # 63437

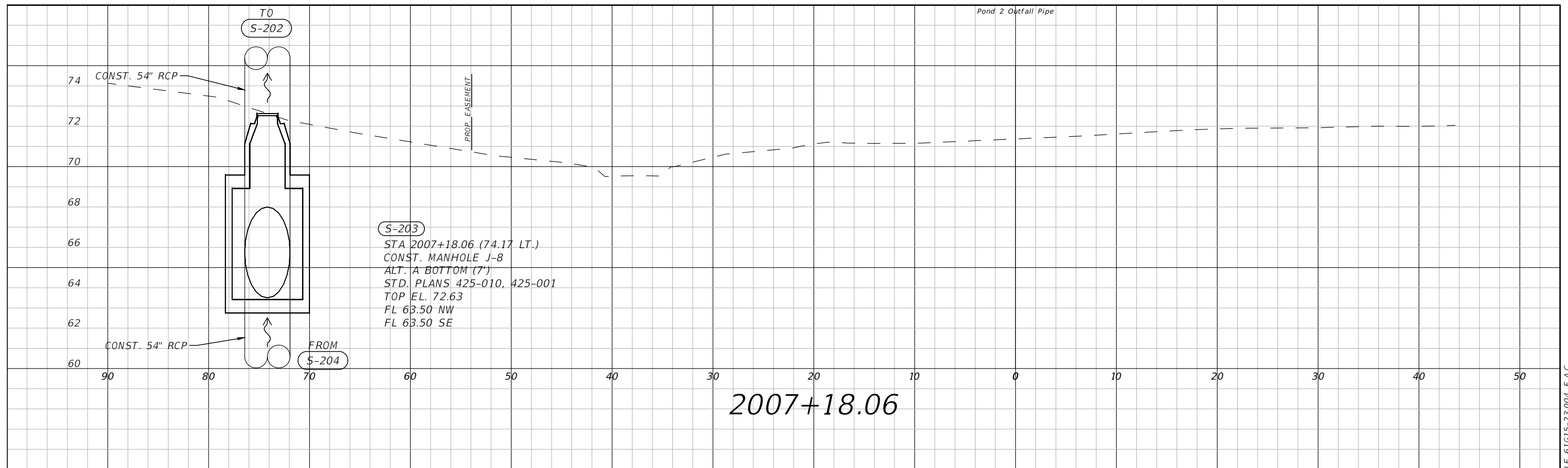


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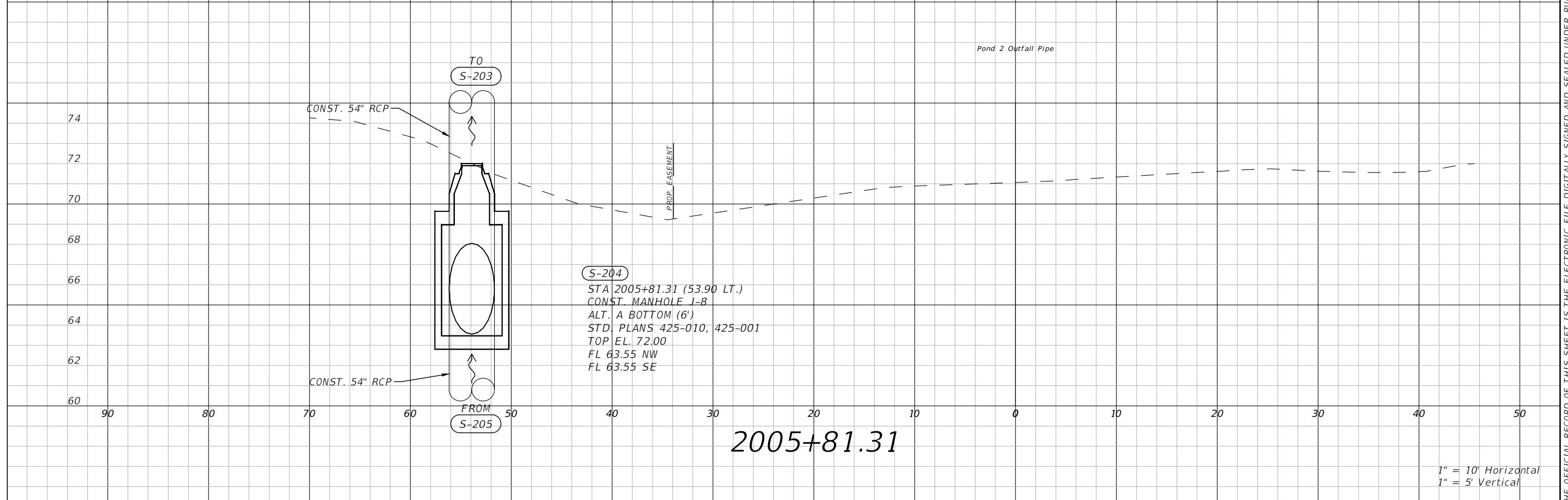
POND 2A OUTFALL PIPE CROSS
 SECTIONS SHEET 1

SHEET
 NO.
 68

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2007+18.06



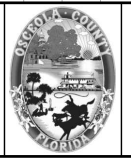
2005+81.31

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

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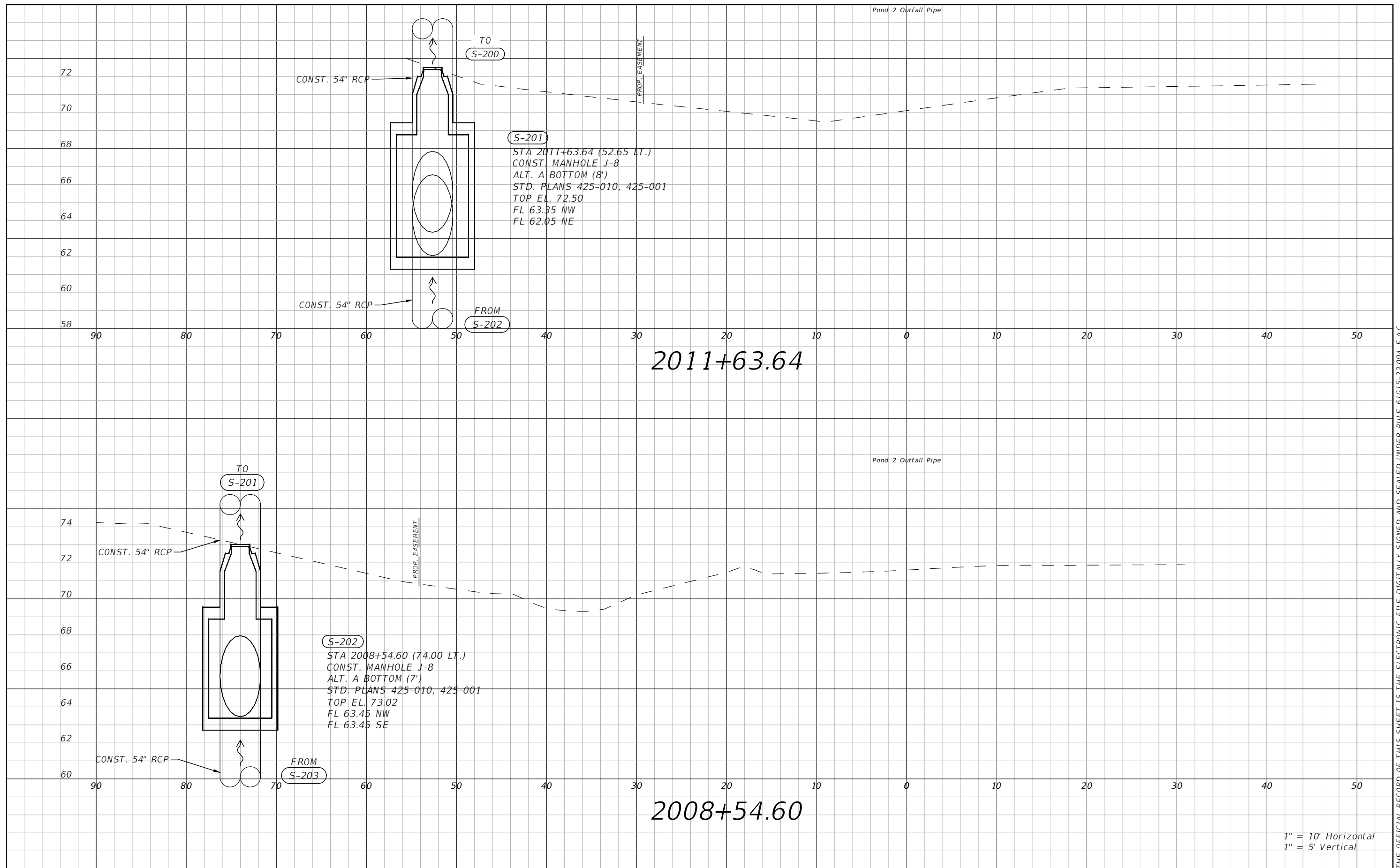


OSCEOLA COUNTY
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POND 2A OUTFALL PIPE CROSS
SECTIONS SHEET 2

SHEET
NO.
69

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 Orlando, FL 32801 (407)839-4006
 Certificate of Authorization # 3932
 Mark F. Bertocini, P.E.
 PE # 63437

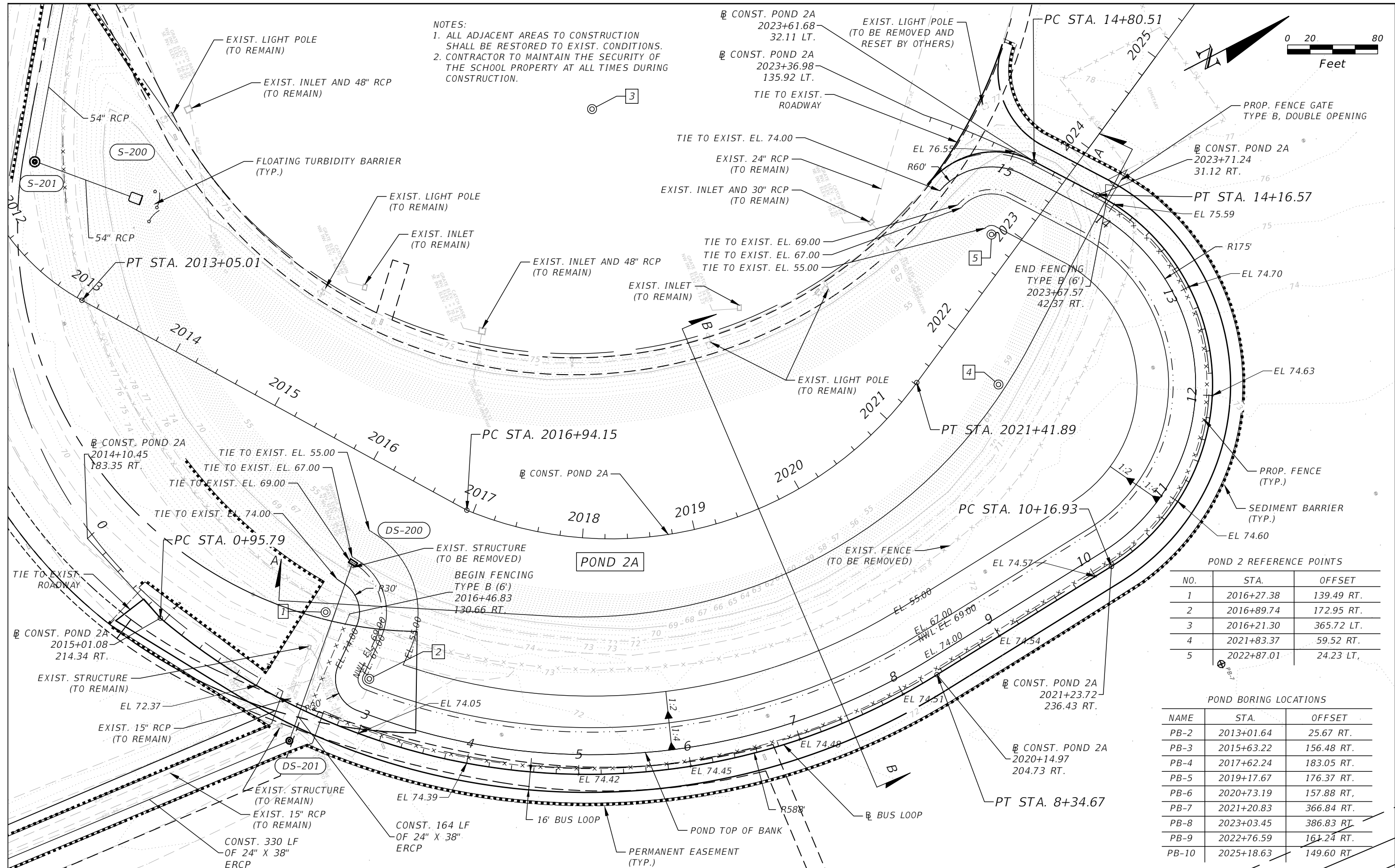
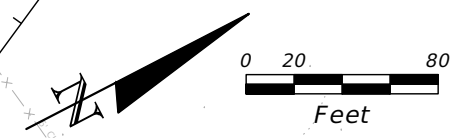


OSCEOLA COUNTY
FLORIDA

POND 2A OUTFALL PIPE CROSS
SECTIONS SHEET 3

SHEET NO.
70

NOTES:
 1. ALL ADJACENT AREAS TO CONSTRUCTION SHALL BE RESTORED TO EXIST. CONDITIONS.
 2. CONTRACTOR TO MAINTAIN THE SECURITY OF THE SCHOOL PROPERTY AT ALL TIMES DURING CONSTRUCTION.



POND 2 REFERENCE POINTS

NO.	STA.	OFFSET
1	2016+27.38	139.49 RT.
2	2016+89.74	172.95 RT.
3	2016+21.30	365.72 LT.
4	2021+83.37	59.52 RT.
5	2022+87.01	24.23 LT.

POND BORING LOCATIONS

NAME	STA.	OFFSET
PB-2	2013+01.64	25.67 RT.
PB-3	2015+63.22	156.48 RT.
PB-4	2017+62.24	183.05 RT.
PB-5	2019+17.67	176.37 RT.
PB-6	2020+73.19	157.88 RT.
PB-7	2021+20.83	366.84 RT.
PB-8	2023+03.45	386.83 RT.
PB-9	2022+76.59	161.24 RT.
PB-10	2025+18.63	149.60 RT.

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

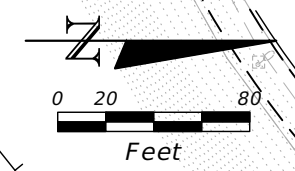


OSCEOLA COUNTY
FLORIDA

POND 2A PLAN SHEET 1

SHEET NO. 71

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DS-203

STA 2012+85.85 (817.21 RT.)
 CONST. CROSS DRAIN MES 1:2 (24" X 38")
 STD. PLANS 430-021
 FL 64.33 N

DS-204

STA 2012+83.96 (813.71 RT.)
 CONST. CROSS DRAIN MES 1:2 (15")
 STD. PLANS 430-021
 FL 61.67 N

DS-202

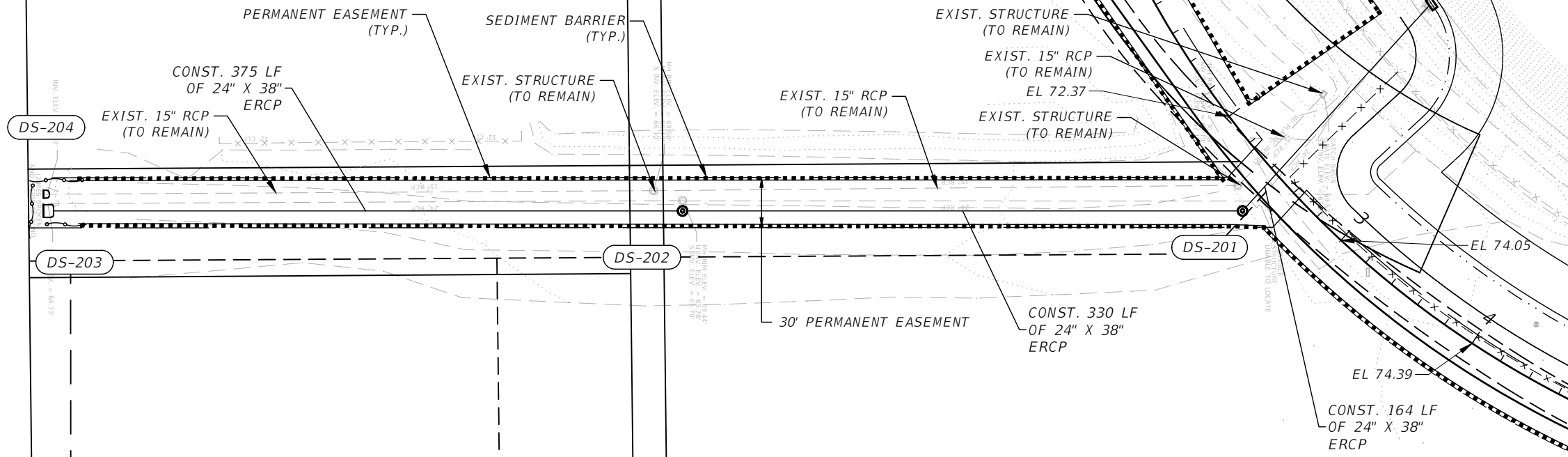
STA 2014+44.26 (516.91 RT.)
 CONST. MANHOLE J-7 (5')
 STD. PLANS 425-010, 425-001
 TOP EL. 70.33
 FL 64.75 N
 FL 64.75 S

DS-201

STA 2016+53.71 (255.12 RT.)
 CONST. MANHOLE J-7 (5')
 STD. PLANS 425-010, 425-001
 TOP EL. 70.78
 FL 65.15 NW
 FL 65.15 S

DS-200

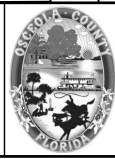
STA 2016+27.71 (89.35 RT.)
 CONST. DBI TYPE H
 (2-GRATE)
 SEE DRAINAGE STRUCTURE
 DETAIL SHEET
 STD. PLANS 425-010,
 425-001, 425-070
 TOP EL. 70.25
 FL 65.30 SE



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 PE # 50682



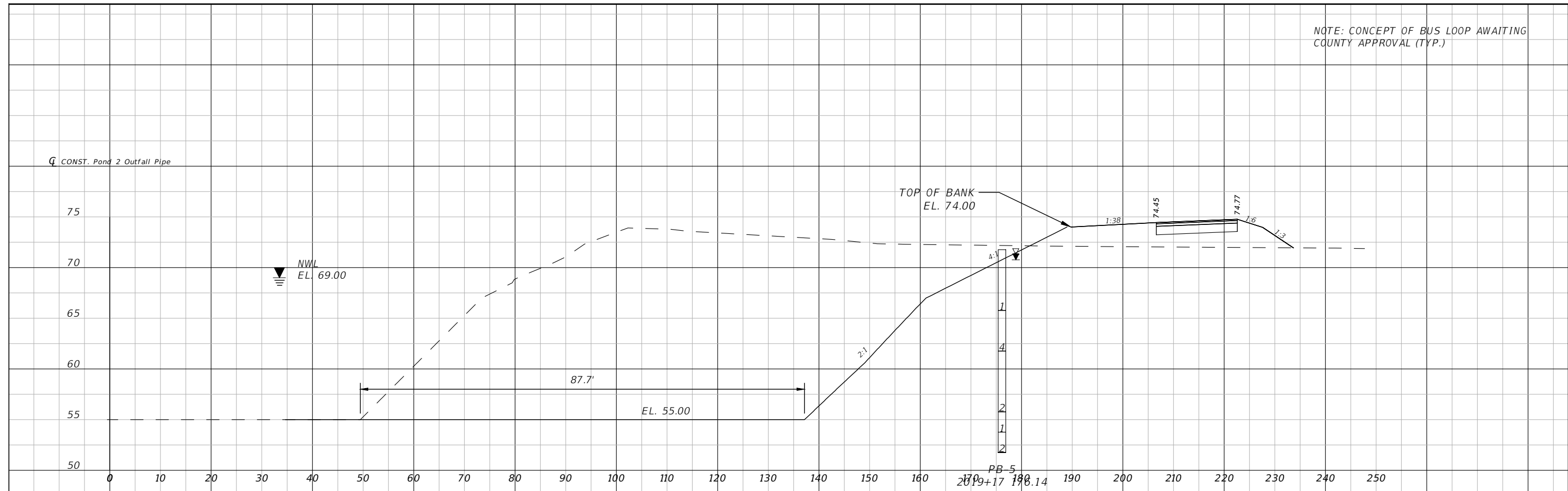
OSCEOLA COUNTY
 FLORIDA

POND 2A PLAN SHEET 2

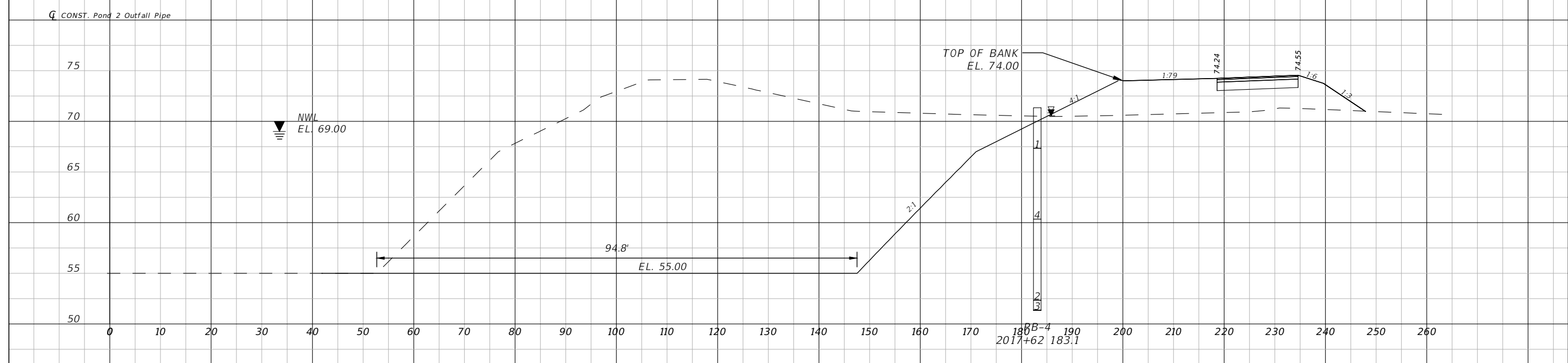
SHEET NO.
 72

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NOTE: CONCEPT OF BUS LOOP AWAITING COUNTY APPROVAL (TYP.)



2018+65.00



2017+00.00

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

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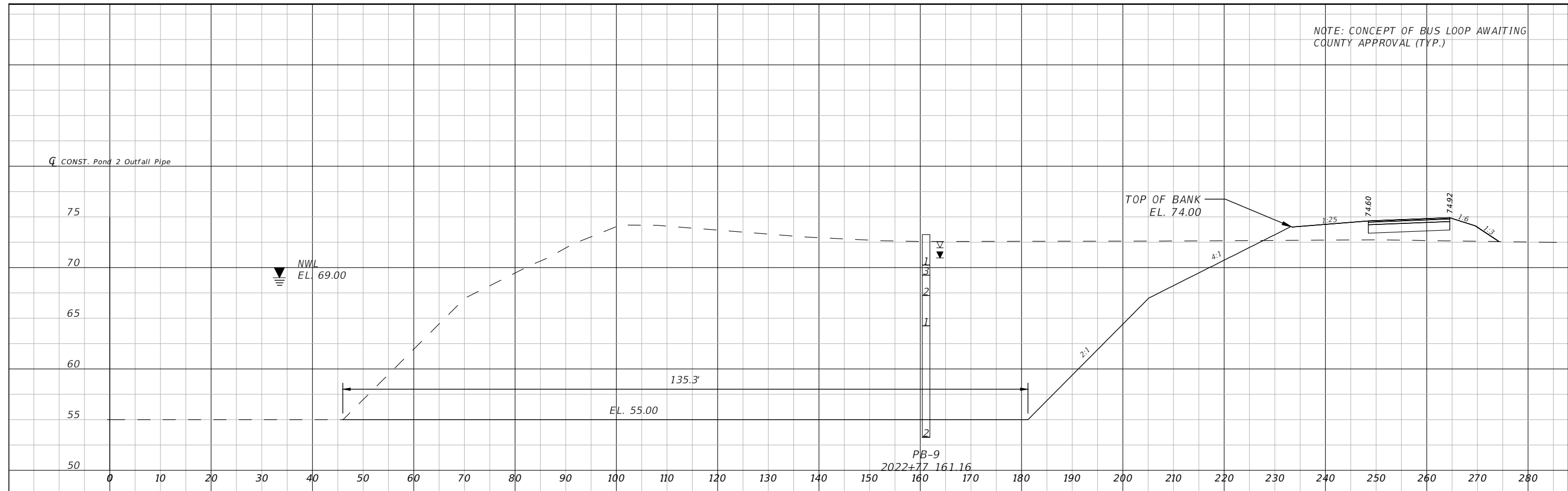
OSCEOLA COUNTY
FLORIDA

POND 2A CROSS SECTIONS
SHEET 1

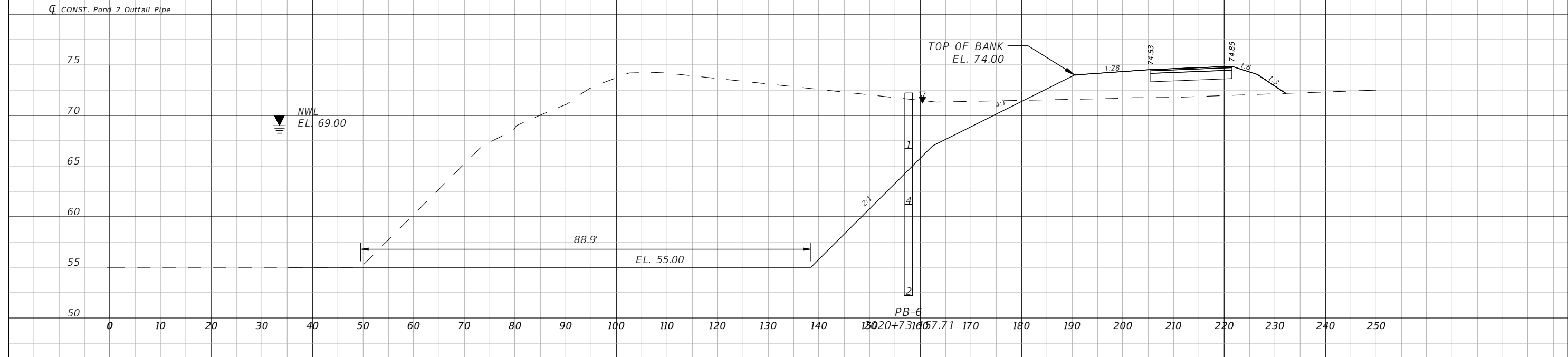
SHEET NO.
73

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NOTE: CONCEPT OF BUS LOOP AWAITING COUNTY APPROVAL (TYP.)



2022+00.00



2020+30.00

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

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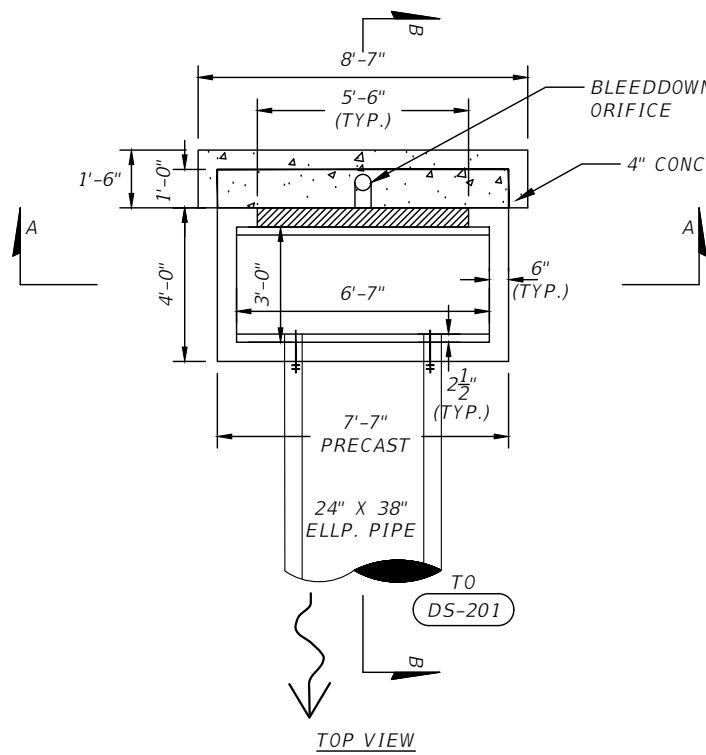


OSCEOLA COUNTY
FLORIDA

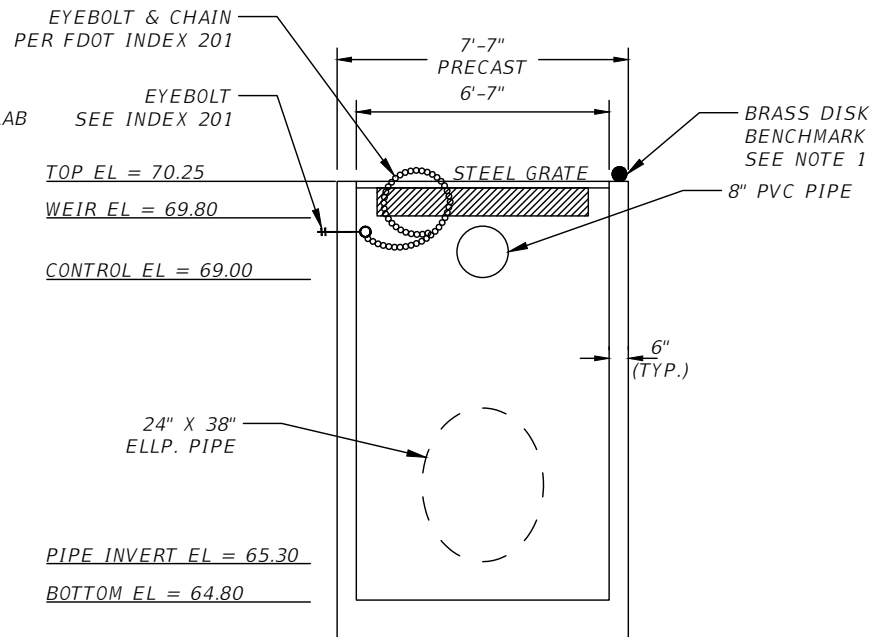
POND 2A CROSS SECTIONS
SHEET 2

SHEET NO.
74

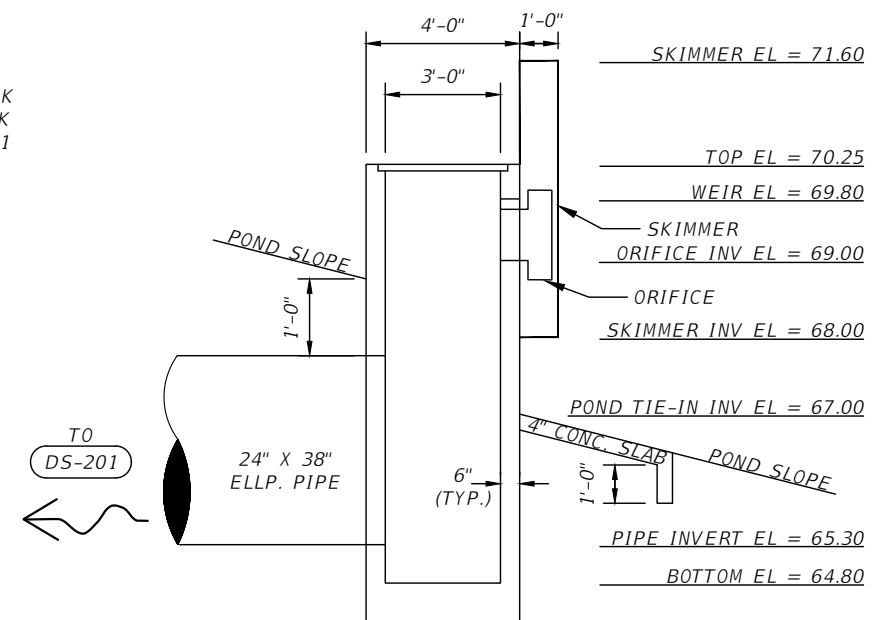
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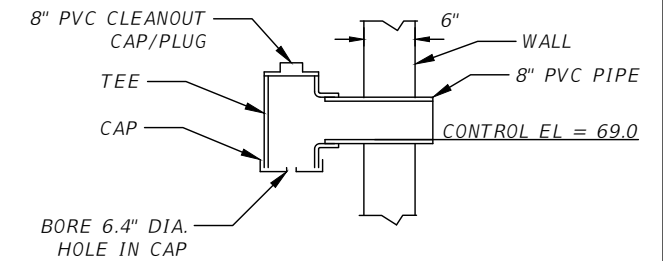
TOP VIEW



SECTION A-A



SECTION B-B



PIPE BLEEDER DETAIL
N.T.S.

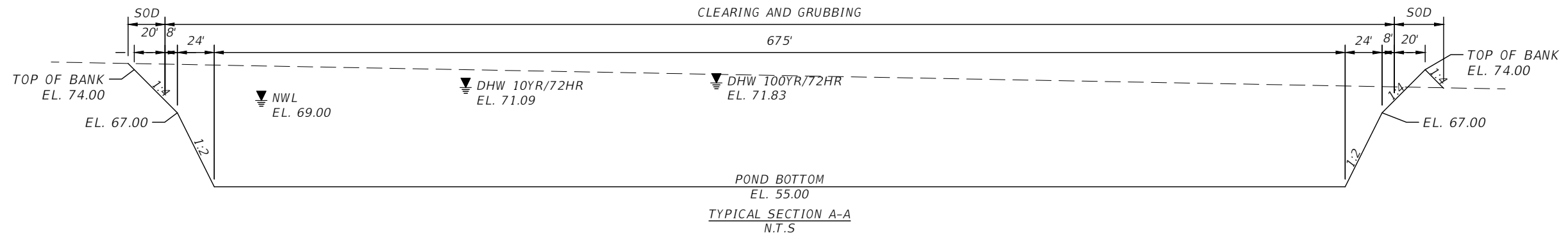
OUTFALL STRUCTURE (DS-200) - DBI TYPE H MODIFIED
N.T.S.

NOTES:

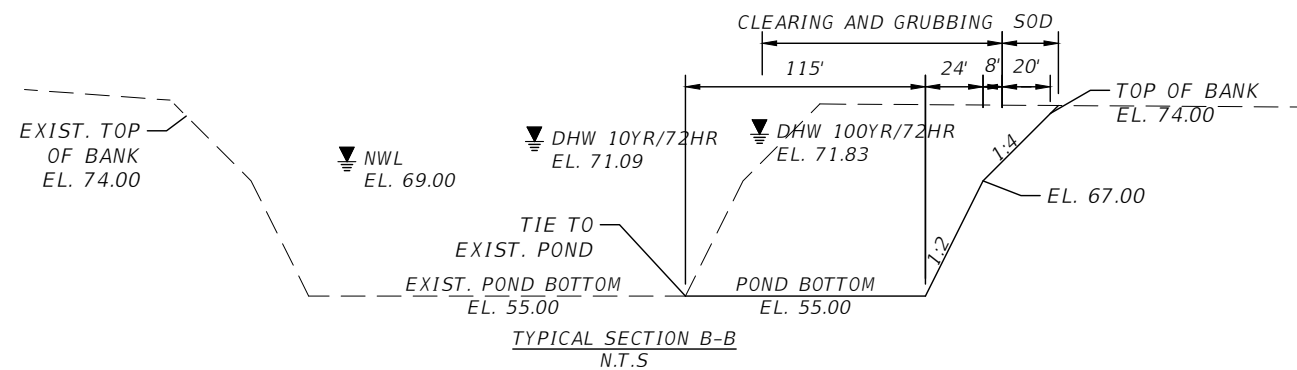
1. CONTRACTOR SHALL ACQUIRE BRASS DISK FROM THE COUNTY. BRASS DISK SHALL BE PERMANENTLY SET IN TOP OF CONTROL STRUCTURE USING NON-SHRINK GROUT. ELEVATION SHALL BE CERTIFIED BY A FLORIDA REGISTERED PROFESSIONAL SURVEYOR.

CONTACT:
OSCEOLA COUNTY ENGINEERING
1 COURTHOUSE SQUARE, SUITE 1400
KISSIMMEE, FL 34741

- ATTACH SKIMMER TO STRUCTURE PER FDOT STD. PLAN 425-070.
- THE COST OF ALL APPURTENANCES SHALL BE INCLUDED IN THE COST OF THE DBI.



TYPICAL SECTION A-A
N.T.S.



TYPICAL SECTION B-B
N.T.S.

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PE # 50682

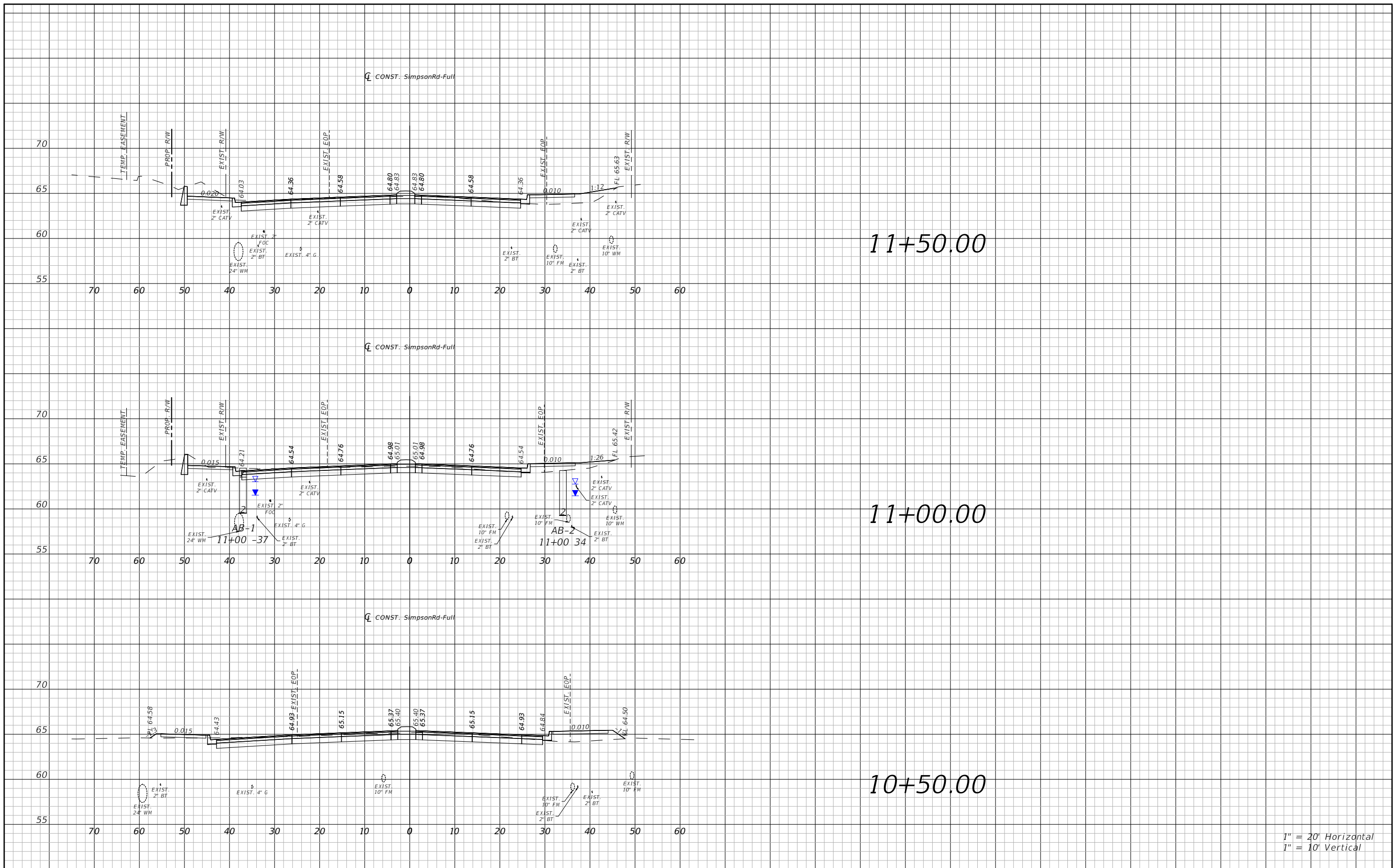


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POND 2A DETAIL SHEET

SHEET
NO.
75

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PE # 63437

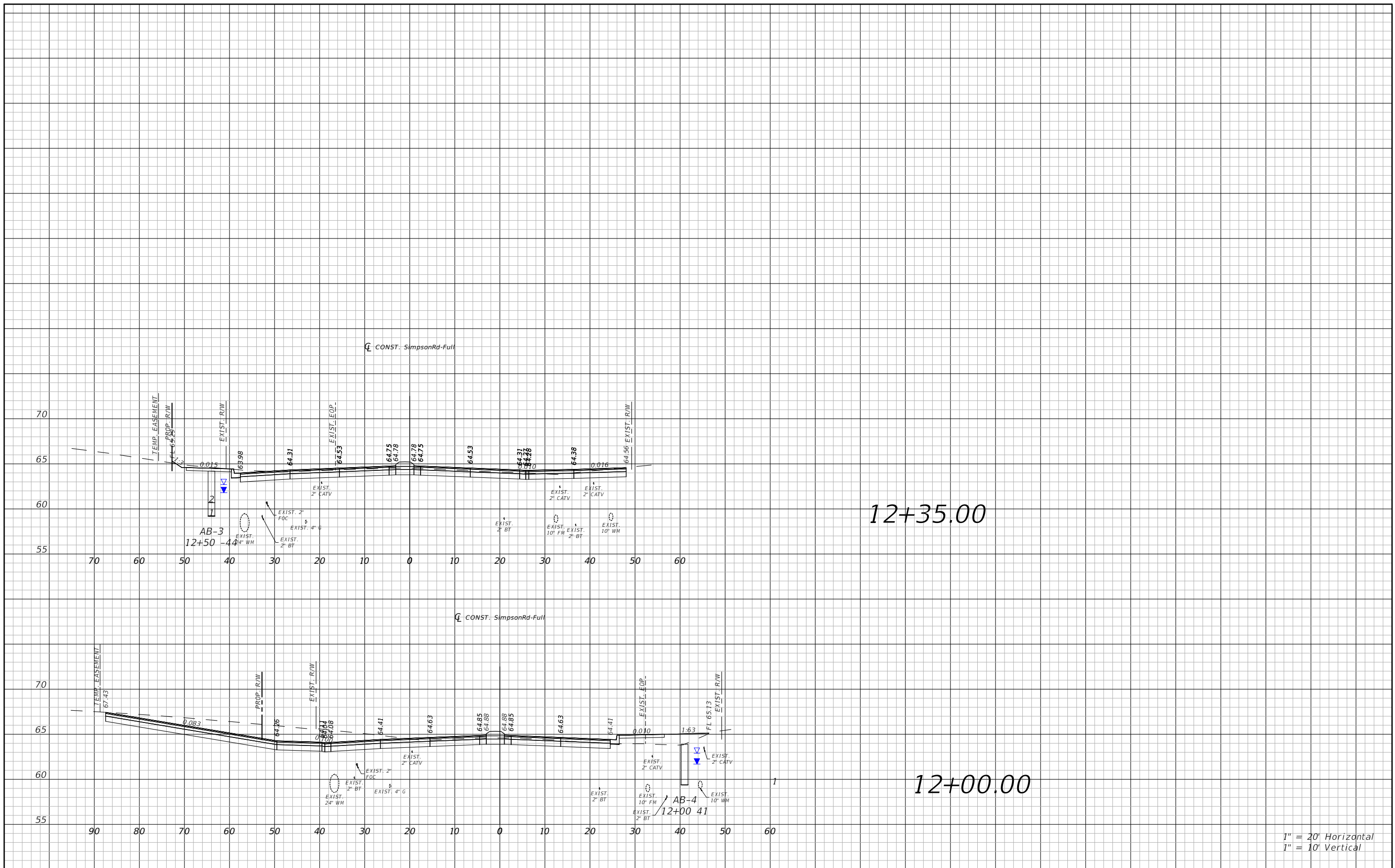


OSCEOLA COUNTY
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SIMPSON RD CROSS SECTIONS
SHEET 1

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76

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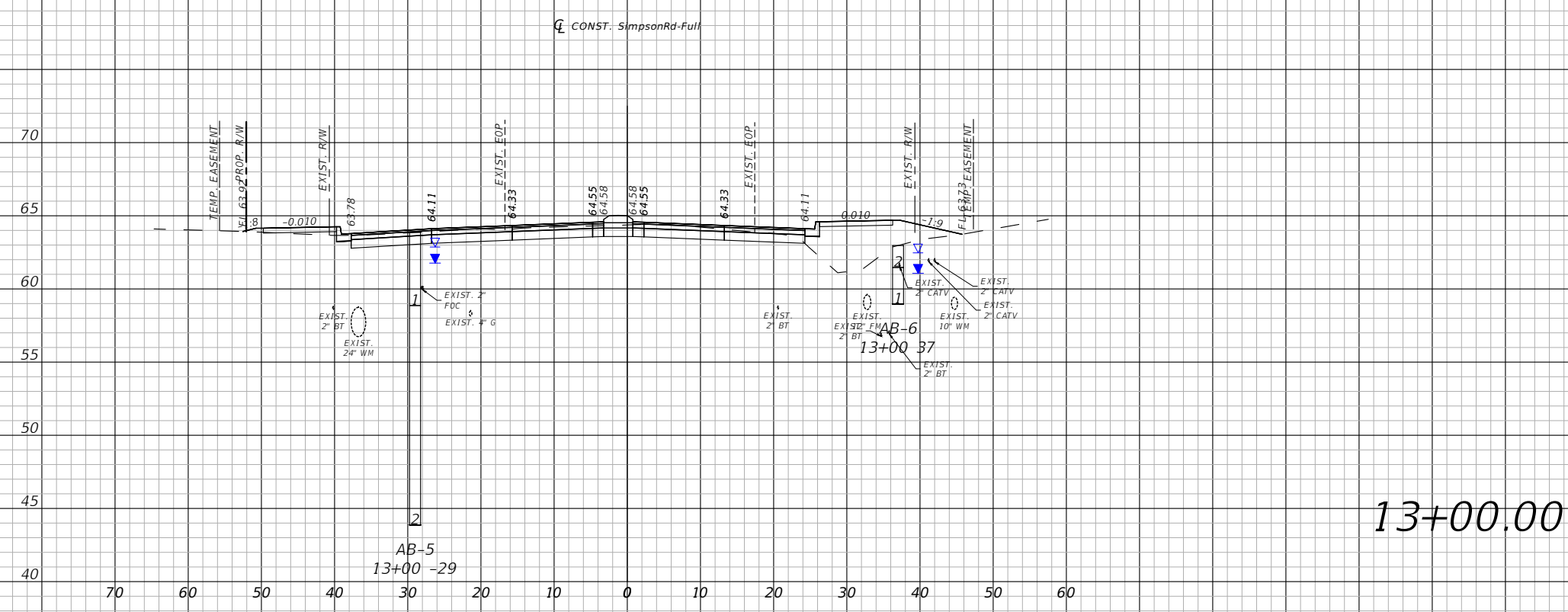
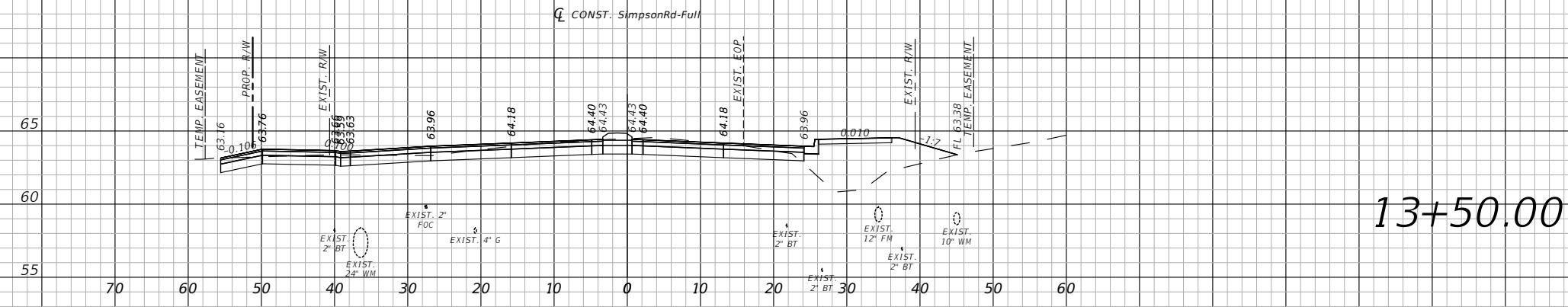
OSCEOLA COUNTY
FLORIDA

SIMPSON RD CROSS SECTIONS
SHEET 2

SHEET NO.
77


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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



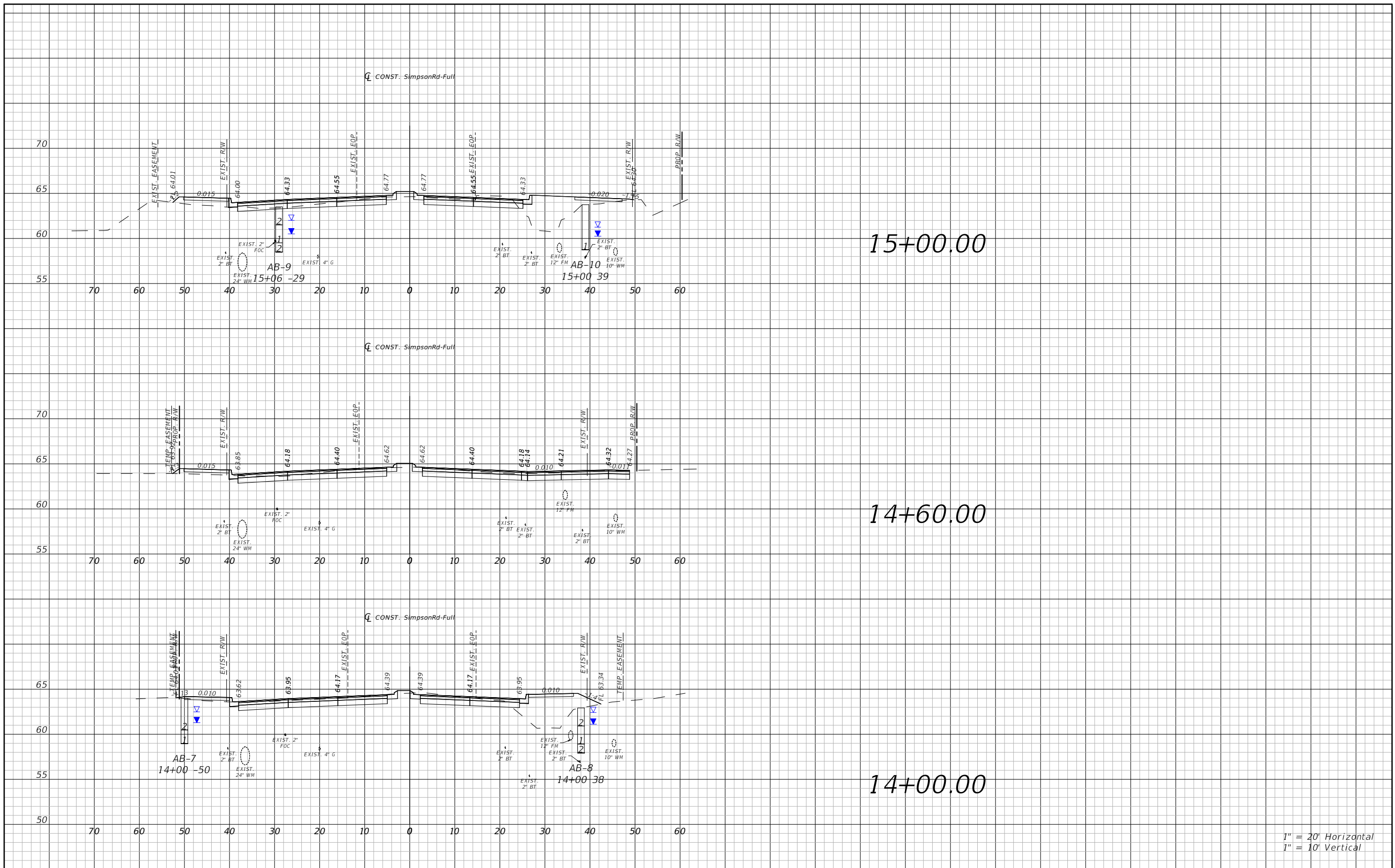
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OSCEOLA COUNTY
FLORIDA


SIMPSON RD CROSS SECTIONS
SHEET 3

SHEET NO.
78



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

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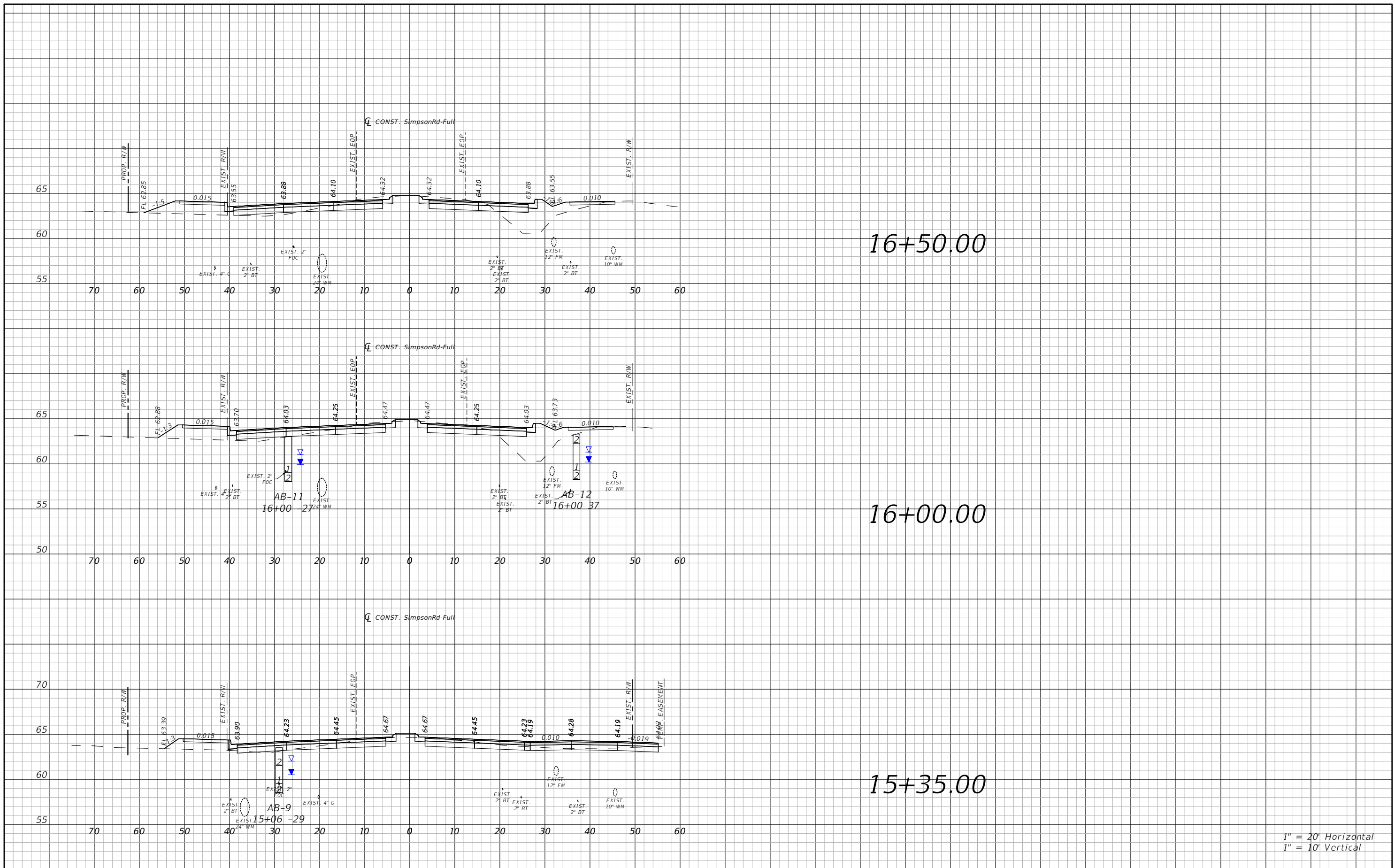


OSCEOLA COUNTY
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SIMPSON RD CROSS SECTIONS
SHEET 4

SHEET NO.
79

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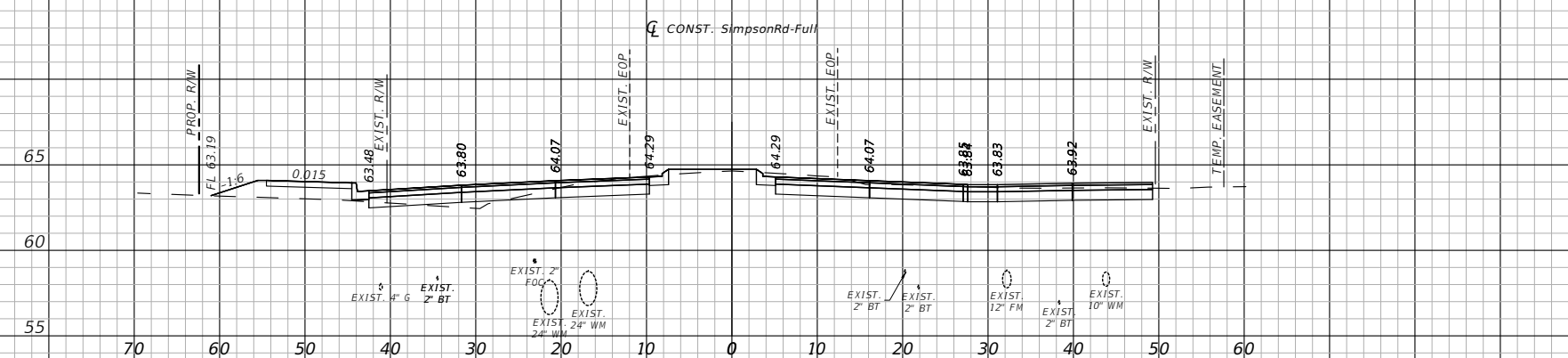
OSCEOLA COUNTY
FLORIDA

SIMPSON RD CROSS SECTIONS
SHEET 5

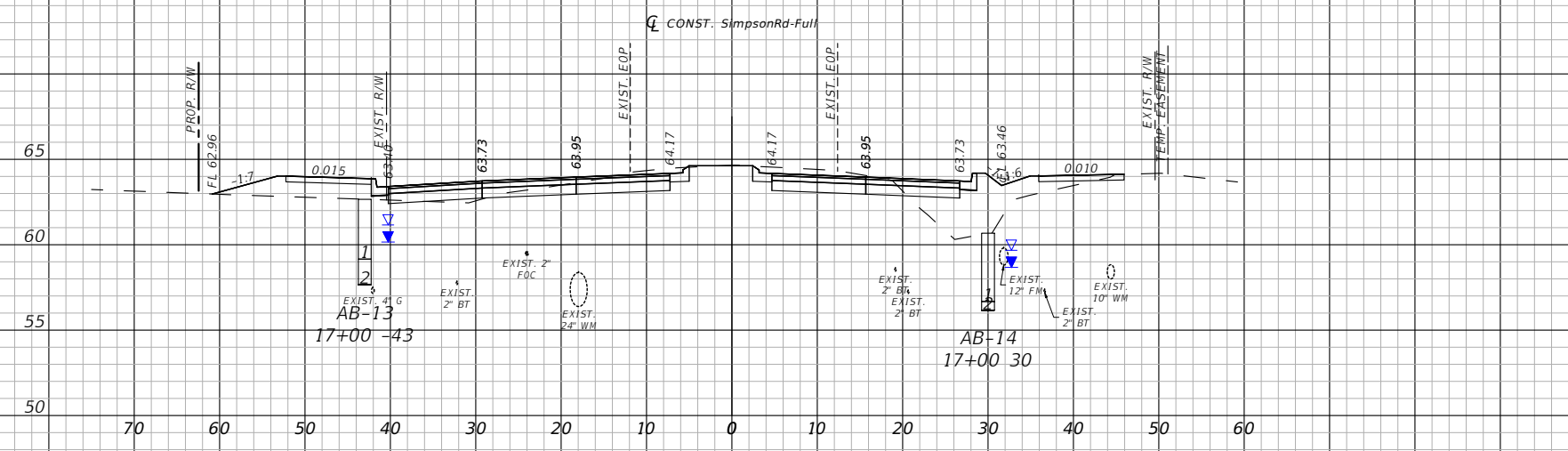
SHEET NO.
80

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17+60.00



17+00.00

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

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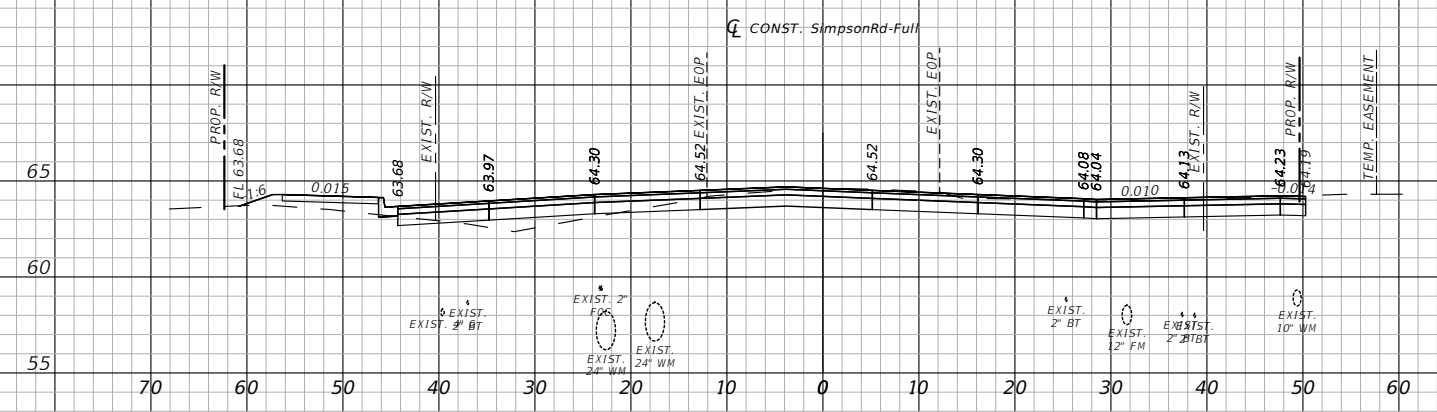


OSCEOLA COUNTY
FLORIDA

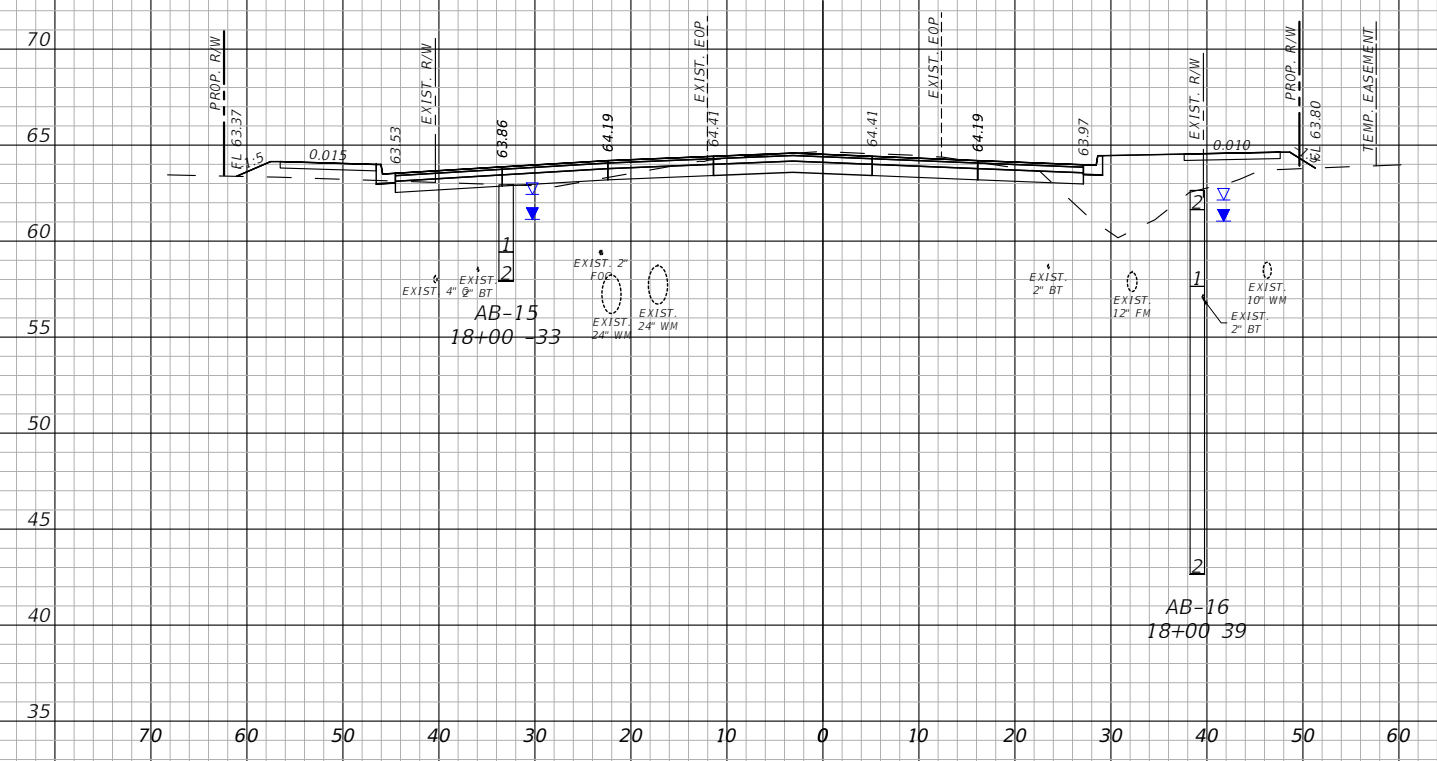
SIMPSON RD CROSS SECTIONS
SHEET 6

SHEET NO.
81

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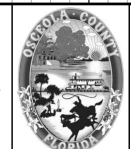


18+35.00

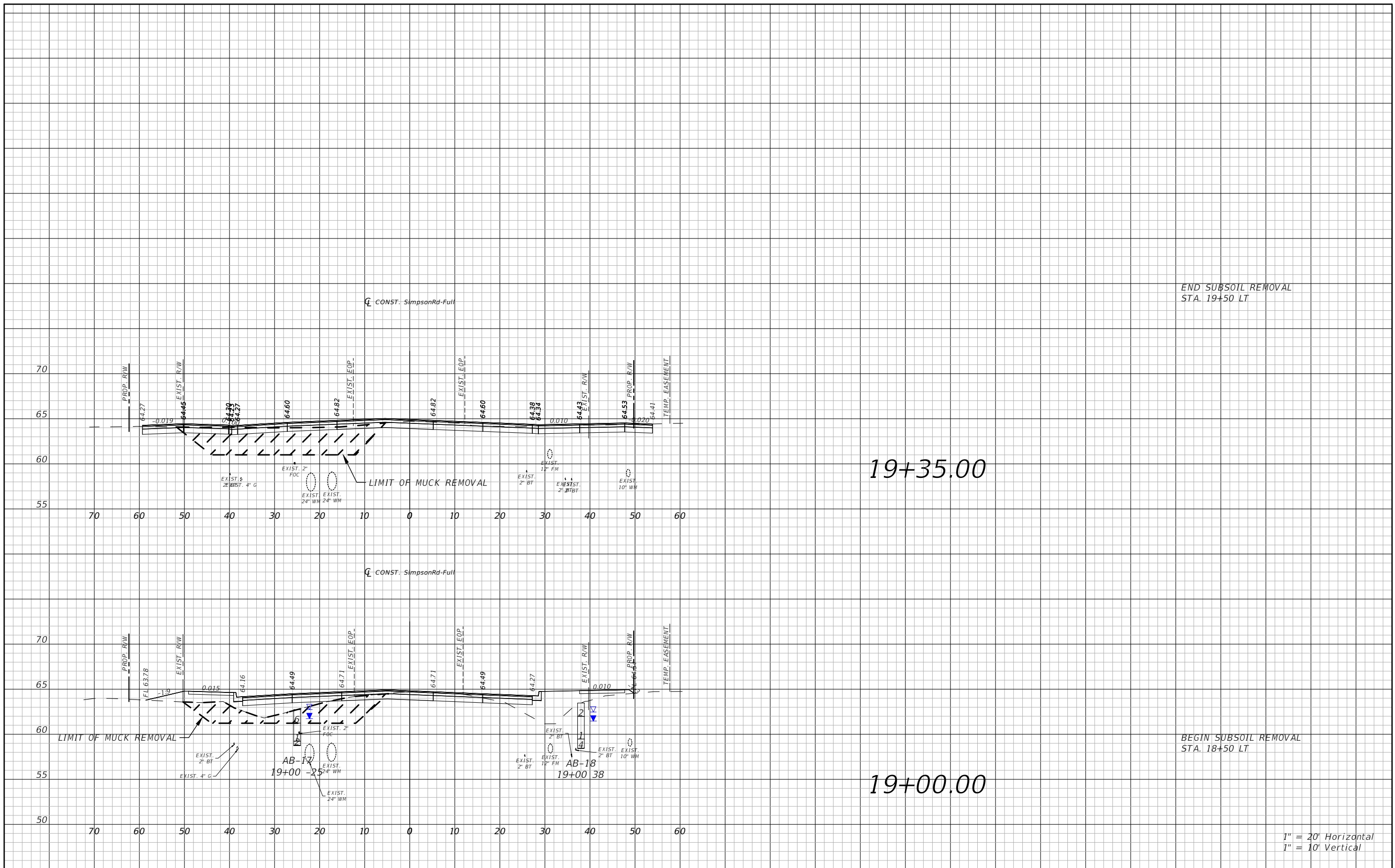


18+00.00

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

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DATE	DESCRIPTION	DATE	DESCRIPTION					

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1" = 10' Vertical

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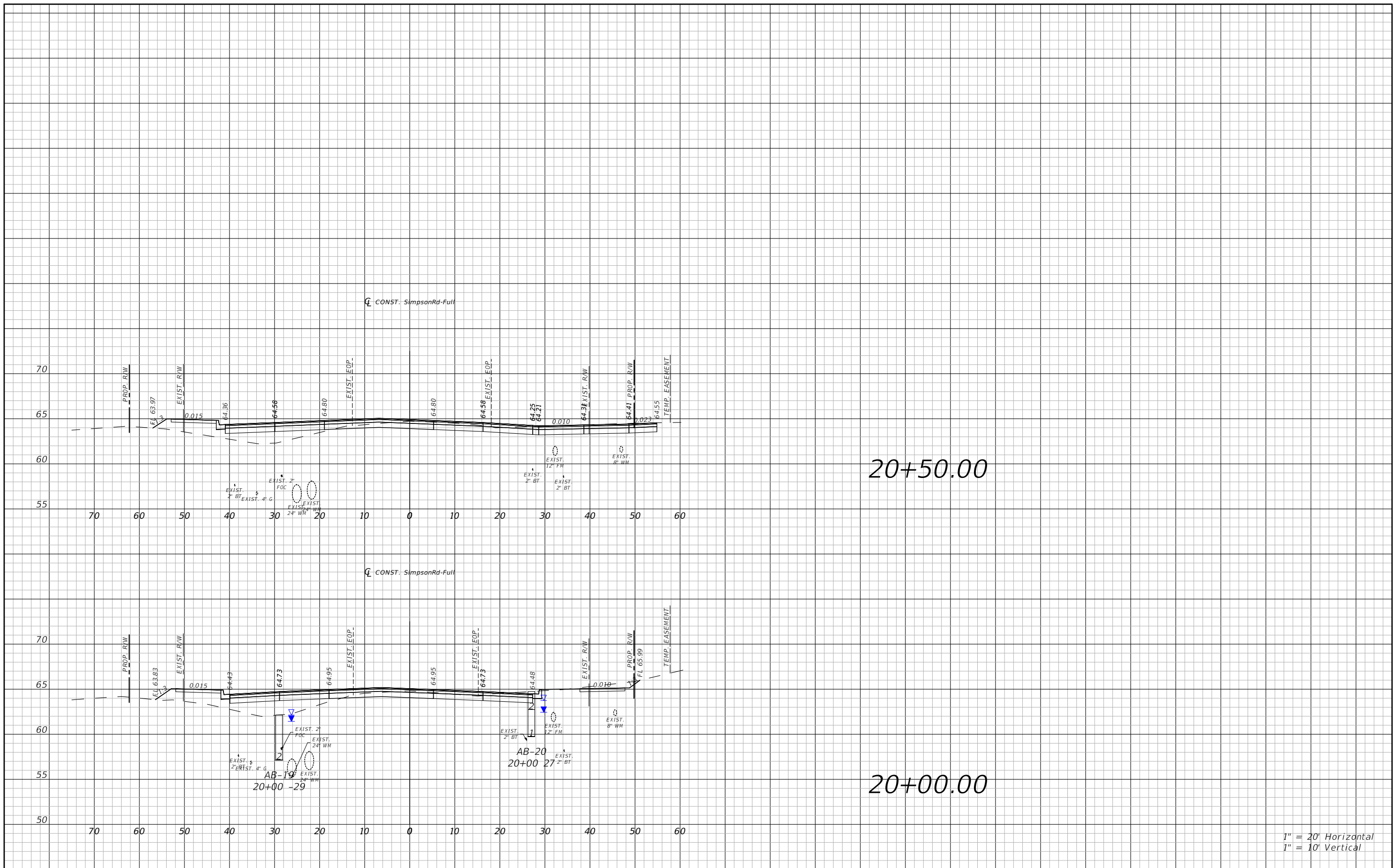


OSCEOLA COUNTY
FLORIDA

**SIMPSON RD CROSS SECTIONS
SHEET 8**

SHEET NO.
83

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1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



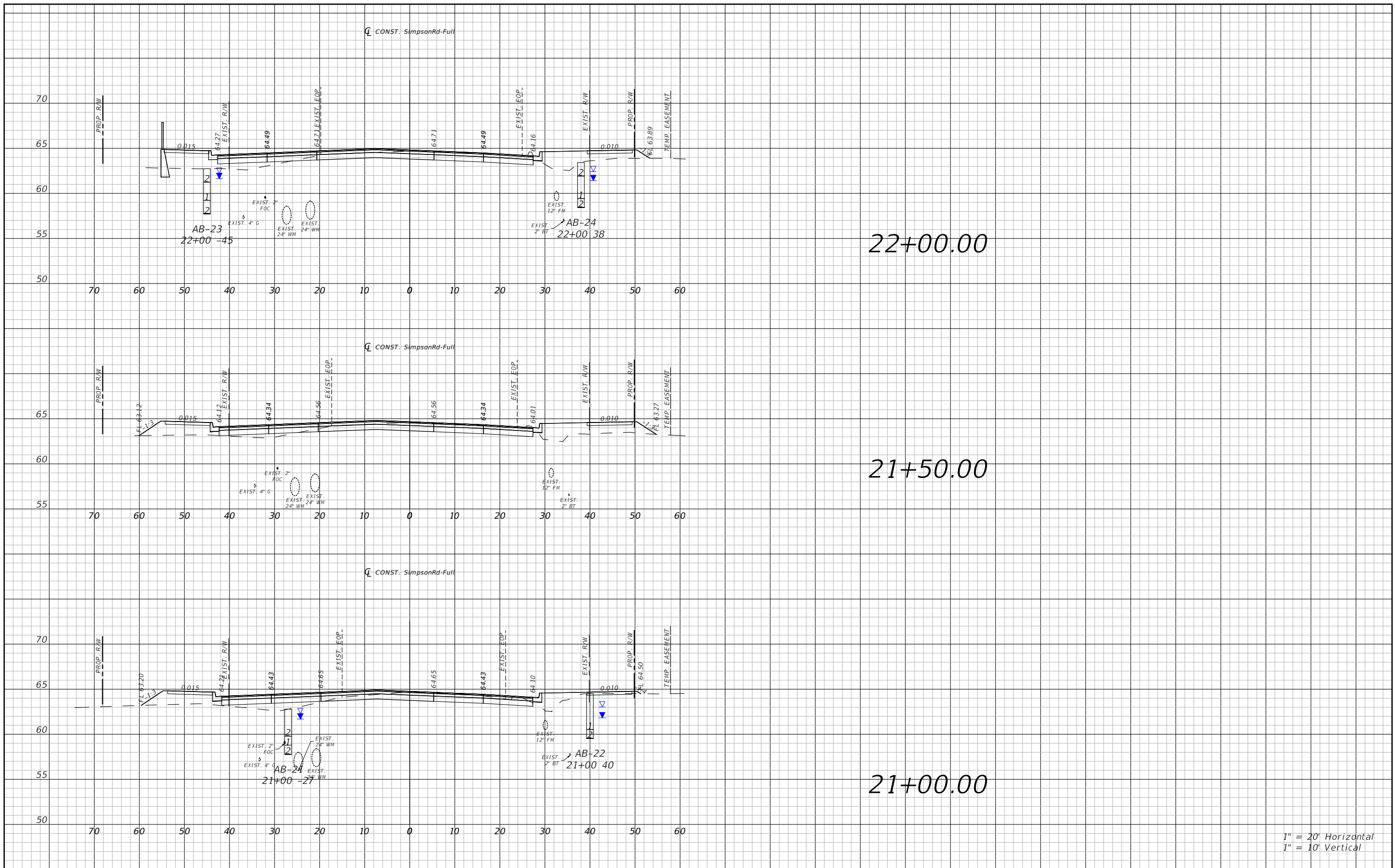
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OSCEOLA COUNTY
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SIMPSON RD CROSS SECTIONS
SHEET 9

SHEET NO.
84



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

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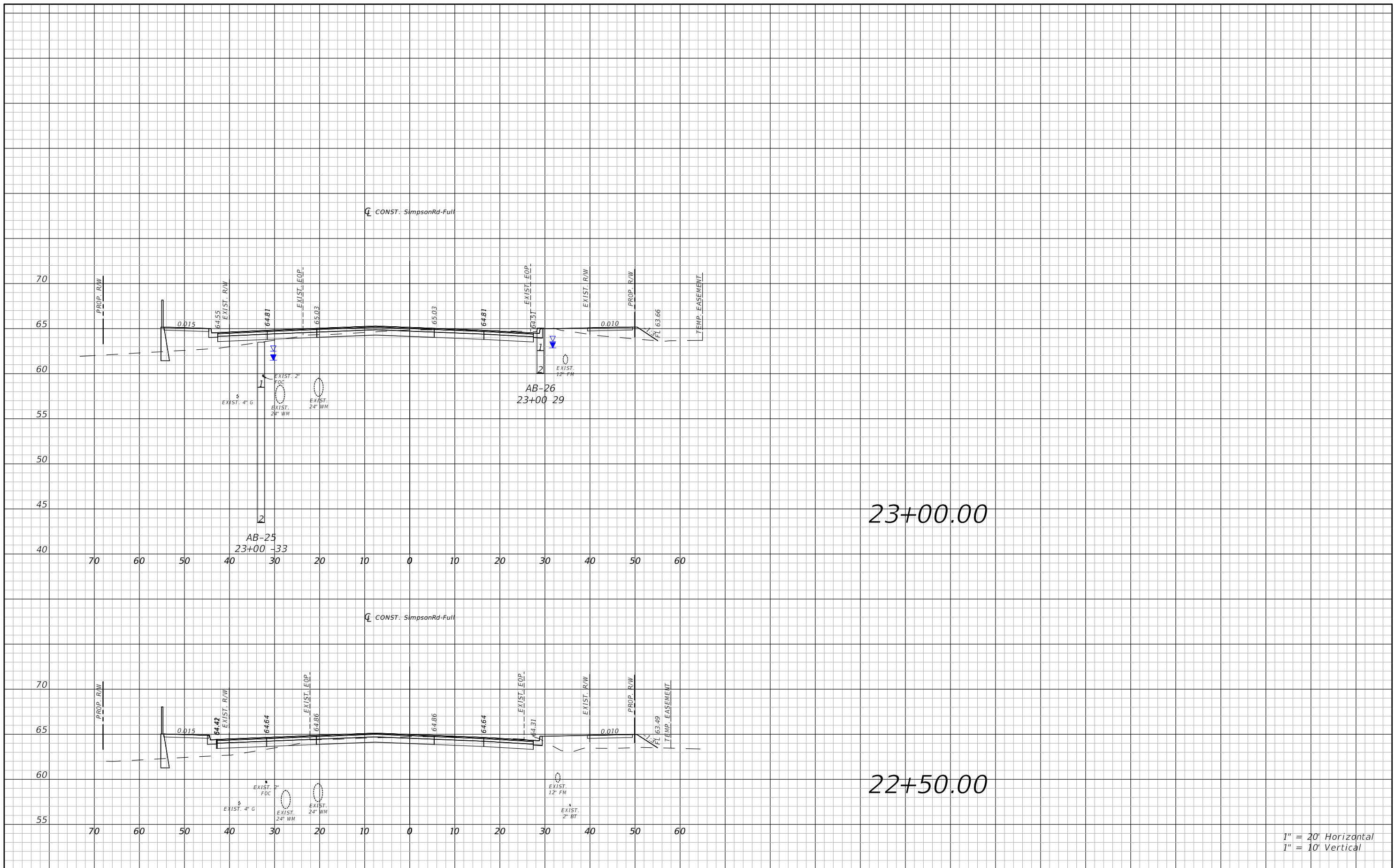
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FLORIDA

SIMPSON RD CROSS SECTIONS
SHEET 10

SHEET NO.
85

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



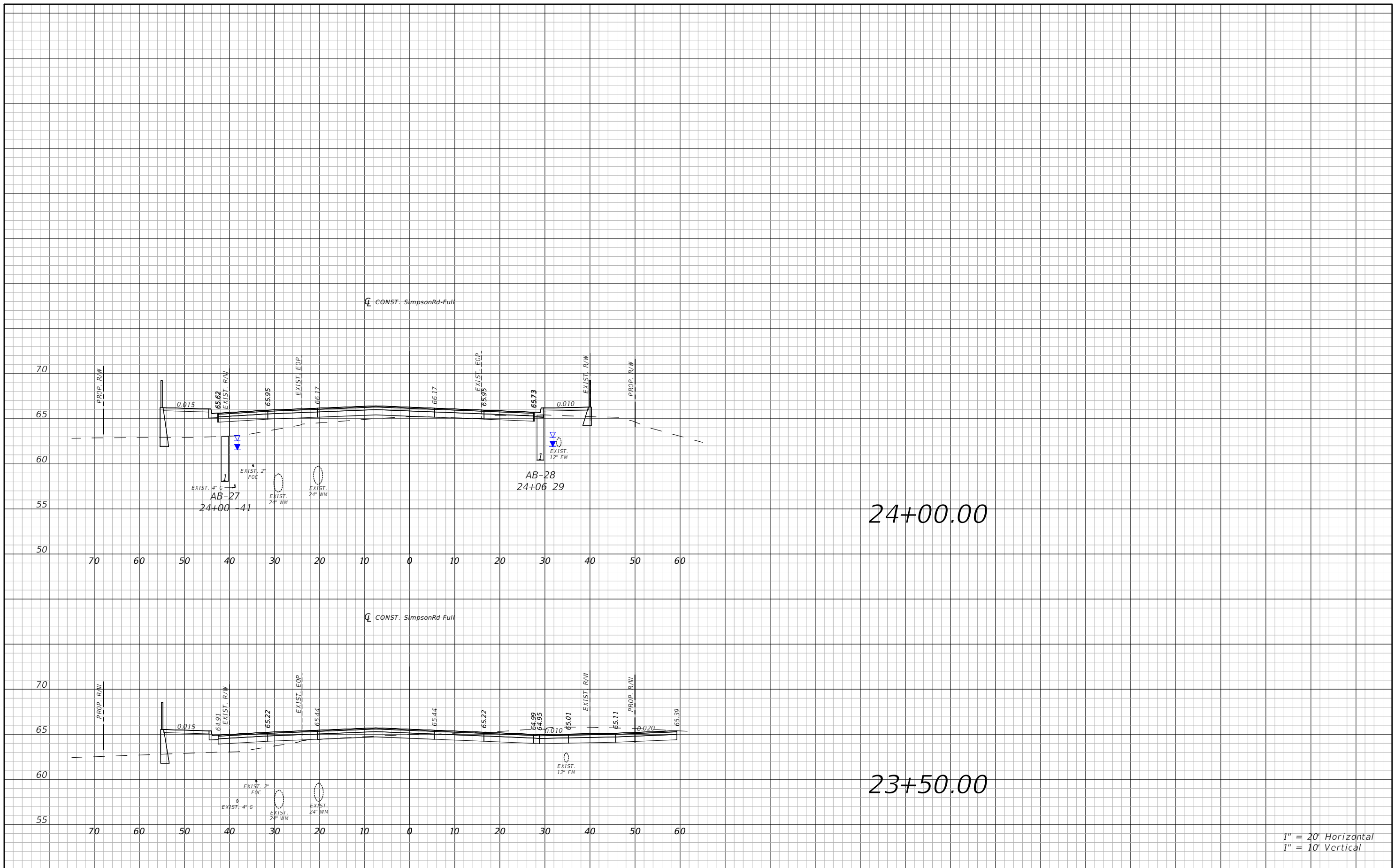
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OSCEOLA COUNTY
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**SIMPSON RD CROSS SECTIONS
SHEET 11**

SHEET NO.
86



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

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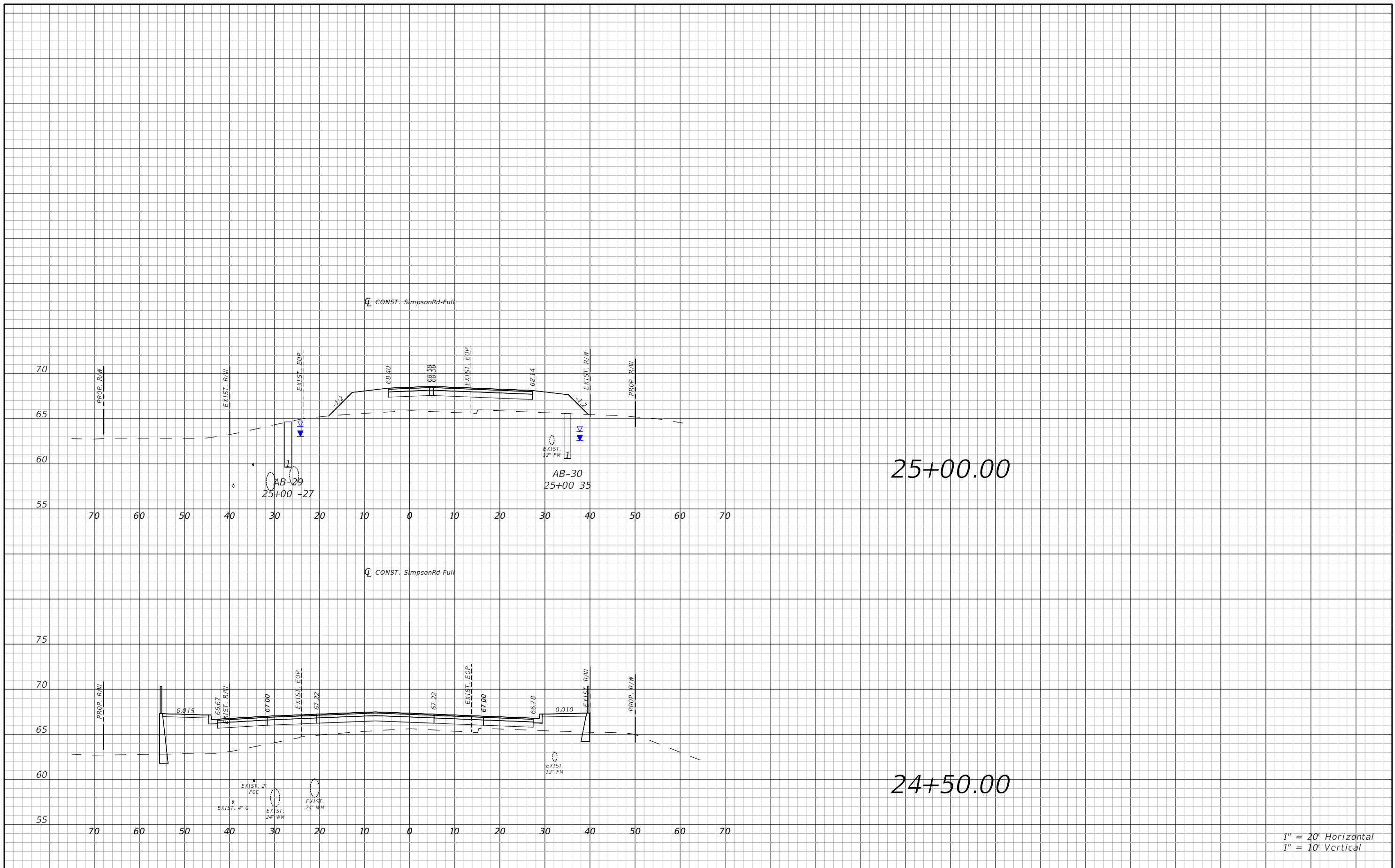


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SIMPSON RD CROSS SECTIONS
SHEET 12

SHEET NO.
87

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25+00.00

24+50.00

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

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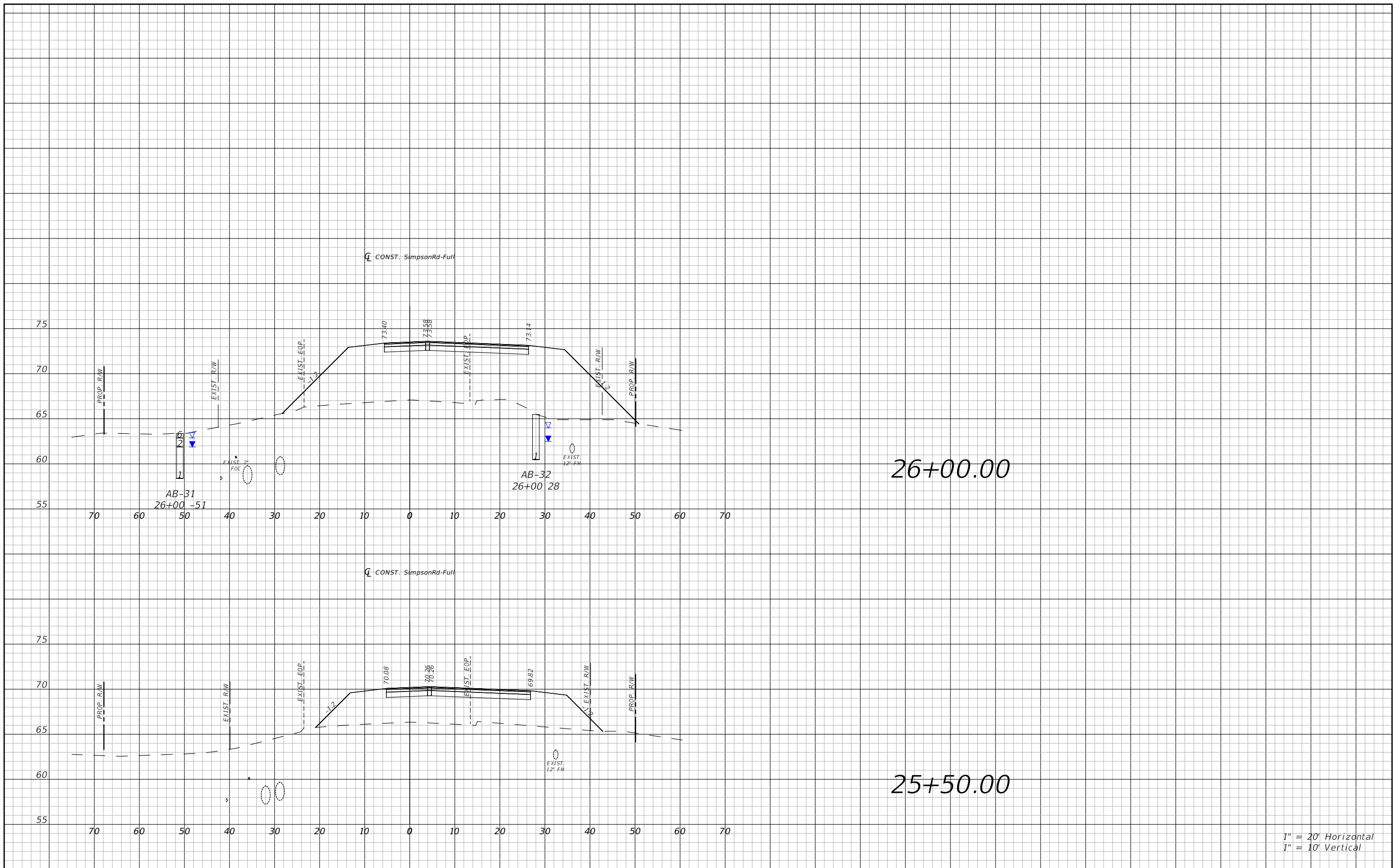


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SIMPSON RD CROSS SECTIONS
SHEET 13


SHEET NO.
88

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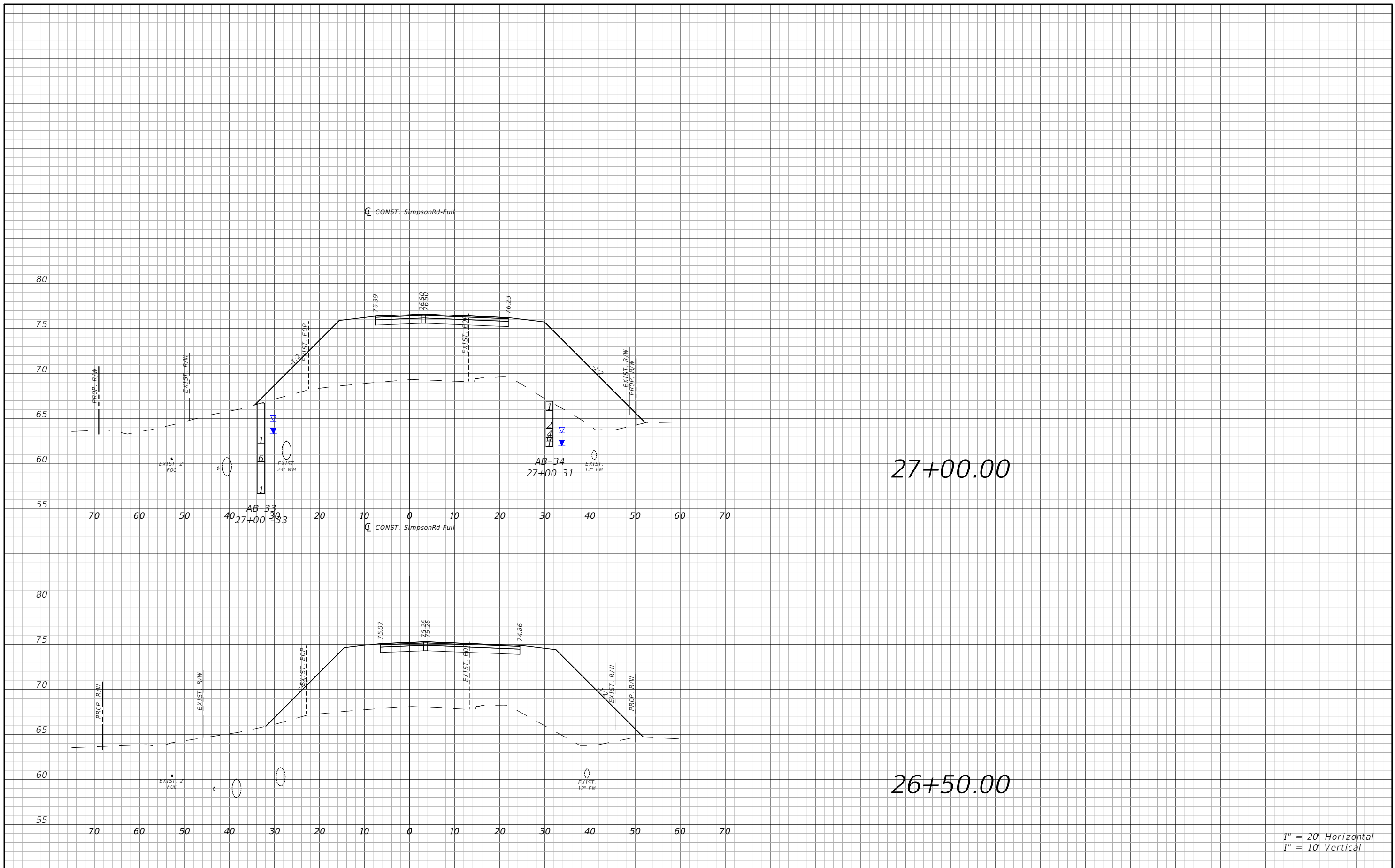


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SIMPSON RD CROSS SECTIONS
SHEET 14

SHEET
NO.
89

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27+00.00

26+50.00

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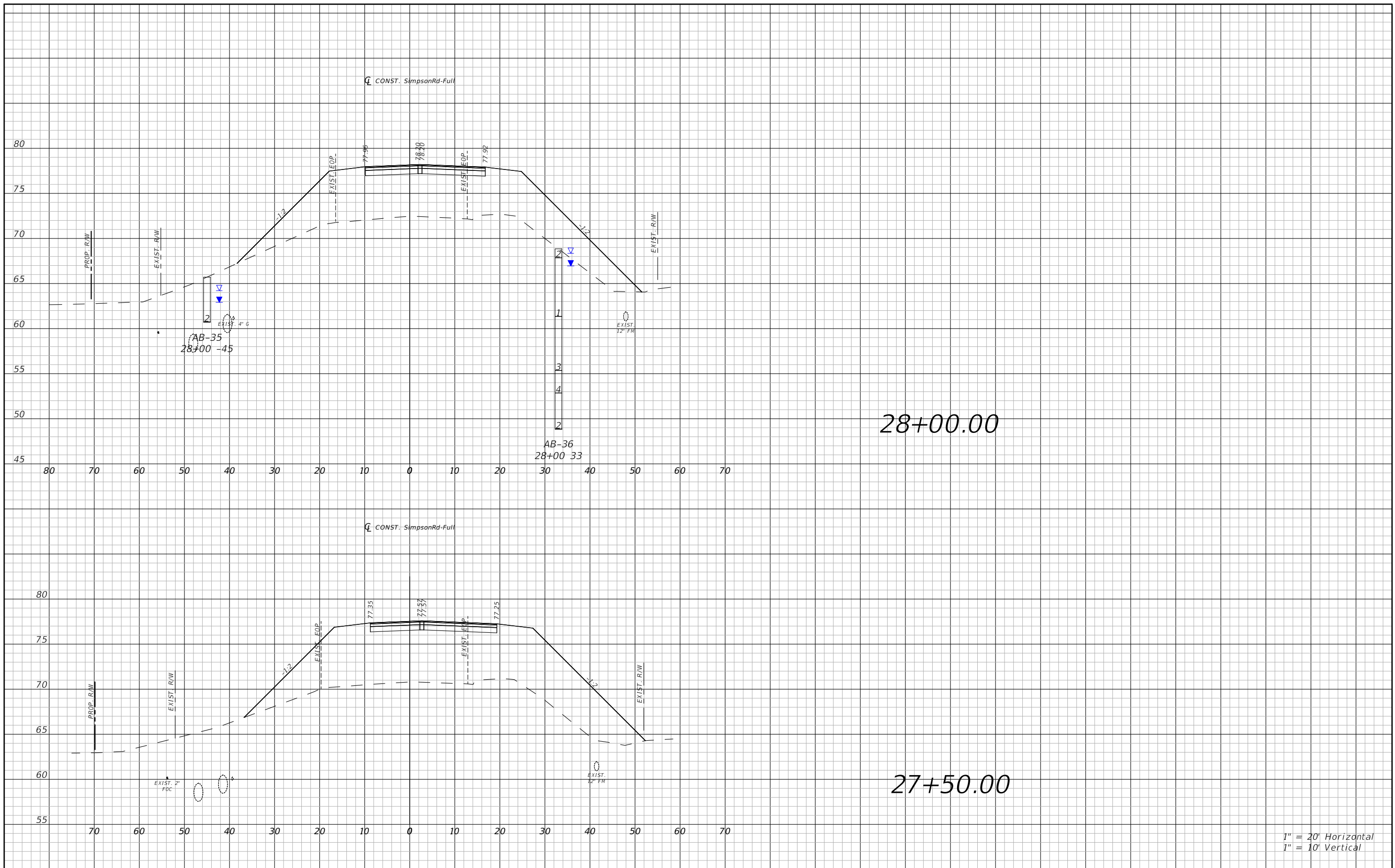


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SIMPSON RD CROSS SECTIONS
SHEET 15


SHEET
NO.
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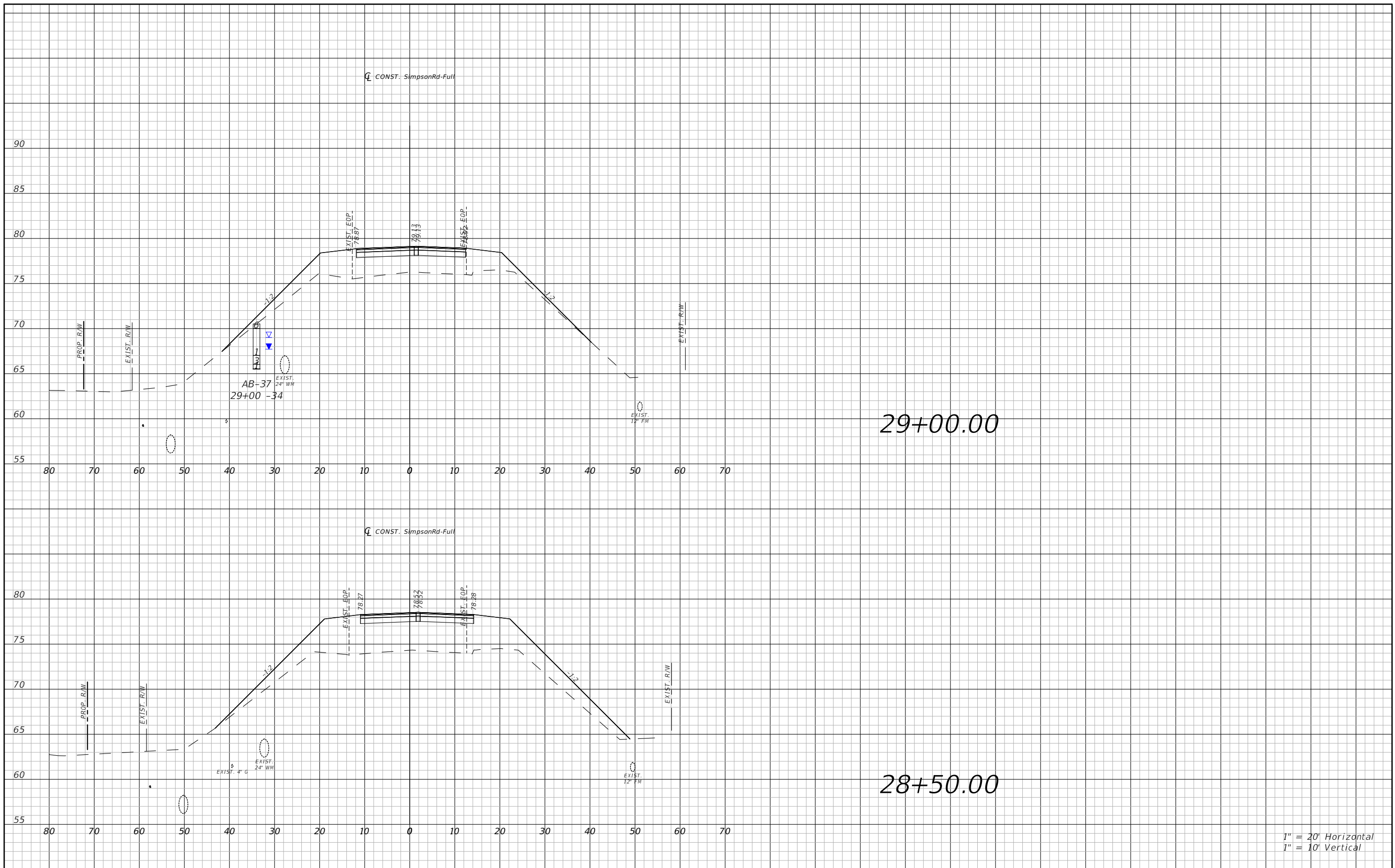


OSCEOLA COUNTY
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SIMPSON RD CROSS SECTIONS
SHEET 16

SHEET NO.
91

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1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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Mark F. Bertocini, P.E.
PE # 63437

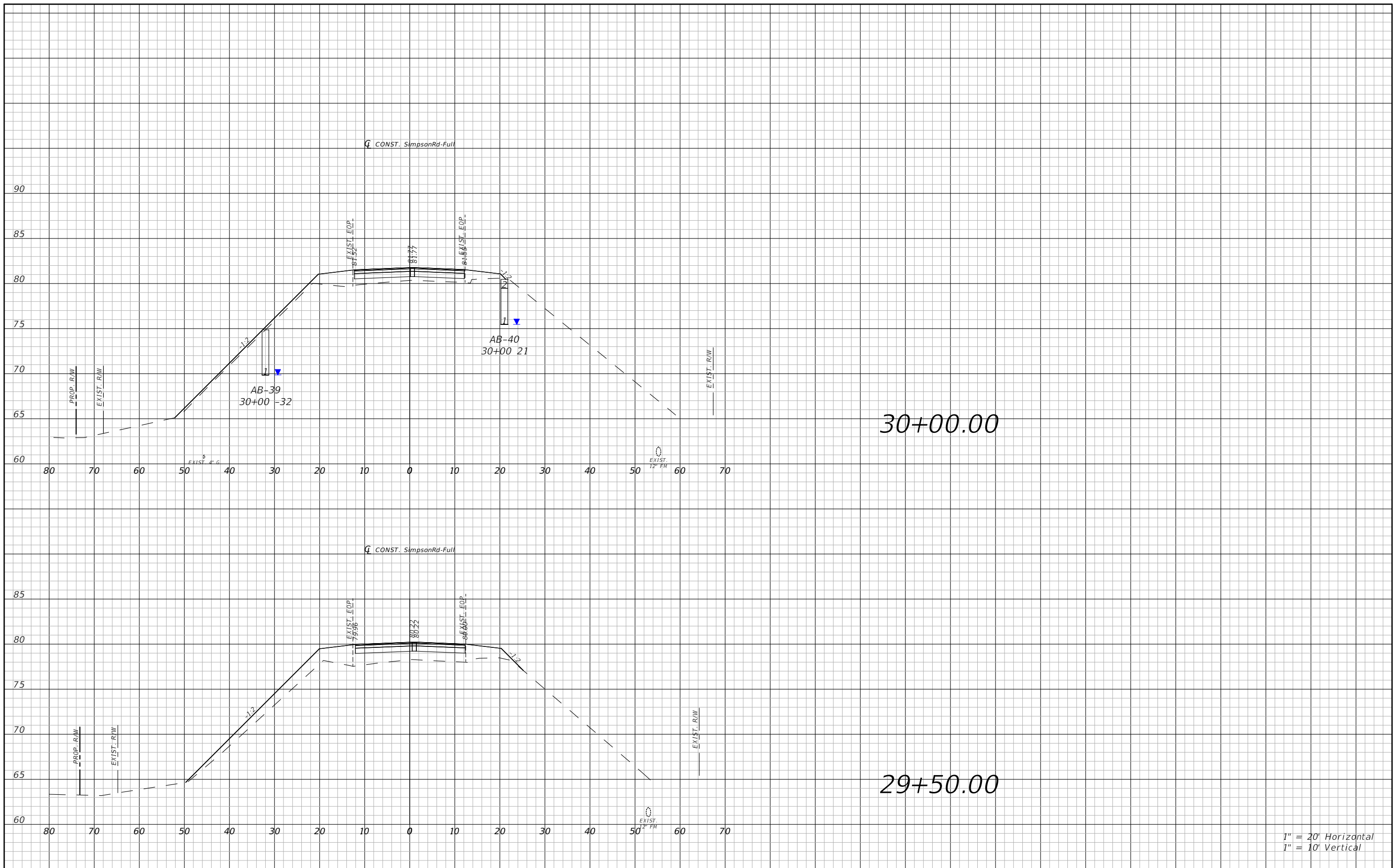


OSCEOLA COUNTY
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SIMPSON RD CROSS SECTIONS
SHEET 17

SHEET NO.
92

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

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vhb Engineers | Scientists
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225 E. Robinson Street, Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization # 3932
Mark F. Bertocini, P.E.
PE # 63437

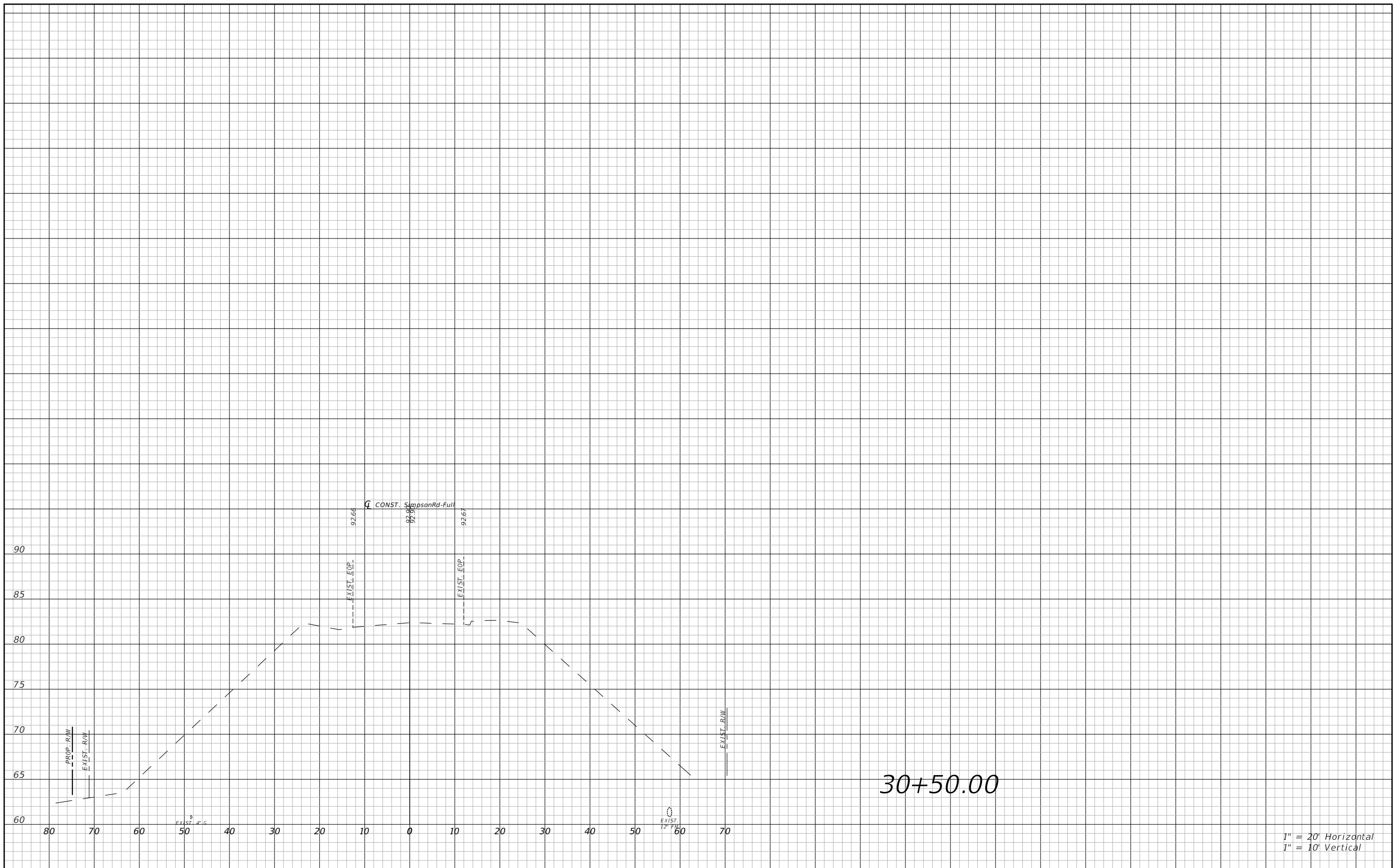


OSCEOLA COUNTY
FLORIDA

SIMPSON RD CROSS SECTIONS
SHEET 18


SHEET NO.
93

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1" = 10' Vertical

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PE # 63437

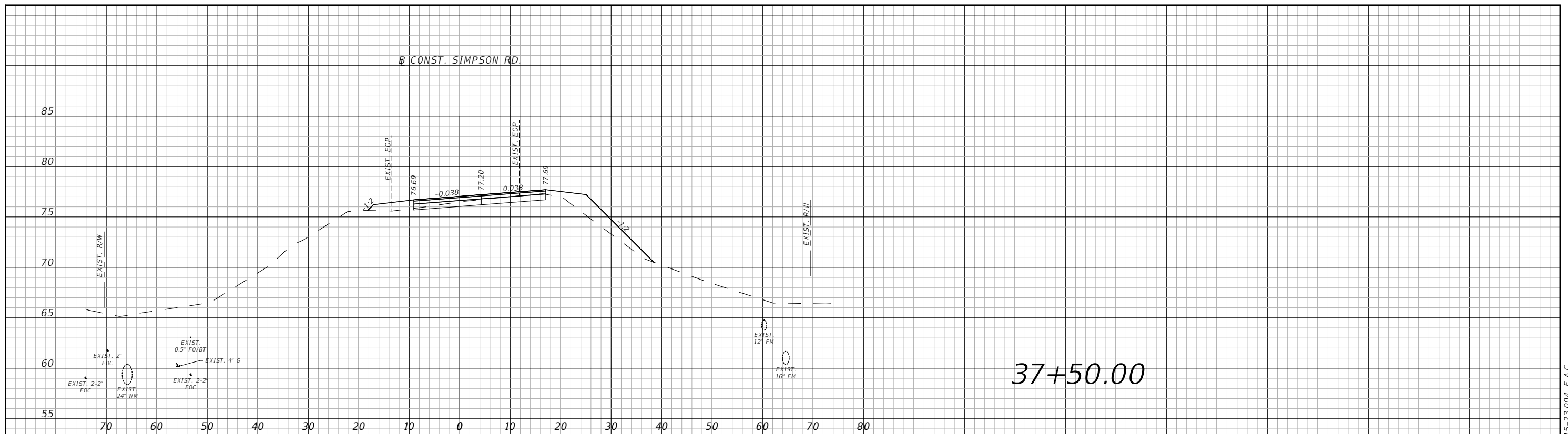


OSCEOLA COUNTY
FLORIDA

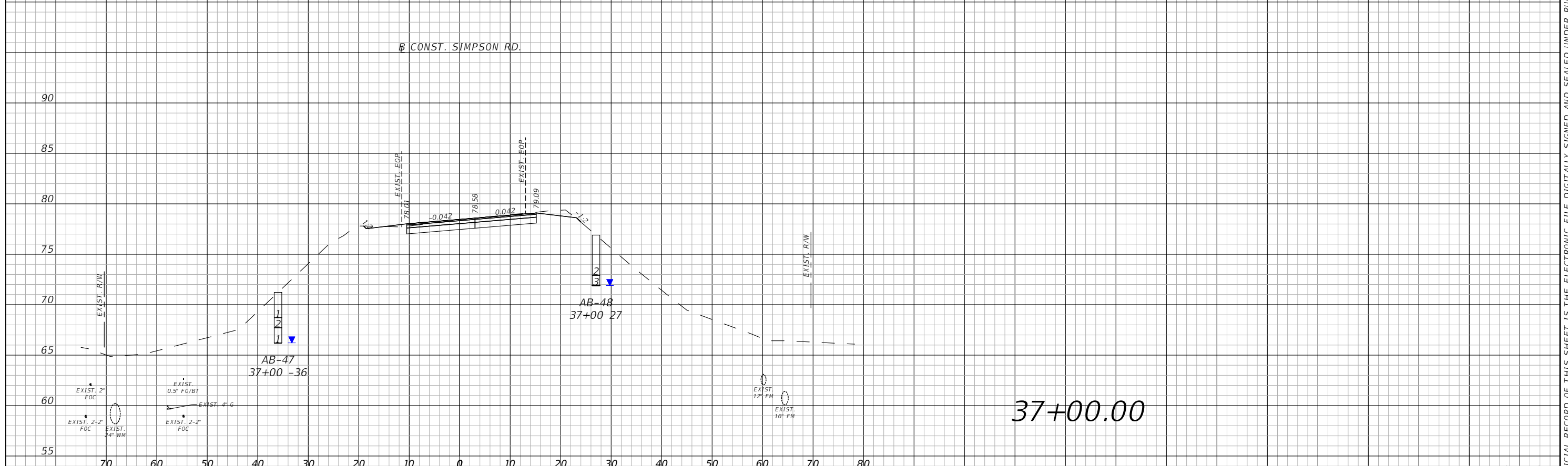
SIMPSON RD CROSS SECTIONS
SHEET 19

SHEET NO.
94

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37+50.00



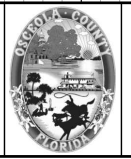
37+00.00

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

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DATE	DESCRIPTION	DATE	DESCRIPTION



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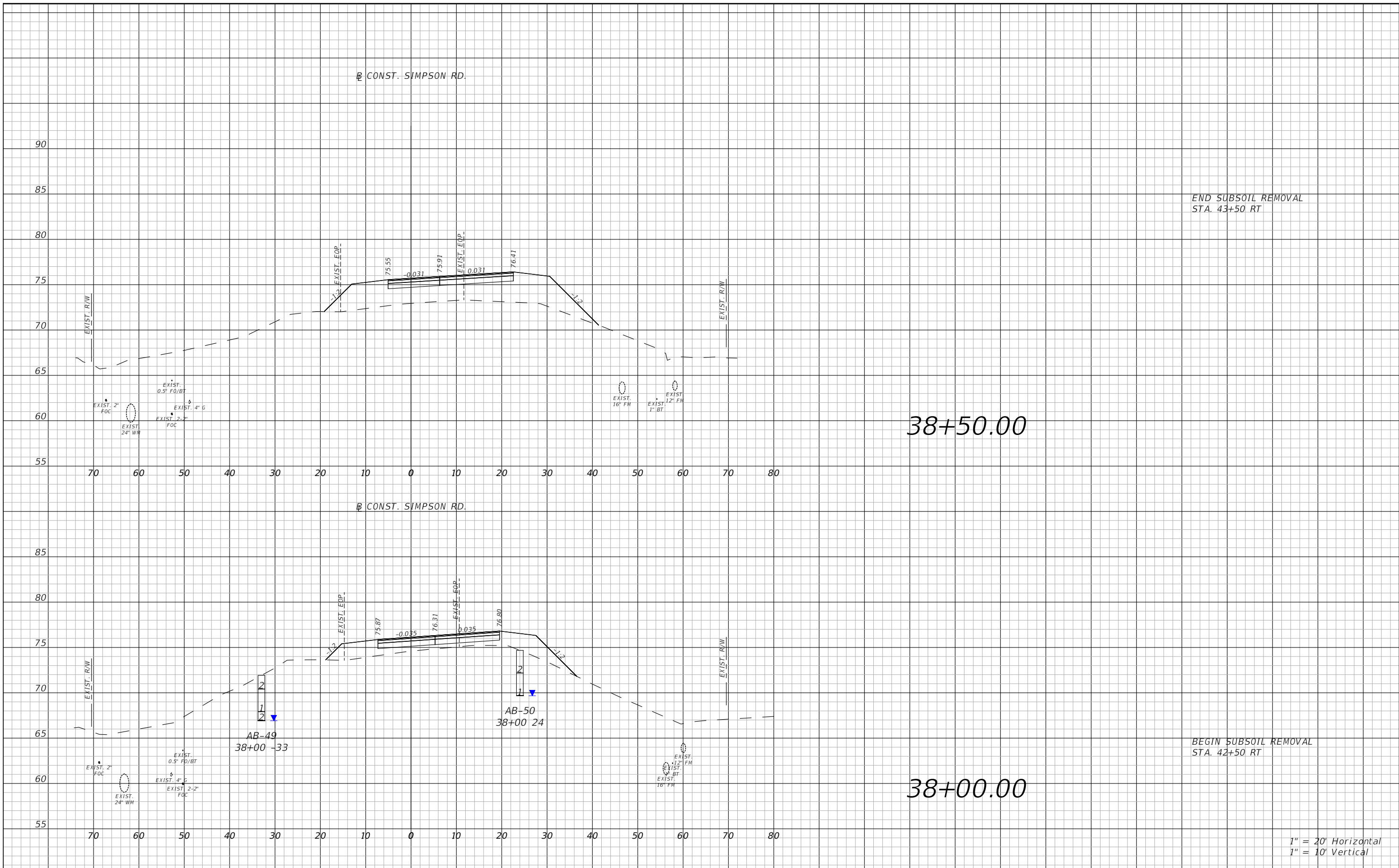


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SIMPSON RD CROSS SECTIONS
SHEET 20

SHEET NO.
95

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END SUBSOIL REMOVAL
STA. 43+50 RT

38+50.00

CONST. SIMPSON RD.

BEGIN SUBSOIL REMOVAL
STA. 42+50 RT

38+00.00

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

REVISIONS			
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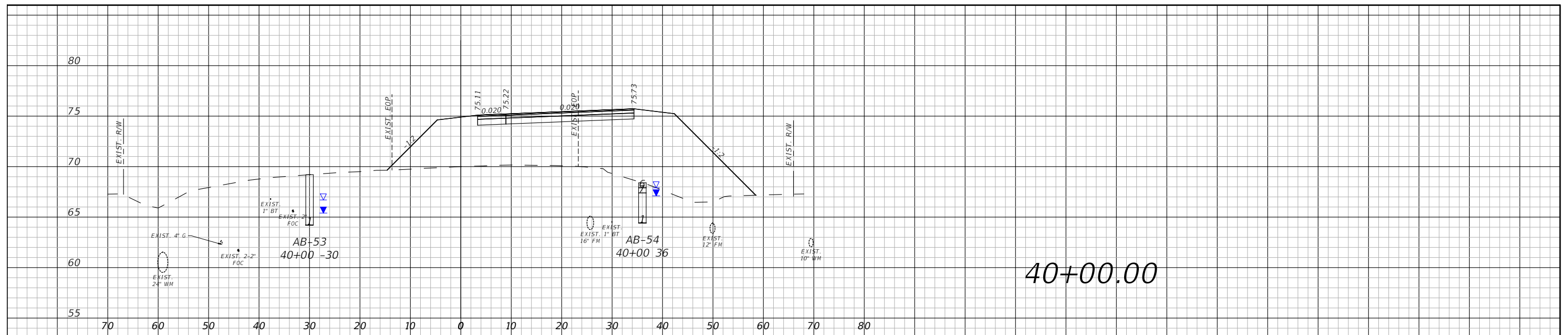


OSCEOLA COUNTY
FLORIDA

SIMPSON RD CROSS SECTIONS
SHEET 21

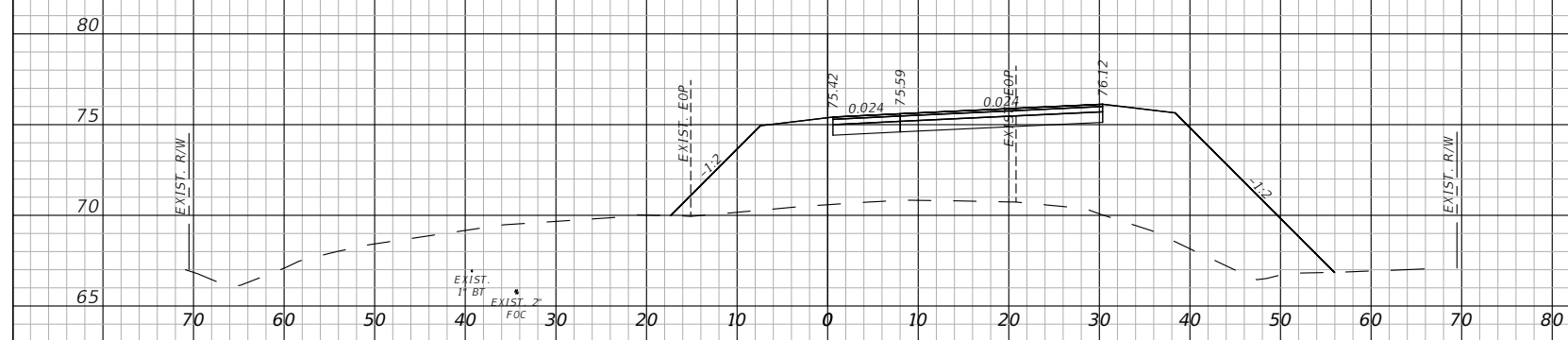
SHEET NO.
96

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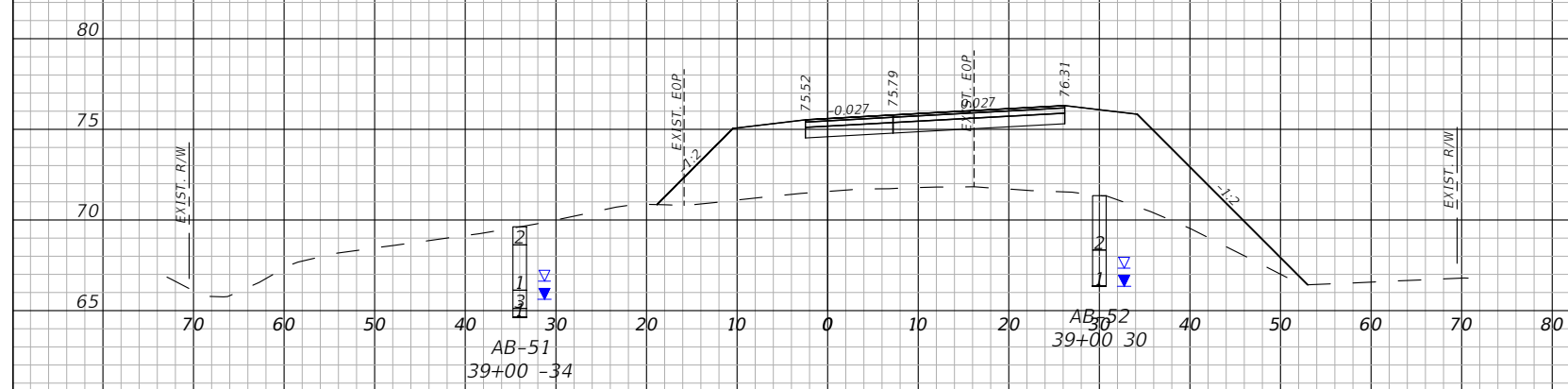
CONST. SIMPSON RD.

40+00.00



CONST. SIMPSON RD.

39+50.00



CONST. SIMPSON RD.

39+00.00

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

REVISIONS			
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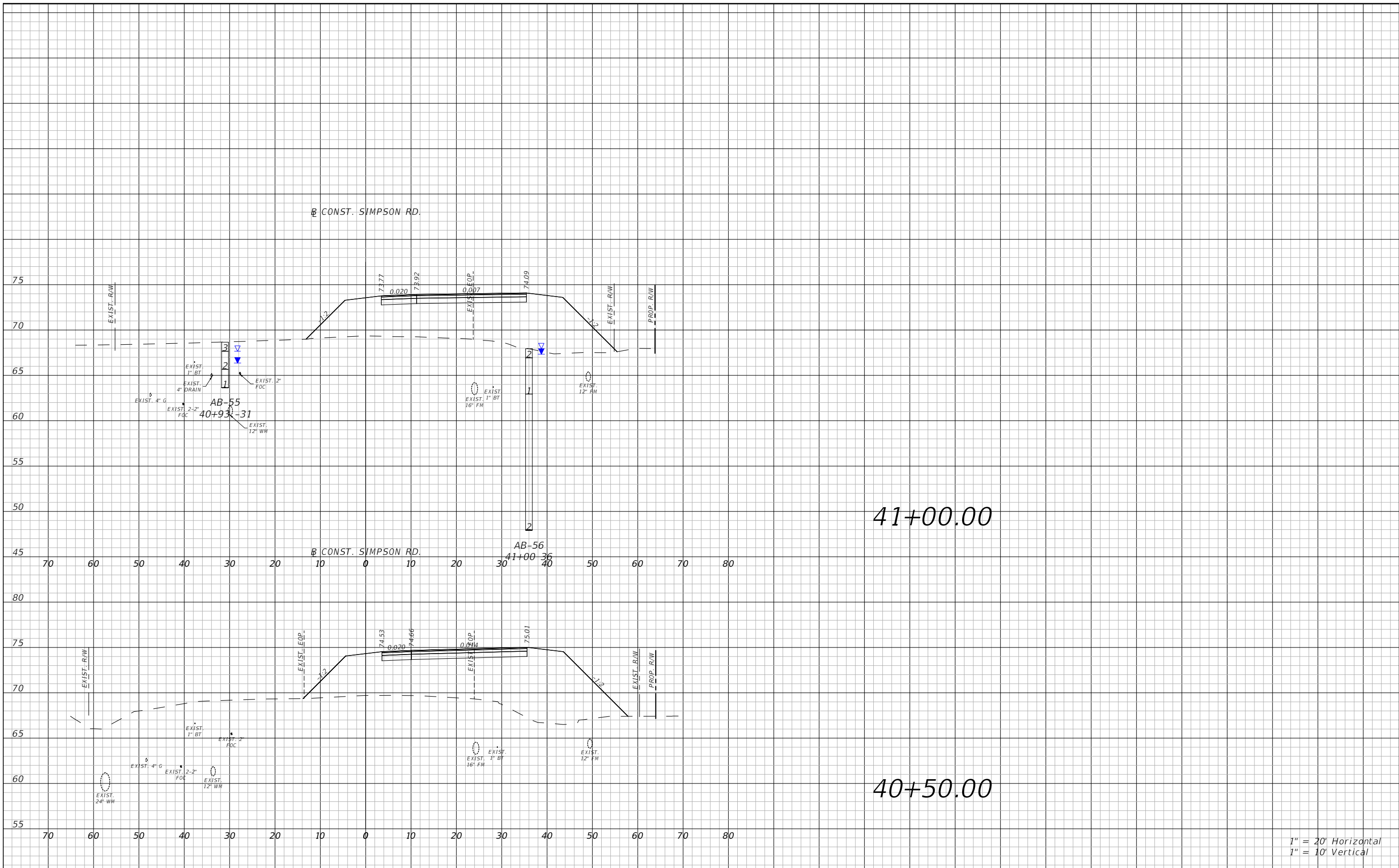


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SIMPSON RD CROSS SECTIONS
SHEET 22

SHEET NO.
97

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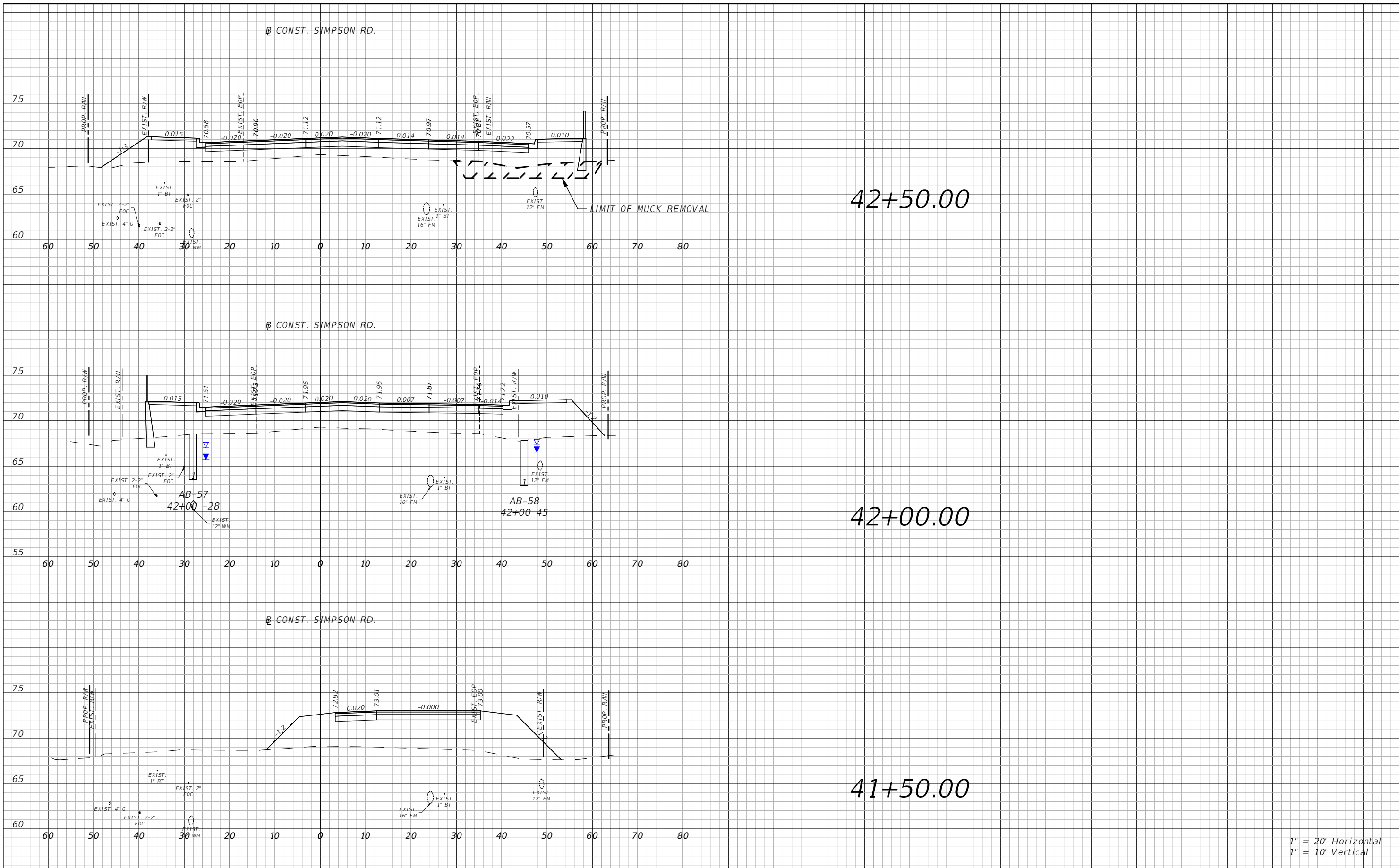


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SIMPSON RD CROSS SECTIONS
SHEET 23

SHEET NO.
98

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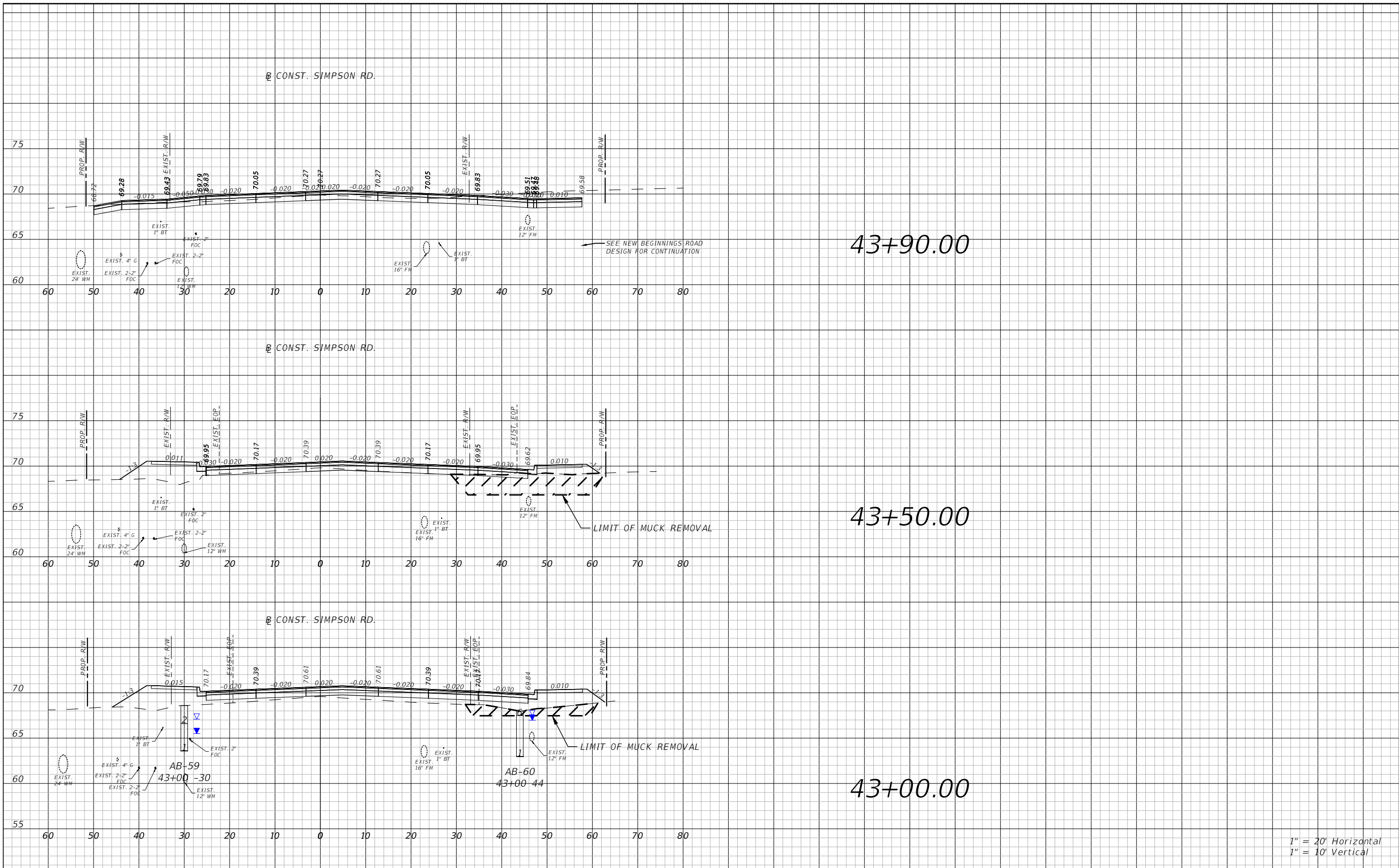


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SIMPSON RD CROSS SECTIONS
SHEET 24

SHEET NO.
99

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PE # 63437

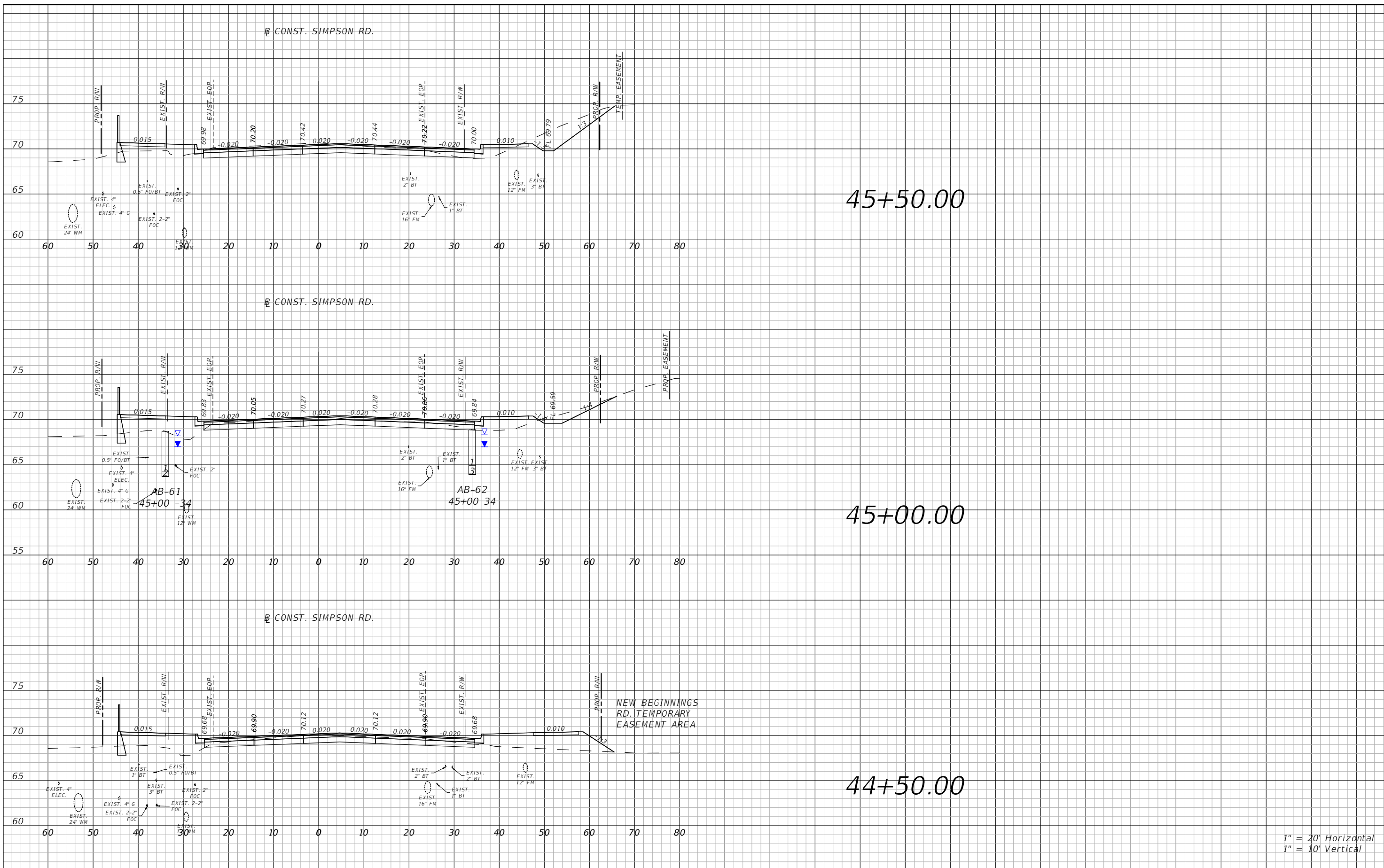


OSCEOLA COUNTY
FLORIDA

SIMPSON RD CROSS SECTIONS
SHEET 25

SHEET NO.
100

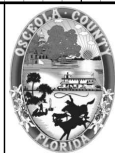
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THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

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DATE	DESCRIPTION	DATE	DESCRIPTION

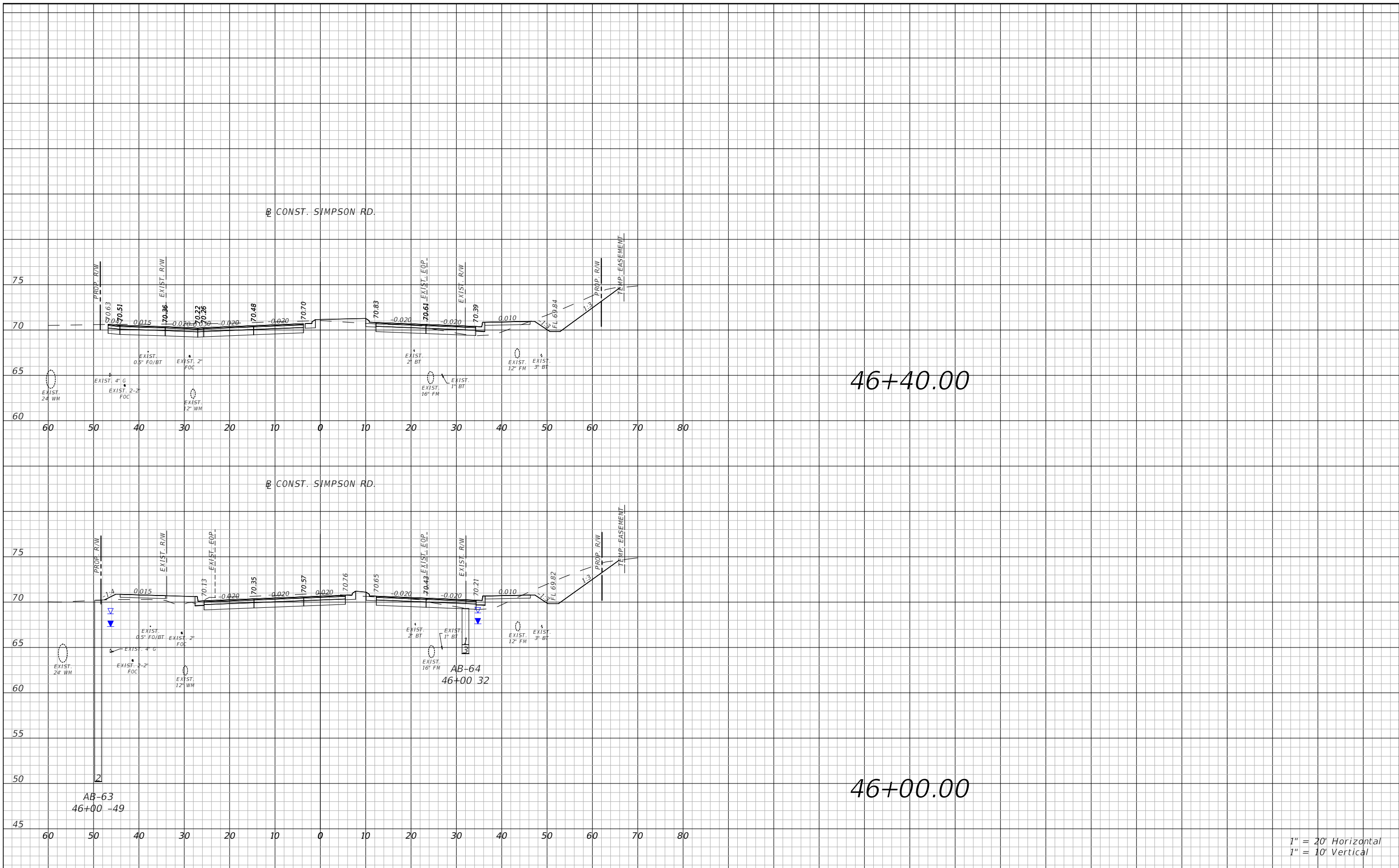
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SIMPSON RD CROSS SECTIONS
SHEET 26

SHEET NO.
101

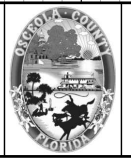


1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
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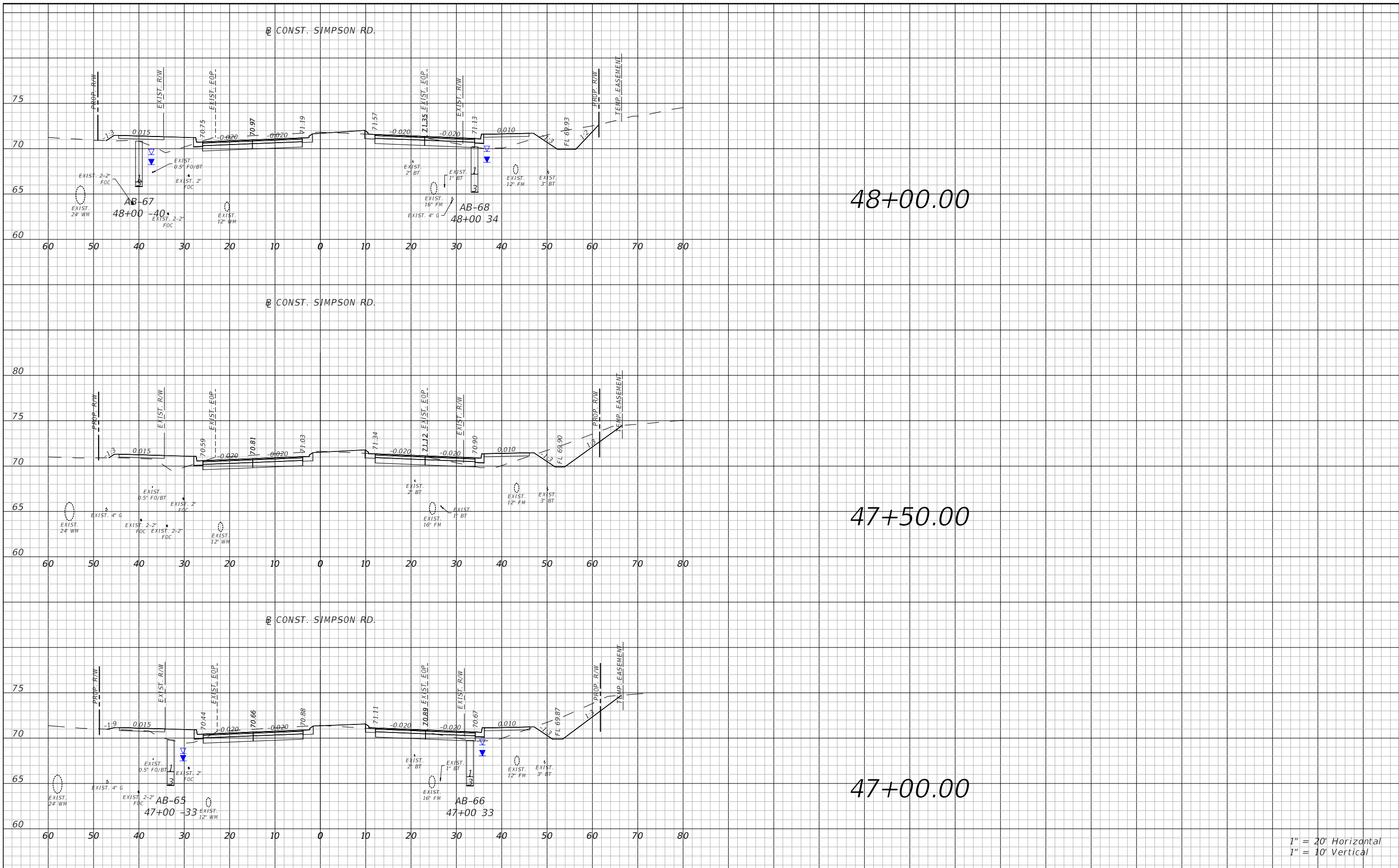


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SHEET 27

SHEET NO.
102

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1" = 10' Vertical

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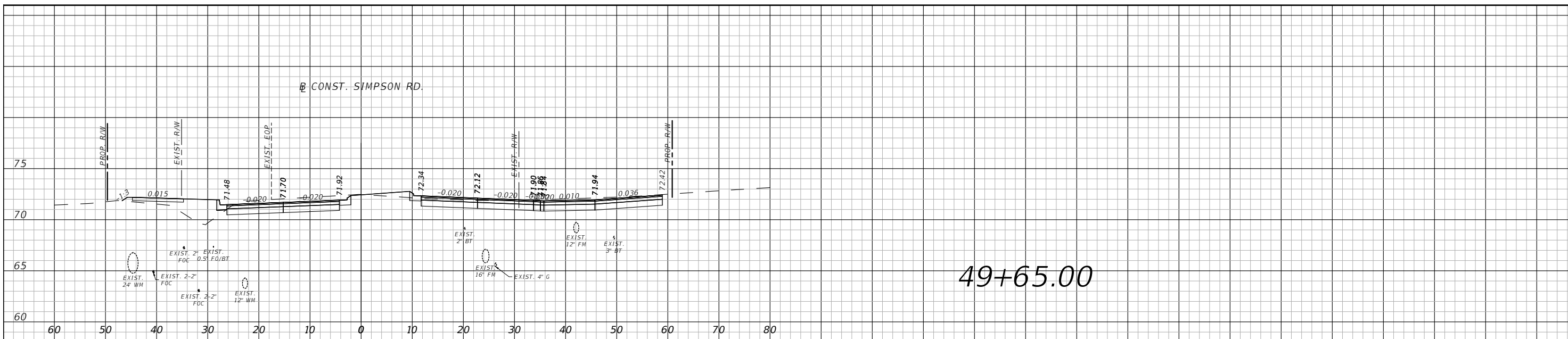


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FLORIDA

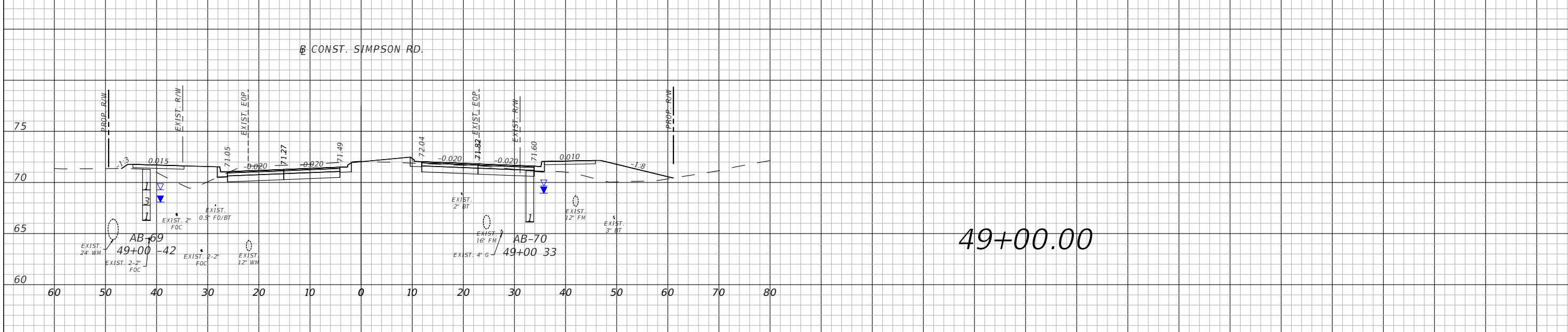
SIMPSON RD CROSS SECTIONS
SHEET 28

SHEET NO.
103

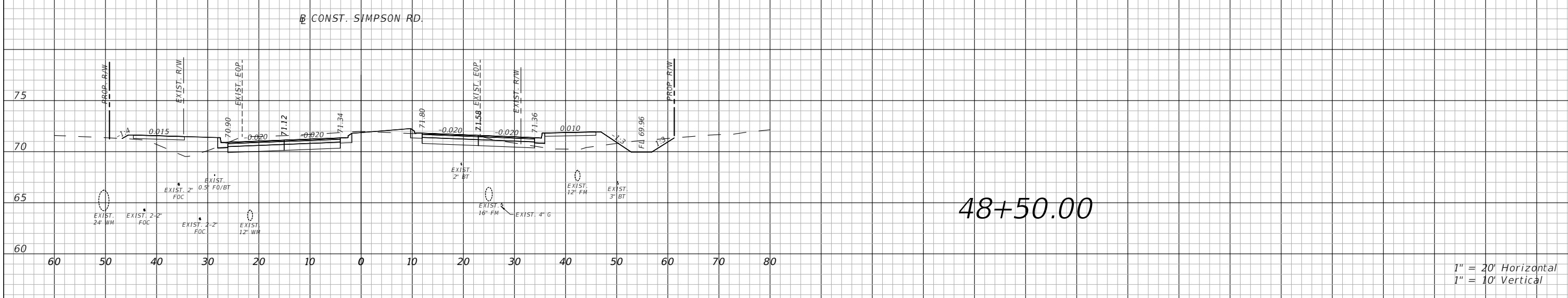
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49+65.00



49+00.00



48+50.00

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

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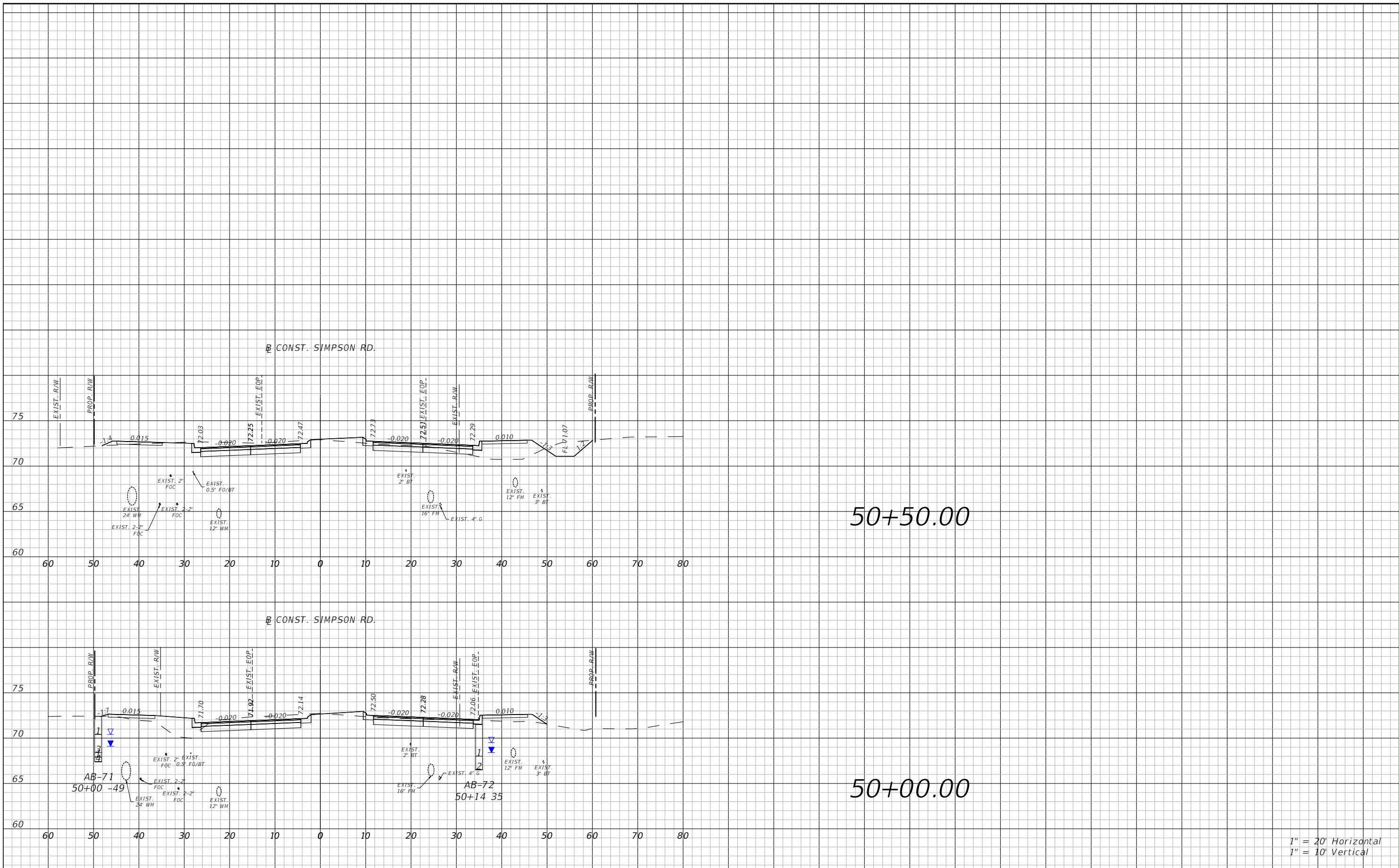


OSCEOLA COUNTY
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SIMPSON RD CROSS SECTIONS
SHEET 29

SHEET NO.
104

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DATE	DESCRIPTION	DATE	DESCRIPTION



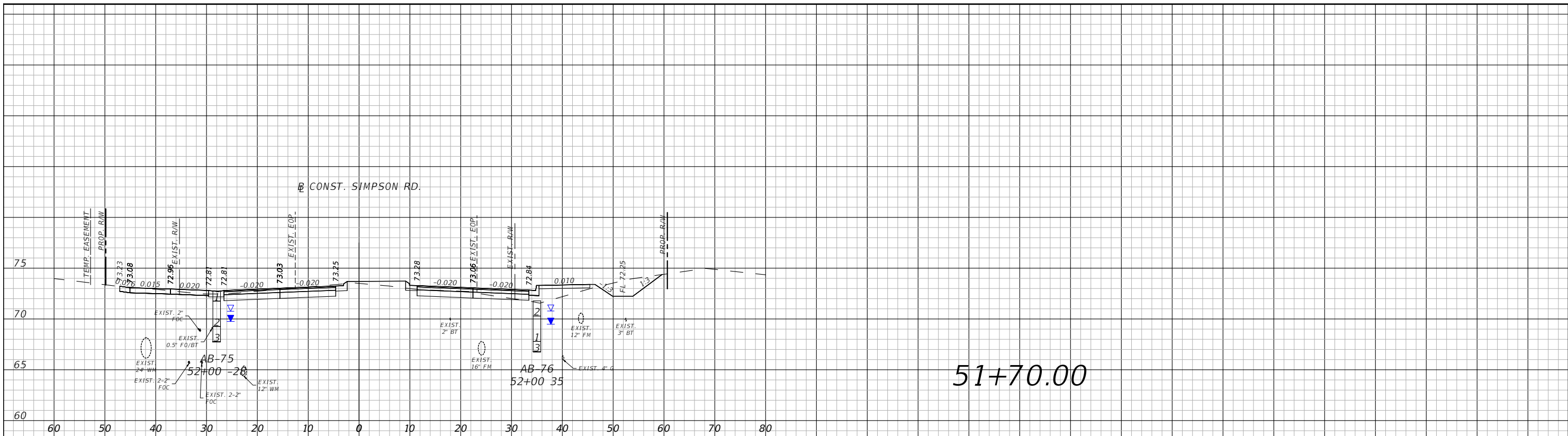
Engineers | Scientists
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PE # 63437



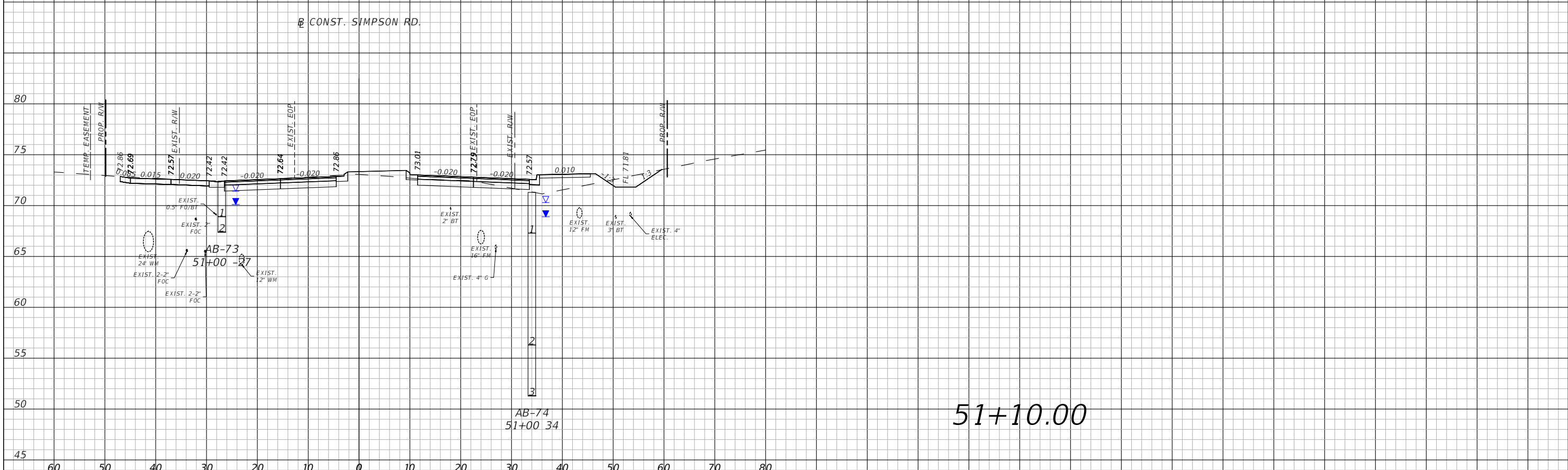
OSCEOLA COUNTY
FLORIDA

SIMPSON RD CROSS SECTIONS
SHEET 30

SHEET NO.
105



51+70.00



51+10.00

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

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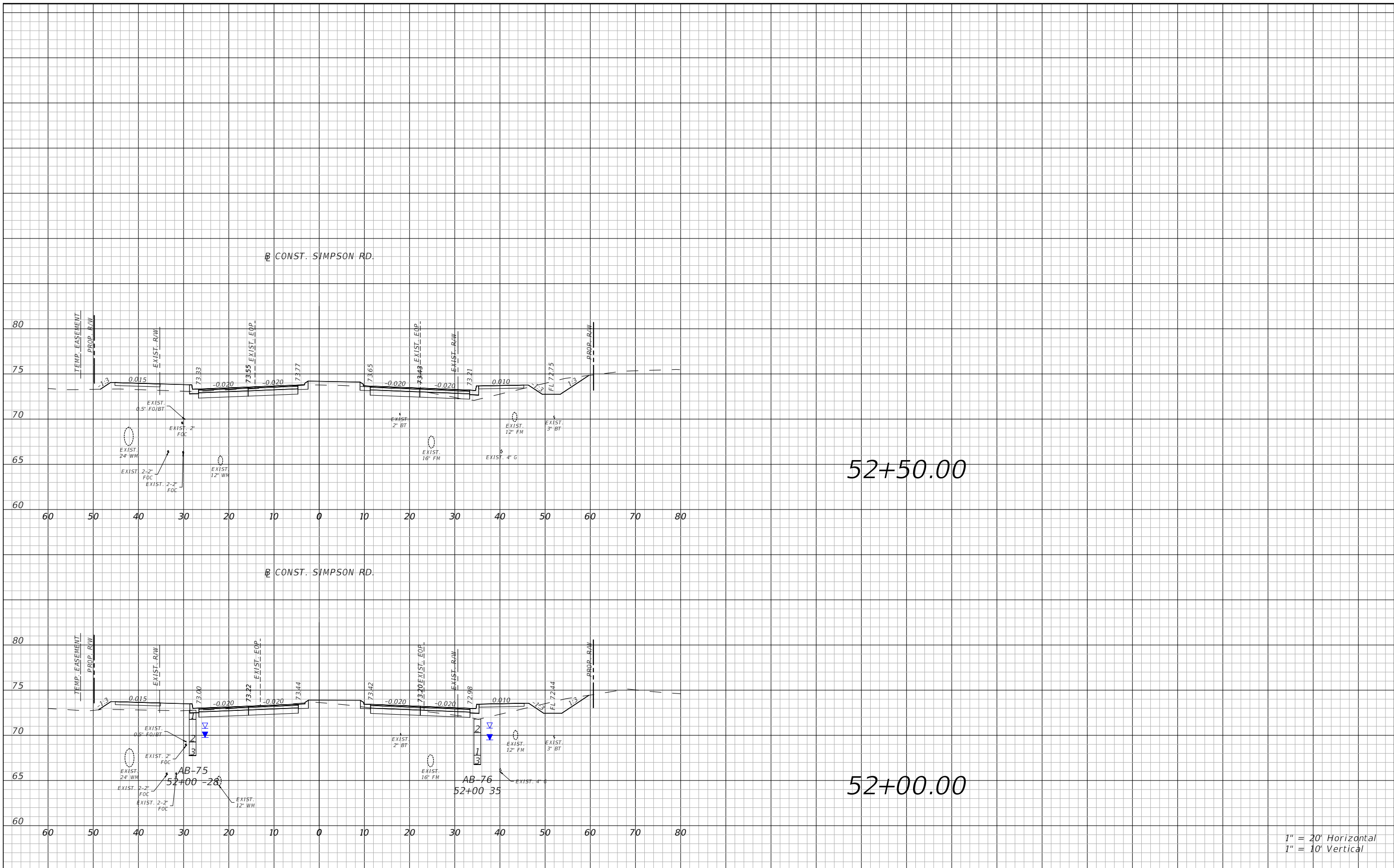


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SIMPSON RD CROSS SECTIONS
SHEET 31

SHEET NO.
106

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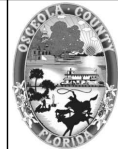
52+50.00

52+00.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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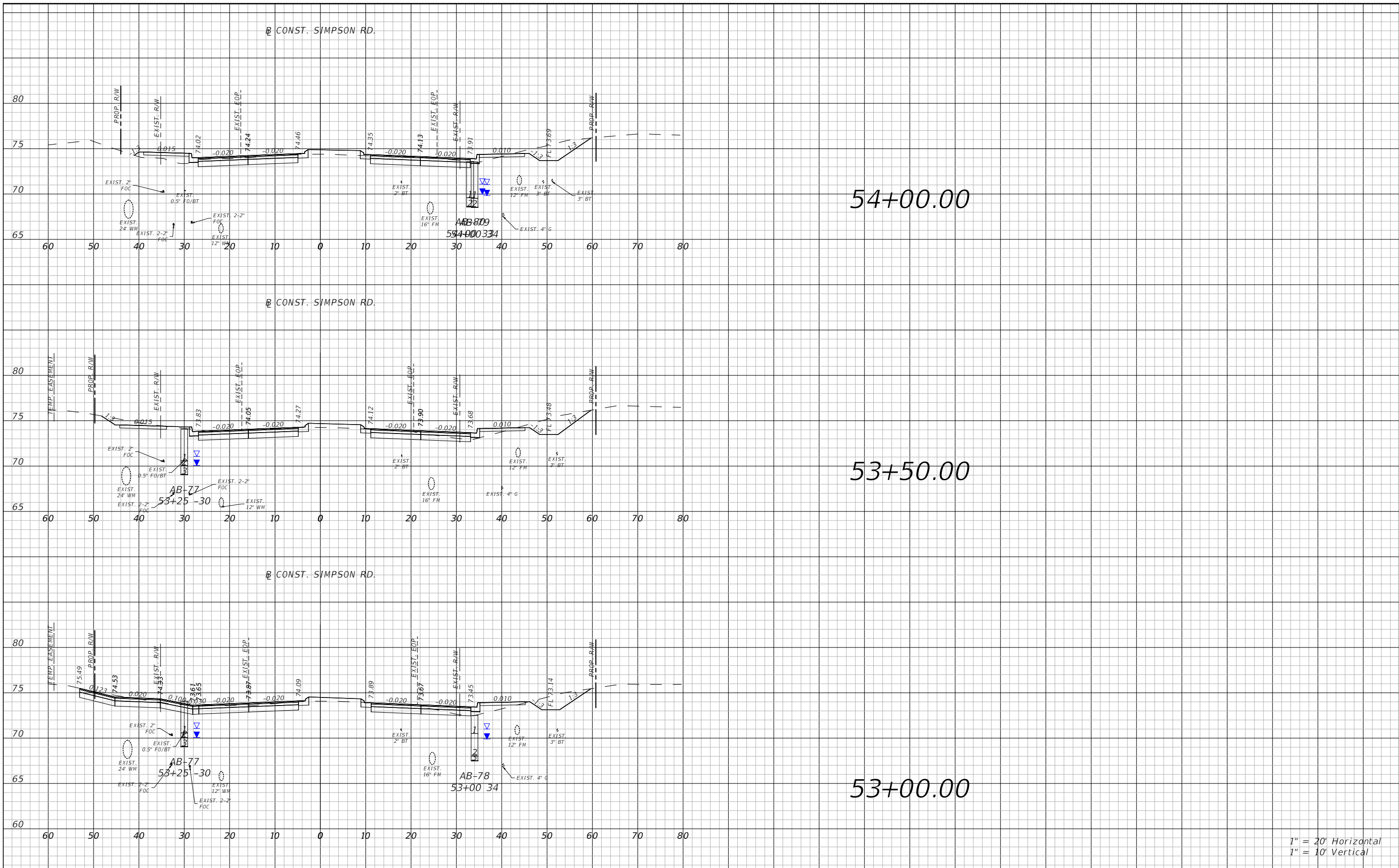


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SIMPSON RD CROSS SECTIONS
SHEET 32

SHEET NO.
107

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1" = 10' Vertical

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PE # 63437

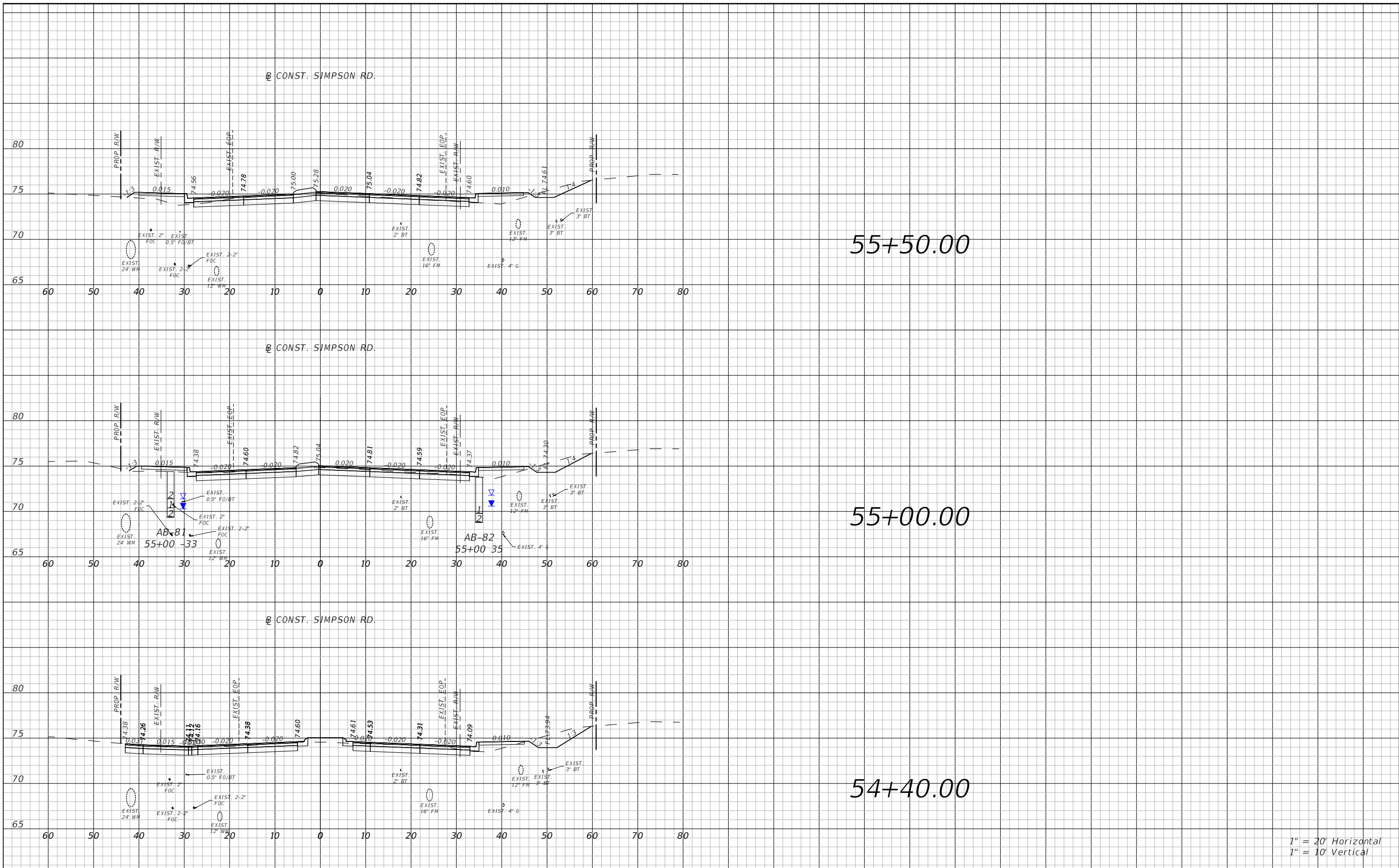


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SIMPSON RD CROSS SECTIONS
SHEET 33

SHEET NO.
108

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

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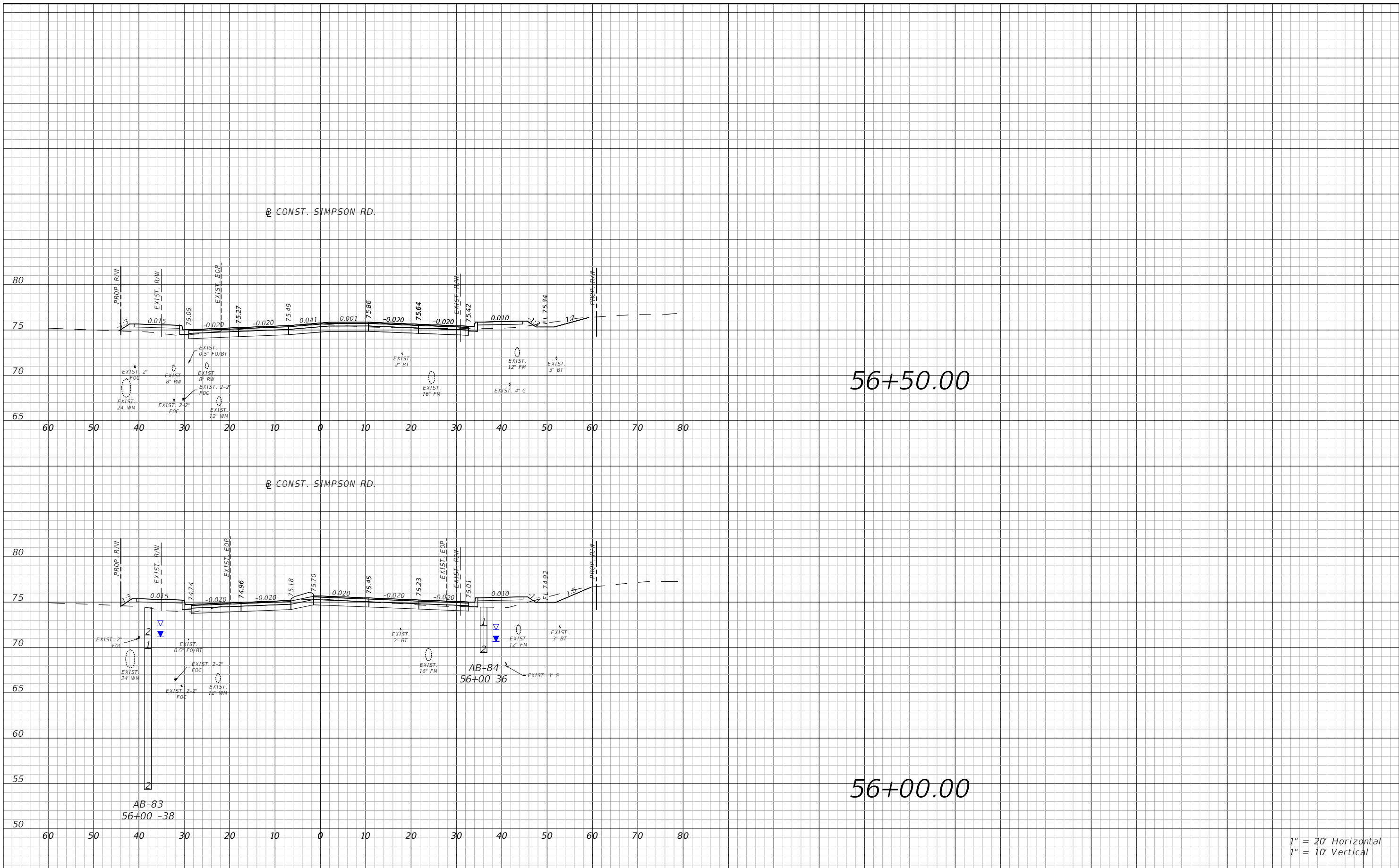


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**SIMPSON RD CROSS SECTIONS
SHEET 34**

SHEET NO.
109

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56+50.00

56+00.00

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

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PE # 63437

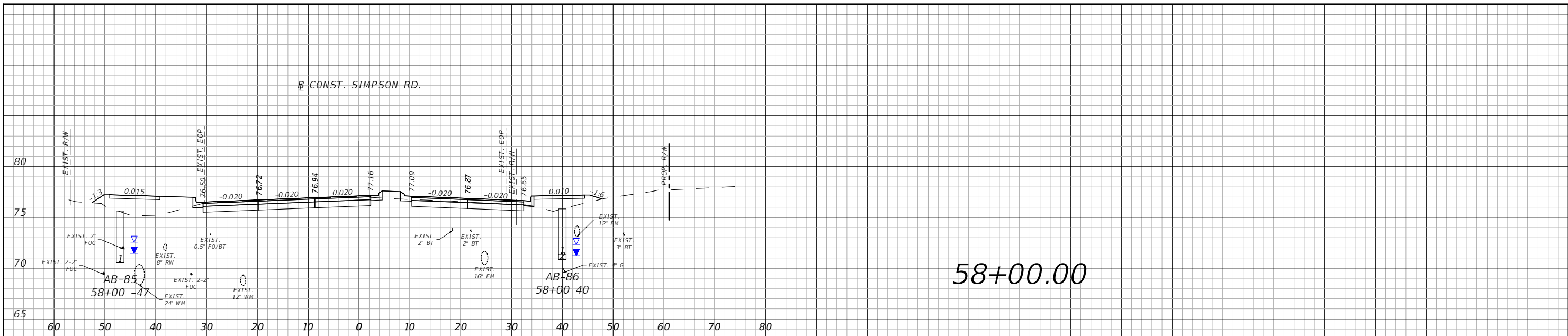


OSCEOLA COUNTY
FLORIDA

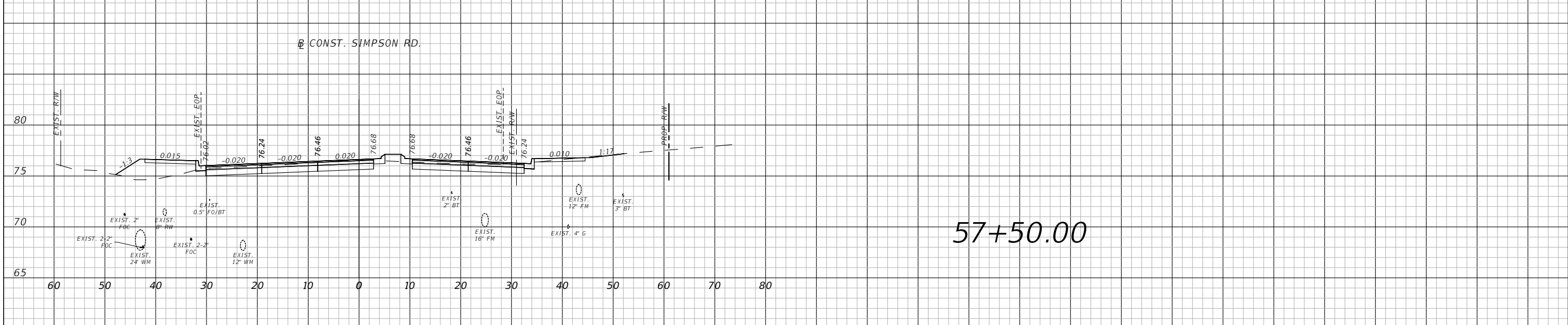
SIMPSON RD CROSS SECTIONS
SHEET 35

SHEET NO.
110

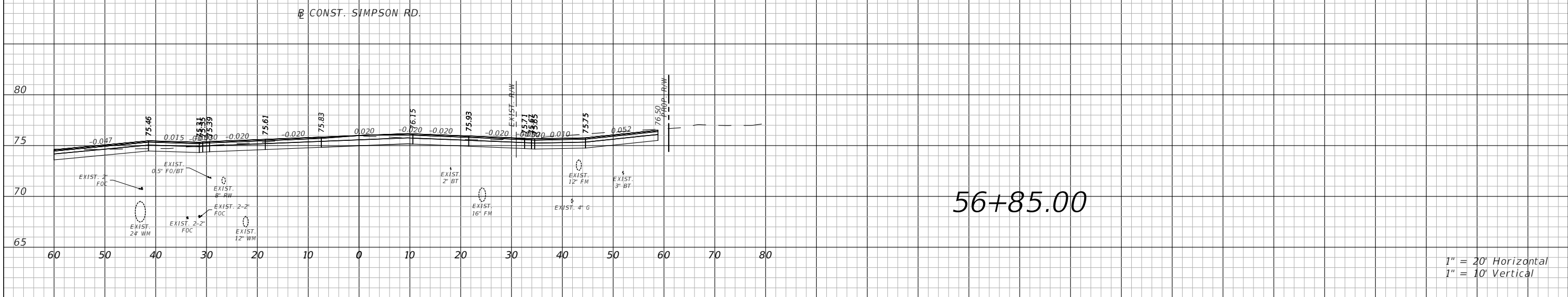
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58+00.00



57+50.00



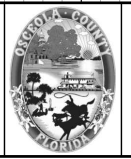
56+85.00

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

REVISIONS			
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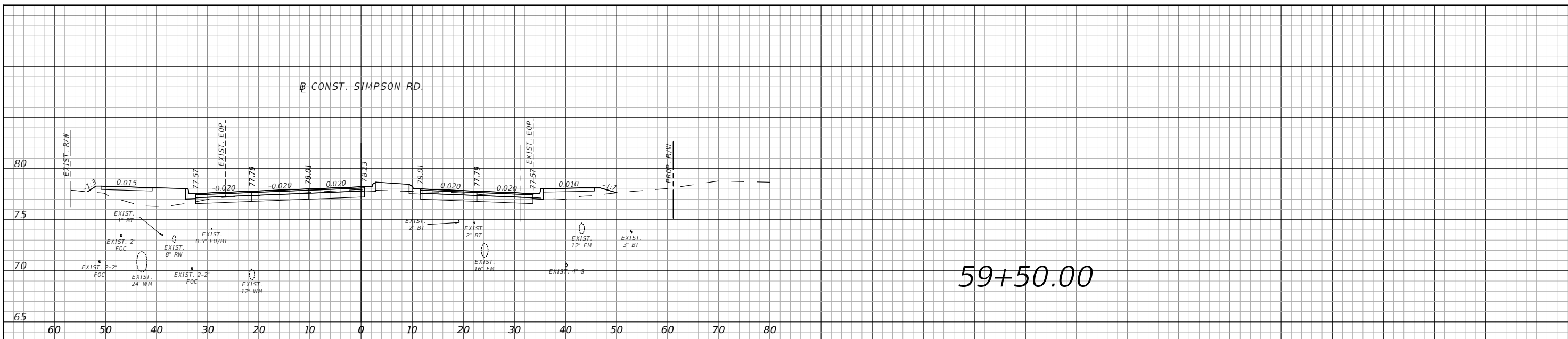


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FLORIDA

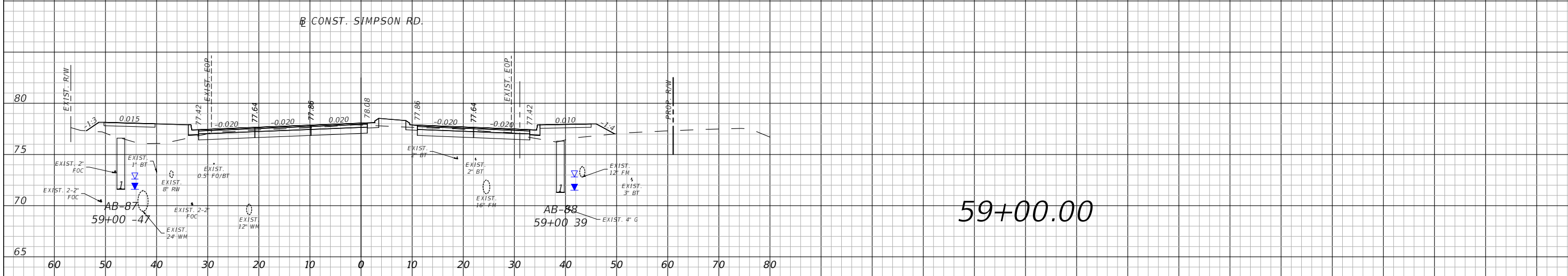
SIMPSON RD CROSS SECTIONS
SHEET 36

SHEET NO.
111

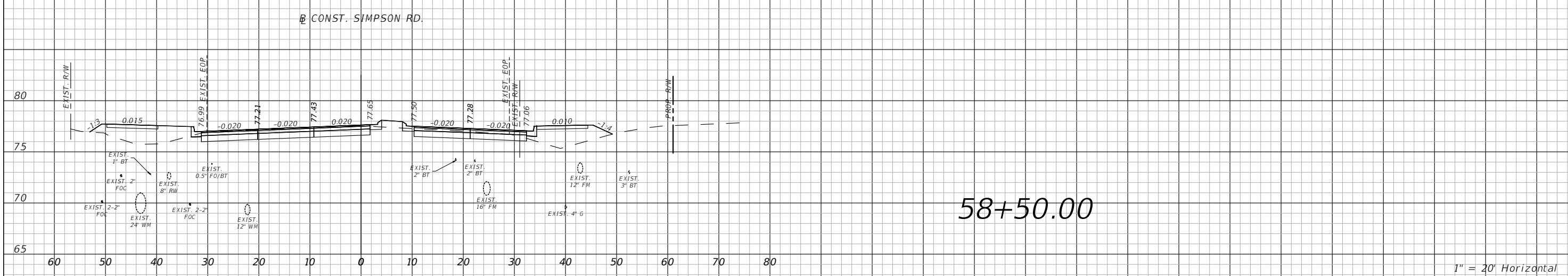
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59+50.00



59+00.00

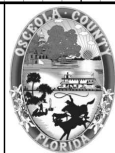


58+50.00

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

REVISIONS			
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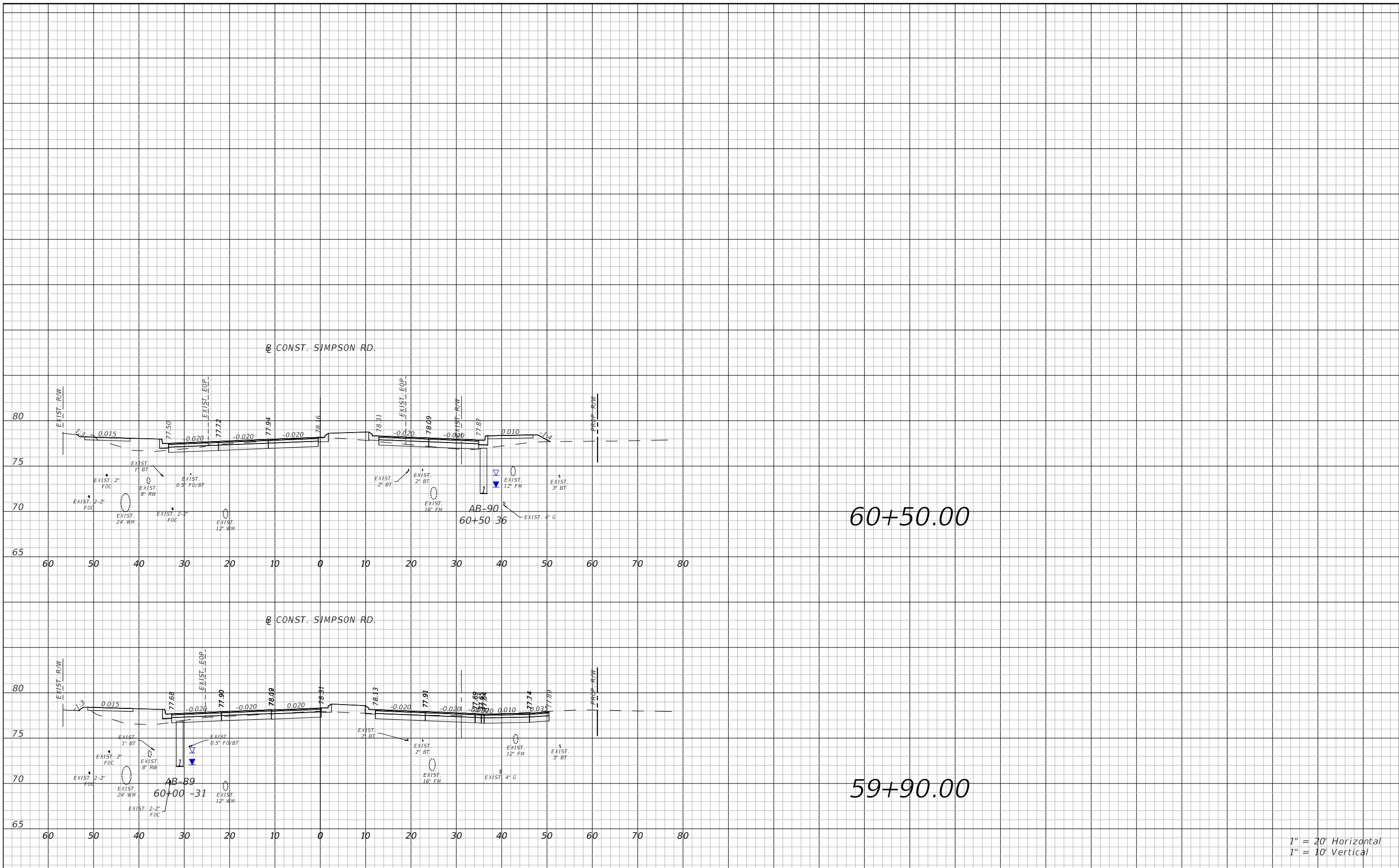
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SIMPSON RD CROSS SECTIONS
SHEET 37

SHEET NO.

112

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PE # 63437

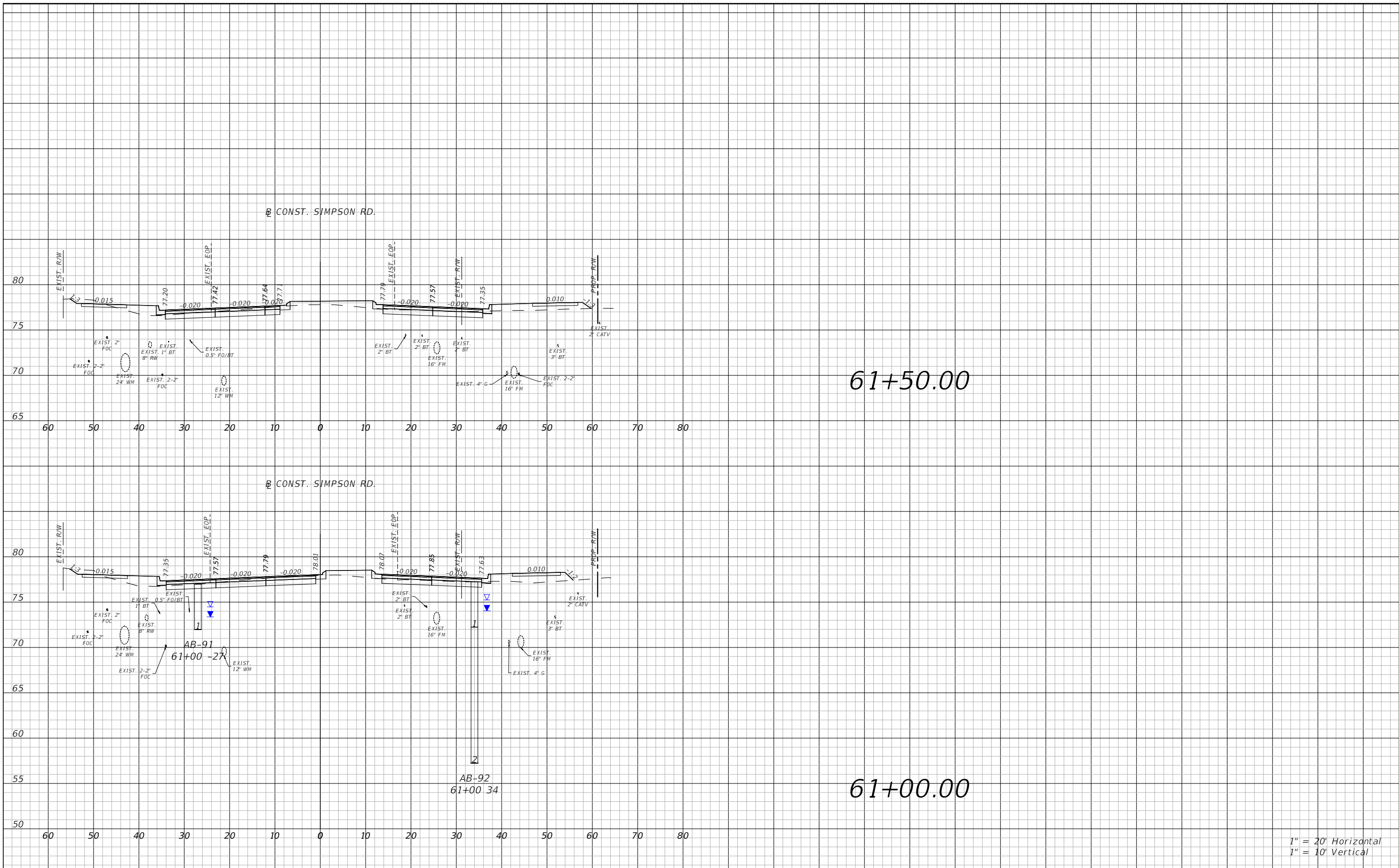


OSCEOLA COUNTY
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SIMPSON RD CROSS SECTIONS
SHEET 38

SHEET NO.
113

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61+50.00

61+00.00

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

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PE # 63437

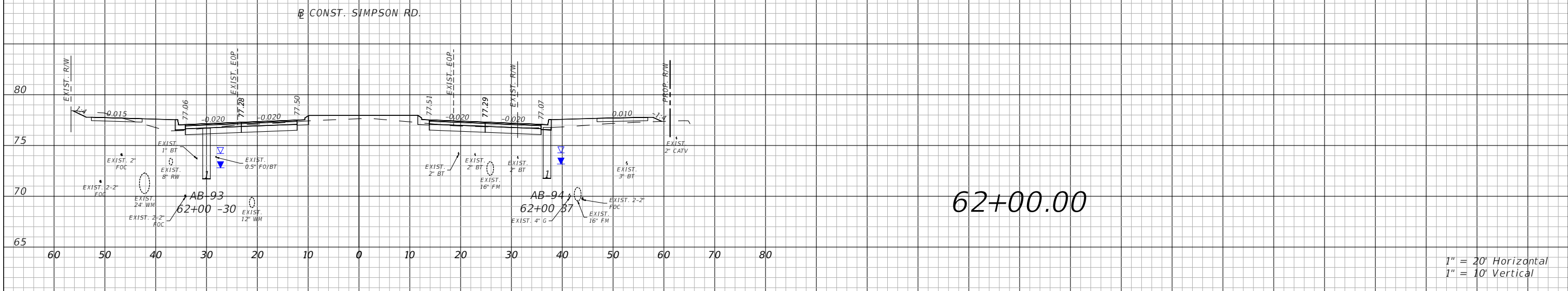
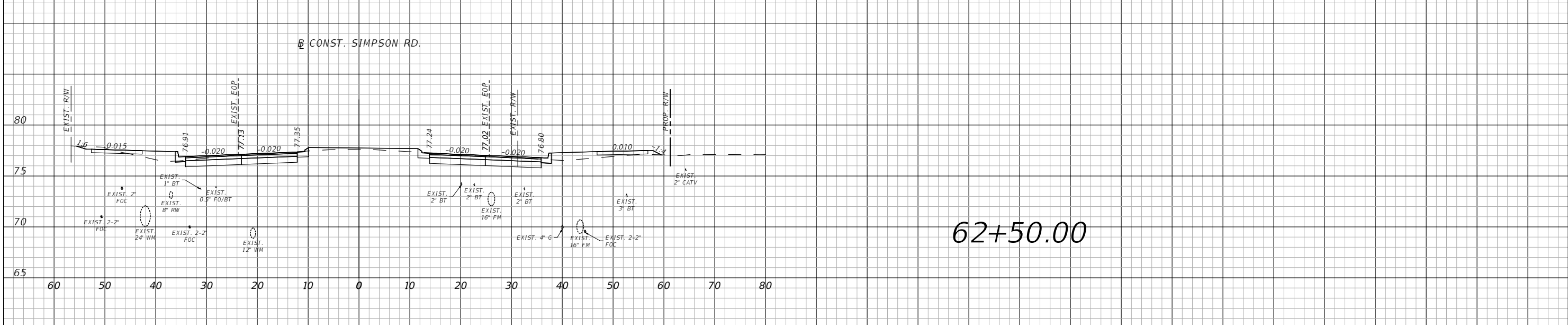
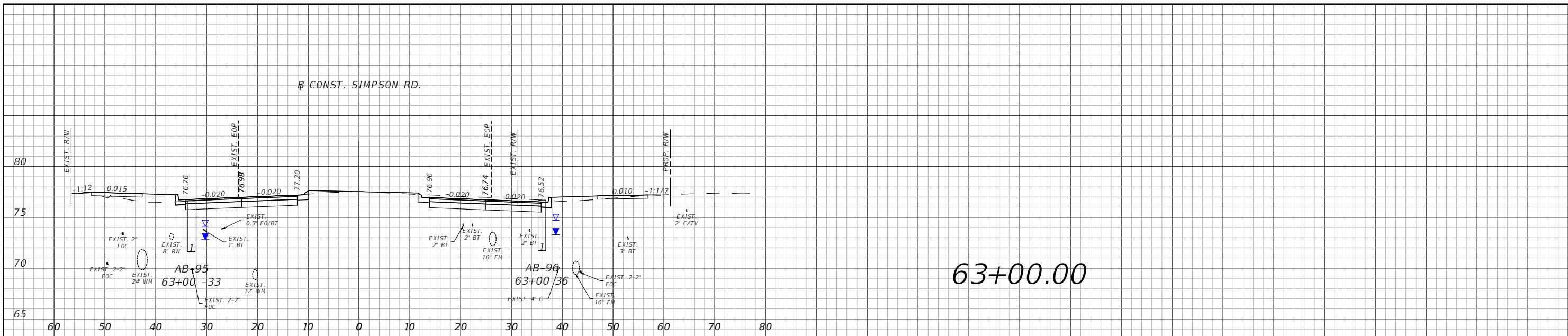


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SIMPSON RD CROSS SECTIONS
SHEET 39

SHEET NO.
114

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

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 PE # 63437

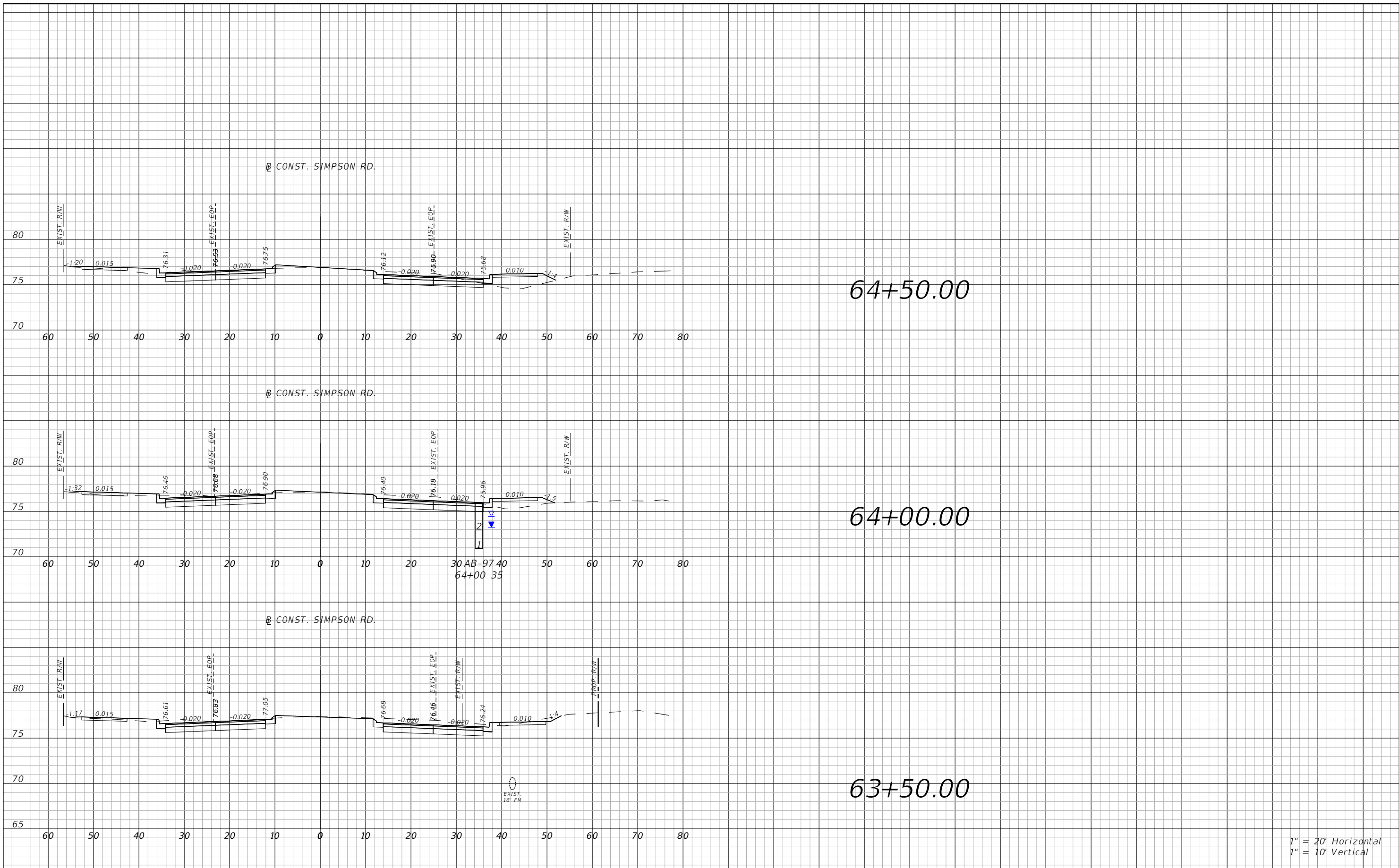


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SIMPSON RD CROSS SECTIONS
SHEET 40

SHEET NO.
115

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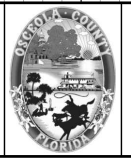


1" = 20' Horizontal
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



Engineers | Scientists
Planners | Designers
225 E. Robinson Street, Suite 300
Orlando, FL 32801 (407)839-4006
Certificate of Authorization # 3932
Mark F. Bertoncini, P.E.
PE # 63437

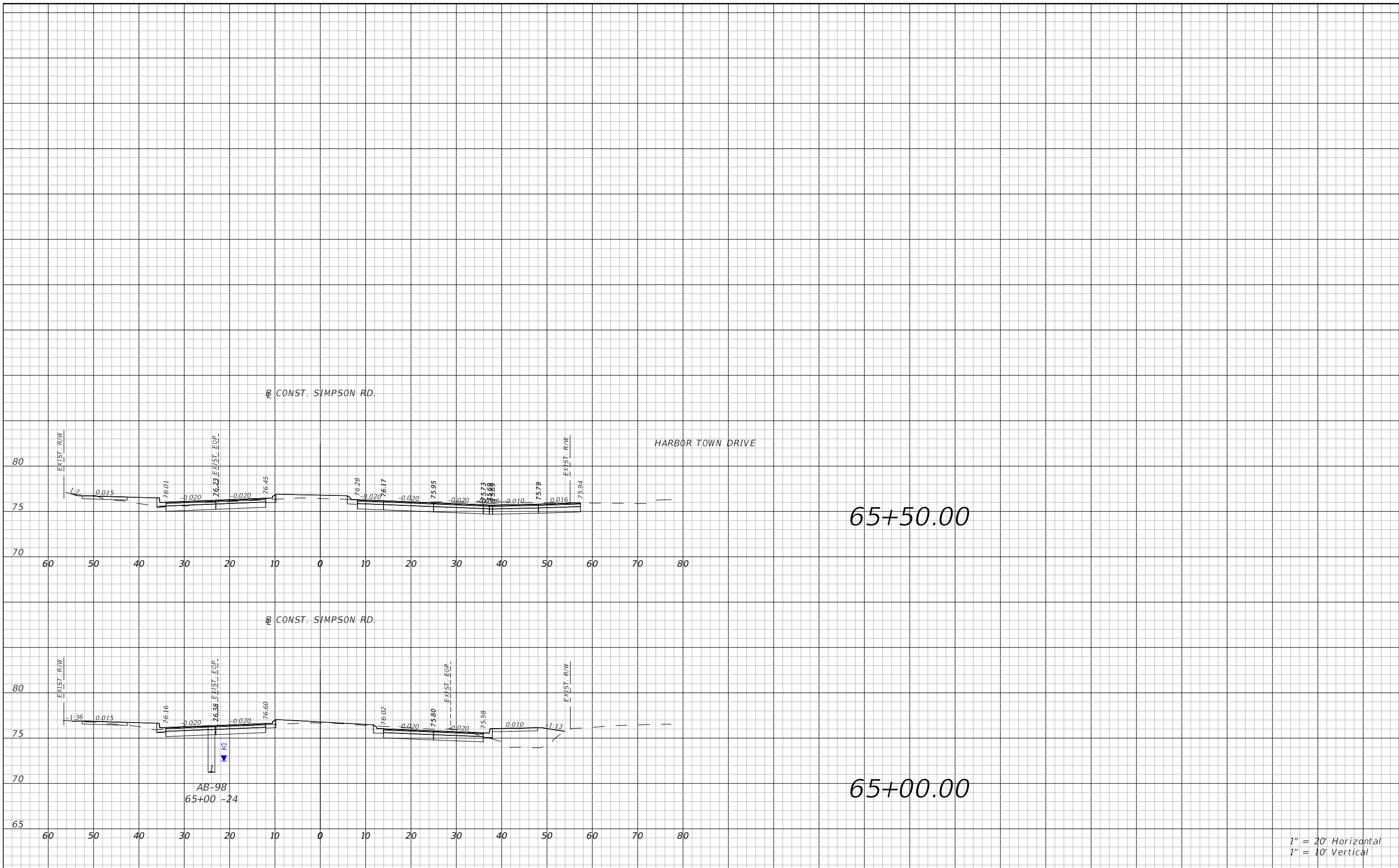


OSCEOLA COUNTY
FLORIDA

SIMPSON RD CROSS SECTIONS
SHEET 41

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.



65+50.00

65+00.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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OSCEOLA COUNTY
FLORIDA

SIMPSON RD CROSS SECTIONS
SHEET 42

SHEET NO.
117

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

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
10+50.00	63.47	14.33	0.00	0.00	0.00	0.00	0.00
11+00.00	60.85	9.79	115.11	22.33	115.11	22.33	92.78
11+50.00	69.78	14.77	120.96	22.74	236.07	45.07	191.00
12+00.00	147.21	15.55	200.92	28.07	436.99	73.14	363.85
12+35.00	87.17	0.33	151.91	10.29	588.91	83.43	505.48
13+00.00	48.48	38.06	163.29	46.21	752.19	129.64	622.55
13+50.00	64.28	41.27	104.41	73.45	856.60	203.09	653.51
14+00.00	59.09	42.34	114.23	77.42	970.82	280.51	690.32
14+60.00	104.90	4.91	182.21	52.50	1153.04	333.00	820.03
15+00.00	52.56	51.67	116.64	41.91	1269.67	374.91	894.76
15+35.00	85.35	14.09	89.39	42.62	1359.06	417.54	941.52
16+00.00	73.00	55.89	190.60	84.24	1549.66	501.77	1047.89
16+50.00	55.95	51.77	119.40	99.68	1669.06	601.45	1067.61
17+00.00	63.14	46.25	110.27	90.76	1779.33	692.21	1087.12
17+60.00	63.53	14.40	140.75	67.39	1920.08	759.60	1160.48
18+00.00	51.00	57.92	84.84	53.57	2004.91	813.17	1191.75
18+35.00	61.69	11.34	73.04	44.89	2077.95	858.06	1219.89
19+00.00	47.58	70.99	131.52	99.10	2209.47	957.16	1252.31
19+35.00	86.57	0.00	86.94	46.01	2296.42	1003.17	1293.25
20+00.00	80.35	45.29	200.92	54.51	2497.34	1057.68	1439.65
20+50.00	95.03	36.63	162.39	75.85	2659.73	1133.54	1526.19

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
21+00.00	59.37	38.68	142.96	69.74	2802.69	1203.28	1599.42
21+50.00	43.60	50.95	95.34	83.00	2898.04	1286.27	1611.76
22+00.00	47.29	51.18	84.16	94.56	2982.20	1380.84	1601.36
22+50.00	46.52	59.05	86.86	102.06	3069.06	1482.90	1586.16
23+00.00	42.89	40.91	82.79	92.56	3151.84	1575.46	1576.39
23+50.00	81.99	35.62	115.64	70.86	3267.48	1646.32	1621.16
24+00.00	10.82	68.98	85.94	96.84	3353.42	1743.16	1610.26
24+50.00	3.85	141.15	13.59	194.56	3367.01	1937.72	1429.29
25+00.00	1.45	180.76	4.91	298.06	3371.92	2235.78	1136.14
25+50.00	1.82	200.36	3.03	352.88	3374.95	2588.67	786.28
26+00.00	0.00	398.71	1.68	554.69	3376.63	3143.35	233.28
26+50.00	0.00	473.91	0.00	807.98	3376.63	3951.33	-574.70
27+00.00	0.00	484.25	0.00	887.19	3376.63	4838.52	-1461.89
27+50.00	0.00	447.99	0.00	863.19	3376.63	5701.70	-2325.07
28+00.00	0.73	367.61	0.68	755.19	3377.31	6456.89	-3079.58
28+50.00	0.00	226.93	0.68	550.50	3377.99	7007.39	-3629.40
29+00.00	1.04	123.22	0.97	324.21	3378.95	7331.60	-3952.65
29+50.00	1.45	83.91	2.31	191.79	3381.26	7523.39	-4142.14
30+00.00	1.27	41.18	2.52	115.82	3383.77	7639.22	-4255.44
30+50.00	0.00	441.57	1.18	446.98	3384.95	8086.20	-4701.25

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION


 Engineers | Scientists
 Planners | Designers
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 Orlando, FL 32801 (407)839-4006
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 PE # 63437



OSCEOLA COUNTY
FLORIDA

SIMPSON RD EARTHWORK
TABULATION SHEET 1

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.

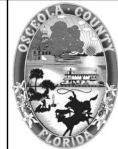
Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
37+00.00	28.08	0.70	0.00	0.00	0.00	0.00	0.00
37+50.00	12.13	30.46	37.23	28.85	37.23	28.85	8.37
38+00.00	0.00	57.02	11.23	81.00	48.46	109.86	-61.40
38+50.00	0.00	128.69	0.00	171.95	48.46	281.81	-233.35
39+00.00	0.00	227.42	0.00	329.73	48.46	611.54	-563.08
39+50.00	0.00	308.55	0.00	496.27	48.46	1107.81	-1059.35
40+00.00	0.00	333.45	0.00	594.44	48.46	1702.25	-1653.79
40+50.00	0.00	323.65	0.00	608.43	48.46	2310.68	-2262.22
41+00.00	0.00	266.23	0.00	546.18	48.46	2856.86	-2808.41
41+50.00	0.00	199.63	0.00	431.35	48.46	3288.21	-3239.75
42+00.00	1.96	240.15	1.82	407.20	50.28	3695.41	-3645.13
42+50.00	1.85	149.14	3.53	360.45	53.81	4055.86	-4002.05
43+00.00	0.00	85.31	1.71	217.09	55.52	4272.95	-4217.43
43+50.00	12.85	37.11	11.90	113.35	67.42	4386.30	-4318.88
43+90.00	65.62	5.86	58.13	31.83	125.55	4418.13	-4292.58
44+50.00	42.71	67.40	120.37	81.40	245.92	4499.52	-4253.61
45+00.00	52.61	41.43	88.27	100.77	334.18	4600.30	-4266.11
45+50.00	81.81	17.72	124.47	54.78	458.65	4655.07	-4196.42
46+00.00	86.80	15.04	156.12	30.34	614.77	4685.41	-4070.64
46+40.00	93.03	9.79	133.21	18.39	747.98	4703.80	-3955.82
47+00.00	74.18	20.25	185.79	33.38	933.77	4737.18	-3803.41
47+50.00	78.46	21.39	141.33	38.56	1075.10	4775.74	-3700.64
48+00.00	71.69	27.82	139.02	45.57	1214.12	4821.30	-3607.18
48+50.00	61.08	35.62	122.94	58.74	1337.06	4880.05	-3542.99
49+00.00	51.33	48.28	104.09	77.69	1441.15	4957.73	-3516.59
49+65.00	76.84	20.81	154.28	83.16	1595.43	5040.90	-3445.47
50+00.00	51.79	25.37	83.37	29.93	1678.80	5070.83	-3392.02
50+50.00	59.80	26.82	103.33	48.32	1782.13	5119.15	-3337.02
51+10.00	58.63	15.62	131.59	47.15	1913.72	5166.30	-3252.58

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
51+70.00	53.42	10.74	124.50	29.29	2038.22	5195.59	-3157.37
52+00.00	43.48	26.94	53.83	20.93	2092.05	5216.52	-3124.47
52+50.00	47.05	22.35	83.82	45.64	2175.87	5262.16	-3086.28
53+00.00	74.03	9.29	112.11	29.30	2287.99	5291.46	-3003.47
53+50.00	65.77	7.68	129.45	15.71	2417.44	5307.17	-2889.73
54+00.00	59.51	12.83	116.00	19.00	2533.44	5326.17	-2792.73
54+40.00	74.00	3.93	98.90	12.42	2632.33	5338.59	-2706.25
55+00.00	57.76	9.66	146.40	15.10	2778.73	5353.69	-2574.96
55+50.00	49.39	14.62	99.21	22.48	2877.94	5376.17	-2498.23
56+00.00	44.60	18.18	87.02	30.37	2964.97	5406.54	-2441.57
56+50.00	50.17	12.86	87.75	28.75	3052.71	5435.29	-2382.58
56+85.00	97.56	0.00	95.75	8.34	3148.46	5443.62	-2295.16
57+50.00	48.58	21.28	175.91	25.61	3324.37	5469.24	-2144.87
58+00.00	46.02	38.71	87.59	55.55	3411.96	5524.78	-2112.83
58+50.00	47.07	46.88	86.20	79.25	3498.15	5604.04	-2105.88
59+00.00	41.08	45.10	81.62	85.17	3579.78	5689.21	-2109.43
59+50.00	35.81	36.33	71.19	75.40	3650.97	5764.61	-2113.64
59+90.00	45.40	27.27	60.15	47.11	3711.12	5811.72	-2100.60
60+50.00	28.58	29.35	82.20	62.91	3793.32	5874.62	-2081.30
61+00.00	40.42	27.18	63.89	52.34	3857.21	5926.96	-2069.76
61+50.00	36.06	27.99	70.81	51.09	3928.02	5978.05	-2050.03
62+00.00	36.01	24.36	66.74	48.48	3994.76	6026.53	-2031.77
62+50.00	47.39	18.63	77.22	39.81	4071.98	6066.33	-1994.35
63+00.00	56.12	13.03	95.84	29.32	4167.82	6095.65	-1927.83
63+50.00	70.84	3.45	117.55	15.27	4285.38	6110.92	-1825.54
64+00.00	61.18	11.47	122.24	13.81	4407.61	6124.73	-1717.12
64+50.00	52.76	20.19	105.50	29.31	4513.11	6154.05	-1640.94
65+00.00	51.30	31.02	96.35	47.42	4609.46	6201.47	-1592.00
65+50.00	76.58	11.42	118.41	39.29	4727.87	6240.76	-1512.89

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



Engineers | Scientists
Planners | Designers
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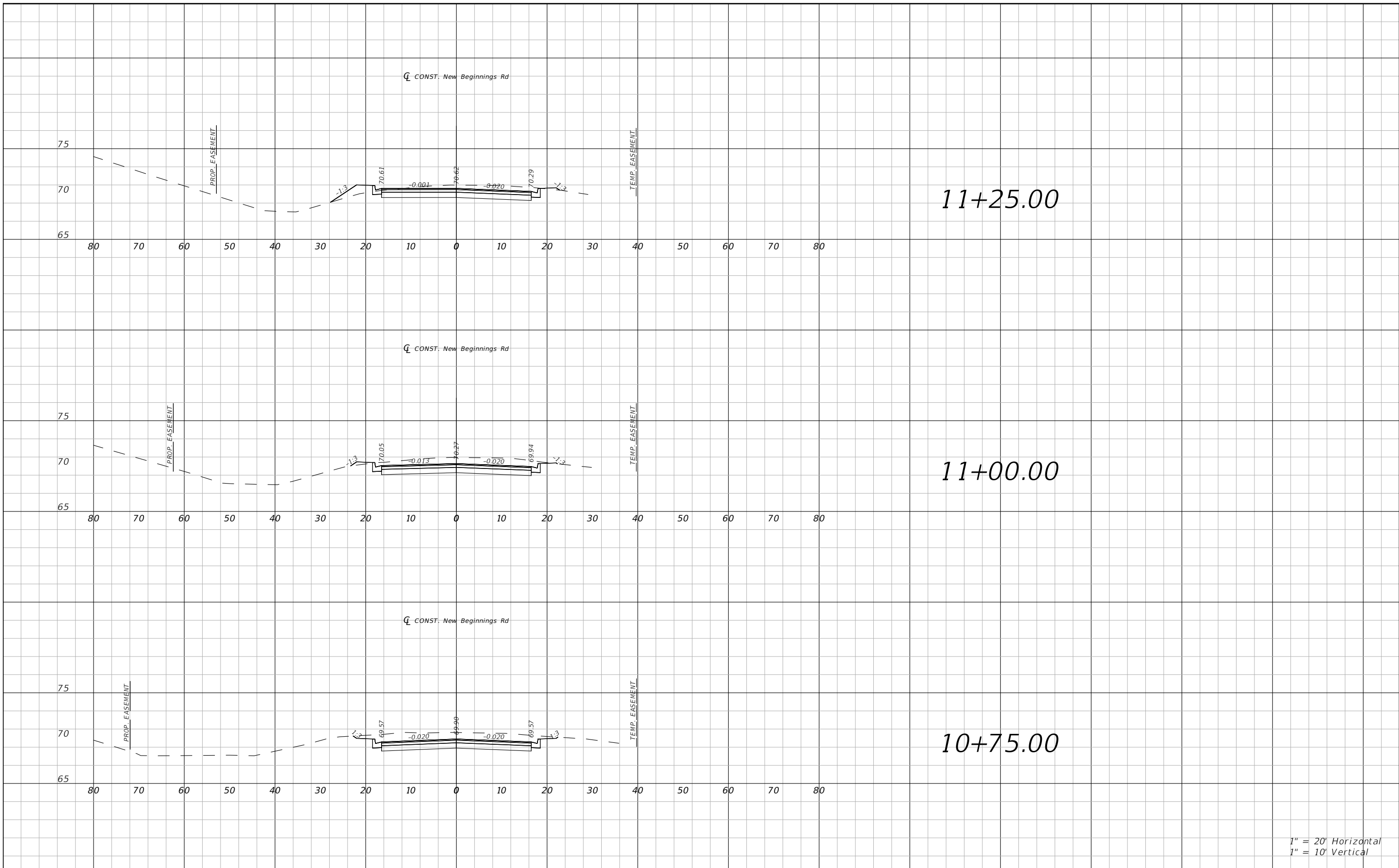


OSCEOLA COUNTY
FLORIDA

**SIMPSON RD EARTHWORK
TABULATION SHEET 2**

SHEET
NO.
119

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



Engineers | Scientists
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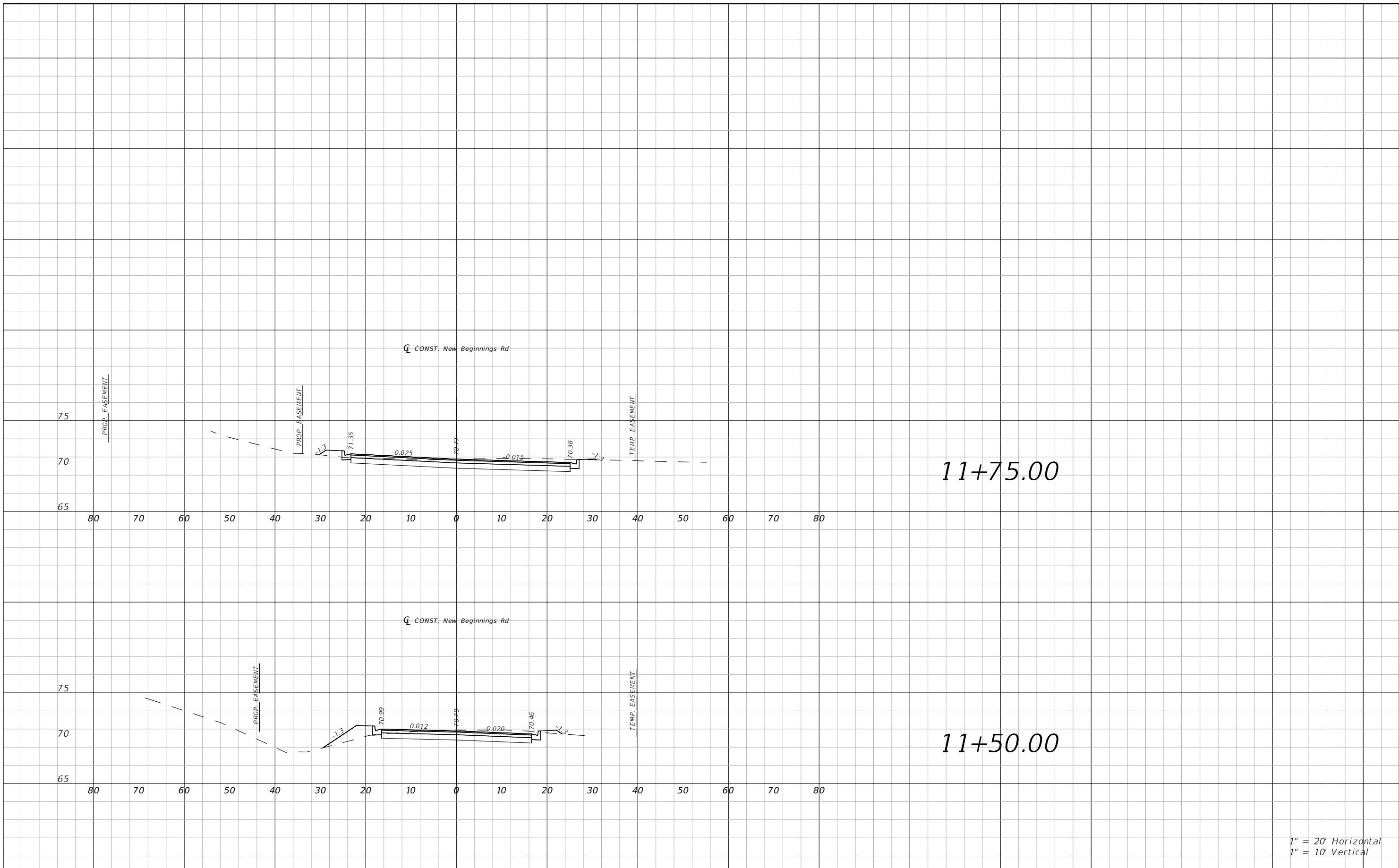


OSCEOLA COUNTY
FLORIDA

**NEW BEGINNINGS RD CROSS
SECTIONS SHEET 1**

SHEET
NO.
120

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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OSCEOLA COUNTY
FLORIDA

**NEW BEGINNINGS RD CROSS
SECTIONS SHEET 2**

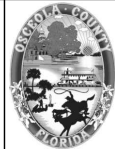
SHEET
NO.
121

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

Total Volume Table							
Station	Cut Area	Fill Area	Cut Vol	Fill Vol	Cum Cut Vol	Cum Fill Vol	Net Vol
10+75.00	67.44	0.00	0.00	0.00	0.00	0.00	0.00
11+00.00	59.55	1.03	58.79	0.47	58.79	0.47	58.32
11+25.00	45.71	6.60	48.73	3.53	107.52	4.00	103.52
11+50.00	36.21	10.98	37.92	8.14	145.45	12.14	133.31
11+75.00	50.36	2.89	40.08	6.42	185.53	18.56	166.96

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION


 Engineers | Scientists
 Planners | Designers
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 PE # 63437



OSCEOLA COUNTY
FLORIDA

NEW BEGINNINGS RD
EARTHWORK TABULATION SHEET

SHEET
NO.
122

DATE OF SURVEY: JUNE, JULY, OCTOBER, NOVEMBER 2020 AND JANUARY 2021
 SURVEY MADE BY: GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC.
 SUBMITTED BY: CHRISTOPHER P. MEYER, P.E.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

ROAD NO.: CR 530 (SIMPSON ROAD)
 COUNTY: OSCEOLA

PROJECT NAME: SIMPSON ROAD WIDENING FROM SR 500 (U.S. 192) TO MYERS ROAD

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADWAY

SURVEY BEGINS STA. : 10+00 SURVEY ENDS STA. : 236+50

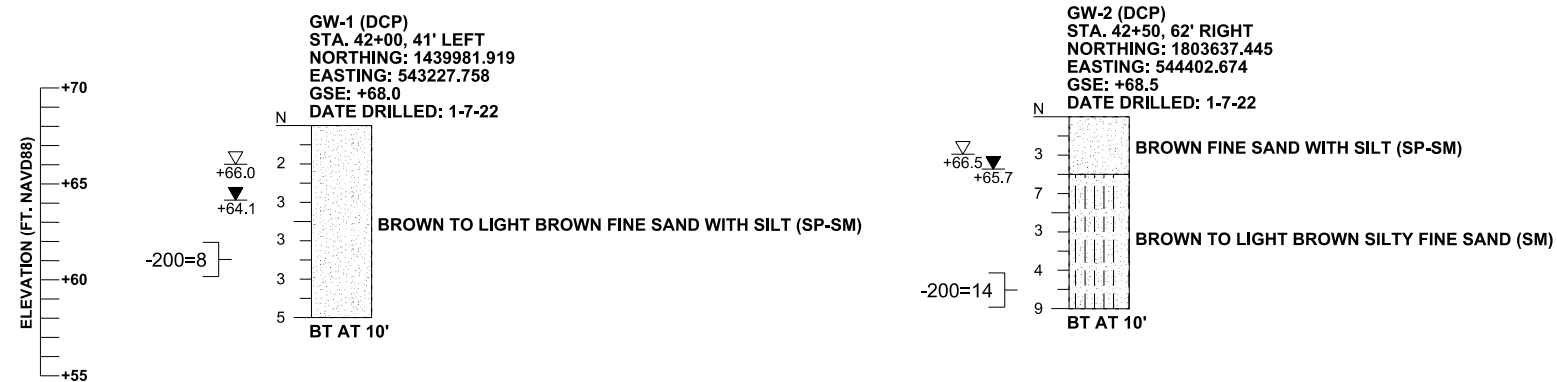
STATIONS REFERENCE: CR 530 CENTERLINE OF CONSTRUCTION

STRATUM NO.	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)					ATTERBERG LIMITS (%)			AASHTO GROUP	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	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	1	1.8	1	24	55(FULL) 2(-200)	95-100	86-100	55-100	24-78	3-11	0	-	-	A-3	LIGHT BROWN TO BROWN TO LIGHT GRAY TO GRAY FINE SAND TO FINE SAND WITH SILT, OCCASIONAL TRACE ORGANIC MATERIAL, LIMEROCK, ROOTS AND LITTLE CEMENTED SAND	7	7,800-20,000	15-45	<6-57	4.9-7.8
2	8	3.1-4.5	10	16-39	52(FULL)	92-100	84-100	71-99	38-80	10-20	2	NP	NP	A-2-4 (-200≤20%)	LIGHT BROWN TO BROWN TO DARK BROWN TO LIGHT GRAY TO GRAY TO DARK GRAY FINE SAND WITH SILT TO SILTY FINE SAND, OCCASIONAL TRACE ORGANIC MATERIAL, ROOTS AND LIMEROCK	7	9,300-23,000	<15-30	<6-12	5.6-8.0
3	0	-	3	19-22	4(FULL) 3(-200)	100	99	97-98	74-80	21-24	3	NP-22	NP-3	A-2-4 (-200>20%)	LIGHT BROWN TO BROWN TO GRAY SILTY FINE SAND, OCCASIONAL TRACE CLAY	1	11,000	45	<6	5.6
4	0	-	6	10-22	5(FULL) 1(-200)	100	99-100	81-99	56-81	23-29	6	27-38	11-23	A-2-6	LIGHT BROWN TO LIGHT GRAY TO GRAY CLAYEY FINE SAND	0	-	-	-	-
5	0	-	1	18	1(FULL)	100	100	99	90	64	1	41	28	A-7-6	GRAY TO BROWN SANDY CLAY TO CLAY	0	-	-	-	-
6	12	5.2-58	12	26-164	12(FULL)	87-100	80-100	71-98	51-82	13-62	0	-	-	A-8	BROWN TO DARK BROWN MUCKY FINE SAND TO SANDY MUCK, OCCASIONAL LIMEROCK	0	-	-	-	-
7	0	-	0	0	-	-	-	-	-	-	0	-	-	-	LIGHT BROWN LIMEROCK	0	-	-	-	-

NOTES

- STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING LOCATION ONLY. ANY STRATUM CONNECTING LINES THAT ARE SHOWN ARE FOR ESTIMATING EARTHWORK ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4. FOR FURTHER DETAILS SEE SECTION 120-3.
- GROUNDWATER LEVEL SHOWN ▼ WHERE ENCOUNTERED AT TIME OF SURVEY. GROUNDWATER NOT ENCOUNTERED SHOWN AS "GNE". ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL SHOWN AS ▽ IF ESTIMATED AT OR ABOVE THE BOTTOM OF THE BORING PROFILE ELEVATION.
- REMOVAL OF MUCK AND PLASTIC MATERIAL OCCURRING WITHIN ROADWAY SHALL BE ACCOMPLISHED IN ACCORDANCE WITH INDEX 120-002 UNLESS OTHERWISE SHOWN ON THE PLANS. THE MATERIAL USED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH INDEX 120-001.
- SOIL ANALYSIS INCLUDES DATA FROM ROADWAY AND POND BORINGS.
- THE SYMBOL "-" REPRESENTS AN UNMEASURED PARAMETER.
- STRATA 1, 2 AND 3 SHALL BE TREATED AS SELECT (S) MATERIAL IN ACCORDANCE WITH INDEX 120-001.
- STRATUM 4 SHALL BE TREATED AS PLASTIC (P) MATERIAL IN ACCORDANCE WITH INDEX 120-001.
- STRATUM 5 SHALL BE TREATED AS HIGH PLASTIC (H) MATERIAL IN ACCORDANCE WITH INDEX 120-001.
- STRATUM 6 SHALL BE TREATED AS MUCK (M) MATERIAL IN ACCORDANCE WITH INDEX 120-001.
- STRATUM 7 WILL REQUIRE PULVERIZATION PRIOR TO USE AS FILL. STRATUM 7 SHALL BE TREATED AS SELECT (S) MATERIAL IN ACCORDANCE WITH INDEX 120-001.
- STRATA 2 AND 3 MAY RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT.
- LAYERS OF VERY HARD MATERIAL SUCH AS HARDPAN, CEMENTED SAND, ETC. MAY BE ENCOUNTERED IN VARIOUS AREAS OF THE PROJECT. SUCH MATERIALS WILL BE DIFFICULT TO EXCAVATE OR PENETRATE. THE CONTRACTOR SHALL EXPECT TO ENCOUNTER THESE VERY HARD MATERIALS IN ALL EXCAVATIONS AND SHALL USE SPECIALIZED EQUIPMENT AND/OR PROCEDURES AS NECESSARY TO FACILITATE EXCAVATION AND/OR PENETRATION.

REVISIONS				CHRISTOPHER P. MEYER, P.E. P.E. LICENSE NUMBER 49328 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 2510 MICHIGAN AVENUE, SUITE D KISSIMMEE, FL 34744-1933	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			ROADWAY SOIL SURVEY	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						CR 530	OSCEOLA		



LEGEND

- GSE GROUND SURFACE ELEVATION (FT. NAVD88)
 - N STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT
 - HA HAND AUGERED FOR UTILITY CLEARANCE
 - ▽ +66.0 ESTIMATED SEASONAL HIGH GROUNDWATER ELEVATION (FT. NAVD88)
 - ▽ +64.1 ENCOUNTERED GROUNDWATER ELEVATION (FT. NAVD88) 24 HRS. AFTER DATE DRILLED
 - BT BORING TERMINATED AT DEPTH INDICATED
 - 200= PERCENT PASSING NO. 200 U.S. STANDARD SIEVE
- SAND SAND AND SILT

GENERAL NOTES

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

THE DYNAMIC CONE PENETROMETER (DCP) TEST BORINGS WERE PERFORMED IN GENERAL ACCORDANCE WITH "DYNAMIC CONE FOR SHALLOW IN-SITU PENETRATION TESTING, VANE SHEAR AND CONE PENETRATION TESTING OF IN-SITU SOILS", ASTM STP 399, 1966.

THE "N" VALUES SHOWN FOR THE DCP TEST BORING REPRESENT APPROXIMATE STANDARD PENETRATION RESISTANCE, BLOWS PER FOOT CORRELATED FROM MEASURED DCP RESISTANCE, BLOWS PER 1.75 INCHES OF PENETRATION. THE CORRELATION OF DCP TO SPT "N" VALUES IS BASED ON THE CALIBRATION CURVE FOR COASTAL PLAINS SOILS, ASTM SPT 399, 1966.

BORING LOCATIONS WERE ESTABLISHED IN THE FIELD USING A SUB-METER ACCURACY TRIMBLE GPS UNIT. BORING ELEVATIONS ARE BASED ON CROSS SECTIONS.

ACCORDING TO THE FDEP SEPTEMBER 2017 POTENTIOMETRIC CONTOURS MAP, THE POTENTIOMETRIC SURFACE OF THE FLORIDA AQUIFER IN THE VICINITY OF THE SUBJECT INTERSECTIONS IS APPROXIMATELY +50 FEET NGVD. THE CONTRACTOR SHALL BE PREPARED TO HANDLE ARTESIAN HEAD LEVELS UP TO +50 FEET NGVD.

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


SECTION: 19
 TOWNSHIP: 25 SOUTH
 RANGE: 30 EAST

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

GRANULAR SOILS	MANUAL HAMMER (SAFETY)	RELATIVE DENSITY
	N VALUE (blows per foot)	
SANDS	0-4	VERY LOOSE
	4-10	LOOSE
	10-30	MEDIUM DENSE
	30-50	DENSE
	OVER 50	VERY DENSE

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

FIGURE 5

REVISIONS				CHRISTOPHER P. MEYER, P.E. P.E. LICENSE NUMBER 49328 GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS, INC. 2510 MICHIGAN AVENUE, SUITE D KISSIMMEE, FL 34744-1933		OSCEOLA COUNTY FLORIDA	<i>SPT BORING RESULTS FOR GRAVITY WALLS</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					124

1.0 SITE DESCRIPTION:

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THE PROJECT INVOLVES THE WIDENING AND RECONSTRUCTION OF SIMPSON ROAD TO A MAJOR URBAN ROADWAY. THIS INVOLVES CONSTRUCTING ROADWAY SURFACE, CURB AND GUTTER, SIDEWALKS AND MODIFICATIONS TO THE EXISTING STORMWATER MANAGEMENT SYSTEM. THE PROJECT LIMITS ALONG SIMPSON ROAD ARE FROM SR 500 TO NORTH OF FORTUNE RD., A DISTANCE OF APPROXIMATELY 1.6 MILES.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, PROVIDE A DETAILED SEQUENCE OF CONSTRUCTION FOR ALL CONSTRUCTION ACTIVITIES. FOLLOW THE SEQUENCE OF MAJOR ACTIVITIES DESCRIBED BELOW, UNLESS A SEQUENCE IS PROPOSED THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND TRAPPING SEDIMENT AND IS APPROVED BY THE ENGINEER.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

1. CLEARING AND GRUBBING, EARTHWORK, AND STORM DRAIN CONSTRUCTION FOR THE OUTFALL FROM THE PONDS.
2. CLEARING AND GRUBBING, EARTHWORK FOR POND CONSTRUCTION.
3. STORM DRAIN CONSTRUCTION. CONSTRUCT THE STORM DRAIN PIPE IN THE UPSTREAM DIRECTION.
4. EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF ROADWAY, GRAVITY WALL, CURB, SUBGRADE, BASE, PAVEMENT, AND SIDEWALK.

1.A. AREA ESTIMATES:

TOTAL SITE AREA: 117.55 ACRES

TOTAL AREA TO BE DISTURBED: 21.19 ACRES

1.B. RUNOFF DATA:

RUNOFF COEFFICIENTS:

BEFORE: 0.58

DURING: VARIES FROM 0.58 TO 0.75

AFTER: 0.75

1.C. SOILS DATA: THE RESULTS OF THE SOIL BORINGS ALONG THE PROJECT ARE SHOWN IN THE ROADWAY SOIL SURVEY SHEET(S). IN GENERAL, THE SOILS ARE CLAYEY SANDS.

1.D. OUTFALL INFORMATION:

THERE ARE 3 OUTFALLS.

#1 DESCRIPTION: EXISTING BASS SLOUGH CANAL (BASS SLOUGH BASIN) POND 1 OUTFALL

LOCATION: LATITUDE 28° 18' 15" N, LONGITUDE 81° 21' 31" W

EST. DRAINAGE AREA SIZE: 64.55 ACRES

RECEIVING WATER NAME: BASS SLOUGH BASIN ULTIMATELY TO LAKE TOHOPEKALIGA.

#2 DESCRIPTION: EXISTING OSCEOLA COUNTY POND; POND 2A OUTFALL

LOCATION: LATITUDE 28° 18' 15" N, LONGITUDE 81° 20' 49" W

EST. DRAINAGE AREA SIZE: 39.81 ACRES

RECEIVING WATER NAME: FISH LAKE BASIN ULTIMATELY TO LAKE TOHOPEKALIGA

#3 DESCRIPTION: EXISTING OSCEOLA COUNTY POND; POND 2B OUTFALL

LOCATION: LATITUDE 28° 17' 39" N, LONGITUDE 81° 21' 9" W

EST. DRAINAGE AREA SIZE: 13.19 ACRES

RECEIVING WATER NAME: BASS SLOUGH BASIN ULTIMATELY TO LAKE TOHOPEKALIGA

1.E. SITE MAP:

THE CONSTRUCTION PLANS ARE BEING USED AS THE SITE MAPS. THE LOCATION OF THE REQUIRED INFORMATION IS DESCRIBED BELOW. THE SHEET NUMBERS FOR THE PLAN SHEETS REFERENCED ARE IDENTIFIED ON THE KEY SHEET OF THESE CONSTRUCTION PLANS.

- * DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE MAPS.
- * APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE CROSS SECTION SHEETS AND THE PLAN-PROFILE SHEETS. THERE ARE ALSO POND CROSS SECTIONS PROVIDED.
- * AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN-PROFILE SHEETS, THE CROSS SECTION SHEETS, AND THE POND CROSS SECTION SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.
- * AREAS NOT TO BE DISTURBED: ESSENTIALLY THE WHOLE PROJECT WILL BE DISTURBED DURING CONSTRUCTION.
- * LOCATIONS OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE PLAN-PROFILE SHEETS.
- * LOCATIONS OF PERMANENT CONTROLS: THE STORMWATER POND IS THE PRIMARY PERMANENT STORMWATER MANAGEMENT CONTROL. IT IS SHOWN ON THE POND DETAIL SHEET AND POND CROSS SECTIONS.

* AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION SHEETS, THE PLAN-PROFILE SHEETS AND THE POND DETAIL SHEETS.

* SURFACE WATERS: THERE ARE NO SURFACE WATER IMPACTS WITHIN THE PROJECT LIMITS.

* DISCHARGE POINTS TO SURFACE WATERS: THERE IS ONLY ONE. THIS IS SHOWN ALONG THE POND 1 OUTFALL SHEET AT S-100, WHICH IS TO THE BASS SLOUGH OUTFALL.

1.F. RECEIVING WATERS:

SEE ITEM 1.D. FOR THE OUTFALL LOCATION AND RECEIVING WATER NAMES. THERE IS A WETLAND IMPACT OF 0.02 AC AT APPROXIMATELY STA.25+00. PLEASE REFER TO THE PLAN SHEETS.

2.0 CONTROLS:

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROPOSED STABILIZATION AND STRUCTURAL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TEMPORARY TRAFFIC CONTROL (TTC) PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THE CONSTRUCTION PLANS. WHERE FOLLOWING THE TEMPORARY TRAFFIC CONTROL PLAN OUTLINED IN THESE CONSTRUCTION PLANS, THE CONTRACTOR MAY CHOSE TO ACCEPT THE FOLLOWING GUIDELINES OR MODIFY THEM IN THE SEDIMENT AND EROSION CONTROL PLAN, SUBJECT TO APPROVAL BY THE ENGINEER. AS WORK PROGRESSES, MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATION, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

FOR EACH CONSTRUCTION PHASE, INSTALL PERIMETER CONTROLS AFTER CLEARING AND GRUBBING NECESSARY FOR INSTALLATION OF CONTROLS BUT BEFORE BEGINNING OTHER WORK FOR THE CONSTRUCTION PHASE. REMOVE PERIMETER CONTROLS ONLY AFTER ALL UPSTREAM AREAS ARE STABILIZED.

2.A.1 STABILIZATION PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS, IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

* ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104.

* TURF AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104.

PERMANENT:

* ASPHALT OR CONCRETE SURFACE.

* SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2.A.2 STRUCTURAL PRACTICES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE PROPOSED STRUCTURAL PRACTICES TO CONTROL OR TRAP SEDIMENT AND OTHERWISE PREVENT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE. SEDIMENT CONTROLS SHALL BE IN PLACE BEFORE DISTURBING SOIL UPSTREAM OF THE CONTROL. THE STRUCTURAL PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

TEMPORARY:

* SEDIMENT BARRIERS IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIFICATION SECTION 104.

* INLET PROTECTION IN ACCORDANCE WITH DESIGN STANDARD 102 AND SPECIAL DETAILS SHOWN IN THE TTC PLAN.

* SEDIMENT CONTAINMENT SYSTEM: THE PERMANENT STORMWATER POND WILL BE TEMPORARILY MODIFIED ACCORDING TO THE DETAILS IN THE TTC PLAN.

PERMANENT:

* STORMWATER PONDS.

* SOD.

2.B STORMWATER MANAGEMENT:

SEVERAL STORM DRAIN SYSTEMS WILL BE CONSTRUCTED TO CONVEY RUNOFF TO ONE (1) STORMWATER DETENTION POND. THE FACILITIES HAVE BEEN PERMITTED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND THE COUNTY OF OSCEOLA AND COMPLY WITH APPLICABLE STANDARD PLANS.

2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROPOSED METHODS TO PREVENT THE DISCHARGE OF SOLID MATERIALS, INCLUDING BUILDING MATERIALS, TO WATERS OF THE UNITED STATES. THE PROPOSED METHODS SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER:

* PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.

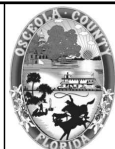
* DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

REVISIONS

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Certificate of Authorization # 3932
Paul W. Yeargain, P.E.
PE # 50682



OSCEOLA COUNTY
FLORIDA

**STORMWATER
POLLUTION
PREVENTION PLAN 1**

SHEET
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* DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

2.C.2 OFF-SITE VEHICLE TRACKING & DUST CONTROL:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROPOSED METHODS FOR MINIMIZING OFFSITE VEHICLE TRACKING OF SEDIMENTS AND GENERATING DUST. INCLUDE IN THE PROPOSED METHODS AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

- * COVERING LOADED HAUL TRUCKS WITH TARPULINS.
- * REMOVING EXCESS DIRT FROM ROADS DAILY.
- * STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO DESIGN STANDARD 106.
- * USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

2.C.3 STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, SANITARY SEWER, OR SEPTIC TANK REGULATIONS:

IN THE SECTION 104 EROSION CONTROL PLAN, DESCRIBE THE PROPOSED PROCEDURES TO COMPLY WITH APPLICABLE STATE AND LOCAL REGULATIONS FOR WASTE DISPOSAL, AND SANITARY SEWER OR SEPTIC SYSTEMS.

2.C.4 FERTILIZERS AND PESTICIDES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 570 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:

IN THE SEDIMENT AND EROSION CONTROL PLAN, PROVIDE A LIST OF TOXIC SUBSTANCES THAT ARE LIKELY TO BE USED ON THE JOB AND PROVIDE A PLAN ADDRESSING THE GENERATION, APPLICATION, MIGRATION, STORAGE, AND DISPOSAL OF THESE SUBSTANCES.

2.D.4 APPROVED STATE AND LOCAL PLANS AND PERMITS:

- * FDEP RULE CHAPTER 62-25 F.A.C.
- * CITY OF NARCOOSSEE ENVIRONMENTAL MANAGEMENT ORDINANCE NUMBER 90-0-0044AA.

3.0 MAINTENANCE:

IN THE SEDIMENT AND EROSION CONTROL PLAN, PROVIDE A PLAN FOR MAINTAINING ALL EROSION AND SEDIMENT CONTROLS THROUGHOUT CONSTRUCTION. THE MAINTENANCE PLAN SHALL AT A MINIMUM, COMPLY WITH THE FOLLOWING:

- * SILT FENCE: MAINTAIN PER SECTION 104. ANTICIPATE REPLACING SILT FENCE ON 12-MONTH INTERVALS.
- * SEDIMENT BARRIERS: REMOVE SEDIMENT AS PER MANUFACTURER'S RECOMMENDATIONS OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS.
- * PONDS ONE AND TWO: THE PONDS ARE TEMPORARY SEDIMENT BASINS UNTIL THE AREAS THAT DRAIN TO THEM ARE STABILIZED, SO UNTIL THEN, REMOVE SEDIMENT FROM THE POND WHEN IT BECOMES 1.5' DEEP AT ANY POINT.

4.0 INSPECTIONS:

QUALIFIED PERSONNEL SHALL INSPECT THE FOLLOWING ITEMS AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.50 INCHES OR GREATER.

TO COMPLY, INSTALL AND MAINTAIN RAIN GAUGES AND RECORD THE DAILY RAINFALL. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, CONDUCT INSPECTION AT LEAST ONCE EVERY MONTH. ALSO, INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORMWATER POLLUTION PREVENTION PLAN.

- * POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
- * POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.
- * DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- * AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- * STRUCTURAL CONTROLS.
- * STORMWATER MANAGEMENT SYSTEMS.
- * LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

INITIATE REPAIRS WITHIN 24 HOURS OF INSPECTIONS THAT INDICATE ITEMS ARE NOT IN GOOD WORKING ORDER.

IF INSPECTIONS INDICATE THAT THE INSTALLED STABILIZATION AND STRUCTURAL PRACTICES ARE NOT SUFFICIENT TO MINIMIZE EROSION, RETAIN SEDIMENT, AND PREVENT DISCHARGING POLLUTANTS, PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

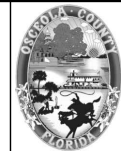
5.0 NON-STORMWATER DISCHARGES:

IN THE SECTION 104 EROSION CONTROL PLAN, IDENTIFY ALL ANTICIPATED NON-STORMWATER DISCHARGES (EXCEPT FLOWS FROM FIRE FIGHTING ACTIVITIES). DESCRIBE THE PROPOSED MEASURES TO PREVENT POLLUTION OF THESE NON-STORMWATER DISCHARGES. IF THE CONTRACTOR ENCOUNTERS CONTAMINATED SOIL OR GROUNDWATER, CONTACT THE COUNTY ENGINEER.

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PE # 50682



OSCEOLA COUNTY
FLORIDA

**STORMWATER
POLLUTION
PREVENTION PLAN 2**

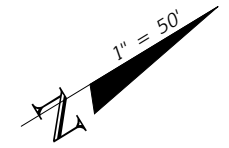
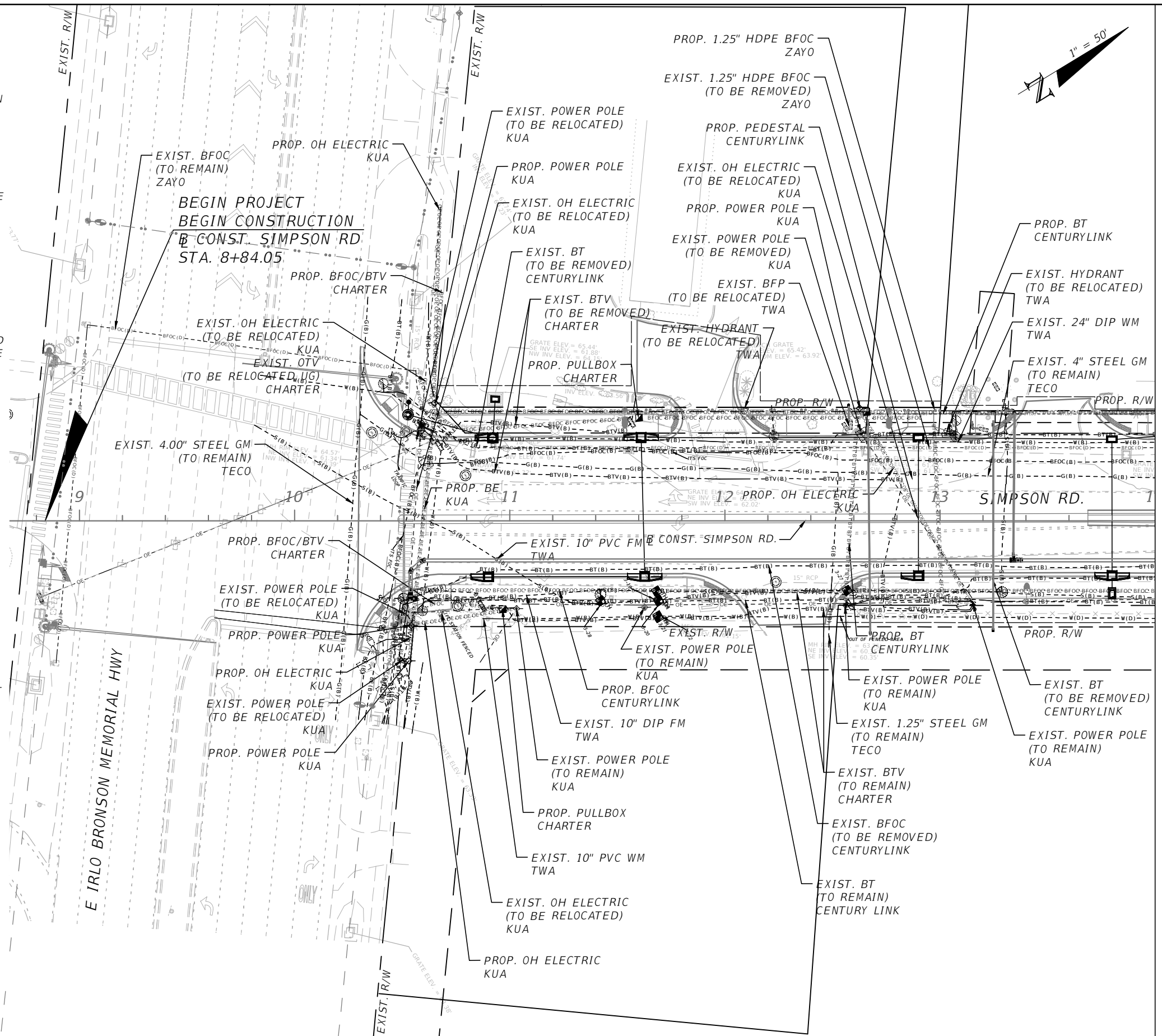
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UTILITY NOTES

- TWO-BUSINESS DAYS PRIOR TO DIGGING THE CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, TELEPHONE NUMBER 1-800-432-4770, AND THE UTILITY OWNER AND REQUEST UTILITY LOCATIONS. A CONTRACTOR'S REPRESENTATIVE MUST BE PRESENT WHEN UTILITY COMPANIES LOCATE THEIR FACILITIES.
 - THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT HAVE ELECTRIC, TELEPHONE, GAS, WATER AND/OR SEWER SERVICE LATERALS WHICH MAY NOT BE SHOWN IN PLANS. THE CONTRACTOR MUST REQUEST THE LOCATION OF THESE LATERAL SERVICES FROM THE UTILITY COMPANIES. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND THESE LATERAL SERVICES MUST BE INCLUDED IN THE BID RELATED ITEM FOR THE WORK BEING DONE.
 - CONTRACTOR SHALL REMOVE BURIED ABANDONED AND OUT OF SERVICE UTILITY LINES WITHIN THE LIMITS OF ALL EXCAVATION. THE COST OF THIS WORK SHALL BE INCIDENTAL TO AND INCLUDED IN THE COST OF THE WORK BEING PERFORMED WHEN THE LINES ARE ENCOUNTERED.
 - ALL STAKING OF PROPOSED CONSTRUCTION TO ALLOW FOR PROPER INSTALLATION/RELOCATION OF UTILITY FACILITIES, AS INDICATED ON THE UTILITY RELOCATION SCHEDULES, SHALL BE PERFORMED BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH THE IMPACTED UTILITIES AND STAKE THE ITEMS REQUESTED. THIS STAKING SHALL BE SEPARATE AND IN ADDITION TO THE NORMAL STAKING FOR THE PROJECT. THE COST OF THIS STAKING SHALL BE INCIDENTAL TO AND INCLUDED IN THE BID PRICE FOR MOBILIZATION, ITEM 101-1.
- | UTILITY OWNER | CONTACT | TELEPHONE NUMBER |
|--|-----------------------------------|---------------------|
| AT&T CORP | GREG JACOBSON | (813) 342-0512 |
| AT&T DISTRIBUTION BRIGHTHOUSE (CHARTER/SPECTRUM) | ALAN REYNOLDS
JONATHAN MCLEROY | (407) 351-8180 |
| CENTURYLINK (EMBARQ) | DAVID ULLO (TERRATECH) | 720-888-1089 |
| CENTURYLINK (LEVEL3) | XAN RYPKEMA | |
| COMCAST COMMUNICATIONS | SCOTT OSEBOLD | |
| CROWN CASTLE | GRUGER WALTER | (215)622-5927 |
| FGT | JOSEPH SANCHEZ | (407) 838-7171 |
| HOTWIRE COMMUNICATIONS | EDDIE MIRANDA | (321) 710-1733 |
| KISSIMEE UTILITY AUTHORITY | FELIX ESCOBAR | 407-933-7777, X6600 |
| SPRINT | JON BAKER | 321-280-9596 |
| SUMMIT BROADBAND | MICHELLE DANIEL | 407-996-1183 |
| TECO | SHAWN WINSOR | 407-420-6663 |
| TOHO | ROBERT PELHAM | 407-944-5132 |
| UNITI FIBER | KEN MCGOVERN | 904-506-7215 |
| VERIZON (MCI) | TIM COLE | 407-618-2078 |
| ZAYO GROUP | TESS BENTAYOU | |
- WHEN INSTALLING RELOCATED UTILITIES, NOTE LOCATION OF NEW LIGHT POLES WHERE SLIGHT DEFLECTIONS WILL BE REQUIRED TO ALLOW FOR THE LIGHT POLE FOUNDATION TO BE PLACED.
 - WHEN POLE HOLDS ARE NEEDED, REQUESTS SHALL BE MADE TO KUA ONE WEEK IN ADVANCE OF THE TIME NEEDED. KUA CONDUCTS POLE HOLDS ON MONDAYS AND FRIDAYS.
 - SEE THE TWA PLANS FOR THE WATERMAIN AND FORCEMAIN UTILITY ADJUSTMENTS.

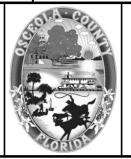


MATCHLINE STA. - 14+00.00

REVISIONS			
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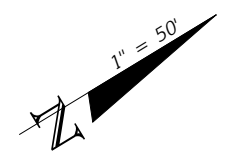


OSCEOLA COUNTY
FLORIDA

SIMPSON RD UTILITY
ADJUSTMENT SHEET 1

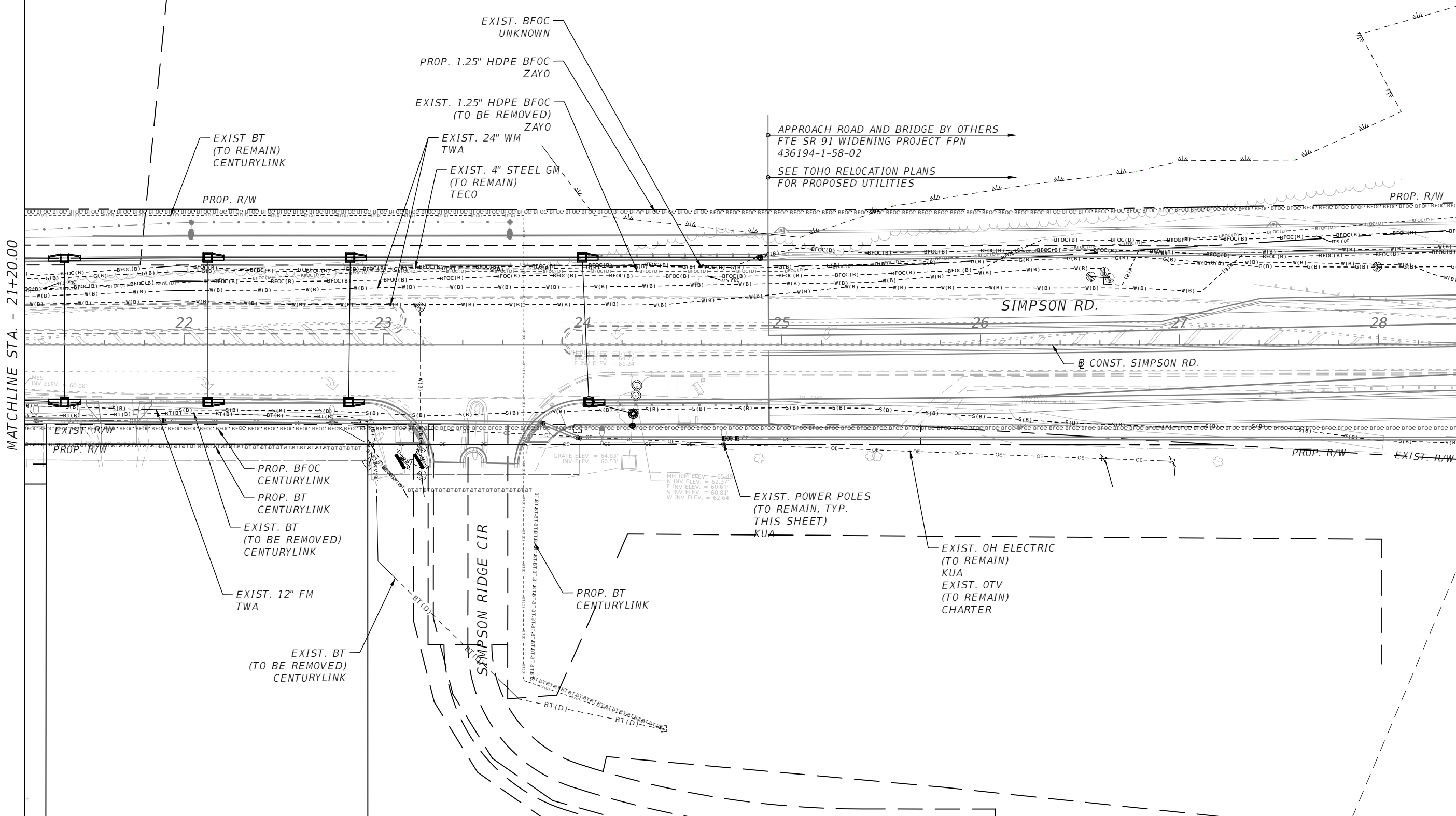
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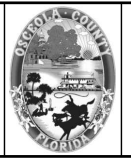
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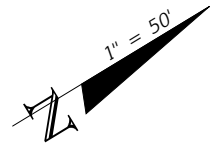


OSCEOLA COUNTY
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**SIMPSON RD UTILITY
ADJUSTMENT SHEET 3**

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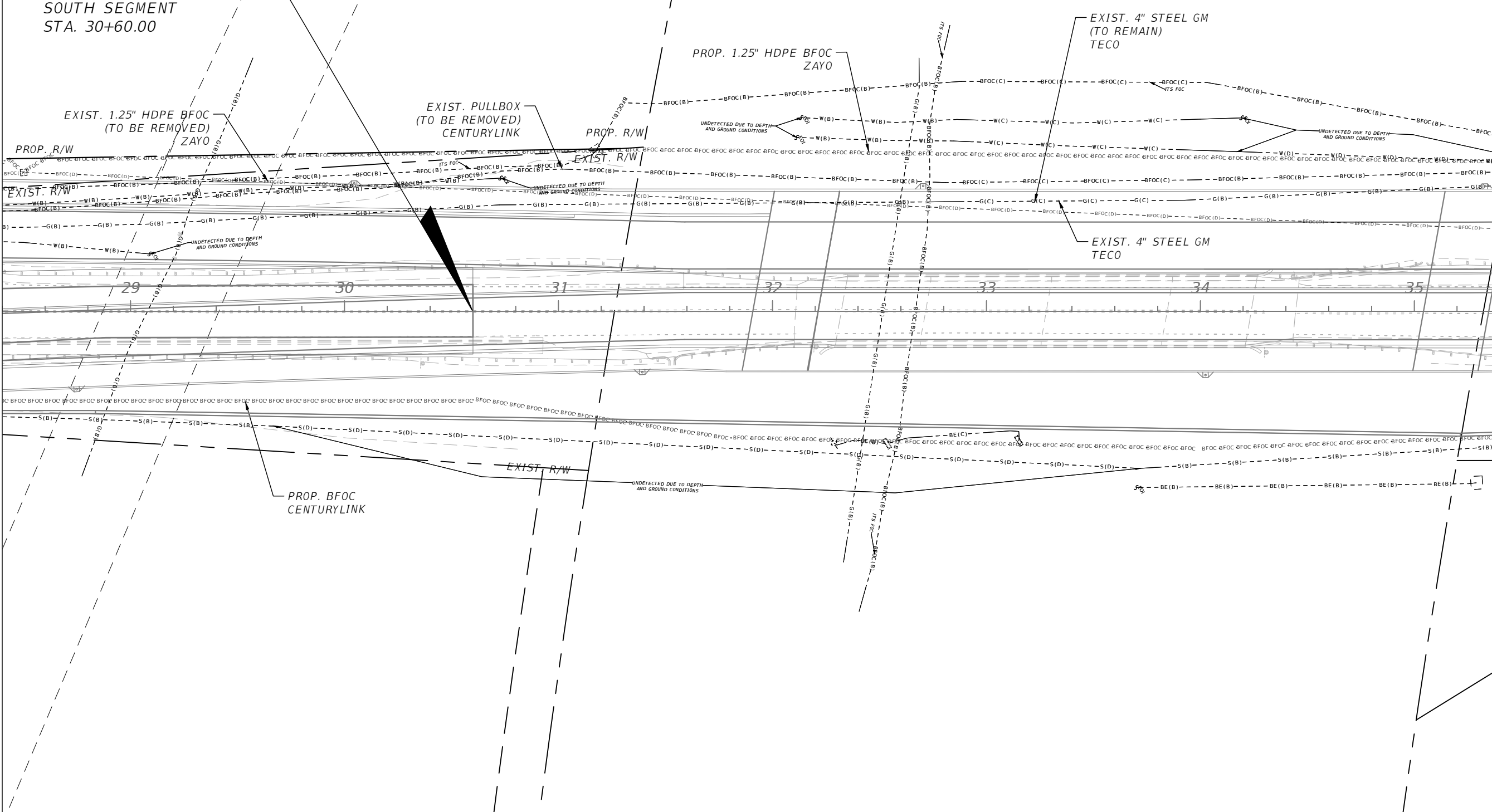
APPROACH ROAD AND BRIDGE BY OTHERS
FTE SR 91 WIDENING PROJECT FPN 436194-1-58-02

SEE TOHO RELOCATION PLANS FOR PROPOSED UTILITIES

END ROADWAY CONSTRUCTION
BY CONST. SIMPSON RD
SOUTH SEGMENT
STA. 30+60.00

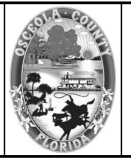
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MATCHLINE STA. - 35+40.00



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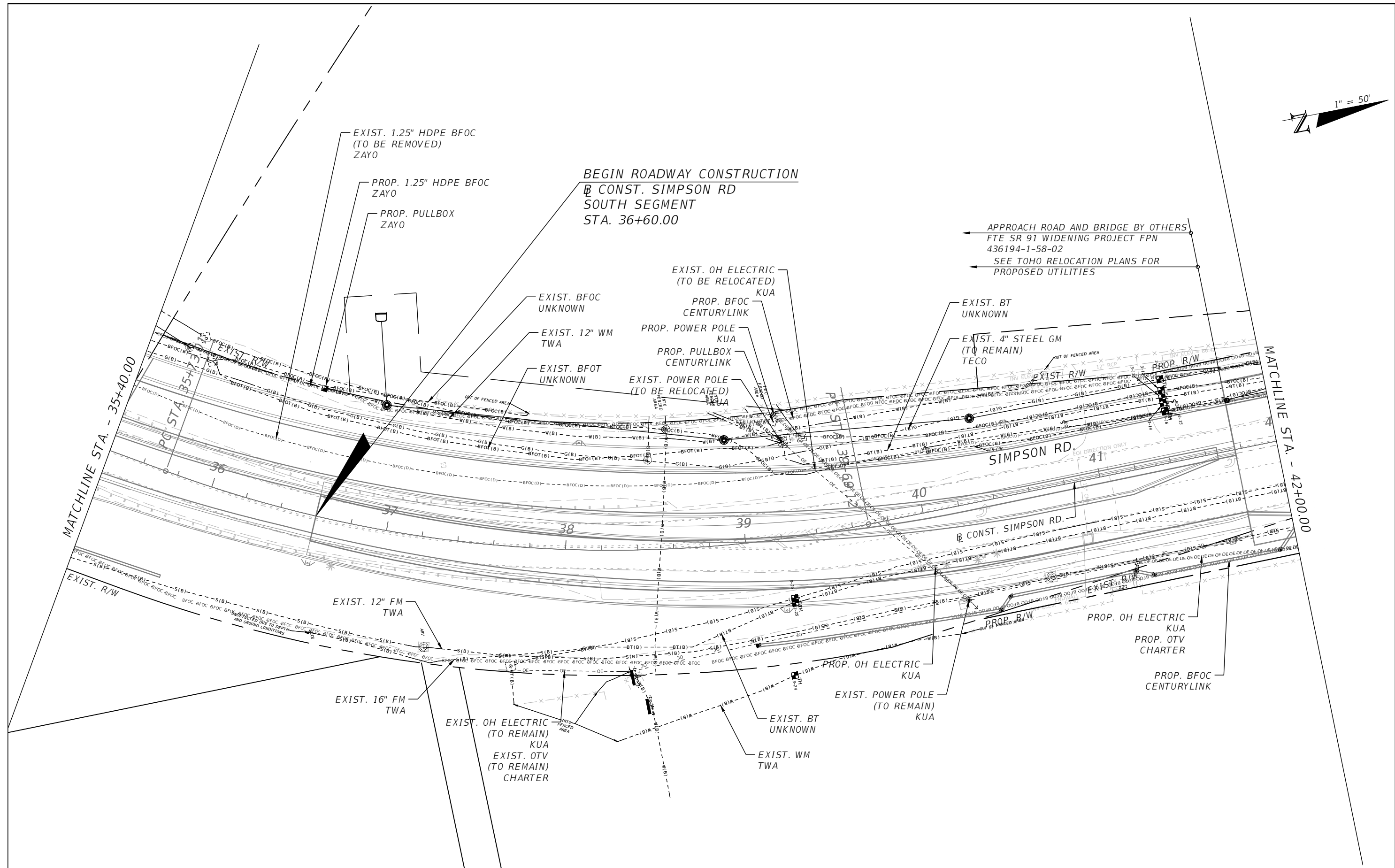
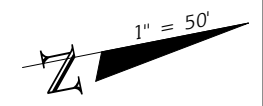


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FLORIDA

SIMPSON RD UTILITY
ADJUSTMENT SHEET 4

SHEET NO.
130

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Mark F. Bertocini, P.E.
PE # 63437

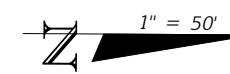


OSCEOLA COUNTY
FLORIDA

**SIMPSON RD UTILITY
ADJUSTMENT SHEET 5**

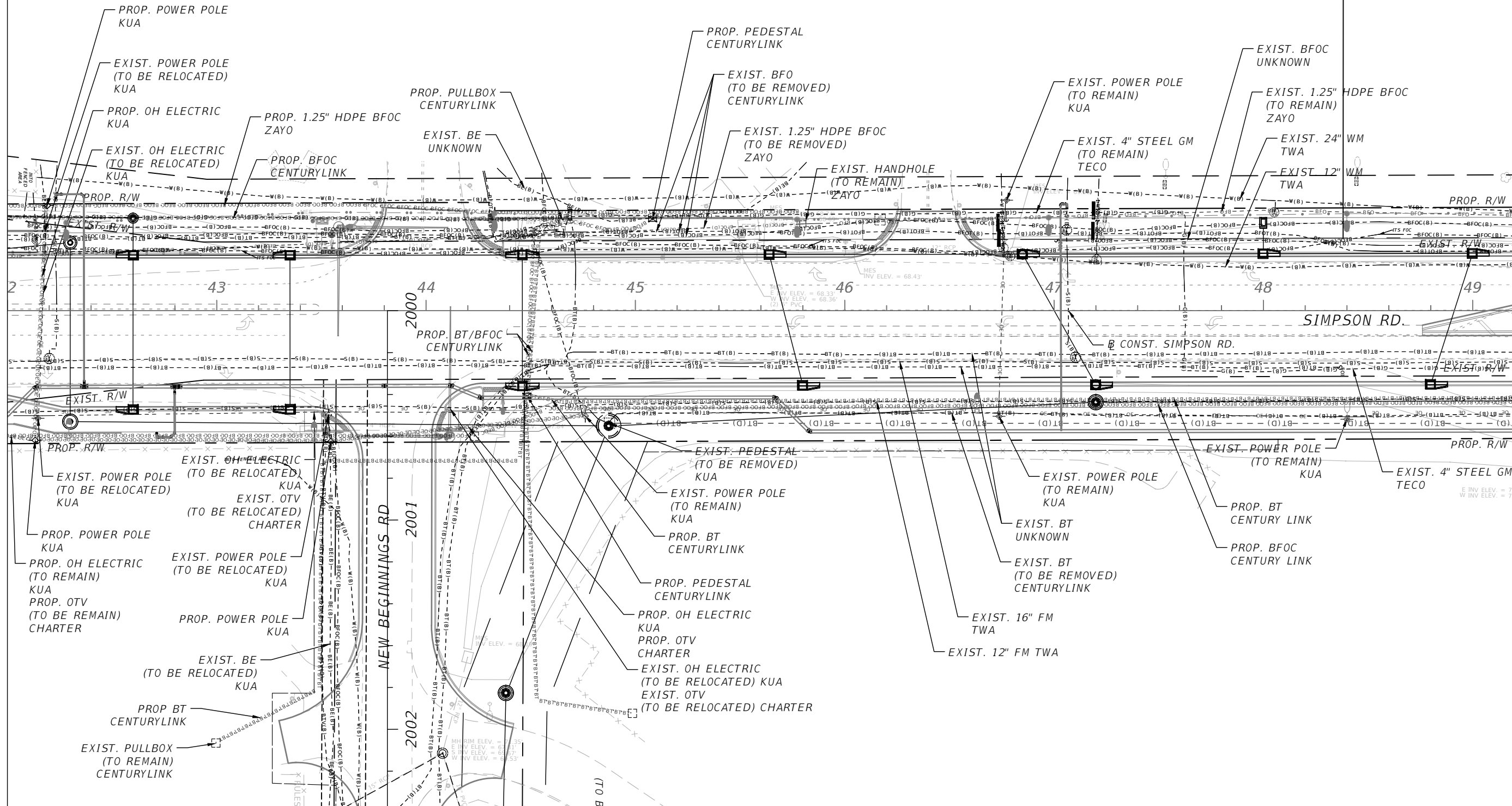
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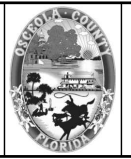
MATCHLINE STA. - 42+00.00

MATCHLINE STA. - 49+20.00



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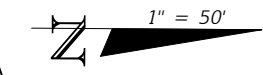


OSCEOLA COUNTY
 FLORIDA

**SIMPSON RD UTILITY
 ADJUSTMENT SHEET 6**

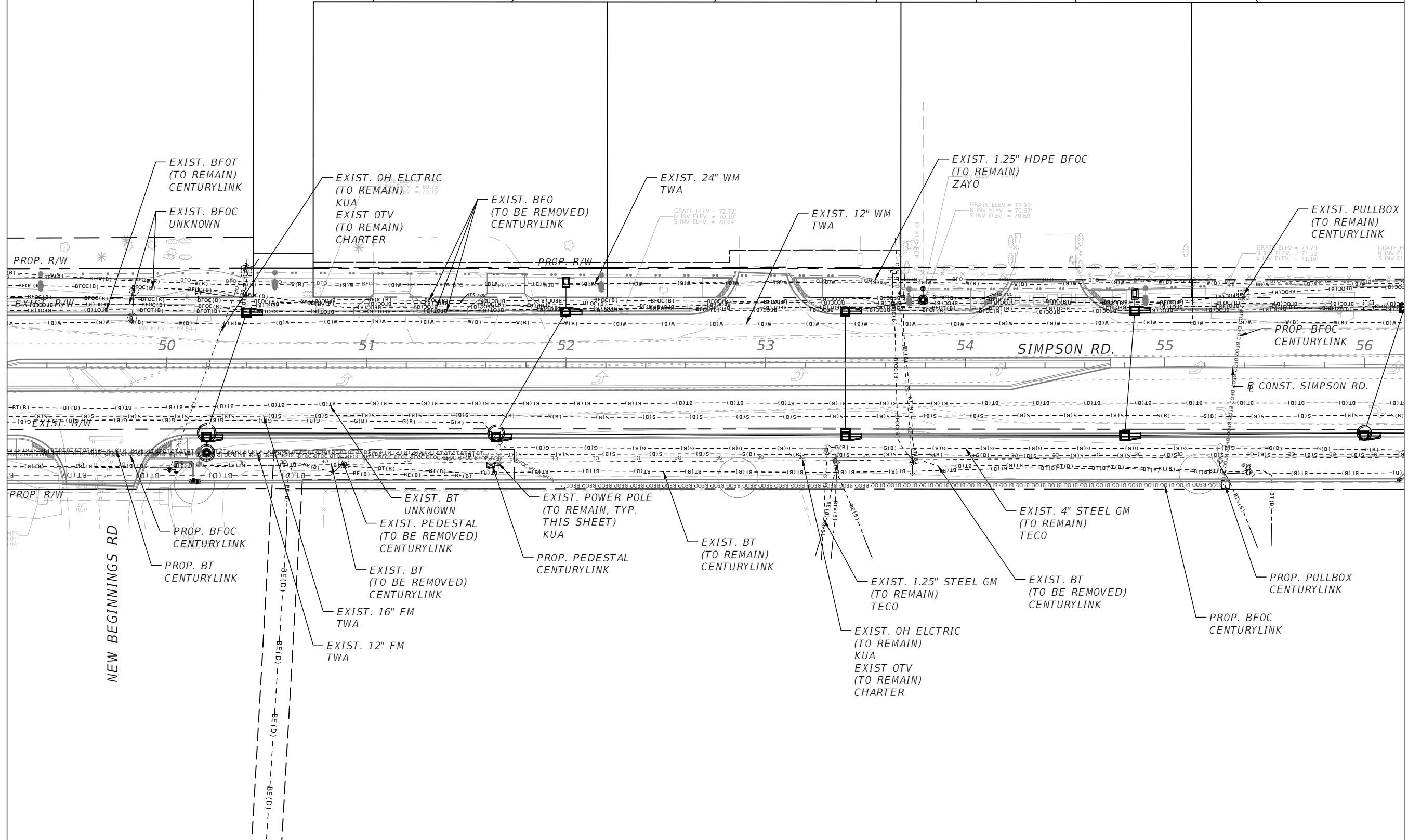
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MATCHLINE STA. - 49+20.00

MATCHLINE STA. - 56+20.00



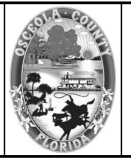
NEW BEGINNINGS RD

SIMPSON RD.

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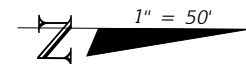


OSCEOLA COUNTY
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**SIMPSON RD UTILITY
ADJUSTMENT SHEET 7**

SHEET
NO.
133

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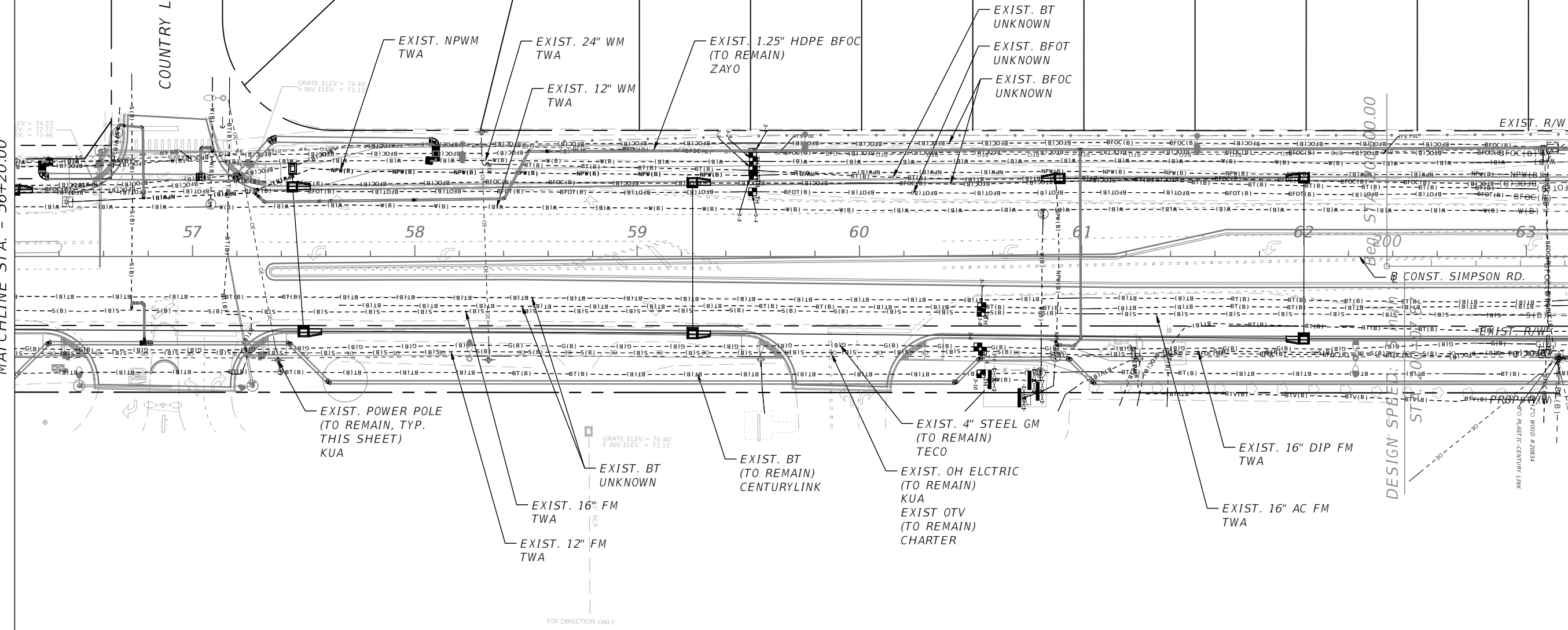


WOODFIELD CT

COUNTRY LANE

MATCHLINE STA. - 56+20.00

MATCHLINE STA. - 63+20.00

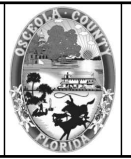


DESIGN SPEED: 20 MPH
ST 56+20.00
ST 63+20.00

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OSCEOLA COUNTY
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SIMPSON RD UTILITY
ADJUSTMENT SHEET 8

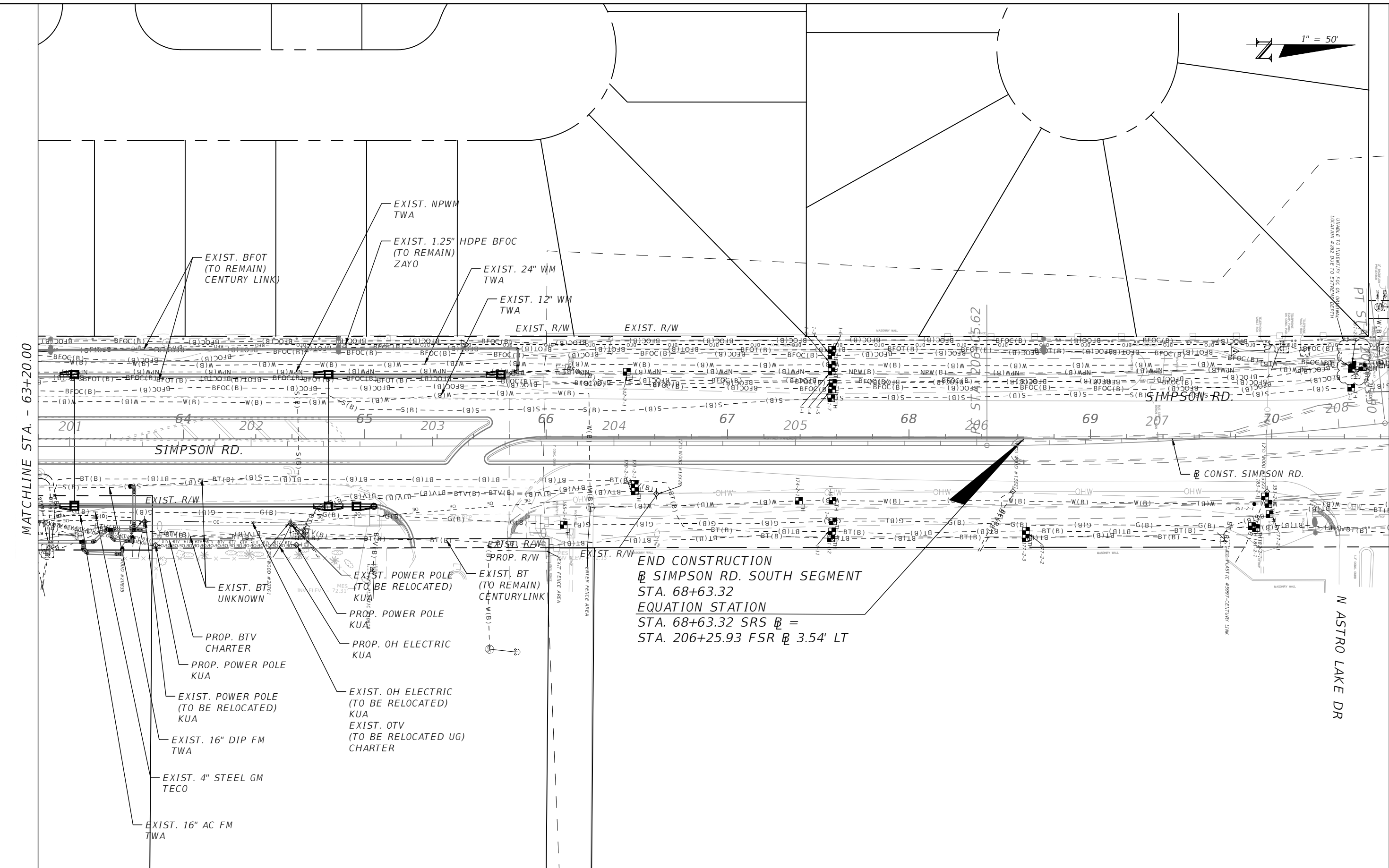
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1" = 50'

MATCHLINE STA. - 63+20.00

N ASTRO LAKE DR



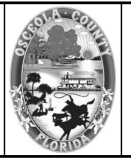
END CONSTRUCTION
 @ SIMPSON RD. SOUTH SEGMENT
 STA. 68+63.32
 EQUATION STATION
 STA. 68+63.32 SRS @ =
 STA. 206+25.93 FSR @ 3.54' LT

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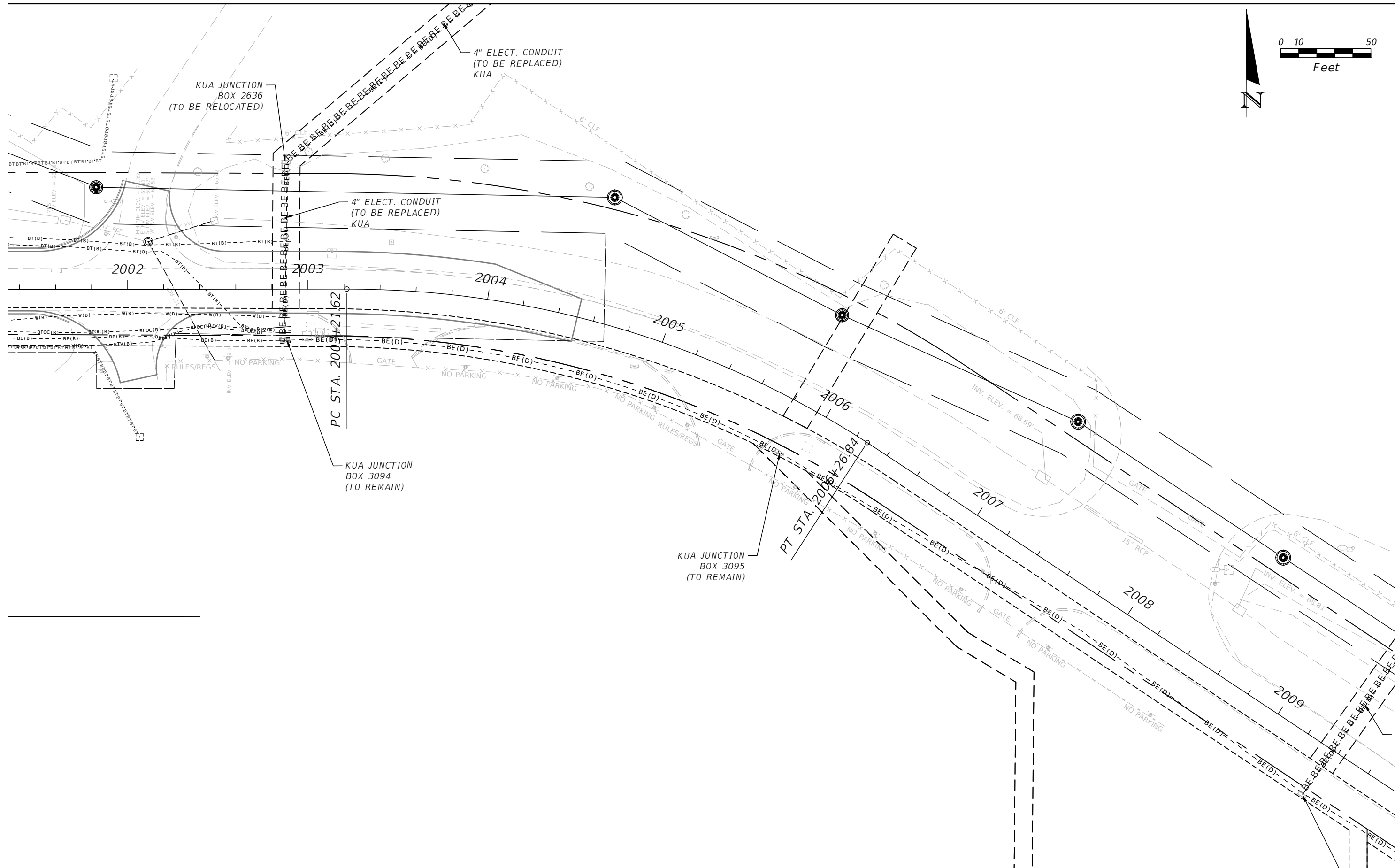
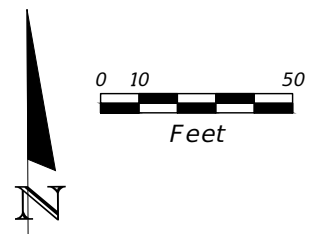


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SIMPSON RD UTILITY
 ADJUSTMENT SHEET 9

SHEET
 NO.
 135

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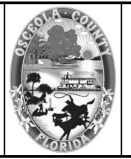


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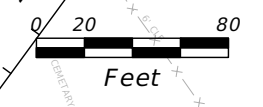
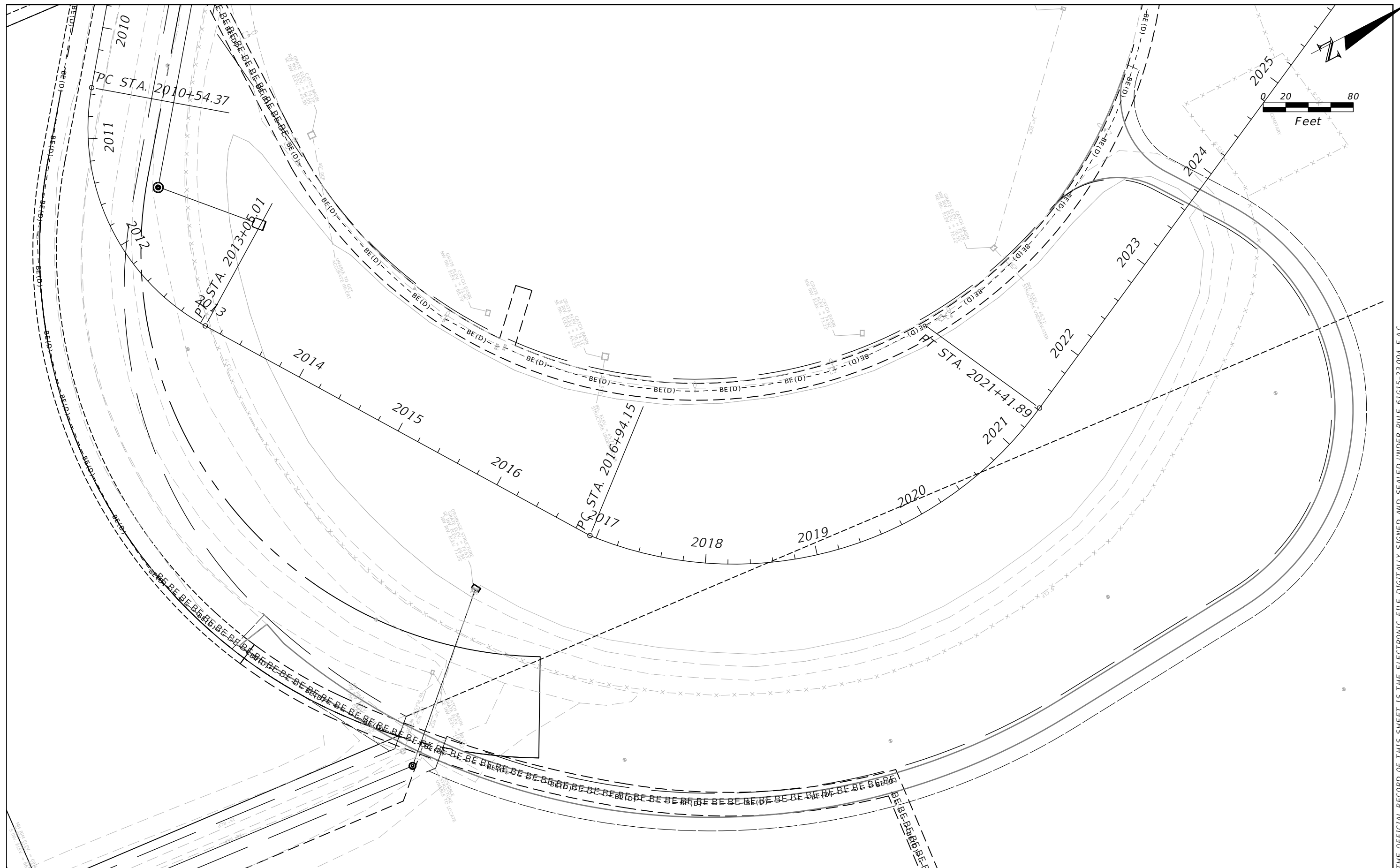
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**SIMPSON RD UTILITY
ADJUSTMENT SHEET 10**

SHEET
NO.
136



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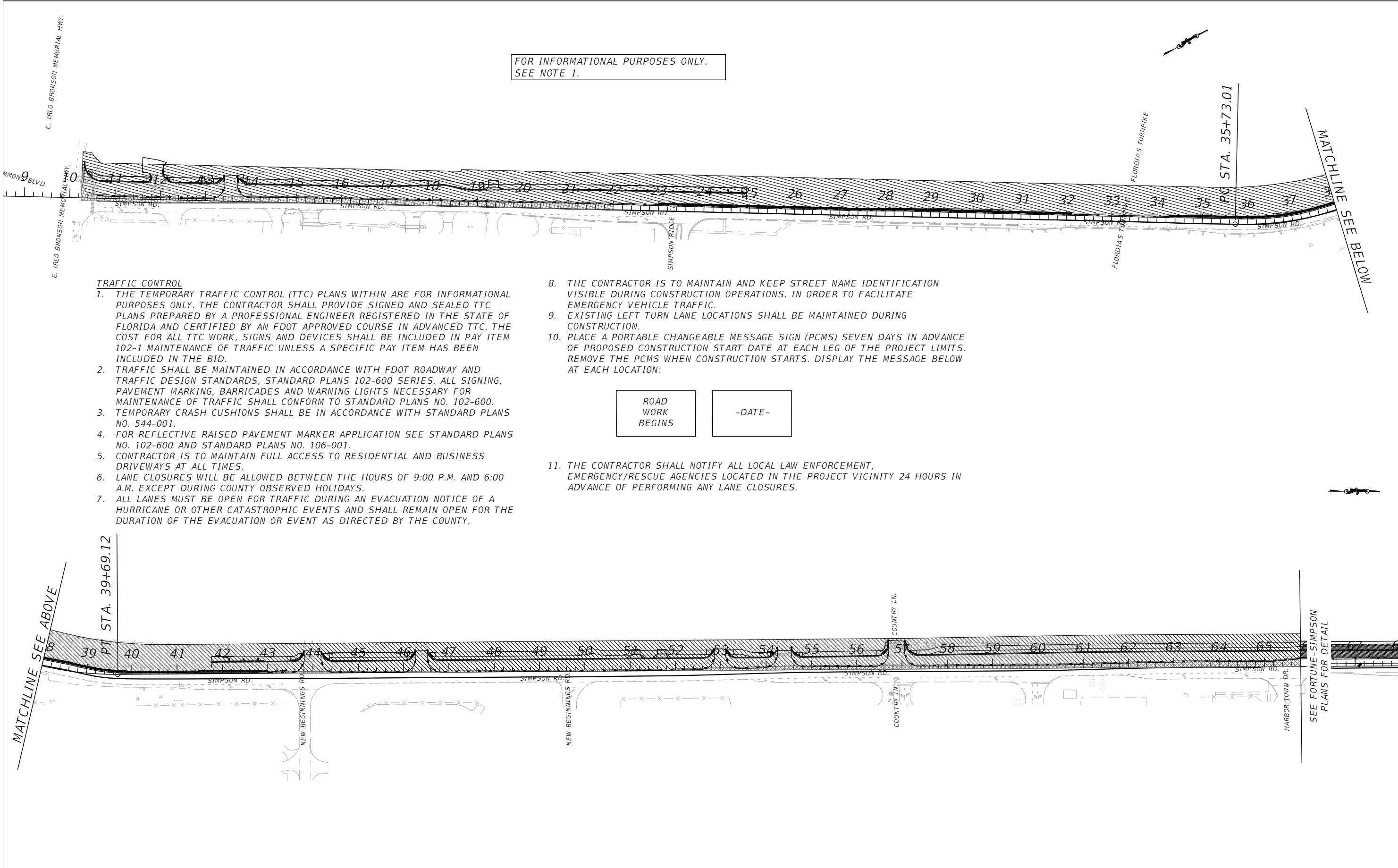
OSCEOLA COUNTY
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**SIMPSON RD UTILITY
ADJUSTMENT SHEET 11**

SHEET
NO.
137

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FOR INFORMATIONAL PURPOSES ONLY.
SEE NOTE 1.



TRAFFIC CONTROL

1. THE TEMPORARY TRAFFIC CONTROL (TTC) PLANS WITHIN ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL PROVIDE SIGNED AND SEALED TTC PLANS PREPARED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA AND CERTIFIED BY AN FDOT APPROVED COURSE IN ADVANCED TTC. THE COST FOR ALL TTC WORK, SIGNS AND DEVICES SHALL BE INCLUDED IN PAY ITEM 102-1 MAINTENANCE OF TRAFFIC UNLESS A SPECIFIC PAY ITEM HAS BEEN INCLUDED IN THE BID.
2. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, STANDARD PLANS 102-600 SERIES. ALL SIGNING, PAVEMENT MARKING, BARRICADES AND WARNING LIGHTS NECESSARY FOR MAINTENANCE OF TRAFFIC SHALL CONFORM TO STANDARD PLANS NO. 102-600.
3. TEMPORARY CRASH CUSHIONS SHALL BE IN ACCORDANCE WITH STANDARD PLANS NO. 544-001.
4. FOR REFLECTIVE RAISED PAVEMENT MARKER APPLICATION SEE STANDARD PLANS NO. 102-600 AND STANDARD PLANS NO. 106-001.
5. CONTRACTOR IS TO MAINTAIN FULL ACCESS TO RESIDENTIAL AND BUSINESS DRIVEWAYS AT ALL TIMES.
6. LANE CLOSURES WILL BE ALLOWED BETWEEN THE HOURS OF 9:00 P.M. AND 6:00 A.M. EXCEPT DURING COUNTY OBSERVED HOLIDAYS.
7. ALL LANES MUST BE OPEN FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENTS AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE COUNTY.

8. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
9. EXISTING LEFT TURN LANE LOCATIONS SHALL BE MAINTAINED DURING CONSTRUCTION.
10. PLACE A PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) SEVEN DAYS IN ADVANCE OF PROPOSED CONSTRUCTION START DATE AT EACH LEG OF THE PROJECT LIMITS. REMOVE THE PCMS WHEN CONSTRUCTION STARTS. DISPLAY THE MESSAGE BELOW AT EACH LOCATION:

ROAD WORK BEGINS	-DATE-
------------------------	--------

11. THE CONTRACTOR SHALL NOTIFY ALL LOCAL LAW ENFORCEMENT, EMERGENCY/RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY 24 HOURS IN ADVANCE OF PERFORMING ANY LANE CLOSURES.

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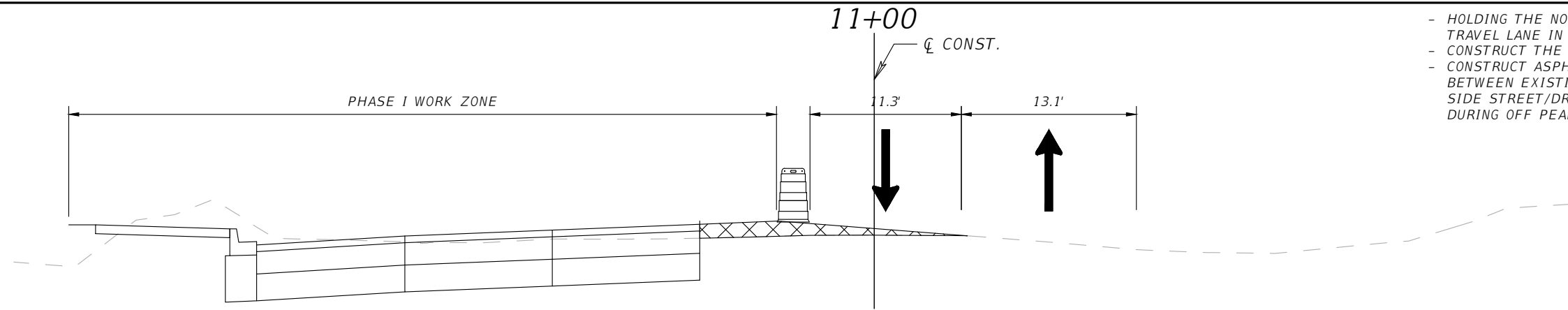
OSCEOLA COUNTY
FLORIDA

SIMPSON RD TRAFFIC CONTROL
PHASE 1 CONCEPT PLAN

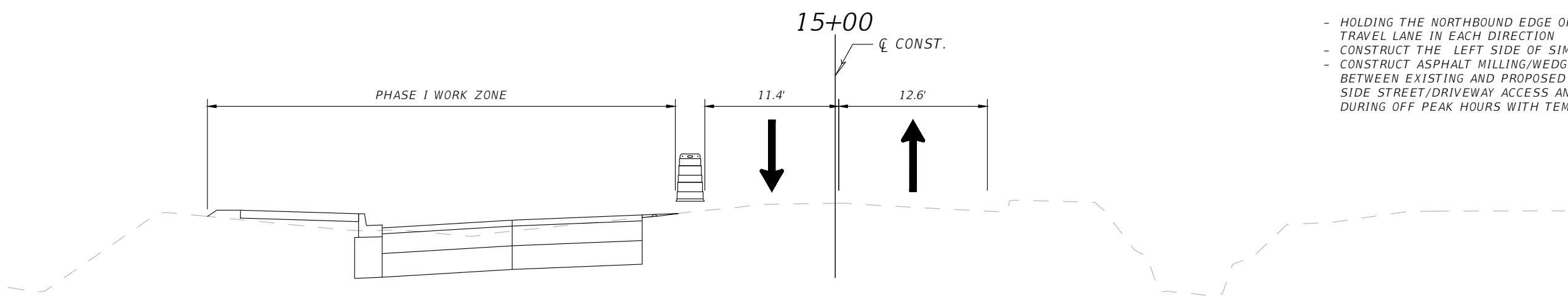
SHEET
NO.

138

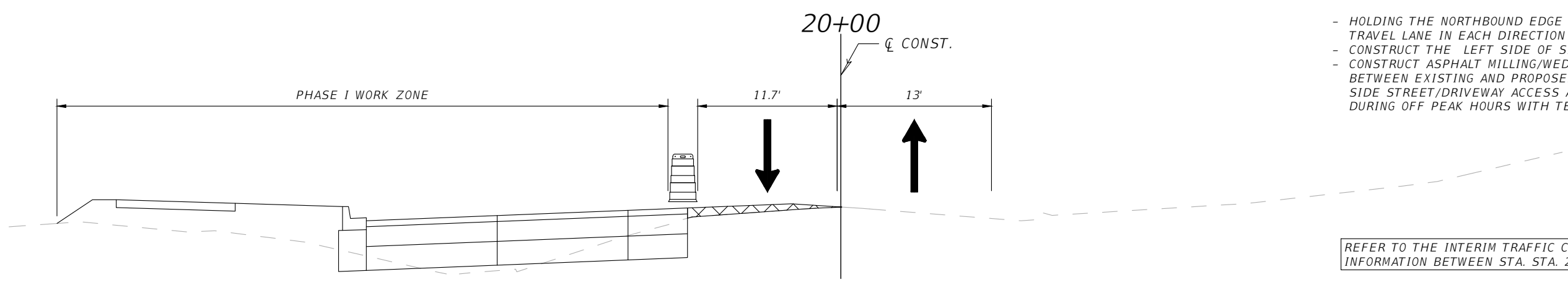
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- HOLDING THE NORTHBOUND EDGE OF TRAVEL, PROVIDE ONE TRAVEL LANE IN EACH DIRECTION
- CONSTRUCT THE LEFT SIDE OF SIMPSON ROAD
- CONSTRUCT ASPHALT MILLING/WEDGING AS NECESSARY BETWEEN EXISTING AND PROPOSED PAVEMENT TO MAINTAIN SIDE STREET/DRIVEWAY ACCESS AND POSITIVE DRAINAGE DURING OFF PEAK HOURS WITH TEMPORARY LANE CLOSURES



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REFER TO THE INTERIM TRAFFIC CONTROL PLANS FOR INFORMATION BETWEEN STA. STA. 24+93 TO STA. 41+76.

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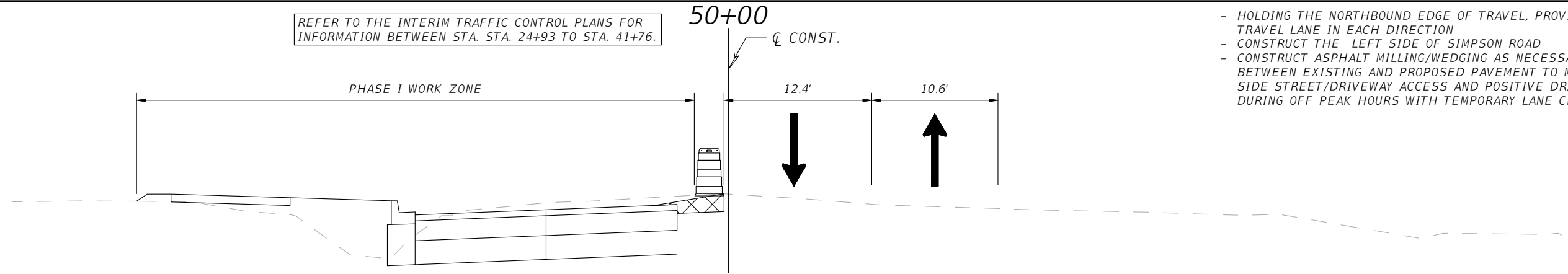
OSCEOLA COUNTY
 FLORIDA

SIMPSON RD TRAFFIC CONTROL
 PHASE 1 TYPICAL SECTIONS
 SHEET 1

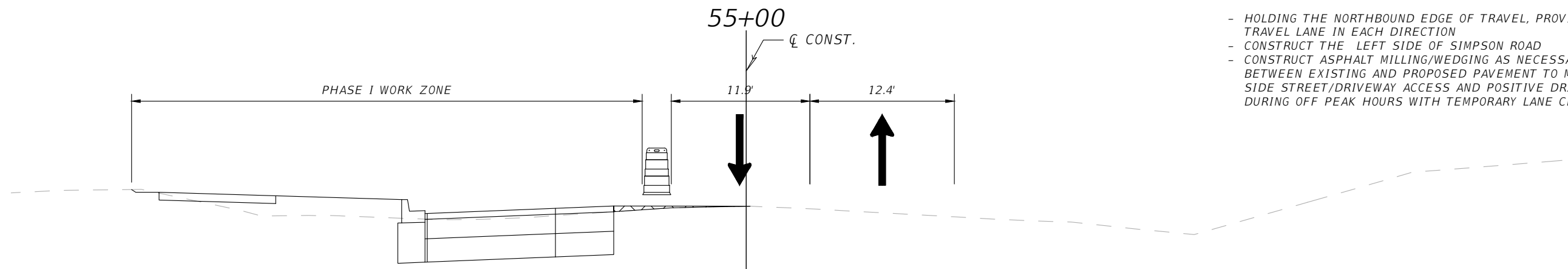
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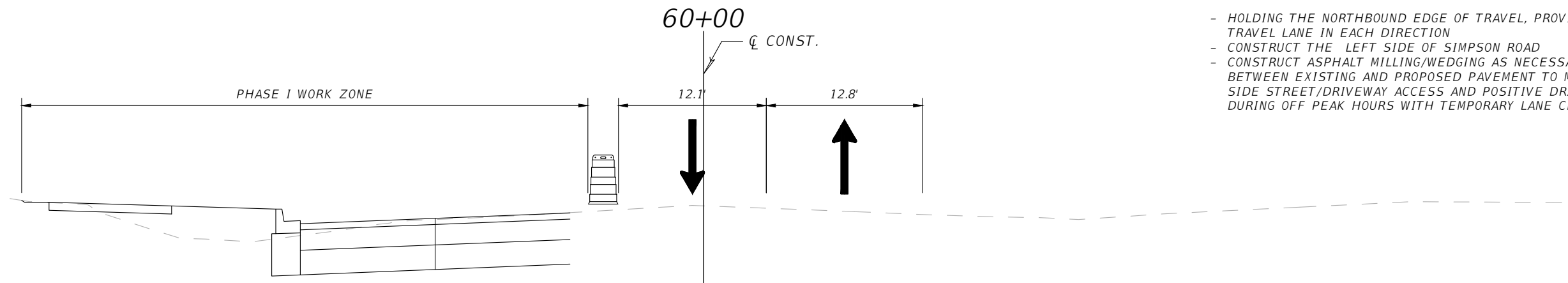
REFER TO THE INTERIM TRAFFIC CONTROL PLANS FOR INFORMATION BETWEEN STA. STA. 24+93 TO STA. 41+76.



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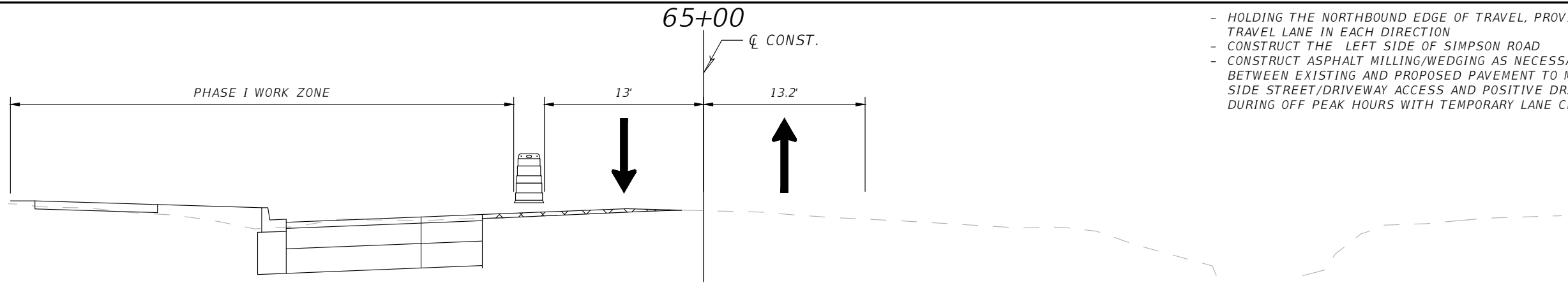


OSCEOLA COUNTY
FLORIDA

SIMPSON RD TRAFFIC CONTROL
PHASE 1 TYPICAL SECTIONS
SHEET 2

SHEET
NO.

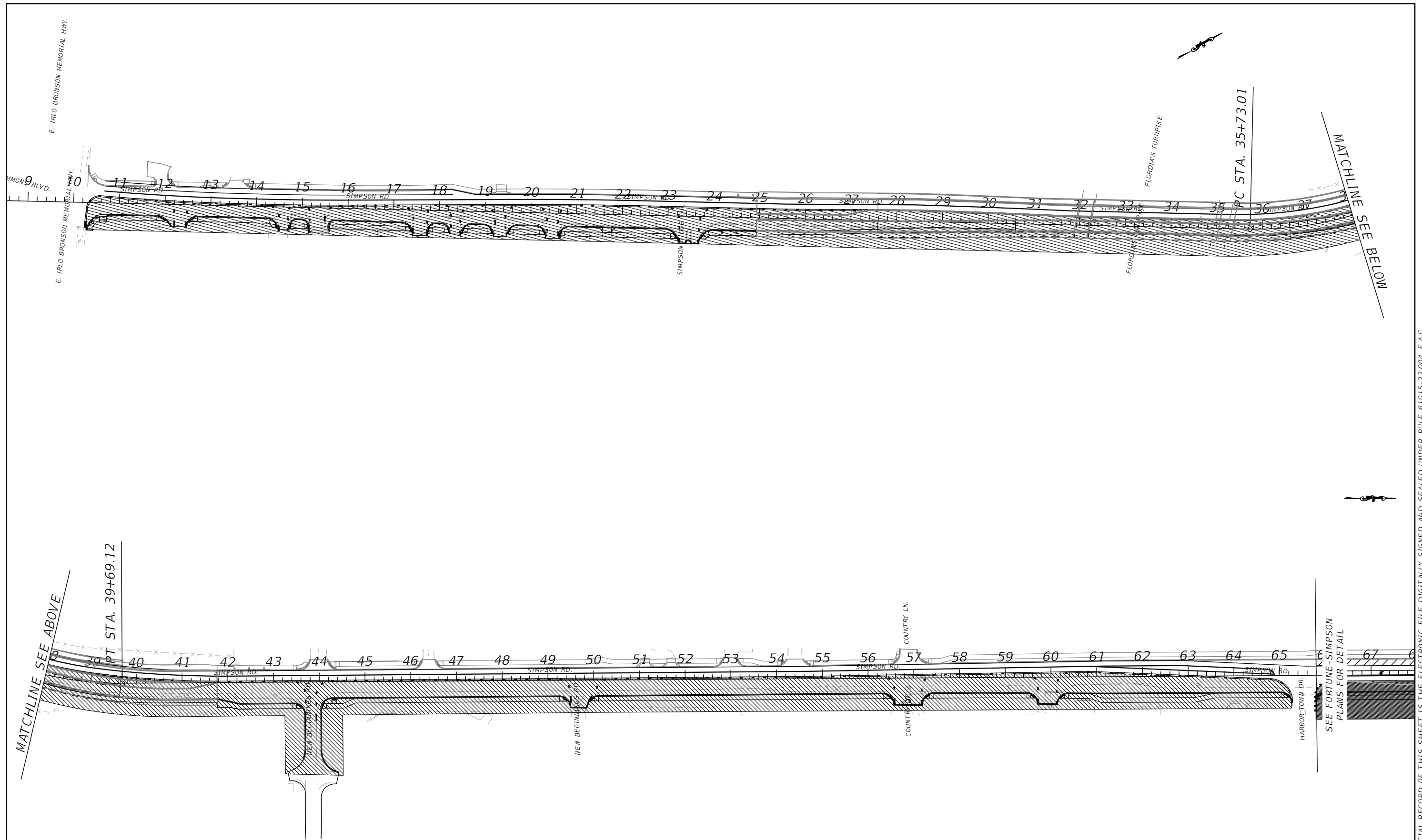
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DATE	DESCRIPTION	DATE	DESCRIPTION				141

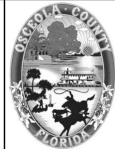


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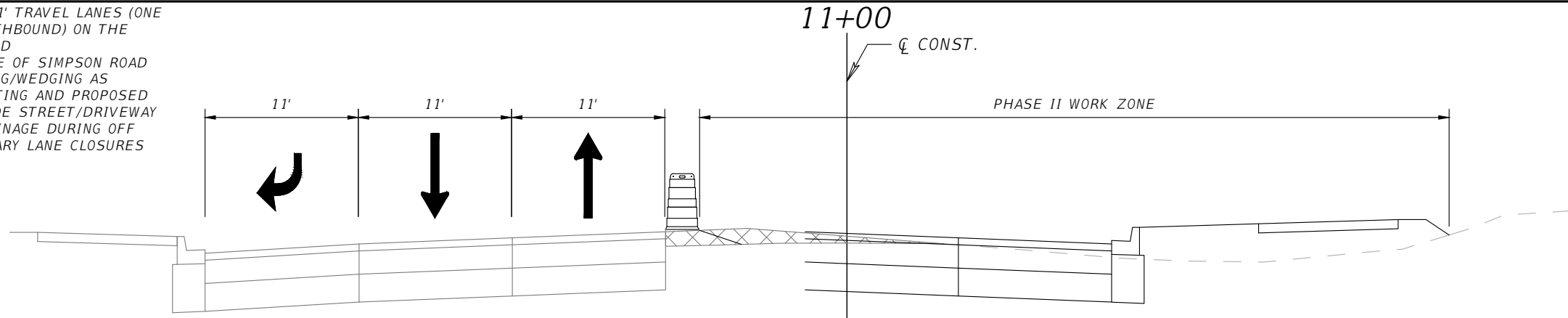


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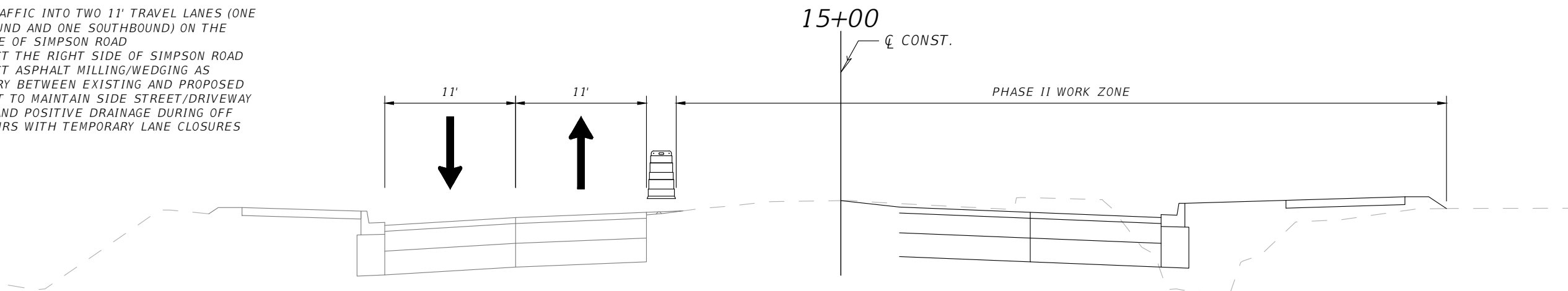
**SIMPSON RD TRAFFIC CONTROL
PHASE 2 CONCEPT PLAN**

SHEET NO.
142

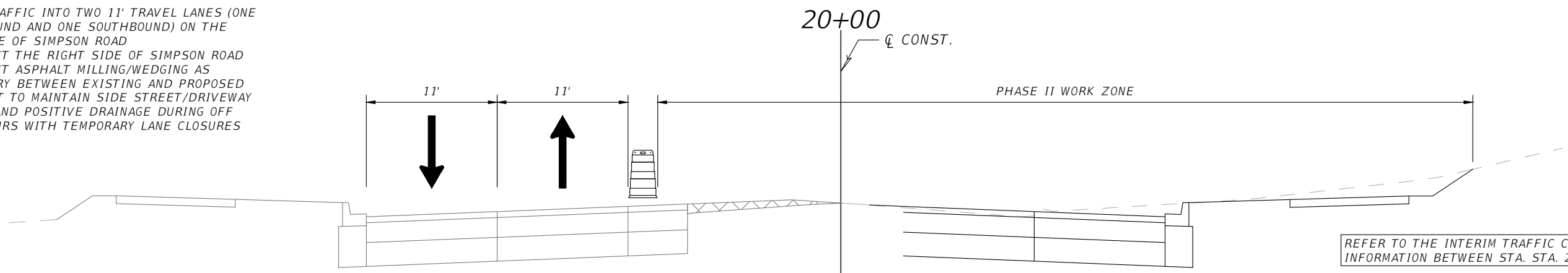
- SHIFT TRAFFIC INTO TWO 11' TRAVEL LANES (ONE NORTHBOUND AND ONE SOUTHBOUND) ON THE LEFT SIDE OF SIMPSON ROAD
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REFER TO THE INTERIM TRAFFIC CONTROL PLANS FOR INFORMATION BETWEEN STA. STA. 24+93 TO STA. 41+76.

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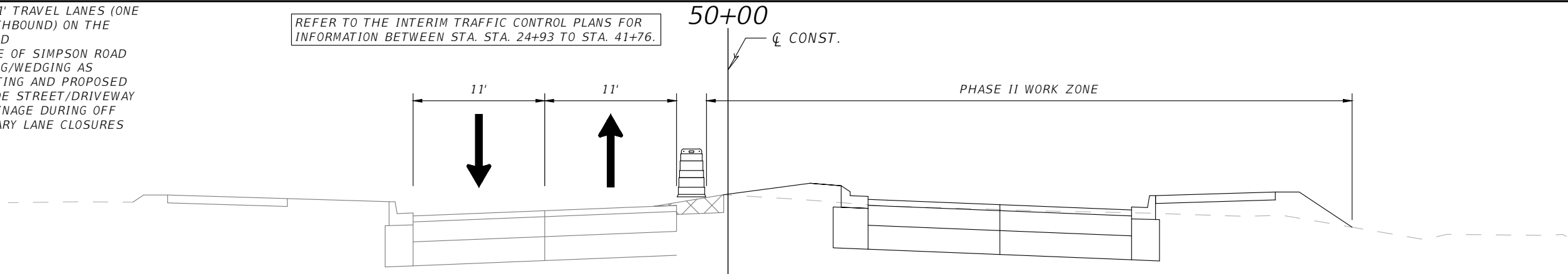
**SIMPSON RD TRAFFIC CONTROL
PHASE 2 TYPICAL SECTIONS
SHEET 1**

SHEET
NO.
143

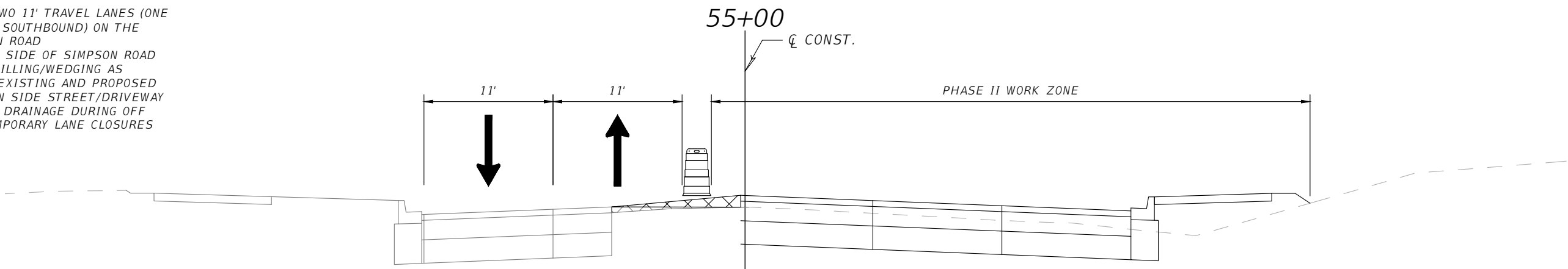
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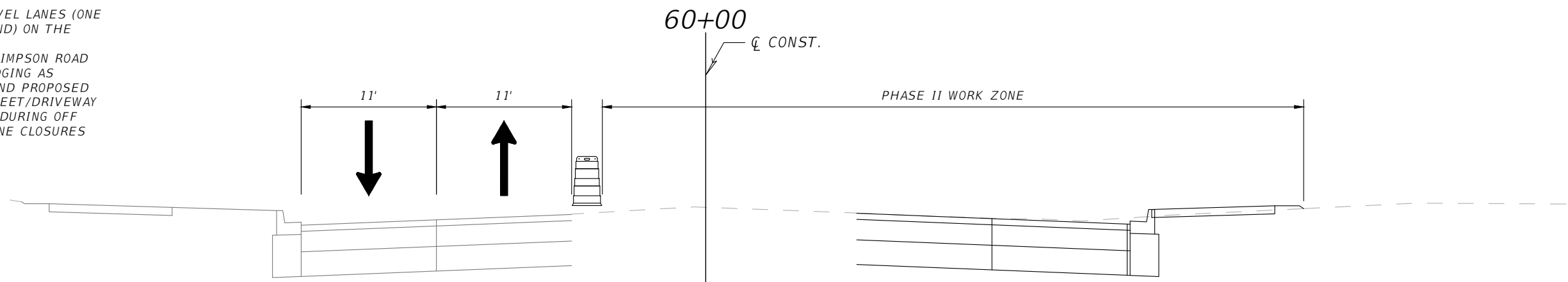
REFER TO THE INTERIM TRAFFIC CONTROL PLANS FOR INFORMATION BETWEEN STA. STA. 24+93 TO STA. 41+76.



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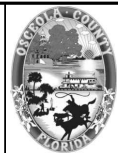


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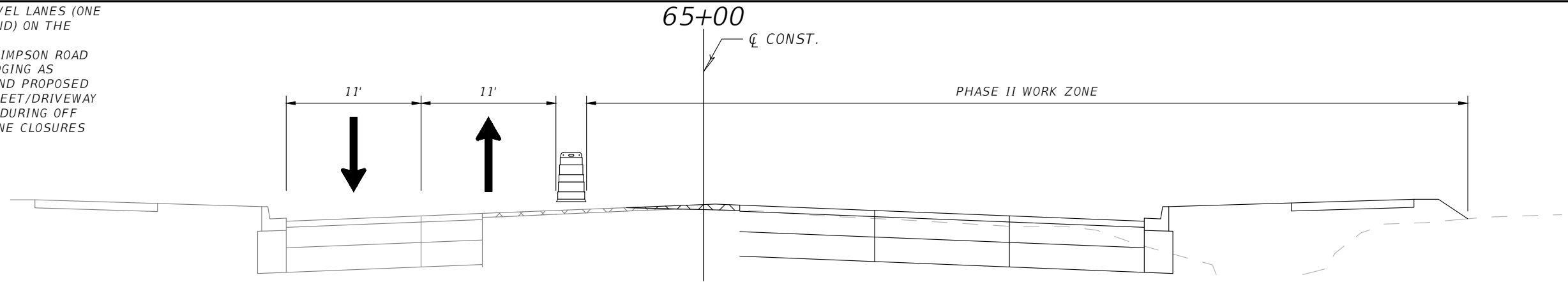
OSCEOLA COUNTY
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SIMPSON RD TRAFFIC CONTROL
 PHASE 2 TYPICAL SECTIONS
 SHEET 2

SHEET
 NO.
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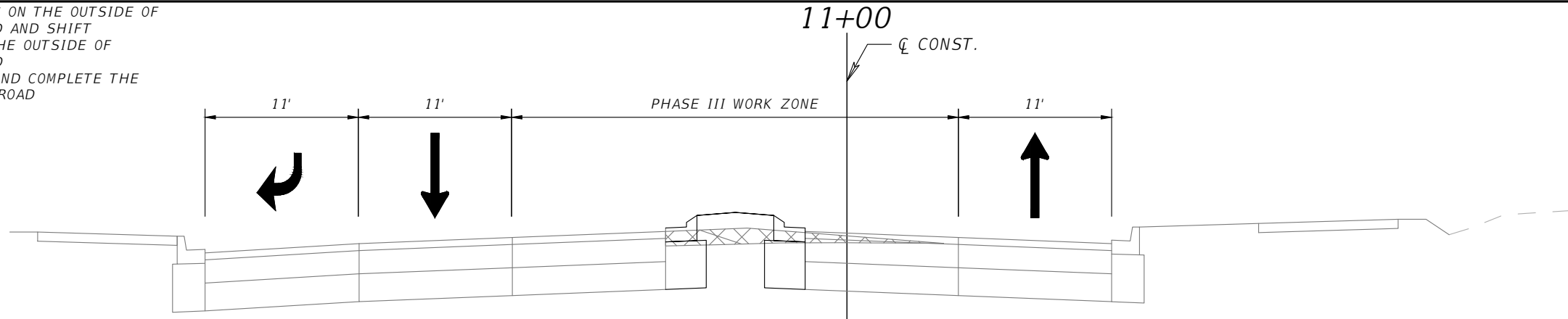
- SHIFT TRAFFIC INTO TWO 11' TRAVEL LANES (ONE NORTHBOUND AND ONE SOUTHBOUND) ON THE LEFT SIDE OF SIMPSON ROAD
- CONSTRUCT THE RIGHT SIDE OF SIMPSON ROAD
- CONSTRUCT ASPHALT MILLING/WEDGING AS NECESSARY BETWEEN EXISTING AND PROPOSED PAVEMENT TO MAINTAIN SIDE STREET/DRIVEWAY ACCESS AND POSITIVE DRAINAGE DURING OFF PEAK HOURS WITH TEMPORARY LANE CLOSURES



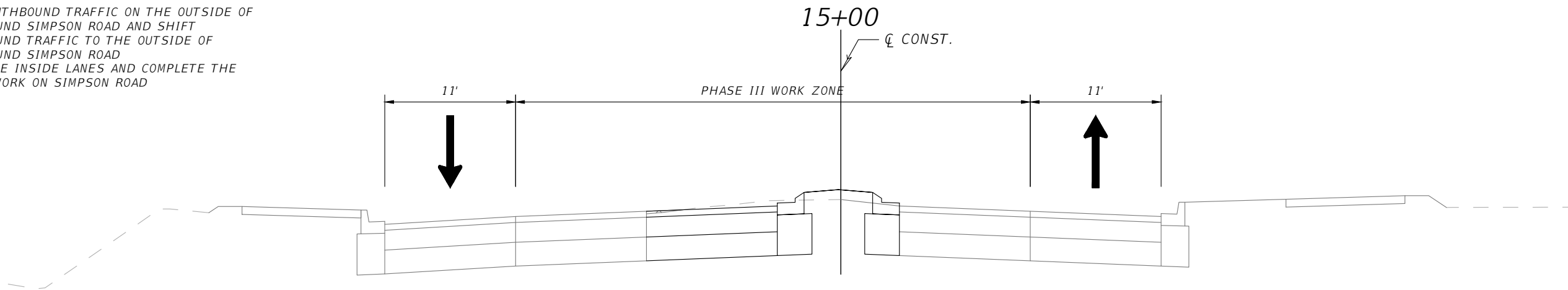
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REVISIONS				 Engineers Scientists Planners Designers 225 E. Robinson Street, Suite 300 Orlando, FL 32801 (407)839-4006 Certificate of Authorization # 3932 Mark F. Bertocini, P.E. PE # 63437	 OSCEOLA COUNTY FLORIDA	SIMPSON RD TRAFFIC CONTROL PHASE 2 TYPICAL SECTIONS SHEET 3	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				145

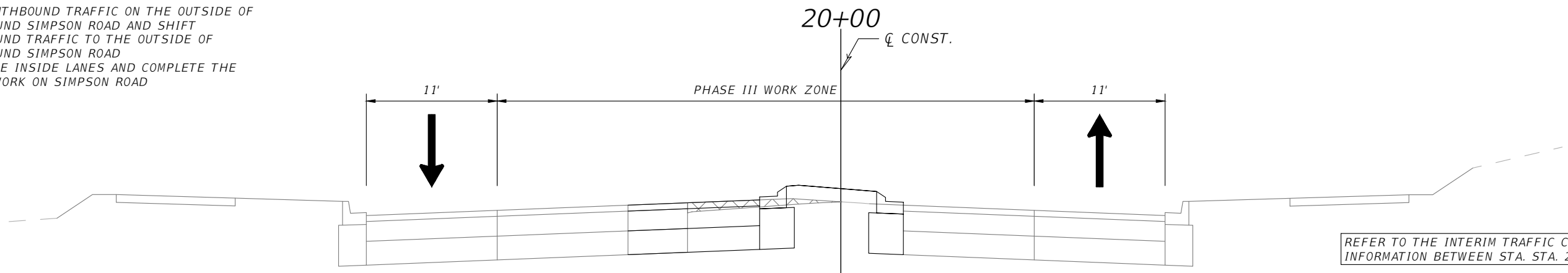
- KEEP SOUTHBOUND TRAFFIC ON THE OUTSIDE OF SOUTHBOUND SIMPSON ROAD AND SHIFT NORTHBOUND TRAFFIC TO THE OUTSIDE OF NORTHBOUND SIMPSON ROAD
- CLOSE THE INSIDE LANES AND COMPLETE THE MEDIAN WORK ON SIMPSON ROAD



- KEEP SOUTHBOUND TRAFFIC ON THE OUTSIDE OF SOUTHBOUND SIMPSON ROAD AND SHIFT NORTHBOUND TRAFFIC TO THE OUTSIDE OF NORTHBOUND SIMPSON ROAD
- CLOSE THE INSIDE LANES AND COMPLETE THE MEDIAN WORK ON SIMPSON ROAD



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- CLOSE THE INSIDE LANES AND COMPLETE THE MEDIAN WORK ON SIMPSON ROAD



REFER TO THE INTERIM TRAFFIC CONTROL PLANS FOR INFORMATION BETWEEN STA. STA. 24+93 TO STA. 41+76.

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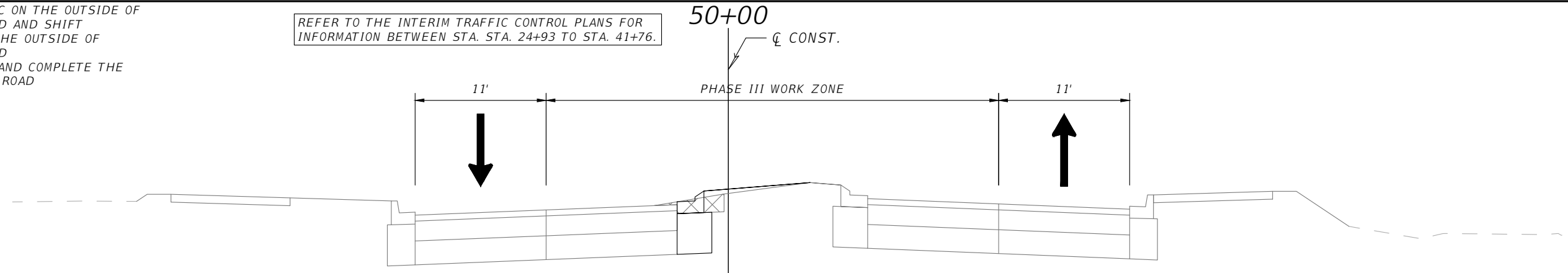
OSCEOLA COUNTY
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SIMPSON RD TRAFFIC CONTROL
 PHASE 3 TYPICAL SECTIONS
 SHEET 1

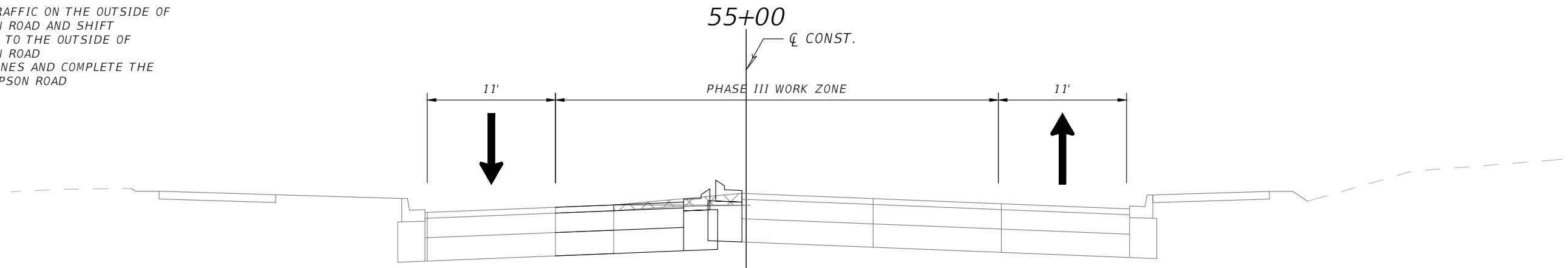
SHEET
 NO.
 146

- KEEP SOUTHBOUND TRAFFIC ON THE OUTSIDE OF SOUTHBOUND SIMPSON ROAD AND SHIFT NORTHBOUND TRAFFIC TO THE OUTSIDE OF NORTHBOUND SIMPSON ROAD
- CLOSE THE INSIDE LANES AND COMPLETE THE MEDIAN WORK ON SIMPSON ROAD

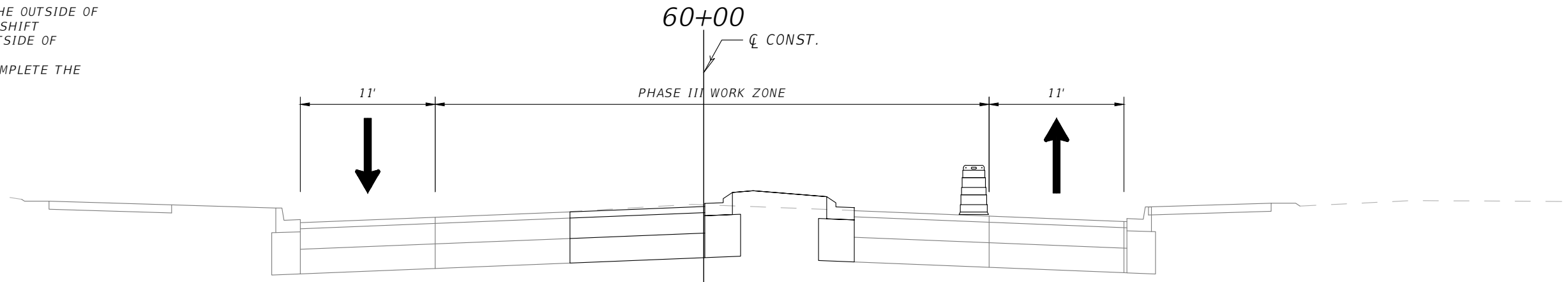
REFER TO THE INTERIM TRAFFIC CONTROL PLANS FOR INFORMATION BETWEEN STA. STA. 24+93 TO STA. 41+76.



- KEEP SOUTHBOUND TRAFFIC ON THE OUTSIDE OF SOUTHBOUND SIMPSON ROAD AND SHIFT NORTHBOUND TRAFFIC TO THE OUTSIDE OF NORTHBOUND SIMPSON ROAD
- CLOSE THE INSIDE LANES AND COMPLETE THE MEDIAN WORK ON SIMPSON ROAD



- KEEP SOUTHBOUND TRAFFIC ON THE OUTSIDE OF SOUTHBOUND SIMPSON ROAD AND SHIFT NORTHBOUND TRAFFIC TO THE OUTSIDE OF NORTHBOUND SIMPSON ROAD
- CLOSE THE INSIDE LANES AND COMPLETE THE MEDIAN WORK ON SIMPSON ROAD



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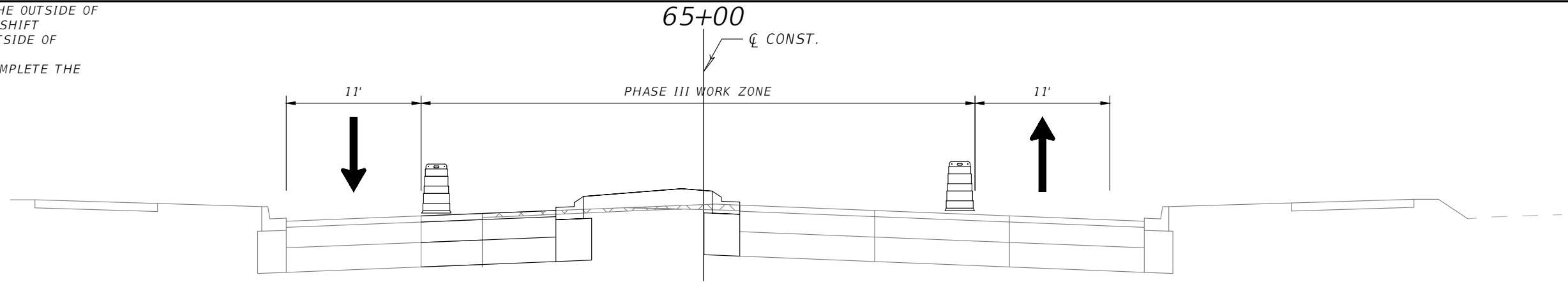
OSCEOLA COUNTY
FLORIDA

SIMPSON RD TRAFFIC CONTROL
PHASE 3 TYPICAL SECTIONS
SHEET 2

SHEET
NO.

147

- KEEP SOUTHBOUND TRAFFIC ON THE OUTSIDE OF SOUTHBOUND SIMPSON ROAD AND SHIFT NORTHBOUND TRAFFIC TO THE OUTSIDE OF NORTHBOUND SIMPSON ROAD
- CLOSE THE INSIDE LANES AND COMPLETE THE MEDIAN WORK ON SIMPSON ROAD



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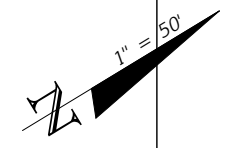


OSCEOLA COUNTY
FLORIDA

SIMPSON RD TRAFFIC CONTROL
PHASE 3 TYPICAL SECTIONS
SHEET 3

SHEET
NO.

148

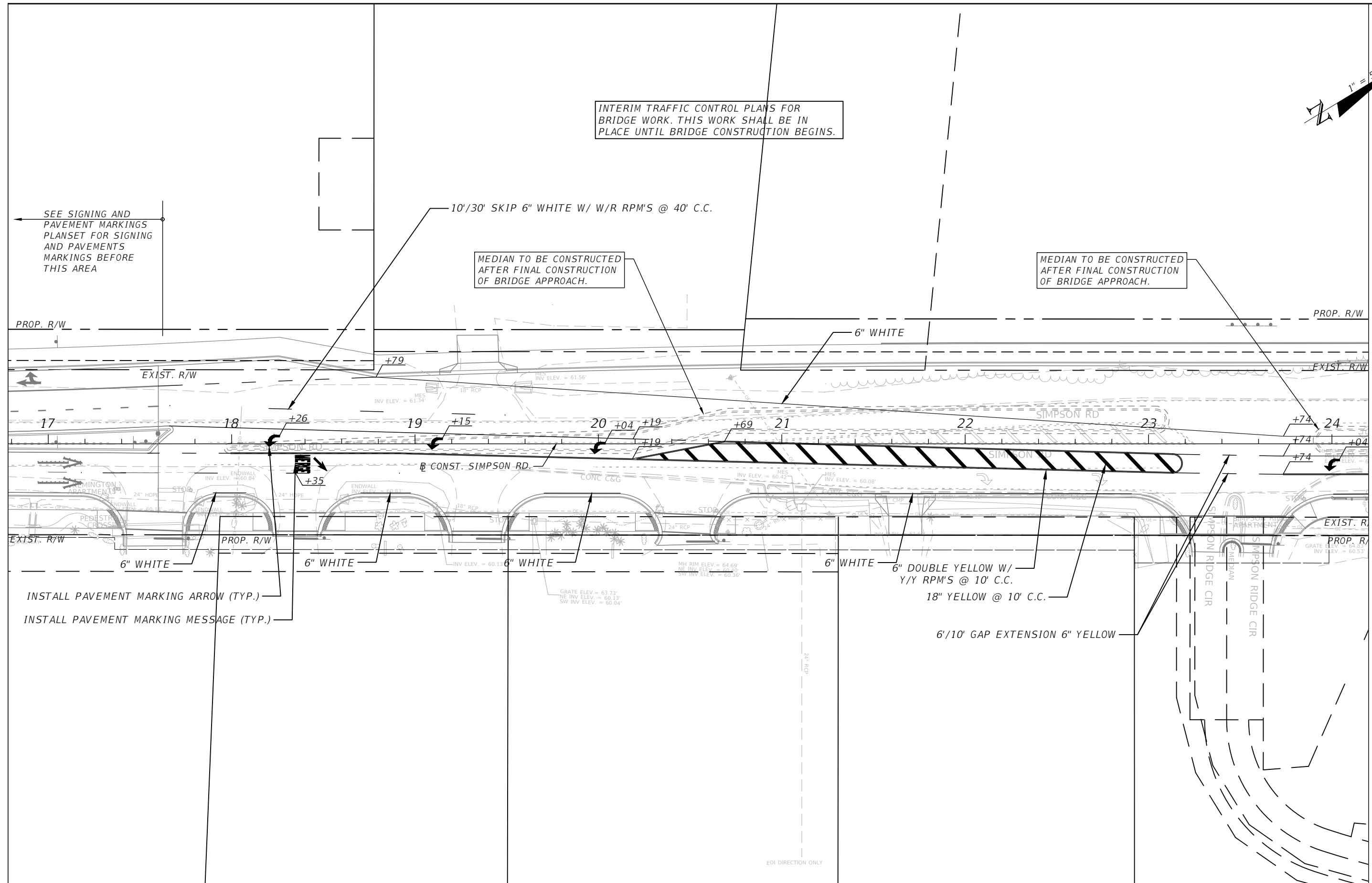


INTERIM TRAFFIC CONTROL PLANS FOR BRIDGE WORK. THIS WORK SHALL BE IN PLACE UNTIL BRIDGE CONSTRUCTION BEGINS.

SEE SIGNING AND PAVEMENT MARKINGS PLANSET FOR SIGNING AND PAVEMENTS MARKINGS BEFORE THIS AREA

MEDIAN TO BE CONSTRUCTED AFTER FINAL CONSTRUCTION OF BRIDGE APPROACH.

MEDIAN TO BE CONSTRUCTED AFTER FINAL CONSTRUCTION OF BRIDGE APPROACH.



MATCHLINE STA. - 24+20.00

INSTALL PAVEMENT MARKING ARROW (TYP.)
INSTALL PAVEMENT MARKING MESSAGE (TYP.)

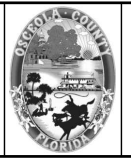
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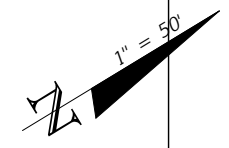


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FLORIDA

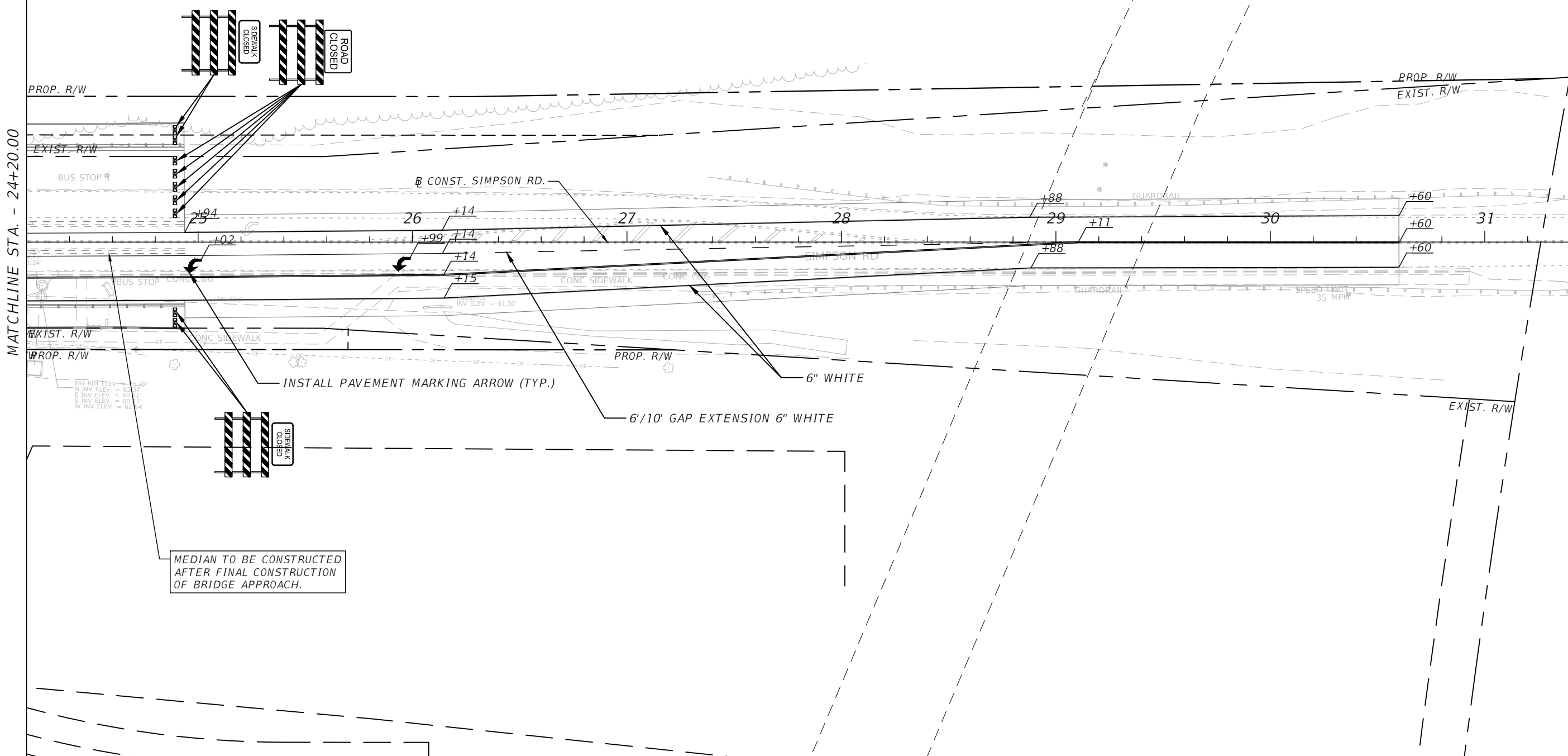
SIMPSON RD INTERIM TRAFFIC CONTROL TEMPORARY PLAN SHEET 1

SHEET NO.
149

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INTERIM TRAFFIC CONTROL PLANS FOR
BRIDGE WORK. THIS WORK SHALL BE IN
PLACE UNTIL BRIDGE CONSTRUCTION BEGINS.



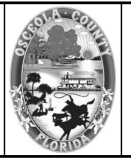
MEDIAN TO BE CONSTRUCTED
AFTER FINAL CONSTRUCTION
OF BRIDGE APPROACH.

MATCHLINE STA. - 24+20.00

MATCHLINE STA. - 31+40.00

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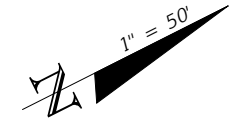
OSCEOLA COUNTY
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**SIMPSON RD INTERIM TRAFFIC
CONTROL TEMPORARY PLAN
SHEET 2**

SHEET
NO.

150

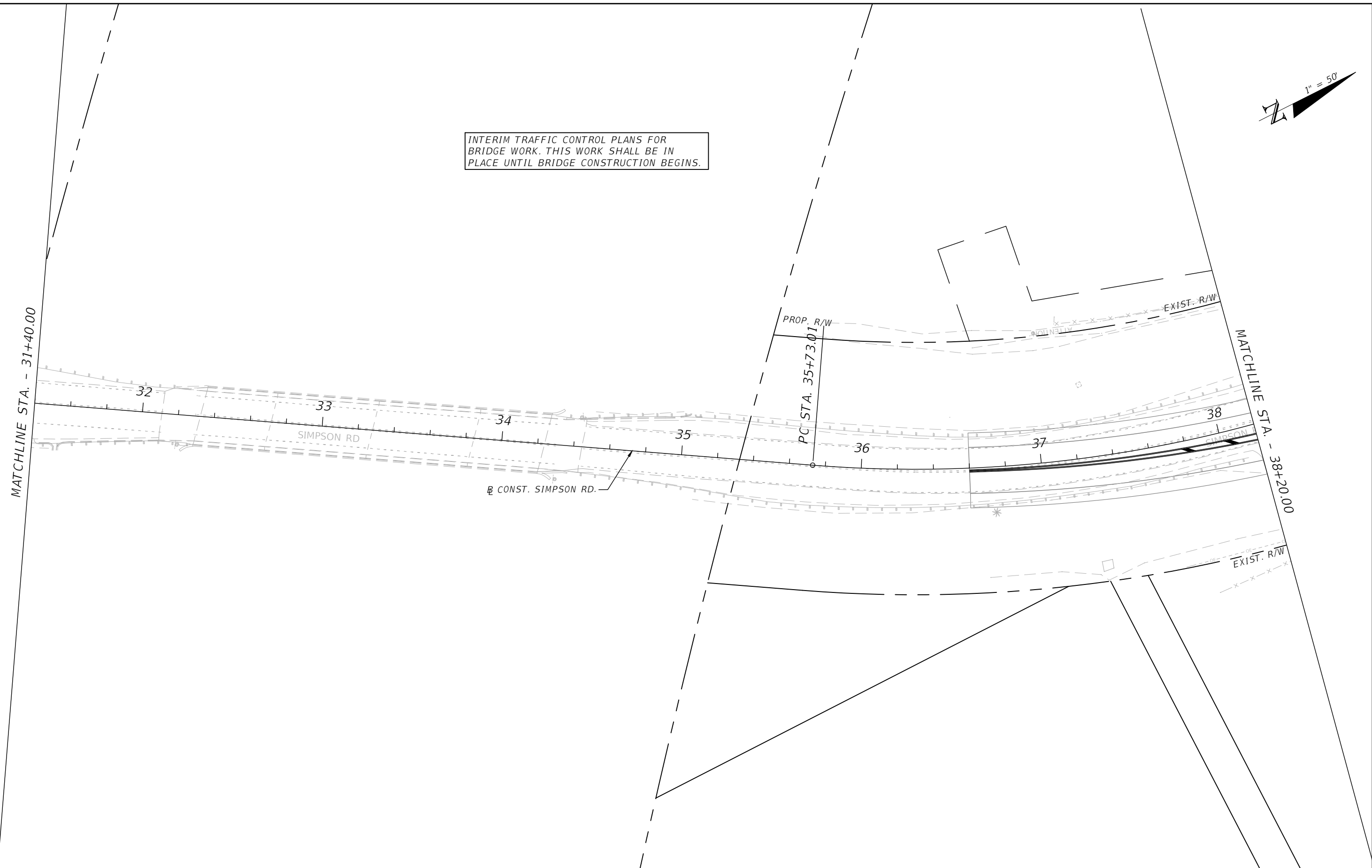
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INTERIM TRAFFIC CONTROL PLANS FOR
BRIDGE WORK. THIS WORK SHALL BE IN
PLACE UNTIL BRIDGE CONSTRUCTION BEGINS.

MATCHLINE STA. - 31+40.00

MATCHLINE STA. - 38+20.00



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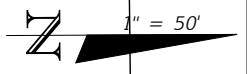


OSCEOLA COUNTY
FLORIDA

**SIMPSON RD INTERIM TRAFFIC
CONTROL TEMPORARY PLAN
SHEET 3**

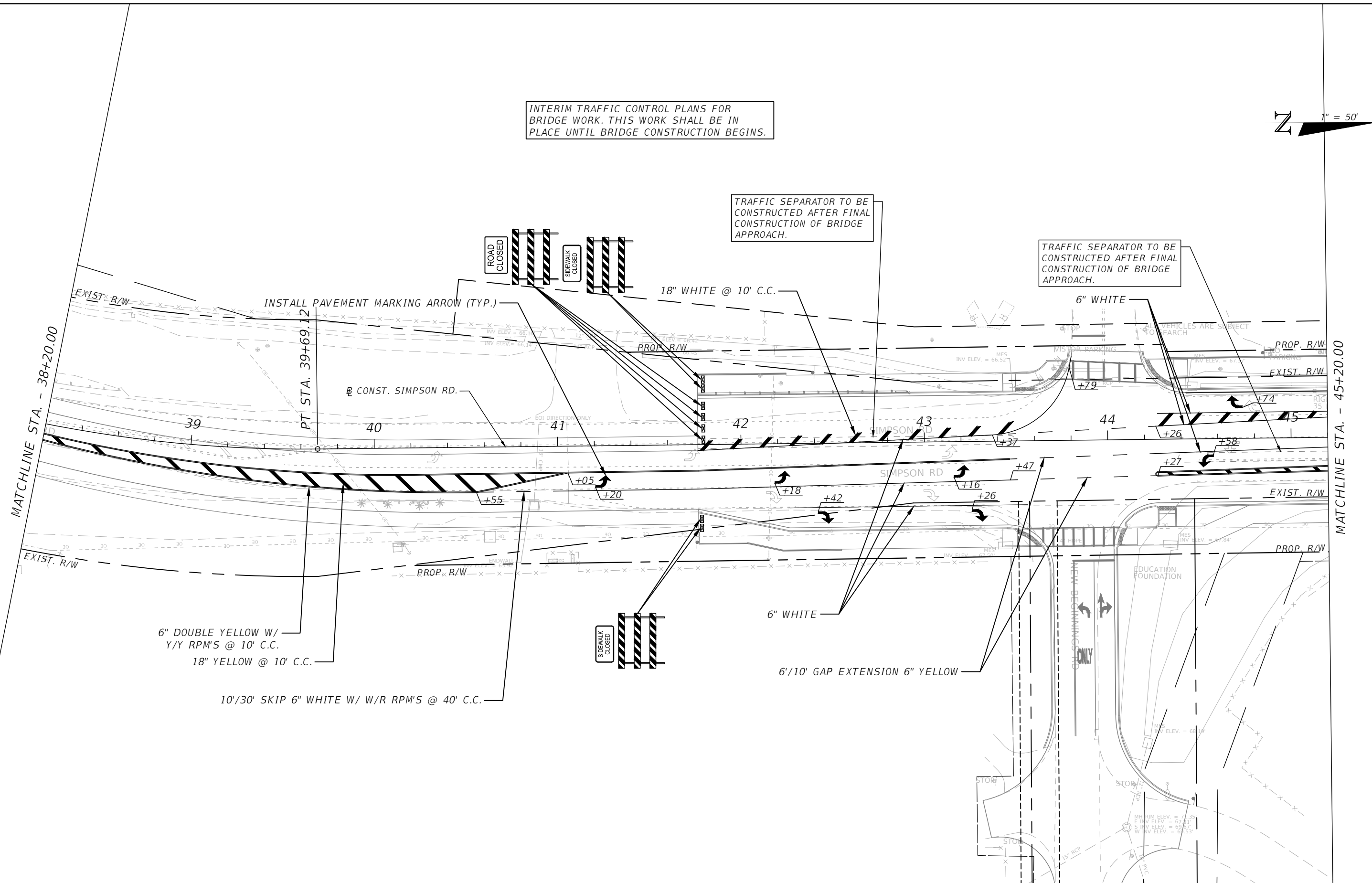
SHEET
NO.
151

INTERIM TRAFFIC CONTROL PLANS FOR BRIDGE WORK. THIS WORK SHALL BE IN PLACE UNTIL BRIDGE CONSTRUCTION BEGINS.



TRAFFIC SEPARATOR TO BE CONSTRUCTED AFTER FINAL CONSTRUCTION OF BRIDGE APPROACH.

TRAFFIC SEPARATOR TO BE CONSTRUCTED AFTER FINAL CONSTRUCTION OF BRIDGE APPROACH.



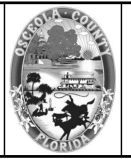
6" DOUBLE YELLOW W/
Y/Y RPM'S @ 10' C.C.
18" YELLOW @ 10' C.C.

10'/30' SKIP 6" WHITE W/ W/R RPM'S @ 40' C.C.

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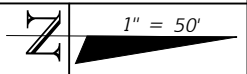
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FLORIDA

**SIMPSON RD INTERIM TRAFFIC
CONTROL TEMPORARY PLAN
SHEET 4**

SHEET
NO.
152

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INTERIM TRAFFIC CONTROL PLANS FOR BRIDGE WORK. THIS WORK SHALL BE IN PLACE UNTIL BRIDGE CONSTRUCTION BEGINS.



SEE SIGNING AND PAVEMENT MARKINGS PLANSET FOR SIGNING AND PAVEMENTS MARKINGS AFTER THIS AREA

INSTALL PAVEMENT MARKING ARROW (TYP.)

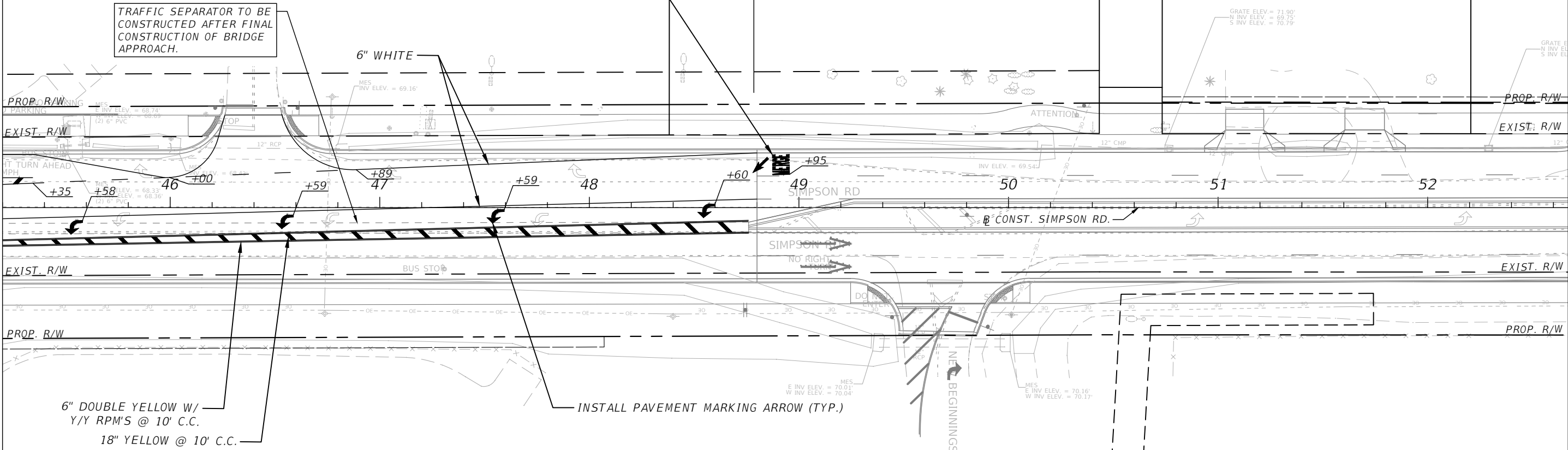
TRAFFIC SEPARATOR TO BE CONSTRUCTED AFTER FINAL CONSTRUCTION OF BRIDGE APPROACH.

6" WHITE

INSTALL PAVEMENT MARKING ARROW (TYP.)

6" DOUBLE YELLOW W/
Y/Y RPM'S @ 10' C.C.
18" YELLOW @ 10' C.C.

MATCHLINE STA. - 45+20.00

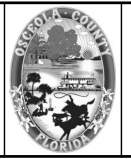


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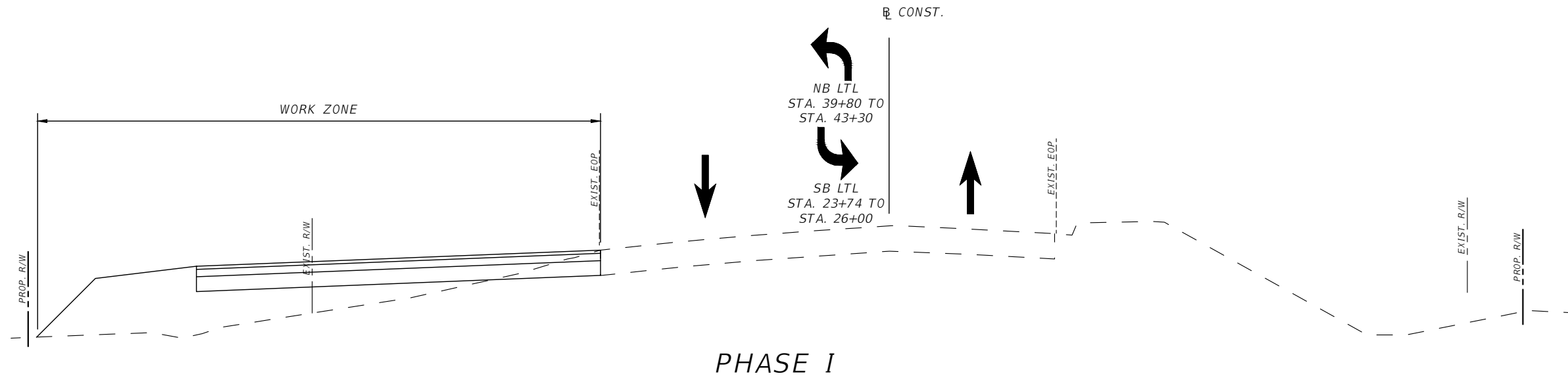


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SIMPSON RD INTERIM TRAFFIC
CONTROL TEMPORARY PLAN
SHEET 5

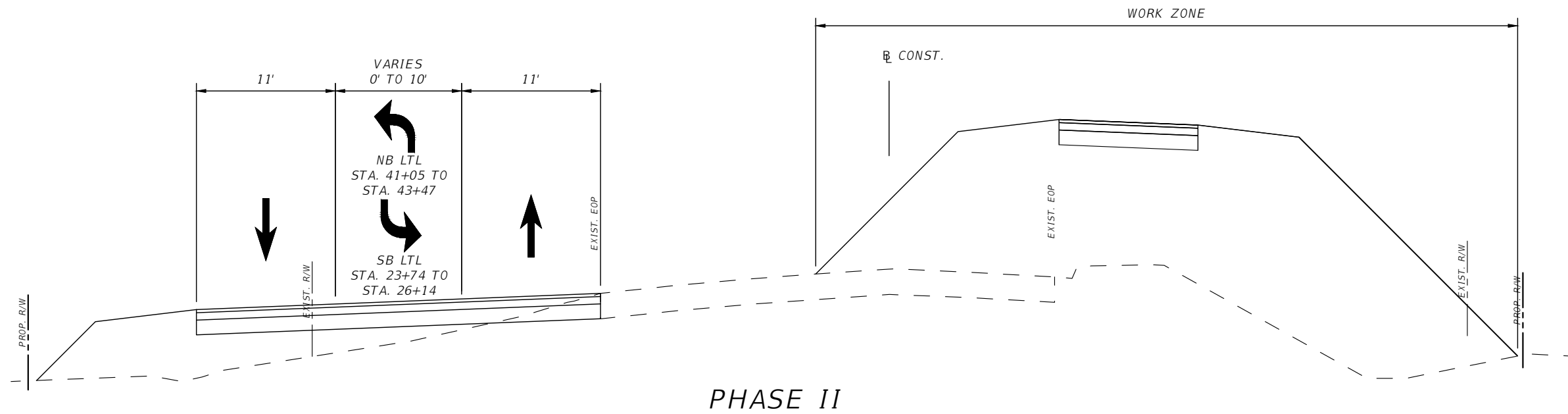
SHEET
NO.
153

INTERIM TTC FOR BRIDGE APPROACHES PHASING
SOUTH APPROACH: STA. 24+93 TO STA. 30+60
NORTH APPROACH: STA. 36+60 TO STA. 41+76



PHASE I-
a. CONSTRUCT TEMPORARY PAVEMENT WHILE MAINTAINING TRAFFIC ON EXISTING ROADWAY.

PHASE I



PHASE II -
a. SHIFT NORTHBOUND AND SOUTHBOUND TRAFFIC TO NEWLY CONSTRUCTED PAVEMENT.
b. CONSTRUCT PARTIAL TEMPORARY PAVEMENT FOR ONE LANE OF NORTHBOUND TRAFFIC WHILE MAINTAINING TRAFFIC ON NEWLY CONSTRUCTED TEMPORARY PAVEMENT.

PHASE II

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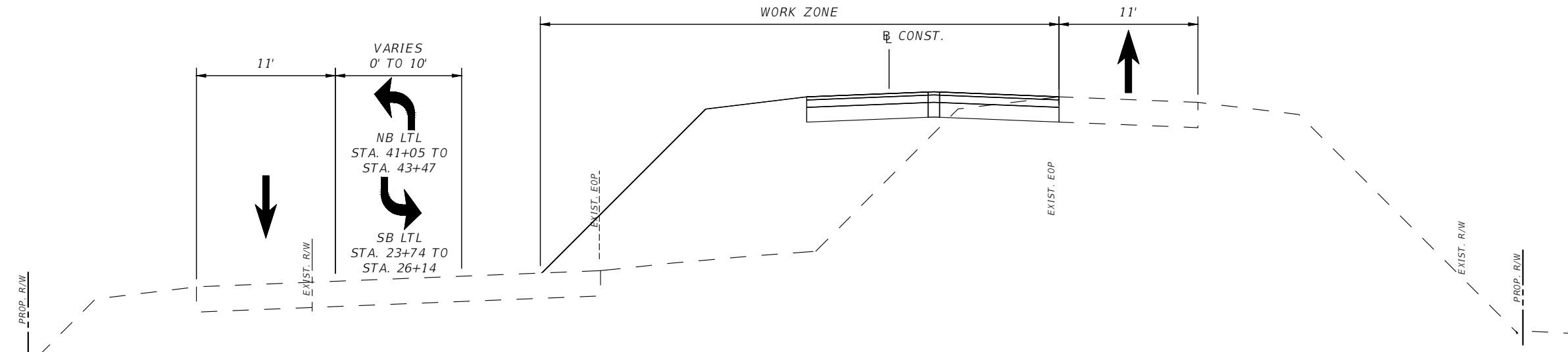


OSCEOLA COUNTY
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**SIMPSON RD INTERIM TRAFFIC
CONTROL TYPICAL SECTION
SHEET 1**

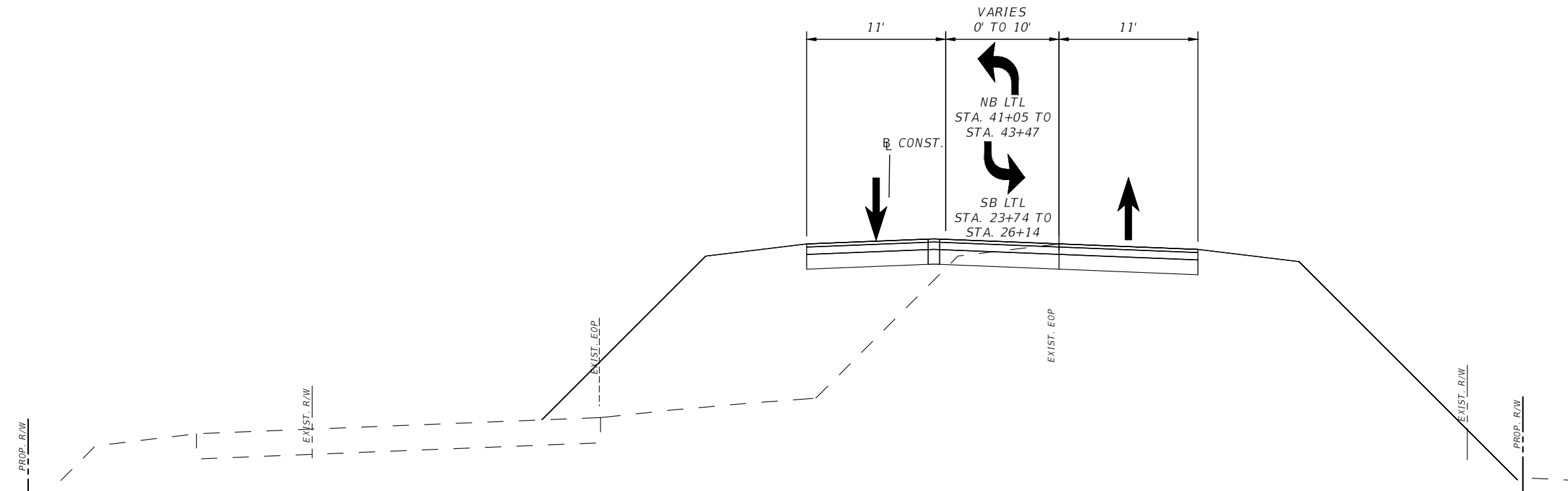
SHEET
NO.
154

INTERIM TTC FOR BRIDGE APPROACHES PHASING
SOUTH APPROACH: STA. 24+93 TO STA. 30+60
NORTH APPROACH: STA. 36+60 TO STA. 41+76



PHASE III

- PHASE III -
- SHIFT NORTHBOUND TRAFFIC TO PHASE II ROADWAY. MAINTAIN SOUTHBOUND TRAFFIC ON PHASE I ROADWAY.
 - CONSTRUCT REMAINING PORTION OF TEMPORARY PAVEMENT FOR SOUTHBOUND LANES.



PHASE IV

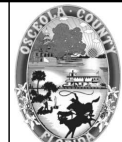
- PHASE IV -
- INSTALL TEMPORARY STRIPING FOR THE INTERIM TTC CONDITION.
SOUTH APPROACH: STA. 17+60 TO STA. 30+60
NORTH APPROACH: STA. 36+60 TO STA. 48+80
 - SHIFT ALL TRAFFIC TO TEMPORARY PAVEMENT.
 - FTE CONTRACTOR TO COMPLETE FINAL PAVING, MEDIAN AND CURBS, TRAFFIC SEPARATORS, AND PAVEMENT MARKINGS.
SOUTH APPROACH: STA. 17+60 TO STA. 30+60
NORTH APPROACH: STA. 36+60 TO STA. 48+80
 - CONTRACTOR TO REMOVE ALL TEMPORARY ROADWAY NOT IN USE FOR INTERIM CONDITIONS.

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**SIMPSON RD INTERIM TRAFFIC
CONTROL TYPICAL SECTION
SHEET 2**

SHEET
NO.

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