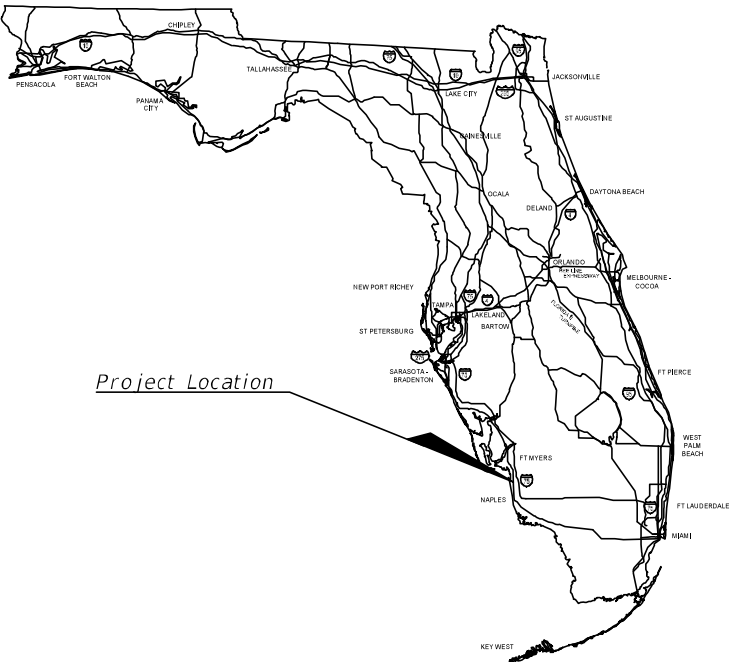
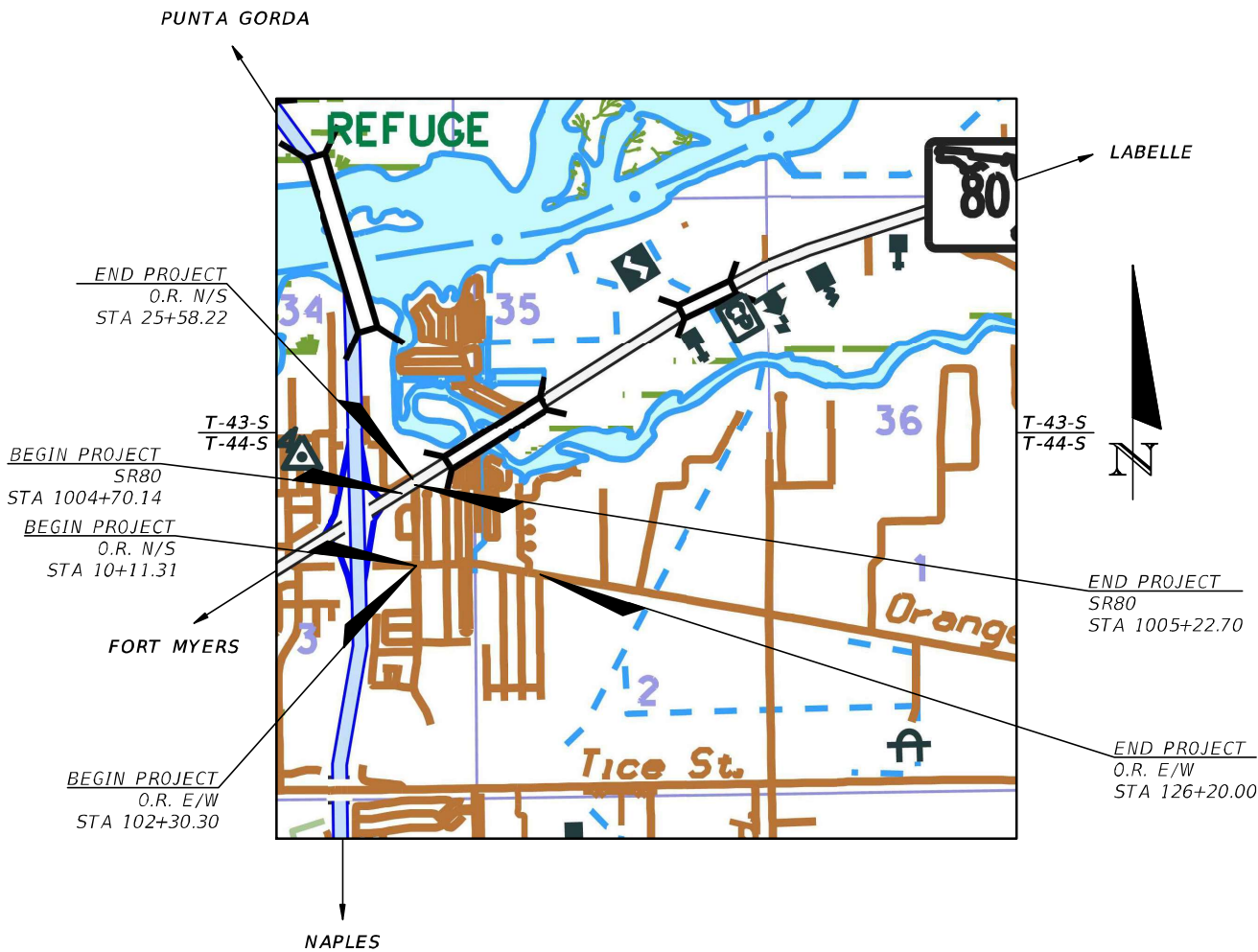


LEE COUNTY
DEPARTMENT OF TRANSPORTATION

INDEX OF PLANS

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PLAN SET
CW3 PROJECT NUMBER 20-0016A
LEE COUNTY PROJECT NUMBER CN200224JJB
ORANGE RIVER BLVD. SIDEWALK
AND WATERMAIN REPLACEMENT



THIS DOCUMENT HAS BEEN DIGITALLY
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ROADWAY PLANS
ENGINEER OF RECORD:

CLAIR WRIGHT, III, P.E.
P.E. No.: 64089
CW3 ENGINEERING, INC.
5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917



LEE COUNTY PROJECT MANAGER:
DAVID M. MURPHY, P.E.

GOVERNING STANDARD PLANS:
Florida Department of Transportation, FY 2023-24 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

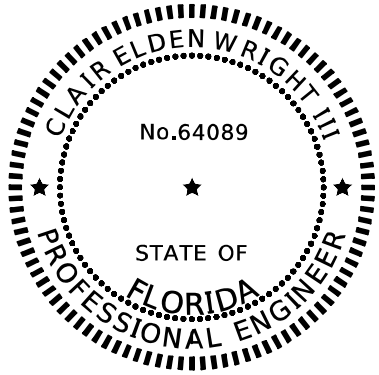
GOVERNING STANDARD SPECIFICATIONS:
Florida Department of Transportation, FY 2023-24 Standard Specifications for
Road and Bridge Construction at the following website:
<http://www.fdot.gov/programmanagement/Implemented/SpecBooks>

REVISIONS:

KEY SHEET UPDATE
Plan Sheets 1 (Revised 12-19-24)

SHEET
NO.

01



THIS DOCUMENT HAS BEEN
DIGITALLY SIGNED AND SEALED BY:

Digitally signed by
Clair E Wright III
Date: 2025.01.06
11:02:37-05'00'

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CLAIR WRIGHT, III, P.E.
P.E. No.: 64089
CW3 ENGINEERING, INC.
5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917

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

SHEET NO.	SHEET DESCRIPTION
01	KEY SHEET
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03 - 05	TYPICAL SECTION
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99	EROSION CONTROL PLAN STATE ROAD 80

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



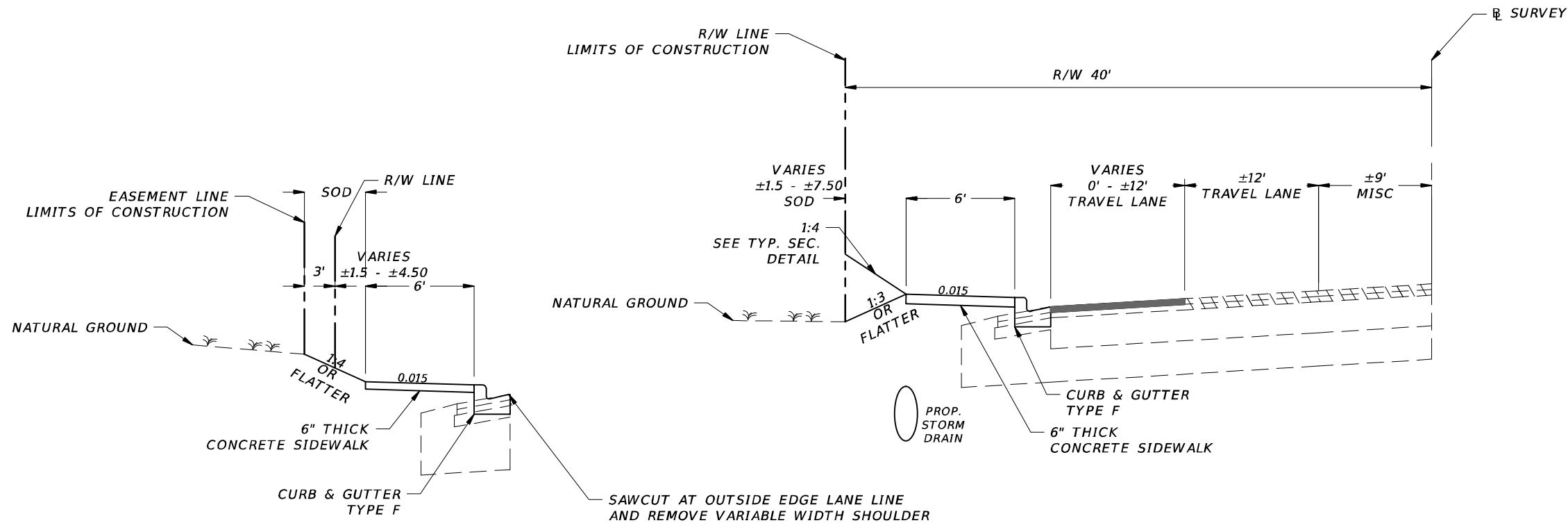
CW3 ENGINEERING, INC.
5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB	
COUNTY	PROJECT #
LEE COUNTY	20-0016A

SIGNATURE SHEET

SHEET
NO.

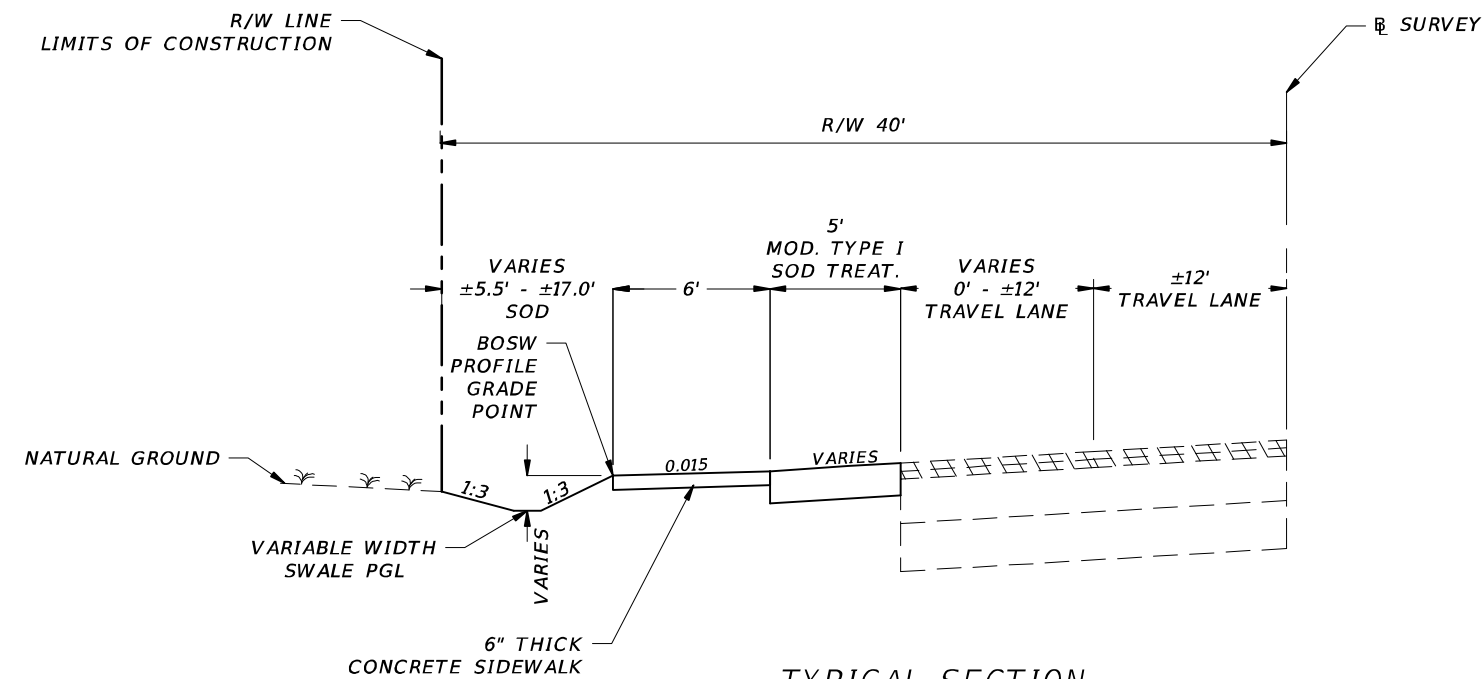
02



TYPICAL SECTION
ORANGE RIVER BLVD.
STA. 14+44.65 TO STA. 23+75.91

MILLING AND RESURFACING

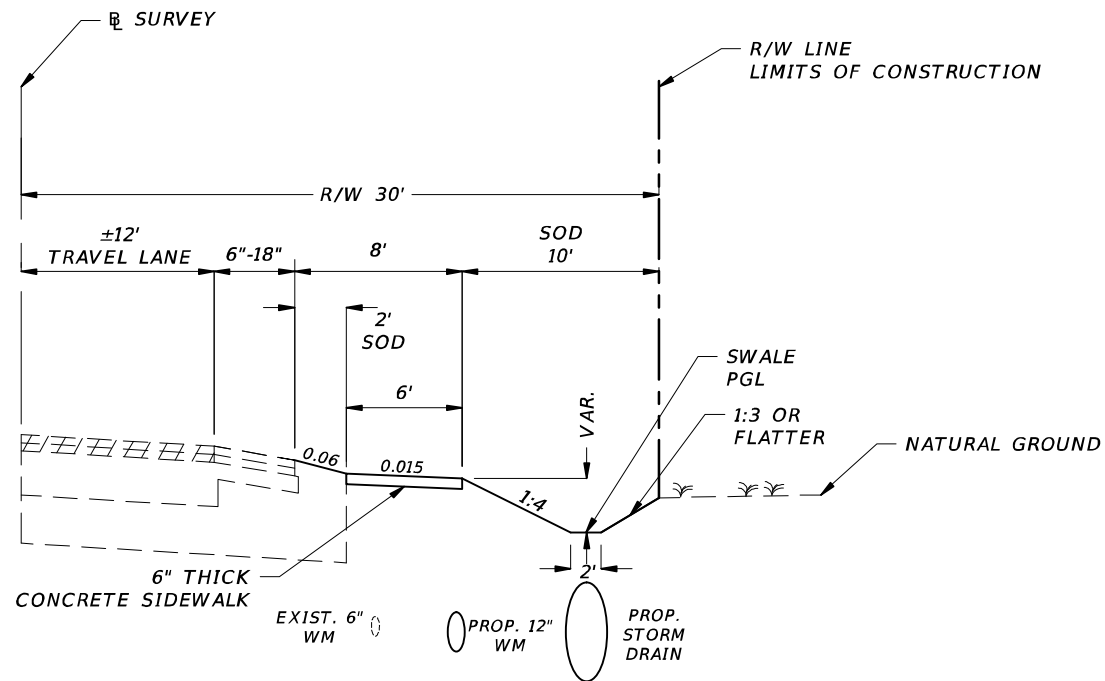
MILL EXISTING ASPHALT PAVEMENT (1.5" DEPTH)
TYPE SP-12.5 STRUCTURAL COURSE (1.5") (PG 67-22)



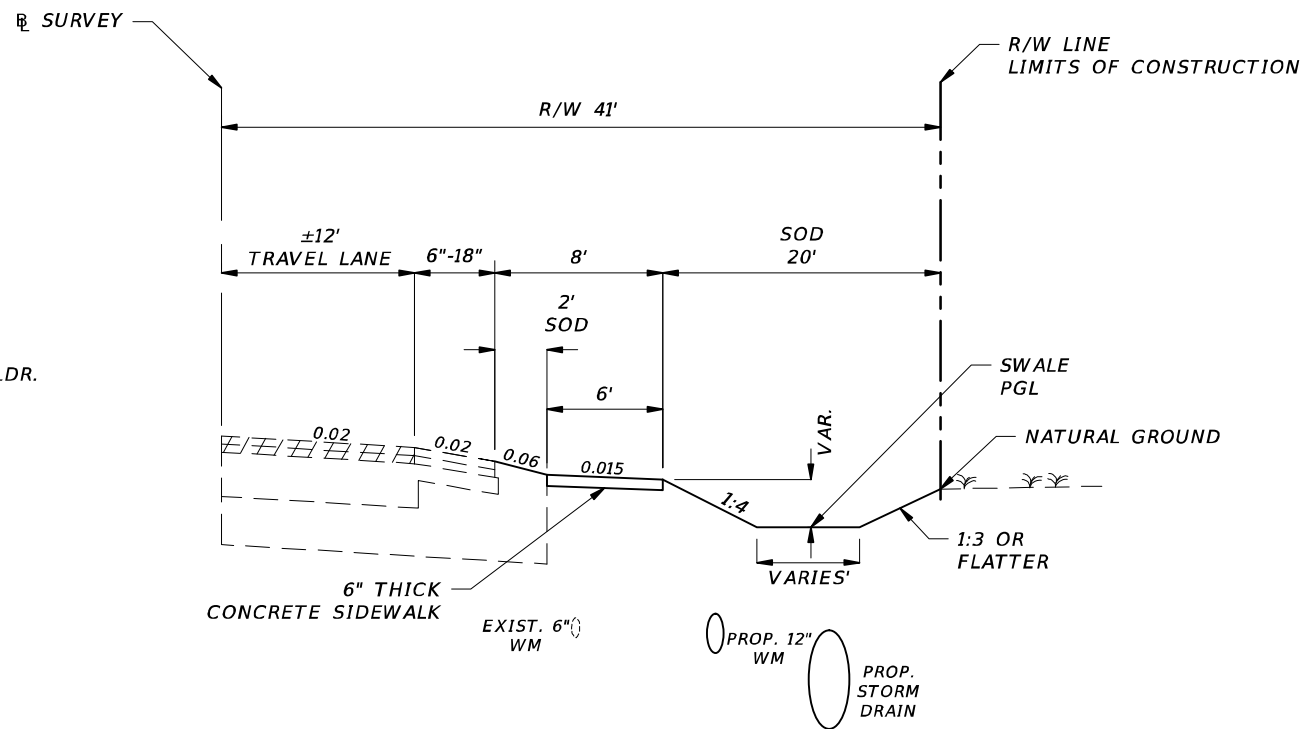
PAVEMENT RESTORATION

12" STABILIZED SUBGRADE
OPTIONAL BASE GROUP 6
TYPE SP-12.5 STRUCTURAL COURSE (1.5") (PG 67-22)
TYPE SP 9.5 SURFACE COURSE (1") (PG 67-22)

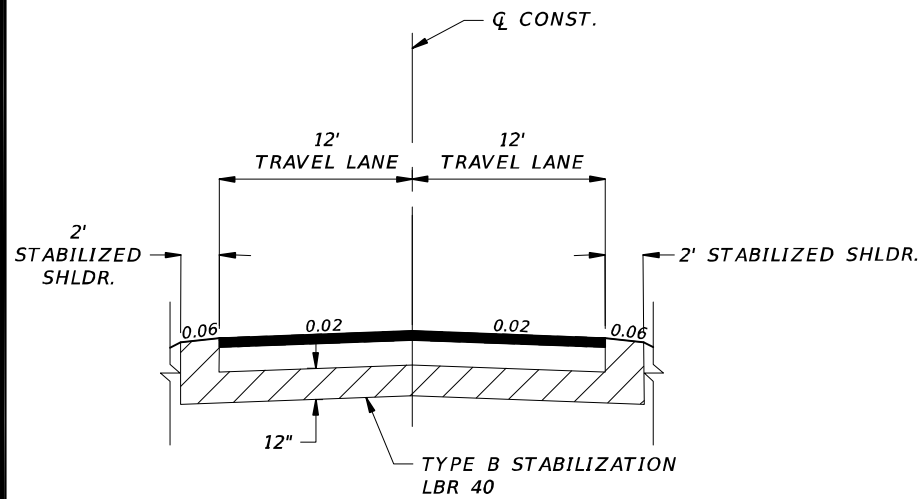
REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		TYPICAL SECTION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		03



TYPICAL SECTION
ORANGE RIVER BLVD.
STA. 106+68.23 TO STA. 116+50.00



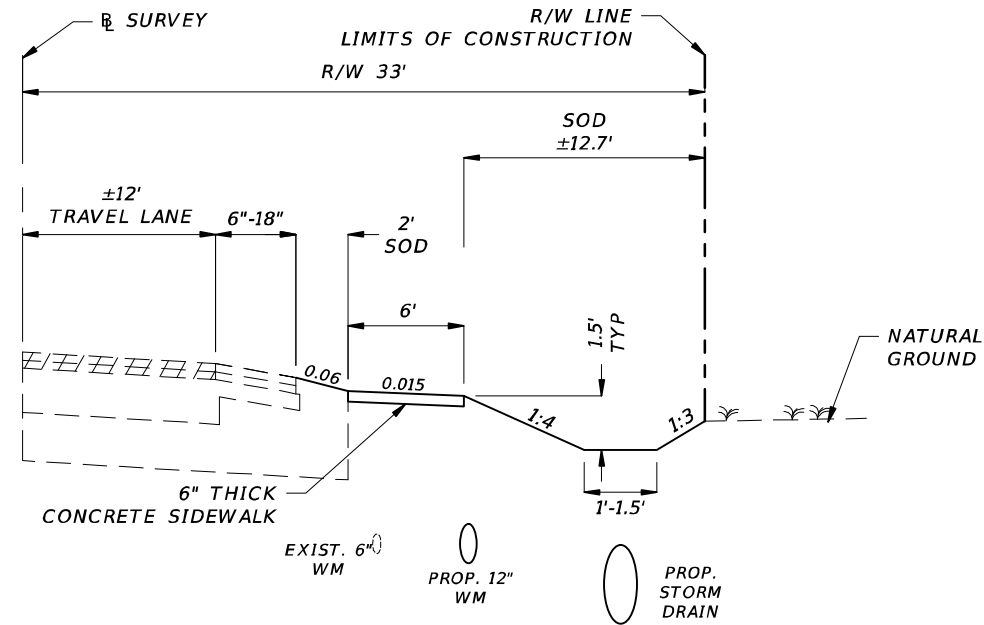
TYPICAL SECTION
ORANGE RIVER BLVD.
STA. 102+30.30 TO STA. 106+68.23



PAVEMENT RESTORATION

OPTIONAL BASE GROUP 6
TYPE SP-12.5 STRUCTURAL COURSE (1.5") (PG 67-22)
TYPE SP 9.5 SURFACE COURSE (1") (PG 67-22)

REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		TYPICAL SECTION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		
								04



TYPICAL SECTION
ORANGE RIVER BLVD.
STA. 116+50.00 TO STA. 126+20.00

PAVEMENT RESTORATION

12" STABILIZED SUBGRADE
OPTIONAL BASE GROUP 6
TYPE SP-12.5 STRUCTURAL COURSE (1.5") (PG 67-22)
TYPE SP 9.5 SURFACE COURSE (1") (PG 67-22)

REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		TYPICAL SECTION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		05
					LEE COUNTY	20-0016A		



Land Use Table		
Total Area (ac.)	Total Impervious Area (ac.)	Total Pervious Area (ac.)
107.16	13.63	93.53

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



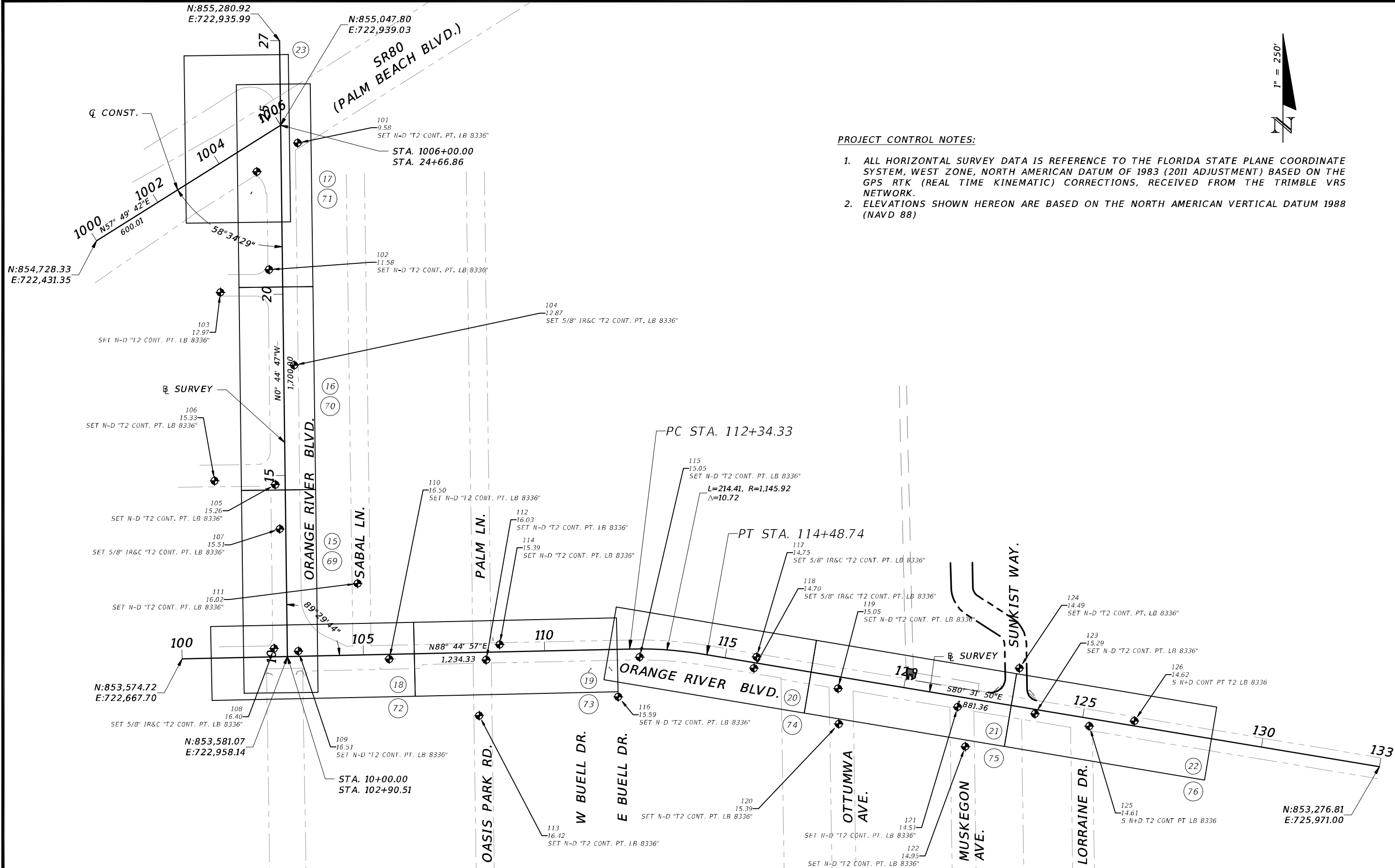
CW3 ENGINEERING, INC.
5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB

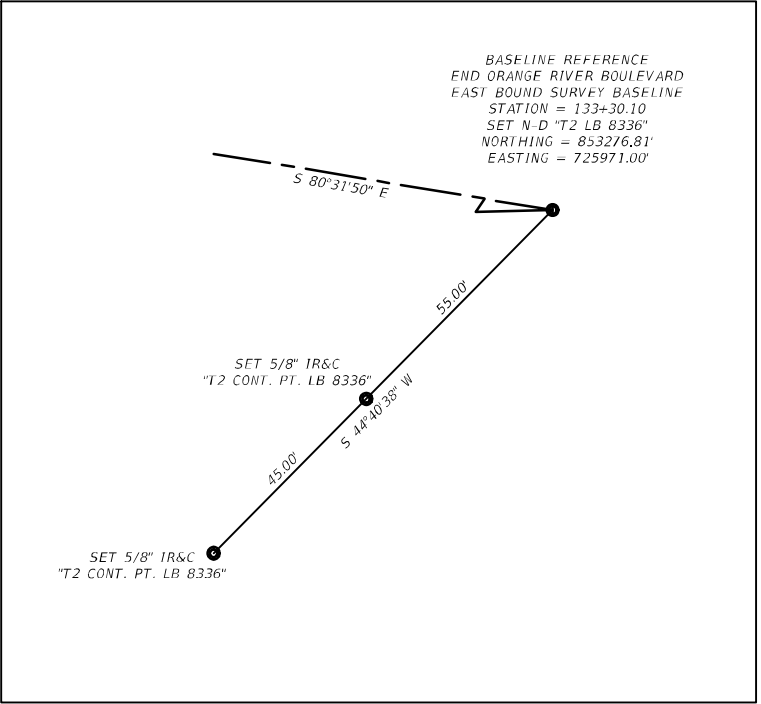
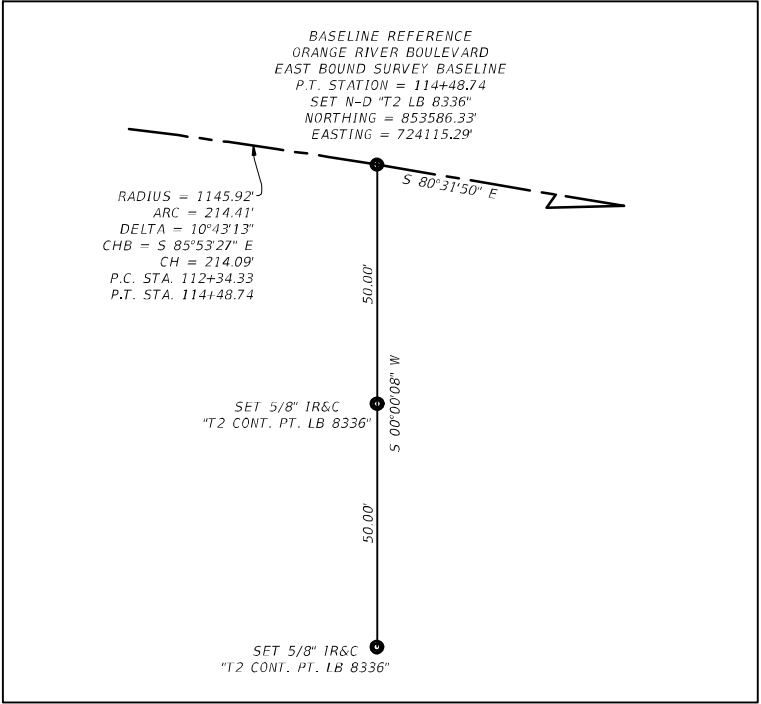
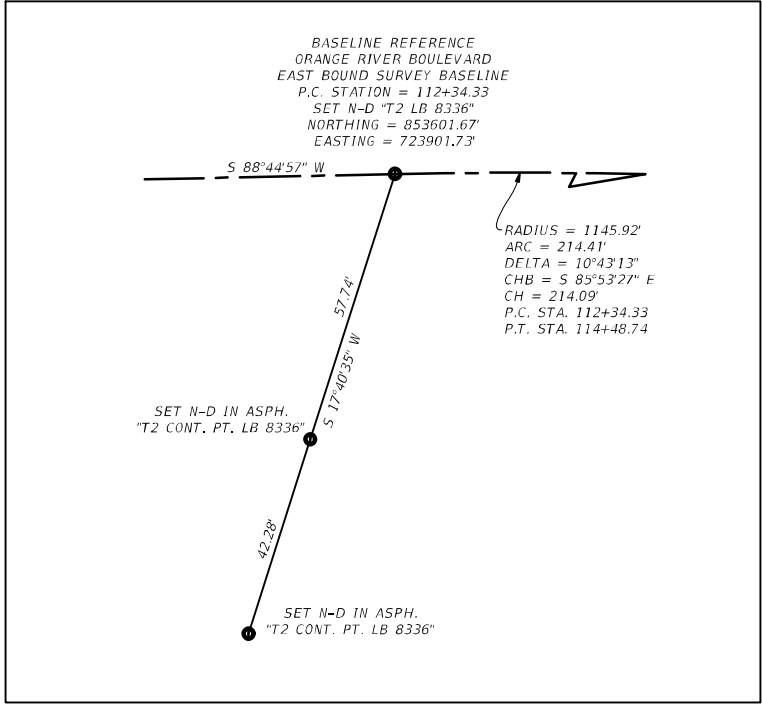
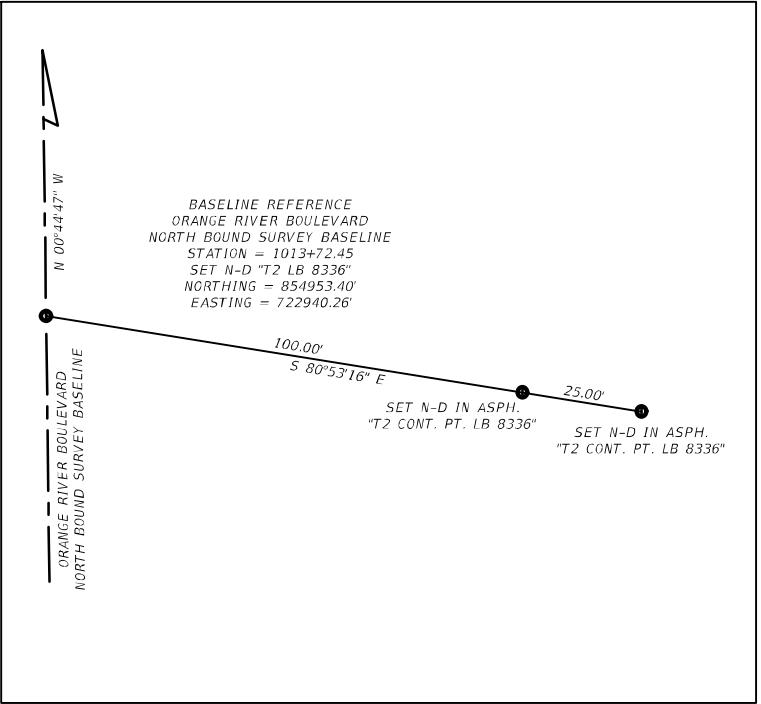
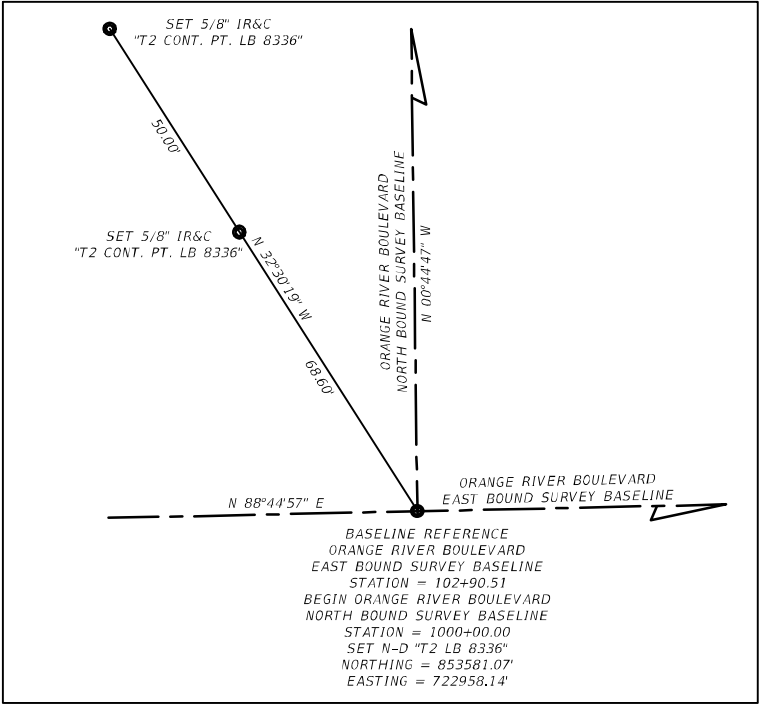
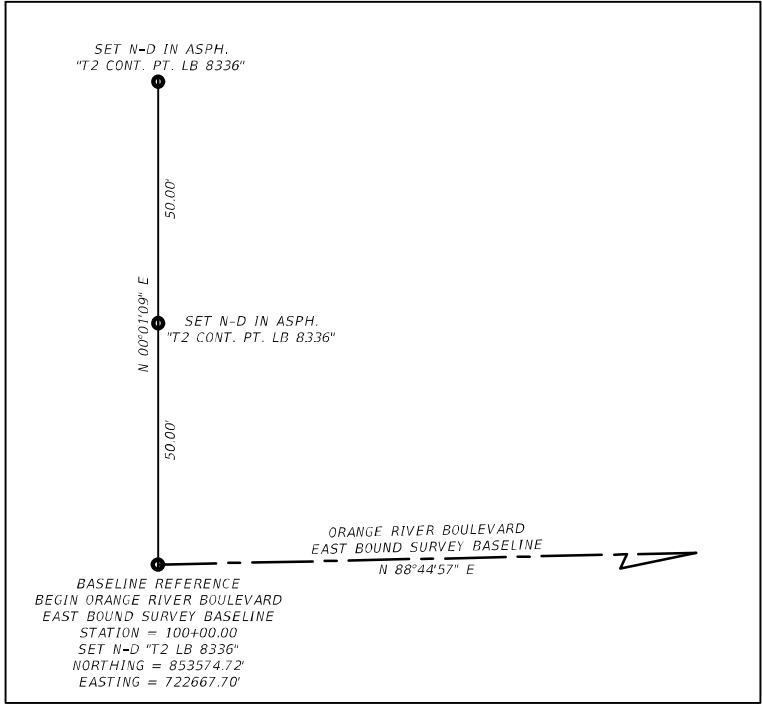
COUNTY	PROJECT #
LEE COUNTY	20-0016A

DRAINAGE MAP

SHEET NO.
06

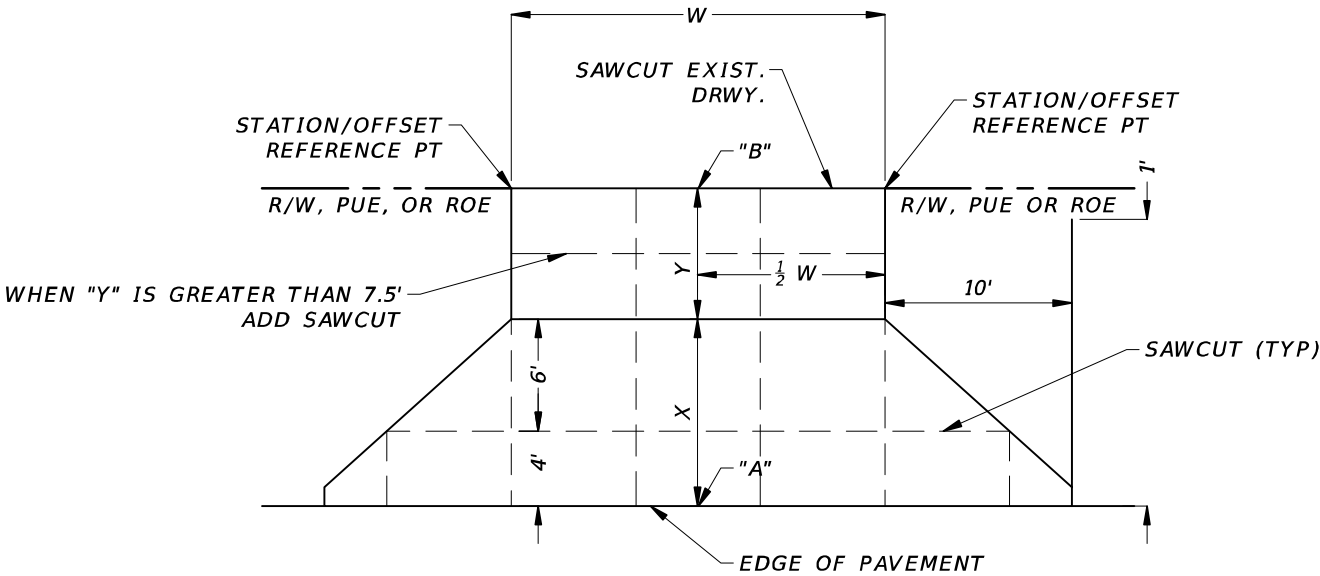


REVISIONS				CW3 Engineering, Inc.	CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		PROJECT LAYOUT	SHEET NO. 07
DATE	DESCRIPTION	DATE	DESCRIPTION			COUNTY	PROJECT #		
						LEE COUNTY	20-0016A		



REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		PROJECT CONTROL SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		
								08

SUMMARY OF DRIVEWAYS																			
LOCATION			SIDE	Driveway ID	LOCATION			EXIST. DRIVEWAY MATERIAL	PROP. DRIVEWAY MATERIAL	WIDTH (FT)	DISTANCE 'X' (FT)	DISTANCE 'Y' (FT)	ELEV. A (FT)	ELEV. B (FT)	CONCRETE REMOVAL		CONC DRIVEWAY 8" THICK		DESIGN NOTES
															110-4		0522 X		
STA. TO STA.					OFFSET TO OFFSET										SY		SY		
															P	F	P	F	
103+59.39		103+83.39	RT	DWY-01	23.00		23.03	GRAVEL	CONCRETE	24.0	10.0	18.0	16.86	16.85	0		86		
104+85.42		105+09.42	RT	DWY-02	41.03		41.35	GRAVEL	CONCRETE	24.0	10.0	18.0	*16.60	*16.01	0		86		
105+51.47		105+75.47	RT	DWY-03	40.93		40.96	GRASS	CONCRETE	24.0	10.0	18.0	16.54	16.06	0		86		
106+16.40		106+40.40	RT	DWY-04	41.00		41.04	GRASS	CONCRETE	24.0	10.0	18.0	16.38	15.96	0		86		
107+42.68		107+66.68	RT	DWY-05	30.06		29.94	GRAVEL	CONCRETE	24.0	10.0	7.0	16.42	16.25	0		57		
108+52.17		108+52.01	RT	DWY-06	45.20		65.20	ASPHALT	CONCRETE	20.0	10.0	7.3	15.97	15.84	0		47		DRIVEWAY LOCATED ON OASIS RD.
109+44.13		109+64.13	RT	DWY-07	30.02		30.09	ASPHALT	CONCRETE	20.0	10.0	7.5	16.04	15.90	0		50		
116+00.34		116+24.34	RT	DWY-08	30.04		29.96	GRAVEL	CONCRETE	24.0	10.0	7.5	*15.50	*15.01	0		58		
116+83.87		117+07.87	RT	DWY-09	33.04		32.96	GRAVEL	CONCRETE	24.0	10.0	10.0	*15.52	*14.89	0		67		MAINTAIN 1.5% SLOPE ACROSS S/W
122+16.42		122+40.42	RT	DWY-10	32.96		33.04	GRAVEL	CONCRETE	24.0	10.0	11.0	15.33	14.80	0		68		
SUB-TOTAL																	691		



DRIVEWAY LAYOUT DETAIL
SCALE: N.T.S.

REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		SUMMARY OF DRIVEWAYS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		
								09

SUMMARY OF PAY ITEMS				
PAY ITEM NO.	DESCRIPTION	UNIT		
			GRAND TOTAL	
			PLAN	FINAL
100-1-X	Pre-Construction Video	LS	1	
101-1	Mobilization	LS	1	
102-1	Maintenance of Traffic	LS	1	
104-10-3	Sediment Barrier	LF	3907	
104-18	Inlet Protection System	EA	42	
107-1-1	Litter Removal	AC	24.40	
107-2-4	Mowing (Small Machines)	AC	6.10	
110-1-1	Clearing & Grubbing (3.05 ac.)	LS	1	
110-4-10	Removal of Existing Concrete	SY	73	
110-7-1	Mailbox, F&I	EA	5	
120-1	Excavation, Regular	CY	939.0	
120-6	Embankment	CY	2250.9	
160-4	Type B Stabilization (LBR 40)	SY	2441	
285-706	Optional Base, Base Group 06	SY	1812	
327-70-6	Milling Existing Asphalt Pavement (1.5" Avg. Depth)	SY	2758	
334-1-13	Superpave Asphaltic Concrete, Traffic C, PG67-22	TN	379.2	
425-1-331	Inlet, Curb, Type P-3, <10'	EA	2	
425-1-521	Inlet, Ditch Bottom, Type C, <10'	EA	5	
425-1-531	Inlet, Ditch Bottom, Type C, Modify <10'	EA	1	
425-1-541	Inlet, Ditch Bottom, Type D, <10'	EA	2	
425-1-910	Inlet, Closed Flume, Type I	EA	2	
425-2-41	Manhole, P-7, <10'	EA	7	
425-2-71	Manhole, J-7, <10'	EA	2	
425-X-1	Inlet, ADS Inline Drain	EA	8	
425-X-2	Inlet, ADS Drain Basin	EA	6	
425-4	Modify Existing Drainage Structure, Inlet	EA	1	
425-5	Modify Existing Drainage Structure, Manhole	EA	1	
430-175-118A	Pipe Culvert (Optional Material) (RCP) (18")	LF	1188	
430-175-118B	Pipe Culvert (Optional Material) (ADS HP Storm) (18")	LF	270	
430-175-124A	Pipe Culvert (Optional Material) (RCP) (24")	LF	219	
430-175-124B	Pipe Culvert (Optional Material) (ADS HP Storm) (24")	LF	965	
430-175-130A	Pipe Culvert (Optional Material) (RCP) (30")	LF	31	
430-175-130B	Pipe Culvert (Optional Material) (ADS HP Storm) (30")	LF	623	
430-175-224	Pipe Culvert (Optional Material) (ERCP) (19"x30")	LF	36	
430-175-248	Pipe Culvert (Optional Material) (ERCP) (38"x60")	LF	55	
430-982-641	Mitered End Section (Elliptical) (38"x60"), CD	EA	1	
430-984-125	Mitered End Section (Round) (18"), SD	EA	11	
430-984-129	Mitered End Section (Round) (24"), SD	EA	1	
430-984-629	Mitered End Section (Elliptical) (19"x30"), SD	EA	1	
515-2-311	Pedestrian/ Bicycle Railing, Aluminum, 42" Type 1	LF	65	
520-1-10	Concrete Curb & Gutter, Type F	LF	858	
520-2-4	Concrete Curb, Type D	LF	147	
522-2-A	Concrete Sidewalk and Driveways, 6" Thick	SY	2123	
522-2-B	Concrete Sidewalk and Driveways, 8" Thick	SY	757	
524-1-1	Concrete Ditch Pavement, Non Reinforced, 3"	SY	1	
524-1-29	Concrete Ditch Pavement, Reinforced, 4"	SY	51	
527-2	Detectable Warnings	SF	438	
530-3-4	Rip Rap- Rubble, Bank and Shore	TN	64.5	
536-73	Guardrail Removal	LF	257	
570-1-2	Performance Turf, Sod	SY	5409	
654-2-27	Midblock Crosswalk, Rectangular Rapid Flashing Beacon, F&I-Solar, Complete Sign Assembly- Single Direction	AS	2	
700-1-6	Single Sign Post, Remove	AS	22	
700-1-111	Single Sign Post (Furnish & Install) (Less than 125F)	AS	26	
706-1	Raised Pavement Marker	EA	9	
710-90	Painted Pavement Markings - Final Surface	LS	1	
711-11-101	Thermoplastic, Standard, White, Solid, 6"	GM	0.146	
711-11-102	Thermoplastic, Standard, White, Solid, 8"	GM	0.040	
711-11-103	Thermoplastic, Standard, White, Solid, 12"	GM	0.246	
711-11-124	Thermoplastic, Standard, White, Solid, 18"	LF	182	
711-11-125	Thermoplastic, Standard, White, Solid, 24"	LF	802	
711-11-201	Thermoplastic, Standard, Yellow, Solid, 6"	GM	0.043	
711-11-202	Thermoplastic, Standard, Yellow, Solid, 8"	GM	0.011	
711-11-224	Thermoplastic, Standard, Yellow, Solid, 18"	LF	12	
711-11-231	Thermoplastic, Standard, Yellow, Solid, 10'-30' Skip, 6"	GM	0.047	
711-17-137	Thermoplastic, Remove Existing Thermoplastic Pavement Markings- Surface to Remain	SF	33	

R E V I S I O N S					CW3 Engineering, Inc.	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB	SUMMARY OF PAY ITEMS		SHEET NO.
DATE	DESCRIPTION		DATE	DESCRIPTION					
									10
					CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	COUNTY LEE COUNTY	PROJECT # 20-0016A		

SUMMARY OF PAY ITEMS				
PAY ITEM NO.	DESCRIPTION	UNIT		
			GRAND TOTAL	
			PLAN	FINAL
Water System				
1000-10	Utility Pipe, 6" DR18 C900 PVC WM	LF	11	
1000-20	Utility Pipe, 6" DIP CL350 WM	LF	27	
1000-30	Utility Pipe, 8" DIP CL250 WM	LF	162	
1000-40	Utility Pipe, 8" DIP CL350 WM	LF	37	
1000-50	Utility Pipe, 10" DR18 C900 PVC WM	LF	40	
1000-60	Utility Pipe, 10" HDPE DR11 WM, Directional Drill	LF	145	
1000-70	Utility Pipe, 10" DIP CL250 WM	LF	19	
1000-80	Utility Pipe, 12" DR18 C900 PVC WM	LF	1413	
1000-90	Utility Pipe, 12" DIP CL250 WM	LF	342	
1000-100	Utility Pipe, 12" DIP CL350 WM	LF	219	
1000-110	Utility Pipe, 16" HDPE DR11 WM, Directional Drill	LF	298	
1000-120	Utility Pipe, Steel Casing WM, 16"	LF	95	
1000-130	Utility Pipe, Split Steel Casing WM, 24"	LF	16	
1000-140	Utility Fitting, 6" 45° MJ Bend (RJ)	EA	6	
1000-150	Utility Fitting, 8" 45° MJ Bend (RJ)	EA	16	
1000-160	Utility Fitting, 10" 45° MJ Bend (RJ)	EA	4	
1000-170	Utility Fitting, 12" 11.25° MJ Bend (RJ)	EA	2	
1000-180	Utility Fitting, 12" 22.5° MJ Bend (RJ)	EA	2	
1000-190	Utility Fitting, 12" 45° MJ Bend (RJ)	EA	22	
1000-200	Utility Fitting, 10" MJ (RJ) Tee	EA	1	
1000-210	Utility Fitting, 12" MJ (RJ) Tee	EA	10	
1000-220	Utility Fitting, 8" MJ (RJ) Reducer	EA	5	
1000-230	Utility Fitting, 10" MJ (RJ) Reducer	EA	2	
1000-240	Utility Fitting, 12" MJ (RJ) Reducer	EA	2	
1000-250	Utility Fitting, 12" MJ (RJ), Special, Cross	EA	1	
1000-260	Utility Fitting, 16" MJ (RJ) Reducer	EA	2	
1000-270	6" Cut-In Connection	EA	8	
1000-280	12" Cut-In Connection	EA	2	
1000-290	Utility Pipe, Plug & Place Out Of Service and Grout, 6" AC WM	LF	2672	
1000-300	Utility Pipe, Remove & Dispose, 6" AC WM	LF	1344	
1000-310	Utility Pipe, Remove & Dispose, 12"	LF	84	
1000-320	Pressure Testing, Flushing & Chlorination	LS	1	
1100-10	Utility Fixture, 6" MJ (RJ) Gate Valve	EA	1	
1100-20	Utility Fixture, 8" MJ (RJ) Gate Valve	EA	4	
1100-30	Utility Fixture, 10" MJ (RJ) Gate Valve	EA	1	
1100-40	Utility Fixture, 12" MJ (RJ) Gate Valve	EA	8	
1100-50	Utility Fixture, Air Release Valve	EA	4	
1200-10	Single Polytube Water Service, Short, 1"	EA	9	
1200-20	Single Polytube Water Service, Long, 1"	EA	3	
1200-30	Double Polytube Water Service, Short, 1"	EA	3	
1200-40	Single Polytube Water Service, Long, 1.5"	EA	1	
1300-10	Fire Hydrant Assembly (FHA)	EA	6	
1300-20	Fire Hydrant Assembly (FHA), Remove and Dispose	EA	4	

PAY ITEM NOTES

1. 1300- 10- THIS ITEM INCLUDES ALL WORK FROM THE TEE INSTALLED ON THE UTILITY MAIN, ALL NECESSARY PIPING FROM TEE TO THE HYDRANT LOCATION WITH THE INSTALLATION OF BARREL SECTION TO MEET FINISHED GRADE. ALL PIPING SHALL BE SIX-INCH (6") DUCTILE IRON PIPE FROM THE TEE TO THE HYDRANT.

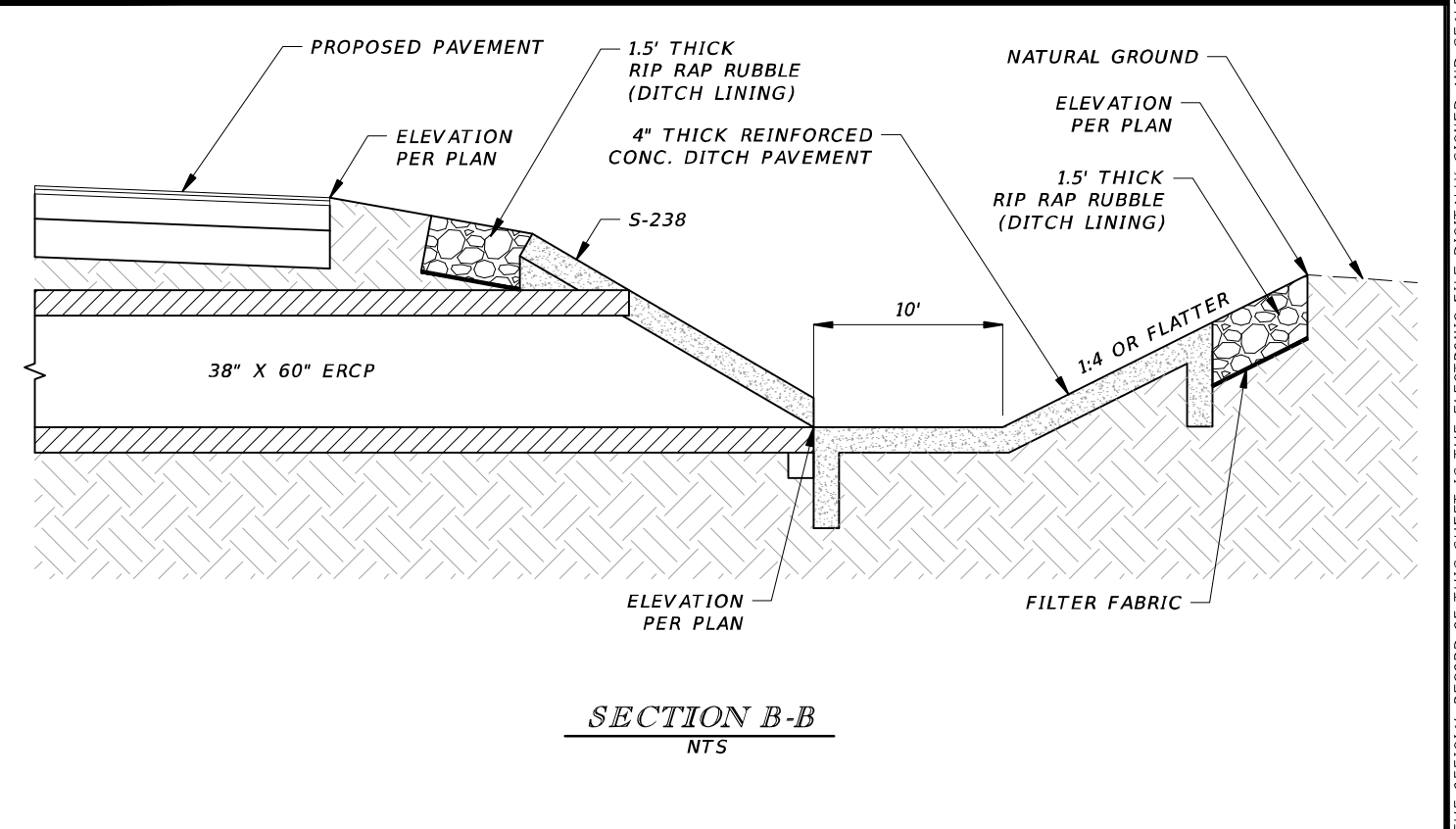
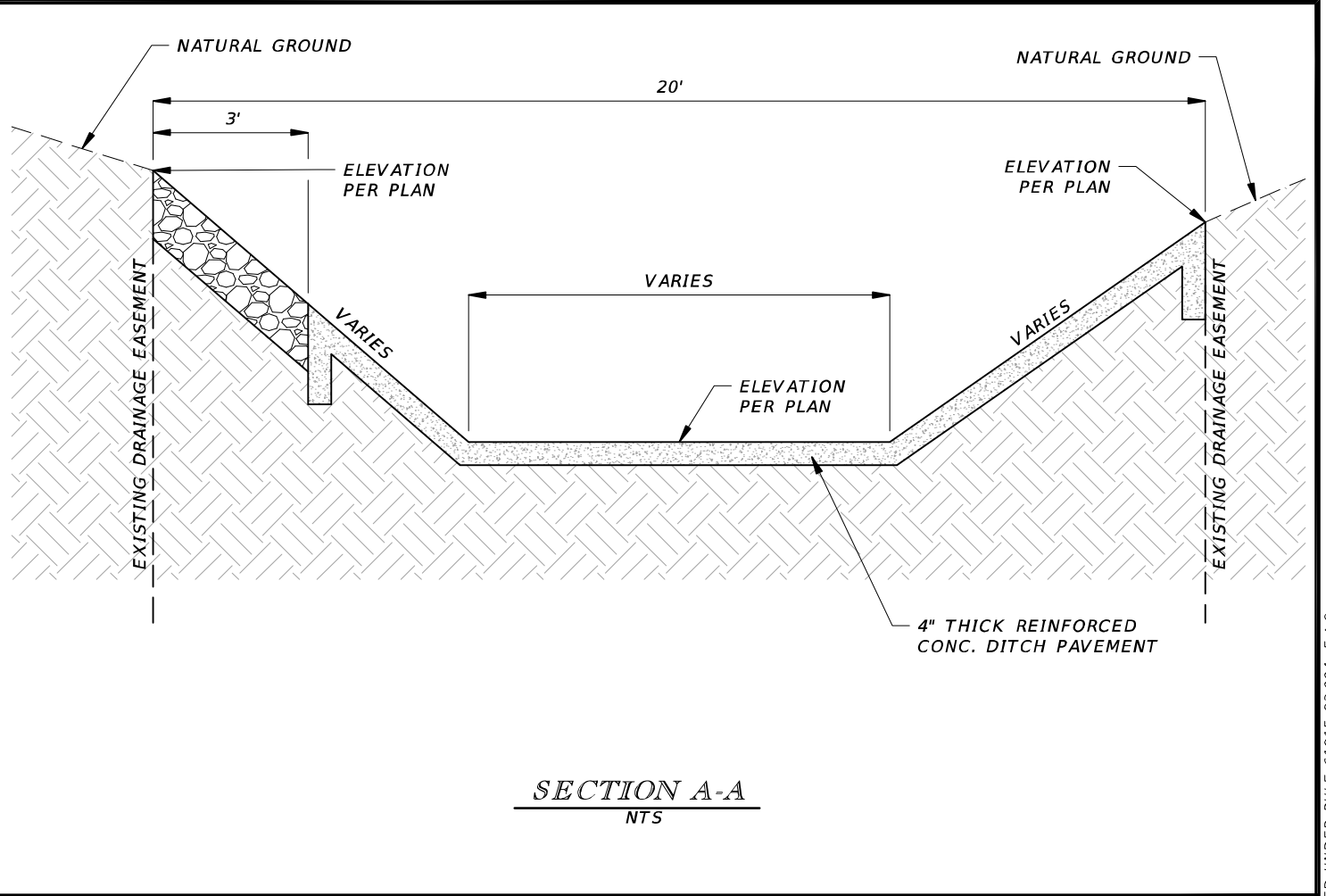
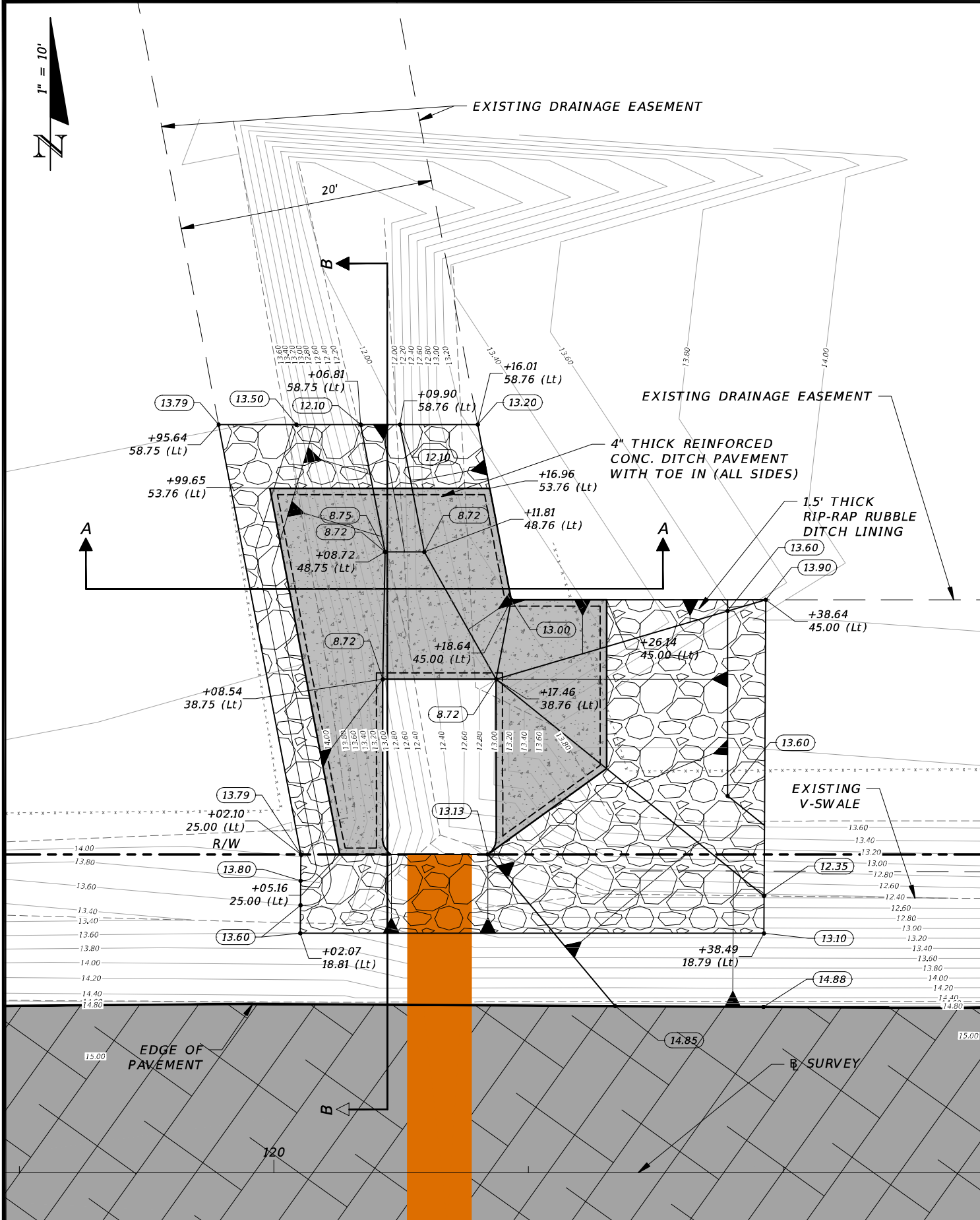
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM AND CROSS DRAIN OPTIONAL TYPE							CURB INLETS	MH	MH	DBI			ADS		CLOSE D FLUME INLET	MITERED END SECTION				MOD. DR. STR.	REMARKS	
					ROUND SHAPE RCP			ELLIPTICAL RCP		ADS HP STORM			P-3	J-7	P-7	C	C (MOD)	D	DRAIN BASIN	INLINE DRAIN							TYPE I
					18"	24"	30"	19"X30"	38"X60"	18"	24"	30"	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	<10'	18"	24"	19"X30"		38"X60"
S-112	14+25.73	Lt.	MES SD	1	43																1						
S-110	14+72.00	Lt.	DBI	1	238										1												
S-109	17+14.00	Lt.	DBI	1	239										1												
S-108	17+14.00	Lt.	CLOSED FLUME INLET	1															1							WITH TOE WALL	
S-106	19+57.00	Lt.	DBI	1	134										1												
S-105	19+57.00	Lt.	CLOSED FLUME INLET	1															1							WITH TOE WALL	
S-104	20+93.50	Lt.	INLET	1	164							1															
S-103	22+61.52	Lt.	INLET	1	55							1															
S-102	23+21.08	Lt.	MH	1	4									1													
S-200	102+36.50	Rt.	MES SD	1		165															1						
S-201	104+02.50	Rt.	DRAIN BASIN	1														1									
S-201A	104+02.50	Rt.	MH	1							13			1													
S-202	104+65.50	Rt.	DBI	1							61								1								
S-203	105+30.50	Rt.	DBI	1							63								1								
S-204	105+96.00	Rt.	DRAIN BASIN	1								50							1								
S-205	106+47.50	Rt.	DRAIN BASIN	1								53							1								
S-208	107+02.50	Rt.	DRAIN BASIN	1								85							1								
S-210	107+87.50	Rt.	DRAIN BASIN	1								18							1								
S-211	108+07.56	Rt.	MH	1			31						1													5' DIAMETER	
S-212	108+06.50	Rt.	MES SD	1	17															1							
S-213	108+43.00	Rt.	MH	1								54					1										
S-214	108+43.00	Rt.	MES SD	1	49															1							
S-300	108+67.16	Lt.	DBI	1	47											1									1	BOSW INLET, 24" WIDE SLOT	
S-216	108+98.50	Rt.	INLINE DRAIN	1								100							1								
S-301	109+20.26	Lt.	INLET	1																					1	REPLACE INLET W/ STEEL GRATE	
S-218	110+00.00	Rt.	DBI	1								152					1										
SHEET TOTAL - SUB QUANTITY					990	165	31	0	0	0	137	512	2	1	2	3		2	2	6	2	3	1	0	0	2	

REVISIONS					CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		SUMMARY OF DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION		DATE			COUNTY	PROJECT #		
						LEE COUNTY	20-0016A		
									11

STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM AND CROSS DRAIN OPTIONAL TYPE							CURB INLETS	MH	MH	DBI			ADS		CLOSE D FLUME INLET	MITERED END SECTION				MOD. DR. STR.	REMARKS	
					ROUND SHAPE RCP			ELLIPTICAL RCP		ADS HP STORM					P-3	J-7	P-7	C	C (MOD)								D
					18"	24"	30"	19"X30"	38"X60"	18"	24"				30"	<10'	<10'	<10'	<10'		<10'	<10'	<10'	<10'	18"		24"
S-302	110+00.00	Lt.	MES		20																1						
S-220	111+55.50	Rt.	INLINE DRAIN	1							111								1								
S-222	112+67.00	Rt.	DRAIN BASIN	1							60							1									
S-225	113+85.00	Rt.	MH	1							32			1													
S-227	115+54.50	Rt.	DRAIN BASIN	1							166							1									
S-228	116+71.50	Rt.	INLINE DRAIN	1							113								1								
S-230	117+54.50	Rt.	DRAIN BASIN	1						50	79							1									
S-232	118+07.60	Rt.	MH	1	44									1													
S-233	118+11.08	Rt.	MES SD	1	12																1						
S-234	118+55.00	Rt.	MH	1						138				1													
S-235	118+55.00	Rt.	MES SD	1	13																1						
S-236	119+95.00	Rt.	DRAIN BASIN	1	14													1									
S-238	120+12.98	Lt.	MES CD																				1			CD 1:4	
S-239	120+12.98	Rt.	MH	1					55				1													7'X4', ALT. B	
S-240	120+31.00	Rt.	DRAIN BASIN	1		15												1									
S-242	121+46.29	Rt.	MH	1							111			1													
S-243	121+48.91	Rt.	MES SD	1	12																1						
S-244	121+89.00	Rt.	DBI	1		39									1												
S-245	121+89.00	Rt.	MES SD	1	12																1						
S-246	124+59.00	Rt.	DRAIN BASIN	1							267							1									
S-248	124+80.00	Rt.	MH	1						18				1													
S-249	124+83.00	Rt.	MES SD	1	13																1						
S-250	125+27.74	Rt.	DBI	1	45										1												
S-251	125+30.00	Rt.	MES SD	1	13																1						
S-252	125+93.00	Rt.	MES SD	1						64											1						
S-303	122+57.50	Lt.	MES SD	1				36															1				
SHEET TOTAL- SUB QUANTITY					198	54	0	36	55	270	828	111	0	1	5	2	0	0	6	2	0	8	0	1	1	0	
GRAND TOTAL - FINAL QUANTITY					1188	219	31	36	55	270	965	623	2	2	7	5	1	2	8	8	2	11	1	1	1	2	

REVISIONS					CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		SUMMARY OF DRAINAGE STRUCTURES		SHEET NO. 12
DATE	DESCRIPTION		DATE			COUNTY	PROJECT #			
						LEE COUNTY	20-0016A			



REVISIONS				CW3 Engineering, Inc.	CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB	DRAINAGE DETAILS		SHEET NO. 13
DATE	DESCRIPTION	DATE	DESCRIPTION						

INSERTA TEE® ONEFIT™

What is the Inserta Tee OneFit™?

A OneFit is made for a specific lateral bell (N12, SDR, IPS) type and size and has an adjustable two-rubber sleeve design to fit any mainline pipe type (removal of inner segment from inner sleeve required for clay and concrete mainlines).

PART #	PART NAME
1	PVC HUB
2	INNER SLEEVE
3	ADJUSTABLE OUTER SLEEVE
4	S.S. BAND
5	ADJUSTABLE MAINLINE RANGE (0.25" - 3.50")
6	INNER SEGMENT
7	OVERALL LENGTH

CONFIGURATION OPTIONS		
Lateral	Mainline	Overall length
4"	10"-12"	10.00"
	15"+	10.50"
6"	10"-12"	10.50"
	15"+	10.50"
8"	12"-15"	11.75" (17.00" for IPS SCH40)
	18"+	11.75" (17.00" for IPS SCH40)

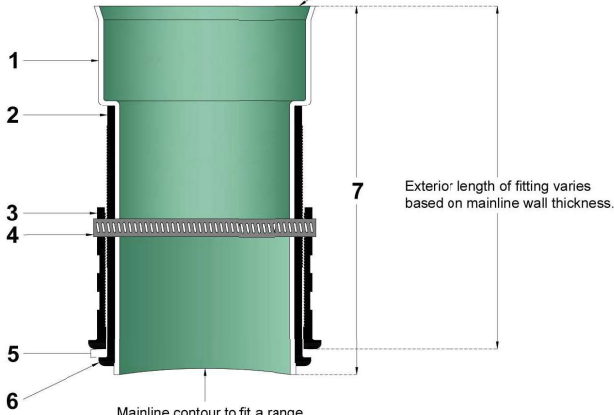
OneFit utilizes the same holesaws as other inserta tee products. Reference STD-1102 for more information.

NOTE: FOR INSTALLATION INSTRUCTIONS, REFER TO DETAIL STD-1100. FOR PROTRUSION INFORMATION, REFER TO DETAIL STD-1101. FOR HOLE SAW INFORMATION, REFER TO DETAIL STD-1102.

ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

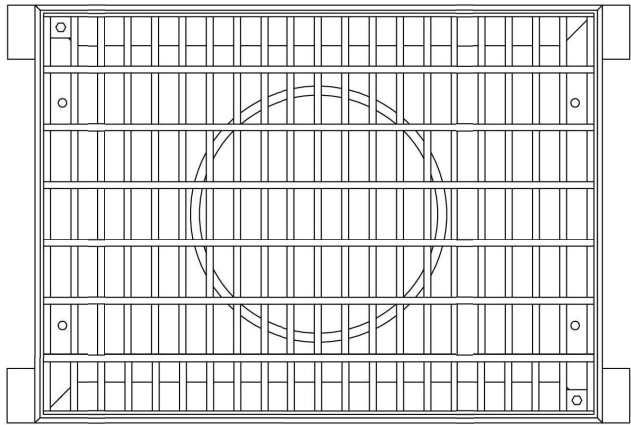
INSERTA TEE ONEFIT			4340 TRUEMAN BLVD HILLIARD, OH 43026
DRAWING NUMBER	STD-1111		

PVC, IPS, and N-12 options available.
-For PVC bell info, refer to STD-1106 (Not Fatboy) & STD-1109
-For N-12 bell info, refer to STD-1105
-For IPS bell info, refer to STD-1108



Installation instructions/video at adsonefit.com

3299CGRSBL



5/16" - 18 X 1 1/2" HEX HEAD BOLT
ZINC PLATED STEEL
2 PLACES

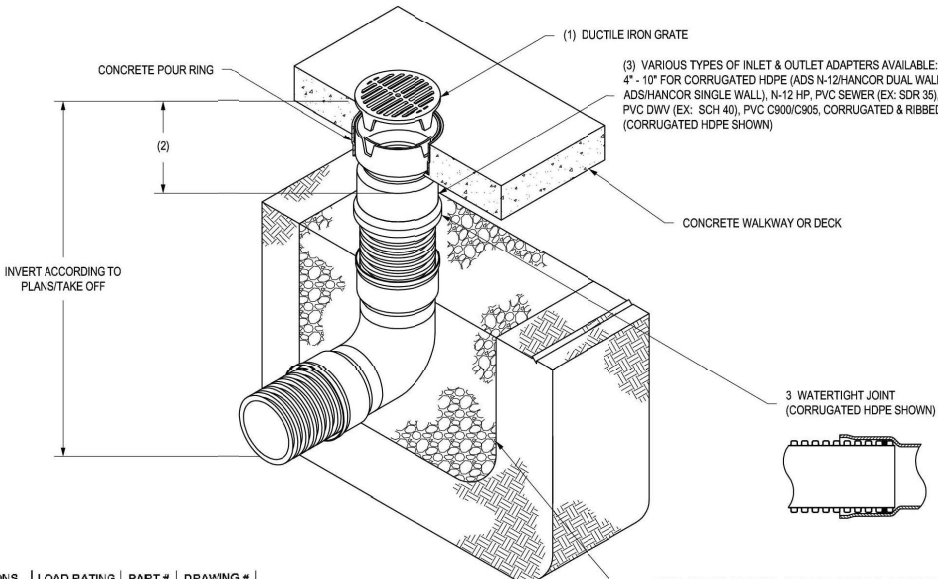
NOTE: LOCATION OF LOCKING DEVICE MAY VARY

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.

DRAWN BY	EBC	MATERIAL
DATE	2-13-06	
REVISED BY	EBC	PROJECT NO./NAME
DATE	6-28-11	
DWG SIZE	A	SCALE 1:8 SHEET 1 OF 1

	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2480 www.nyloplast-us.com
TITLE	2 FT X 3 FT STEEL BAR LOCKING GRATE ASSEMBLY
DWG NO.	7001-110-180 REV C

NYLOPLAST 10" INLINE DRAIN: 2710AG __ X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN/STANDARD	LIGHT DUTY	1099CGB	7001-110-188
SOLID COVER	LIGHT DUTY	1099CGB	7001-110-189
BRONZE	N/A	1099CGB	7001-110-200
COBALT	N/A	1099CGB	7001-110-201

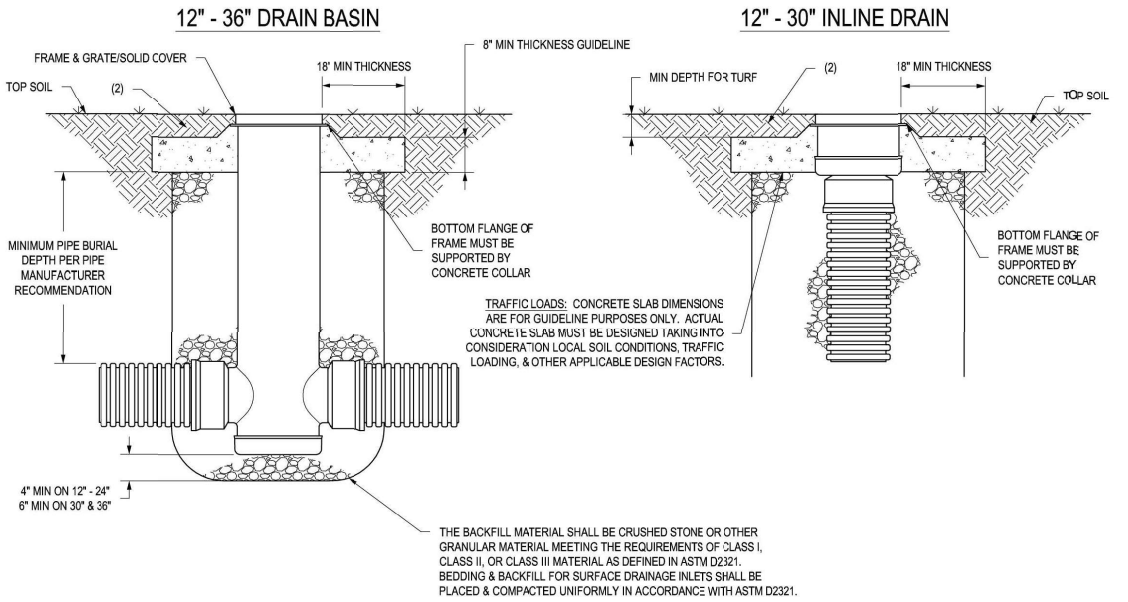
- 1 - GRATES/SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05 WITH THE EXCEPTION OF THE BRONZE GRATE.
- 2 - FOR COMPLETE DESIGN DETAILS SEE DRAWING NO. 7003-110-001.
- 3 - DRAINAGE CONNECTION STUD JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL) & PVC SEWER.

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.

DRAWN BY	EBC	MATERIAL
DATE	11-15-06	
REVISED BY	NMH	PROJECT NO./NAME
DATE	03-15-11	
DWG SIZE	A	SCALE 1:16 SHEET 1 OF 1

	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2480 www.nyloplast-us.com
TITLE	10 IN INLINE DRAIN QUICK SPEC INSTALLATION DETAIL
DWG NO.	7003-110-034 REV F

NYLOPLAST TURF TRAFFIC INSTALLATION



1. GRATES/SOLID COVERS SHALL MEET H-20 LOAD RATING FOR 30" PEDESTRIAN & 12" - 30" STANDARD & SOLID.
2. DESIGN SHOULD ACCOUNT FOR ROOT DEPTH TO ALLOW TURF TO GROW AND PREVENT EROSION AROUND GRATE SO THAT HAZARDS DO NOT FORM.
3. 36" DRAIN BASIN REQUIRES 36"x30" REDUCING CONE. REDUCING CONE REQUIRES 2.25FT MINIMUM FROM GRADE TO TOP OF PIPE.

THIS PRINT DISCLOSES SUBJECT MATTER IN WHICH NYLOPLAST HAS PROPRIETARY RIGHTS. THE RECEIPT OR POSSESSION OF THIS PRINT DOES NOT CONFER, TRANSFER, OR LICENSE THE USE OF THE DESIGN OR TECHNICAL INFORMATION SHOWN HEREIN. REPRODUCTION OF THIS PRINT OR ANY INFORMATION CONTAINED HEREIN, OR MANUFACTURE OF ANY ARTICLE HEREFROM, FOR THE DISCLOSURE TO OTHERS IS FORBIDDEN, EXCEPT BY SPECIFIC WRITTEN PERMISSION FROM NYLOPLAST.

DRAWN BY	EBC	MATERIAL
DATE	01-05-06	
REVISED BY	NMH	PROJECT NO./NAME
DATE	06-12-11	
DWG SIZE	A	SCALE 1:25 SHEET 1 OF 1

	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2480 www.nyloplast-us.com
TITLE	DRAIN BASIN & INLINE DRAIN TURF TRAFFIC INSTALLATION
DWG NO.	7001-110-340 REV G

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION



CW3 ENGINEERING, INC.
5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

ORANGE RIVER BLVD. SIDEWALK AND
WATERMAIN REPLACEMENT CN200224JJB

COUNTY	PROJECT #
LEE COUNTY	20-0016A

**ADS NYLOPLAST DRAINAGE
STRUCTURE DETAILS**

SHEET
NO.

13A

GENERAL CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE EXISTING CONDITIONS OF THE SITE TO VERIFY ALL CHARACTERISTICS THAT ARE PRESENT. HE/SHE SHALL UNDERSTAND THE DEMOLITION AREA(S) AND THE REQUIREMENTS FOR REMOVAL FOR ITEMS SUCH AS BUT NOT LIMITED TO: ALL PAVEMENT, SURFACE STRUCTURES, VEGETATION, TREES, UTILITIES (ABOVE & BELOW GROUND), ETC. VERIFICATION OF LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES (WATER, SEWER, POWER, TELEPHONE, CABLE, GAS, ETC.) AND DRAINAGE TO BE CONNECTED TO SHALL BE CONDUCTED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ALL POTENTIAL CONFLICTS BETWEEN EXISTING AND PROPOSED FEATURES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES IN THESE CONSTRUCTION PLANS ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION. PRIOR TO THE START OF ANY CONSTRUCTION IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE VARIOUS UTILITIES AND TO MAKE THE NECESSARY ARRANGEMENTS FOR ANY PROTECTION OR RELOCATION TO THESE UTILITIES WITH THE OWNER OF THE UTILITY. THE CONTRACTOR SHALL EXERCISE CAUTION WHEN CROSSING AN UNDERGROUND UTILITY, WHETHER SHOWN ON THE PLANS OR LOCATED BY THE UTILITY COMPANY. ANY DELAY OR INCONVENIENCE CAUSED TO THE CONTRACTOR BY THE PROTECTION OR RELOCATION OF VARIOUS UTILITIES SHALL BE INCIDENTAL, WITH NO ADDITIONAL COMPENSATION ALLOWED. CONTRACTOR SHALL VERIFY ALL QUANTITIES SHOWN AND MAKE HIS/HER BID BASED ON THOSE VERIFICATIONS. IF ANY DISCREPANCIES IN QUANTITIES ARE FOUND, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AS SUCH.

2. THESE DRAWINGS DO NOT INCLUDE INSTRUCTIONS FOR THE CONTRACTOR REGARDING CONSTRUCTION SAFETY OF THE PUBLIC AND THE SAFETY OF HIS PERSONNEL DURING THE CONSTRUCTION AND/OR MAINTENANCE OF THIS PROJECT. ALL SAFETY REGULATIONS ARE TO BE ADHERED TO AND ENFORCED BY THE CONTRACTOR OR HIS REPRESENTATIVE. SHALL BE RESPONSIBLE FOR THE CONTROL AND SAFETY OF THE PUBLIC AND THE SAFETY OF HIS PERSONNEL.

3. ALL PROPOSED DRAINAGE STRUCTURE GRATES AND COVERS SHALL BE TRAFFIC RATED FOR AND CAPABLE OF WITHSTANDING H-20 LOADINGS.

4. THE CONTRACTOR SHALL FILE A NOTICE OF INTENT WITH FDEP AND THE LEE CO. DEPT. OF COMMUNITY DEVELOPMENT A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.

5. NO DEWATERING IS ANTICIPATED FOR THE PROPOSED CONSTRUCTION. IN THE EVENT DEWATERING IS REQUIRED THE CONTRACTOR SHALL APPLY FOR ALL APPLICABLE WATER USE PERMITS AT THAT TIME.

6. CONTRACTOR TO SAW CUT OR CORE DRILL HOLE INTO EXISTING STRUCTURE FOR PROPOSED PIPE CONNECTIONS.

7. CONTRACTOR TO REMOVE ALL SIGNS ALONG THE PROPOSED SIDEWALK/DRAINAGE/UTILITY PATHS. ALL REMOVED SIGNS ALONG THE PROPOSED WORK IS TO BE DELIVERED TO THE LEE COUNTY DEPARTMENT OF TRANSPORTATION SIGN AND MARKING OPERATION CENTER. CONTRACTOR TO COORDINATE DELIVERY WITH LUKE MANSON BY CALLING (239) 533-9546.

8. ALL ONSITE PAVEMENT MARKINGS SHALL BE PERMANENT REFLECTIVE THERMOPLASTIC TRAFFIC PAINT MEETING FDOT REQUIREMENTS.

9. ALL DRAINAGE STRUCTURES WITHIN THE PROPOSED CONSTRUCTION AREA IS TO BE REMOVED UNLESS OTHERWISE NOTED.

10. ALL EXISTING ROADWAY SIGNAGE WITHIN THE PROPOSED CONSTRUCTION AREA IS TO BE REMOVED UNLESS OTHERWISE NOTED.

11. MAILBOXES IDENTIFIED WITH "MB" ARE TO BE REMOVED AN REPLACED.

12. ALL DETECTABLE WARNINGS ARE TO BE WET SET.

13. ALL DRAINAGE STRUCTURES ARE TO HAVE A TWO-FOOT (2') SUMP UNLESS OTHERWISE NOTED.

14. PRIVATE UTILITY OWNERS ARE RESPONSIBLE FOR FOR ALL POLE HOLDS AND/OR POLE RELOCATIONS WITHIN LEE COUNTY R/W AND EASEMENTS DURING CONSTRUCTION. CONTRACTOR TO COORDINATE WITH UTILITY COMPANIES.

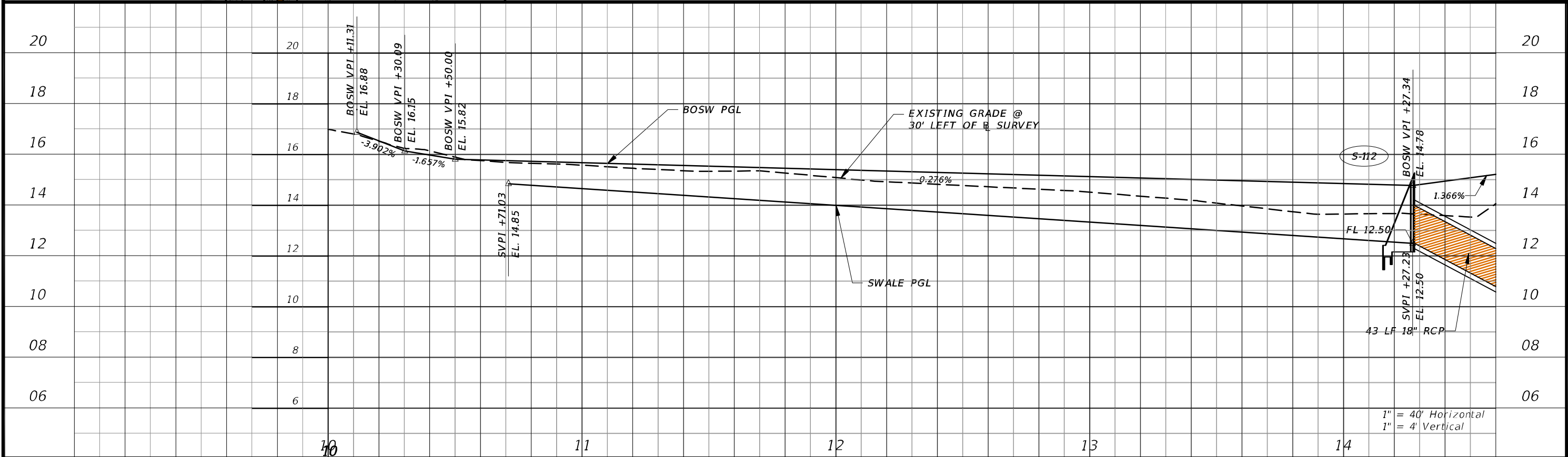
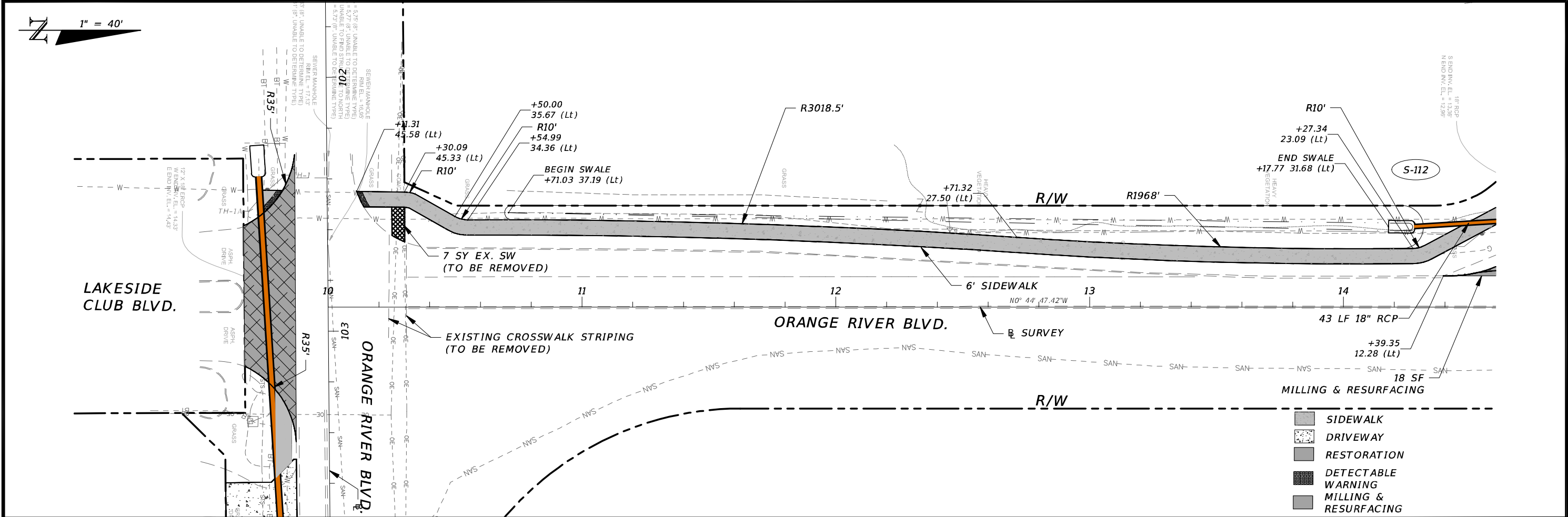
KNOWN UTILITIES:	CABLE:	UTILITY LOCATION	FIBER:
WATER & SEWER:	COMCAST	SERVICE:	SUMMIT BROADBAND
LEE CO. UTILITIES	MARIA NUNEZ	SUNSHINE STATE ONE	JAMES YEAKY
DARRIN WOOD	(754)-221-1254	CALL CENTER	239-571-5910
(239) 533-8178	CROWN CASTLE:	(239) 432-4770	GAS:
CITY OF FORT MYERS:	DANNY HASKETT	(MINIMUM 48 HOURS	TECO GAS
JASON SCIANDRA, P.E.	(786) 246-7827	NOTICE REQUIRED)	KEN SMITH
239-321-7467	AT&T:	POWER:	(239) 690-5506
PHONE/CABLE:	STEVE HAMMER	FP&L	
CENTURY LINK	(813) 888-8300	MICHAEL MARTINEZ	
BILL McCLOUD	SIGNAL:	(239) 415-1236	
(850) 599-1444	LEE COUNTY SIGNAL	LCEC	
	MIKE PADGETT	TOM BAILEY	
	(239) 533-9500	(239) 656-2414	

UTILITY COORDINATION NOTES:

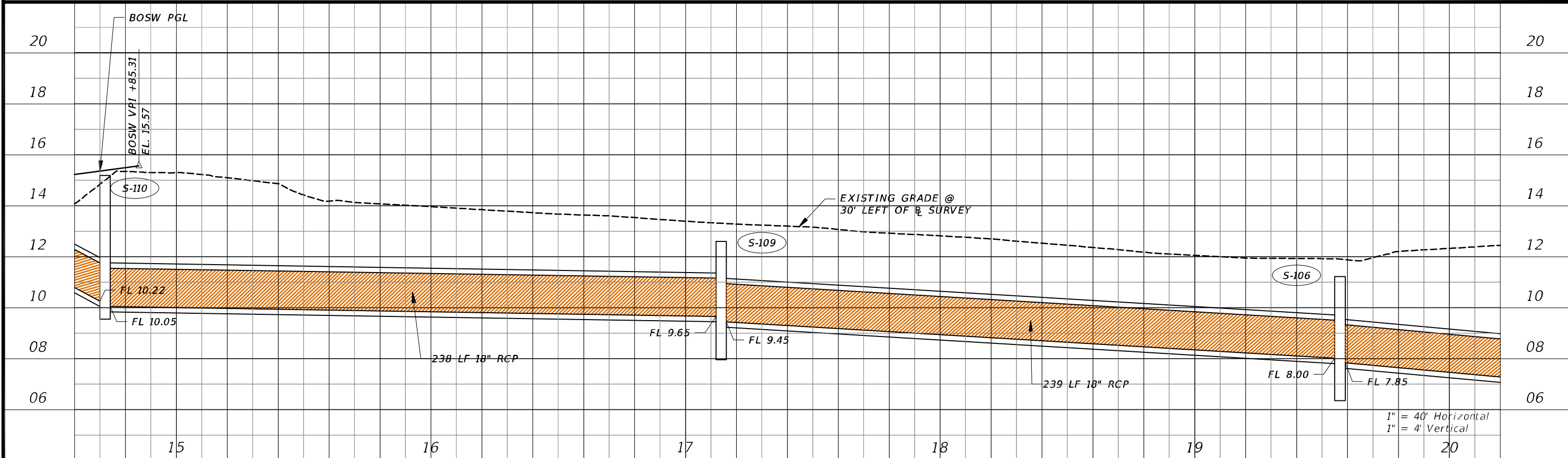
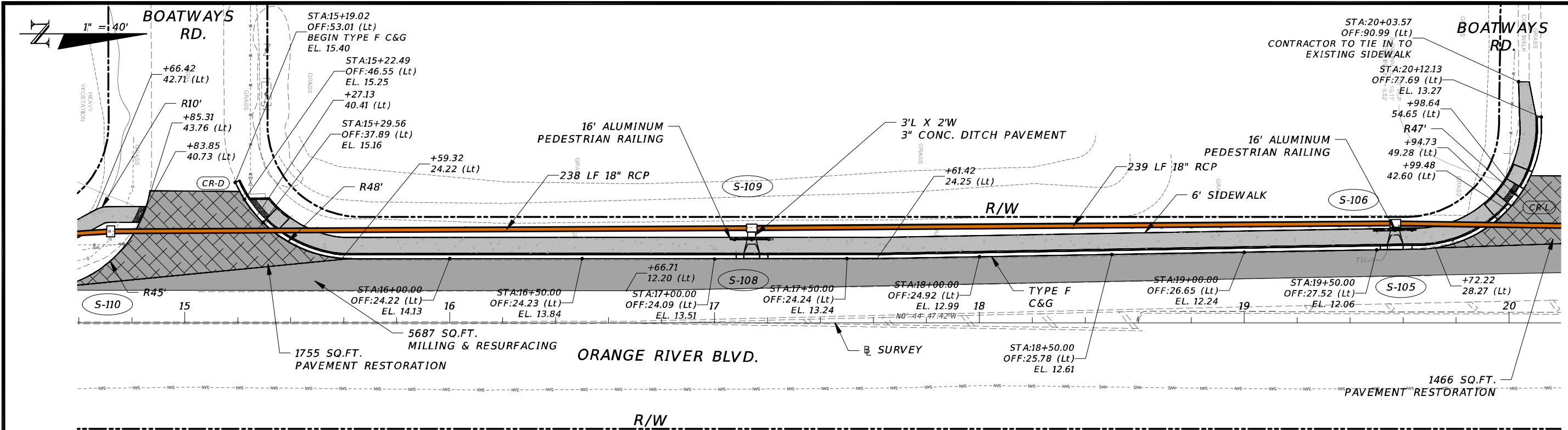
1. UTILITY COORDINATION AND NOTIFICATION OF ALL PARTIES IS THE CONTRACTORS RESPONSIBILITY FOR CONSTRUCTION, TESTING, INSPECTION AND CERTIFICATION.

2. THE CONTRACTOR SHALL NOTIFY UTILITY OWNERS OF ANY EXCAVATION THROUGH SUNSHINE ONE-CALL OF FLORIDA, INC. (1-800-432-4770) AND SHALL ALSO NOTIFY THOSE UTILITY OWNERS/AGENCIES LISTED WITHIN OR IMPACTED BY THESE PLANS, NOT LESS THAN (2) FULL BUSINESS DAYS IN ADVANCE OF THE BEGINNING OF CONSTRUCTION

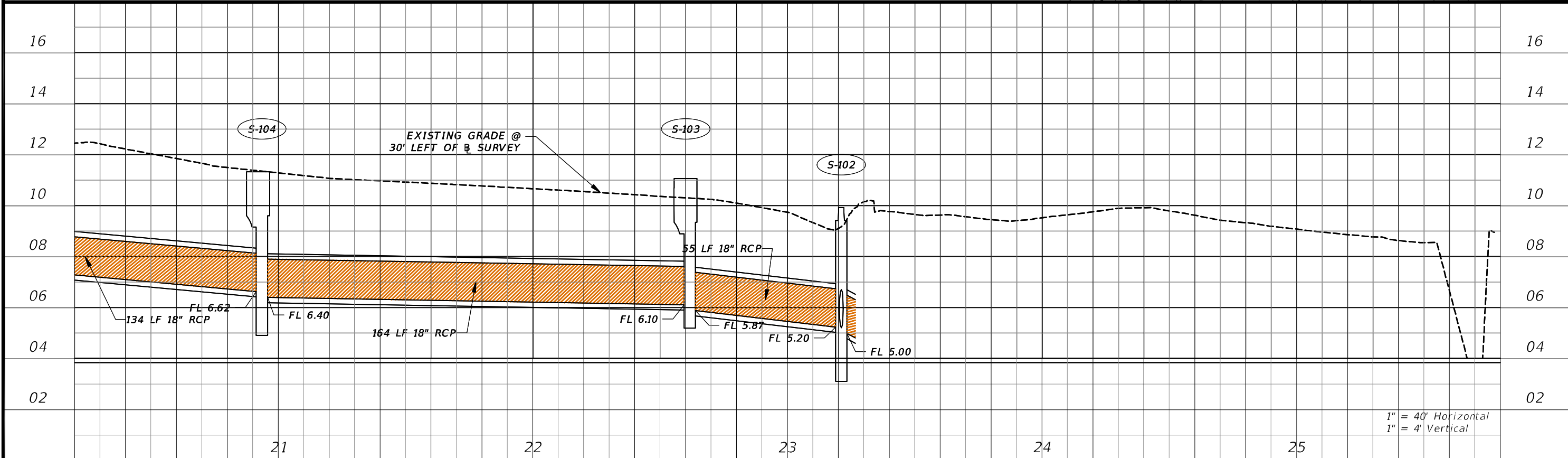
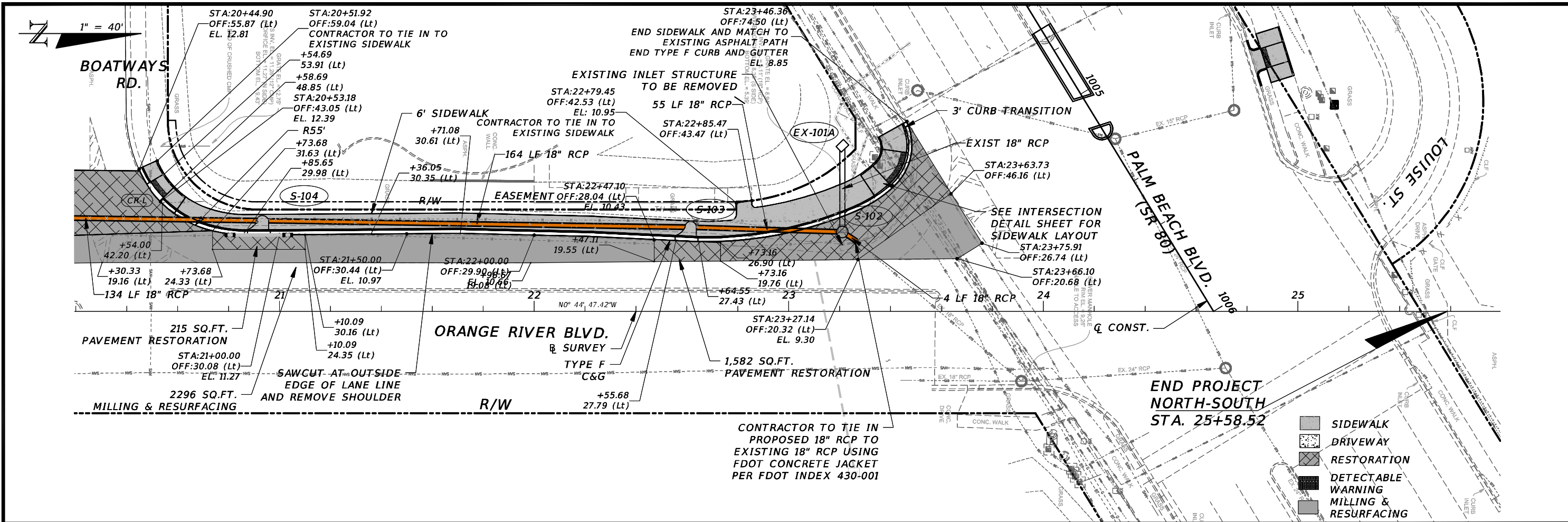
R E V I S I O N S				CW3 Engineering, Inc. CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					
					COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		14



REVISIONS				CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		SIDEWALK PLAN AND PROFILE	SHEET NO. 15
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		

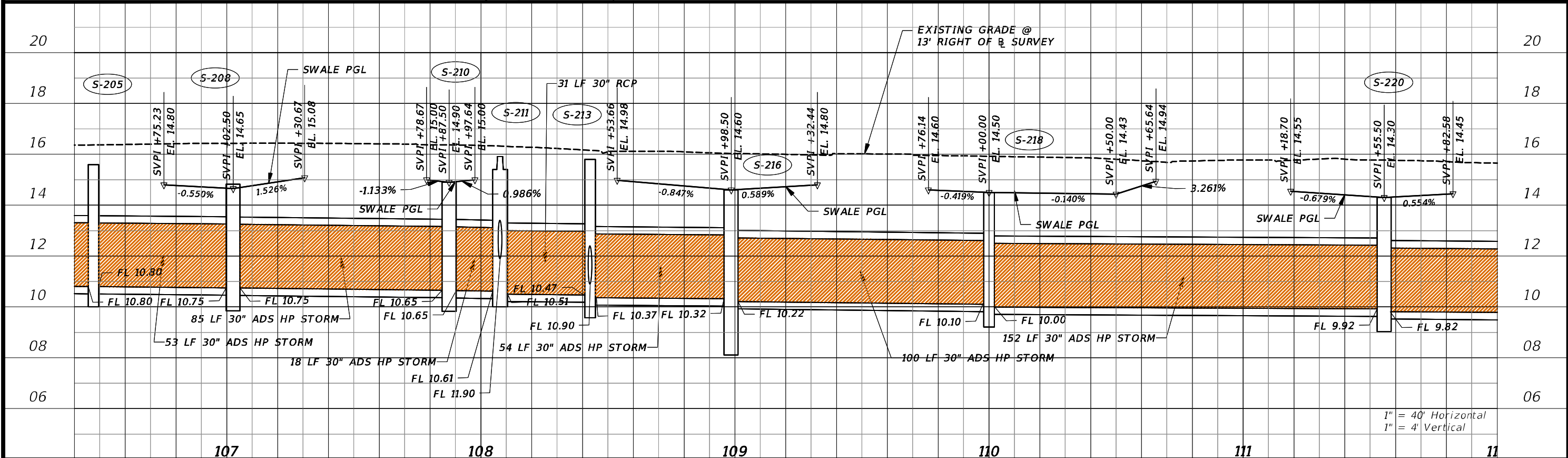
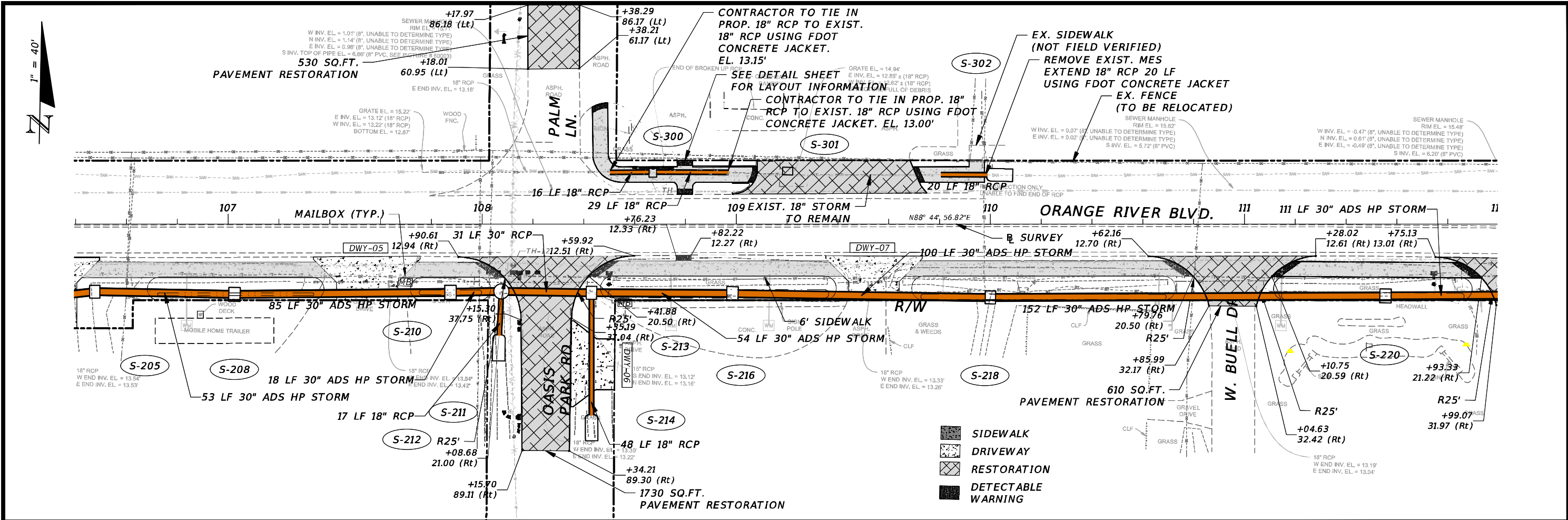


REVISIONS				CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		SIDEWALK PLAN AND PROFILE		SHEET NO. 16
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #			
					LEE COUNTY	20-0016A			

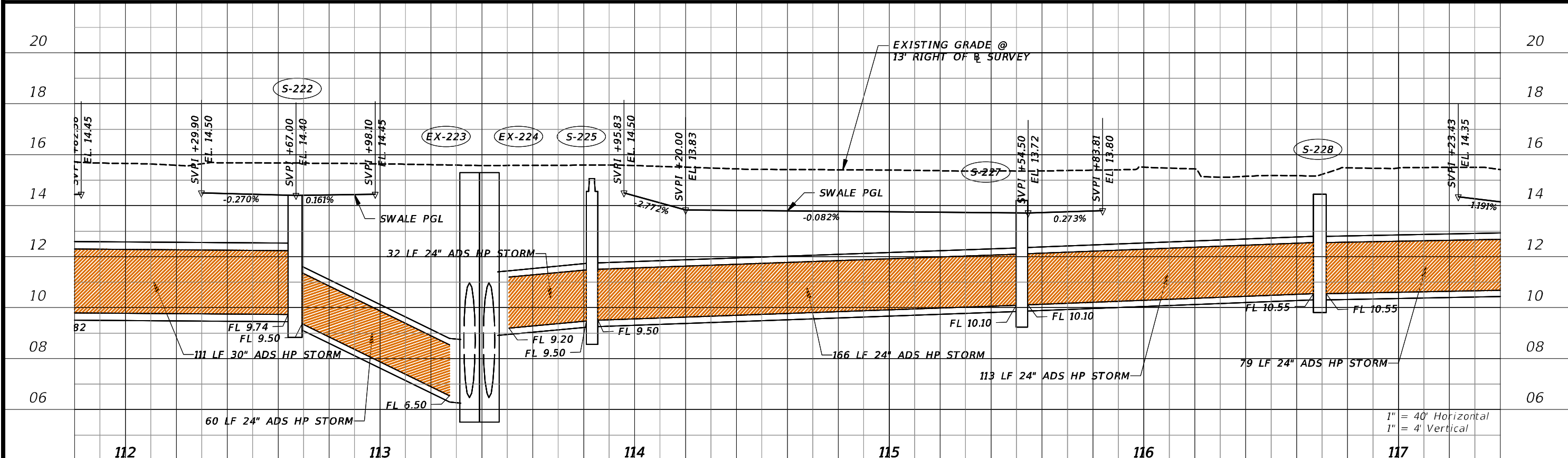
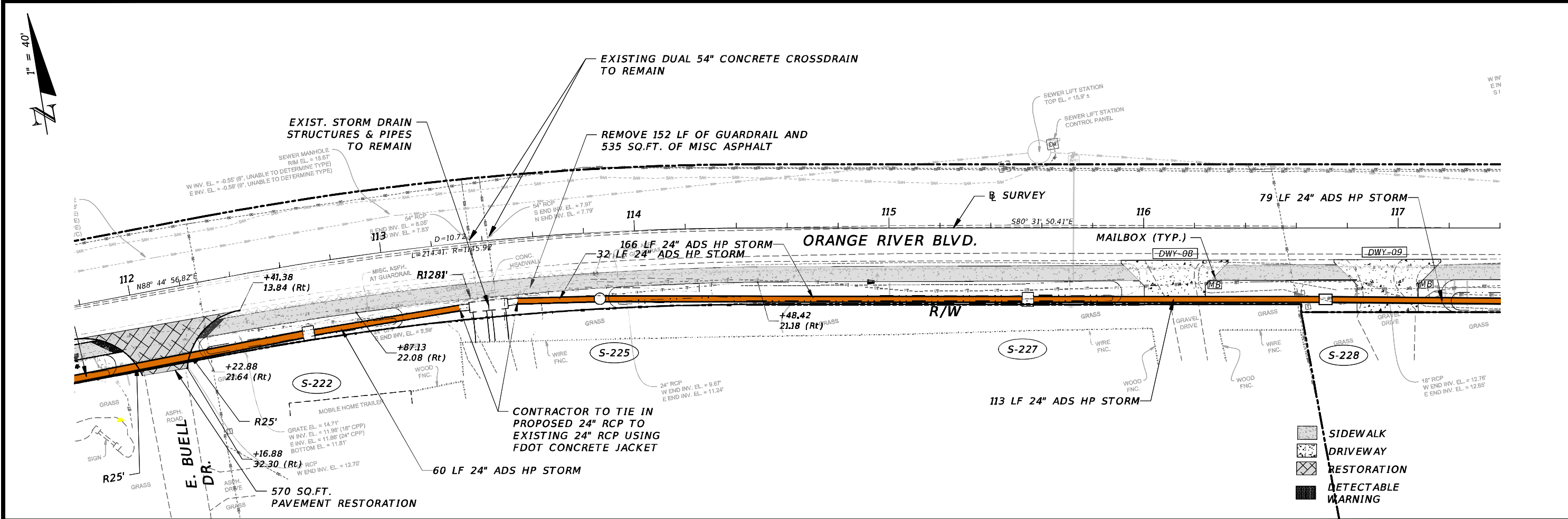


REVISIONS				CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		SIDEWALK PLAN AND PROFILE		SHEET NO. 17
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #			
					LEE COUNTY	20-0016A			

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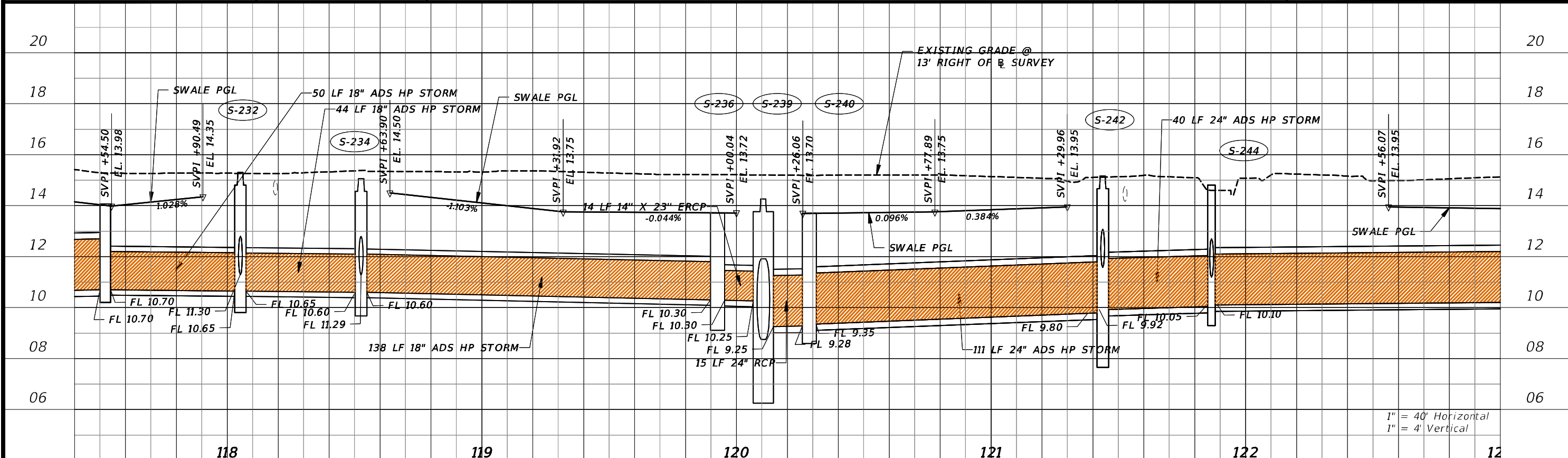
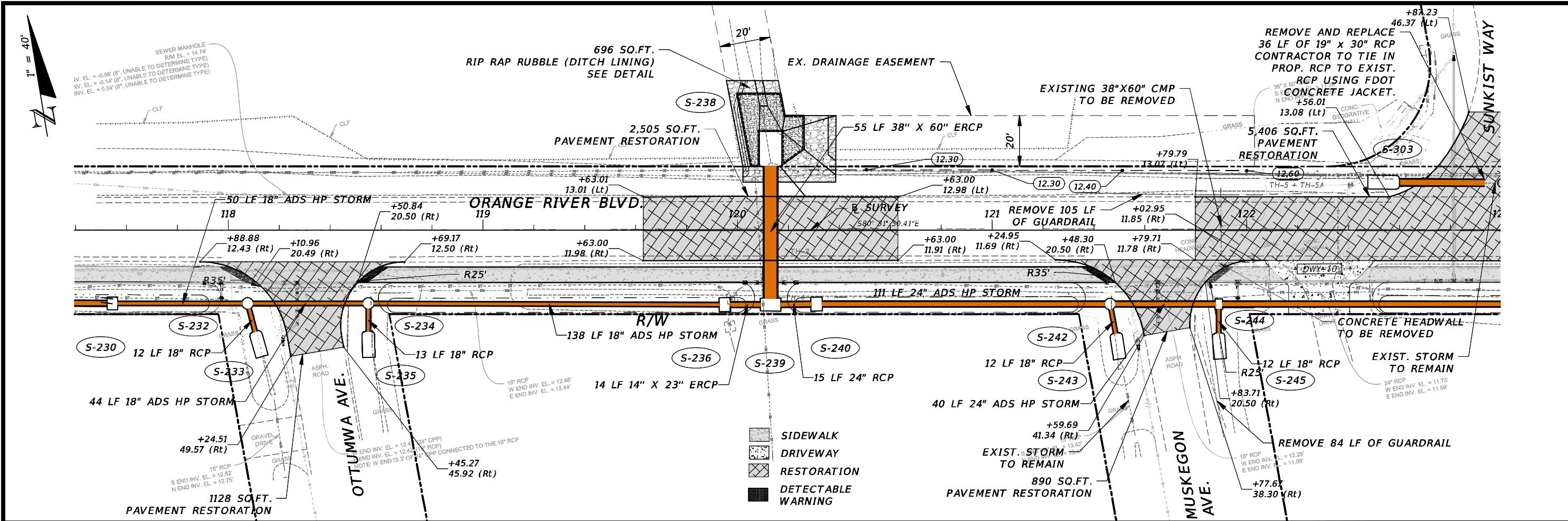


REVISIONS				CW3 ENGINEERING, INC.	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		SIDEWALK PLAN AND PROFILE	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
				5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	LEE COUNTY	20-0016A		19

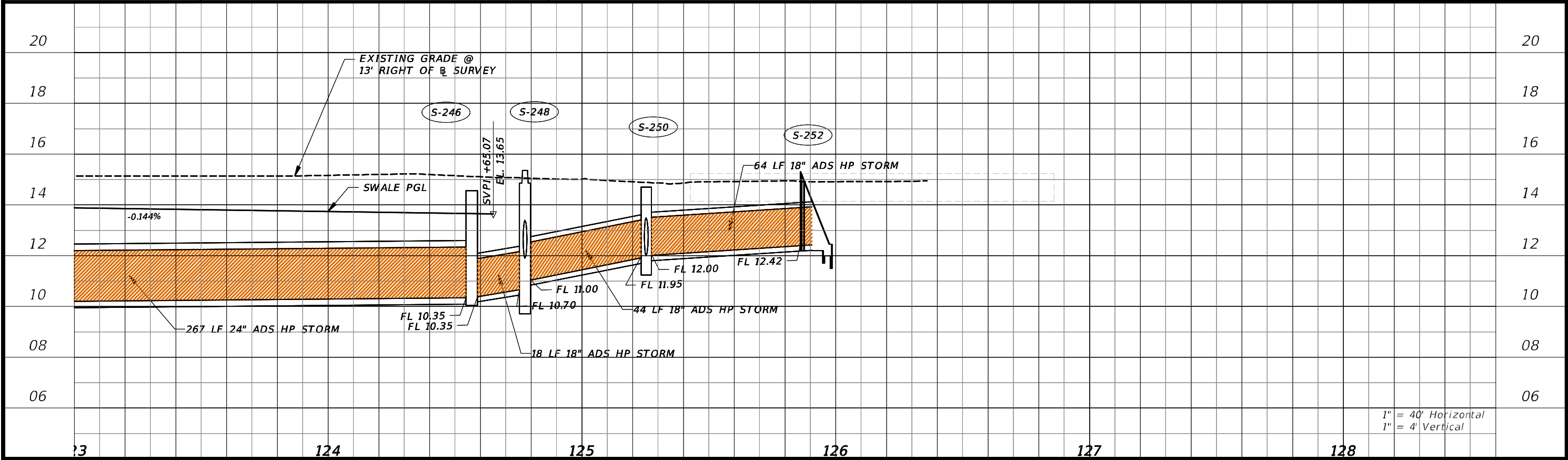
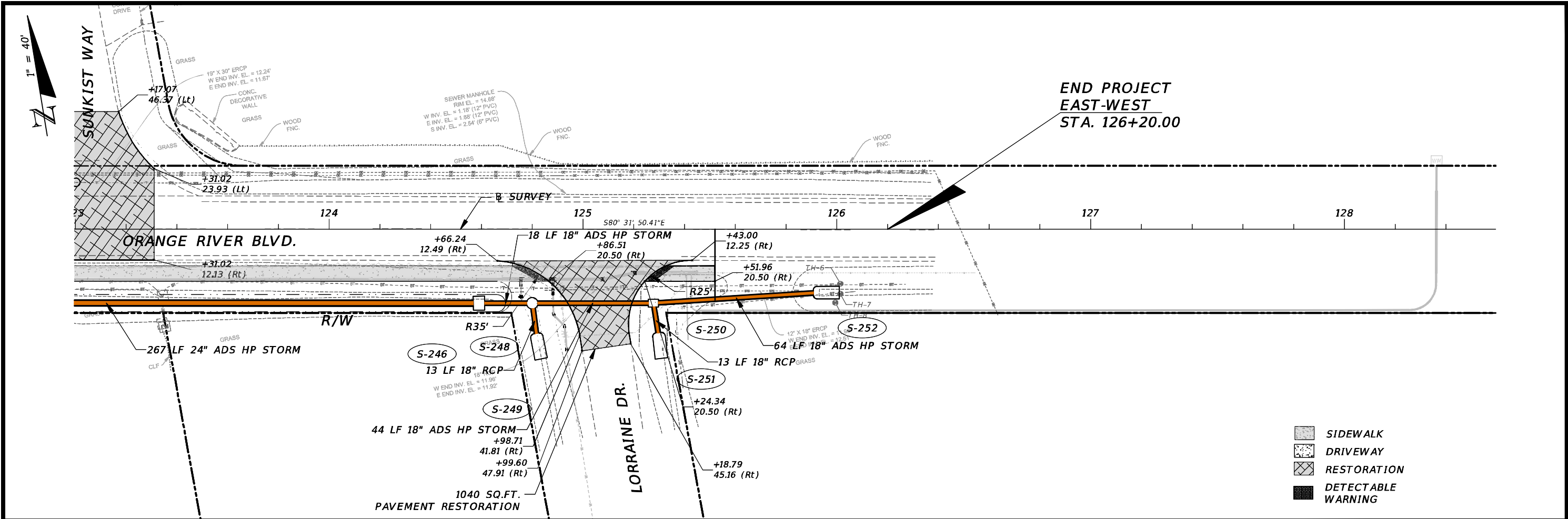


REVISIONS				CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		SIDEWALK PLAN AND PROFILE	SHEET NO. 20
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		

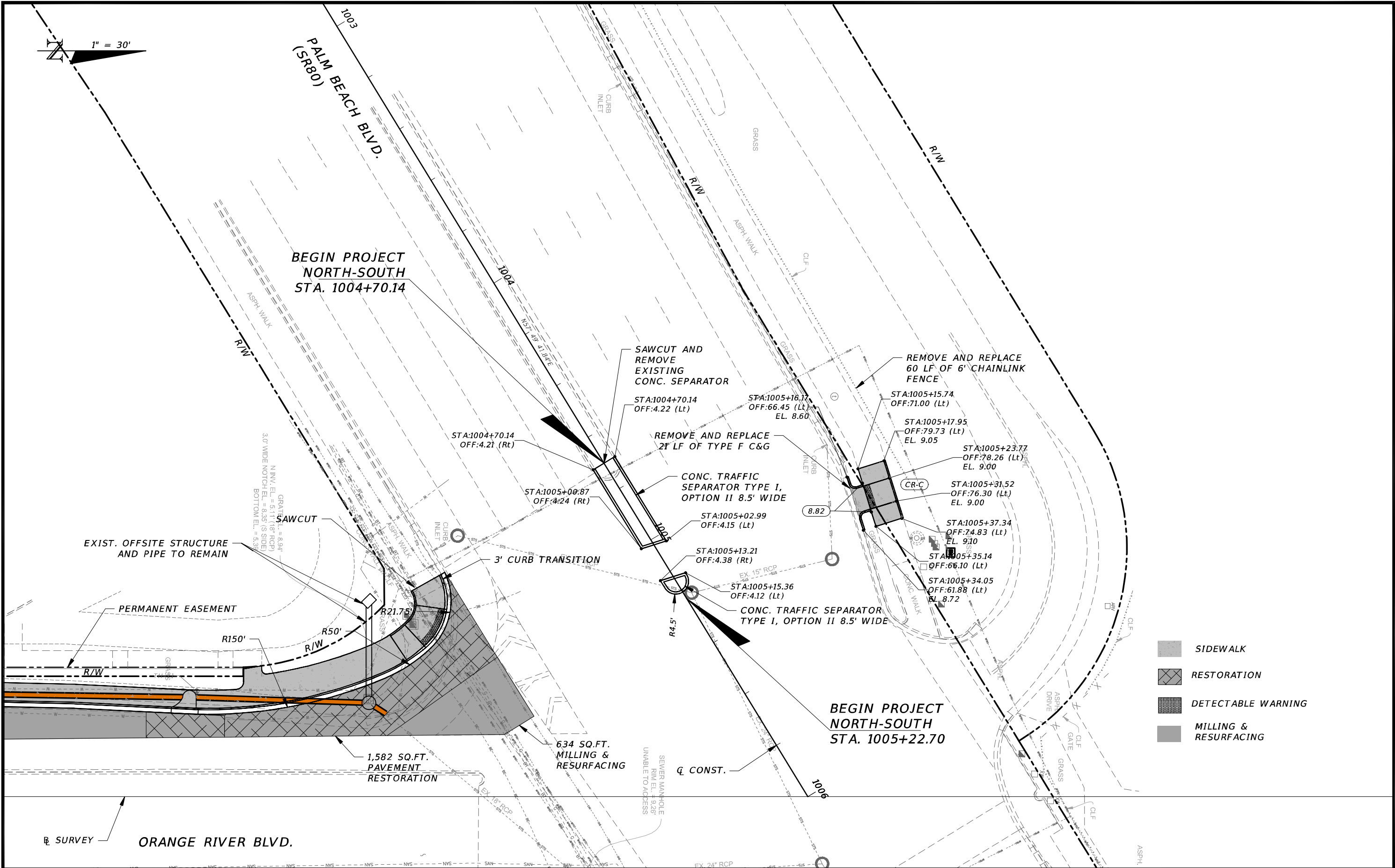
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



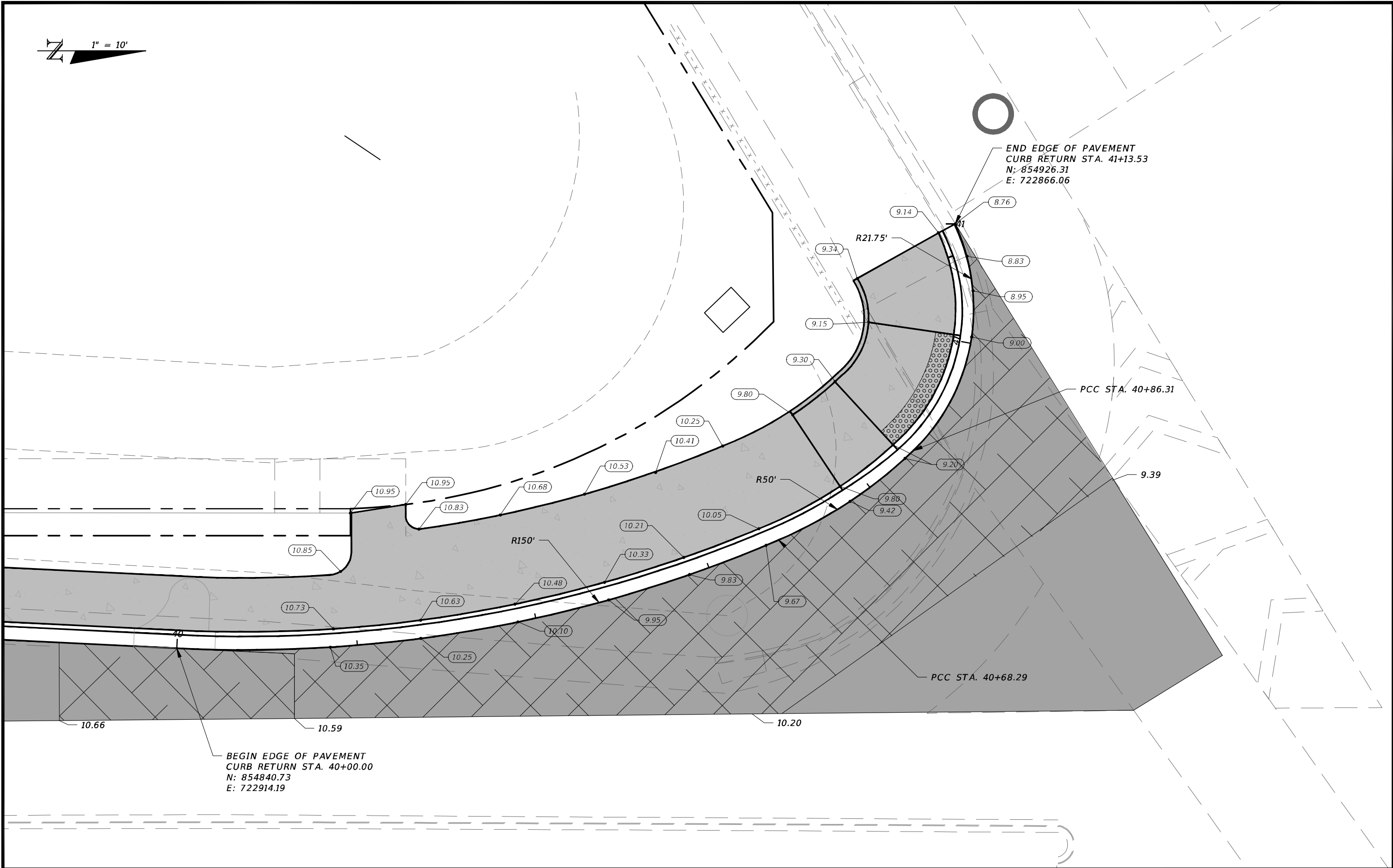
REVISIONS				CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		SIDEWALK PLAN AND PROFILE		SHEET NO. 21
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #			
					LEE COUNTY	20-0016A			



REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		SIDEWALK PLAN AND PROFILE	SHEET NO. 22
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		

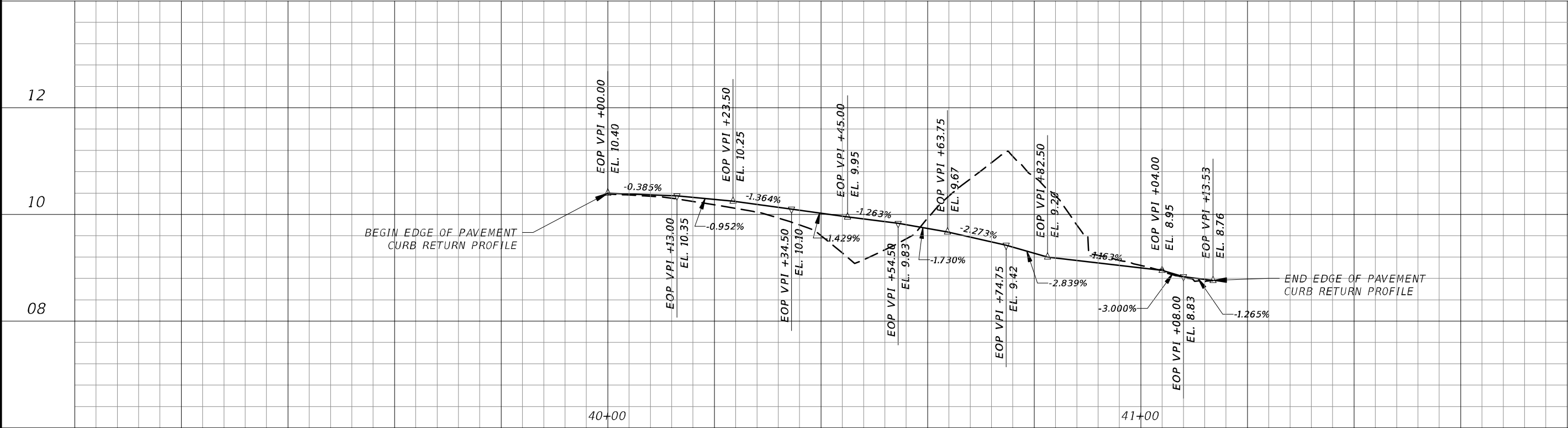


REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		INTERSECTION DETAIL	SHEET NO. 23
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		

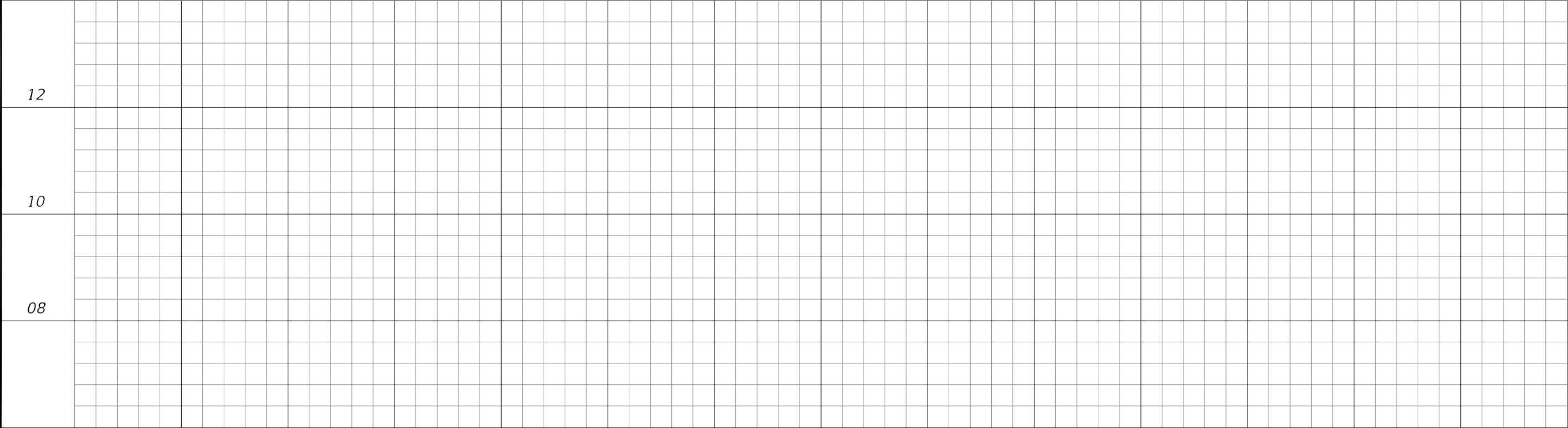


December 19, 2024 - 2:33pm J:\20-0016A Orange River SW\CADD\DWG\23A-20-0016A-INT-DTL.dwg

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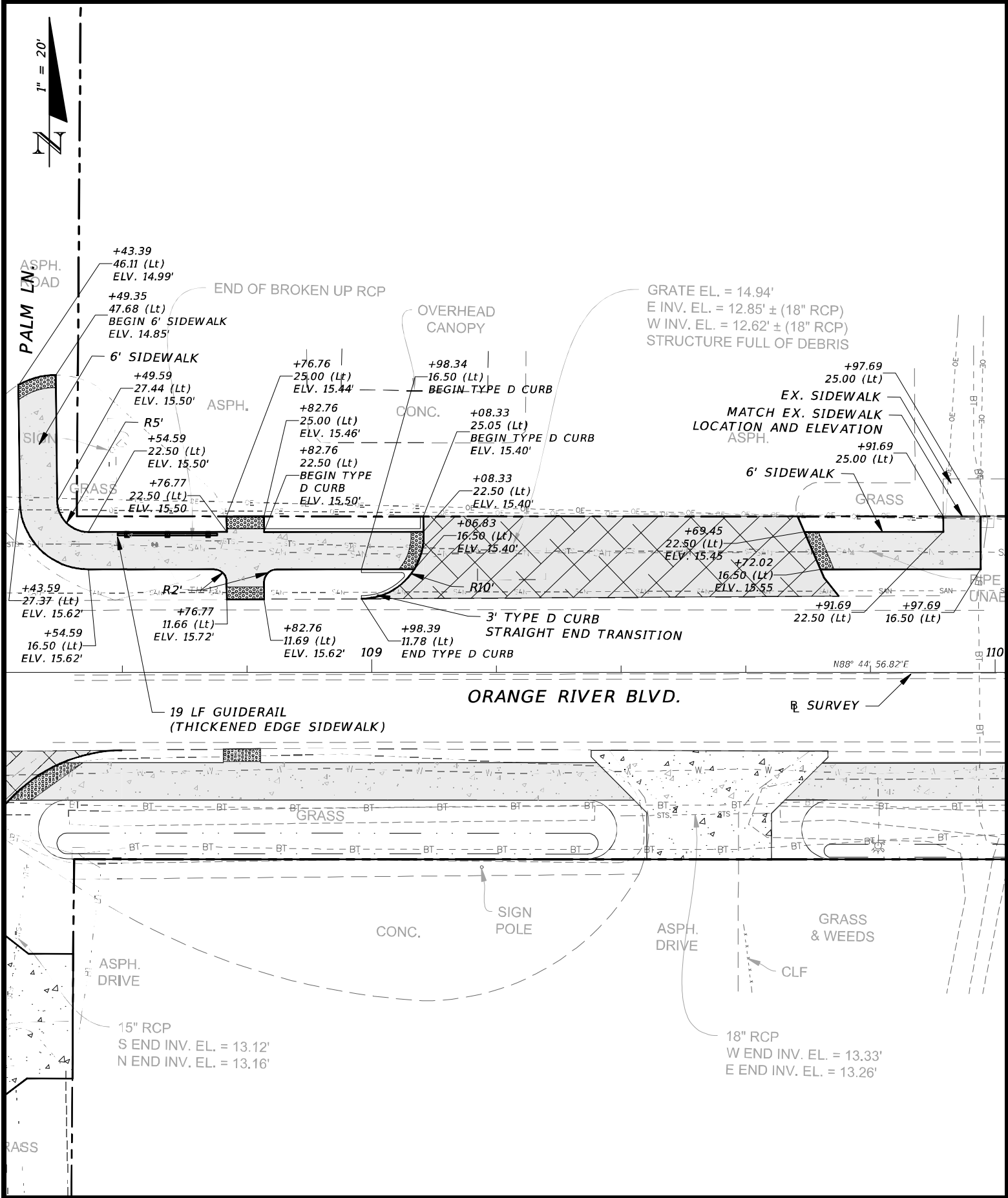
1" = 20' Horizontal
1" = 2' Vertical



1" = 20' Horizontal
1" = 2' Vertical

REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		CURB RETURN PROFILES
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #	
					LEE COUNTY	20-0016A	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

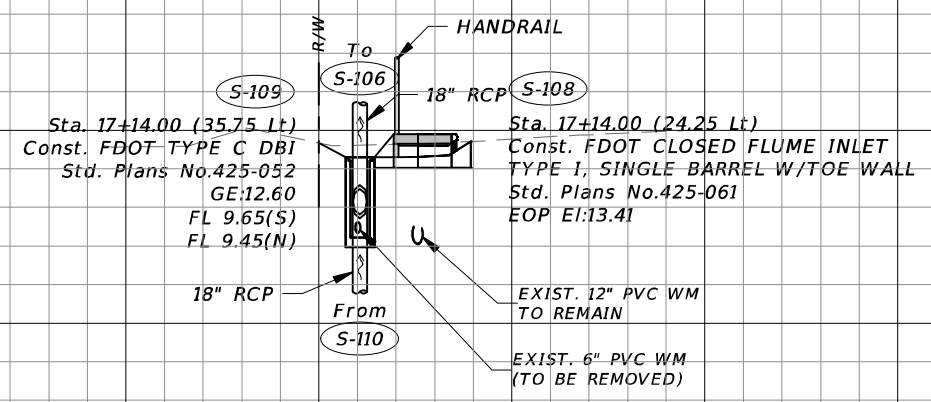
CW3 ENGINEERING, INC.
5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB	
COUNTY	PROJECT #
LEE COUNTY	20-0016A

SIDEWALK DETAIL	
SHEET NO.	
23C	

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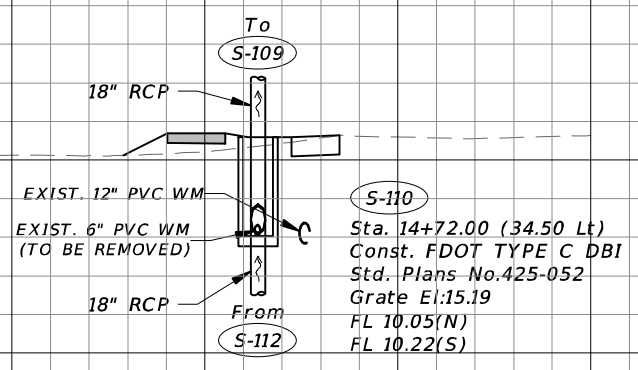
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S-108
S-109
17+14.00

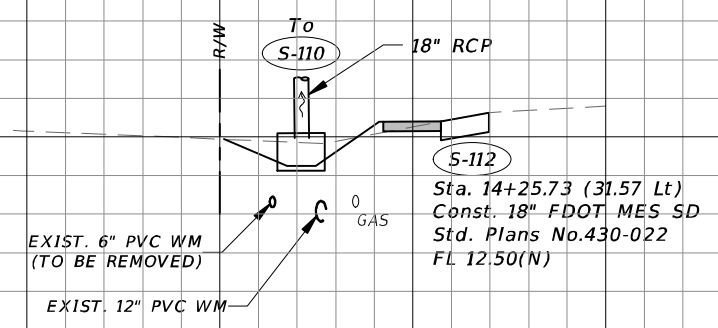
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S-110
14+72.00

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S-112
14+25.73

NOTE:
ALL DRAINAGE STRUCTURES ARE
TO HAVE A TWO-FOOT (2') SUMP
UNLESS OTHERWISE NOTED

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



CW3 ENGINEERING, INC.
5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

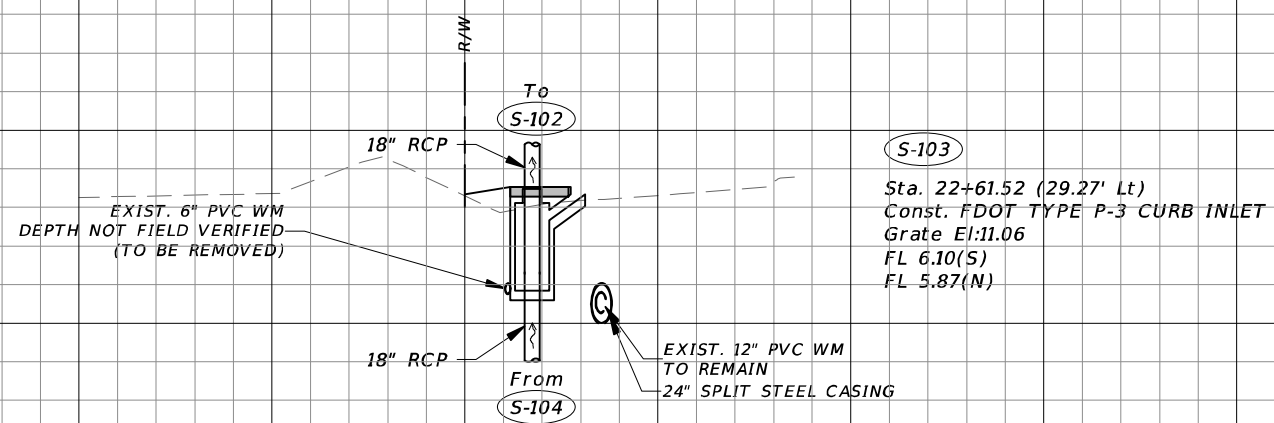
ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB	
COUNTY	PROJECT #
LEE COUNTY	20-0016A

DRAINAGE STRUCTURES

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.

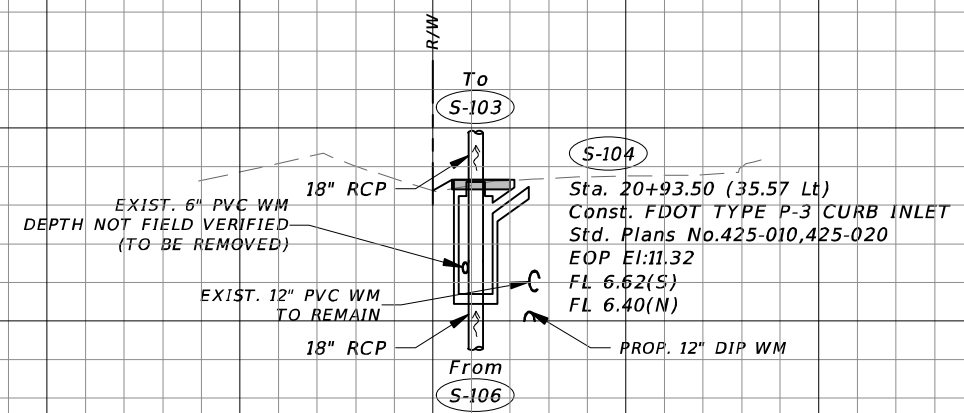
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S-103
Sta. 22+61.52 (29.27' Lt)
Const. FDOT TYPE P-3 CURB INLET
Grate El:11.06
FL 6.10(S)
FL 5.87(N)

S-103
22+61.52

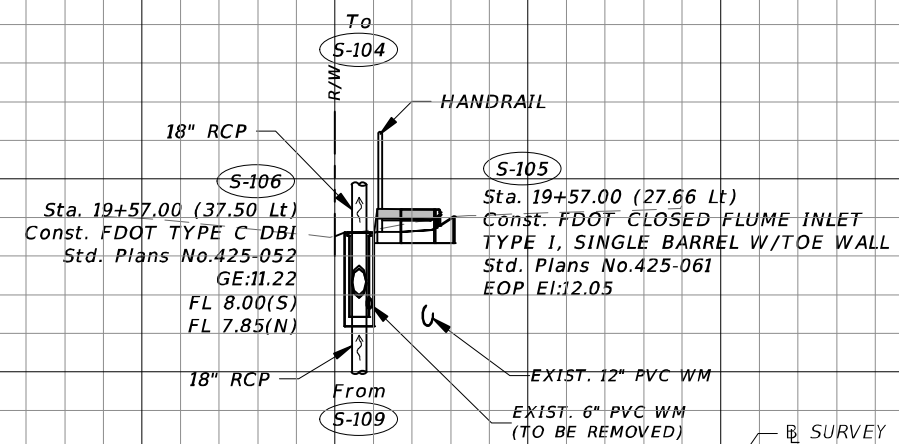
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S-104
Sta. 20+93.50 (35.57 Lt)
Const. FDOT TYPE P-3 CURB INLET
Std. Plans No.425-010,425-020
EOP El:11.32
FL 6.62(S)
FL 6.40(N)

S-104
20+93.50

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S-105
Sta. 19+57.00 (27.66 Lt)
Const. FDOT CLOSED FLUME INLET
TYPE I, SINGLE BARREL W/TOE WALL
Std. Plans No.425-061
EOP El:12.05

S-105
S-106
19+57.00

NOTE:
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TO HAVE A TWO-FOOT (2') SUMP
UNLESS OTHERWISE NOTED

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

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

CW3 ENGINEERING, INC.
5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB	
COUNTY	PROJECT #
LEE COUNTY	20-0016A

DRAINAGE STRUCTURES

SHEET NO.
25

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

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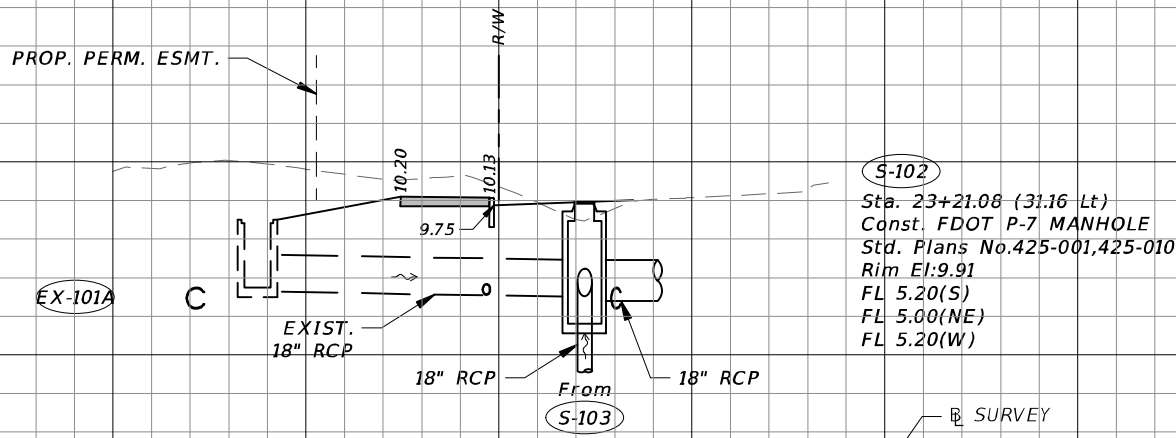
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S-102
23+21.08

NOTE:
ALL DRAINAGE STRUCTURES ARE
TO HAVE A TWO-FOOT (2') SUMP
UNLESS OTHERWISE NOTED

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

REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		DRAINAGE STRUCTURES	SHEET NO. 26
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		

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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S-202
Sta. 104+65.50 (33.41' Rt)
Const. ADS 24" NYLOPLAST
INLINE DRAIN
W/ 2'X3' STEEL
BAR-LOCKING GRATE
Grate El:14.75
FL 11.45(E)

S-202
104+65.50

S-201A
Sta. 104+02.50 (18.10' Rt)
Const. FDOT P7 MANHOLE
Std. Plans No.425-001, 425-010
Rim El:16.52
FL 11.70(W)
FL 12.05(S)

S-201
Sta. 104+02.50 (29.27' Rt)
Const. 24" NYLOPLAST
DRAIN BASIN
W/ STANDARD GRATE
Grate El:14.96

S-201A
S-201
104+02.50

S-200
Sta. 102+36.50 (27.00 Rt)
Const. 24" FDOT MES-5D
Std. Plans No.430-022
FL 14.30(E)

S-200
102+36.50

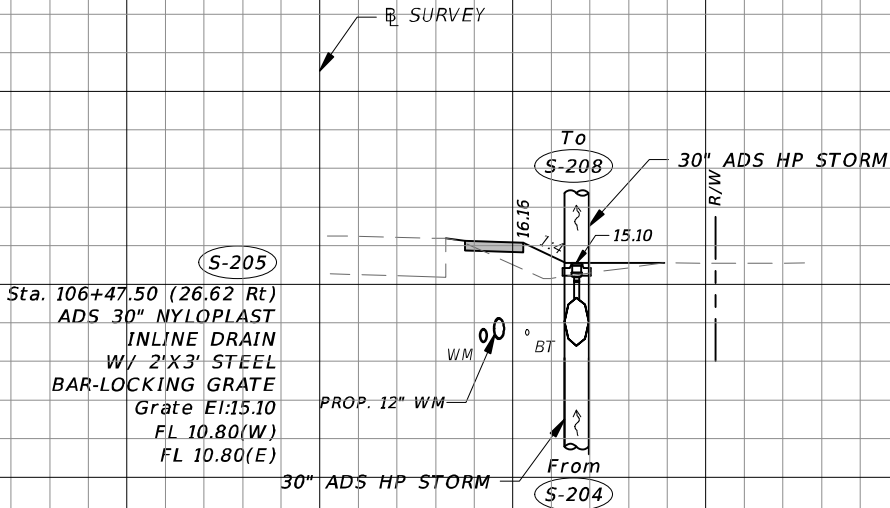
NOTE:
ALL DRAINAGE STRUCTURES ARE
TO HAVE A TWO-FOOT (2') SUMP
UNLESS OTHERWISE NOTED

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

REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		DRAINAGE STRUCTURES	SHEET NO. 27
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		

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

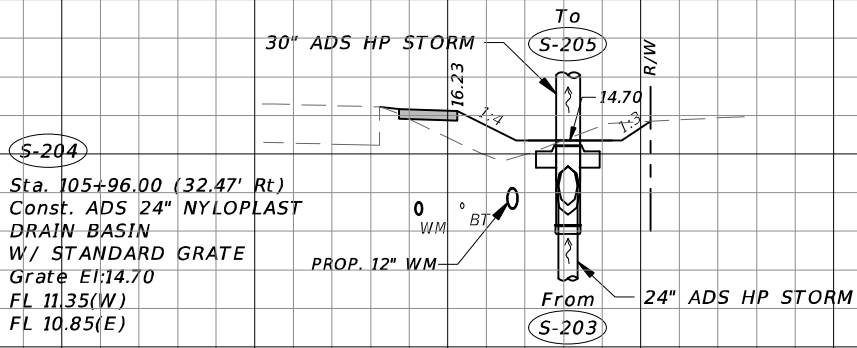
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S-205
106+47.50
S-206 NOT USED

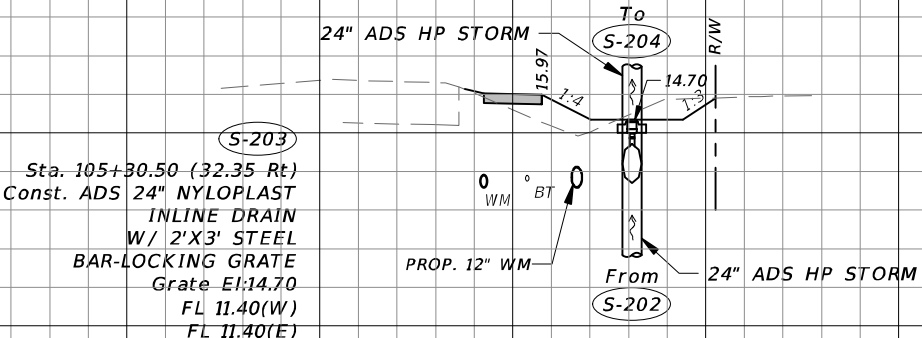
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S-204
105+96.00

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S-203
105+30.50

NOTE:
ALL DRAINAGE STRUCTURES ARE
TO HAVE A TWO-FOOT (2') SUMP
UNLESS OTHERWISE NOTED

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



CW3 ENGINEERING, INC.
5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB	
COUNTY	PROJECT #
LEE COUNTY	20-0016A

DRAINAGE STRUCTURES

SHEET
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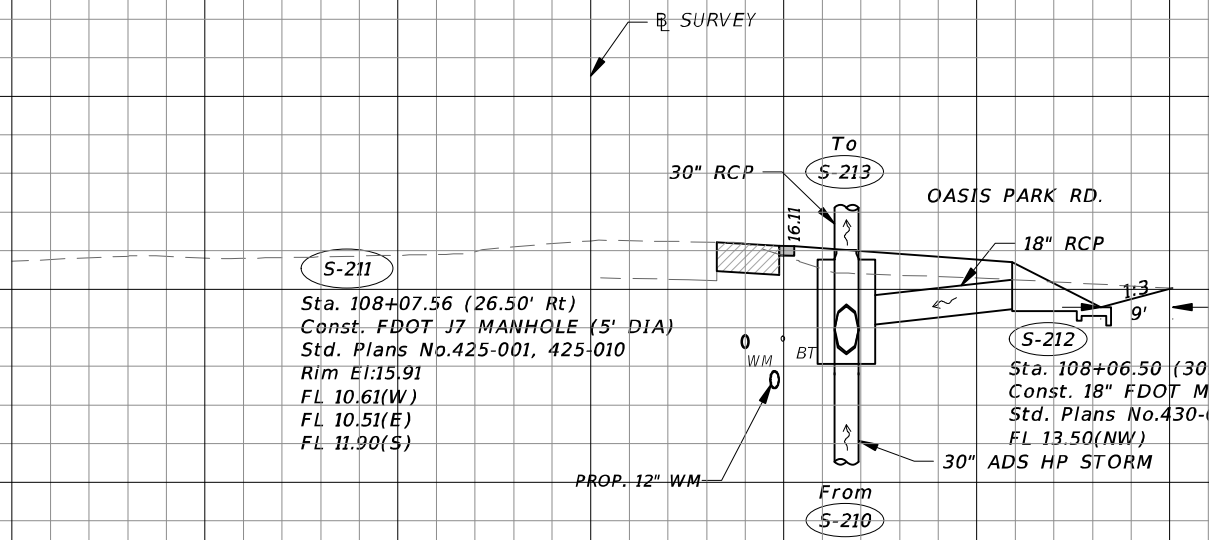
28

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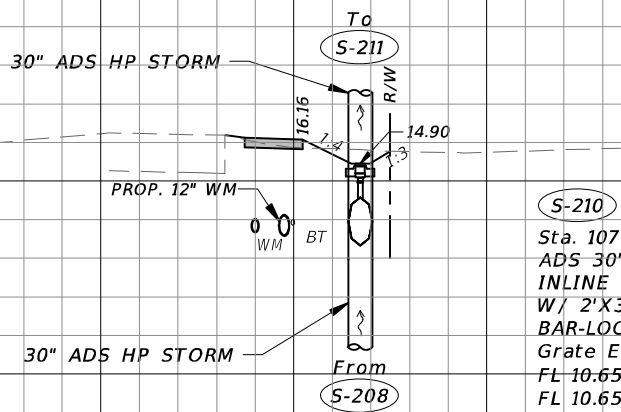
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S-211
Sta. 108+07.56 (26.50' Rt)
Const. FDOT J7-MANHOLE (5'-DIA)
Std. Plans No.425-001, 425-010
Rim El:15.91
FL 10.61(W)
FL 10.51(E)
FL 11.90(S)

S-212
Sta. 108+06.50 (30.25 Rt)
Const. 18" FDOT MES SD
Std. Plans No.430-022
FL 13.50(NW)



S-210
Sta. 107+87.50 (26.88' Rt)
ADS 30" NYLOPLAST
INLINE DRAIN
W/ 2'X3' STEEL
BAR-LOCKING GRATE
Grate El:14.90
FL 10.65(W)
FL 10.65(E)

S-208
Sta. 107+02.50 (27.69' Rt)
ADS 30" NYLOPLAST
INLINE DRAIN
W/ 2'X3' STEEL
BAR-LOCKING GRATE
Grate El:14.65
FL 10.75(W)
FL 10.75(E)

S-212
108+06.50
S-211
108+07.56

S-210
107+87.50
S-209 NOT USED

S-208
107+02.50
S-207 NOT USED

NOTE:
ALL DRAINAGE STRUCTURES ARE
TO HAVE A TWO-FOOT (2') SUMP
UNLESS OTHERWISE NOTED

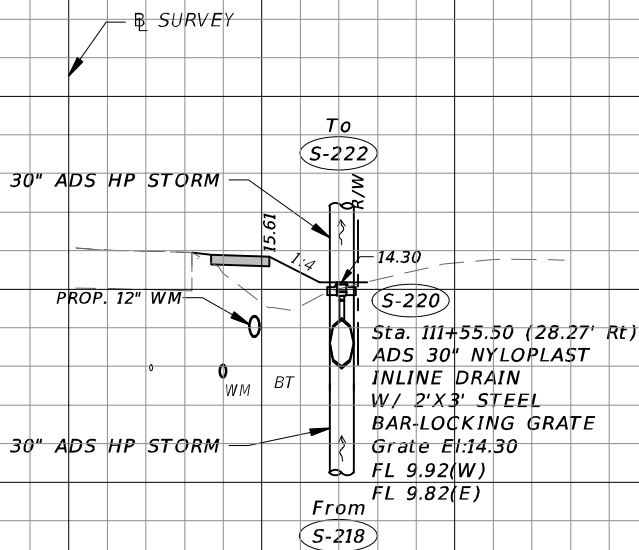
1" = 20' Horizontal
1" = 10' Vertical

REVISIONS				CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		DRAINAGE STRUCTURES	SHEET NO. 29
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		

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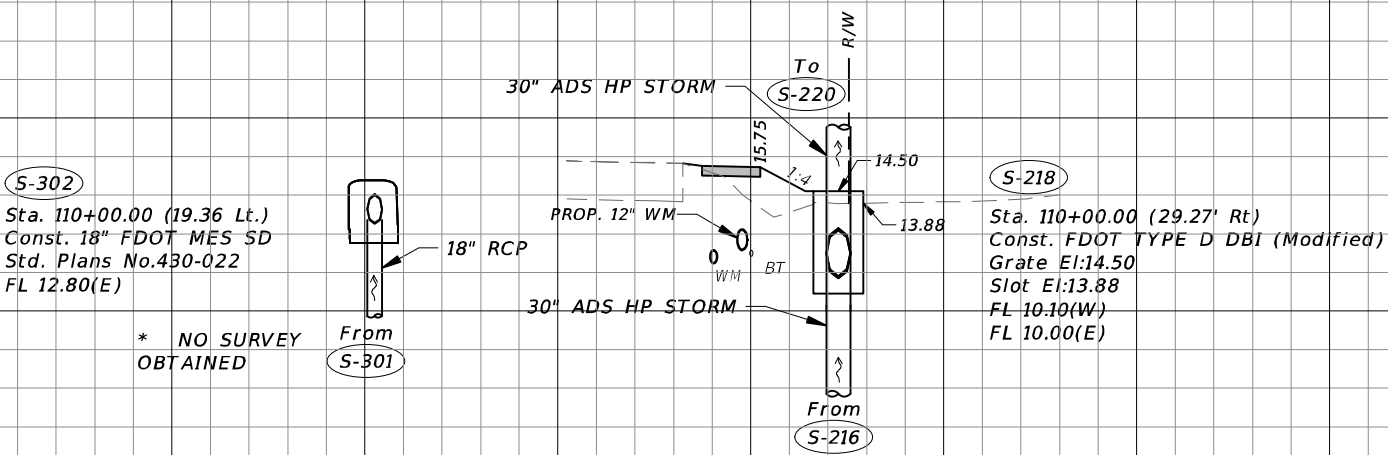
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S-220
S-219 NOT USED
111+55.50

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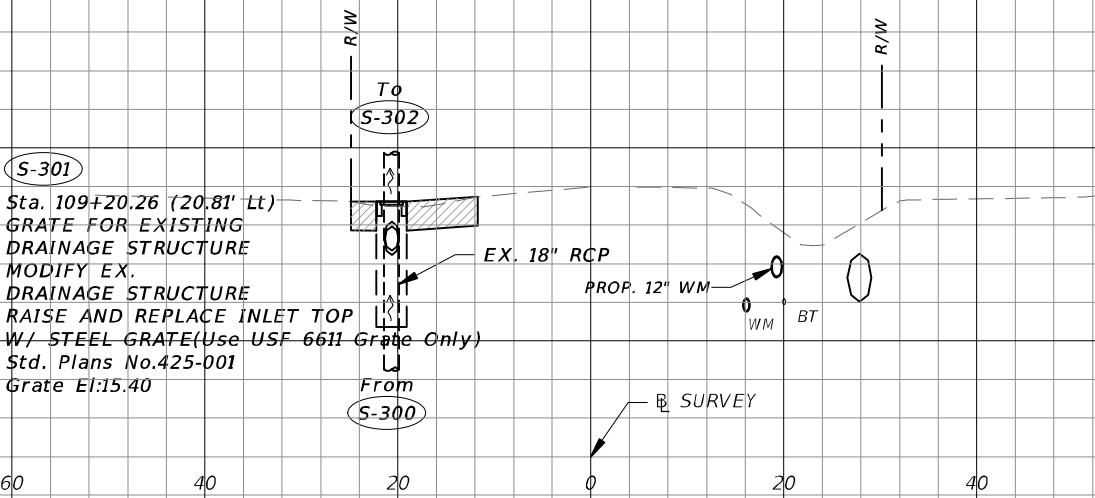
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S-302
S-218
S-217 NOT USED
110+00.00

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S-301
109+20.26

NOTE:
ALL DRAINAGE STRUCTURES ARE
TO HAVE A TWO-FOOT (2') SUMP
UNLESS OTHERWISE NOTED

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

REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		DRAINAGE STRUCTURES	SHEET NO. 31
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		

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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EX-224

EX-224

113+44.06

EX-223

EX-223

113+36.30

S-222

S-221 NOT USED

112+67.00

NOTE:
ALL DRAINAGE STRUCTURES ARE
TO HAVE A TWO-FOOT (2') SUMP
UNLESS OTHERWISE NOTED

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

SURVEY

From
S-225

EXIST. 24" RCP

EXIST. 54" RCP

From
S-222

EXIST. 24" RCP

EXIST. 54" RCP

To
EXIST.

24" ADS HP STORM

S-222

Sta. 112+67.00 (27.28' Rt)
Const. ADS 30" NYLOPLAST
DRAIN BASIN (2' SUMP MIN.)
W/ STANDARD GRATE
Grate El:14.40
FL 9.74(W)
FL 9.50(E)

16" HDPE DR11 DIRECTIONAL DRILL

SURVEY

80

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
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CW3 ENGINEERING, INC.
5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

**ORANGE RIVER BLVD. SIDEWALK AND
WATERMAIN REPLACEMENT CN200224JJB**

COUNTY	PROJECT #
LEE COUNTY	20-0016A

DRAINAGE STRUCTURES

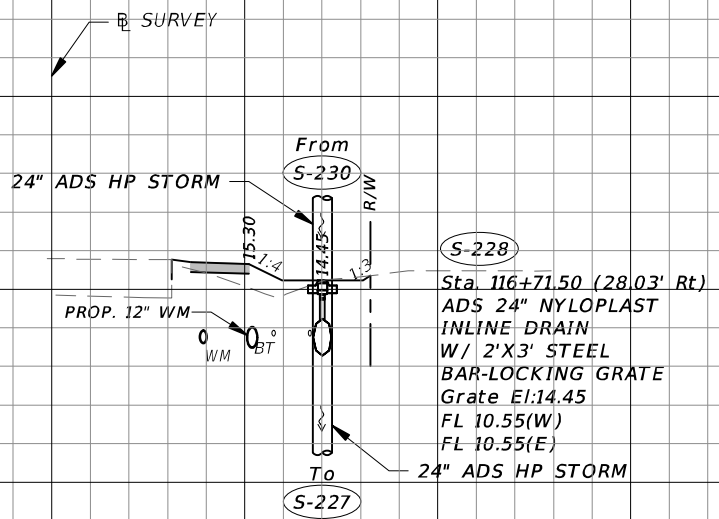
SHEET
NO.

32

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

18
16
14
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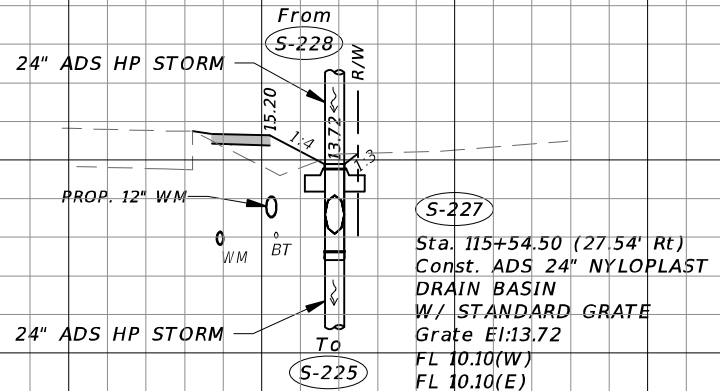
18
16
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S-228
116+71.50

18
16
14
12
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04

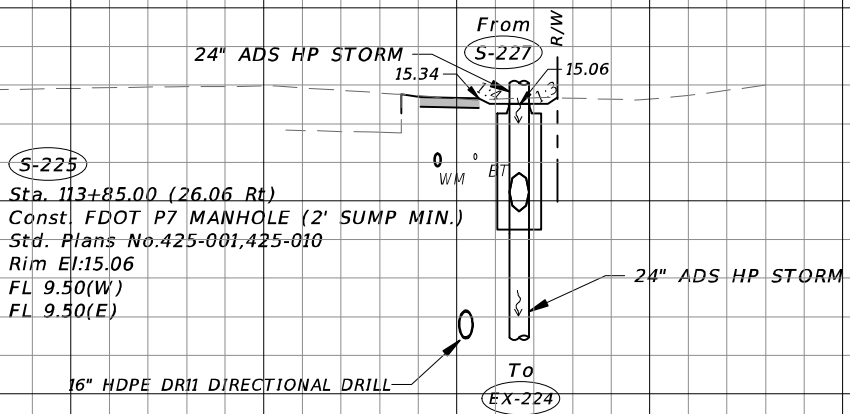
18
16
14
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04



S-227
S-226 NOT USED
115+54.50

18
16
14
12
10
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06
04

18
16
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08
06
04



S-225
113+85.00

NOTE:
ALL DRAINAGE STRUCTURES ARE
TO HAVE A TWO-FOOT (2') SUMP
UNLESS OTHERWISE NOTED

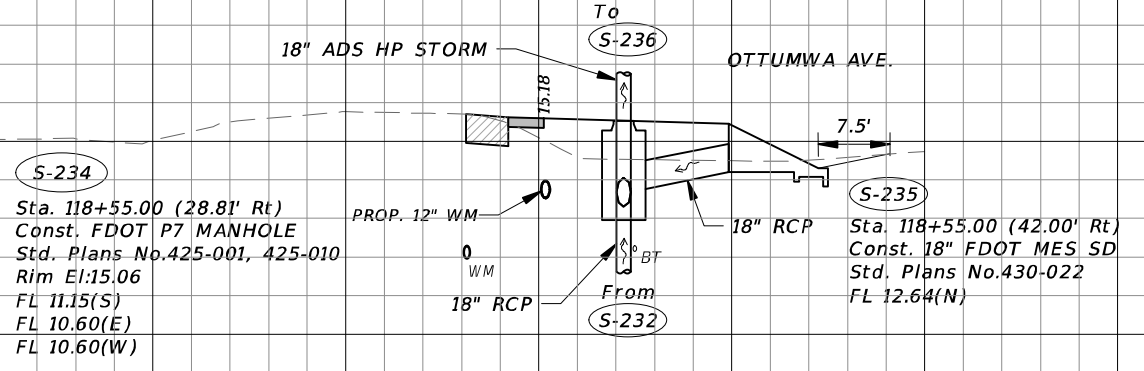
1" = 20' Horizontal
1" = 10' Vertical

REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		DRAINAGE STRUCTURES	SHEET NO. 33
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		

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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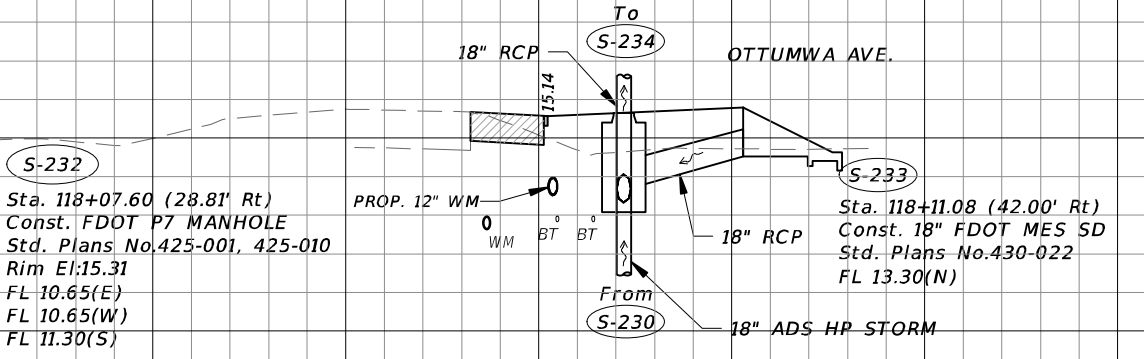
18
16
14
12
10
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06
04



S-234
S-235
118+55.00

18
16
14
12
10
08
06
04

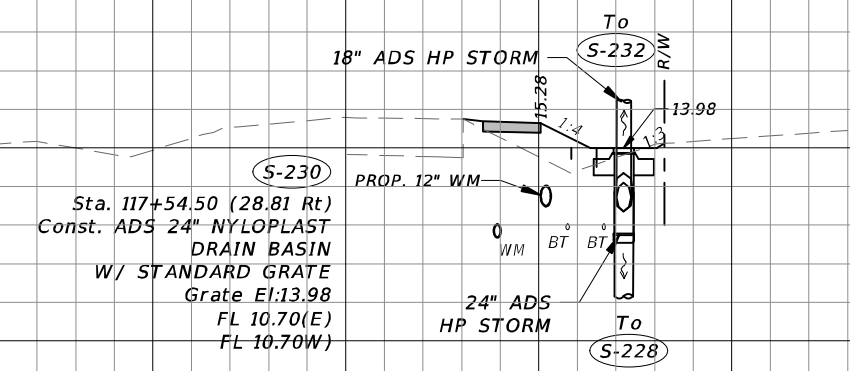
18
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14
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04



S-233
S-232
118+11.08
118+07.60

18
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14
12
10
08
06
04

18
16
14
12
10
08
06
04



S-230
S-231 NOT USED
117+54.50

NOTE:
ALL DRAINAGE STRUCTURES ARE
TO HAVE A TWO-FOOT (2') SUMP
UNLESS OTHERWISE NOTED

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

REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		DRAINAGE STRUCTURES	SHEET NO. 34
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		

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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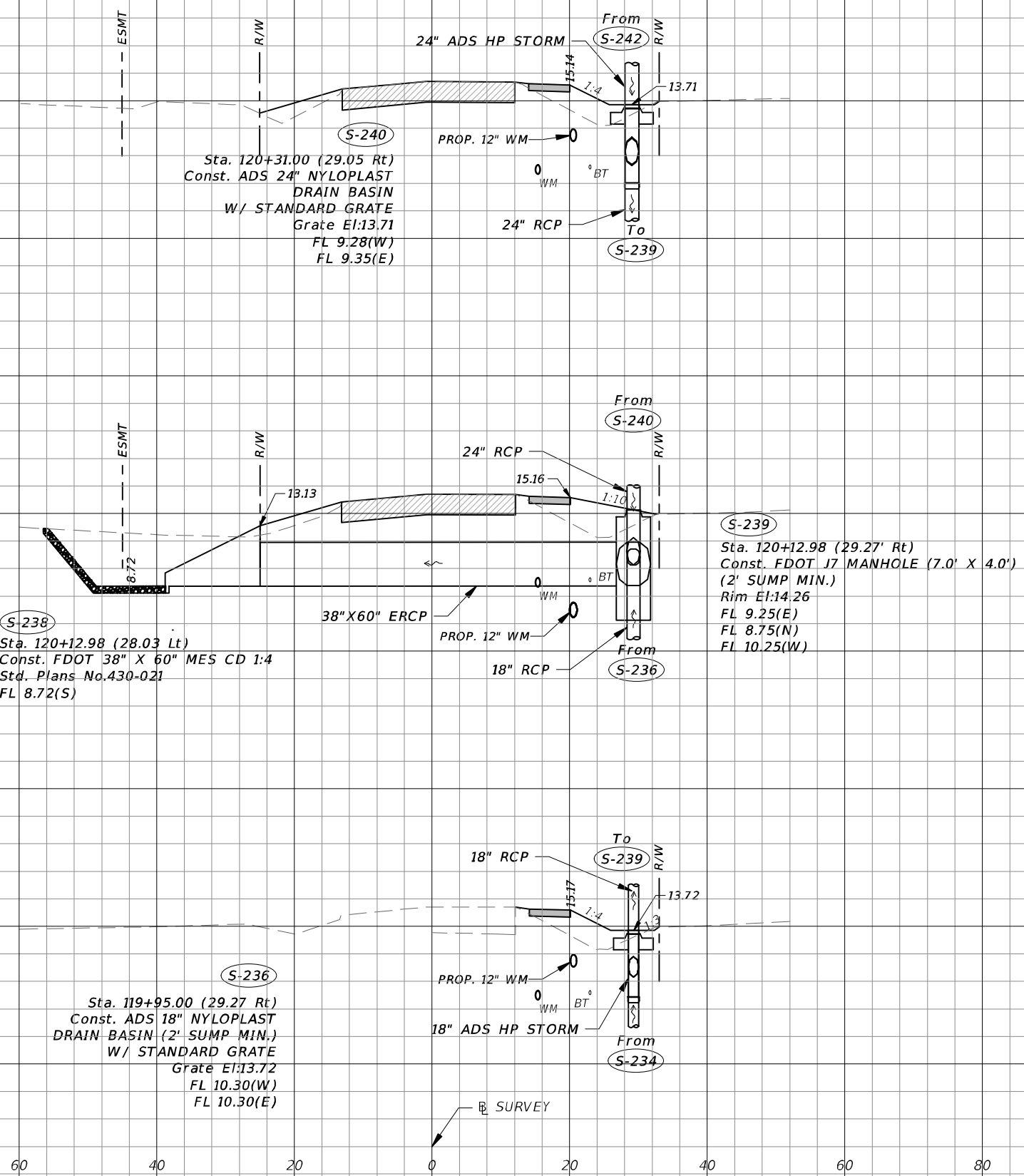
18
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04

18
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14
12
10
08
06
04

18
16
14
12
10
08
06
04



S-240
S-241 NOT USED
120+31.00

S-238
S-239
120+12.98

S-236
S-237 NOT USED
119+95.00

NOTE:
ALL DRAINAGE STRUCTURES ARE
TO HAVE A TWO-FOOT (2') SUMP
UNLESS OTHERWISE NOTED

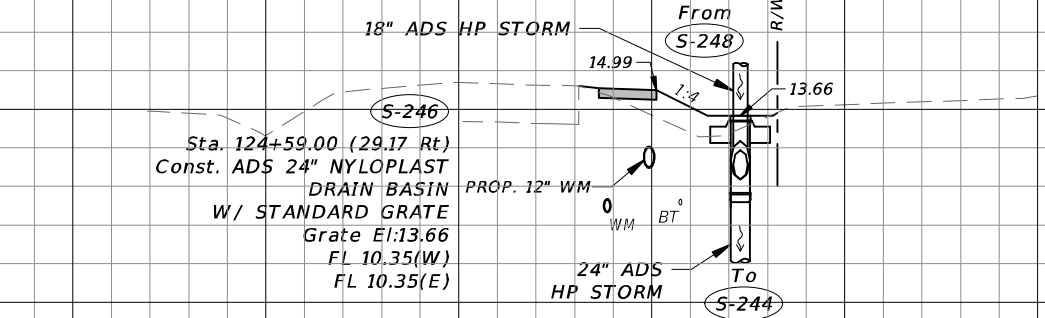
1" = 20' Horizontal
1" = 10' Vertical

REVISIONS				CW3 Engineering, Inc. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB COUNTY PROJECT # LEE COUNTY 20-0016A	DRAINAGE STRUCTURES		SHEET NO. 35
DATE	DESCRIPTION	DATE	DESCRIPTION					

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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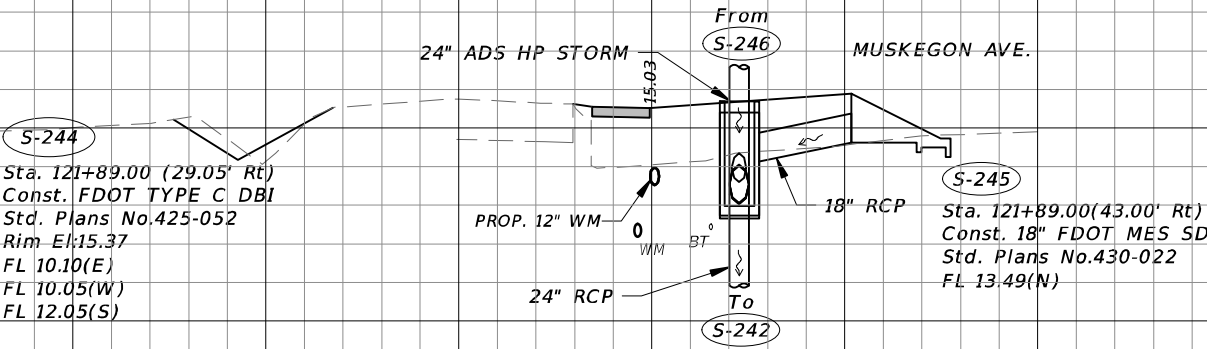
18
16
14
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04



S-246
S-247 NOT USED
124+59.00

18
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10
08
06
04

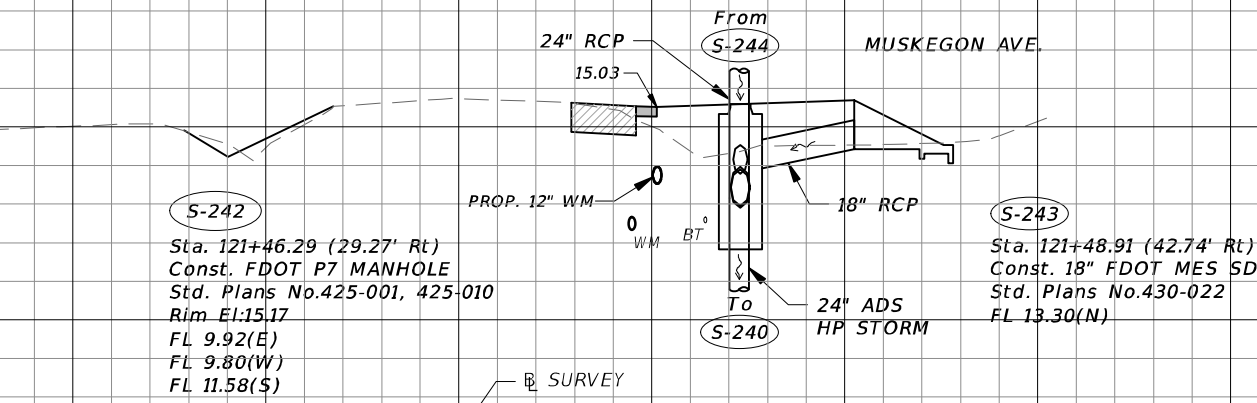
18
16
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04



S-244
S-245
121+89.00

18
16
14
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08
06
04

18
16
14
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08
06
04



S-243
S-242
121+48.91
121+46.29

NOTE:
ALL DRAINAGE STRUCTURES ARE
TO HAVE A TWO-FOOT (2') SUMP
UNLESS OTHERWISE NOTED

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



CW3 ENGINEERING, INC.
5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

**ORANGE RIVER BLVD. SIDEWALK AND
WATERMAIN REPLACEMENT CN200224JJB**

COUNTY	PROJECT #
LEE COUNTY	20-0016A

DRAINAGE STRUCTURES

SHEET NO.
36

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

18
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04

S-252
18" ADS HP STORM
Sta. 125+93.00 (25.00 Rt)
Const. 18" FDOT MES SD
Std. Plans No.430-022
FL 12.42(W)

S-252
125+93.00

S-250
Sta. 125+27.74 (29.27 Rt)
Const. FDOT TYPE C DBI
Std. Plans No.425-001, 425-010
Grate El:14.70
FL 11.95(W)
FL 12.00(E)
FL 12.00(S)

S-251
Sta. 125+30.00 (29.27 Rt)
Const. 18" FDOT MES SD
Std. Plans No.430-022
FL 13.25(N)

S-251
125+30.00
S-250
125+27.74

S-248
Sta. 124+80.00 (29.17 Rt)
Const. FDOT P7 MANHOLE
Std. Plans No.425-001, 425-010
Rim El:15.15
FL 11.90(S)
FL 10.70(W)
FL 11.00(E)

S-249
Sta. 124+83.00(43.00 Rt)
Const. 18" FDOT MES SD
Std. Plans No.430-022
FL 13.15(N)

S-249
124+83.00
S-248
124+80.00

NOTE:
ALL DRAINAGE STRUCTURES ARE
TO HAVE A TWO-FOOT (2') SUMP
UNLESS OTHERWISE NOTED

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



CW3 ENGINEERING, INC.
5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

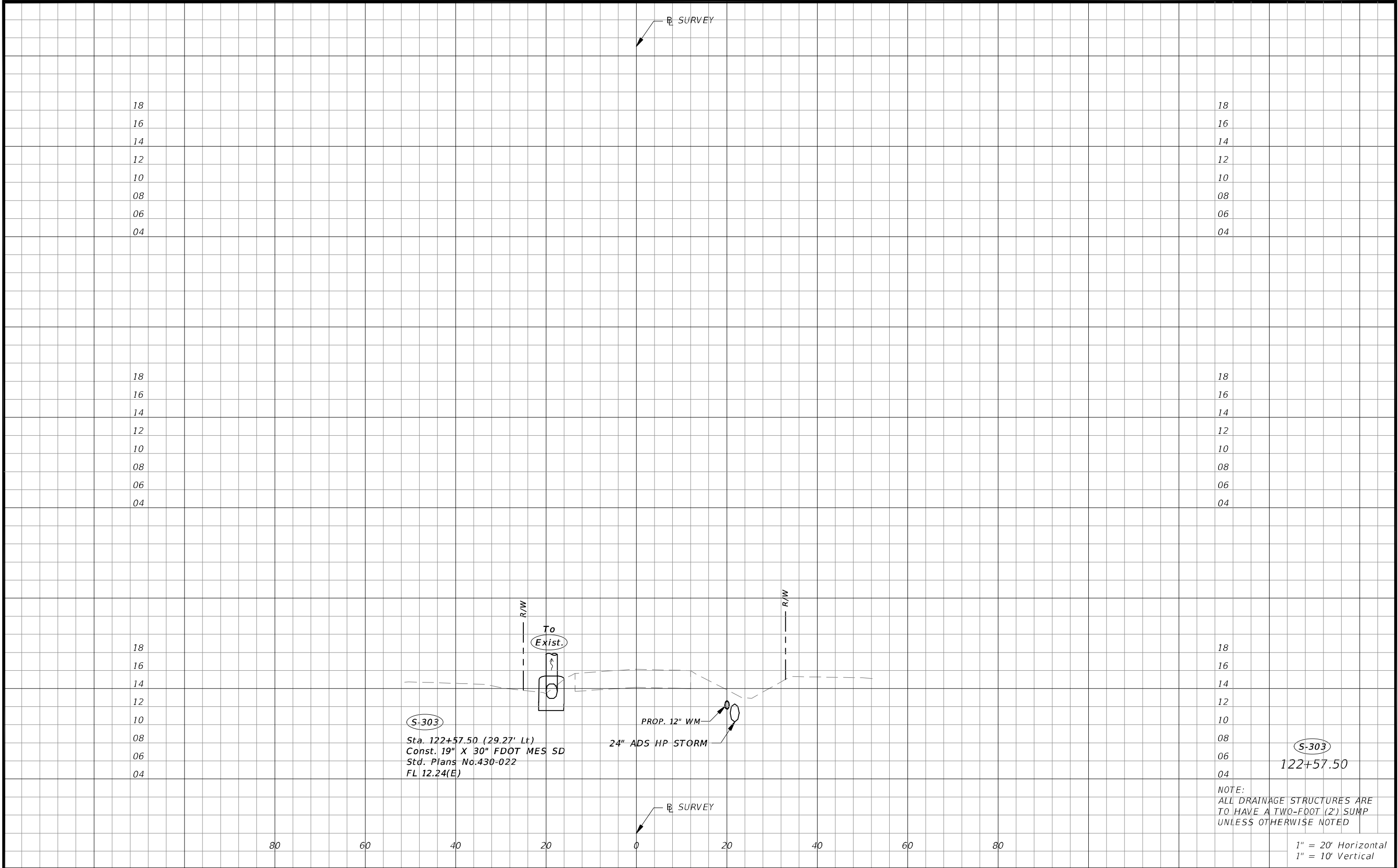
ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB	
COUNTY	PROJECT #
LEE COUNTY	20-0016A

DRAINAGE STRUCTURES

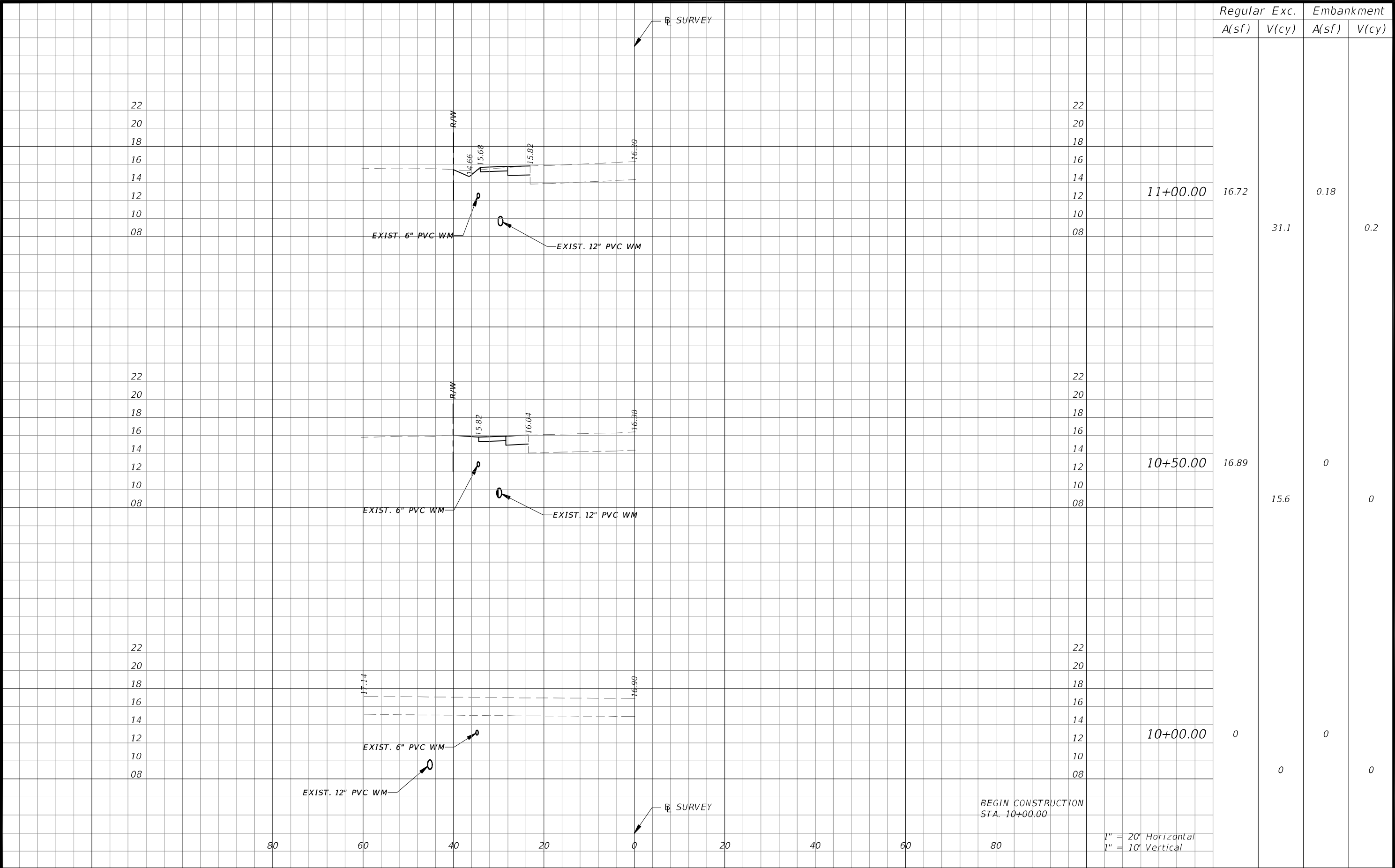
SHEET
NO.

37

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



REVISIONS				CW3 Engineering, Inc. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		DRAINAGE STRUCTURES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		37A



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
16.72	31.1	0.18	0.2
16.89	15.6	0	0
0	0	0	0

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
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CW3

Engineering, Inc.

CW3 ENGINEERING, INC.

5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

ORANGE RIVER BLVD. SIDEWALK AND
WATERMAIN REPLACEMENT CN200224JJB

COUNTY	PROJECT #
LEE COUNTY	20-0016A

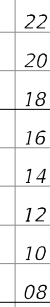
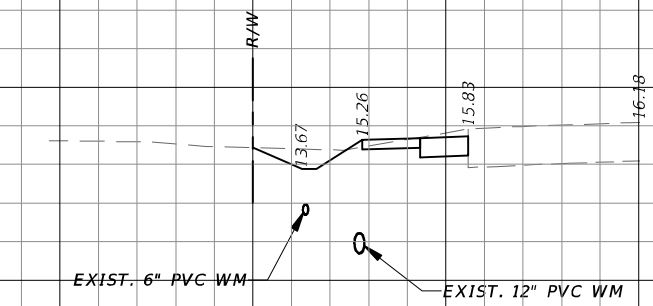
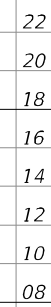
CROSS SECTIONS

SHEET NO.

38

December 19, 2024 - 2:36pm J:\20-0016A Orange River SW\CADD\DWG\38-20-0016A-XSEC.dwg

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

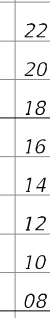
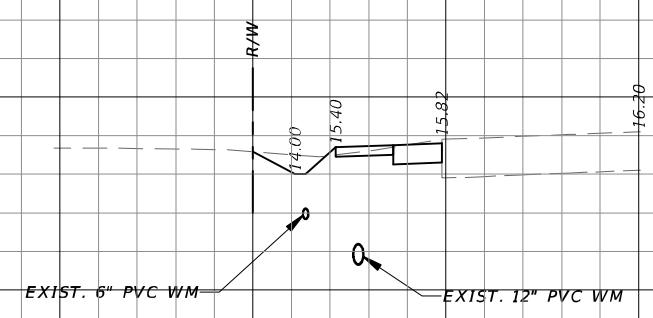
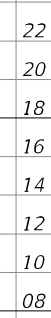
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22.09

40.9

0.61

1.0

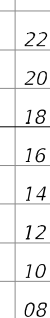
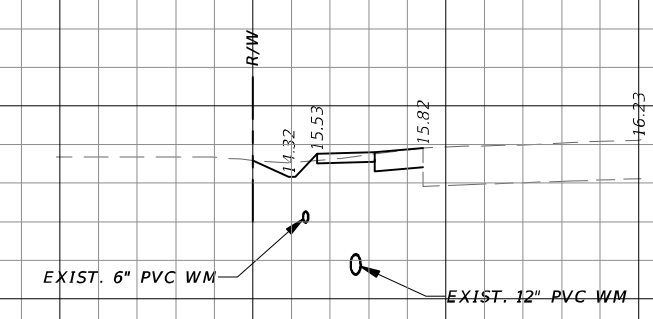
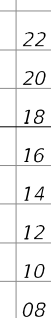
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22.09

36.6

0.42

0.6

[illegible]

	17.46
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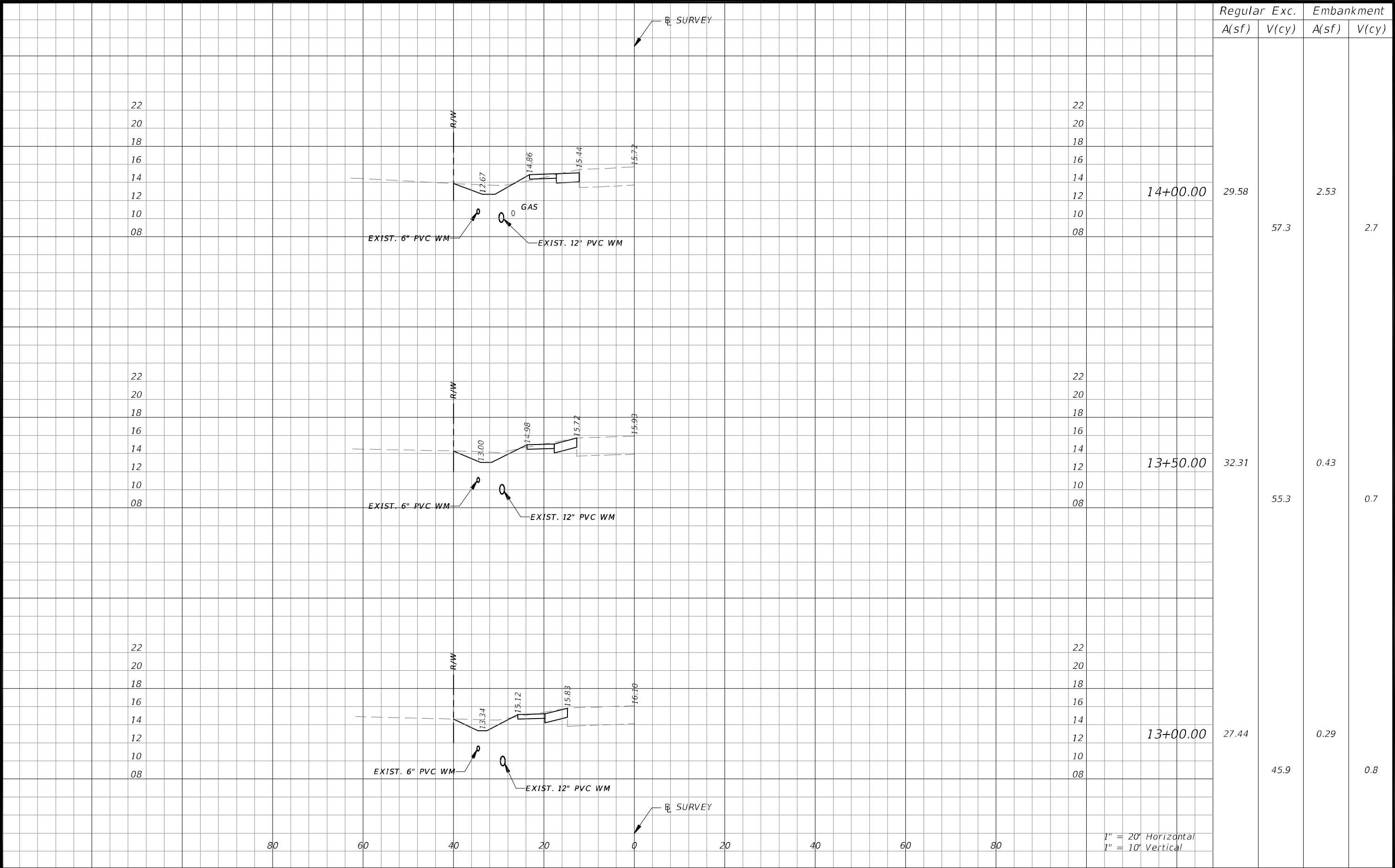
31.6

0.24

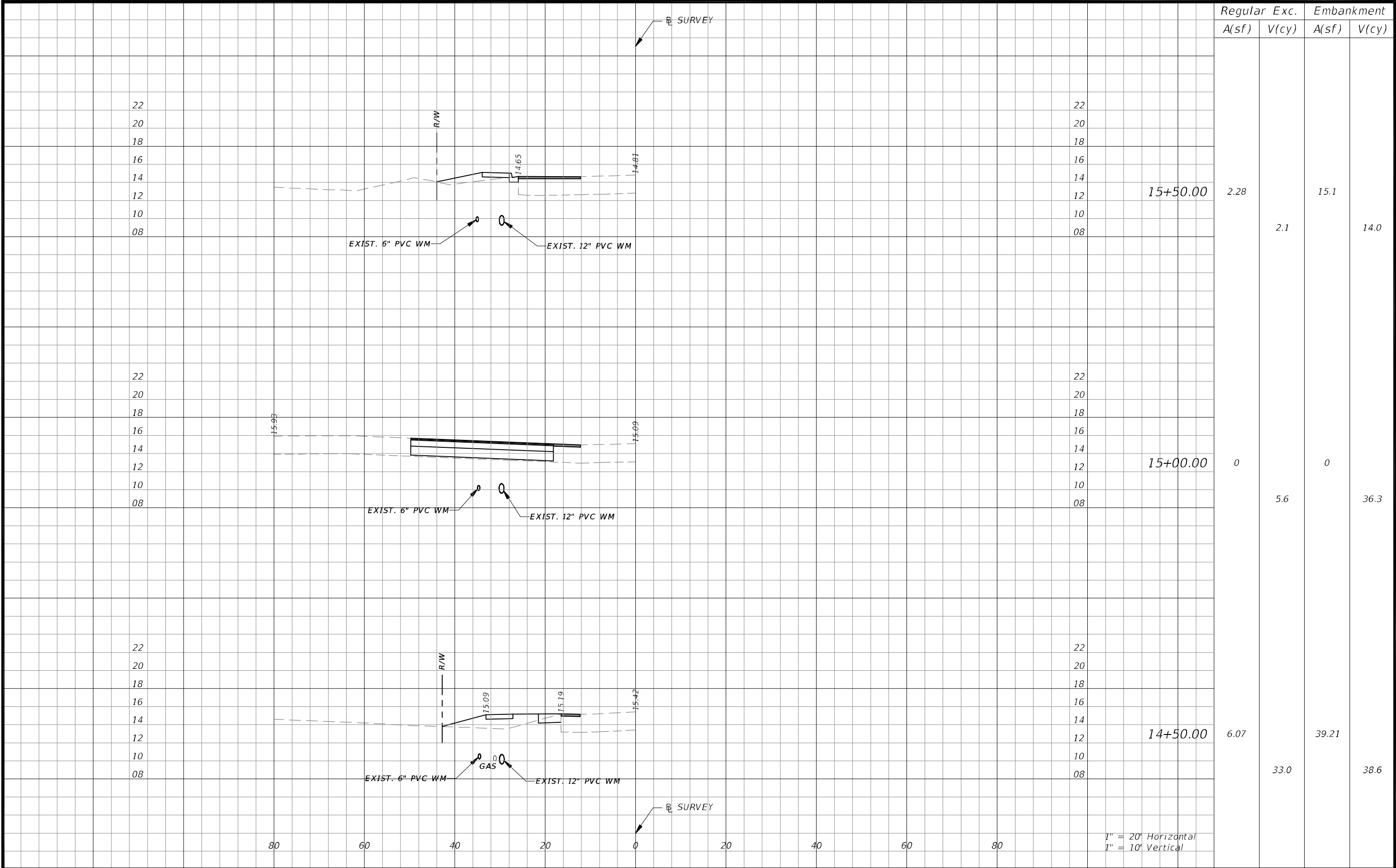
0.4

$1'' = 20'$ Horizontal
 $1'' = 10'$ Vertical

REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		39
					LEE COUNTY	20-0016A		



REVISIONS				CW3 Engineering, Inc. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		CROSS SECTIONS		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					COUNTY	PROJECT #			
					LEE COUNTY	20-0016A			40



Regular		Exc.	Embankment	
A(sf)	V(cy)		A(sf)	V(cy)
2.28	2.1		15.1	14.0
0	5.6		0	36.3
6.07	33.0		39.21	38.6

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

CW3 Engineering, Inc.

CW3 ENGINEERING, INC.

5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

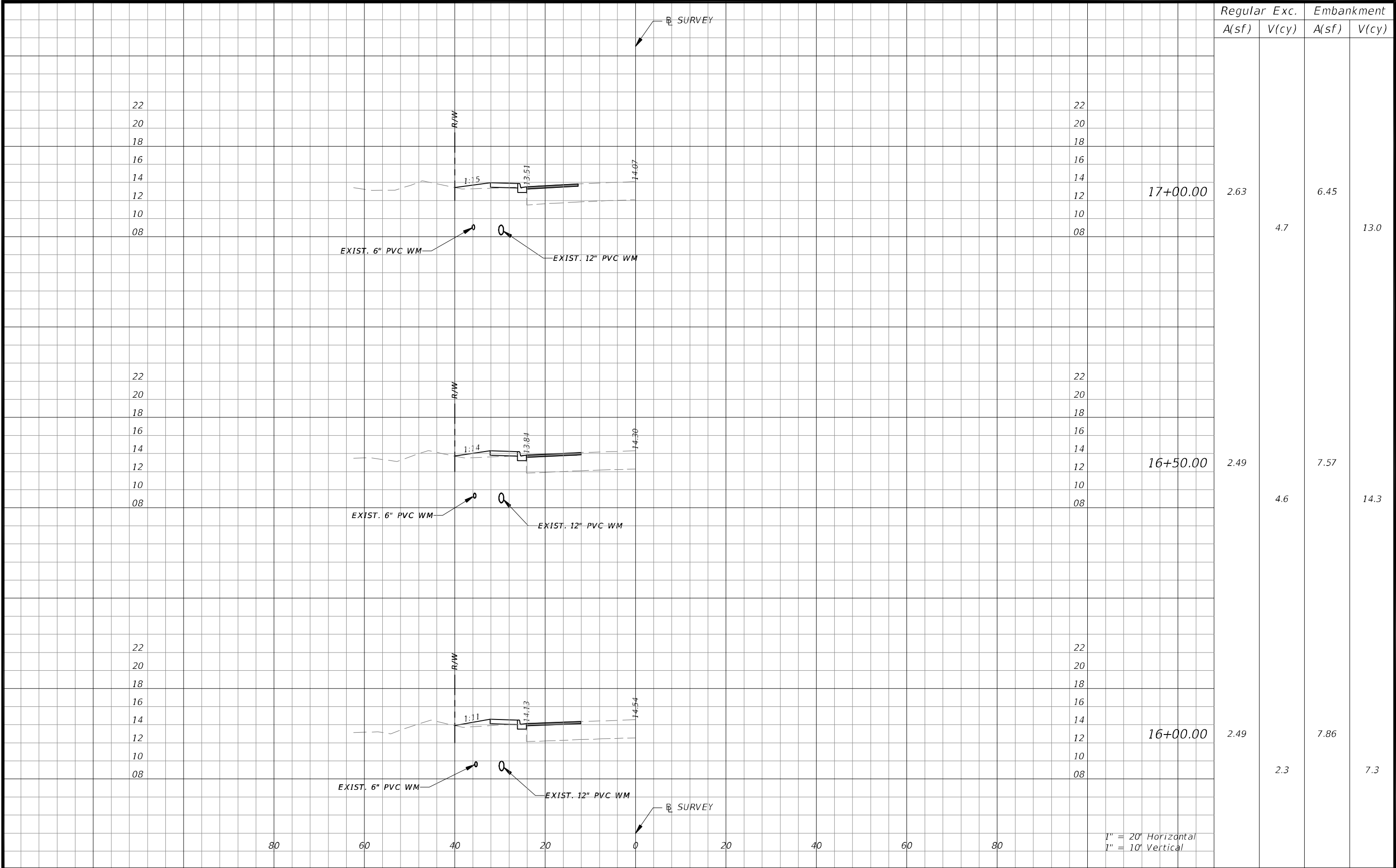
ORANGE RIVER BLVD. SIDEWALK AND
WATERMAIN REPLACEMENT CN200224JJB

COUNTY	PROJECT #
LEE COUNTY	20-0016A

CROSS SECTIONS

SHEET NO.
41

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



Regular	Exc.	Embankment	
A(sf)	V(cy)	A(sf)	V(cy)
2.63	4.7	6.45	13.0
2.49	4.6	7.57	14.3
2.49	2.3	7.86	7.3

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

CW3

Engineering, Inc.

CW3 ENGINEERING, INC.

5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

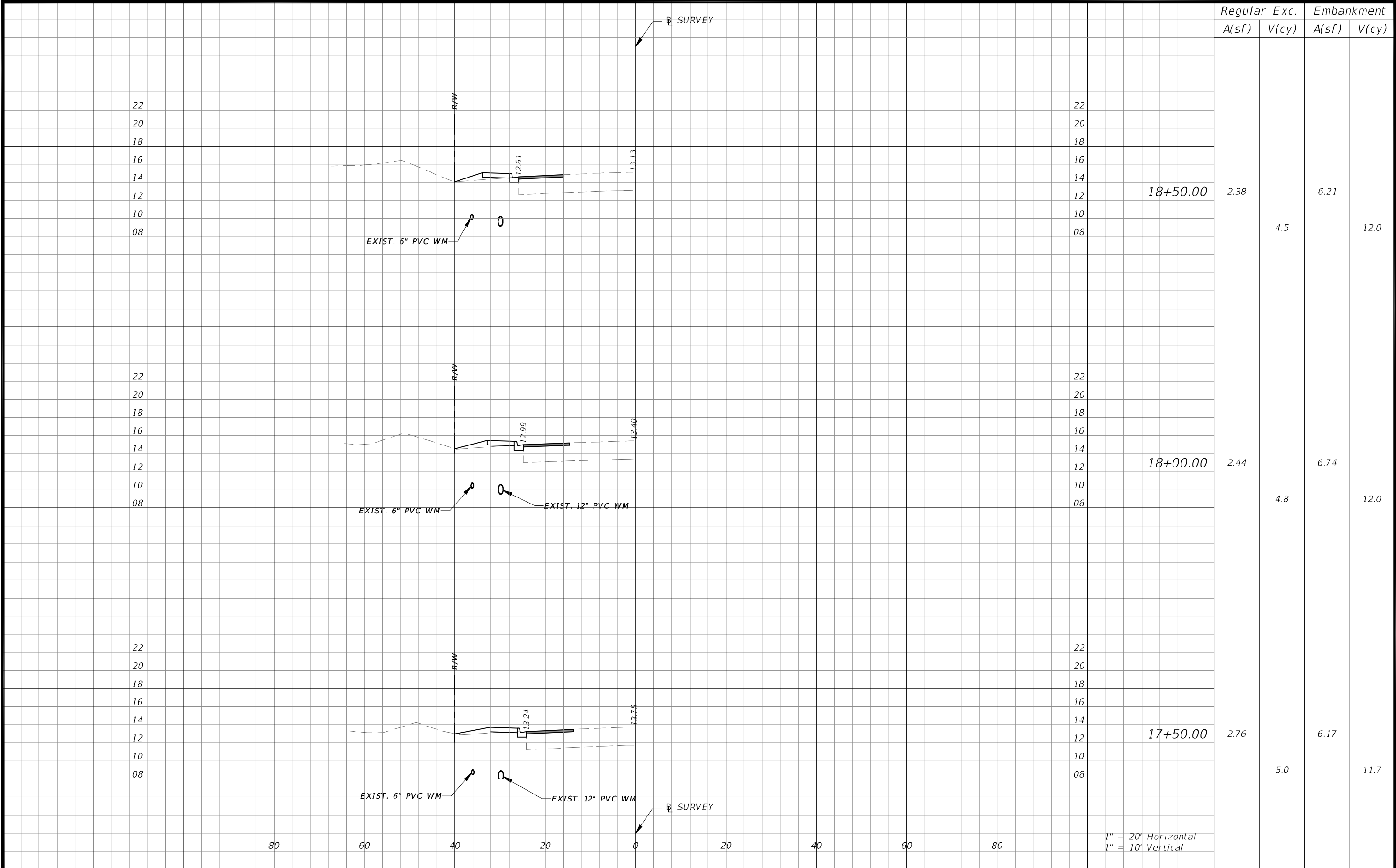
ORANGE RIVER BLVD. SIDEWALK AND
WATERMAIN REPLACEMENT CN200224JJB

COUNTY	PROJECT #
LEE COUNTY	20-0016A

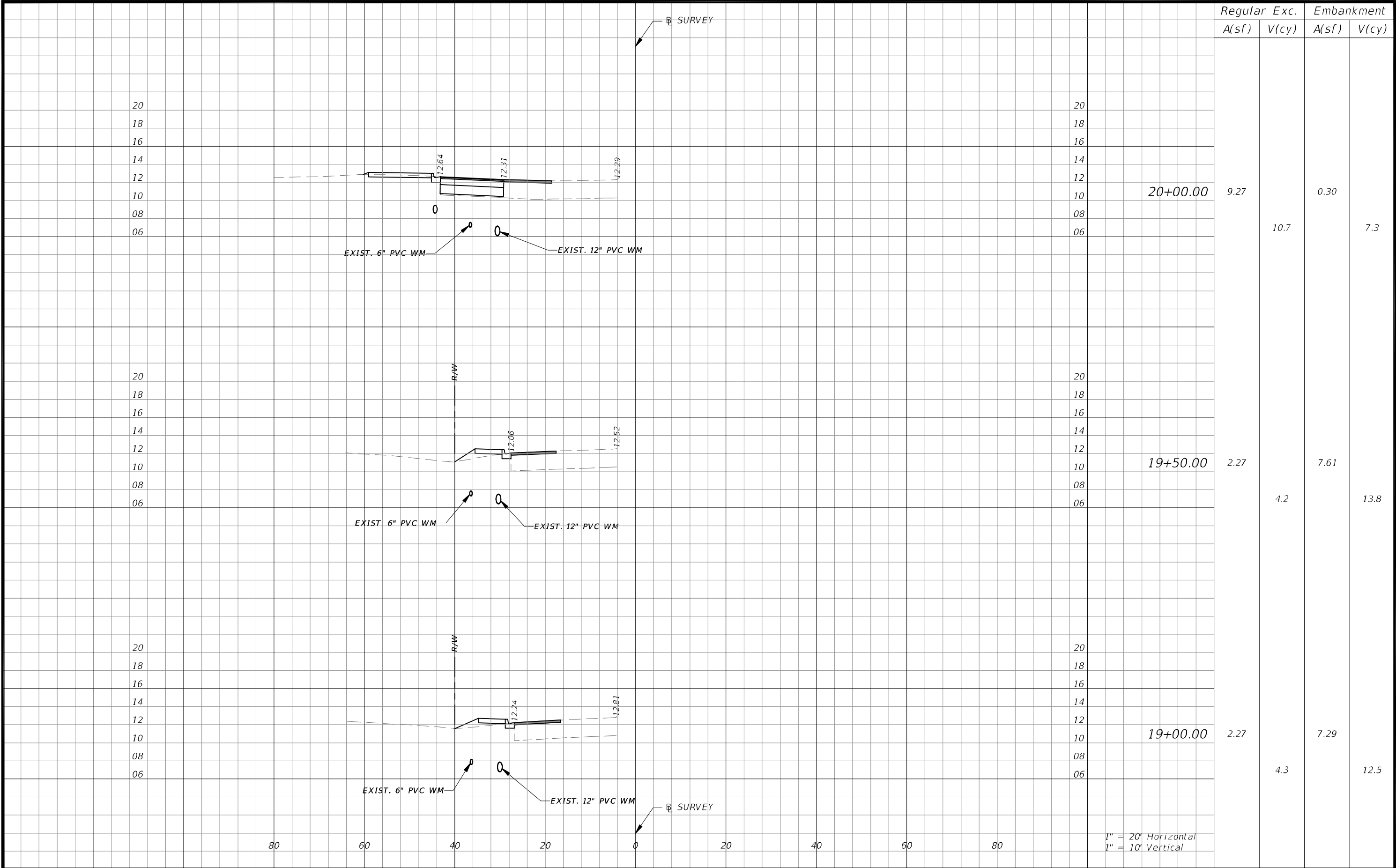
CROSS SECTIONS

SHEET NO. 42

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



REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		43
					LEE COUNTY	20-0016A		



	Regular		Exc.		Embankment	
	A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
20+00.00	9.27	10.7	0.30	7.3		
19+50.00	2.27	4.2	7.61	13.8		
19+00.00	2.27	4.3	7.29	12.5		

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
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CW3

Engineering, Inc.

CW3 ENGINEERING, INC.

5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

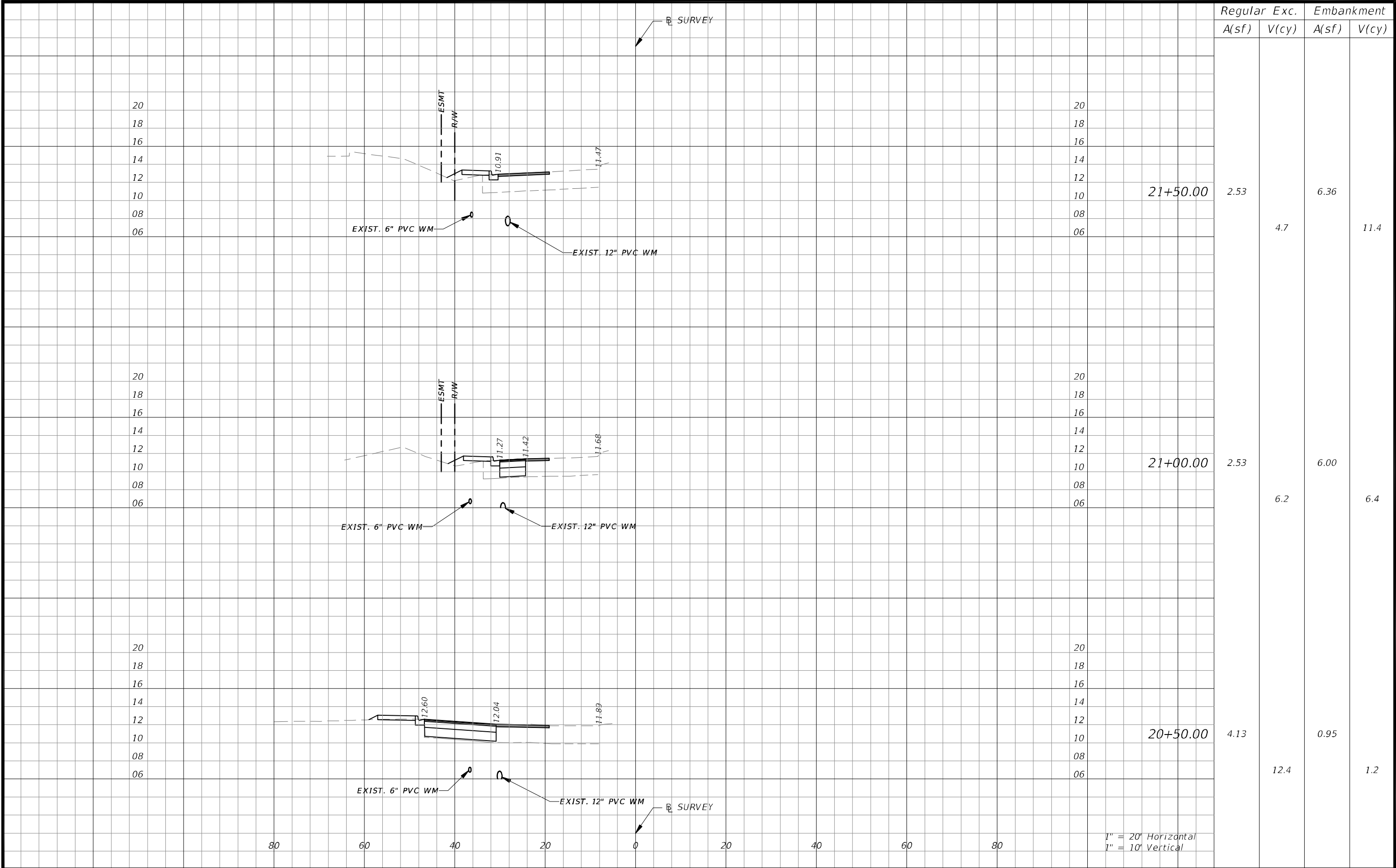
ORANGE RIVER BLVD. SIDEWALK AND
WATERMAIN REPLACEMENT CN200224JJB

COUNTY	PROJECT #
LEE COUNTY	20-0016A

CROSS SECTIONS

SHEET NO. 44

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



Regular		Exc.		Embankment			
A(sf)		V(cy)		A(sf)		V(cy)	
2.53		4.7		6.36		11.4	
2.53		6.2		6.00		6.4	
4.13		12.4		0.95		1.2	

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

CW3

Engineering, Inc.

CW3 ENGINEERING, INC.

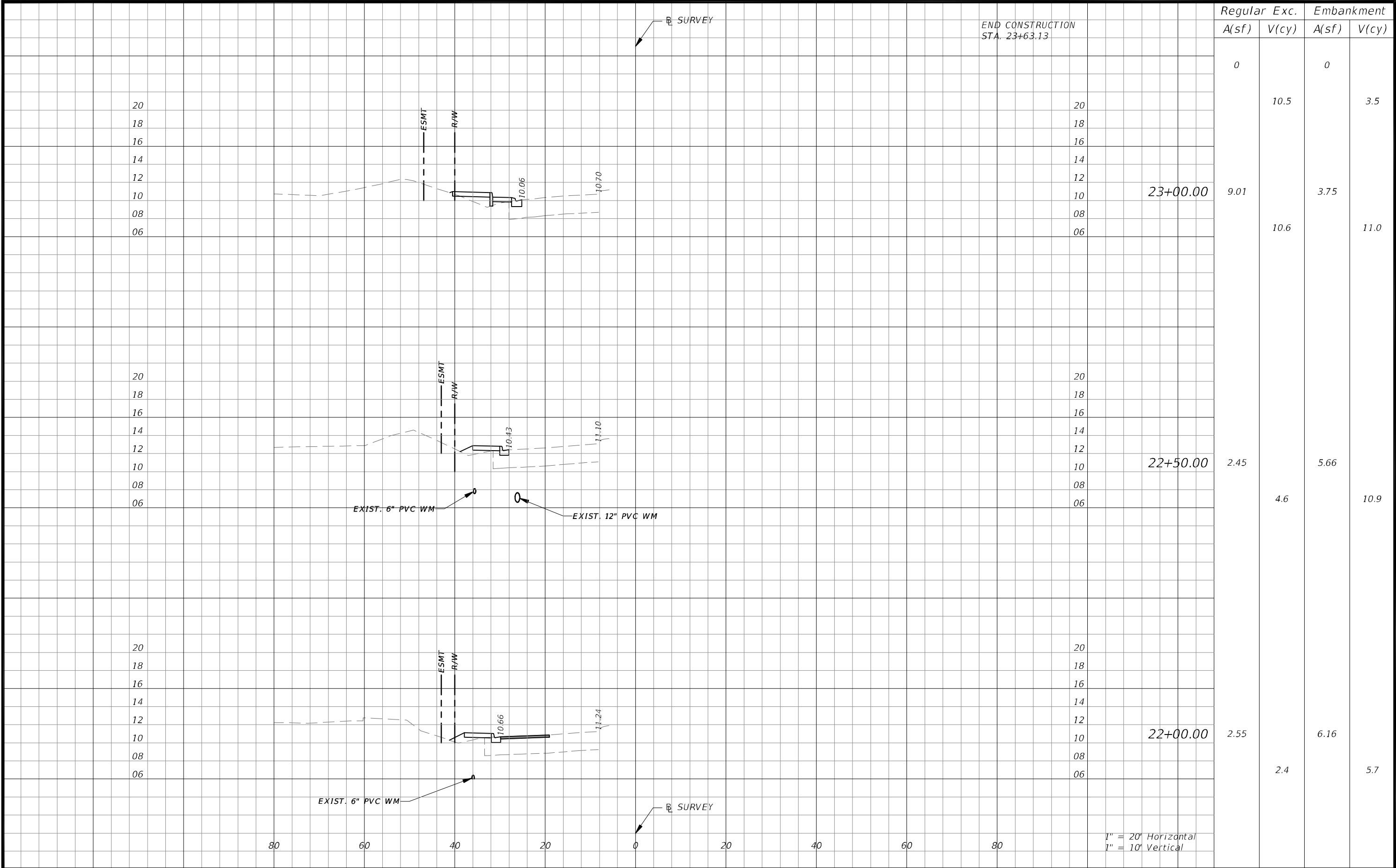
5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

ORANGE RIVER BLVD. SIDEWALK AND
WATERMAIN REPLACEMENT CN200224JJB

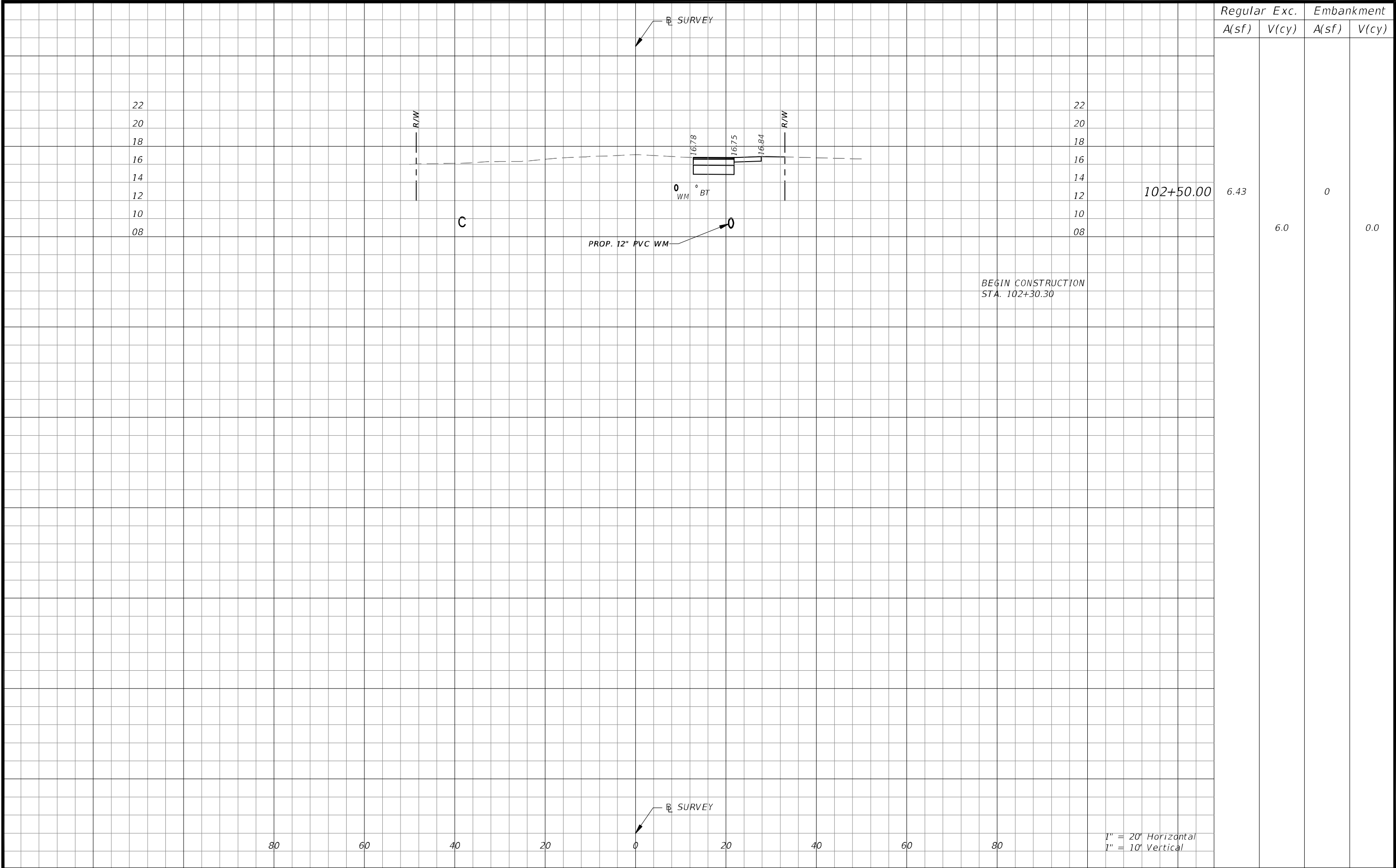
COUNTY	PROJECT #
LEE COUNTY	20-0016A

CROSS SECTIONS

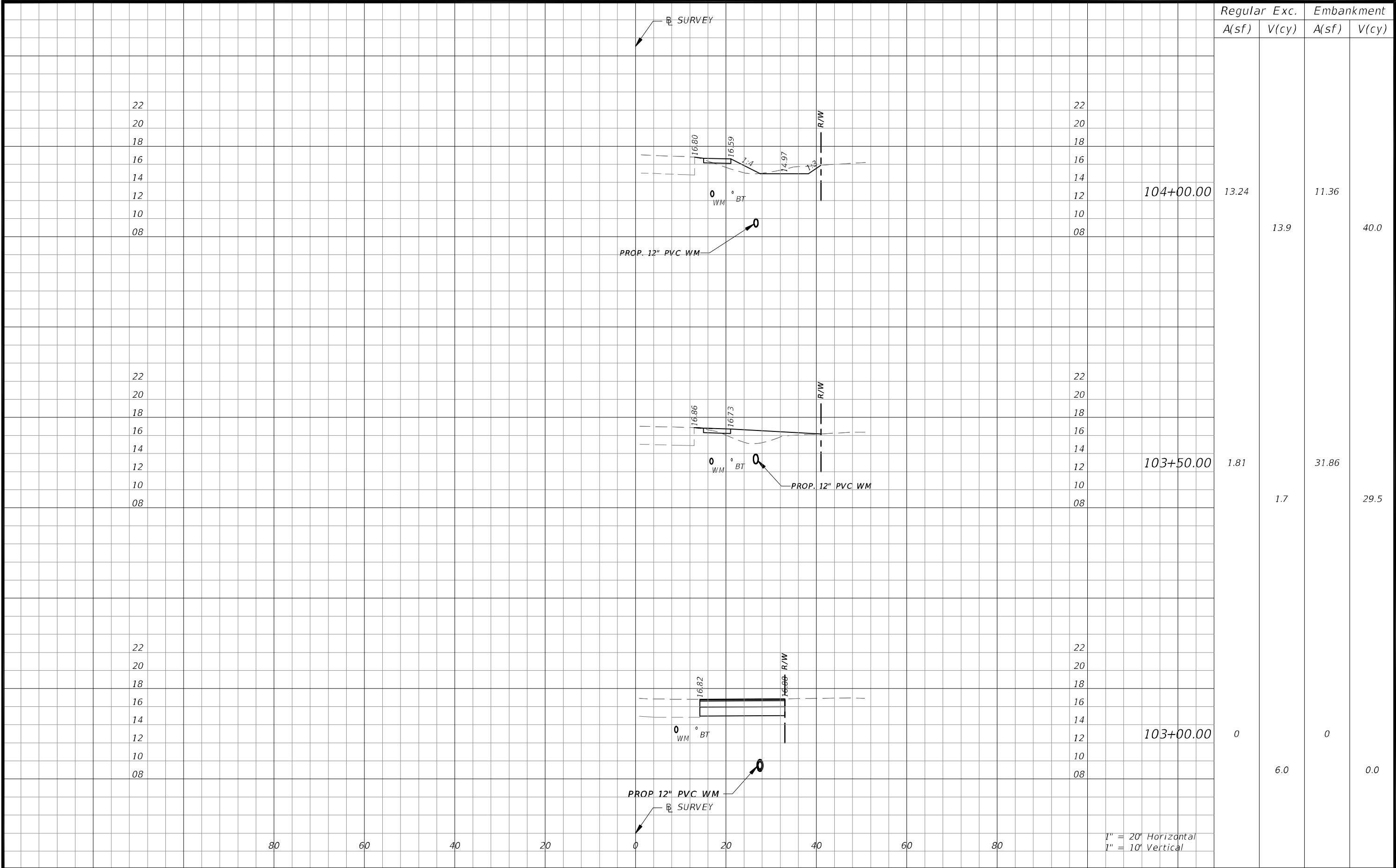
SHEET NO.
45



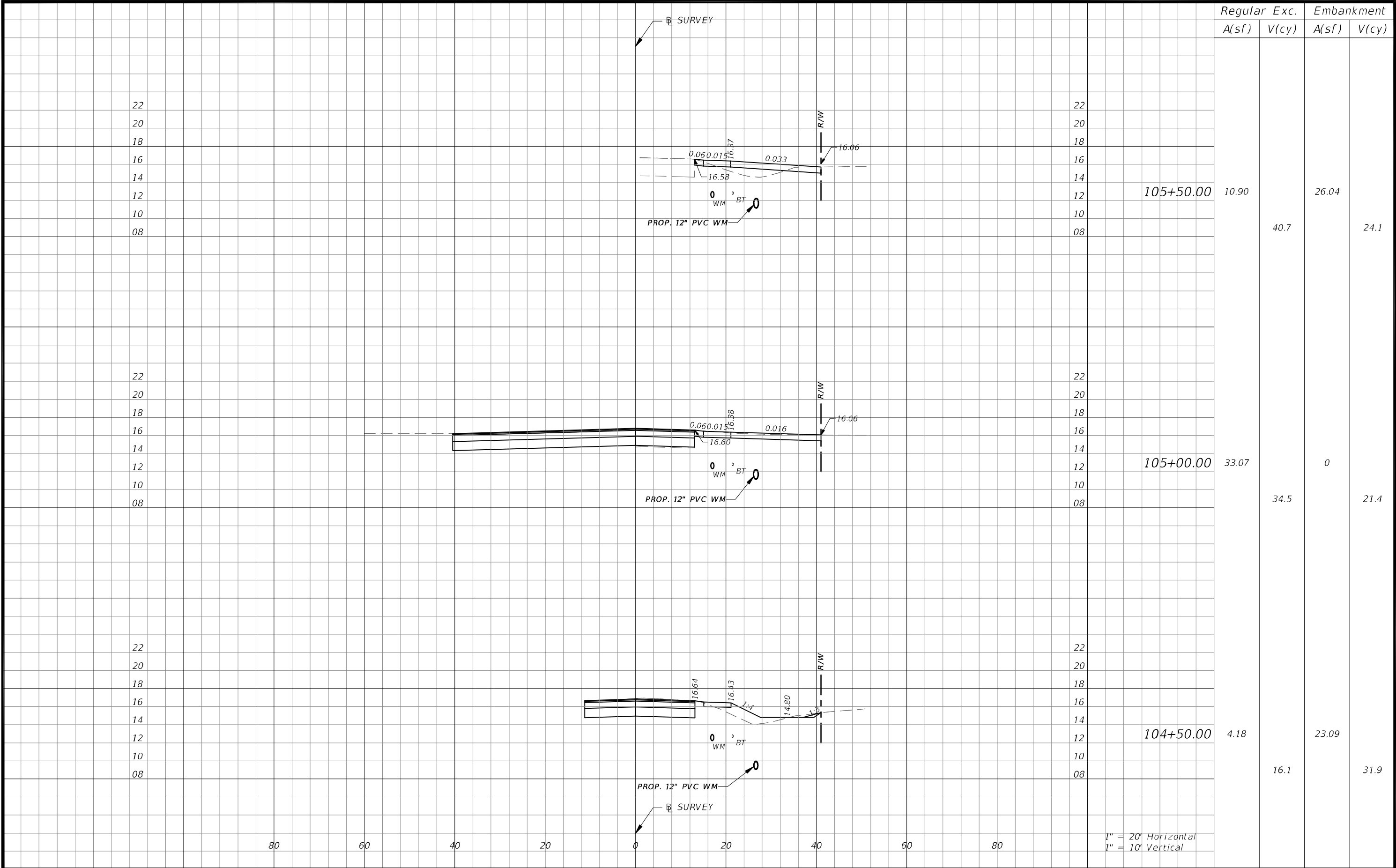
REVISIONS				CW3 Engineering, Inc. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB COUNTYPROJECT # LEE COUNTY20-0016A	CROSS SECTIONS		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					
								46

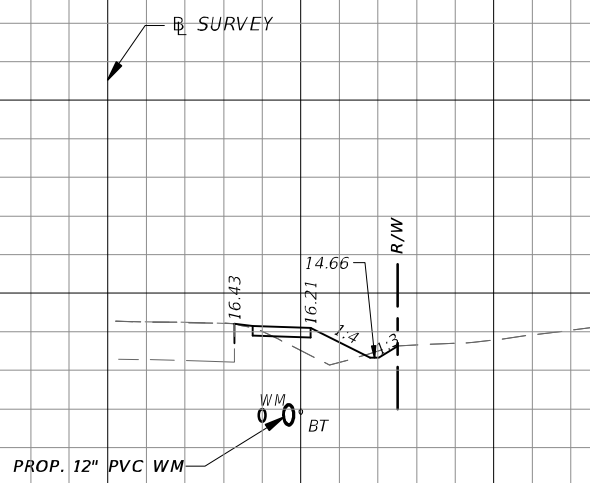
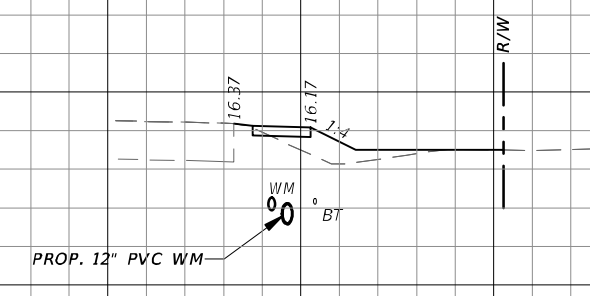
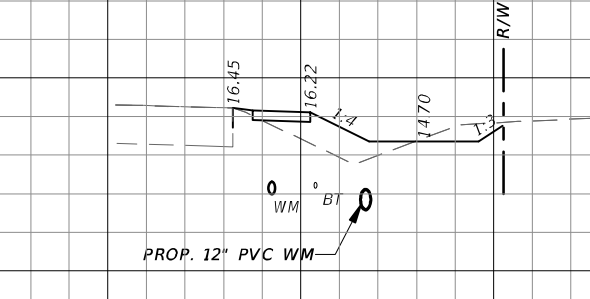


REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		47
					LEE COUNTY	20-0016A		



REVISIONS				CW3 Engineering, Inc. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		CROSS SECTIONS		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					COUNTY	PROJECT #			48
					LEE COUNTY	20-0016A			



										Regular		Exc.		Embankment	
										A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
22	20	18	16	14	12	10	08			2.39		14.73			
											2.9			32.8	
22	20	18	16	14	12	10	08			0.69		20.72			
											10.6			45.6	
22	20	18	16	14	12	10	08			10.78		28.57			
											20.1			50.6	

806040200

200

40

60

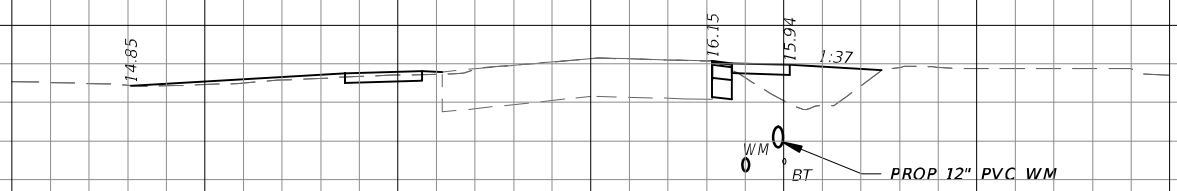
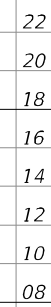
80

1" = 20' Horizontal

1" = 10' Vertical

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

REVISIONS				CW3 Engineering, Inc. CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH: 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		50
					LEE COUNTY	20-0016A		

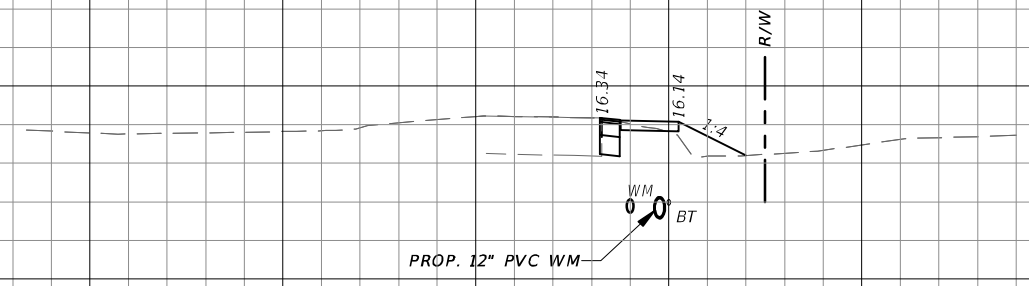
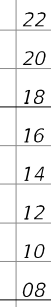


12.48

20.2

44.68

52.0



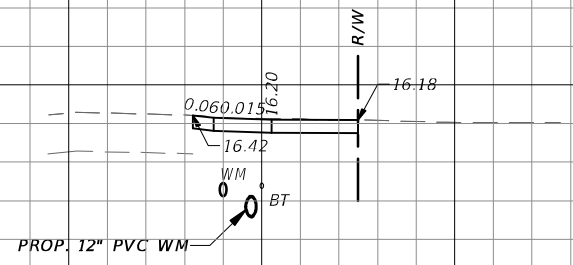
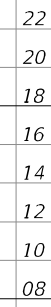
108+00.00				
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9.35

30.5

11.48

10.6

[illegible]

23.57

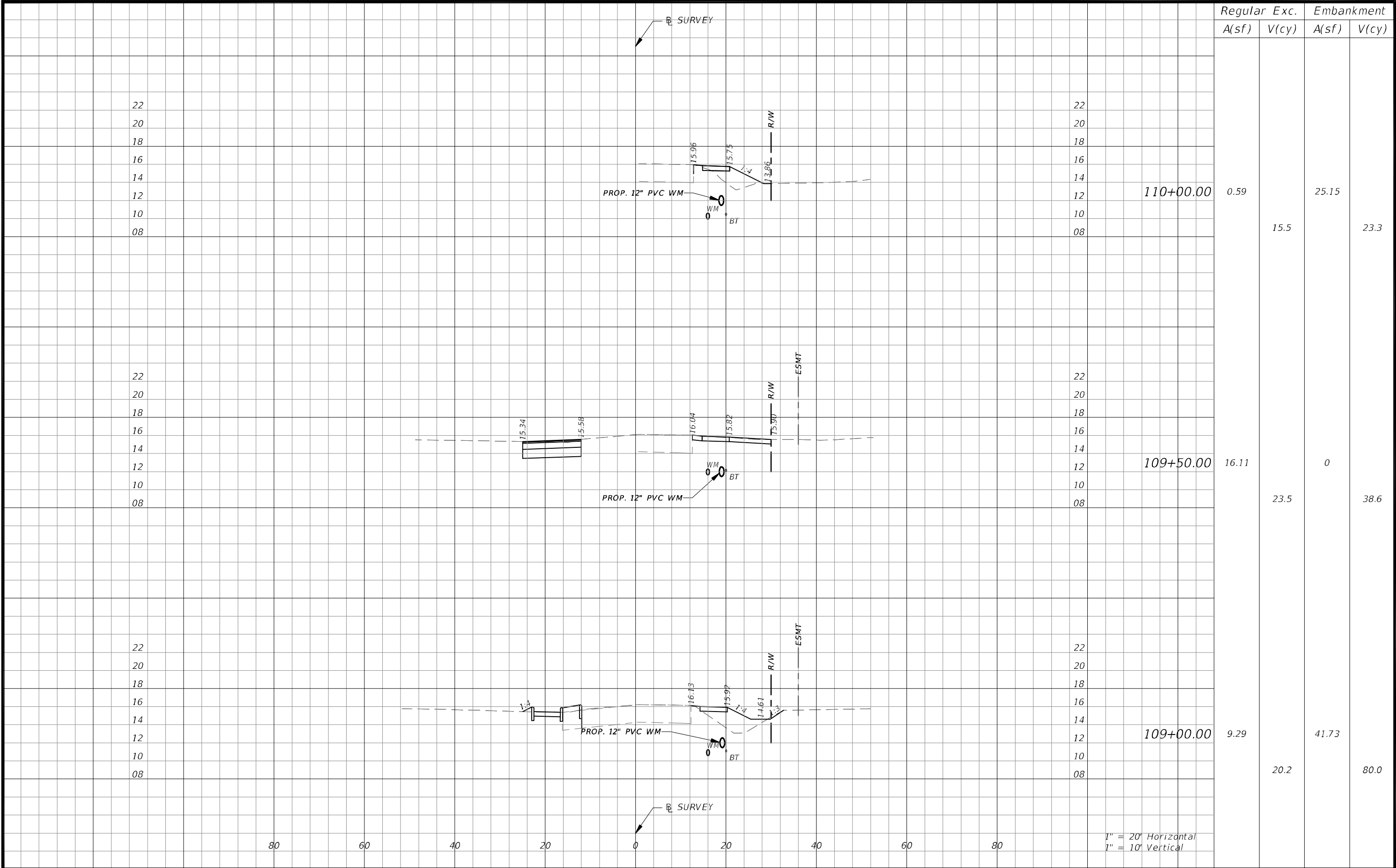
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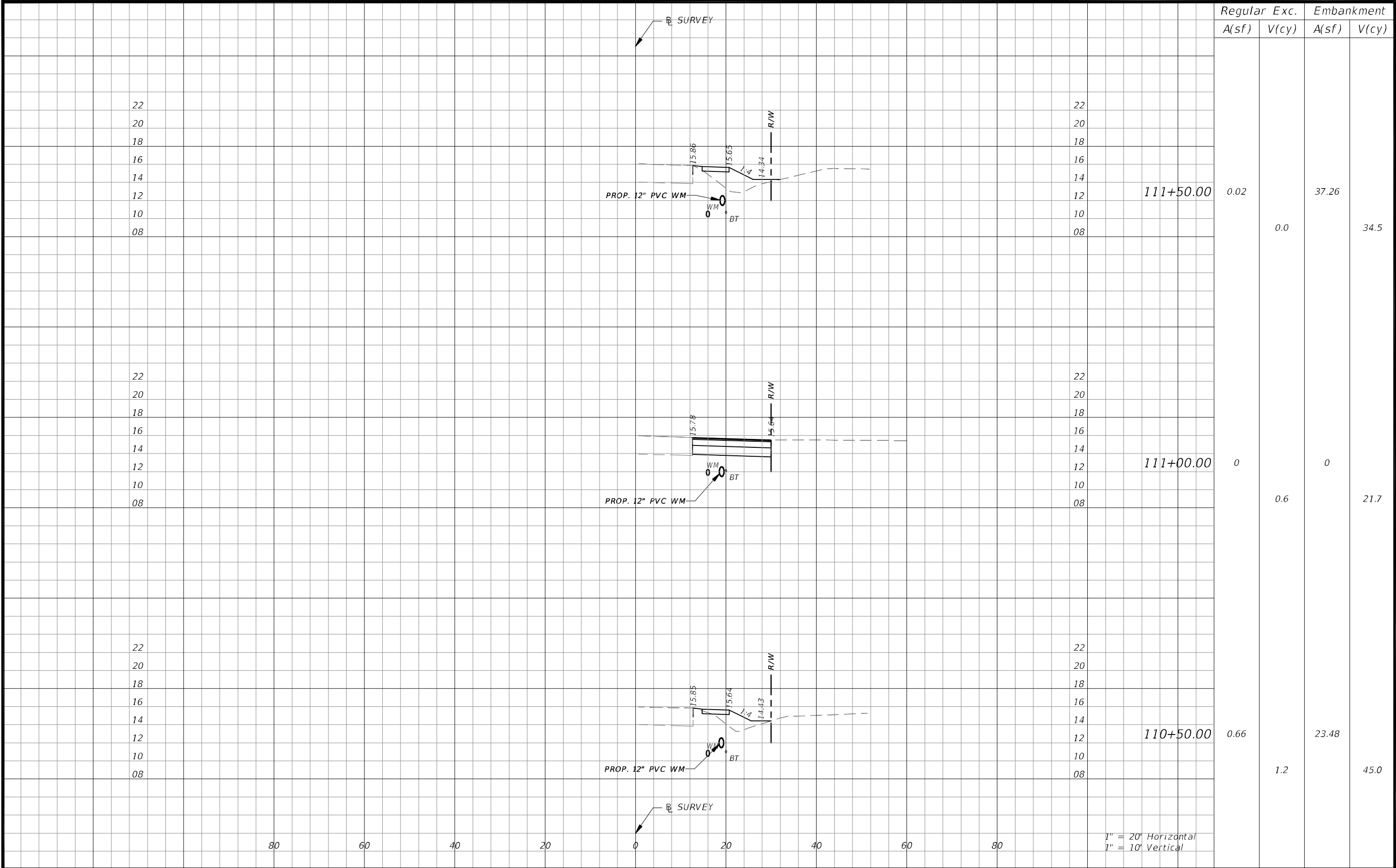
13.6

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

R E V I S I O N S				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		51
					LEE COUNTY	20-0016A		



REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		52
					LEE COUNTY	20-0016A		



Regular		Exc.	Embankment	
A(sf)	V(cy)		A(sf)	V(cy)
0.02			37.26	
	0.0			34.5
0			0	
	0.6			21.7
0.66			23.48	
	1.2			45.0

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

CW3

Engineering, Inc.

CW3 ENGINEERING, INC.

5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

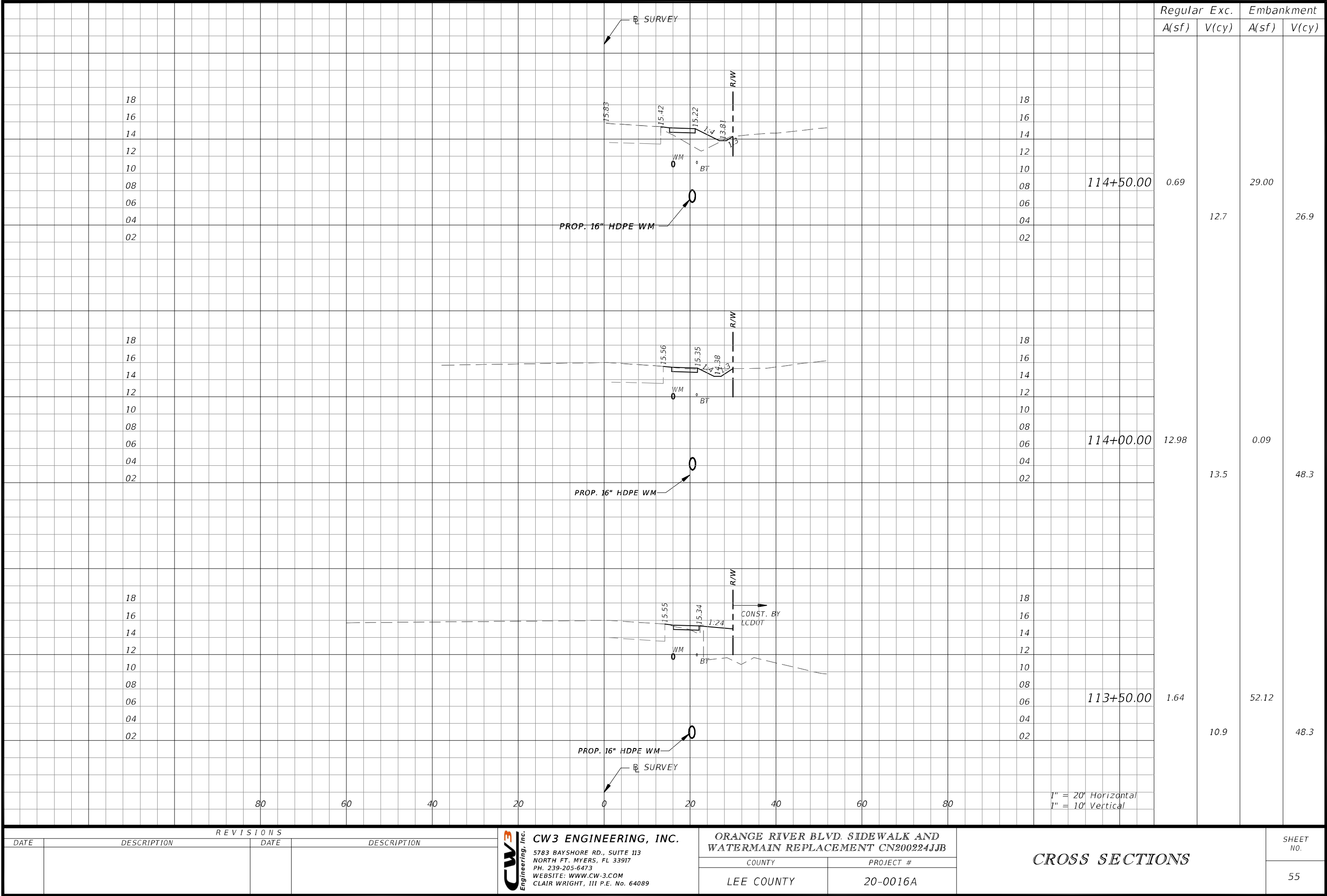
ORANGE RIVER BLVD. SIDEWALK AND
WATERMAIN REPLACEMENT CN200224JJB

COUNTY	PROJECT #
LEE COUNTY	20-0016A

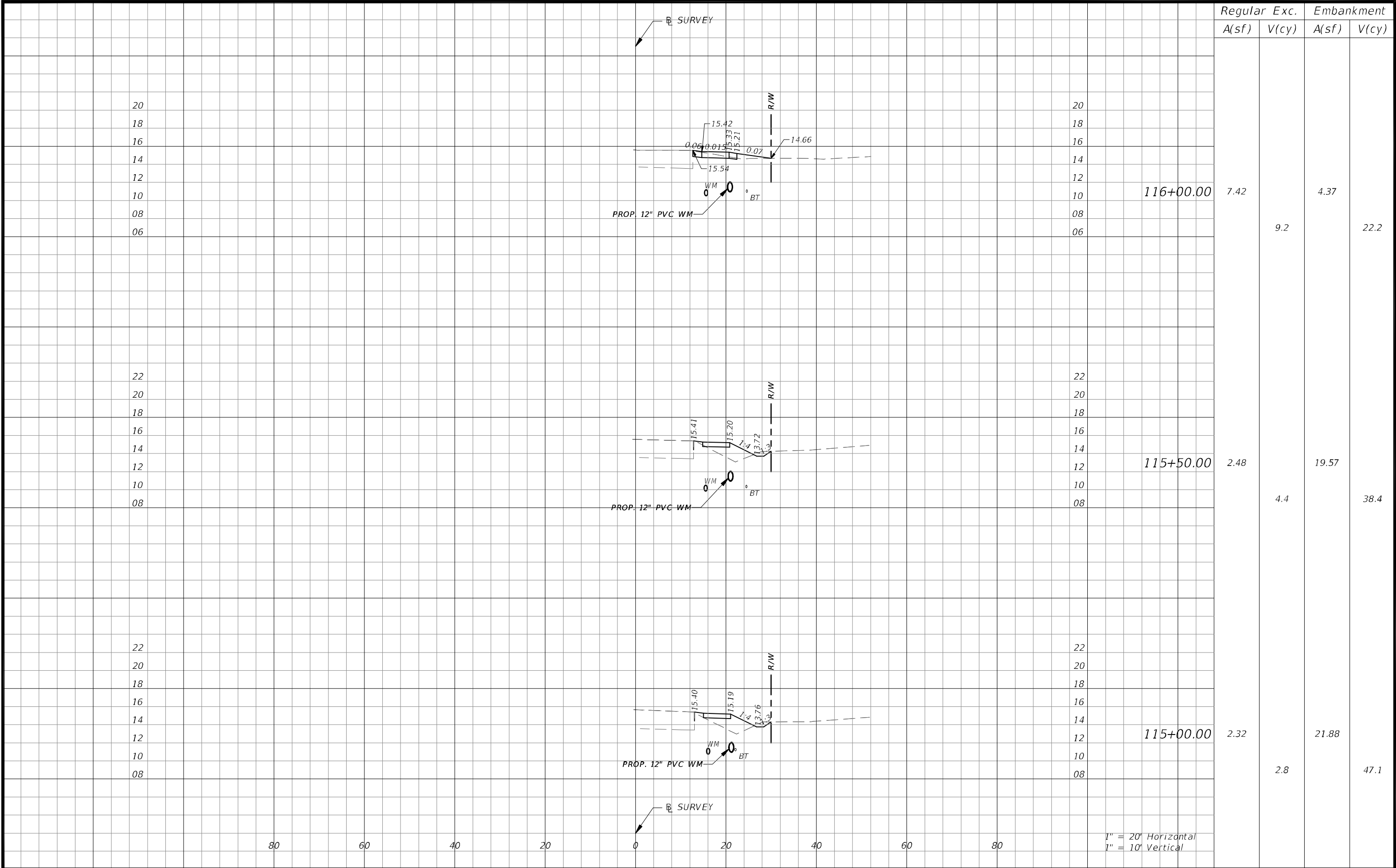
CROSS SECTIONS

SHEET NO.
53

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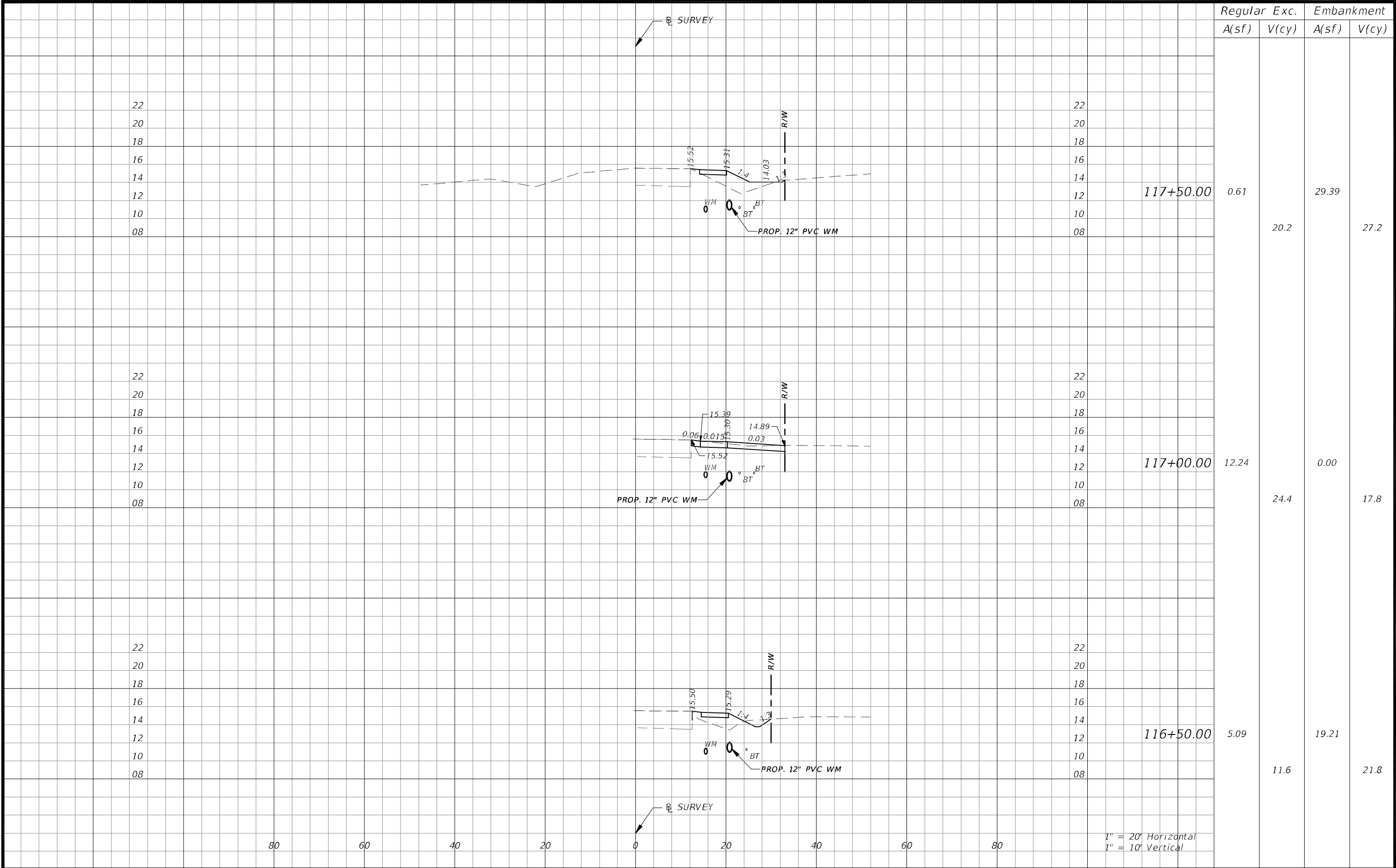
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



	Regular		Exc.		Embankment	
	A(sf)	V(cy)	A(sf)	V(cy)	A(sf)	V(cy)
116+00.00	7.42	9.2	4.37	22.2		
115+50.00	2.48	4.4	19.57	38.4		
115+00.00	2.32	2.8	21.88	47.1		

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DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		
								56

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Regular		Exc.	Embankment	
A(sf)	V(cy)		A(sf)	V(cy)
0.61	20.2		29.39	27.2
12.24	24.4		0.00	17.8
5.09	11.6		19.21	21.8

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

CW3

Engineering, Inc.

CW3 ENGINEERING, INC.

5783 BAYSHORE RD., SUITE 113

NORTH FT. MYERS, FL 33917

PH. 239-205-6473

WEBSITE: WWW.CW-3.COM

CLAIR WRIGHT, III P.E. No. 64089

ORANGE RIVER BLVD. SIDEWALK AND

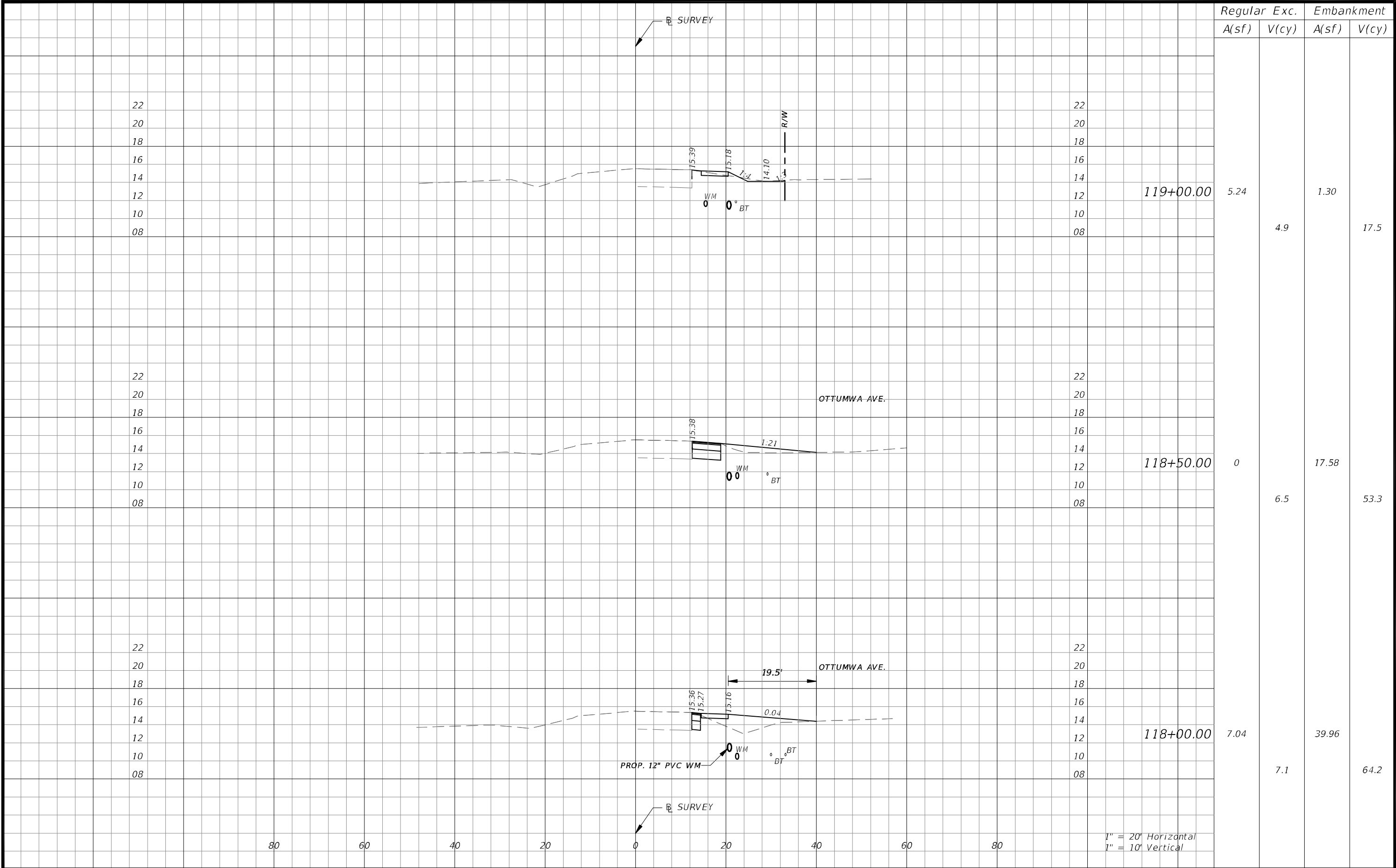
WATERMAIN REPLACEMENT CN200224JJB

COUNTY	PROJECT #
LEE COUNTY	20-0016A

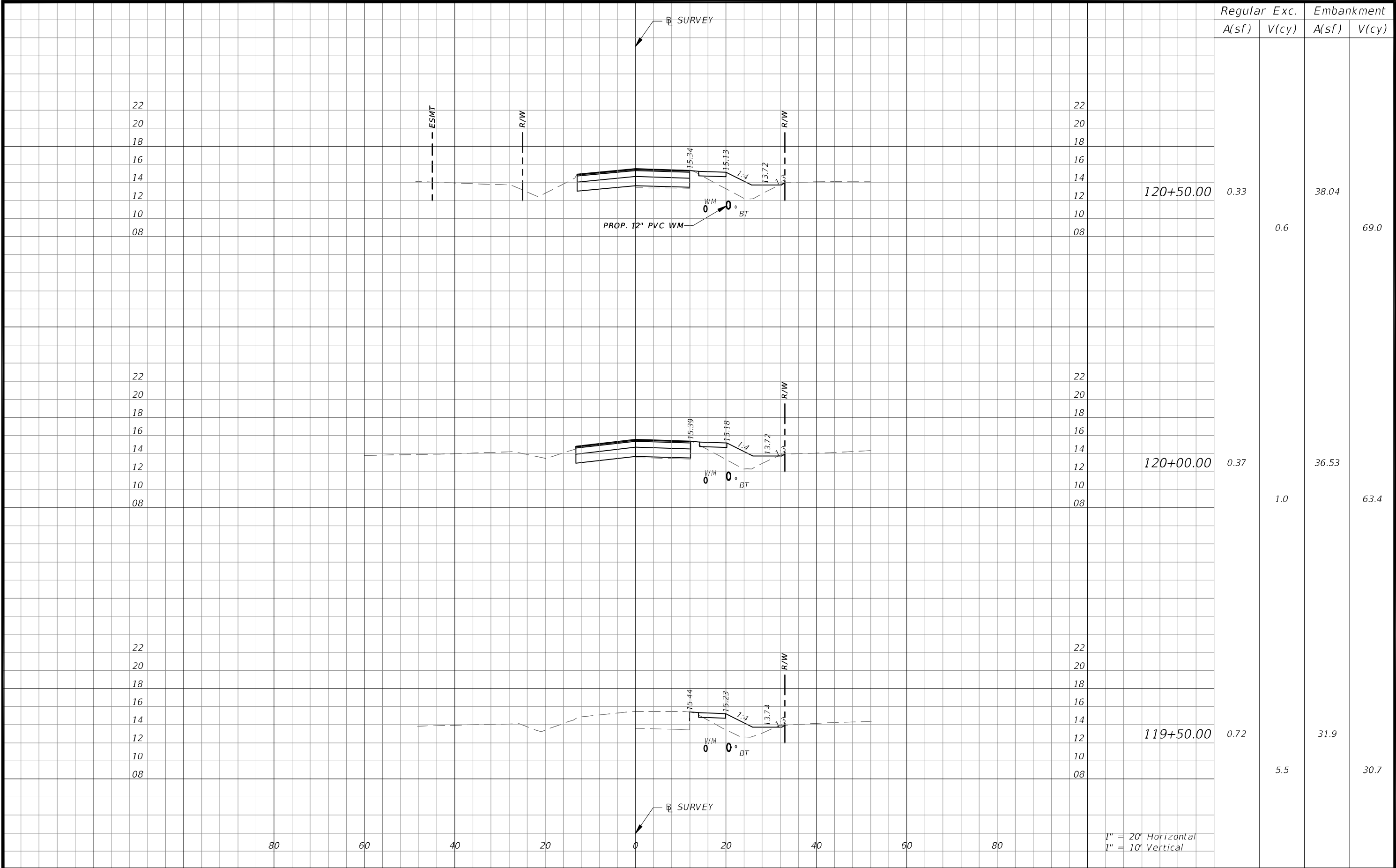
CROSS SECTIONS

SHEET NO. 57

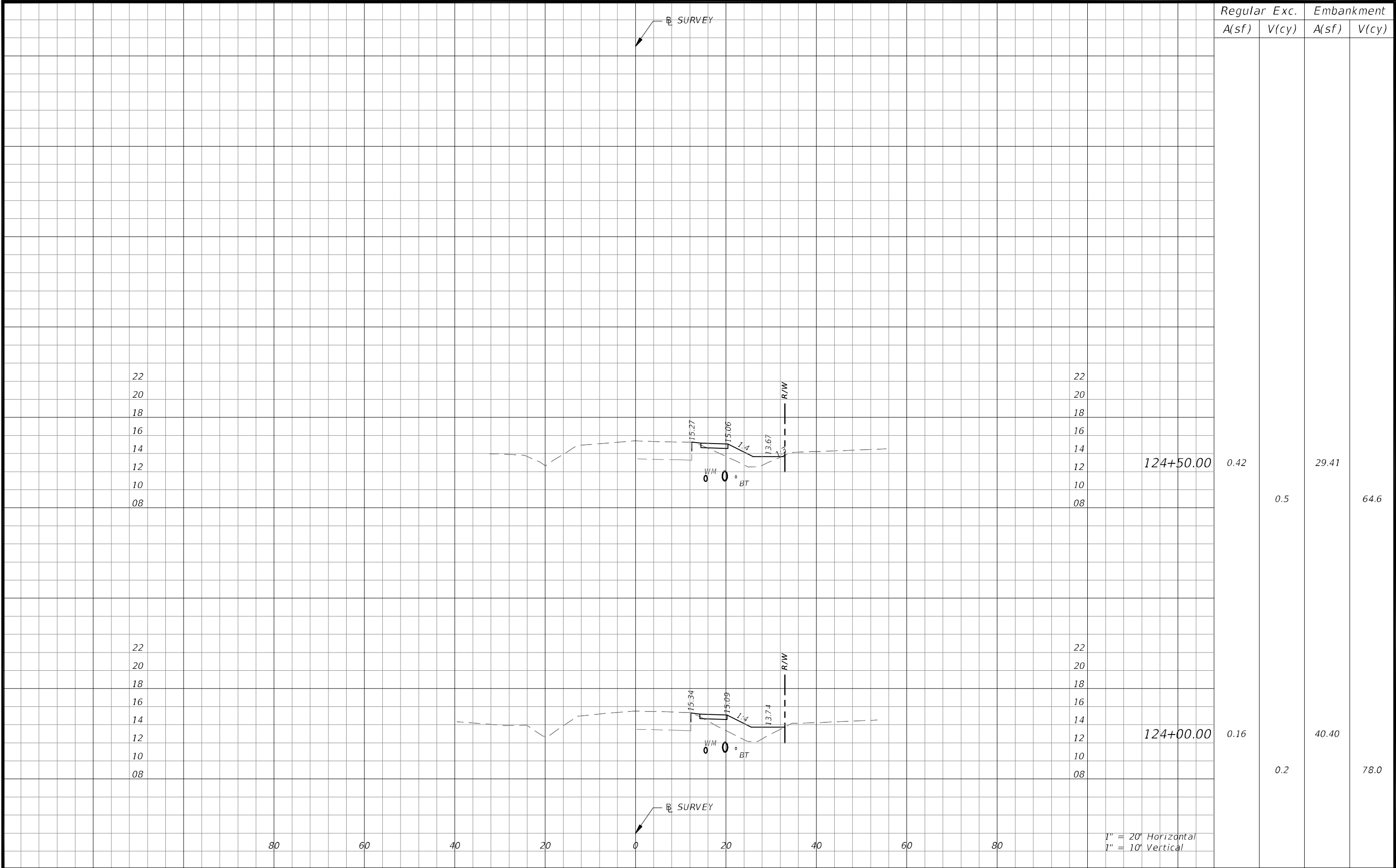
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



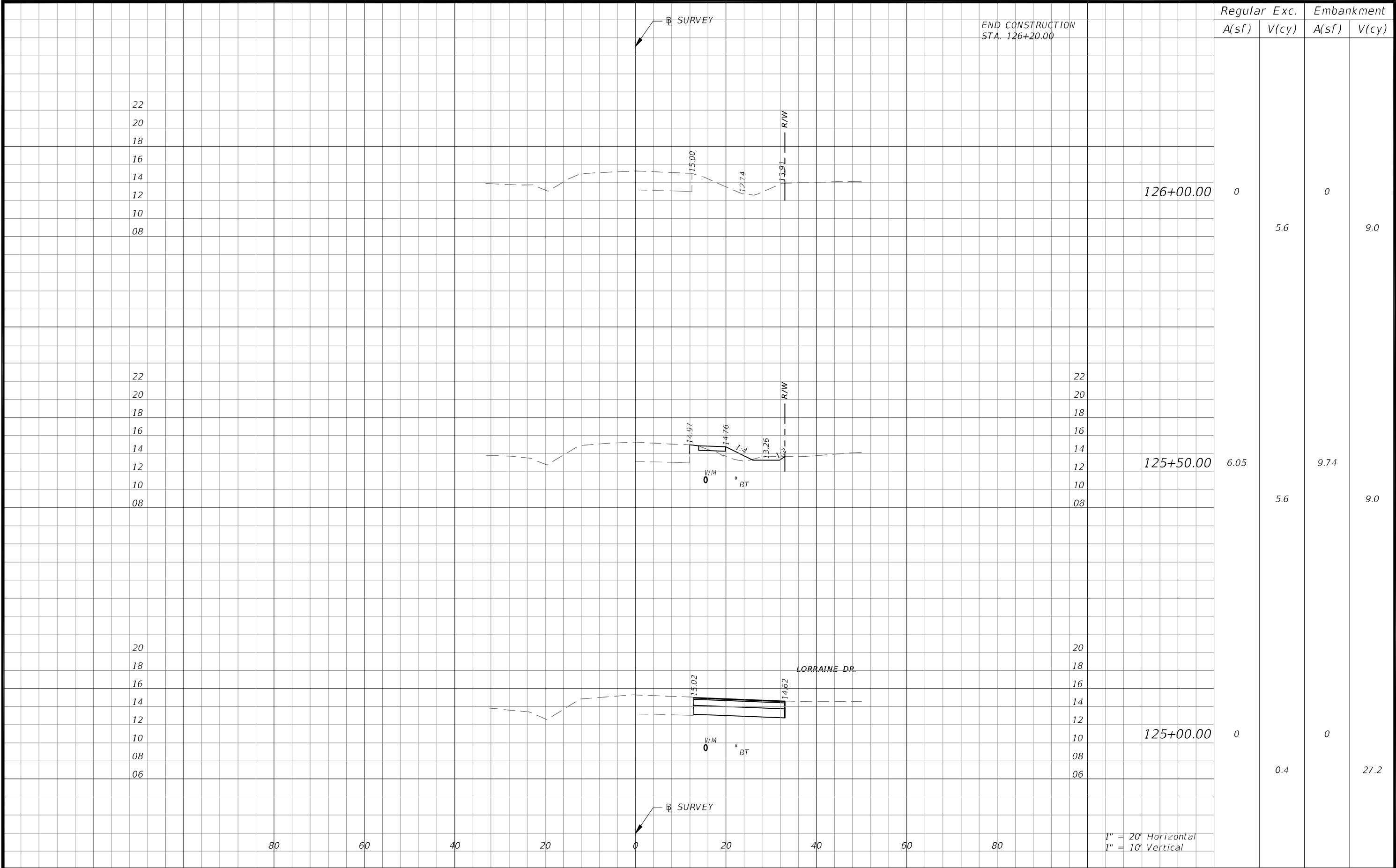
REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		58
					LEE COUNTY	20-0016A		



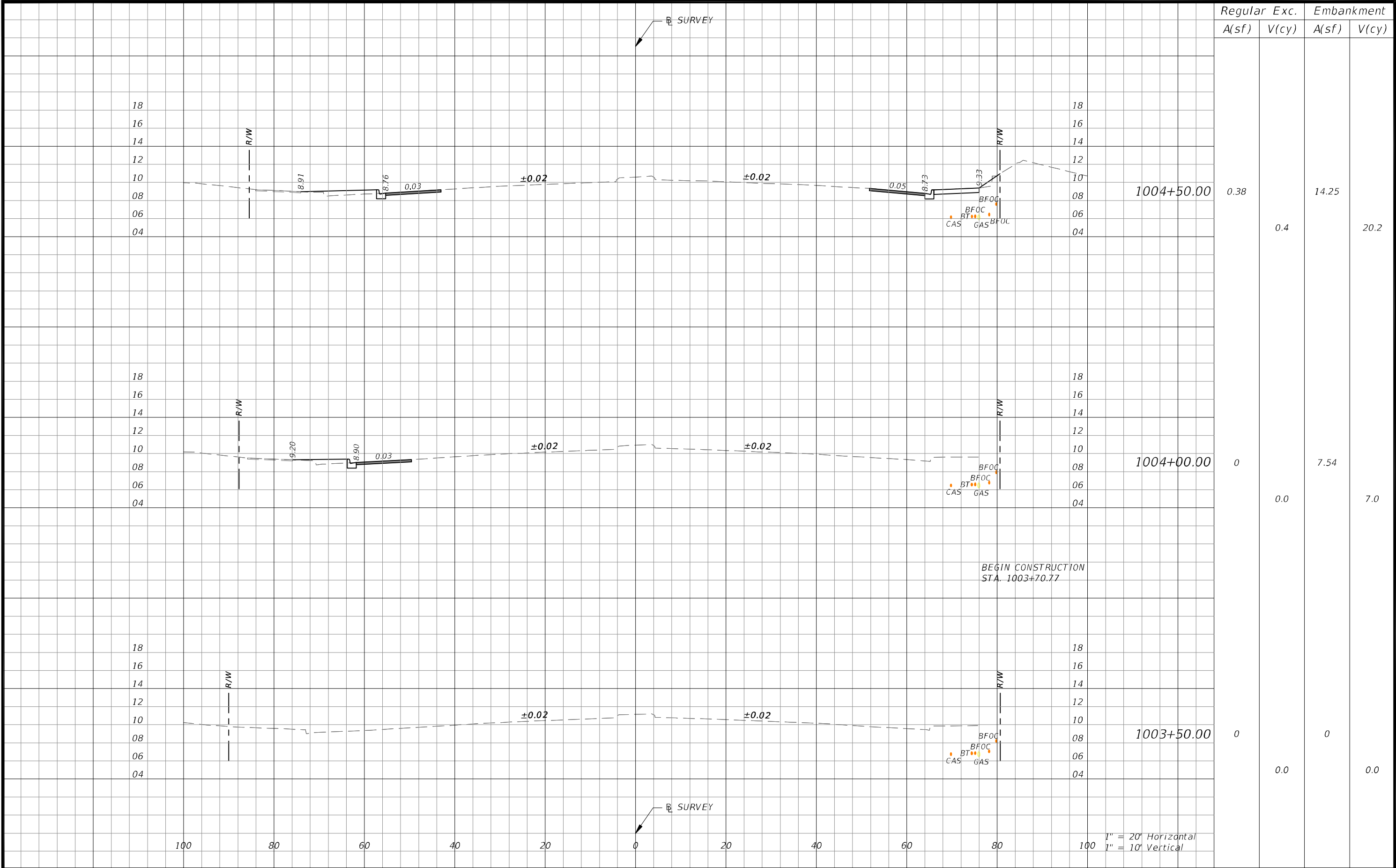
REVISIONS				CW3 Engineering, Inc. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		CROSS SECTIONS		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
					COUNTY	PROJECT #			59
					LEE COUNTY	20-0016A			



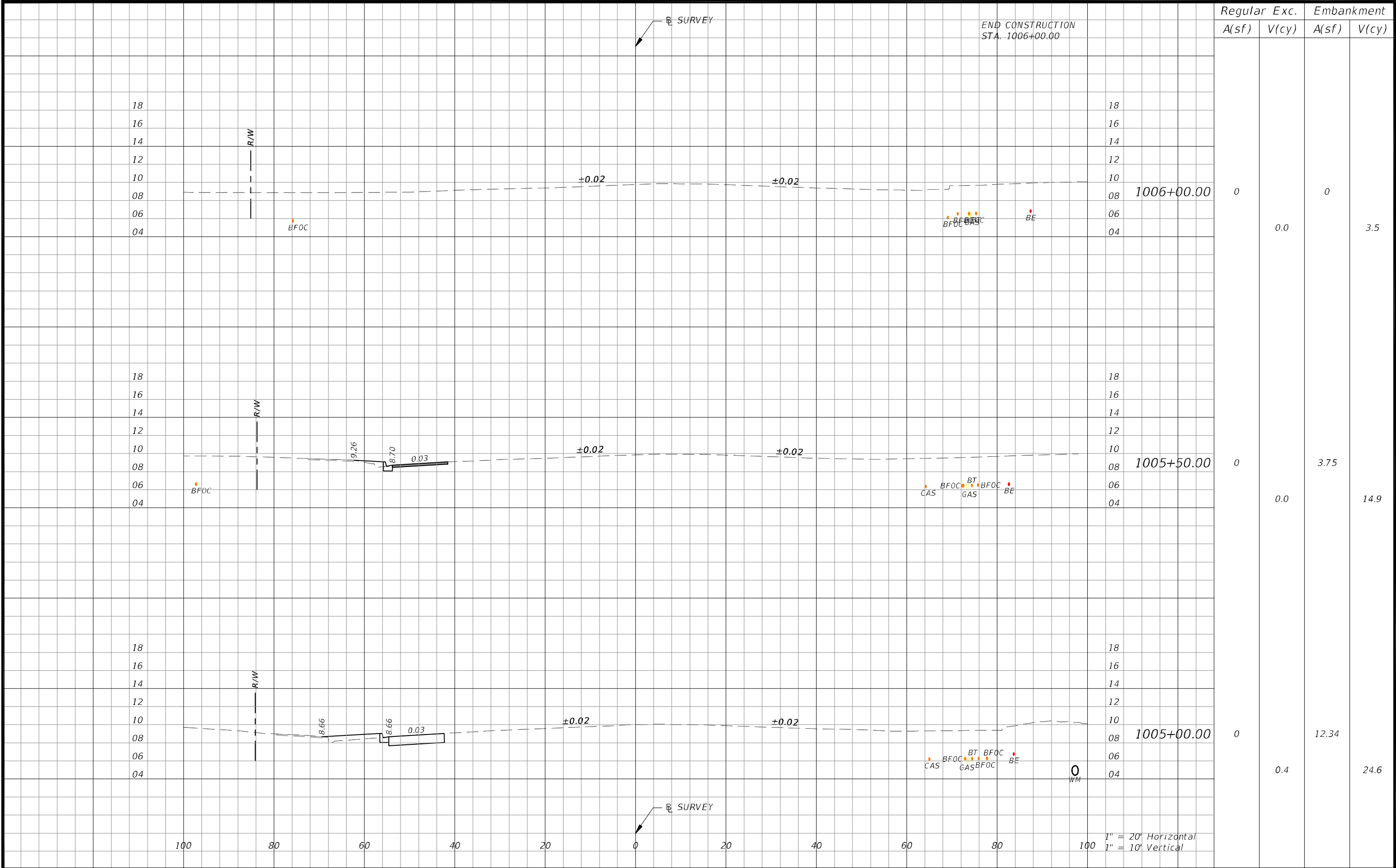
REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		62
					LEE COUNTY	20-0016A		



REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		63
					LEE COUNTY	20-0016A		



REVISIONS				CW3 Engineering, Inc. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		CROSS SECTIONS		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						
									63A



Regular		Exc.	Embankment	
A(sf)	V(cy)		A(sf)	V(cy)
0	0.0		0	3.5
0	0.0		3.75	14.9
0	0.4		12.34	24.6

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

CW3

Engineering, Inc.

CW3 ENGINEERING, INC.
5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

ORANGE RIVER BLVD. SIDEWALK AND
WATERMAIN REPLACEMENT CN200224JJB

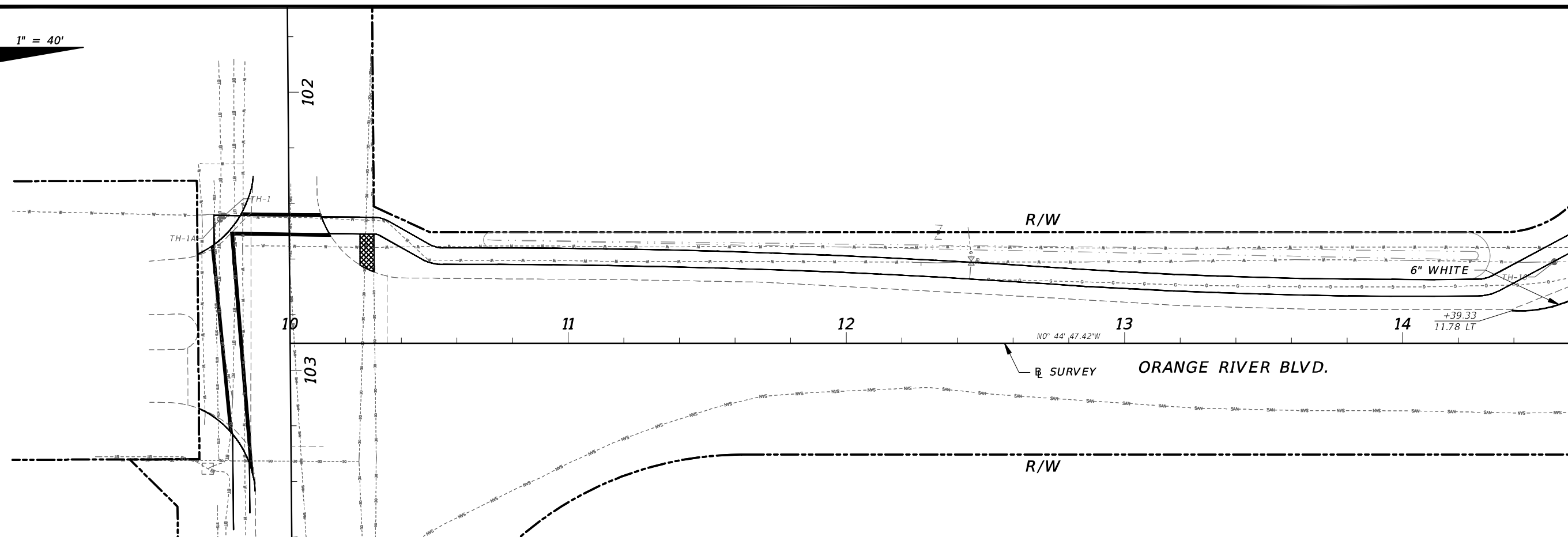
COUNTY	PROJECT #
LEE COUNTY	20-0016A

CROSS SECTIONS

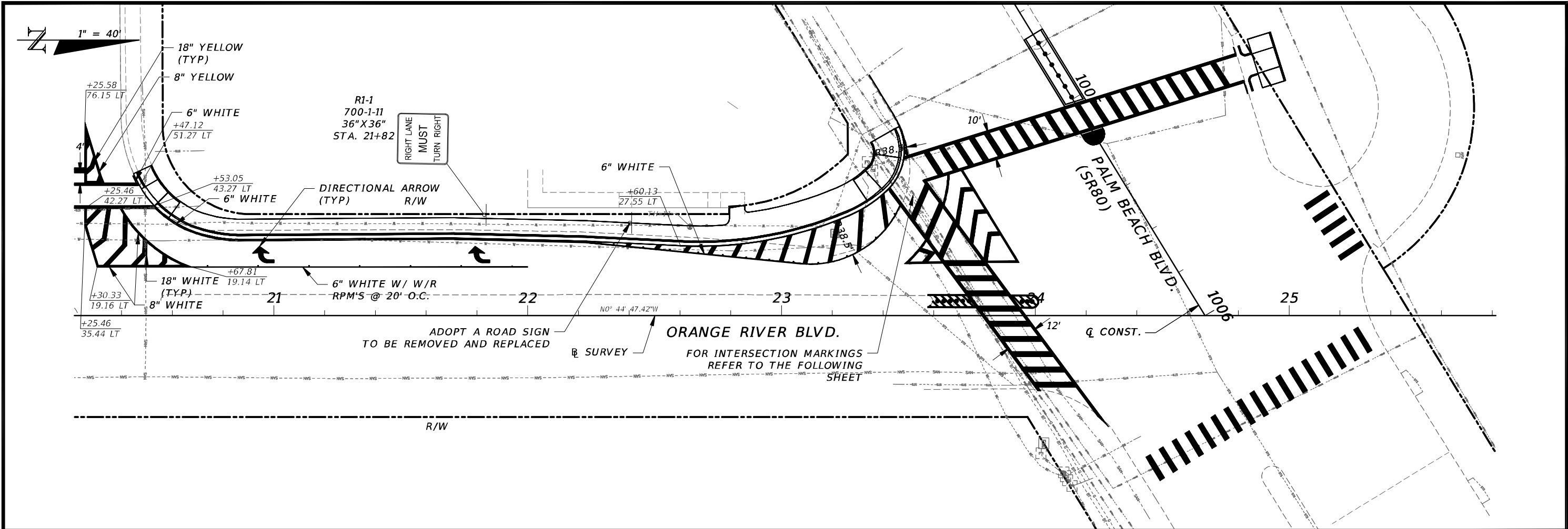
SHEET NO.

63B

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December 19, 2024 - 2:41pm J:\20-0016A Orange River SW\CADD\DWG\64-20-0016A-SPM.dwg



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

CW3

Engineering, Inc.

CW3 ENGINEERING, INC.

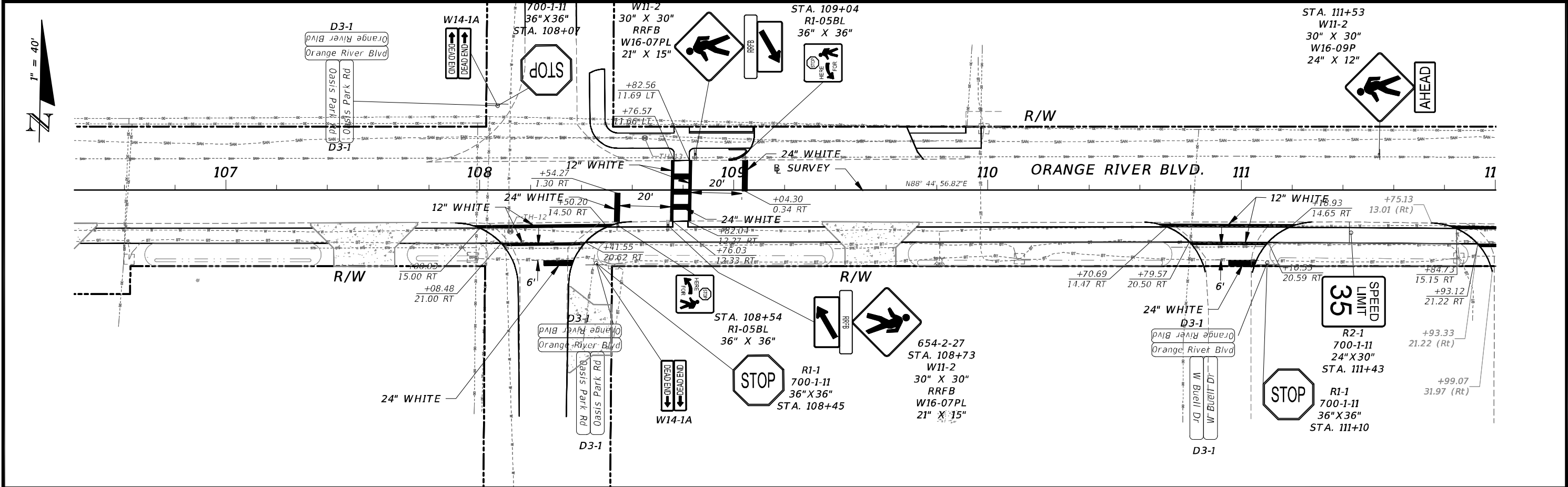
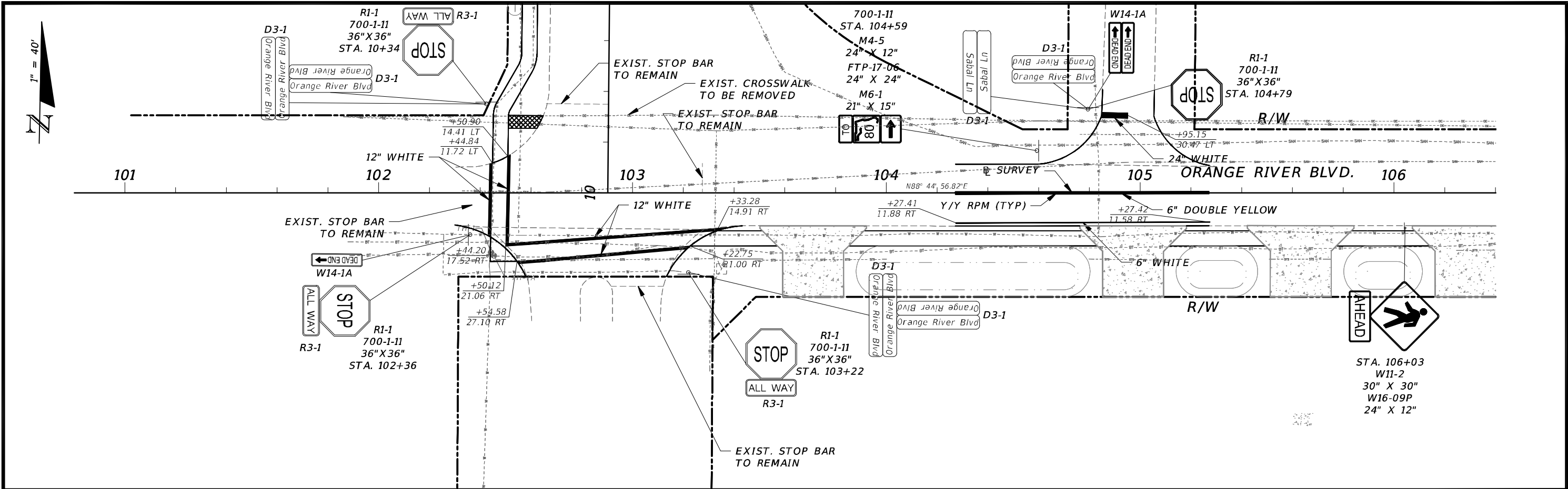
5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB	
COUNTY	PROJECT #
LEE COUNTY	20-0016A

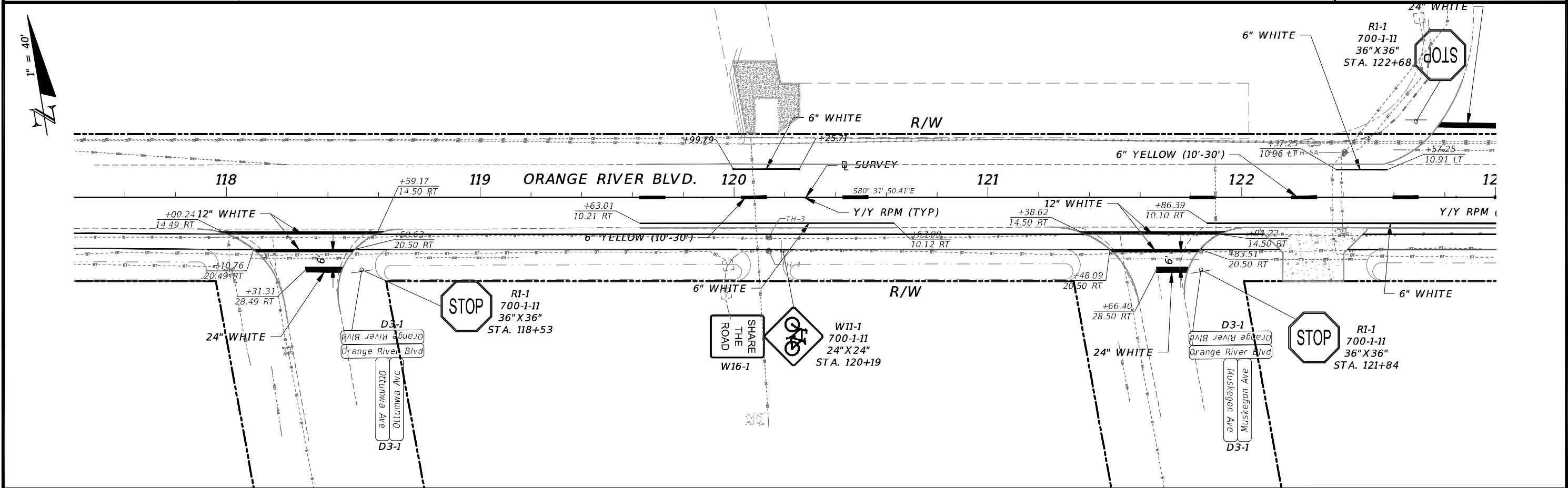
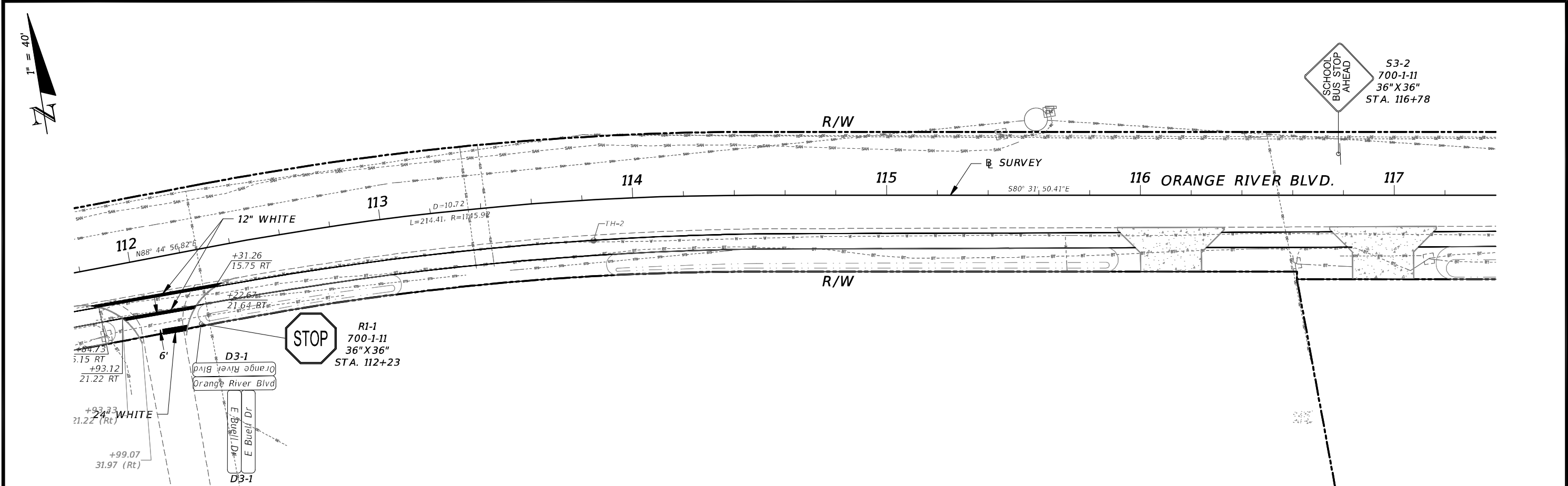
SIGNING AND PAVEMENT MARKING PLAN

SHEET NO.

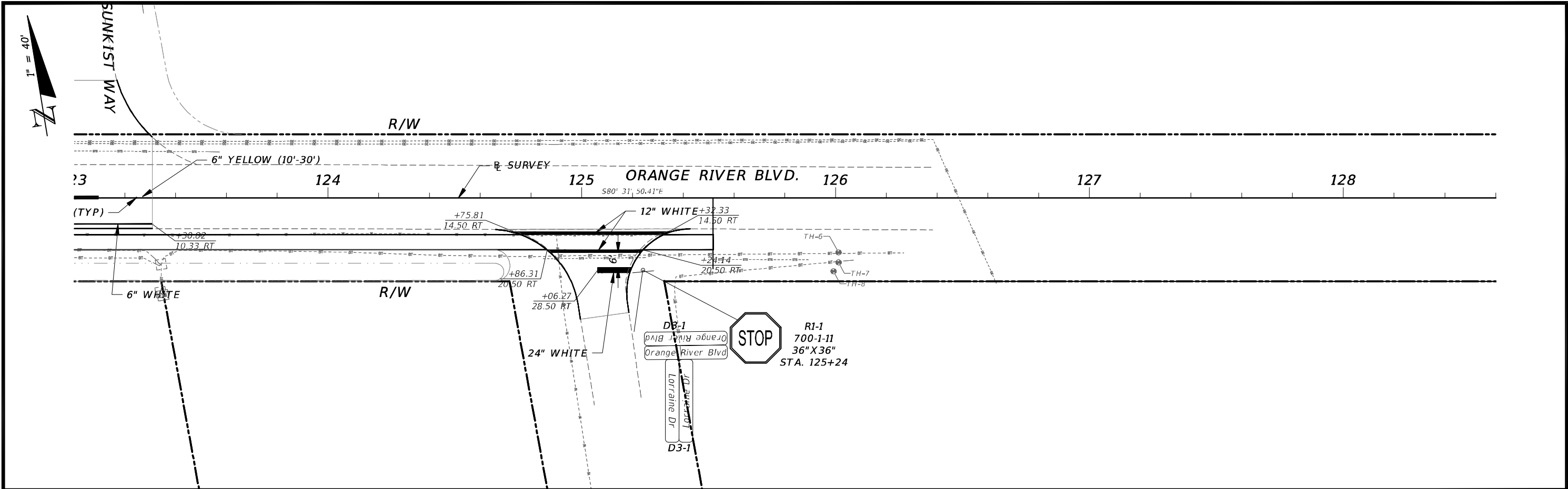
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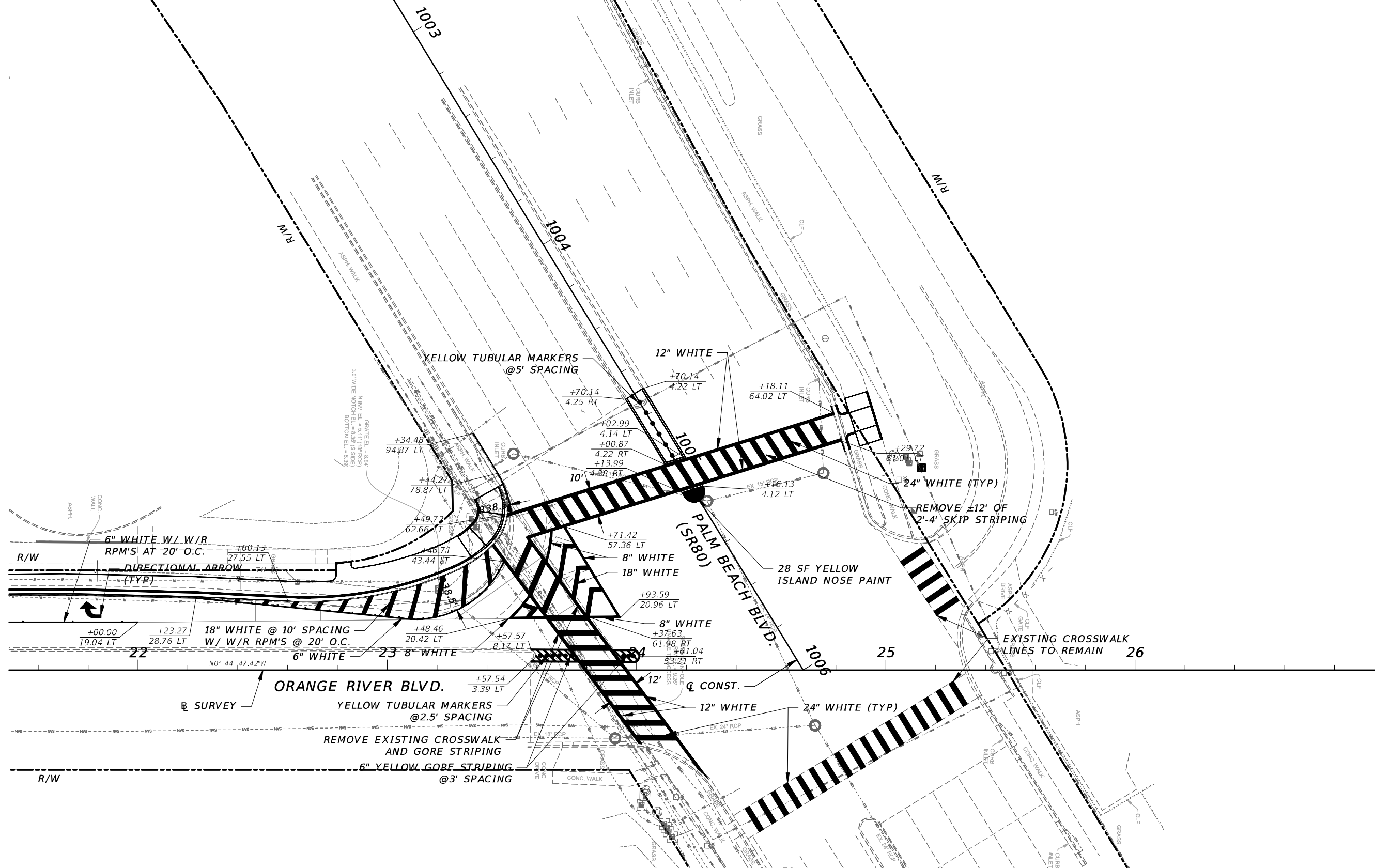
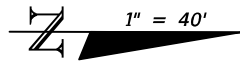
REVISIONS				CW3 ENGINEERING, INC.	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB	SIGNING AND PAVEMENT MARKING PLAN		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					
				5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	COUNTY LEE COUNTY	PROJECT # 20-0016A		66



REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		SIGNING AND PAVEMENT MARKING PLAN	SHEET NO. 67
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		



REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		<i>SIGNING AND PAVEMENT MARKING PLAN</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		68
					LEE COUNTY	20-0016A		



REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		SIGNING AND PAVEMENT MARKING PLAN	SHEET NO. 68A
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		

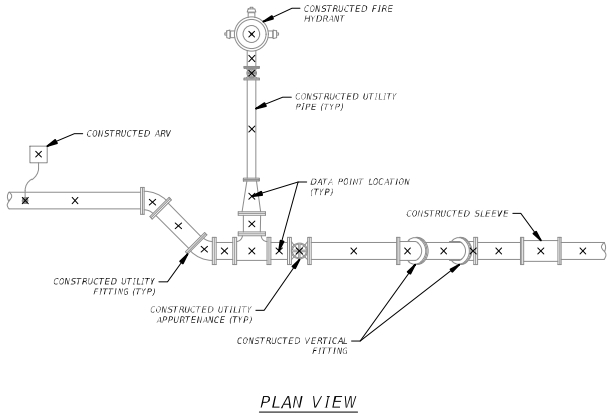
TEMPORARY TRAFFIC CONTROL NOTES:

1. CONTRACTOR MUST SUBMIT A SIGNED AND SEALED, DETAILED TEMPORARY TRAFFIC CONTROL PLAN BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA TO LEE COUNTY AND THE ENGINEER AT LEAST 2 WEEKS PRIOR TO THE START OF CONSTRUCTION FOR WORK ALONG PALM BEACH BLVD (SR80) AND ORANGE RIVER BLVD. THE TTC PLAN MUST INCLUDE, BUT NOT LIMITED TO: DETOURS, LANE CLOSURE DETAILS AND WHOLE ROAD CLOSURE DETAILS.
2. CONTRACTOR MUST CONDUCT CONSTRUCTION TO MINIMIZE INTERFERENCE WITH, OR INTERRUPTION OF VEHICULAR, BICYCLE OR PEDESTRIAN TRAFFIC UPON AND ALONG THE ROADWAY.
3. PEDESTRIAN AND BICYCLE FACILITIES SHALL BE MAINTAINED IN ACCORDANCE OF THE LATEST EDITION OF THE FDOT STANDARD PLANS 102 SERIES.
4. LANE COSURE RESTRICTIONS APPLY, NO LANE CLOSURES BETWEEN 6AM TO 7PM ON SR80 (PALM BEACH BLVD.)
5. ALL TRAFFIC LANES ALONG ORANGE RIVER BLVD. MUST BE KEPT OPEN FROM 6:00 AM TO 9:00 AM AND FROM 3:00 PM TO 7:00 PM.
6. DURING PEAK SEASON (THANKSGIVING - EASTER) DAY TIME LANE CLOSURES WILL NOT BE PERMITTED. DURING THIS TIME, ONE WEEK LANE CLOSURES WILL BE ALLOWED TO COMMENCE AFTER 7:00 PM AND ALL LANES RE-OPENED AT 5:00 AM. LANE CLOSURES MAY BE DONE ON WEEKENDS WITH ADVANCED NOTICE TO LEE COUNTY.
7. IF DEEMED NECESSARY BY THE CONTRACTOR, ORANGE RIVER BLVD AND SIDE STREETS MAY BE SHUT DOWN TO COMPLETE THE REQUIRED WORK. ONLY ONE WATERMAIN CROSSING IS ALLOWED PER CLOSURE. ORANGE RIVER BLVD CLOSURE WILL BE ALLOWED TO COMMENCE AFTER 8:00 PM AND ALL LANES ARE TO BE REOPENED AT 5:00 AM.
8. THE MINIMUM SPEED LIMIT ON ORANGE RIVER BLVD. WILL BE AS POSTED (35 MPH). NO DOWN POSTING OF SPEED LIMIT ON PALM BEACH BLVD. (SR 80) IS PERMITTED.
9. THE CONTRACTOR MUST COORDINATE ALL LANE CLOSURE WITH EMERGENCY SERVICES. IN CASE OF AN EMERGENCY, ACCESS MUST BE PROVIDED TO ALL EMERGENCY PERSONNEL.

REVISIONS				CW3Engineering, Inc. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		TEMPORARY TRAFFIC CONTROL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		68B

UTILITY NOTES:

1. ALL WORK SHALL CONFORM TO LATEST REVISION OF THE LCU DESIGN MANUAL WHICH IS AVAILABLE ON OUR WEB-PAGE VIA THE FOLLOWING LINK: <https://www.leegov.com/utilities/design-manual>
2. THE CONTRACTOR SHALL COMPLY WITH ALL REGULATORY AND PERMITTING AGENCIES' REQUIREMENTS .
3. ANY QUANTITIES SHOWN ON PLANS ARE NOT VERIFIED BY LCU
4. ALL CONSTRUCTION PERFORMED MUST BE DONE BY A CONTRACTOR PROPERLY LICENSED IN THE STATE FLORIDA.
5. A PRE-CONSTRUCTION MEETING IS REQUIRED BEFORE WORK MAY BEGIN. REQUIRED ATTENDEES INCLUDE BUT ARE NOT LITMED TO; ENGINEER OF RECORD OR HIS DESIGNEE, THE UNDERGROUND CONTRACTOR AND THE LCU INSPECTOR ASSIGNED TO THE PROJECT. LCU IS TO BE NOTIFIED A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
6. ONE COPY OF THE LCU APPROVED/ STAMPED CONSTRUCTION PLANS MUST BE MAINTAINED BY THE CONTRACTOR ON SITE AT AL TIMES.
7. ANY AND ALL WORK AND MATERIALS INSTALLED BY THE CONTRACTOR THAT ARE INTENDED FOR OWNERSHIP AND MAINTENANCE BY LCU, WHICH DO NOT CONFORM TO LCU SPECIFICATIONS AND WHICH DO NOT HAVE PRIOR LCU WRITTEN APPROVAL, ARE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
8. ANY WORK PERFORMED ON INFRASTRUCTURE INTENDED FOR OWNERSHIP AND MAINTENANCE BY LCU WITHOUT THE KNOWLEDGE OF LCU IS SUBJECT TO RE-EXCAVATION, REMOVAL AND REPLACEMENT OF SAME TO BE DONE AT THE CONTRACTOR'S EXPENSE.
9. LCU INSPECTION STAFF IS TO BE PRESENT FOR ALL HOT TAPS, PRESSURE TESTS, LIFT STATION START-UPS, AND FOR ANY OTHER NECESSARY INSPECTION. THE CONTRACTOR IS TO PROVIDE A MINIMUM OF TWO (2) WORKING DAYS' NOTICE PRIOR TO SCHEDULING ANY OF THE ABOVE WITH THE EXCEPTION OF THE LIFT STATION START-UP WHICH REQUIRES A MINIMUM OF TWO WEEKS' NOTICE.
10. THE CONTRACTOR IS TO UNCOVER ALL EXISTING LCU UTILITY INFRASTRUCTURE TO VERIFY HORIZONTAL LOCATION, VERTICAL LOCATION, PIPE DIAMETER, AND PIPE MATERIAL PRIOR TO SCHEDULING THE CONNECTION WITH LCU.
11. LOCATIONS, ELEVATIONS, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS, BUT DO NOT PURPORT TO BE THE ABSOLUTELY CORRECT. LCU WILL NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM THESE PLANS.
12. THE CONTRACTOR SHALL PROVIDE A MINIMUM OF AT LEAST TWO (2) WORKING DAYS' NOTICE TO THE INDIVIDUAL UTILITY COMPANIES PRIOR TO CONSTRUCTION.
13. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD AND LCU IMMEDIATELY TO REPORT ANY CONFLICT WITH LCU UTILITIES/ STRUCTURES ARISING DURING CONSTRUCTION OF ANY FACILITIES SHOWN ON THESE DRAWINGS.
14. ALL FRAMES, COVERS, VALVES BOXES, METER BOXES AND MANHOLES SHALL BE ADJUSTED TO FINISHED GRADE UPON COMPLETION OF PAVING OR RELATED CONSTRUCTION. ALL VALVE PADS SHALL BE POURED IN PLACE. NO PRE-CAST VALVE PADS WILL BE ACCEPTED.
15. LCU REQUIRES 30" MINIMUM COVER FOR ALL UNDERGROUND PIPING EXCEPT UNDER PAVEMENT, WHICH REQUIRES 36" MINIMUM COVER. IF LCU REQUIRED COVER CANNOT BE MAINATINED, ALTERNATE METHODS OF CONSTRUCTION OR PIPE PROTECTION MUST BE APPROVED BY LCU AND THE ENGINEER, AT NO ADDITIONAL COST TO THE COUNTY. IF STATE AGENCIES REQUIRE ADDITIONAL COVER, MEETING THE REQUIREMENTS SHALL BE DONE AT NO ADDITIONAL COST TO THE COUNTY.
16. LCU REQUIRES THERE TO BE A MINIMUM OF TEN (10) FEET HORIZONTAL AND 18" VERTICAL SEPARATION BETWEEN POTABLE WATER & SANITARY SEWER MAINS. lcu ALSO REQUIRES MINIMUM OF TEN (10) FEET HORIZONTAL SEPARATION BETWEEN OTHER PUBLIC AND/ OR PRIVATE UTILITIES, STRUCTURE(S), BUILDING(S), WALL(S), FOUNTAIN(S), FENCE(S) AND LCU INFRASTRUCTURE UNLESS SPECIFICALLY APPROVED BY LCU.
17. LCU REQUIRES THERE TO BE A MINIMUM OF FIVE (5) FEET HORIZONTAL SEPARATION AND 18" VERTICAL SEPARATION BETWEEN LCU INFRASTRUCTURE AND DRAINAGE STRUCTURES, MITERED END SECTIONS, INLETS, ETC. LCU ALSO REQUIRES MINIMUM OF FIVE (5) FEET HORIZONTAL SEPARATION BETWEEN LCU INFRASTRUCTURE AND ALL NEW LIGHT POLE FOUNDATIONS.
18. THE TRUNK OF PALM TREES SHALL BE MINIMUM OF FIVE (5) FEET AND THE TRUNK OF SHADE TREES SHALL BE A MINIMUM OF TEN (10) FEET FROM ANY EXISTING OR PROPOSED LCU OWNED AND MAINTAINED PIPE/ INFRASTRUCTURE.
19. AS THE WORK PROGRESSES THE CONTRACTOR SHALL PROVIDE FOR ALL CHANGES AND DEVIATIONS FROM THE LCU STAMPED/ APPROVED CONSTRUCTION PLANS TO BE RECORDED. THE EXACT LOCATION OF ALL CHANGES IN VERTICAL AND HORIZONTAL ALIGNMENT SHALL BE RECORDED WITH X, Y, AND Z COORDINATES WITH RESPECT TO THE NAVD 1988 STATE PLANE FLORIDA WEST COORDINATE SYSTEM, AS WELL AS ANY OTHER RECORD INFORMATION REQUIRED BY THE LCU DESIGN MANUAL.
20. UNLESS OTHERWISE NOTED, ALL UTILITY RELATED CONSTRUCTION, MATERIALS, TESTING AND RECORD KEEPING SHALL CONFORM TO ALL APPLICABLE DEP AND LCU STANDARDS AND SPECIFICATIONS.
21. ALL FITTINGS ARE NOT SHOWN FOR CLARITY, THE UTILITY LINE CONFIGURATIONS ARE SHOWN FOR LOCATION AND SIZE. PROPOSED WATER MAIN AND FORCE MAIN FITTINGS ARE SHOWN AT BENDS IN MAINS. ADDITIONAL FITTINGS MAY BE REQUIRED TO BEND MAINS AS SHOWN. ADDITIONAL FITTINGS SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE MAINS AND NO ADDITIONAL PAYMENT WILL BE MADE FOR THE FITTINGS. CONTRACTOR MAY DEFLECT PROPOSED MAINS TO ROUTE PIPES AS SHOWN, HOWEVER NO DEFLECTIONS SHALL EXCEED ALLOWABLE DEFLECTION LIMITS SET FORTH BY PIPE MANUFACTURER.
22. ALL CLEAN-OUTS AND VALVES WILL HAVE A CONCRETE PAD AND COVER FLUSH WITH PROPOSED GRADE. (SEE DETAILS)
23. REFER TO LEE COUNTY UTILITIES SPECIFICATIONS FOR UTILITY TESTING REQUIREMENTS.
24. SHOP DRAWINGS FOR ALL WATER AND SEWER SYSTEM MATERIALS AND STRUCTURES ARE REQUIRED. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING THE MATERIALS REQUIRED FOR CONSTRUCTION. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
25. IF THE CONTRACTOR CHOOSES TO IMPLEMENT APPURTENANCES OR TECHNIQUES SUCH AS TRENCH BOXES, SHEET PILING, DEWATERING, FLATTEN TRENCH SLOPES, ETC. TO FACILITATE CONSTRUCTION, THESE ITEMS SHALL INCORPORATED INTO THE COST OF THE RELATED AVAILABLE PAY ITEM AND NO ADDITIONAL COMPENSATION WILL BE MADE BY THE OWNER.
26. THE CONTRACTOR IS REQUIRED TO ADJUST ALL EXISTING/PROPOSED VALVE BOXES, MANHOLE RIMS, ETC. AS NECESSARY TO MATCH PROPOSED GRADES. ALL ADJUSTMENTS SHALL BE MADE IN ACCORDANCE WITH LEE CO. UTILITIES AND FDOT STANDARDS AND SPECIFICATIONS.
27. CONTRACTOR TO REPLACE ALL WATER METER BOXES TO BE INSTALLED WITHIN THE R/W. EXISTING WATER METERS TO REMAIN. EXISTING AMI TTL TO BE REMOVED FROM OLD LID AND PLACED ON NEW LID.
28. REMOVAL OF ASBESTOS PIPE SHALL BE ACCORDANCE WITH EPA NESHAPE REGULATIONS & FDEP ASBESTOS REMOVAL PROGRAM (CH 62-257 FAC). ASBESTOS REMOVAL SHALL BE PERFORMED BY A STATE LICENSED ASBESTOS REMOVAL CONTRACTOR.
29. ALL VALVES TO BE TREATED AS A DEADEND, THEREFORE MUST BE RESTRAINED PER STANDARD DETAIL 6.12.



AS-BUILT COLLECTION NOTES:

1. CONTRACTOR SHALL COLLECT POINT DATA AT:
- ALL CONSTRUCTED UTILITY PIPE FITTINGS, APPURTENANCES, CHANGE IN DIRECTION, ETC.
 - ALL CONSTRUCTED UTILITY PIPE BETWEEN FITTINGS, APPURTENANCES, ETC.
 - ALONG CONSTRUCTED UTILITY PIPE AT NO MORE THAN 100 INTERVALS ALONG CONTINUOUS CONSTRUCTED UTILITY PIPE TO REPRESENT HORIZONTAL AND VERTICAL LOCATION.
2. ALL COLLECTED POINT DATA SHALL INCLUDE: UTILITY PIPE SIZE, TYPE, WALL THICKNESS (I.E. DR14, DR18, DR30, CL200, ETC.) & VERTICAL ELEVATION AS WELL AS MANUFACTURER AND DATE INSTALLED.

* ABOVE SAMPLE EXHIBIT IS FOR REFERENCE ONLY, AS-BUILT POINT DATA COLLECTION SHALL COMPLY WITH TECHNICAL SPECS PROVIDED IN THE CONTRACT DOCUMENTS AND UTILITY COMPANY'S REQUIRED SPECIFICATIONS, WHICHEVER IS MORE INCLUSIVE.

DATE: 1/2018	AS-BUILT POINT COLLECTION LOCATION EXHIBIT	SCALE: N.T.S.
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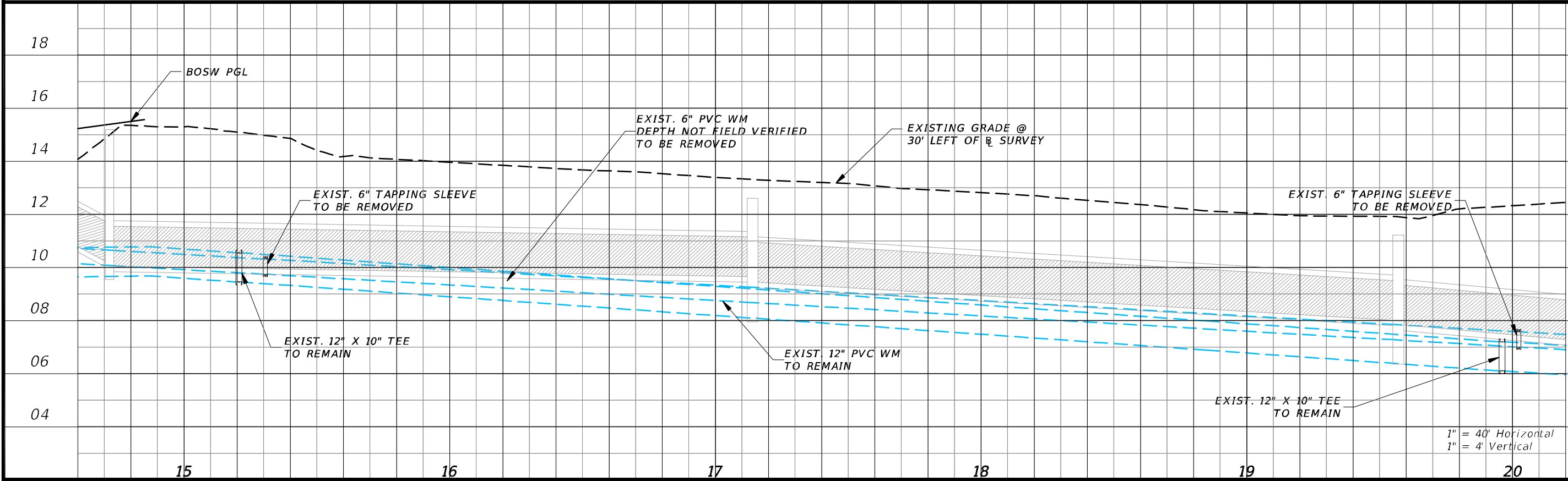
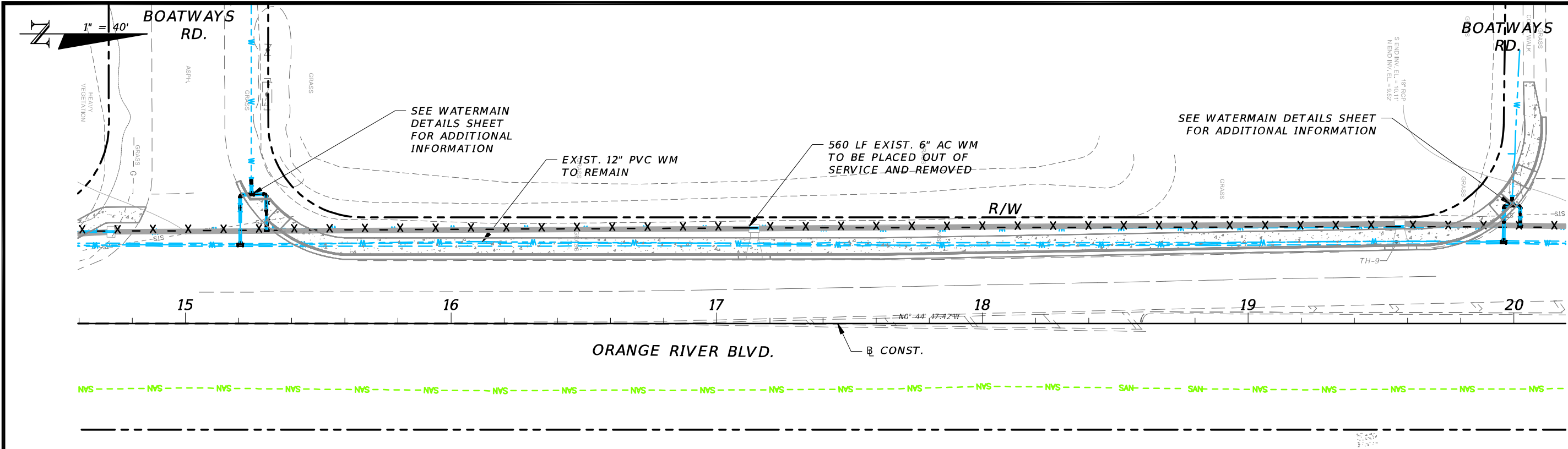
LEGEND:

1. FHA - FIRE HYDRANT ASSEMBLY
2. ARV- AIR RELEASE VALVE
3. BK - BACK
4. AH - AHEAD
5. RT- RIGHT
6. LT - LEFT
7. GV - GATE VALVE
8. MJ - MECHANICAL JOINT
9. RJ - RESTRAINED JOINT
10. 45° V - VERTICAL 45° BEND
11. AC - ABESTOS CONCRETE
12. PVC - PLYVINYL CHLORIDE
13. HDPE - HIGH DENSITY POLYETHYLENE

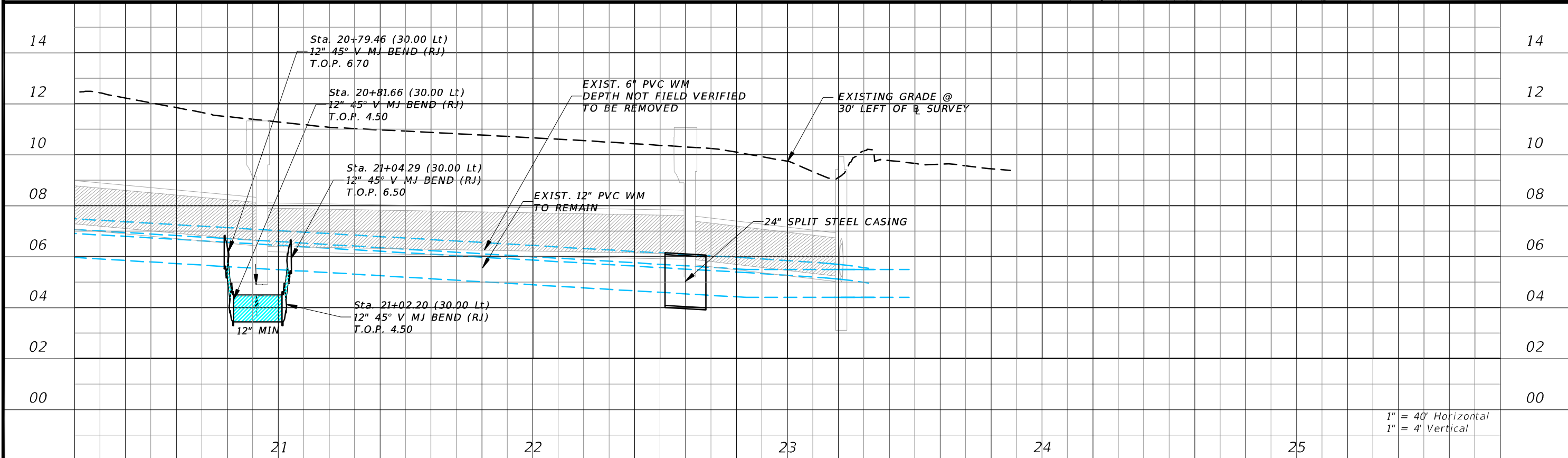
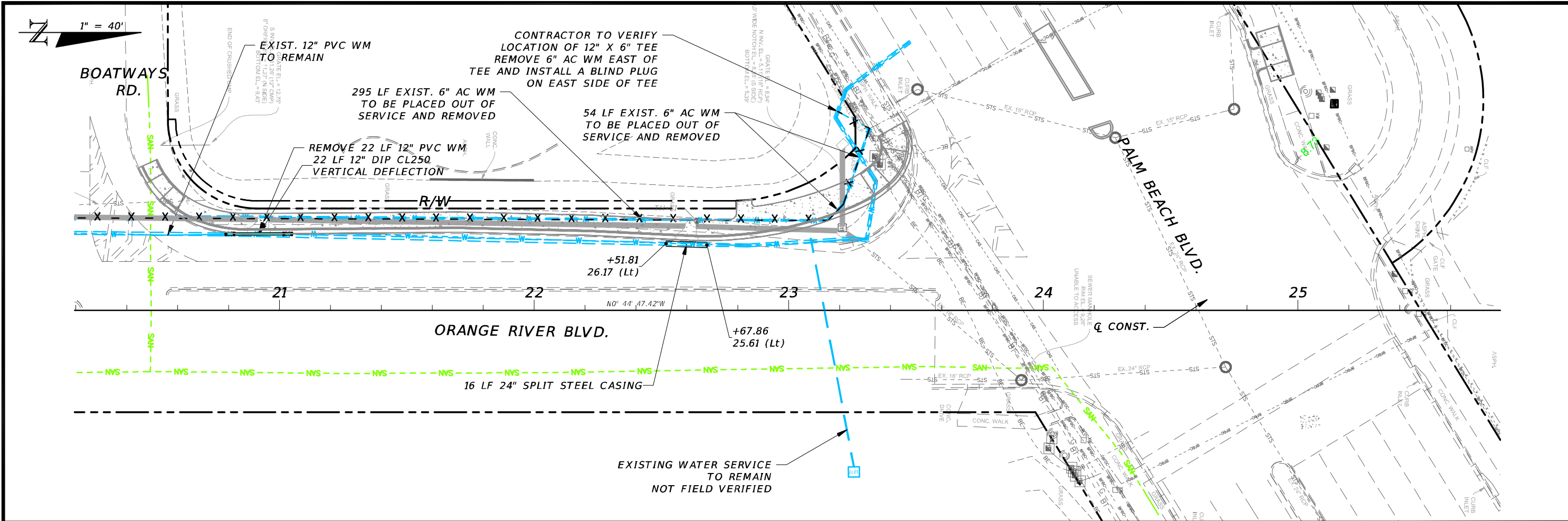
AS-BUILT REQUIREMENTS:

1. AT THE SITE KEEP AND MAINTAIN ONE RECORD COPY OF ALL CONTRACT DOCUMENTS, REFERENCE DOCUMENTS AND ALL TECHNICAL DOCUMENTS SUBMITTED IN GOOD ORDER. AS THE WORK PROGRESSES THE CONTRACTOR IS TO RECORD ON ONE SET OF REPRODUCIBLE DRAWINGS ALL CHANGES AND DEVIATIONS FROM THE ORIGINAL PLANS.
- INSTALLATION/REMOVAL/PLUGGING OF THE UTILITY PIPELINES IS TO INCLUDE AS-BUILT PLAN INFORMATION FURNISHED TO THE ENGINEER. THE AS-BUILT PLANS MUST IDENTIFY AND SATISFY LEE CO. AS-BUILT/RECORD DRAWING REQUIREMENTS WHICH INCLUDE VERTICAL AND HORIZONTAL ALIGNMENT, TYPE OF MATERIAL, LOCATIONS OF MATERIAL CHANGES FOR ALL WATER, RECLAIMED AND SEWER LINES, CASINGS, VALVES, TEES, BENDS, REDUCERS, HYDRANTS, CASINGS, SERVICE SIZE CONNECTIONS, GROUTING LIMITS, METER BOXES AND/OR PAD, AND OTHER PERTINENT STRUCTURES. PIPELINE RUNS IN EXCESS OF 100 FEET, WITHOUT FITTINGS ARE TO INCLUDE VERTICAL ALIGNMENT INFORMATION AT 100 FEET INTERVALS. SAID ALIGNMENT IS TO BE TIED TO STATE PLANE COORDINATES, AND IS TO BE CERTIFIED BY A PROFESSIONAL LAND SURVEYOR, LICENSED IN THE STATE OF FLORIDA. ALL POINTS (X,Y,Z) PROVIDED ARE TO INDICATE THE SIZE, ELEVATION AND TYPE AND MATERIAL (INCLUDING CLASS OR DR) OF ITEM BEING IDENTIFIED. THE CONTRACTOR IS TO CONNECT THE AS-BUILT POINTS AND ENSURE THE ACCURACY OF THE DATA PRIOR TO PROVIDING THE DATA/DRAWINGS TO THE ENGINEER. CONTRACTOR SHALL PERFORM A QUALITY CONTROL REVIEW OF ALL INFORMATION PROVIDED TO THE ENGINEER. ENGINEER WILL RETURN ALL DRAWINGS AND DATA TO THE CONTRACTOR IF ANY INACCURACIES ARE FOUND AND/OR CORRECTIONS ARE NEEDED.
- AS-BUILTS WILL NOT BE DETERMINED ACCEPTABLE UNTIL LEE CO. ACCEPTS THE RECORD DRAWINGS. PAYMENT FOR AS-BUILTS WILL NOT BE MADE UNTIL LEE CO. ACCEPTANCE OCCURS. PAYMENT FOR THE AS-BUILTS WILL BE REDUCED IN ACCORDANCE WITH TIME SPENT BY THE ENGINEER TO PROVIDED A QA/QC ON THE CONTRACTORS INFORMATION BEYOND THE INITIAL RECEIPT & REVIEW OF INFORMATION/DATA.
- PROVIDE GEO-REFERENCED OR STATION/OFFSET REFERENCED DIGITAL PICTURES (NO MORE THAN TWO (2) PER LOCATION) FOR ALL TIE-INS AND FITTINGS PRIOR TO BACKFILL. SUBMIT TO THE ENGINEER ALL AS-BUILT INFORMATION OF CONSTRUCTED WORK ON NO MORE THAN A BI-WEEKLY BASIS. IF DATA IS MISSING AND/OR INACCURATE, RE-EXCAVATE SUBJECT AREA TO OBTAIN REQUIRED INFORMATION AND RESTORE AREA AT NO ADDITIONAL EXPENSE TO LEE CO. AND/OR FDOT. LIMITS OF RESTORATION WILL BE SUBJECT TO LEE CO. AND FDOT APPROVALS.

REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		LEE COUNTY UTILITIES NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		68C
					LEE COUNTY	20-0016A		

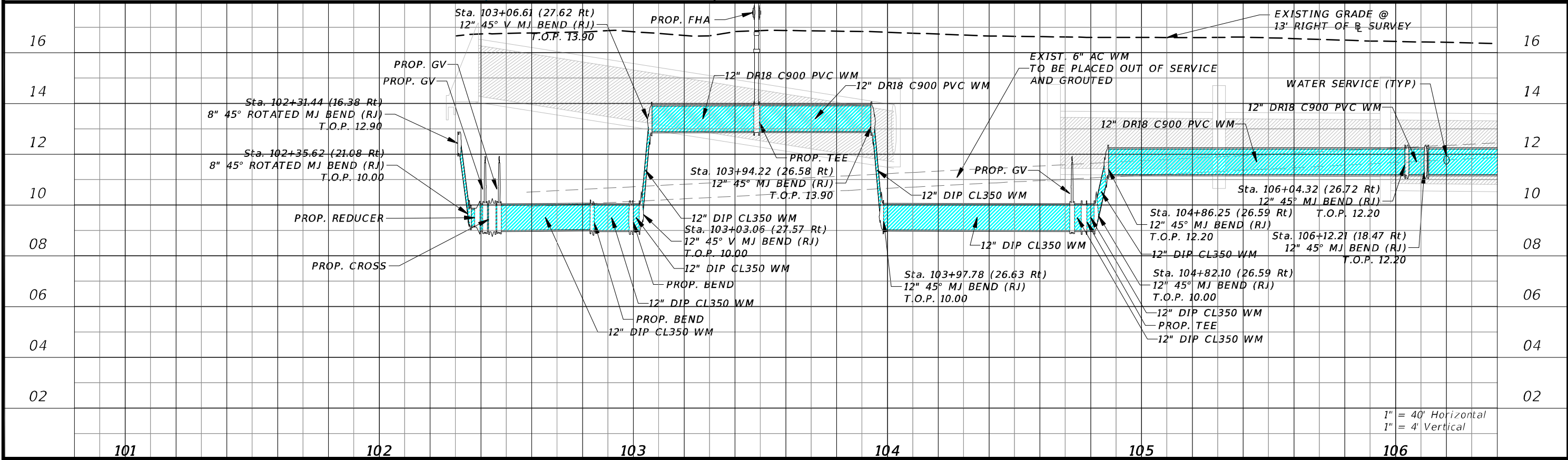
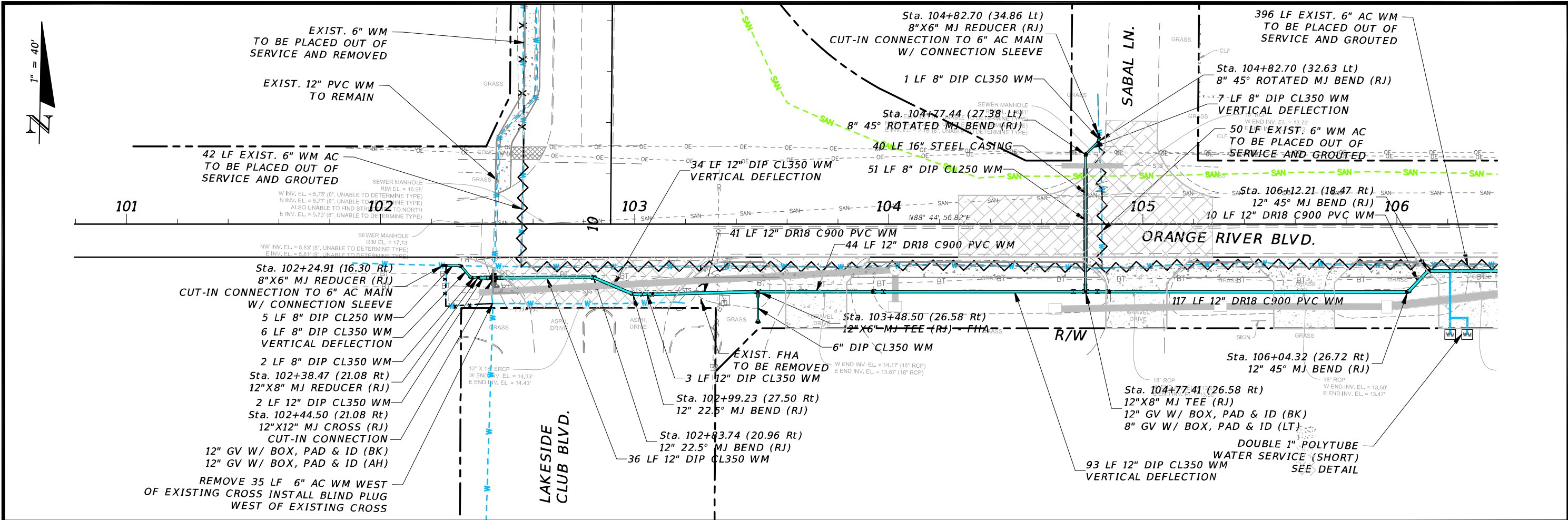


REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		UTILITY PLAN AND PROFILE	SHEET NO. 70
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		

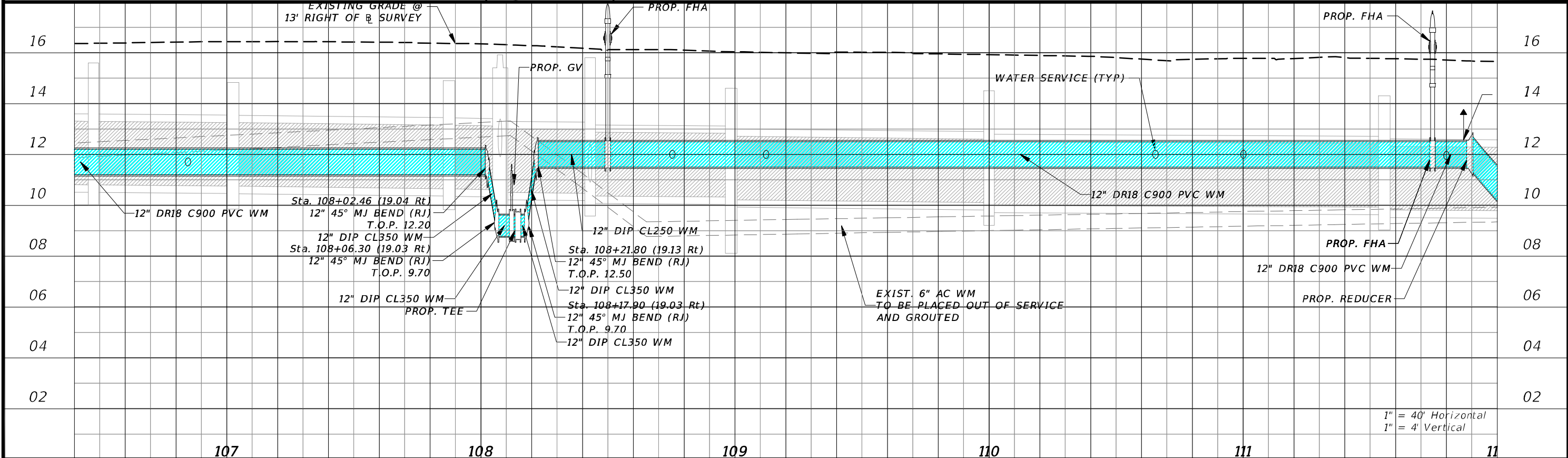
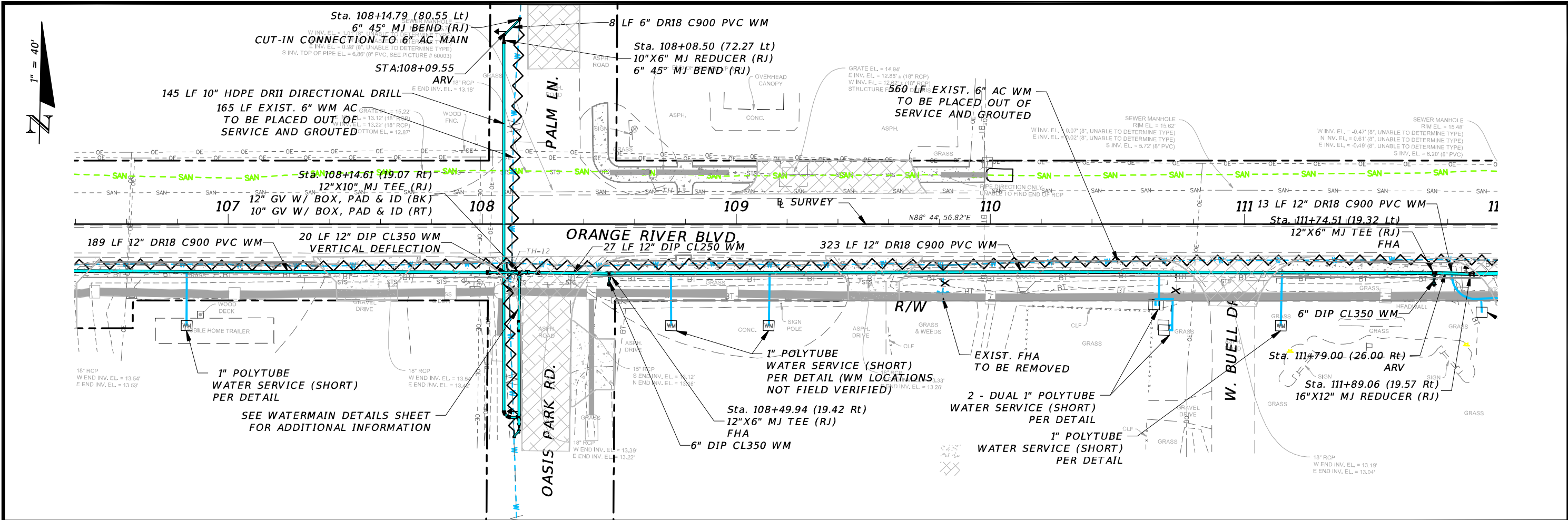


REVISIONS				CW3 Engineering, Inc. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		UTILITY PLAN AND PROFILE	SHEET NO. 71
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		

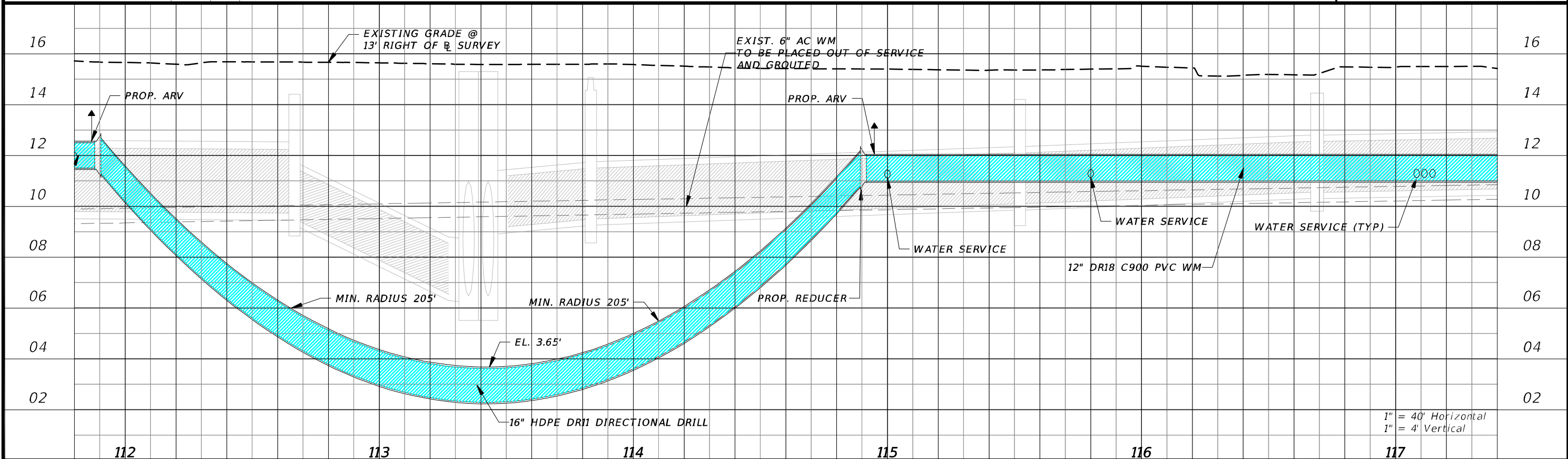
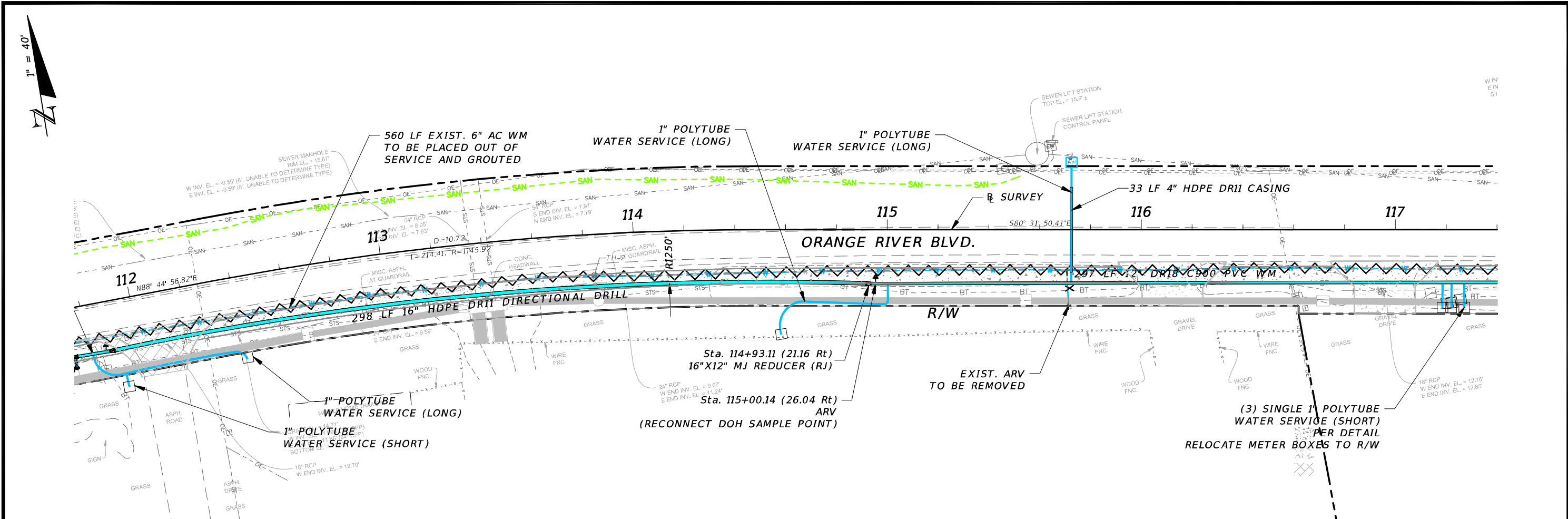
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



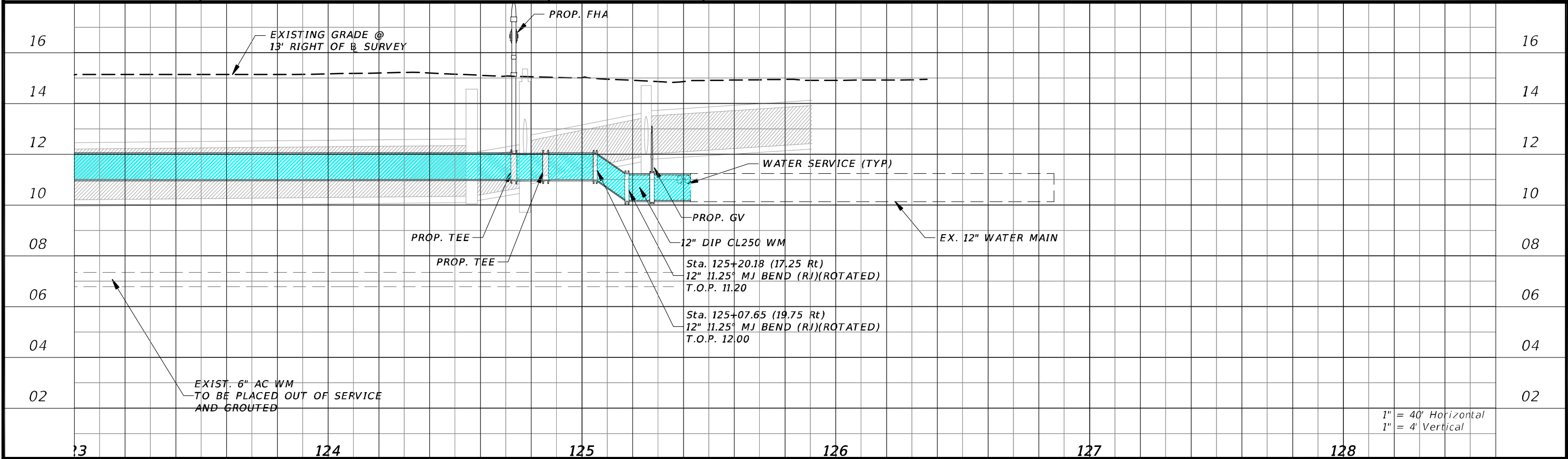
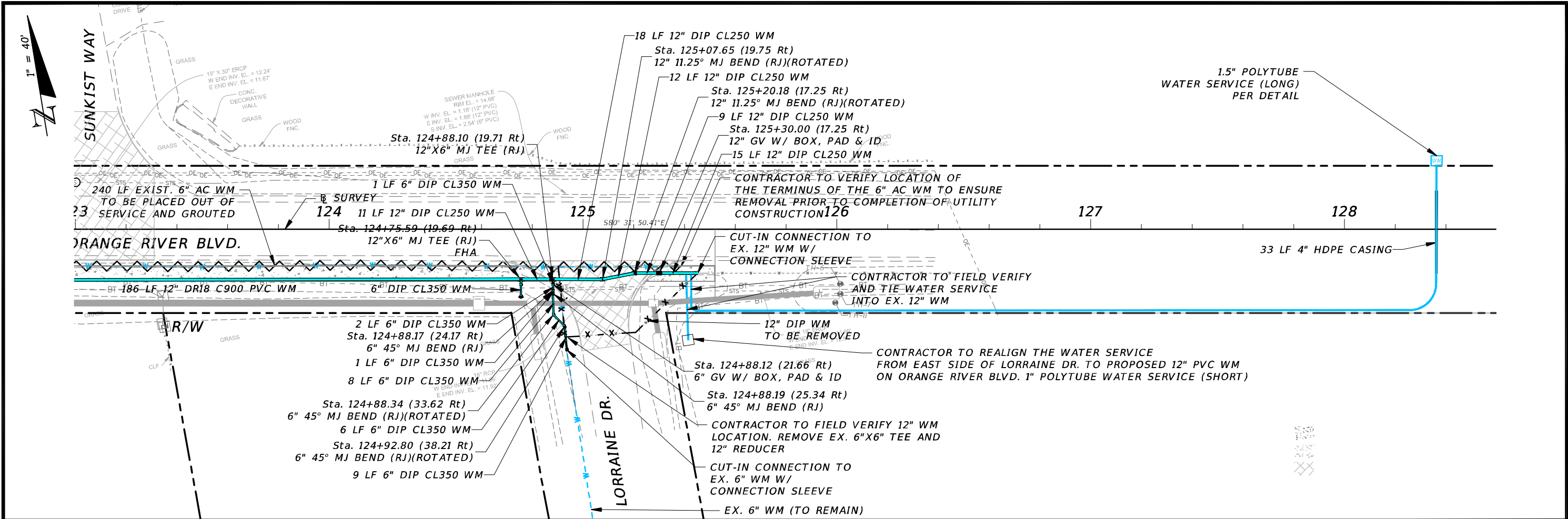
REVISIONS				CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		UTILITY PLAN AND PROFILE	SHEET NO. 72
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		



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DATE	DESCRIPTION	DATE	DESCRIPTION					



REVISIONS				CW3 Engineering, Inc. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB	UTILITY PLAN AND PROFILE		SHEET NO. 74
DATE	DESCRIPTION	DATE	DESCRIPTION					



REVISIONS				CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		UTILITY PLAN AND PROFILE	SHEET NO. 76
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		

16

14

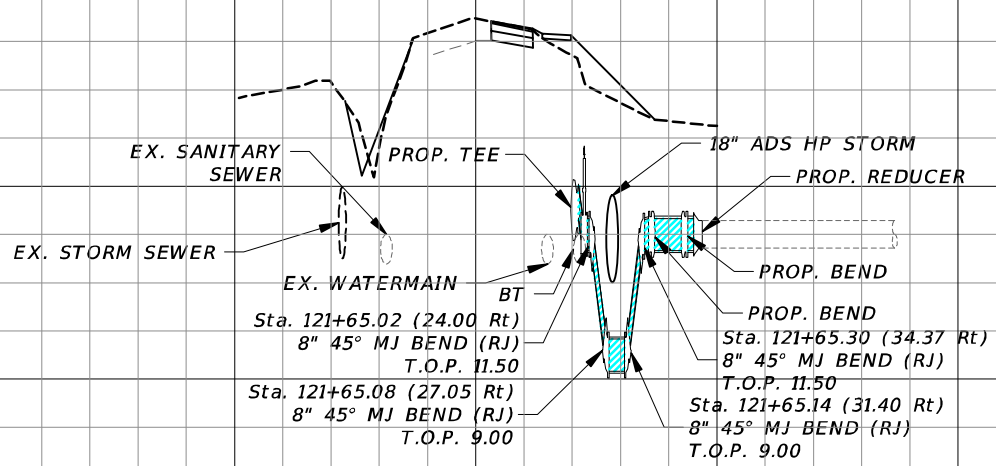
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16

14

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121+50.00

16

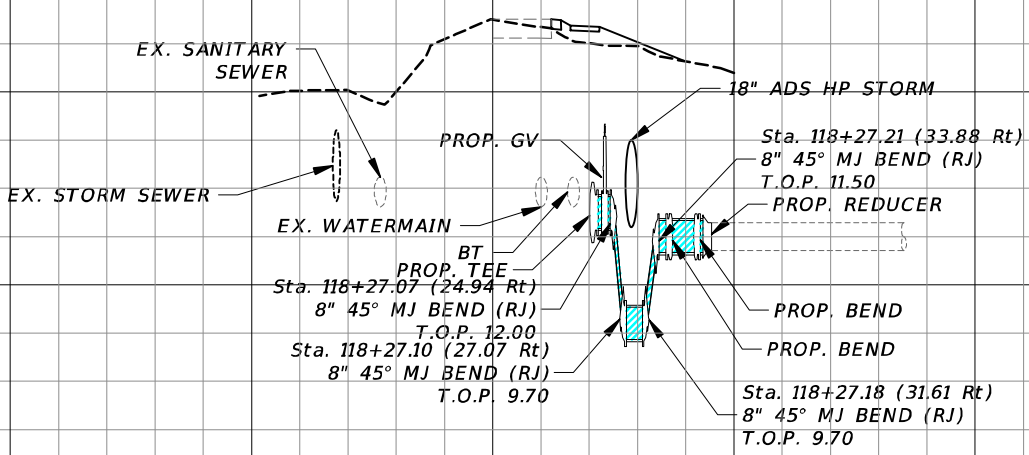
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1" = 40' Horizontal
1" = 4' Vertical

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION



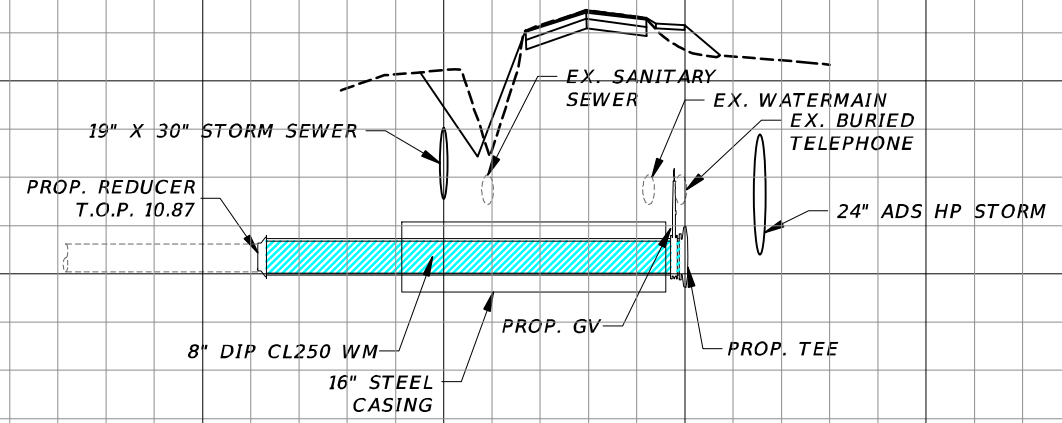
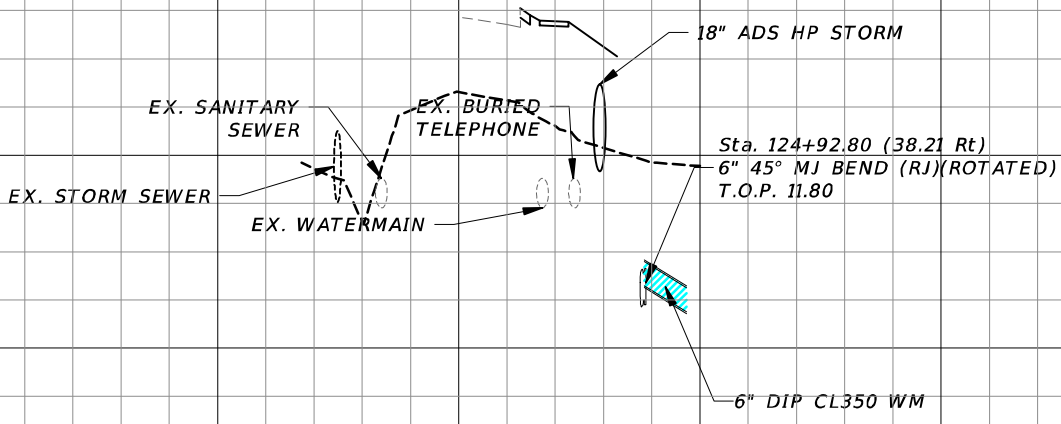
CW3 ENGINEERING, INC.
5783 BAYSHORE RD., SUITE 113
NORTH FT. MYERS, FL 33917
PH. 239-205-6473
WEBSITE: WWW.CW-3.COM
CLAIR WRIGHT, III P.E. No. 64089

ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB	
COUNTY	PROJECT #
LEE COUNTY	20-0016A

UTILITY CROSSING DETAILS

SHEET NO.
78

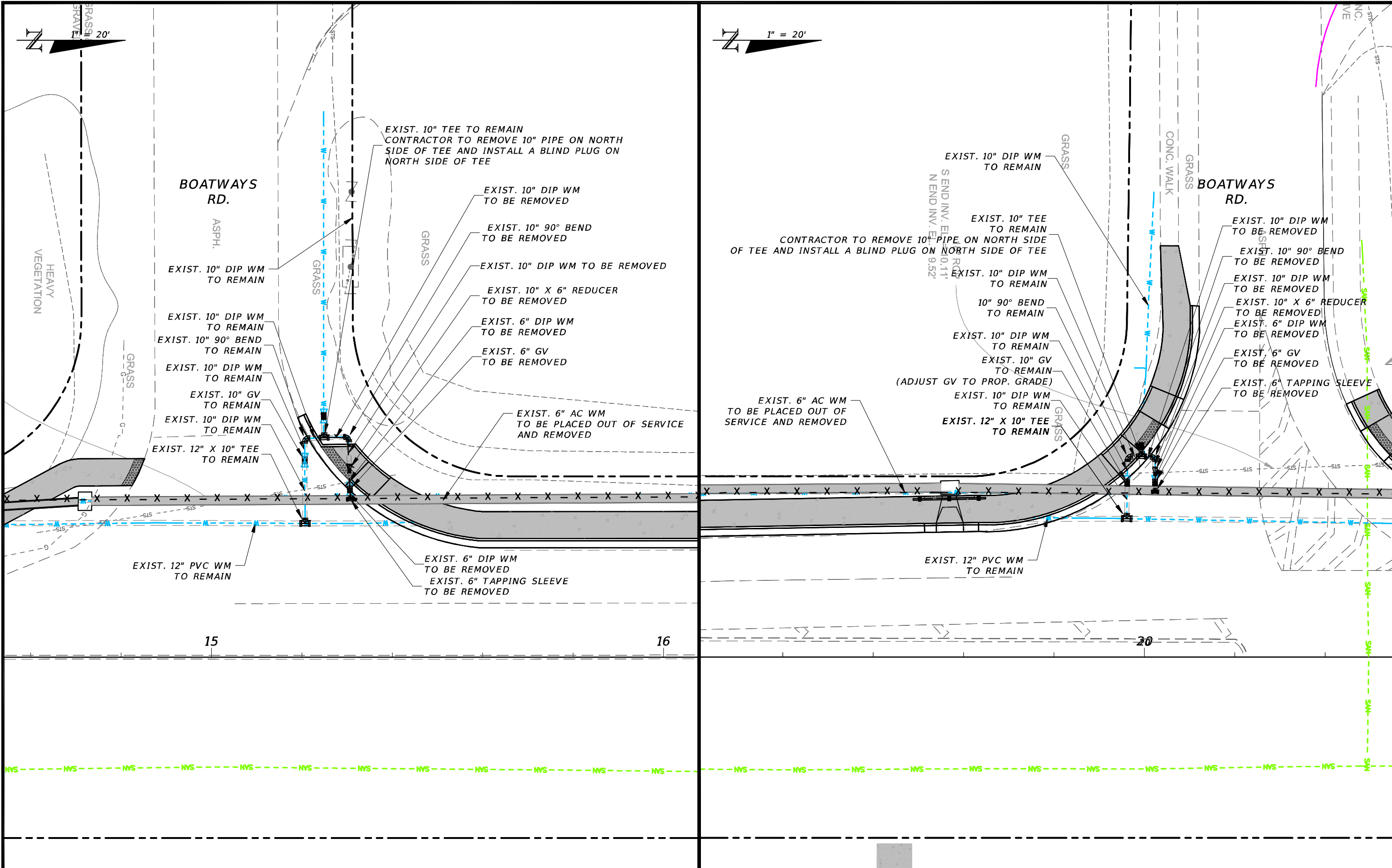
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1" = 4' Vertical

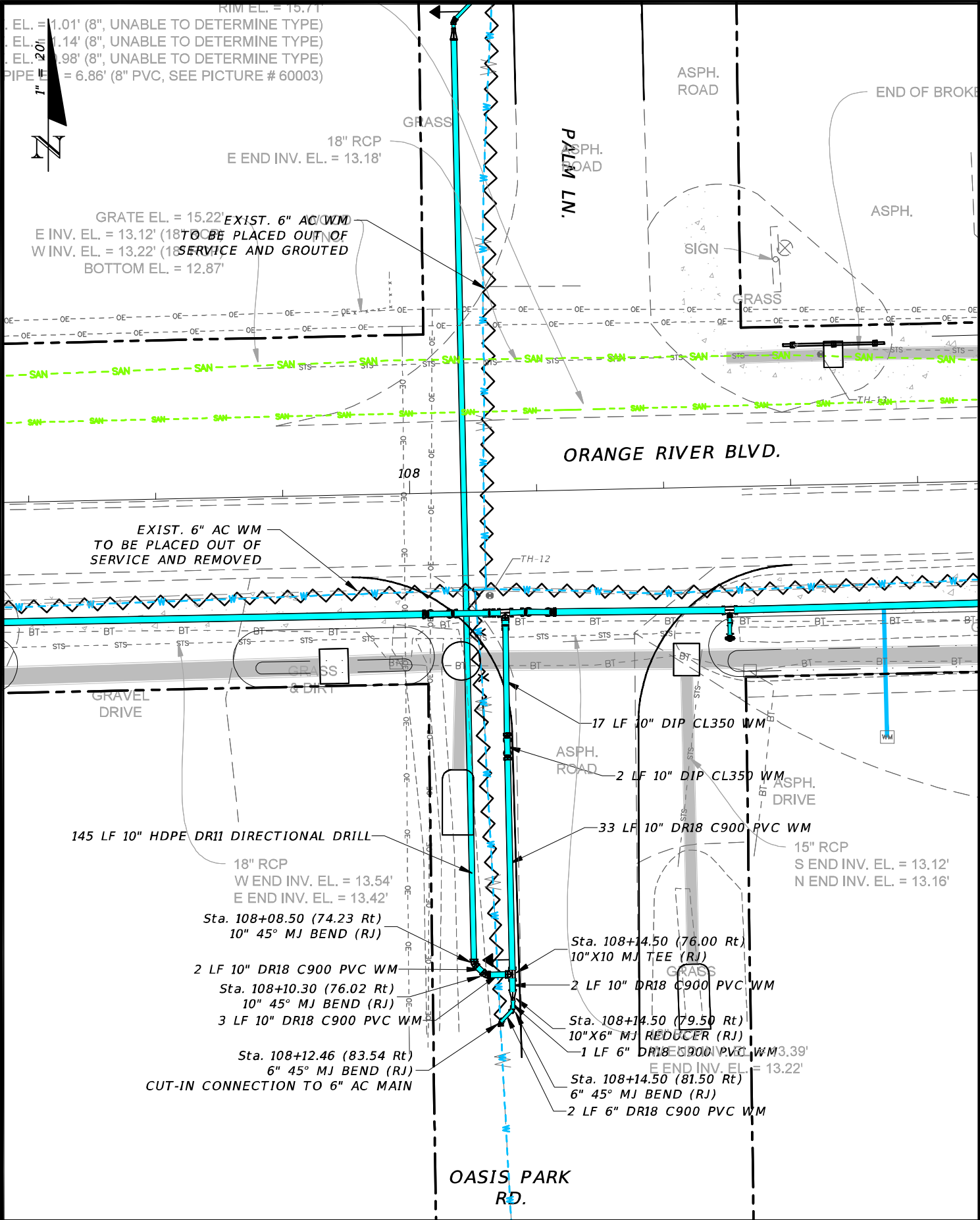
REVISIONS				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		UTILITY CROSSING DETAILS	SHEET NO. 79
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		

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DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		

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REVISIONS				CW3 Engineering, Inc. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		WATERMAIN DETAILS		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #			
					LEE COUNTY	20-0016A			81

TEST HOLE DATA SUMMARY

PROJECT NO: CR13800700
CLIENT: CW3 ENGINEERING INC.
PROJECT: 211109 - ORANGE RVR BLVD S/W
SUE CREW: RP, AA, TA BR
TRUCK NO: 55589
CITY,COUNTY: FORT MYERS, LEE
LOCATION/INTERSECTION: ORANGE RIVER BLVD



5670 Zip Drive
Fort Myers, Florida 33905
TEL:239-277-0722
www.T2ue.com

SURFACE TYPE				REFERENCE MARKER (RM)				UTILITY TYPE										UTILITY MATERIAL					
ASPHALT	A	OTHER	O	CUT X	X	ROD & CAP	RC	BURIED ELECTRIC	BE	EXPLORATORY	EXP	GAS SERVICE	GS	STREET LIGHT	SL	WATER MAIN	WM	ASBESTOS	AC	PLASTIC (PVC, PE, HDPE)	PL	OTHER	O
CONCRETE	C	ASPHALT/CONCRETE	AC	LATHE	L	SLEEVE	S	BURIED TELECOM	BT	FIBER OPTIC CABLE	FOC	OTHER	O	TRAFFIC SIGNAL	TS	RECLAIMED WATER	RW	CLAY	CL	METALLIC (IRON,STEEL,COATED)	MET	UNKNOWN	UNK
INTERLOCK BRICK	I			NAIL & DISK	ND	WOODEN STAKE	W	CABLE TV	CATV	FORCE MAIN	FM	SANITARY SEWER	SAN	UNKNOWN	UNK	FUEL LINE	FL	CORRUGATED METAL PIPE	CMP	CONCRETE	CONC	WOOD	WD
NATURAL GROUND	NG			OTHER	O	PK NAIL	PK	COMBINED SEWER	COMB	GAS MAIN/PIPELINE	GM	STORM SEWER	STM	WATER SERVICE	WS	PIPELINE	PL	DIRECT BURIED CABLE	DBC	COPPER	CU	FIBERGLASS	FIBG
TH NO	TH DATE	UTILITY TYPE	UTILITY MATERIAL	UTILITY DIRECTION	UTILITY WIDTH (FIELD)	APPARENT UTILITY OWNER	CROSS SECTION	RM NORTHING	RM EASTING	RM ELEVATION	RM LOCATION	RM MARKED BY	RM STATION	RM OFFSET	DEPTH RM TO TOP OF UTILITY	DEPTH RM TO BTM OF UTILITY	ELEV. TOP OF UTILITY	ELEV. BOTTOM OF UTILITY	SURFACE TYPE	REMARKS			
TH-1	9/2/2022	TEL	PL	EAST - WEST	4.00"	FORT MYERS		853556.53	722912.63	16.74'	EAST EDGE	RC	-	-	3.30'	-	13.44'	-	NG				
TH-1A	9/2/2022	WM	PL	NORTH - SOUTH	12.00"	FORT MYERS		853555.33	722913.77	16.66'	NORTH EDGE	RC	-	-	6.54'	-	10.12'	-	NG				
TH-2	9/2/2022	WM	MET	EAST - WEST	6.00"	FORT MYERS		853579.27	724049.29	15.38'	EAST EDGE	RC	-	-	3.05'	-	12.33'	-	NG				
TH-3	9/2/2022	WM	AC	EAST - WEST	6.00"	FORT MYERS		853477.91	724670.15	14.47'	EAST EDGE	RC	-	-	3.09'	-	11.38'	-	NG				
TH-4	9/2/2022	TEL	DBC	EAST - WEST	3.00"	FORT MYERS		853472.49	724669.33	13.31'	EAST EDGE	RC	-	-	2.38'	-	10.93'	-	NG				
TH-5	9/2/2022	WM	PL	EAST - WEST	6.00"	FORT MYERS		853473.69	724899.43	13.09'	EAST EDGE	RC	-	-	2.19'	-	10.90'	-	NG				
TH-5A	9/2/2022	TEL	DBC	EAST - WEST	-	FORT MYERS		853473.69	724899.43	13.09'	EAST EDGE	RC	-	-	5.44'	-	7.65'	-	NG	POSSIBLE 1"			
TH-6	9/2/2022	TEL	DBC	EAST - WEST	3.00"	FORT MYERS		853375.44	725248.63	13.32'	EAST EDGE	RC	-	-	2.77'	-	10.55'	-	NG				
TH-7	9/2/2022	TEL	DBC	EAST - WEST	1.50"	FORT MYERS		853371.57	725248.03	12.80'	EAST EDGE	RC	-	-	2.45'	-	10.35'	-	NG				
TH-8	9/2/2022	TEL	DBC	EAST - WEST	-	FORT MYERS		853368.44	725245.51	13.32'	EAST EDGE	RC	-	-	2.08'	-	11.24'	-	NG	TWO CONDUITS SIZE 1.5" AND 1"			
TH-9	9/2/2022	WM	PL	NORTH - SOUTH	12.00"	FORT MYERS		854536.40	722915.50	11.80'	NORTH EDGE	RC	-	-	4.60'	-	7.20'	-	NG				
TH-10	9/2/2022	WM	PL	NORTH - SOUTH	12.00"	FORT MYERS		854035.21	722922.84	13.85'	NORTH EDGE	RC	-	-	3.07'	-	10.78'	-	NG				

REVIEWED BY: JH ON 9/13/2022
CHECKED BY: XX ON

REVISION DATE:
PAGE 1 OF 2

REVISIONS				CW3 Engineering, Inc.	CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		SUE SHEET	SHEET NO.		
DATE	DESCRIPTION		DATE			DESCRIPTION			COUNTY	PROJECT #	82
								LEE COUNTY	20-0016A		

TEST HOLE DATA SUMMARY

PROJECT NO: CR13800700
CLIENT: CW3 ENGINEERING INC.
PROJECT: 211109 - ORANGE RVR BLVD S/W
SUE CREW: RP, AA, TA BR
TRUCK NO: 55589
CITY,COUNTY: FORT MYERS, LEE
LOCATION/INTERSECT ON: ORANGE RIVER BLVD



5670 Zip Drive
Fort Myers, Florida 33905
TEL:239-277-0722
www.T2ue.com

SURFACE TYPE				REFERENCE MARKER (RM)				UTILITY TYPE										UTILITY MATERIAL										
ASPHALT		A	OTHER	O	CUT X	X	ROD & CAP	RC	BURIED ELECTRIC		BE	EXPLORATORY	EXP	GAS SERVICE		GS	STREET LIGHT	SL	WATER MAIN		WM	ASBESTOS	AC	PLASTIC (PVC, PE, HDPE)		PL	OTHER	O
TH-11	9/9/2022		WM	MET	NORTH - SOUTH	12.00"	FORT MYERS	○	854844.4'	722906.63		9.82'	NORTH EDGE	RC		-		-	4.33'		-	5.49'	-		NG			
TH-12	9/9/2022		WM	MET	NORTH - SOUTH	-	FORT MYERS	○	853576.14	723480.14		16.15'	NORTH EDGE	RC		-		-	3.11'		-	13.04'	-		AC	UNKNOWN CROSS		
TH-13	9/9/2022		FM	MET	EAST - WEST	12.00"	FORT MYERS	○	853614.1'	723532.25		14.05'	WEST EDGE	RC		-		-	4.47'		-	9.58'	-		NG			

REMARKS:

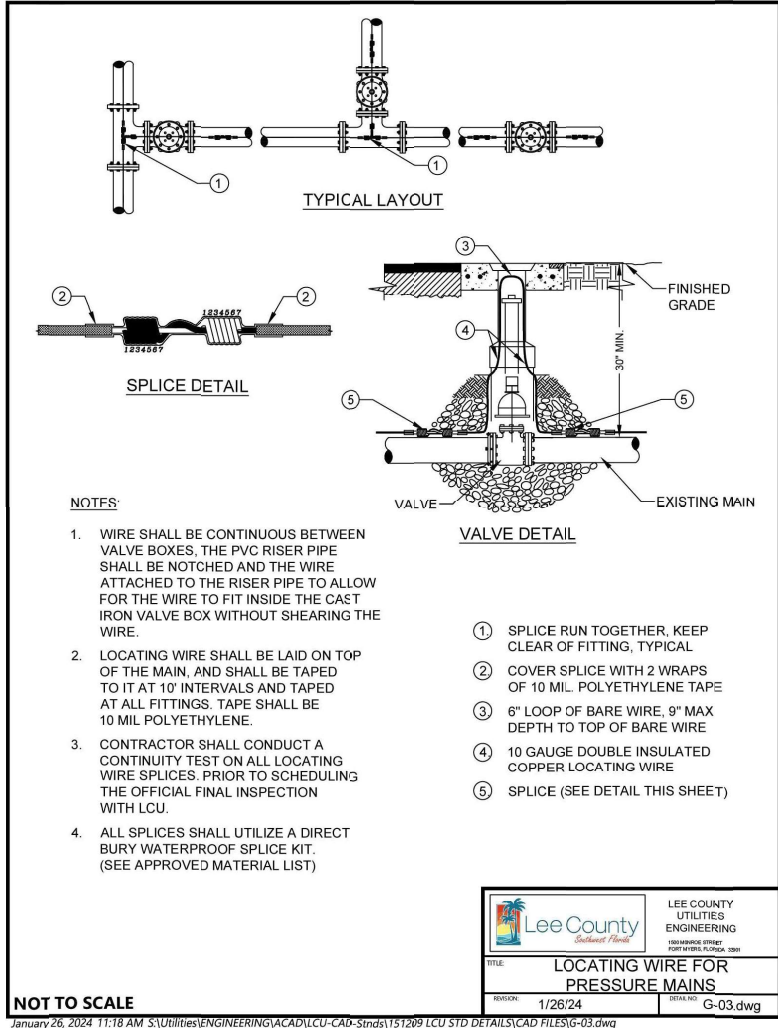
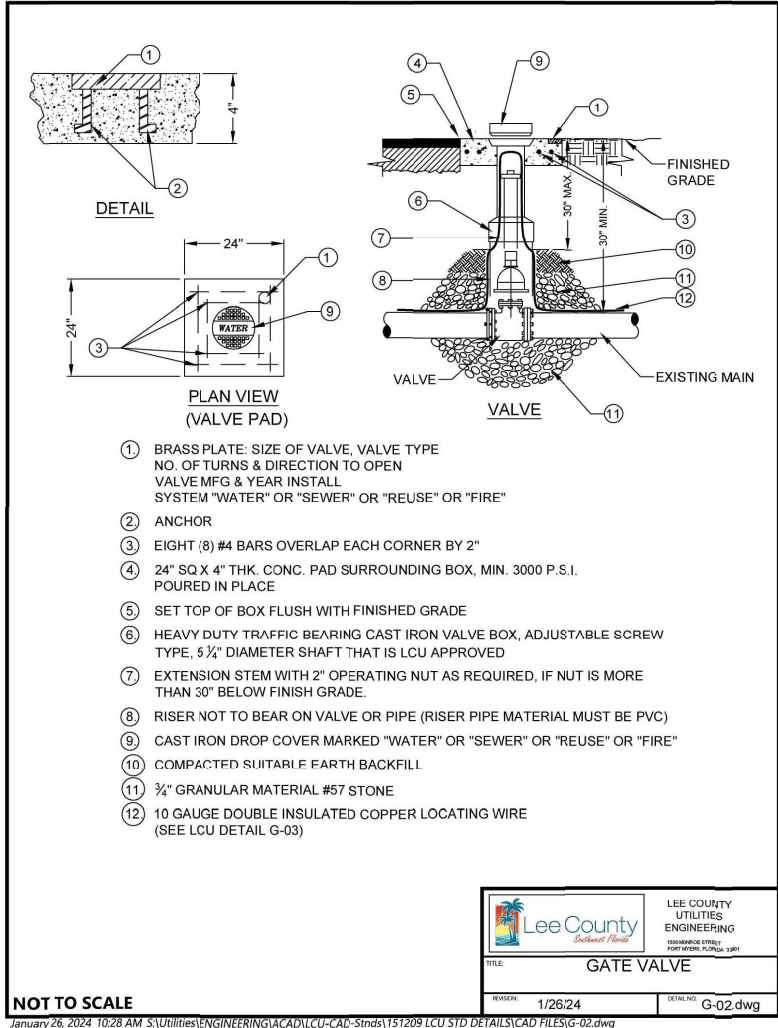
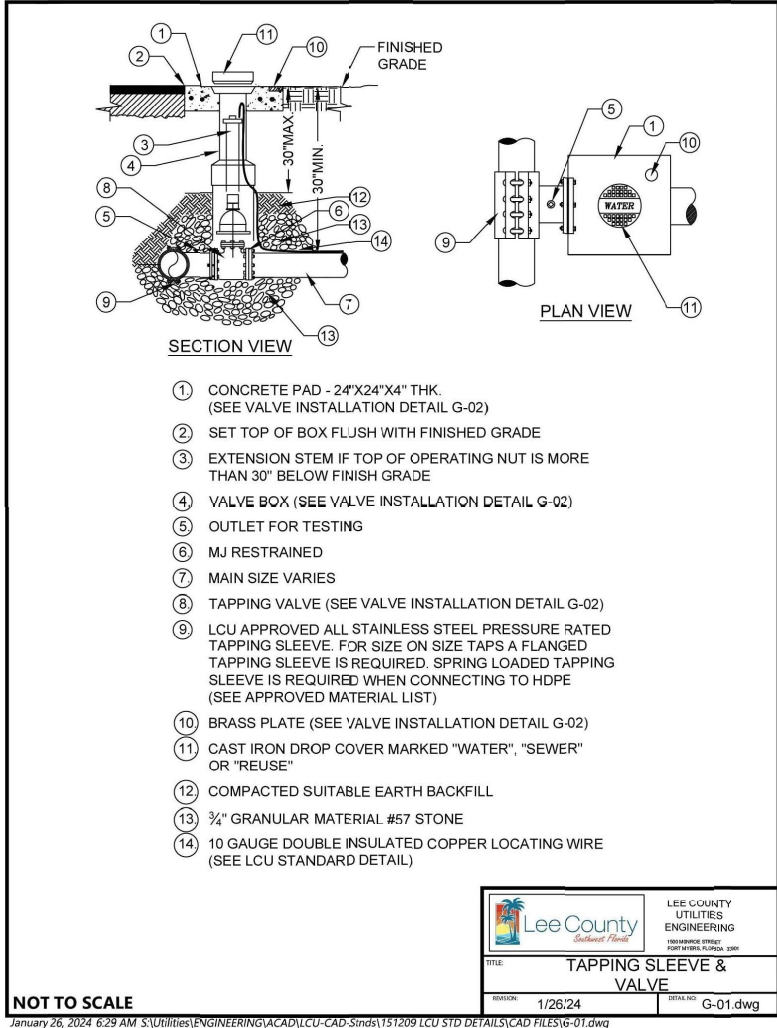
REVISION NOTES:

REVIEWED BY: JH ON 9/13/2022
CHECKED BY: XX ON

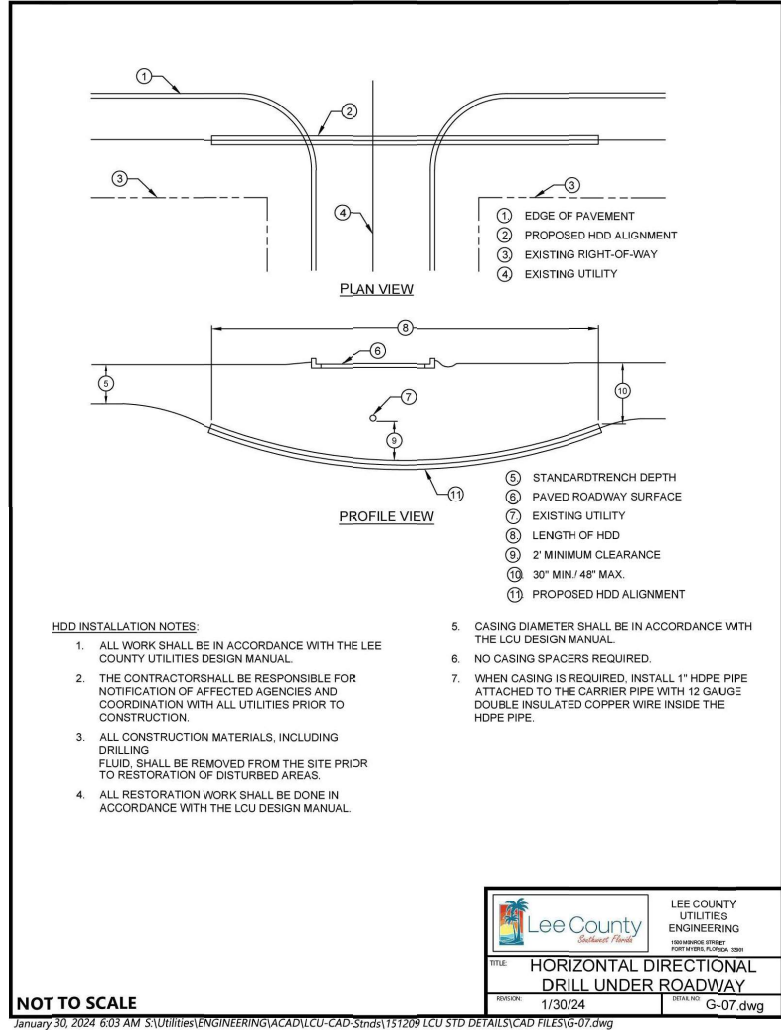
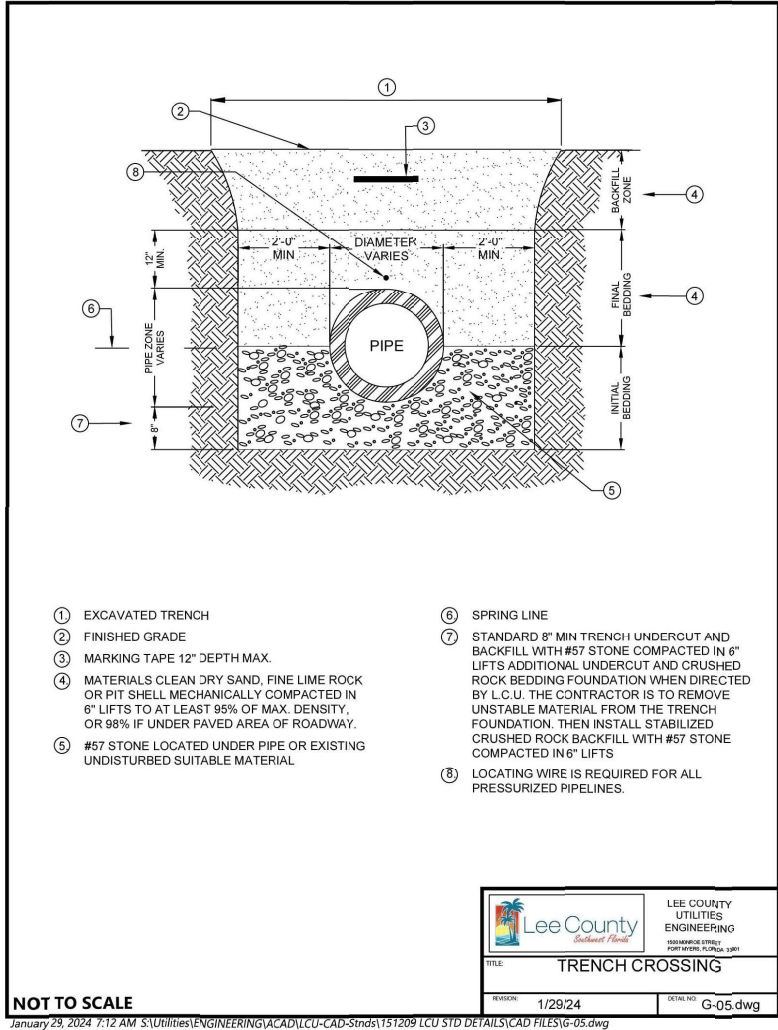
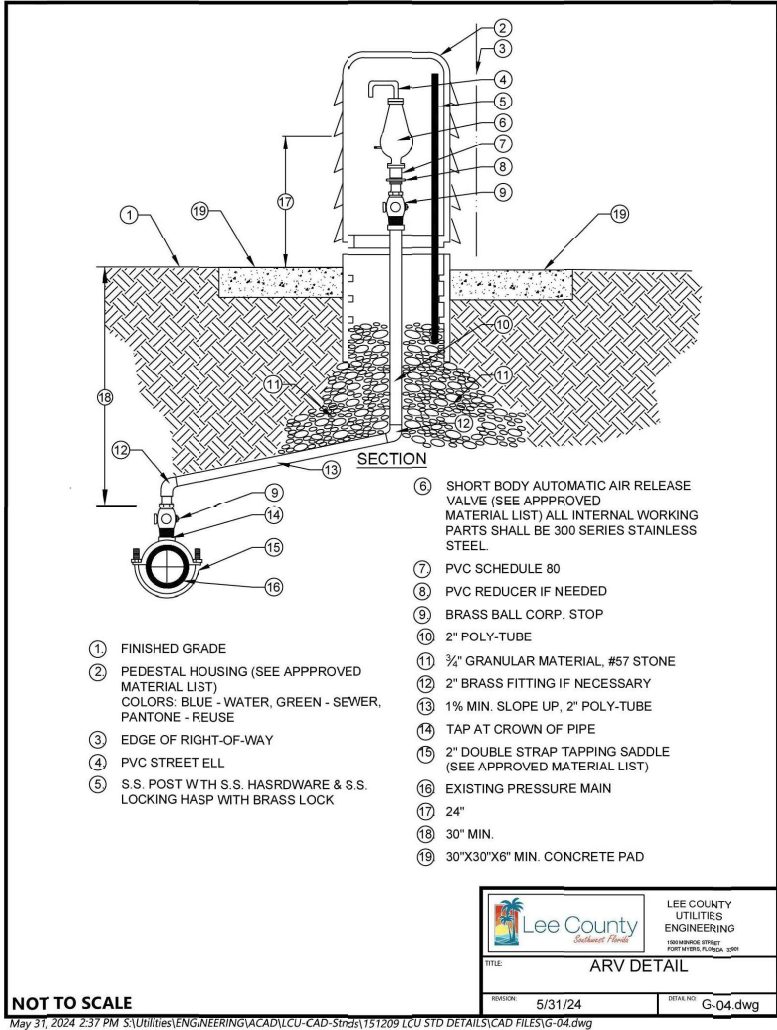
REVISION DATE:
PAGE 2 OF 2

R E V I S I O N S				 CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		SUE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		83
					LEE COUNTY	20-0016A		

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REVISIONS				CW3 Engineering, Inc.	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB	LEE COUNTY UTILITIES STANDARD DETAILS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
					COUNTY	PROJECT #	84
				5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	LEE COUNTY	20-0016A	



REVISIONS				CW3 Engineering, Inc.	CW3 ENGINEERING, INC. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB COUNTY PROJECT # LEE COUNTY 20-0016A	LEE COUNTY UTILITIES STANDARD DETAILS	SHEET NO.
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								85

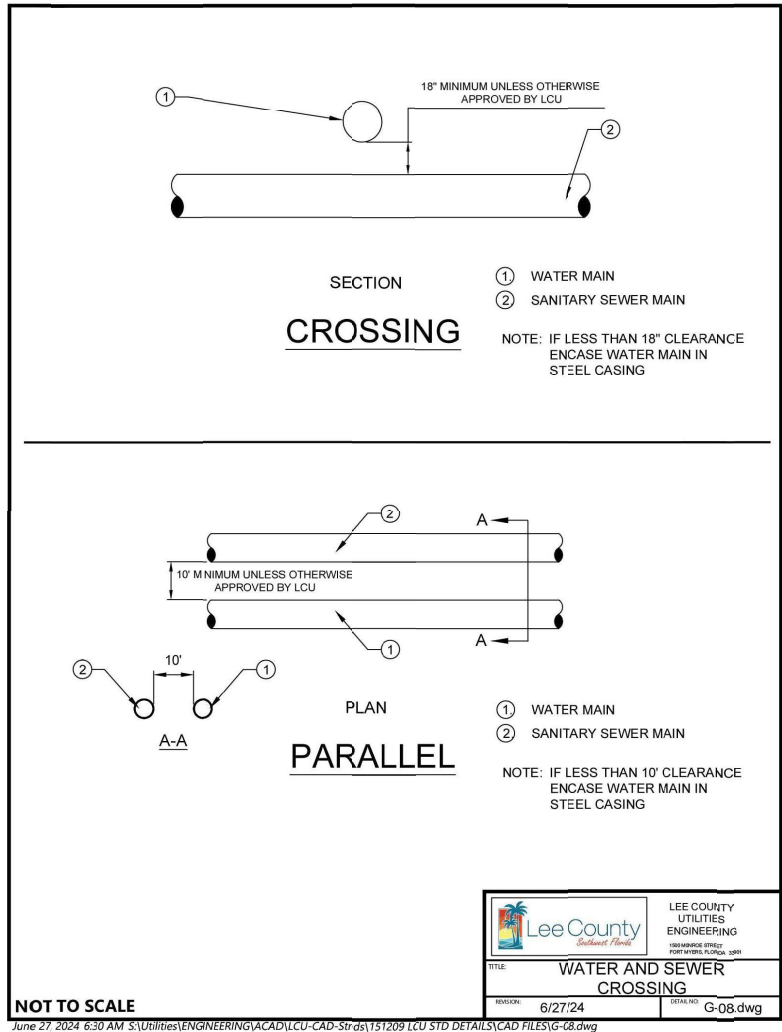


Diagram showing the RESTRAINT TABLE for various pipe sizes and deflections.

PIPE SIZE	HORIZONTAL DEFLECTIONS				VERTICAL DEFLECTIONS (SEE NOTE 2)		DEAD ENDS/ VALVES Lr (FT.)	REDUCERS (SEE NOTES)			TEES			
	90° BENDS Lr (FT.)	45° BENDS Lr (FT.)	22.5° BENDS Lr (FT.)	11.25° BENDS Lr (FT.)	45° BENDS (SEE NOTE 2)			SIZE	L(A) (FT.)	L(B) (FT.)	RUN SIZE	BRANCH SIZE	Lm (FT.)	Lbr (FT.)
					Lhs (FT.)	Lls (FT.)								
4"	27	11	5	3	31	8	60	6 x 4	64	43	4"	4"	10	11
6"	37	15	7	4	43	11	84	8 x 6	80	46	6"	6"	10	34
8"	48	20	10	5	57	15	110	8 x 4	153	79	4"	4" OR LESS	10	FITTING ONLY
10"	57	24	11	6	68	17	131	10 x 8	55	44	8"	8"	10	59
12"	57	24	11	6	68	19	131	10 x 6	133	81	4"	6"	10	17
16"	58	24	12	6	55	19	106	12 x 10	46	38	6"	6"	10	FITTING ONLY
20"	70	29	14	7	67	23	129	12 x 8	104	69	10"	10"	10	80
24"	81	33	16	8	78	27	150	16 x 12	61	45	8"	8"	10	45
								10 x 10	103	63	6"	6" OR LESS	10	FITTING ONLY
								20 x 16	58	46	12"	12"	10	79
								20 X 12	139	81	10"	10"	10	49
								24 x 20	55	45	8"	8"	10	15
								24 x 16	128	82	6"	6" OR LESS	10	FITTING ONLY
											16"	16"	10	73
											12"	12"	10	38
											10"	10"	10	16
											8"	8" OR LESS	10	FITTING ONLY
											20"	20"	10	95
											16"	16"	10	63
											12"	12"	10	24
											10"	10" OR LESS	10	FITTING ONLY
											24"	24"	10	118
											20"	20"	10	87
											16"	16"	10	53
											12"	12"	10	10
											10"	10" OR LESS	10	FITTING ONLY

NOTES:

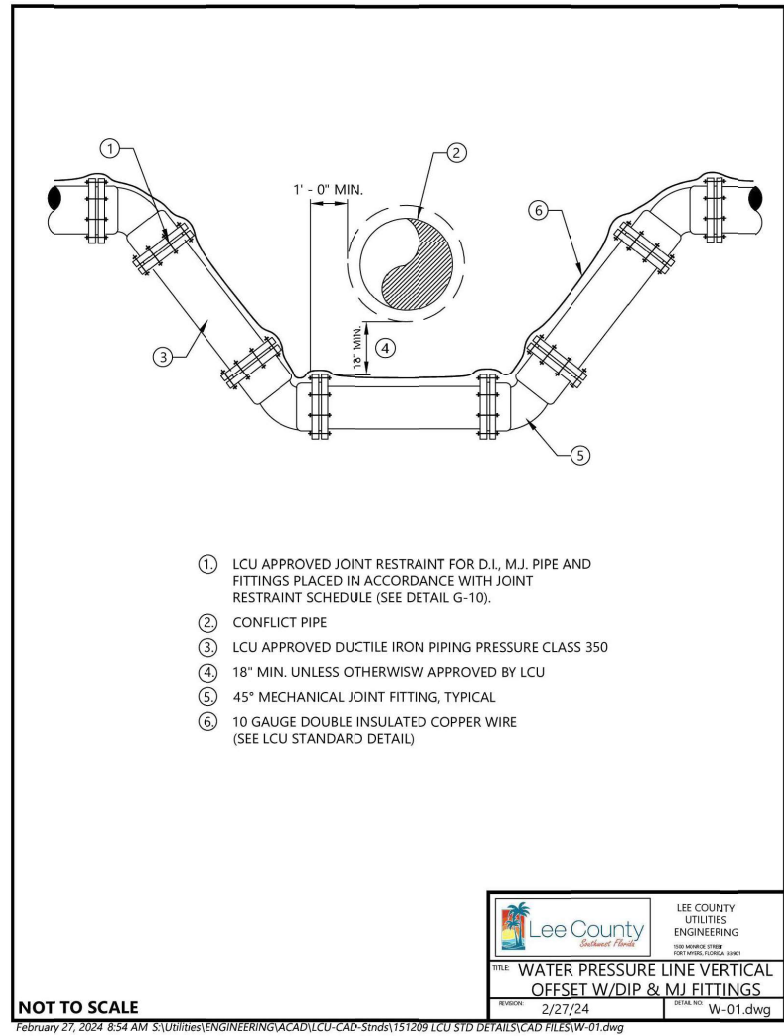
- LENGTHS SHOWN IN THIS TABLE ARE TO BE INTERPRETED AS FOLLOWS:
Lhs = RESTRAINED LENGTH FROM HIGH SIDE FITTING OF A VERTICAL DEFLECTION
Lls = RESTRAINED LENGTH FROM LOW SIDE FITTING OF A VERTICAL DEFLECTION
Lr = RESTRAINED LENGTH ON BOTH SIDES FROM FITTING
Lm = MINIMUM LENGTH TO FIRST JOINT OF RUN ON BOTH SIDES
Lbr = RESTRAINED LENGTH REQUIRED ON BRANCH FROM FITTING
L(A) = LENGTH OF PIPE ON SMALL SIDE FREE OF FITTING
L(B) = RESTRAINED LENGTH ON LARGE SIDE OF REDUCER
- A SAFETY FACTOR = 2.5 IS USED FOR VERTICAL DEFLECTIONS TO COMPENSATE FOR SATURATED SOIL CONDITIONS.
A SAFETY FACTOR = 2.0 IS USED FOR ALL OTHER CASES.
- L(A) AND L(B) ABOVE ARE TWO OPTIONS FOR PROVIDING THRUST RESTRAINT FOR THE REDUCER. EITHER L(A) LENGTH OF PIPE FREE OF FITTINGS (BENDS, TEES, REDUCERS, VALVES) ON THE SMALL SIDE OF THE REDUCER OR L(B) RESTRAINED LENGTH ON THE LARGE SIDE OF THE REDUCER WILL PROVIDE THE REQUIRED RESTRAINT. NO RESTRAINT IS REQUIRED ON THE SMALL SIDE OF A REDUCER.
- ALL DEAD END LINES OR VALVES, PERMANENT OR TEMPORARY, SHALL BE RESTRAINED PER THE ABOVE RESTRAINT

RESTRAINT TABLE

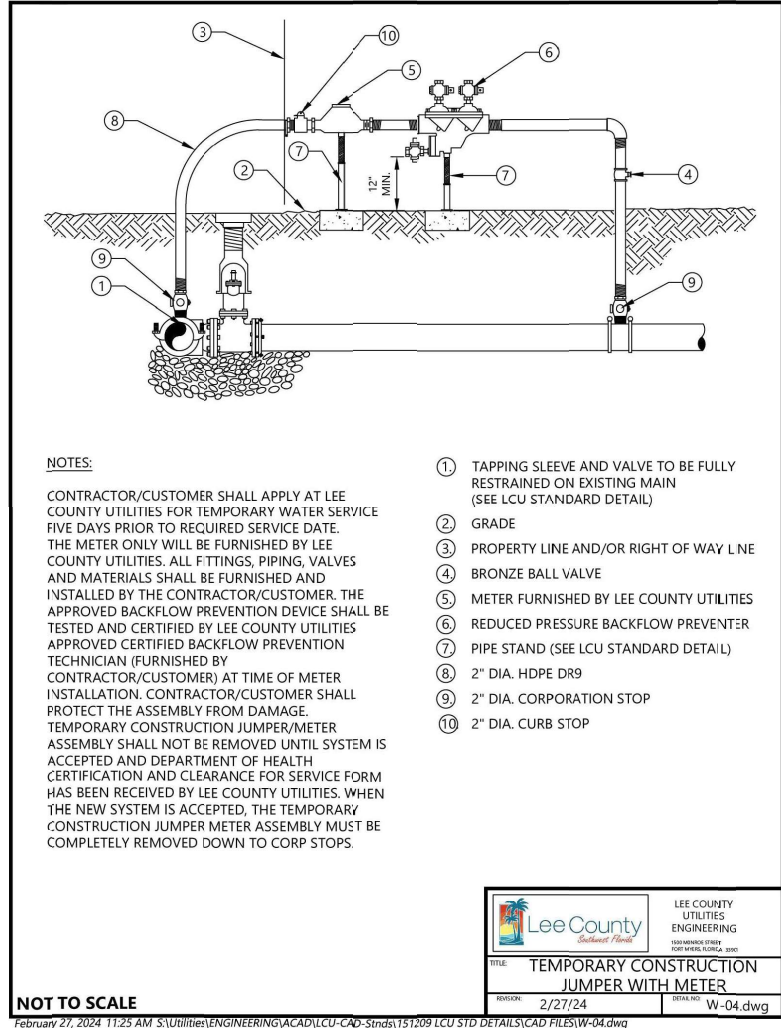
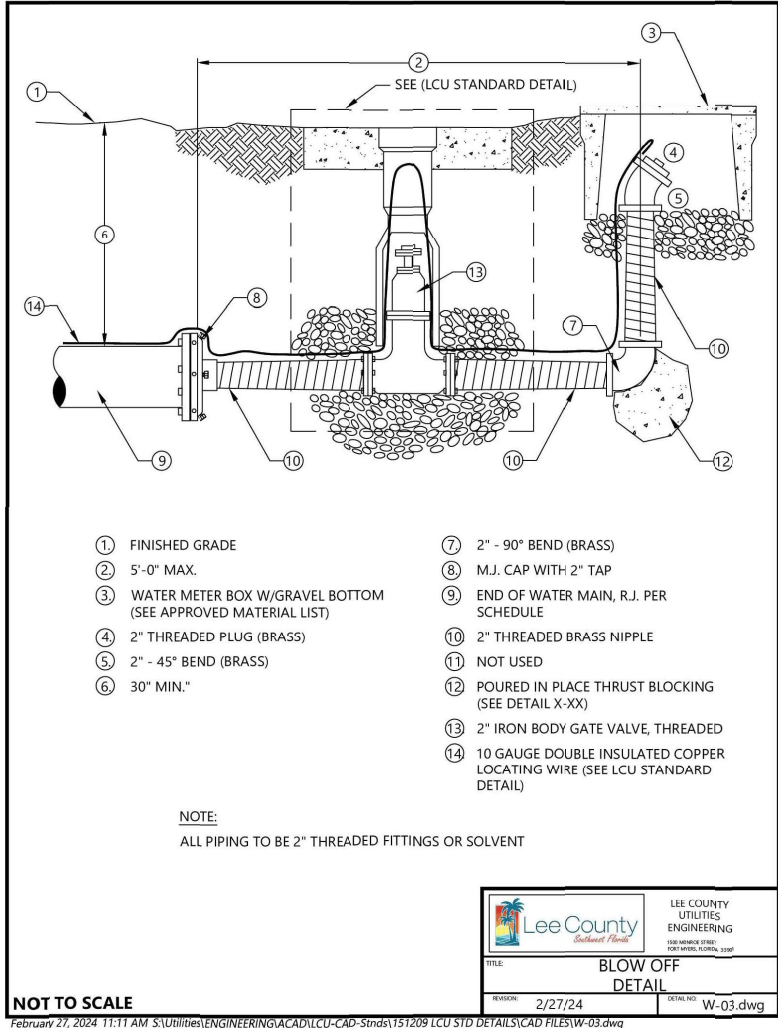
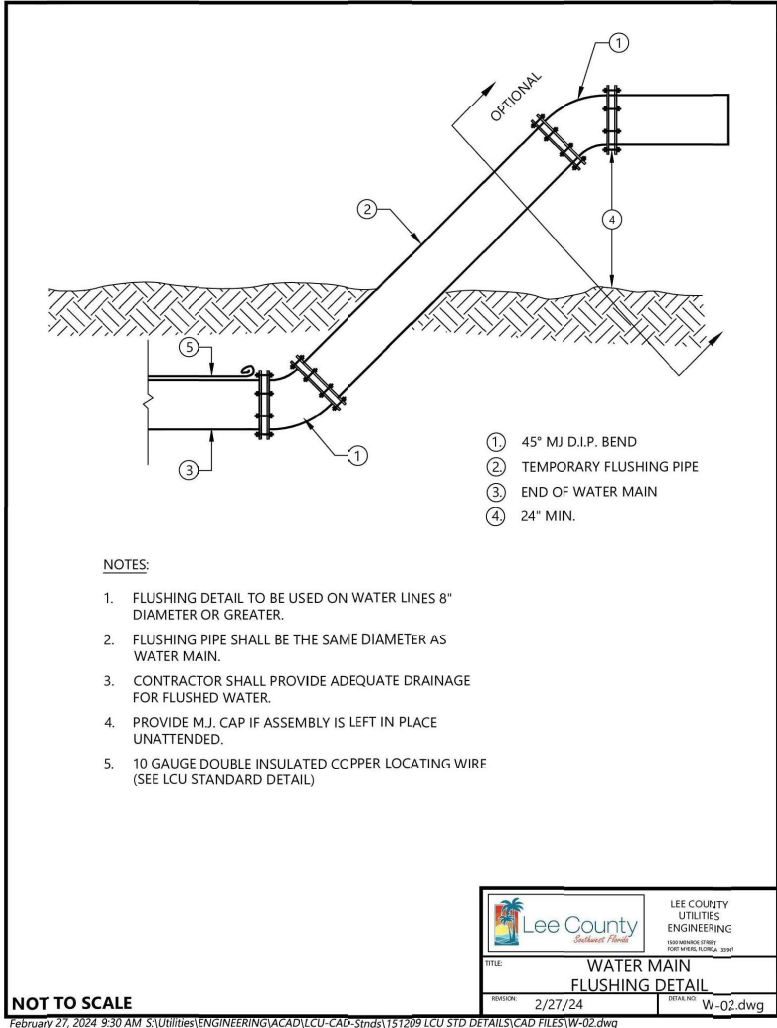
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Lee County Utilities Engineering
1000 W. BAYSHORE STREET
PORT MYERS, FLORIDA 33901

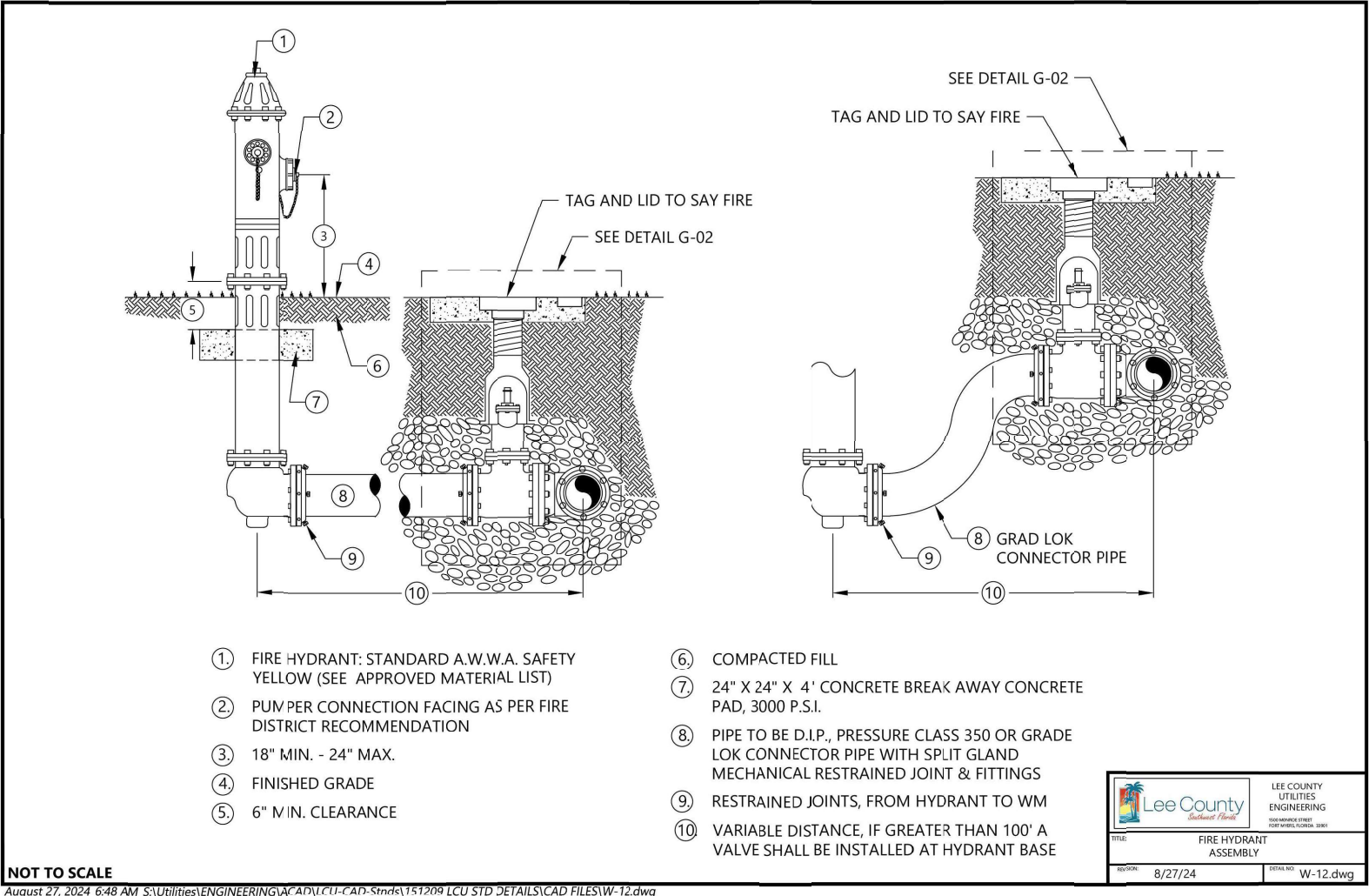
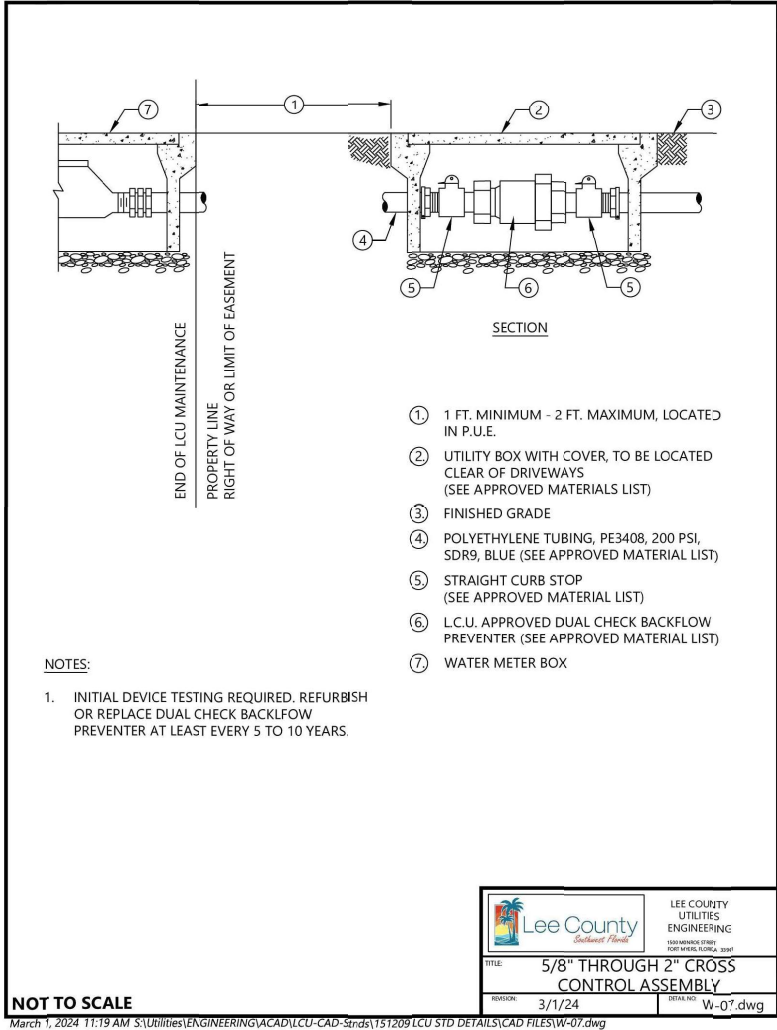
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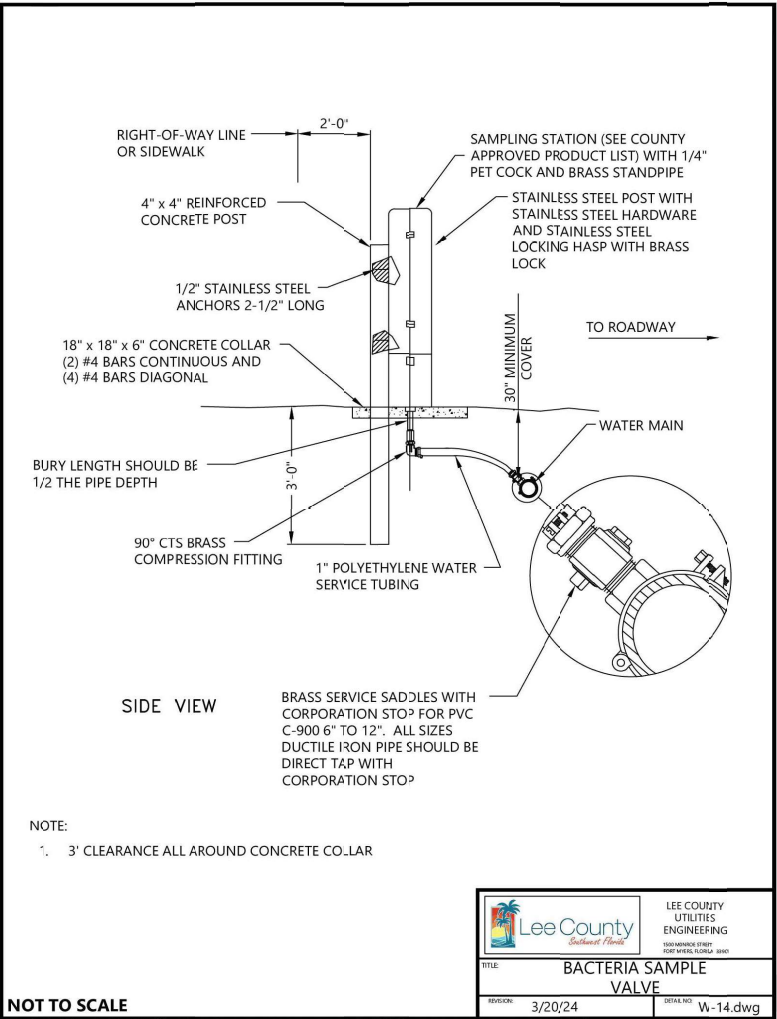
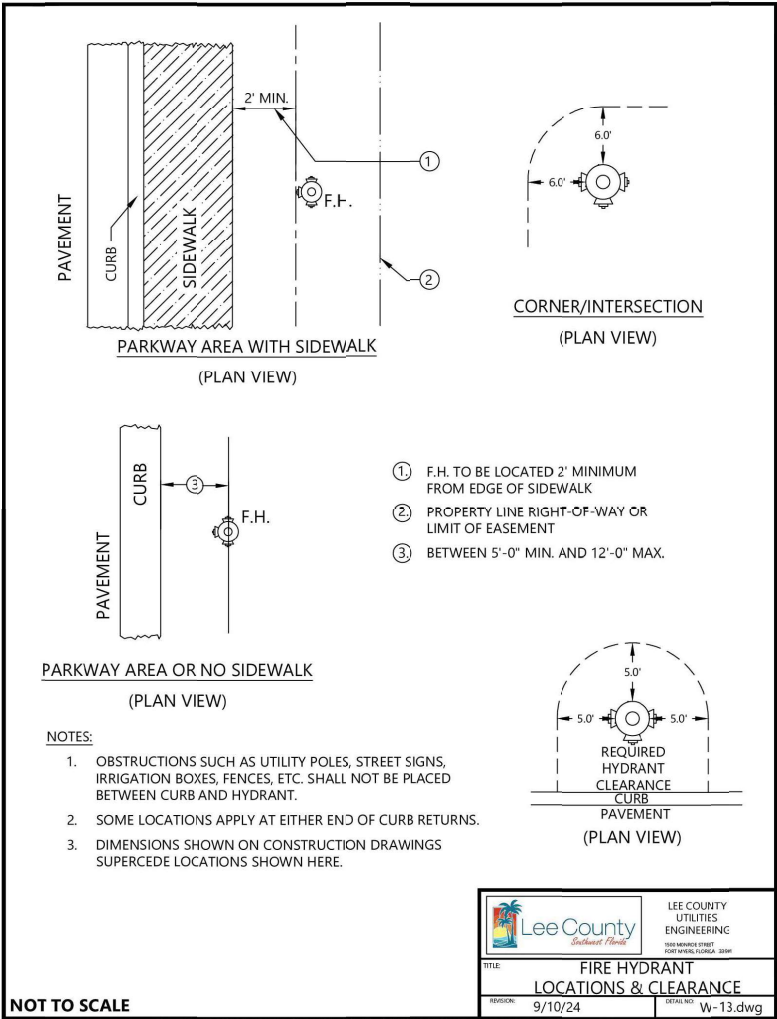
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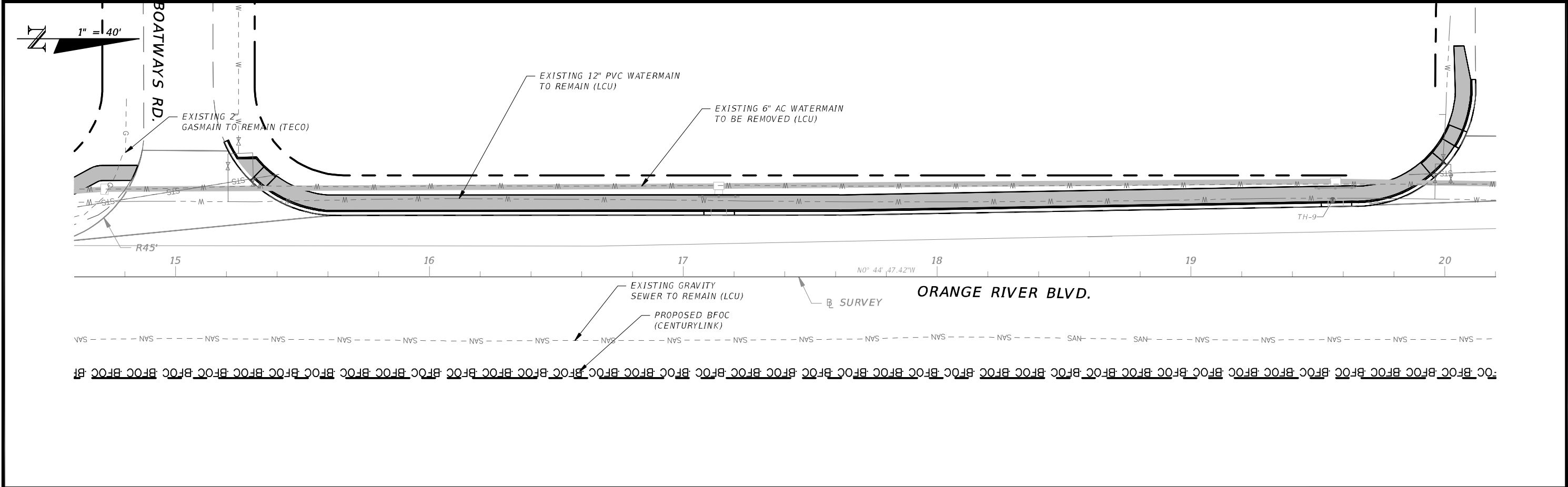
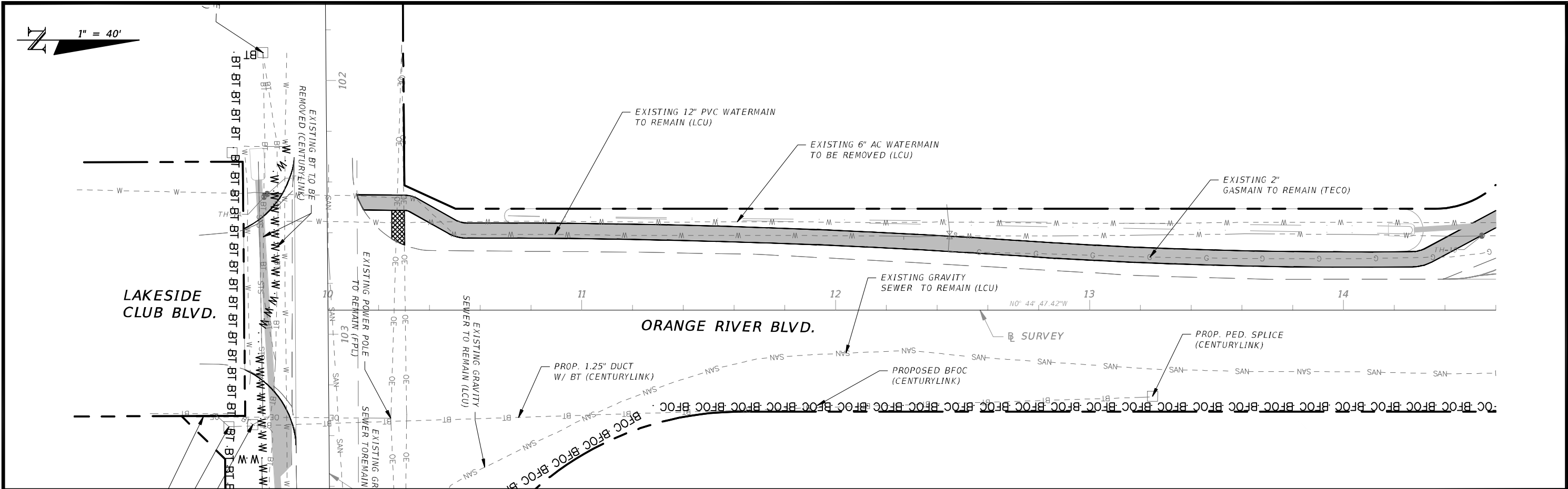
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DATE	DESCRIPTION	DATE	DESCRIPTION				
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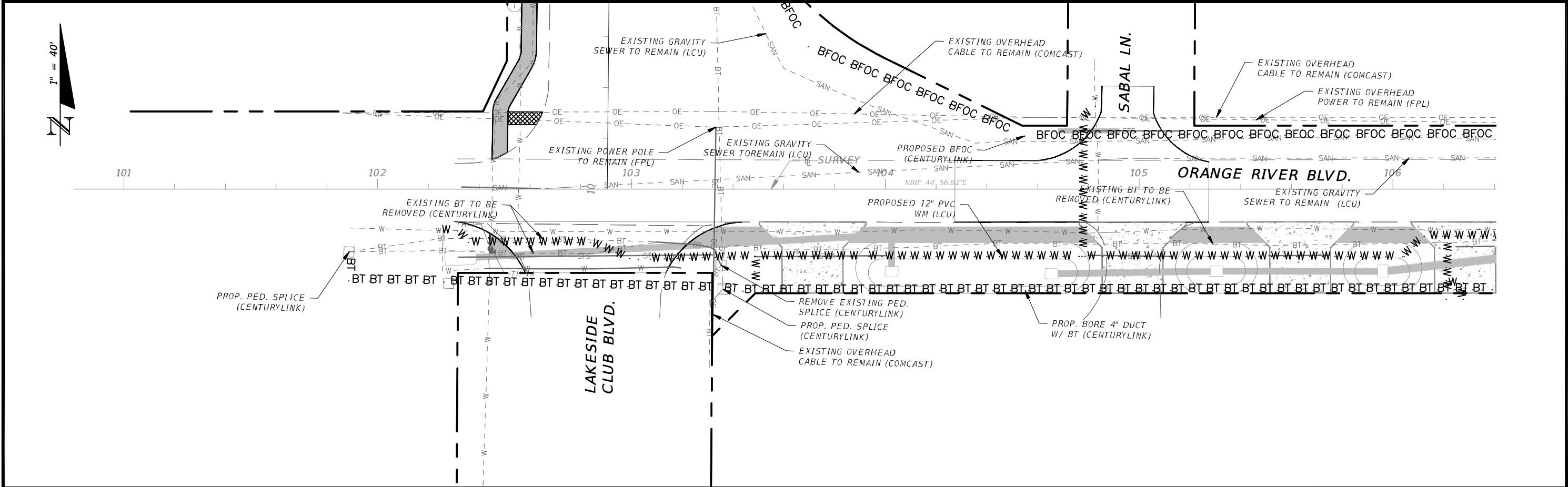
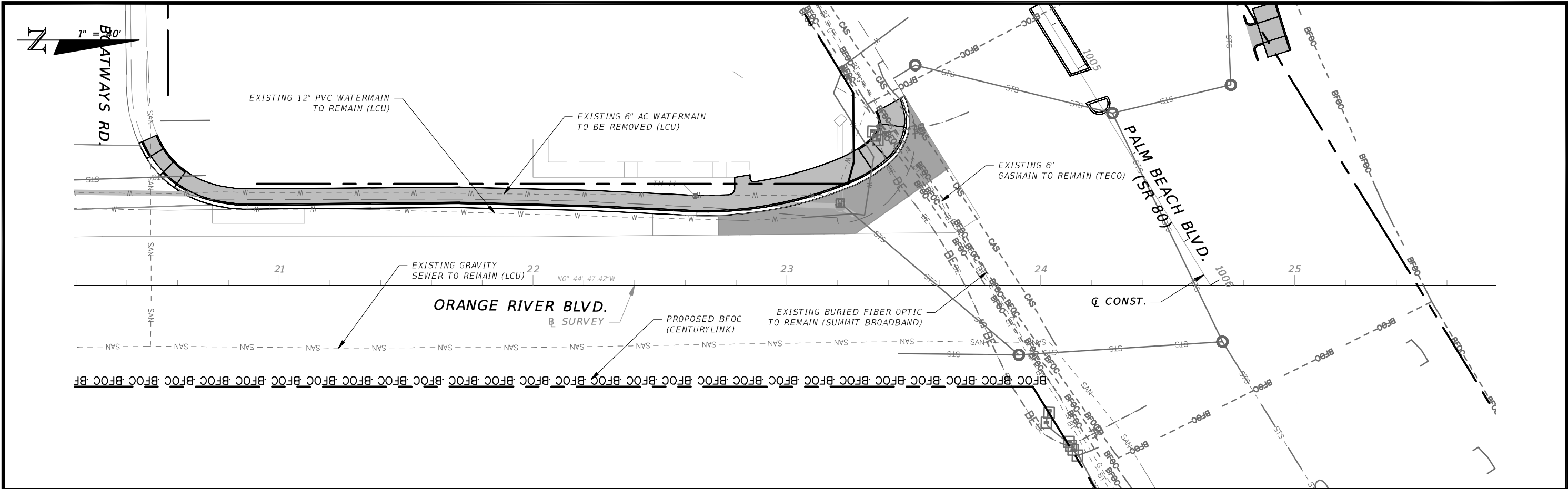
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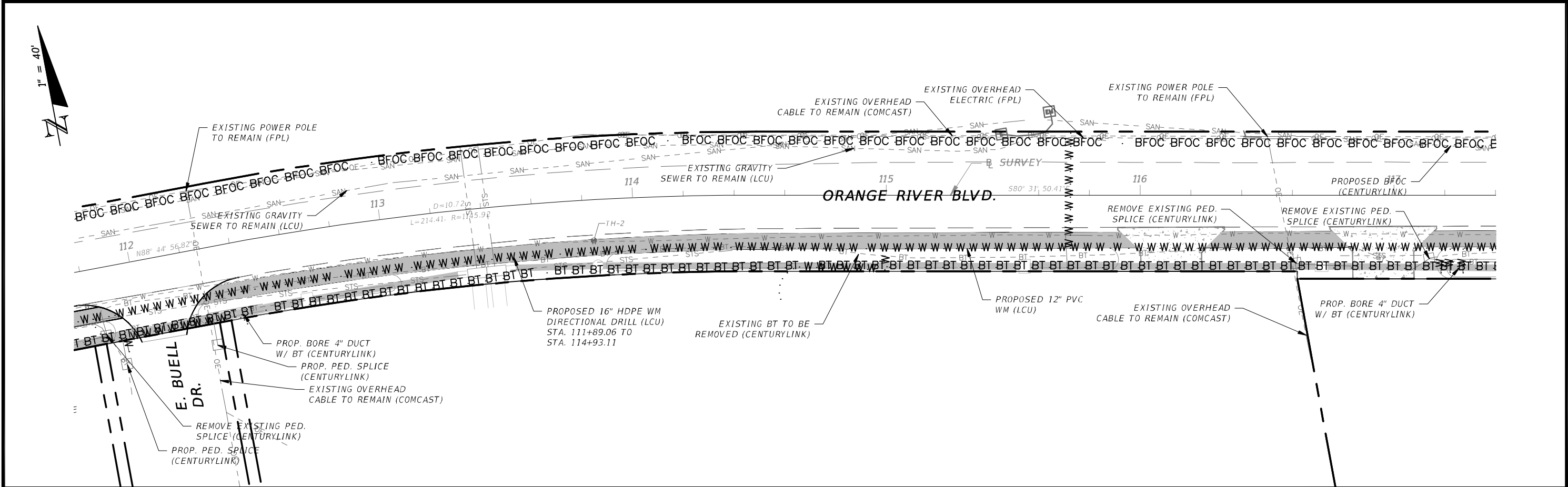
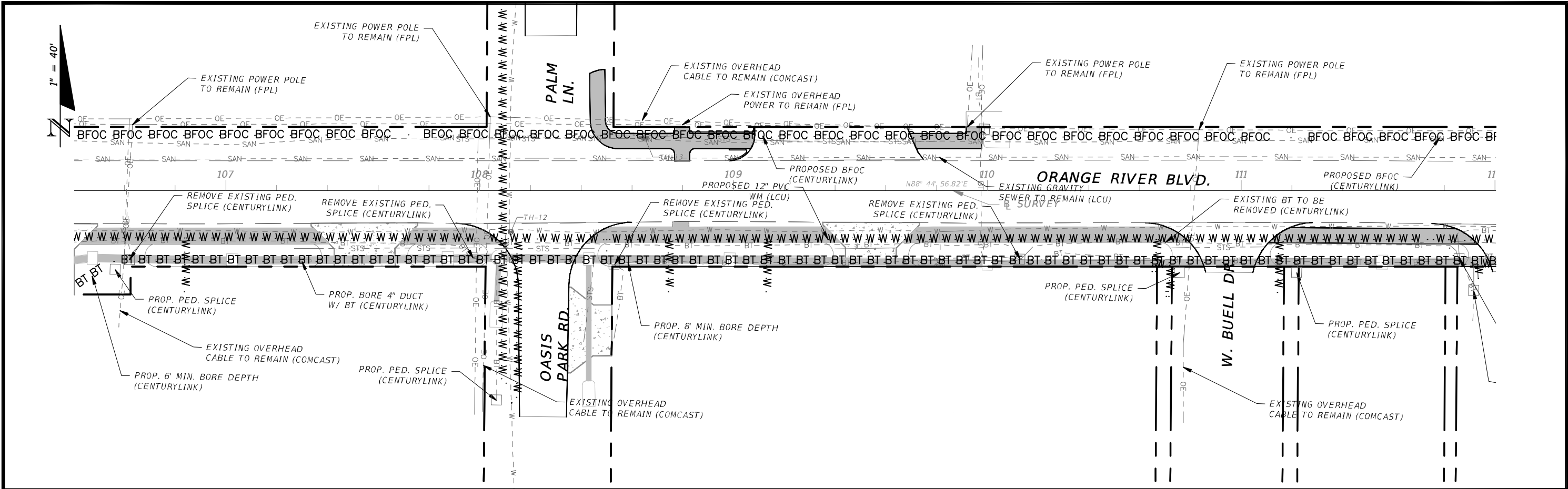
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DATE	DESCRIPTION	DATE	DESCRIPTION						
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						LEE COUNTY	20-0016A		89



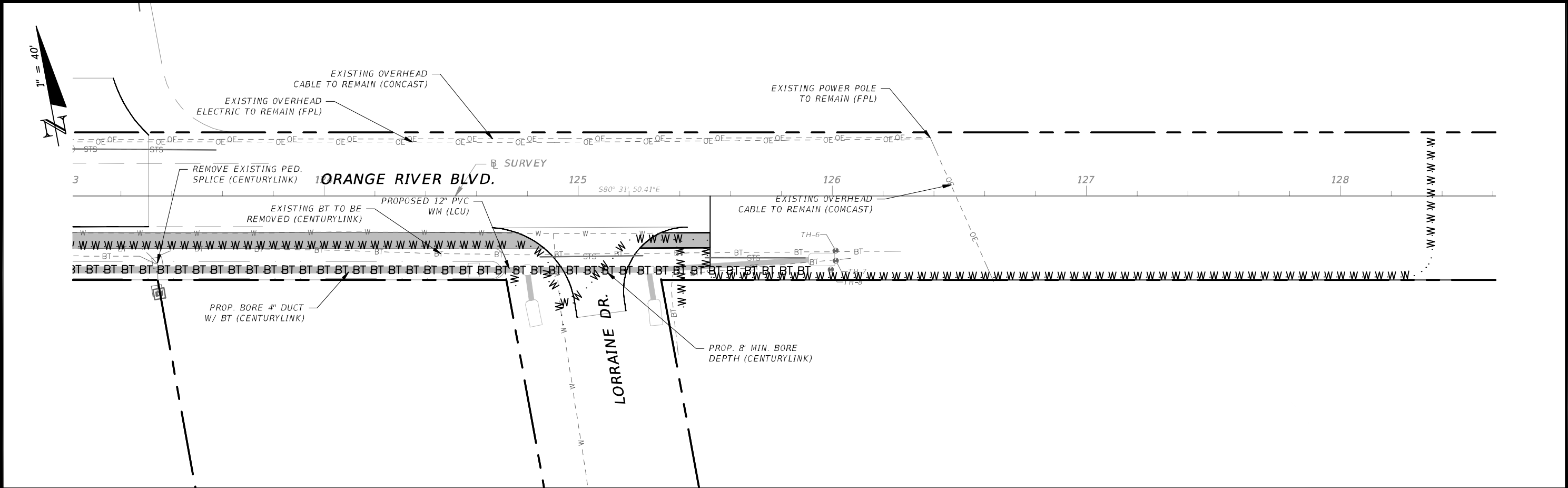
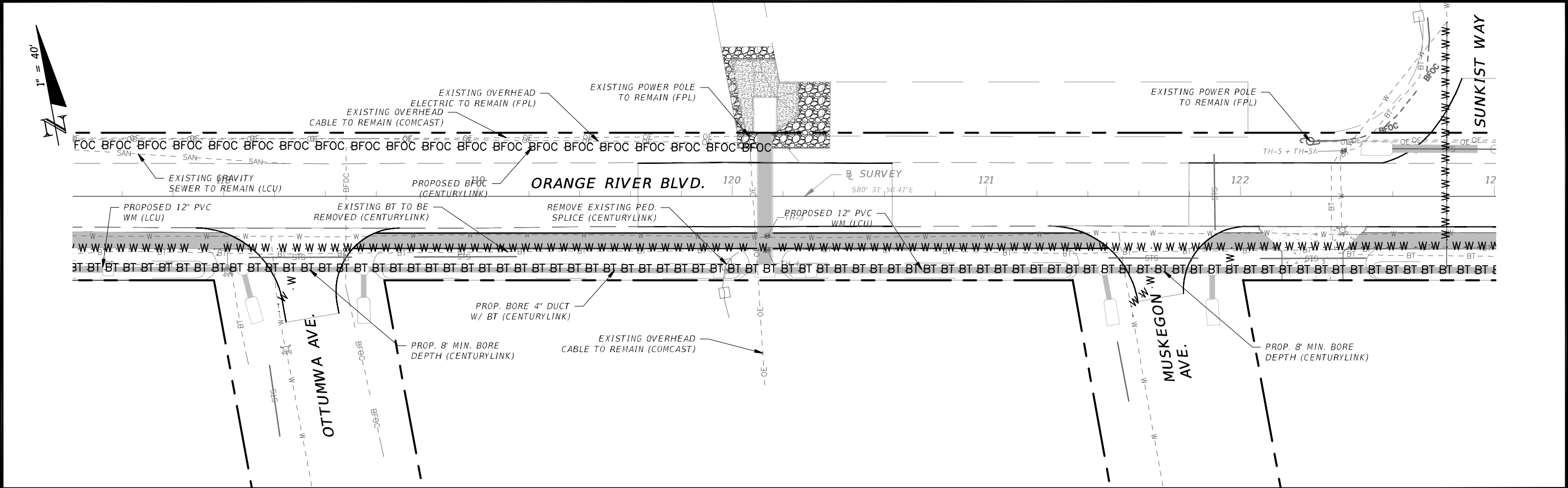
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DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		90
					LEE COUNTY	20-0016A		



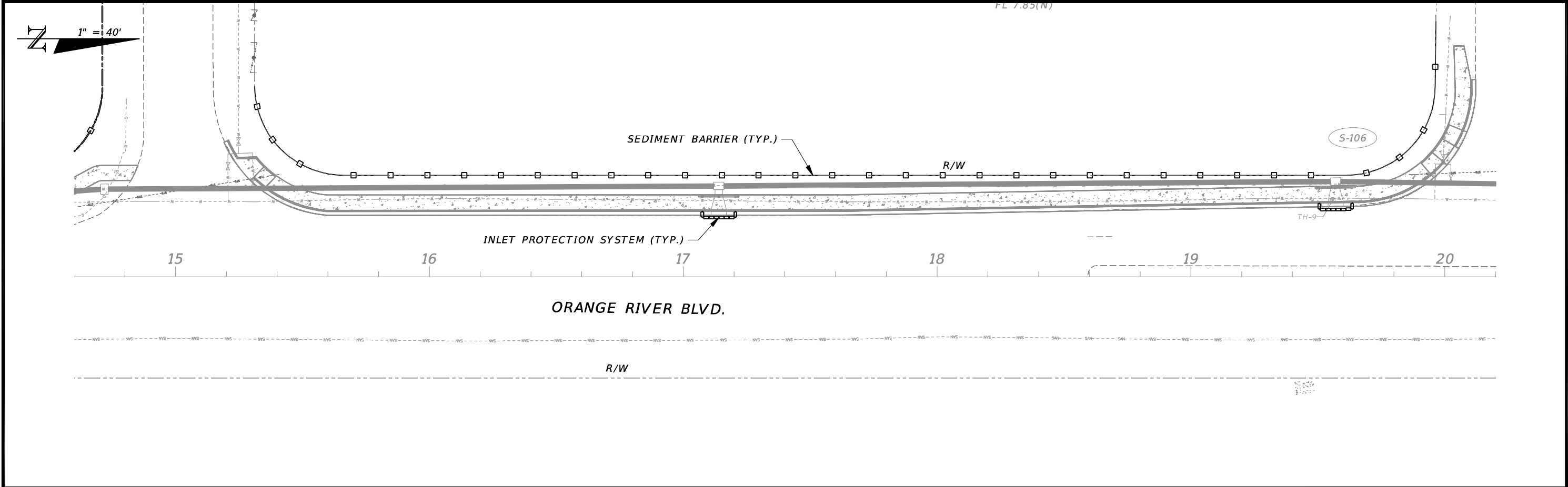
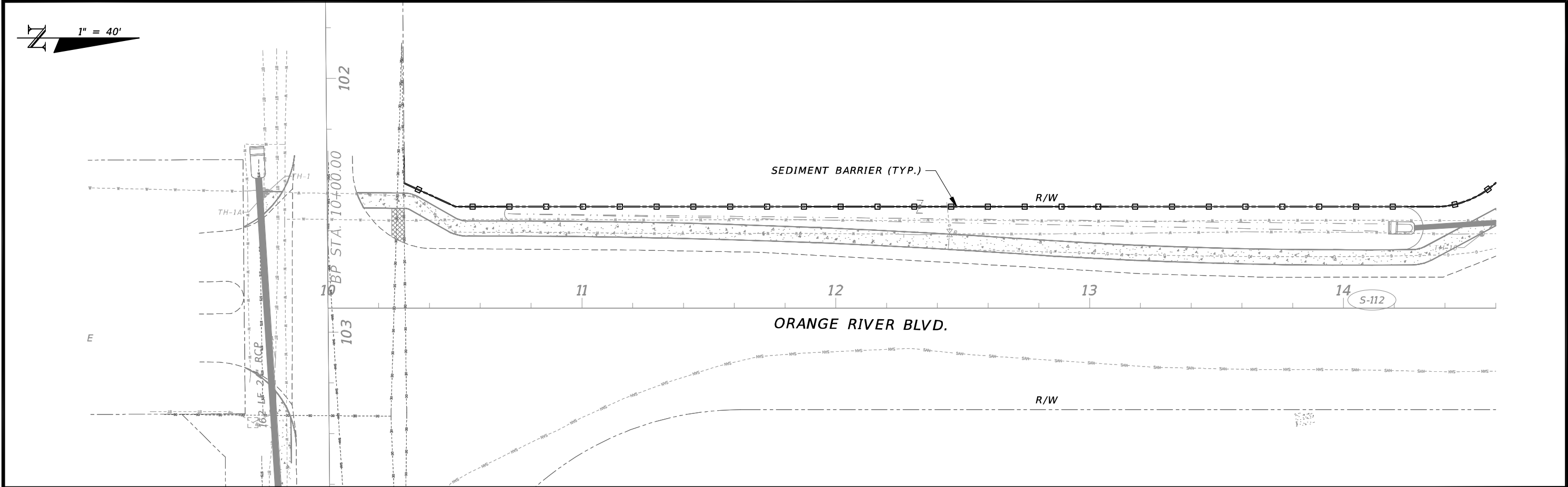
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DATE	DESCRIPTION	DATE	DESCRIPTION						



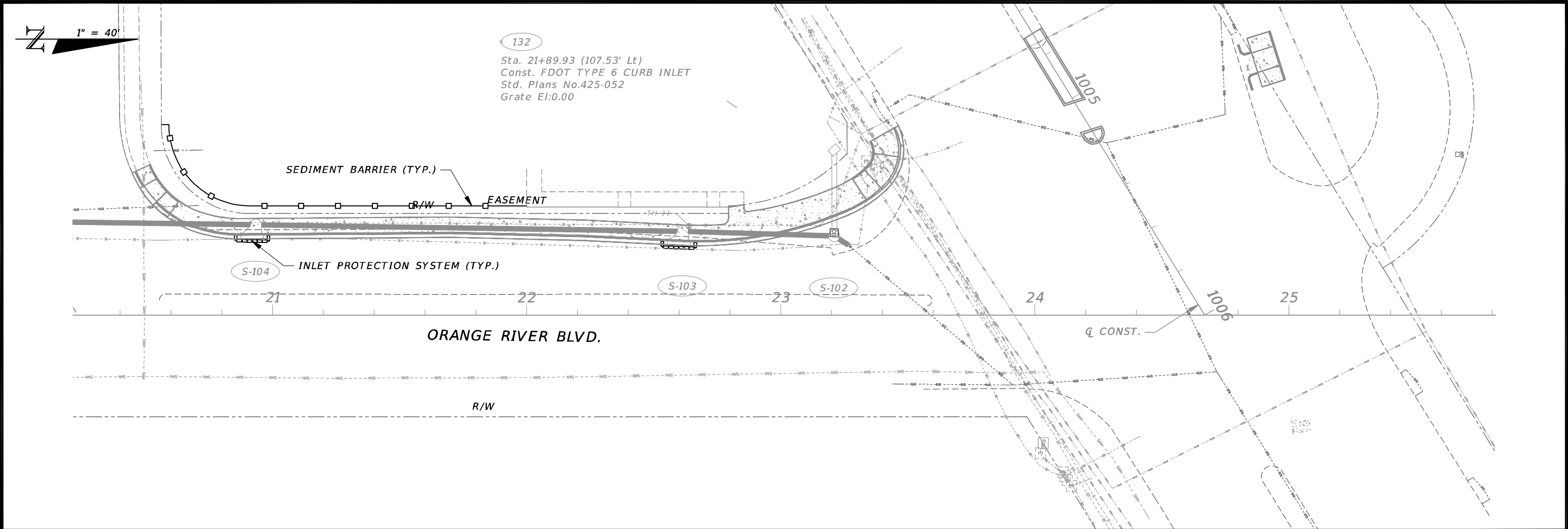
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DATE	DESCRIPTION	DATE	DESCRIPTION							



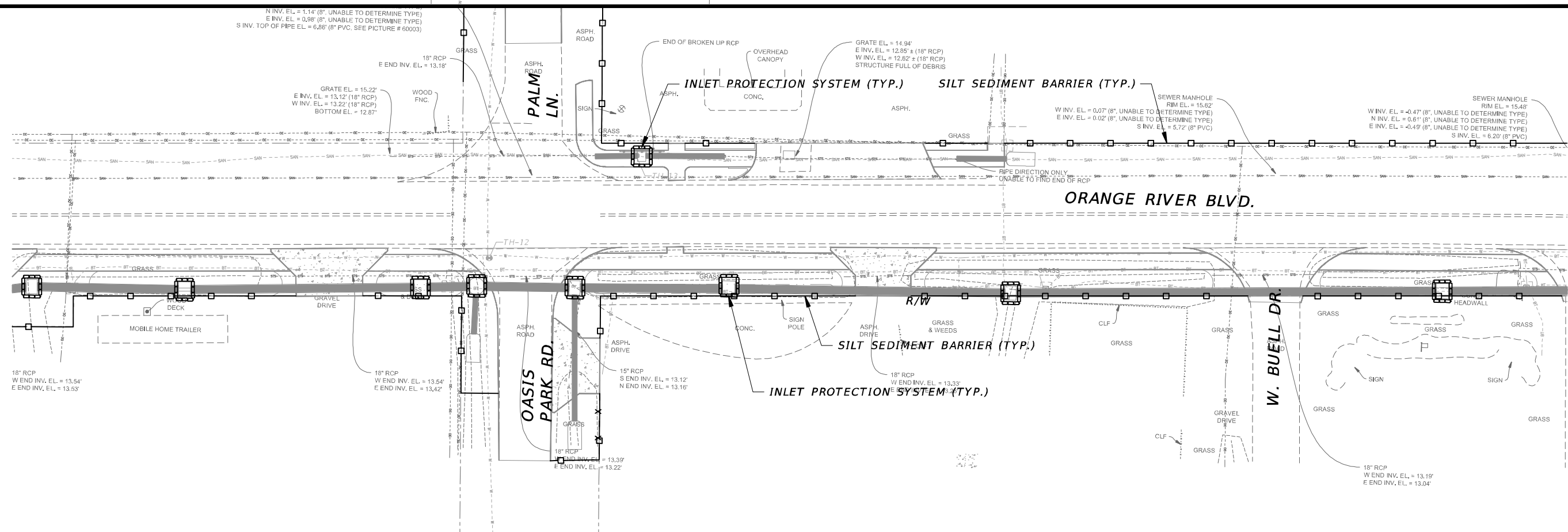
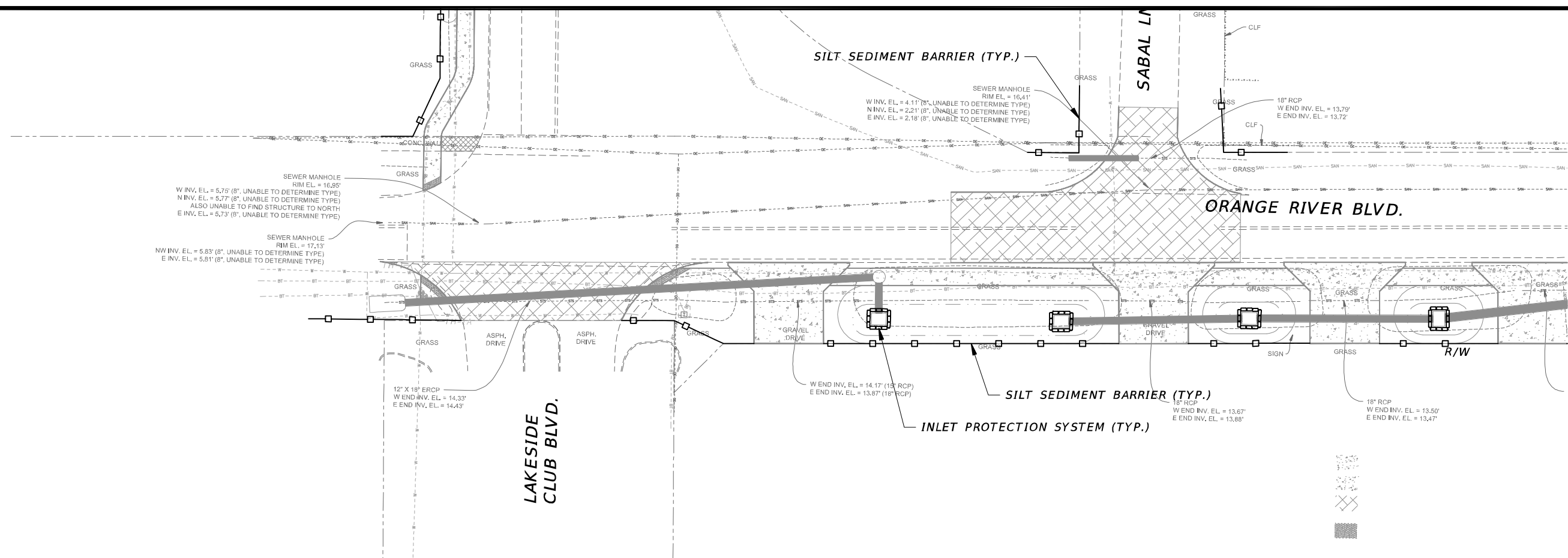
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DATE	DESCRIPTION	DATE	DESCRIPTION		COUNTY	PROJECT #		
					LEE COUNTY	20-0016A		94



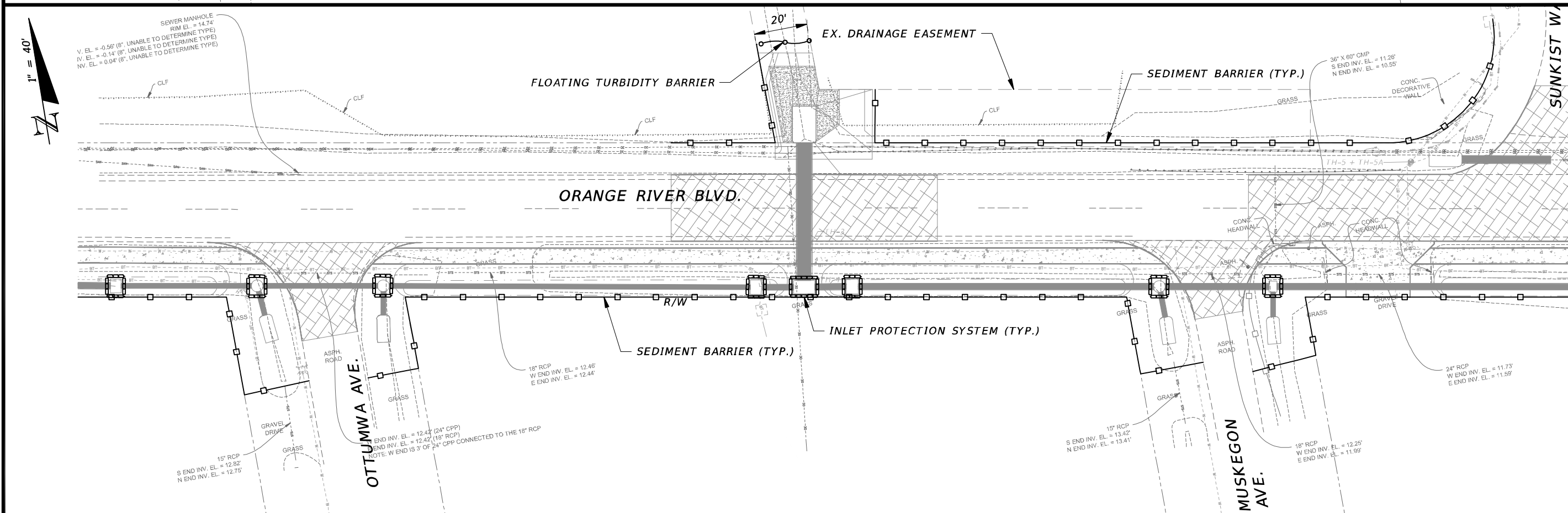
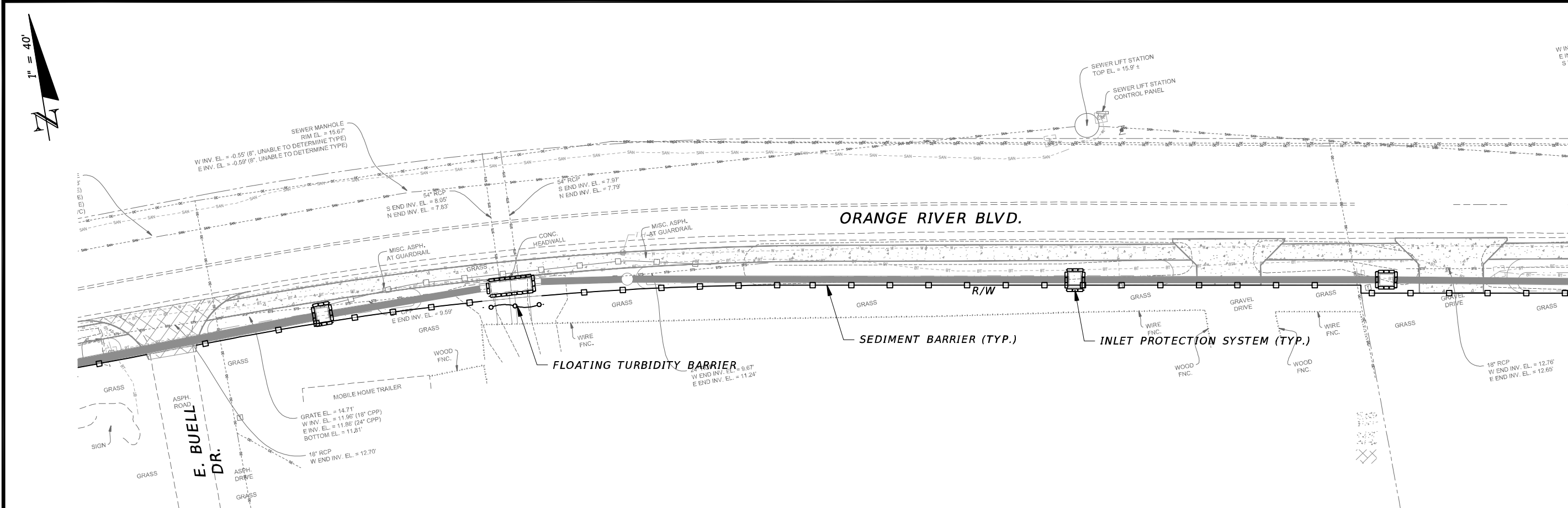
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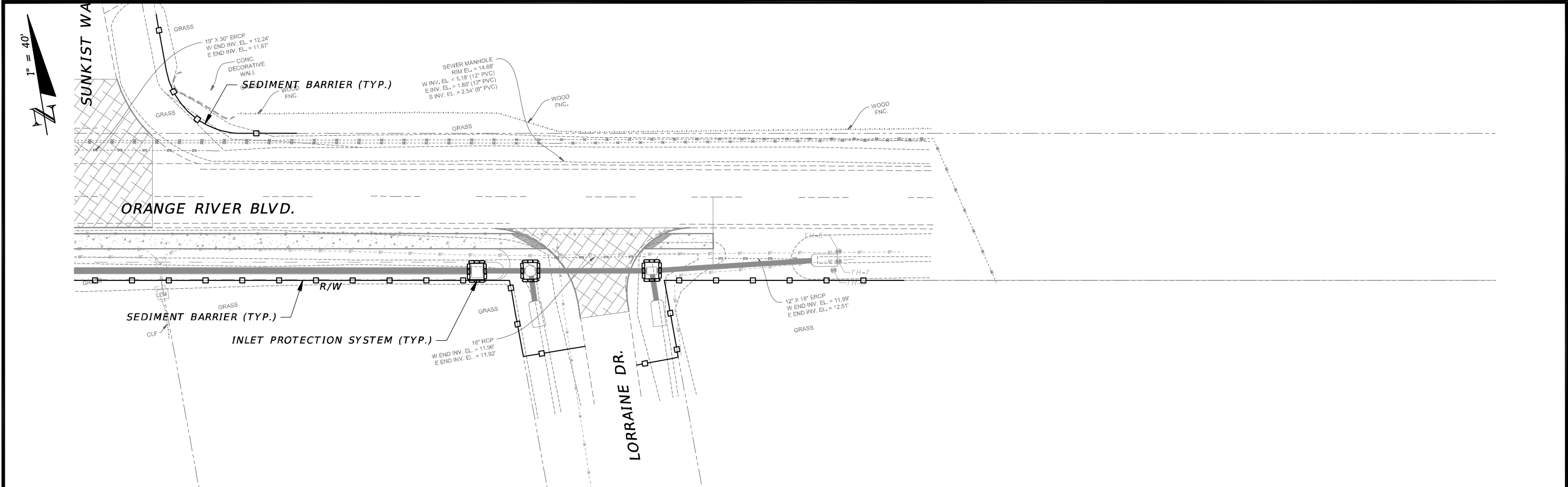
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					LEE COUNTY	20-0016A		

December 19, 2024 - 2:47pm J:\20-0016A Orange River SW\CADD\DWG\96-20-0016A-ERSN-CRTL.dwg

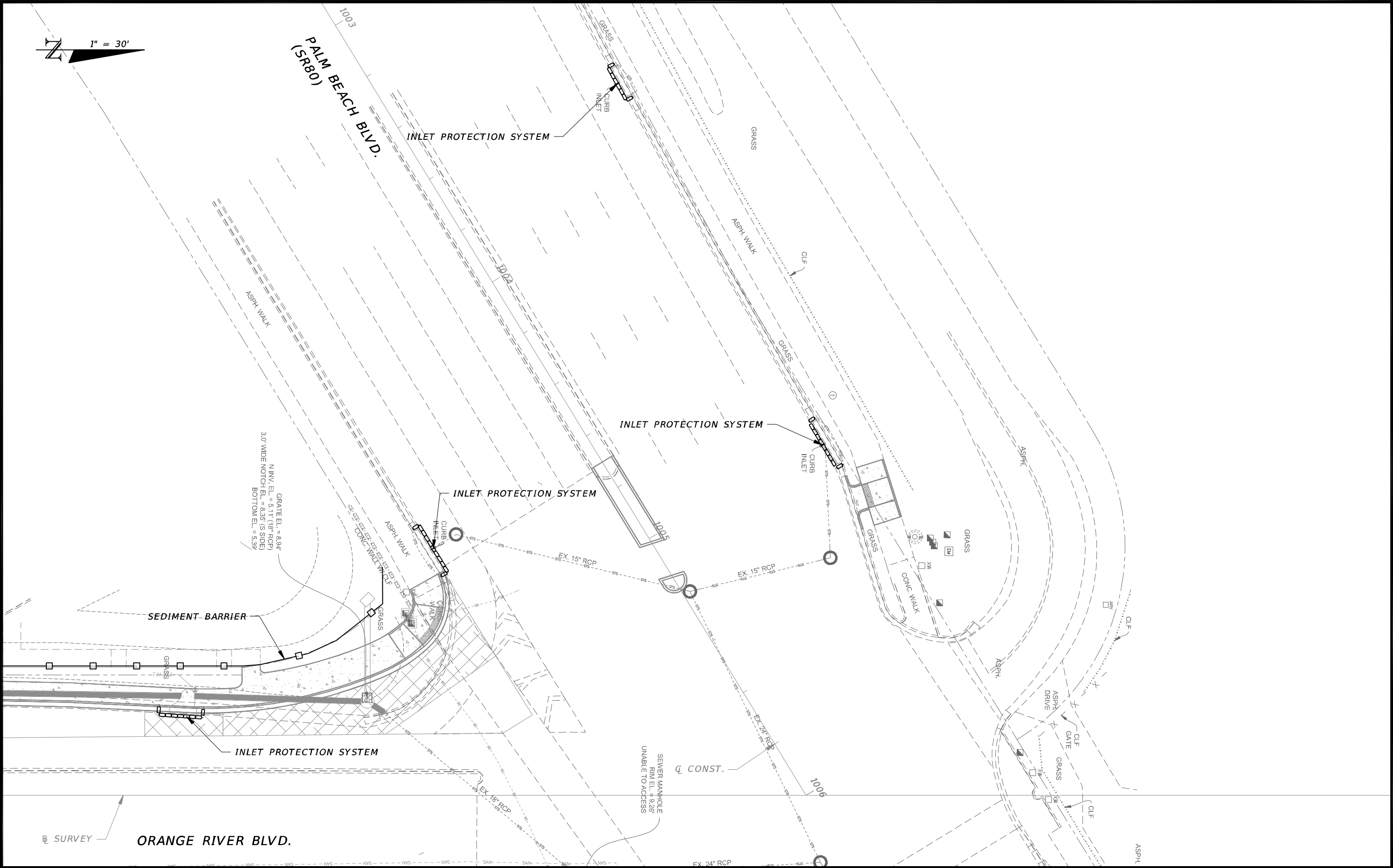
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DATE	DESCRIPTION	DATE	DESCRIPTION					
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REVISIONS				CW3 Engineering, Inc. 5783 BAYSHORE RD., SUITE 113 NORTH FT. MYERS, FL 33917 PH. 239-205-6473 WEBSITE: WWW.CW-3.COM CLAIR WRIGHT, III P.E. No. 64089	ORANGE RIVER BLVD. SIDEWALK AND WATERMAIN REPLACEMENT CN200224JJB		EROSION CONTROL PLAN STATE ROAD 80		SHEET NO. 99
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