

COMPONENTS OF CONTRACT PLAN SET

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

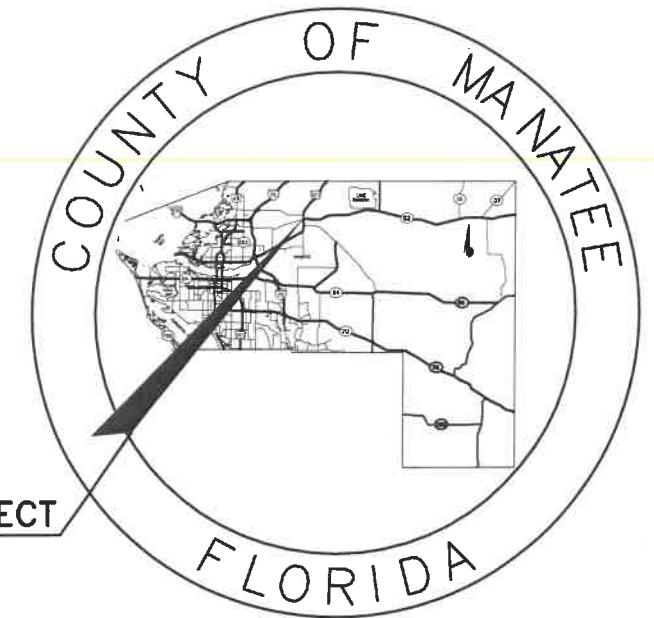
STATE OF FLORIDA COUNTY OF MANATEE

PLANS OF PROPOSED ERIE RD. AND SR 62 IMPROVEMENTS PARRISH, FLORIDA

MC PROJECT No. 850-6094060

FDOT FPID 445308-1-58-01

FDOT MILE POST (US301) 11.175



LOCATION OF PROJECT

INDEX OF ROADWAY PLANS

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77	MANATEE COUNTY DETAIL SHEET



END PROJECT
STA. 124+00.00

BEGIN PROJECT
STA. 100+26.00

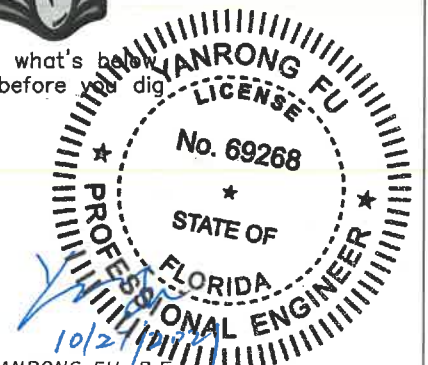
FINAL PLANS

NGVD 29 DATUM

ATTENTION IS DIRECTED TO THE FACT THAT THESE PLANS MAY HAVE BEEN ENLARGED IN SIZE BY REPRODUCTION. THIS MUST BE CONSIDERED WHEN OBTAINING SCALED DATA.



Know what's below.
Call before you dig.



FLORIDA P.E. # 69268

ROADWAY PLANS
PROFESSIONAL OF RECORD: YANRONG FU, P.E.

MANATEE COUNTY PUBLIC WORKS
1022 26th AVENUE EAST
BRADENTON, FL 34208

GOVERNING STANDARD PLANS

FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2021-22 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRs)

STANDARD PLANS FOR ROAD CONSTRUCTION AND ASSOCIATED IRs ARE AVAILABLE AT THE FOLLOWING WEBSITE <https://www.fdot.gov/design/StandardPlans/current/default.shtm>

APPLICABLE IRs: IR536-001-01, IR521-001-01

ERIE ROAD TO BE CONSTRUCTED IN ACCORDANCE TO MANTEE COUNTY PUBLIC WORKS STANDARDS 2016 AMENDED VERSION.

GOVERNING STANDARD SPECIFICATIONS

FLORIDA DEPARTMENT OF TRANSPORTATION, JULY 2021 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWING WEBSITE. <https://www.fdot.gov/programmanagement/Implemented/SpecBooks>



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

SHEET NO.

01

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SR 62 ROADWAY (STATE FUNDED)

ERIE ROAD (COUNTY FUNDED)

LINE NO.	FDOT ITEM NO.	DESCRIPTION	EST. QTY	U/M
		ROAD WORK		
1	101-1	MOBILIZATION	1	LS
2	102-1	MAINTENANCE OF TRAFFIC	1	LS
3	104-10-3	SEDIMENT BARRIER	3,161	LF
4	104-18	INLET PROTECTION SYSTEM	5	EA
5	107-1	LITTER REMOVAL	5.00	AC
6	107-2	MOWING	5.00	AC
7	110-1-1	CLEARING & GRUBBING	5.00	AC
8	110-7-1	MAILBOX, F&I SINGLE	3.00	EA
9	120-1	REGULAR EXCAVATION	5,682	CY
10	120-6	EMBANKMENT	1,670	CY
11	160-4	STABILIZED SUBBASE (12" TYPE B)	10,219	SY
12	285-7-01	OPTIONAL BASE, BASE GROUP 1	1,494	SY
13	285-7-09	OPTIONAL BASE, BASE GROUP 9	7,231	SY
14	327-70-06	MILLING, EXIST ASPH PAVT, 1 1/2" AVG DEPTH	5,957	SY
15	334-1-53	ASPHALTIC CONCRETE STRUCTURAL, TRAFFIC C, SP 12.5, PG. 76-22	1,376	TN
16	337-7-83	ASPHALTIC CONCRETE FRICTION, TRAFFIC C, FC 12.5, PG. 76-22	1,226	TN
17	425-1-201	INLETS, CURB, TYPE 9, <10'	1	EA
18	425-1-209	INLETS, CURB, TYPE 9, <10', MODIFIED	2	EA
19	425-1-549	INLETS, DT BOT, TYPE D, MODIFIED <10'	1	EA
20	425-11	MODIFY EXISTING DRAINAGE STRUCTURE	4	EA
21	430-174-124	PIPE CULVERT, RCP, 24" SD	11	LF
22	430-175-218	PIPE CULVERT RCP, OTHER-ELLIP/ARCH, 18"S/CD	187	LF
23	430-982-625	MITERED END SECT, OPT-ELLPTICAL/ARCH, 18 CD	5	EA
24	440-1-20	UNDERDRAIN, TYPE II	10	LF
25	440-70	UNDERDRAIN, INSPECTION BOX	1	EA
26	515-1-1	PIPE HANDRAIL-GUIDERAIL STEEL	20	LF
27	520-1-10	CONCRETE CURB AND GUTTER, TYPE F	530	LF
28	522-1	SIDEWALK CONCRETE 4" THICK FOR SIDEWALKS	320	SY
29	522-2	SIDEWALK CONCRETE 6" THICK FOR DRIVEWAYS AND HC RAMPS	235	SY
30	527-2	DETECTABLE WARNINGS	30	SF
31	550-10-110	FENCE TYPE A, 0. 0-5.0' STANDARD	1,340	LF
32	570-1-2	PERFORMANCE TURF (BAHIA SOD)	15,120	SY
		SUBTOTAL ROAD WORK		

LINE NO.	FDOT ITEM NO.	DESCRIPTION	EST. QTY	U/M
		ROAD WORK		
1.	101-1	MOBILIZATION	1.00	LS
2.	102-1	MAINTENANCE OF TRAFFIC	1.00	LS
3.	104-10-3	SEDIMENT BARRIER	720	LF
4.	0104-18	INLET PROTECTION SYSTEM	2	EA
5.	110--1-1	CLEARING & GRUBBING	0.90	AC
6.	120-1	REGULAR EXCAVATION	156.9	CY
7.	120-6	EMBANKMENT	102.8	CY
8.	160-4	TYPE B STABILIZATION	1,298	SY
9.	285-7-09	OPTIONAL BASE, BASE GROUP 9	1,023	SY
10.	327-70-1	MILLING, EXISTING ASPHALT, 1.5" AVG DEPTH	1,270	SY
11.	334-1-53	ASPHALTIC CONCRETE STRUCTURAL, TRAFFIC C, SP 12.5, PG. 76-22	162	TN
12.	337-7-83	ASPHALTIC CONCRETE FRICTION, TRAFFIC C, FC 12.5, PG. 76-22	200	TN
13.	425-15-41	INLETS, DT BOT, TYPE D, <10'	2	EA
14.	MC1	JUNCTION BOX 4' x 5'- 4" WITH TRAFFIC BEARING LID	1	EA
15.	430-175-215	PIPE CULVERT, RCP, OTHER-ELLIP/ARCH, 15"S/CD	221	LF
16.	520-1-10	CONCRETE CURB AND GUTTER, TYPE F	530	LF
17.	520-2-1	CONCRETE CURB AND GUTTER, VARIABLE HEIGHT TYPE F (DROP CURB)	445	LF
18.	0522-1	SIDEWALK CONCRETE 4" THICK FOR SIDEWALKS	250	SY
19.	0522-2	SIDEWALK CONCRETE 6" THICK FOR DRIVEWAYS AND HC RAMPS	109	SY
20.	0527-2	DETECTABLE WARNINGS	50	SF
21.	0570-1-2	PERFORMANCE TURF (BAHIA SOD)	1,000	SY

SUMMARY OF EARTHWORK ACCESS RD		
REGULAR EXCAVATION	29.6	CY
EMBANKMENT	95.5	CY

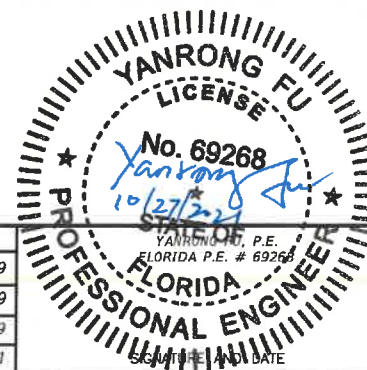
SUMMARY OF EARTHWORK SR 62		
REGULAR EXCAVATION	1,818.6	CY
EMBANKMENT	1,574.0	CY

SUMMARY OF EARTHWORK ERIE ROAD		
REGULAR EXCAVATION	156.9	CY
EMBANKMENT	102.8	CY

SUMMARY OF EARTHWORK US 301		
REGULAR EXCAVATION	201.5	CY
EMBANKMENT	0.0	CY

SUMMARY OF EARTHWORK POND 1		
REGULAR EXCAVATION	3,632.8	CY
EMBANKMENT	0.0	CY

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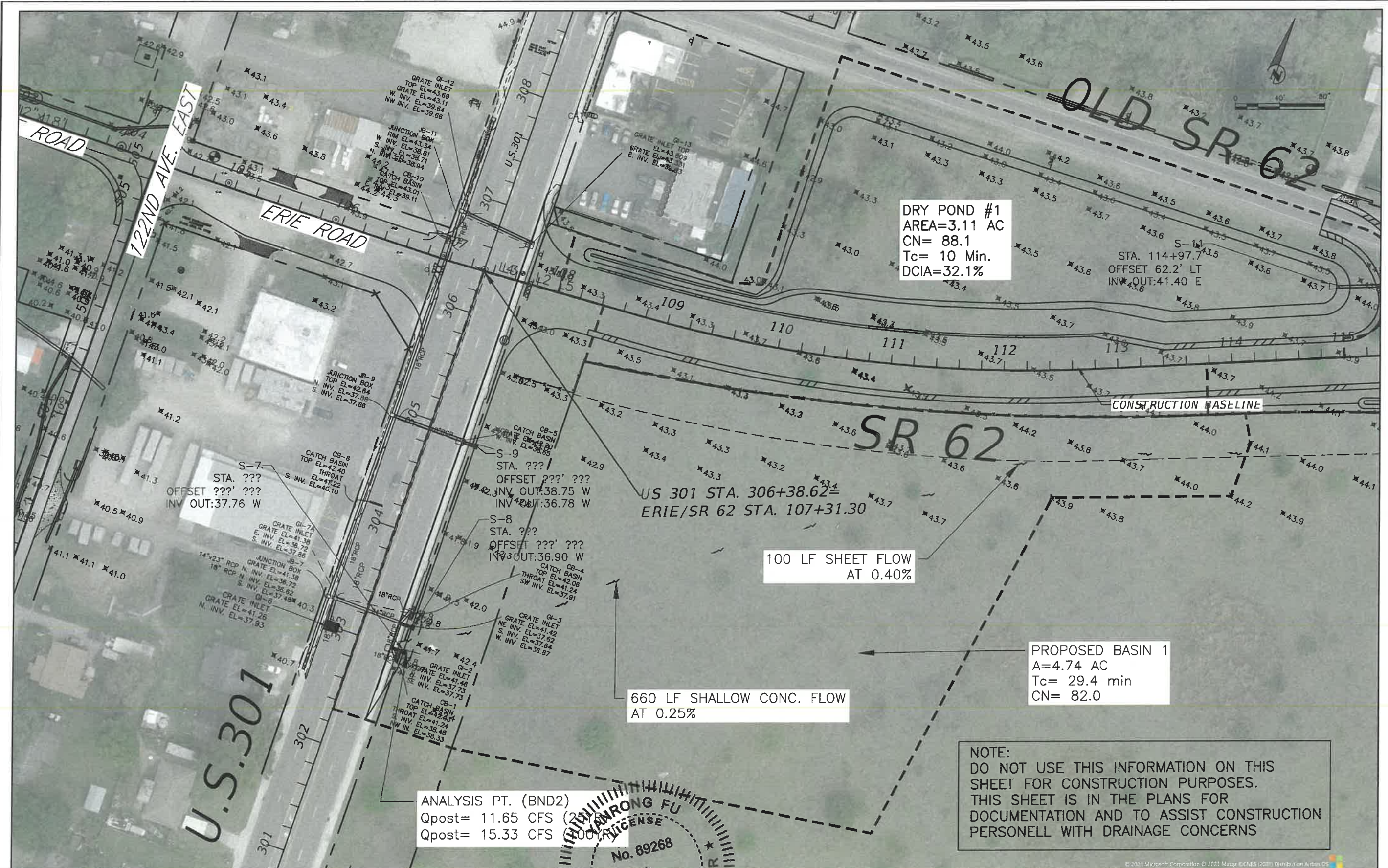
ERIE RD. AND SR 62 IMPROVEMENTS

SUMMARY OF PAY ITEMS

VERTICAL DATUM NGVD 1929
SHEET NO. 02

DATE	DESCRIPTION	DATE	FDOT FPID #	445308-1-58-01
			PROJECT #	850-6094060
			SURVEYED	ZNS 01/2019
			DESIGNED	MCG 01/2019
			DRAWN	MCG 01/2019
			CHECKED	SF 08/2021

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DRY POND #1
 AREA=3.11 AC
 CN= 88.1
 Tc= 10 Min.
 DCIA=32.1%

S-11
 STA. 114+97.7
 OFFSET 62.2' LT
 INV. OUT:41.40 E

S-7
 STA. ???
 OFFSET ???' ???
 INV. OUT:37.76 W

S-9
 STA. ???
 OFFSET ???' ???
 INV. OUT:38.75 W
 INV. OUT:36.78 W

S-8
 STA. ???
 OFFSET ???' ???
 INV. OUT:36.90 W

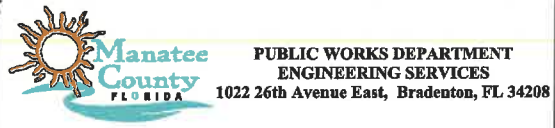
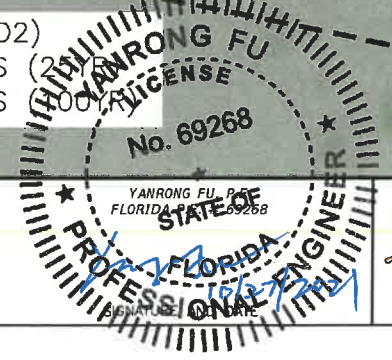
100 LF SHEET FLOW
 AT 0.40%

660 LF SHALLOW CONC. FLOW
 AT 0.25%

PROPOSED BASIN 1
 A=4.74 AC
 Tc= 29.4 min
 CN= 82.0

ANALYSIS PT. (BND2)
 Qpost= 11.65 CFS
 Qpost= 15.33 CFS

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

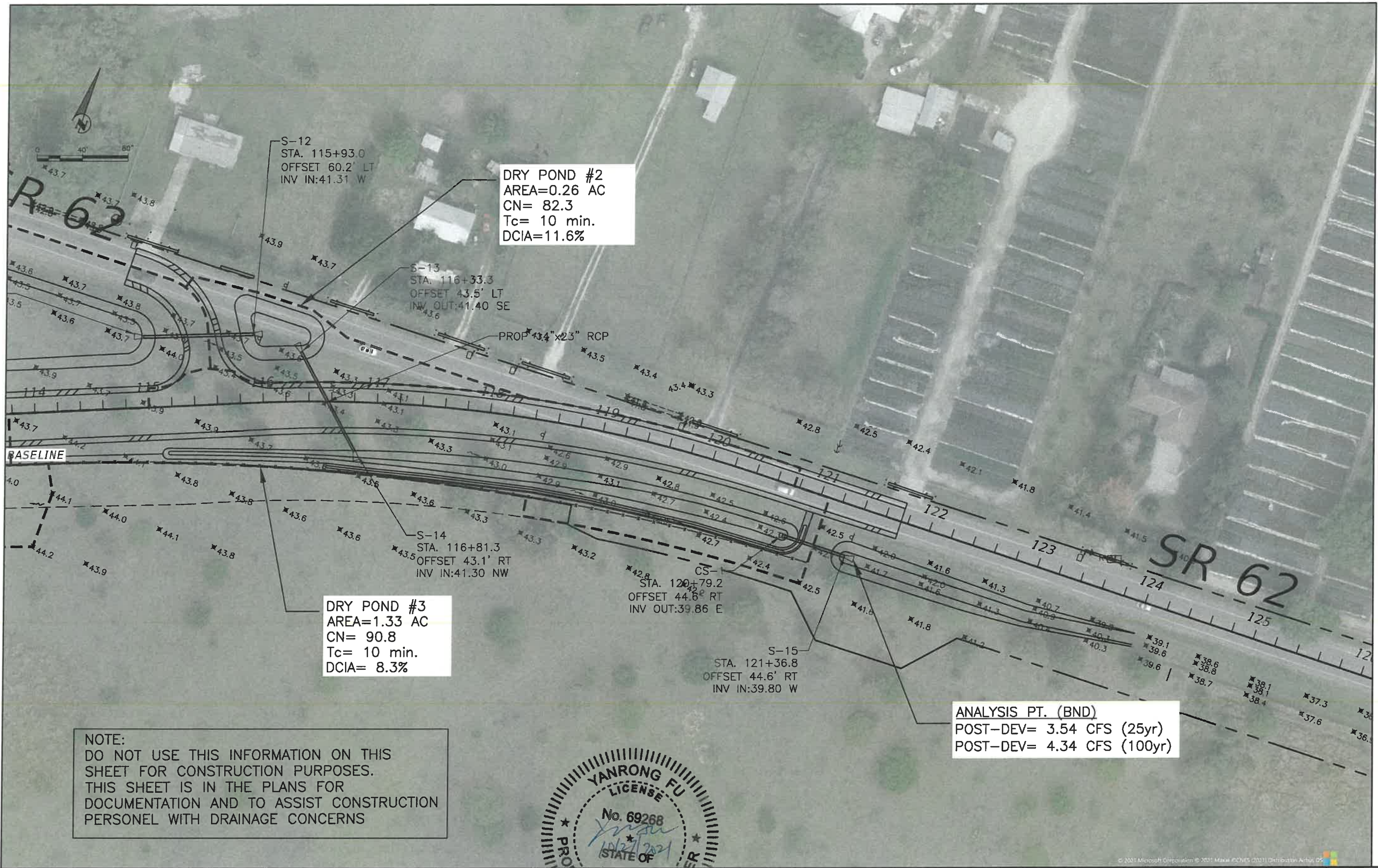


ERIE RD. AND SR 62 IMPROVEMENTS

DRAINAGE MAP

DATE	DESCRIPTION	DATE	PROJECT #	FDDT FPID #	SURVEYED	ZNS
			850-6094060	445308-1-58-01		01/2019
					DESIGNED	JP 01/2019
					DRAWN	JP 01/2019
					CHECKED	SF 08/2021

VERTICAL DATUM
 NGVD 1929
 SHEET NO.
 03



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

DRY POND #2
AREA=0.26 AC
CN= 82.3
Tc= 10 min.
DCIA=11.6%

DRY POND #3
AREA=1.33 AC
CN= 90.8
Tc= 10 min.
DCIA= 8.3%

ANALYSIS PT. (BND)
POST-DEV= 3.54 CFS (25yr)
POST-DEV= 4.34 CFS (100yr)

YANRONG FU
LICENSE FU
No. 69268
STATE OF FLORIDA
PROFESSIONAL ENGINEER
SIGNATURE AND DATE

Manatee County
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS
DRAINAGE MAP

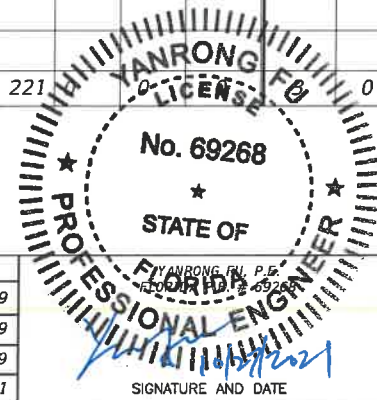
VERTICAL DATUM
NGVD 1929
SHEET NO.
04

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DATE	DESCRIPTION	DATE	FDOT FPID #	445308-1-58-01			
			PROJECT #	850-6094060	SURVEYED	ZNS	01/2019
			SURVEY #	N/A	DESIGNED	JP	01/2019
			SEC./TWN./RGE	35/33/19	DRAWN	JP	01/2019
			SCALE	NTS	CHECKED	SF	08/2021

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STR. No.	STATION	ALIGNMENT	SIDE	TYPE	STORM SEWER			CURB INLETS							MANHOLES			JUNCTION BOX	DBI			M.E.S-R.C.P.				REMARKS		
					RCP/ERC		PIPE	J-9	S-7	P-6	J-1	J-2	J-5	J-6	PARTIAL P-7	J-7	MODIFY		C	D	E	14"x23"		30"				
					18"	24"	12"x18"	<10	<10	<10	<10	<10	<10	<10	<10	<10			<10	<10	J-BOTT <10	C.D.	S.D.	C.D.	S.D.			
S-1	102+27.05	ERIE SR62	LT	INLET,PIPE	11		155																					
S-2	103+82.22	ERIE SR62	LT	INLET,PIPE			66																					
S-2	104+42.35	ERIE SR62	LT	INLET,PIPE																								
S-7	302+98.55	US 301	RT	INLET,PIPE	11									1														
S-8	303+32.81	US 301	RT	INLET,PIPE			24							1														
S-9	304+90.36	US 301	RT	INLET,PIPE	12									1														
S-11	111+97.67	ERIE SR62	LT	PIPE,MES	95																			1				
S-12	115+92.97	ERIE SR62	LT	MES																				1				
S-13	116+33.34	ERIE SR62	LT	PIPE,MES	99																			1				
S-14	116+81.30	ERIE SR62	RT	MES																				1				
CS1	120+79.21	ERIE SR62	RT	INLET, PIPE	58													1										
S-15	121+36.80	ERIE SR62	RT	MES																				1				
CB-1	303+00.10	US 301	RT	EXIST. INLET											1												CONVERT EXISTING INLET TO PARTIAL P-7	
CB-2	302+92.55	US 301	RT	EXIST. INLET											1												CONVERT EXISTING INLET TO PARTIAL P-7	
CB-4	303+22.36	US 301	RT	EXIST. INLET											1												CONVERT EXISTING INLET TO PARTIAL P-7	
CB-5	304+91.67	US 301	RT	EXIST. INLET											1												CONVERT EXISTING INLET TO PARTIAL P-7	
GI-13	306+73.44	US 301	RT	EXIST. INLET											1												CONVERT EXISTING INLET TO PARTIAL P-7	
SUB TOTAL					275	24	221												5			0	1	0	4	1	0	0



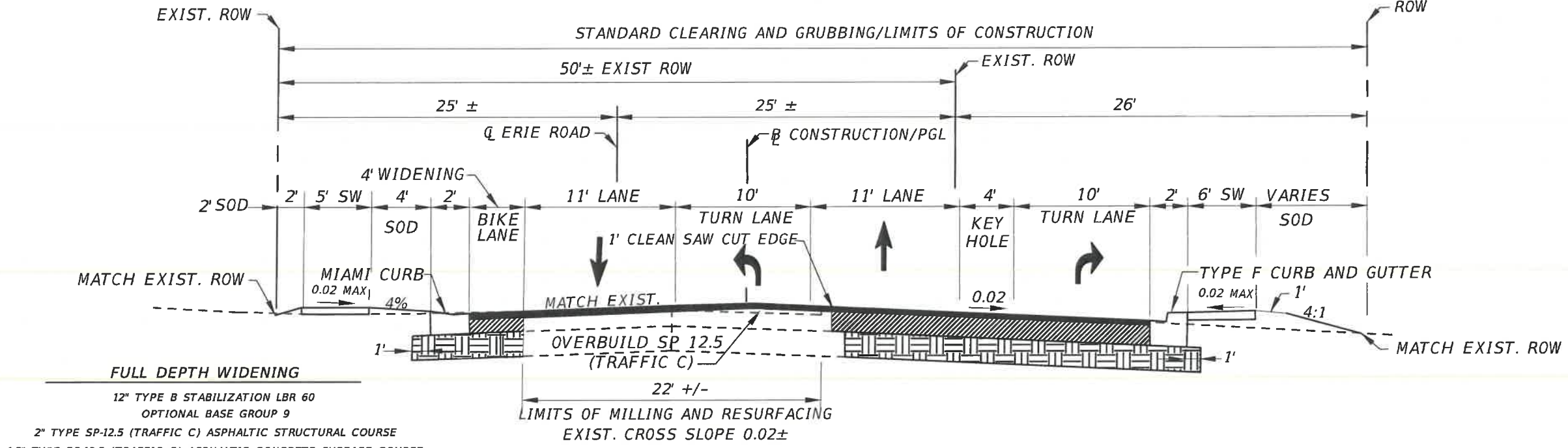
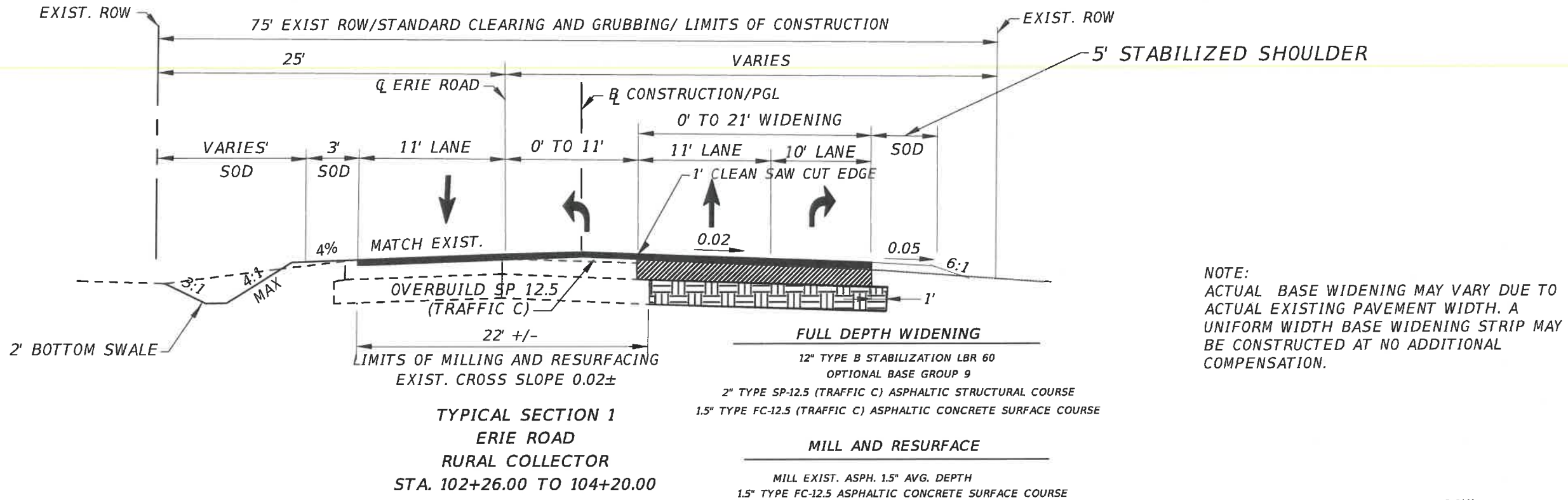
ERIE RD. AND SR 62 IMPROVEMENTS
SUMMARY OF DRAINAGE STRUCTURES
VERTICAL DATUM NGVD 1929
SHEET NO. 05

DATE	DESCRIPTION	DATE

FDOT FPID #	445308-1-58-01
PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	NTS

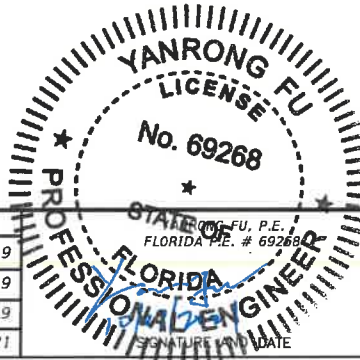
SURVEYED	ZNS	01/2019
DESIGNED	MCG	01/2019
DRAWN	MCG	01/2019
CHECKED	SF	08/2021

SIGNATURE AND DATE




TRAFFIC DATA (ERIE RD.)

CURRENT YEAR	= 2020 AADT = 3,100
ESTIMATED DESIGN YEAR	= 2040 AADT = 5,600
K=9.0% D=58% T=19% (24 HOUR)	
DESIGN SPEED = 30 MPH	



TYPICAL SECTION 2
ERIE ROAD
CURRENT RURAL COLLECTOR
STA. 104+20.00 TO 107+00.00



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

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DATE	DESCRIPTION	DATE	DATE	DATE

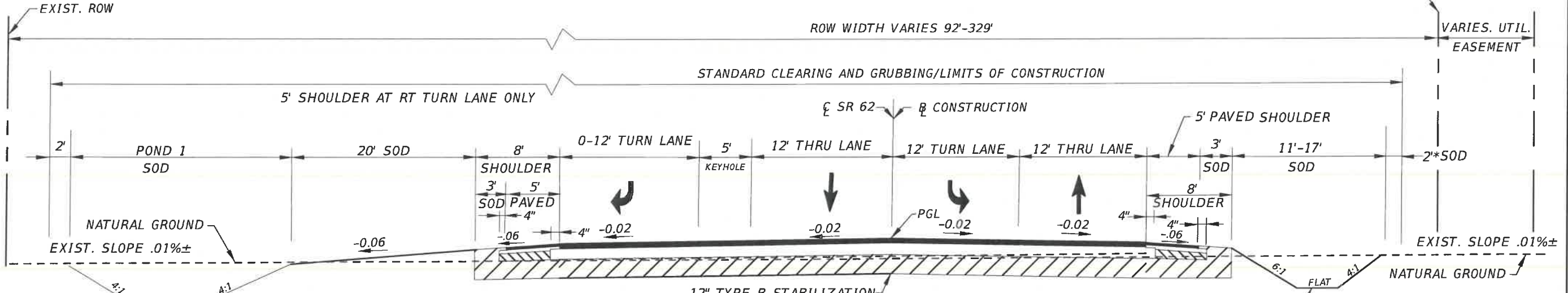
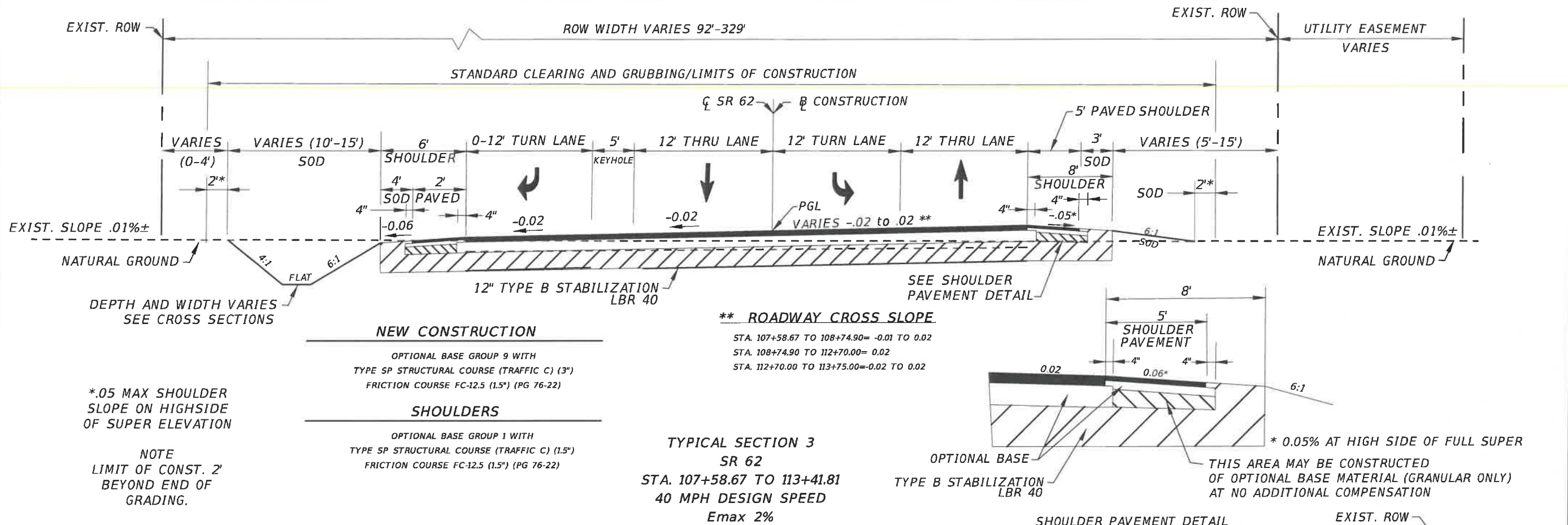
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PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	
SURVEYED	ZNS 01/2019
DESIGNED	MCG 01/2019
DRAWN	MCG 01/2019
CHECKED	SF 08/2021

ERIE RD. AND SR 62 IMPROVEMENTS

TYPICAL SECTIONS

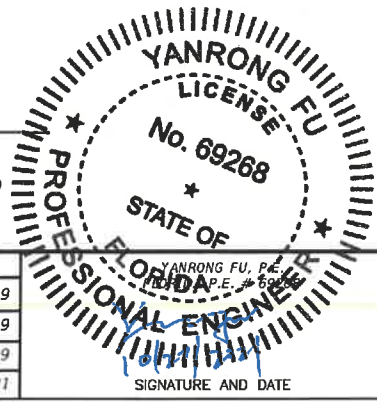
VERTICAL DATUM NGVD 1929

SHEET NO. 06



NEW CONSTRUCTION
 OPTIONAL BASE GROUP 9 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3")
 FRICTION COURSE FC-12.5 (1.5") (PG 76-22)

SHOULDER
 OPTIONAL BASE GROUP 1 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5")
 FRICTION COURSE FC-12.5 (1.5") (PG 76-22)



ERIE RD. AND SR 62 IMPROVEMENTS

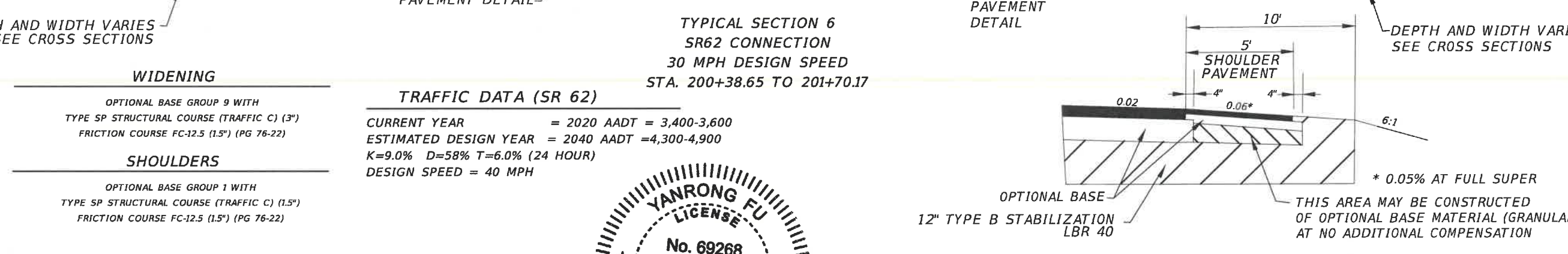
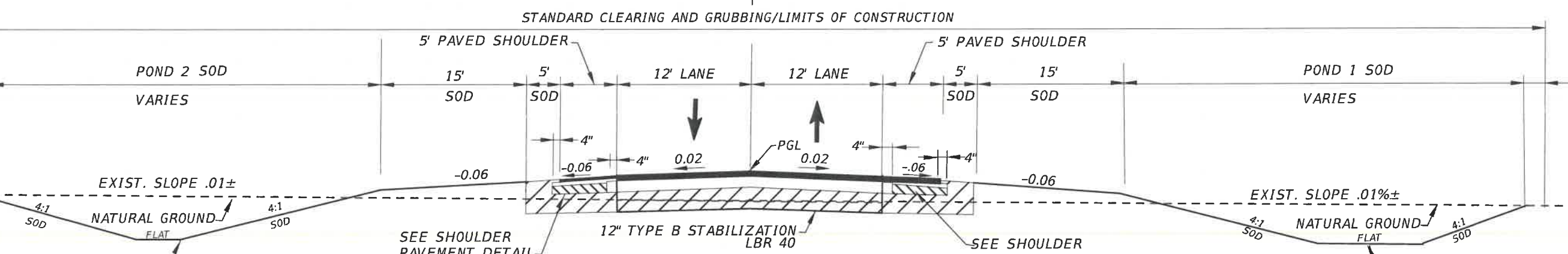
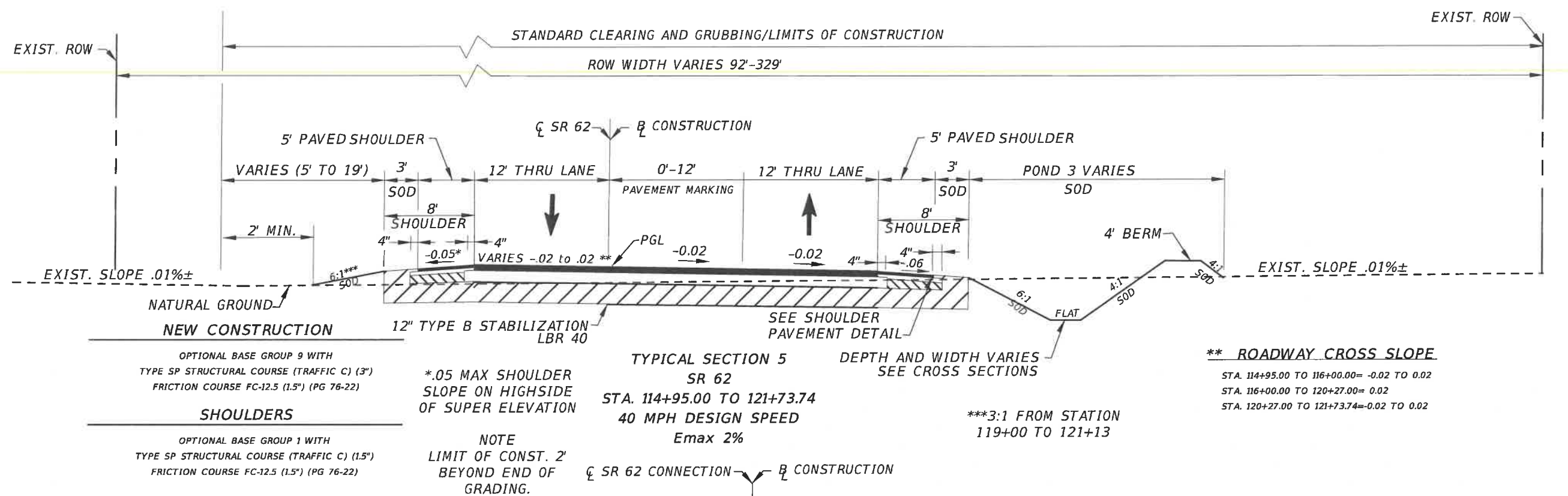
TYPICAL SECTIONS

VERTICAL DATUM NGVD 1929
SHEET NO. 07

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DATE	DESCRIPTION	DATE	DATE	DATE

FDOT FPID #	445308-1-58-01	SURVEYED	ZNS	01/2019
PROJECT #	850-6094060	DESIGNED	MCG	01/2019
SURVEY #	N/A	DRAWN	MCG	01/2019
SEC./TWN./RGE	35/33/19	CHECKED	SF	08/2021
SCALE				



SHOULDERS

OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3")
FRICTION COURSE FC-12.5 (1.5") (PG 76-22)

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5")
FRICTION COURSE FC-12.5 (1.5") (PG 76-22)

*.05 MAX SHOULDER
SLOPE ON HIGHSIDE
OF SUPER ELEVATION

NOTE
LIMIT OF CONST. 2'
BEYOND END OF
GRADING.

TYPICAL SECTION 5
SR 62
STA. 114+95.00 TO 121+73.74
40 MPH DESIGN SPEED
Emax 2%

**** ROADWAY CROSS SLOPE**

STA. 114+95.00 TO 116+00.00 = -0.02 TO 0.02
STA. 116+00.00 TO 120+27.00 = 0.02
STA. 120+27.00 TO 121+73.74 = -0.02 TO 0.02

WIDENING

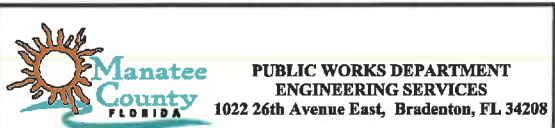
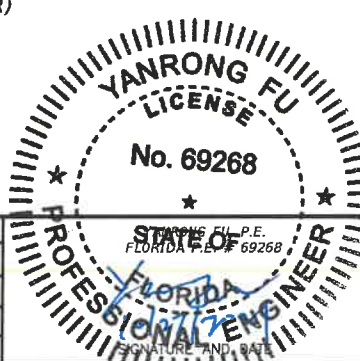
OPTIONAL BASE GROUP 9 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3")
FRICTION COURSE FC-12.5 (1.5") (PG 76-22)

SHOULDERS

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.5")
FRICTION COURSE FC-12.5 (1.5") (PG 76-22)

TRAFFIC DATA (SR 62)

CURRENT YEAR = 2020 AADT = 3,400-3,600
ESTIMATED DESIGN YEAR = 2040 AADT = 4,300-4,900
K=9.0% D=58% T=6.0% (24 HOUR)
DESIGN SPEED = 40 MPH



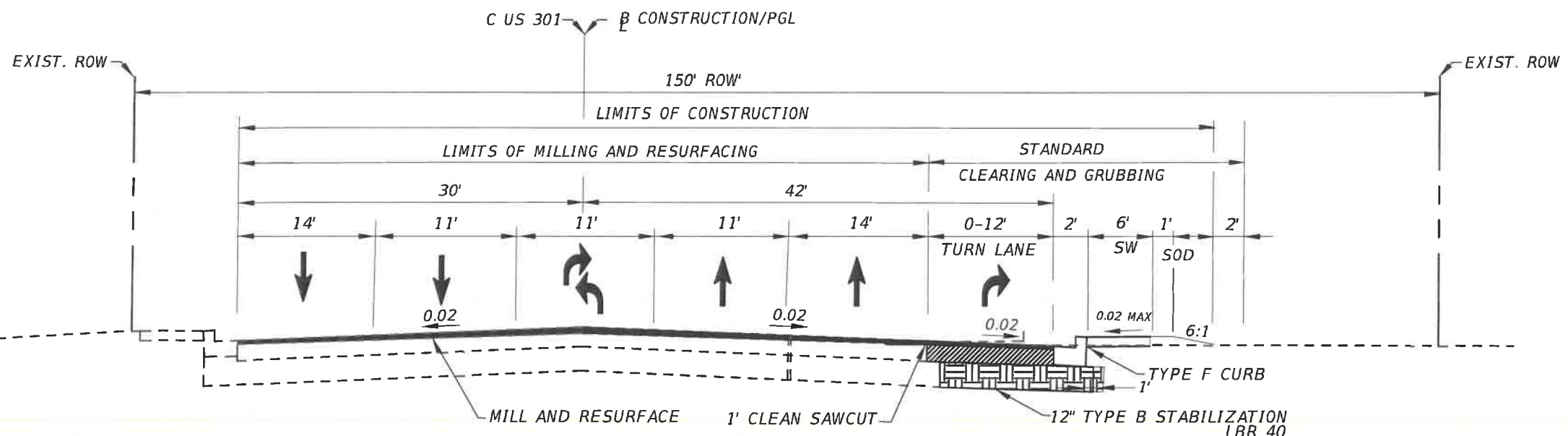
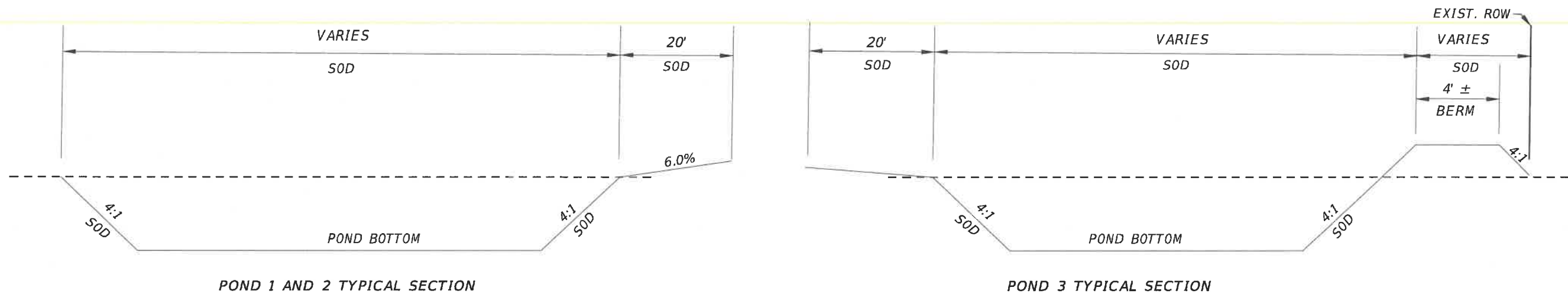
ERIE RD. AND SR 62 IMPROVEMENTS

TYPICAL SECTIONS

VERTICAL
DATUM
NGVD 1929

SHEET NO.
08

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TRAFFIC DATA (US 301)

CURRENT YEAR = 2016 AADT = 8,900-9,100
 ESTIMATED DESIGN YEAR = 2040 AADT = 16,400-17,000
 K=9.0% D=58% T=11% (24 HOUR)
 DESIGN SPEED = 45 MPH

**TYPICAL SECTION 7
US 301**

MILL, RESURFACE, AND TURN LANE: STA. 302+27 TO 305+62
 MILL AND RESURFACE ONLY: STA 305.62 TO 309+89

WIDENING

OPTIONAL BASE GROUP 9 WITH
 TYPE SP STRUCTURAL COURSE (TRAFFIC C) (3")
 FRICTION COURSE FC-12.5 (1.5") (PG 76-22)

MILL AND RESURFACE

MILL EXIST. ASPH. 1.5" AVG. DEPTH
 FRICTION COURSE FC-12.5 (1.5") (PG 76-22)

NOTE:
 ACTUAL BASE WIDENING MAY VARY DUE TO
 ACTUAL EXISTING PAVEMENT WIDTH. A
 UNIFORM WIDTH BASE WIDENING STRIP MAY
 BE CONSTRUCTED AT NO ADDITIONAL
 COMPENSATION.



ERIE RD. AND SR 62 IMPROVEMENTS

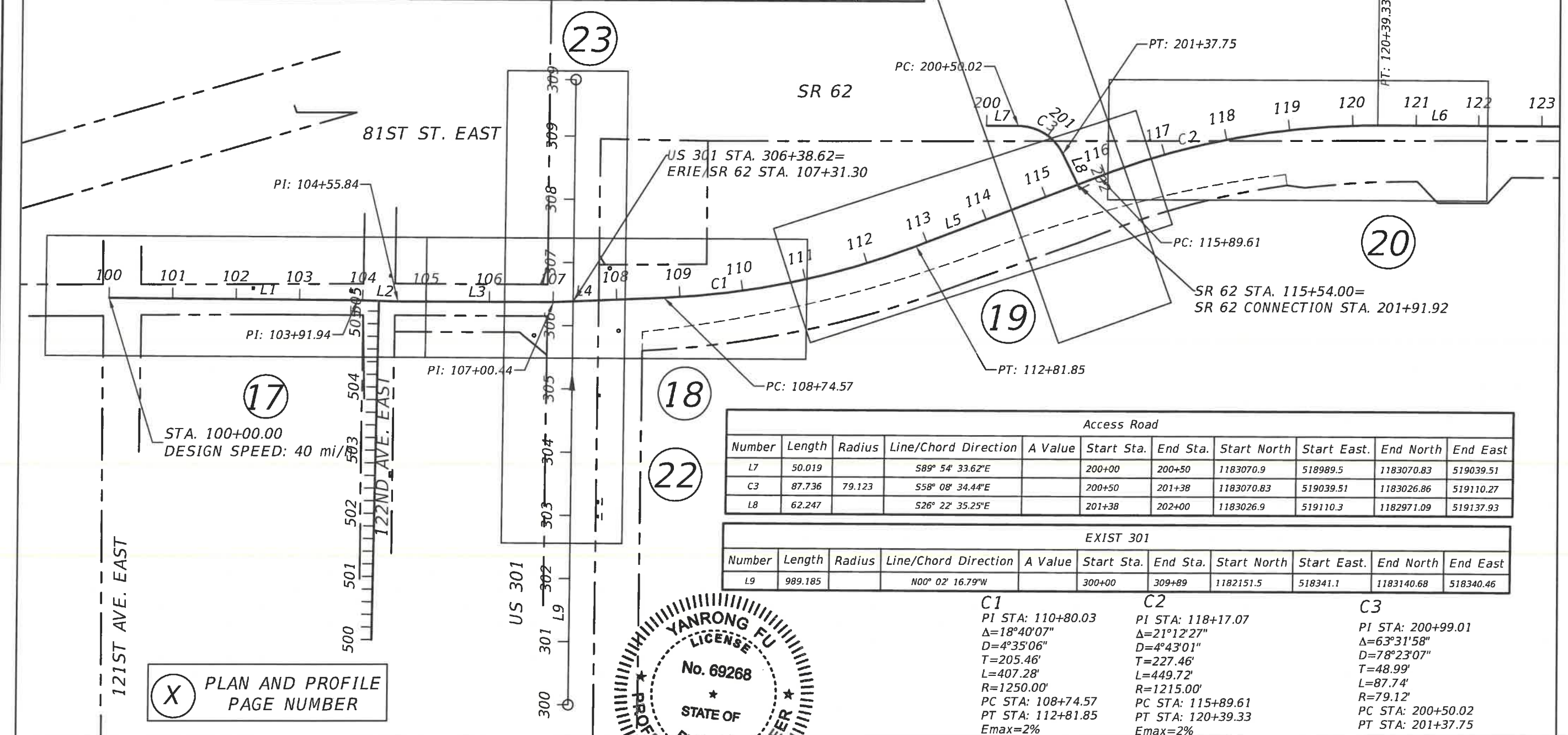
TYPICAL SECTIONS

VERTICAL DATUM NGVD 1929
 SHEET NO. 09

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DATE	DESCRIPTION	DATE	FDOT FPID #			
			445308-1-58-01			
			PROJECT #	850-6094060	SURVEYED	ZNS 01/2019
			SURVEY #	N/A	DESIGNED	MCG 01/2019
			SEC./TWN./RGE	35/33/19	DRAWN	MCG 01/2019
			SCALE		CHECKED	SF 08/2021

Erie sr 62 Proposed										
Number	Length	Radius	Line/Chord Direction	A Value	Start Sta.	End Sta.	Start North	Start East.	End North	End East
L1	391.945		S89° 46' 16.53"E		100+00	103+92	1182791.7	517609.4	1182790.16	518001.39
L2	63.899		S88° 21' 41.94"E		103+92	104+56	1182790.2	518001.4	1182788.33	518065.26
L3	244.599		N89° 54' 13.78"E		104+56	107+00	1182788.3	518065.3	1182788.74	518309.86
L4	174.124		N87° 27' 39.80"E		107+00	108+75	1182788.7	518309.9	1182796.46	518483.81
C1	407.284	1250.000	N78° 07' 36.44"E		108+75	112+82	1182796.46	518483.81	1182879.88	518880.62
L5	307.760		N68° 47' 33.09"E		112+82	115+90	1182879.9	518880.6	1182991.21	519167.54
C2	449.720	1215.000	N79° 23' 46.54"E		115+90	120+39	1182991.21	519167.54	1183073.50	519607.06
L6	841.587		N90° 00' 00.00"E		120+39	128+81	1183073.5	519607.1	1183073.50	520448.65



Access Road										
Number	Length	Radius	Line/Chord Direction	A Value	Start Sta.	End Sta.	Start North	Start East.	End North	End East
L7	50.019		S89° 54' 33.62"E		200+00	200+50	1183070.9	518989.5	1183070.83	519039.51
C3	87.736	79.123	S58° 08' 34.44"E		200+50	201+38	1183070.83	519039.51	1183026.86	519110.27
L8	62.247		S26° 22' 35.25"E		201+38	202+00	1183026.9	519110.3	1182971.09	519137.93

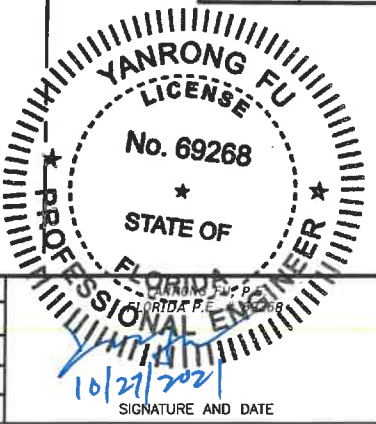
EXIST 301										
Number	Length	Radius	Line/Chord Direction	A Value	Start Sta.	End Sta.	Start North	Start East.	End North	End East
L9	989.185		N00° 02' 16.79"W		300+00	309+89	1182151.5	518341.1	1183140.68	518340.46

C1
 PI STA: 110+80.03
 $\Delta=18^{\circ}40'07''$
 $D=4^{\circ}35'06''$
 $T=205.46'$
 $L=407.28'$
 $R=1250.00'$
 PC STA: 108+74.57
 PT STA: 112+81.85
 $E_{max}=2\%$

C2
 PI STA: 118+17.07
 $\Delta=21^{\circ}12'27''$
 $D=4^{\circ}43'01''$
 $T=227.46'$
 $L=449.72'$
 $R=1215.00'$
 PC STA: 115+89.61
 PT STA: 120+39.33
 $E_{max}=2\%$

C3
 PI STA: 200+99.01
 $\Delta=63^{\circ}31'58''$
 $D=78^{\circ}23'07''$
 $T=48.99'$
 $L=87.74'$
 $R=79.12'$
 PC STA: 200+50.02
 PT STA: 201+37.75

(X) PLAN AND PROFILE
 PAGE NUMBER



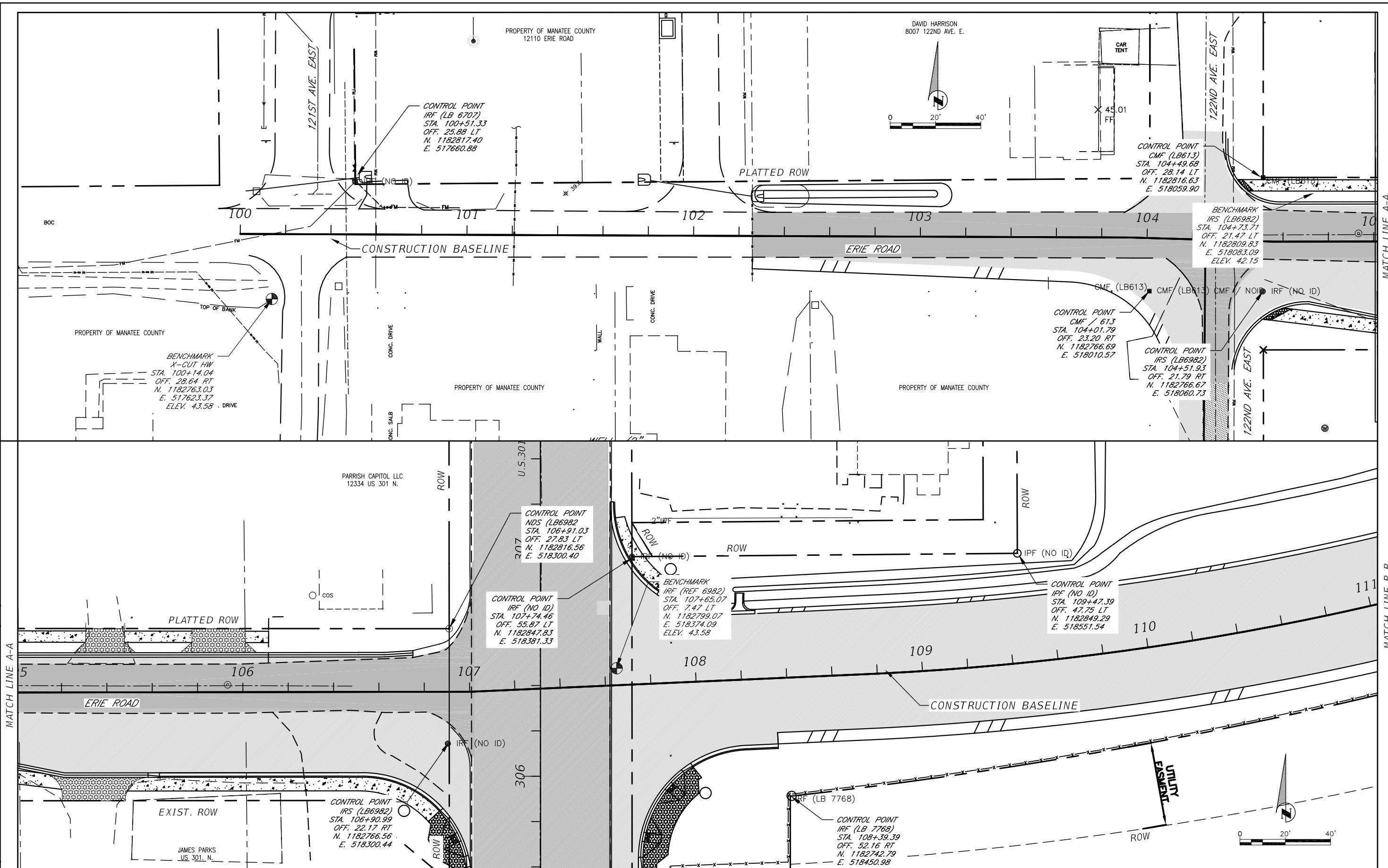
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DATE	DESCRIPTION	DATE
	FDOT FPID # 445308-1-58-01	
	PROJECT # 850-6094060 SURVEYED ZNS 01/2019	
	SURVEY # N/A DESIGNED MCG 01/2019	
	SEC./TWN./RGE 35/33/19 DRAWN MCG 01/2019	
	SCALE CHECKED SF 08/2021	

Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS
 BASELINE_PROJECT LAYOUT PLAN
 VERTICAL DATUM NGVD 1929
 SHEET NO. 10

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DATE	DESCRIPTION	DATE

FDOT FPID #	445308-1-58-01
PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	
SURVEYED	ZNS 01/2019
DESIGNED	MCG 01/2019
DRAWN	MCG 01/2019
CHECKED	SF 08/2021

YANRONG FU, P.E.
FLORIDA P.E. # 69268

SIGNATURE AND DATE

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

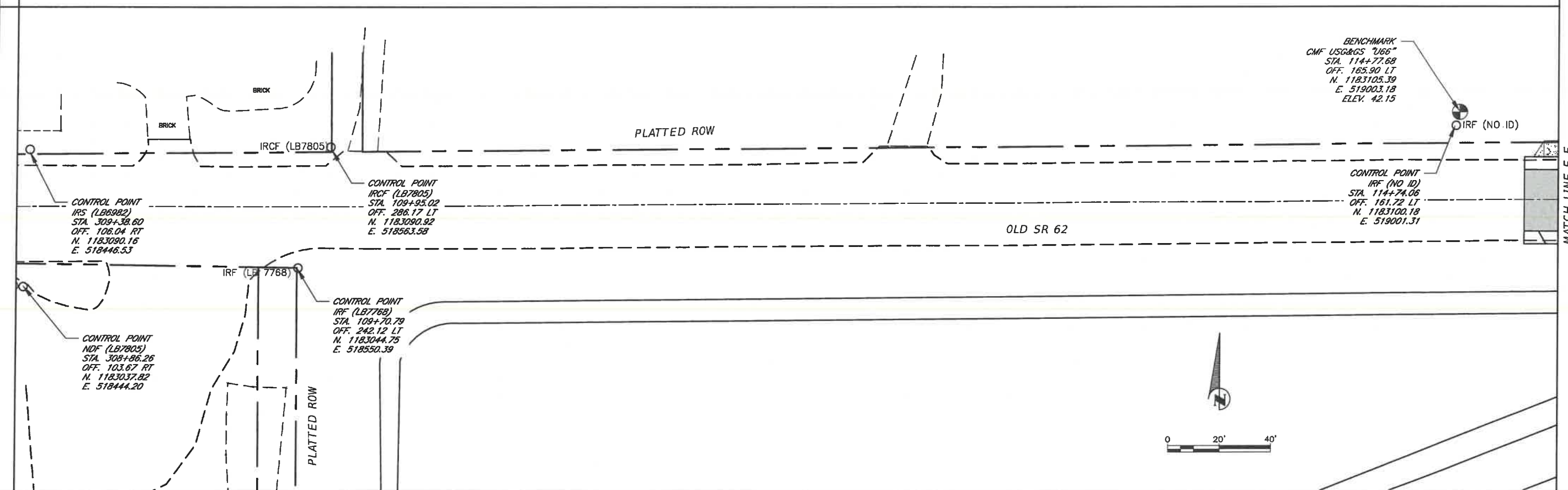
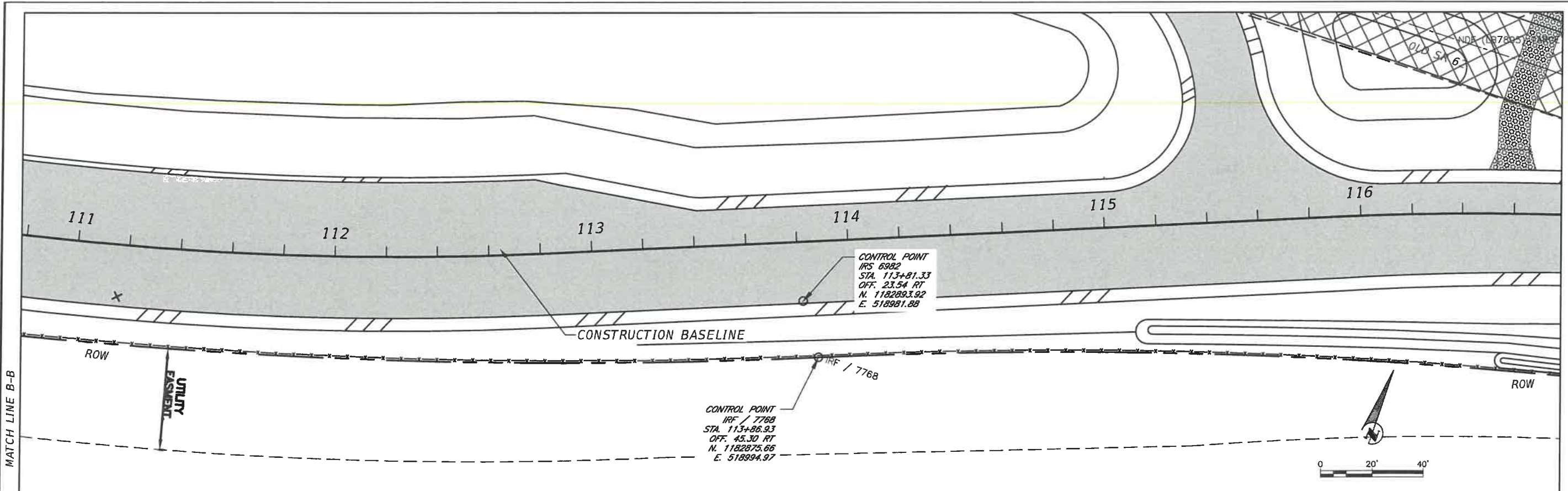
ERIE RD. AND SR 62 IMPROVEMENTS


HORIZONTAL AND VERTICAL CONTROL

VERTICAL DATUM
NGVD 1929

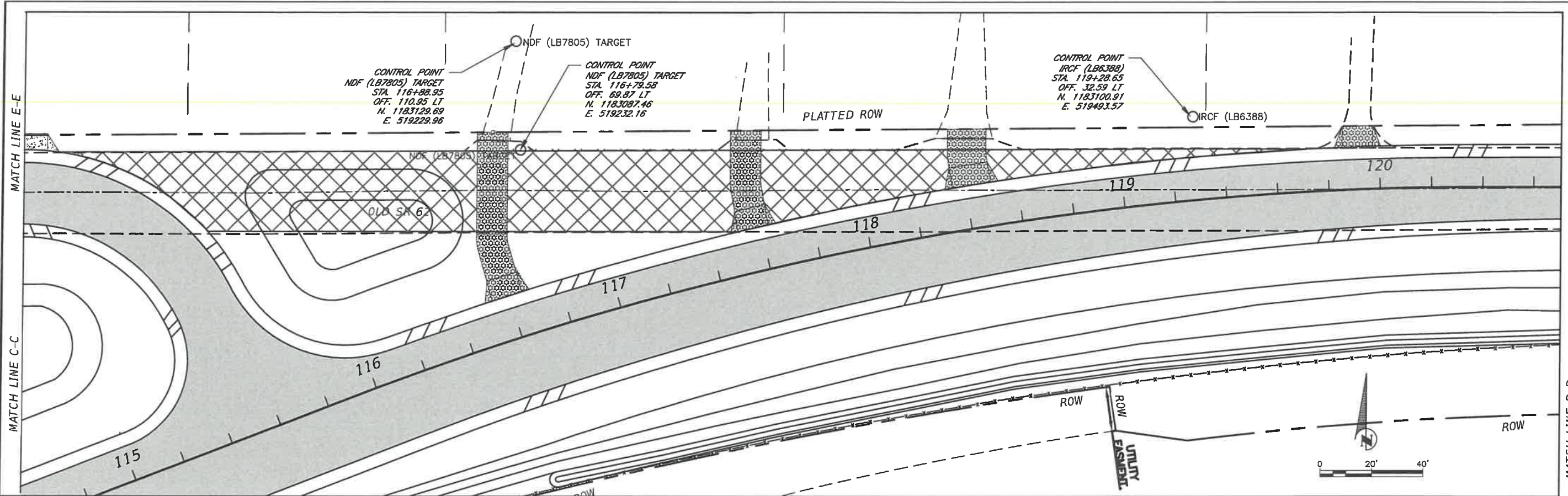
SHEET NO.
11

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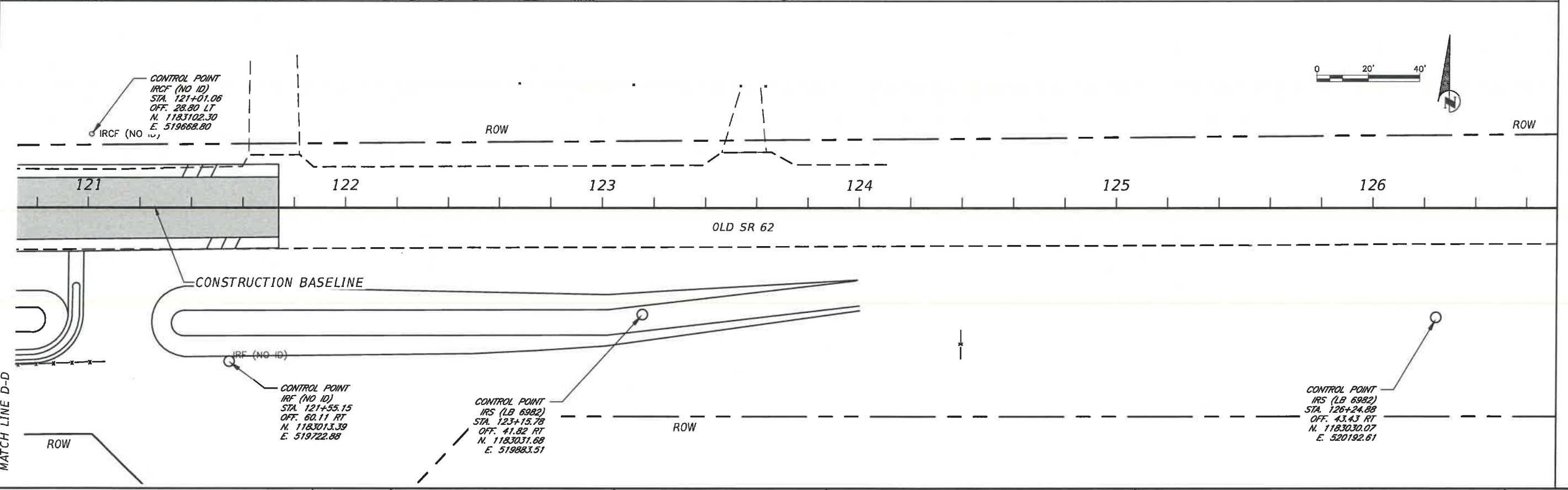


DATE		DESCRIPTION		DATE		FDOT FPID # 445308-1-58-01		YANRONG FU, P.E. FLORIDA P.E. # 69268		 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208		ERIE RD. AND SR 62 IMPROVEMENTS HORIZONTAL AND VERTICAL CONTROL		VERTICAL DATUM NGVD 1929	
						PROJECT # 850-6094060	SURVEYED	ZNS	01/2019					SHEET NO. 12	
						SURVEY # N/A	DESIGNED	MCG	01/2019						
						SEC./TWN./RGE 35/33/19	DRAWN	MCG	01/2019						
						SCALE	CHECKED	SF	08/2021	SIGNATURE AND DATE					


MATCH LINE E-E
MATCH LINE C-C



MATCH LINE D-D



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DATE		DESCRIPTION		DATE		FDOT FPID #	445308-1-58-01			YANRONG FU, P.E. FLORIDA P.E. # 69268		 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	ERIE RD. AND SR 62 IMPROVEMENTS		VERTICAL DATUM
						PROJECT #	850-6094060	SURVEYED	ZNS	01/2019	HORIZONTAL AND VERTICAL CONTROL		NGVD 1929		
						SURVEY #	N/A	DESIGNED	MCG	01/2019			SHEET NO.		
						SEC./TWN./RGE	35/33/19	DRAWN	MCG	01/2019			13		
						SCALE		CHECKED	SF	08/2021	SIGNATURE AND DATE				

GENERAL

- ALL CONSTRUCTION ACTIVITIES SHALL BE COORDINATED WITH THE PROJECT MANAGEMENT DIVISION. THE PROJECT MANAGER IS: MICHAEL STURM, P.E., PHONE (941) 708-7450; EXT. 7332.
- SITE VISITS ARE MANDATORY FOR ALL BIDDERS. THESE SITE VISITS CAN BE ARRANGED THROUGH THE PROJECT MANAGER.
- ALL CONSTRUCTION ON THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF MANATEE COUNTY UTILITY AND TRANSPORTATION STANDARDS AND/OR FDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" UNLESS OTHERWISE INDICATED ON THE PLANS.
- VERTICAL CONTROL FOR THIS PROJECT WAS ESTABLISHED BY A MINIMUM OF TWO REFERENCE BENCHMARKS DESCRIBED ON THE "THE NATIONAL GEODETIC VERTICAL DATUM OF 1929", (NGVD '29).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING ALL CONDITIONS AND REQUIREMENTS OF ALL PERMITS AND ALL GOVERNING FEDERAL, STATE, AND LOCAL AGENCIES. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL REQUIRED PERMITS THAT ARE NOT PROVIDED IN THE BID DOCUMENTS, AT NO ADDITIONAL COST TO THE OWNER.
- THE INFORMATION PROVIDED IN THESE PLANS IS SOLELY TO ASSIST THE CONTRACTOR IN ASSESSING THE NATURE AND EXTENT OF THE CONDITIONS WHICH MAY BE ENCOUNTERED DURING THE COURSE OF WORK. ALL CONTRACTORS ARE DIRECTED, PRIOR TO BIDDING, TO CONDUCT WHATEVER INVESTIGATION THEY MAY DEEM NECESSARY TO ARRIVE AT THEIR OWN CONCLUSIONS REGARDING THE ACTUAL CONDITIONS THAT WILL BE ENCOUNTERED, AND UPON WHICH THEIR BIDS WILL BE BASED.
- THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS ON THE PLANS AND REVIEW ALL FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. SHOULD DISCREPANCIES OCCUR, THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO OBTAIN THE ENGINEER'S CLARIFICATION BEFORE COMMENCING WITH CONSTRUCTION.
- AT LEAST 2 BUSINESS DAYS PRIOR TO ANY EXCAVATION, CONTACT SUNSHINE STATE ONE CALL OF FLORIDA AT 1-800-432-4770 OR THE NATIONAL 811 ONE CALL NUMBER WHEN APPLICABLE FOR UTILITY LOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITIES FOR THE POSSIBLE RELOCATION OR THE TEMPORARY MOVEMENT OF ANY EXISTING UTILITIES WITHIN THE RIGHTS-OF-WAY.
- ALL STATIONS AND OFFSETS REFER TO BASELINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
- THE CONSTRUCTION LENGTHS IN THESE PLANS ARE APPROXIMATE. ACTUAL LIMITS MAY BE SET IN THE FIELD AS DIRECTED BY THE ENGINEER.
- SEPARATE PAYMENT SHALL BE MADE ONLY FOR THE ITEMS OF WORK LISTED AND IDENTIFIED BY APPROPRIATE PAY ITEM ON THE BID FORM. THE COST OF ANY RELATED WORK NOT SPECIFICALLY IDENTIFIED, BUT WHICH IS REQUIRED FOR SATISFACTORY COMPLETION OF THE WORK, SHALL BE CONSIDERED TO BE INCLUDED IN THE CONTRACT PRICE FOR THE APPROPRIATE BID ITEM.
- THE CONTRACTOR SHALL HAVE A FOREMAN, OR RESPONSIBLE PARTY, ON SITE AT ALL TIMES WHEN WORK IS BEING PERFORMED. ALL WORKERS ON THE JOB SITE WILL BE COURTEOUS TO THE PUBLIC AT ALL TIMES, AND SHALL REFER ANY QUESTIONS OR CONCERNS TO THE CONTRACTOR'S FOREMAN OR THE COUNTY INSPECTOR. THE FOREMAN SHALL SPEAK AND UNDERSTAND ENGLISH AND SHALL BE AVAILABLE AT ALL TIMES FOR TIMELY RESOLUTION OF PROJECT-RELATED ISSUES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE COORDINATION OF CONSTRUCTION SCHEDULING BETWEEN CONTRACTOR AND ALL UTILITY AGENCIES.
NOTE:
THIS INCLUDES MEETING WITH UTILITY AGENCIES PRIOR TO THE PRE-CONSTRUCTION CONFERENCE TO ADJUST THEIR SCHEDULES TO COINCIDE WITH THE CONTRACTORS CONSTRUCTION SCHEDULE. (REFERENCE CONTRACT DOCUMENTS)
- ANY DAMAGE TO STATE, COUNTY, OR LOCAL ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTORY OF THE COUNTY PROJECT MANAGER. PAYMENT SHALL NOT BE MADE FOR THIS WORK.
- ALL CONSTRUCTION WITHIN FDOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH CURRENT FDOT STANDARD SPECIFICATIONS FOR ROADWAY CONSTRUCTION AND THE STANDARD PLANS.
- ALL SIGNING, STRIPING AND RPM PLACEMENT WITHIN THE FDOT RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH FDOT STANDARD INDEX 711-001.
- ALL INLET GRATES, MANHOLE FRAMES, RINGS, AND COVERS ARE TO BE GALVANIZED.
- ERIE ROAD TO BE CONSTRUCTED IN ACCORDANCE TO MANATEE COUNTY PUBLIC WORKS STANDARDS.

SAFETY

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE FLORIDA TRENCH SAFETY ACT, 90-96, LAWS OF FLORIDA EFFECTIVE OCTOBER 1, 1990 AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION EXCAVATION SAFETY STANDARDS, 29 CFR 1926.650, SUBPART P, AS AMENDED. THE CONTRACTOR SHALL INCLUDE IN THE TOTAL BID PRICE ALL COSTS FOR COMPLIANCE WITH THESE REGULATIONS.
- THE CONTRACTOR SHALL USE SHEET PILING, SHEETING, BRACING, ETC., AS REQUIRED IN ALL EXCAVATION AREAS AND CONFORM TO ALL OSHA REQUIREMENTS.
- THE CONTRACTOR SHALL USE ALL NECESSARY SAFETY PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND UTILITIES, POWER LINES, ETC.
- THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. THIS EXCLUSION DOES NOT ALLEVIATE THE CONTRACTOR FOR PROVIDING A CONTINUOUS SAFE WORKSPACE.

ENVIRONMENTAL

- CONTRACTOR IS RESPONSIBLE FOR INSTALLATION ALL SEDIMENT AND EROSION CONTROL (SEC) DEVICES (E.G., BARRIERS, SEDIMENT TRAPS/BASINS, VEGETATIVE BUFFERS, ETC.) AS SPECIFIED IN THE FINAL APPROVED PLANS FOR THE PROJECT. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL SEC DEVICES UTILIZED DURING THE PROJECT, AS WELL AS INSTALLATION & MAINTENANCE OF ANY ADDITIONAL MEASURES DEEMED NECESSARY DURING PROJECT IMPLEMENTATION, TO PREVENT EROSION AND OFF-SITE SEDIMENT MIGRATION. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF ALL SEC DEVICES UPON COMPLETION OF THE PROJECT, AND UPON ADEQUATE STABILIZATION OF DISTURBED SOILS.
- WHEN A BENTONITE SPILL OR FRACK-OUT OCCURS OR THERE IS A LOSS OF RETURN INDICATING EXCESSIVE SEEPAGE OR LOSS OF DRILLING FLUID, DRILLING MUST BE STOPPED UNTIL THE LOCATION OF THE SPILL IS IDENTIFIED. UNDER NO CIRCUMSTANCES WILL DRILLING CONTINUE WHEN A SPILL IS APPARENT.
- ONCE LOCATED, THE BENTONITE SPILL MUST BE ISOLATED AND SEEPAGE INTO ANY NEARBY WATER BODIES WILL BE BLOCKED DEPENDING ON THE DEGREE OF THE SPILL, THE ISOLATED BENTONITE MUST BE REMOVED MANUALLY OR MECHANICALLY AND DISPOSED OF BY APPROPRIATE MEANS OR REUSED.
- THE CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY STORM WATER, EROSION, AND SEDIMENTATION CONTROL MEASURES IN ACCORDANCE WITH THE FDEP "FLORIDA STORM WATER, EROSION AND SEDIMENTATION CONTROL INSPECTOR'S MANUAL". IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTROL AND PREVENT EROSION AND TRANSPORT OF SEDIMENT TO SURFACE DRAINS AND TO DITCHES DURING CONSTRUCTION.
- STOCKPILES SHALL BE PROTECTED AT ALL TIMES BY ON-SITE DRAINAGE CONTROLS WHICH PREVENT EROSION OF THE STOCKPILED MATERIAL. CONTROL OF DUST FROM SUCH STOCKPILES IS REQUIRED, DEPENDING UPON THEIR LOCATION AND THE EXPECTED LENGTH OF TIME THE STOCKPILES WILL BE PRESENT. IN NO CASE SHALL ANY STOCKPILED MATERIAL REMAIN AFTER THIRTY (30) CALENDAR DAYS.
- STORM WATER INLETS IN THE VICINITY OF THE PROJECT SHALL BE PROTECTED BY SEDIMENT TRAPS SUCH AS SECURED HAY BALES, SOD, STONES, ETC., WHICH SHALL BE MAINTAINED AND MODIFIED BY CONSTRUCTION ACTIVITIES, AND WHICH MUST BE APPROVED BY THE ENGINEER BEFORE INSTALLATION. THIS WILL BE MAINTAINED TO PREVENT DEGRADATION OF THE WATERS OF THE COUNTY AND STATE.
- SEDIMENT BASINS AND TRAPS, PERIMETER BERMS, SEDIMENT BARRIERS, VEGETATIVE BUFFERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT AND/OR PREVENT THE TRANSPORT OF SEDIMENT ONTO ADJACENT PROPERTIES, OR INTO EXISTING BODIES OF WATER, MUST BE INSTALLED, CONSTRUCTED, OR IN THE CASE OF VEGETATIVE BUFFERS, PROTECTED FROM DISTURBANCE, AS A FIRST STEP IN THE LAND ALTERATION PROCESS. SUCH SYSTEMS SHALL BE FULLY OPERATIVE BEFORE ANY OTHER DISTURBANCE OF THE SITE BEGINS. EARTHEN STRUCTURES INCLUDING BUT NOT LIMITED TO BERMS, EARTH FILTERS, DAMS OR DIKES SHALL BE STABILIZED AND PROTECTED FROM DRAINAGE DAMAGE OR EROSION WITHIN ONE (1) WEEK OF INSTALLATION.

- ALL SWALES, DITCHES, AND CHANNELS LEADING FROM THE SITE SHALL BE PROTECTED FROM SILTATION AND EROSION DURING CONSTRUCTION AND BE SODDED WITHIN THREE (3) DAYS OF EXCAVATION.
- SOIL DISPLACED BY CONSTRUCTION WILL BE REMOVED. EROSION CONTROL SHALL BE IMPLEMENTED IN AREAS WHICH ARE CONSIDERED ENVIRONMENTALLY SENSITIVE. EROSION CONTROL SYSTEMS SHALL BE REQUIRED FOR ALL WORK WITHIN JURISDICTIONAL AREAS. THESE SYSTEMS MAY INCLUDE STAKED HAY BALES, SILT SCREENS, FILTER FABRIC, AND TURBIDITY SCREENS.
- ALL EROSION AND POLLUTION CONTROL DEVICES SHALL BE CHECKED REGULARLY, ESPECIALLY AFTER EACH RAINFALL AND SHALL BE CLEANED OUT AND/OR REPAIRED AS REQUIRED.
- THE CONTRACTOR SHALL NOT ENTER UPON OR IN ANY WAY ALTER WETLAND AREAS THAT MAY BE ON OR NEAR THE CONSTRUCTION SITE. ALL WORK IN THE VICINITY OF OPEN WATER AND/OR WETLANDS IS TO BE PERFORMED IN COMPLIANCE WITH THE ENVIRONMENTAL REGULATIONS AND/OR PERMITS FOR THE SITE. THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY FINES RESULTING FROM HIS VIOLATION OF ANY REGULATIONS OR PERMIT CONDITIONS.
- FOR MORE INFORMATION, SEE THE EROSION CONTROL DETAIL SHEET INCLUDED IN THE PLANS.

RIGHT-OF-WAY

- ALL CONSTRUCTION ACTIVITIES SHALL BE LIMITED TO WITHIN THE MANATEE COUNTY/FDOT RIGHT-OF-WAY AND/OR EASEMENTS SHOWN ON THE DRAWINGS.
- THE CONTRACTOR SHALL EMPLOY A LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA TO REFERENCE AND RESTORE PROPERTY CORNER MONUMENTS, PINS, AND LANDMARKS THAT MAY BE DISTURBED BY CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR, PRIOR TO CONSTRUCTION AND RESTRICTING ANY TRAFFIC, MUST OBTAIN A RIGHTS-OF-WAY USE PERMIT AND A TRAFFIC CONTROL PLAN. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS FROM OTHER GOVERNMENTAL AGENCIES HAVING RELEVANT JURISDICTION. ALL MAINTENANCE AND PROTECTION OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE APPLICABLE REQUIREMENTS OF THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD). A TRAFFIC CONTROL PLAN SHALL BE SUPPLIED BY THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL DAMAGED STORM WATER STRUCTURES, PIPING, ENTRANCE PIPE AND HEADWALLS, THAT ARE TO REMAIN, WHETHER SHOWN ON THE PLANS OR NOT.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ESTABLISH IN THE FIELD THE RIGHT-OF-WAY LINES, BASE LINES, BENCH MARKS (ELEV.), CENTER LINES, AND STATIONING AS REQUIRED TO CONSTRUCT THIS PROJECT. ROADWAY PLANS AND PROPOSED DESIGN ARE BASED ON TOPOGRAPHIC SURVEYS PROVIDED BY MANATEE COUNTY PROJECT MANAGEMENT AND ZOLLAR NAJJAR & SHROYER UNDER COUNTY PROJECT NO'S 334-6001060 AND 319-6045661. REFER TO THE ORIGINAL SIGNED AND SEALED SURVEY CONTROL SHEETS IN THE PROJECT FILE.
- THE CONTRACTOR SHALL COORDINATE THE CUTTING OF DRIVEWAYS WITH THE PROPERTY OWNER PRIOR TO CUT. ALL DRIVEWAYS WILL BE IN PASSABLE CONDITION AT THE END OF THE WORK DAY AND FULLY RESTORED PER PLAN. THE CONTRACTOR SHALL COORDINATE WITH THE AFFECTED UTILITY COMPANY FOR THE ADJUSTMENT OF ANY EXISTING UTILITIES AND STRUCTURES IN ORDER TO MATCH THE PROPOSED ELEVATIONS AND ALIGNMENTS.
- A RIGHT OF ENTRY AGREEMENT SHALL BE OBTAINED BY THE PROJECT MANAGER FROM THE PROPERTY OWNER BEFORE ANY DRIVEWAY CONSTRUCTION WORK IS DONE OUTSIDE OF THE RIGHT-OF-WAY OR EASEMENT.

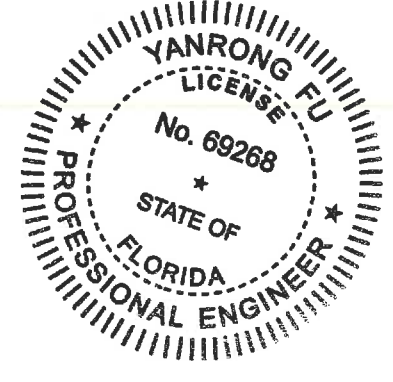
DRAINAGE AND GRADING

- ALL CONSTRUCTION IS TO BE STAKED IN THE FIELD BY OR UNDER THE SUPERVISION OF A FLORIDA REGISTERED LAND SURVEYOR.
- THE CONTRACTOR IS TO PROVIDE THE ENGINEER OF RECORD WITH REPRODUCIBLE RECORD DRAWINGS SHOWING ALL IMPROVEMENT LOCATIONS AND ELEVATIONS IN ACCORDANCE WITH LATEST MANATEE COUNTY TRANSPORTATION DEPARTMENT STANDARDS MANUAL AND SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) STANDARDS. THE CONTRACTOR SHALL ALSO PROVIDE FIVE SETS OF PRINTS, SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR, OF THE RECORD DRAWINGS TO THE ENGINEER OF RECORD. THESE RECORD DRAWINGS SHALL BE CERTIFIED TO THE OWNER, APPROPRIATE GOVERNMENTAL AGENCIES. RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE STORMWATER FACILITY LOCATIONS, INCLUDING TOP OF BANK, UNDERDRAIN AND CONTROL STRUCTURES, SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. BENCH MARKS WITH THE ELEVATION CLEARLY AND PERMANENTLY MARKED ARE TO BE PLACED ON THE TOP OF ALL PROPOSED OUTFALL CONTROL STRUCTURES. RECORD DRAWINGS OF ALL MITIGATION AREAS INCLUDING ELEVATIONS, ZONES AND LIMITS SHALL BE PERFORMED BY A REGISTERED LAND SURVEYOR AND REVIEWED BY THE ENGINEER OF RECORD PRIOR TO ACCEPTANCE AND PAYMENT. THE RECORD DRAWINGS SHALL SPECIFICALLY INCLUDE THE SURFACE AREA OF STORMWATER FACILITY AREAS AT NORMAL WATER), TOP OF BANK AND ELEVATION (NWL₂₀), AT HIGH WATER ELEVATION (HWL ALL MITIGATION AND/OR LITTORAL SHELF AREAS.
- TO PREVENT SEDIMENTARY RUNOFF DURING CONSTRUCTION, STAKED HAY BALES, STAKED SILT SCREENS OR INLET DEBRIS CONTROL SCREENS ARE TO BE PLACED AT STORM INLETS, OUTFALL LOCATIONS AND ADJACENT PROPERTY LINES AS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSTALLED AND THEN VERIFIED/INSPECTED BY MANATEE COUNTY INFRASTRUCTURE INSPECTIONS RESOURCES DIVISION (708-7450) PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING THE SEDIMENTATION BARRIERS IN A WORKING MANNER FOR THE DURATION OF CONSTRUCTION AND SHOULD BE CHECKED DAILY. SILTATION ACCUMULATIONS GREATER THAN THE LESSER OF 12 INCHES OR ONE-HALF OF THE DEPTH OF THE SEDIMENTATION BARRIER SHALL BE IMMEDIATELY REMOVED AND REPLACED IN UPLAND AREAS. IN ADDITION TO SPECIFIED EROSION CONTROL LOCATIONS, THE CONTRACTOR SHALL PERFORM DAILY SITE INSPECTIONS FOR POTENTIAL EROSION PROBLEMS. IF PROBLEMS OCCUR, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING APPROPRIATE EROSION CONTROL IMMEDIATELY. AN INSPECTION LOG SHALL BE MAINTAINED AND AVAILABLE ON-SITE AT ALL TIMES. STORMWATER TREATMENT FACILITIES INCLUDING OUTFALL PER DETAIL ARE TO BE CONSTRUCTED EARLY IN SITE DEVELOPMENT, WITH NO OFF-SITE UNTREATED RUN-OFF OCCURRING DURING CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING TEMPORARY EROSION CONTROL DEVICES FOLLOWING COMPLETION OF ALL CONSTRUCTION AND FINAL STABILIZATION.
- ALL PIPE LENGTHS SHOWN ON PLAN VIEW ARE TO THE END OF THE MITERED END SECTION. REFER TO MITERED END SECTION DETAIL FOR LENGTH OF PIPE TO BE INCLUDED IN PRICE FOR MITERED END SECTION.
- TOPOGRAPHIC AND PROPERTY SURVEYS GIVING LOT SIZE, GROUND ELEVATIONS, OBSTRUCTIONS ON SITE, LOCATIONS AND DEPTHS OF SEWERS, CONDUITS, PIPES, EXISTING STRUCTURES, CURBS, PAVEMENTS, TRACTS, AND SOIL BORING DATA GIVING THE NATURE OF GROUND AND SUBSURFACE CONDITIONS HAVE BEEN OBTAINED FROM RELIABLE SOURCES. THE ACCURACY OF THIS DATA IS NOT GUARANTEED, AND IS FURNISHED SOLELY AS AN ACCOMMODATION TO THE CONTRACTOR. USE OF THIS DATA SHALL BE MADE AT THE CONTRACTOR'S DISCRETION. NO ADDITIONAL COMPENSATION WILL BE GRANTED DUE TO THE CONTRACTOR'S LACK OF KNOWLEDGE OF SITE CONDITIONS. PRIOR TO BID SUBMISSION, THE CONTRACTOR SHALL CONDUCT ANY ADDITIONAL SURVEYS AND SOILS TESTS HE MAY DEEM NECESSARY TO VERIFY THE ACCURACY OF THE INFORMATION PROVIDED.
- THE CONTRACTOR SHALL VERIFY TOPOGRAPHY AND SATISFY HIMSELF AS TO THE EXTENT OF FILL NECESSARY TO ACHIEVE FINISHED GRADE PRIOR TO AWARD OF CONTRACT. THERE SHALL BE NO CLAIM FOR EXTRAS NOTWITHSTANDING SITE PLAN REVISIONS PROMULGATED SUBSEQUENT TO AWARD OF CONTRACT.
- ROADSIDE UNDERDRAIN SHOWN ON PLAN IS FOR STUB-OUT. ADDITIONAL UNDERDRAIN MAY BE REQUIRED NECESSARY IF NOT FUNCTIONING DURING SWFWMD CERTIFICATION
- SUITABLE FILL MATERIAL FROM EXCAVATION SHALL BE UTILIZED FOR PROJECT FILL PER GRADING SPECIFICATIONS. UNSUITABLE MATERIAL SHALL BE PLACED IN OPEN AREAS ONLY AS DIRECTED BY THE PROJECT ENGINEER AND SOILS ENGINEER IN ACCORDANCE WITH FDOT STANDARD PLANS INDEX 120-001.
- THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL STRUCTURES PRIOR TO INSTALLATIONS.
- REFER TO CONSTRUCTION TECHNICAL SPECIFICATIONS FOR COMPACTION REQUIREMENTS, GRASSING/SODDING REQUIREMENTS, AND PAVING CONSTRUCTION MATERIAL SPECIFICATIONS.
- ALL FILL AREAS ARE TO BE CONSTRUCTED IN 12" MAXIMUM LIFTS.
- THE CONTRACTOR SHALL REVIEW SOILS TESTS AS PERFORMED BY THE SOIL CONSULTANT AND IS ENCOURAGED TO CONDUCT ON-SITE TESTING TO SATISFY HIMSELF AS TO ACTUAL LIMITS OF REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIALS PRIOR TO BIDDING.
- ON SLOPES GREATER THAN 3:1 PEGGING OR PINNING OF SOD MAY BE REQUIRED.
- STATION LOCATIONS AND OFFSETS FOR STORM DRAIN INLETS AND MANHOLES REFERENCE THE CENTER OF THE SPECIFIED STRUCTURE BOTTOM. STATION LOCATION IS CENTER OF STRUCTURE BOTTOM FOR JUNCTION BOXES, CENTER OF RISER FOR CURB INLETS. FOR PIPES WITH MITERED END SECTIONS, THE PROPOSED LENGTHS SHOWN ON THE PLANS INCLUDE THE LENGTH OF THE MITERED END SECTION. PAYMENT FOR PIPE SHALL NOT INCLUDE THE LENGTH OF THE MITERED END SECTION. AS SPECIFIED BY DIMENSION "A" AS SHOWN IN FDOT STANDARD PLANS INDEX 430-031 AND 430-032. PAYMENT SHALL BE FROM INSIDE STRUCTURE WALL TO INSIDE STRUCTURE WALL. ANY EXTRA PIPE LENGTH LISTED SHALL BE CONSIDERED

CONTINGENT.

- ALL CURB INLET AND JUNCTION BOX STORMWATER STRUCTURES SHALL HAVE HEAVY DUTY RING AND COVER MANHOLE ACCESS. ALL DRAINAGE BOX DETAIL SHALL FOLLOW MANATEE COUNTY CURRENT STANDARD 202 UNLESS IT IS DESIGNATED IN THE PLAN. ALL DRAINAGE BOXES SHALL HAVE A WALL THICKNESS OF 6" MINIMUM.
- DURING DEWATERING OPERATIONS, THE CONTRACTOR SHALL NOT DISCHARGE DIRECTLY TO RECEIVING WATERS, EXISTING CONVEYANCES TO RECEIVING WATERS, OR WETLAND SYSTEMS. TEMPORARY SEDIMENT BASINS, TRAPS, OR SILTATION REDUCTION DEVICES SHALL BE UTILIZED TO COLLECT THE DISCHARGE FROM DEWATERING ACTIVITIES TO ELIMINATE THE POTENTIAL FOR OFFSITE SEDIMENT TRANSPORT AND TO ENSURE THAT DIRECT DISCHARGE DOES NOT OCCUR.
- CONTRACTOR SHALL SUBMIT NPDES PERMIT APPLICATION TO FDEP.

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DATE		DESCRIPTION		DATE		FDOT FPID # 445308-1-58-01 PROJECT # 850-6094060 SURVEYED ZNS 01/2019 SURVEY # N/A DESIGNED MCG 01/2019 SEC./TWN./RGE 35/33/19 DRAWN MCG 01/2019 SCALE CHECKED SF 08/2021		YANRONG FU, P.E. FLORIDA P.E. # 69268 SIGNATURE AND DATE		 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208		ERIE RD. AND SR 62 IMPROVEMENTS GENERAL NOTES		VERTICAL DATUM NGVD 1929 SHEET NO. 15
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RESTORATION

1. ALL RESTORATION WORK PERFORMED THROUGHOUT THE PROJECT SHALL CONFORM TO EXISTING LINES AND GRADES UNLESS SHOWN OTHERWISE.
2. ALL DISTURBED GRASSED AREAS SHALL BE SODDED. THE TYPE OF SOD USED TO REPLACE OWNER MAINTAINED AREAS IN RIGHT-OF-WAY SHALL BE COORDINATED WITH THE PROPERTY OWNER. ALL EXISTING SHRUBS, TREES, PLANTINGS AND OTHER VEGETATION, OUTSIDE OF RIGHT-OF-WAY DISTURBED DURING CONSTRUCTION SHALL BE REPLACED WITH EQUIVALENT MATERIAL BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
3. CONCRETE DRIVEWAYS OR SIDEWALKS THAT ARE OUT SHALL BE RESTORED TO MATCH EXISTING ACCORDING TO THE CURRENT EDITIONS OF THE F.D.O.T. SPECIFICATIONS FOR ROAD AND BRIDGE DESIGN, INDEX 522-001 AND INDEX 522-003 OF THE FDOT STANDARD PLANS, LATEST REVISION.
4. WHENEVER A PERMANENT ROADWAY SURFACE IS NOT PLACED IMMEDIATELY AFTER BACKFILLING AND COMPACTION OF THE NEWLY INSTALLED PIPE LINE IN AREAS WHERE TRAFFIC MUST PASS, THE CONTRACTOR SHALL INSTALL A TEMPORARY SURFACE CONSISTING OF NINE INCHES OF COMPACTED LIME ROCK BASE AND A COAT OF ASPHALT EMULSION. PERMANENT ROADWAY REPAIR SHALL BE PERFORMED A MAXIMUM OF TWENTY-ONE CALENDAR DAYS AFTER THE INITIAL OPEN CUTTING.
5. RESTORATION OF CURBS, DRIVEWAYS, SIDEWALKS, AND PLACEMENT OF SOD SHALL BE COMPLETED WITHIN FORTY-FIVE CALENDAR DAYS OF INITIAL DISTURBANCE, OR TWENTY-ONE CALENDAR DAYS OF SUBSTANTIAL COMPLETION, WHICHEVER OCCURS FIRST.

CONSTRUCTION

6. THE EXHAUST SYSTEM OF ALL GASOLINE AND DIESEL ENGINES SHALL BE EQUIPPED WITH MUFFLERS THAT MEET THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR NOISE SUPPRESSION. THE CONTRACTOR SHALL INSTALL NOISE ABATEMENT BARRIERS POSITIONED TO BREAK LINE-OF-SITE FROM THE NOISE SOURCE TO AFFECTED RESIDENCES, AS APPROVED BY THE ENGINEER.
7. NO MATERIAL SHALL BE STOCKPILED IN ROADWAYS. ALL DIRT AND DEBRIS SHALL BE REMOVED FROM THE JOB SITE DAILY. ROADS SHALL BE SWEEPED DAILY AS PART OF DAILY CLEAN UP.
8. THE CONTRACTOR IS TO CONTROL ALL FUGITIVE DUST ORIGINATING ON THIS PROJECT BY WATERING OR OTHER METHODS AS REQUIRED.
9. INGRESS AND EGRESS TO ALL THE PROPERTIES IN THE CONSTRUCTION AREA SHALL BE MAINTAINED AT ALL TIMES.
10. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING EQUIPMENT NECESSARY TO KEEP ALL EXCAVATIONS DRY. DEWATERING IS REQUIRED TO 18" BELOW TRENCH BOTTOM. THE CONTRACTOR SHALL SUBMIT DEWATERING PLAN TO SOUTH WEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) FOR APPROVAL PRIOR TO CONSTRUCTION.
11. ALL PIPING AND FITTINGS USED ON THIS PROJECT SHALL BE AS NOTED ON THE PLANS AND IN THE CONTRACT DOCUMENT AND SHALL BE INSTALLED TO THE LINES AND GRADES SHOWN ON THE PLANS AND PROFILES.
12. ALL PIPE LENGTHS ARE PLUS OR MINUS AND MAY BE ADJUSTED IN THE FIELD AS REQUIRED. PIPE MEASUREMENTS AND STATION OFFSETS ARE TO CENTER OF STRUCTURES OR FITTINGS.
13. ALL ROCKS OR STONES LARGER THAN SIX INCH DIAMETER SHALL BE REMOVED FROM THE BACKFILL MATERIAL. BACKFILL MATERIAL PLACED WITHIN ONE FOOT OF PIPING AND APPURTENANCES SHALL NOT CONTAIN ANY STONES LARGER THAN TWO INCH DIAMETER.
14. ALL PENETRATION OF EXISTING STRUCTURES SHALL BE BY THE MECHANICAL ROTARY CORE BORING METHOD.
15. ALL CONCRETE AND REBAR PENETRATED OR DISTURBED SHALL BE COATED WITH TWO COATS OF EPOXY.
16. CONTRACTOR IS RESPONSIBLE FOR ALL UNSUITABLE MATERIAL REMOVAL WITHIN PROJECT LIMITS. EXCAVATION, EMBANKMENT, INCLUDING UTILIZATION, AND UNSUITABLE MATERIAL REMOVAL SHALL BE IN ACCORDANCE WITH FDOT DESIGN STANDARDS, LATEST VERSION.
17. WHERE EXCAVATION IS REQUIRED FOR CONSTRUCTION OF SIDEWALK, ALL STUMPS, ROOTS, ETC. SHALL BE REMOVED COMPLETELY FROM THE SIDEWALK AREA. ALL STUMPS WITHIN THE PROJECT LIMITS SHALL BE REMOVED COMPLETELY AND REPLACED WITH COMPACTED BACKFILL BEFORE THE AREA IS FILLED. TREE ROOTS IN AREA OF PROPOSED SIDEWALK, RAMP, OR DRIVEWAY REPLACEMENT SHALL BE GROUND OUT TO A DEPTH OF 8" BELOW BOTTOM OF NEW SIDEWALK OR DRIVEWAY. ALL PRUNED ROOT DEBRIS SHALL BE REMOVED FROM THE SUB-BASE MATERIAL PRIOR TO POURING CONCRETE, ASPHALT, OR APPLICATION OF OTHER SPECIFIED MATERIALS. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
18. ALL STUMPS, ROOTS, AND OTHER DEBRIS PROJECTING THROUGH OR APPEARING ON THE SURFACE OF THE GROUND SHALL BE REMOVED TO A DEPTH OF 1-FOOT BELOW THE COMPLETED SURFACE. THIS WORK SHALL BE INCLUDED IN AND PAID FOR UNDER THE PAY ITEM FOR CLEARING AND GRUBBING.
19. ALL MATERIALS NOT CLAIMED BY THE COUNTY SHALL BECOME PROPERTY OF THE CONTRACTOR, AND SHALL BE DISPOSED OF BY THE CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR. THIS WORK SHALL BE INCLUDED IN AND PAID UNDER THE PAY ITEM CLEARING AND GRUBBING.
20. THE CONTRACTOR SHALL PROVIDE ALL SHEETING, SHORING, AND BRACING REQUIRED TO PROTECT ADJACENT STRUCTURES OR TO MINIMIZE TRENCH WIDTH. WHERE A SEPARATE PAY ITEM IS NOT PROVIDED, THE COST OF ALL SHEETING, SHORING, AND BRACING REQUIRED SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE ITEM OF WORK FOR WHICH SHEETING, SHORING, AND BRACING IS REQUIRED.
21. THE CONTRACTOR SHALL DISTURB NO MORE GROUND THAN WHAT IS NECESSARY FOR CONSTRUCTION. NO OPEN EXCAVATED TRENCH, OR OTHER UNSAFE CONDITION WILL BE LEFT OVERNIGHT. ALL WORK SITES WILL BE COMPLETELY RESTORED WITHIN SEVEN (7) CALENDAR DAYS OF THE CONCRETE POUR FOR SIDEWALK. THE INTENT OF THIS PROVISION IS TO "SAFE-UP" THE PROJECT SITE AS WORK PROGRESSES, AND SHALL INCLUDE REMOVING FORMS, FILLING HOLES, GRADING, AND REMOVAL OF DEBRIS.
22. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS, OR AS DIRECTED BY THE ENGINEER.
23. ANY EXISTING SIGN TO REMAIN THAT IS DISTURBED OR RELOCATED DURING CONSTRUCTION SHALL BE RESET TO CURRENT STANDARDS FOR HEIGHT, OFFSET, AND METHOD OF INSTALLATION AT NO ADDITIONAL COST TO THE COUNTY.
24. ALL EXISTING SWALES NOT DESIGNATED FOR RECONSTRUCTION SHALL BE REGRADED TO PROMOTE POSITIVE DRAINAGE AND MATCH PROPOSED CENTERLINE SWALE ELEVATION AND ALIGNMENT.
25. ALL STORM DRAINS AND STRUCTURES TO REMAIN SHALL BE CLEANED OF DEBRIS, DIRT, VEGETATION AND OTHER MATERIAL. STORM SEWER INLETS SHALL BE MODIFIED (RAISED/LOWERED) TO MATCH PROPOSED FINISHED GRADE.
26. ALL EXISTING FENCES DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED AND REINSTALLED BY THE CONTRACTOR AT NO ADDITIONAL COST. (EXISTING FENCES WITHIN R/W TAKING LIMITS SHALL BE RECONSTRUCTED TO THE NEW R/W LINE AND ARE TO BE REIMBURSED UNDER THE MISCELLANEOUS BID ITEM).
27. ALL EXISTING TREES LOCATED WITHIN CONSTRUCTION LIMITS SHALL BE REMOVED UNLESS OTHERWISE NOTED.
28. ALL EXISTING STORM DRAINAGE STRUCTURES SHALL REMAIN UNLESS OTHERWISE NOTED.
29. ALL EXISTING BUILDINGS SHALL REMAIN UNLESS OTHERWISE NOTED.
30. REMOVE AND REPLACE BASE AND SUB-BASE ACCORDING TO FDOT STANDARDS.

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(720) 888-1089

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SAFETY HARBOR TEAM
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TAMPA, FL 33634
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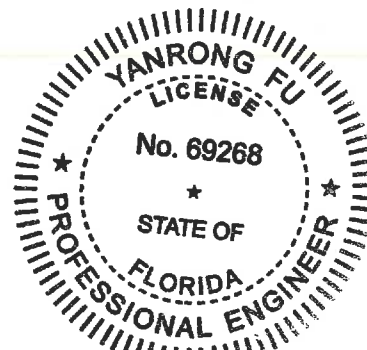
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MADELINE.STANLEY@FPL.COM
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David.McClintock@preco.coop

SUNSHINE STATE ONE CALL
OF FLORIDA
1 (800) 432-4770

LEGEND

EXISTING		LEGEND	
<ul style="list-style-type: none"> ● BENCH MARK • CONCRETE MONUMENT ○ IRON PIPE ○ IRON ROD ▲ HUB ● NAIL & DISK ○ ELEVATION ○ PARCEL ID NO. ○ PARCEL ID NO. ○ LOT NO. ← GUY WIRE ○ POWER POLE ○ LIGHT POLE □ MAIL BOX □ SIGN ○ REFLECTOR ○ SPRINKLER ○ GAS MARKER ○ BACKFLOW PREVENTER ○ BLOW OFF VALVE ○ FIRE HYDRANT ○ WATER VALVE ○ AIR RELEASE VALVE ○ WATER METER ○ SANITARY SEWER MANHOLE ○ SANITARY SEWER CLEAN OUT ○ SOIL BORING LOCATION ○ TELEPHONE SERVICE BOX ○ FLOW DIRECTION ○ GRATE INLET ○ MITERED END SECTION 	<ul style="list-style-type: none"> ○ BUSH ○ TREE ○ OAK TREE ○ PALM TREE ○ PINE TREE ○ EDGE OF VEGETATION ○ CHAIN LINK FENCE ○ WOOD FENCE ○ BARBED WIRE FENCE ○ FORCE MAIN ○ POTABLE WATER ○ RECLAIMED WATER ○ SANITARY SEWER ○ STORM DRAIN ○ GAS LINE ○ OVERHEAD_CHARACTER_TV ○ BURIED_CABLE_TV ○ OVERHEAD ELECTRIC ○ BURIED_FPL ○ OVERHEAD FRONTIER ○ BURIED FRONTIER ○ BURIED FIBER OPTIC ○ BURIED UTILITY ○ OVERHEAD UTILITY ○ RAIL ROAD TRACKS ○ EDGE OF CONCRETE ○ EDGE OF ROAD ○ TOE OF SLOPE ○ TOP OF BANK ○ PROPERTY LINE ○ RIGHT OF WAY 	<p>ABBREVIATIONS</p> <ul style="list-style-type: none"> R/W RIGHT OF WAY CONC CONCRETE ASPH ASPHALT DRWY DRIVEWAY SWK SIDEWALK EP EDGE OF PAVEMENT BOC BACK OF CURB 	<p>PROPOSED</p> <ul style="list-style-type: none"> — MAIN — SERVICE LINE — PROPOSED EASEMENT ○ FIRE HYDRANT ○ VALVE ○ SANITARY SEWER MANHOLE ○ BLOW OFF ASSEMBLY ○ REDUCER ○ TEE ○ HORIZONTAL BEND ○ VERTICAL BEND ○ FLUG ○ MASTER METER ASSEMBLY ○ SERVICE LINE & METER ○ DOUBLE SERVICE



YANRONG FU, P.E.
FLORIDA P.E. # 69268
10/27/2021
SIGNATURE AND DATE



PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS

GENERAL NOTES AND LEGEND

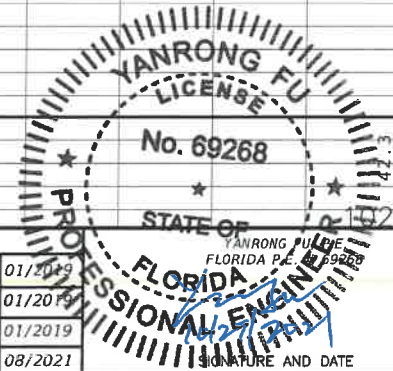
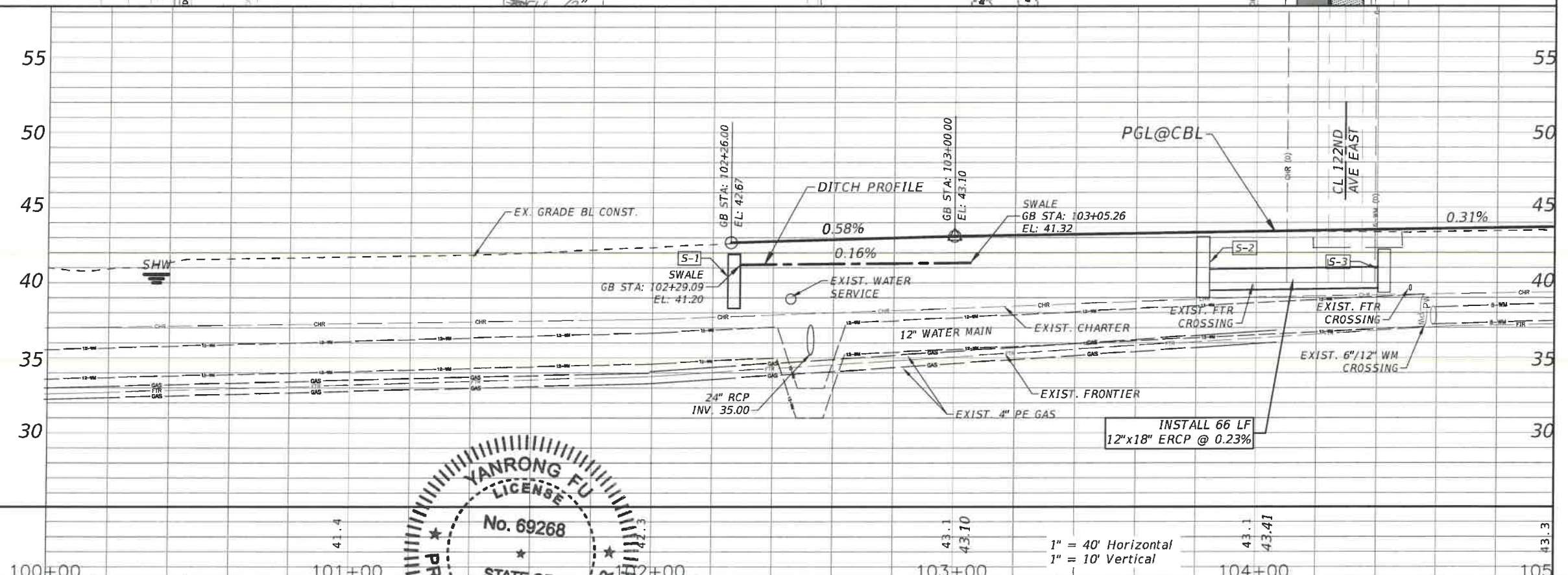
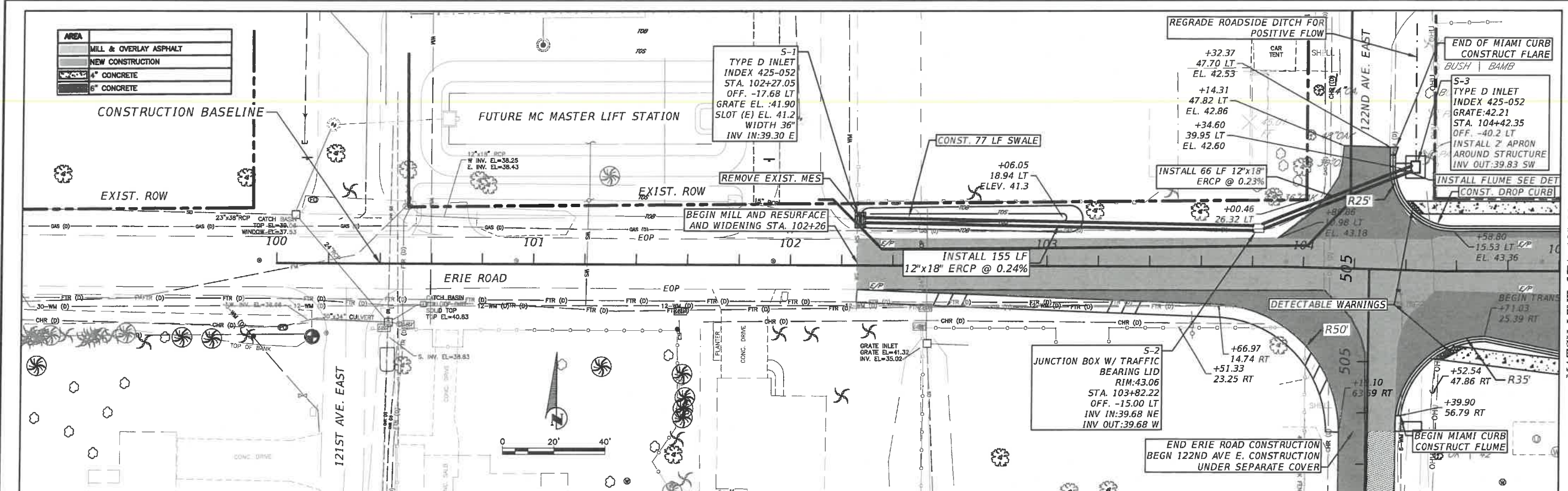
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NGVD 1929

SHEET NO.
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			SURVEY #	N/A
			SEC./TWN./RGE	35/33/19
			SCALE	CHECKED
				SF 08/2021

AREA
MILL & OVERLAY ASPHALT
NEW CONSTRUCTION
4" CONCRETE
6" CONCRETE



ERIE RD. AND SR 62 IMPROVEMENTS
ROADWAY PLAN AND PROFILE
 STA. 100+00.00 TO 105+00.00

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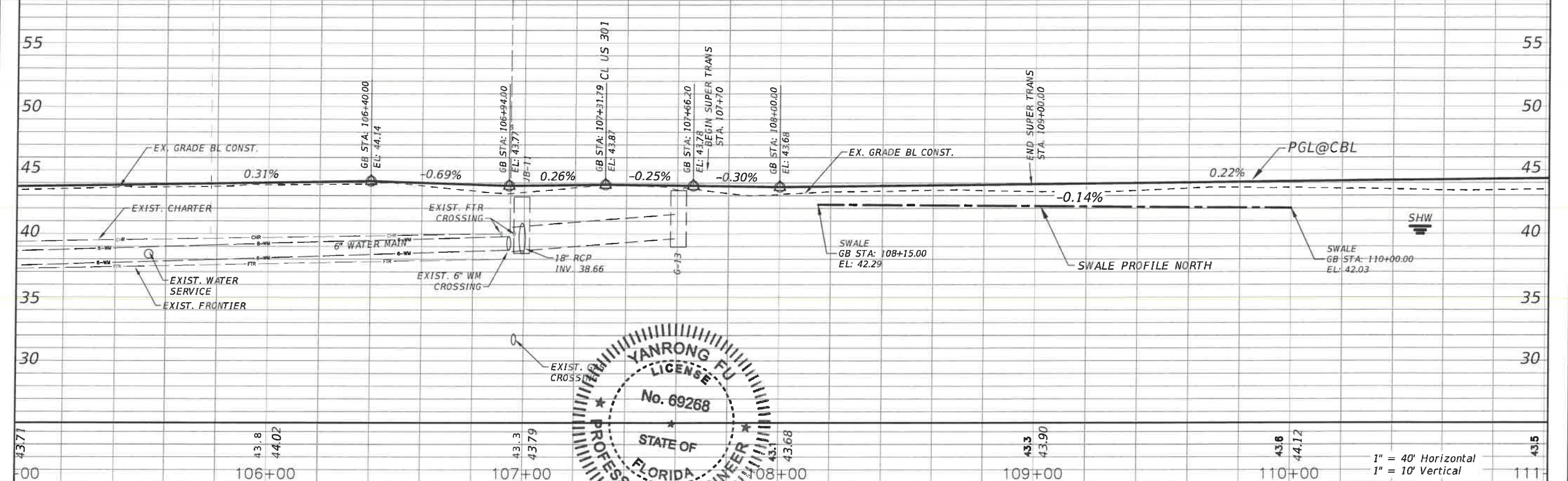
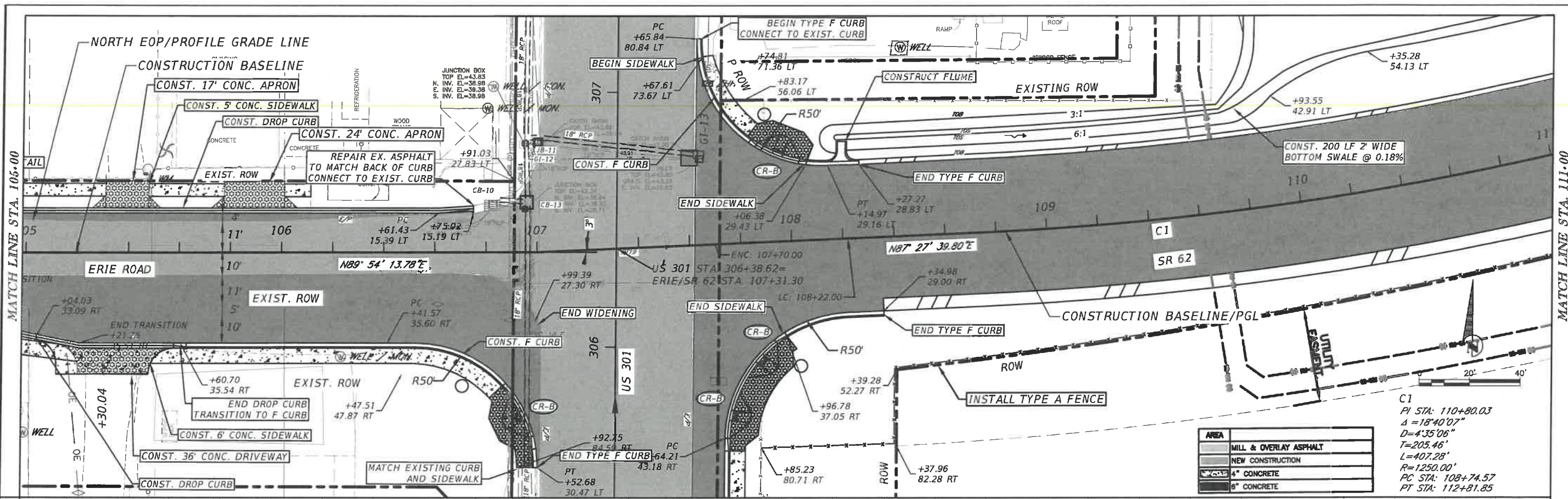
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PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	CHECKED
SURVEYED	ZNS 01/2019
DESIGNED	MCG 01/2019
DRAWN	MCG 01/2019
CHECKED	SF 08/2021

SIGNATURE AND DATE

VERTICAL DATUM
 NGVD 1929

SHEET NO.
 17



AREA	DESCRIPTION
[Pattern]	MILL & OVERLAY ASPHALT
[Pattern]	NEW CONSTRUCTION
[Pattern]	4" CONCRETE
[Pattern]	6" CONCRETE

C1
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 D = 4°35'06"
 T = 205.46'
 L = 407.28'
 R = 1250.00'
 PC STA: 108+74.57
 PT STA: 112+81.85

YANRONG FU
 LICENSE
 No. 69268
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 SIGNATURE AND DATE

Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS
 ROADWAY PLAN AND PROFILE
 STA. 105+00.00 TO 111+00.00

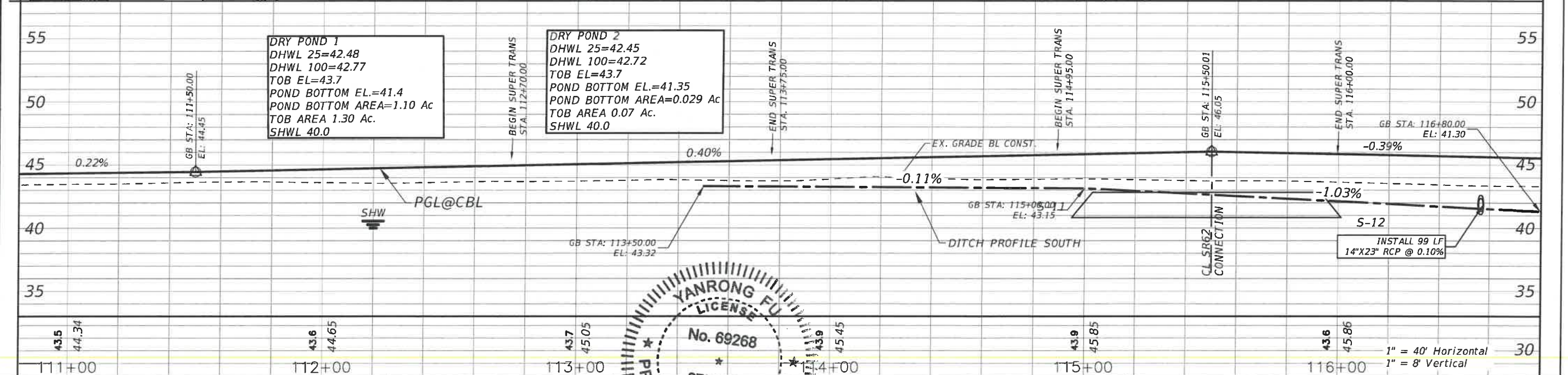
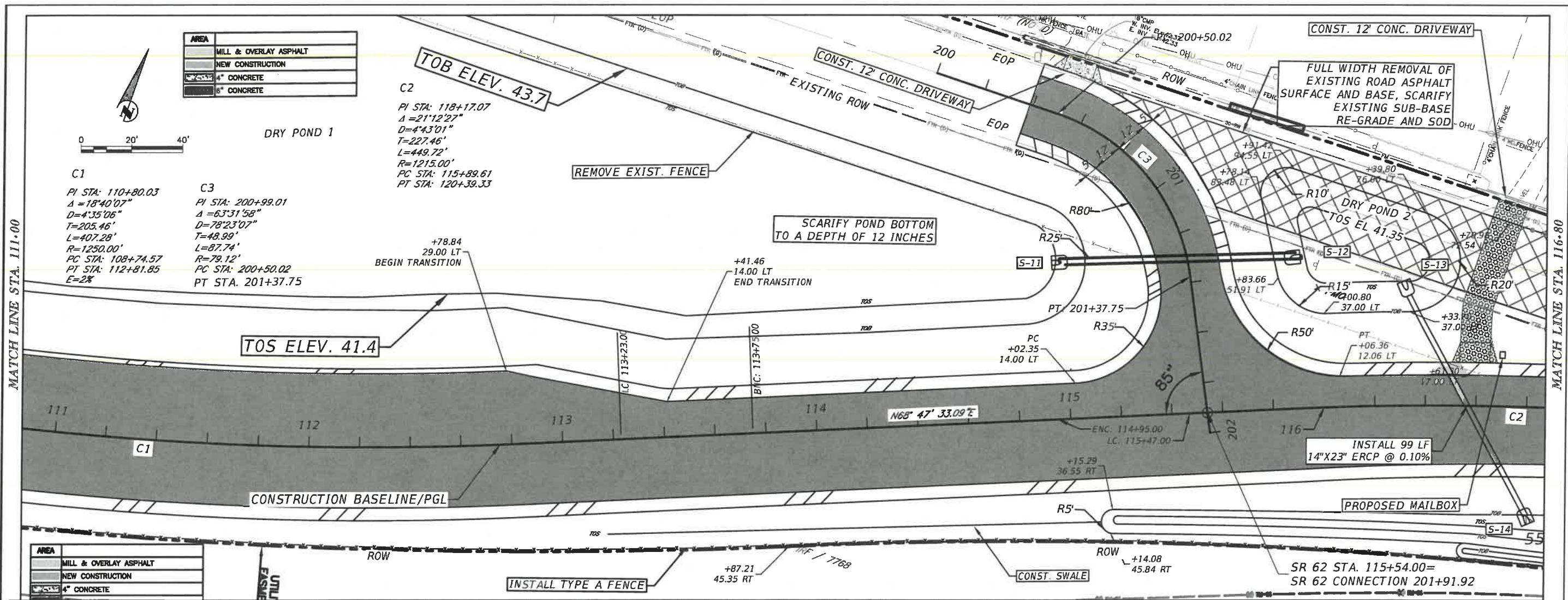
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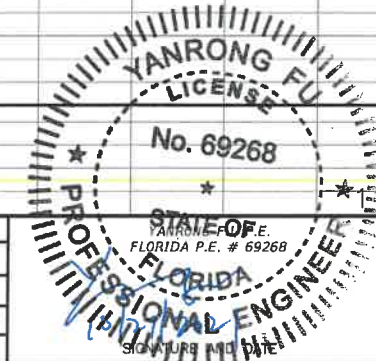
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SEC./TWN./RGE	35/33/19
SCALE	CHECKED
SURVEYED	ZNS 01/2019
DESIGNED	MCG 01/2019
DRAWN	MCG 01/2019
CHECKED	SF 08/2021

VERTICAL DATUM
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 SHEET NO.
 18

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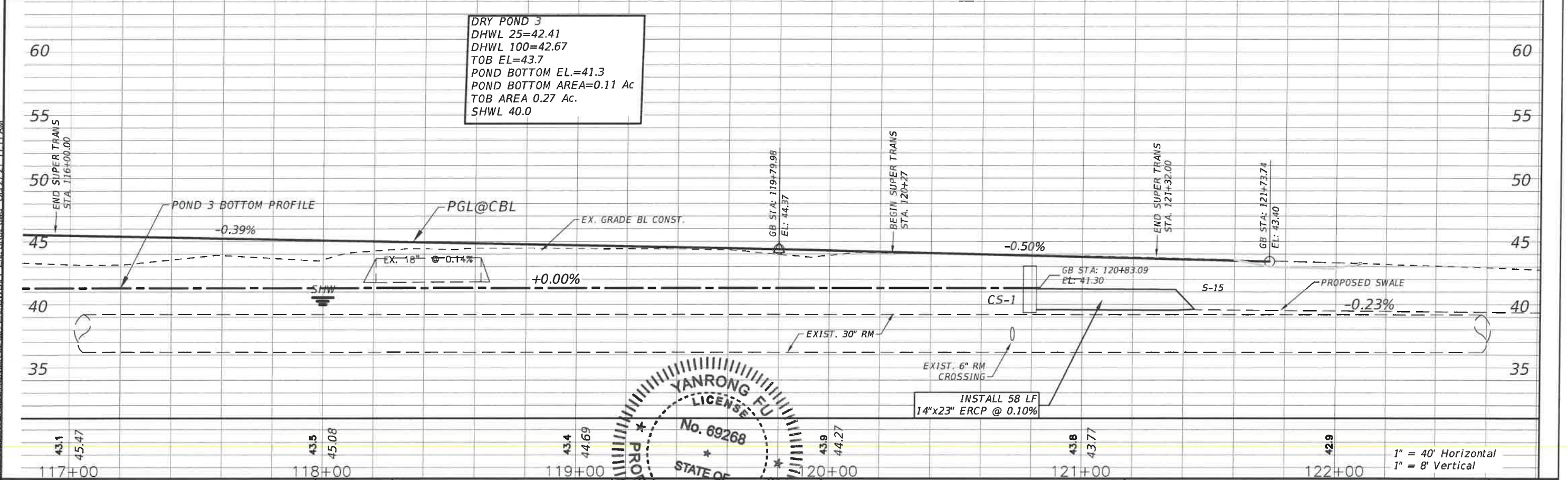
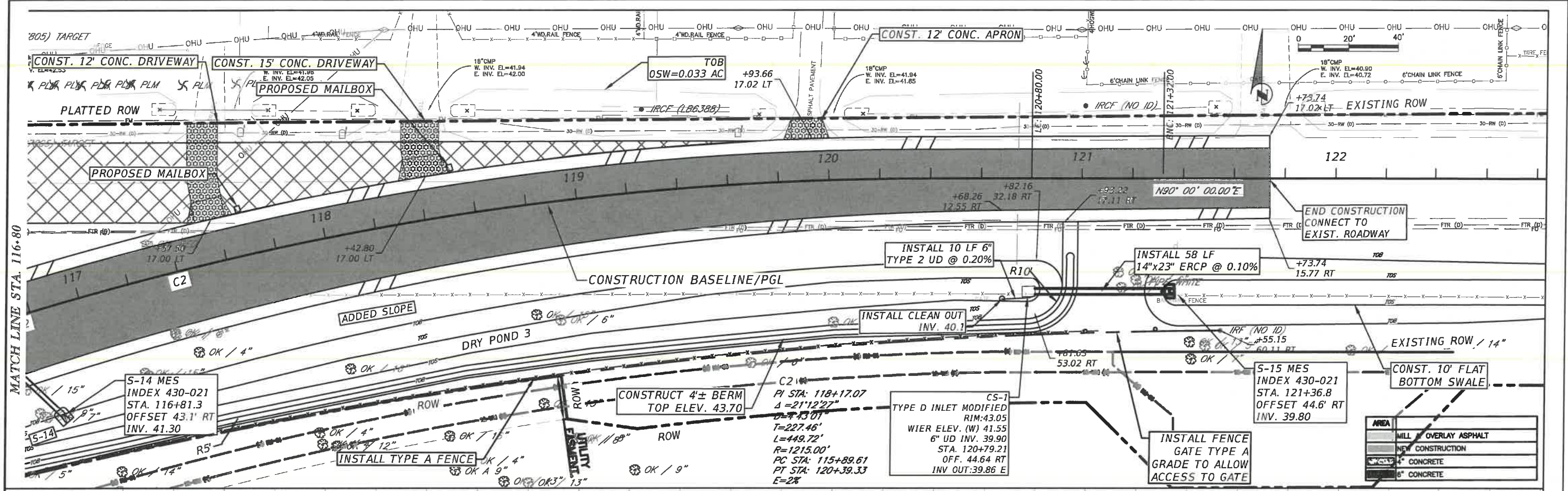


Manatee County
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ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

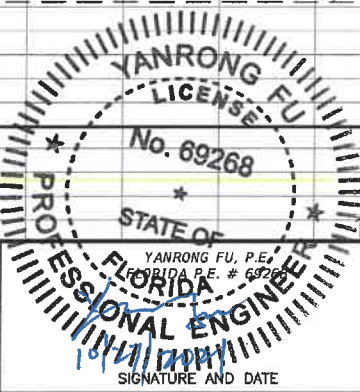
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ROADWAY PLAN AND PROFILE
STA. 111.00.00 TO 116.80.00

VERTICAL DATUM
NGVD 1929

SHEET NO.
19



DATE	DESCRIPTION	DATE	PROJECT #	FDOT JPA #	SURVEYED	ZNS	01/2019
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					DRAWN	MCG	01/2019
					CHECKED	SF	08/2021



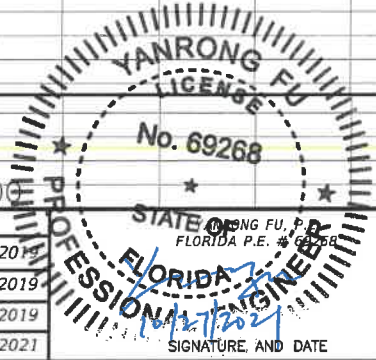
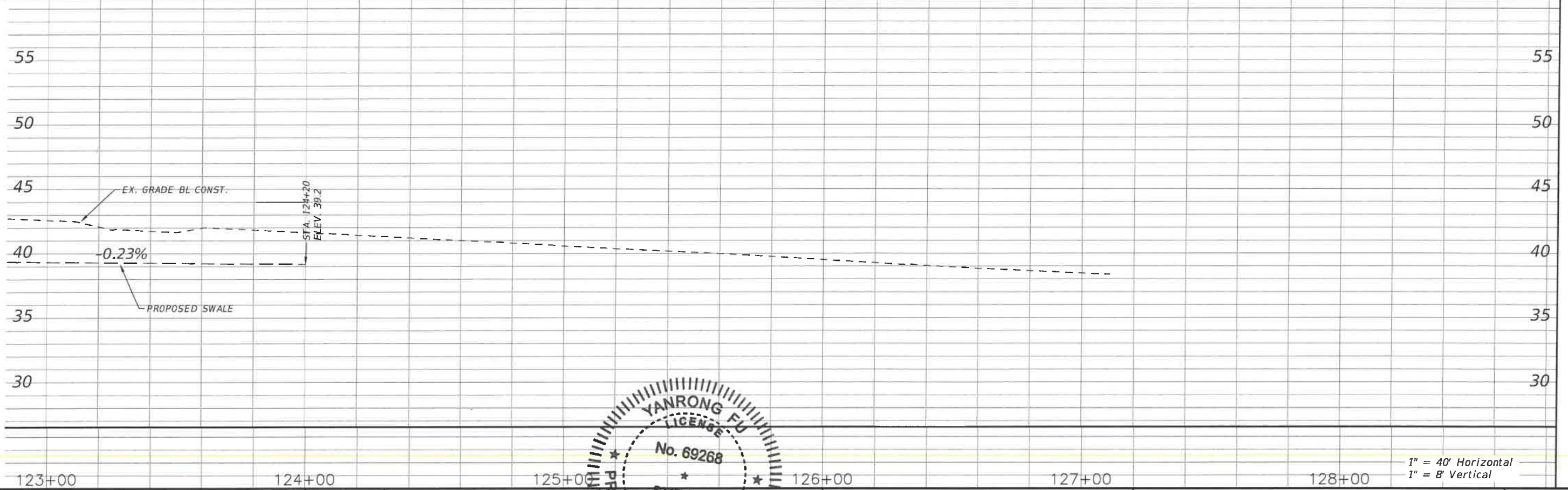
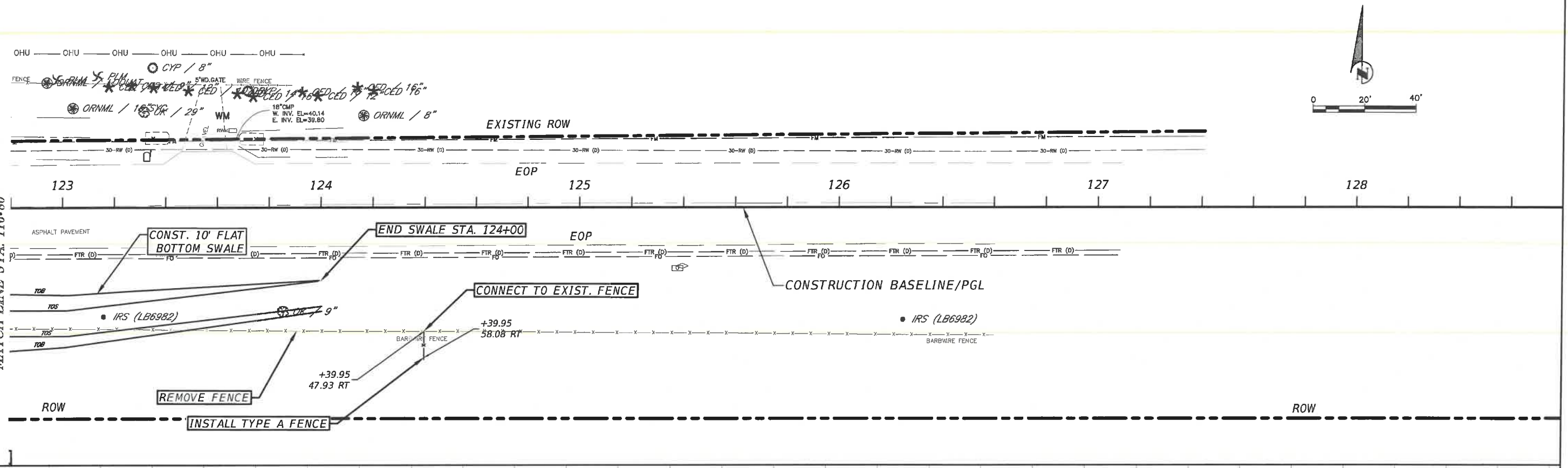

Manatee County
 PUBLIC WORKS DEPARTMENT
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 1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS
ROADWAY PLAN AND PROFILE
STA. 116+80.00 TO 122+80.00

VERTICAL DATUM	NGVD 1929
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PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS

ROADWAY PLAN AND PROFILE
STA. 122.80 TO 128.00

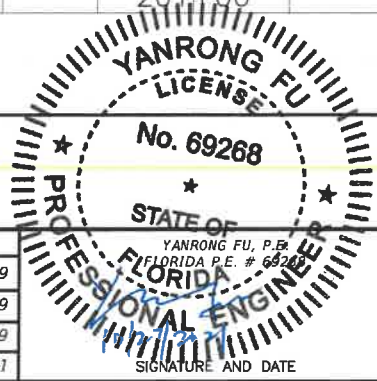
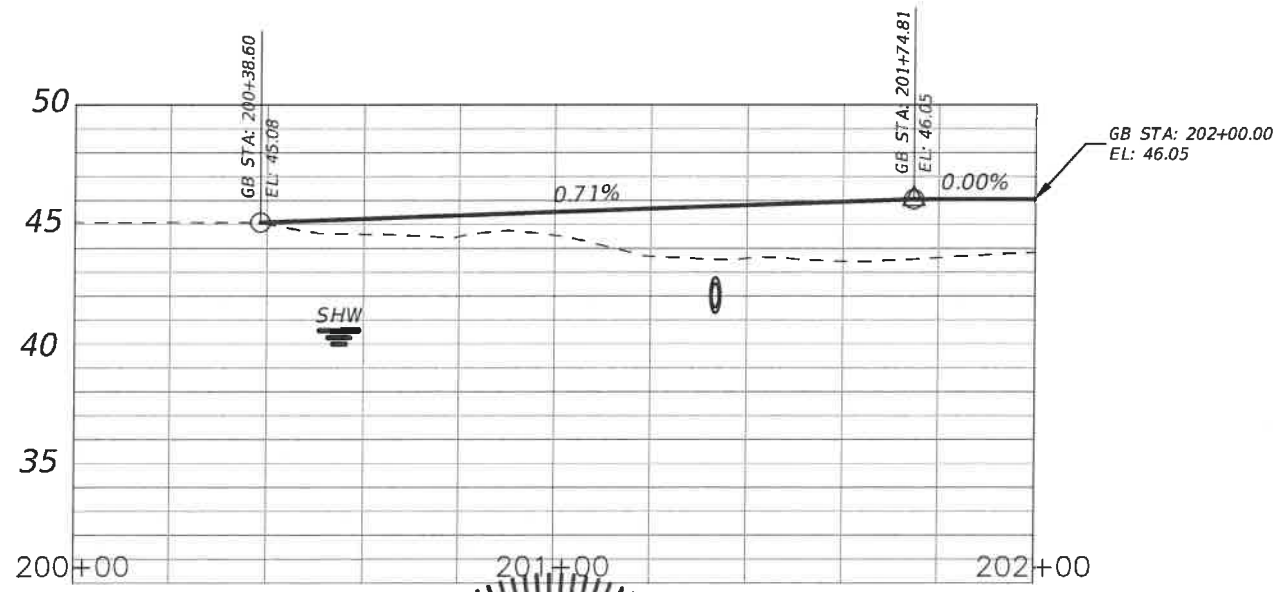
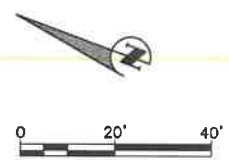
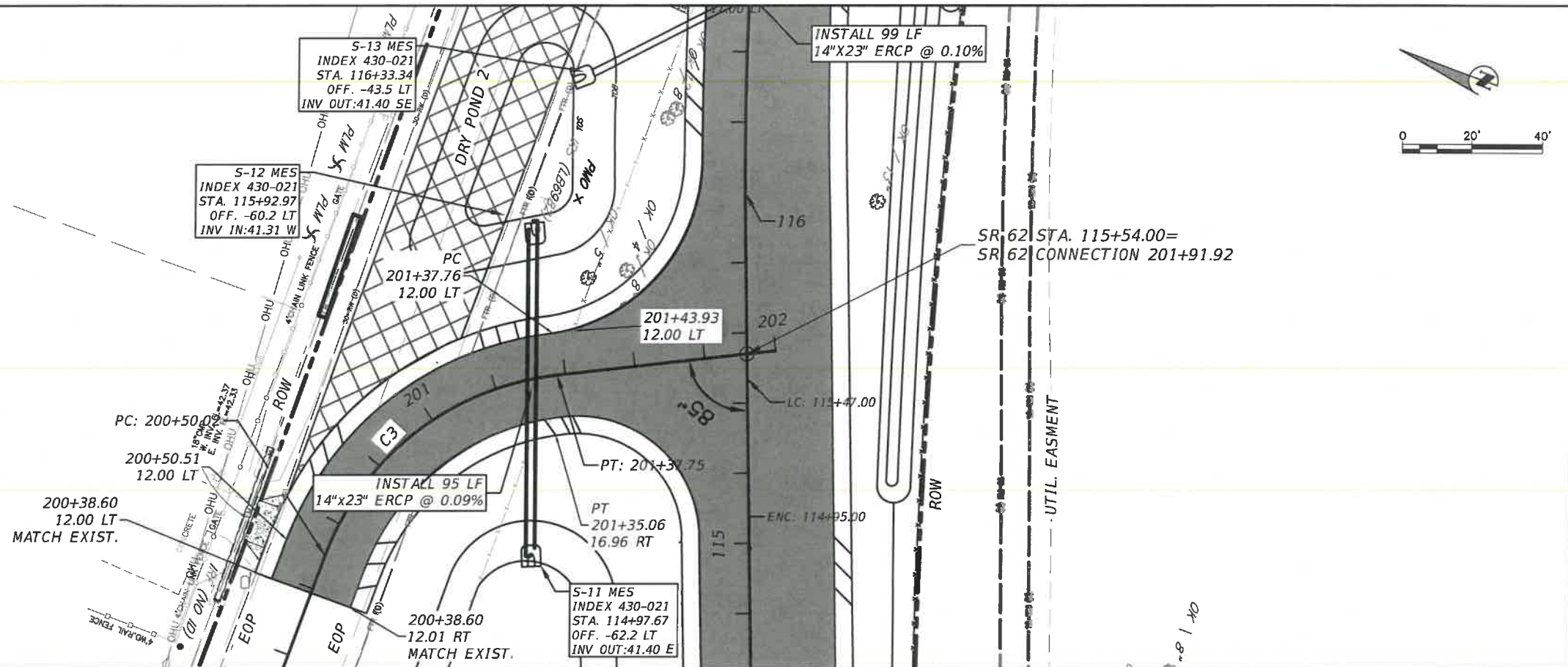
VERTICAL DATUM NGVD 1929
 SHEET NO. 21

DATE	DESCRIPTION	DATE	PROJECT #	FDOT JPA #	SCALE	CHECKED	SF	08/2021
			850-6094060	445308-1-58-01				
			N/A					
			35/33/19					

1" = 40' Horizontal
1" = 8' Vertical

H:\Highway_Engr\proj\road\PRO\INTERSECTION\SR 62 301 ERIE.DWG\PP.Erie SR62.dwg Oct 27 21 11:13 AM

AREA	RESTORATION
	MILL & OVERLAY ASPHALT
	NEW CONSTRUCTION



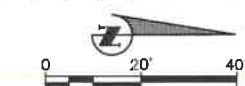
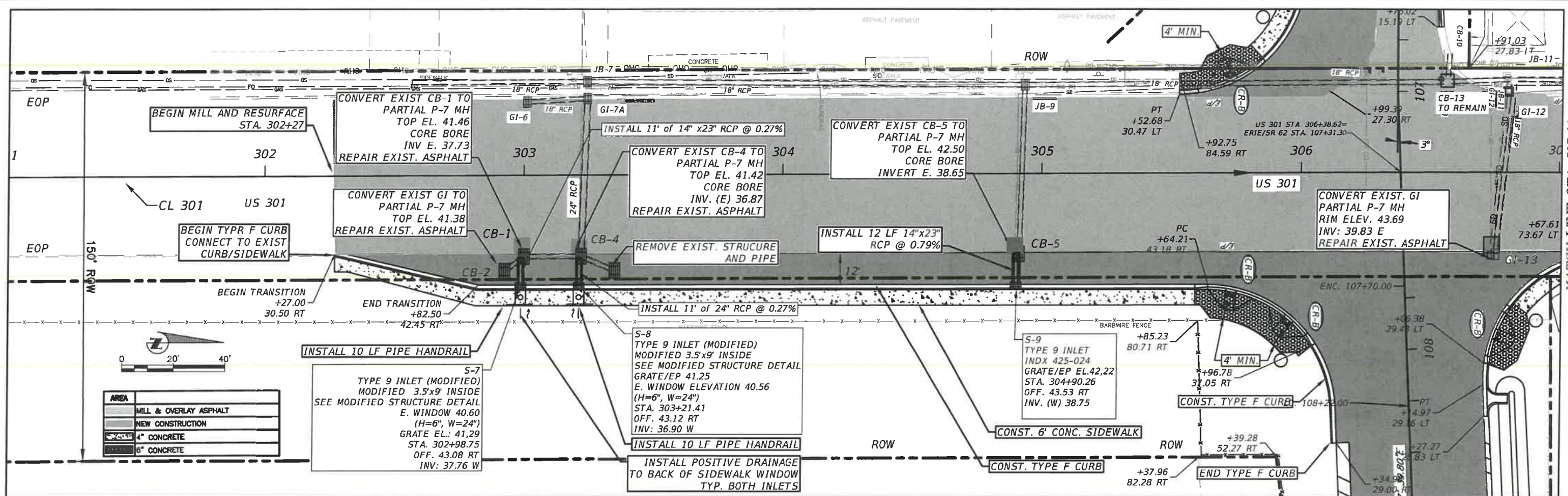
Manatee County
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS
ROADWAY PLAN AND PROFILE
SR 62 CROSS OVER

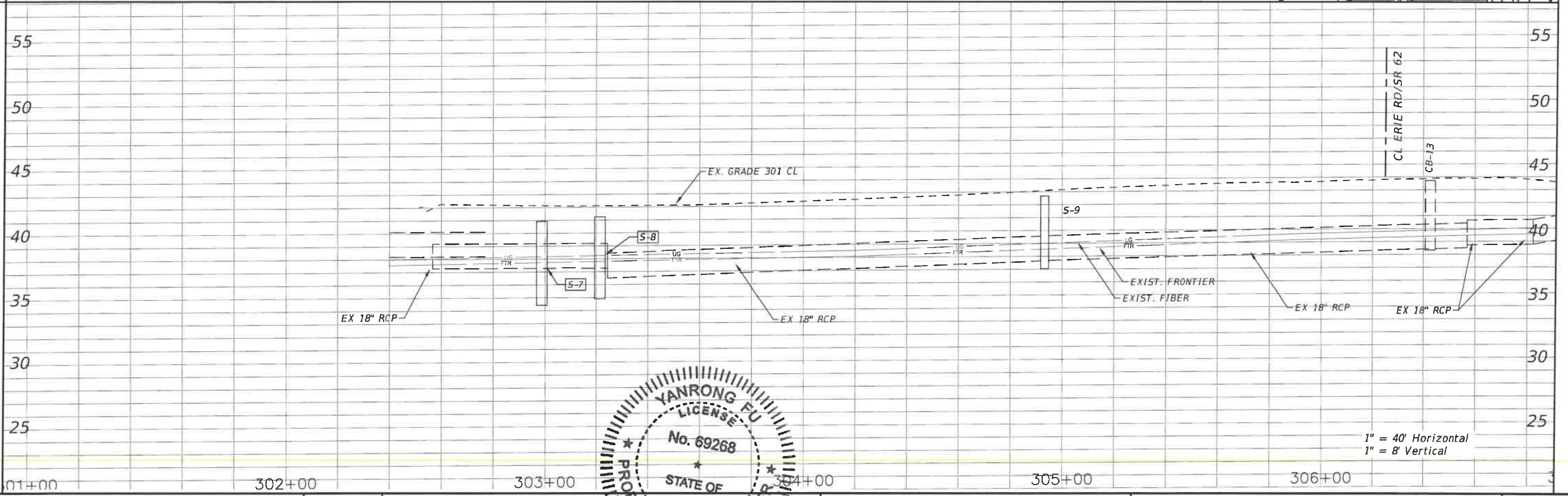
VERTICAL DATUM NGVD 1929
SHEET NO. 22

1" = 40' Horizontal
1" = 8' Vertical

DATE	DESCRIPTION	DATE	DATE	DATE
	FDOT JPA # 445308-1-58-01			
	PROJECT # 850-6094060	SURVEYED	ZNS	01/2019
	SURVEY # N/A	DESIGNED	MCG	01/2019
	SEC./TWN./RGE 35/33/19	DRAWN	MCG	01/2019
	SCALE	CHECKED	SF	08/2021



AREA	DESCRIPTION
[Pattern]	MILL & OVERLAY ASPHALT
[Pattern]	NEW CONSTRUCTION
[Pattern]	4\"/>



Manatee County
FLORIDA

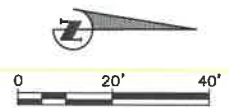
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS

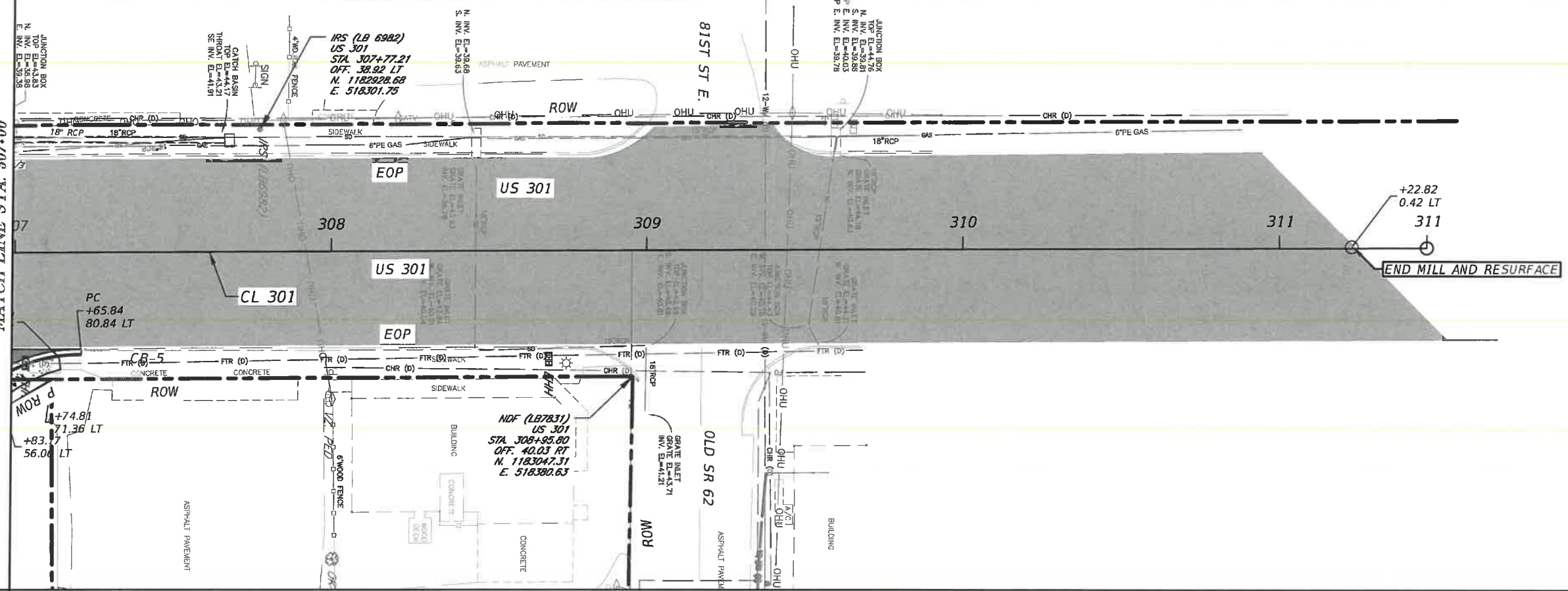
ROADWAY PLAN AND PROFILE
STA. 300+90 TO 306+90

VERTICAL DATUM	NGVD 1929
SHEET NO.	23

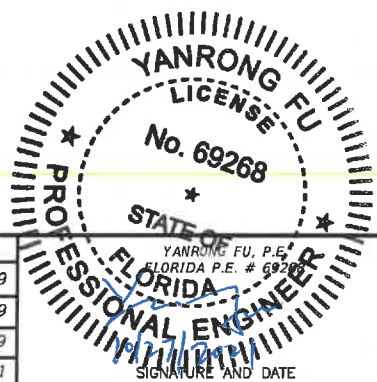
H:\Highway Engineering\PRO\INTERSECTION\SR 62 301 ERIE\DWG\PP ERIE_SRS2.dwg Oct 27 21 11:13 AM



MATCH LINE STA. 307+00



AREA	
[Pattern]	MILL & OVERLAY ASPHALT
[Pattern]	NEW CONSTRUCTION
[Pattern]	4" CONCRETE
[Pattern]	6" CONCRETE



I:\Highway\Engineering\PRO\INTERSECTION\SR 62\301 ERIE.DWG\GPP ERIE SR62.dwg - Oct 27, 21, 11:14 AM

DATE	DESCRIPTION	DATE

FDOT FPID #	445308-1-58-01
PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	

SURVEYED	ZNS	01/2019
DESIGNED	MCG	01/2019
DRAWN	MCG	01/2019
CHECKED	SF	08/2021

YANRONG FU, P.E.
FLORIDA P.E. # 69268
SIGNATURE AND DATE



**PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES**
1022 26th Avenue East, Bradenton, FL 34208

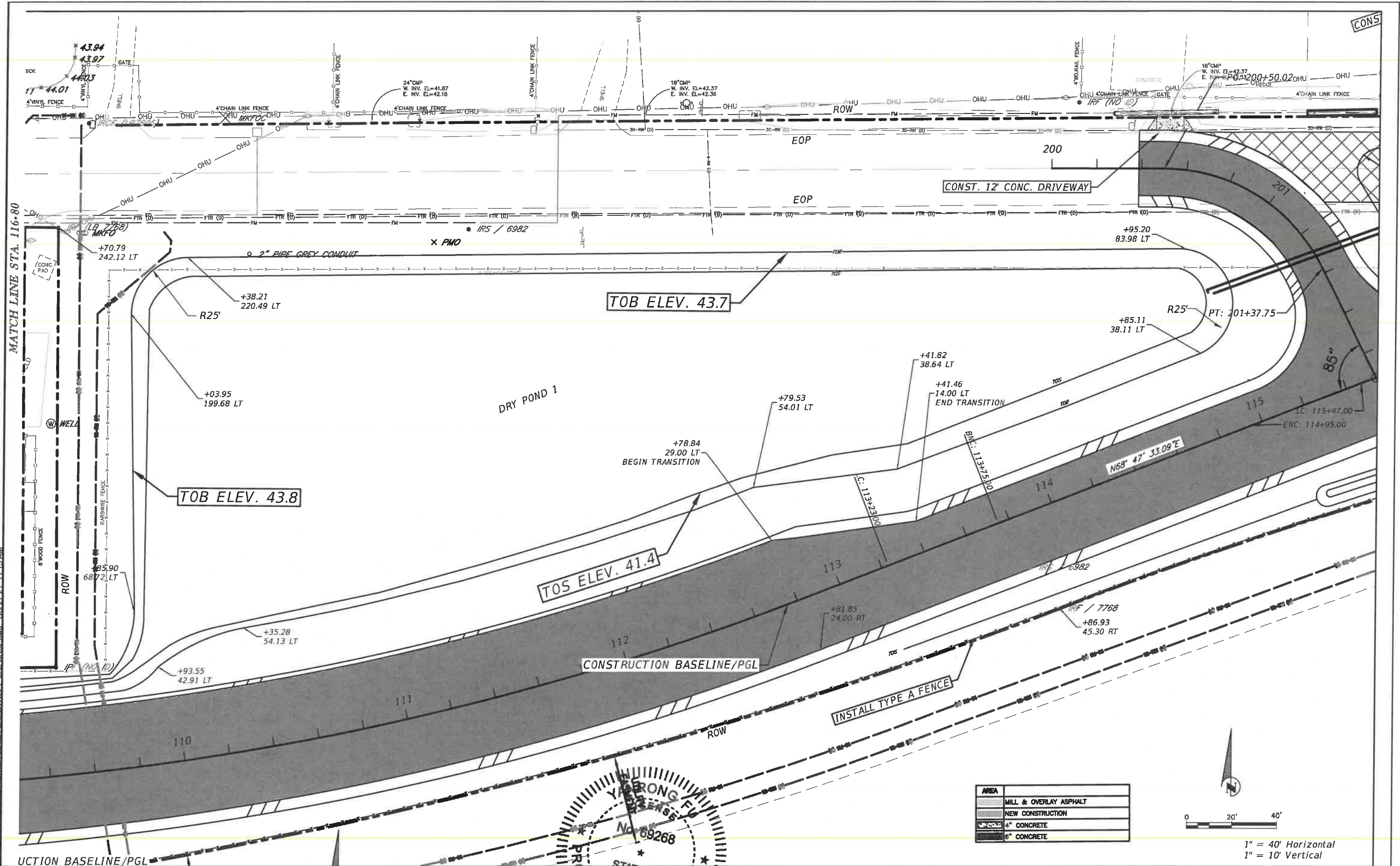
ERIE RD. AND SR. 62 IMPROVEMENTS

US 301 IMPROVEMENTS
STA. 308+80 TO 309+63

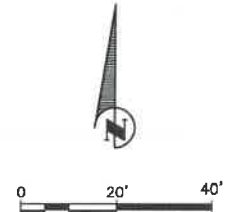
VERTICAL DATUM
NGVD 1929

SHEET NO.
24

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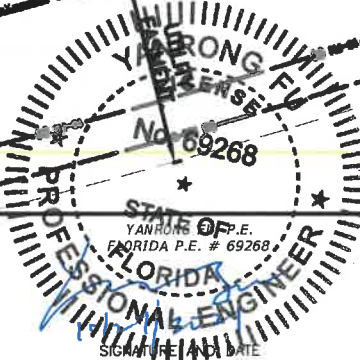


AREA	DESCRIPTION
[Pattern]	MILL & OVERLAY ASPHALT
[Pattern]	NEW CONSTRUCTION
[Pattern]	4" CONCRETE
[Pattern]	6" CONCRETE



1" = 40' Horizontal
1" = 10' Vertical

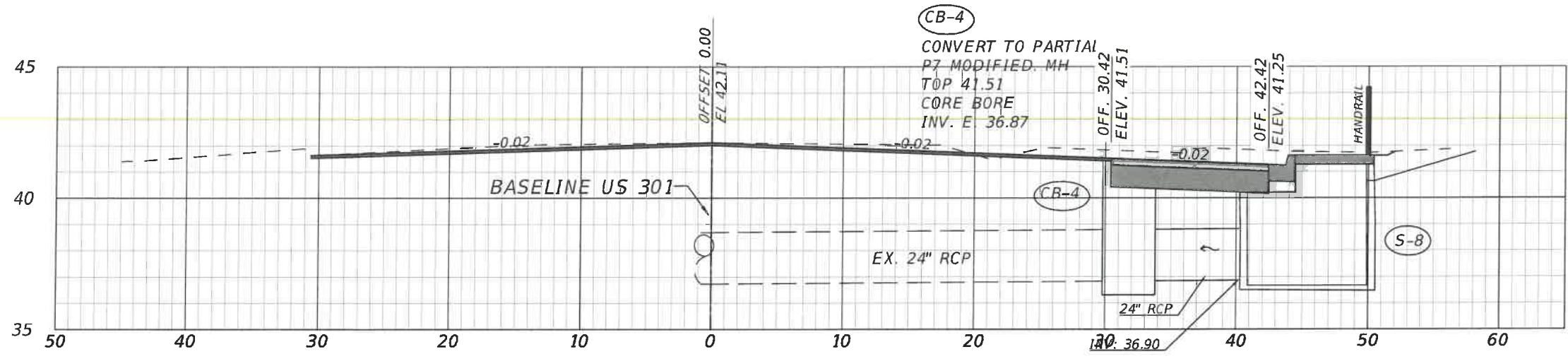
DATE	DESCRIPTION	DATE	PROJECT #	FDOT JPA #	SURVEYED	ZNS
			850-6094060	445308-1-58-01	01/2019	
			N/A		01/2019	
			35/33/19		01/2019	
					08/2021	



Manatee County Florida
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS
POND 1 LAYOUT PLAN

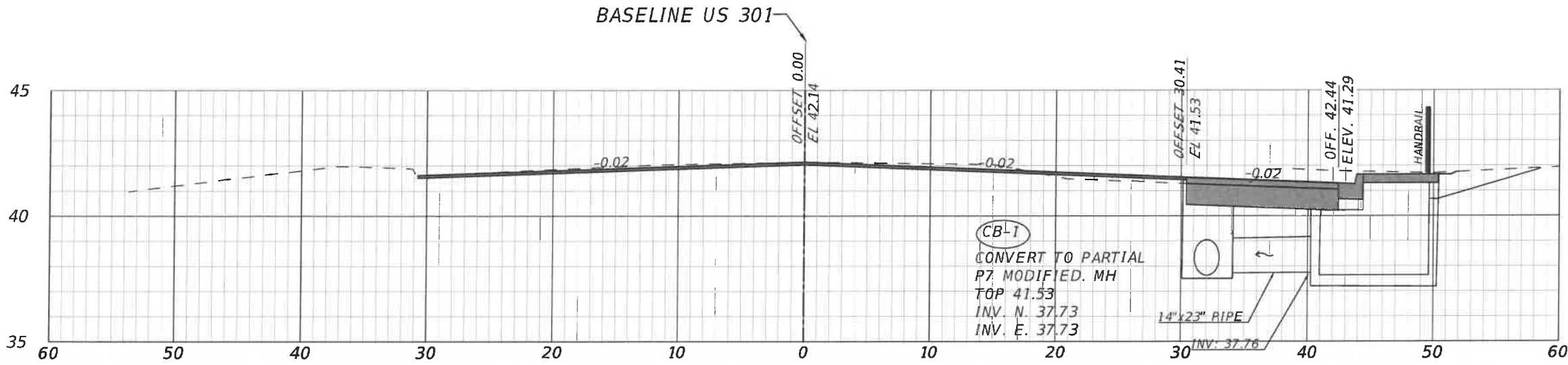
VERTICAL DATUM
NGVD 1929
SHEET NO.
25



303+22

(S-8)

S-8
CURB INLET TYPE 9 (MODIFIED)
MODIFIED 3.5'x9' INSIDE
INDEX 425-010, 423-024
GRATE/ EP : 41.25
E. WINDOW EL. 39.58
(H=6", W=24")
STA. 303+21.41
OFF. 43.12 RT
INV. OUT (W) 36.90



302+99

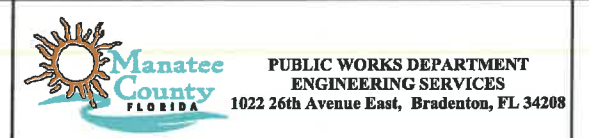
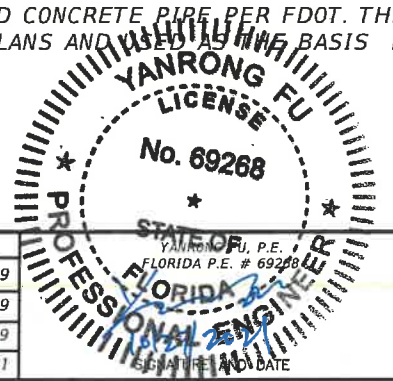
(S-7)

S-7
CURB INLET TYPE 9 (MODIFIED)
MODIFIED 3.5'x9' INSIDE
INDEX 425-010, 425-024
E. WINDOW 39.62
(H=6", W=24")
GRATE/EP: 41.29
STA. 302+98.75
OFF. 43.08 RT
INV. OUT 37.76 W

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

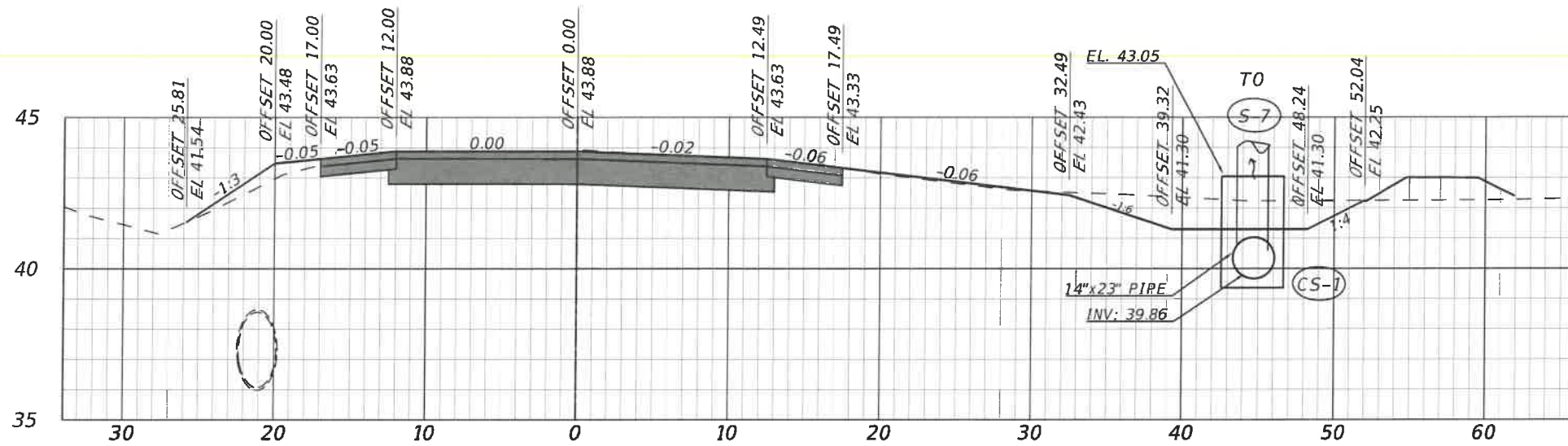
DRAINAGE STRUCTURE NOTES

1. SPECIAL ATTENTION IS DIRECTED TO THE FACT THAT PORTIONS OF SOME DRAINAGE STRUCTURES EXTEND INTO THE STABILIZED PORTION OF THE ROAD BED AND EXTREME CAUTION WILL BE NECESSARY IN STABILIZATION OPERATIONS AT THE LOCATIONS.
2. ALL DRAINAGE PIPES AND STRUCTURES SHALL BE REINFORCED CONCRETE PIPE PER FDOT. THERE WILL BE NO OPTIONAL MATERIALS ALLOWED. ERCP IS PLOTTED ON THE PLANS AND SHALL BE USED ON A PER UNIT BASIS FOR PAY QUANTITIES.



H:\Highway\Engineering\PRO\INTERSECTION\SR 62\301\Eng\DWG\RAINAGE STRUCTURES.dwg - Aug 31 21 1:19 PM

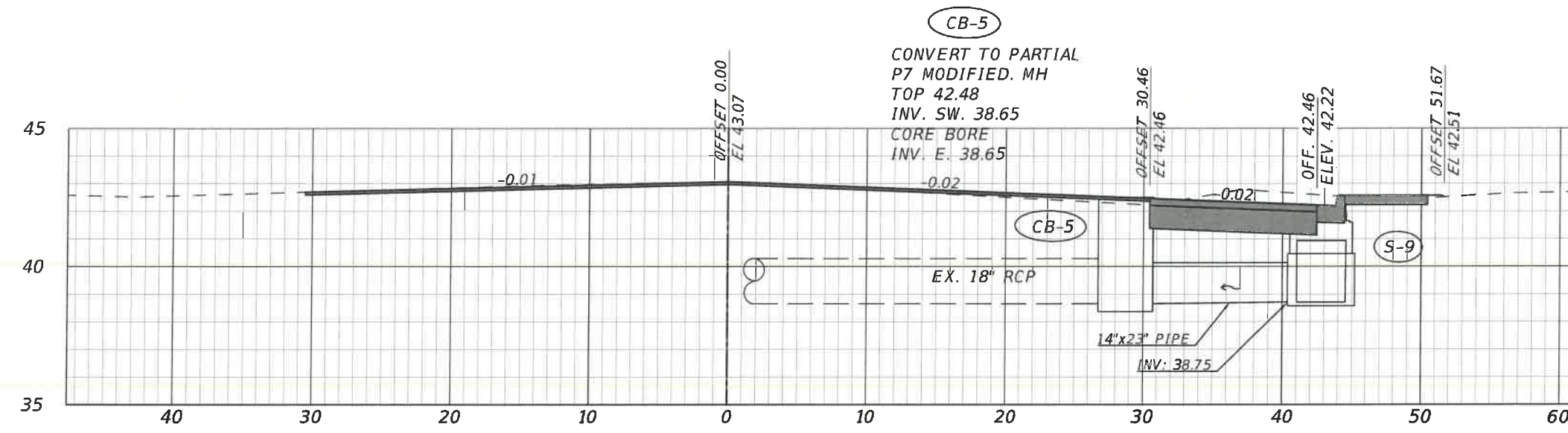
DATE	DESCRIPTION	DATE	FDOT FPID #	445308-1-58-01				ERIE RD. AND SR 62 IMPROVEMENTS DRAINAGE STRUCTURES	VERTICAL DATUM	NGVD 1929
			PROJECT #	850-6094060	SURVEYED	ZNS	01/2019			
			SURVEY #	N/A	DESIGNED	MCG	01/2019			
			SEC./TWN./RGE	35/33/19	DRAWN	MCG	01/2019			SHEET NO.
			SCALE		CHECKED	SF	08/2021			26



120+79

(CS-1)

CS1
 TYPE D INLET MODIFIED
 WIER ELEVATION (W) 41.55
 6" UD INVERT 39.90
 4'-1" x 3'-1" INSIDE
 GRATE 43.05
 STA. 120+79.21
 OFF. 44.64 RT
 INV. OUT 39.86 E



304+91

(S-9)

S-9
 CURB INLET TYPE 9
 INDEX 425-024
 GRATE/EP: 42.22
 STA. 304+90.36
 OFF. 43.53 RT
 INV. OUT 38.75 W

YANRONG FU
 LICENSE FU
 No. 69268
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

Manatee County
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS

DRAINAGE STRUCTURES

VERTICAL DATUM
 NGVD 1929

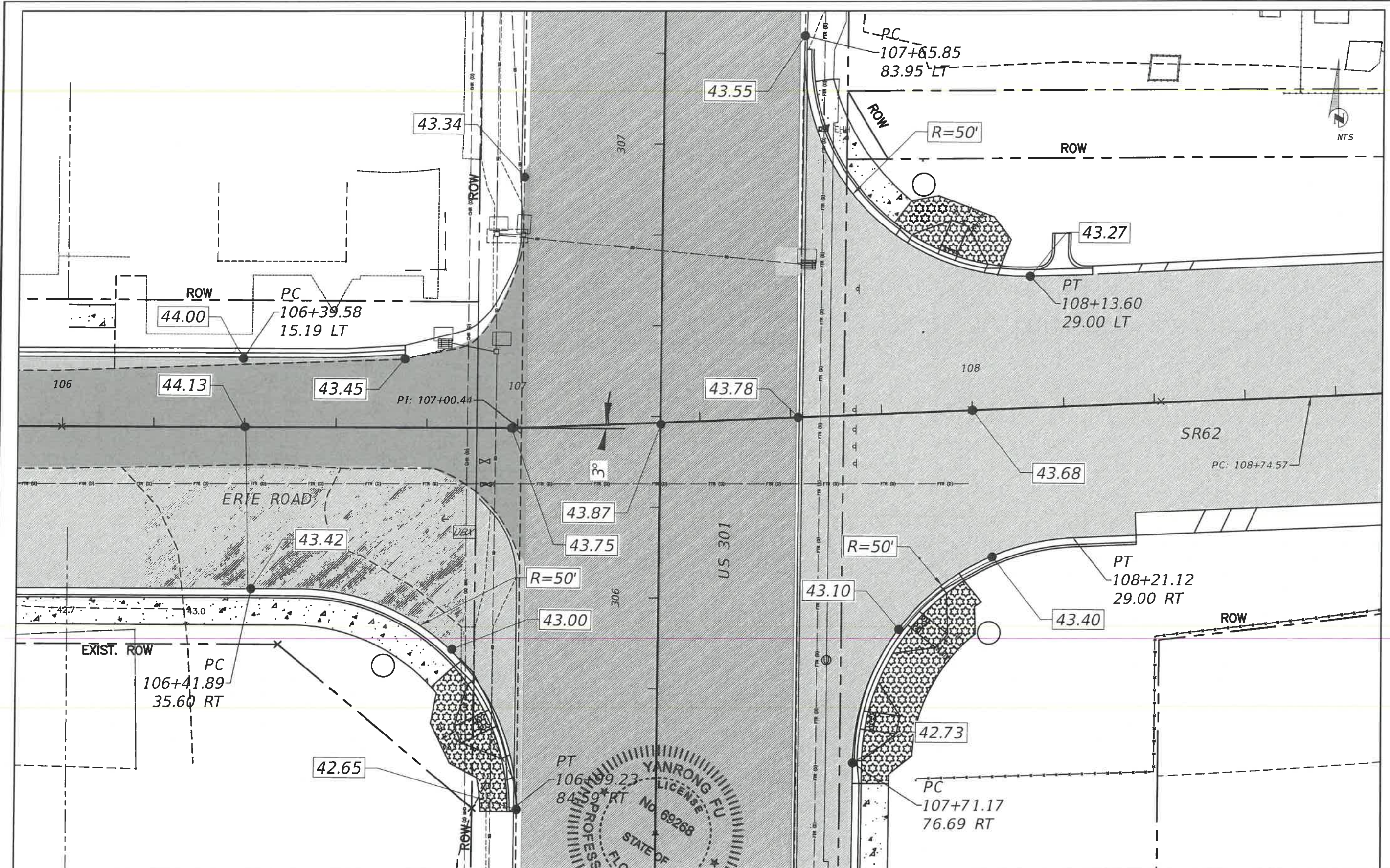
SHEET NO.
 27

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DATE	DESCRIPTION	DATE				
			FDOT FPID #	445308-1-58-01		
			PROJECT #	850-6094060	SURVEYED	ZNS 01/2019
			SURVEY #	N/A	DESIGNED	MCG 01/2019
			SEC./TWN./RGE	35/33/19	DRAWN	MCG 01/2019
			SCALE		CHECKED	SF 08/2021

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

H:\Highway\Engineering\PROJ\INTERSECTION\SR 62\301 ERIE\DWG\DP ERIE SR 62.dwg, Aug 31 21 1:31 PM



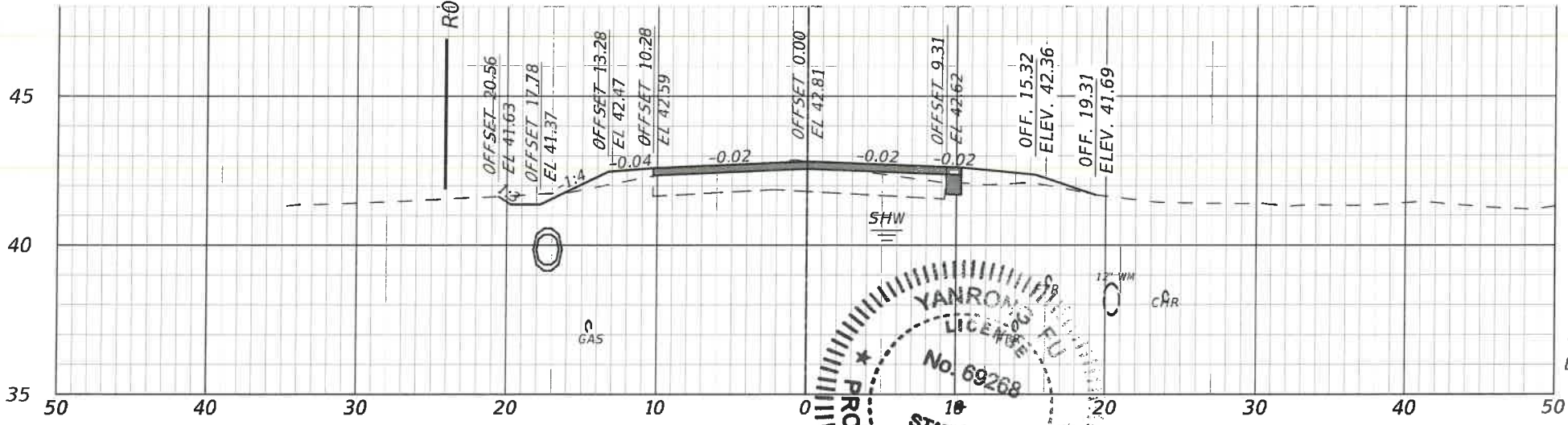
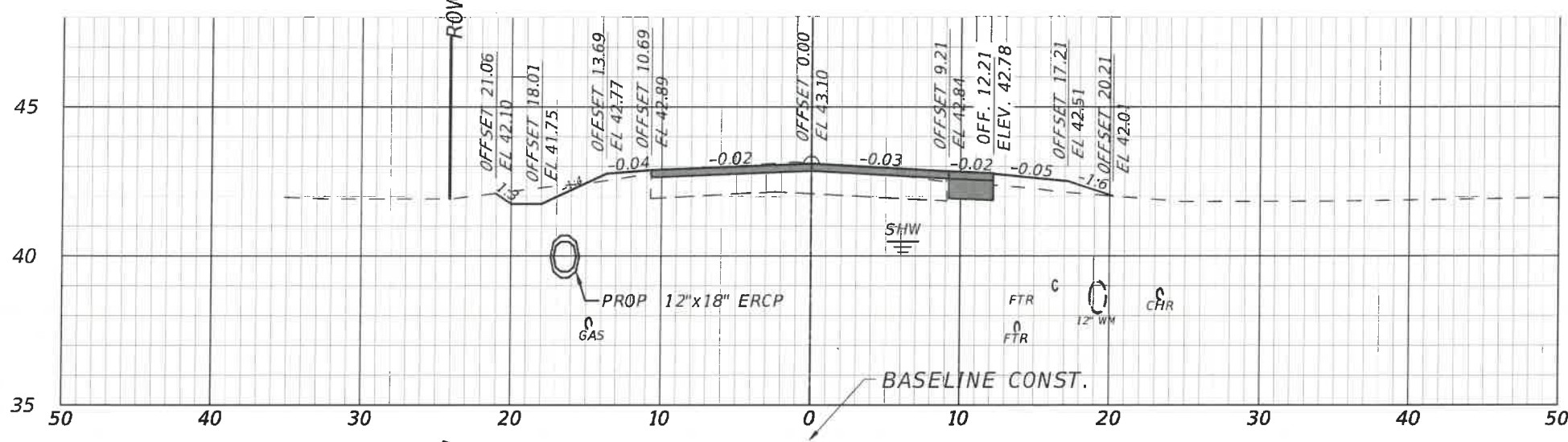
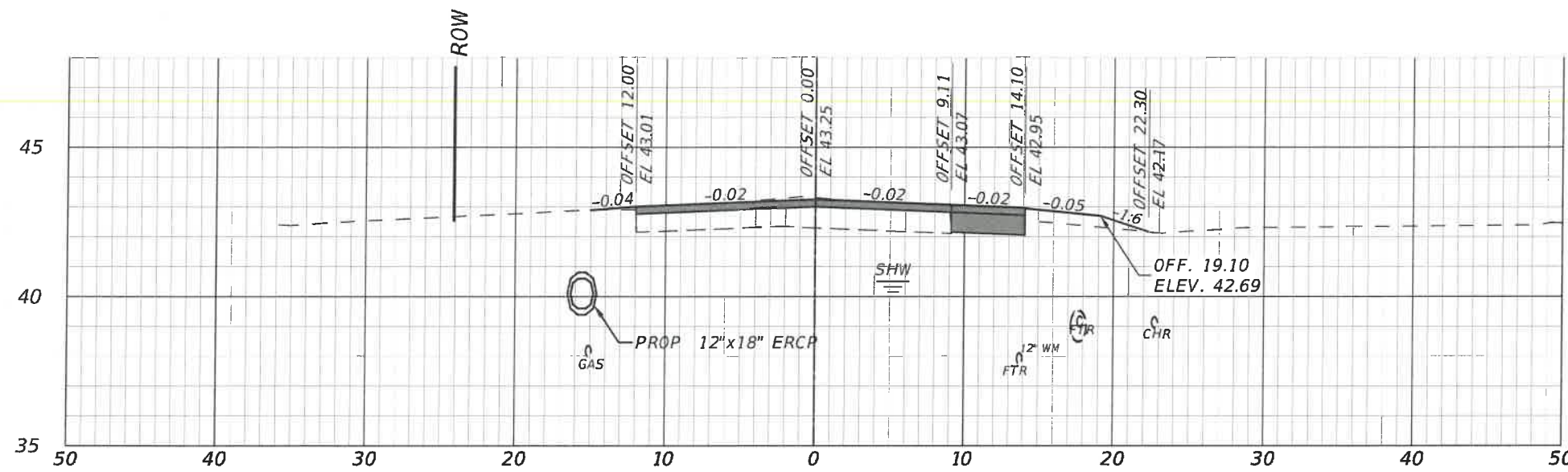
PT 106+09.23
 84.00 RT
 YANRONG FU
 LICENSE # 69268
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 10/27/2021
 SIGNATURE AND DATE


Manatee County
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS
 INTERSECTION LAYOUT PLAN

VERTICAL DATUM
 NGVD 1929
 SHEET NO.
 28

DATE	DESCRIPTION	DATE	FDOT FPID #	445308-1-58-01
			PROJECT #	850-6094060
			SURVEYED	ZNS 01/2019
			DESIGNED	MCG 01/2019
			DRAWN	MCG 01/2019
			CHECKED	SF 08/2021



Regular		Exc.		Embankment	
A (sf)	V (cy)	A (sf)	V (cy)	A (sf)	V (cy)
3.3	8.2	2.6	5.9		
5.6	6.4	3.8	9.4		
1.0	0.0	6.0	0.0		

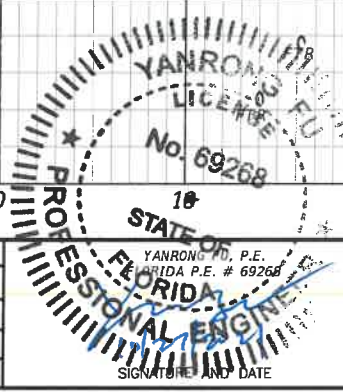
NOTE:
ALL EXISTING UTILITIES
SHOWN ARE APPROXIMATE
AND ARE TO BE VERIFIED BY
THE CONTRACTOR BEFORE
CONSTRUCTION

BEGIN PROJECT
BEGIN CONSTRUCTION
BEGIN MILLING AND RESURFACING
BEGIN EARTHWORK

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

H:\Highway\Engineering\PROJ\INTERSECTION\SR 62\301_Erial\DWG\XSECT.dwg, Sep 1, 2019 7:46 AM

DATE	DESCRIPTION	DATE	FDOT FPID #	PROJECT #	SURVEYED	ZNS	01/2019
			445308-1-58-01	850-6094060			
					DESIGNED	MCG	01/2019
					DRAWN	MCG	01/2019
					CHECKED	SF	08/2021

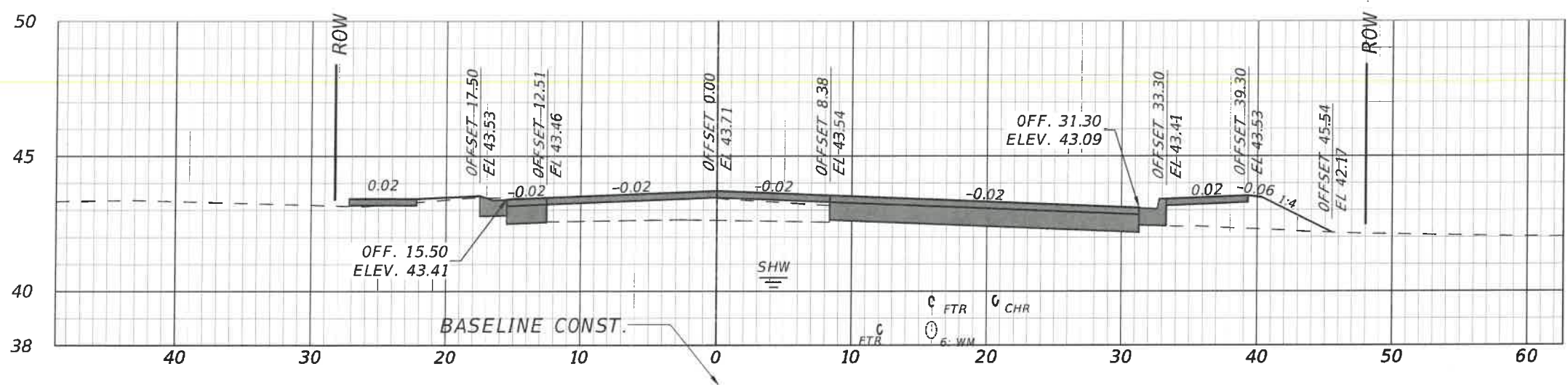


Manatee County
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

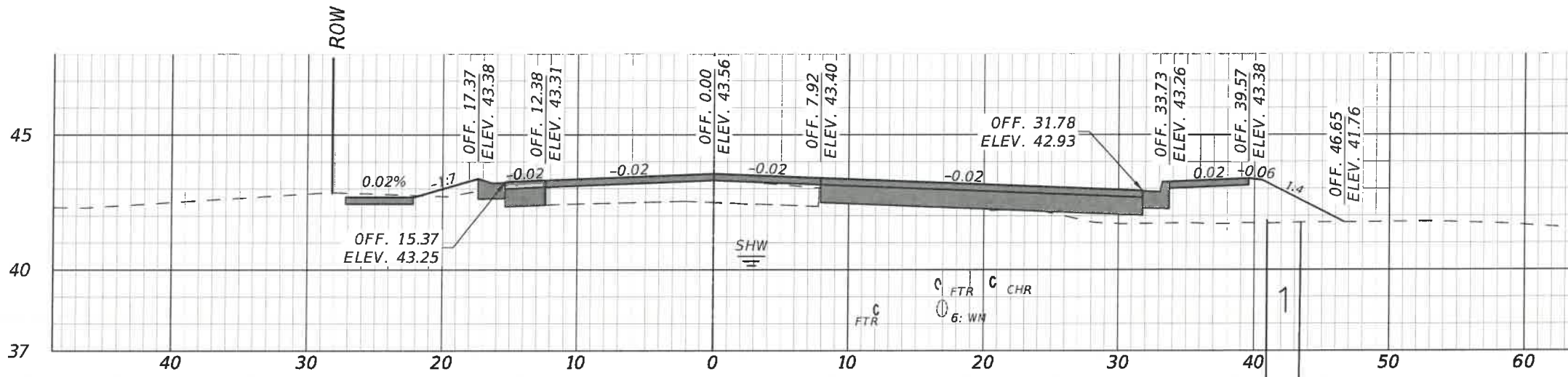
ERIE RD. AND SR 62 IMPROVEMENTS
CROSS SECTIONS
STA. 102+50 TO 103+50

VERTICAL DATUM
NGVD 1929

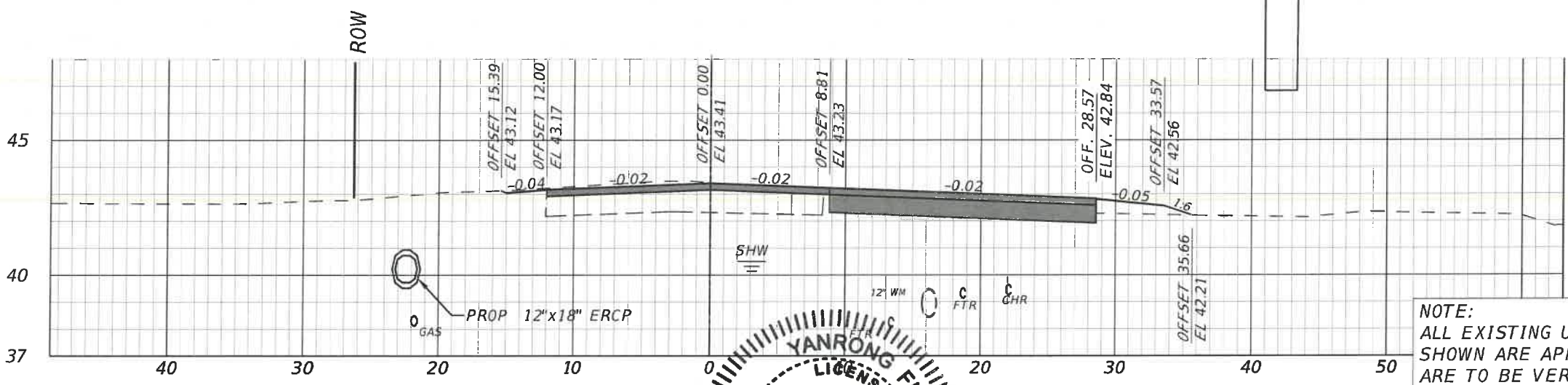
SHEET NO.
29



105+00



104+50



104+00

Regular		Exc.		Embankment	
A (sf)	V (cy)	A (sf)	V (cy)	A (sf)	V (cy)
17.1	21.6	9.4			26.9
6.2	14.4	19.7			21.0
9.4	11.8	3.0			5.2

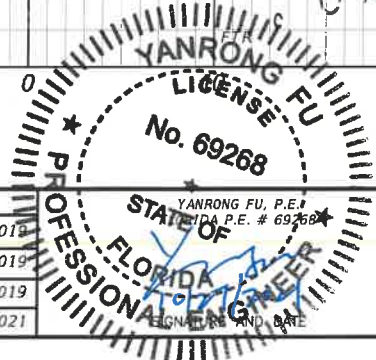
NOTE:
ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND ARE TO BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION

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

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DATE	DESCRIPTION	DATE

FDOT FPID #	445308-1-58-01	SURVEYED	ZNS	01/2019
PROJECT #	850-6094060	DESIGNED	MCG	01/2019
SURVEY #	N/A	DRAWN	MCG	01/2019
SEC./TWN./RGE	35/33/19	CHECKED	SF	08/2021
SCALE				



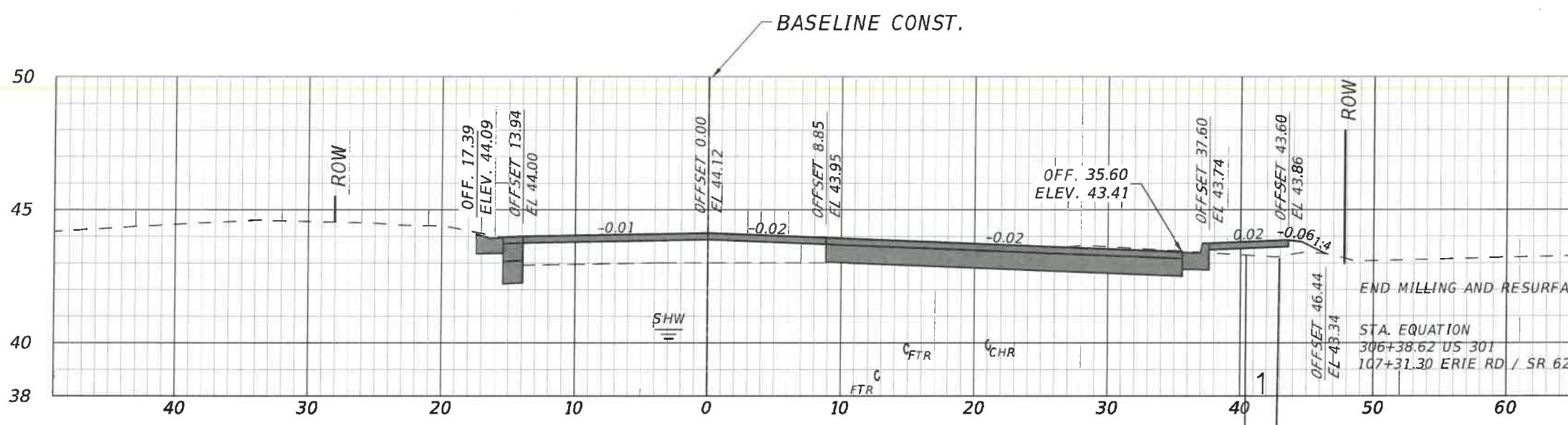
Manatee County
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS
CROSS SECTIONS
STA. 104+00 TO 105+00

VERTICAL DATUM
NGVD 1929

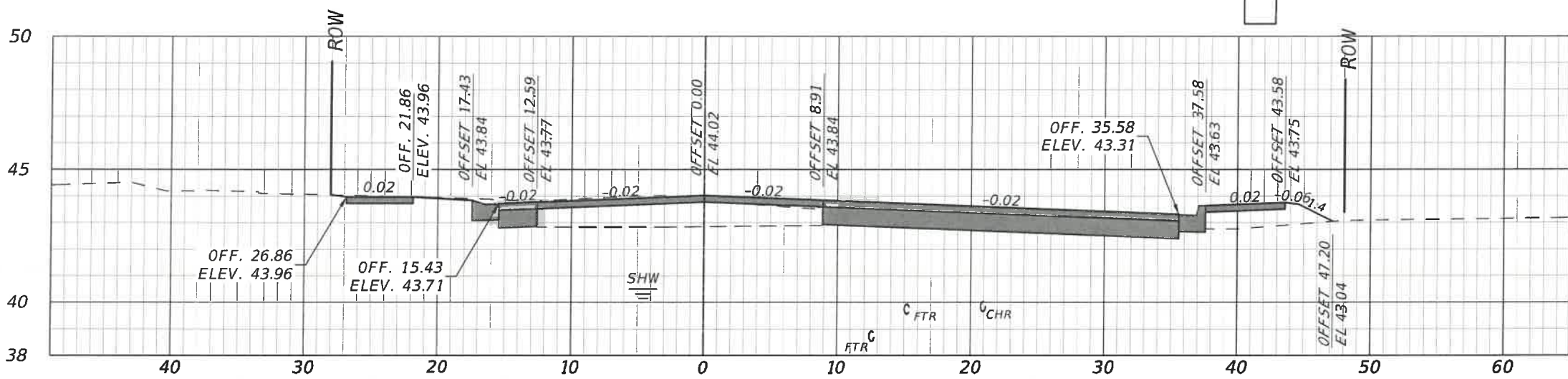
SHEET NO.
30

Regular		Exc.		Embankment	
A (sf)	V (cy)	A (sf)	V (cy)	A (sf)	V (cy)



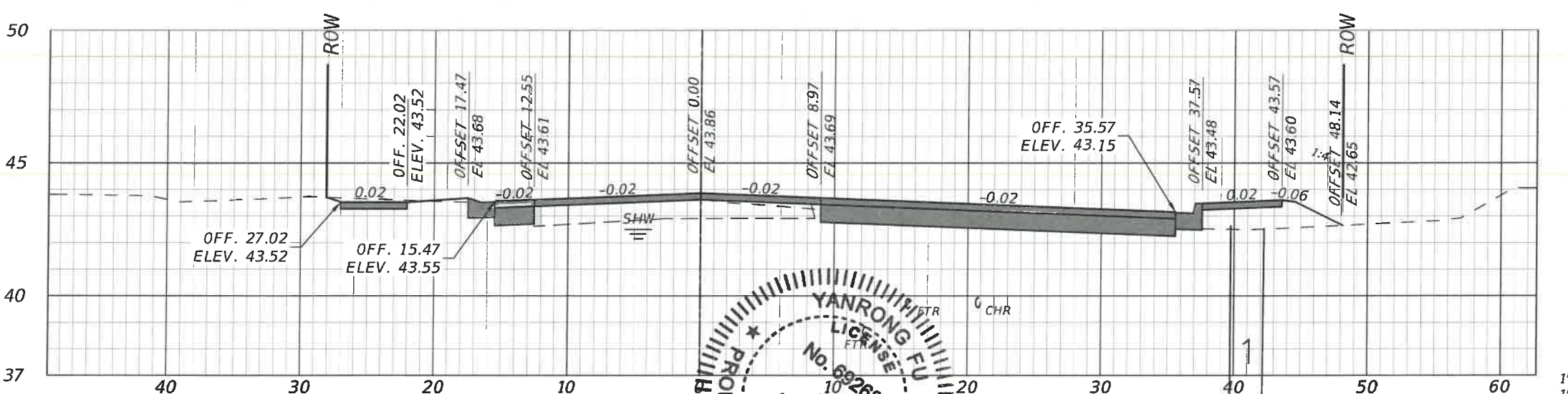
106+42

24.3	33.4	2.5	6.4
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106+00

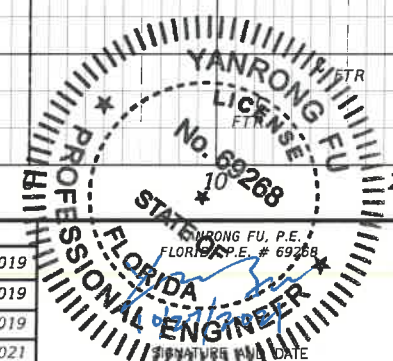
18.6	31.3	5.7	12.2
------	------	-----	------



105+50

15.2	29.9	7.5	15.6
------	------	-----	------

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



Manatee County
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS
CROSS SECTIONS
STA. 105+50 TO 105+42
VERTICAL DATUM NGVD 1929
SHEET NO. 37

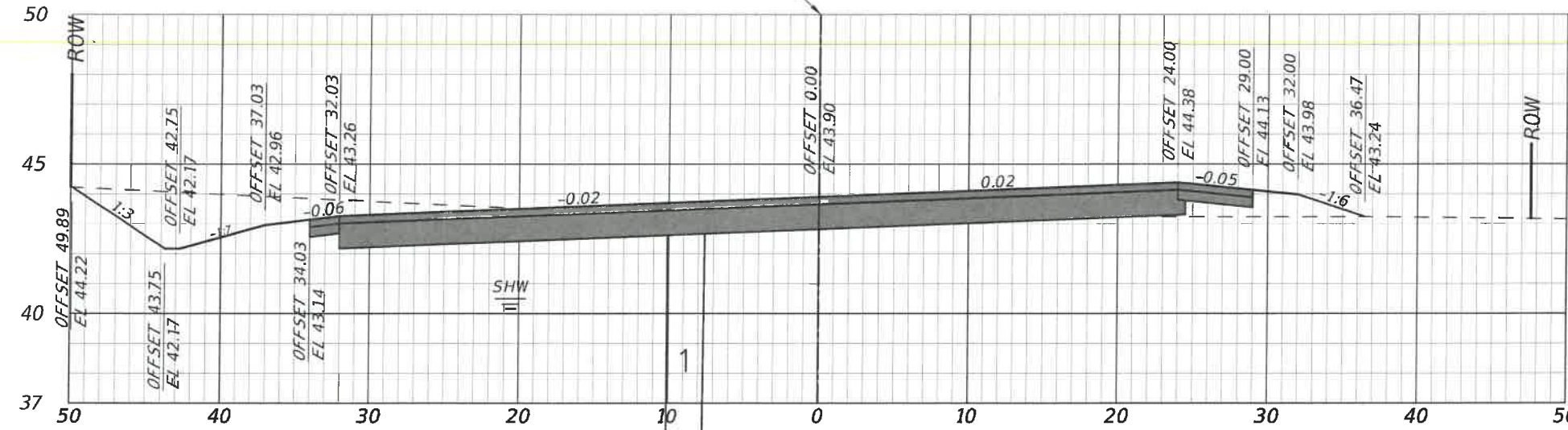
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DATE	DESCRIPTION	DATE

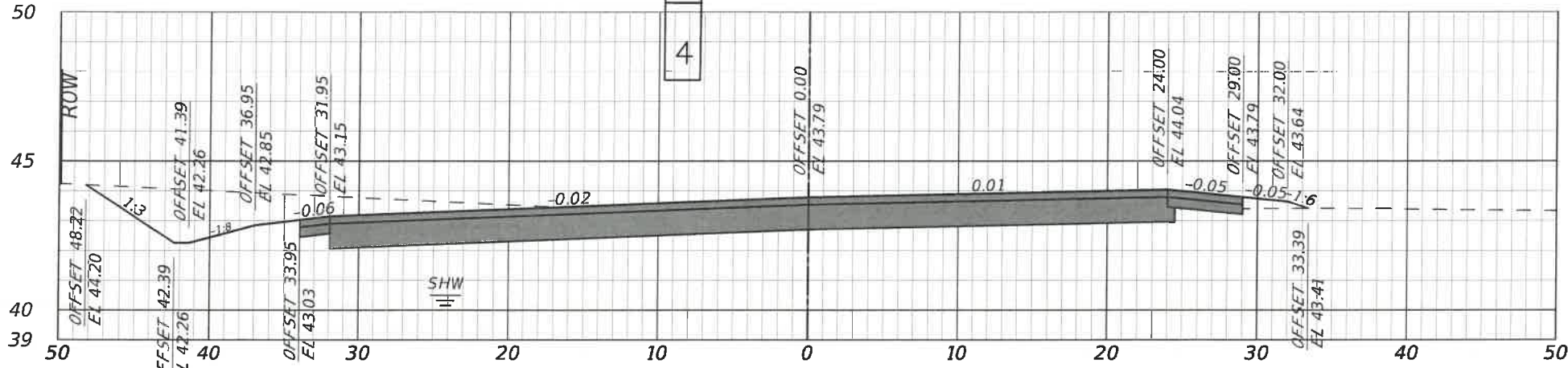
FDOT FPID #	445308-1-58-01
PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	

SURVEYED	ZNS	01/2019
DESIGNED	MCG	01/2019
DRAWN	MCG	01/2019
CHECKED	SF	08/2021

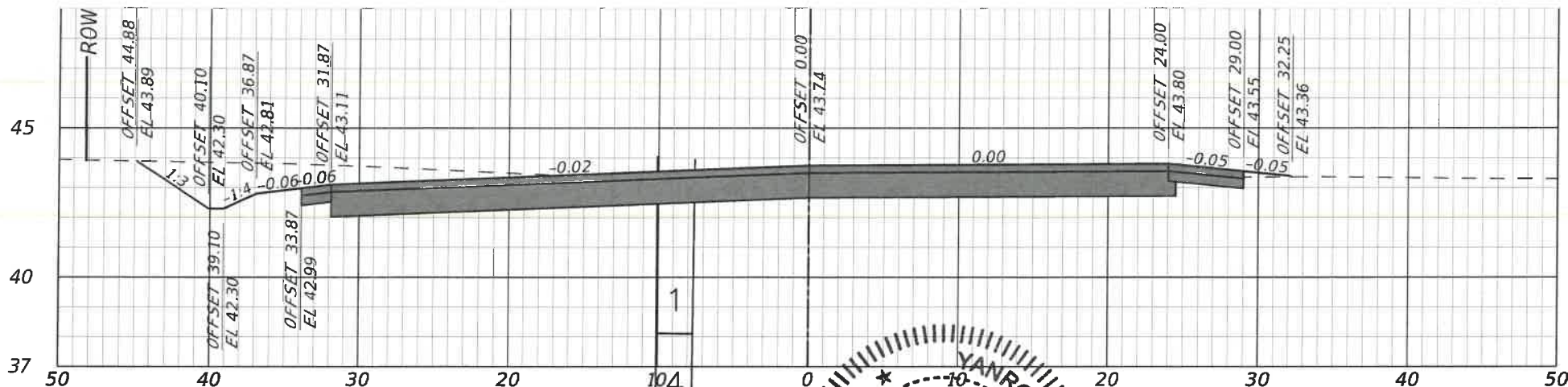
BASELINE CONST.



109+00



108+50



108+29

Regular		Exc.		Embankment	
A (sf)	V (cy)	A (sf)	V (cy)	A (sf)	V (cy)
56.3	115.3	6.0	6.6		
68.2	94.2	1.1	2.9		
35.5	0	2.0	0		

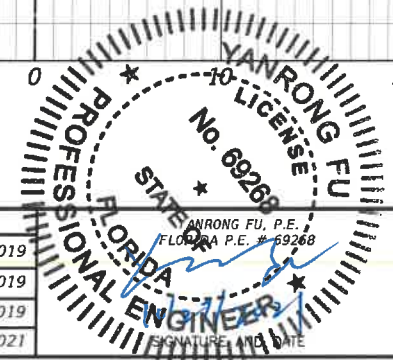
1" = 10' Horizontal
1" = 5' Vertical

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DATE	DESCRIPTION	DATE

FDOT FPID #	445308-1-58-01
PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	

SURVEYED	ZNS	01/2019
DESIGNED	MCG	01/2019
DRAWN	MCG	01/2019
CHECKED	SF	08/2021



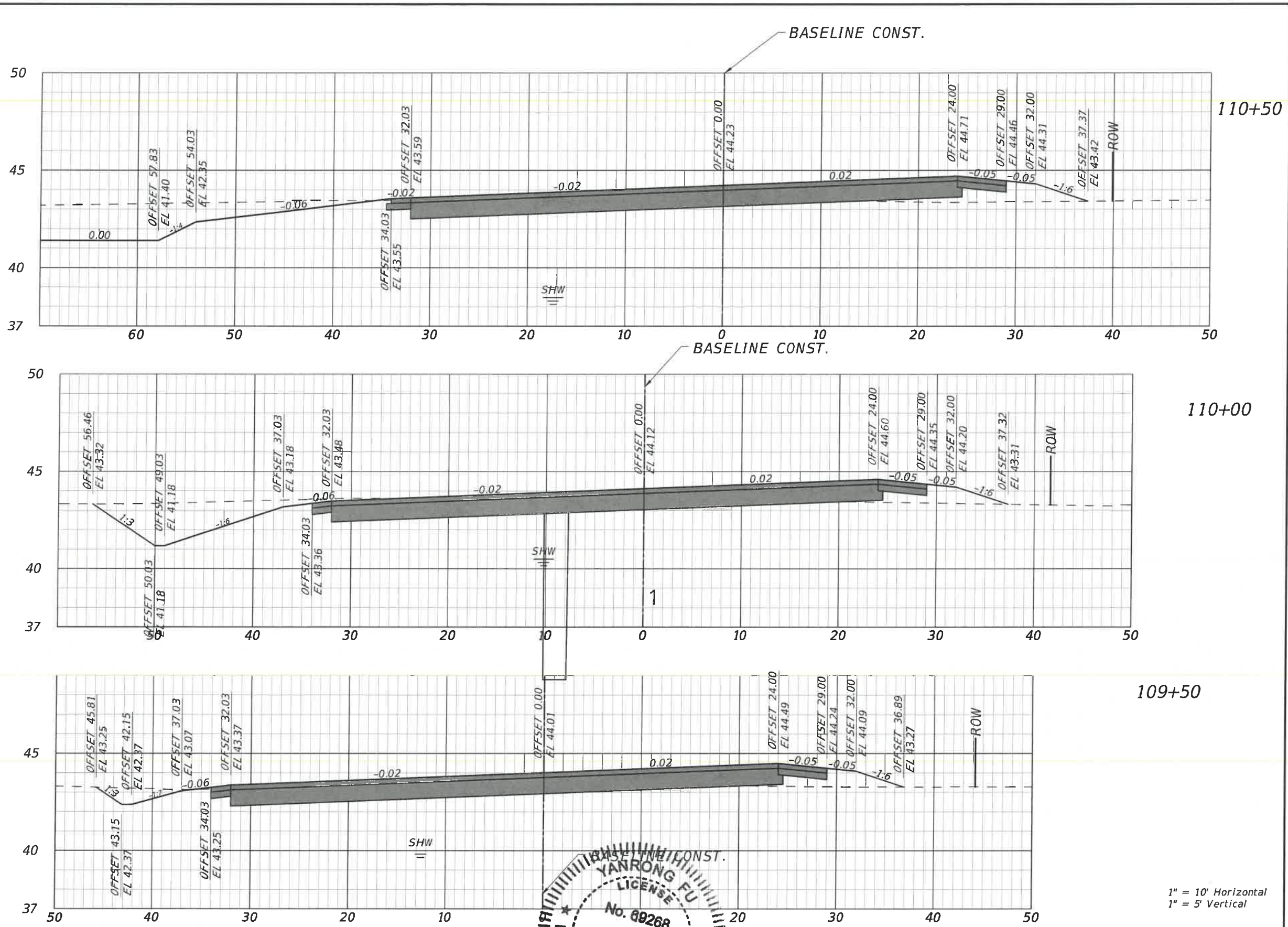
**PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES**
1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS

**CROSS SECTIONS
STA. 108+29 TO 109+00**

VERTICAL DATUM
NGVD 1929

SHEET NO.
32



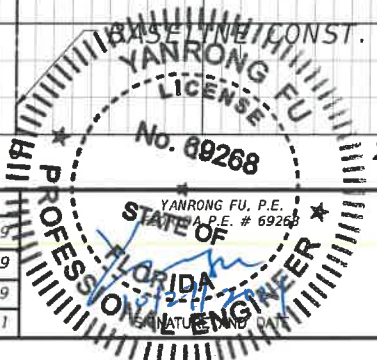
Regular		Exc.		Embankment	
A (sf)	V (cy)	A (sf)	V (cy)	A (sf)	V (cy)
41.8	94.5			8.7	14.5
60.3	89.4			7.0	12.8
40.7	89.8			6.8	11.9

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

H:\Highway\Engineering\PROJ\INTERSECTION\SR 62\301 Eria\DWG\CROSS\SECT.dwg - Sun 1/21/2021 7:52 AM

DATE	DESCRIPTION	DATE

FDOT FPID #	445308-1-58-01
PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	
SURVEYED	ZNS 01/2019
DESIGNED	MCG 01/2019
DRAWN	MCG 01/2019
CHECKED	SF 08/2021



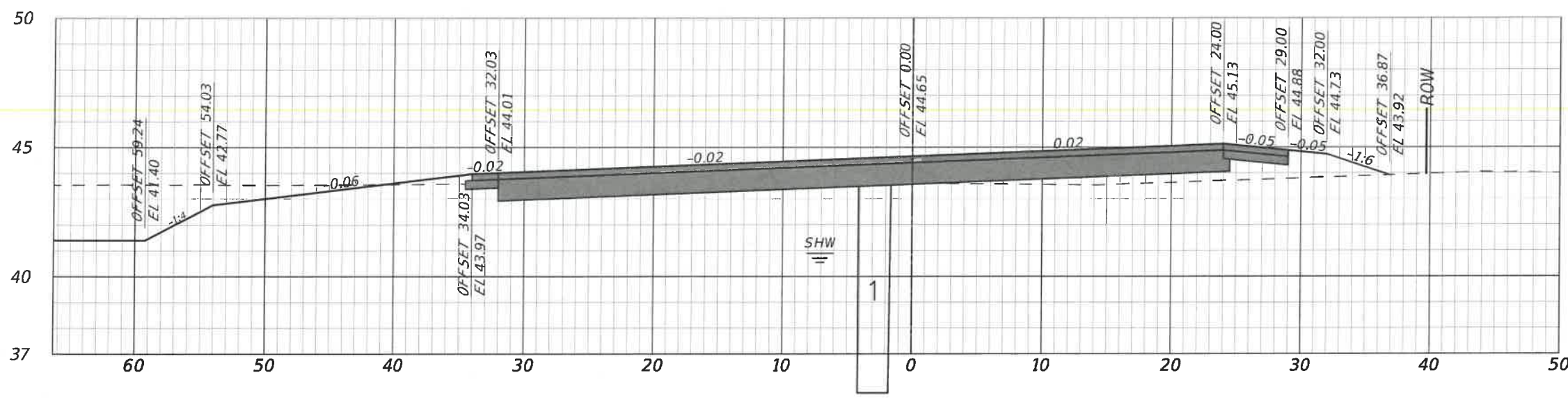
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS

CROSS SECTIONS
STA. 109+50 TO 110+50

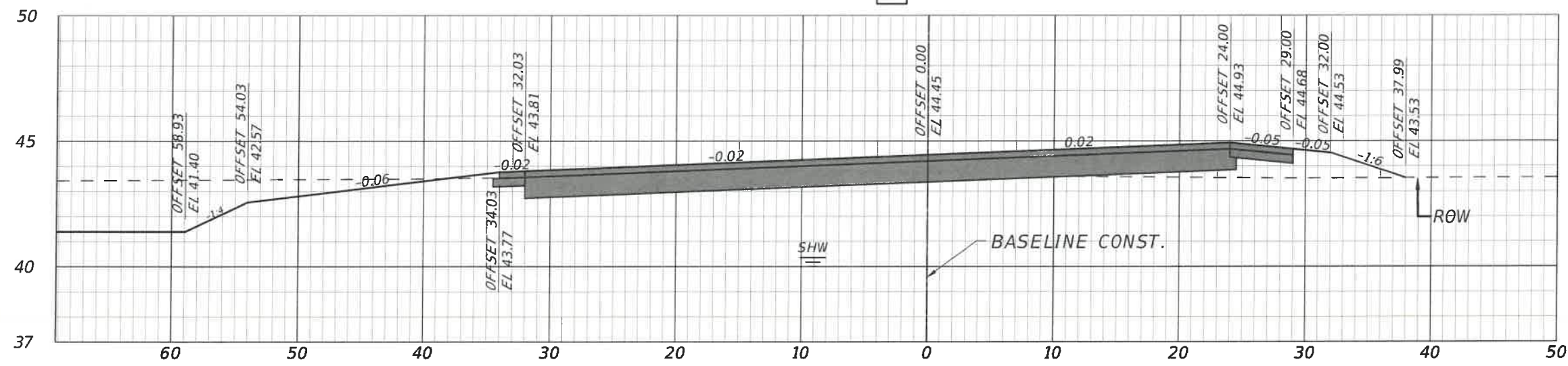
VERTICAL DATUM
NGVD 1929

SHEET NO.
33

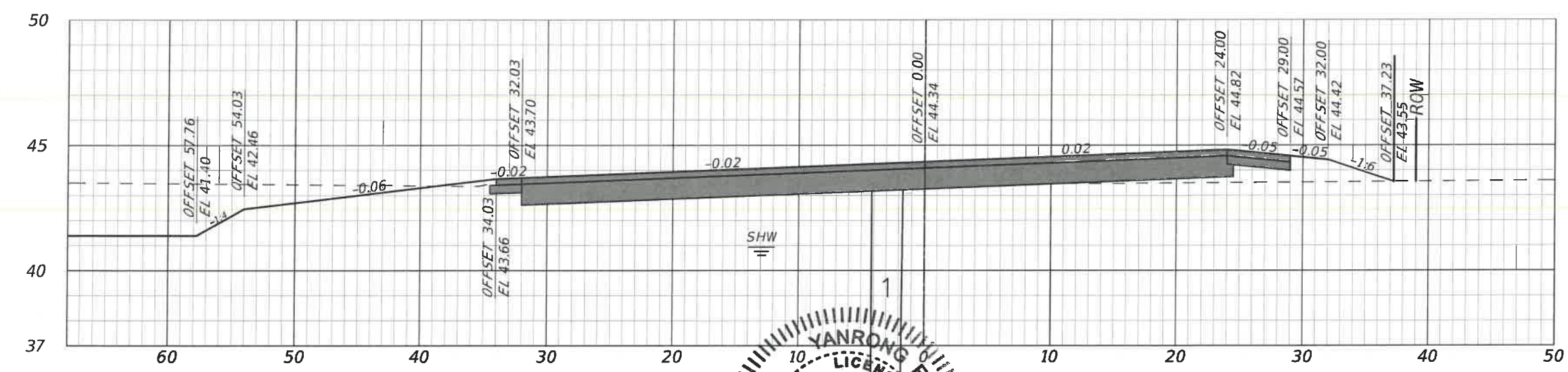


112+00

Regular		Exc.		Embankment	
A (sf)	V (cy)	A (sf)	V (cy)	A (sf)	V (cy)
28.1	58.8	16.3	23.7		
35.4	43.1	10.5	18.1		
35.3	55.9	9.0	16.4		

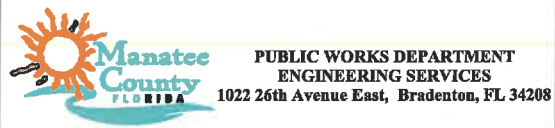
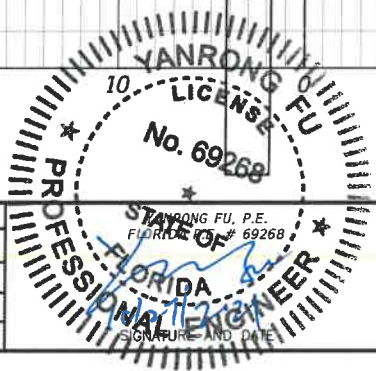


111+50



111+00

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



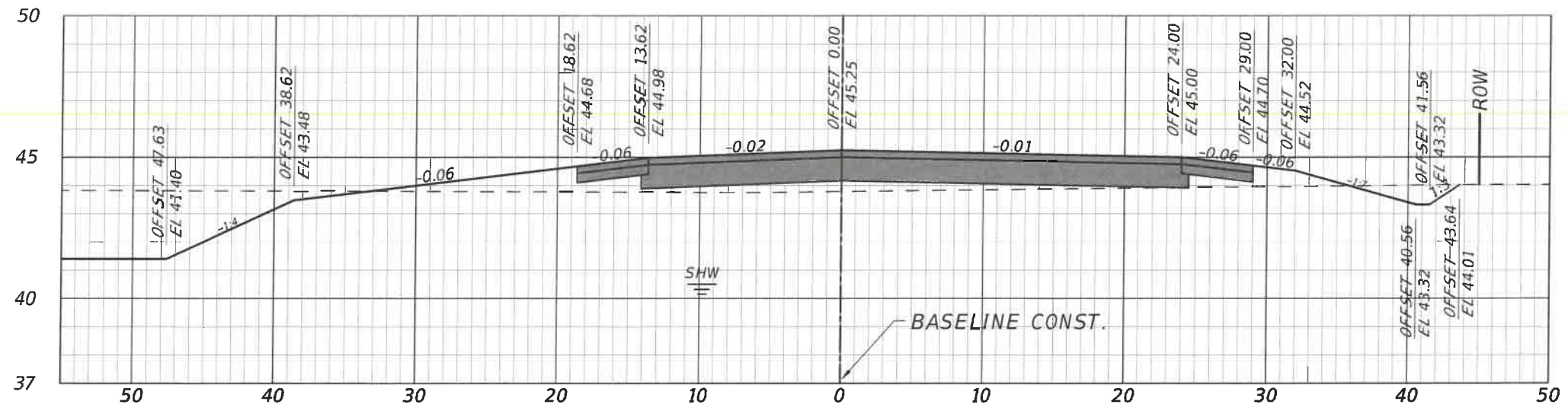
ERIE RD. AND SR 62 IMPROVEMENTS

CROSS SECTIONS
STA. 111.00 TO 112.00

VERTICAL DATUM
NGVD 1929
SHEET NO.
34

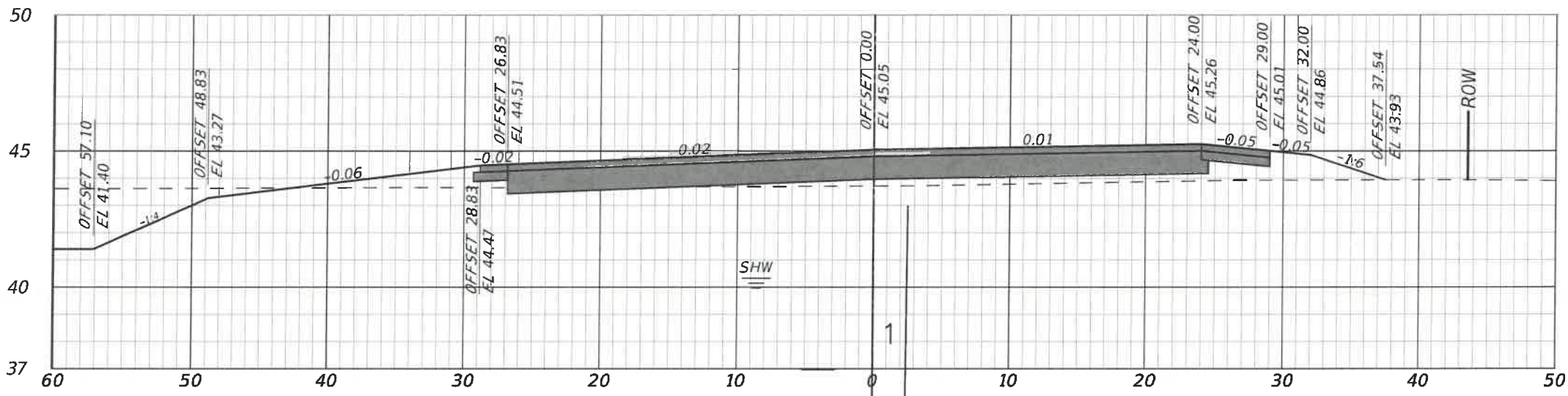
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DATE	DESCRIPTION	DATE			
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			PROJECT #	850-6094060	SURVEYED ZNS 01/2019
			SURVEY #	N/A	DESIGNED MCG 01/2019
			SEC./TWN./RGE	35/33/19	DRAWN MCG 01/2019
			SCALE		CHECKED SF 08/2021

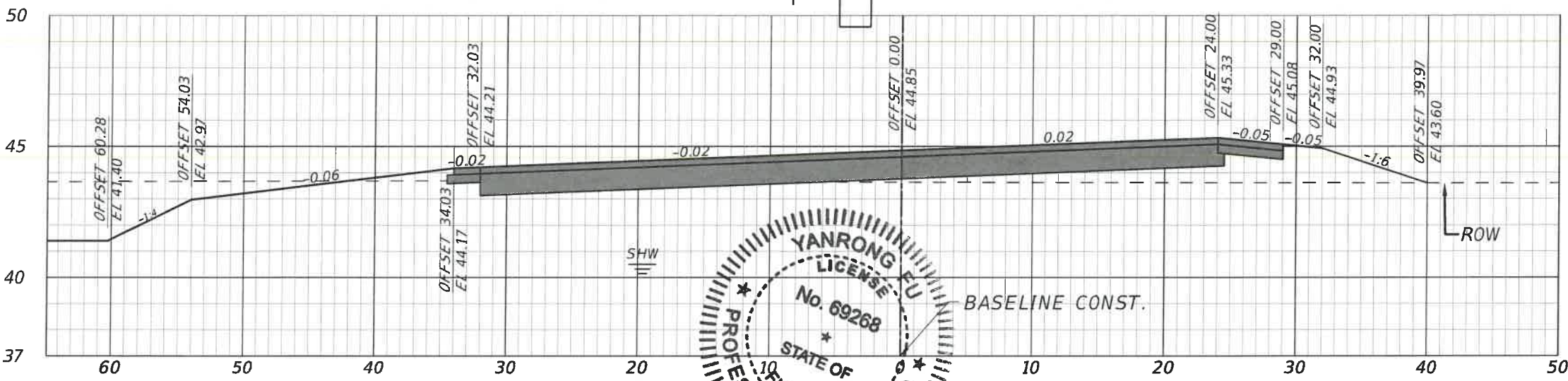


113+50

Regular		Exc.		Embankment	
A (sf)	V (cy)	A (sf)	V (cy)	A (sf)	V (cy)
3.0	4.2	22.5	45.5		
1.5	15.6	26.6	51.2		
15.3	40.2	28.7	41.7		



113+00



112+50

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

H:\Highway\Engineering\PROJ\INTERSECTION\SR 62\301 Eria\DWG\CROSSSECT.dwg... 1/21/2021 8:08 AM

DATE	DESCRIPTION	DATE

FDOT FPID #	445308-1-58-01
PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	

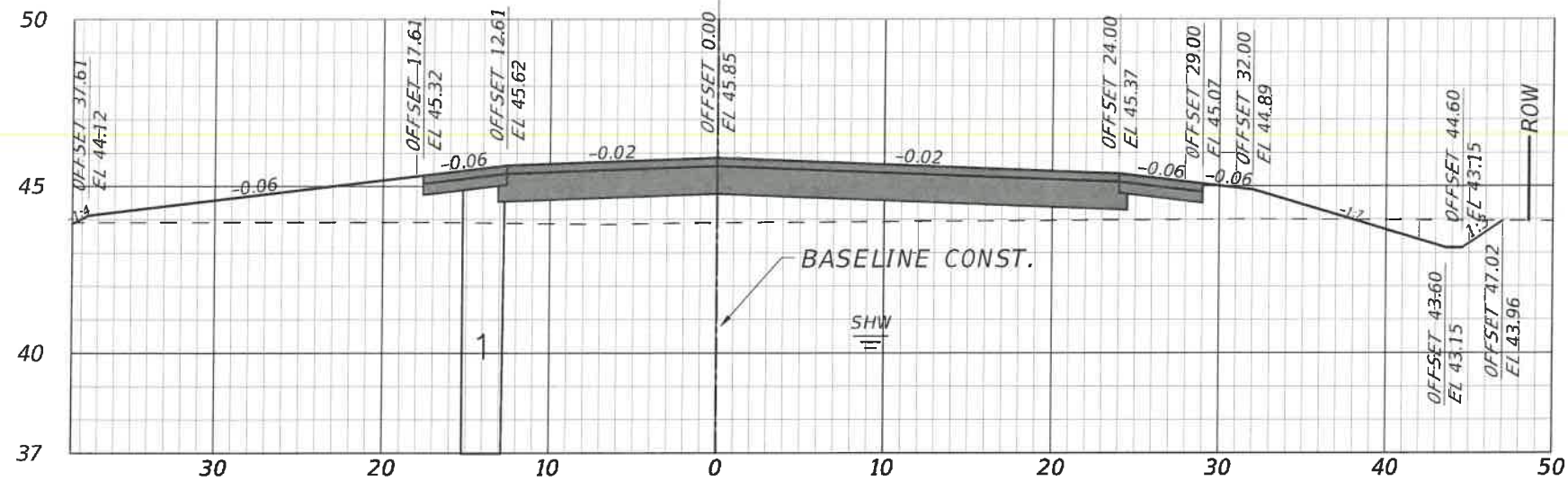
SURVEYED	ZNS	01/2019
DESIGNED	MCG	01/2019
DRAWN	MCG	01/2019
CHECKED	SF	08/2021

YANRONG FU
 LICENSE NO. 69268
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 12/21/2021
 SIGNATURE AND DATE

PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

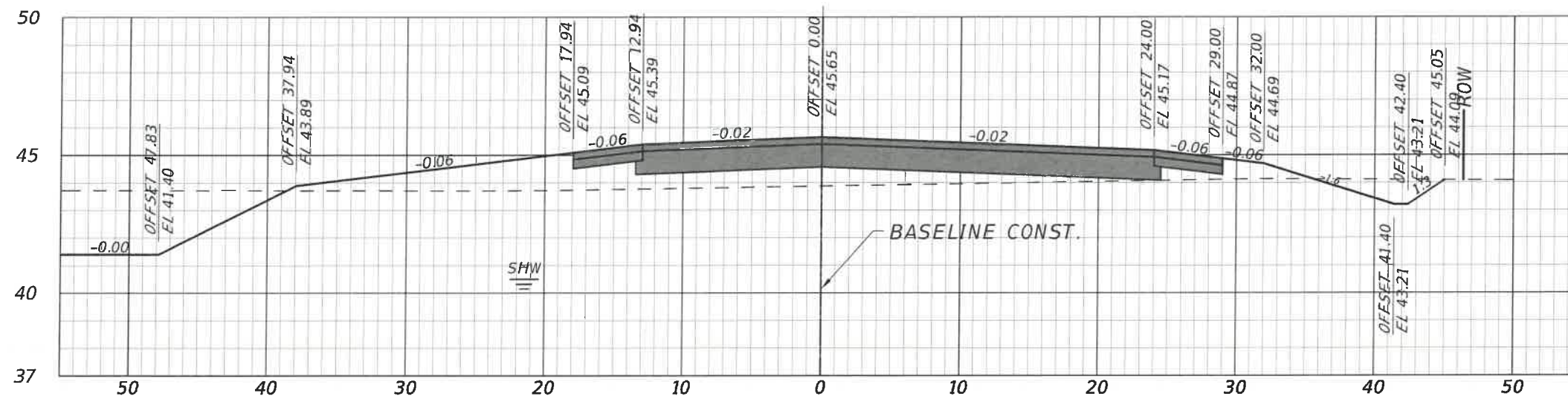
ERIE RD. AND SR 62 IMPROVEMENTS
CROSS SECTIONS
STA. 112+50 TO 113+50

VERTICAL DATUM NGVD 1929
SHEET NO. 35

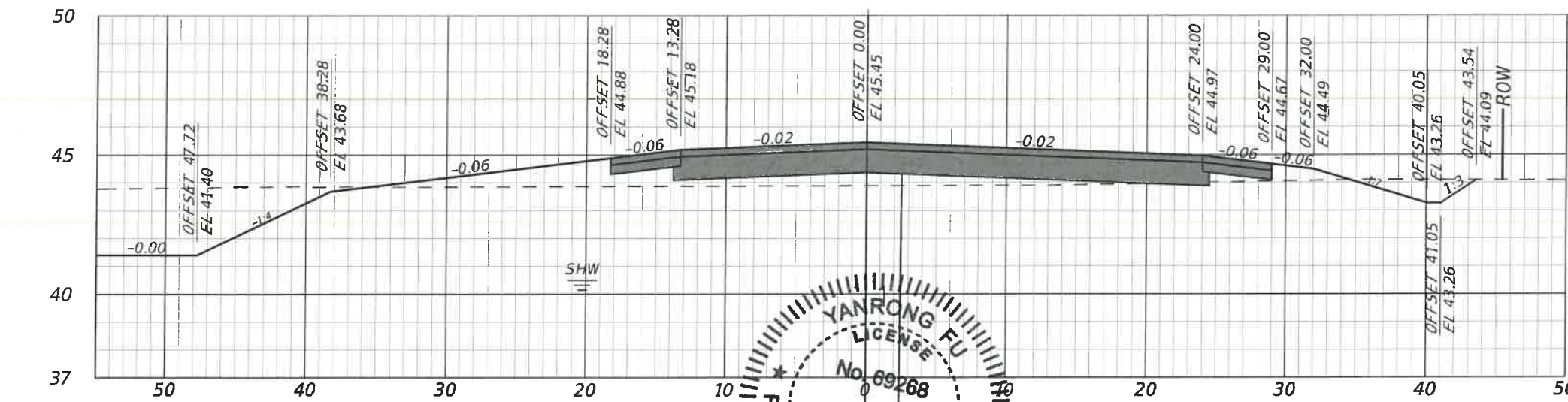


115+00

STA. EQUATION
201+91.90 SR 62 CONNECTION
115+54.00 SR 62



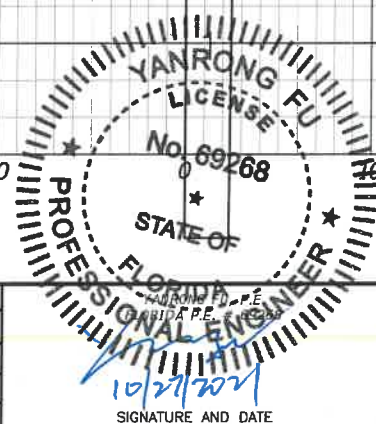
114+50



114+00

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

Regular		Exc.		Embankment	
A (sf)	V (cy)	A (sf)	V (cy)	A (sf)	V (cy)
4.1	8.1			53.3	90.0
4.7	8.2			43.9	67.3
4.2	6.7			28.8	47.5



ERIE RD. AND SR 62 IMPROVEMENTS

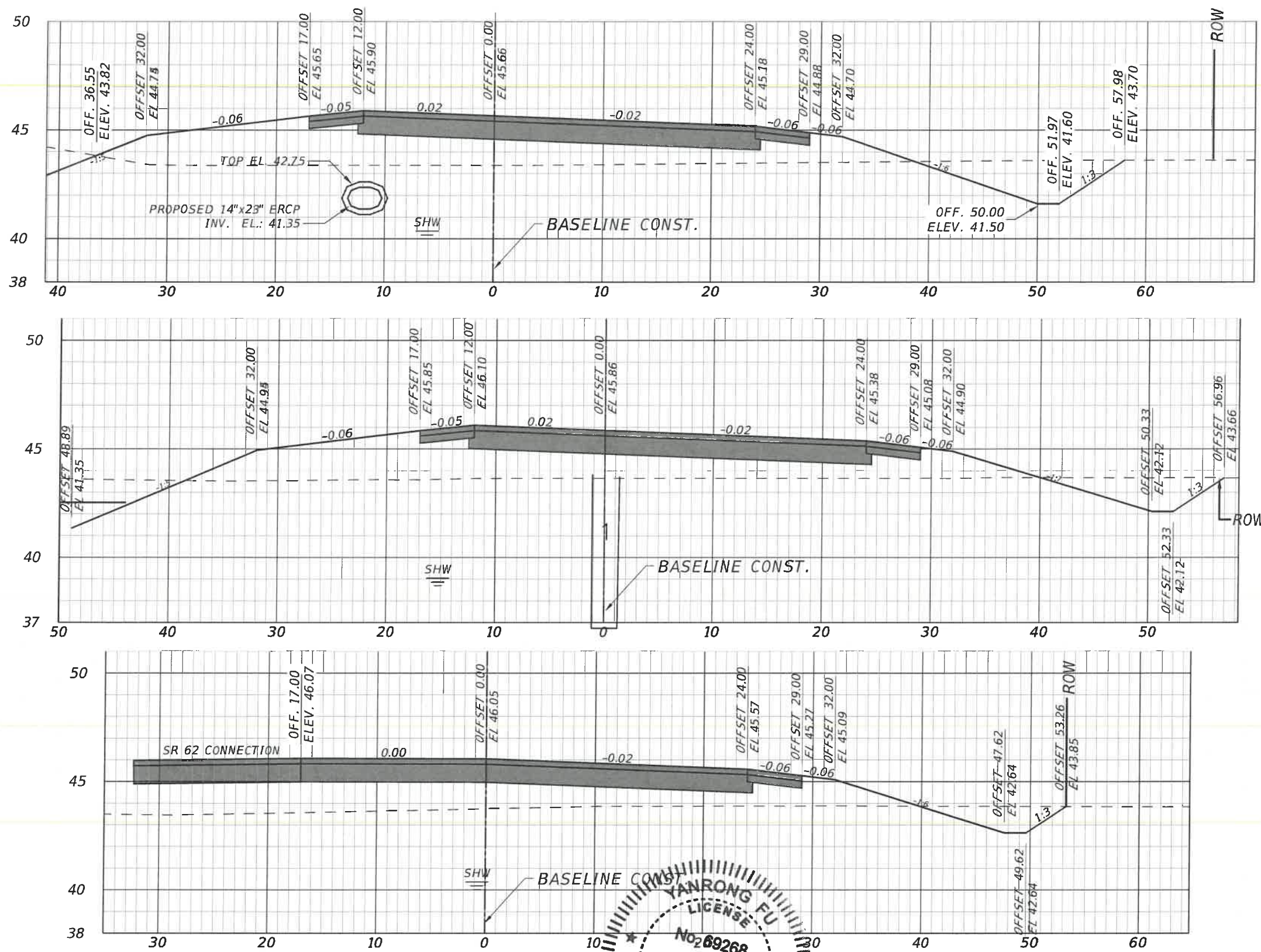
CROSS SECTIONS
STA. 114+00 TO 115+00

VERTICAL DATUM
NGVD 1929
SHEET NO.
36

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DATE	DESCRIPTION	DATE	DATE	DATE

FDOT FPID #	445308-1-58-01
PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	
SURVEYED	ZNS 01/2019
DESIGNED	MCG 01/2019
DRAWN	MCG 01/2019
CHECKED	SF 08/2021



Regular		Exc.		Embankment	
A (sf)	V (cy)	A (sf)	V (cy)	A (sf)	V (cy)
21.6	33.3	88.5		166.1	
14.6	21.9	90.9		136.9	
9.3	12.4	57.0		102.1	

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



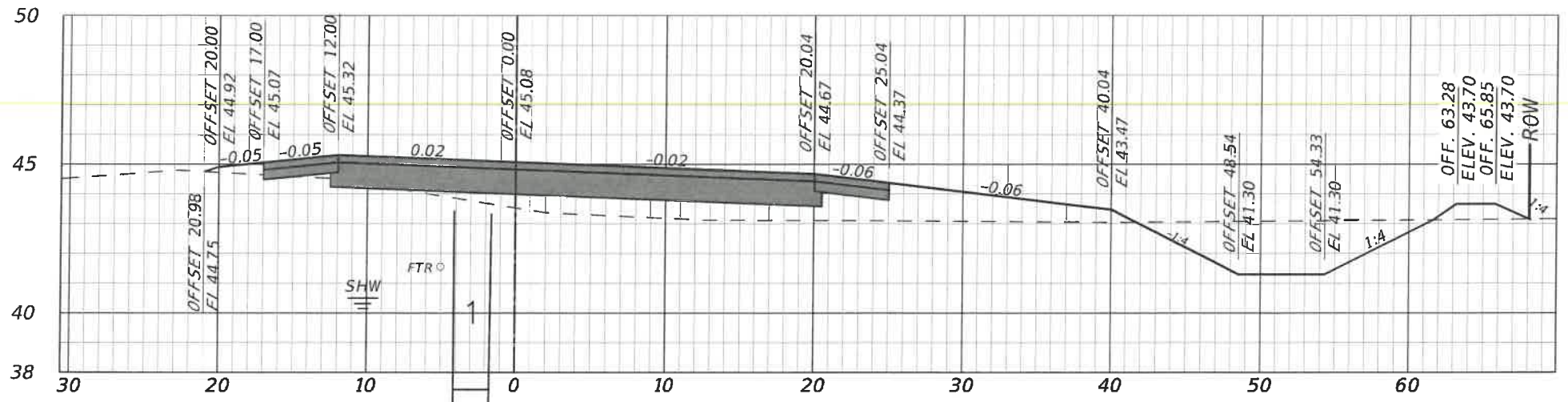
ERIE RD. AND SR 62 IMPROVEMENTS

CROSS SECTIONS
STA. 115+50 TO 116+50

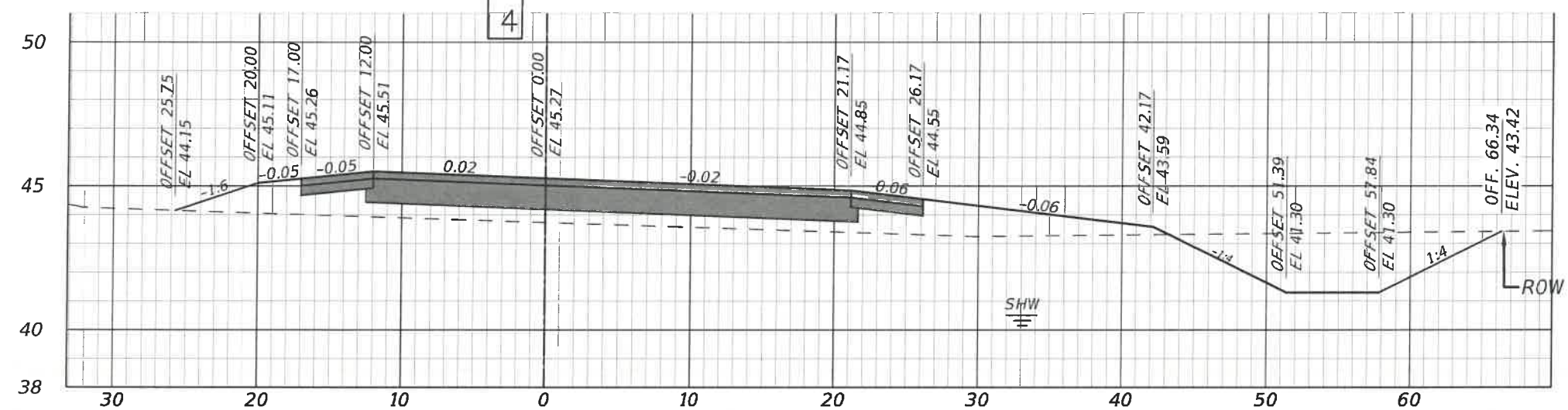
VERTICAL DATUM
NGVD 1929
SHEET NO.
37

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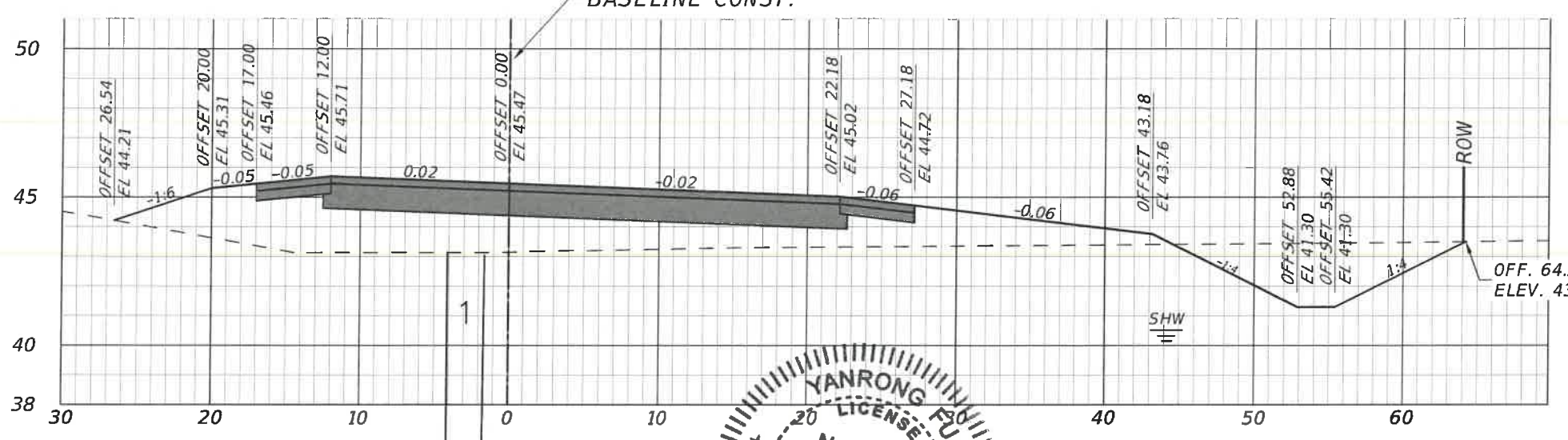
DATE	DESCRIPTION	DATE	FDOT FPID #	445308-1-58-01
			PROJECT #	850-6094060
			SURVEYED	ZNS 01/2019
			DESIGNED	MCG 01/2019
			DRAWN	MCG 01/2019
			CHECKED	SF 08/2021



118+00



117+50



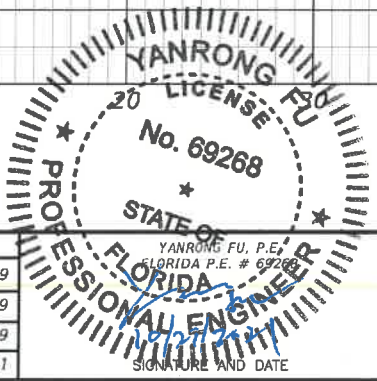
117+00

Regular		Exc.		Embankment	
A (sf)	V (cy)	A (sf)	V (cy)	A (sf)	V (cy)
23.2	50.0	64.0	97.2		
30.8	50.7	41.0	108.0		
24.0	42.2	75.6	151.9		

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

H:\Highway\Engineering\PROJ\INTERSECTION\SR 62 301 ERIE\DWG\CROSSSECT.dwg, Sep 12, 8:12 AM

DATE	DESCRIPTION	DATE	FDOT FPID #	PROJECT #	SURVEYED	ZNS	01/2019
			445308-1-58-01	850-6094060			
					DESIGNED	MCG	01/2019
				35/33/19	DRAWN	MCG	01/2019
					CHECKED	SF	08/2021



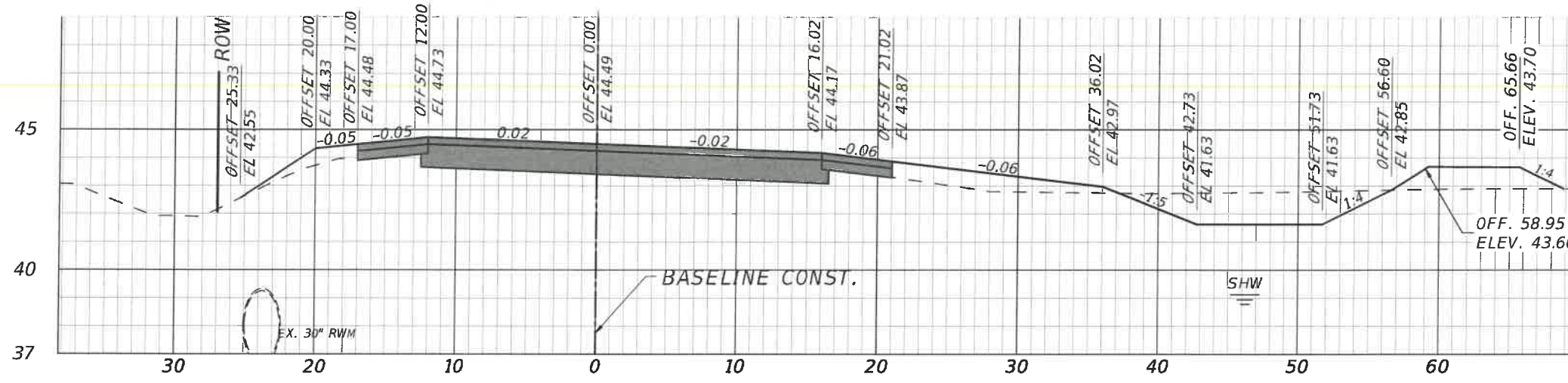

PUBLIC WORKS DEPARTMENT
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ERIE RD. AND SR 62 IMPROVEMENTS

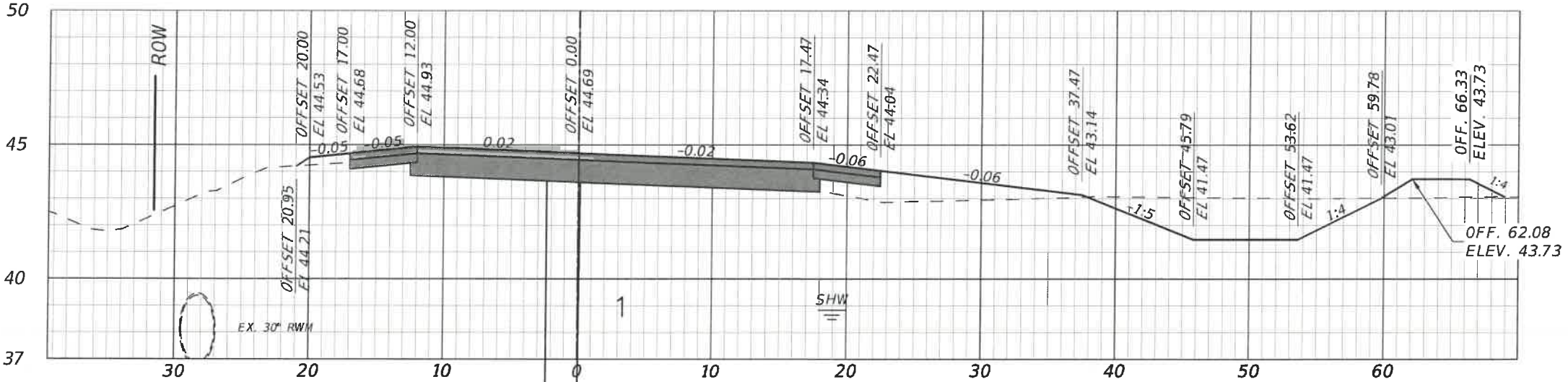
CROSS SECTIONS
STA. 117+00 TO 118+00

VERTICAL DATUM
NGVD 1929

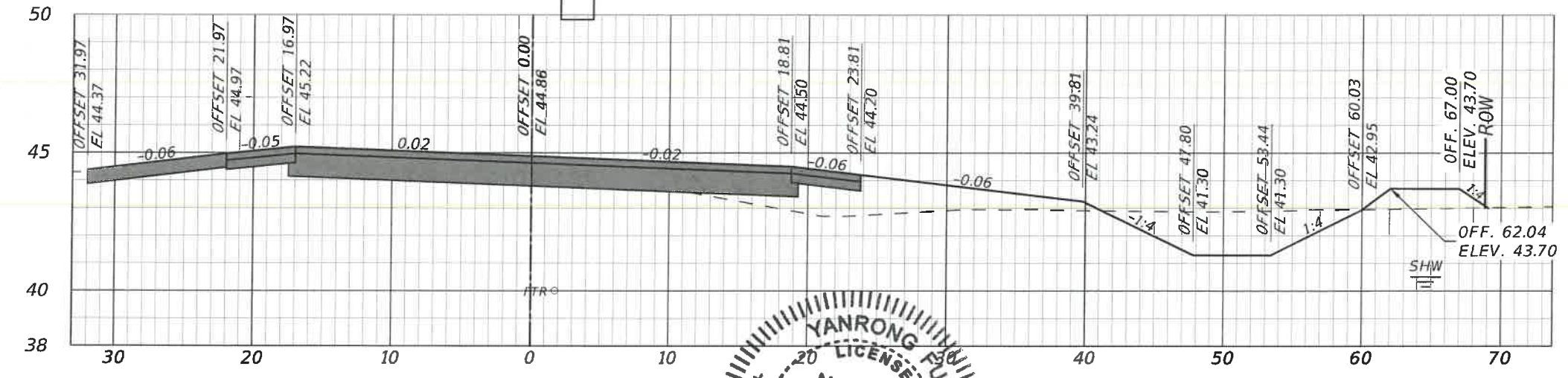
SHEET NO.
38



119+50



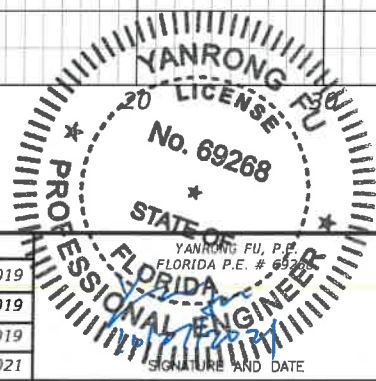
119+00



118+50

Regular		Exc.		Embankment	
A (sf)	V (cy)	A (sf)	V (cy)	A (sf)	V (cy)
62.8	118.9	29.2	44.5		
65.6	12.3	30.4	71.2		
55.7	73.1	46.5	102.3		

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



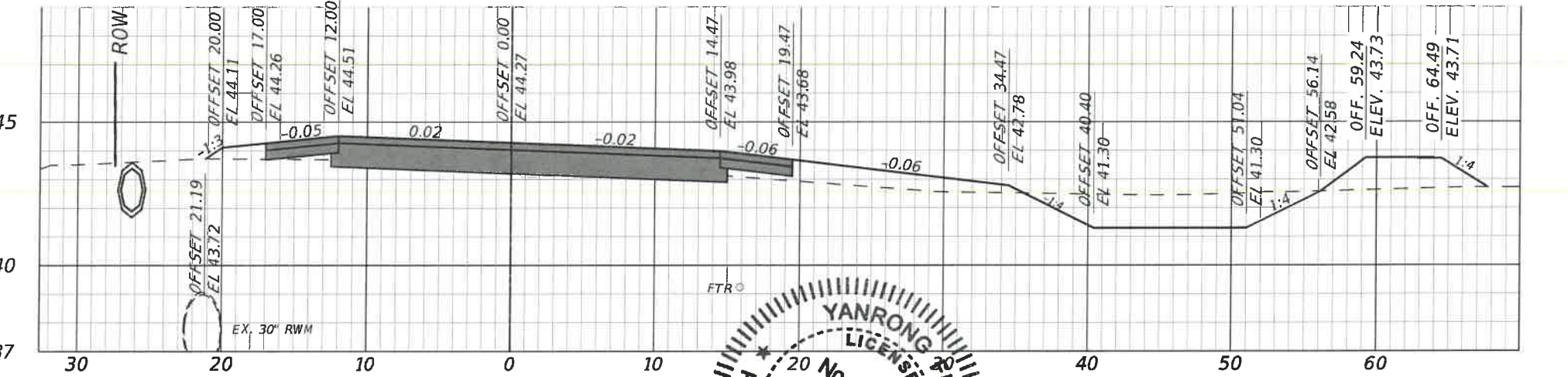
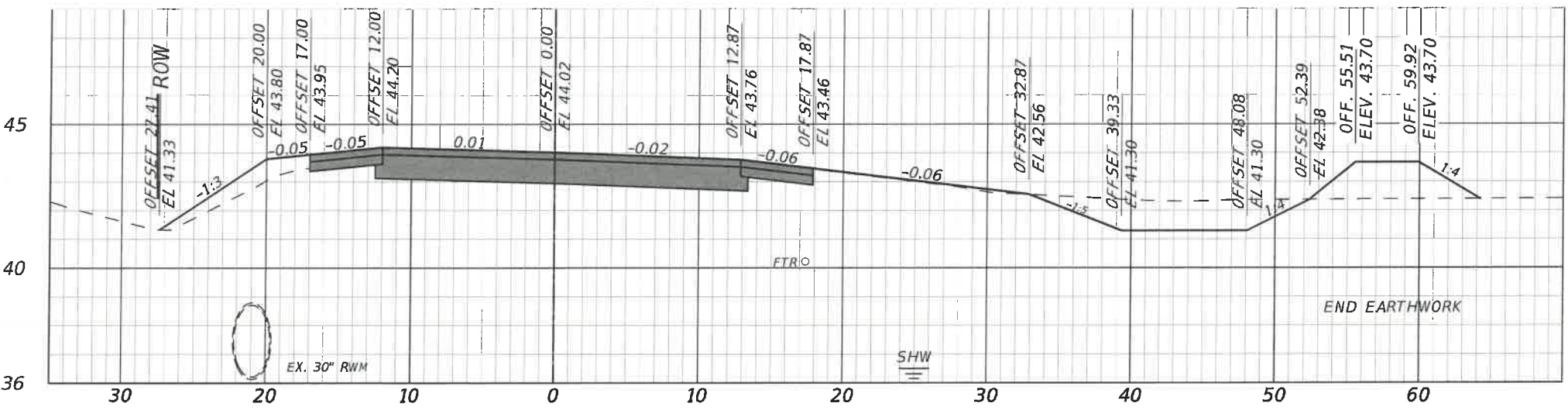
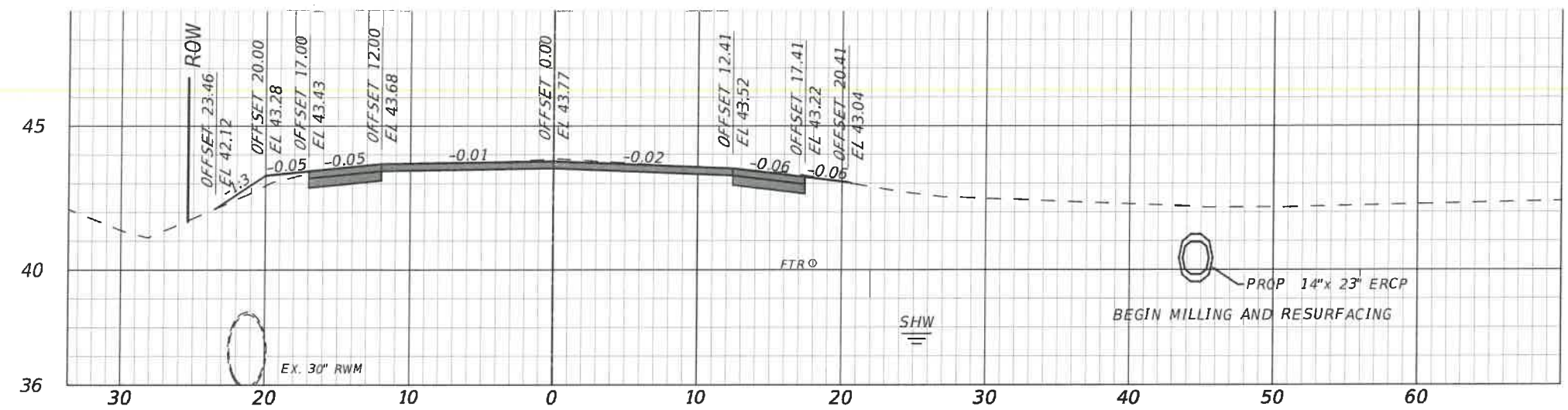
ERIE RD. AND SR 62 IMPROVEMENTS

CROSS SECTIONS
STA. 118+50 TO 119+50

VERTICAL DATUM
NGVD 1929
SHEET NO.
39

H:\Highway\Engineering\PROJ\INTERSECTION\SR 62 301 ERIE\DWG\CROSSSECT.dwg, Sep 1, 2021, 8:13 AM

DATE	DESCRIPTION	DATE	FDOT FPID #	PROJECT #	SURVEYED	ZNS	01/2019
			445308-1-58-01	850-6094060			
					DESIGNED	MCG	01/2019
					DRAWN	MCG	01/2019
					CHECKED	SF	08/2021



121+00

120+50

120+00

Regular		Exc.		Embankment	
A (sf)	V (cy)	A (sf)	V (cy)	A (sf)	V (cy)
32.3				1.1	
	89.4				15.5
64.3				24.6	
	101.4				43.2
45.2				31.1	
	100.1				55.8

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

NOTE:
ALL EXISTING UTILITIES SHOWN
ARE APPROXIMATE AND ARE TO BE
VERIFIED BY THE CONTRACTOR
BEFORE CONSTRUCTION

H:\Highway\Engineering\PROJ\INTERSECTION\SR 62 301 ERIE\DWG\CROSSSECT.dwg - Sun, 1/21/2021 8:14 AM

DATE	DESCRIPTION	DATE

FDOT FPID #	445308-1-58-01
PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	
SURVEYED	ZNS 01/2019
DESIGNED	MCG 01/2019
DRAWN	MCG 01/2019
CHECKED	SF 08/2021

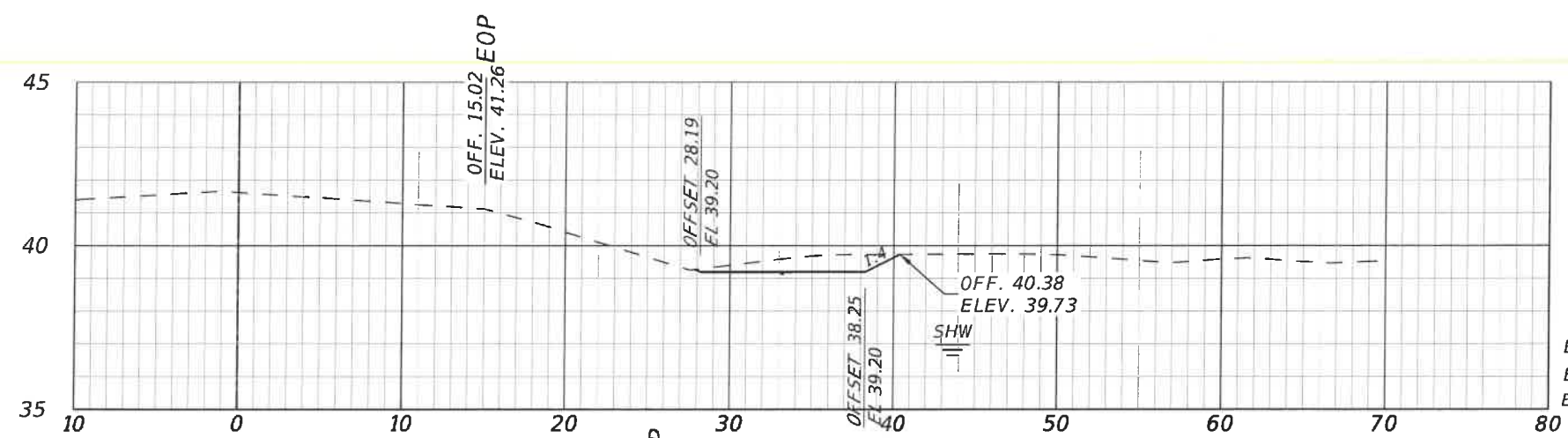


ERIE RD. AND SR 62 IMPROVEMENTS

CROSS SECTIONS
STA. 120+00 TO 121+00

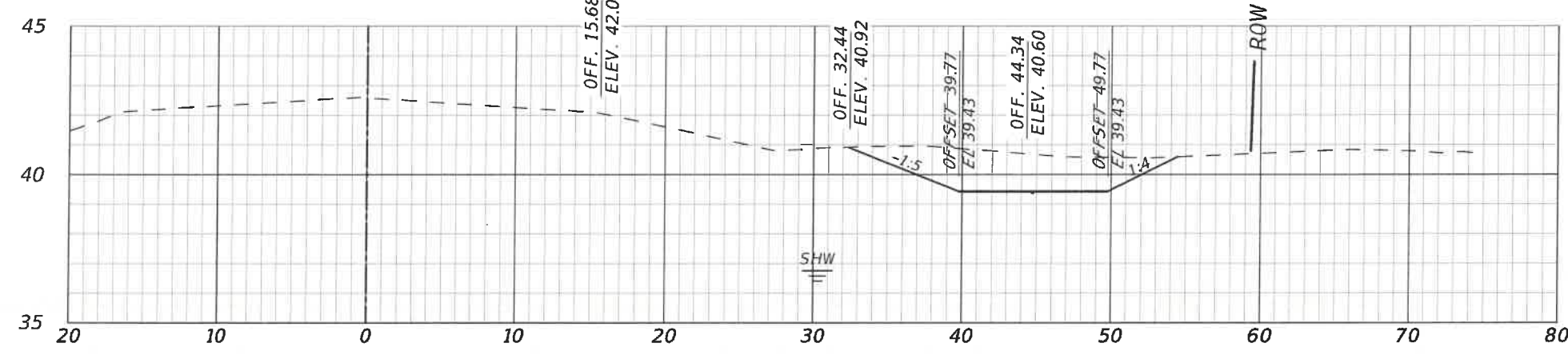
VERTICAL DATUM
NGVD 1929
SHEET NO.
40

Regular		Exc.		Embankment	
A (sf)	V (cy)	A (sf)	V (cy)	A (sf)	V (cy)



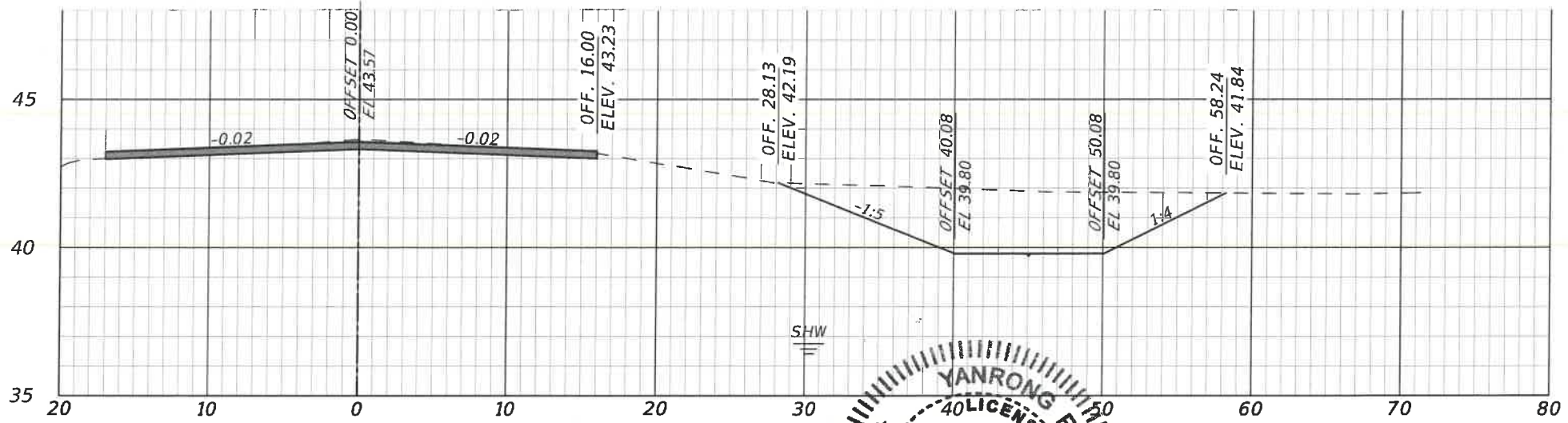
124+00

4.3	47.2	0.0	0.0
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123+00

21.2	190.8	0.0	0.0
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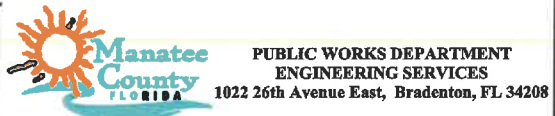
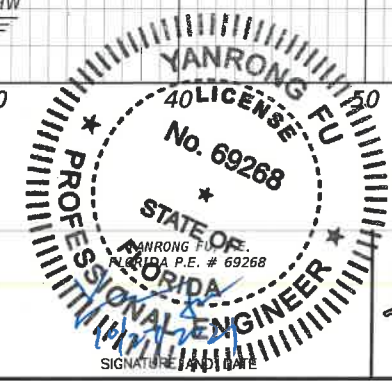


121+39

42.8	54.2	0.0	0.8
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NOTE:
ALL EXISTING UTILITIES SHOWN
ARE APPROXIMATE AND ARE TO BE
VERIFIED BY THE CONTRACTOR
BEFORE CONSTRUCTION

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



ERIE RD. AND SR 62 IMPROVEMENTS

CROSS SECTIONS
STA. 121+39 TO 124+00

VERTICAL DATUM NGVD 1929
SHEET NO. 47

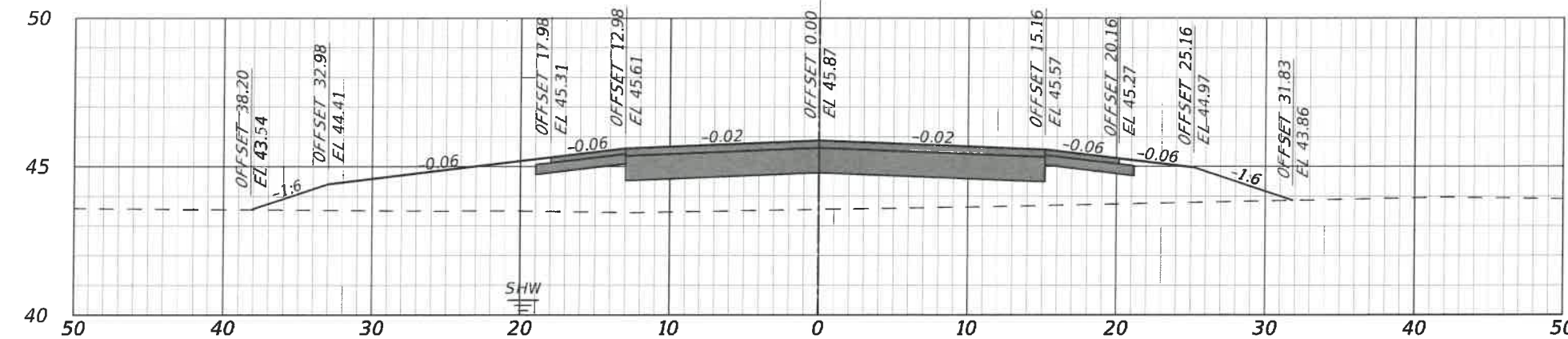
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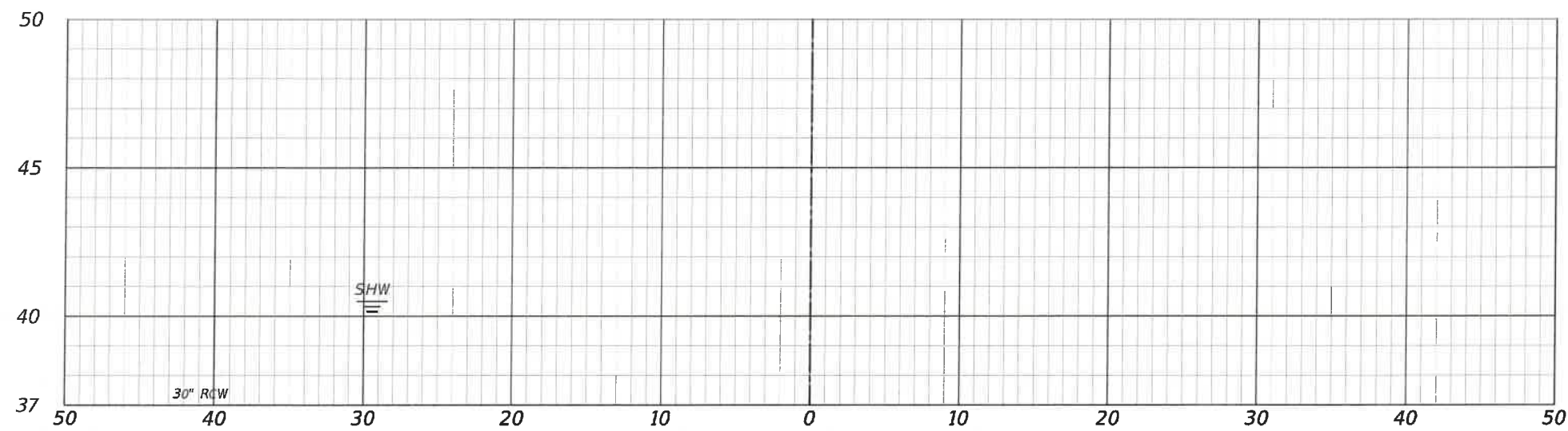
FDOT FPID #	445308-1-58-01
PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	

SURVEYED	ZNS	01/2019
DESIGNED	MCG	01/2019
DRAWN	MCG	01/2019
CHECKED	SF	08/2021

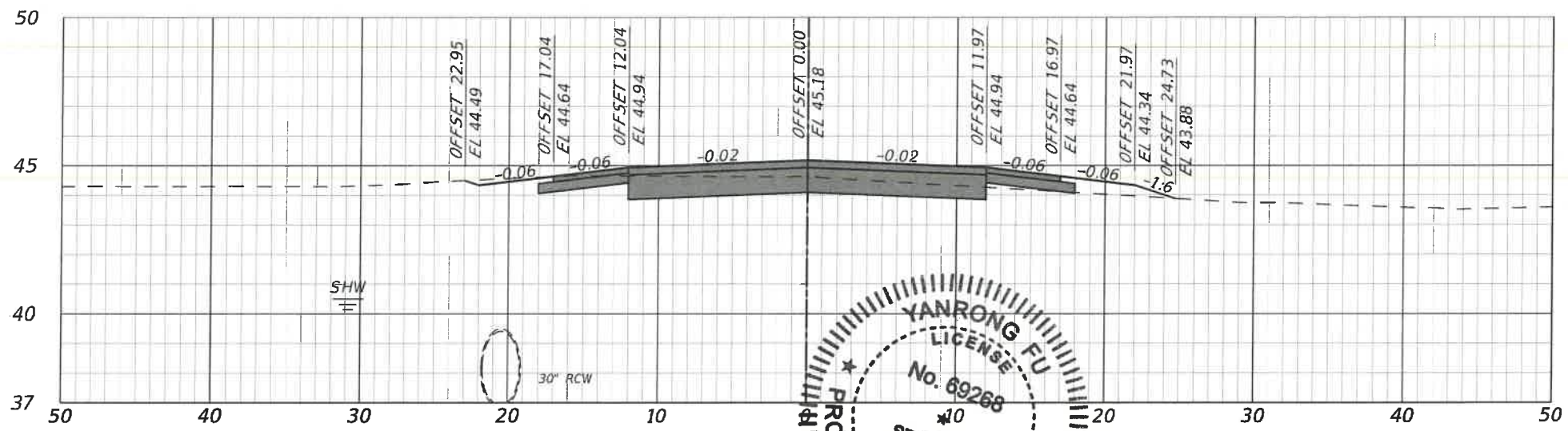
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201+50



201+00



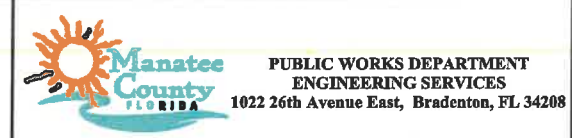
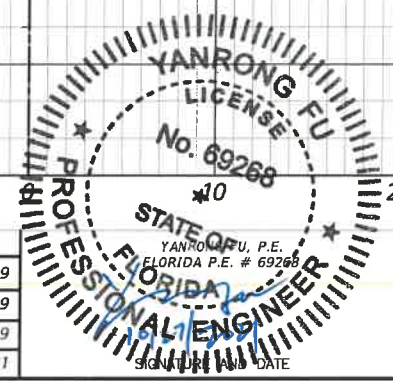
200+53

Regular		Exc.		Embankment	
A (sf)	V (cy)	A (sf)	V (cy)	A (sf)	V (cy)
0.0	8.0	73.7	81.2		
8.6	21.7	14.0	14.3		
16.3	0	2.4	0		

NOTE:
ALL EXISTING UTILITIES SHOWN
ARE APPROXIMATE AND ARE TO BE
VERIFIED BY THE CONTRACTOR
BEFORE CONSTRUCTION

DATE	DESCRIPTION	DATE

FDOT FPID #	445308-1-58-01
PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	
SURVEYED	ZNS 01/2019
DESIGNED	MCG 01/2019
DRAWN	MCG 01/2019
CHECKED	SF 08/2021



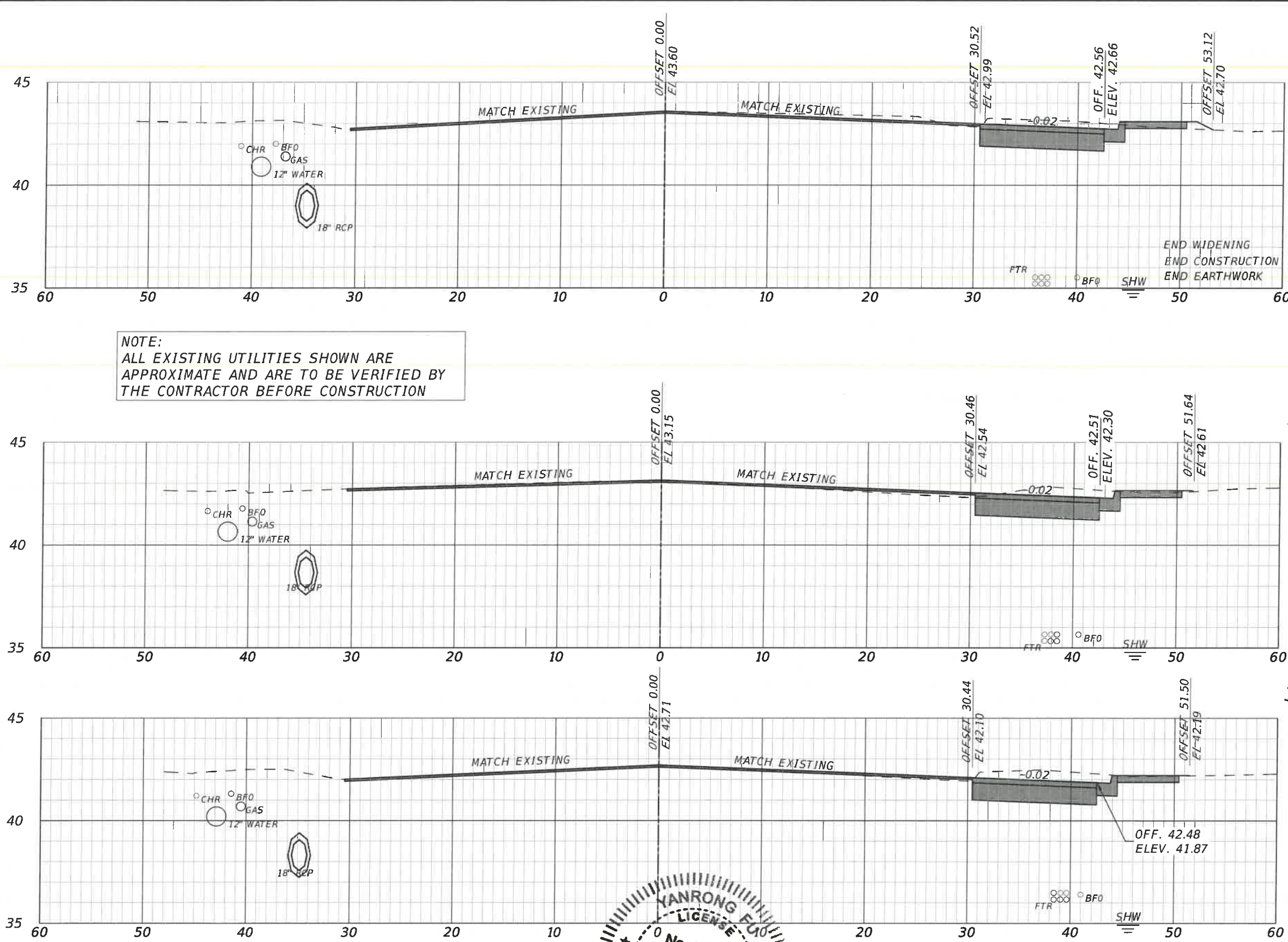
ERIE RD. AND SR 62 IMPROVEMENTS

CROSS SECTIONS
STA. 200+53 TO 201+50

VERTICAL DATUM
NGVD 1929

SHEET NO.
42

H:\Highway\Engineering\PROJ\INTERSECTION\SR 62 301 ERIE\DWG\CROSS\SECT.dwg, Oct 27 21 11:05 AM



NOTE:
ALL EXISTING UTILITIES SHOWN ARE APPROXIMATE AND ARE TO BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION

Regular		Exc.		Embankment	
A (sf)	V (cy)	A (sf)	V (cy)	A (sf)	V (cy)
19.5	35.9	0	0	0	0
19.3	38.1	0	0	0	0
21.9	41.9	0	0	0	0

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

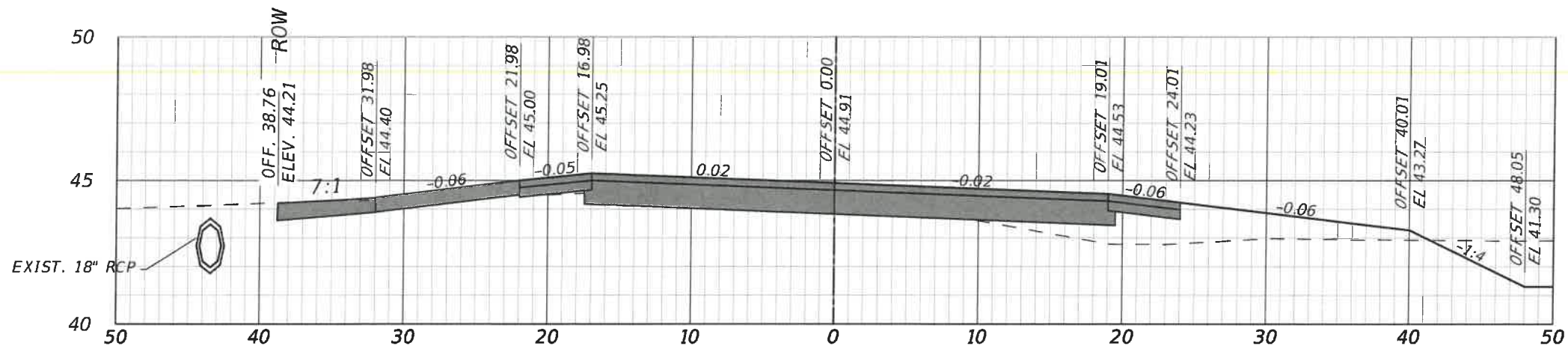


ERIE RD. AND SR 62 IMPROVEMENTS
CROSS SECTIONS
STA. 304+50 TO 305+50

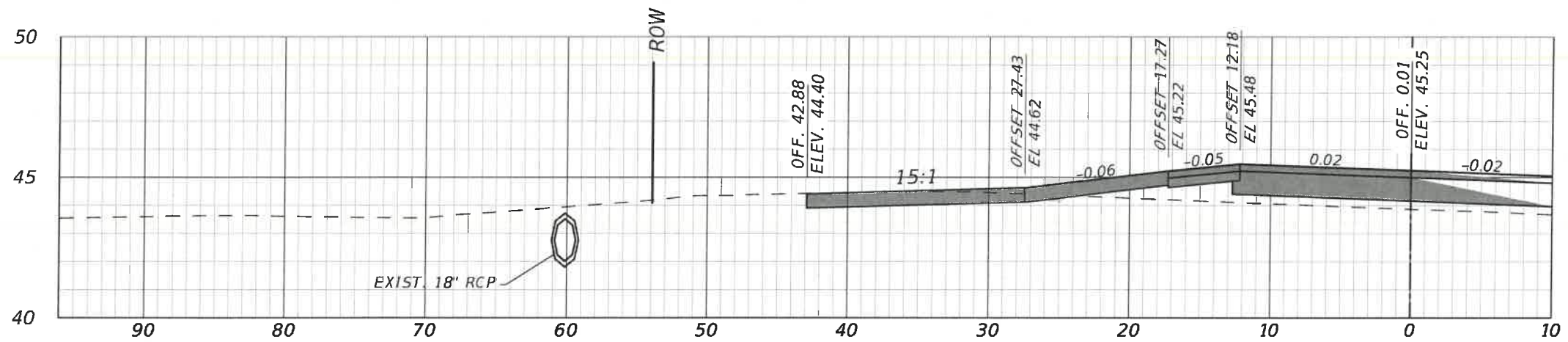
DATE	DESCRIPTION	DATE	FDOT FPID #	PROJECT #	SURVEYED	ZNS	DATE
			445308-1-58-01	850-6094060			01/2019
					N/A	DESIGNED	MCG 01/2019
				35/33/19		DRAWN	MCG 01/2019
						CHECKED	SF 08/2021

VERTICAL DATUM
NGVD 1929
SHEET NO.
44

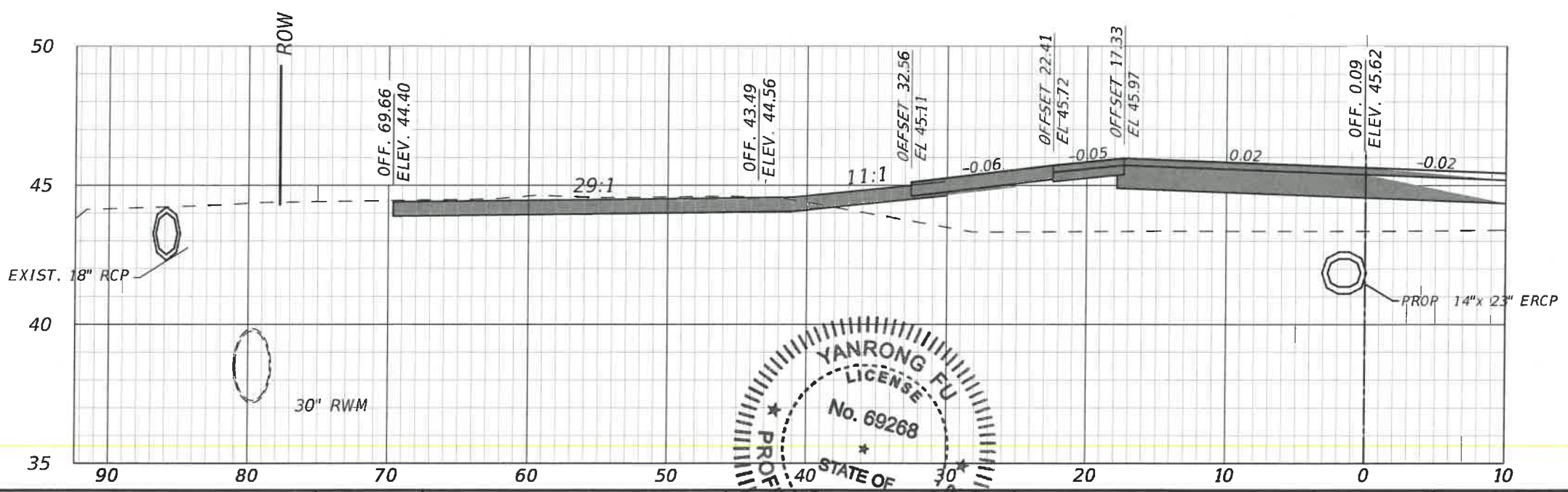
118+42
SR 62



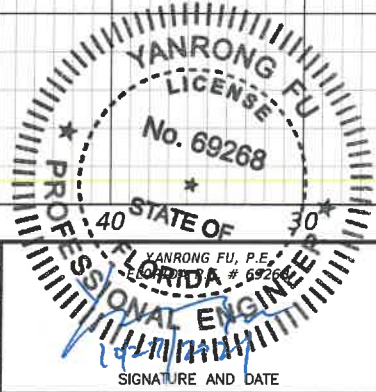
117+56
SR 62



116+55
SR 62



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



Manatee County
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

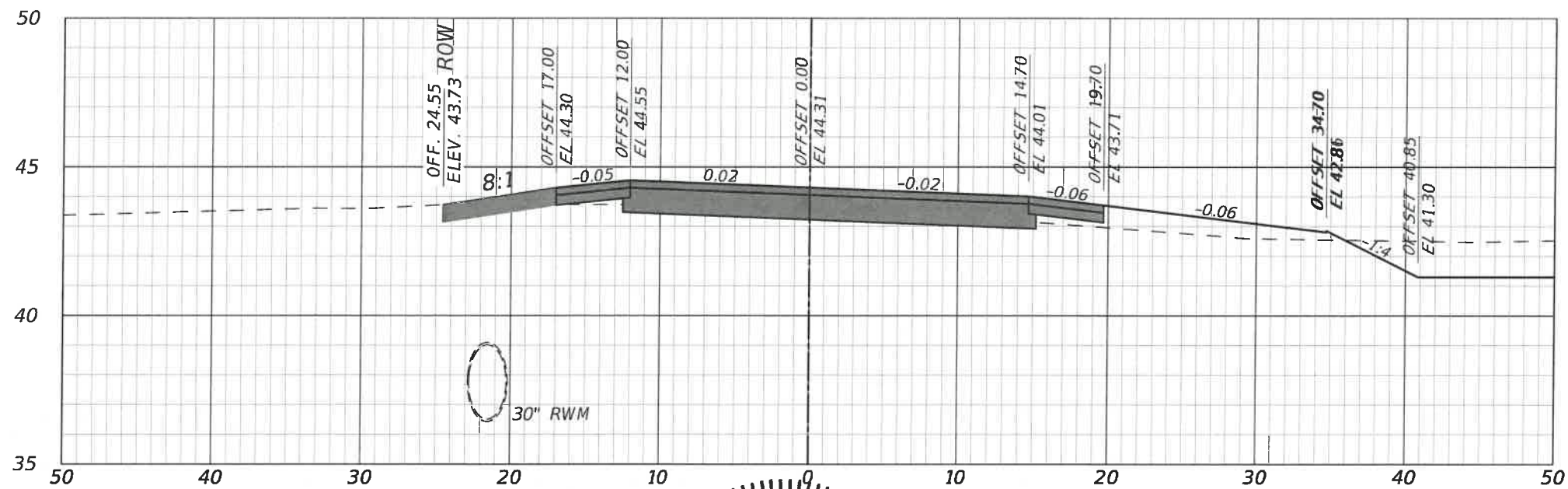
ERIE RD. AND SR 62 IMPROVEMENTS
DRIVEWAY CROSS SECTIONS

VERTICAL DATUM
NGVD 1929
SHEET NO.
46

DATE	DESCRIPTION	DATE	FDOT FPID #	PROJECT #	SURVEYED	ZNS	01/2019
			445308-1-58-01	850-6094060	DESIGNED	MCG	01/2019
				N/A	DRAWN	MCG	01/2019
				35/33/19	CHECKED	SF	08/2021

H:\Highway_Improvement\PROJECT\SECTION\SR 62 301 Erie\DWG\XSECT.dwg Oct 27 21 11:07 AM

H:\Highway Engineering\PROJECTS\SR 62\301 ERIE\DWG\CROSSSECT.dwg Oct 27 21 11:09 AM



119+93
SR 62

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



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ENGINEERING SERVICES
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ERIE RD. AND SR 62 IMPROVEMENTS

DRIVEWAY CROSS SECTIONS

VERTICAL
DATUM
NGVD 1929
SHEET NO.
47

DATE	DESCRIPTION	DATE	PROJECT #	FDOT FPID #	SURVEYED	ZNS	01/2019
			850-6094060	445308-1-58-01			
					DESIGNED	MCG	01/2019
					DRAWN	MCG	01/2019
					CHECKED	SF	08/2021

THE FOLLOWING NARRATIVE OF THE STORMWATER POLLUTION PREVENTION PLAN CONTAINS REFERENCES TO THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE STANDARD PLANS, AND OTHER SHEETS OF THESE CONSTRUCTION PLANS. THE FIRST SHEET (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE CONTRACTORS APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION NUMBER 104, AND REPORTS OF INSPECTIONS MADE DURING CONSTRUCTION.

1.0 SITE DESCRIPTION

1.A NATURE OF CONSTRUCTION ACTIVITIES:

THE PROJECT IS THE REALIGNMENT OF SR 62. THIS INVOLVES A CONSTRUCTION OF A ROADWAY SURFACE, CURB AND GUTTER, SIDEWALK, UNDERGROUND STORM DRAIN SYSTEMS, AND STORMWATER MANAGEMENT FACILITIES. THE PROJECT EXTENDS FROM ERIE ROAD TO NEW SR 62. DISTANCE IS APPROXIMATELY 0.50 MILES.

1.B SEQUENCE OF MAJOR SOIL DISTURBANCE ACTIVITIES

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

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

- CLEARING AND GRUBBING, EARTHWORK, AND STORM DRAIN CONSTRUCTION FOR THE OUTFALL FROM THE PONDS.
- CLEARING AND GRUBBING, EARTHWORK FOR POND CONSTRUCTION.
- STORM DRAIN CONSTRUCTION. CONSTRUCT THE STORM DRAIN PIPE IN THE UPSTREAM DIRECTION.
- EARTHWORK ASSOCIATED WITH THE CONSTRUCTION OF ROADWAY, CURB, SUBGRADE, BASE, PAVEMENT, AND SIDEWALK.
- CONSTRUCT UNDERDRAIN IN POND BOTTOM IF REQUIRED.

1.C

TOTAL SITE AREA: 4.56 AC
TOTAL AREA TO BE DISTURBED: 4.56 AC

1.D RUNOFF DATA

RUNOFF COEFFICIENTS:
BEFORE: 0.73
DURING: VARIES FROM 0.73 TO 0.88
AFTER: 0.88

SOILS DATA: THE RESULTS OF THE SOIL BORINGS ALONG THE ROADWAY ARE SHOWN IN THE ROADWAY ROADWAY SOILS SHEETS. THE NUMBER OF THESE ARE IDENTIFIED ON THE KEY SHEET OF THE CONSTRUCTION PLANS. IN GENERAL THE SOILS ARE LOOSE TO DENSE POORLY GRADED FINE SAND WITH VARYING AMOUNTS OF SILT.

OUTFALL INFORMATION:

THERE IS 1 OUTFALL AT STATION 120+79.21 RT. THIS OUTFALL IS LOCATED IN POND 3, WHICH IS INTER-CONNECTED TO POND 1 AND POND 2.

POND 1:
LOCATION LAT. N27° 35' 14.92" LONG. W82° 25' 26.91"
EST. DRAINAGE AREA SIZE 3.1 AC.
RECEIVING WATERS FROM POND 2

POND 2:
LOCATION LAT. N27° 35' 15.81" LONG. W82° 25' 22.60"
DRAINAGE AREA SIZE 0.25 AC.
RECEIVING WATERS FROM POND 3

POND 3:
LOCATION LAT. N27° 35' 15.48" LONG. W82° 25' 18.77"
DRAINAGE AREA SIZE 1.21 AC.
RECEIVING WATERS FROM GAMBLE CREEK

1.E SITE MAP

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

- DRAINAGE PATTERNS: THE DRAINAGE BASIN DIVIDES AND FLOW DIRECTIONS ARE SHOWN ON THE DRAINAGE MAPS.
- APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE CROSS SECTION SHEETS, AND THE PLAN AND PROFILE SHEETS.
- AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE PLAN AND PROFILE SHEETS, THE CROSS SECTION SHEETS, AND THE POND DETAIL SHEET. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW THE GROUND WILL BE DISTURBED.
- AREAS NOT TO BE DISTURBED: ESSENTIALLY THE WHOLE PROJECT WILL BE DISTURBED DURING CONSTRUCTION.
- LOCATIONS OF TEMPORARY CONTROLS: THESE ARE SHOWN ON THE BEST MANAGEMENT SHEETS.
- LOCATION OF PERMANENT CONTROLS: THE STORMWATER PONDS ARE THE PRIMARY PERMANENT STORMWATER MANAGEMENT CONTROLS. THESE ARE SHOWN ON THE POND DETAIL SHEETS AND PLAN AND PROFILE SHEETS.
- AREAS TO BE STABILIZED: TEMPORARY STABILIZATION PRACTICES ARE SHOWN IN THE SAME LOCATION AS THE TEMPORARY CONTROLS MENTIONED ABOVE. PERMANENT STABILIZATION IS SHOWN IN THE TYPICAL SECTION SHEETS, THE PLAN AND PROFILE SHEETS, AND THE POND LAYOUT SHEET.
- SURFACE WATERS: THE ONLY SURFACE WATERS ON THE SITE ARE IN THE ROADSIDE DITCH ALONG OLD SR 62.
- DISCHARGE POINTS TO SURFACE WATERS: THERE IS ONLY ONE. THIS IS SHOWN ON THE PLAN AND PROFILE SHEETS AT STATION 121+36.8 RT.

1.F RECEIVING WATERS

SEE ITEM 1.D FOR THE OUTFALL LOCATIONS AND RECEIVING WATER NAMES. THERE ARE NO WETLAND AREAS ON THE PROJECT SITE.

2.0 CONTROLS

2.A EROSION AND SEDIMENT CONTROLS:

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

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

PHASE 1 OF TEMPORARY TRAFFIC CONTROL PLANS

ROADWAY, CONSTRUCT NEW SR 62 TO CONNECTION POINT.

OUTFALL TO POND 3

CONSTRUCT THE OUTFALL PIPE FROM S-15 TOWARDS THE POND. THE CONTRACTOR SHALL HAVE INLET PROTECTION AVAILABLE AT ALL TIMES DURING THE PIPE CONSTRUCTION TO SUBSTANTIALLY BLOCK RUNOFF IN THE TRENCH FROM ENTERING THE PIPE. CONSTRUCT PIPE TO THE POND AND CONNECT THE OUTLET STRUCTURE OF THE POND.

POND 1, 2, AND 3 CONSTRUCTION

CLEAR AND GRUB THE POND SITE. INITIALLY EXCAVATE THE POND ENOUGH TO CONSTRUCT SEDIMENT BARRIERS AS DETAILED IN THE TTC PLAN. THEN EXCAVATE THE POND TO APPROXIMATE PROPOSED DIMENSIONS. TURF ALL DISTURBED AREAS ON THE POND SITE. FINAL GRADING WILL BE DONE AT THE END OF PHASE TWO OF THE TTC PLANS. AFTER ENTIRE BASIN IS PERMANENTLY STABILIZED, CONSTRUCT UNDERDRAIN IN THE POND BOTTOM IF REQUIRED.

PHASE 2 OF TEMPORARY TRAFFIC CONTROL PLANS

CONSTRUCT ROADWAY IMPROVEMENTS ON ERIE ROAD, OLD SR 62, AND US 301.

2A.1 STABILIZATION PRACTICES

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

TEMPORARY:

- ARTIFICIAL COVERINGS IN ACCORDANCE WITH SPECIFICATION SECTION 104
- TURF AND SOD IN ACCORDANCE WITH SPECIFICATION SECTION 104

PERMANENT:

- ASPHALT OR CONCRETE SURFACE
- SOD IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2A.2 STRUCTURAL PRACTICES

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

TEMPORARY:

- SEDIMENT BARRIERS IN ACCORDANCE WITH DESIGN SPECIFICATIONS SECTION 104, AND FDEP EROSION AND SEDIMENT DESIGNER AND REVIEWER MANUAL.
- INLET PROTECTION IN ACCORDANCE WITH FDEP EROSION AND SEDIMENT CONTROL DESIGN AND REVIEWER MANUAL, AND SPECIAL DETAILS SHOWN IN THE TTC PLAN.

PERMANENT:

- STORMWATER PONDS.
- SOD.

2.B STORMWATER MANAGEMENT

SEVERAL STORM DRAIN SYSTEMS WILL BE CONSTRUCTED TO CONVEY RUNOFF TO THREE (3) STORMWATER RETENTION PONDS. THE FACILITIES HAVE BEEN PERMITTED BY THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP), SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWM), AND COMPLY WITH APPLICABLE STANDARD PLANS.

2.C OTHER CONTROLS:

2.C.1 WASTE DISPOSAL:

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

- PROVIDING LITTER CONTROL AND COLLECTION WITHIN THE PROJECT DURING CONSTRUCTION ACTIVITIES.
- DISPOSING OF ALL FERTILIZER OR OTHER CHEMICAL CONTAINERS ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.
- DISPOSING OF SOLID MATERIALS INCLUDING BUILDING AND CONSTRUCTION MATERIALS OFF THE PROJECT SITE BUT NOT IN SURFACE WATERS, OR WETLANDS.

2.C.2 OFF-SITE VEHICLE TRACKING AND DUST CONTROL

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

- COVERING LOADED HAUL TRUCKS WITH TARPULINS
- REMOVING OF EXCESS DIRT FROM ROADS DAILY.
- STABILIZING CONSTRUCTION ENTRANCES ACCORDING TO THE FDEP EROSION AND SEDIMENT CONTROL DESIGNER AND REVIEWER MANUAL.
- USING ROADWAY SWEEPERS DURING DUST GENERATING ACTIVITIES SUCH AS EXCAVATION AND MILLING OPERATIONS.

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

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

2.C.4 FERTILIZERS AND PESTICIDES

IN THE SEDIMENT AND EROSION CONTROL PLAN, DESCRIBE THE PROCEDURES FOR APPLYING FERTILIZERS AND PESTICIDES. THE PROPOSED PROCEDURES SHALL COMPLY WITH APPLICABLE SUBSECTIONS OF SECTION 982 OF THE SPECIFICATIONS.

2.C.5 TOXIC SUBSTANCES:

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

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

- FDEP RULE CHAPTER 62-25 F.A.C.
- SWFWM PERMIT

3.0 MAINTENANCE

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

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

4.0 INSPECTIONS:

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

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

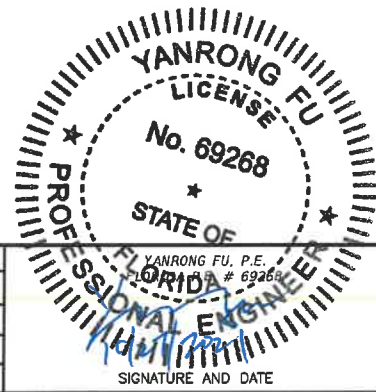
- POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.
- POINTS OF DISCHARGE TO MUNICIPAL SEPARATE STORM DRAIN SYSTEMS.
- DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
- AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
- STRUCTURAL CONTROLS.
- STORMWATER MANAGEMENT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

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

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

5.0 NON STORMWATER DISCHARGES:

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



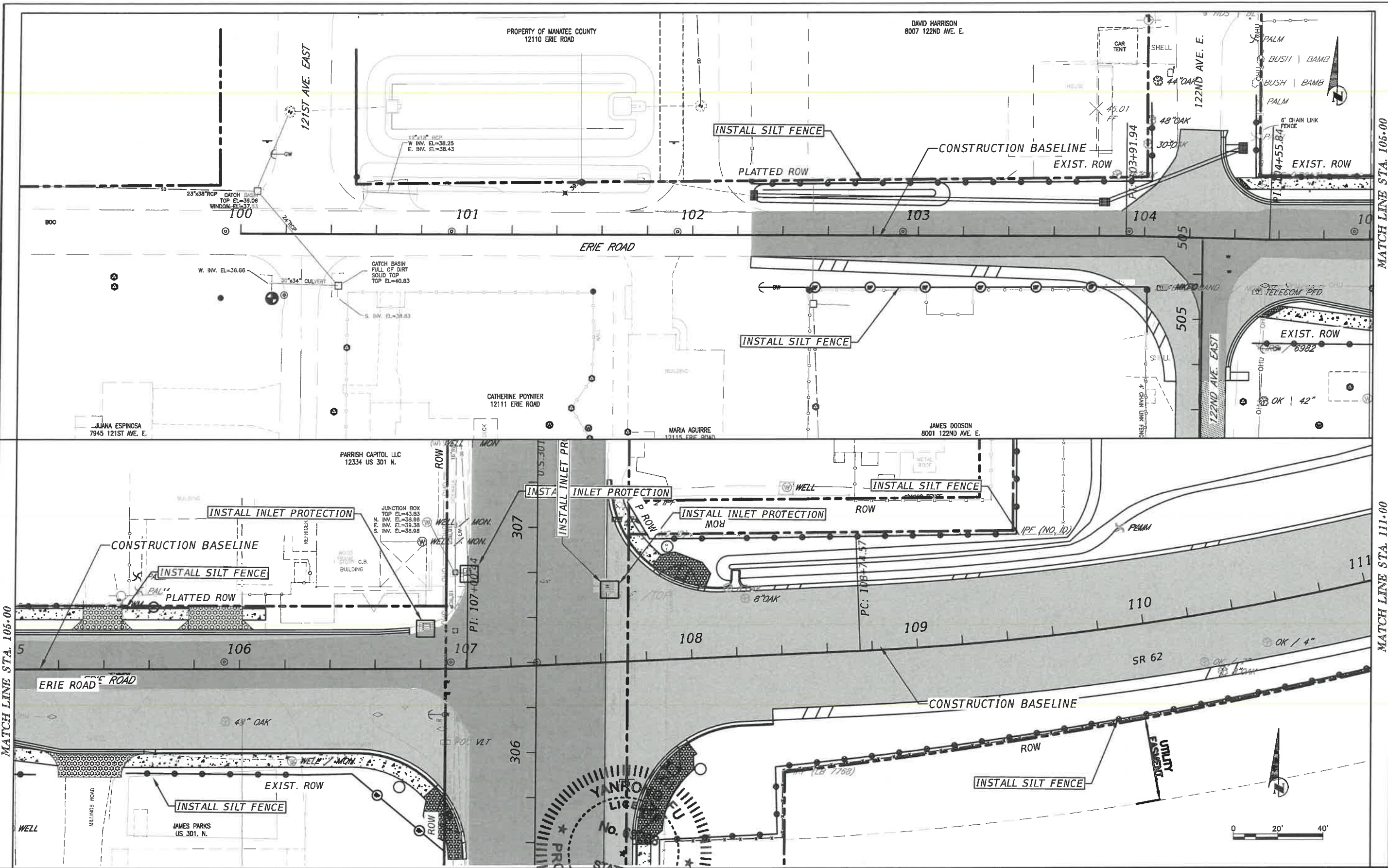
ERIE RD. AND SR 62 IMPROVEMENTS
STORMWATER POLLUTION AND PREVENTION PLAN (SWPPP)

VERTICAL DATUM NGVD 1929
SHEET NO. 48

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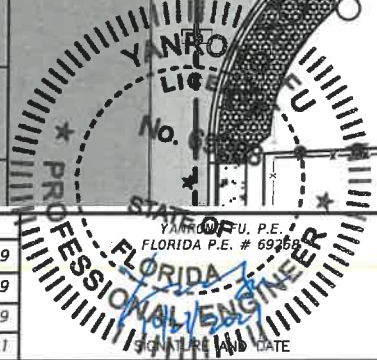
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	PROJECT #	850-6094060	SURVEYED	ZNS	01/2019	
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	SEC./TWN./RGE	35/33/19	DRAWN	MCG	01/2019	
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 MATCH LINE STA. 105+00
 MATCH LINE STA. 111+00



MATCH LINE STA. 105+00

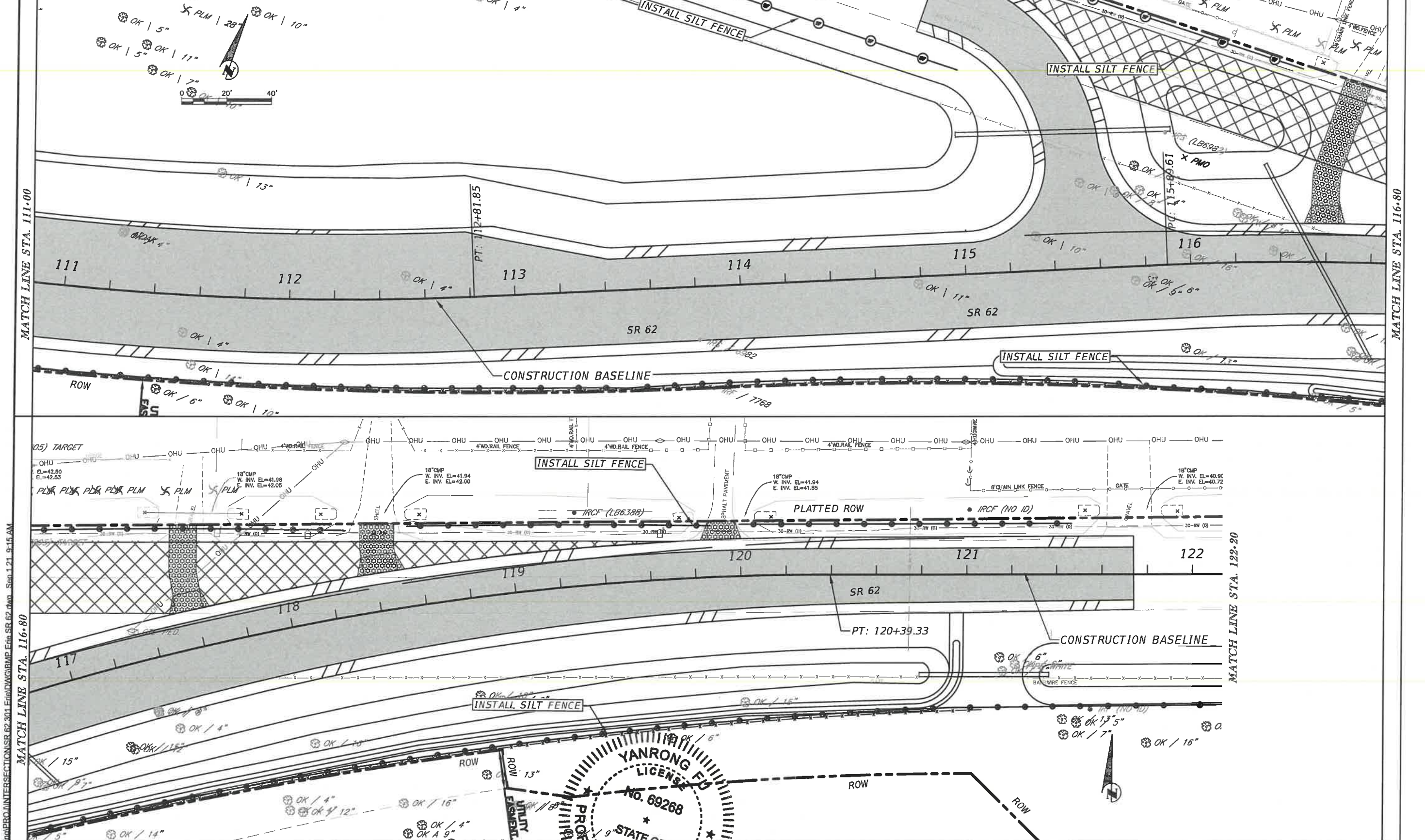
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ERIE RD. AND SR 62 IMPROVEMENTS
EROSION AND SEDIMENT CONTROL PLAN
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VERTICAL DATUM
 NGVD 1929
 SHEET NO.
 49

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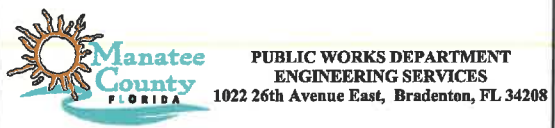
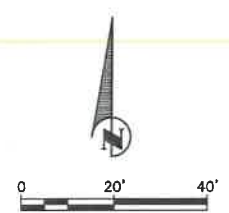
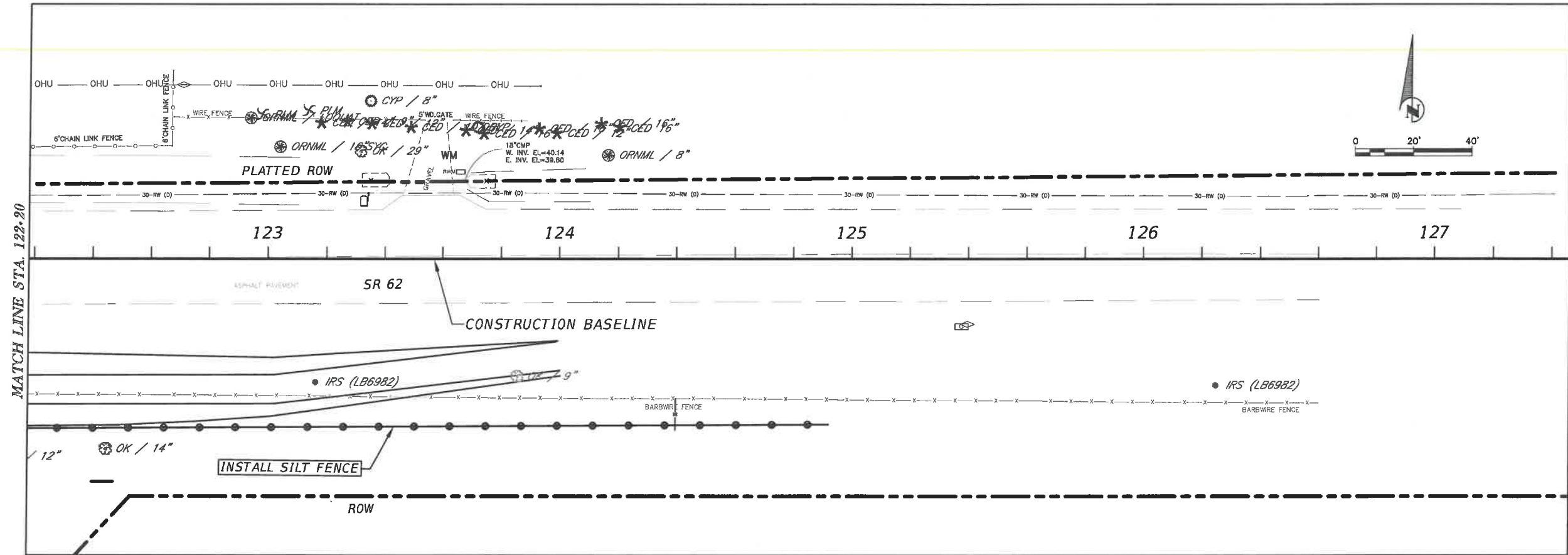
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			DESIGNED	MCG 01/2019
			DRAWN	MCG 01/2019
			CHECKED	SF 08/2021

YANRONG FU
 LICENSE # 69268
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER
 SIGNATURE AND DATE


Manatee County
 FLORIDA
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ERIE RD. AND SR 62 IMPROVEMENTS
EROSION AND SEDIMENT CONTROL PLAN
 STA. 111+00.00 TO 122+20.00

VERTICAL DATUM
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 SHEET NO.
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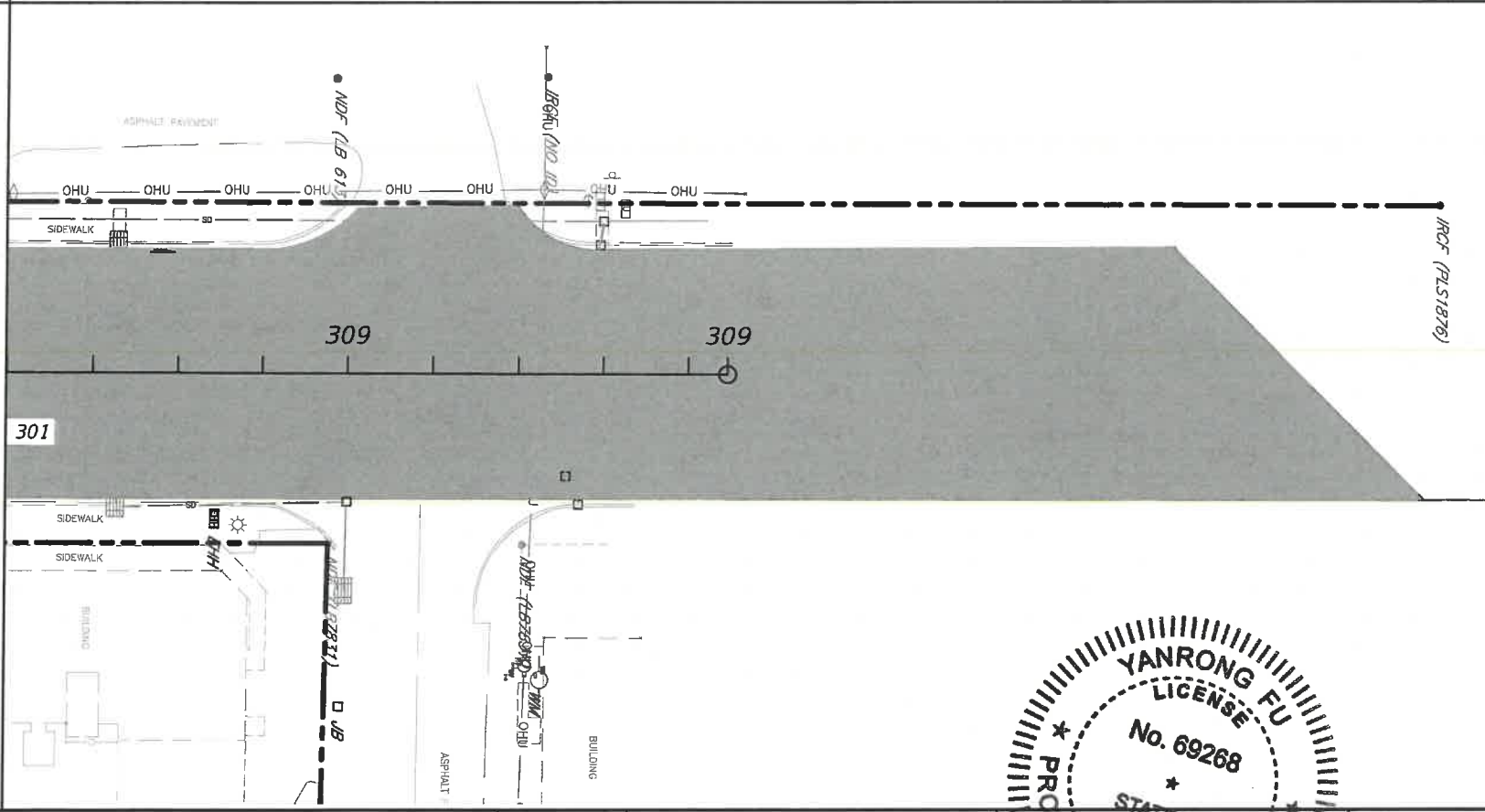
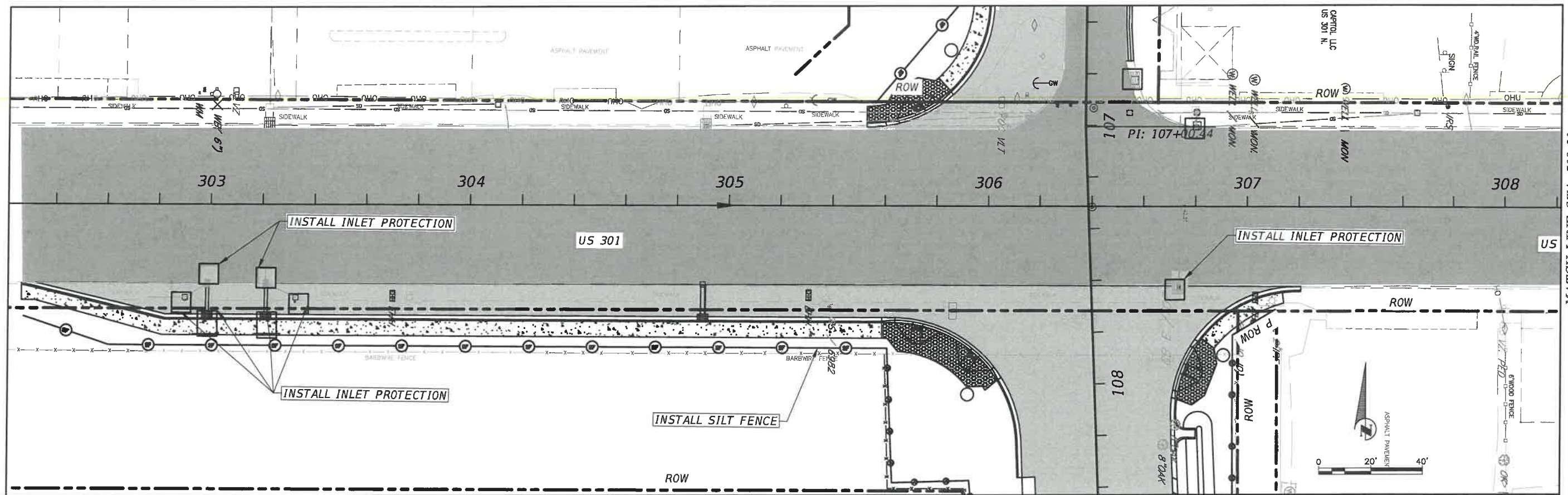
ERIE RD. AND SR 62 IMPROVEMENTS
EROSION AND SEDIMENT CONTROL PLAN
STA. STA 122.20 TO 127.40

VERTICAL DATUM NGVD 1929
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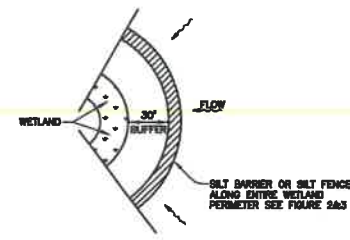

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ERIE RD. AND SR 62 IMPROVEMENTS
EROSION AND SEDIMENT CONTROL PLAN
STA. STA 302+20 TO 309+00

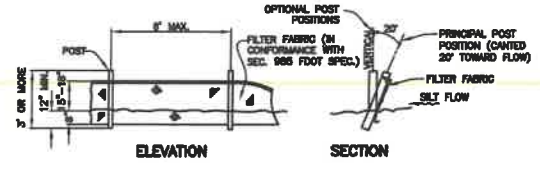
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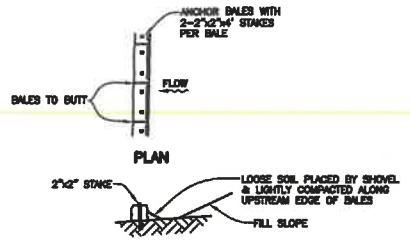
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PROJECT #	850-6094060	SURVEYED	ZNS 01/2019
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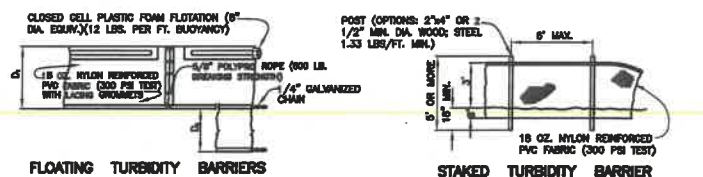
WETLAND BUFFER
FIGURE 1



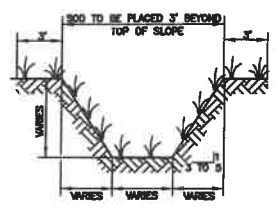
TYPICAL SILT FENCE
FIGURE 2



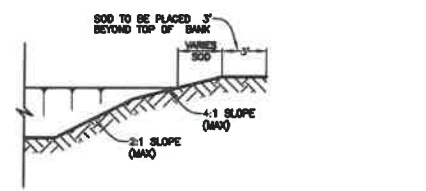
TYPICAL BALE SILT BARRIER
FIGURE 3



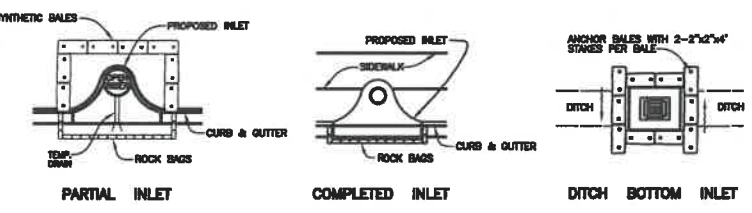
FLOATING TURBIDITY BARRIERS
STAKED TURBIDITY BARRIER
TURBIDITY BARRIERS
FIGURE 4



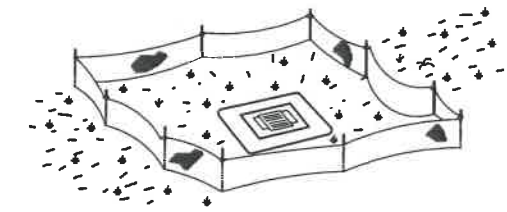
TYPICAL SWALE SECTION
FIGURE 5



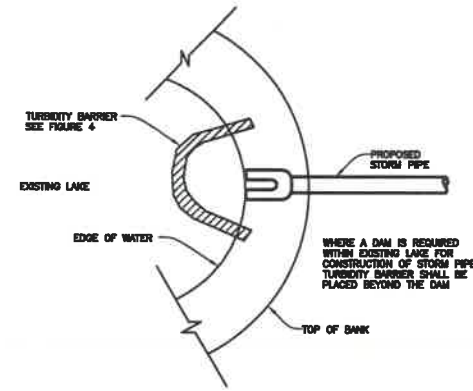
TYPICAL RETENTION/DETENTION POND SECTION
FIGURE 6



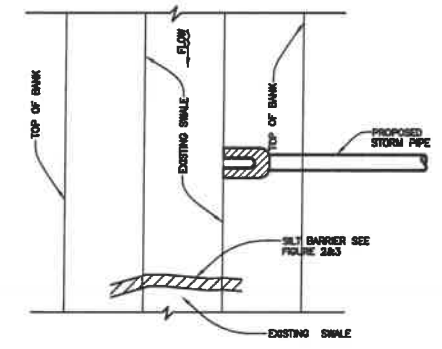
SYNTHETIC BALE PROTECTION AROUND
INLETS OR SIMILAR STRUCTURES
FIGURE 7



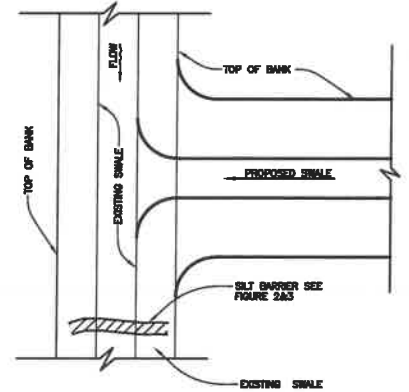
TYPE III SILT FENCE PROTECTION
AROUND DITCH BOTTOM INLETS
STAKED SILT BARRIER OR SILT FENCE
PROTECTION AROUND DITCH BOTTOM INLETS
FIGURE 8



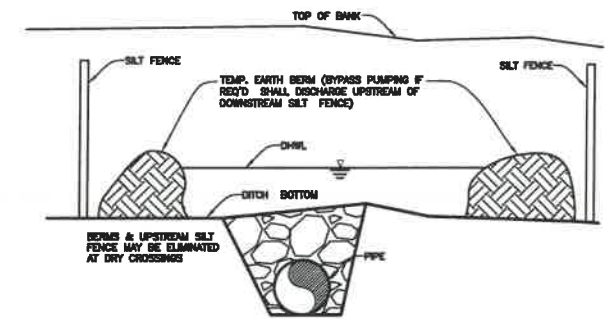
TURBIDITY BARRIER AT CONNECTION OF
STORM PIPE TO EXISTING LAKE
FIGURE 9



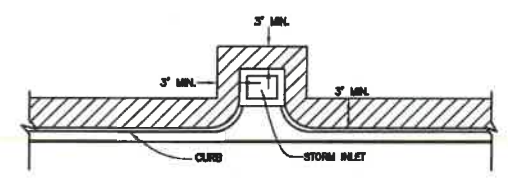
SILT BARRIER AT CONNECTION OF
STORM PIPE TO EXISTING SWALE
FIGURE 10



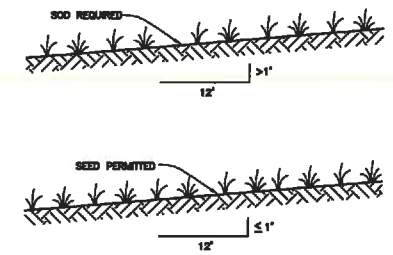
SILT BARRIER AT CONNECTION
OF SWALE TO EXISTING SWALE
FIGURE 11



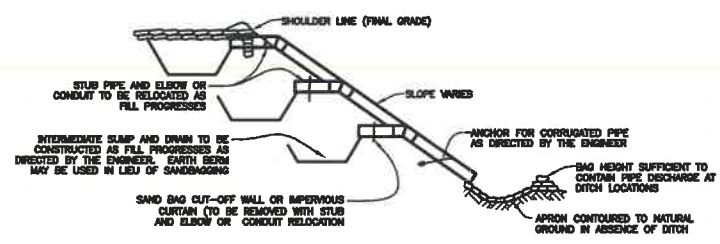
UNDERGROUND PIPE CROSSING
FIGURE 12



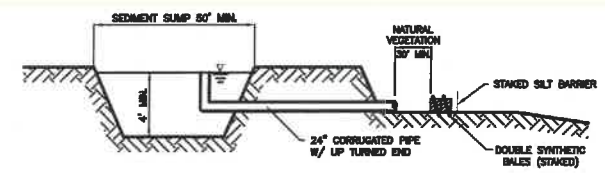
SOD ALONG CURB
AND AROUND INLET
FIGURE 14



GRASS SLOPES
FIGURE 13

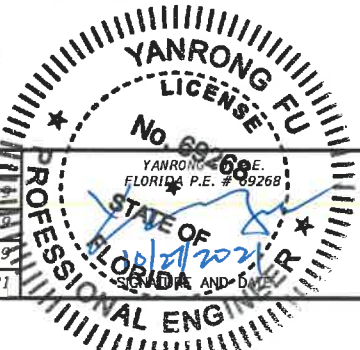


SECTION AA
TEMPORARY SLOPE DRAIN
FIGURE 15



SEDIMENT SUMP SECTION
FIGURE 16

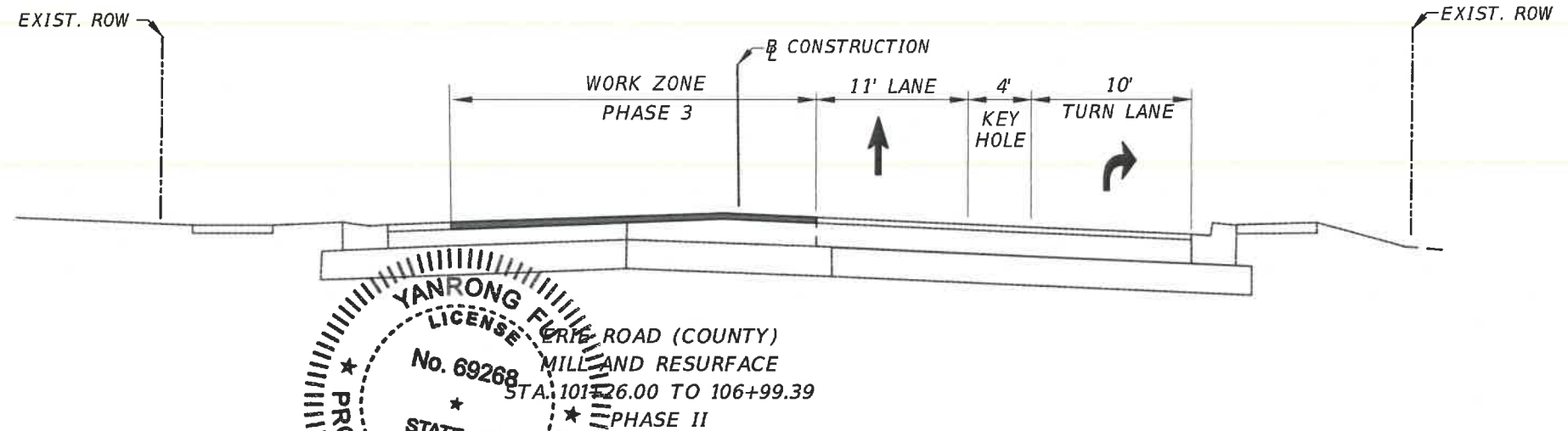
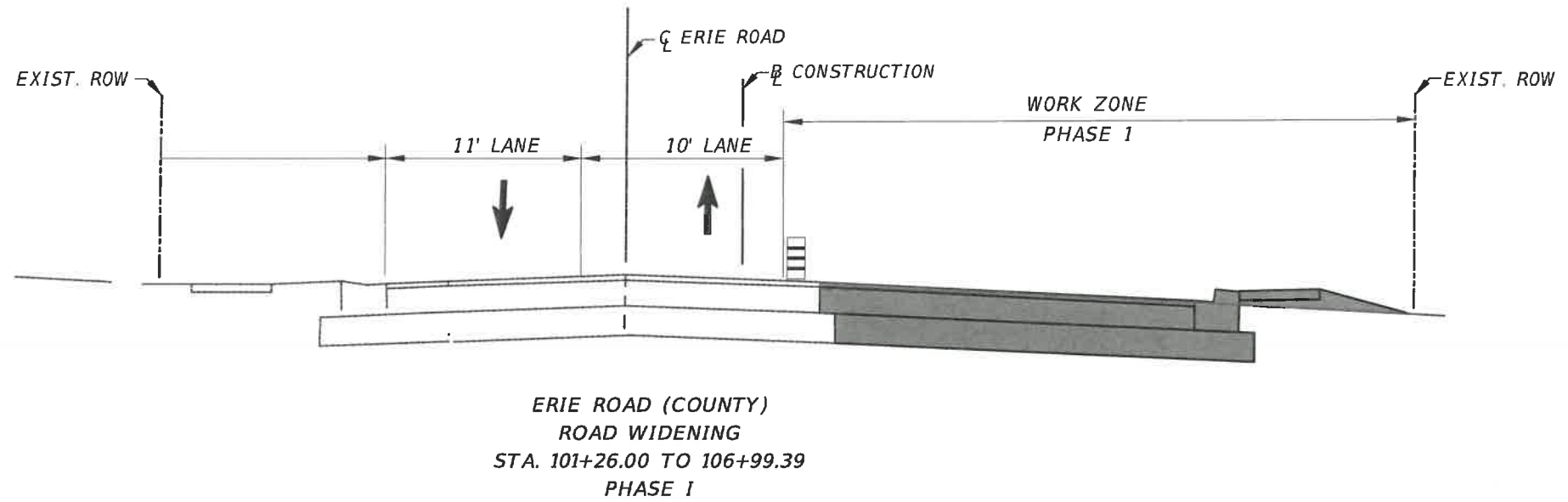
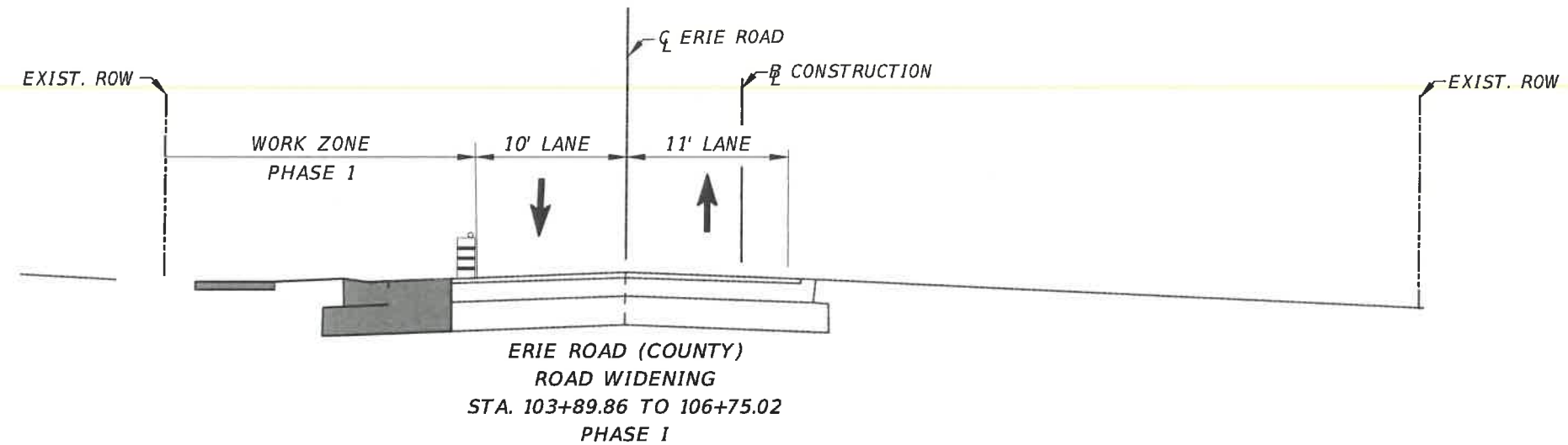
NOTE:
REFERENCE THE FDOT DESIGN STANDARDS
LATEST EDITION FOR ALL TEMPORARY
EROSION CONTROL MEASURES.



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DATE	DESCRIPTION	DATE

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SCALE	



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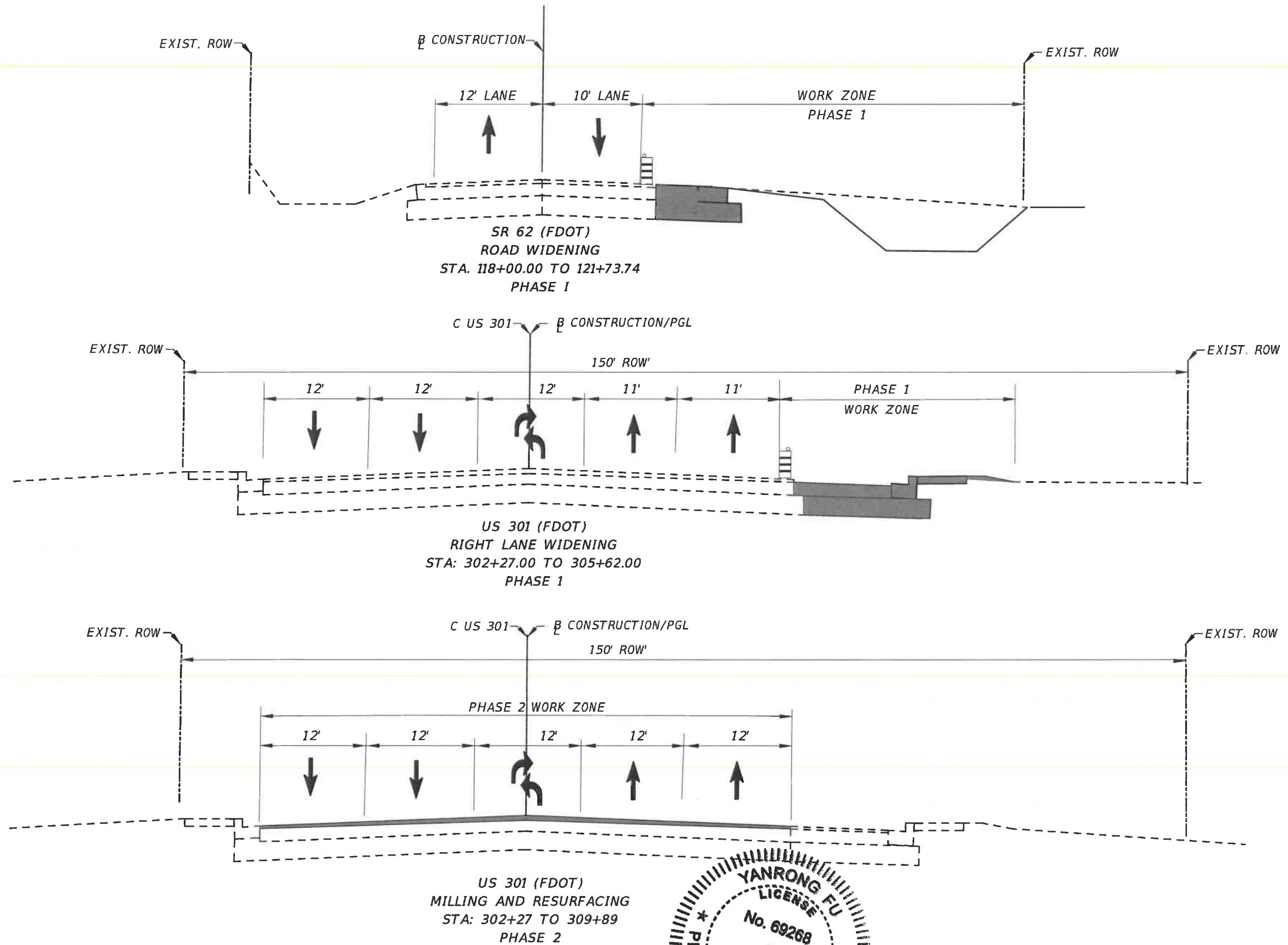
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ENGINEERING SERVICES
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ERIE RD. AND SR 62 IMPROVEMENTS
TEMPORARY TRAFFIC CONTROL PLAN

VERTICAL DATUM NGVD 1929
SHEET NO. 54

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			DRAWN	MCG 01/2019
			CHECKED	SF 08/2021
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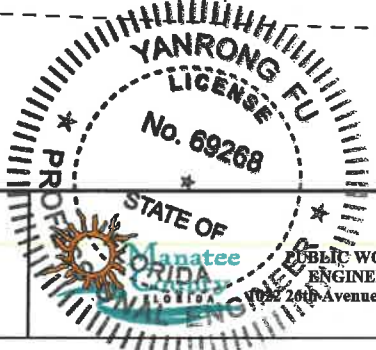
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DATE	DESCRIPTION	DATE

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PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	

YANRONG FU, P.E.
 FLORIDA P.E. # 69268

Yanrong Fu
 1/21/2021
 SIGNATURE AND DATE



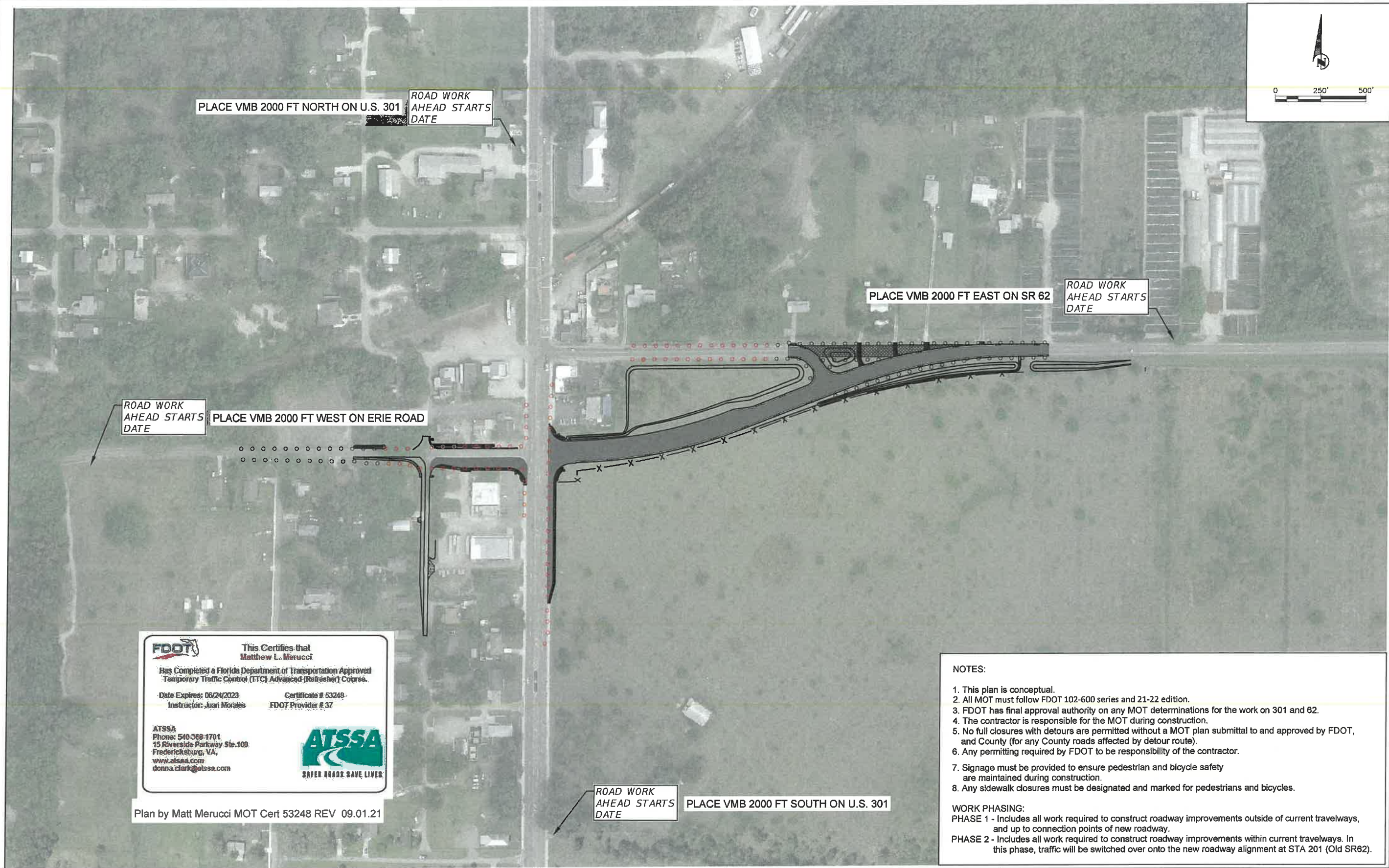
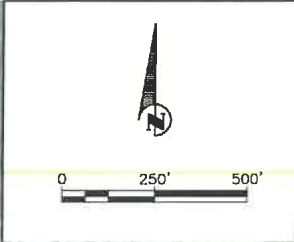
PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 7002 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS

TEMPORARY TRAFFIC CONTROL PLAN

VERTICAL DATUM
 NGVD 1929

SHEET NO.
 55



FDOT This Certifies that
Matthew L. Merucci
 Has Completed a Florida Department of Transportation Approved
 Temporary Traffic Control (TTC) Advanced (Refresher) Course.
 Date Expires: 06/24/2023 Certificate # 53248
 Instructor: Juan Morales FDOT Provider # 37

ATSSA
 Phone: 540-369-1701
 15 Riverside Parkway Ste.100
 Fredericksburg, VA
 www.atssa.com
 donna.clark@atssa.com

ATSSA
 SAFER ROAD. SAVE LIVES

Plan by Matt Merucci MOT Cert 53248 REV 09.01.21


NOTES:

1. This plan is conceptual.
2. All MOT must follow FDOT 102-600 series and 21-22 edition.
3. FDOT has final approval authority on any MOT determinations for the work on 301 and 62.
4. The contractor is responsible for the MOT during construction.
5. No full closures with detours are permitted without a MOT plan submittal to and approved by FDOT, and County (for any County roads affected by detour route).
6. Any permitting required by FDOT to be responsibility of the contractor.
7. Signage must be provided to ensure pedestrian and bicycle safety are maintained during construction.
8. Any sidewalk closures must be designated and marked for pedestrians and bicycles.

WORK PHASING:
 PHASE 1 - Includes all work required to construct roadway improvements outside of current travelways, and up to connection points of new roadway.
 PHASE 2 - Includes all work required to construct roadway improvements within current travelways. In this phase, traffic will be switched over onto the new roadway alignment at STA 201 (Old SR62).

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DATE	DESCRIPTION	DATE
	FDOT FPID # 445308-1-58-01	
	PROJECT # 850-6094060	SURVEYED ZNS 01/2019
	SURVEY # N/A	DESIGNED MM 10/29/20
	SEC./TWN./RGE 35/33/19	DRAWN MM 10/29/20
	SCALE	CHECKED MM 08/2021

 **Manatee County**
 FLORIDA
 PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS
TEMPORARY TRAFFIC CONTROL PLAN

VERTICAL DATUM NGVD 1929
 SHEET NO. 56

EXPLORATION PLAN

SR-62 and Erie Road ■ Parrish, Manatee County, Florida
September 1, 2020 ■ Terracon Project No. HC185059

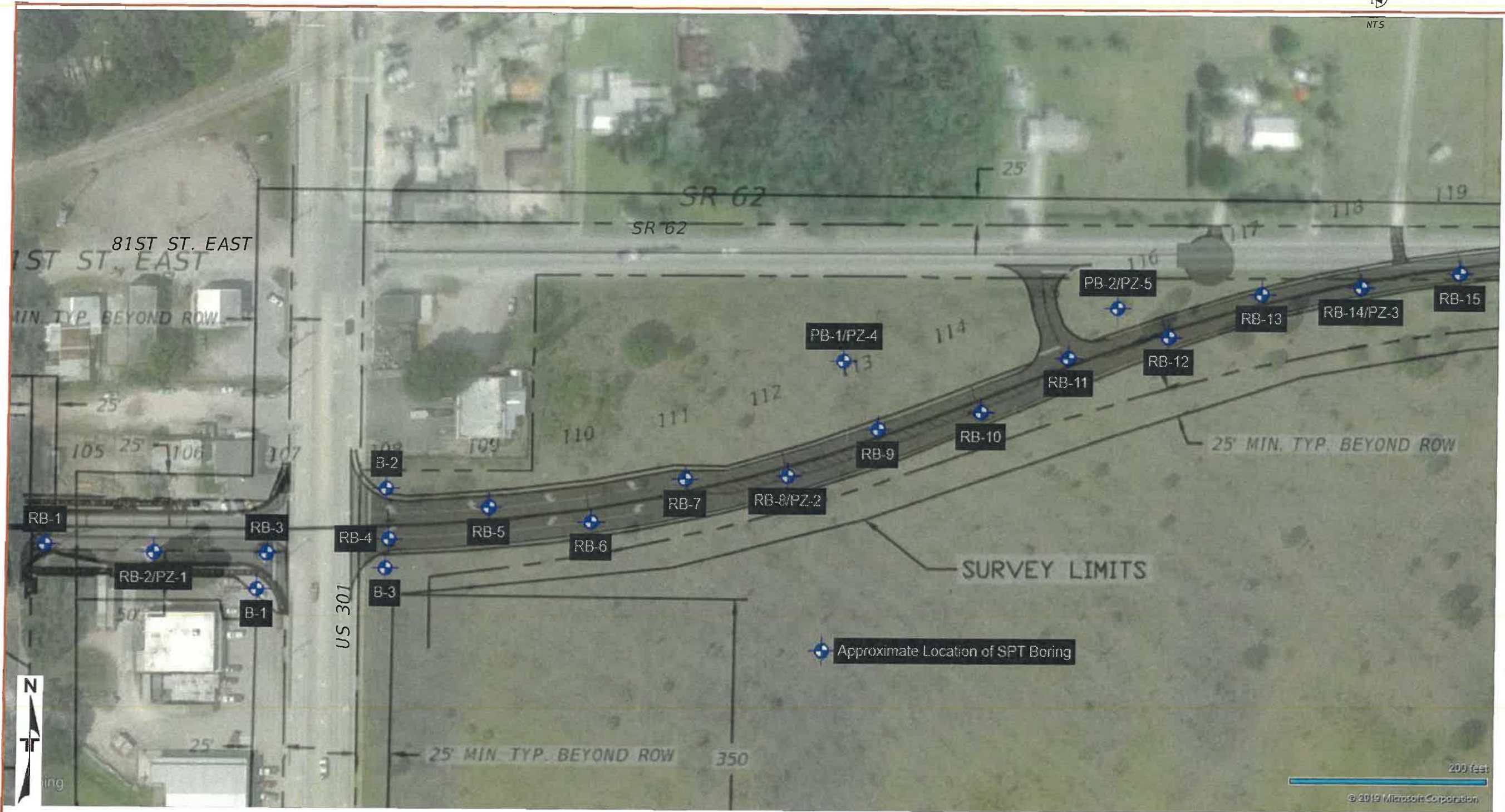


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

MAP PROVIDED BY MICROSOFT BING MAPS

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DATE	DESCRIPTION	DATE

FDOT FPID #	445308-1-58-01
PROJECT #	850-6094060
SURVEY #	
SEC./TWN./RGE	
SCALE	

INFORMATION PROVIDED ON THIS SHEET WAS PROVIDED BY TERRACON GEOTECHNICAL ENGINEERING REPORT DATED MAY 01, 2020. SIGNED AND SEALED BY JAMES M. JACKSON, PE, LICENSE #77733, DATED 5/20/2020



**PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES**
1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS
SOIL BORING LOCATION MAP


SHEET NO.
57

BORING LOG NO. RB-1										
PROJECT: SR 62 & Erie Road - Signal Poles					CLIENT: Manatee County Government Bradenton, FL					
SITE: SR 62 Parish, FL										
MODEL LAYER	GRAPHIC LOG	LOCATION	DEPTH (FL)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	PERCENT FINES		
		See Exploration Plan Latitude: 27.587° Longitude: -82.4284° Surface Elev.: 41.7 (FL)								
			10.0					12	7	
		POORLY GRADED SAND WITH SILT (A-3) (SP-SM), fine grained, brown to gray, loose to medium dense								
			5		2-3-4-5 N=7					
					5-7-12-11 N=19					
					5-9-9-9 N=17					
			10							
		Boring Terminated at 10 Feet								
Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic										
Advancement Method: Hand auger to 4 feet then mud rotary		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).		Notes: A-3: AASHTO Group Classification						
Abandonment Method: Boring backfilled with cement grout upon completion.		See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.								
WATER LEVEL OBSERVATIONS		Boring Started: 11-29-2018		Boring Completed: 11-29-2018						
At 4' while sampling		Dill Rig: BR-2500		Diller: MC						
		Project No.: HC185059								

BORING LOG NO. RB-2/PZ-1										
PROJECT: SR 62 & Erie Road - Signal Poles					CLIENT: Manatee County Government Bradenton, FL					
SITE: SR 62 Parish, FL										
MODEL LAYER	GRAPHIC LOG	LOCATION	DEPTH (FL)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	PERCENT FINES		
		See Exploration Plan Latitude: 27.5869° Longitude: -82.428° Surface Elev.: 42.7 (FL)								
			10.0					20	12	
		POORLY GRADED SAND WITH SILT (A-3, A-2-4) (SP-SM), fine grained, light brown to gray, loose to medium dense								
			5		2-3-4-3 N=7					
					3-3-4-3 N=7					
					3-5-10-10 N=16					
			10							
		Boring Terminated at 10 Feet								
Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic										
Advancement Method: Hand auger to 4 feet then mud rotary		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).		Notes: A-3: AASHTO Group Classification						
Abandonment Method: Boring backfilled with cement grout upon completion.		See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.								
WATER LEVEL OBSERVATIONS		Boring Started: 11-29-2018		Boring Completed: 11-29-2018						
At 4' while sampling		Dill Rig: BR-2500		Diller: MC						
		Project No.: HC185059								

BORING LOG NO. RB-3										
PROJECT: SR 62 & Erie Road - Signal Poles					CLIENT: Manatee County Government Bradenton, FL					
SITE: SR 62 Parish, FL										
MODEL LAYER	GRAPHIC LOG	LOCATION	DEPTH (FL)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	PERCENT FINES		
		See Exploration Plan Latitude: 27.5869° Longitude: -82.4287° Surface Elev.: 48.8 (FL)								
			10.0					21	7	
		POORLY GRADED SAND WITH SILT (A-3) (SP-SM), fine grained, light brown to gray, loose to medium dense								
			5		2-2-3-2 N=6					
					1-2-3-5 N=5					
					2-4-6-4 N=10					
			10							
		Boring Terminated at 10 Feet								
Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic										
Advancement Method: Hand auger to 4 feet then mud rotary		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).		Notes: A-3: AASHTO Group Classification						
Abandonment Method: Boring backfilled with cement grout upon completion.		See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.								
WATER LEVEL OBSERVATIONS		Boring Started: 11-29-2018		Boring Completed: 11-29-2018						
At 4' while sampling		Dill Rig: BR-2500		Diller: MC						
		Project No.: HC185059								

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DATE	DESCRIPTION	DATE	FDOT FPID #	445308-1-58-01	INFORMATION PROVIDED ON THIS SHEET WAS PROVIDED BY TERRACON GEOTECHNICAL ENGINEERING REPORT DATED MAY 01, 2020, SIGNED AND SEALED BY JAMES M. JACKSON, PE, LICENSE #77733, DATED 5/20/2020	 Manatee County PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	ERIE RD. AND SR 62 IMPROVEMENTS SOIL SURVEY	VERTICAL DATUM	NGVD 1929		
			PROJECT #	850-6094060						SHEET NO.	58
			SURVEY #								
			SEC./TWN./RGE								
			SCALE								

BORING LOG NO. RB-4									
PROJECT: SR 62 & Erie Road - Signal Poles					CLIENT: Manatee County Government Bradenton, FL				
SITE: SR 62 Parrish, FL									
MODEL LAYER	GRAPHIC LOG	LOCATION	DEPTH (FT)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	PERCENT FINES	
		See Exploration Plan Latitude: 27.687° Longitude: -82.4263° Surface Elev.: 43.2 (Ft.)							
		POORLY GRADED SAND WITH SILT (A-3) (SP-SM), fine grained, brown to gray, very loose to loose				3-3-2-2 N=3			
						2-1-1-1 N=2			
						2-1-1-1 N=2			
		SILTY SAND (A-2-4) (SM), fine grained, gray, loose to medium dense				2-2-3-4 N=5	21	14	
						4-4-7-8 N=1			
		Boring Terminated at 10 Feet							
Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic									
Advancement Method: Mud rotary		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).		Notes: A-3: AASHTO Group Classification					
Abandonment Method: Boring backfilled with cement grout upon completion.		See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.							
WATER LEVEL OBSERVATIONS		Boring Started: 11-21-2018 Drill Rig: BR-2500 Project No.: HC180039		Boring Completed: 11-21-2018					
At 4' while sampling		Terracon 6280 Vico Ct, Unit B Sarasota, FL							

BORING LOG NO. RB-5									
PROJECT: SR 62 & Erie Road - Signal Poles					CLIENT: Manatee County Government Bradenton, FL				
SITE: SR 62 Parrish, FL									
MODEL LAYER	GRAPHIC LOG	LOCATION	DEPTH (FT)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	PERCENT FINES	
		See Exploration Plan Latitude: 27.6871° Longitude: -82.425° Surface Elev.: 43.3 (Ft.)							
		POORLY GRADED SAND WITH SILT (A-3) (SP-SM), fine grained, brown to gray, very loose to loose				4-3-1-1 N=4			
						1-2-1-1 N=3			
						1-1-1-1 N=2			
						3-4-5-6 N=9			
		SILTY SAND (A-2-4) (SM), fine grained, gray, medium dense				4-5-5-7 N=10	20	13	
		Boring Terminated at 10 Feet							
Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic									
Advancement Method: Mud rotary		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).		Notes: A-3: AASHTO Group Classification					
Abandonment Method: Boring backfilled with cement grout upon completion.		See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.							
WATER LEVEL OBSERVATIONS		Boring Started: 11-21-2018 Drill Rig: BR-2500 Project No.: HC180039		Boring Completed: 11-21-2018					
At 4' while sampling		Terracon 6280 Vico Ct, Unit B Sarasota, FL							

BORING LOG NO. RB-6									
PROJECT: SR 62 & Erie Road - Signal Poles					CLIENT: Manatee County Government Bradenton, FL				
SITE: SR 62 Parrish, FL									
MODEL LAYER	GRAPHIC LOG	LOCATION	DEPTH (FT)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	PERCENT FINES	
		See Exploration Plan Latitude: 27.687° Longitude: -82.4247° Surface Elev.: 43.5 (Ft.)							
		POORLY GRADED SAND WITH SILT (A-3) (SP-SM), fine grained, brown to gray, very loose to medium dense				3-3-2-2 N=3	5	7	
						2-1-2-1 N=3			
						2-1-1-2 N=2			
						4-4-4-4 N=8			
						2-5-5-2 N=10			
		Boring Terminated at 10 Feet							
Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic									
Advancement Method: Mud rotary		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).		Notes: A-3: AASHTO Group Classification					
Abandonment Method: Boring backfilled with cement grout upon completion.		See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.							
WATER LEVEL OBSERVATIONS		Boring Started: 11-21-2018 Drill Rig: BR-2500 Project No.: HC180039		Boring Completed: 11-21-2018					
At 3.5' while sampling		Terracon 6280 Vico Ct, Unit B Sarasota, FL							

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DATE	DESCRIPTION	DATE	FDOT FPID #	445308-1-58-01	INFORMATION PROVIDED ON THIS SHEET WAS PROVIDED BY TERRACON GEOTECHNICAL ENGINEERING REPORT DATED MAY 01, 2020. SIGNED AND SEALED BY JAMES M. JACKSON, PE, LICENSE #77733, DATED 5/20/2020	 Manatee County PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	ERIE RD. AND SR 62 IMPROVEMENTS SOIL SURVEY	VERTICAL DATUM	NGVD 1929		
			PROJECT #	850-6094060				SURVEYED		SHEET NO.	59
			SURVEY #					DESIGNED			
			SEC./TWN./RGE					DRAWN			
			SCALE					CHECKED			

BORING LOG NO. RB-7									
PROJECT: SR 62 & Erie Road - Signal Poles					CLIENT: Manatee County Government Bradenton, FL				
SITE: SR 62 Parish, FL									
MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 27.5871° Longitude: -82.4244°	DEPTH (FT.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	PERCENT FINES	
		Surface Elev.: 43.3 (FL)							
		POORLY GRADED SAND WITH SILT (A-3) (SP-SM), fine grained, brown, very loose to medium dense				1-1-1-1 N=2			
						4-1-2-1 N=3	19	8	
			5			6-3-4-2 N=7			
						4-4-3 N=8			
						2-3-3-4 N=8			
		Boring Terminated at 10 Feet	10						
Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic									
Advancement Method: Mud rotary		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).		Notes: A-3 AASHTO Group Classification					
Abandonment Method: Boring backfilled with cement grout upon completion.		See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.							
WATER LEVEL OBSERVATIONS At 4' while sampling		Boring Started: 11-21-2018 Drill Rig: BR-2500 Project No.: HC165059		Boring Completed: 11-21-2018 Driver: MC					
Terracon 6260 Vico Ct, Unit B Sarasota, FL									

BORING LOG NO. RB-8/PZ-2									
PROJECT: SR 62 & Erie Road - Signal Poles					CLIENT: Manatee County Government Bradenton, FL				
SITE: SR 62 Parish, FL									
MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 27.5872° Longitude: -82.4244°	DEPTH (FT.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	PERCENT FINES	
		Surface Elev.: 43.8 (FL)							
		POORLY GRADED SAND WITH SILT (A-3, A-2-4) (SP-SM), fine grained, brown to gray, loose				2-2-3-2 N=5			
						2-1-2-3 N=5			
			5			2-2-2-2 N=4	23	11	
						2-2-4-7 N=6			
						2-2-5-7 N=7			
		Boring Terminated at 10 Feet	10						
Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic									
Advancement Method: Mud rotary		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).		Notes: A-3 AASHTO Group Classification					
Abandonment Method: Boring backfilled with cement grout upon completion.		See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.							
WATER LEVEL OBSERVATIONS At 4' while sampling		Boring Started: 11-27-2018 Drill Rig: BR-2500 Project No.: HC165059		Boring Completed: 11-27-2018 Driver: MC					
Terracon 6260 Vico Ct, Unit B Sarasota, FL									

BORING LOG NO. RB-9									
PROJECT: SR 62 & Erie Road - Signal Poles					CLIENT: Manatee County Government Bradenton, FL				
SITE: SR 62 Parish, FL									
MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 27.5873° Longitude: -82.4238°	DEPTH (FT.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	PERCENT FINES	
		Surface Elev.: 43.7 (FL)							
		POORLY GRADED SAND WITH SILT (A-3) (SP-SM), fine grained, brown to light brown, very loose to loose				2-2-2-3 N=4			
						2-2-2-2 N=4			
			5			2-1-2-1 N=3			
		SILTY SAND (A-2-4) (SM), fine grained, light brown, loose to medium dense				5-8-5-4 N=13	18	16	
						2-4-5-7 N=9			
		Boring Terminated at 10 Feet	10						
Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic									
Advancement Method: Mud rotary		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).		Notes: A-3 AASHTO Group Classification					
Abandonment Method: Boring backfilled with cement grout upon completion.		See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.							
WATER LEVEL OBSERVATIONS At 4' while sampling		Boring Started: 11-27-2018 Drill Rig: BR-2500 Project No.: HC165059		Boring Completed: 11-27-2018 Driver: MC					
Terracon 6260 Vico Ct, Unit B Sarasota, FL									

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DATE	DESCRIPTION	DATE	FDOT FPID #	445308-1-58-01	INFORMATION PROVIDED ON THIS SHEET WAS PROVIDED BY TERRACON GEOTECHNICAL ENGINEERING REPORT DATED MAY 01, 2020, SIGNED AND SEALED BY JAMES M. JACKSON, PE, LICENSE #77733, DATED 5/20/2020				ERIE RD. AND SR 62 IMPROVEMENTS		VERTICAL DATUM NGVD 1929
			PROJECT #	850-6094060	SURVEYED				SOIL SURVEY		SHEET NO. 60
			SURVEY #		DESIGNED						
			SEC./TWN./RGE		DRAWN						
			SCALE		CHECKED						
			 Manatee County FLORIDA PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208								

BORING LOG NO. RB-10									
PROJECT: SR 62 & Erie Road - Signal Poles					CLIENT: Manatee County Government Bradenton, FL				
SITE: SR 62 Parrish, FL									
MODEL LAYER	GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	PERCENT FINES	
		See Exploration Plan Latitude: 27.5873° Longitude: -82.4235° Surface Elev.: 44.3 (Ft.)							
			5			2-1-1-2 N=2			
						2-2-2-2 N=4			
						2-1-3-1 N=3			
						2-4-5-7 N=9			
						2-2-4-6 N=6	20	9	
Boring Terminated at 10 Feet									
Stratification lines are approximate. In situ, the transition may be gradual. Hammer Type: Automatic									
Advancement Method: Mud rotary		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any). See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.		Notes: A-3: AASHTO Group Classification					
Abandonment Method: Boring backfilled with cement grout upon completion.		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any). See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.		Notes: A-3: AASHTO Group Classification					
WATER LEVEL OBSERVATIONS		Boring Started: 11-27-2018		Boring Completed: 11-27-2018					
At 4' while sampling		Drill Rig: BR-2500		Driller: MC					
		Project No.: HC18009							


BORING LOG NO. RB-11									
PROJECT: SR 62 & Erie Road - Signal Poles					CLIENT: Manatee County Government Bradenton, FL				
SITE: SR 62 Parrish, FL									
MODEL LAYER	GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	PERCENT FINES	
		See Exploration Plan Latitude: 27.5873° Longitude: -82.4232° Surface Elev.: 43.8 (Ft.)							
			5			1-2-1-2 N=3	5	12	
						2-4-3-4 N=7			
						2-4-7-6 N=11			
						2-5-4-4 N=9			
						2-2-1-2 N=3			
Boring Terminated at 10 Feet									
Stratification lines are approximate. In situ, the transition may be gradual. Hammer Type: Automatic									
Advancement Method: Mud rotary		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any). See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.		Notes: A-3: AASHTO Group Classification					
Abandonment Method: Boring backfilled with cement grout upon completion.		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any). See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.		Notes: A-3: AASHTO Group Classification					
WATER LEVEL OBSERVATIONS		Boring Started: 11-27-2018		Boring Completed: 11-27-2018					
At 4' while sampling		Drill Rig: BR-2500		Driller: MC					
		Project No.: HC18009							


BORING LOG NO. RB-12									
PROJECT: SR 62 & Erie Road - Signal Poles					CLIENT: Manatee County Government Bradenton, FL				
SITE: SR 62 Parrish, FL									
MODEL LAYER	GRAPHIC LOG	LOCATION	DEPTH (Ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	PERCENT FINES	
		See Exploration Plan Latitude: 27.5873° Longitude: -82.4229° Surface Elev.: 43.7 (Ft.)							
			5			2-3-2-2 N=4			
						2-1-1-1 N=2	7	7	
						1-2-1-1 N=3			
						4-0-4-5 N=10			
						3-4-6-5 N=10			
Boring Terminated at 10 Feet									
Stratification lines are approximate. In situ, the transition may be gradual. Hammer Type: Automatic									
Advancement Method: Mud rotary		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any). See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.		Notes: A-3: AASHTO Group Classification					
Abandonment Method: Boring backfilled with cement grout upon completion.		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any). See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.		Notes: A-3: AASHTO Group Classification					
WATER LEVEL OBSERVATIONS		Boring Started: 11-27-2018		Boring Completed: 11-27-2018					
At 4' while sampling		Drill Rig: BR-2500		Driller: MC					
		Project No.: HC18009							


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DATE	DESCRIPTION	DATE	FDOT FPID #	445308-1-58-01	INFORMATION PROVIDED ON THIS SHEET WAS PROVIDED BY TERRACON GEOTECHNICAL ENGINEERING REPORT DATED MAY 01, 2020, SIGNED AND SEALED BY JAMES M. JACKSON, P.E. LICENSE #77733, DATED 5/20/2020	 Manatee County FLORIDA PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	ERIE RD. AND SR 62 IMPROVEMENTS	SOIL SURVEY	VERTICAL DATUM	NGVD 1929			
			PROJECT #	850-6094060					SURVEYED			SHEET NO.	61
			SURVEY #						DESIGNED				
			SEC./TWN./RGE						DRAWN				
			SCALE						CHECKED				


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BORING LOG NO. RB-13									
PROJECT: SR 62 & Erie Road - Signal Poles					CLIENT: Manatee County Government Bradenton, FL				
SITE: SR 62 Parish, FL									
LOCATION: See Exploration Plan Latitude: 27.5577° Longitude: -82.4228° Surface Elev.: 42.9 (FL)									
MODEL LAYER	DEPTH (FT)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	PERCENT FINES			
GRAPHIC LOG									
	0.0								
	5.0		3-4-3 N=3						
	5.5		2-2-2 N=4						
	6.0		1-WOH/12-1 N=1		25	9			
	10.0		5-8-12-14 N=20						
	10.0		4-8-12-11 N=18						
Boring Terminated at 10 Feet									
Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic									
Advancement Method: Mud rotary Abandonment Method: Boring backfilled with cement grout upon completion.		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any). See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.		Notes: A-3: AASHTO Group Classification Boring Started: 11-28-2018 Boring Completed: 11-28-2018 Drill Rig: BR-2500 Driller: MC Project No.: HC180029					
WATER LEVEL OBSERVATIONS At 4' while sampling									

BORING LOG NO. RB-14/PZ-3									
PROJECT: SR 62 & Erie Road - Signal Poles					CLIENT: Manatee County Government Bradenton, FL				
SITE: SR 62 Parish, FL									
LOCATION: See Exploration Plan Latitude: 27.5577° Longitude: -82.4223° Surface Elev.: 43 (FL)									
MODEL LAYER	DEPTH (FT)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	PERCENT FINES			
GRAPHIC LOG									
	0.0								
	5.0			2-2-2-2 N=4					
	5.5			2-2-2-3 N=4					
	6.0			2-2-2-3 N=4					
	10.0			2-2-10-15 N=12	18	18			
	10.0			5-8-9-9 N=16					
Boring Terminated at 10 Feet									
Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic									
Advancement Method: Mud rotary Abandonment Method: Boring backfilled with cement grout upon completion.		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any). See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.		Notes: Boring Started: 11-28-2018 Boring Completed: 11-28-2018 Drill Rig: BR-2500 Driller: MC Project No.: HC180029					
WATER LEVEL OBSERVATIONS At 4.5' while sampling									

BORING LOG NO. RB-15									
PROJECT: SR 62 & Erie Road - Signal Poles					CLIENT: Manatee County Government Bradenton, FL				
SITE: SR 62 Parish, FL									
LOCATION: See Exploration Plan Latitude: 27.5577° Longitude: -82.4227° Surface Elev.: 43.7 (FL)									
MODEL LAYER	DEPTH (FT)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	PERCENT FINES			
GRAPHIC LOG									
	0.0								
	5.0			4-3-3-3 N=6					
	5.5			2-1-1-2 N=2					
	6.0			2-2-2-2 N=4					
	10.0			4-8-8-7 N=16					
	10.0			3-4-8-6 N=10	20	11			
Boring Terminated at 10 Feet									
Stratification lines are approximate. In-situ, the transition may be gradual. Hammer Type: Automatic									
Advancement Method: Mud rotary Abandonment Method: Boring backfilled with cement grout upon completion.		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any). See Supporting Information for explanation of symbols and abbreviations. Elevations were provided by others.		Notes: Boring Started: 11-28-2018 Boring Completed: 11-28-2018 Drill Rig: BR-2500 Driller: MC Project No.: HC180029					
WATER LEVEL OBSERVATIONS At 4.5' while sampling									


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

DATE	DESCRIPTION	DATE	FDOT FPID #	445308-1-58-01	INFORMATION PROVIDED ON THIS SHEET WAS PROVIDED BY TERRACON GEOTECHNICAL ENGINEERING REPORT DATED MAY 01, 2020, SIGNED AND SEALED BY JAMES M. JACKSON, P.E. LICENSE #77733, DATED 5/20/2020	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	ERIE RD. AND SR 62 IMPROVEMENTS SOIL SURVEY	VERTICAL DATUM	NGVD 1929		
			PROJECT #	850-6094060						SHEET NO.	62
			SURVEY #	DESIGNED							
			SEC./TWN./RGE	DRAWN							
			SCALE	CHECKED							

BORING LOG NO. PB-1/PZ-4							Page 1 of 1	
PROJECT: SR 62 & Erie Road - Signal Poles			CLIENT: Manatee County Government Bradenton, FL					
SITE: SR 62 Parish, FL								
MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 27.6878° Longitude: -82.4236° Approximate Surface Elev.: 43.6 (FL) +/-	DEPTH (ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	PERCENT FINES
			0			2-2-1-2 N=3		
			1			1-1-1-1 N=2		
			5			1-1-1-1 N=2	27	8
			10			1-2-1-1 N=3		
			10			2-2-2-4 N=4	22	5
			10			2-4-4-3 N=8		
			15			1-1-2-1 N=3		
			15			4-7-5-8 N=12	30	8
			15			8-12-17-25 N=29		
			20			22-25-30-38 N=55		
		Boring Terminated at 20 Feet	20					
Stabilization lines are approximate. In-situ, the transition may be gradual.			Hammer Type: Automatic					
Advancement Method: Mud rotary		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).		Notes:				
Abandonment Method: Boring backfilled with bentonite chips upon completion.		See Supporting Information for explanation of symbols and abbreviations.		Elevations were interpolated from a topographic site plan.				
WATER LEVEL OBSERVATIONS		Boring Started: 02-01-2019		Boring Completed: 02-01-2019				
▽ At 4' white sampling		Drill Rig: BR-2500		Driller: MD				
		Project No.: HC186039						

BORING LOG NO. PB-2/PZ-5							Page 1 of 1	
PROJECT: SR 62 & Erie Road - Signal Poles			CLIENT: Manatee County Government Bradenton, FL					
SITE: SR 62 Parish, FL								
MODEL LAYER	GRAPHIC LOG	LOCATION See Exploration Plan Latitude: 27.6878° Longitude: -82.4231° Approximate Surface Elev.: 43.4 (FL) +/-	DEPTH (ft.)	WATER LEVEL OBSERVATIONS	SAMPLE TYPE	FIELD TEST RESULTS	WATER CONTENT (%)	PERCENT FINES
			0			2-1-2-2 N=3		
			1			1-1-1-1 N=2	20	8
			5			1-1-1-1 N=2		
			10			1-1-1-2 N=2		
			10			2-2-2-2 N=4	24	4
			10			3-1-1-2 N=2		
			15			3-5-5-8 N=11	28	12
			15			9-11-20-25 N=31		
			15			23-27-30-37 N=57		
			20			18-22-38-50 N=58		
		Boring Terminated at 20 Feet	20					
Stabilization lines are approximate. In-situ, the transition may be gradual.			Hammer Type: Automatic					
Advancement Method: Mud rotary		See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (if any).		Notes:				
Abandonment Method: Boring backfilled with bentonite chips upon completion.		See Supporting Information for explanation of symbols and abbreviations.		Elevations were interpolated from a topographic site plan.				
WATER LEVEL OBSERVATIONS		Boring Started: 02-01-2019		Boring Completed: 02-01-2019				
▽ At 4' white sampling		Drill Rig: BR-2500		Driller: MC				
		Project No.: HC186039						

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DATE	DESCRIPTION	DATE	FDOT FPID #	445308-1-58-01	INFORMATION PROVIDED ON THIS SHEET WAS PROVIDED BY TERRACON GEOTECHNICAL ENGINEERING REPORT DATED MAY 01, 2020, SIGNED AND SEALED BY JAMES M. JACKSON, PE, LICENSE #77733, DATED 5/20/2020				 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	ERIE RD. AND SR 62 IMPROVEMENTS	VERTICAL DATUM NGVD 1929			
			PROJECT #	850-6094060						SURVEYED			SOIL SURVEY	SHEET NO.
			SURVEY #							DESIGNED				63
			SEC./TWN./RGE							DRAWN				
			SCALE							CHECKED				



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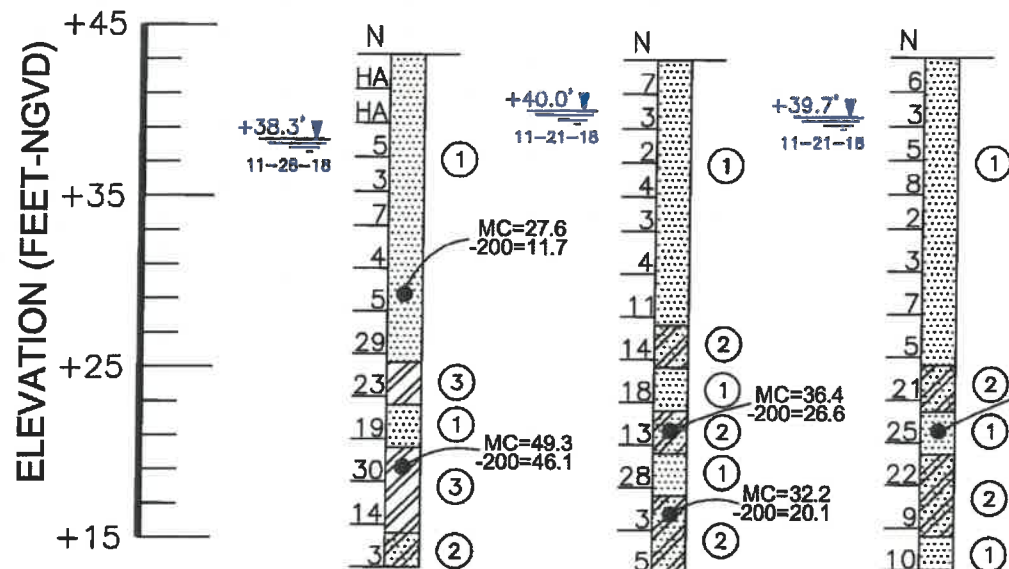


LEGEND



APPROXIMATE LOCATION OF STANDARD PENETRATION TEST BORING

BORING NO. ELEVATION:
 B-1 +43.3
 B-2 +43.0
 B-3 +43.2



GENERAL LEGEND

- ① Brown to gray SAND with silt, sometimes with sand-sized phosphate grains (A-3, SP, SP-SM)
- ② Dark gray, gray, and tan clayey SAND (A-2-6, SC)
- ③ Gray clayey SAND to sandy CLAY (A-6, SC)

N - Standard penetration resistance in blows per foot unless otherwise noted

SP - Unified Soil Classification System Group Symbol (ASTM D 2487)

+38.3' - Elevation of groundwater (feet-NGVD) & date measured

MC - Moisture Content (%)

-200 - Amount Finer Than The U.S. Standard No. 200 Sieve (%)

ENGINEERING CLASSIFICATION (AUTOMATIC HAMMER)

GRANULAR MATERIALS

Relative Density	SPT BLOW-COUNTS
Very Loose	Less than 2
Loose	3 - 8
Medium Dense	8 - 24
Dense	24 - 40
Very Dense	Greater than 40

SILTS AND CLAYS

Consistency	SPT BLOW-COUNTS
Very Soft	Less than 1
Soft	1 - 3
Firm	3 - 6
Stiff	6 - 12
Very Stiff	12 - 24
Hard	Greater than 24

STANDARD PENETRATION TEST DATA

SPOON INSIDE DIA.	1.375 inch
SPOON OUTSIDE DIA.	2.00 inches
AVG. HAMMER DROP	30 inches
HAMMER WEIGHT	140 pounds

SUMMARY OF FOUNDATION DESIGN PARAMETERS FOR B-1

Depth (feet)	Soil Type	Unit Weight (pcf)		Angle of Internal Friction (degrees)	Effective Cohesion (psf)	Earth Pressure Coefficients		Soil Modulus, k (pci)
		Moist	Submerged			Ka	Kp	
0 to 18	SAND	105	43	29	0	0.347	2.88	11
18 to 20.5	CLAY	125	63	0	3,100	1.00	1.00	-
20.5 to 23	SAND	115	53	34	0	0.283	3.54	65
23 to 28	CLAY	125	63	0	2,900	1.00	1.00	-
28 to 30	SAND	105	43	23	0	0.438	2.28	7

SUMMARY OF FOUNDATION DESIGN PARAMETERS FOR B-2

Depth (feet)	Soil Type	Unit Weight (pcf)		Angle of Internal Friction (degrees)	Effective Cohesion (psf)	Earth Pressure Coefficients		Soil Modulus, k (pci)
		Moist	Submerged			Ka	Kp	
0 to 13	SAND	105	43	28	0	0.361	2.77	11
13 to 25.5	SAND	115	53	32	0	0.307	3.25	65
25.5 to 30	SAND	105	43	23	0	0.438	2.28	11

SUMMARY OF FOUNDATION DESIGN PARAMETERS FOR B-3

Depth (feet)	Soil Type	Unit Weight (pcf)		Angle of Internal Friction (degrees)	Effective Cohesion (psf)	Earth Pressure Coefficients		Soil Modulus, k (pci)
		Moist	Submerged			Ka	Kp	
0 to 18	SAND	105	43	29	0	0.347	2.88	11
18 to 30	SAND	115	53	29	0	0.347	2.88	55

NOTES

- (1) Borings were drilled on November 21 and 28, 2018 using a BR 2500 drilling rig equipped with an automatic hammer.
- (2) Strata boundaries are approximate and represent soil strata at each test hole location only. Soil transitions may be more gradual than implied.
- (3) Groundwater elevations shown on the subsurface profiles represent the groundwater levels on the dates shown. Groundwater level fluctuations should be anticipated throughout the year.
- (4) Elevations were provided by the project surveyor, ZNS Engineering.



Project Mgr:	JMJ	Project No.:	HC185059
Drawn By:	JMJ	Scale:	AS-SHOWN
Checked By:	SNP	File No.:	1
Approved By:	DSD	Date:	12-21-18, REV. 9-1-20

Terracon
 Consulting Engineers and Scientists
 8280 VICO COURT, UNIT B SARASOTA, FL 34240
 PH. (841) 379-0821 FAX. (841) 379-5081

REPORT OF CORE BORINGS
 GEOTECHNICAL ENGINEERING REPORT
 ERIE ROAD AT SR-62
 MANATEE COUNTY, FLORIDA

EXHIBIT
 1

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DATE	DESCRIPTION	DATE	DATE
	FDOT FPID # 445308-1-58-01		
	PROJECT # 850-6094060	SURVEYED	
	SURVEY #	DESIGNED	
	SEC./TWN./RGE	DRAWN	
	SCALE	CHECKED	

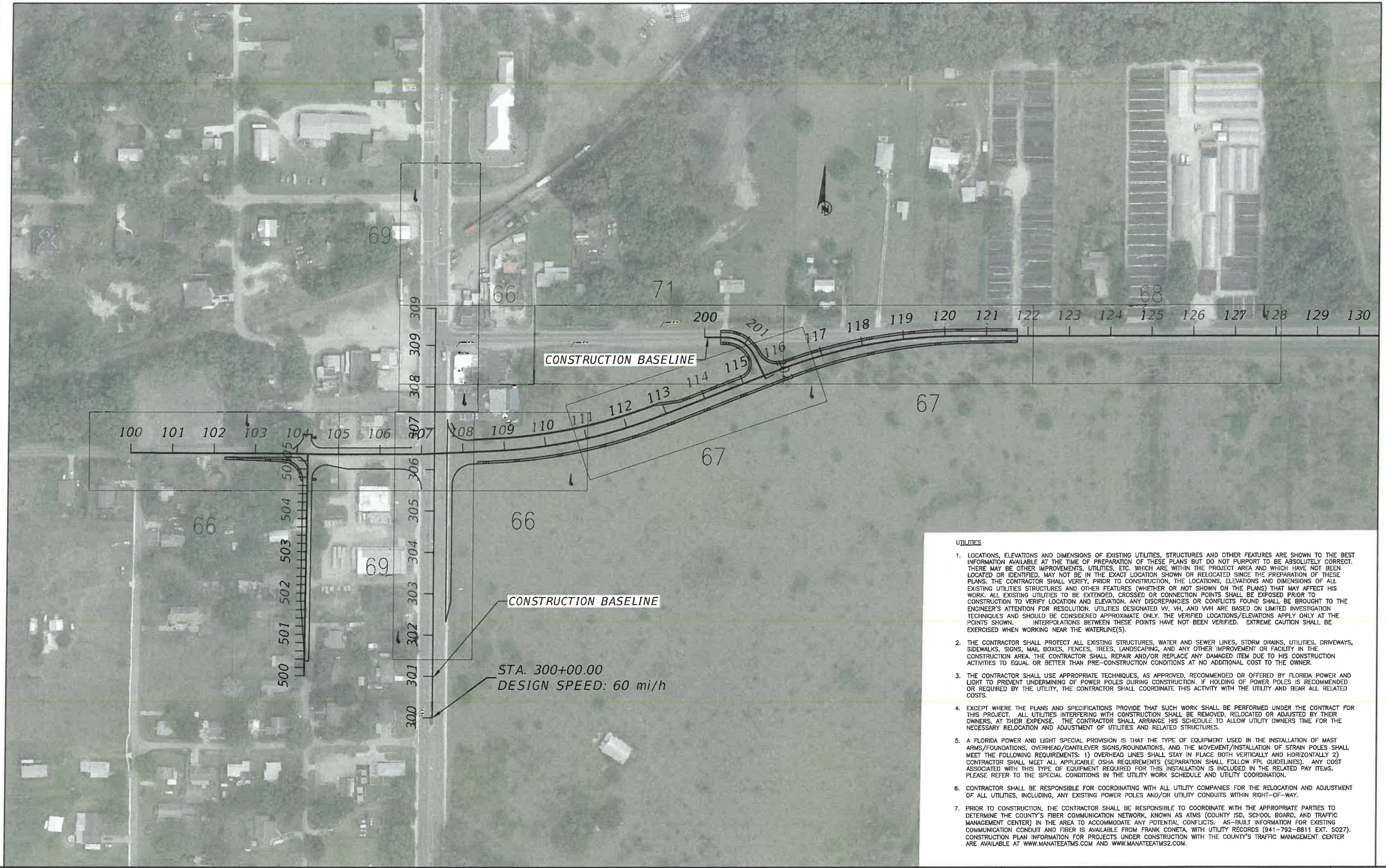
INFORMATION PROVIDED ON THIS SHEET WAS PROVIDED BY TERRACON GEOTECHNICAL ENGINEERING REPORT DATED MAY 01, 2020, SIGNED AND SEALED BY JAMES M. JACKSON, P.E. LICENSE #77733, DATED 5/20/2020

Manatee County PUBLIC WORKS DEPARTMENT
 ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS
 SOIL SURVEY


VERTICAL DATUM NGVD 1929
 SHEET NO. 64

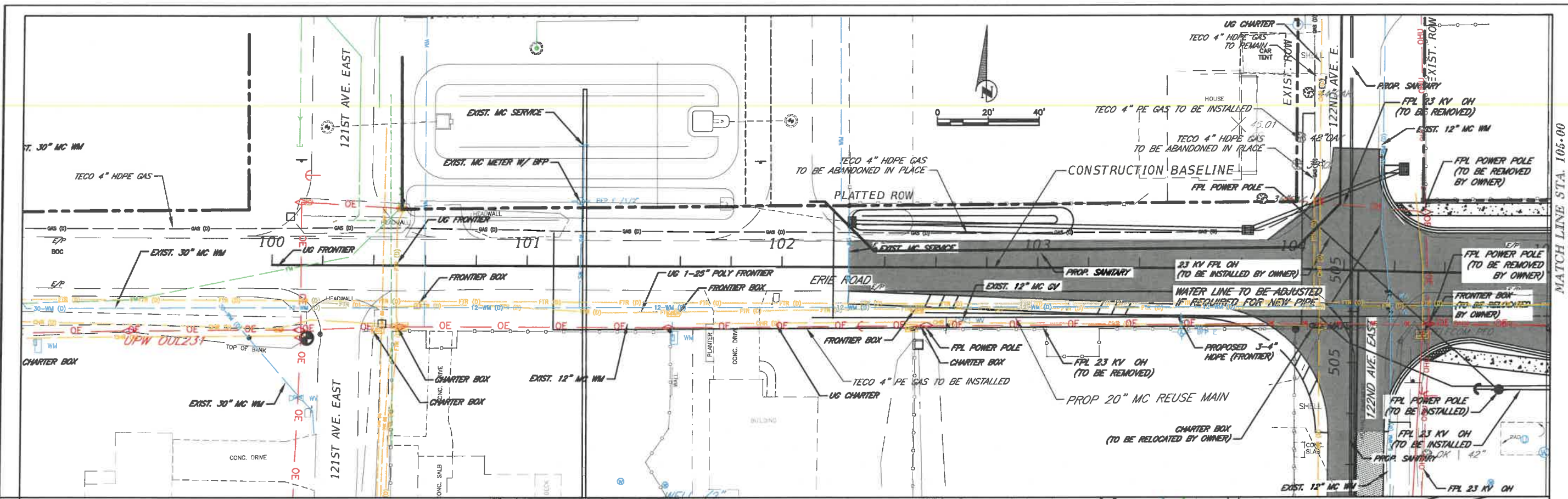
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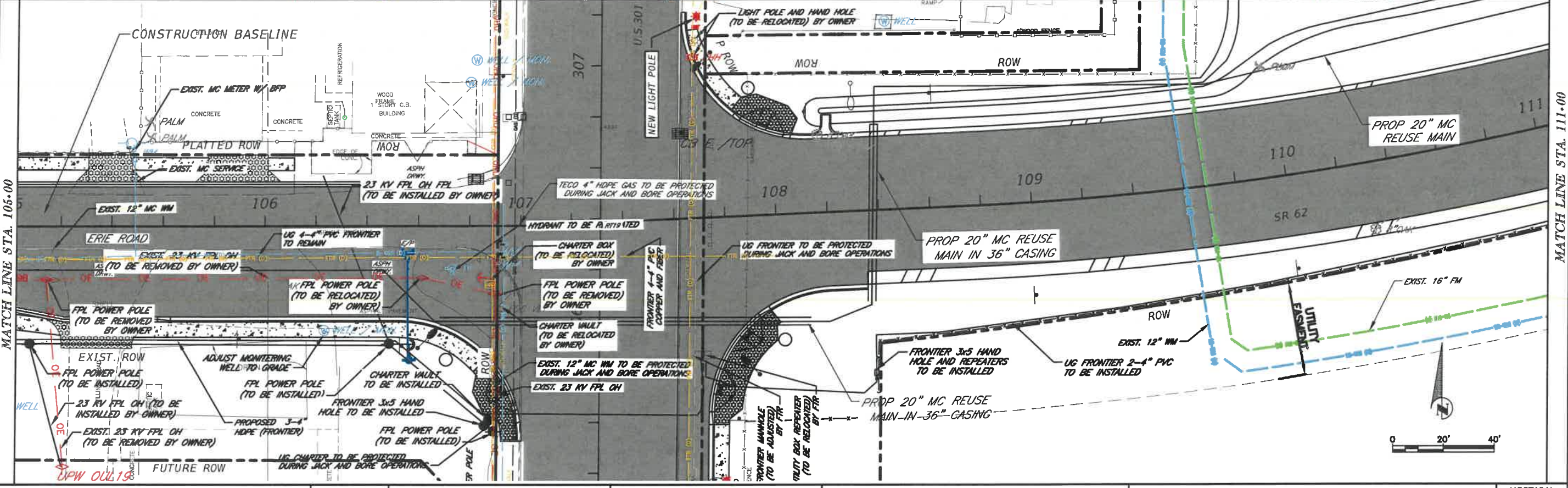
UTILITIES

1. LOCATIONS, ELEVATIONS AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES AND OTHER FEATURES ARE SHOWN TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT. THERE MAY BE OTHER IMPROVEMENTS, UTILITIES, ETC. WHICH ARE WITHIN THE PROJECT AREA AND WHICH HAVE NOT BEEN LOCATED OR IDENTIFIED, MAY NOT BE IN THE EXACT LOCATION SHOWN OR RELOCATED SINCE THE PREPARATION OF THESE PLANS. THE CONTRACTOR SHALL VERIFY, PRIOR TO CONSTRUCTION, THE LOCATIONS, ELEVATIONS AND DIMENSIONS OF ALL EXISTING UTILITIES STRUCTURES AND OTHER FEATURES (WHETHER OR NOT SHOWN ON THE PLANS) THAT MAY AFFECT HIS WORK. ALL EXISTING UTILITIES TO BE EXTENDED, CROSSED OR CONNECTION POINTS SHALL BE EXPOSED PRIOR TO CONSTRUCTION TO VERIFY LOCATION AND ELEVATION. ANY DISCREPANCIES OR CONFLICTS FOUND SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR RESOLUTION. UTILITIES DESIGNATED W, V, H, AND WH ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED. EXTREME CAUTION SHALL BE EXERCISED WHEN WORKING NEAR THE WATERLINE(S).
2. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, WATER AND SEWER LINES, STORM DRAINS, UTILITIES, DRIVEWAYS, SIDEWALKS, SIGNS, MAIL BOXES, FENCES, TREES, LANDSCAPING, AND ANY OTHER IMPROVEMENT OR FACILITY IN THE CONSTRUCTION AREA. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DAMAGED ITEM DUE TO HIS CONSTRUCTION ACTIVITIES TO EQUAL OR BETTER THAN PRE-CONSTRUCTION CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
3. THE CONTRACTOR SHALL USE APPROPRIATE TECHNIQUES, AS APPROVED, RECOMMENDED OR OFFERED BY FLORIDA POWER AND LIGHT TO PREVENT UNDERMINING OF POWER POLES DURING CONSTRUCTION. IF HOLDING OF POWER POLES IS RECOMMENDED OR REQUIRED BY THE UTILITY, THE CONTRACTOR SHALL COORDINATE THIS ACTIVITY WITH THE UTILITY AND BEAR ALL RELATED COSTS.
4. EXCEPT WHERE THE PLANS AND SPECIFICATIONS PROVIDE THAT SUCH WORK SHALL BE PERFORMED UNDER THE CONTRACT FOR THIS PROJECT, ALL UTILITIES INTERFERING WITH CONSTRUCTION SHALL BE REMOVED, RELOCATED OR ADJUSTED BY THEIR OWNERS, AT THEIR EXPENSE. THE CONTRACTOR SHALL ARRANGE HIS SCHEDULE TO ALLOW UTILITY OWNERS TIME FOR THE NECESSARY RELOCATION AND ADJUSTMENT OF UTILITIES AND RELATED STRUCTURES.
5. A FLORIDA POWER AND LIGHT SPECIAL PROVISION IS THAT THE TYPE OF EQUIPMENT USED IN THE INSTALLATION OF MAST ARMS/FOUNDATIONS, OVERHEAD/CANTILEVER SIGNS/FOUNDATIONS, AND THE MOVEMENT/INSTALLATION OF STRAIN POLES SHALL MEET THE FOLLOWING REQUIREMENTS: 1) OVERHEAD LINES SHALL STAY IN PLACE BOTH VERTICALLY AND HORIZONTALLY 2) CONTRACTOR SHALL MEET ALL APPLICABLE OSHA REQUIREMENTS (SEPARATION SHALL FOLLOW FPL GUIDELINES). ANY COST ASSOCIATED WITH THIS TYPE OF EQUIPMENT REQUIRED FOR THIS INSTALLATION IS INCLUDED IN THE RELATED PAY ITEMS. PLEASE REFER TO THE SPECIAL CONDITIONS IN THE UTILITY WORK SCHEDULE AND UTILITY COORDINATION.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH ALL UTILITY COMPANIES FOR THE RELOCATION AND ADJUSTMENT OF ALL UTILITIES, INCLUDING, ANY EXISTING POWER POLES AND/OR UTILITY CONDUITS WITHIN RIGHT-OF-WAY.
7. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE APPROPRIATE PARTIES TO DETERMINE THE COUNTY'S FIBER COMMUNICATION NETWORK, KNOWN AS ATMS (COUNTY ISD, SCHOOL BOARD, AND TRAFFIC MANAGEMENT CENTER) IN THE AREA TO ACCOMMODATE ANY POTENTIAL CONFLICTS. AS-BUILT INFORMATION FOR EXISTING COMMUNICATION CONDUIT AND FIBER IS AVAILABLE FROM FRANK CONETA, WITH UTILITY RECORDS (941-792-8811 EXT. 5027). CONSTRUCTION PLAN INFORMATION FOR PROJECTS UNDER CONSTRUCTION WITH THE COUNTY'S TRAFFIC MANAGEMENT CENTER ARE AVAILABLE AT WWW.MANATEEATMS.COM AND WWW.MANATEEATMS2.COM.

DATE		DESCRIPTION		DATE		FDOT FPID # 445308-1-58-01 PROJECT # 850-6094060 SURVEYED SURVEY # N/A DESIGNED SEC./TWN./RGE 35/33/19 DRAWN MCG 01/2019 SCALE CHECKED	EXISTING UTILITY LOCATIONS PROVIDED BY OUTSIDE UTILITY COMPANIES AND MANATEE COUNTY UTILITIES DEPARTMENT. THESE LOCATIONS ARE NOT EXACT. CONTRACTOR IS RESPONSIBLE TO LOCATE AND VERIFY ALL EXISTING UTILITIES.	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	ERIE RD. AND SR 62 IMPROVEMENTS UTILITY ADJUSTMENT SHEET LAYOUT PLAN	VERTICAL DATUM NGVD 1929 SHEET NO. 65
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MATCH LINE STA. 105+00




MATCH LINE STA. 111+00

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DATE	DESCRIPTION	DATE

FDOT FPID #	445308-1-58-01
PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	CHECKED

EXISTING UTILITY LOCATIONS PROVIDED BY OUTSIDE UTILITY COMPANIES AND MANATEE COUNTY UTILITIES DEPARTMENT. THESE LOCATIONS ARE NOT EXACT. CONTRACTOR IS RESPONSIBLE TO LOCATE AND VERIFY ALL EXISTING UTILITIES.



Manatee County
FLORIDA

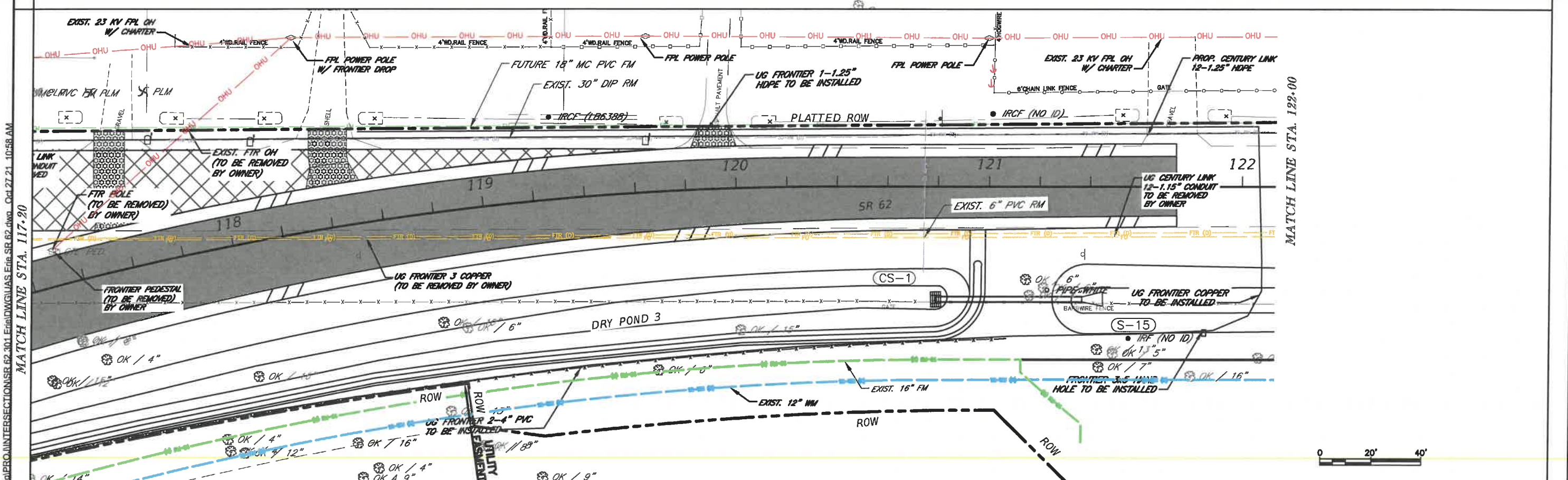
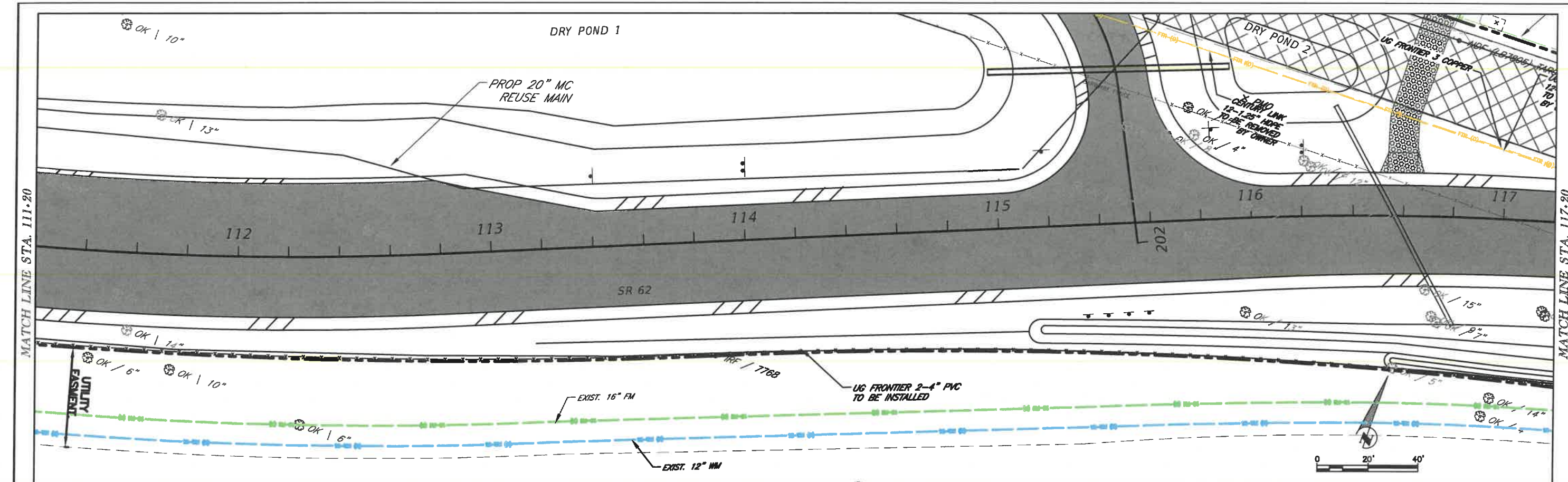
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS

UTILITY ADJUSTMENTS
STA. 100+00 TO 111+00

VERTICAL DATUM
NGVD 1929

SHEET NO.
66



DATE	DESCRIPTION	DATE

FDOT FPID #	445308-1-58-01
PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	

SURVEYED	ZNS	DATE
DESIGNED		01/2019
DRAWN	MCG	01/2019
CHECKED		

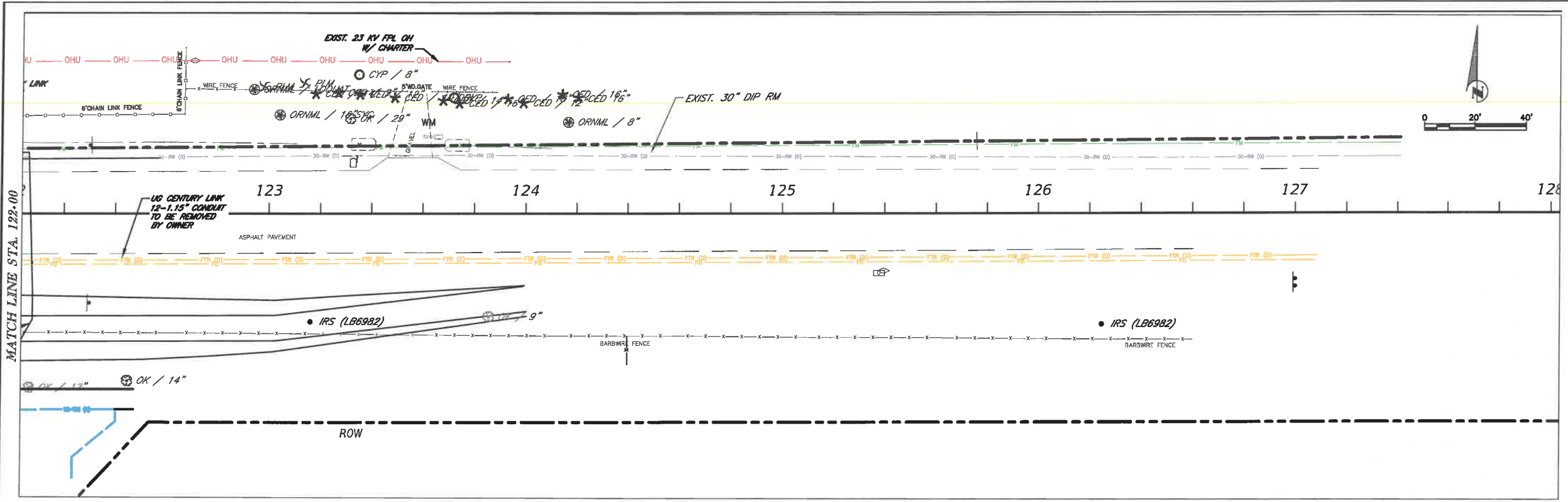
EXISTING UTILITY LOCATIONS PROVIDED BY OUTSIDE UTILITY COMPANIES AND MANATEE COUNTY UTILITIES DEPARTMENT. THESE LOCATIONS ARE NOT EXACT. CONTRACTOR IS RESPONSIBLE TO LOCATE AND VERIFY ALL EXISTING UTILITIES.




PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS
UTILITY ADJUSTMENTS
STA. 111+00 TO 122+00

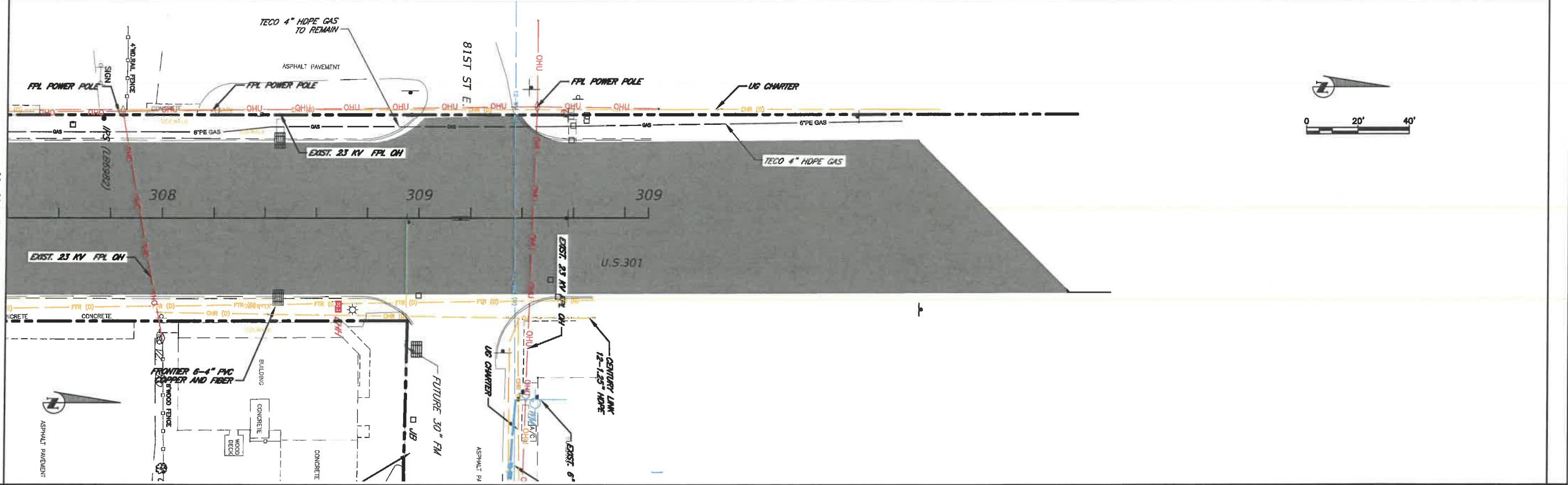
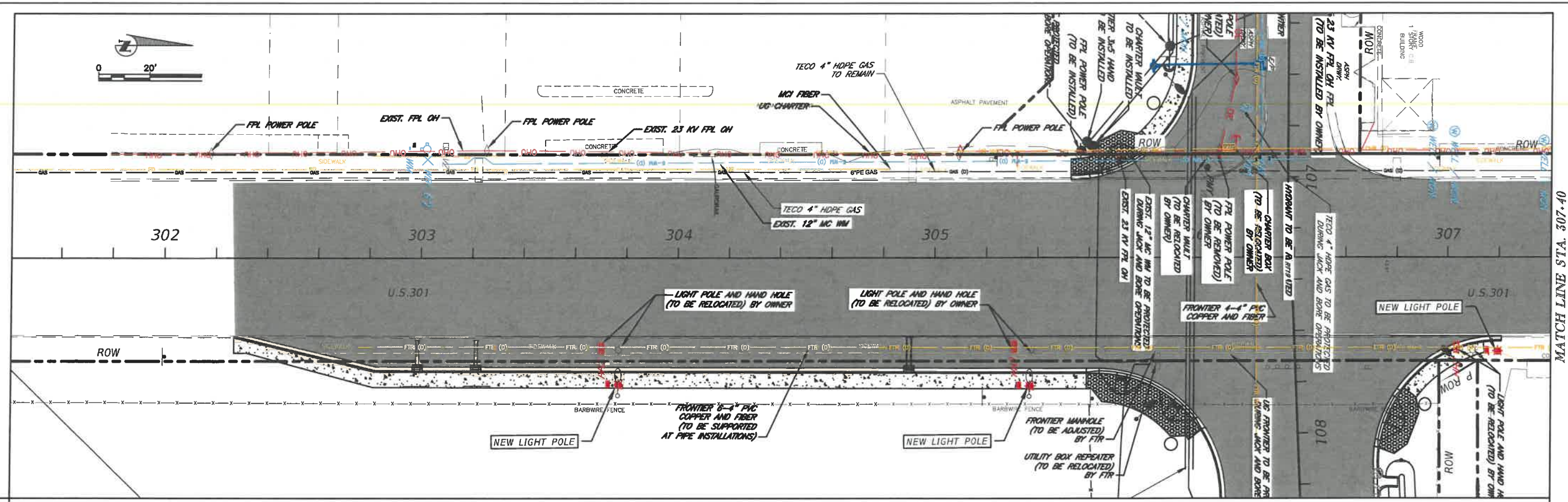
VERTICAL DATUM
NGVD 1929
SHEET NO.
67



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DATE	DESCRIPTION	DATE	FDOT FPID #	445308-1-58-01	EXISTING UTILITY LOCATIONS PROVIDED BY OUTSIDE UTILITY COMPANIES AND MANATEE COUNTY UTILITIES DEPARTMENT. THESE LOCATIONS ARE NOT EXACT. CONTRACTOR IS RESPONSIBLE TO LOCATE AND VERIFY ALL EXISTING UTILITIES.			 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	ERIE RD. AND SR 62 IMPROVEMENTS UTILITY ADJUSTMENTS STA. 122+00 TO 127+00		VERTICAL DATUM			
			PROJECT #	850-6094060							SURVEYED	ZNS	01/2019	NGVD 1929
			SURVEY #	N/A							DESIGNED			
			SEC./TWN./RGE	35/33/19							DRAWN	MCG	01/2019	
			SCALE								CHECKED			
										SHEET NO.				
										68				

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 MATCH LINE STA. 307+40



DATE	DESCRIPTION	DATE	FDOT FPID #	PROJECT #	SURVEYED	ZNS	01/2019
			445308-1-58-01	850-6094060	DESIGNED		
				N/A	DRAWN	MCG	01/2019
				35/33/19	CHECKED		

EXISTING UTILITY LOCATIONS PROVIDED BY OUTSIDE UTILITY COMPANIES AND MANATEE COUNTY UTILITIES DEPARTMENT. THESE LOCATIONS ARE NOT EXACT. CONTRACTOR IS RESPONSIBLE TO LOCATE AND VERIFY ALL EXISTING UTILITIES.

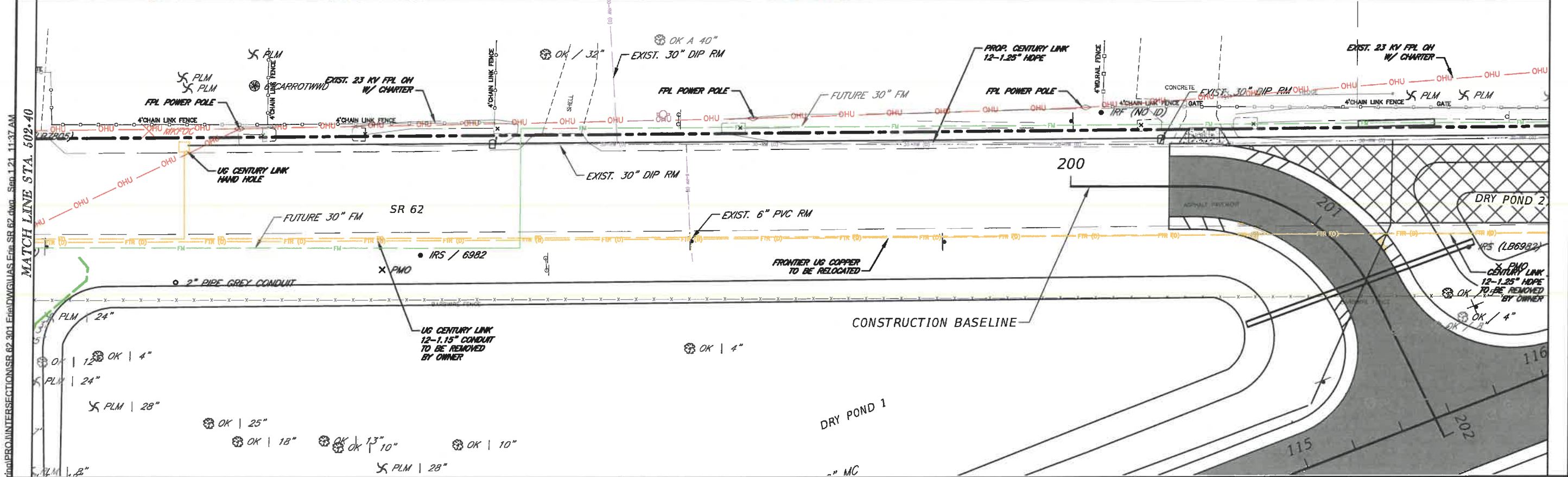
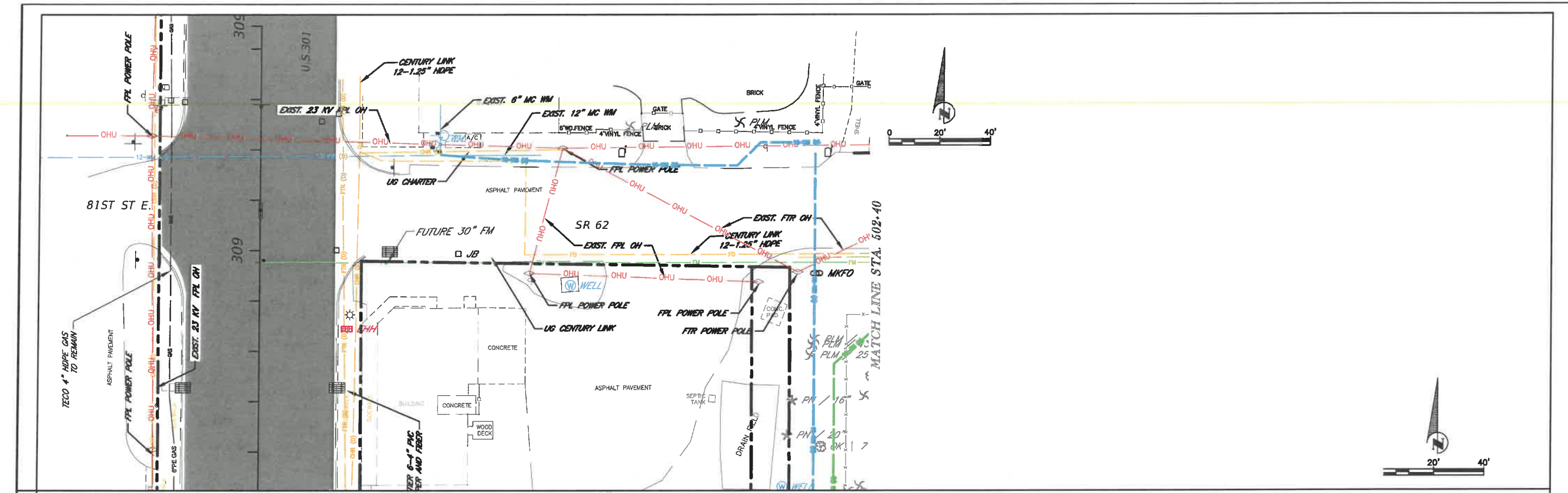
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208


ERIE RD. AND SR 62 IMPROVEMENTS

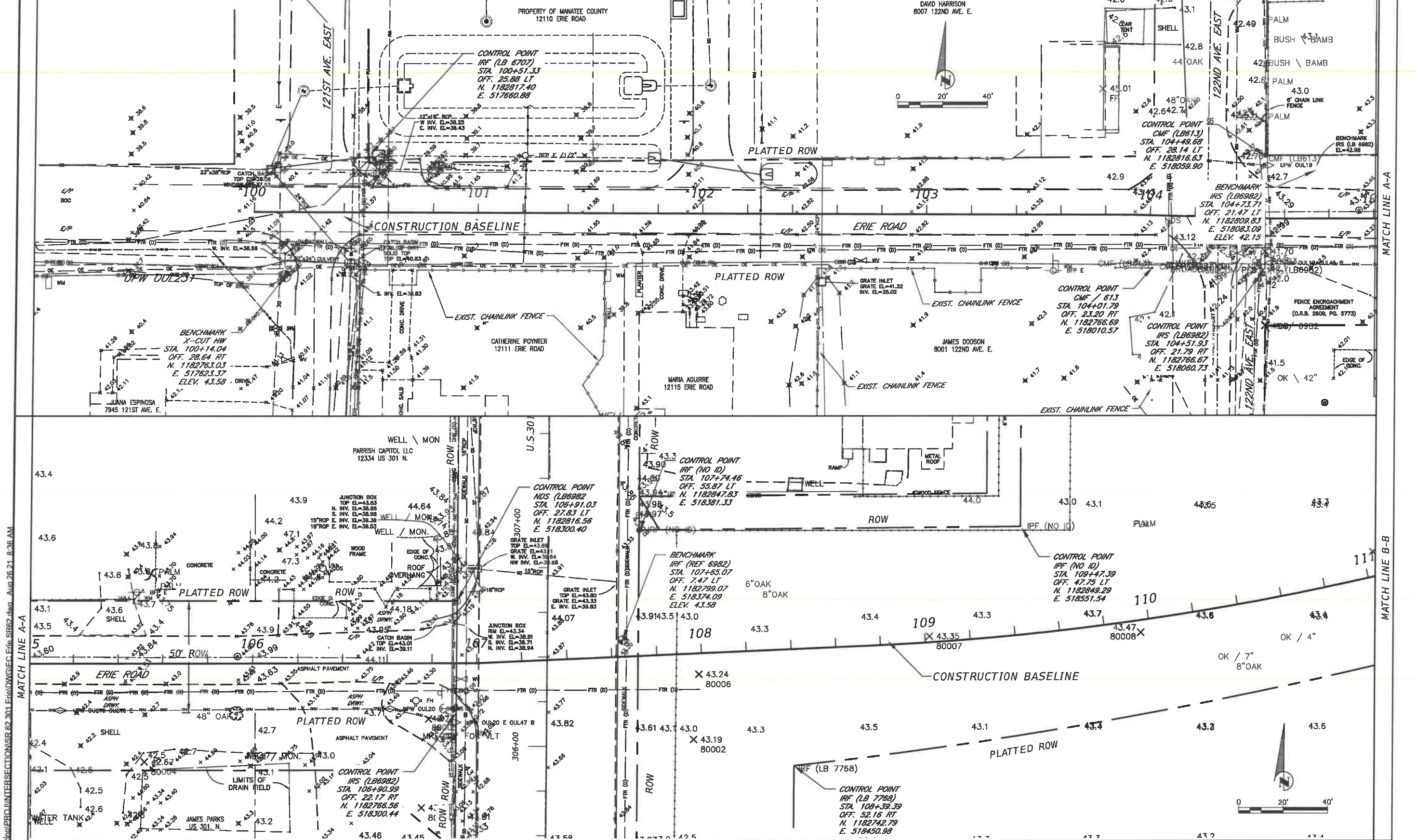
UTILITY ADJUSTMENTS

STA. 301+40 TO 309+00

VERTICAL DATUM NGVD 1929	SHEET NO. 69
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DATE	DESCRIPTION	DATE	PROJECT #	FDOT FPID #	SURVEYED	ZNS	01/2019	EXISTING UTILITY LOCATIONS PROVIDED BY OUTSIDE UTILITY COMPANIES AND MANATEE COUNTY UTILITIES DEPARTMENT. THESE LOCATIONS ARE NOT EXACT. CONTRACTOR IS RESPONSIBLE TO LOCATE AND VERIFY ALL EXISTING UTILITIES.	 Manatee County PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	ERIE RD. AND SR 62 IMPROVEMENTS		VERTICAL DATUM	
			850-6094060	445308-1-58-01							NGVD 1929		
			N/A		DESIGNED								
			35/33/19		DRAWN	MCG	01/2019					UTILITY ADJUSTMENTS	SHEET NO.
					CHECKED						STA. 500.00 TO 508.40	70	



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MATCH LINE A-A

MATCH LINE A-A

MATCH LINE B-B

DATE	DESCRIPTION	DATE	FDOT JPA #	445308-1-58-01
			PROJECT #	850-6094060
			SURVEY #	N/A
			SEC./TWN./RGE	35/33/19
			SCALE	CHECKED

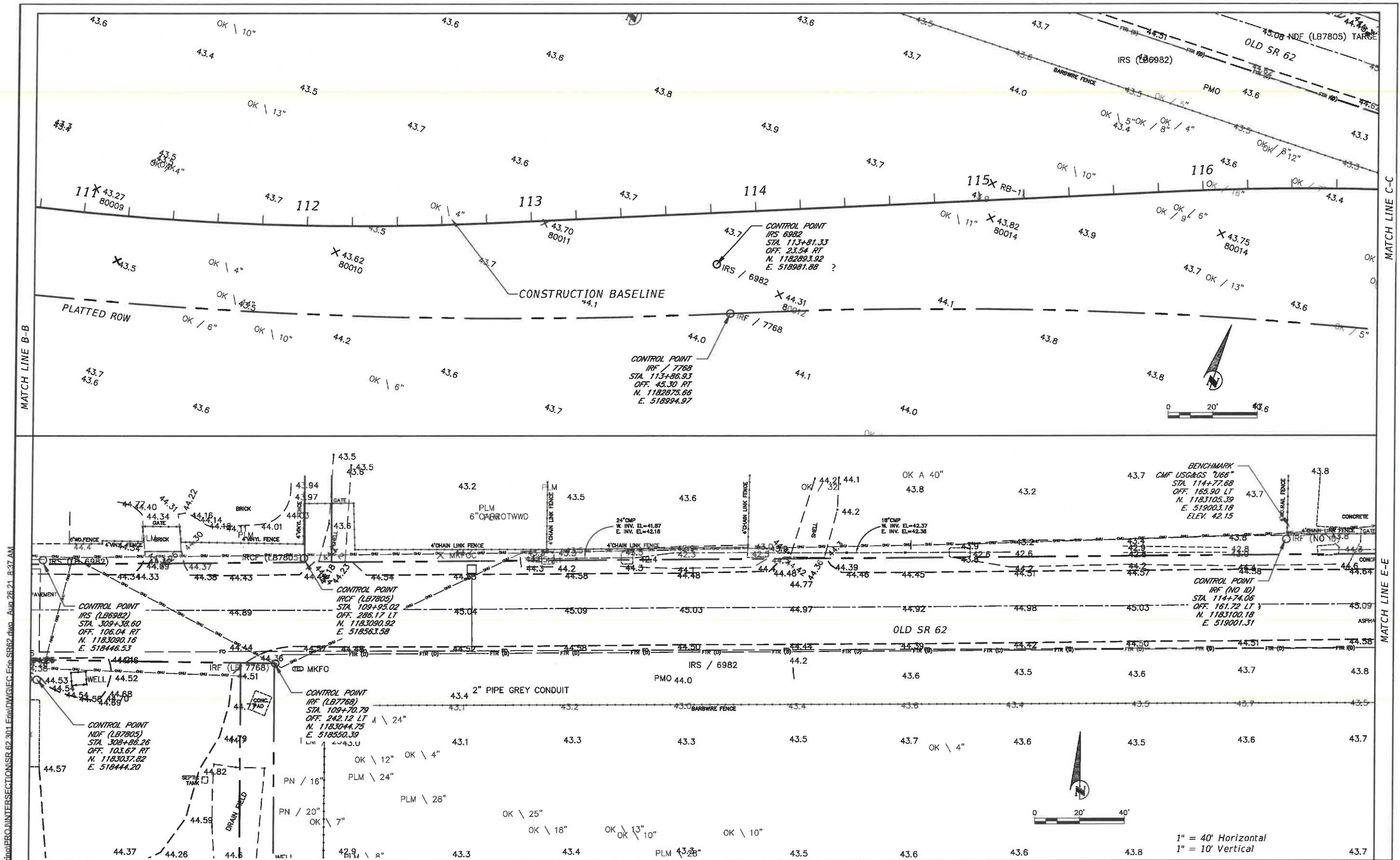
INFORMATION PROVIDED ON THIS SHEET
 WAS PROVIDED BY ZNS TOPOGRAPHICAL
 SURVEY, DATED JANUARY 18, 2019,
 SIGNED AND SEALED BY
 JAMES M. GATCH JR, PSM, LICENSE #4295




PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

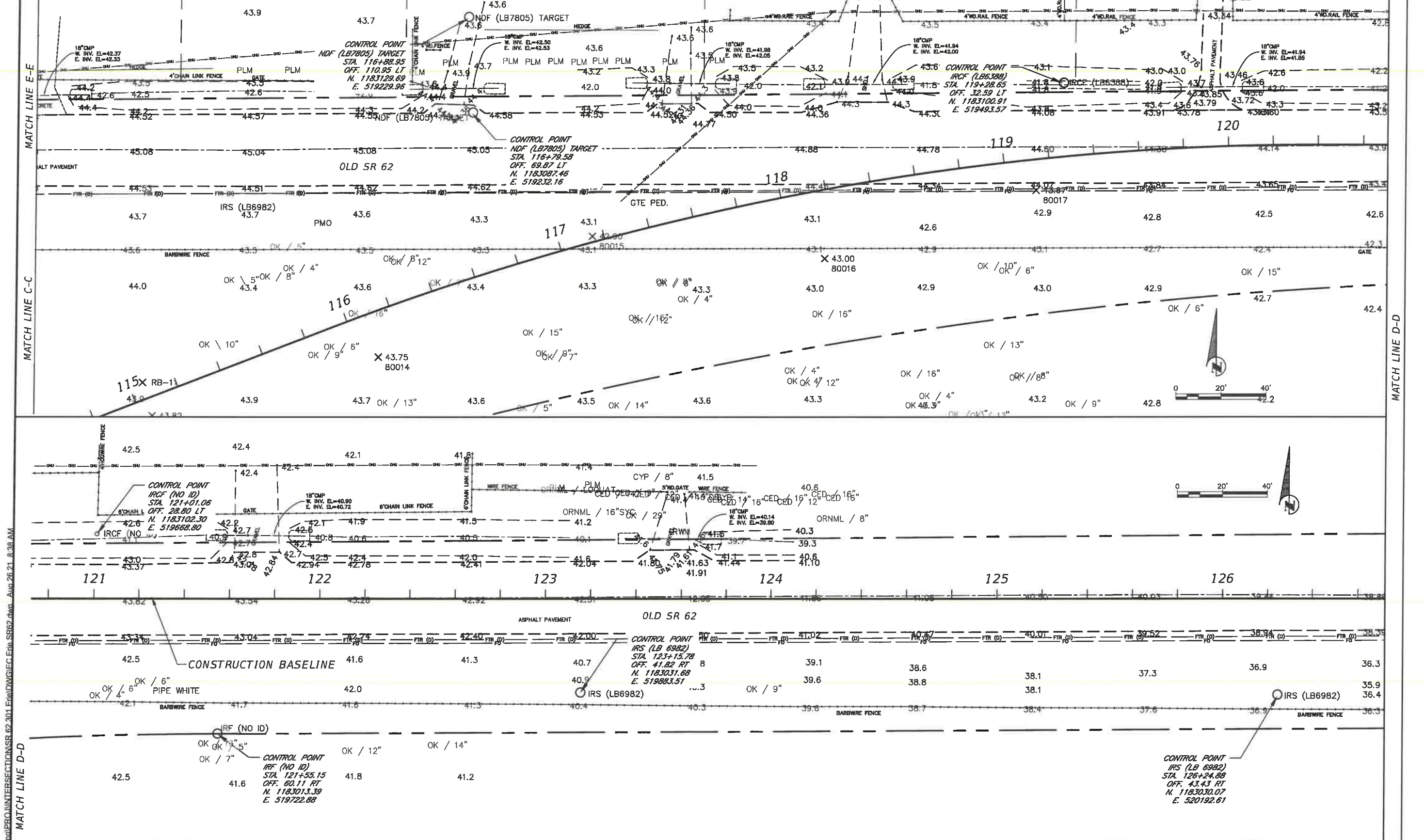
ERIE RD. AND SR 62 IMPROVEMENTS
EXISTING CONDITIONS

VERTICAL DATUM
 NGVD 1929
 SHEET NO.
 71



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DATE	DESCRIPTION	DATE	FDOT FPID #	445308-1-58-01				INFORMATION PROVIDED ON THIS SHEET WAS PROVIDED BY ZNS TOPOGRAPHICAL SURVEY, DATED JANUARY 18, 2019, SIGNED AND SEALED BY JAMES M. GATCH JR, PSM, LICENSE #4295	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	ERIE RD. AND SR 62 IMPROVEMENTS EXISTING CONDITIONS	SHEET NO.
			PROJECT #	850-6094060	SURVEYED	ZNS	01/2019				72
			SURVEY #	N/A							
			SEC./TWN./RGE	35/33/19							
			SCALE								



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DATE	DESCRIPTION	DATE

FDOT FPID #	445308-1-58-01
PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	CHECKED

INFORMATION PROVIDED ON THIS SHEET
 WAS PROVIDED BY ZNS TOPOGRAPHICAL
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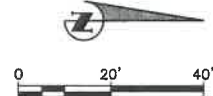
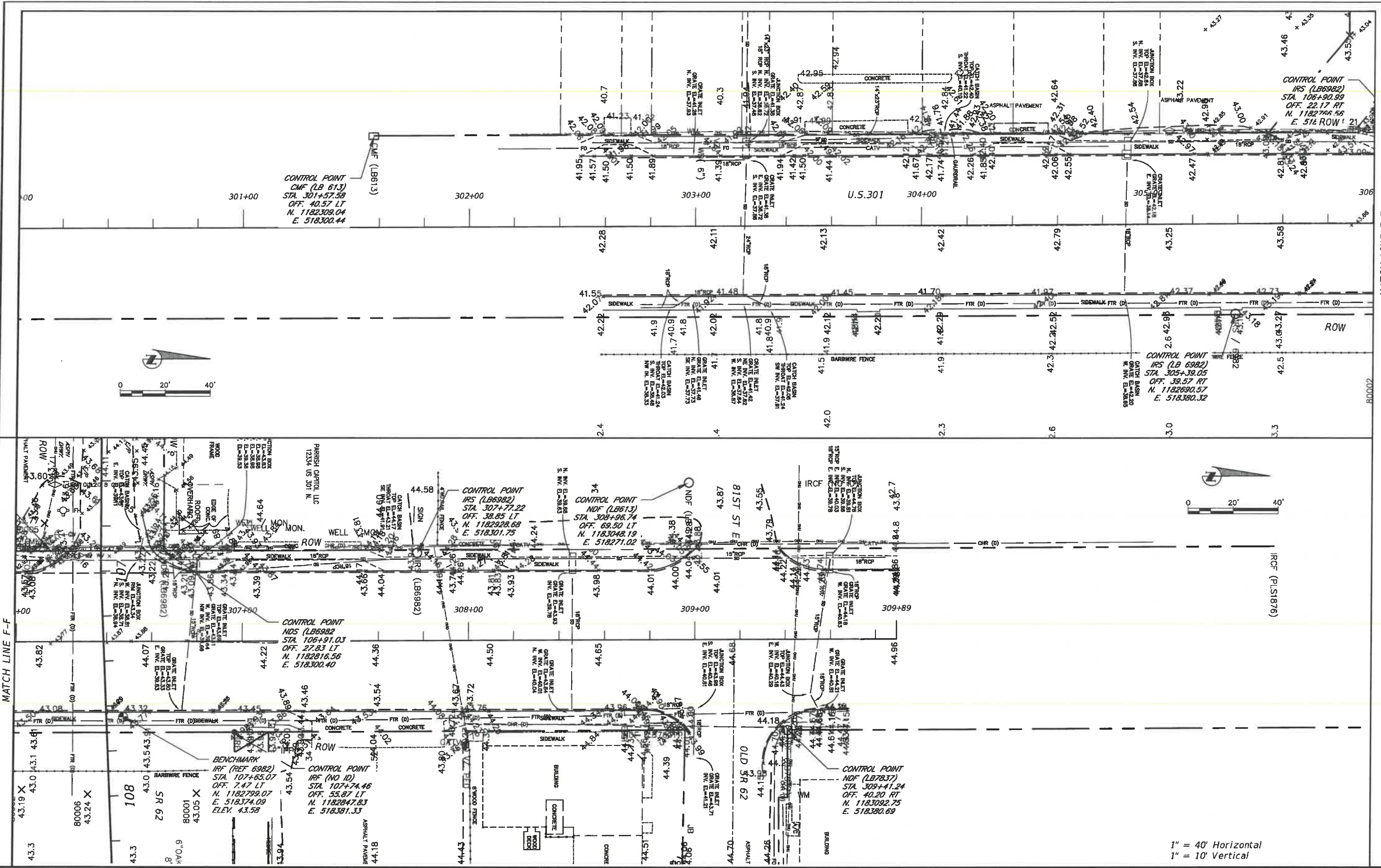
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS


EXISTING CONDITIONS

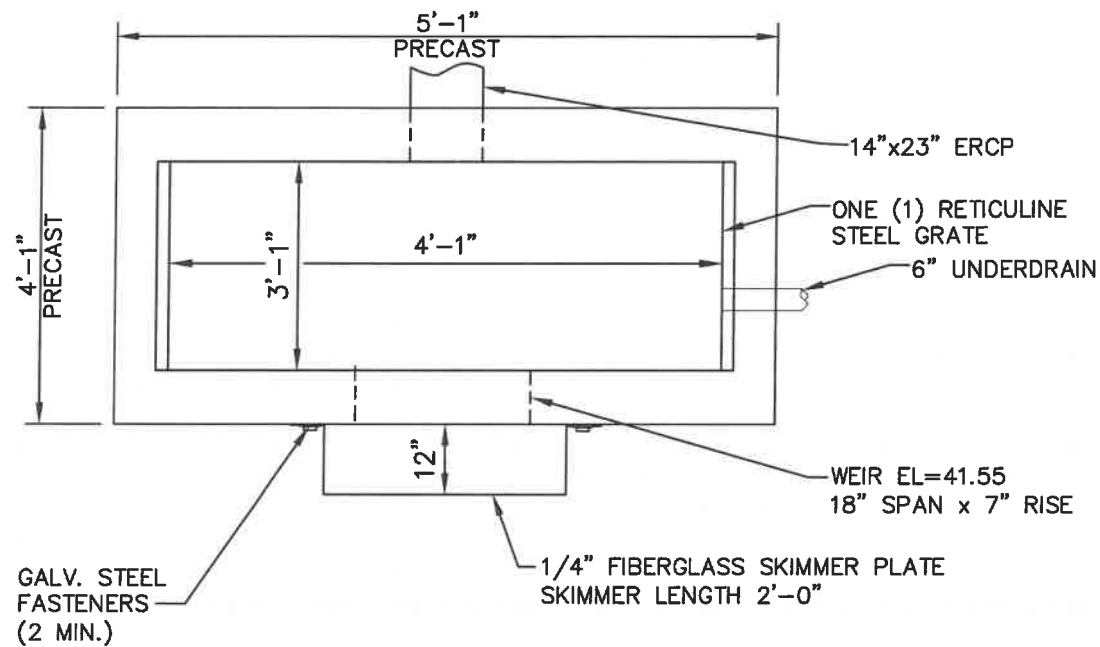
SHEET NO.
73

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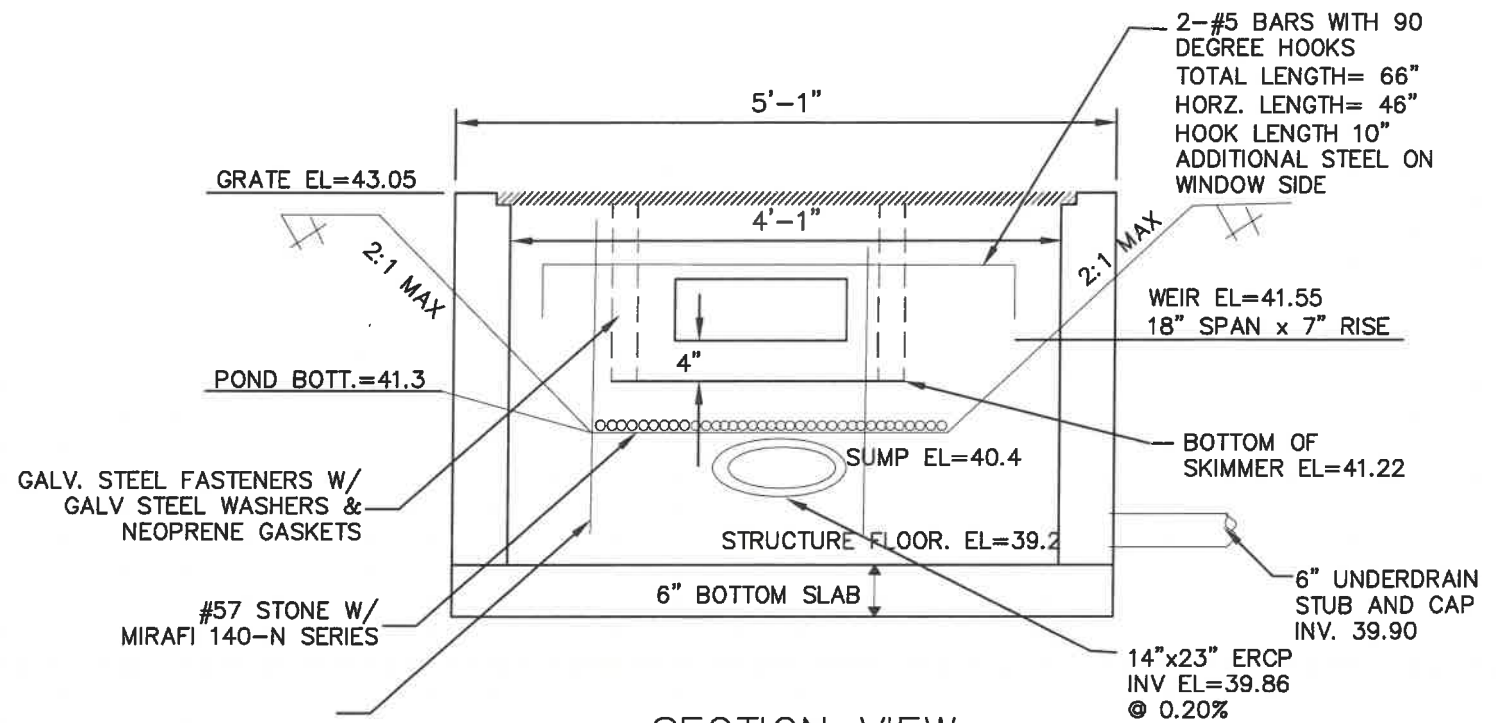


1" = 40' Horizontal
1" = 10' Vertical

DATE	DESCRIPTION	DATE	FDOT FPID #	PROJECT #	SURVEYED	ZNS	01/2019	INFORMATION PROVIDED ON THIS SHEET WAS PROVIDED BY ZNS TOPOGRAPHICAL SURVEY, DATED JANUARY 18, 2019, SIGNED AND SEALED BY JAMES M. GATCH JR, PSM, LICENSE #4295	 PUBLIC WORKS DEPARTMENT ENGINEERING SERVICES 1022 26th Avenue East, Bradenton, FL 34208	ERIE RD. AND SR 62 IMPROVEMENTS		SHEET NO. 74
			445308-1-58-01	850-6094060						EXISTING CONDITIONS		
				N/A	DESIGNED							
				35/33/19	DRAWN							
					CHECKED							



PLAN VIEW



SECTION VIEW

2-#4 BARS. , 2-ON EACH SIDE
LENGTH= 42"
ADDITIONAL STEEL ON WINDOW SIDE

CONTROL STRUCTURE (CS-1)
TYPE "D" FDOT INDEX 232/MODIFIED

REINFORCEMENT PER FDOT INDEX
425-052. SEE SECTION VIEW ABOVE FOR EXTRA STEEL
REQUIRED FOR THE WINDOW SIDE OF STRUCTURE

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DATE	DESCRIPTION	DATE	FDOT FPID #				
			445308-1-58-01				
			PROJECT #	850-6094060	SURVEYED	ZNS	01/2019
			SURVEY #	N/A	DESIGNED	MCG	01/2019
			SEC./TWN./RGE	35/33/19	DRAWN	MCG	01/2019
			SCALE		CHECKED	SF	08/2021

YANRONG FU, P.E.
FLORIDA P.E. # 69268

[Signature]
10/27/2021
SIGNATURE AND DATE



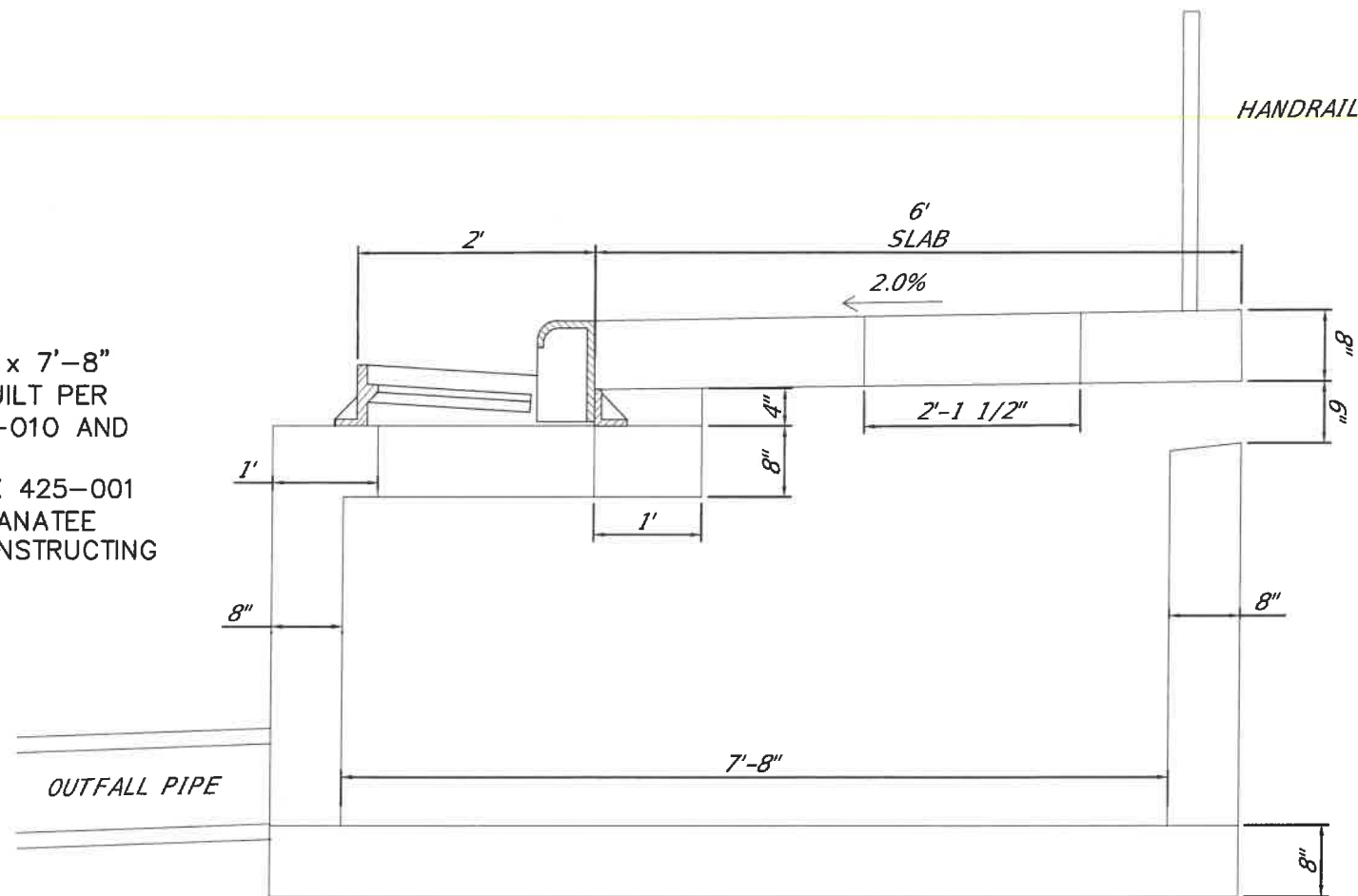
PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS
CONTROL STRUCTURE DETAIL SHEET

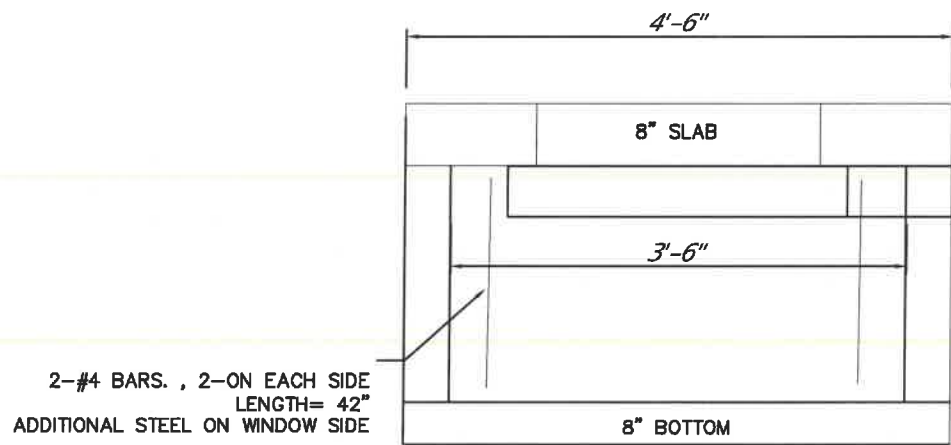
SHEET NO.
75

NOTES:

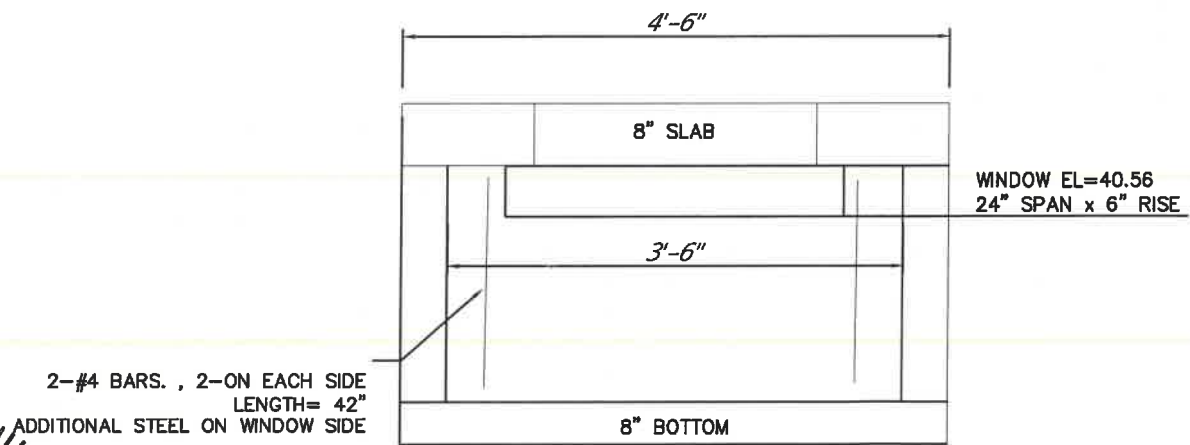
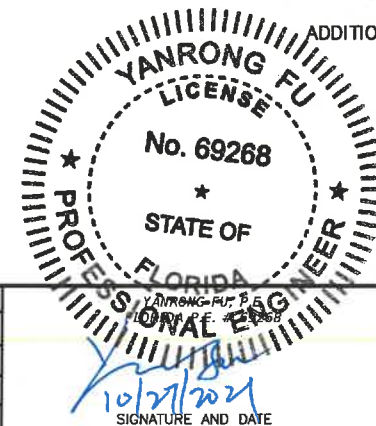
- 1) INSIDE DIMENSION OF STRUCTURE 3'-6" x 7'-8"
- 2) STRUCTURE, SLAB AND STEEL TO BE BUILT PER FDOT INDEX'S 425-001, 425-024, 425-010 AND 425-060
- 3) INSTALL 2' TYPE 3 MANHOLE PER INDEX 425-001
- 4) SHOP DRAWINGS TO BE PROVIDED TO MANATEE COUNTY PROJECT MANAGER BEFORE CONSTRUCTING STRUCTURE.



STRUCTURE S-7 AND S-8 (MODIFIED S-9/BACK OF SIDEWALK INLET)



STRUCTURE S-7
SECTION VIEW OF WINDOW
SIDE




STRUCTURE S-8
SECTION VIEW OF WINDOW
SIDE

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DATE	DESCRIPTION	DATE	DATE	DATE

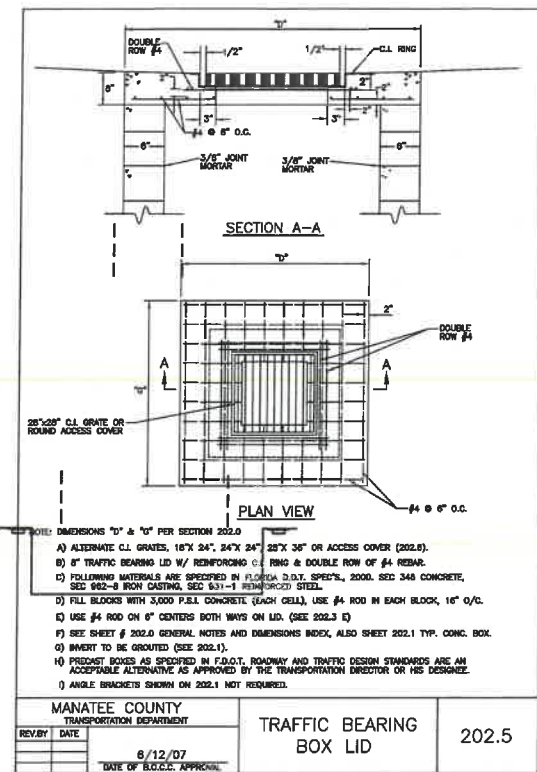
FDOT FPID #	445308-1-58-01
PROJECT #	850-6094060
SURVEY #	N/A
SEC./TWN./RGE	35/33/19
SCALE	
SURVEYED	ZNS 01/2019
DESIGNED	MCG 01/2019
DRAWN	MCG 01/2019
CHECKED	SF 08/2021


PUBLIC WORKS DEPARTMENT
ENGINEERING SERVICES
 1022 26th Avenue East, Bradenton, FL 34208

ERIE RD. AND SR 62 IMPROVEMENTS
STRUCTURE MODIFICATION DETAIL SHEET

SHEET NO.
76

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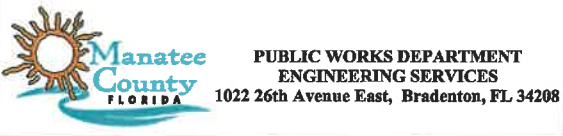
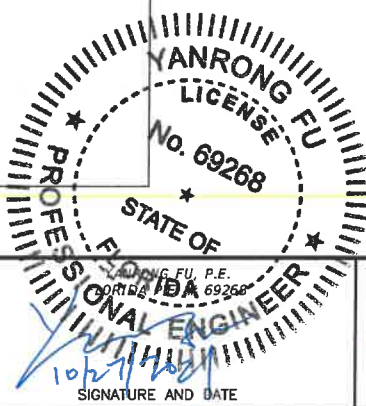
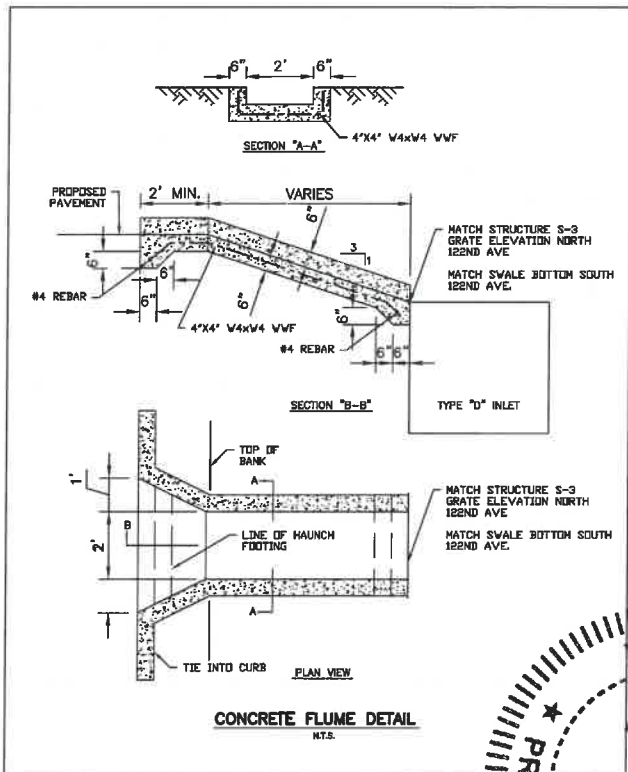
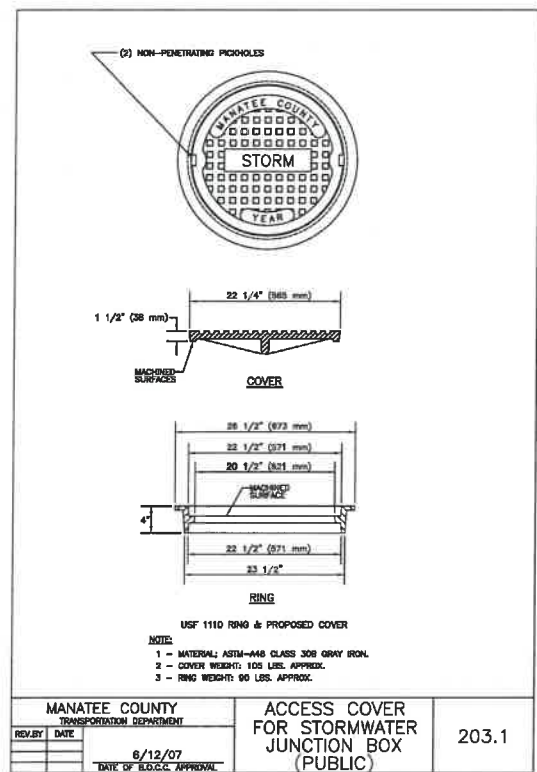
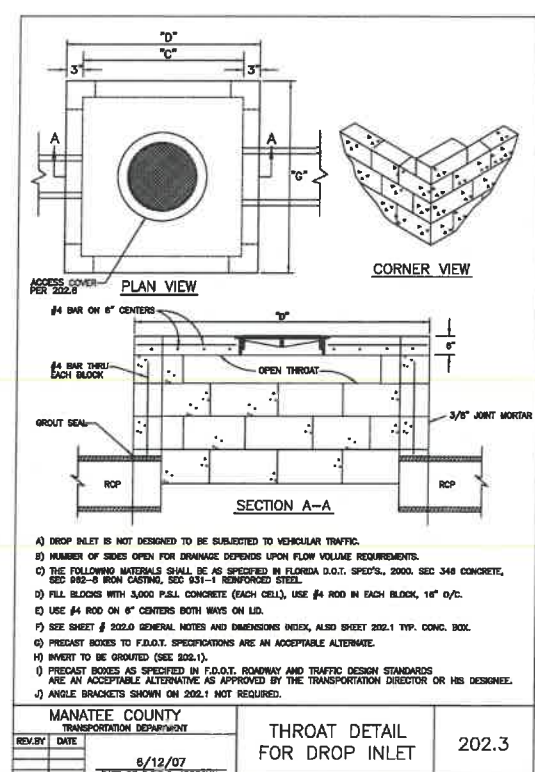
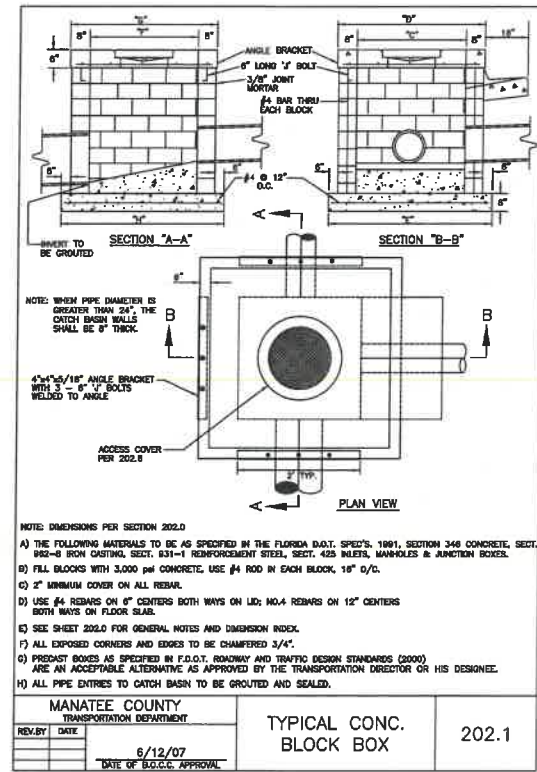
GENERAL NOTES

- ALL REFERENCED STANDARDS SHALL BE LATEST REVISION.
- CONCRETE SHALL BE CLASS "1" AS SPECIFIED IN SECTION 345 OF F.D.O.T. SPECIFICATIONS
- SEE SECTION 426-2.2 "MORTAR" OF FLORIDA D.O.T. SPECIFICATIONS.
- IRON CASTING SHALL BE AS SPECIFIED IN SECTION 902-8 OF F.D.O.T. SPECIFICATIONS. SEE SECTION 426-3.
- ALL REINFORCEMENT STEEL SHALL BE AS SPECIFIED IN SECTIONS 415 & 631.1 OF F.D.O.T. SPECIFICATIONS.
- SEE FLORIDA D.O.T. SPECIFICATIONS FOR GRATING.
- SEE FLORIDA D.O.T. SPECIFICATIONS FOR SECTION 125 "EXCAVATION FOR STRUCTURES."
- PRECAST TOP AND BOTTOM TO BE F.D.O.T. STANDARDS WITH MINIMUM TRAFFIC BEARING 8" THICKNESS.
- ALL STORMWATER PIPE SHALL BE INSTALLED BEHIND THE CURB OR EDGE OF PAVEMENT AND WITHIN THE RIGHT OF WAY AND WITHIN THE DRAINAGE EASEMENTS.
- THE FOLLOWING IS THE DRAINAGE STRUCTURE WALL MINIMUM THICKNESS:

PIPE SIZE	TYPE	DIMENSION INDEX						
		"C"	"D"	"E"	"F"	"G"	"H"	
15"	RCP	2'8"	4'	5'	4'	5'4"	6'4"	
12"x18"	RCP	"	"	"	"	"	"	
18"	RCP	"	"	"	"	"	"	
14"x23"	RCP	"	"	"	"	"	"	
24"	RCP	3'4"	4'8"	5'8"	"	"	"	
19"x30"	RCP	4'	5'4"	6'4"	"	"	"	
30"	RCP	"	"	"	"	"	"	
24"x38"	RCP	5'	6'4"	7'4"	"	"	"	
36"	RCP	5'	6'4"	"	"	"	"	
68"	RCP	8'5"	9'9"	10'9"	4'8"	6'0"	7'0"	

NOTE: FOR DRAINAGE STRUCTURES WITH PIPE DIAMETERS UP TO AND INCLUDING 24", 8" PRECAST WALLS ARE ACCEPTABLE FOR TRAFFIC BEARING.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		DRAINAGE CONTROL SHEET	202.0
REV. BY	DATE		
	6/12/07		
	DATE OF B.O.C.C. APPROVAL		



ERIE RD. AND SR 62 IMPROVEMENTS

MANATEE COUNTY DETAIL SHEET

SHEET NO.
77

DATE	DESCRIPTION	DATE	PROJECT #	FDOT FPID #	SURVEYED	ZNS
			850-6094060	445308-1-58-01	01/2019	
			N/A		DESIGNED	MCG
			35/33/19		DRAWN	MCG
					CHECKED	SF
						08/2021