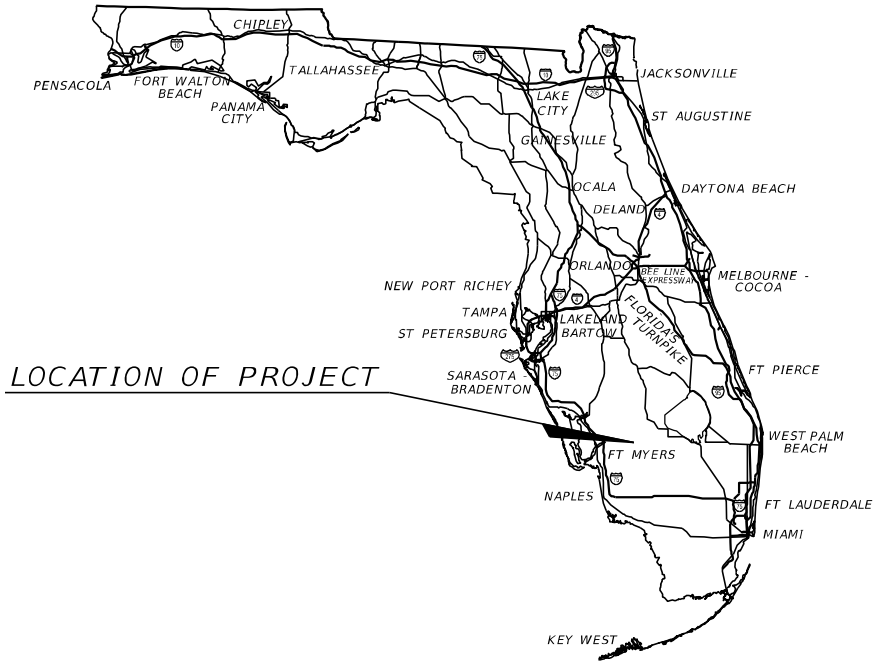


CONTRACT PLANS COMPONENTS

ROADWAY PLANS
STRUCTURAL PLANS

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

LEE COUNTY
BELL BOULEVARD SIDEWALK
FROM SUNRISE BOULEVARD TO JOEL BLVD
FINANCIAL PROJECT ID: 441901-1-58-01
(FEDERAL FUNDS)



INDEX OF ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2, (2A) Δ	SIGNATURE SHEET
3	SUMMARY OF PAY ITEMS
4	DRAINAGE MAP
5	TYPICAL SECTION
6	TYPICAL SECTION DETAILS
7 THRU 13	SUMMARY OF QUANTITIES
14	SUMMARY OF DRAINAGE STRUCTURES
15	GENERAL NOTES
16 THRU 24	ROADWAY PLAN-PROFILE
25 THRU 27	DRAINAGE STRUCTURES
28 THRU 58	CROSS SECTIONS
59 THRU 60	STORMWATER POLLUTION PREVENTATION PLAN
61 THRU 69	EROSION CONTROL PLAN
70	TEMPORARY TRAFFIC CONTROL PLANS
71 THRU 79	UTILITY ADJUSTMENTS
CTL-1*	PROJECT CONTROL

* This sheet is included in the Index of Roadway Plans only to indicate that they are part of the Roadway Plans. This sheet is contained in a separate digitally signed and sealed document.

END PEDESTRIAN BRIDGE
STA. 56+72.15
BEGIN PEDESTRIAN BRIDGE
STA. 55+52.15

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2024-25 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

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

GOVERNING STANDARD SPECIFICATIONS:

LAP DIVISION I SPECIFICATIONS (CLASS A,B,C,D) OF THE LEE COUNTY DEPARTMENT OF TRANSPORTATION AND DIVISION II & III OF THE FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2024-25 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWING WEBSITE:
<https://www.fdot.gov/programmanagement/implemented/lap/default.shtm>

REVISIONS:

FINANCIAL PROJECT ID 441901-1-58-01
Δ ROADWAY SHEETS 1, 3, 7, 14, 15, 24, 26, 69, 79 (REVISED 5/13/25)
ROADWAY SHEET 2A (ADDED 5/13/25)

KEY SHEET REVISIONS	
DATE	DESCRIPTION
5/13/25	Δ ADDED SHEETS 2A TO INDEX



LOCATION MAP
BEGIN PROJECT
STA. 12+48.17
END PROJECT
STA. 59+38.79



ROADWAY PLANS
ENGINEER OF RECORD:

MAJHARUL ALAM, P.E.
P.E. LICENSE NUMBER 61600
PROPEL ENGINEERING, LLC
2711 VISTA PARKWAY, SUITE B-7
WEST PALM BEACH, FL 33411
CONTRACT NO.: CAA44
VENDOR NO.: F463316950

LEE COUNTY PROJECT MANAGER:

KEITH RIDDLE, CGC

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PROPEL ENGINEERING, LLC.
2711 N VISTA PARKWAY, SUITE B-7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

LEE COUNTY	
ROAD NO.	FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01

KEY SHEET	
SHEET NO.	
1	

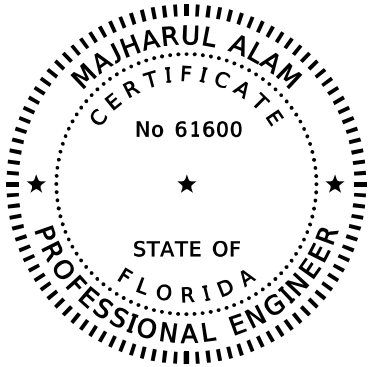
5/14/2025 1:39:58 PM Isa Hammadu C:\Worksets\FDOT\44771715201\roadway\KEYSRD01.dgn

Isa Hammadu

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AND SEALED BY

ON THE DATE ADJACENT TO THE SEAL

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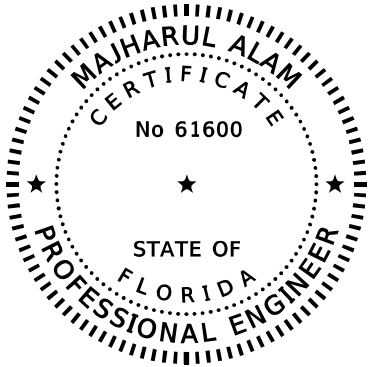
PROPEL ENGINEERING, LLC
2711 N VISTA PARKWAY, SUITE B7
WEST PALM BEACH, FL 33411
MAJHARUL ALAM, P.E. NO. 61600

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

GENERAL SHEETS:

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
3	SUMMARY OF PAY ITEMS
4	DRAINAGE MAP
5	TYPICAL SECTION
6	TYPICAL SECTION DETAILS
7 THRU 13	SUMMARY OF QUANTITIES
14	SUMMARY OF DRAINAGE STRUCTURES
15	GENERAL NOTES
16 THRU 24	ROADWAY PLAN-PROFILE
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59 THRU 60	STORMWATER POLLUTION PREVENTATION PLAN
61 THRU 69	EROSION CONTROL PLAN
70	TEMPORARY TRAFFIC CONTROL PLANS
71 THRU 79	UTILITY ADJUSTMENTS

REVISIONS				PROPEL PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		
					BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		2



THIS ITEM HAS BEEN DIGITALLY SIGNED
AND SEALED BY

Majharul Alam

Digitally signed by Majharul
Alam
Date: 2025.05.22 08:08:59 -04'00'

ON THE DATE ADJACENT TO THE SEAL

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PROPEL ENGINEERING, LLC
2711 N VISTA PARKWAY, SUITE B7
WEST PALM BEACH, FL 33411
MAJHARUL ALAM, P.E. NO. 61600

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

GENERAL SHEETS:

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2A	SIGNATURE SHEET
3	SUMMARY OF PAY ITEMS
7	SUMMARY OF QUANTITIES
14	SUMMARY OF DRAINAGE STRUCTURES
15	GENERAL NOTES
24	ROADWAY PLAN-PROFILE
26	DRAINAGE STRUCTURES
69	EROSION CONTROL PLAN
79	UTILITY ADJUSTMENTS

REVISIONS				PROPEL PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		SIGNATURE SHEET	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		2A
5/13/25	1 ADDED SHEET				BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		

BELL BOULEVARD SIDEWALK FROM SUNRISE BOULEVARD TO JOEL BOULEVARD						
FDOT PAY ITEM NUMBER		ITEM DESCRIPTION			UNITS	APPROX. QUANTITY
101-1		MOBILIZATION			LS	1.00
102-1		MAINTENANCE OF TRAFFIC			LS	1.00
104-10-3		SEDIMENT BARRIER			LF	4,376.00
104-11		FLOATING TURBIDITY BARRIER			LF	90.00
104-18		INLET PROTECTION SYSTEM			EA	981
107-1		LITTER REMOVAL			AC	65.85
107-2		MOWING			AC	62.78
108-1		MONITORING EXISTING STRUCTURES - INSPECTION AND SETTLEMENT MONITORING			LS	1.00
108-2		MONITORING EXISTING STRUCTURES - VIBRATION MONITORING			LS	1.00
110-1-1		CLEARING AND GRUBBING			LS/AC	2.38
110-4-10		REMOVAL OF EXSITING CONCRETE			SY	147.00
110-7-1		MAILBOX, F&I SINGLE			EA	3.00
120-1		REGULAR EXCAVATION			CY	826.30
120-6		EMBANKMENT			CY	139.40
327-70-1		MILL EXISTING ASPHALT PAVEMENT, 1" AVG DEPTH			SY	2,670.00
334-1-53		SUPERPAVE ASPHALT CONCRETE, TRAFFIC C, PG 76-22			TN	146.90
400-0-11		CONCRETE CLASS NS, GRAVITY WALL INDEX 400-011			CY	79.90
400-1-30		CLASS I CONCRETE, SEAL			CY	8.60
400-2-5		CLASS II CONCRETE, BRIDGE SUBSTRUCTURE			CY	31.80
400-2-10		CLASS II CONCRETE, APPROACH SLABS			CY	5.20
415-1-1		REINFORCING STEEL - ROADWAY			LB	1,245.00
415-1-5		REINFORCING STEEL - BRIDGE SUBSTRUCTURE			LB	6,194.00
415-1-9		REINFORCING STEEL - APPROACH SLABS			LB	840.00
425-1511		INLETS, DT BOT, TYPE B,<10'			EA	31
425-1521		INLETS, DT BOT, TYPE C,<10'			EA	2.00
425-1561		INLETS, DT BOT, TYPE F,<10'			EA	2.00
425-2-41		MANHOLE (TYPE P-7)			EA	1.00
430-94-1		DESILTING PIPE, 0-24"			LF	262.00
430-94-2		DESILTING PIPE, 25-36"			LF	123102
430-175-118		PIPE CULVERT, ROUND, 18"S/CD RCP			LF	50.00
430-175-130		PIPE CULVERT, ROUND, 30"S/CD RCP			LF	94123
460-7		PREFABRICATED STEEL PEDESTRIAN BRIDGE			SF	960.00
515-2-311		PEDESTRIAN / BICYCLE RAILING, ALUMINIUM ONLY, 42" TYPE 1			LF	278.00
520-1-10		CONCRTE CURB & GUTTER, TYPE F			LF	101.00
522-2		CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK			SY	3,011.00
527-2		DETECTABLE WARNINGS			SF	303.00
570-1-2		PERFORMANCE TURF, SOD			SY	8,783.00
580-12-35		ROOT BARRIER - 24"			LF	807.00
654-2-28		MIDBLOCK CROSSWALK: REC RAPID FLASHING BEACON, FURNISH/INSTALL-SOLAR, SIGN ASSEMBLY-BACK-BACK ACCESSIBLE DETECTOR			AS	2.00
700-1111		SINGLE COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, LESS THAN 12 SF			EA	8.00
700-1500		SINGLE COLUMN GROUND SIGN ASSEMBLY, RELOCATE			EA	6.00
700-1600		SINGLE COLUMN GROUND SIGN ASSEMBLY, REMOVE			EA	4.00
710-90		PAINTED PAVEMENT MARKINGS, FINAL SURFACE			LS	1.00
711-11123		THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT			LF	1,026.00
711-11125		THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK			LF	212.00
711-11170		THERMOPLASTIC, STANDARD, WHITE, ARROW			EA	1.00
711-14125		THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK			LF	100.00
711-16101		THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"			GM	0.069
711-16201		THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"			GM	0.084

PAY ITEM NOTES:

0430-175-XXX

ALL INCURRED COST ASSOCIATED WITH THE SUB-BASE, BASE, & ASPHALT SHALL BE INCLUDED IN THE PRICE FOR PIPE CULVERT.

0520-1-10

COST OF OPEN FLUME IS INCLUDED IN THE COST OF CONCRETE CURB AND GUTTER, TYPE F.

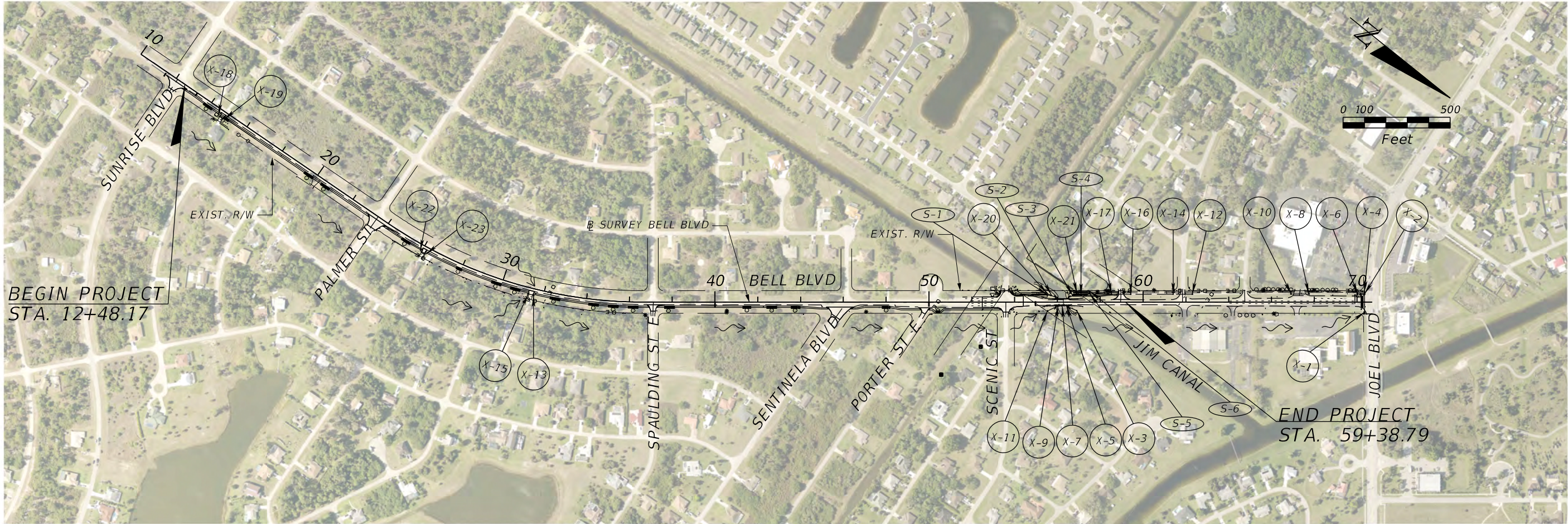
REVISIONS				PROPEL PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		SUMMARY OF PAY ITEMS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		3
5/13/25	1. REVISED QUANTITIES FOR PAY ITEMS 104 18, 425 1511, 430 94 2, AND 430 175 130				BELL BOULEVARD SIDEWALK. SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		

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X-1

MES
INV. (E.) = 20.90'
(19"X30" ELLIPTICAL CMP)

X-2

DRAINAGE INLET
TOP = 23.67'
INV. (E.) = 20.85'
(19"X30" ELLIPTICAL CMP)
INV. (S.) = 21.07'
(12"X18" ELLIPTICAL RCP)
INV. (W.) = 21.02'
(19"X30" ELLIPTICAL CMP)

X-3

DRAINAGE INLET
TOP = 21.65'
INV. (S.) = 18.49' (18" RCP)

X-4

MES
INV. (W.) = 21.32'
(19"X30" ELLIPTICAL CMP)

X-5

SLOT
ELEV = 23.48'

X-6

MES
INV. (S.) = 21.11'
(12"X18" ELLIPTICAL RCP)

X-7

SLOT
ELEV = 23.66'

X-8

MES
INV. (N.) = 22.00'
(12"X18" ELLIPTICAL RCP)

X-9

SLOT
ELEV = 23.65'

X-10

MES
INV. (S.) = 21.91'
(12"X18" ELLIPTICAL RCP)

X-11

DRAINAGE INLET
TOP = 21.52'
INV. (S.) = 18.54' (18" RCP)

X-12

DRAINAGE INLET
TOP = 21.91'
INV. (S.) = 18.49' (24" CMP)

X-13

MES
INV. (N.) = 24.31'
(12"X18" ELLIPTICAL RCP)

X-14

DRAINAGE INLET
TOP = 22.02'
INV. (N.) = 18.39' (24" CMP)
INV. (S.) = 18.34' (30" CMP)

X-15

MES
INV. (S.) = 24.20'
(12"X18" ELLIPTICAL RCP)

X-16

DRAINAGE INLET
TOP = 21.78'
INV. (N.) = 18.21' (30" CMP)
INV. (S.) = 18.33' (30" CMP)

X-17

DRAINAGE INLET
TOP = 21.73'
INV. (N.) = 18.32' (30" CMP)
INV. (S.) = 18.21' (30" CMP)

X-18

MES
INV. (S.) = 25.56'
(12"X18" ELLIPTICAL RCP)

X-19

MES
INV. (N.) = 25.56'
(12"X18" ELLIPTICAL RCP)

X-20

DRAINAGE INLET
TOP = 21.47'
INV. (S.) = 18.67' (18" RCP)

X-21

DRAINAGE INLET
TOP = 21.62'
INV. (S.) = 18.48' (18" RCP)

X-22

MES
INV. (S.) = 24.43'
(12"X18" ELLIPTICAL RCP)

X-23

MES
INV. (N.) = 24.47'
(12"X18" ELLIPTICAL RCP)

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PROPEL ENGINEERING, LLC.
2711 N VISTA PARKWAY, SUITE B-7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

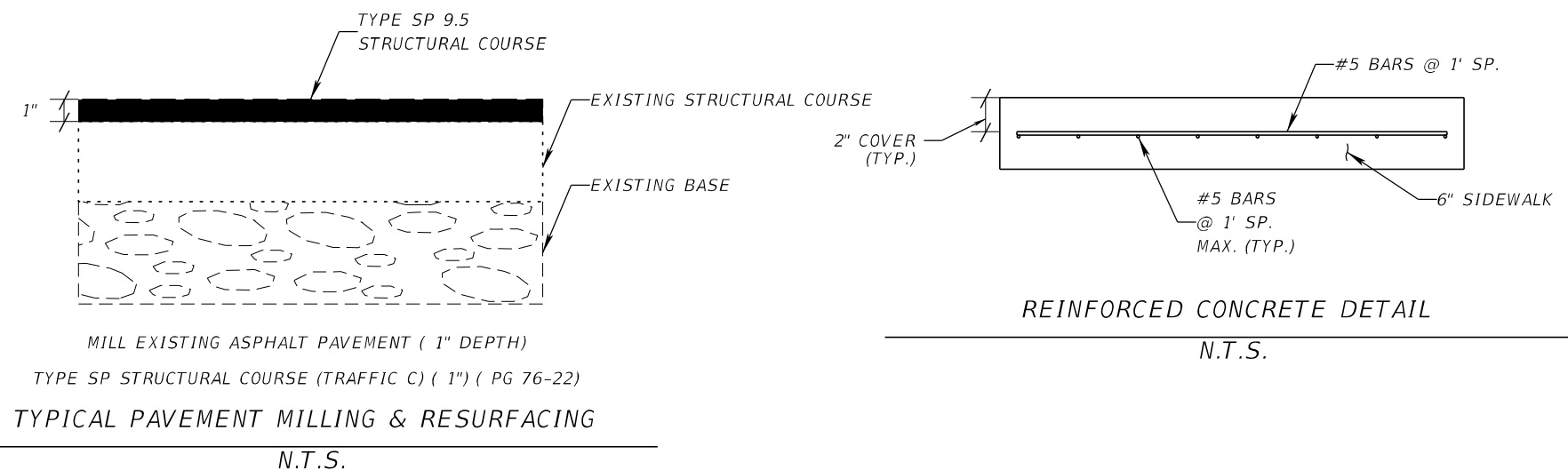
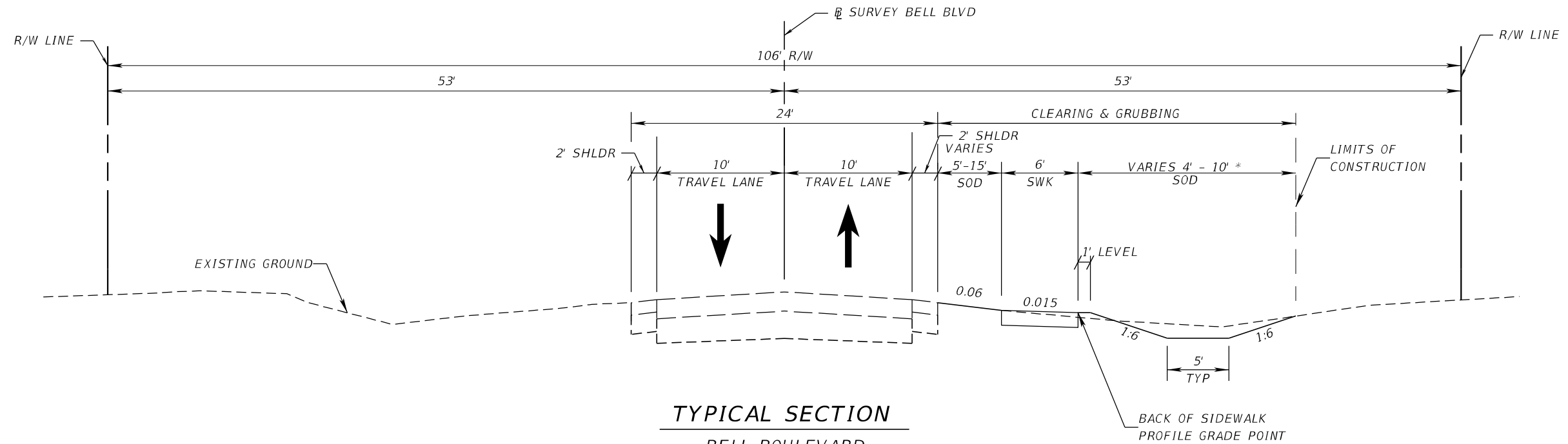
LEE COUNTY	
ROAD NO.	FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01

DRAINAGE MAP	
4	

SHEET NO.
4

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DESIGN SPEED: NOT APPLICABLE
 POSTED SPEED: 45 MPH (STA. 12+48.17 TO STA. 47+70.00)
 35 MPH (STA. 47+70.00 TO STA. 53+95.45)

* NO PROPOSED DITCH WITHIN THE LIMITS OF ROOT BARRIER TREATMENT.

REVISIONS				PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		TYPICAL SECTION	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		
					BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		5



TYPICAL SECTION DETAIL 2

TYPICAL SECTION DETAIL 3

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY STORED AND SEALED UNDER RULE 6102-23.004, F.A.C.

SUMMARY OF LUMP SUM ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0101 1	MOBILIZATION	1			

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS					
PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	TOTAL		CONSTRUCTION REMARKS
			P	F	
0102 1	MAINTENANCE OF TRAFFIC	LS	1		

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES										
LOCATION	SIDE	AREA ID	SEDIMENT BARRIER		FLOATING TURBIDITY BARRIER		INLET PROTECTION SYSTEM		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.			0104 10 3		0104 11		0104 18			
			LF		LF		EA			
			P	F	P	F	P	F		
12+27.17 to 14+68.38	RT		241.2							
14+84.33 to 19+98.28	RT		513.9							
20+16.94 to 23+19.31	RT		302.4							
23+74.13 to 26+00.39	RT		230.5							
26+15.75 to 31+32.52	RT		527.8							
31+49.97 to 36+99.65	RT		560.6							
37+21.48 to 45+41.63	RT		820.1							
46+16.10 to 48+11.10	RT		195.0							
48+11.10 to 48+68.81	RT		58.0							
48+68.81 to 49+64.24	RT		95.4							
49+85.06 to 53+46.16	RT		361.1							
52+85.07 to 53+33.88	LT		48.8							
53+70.78 to 53+95.45	RT		24.7							
53+78.84 to 55+52.15	LT		173.3							
56+72.15 to 58+85.42	LT		213.3							
59+06.63 to 59+16.96	LT		10.3							
55+81.74 to 56+02.69	LT				45.4					
56+27.69 to 56+43.80	LT				44.6					
55+47.50 to 55+57.32	LT						1			
55+48.40 to 55+55.43	LT						1			
55+66.36 to 55+73.40	LT						1			
156+55.44 to 56+65.67	LT						1			
56+68.50 to 56+75.53	LT						1			
56+86.66 to 56+93.69	LT						1			
57+05.35 to 57+15.17	LT						1			
57+45.15 to 57+54.97	LT						1			
58+48.72 to 58+55.76	LT						1			
SUB-TOTAL :			4376.4		90		98	1		
TOTAL :			4376		90		98			

REVISIONS				PROPEL PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		
5/13/25	1 REVISED QUANTITY FOR PAY ITEM 0104 18				BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		7

SUMMARY OF LITTER REMOVAL AND MOWING																						
CONST. PHASE	LOCATION	SIDE	DURATION (DAYS)	FREQUENCY (DAYS)	LITTER REMOVAL							MOWING							DESIGN NOTES	CONSTRUCTION REMARKS		
					0107 1							0107 2										
	AREA ID				L	W	CYCLES	AREA			AREA ID	L	W	CYCLES	AREA							
								AC/ CYCLE	TOTAL (AC)						AC/ CYCLE	TOTAL (AC)						
									P	F						P	F					
IA - IB	11+52.46 TO 59+16.96	LT	210	30		4764.5	43.0	7	4.703	32.923												
IA - IB	11+52.46 TO 59+16.96	RT	210	30		4764.5	43.0	7	4.703	32.923												
IA - IB	11+52.46 TO 59+16.96	LT	210	30								4764.5	41.0	7	4.484	31.391						
IA - IB	11+52.46 TO 59+16.96	RT	210	30								4764.5	41.0	7	4.484	31.391						
SUB-TOTAL:										65.845	SUB-TOTAL:										62.783	
TOTAL:										65.85	TOTAL:										62.78	

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS														
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	LENGTH	WIDTH	UNITS	SECONDARY UNITS (IF LUMP SUM)	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.						AREA (AC)	P	F	P	F		
0110 1 1	CLEARING & GRUBBING	12+35.01 TO 14+68.37	RT	56144			LS		0.116		1		TOTAL 2.38 AC	
		14+84.29 TO 23+15.08	RT	56157					0.447					
		23+76.98 TO 26+00.30	RT	56178					0.129					
		26+15.57 TO 31+32.58	RT	56210					0.309					
		31+50.14 TO 36+97.82	RT	56230					0.294					
		37+22.89 TO 45+41.44	RT	55705					0.445					
		46+16.57 TO 49+66.70	RT	55755					0.186					
		49+87.22 TO 53+45.46	RT	55844					0.190					
		52+84.51 TO 53+36.22	LT	55887					0.028					
		53+76.11 TO 55+72.71	LT	56049					0.108					
		56+72.15 TO 58+86.70	LT	56080					0.123					
		59+06.96 TO 59+16.96	LT	56117					0.002					
0110 4 10	REMOVAL OF EXISTING CONCRETE	14+62.23 TO 14+90.12	RT	56252			SY		40.9		147		DRIVEWAY	
		25+95.88 TO 26+19.40	RT	56269					43.4				DRIVEWAY	
		31+27.95 TO 31+55.71	RT	56297					45.4				DRIVEWAY	
		53+14.26 TO 53+36.22	LT	56313					8.2				CURB AND GUTTER	
		53+76.04 TO 54+06.21	LT	56317					9.4				CURB AND GUTTER	

REVISIONS				PROPEL PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		SUMMARY OF QUANTITIES		SHEET NO.	
DATE	DESCRIPTION		DATE		DESCRIPTION	ROAD NO.			FINANCIAL PROJECT NO.	8

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

SUMMARY OF MAILBOXES					
STATION	SIDE	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		0110	7 1		
		P	F		
24+41.50	RT	1		SIDE STREET	
26+35.00	RT	1		DRIVEWAY	
31+70.50	RT	1		DRIVEWAY	
SUB-TOTAL:		3			
TOTAL:		3			

SUMMARY OF EARTHWORK					
PAY ITEM NO.	PAY ITEM DESCRIPTION	CY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
0120 1	REGULAR EXCAVATION				
	STA. 12+48.17 TO STA. 59+16.96	826.3			
	TOTAL REGULAR EXCAVATION	826.3			
0120 6	EMBANKMENT				
	STA. 12+48.17 TO STA. 59+16.96	139.4			
	TOTAL EMBANKMENT	139.4			

SUMMARY OF PAVEMENT														
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION		SIDE	AREA ID	LENGTH	WIDTH	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.	DESCRIPTION						P	F	P	F		
0327 70 1	MILLING EXIST ASPH PAVT, 1" AVG DEPTH	11+52.46 to 12+70.39		RT	12200			SY	254.8		2670			
		22+96.85 to 23+99.92		RT	58941				317.3					
		36+82.70 to 37+49.68		RT	58957				114.9					
		45+19.20 to 46+48.51		RT	12361				402.9					
		49+54.15 to 50+04.62		RT	12336				82.7					
		52+49.38 to 54+41.21		LT/RT	351405				1339.1					
		58+60.58 to 59+38.79		LT	26090				158.3					
0334 1 53	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C, PG 76-22	11+52.46 to 12+70.39		RT	58845			TN	14.02		146.9			
		22+96.85 to 23+99.92		RT	58830				17.45					
		36+82.70 to 37+49.68		RT	26626				6.32					
		45+19.20 to 46+48.51		RT	58859				22.16					
		49+54.15 to 50+04.62		RT	58877				4.55					
		52+49.38 to 54+41.21		LT/RT	351450				73.65					
		58+60.58 to 59+38.79		LT	26751				8.71					

REVISIONS				PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		
					BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		
								9

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS														
PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	SIDE	AREA ID	UNIT	QUANTITY					TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
		STA. TO STA.				GROSS LENGTH	DEDUCTIONS		NET LENGTH		P	F		
							TYPE	LENGTH	P	F				
0520 1 10	CONCRETE CURB & GUTTER, TYPE F	53+14.88 to 53+33.04	LT		LF	36.2				36.2	101			
		53+27.45 to 53+34.63	LT			14.3				14.3				
		53+79.09 to 53+93.59	LT			16.3				16.3				
		53+86.35 to 54+06.25	LT			34.0				34.0				

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS												
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	REINFORCING STEEL - ROADWAY		CONC SIDEWALK 6"		DETECTABLE WARNINGS		DESIGN NOTES	CONSTRUCTION REMARKS
					0415 1 1		0522 2		0527 2			
					LB		SY		SF			
					P	F	P	F	P	F		
53+78.25 to 53+95.45	RT				177.0							
53+87.82 to 54+80.00	LT				1128.0							
12+48.17 to 23+09.09	RT	51953					729.8					
23+83.92 to 36+93.93	RT	54137					942.2					
37+27.17 to 45+33.48	RT	51994					534.5					
46+30.92 to 49+63.54	RT	52003					218.7					
49+95.20 to 53+38.89	RT	52081					238.5					
52+85.00 to 53+32.09	LT	351385					46.4					
53+78.25 to 53+95.45	RT	52104					9.4					
53+87.29 to 55+52.15	LT	351355					124.3					
56+72.15 to 58+86.70	LT	52180					159.0					
59+06.96 to 59+16.96	LT	52244					8.1					
12+48.17 to 12+69.52	RT	14699						33.9				
22+98.10 to 23+09.09	RT	14705						19.6				
23+83.92 to 23+95.15	RT	54228						19.5				
36+86.52 to 36+93.93	RT	14716						15.8				
37+27.17 to 37+35.92	RT	54233						16.8				
45+22.16 to 45+33.48	RT	14728						20.0				
46+30.92 to 46+46.04	RT	14734						25.5				
49+56.30 to 49+63.54	RT	14740						14.7				
49+95.20 to 50+03.97	RT	14760						16.9				
52+91.69 to 53+01.38	LT	14780						19.8				
53+26.14 to 53+31.97	LT	351316						13.0				
53+27.02 to 53+38.89	RT	14767						20.8				
53+78.25 to 53+88.90	RT	14773						19.8				
53+87.82 to 53+97.61	LT	351322						18.7				
58+83.79 to 58+86.70	LT	14798						12.2				
59+06.96 to 59+10.04	LT	14805						15.6				
SUB-TOTAL:					1245.0		3010.9		302.6			
TOTAL:					1245		3011		303			

REVISIONS				PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION		DATE		ROAD NO.	FINANCIAL PROJECT NO.		
					BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		10

SUMMARY OF PERFORMANCE TURF

LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570	1 2		
					SY			
					P	F		
12+35.01 to 14+68.37	RT	54609			55.4			
12+36.11 to 14+68.21	RT	54726			127.4			
12+41.60 to 14+68.21	RT	54489			100.7			
12+62.63 to 14+66.22	RT	54334			135.0			
14+84.30 to 16+00.00	RT	54498			104.1			
14+84.31 to 16+00.00	RT	54715			61.5			
14+84.32 to 15+83.33	RT	54620			55.6			
14+86.21 to 19+86.98	RT	54327			373.0			
16+00.00 to 19+92.11	RT	54503			176.0			
16+00.00 to 19+94.30	RT	54721			218.4			
16+00.00 to 19+94.66	RT	54625			44.4			
20+19.58 to 23+15.08	RT	54630			33.2			
20+19.84 to 23+14.49	RT	54735			162.7			
20+20.38 to 23+11.55	RT	54508			130.5			
20+21.07 to 23+01.36	RT	54315			204.4			
23+76.98 to 26+00.30	RT	55068			114.5			
23+78.91 to 26+00.23	RT	55073			124.0			
23+81.21 to 26+00.14	RT	55080			99.2			
23+90.78 to 25+99.95	RT	55035			146.3			
26+15.57 to 31+29.71	RT	54452			397.6			
26+15.67 to 31+32.27	RT	54527			232.0			
26+15.74 to 31+32.58	RT	54751			289.1			
26+19.46 to 31+32.57	RT	54644			234.0			
31+50.14 to 36+97.82	RT	54649			80.6			
31+50.17 to 36+97.33	RT	54760			304.9			
31+50.59 to 36+95.44	RT	54534			245.4			
31+53.69 to 36+89.50	RT	54461			431.3			
37+22.89 to 45+41.79	RT	55155			239.6			
37+23.36 to 45+40.28	RT	55188			452.5			
37+25.00 to 45+36.72	RT	55204			359.0			
37+32.56 to 45+27.10	RT	55146			572.1			
46+16.57 to 49+65.68	RT	54679			97.8			
46+18.93 to 49+66.70	RT	54792			191.1			
46+25.54 to 49+65.85	RT	54567			151.4			
46+41.62 to 49+60.07	RT	54473			245.4			
49+87.22 to 50+18.97	RT	54699			8.3			
49+88.90 to 50+24.82	RT	54815			17.4			
49+92.24 to 50+28.08	RT	54588			16.5			
50+01.15 to 52+91.38	RT	54418			242.9			
50+28.08 to 50+54.65	RT	54831			6.2			
50+54.65 to 53+41.83	RT	54602			130.3			
50+58.47 to 53+44.76	RT	54826			158.2			
50+66.17 to 53+45.46	RT	54710			94.1			
52+84.51 to 53+17.81	LT	54347			37.8			
53+01.30 to 53+32.10	RT	54376			14.5			
53+01.38 to 53+25.86	LT	54361			20.2			
53+03.27 to 53+09.38	LT	351514			19.6			
SUB-TOTAL :					7756.1			
TOTAL :					8783			

REVISIONS				PROPEL PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		11
					BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		

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

SUMMARY OF PERFORMANCE TURF								
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD)		DESIGN NOTES	CONSTRUCTION REMARKS
					0570 1 2			
SY								
P					F			
53+09.38 to 53+34.12	LT	54355			22.0			
53+09.38 to 53+34.14	LT	351498			20.9			
53+78.23 to 55+72.71	LT	351546			194.8			
53+78.35 to 55+72.71	LT	55262			200.3			
53+97.51 to 54+50.00	LT	54387			26.7			
54+50.00 to 55+72.71	LT	55232			134.9			
56+72.15 to 58+80.00	LT	55324			244.9			
56+72.15 to 58+85.83	LT	55291			182.8			
SUB-TOTAL :					1027.3			

SUMMARY OF LANDSCAPE ITEMS								
LOCATION	SIDE	AREA ID	LENGTH	WIDTH	ROOT BARRIER - 24"		DESIGN NOTES	CONSTRUCTION REMARKS
					0580 12 35			
					LF			
					P	F		
STA. TO STA.								
13+69.12 to 14+19.12	RT	26462			50.0			
14+84.30 to 15+14.58	RT	26471			30.0			
19+39.73 to 19+89.73	RT	26474			50.0			
20+33.78 to 20+83.78	RT	26481			50.0			
24+88.41 to 25+37.82	RT	26485			50.0			
27+75.34 to 28+04.98	RT	26491			30.0			
29+49.83 to 29+99.24	RT	26495			50.0			
30+41.21 to 30+90.63	RT	26499			50.0			
32+30.71 to 32+80.11	RT	26505			50.0			
34+10.65 to 34+60.06	RT	26504			50.0			
35+01.85 to 35+51.21	RT	26513			50.0			
35+93.56 to 36+42.97	RT	26517			50.0			
37+62.79 to 38+12.79	RT	26523			50.0			
41+29.01 to 41+69.01	RT	26527			40.0			
42+40.20 to 42+90.20	RT	26531			50.0			
43+54.51 to 43+99.51	RT	26536			45.0			
47+79.76 to 48+19.76	RT	26542			40.0			
50+30.28 to 50+52.45	RT	26543			22.0			
SUB-TOTAL :					807.0			
TOTAL :					807			

REVISIONS				PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		
					BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		12

SUMMARY OF SIGNAGE AND STRIPING																				
PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																GRAND TOTAL	
			16		17		18		20		21		22		23		24			
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL
0654 2 28	MIDBLOCK CROSSWALK: REC RAPID FLASHING BEACON, FURNISH/INSTALL-SOLAR, SIGN ASSEMBLY-BACK-BACK ACCESSIBLE DETECTOR	AS													2				2	
0700 1111	SINGLE COLUMN GROUND SIGN ASSEMBLY, F&I GROUND MOUNT, LESS THAN 12 SF	EA			1						1		1		4		1		8	
0700 1500	SINGLE COLUMN GROUND SIGN ASSEMBLY, RELOCATE	EA	1				1		1				1		2				6	
0700 1600	SINGLE COLUMN GROUND SIGN ASSEMBLY, REMOVE	EA	1		1						1		1						4	
0710 90	PAINTED PAVEMENT MARKINGS, FINAL SURFACE	LS																	1	
0711 11123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12" FOR CROSSWALK AND ROUNDABOUT	LF	177				168		80				216		385				1026	
0711 11125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24" FOR STOP LINE AND CROSSWALK	LF	32				39		14				23		104				212	
0711 11170	THERMOPLASTIC, STANDARD, WHITE, ARROW	EA													1				1	
0711 14125	THERMOPLASTIC, PREFORMED, WHITE, SOLID, 24" FOR CROSSWALK	LF													100				100	
0711 16101	THERMOPLASTIC, STANDARD-OTHER SURFACES, WHITE, SOLID, 6"	GM											0.023		0.046				0.069	
0711 16201	THERMOPLASTIC, STANDARD-OTHER SURFACES, YELLOW, SOLID, 6"	GM	0.009				0.011		0.005				0.014		0.044				0.084	

REVISIONS				PROPEL PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		SUMMARY OF QUANTITIES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		13
					BELL BOULEVARD SIDEWALK. SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		

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

SUMMARY OF DESILTING PIPE					
LOCATION	SIDE	DESILTING PIPE, 0-24" (LF)	DESILTING PIPE, 25-36" (LF)	DESIGN REMARKS	CONSTRUCTION REMARKS
STA		430 94 1	430 94 2		
14+59.00	RT	32			
25+92.50	RT	32			
31+31.42	RT	21			
55+52.17	LT	37			
55+53.06	RT	56			
56+40.43	LT	35			
56+45.85	RT	49			
56+40.00	LT		25		
57+50.00	LT		102		
SUB-TOTAL		262	123 102		
TOTAL		262	123 102		

QUANTITY	STR. NO.	STATION	OFFSET	SIDE	DESCRIPTION	CONCRETE PIPE CULVERT		DBI			MANHOLE TYPE P-7	REMARKS
						ROUND SHAPE		TYPE B	TYPE C	TYPE F		
						18"	30"	<10'	<10'	<10'		
						0430 175118	0430 175130	0425 1511	0425 1521	0425 1561		
P	S-1	55+52.15	32.21'	LT	INLET TYPE DBI	15			1		0425 2 41	
F												
P	S-2	55+70.00	31.17'	LT	INLET TYPE DBI					1		
F												
P	S-2A	56+61.00	43.46'	LT	INLET TYPE DBI		3					
F												
P	S-2B	56+61.00	49.85'	LT	INLET TYPE DBI		85					
F												
P	S-3	56+72.04	30.11'	LT	INLET TYPE DBI	35				1		
F												
P	S-4	57+10.00	31.04'	LT	INLET TYPE DBI				1			
F												
P	S-5	57+50.00	40.33'	LT	MANHOLE TYPE		6				1	
F												
P	S-6	57+50.00	48.32'	LT	INLET TYPE DBI		117	1				
F												
P												
SUB TOTAL					PLAN QUANTITY	50	94 123	3 1	2	2	1	
					FINAL QUANTITY							
GRAND TOTAL					PLAN QUANTITY	50	94 123	3 1	2	2	1	
					FINAL QUANTITY							

REVISIONS				PROPEL PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		SUMMARY OF DRAINAGE STRUCTURES	SHEET NO.		
DATE	DESCRIPTION		DATE		DESCRIPTION			ROAD NO.	FINANCIAL PROJECT NO.	
5/13/25	1 REVISED QUANTITY FOR PAY ITEMS 0425 1511, 0430 175130, AND 430 94 2							BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01	14

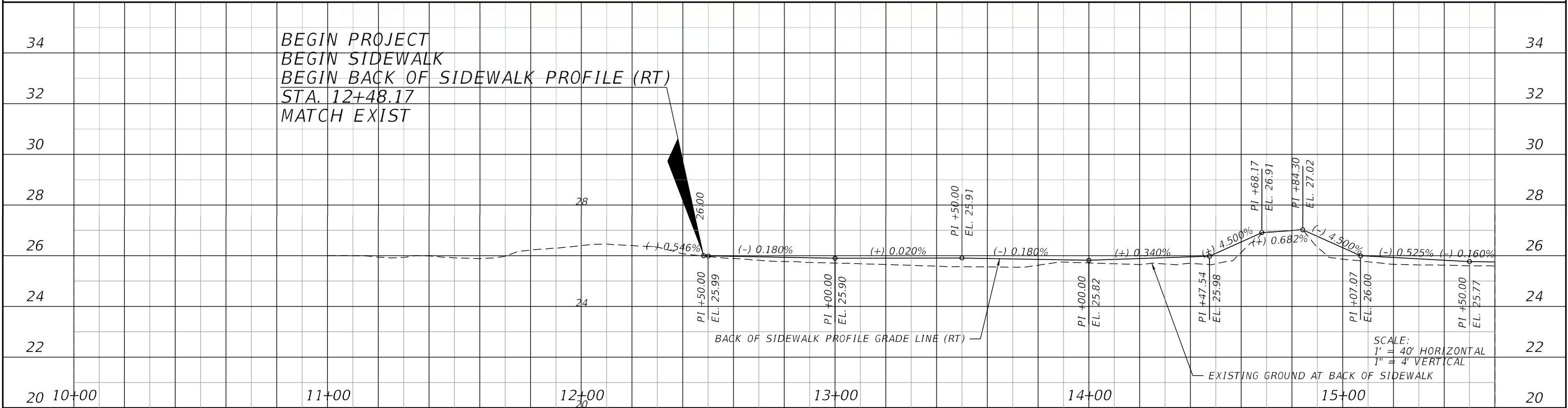
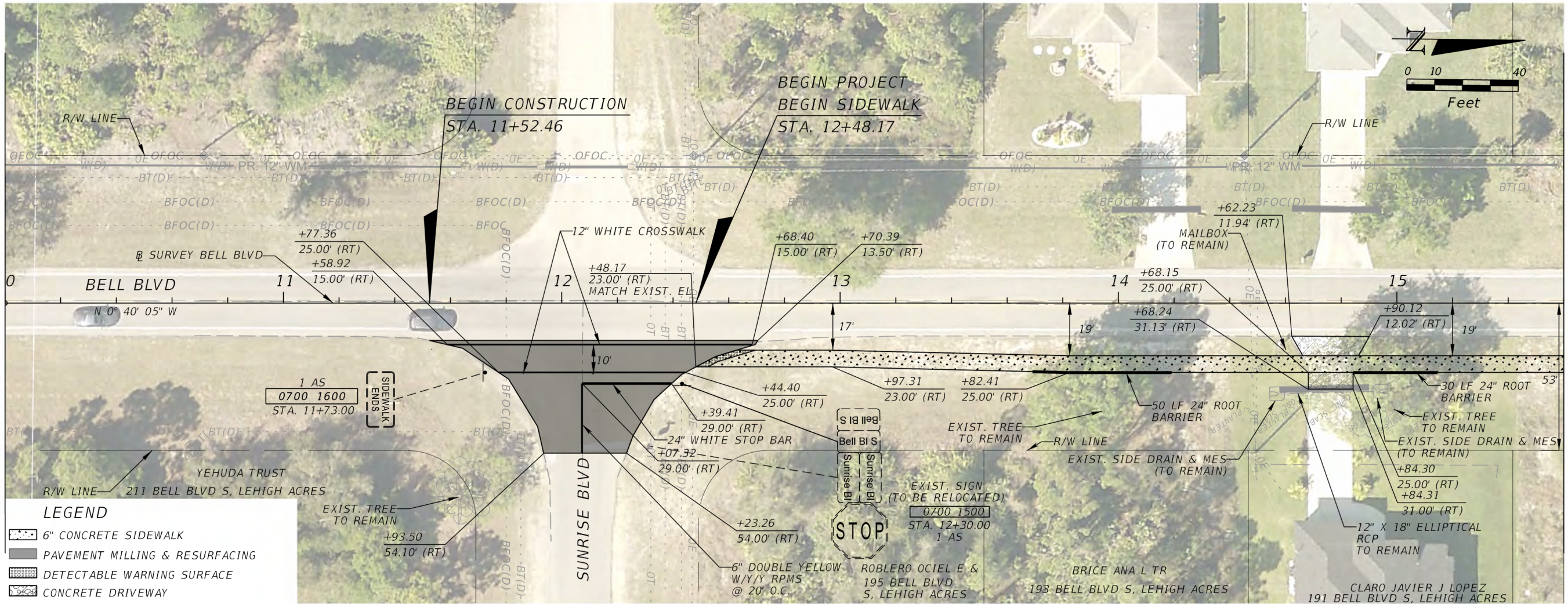
GENERAL NOTES:

1. THE HORIZONTAL CONTROL FOR THIS PROJECT IS BASED ON THE FLORIDA STATE PLAN COORDINATE SYSTEM, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (NAD83 DATUM WITH 2011 ADJUSTMENT). BENCHMARK ELEVATIONS ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
2. EXISTING FACILITIES SHALL BE RESTORED TO THAT WHICH EXISTED PRIOR TO COMMENCING CONSTRUCTION AT NO ADDITIONAL COST TO OWNER.
3. EXISTING DRAINAGE STRUCTURES WITHIN CONSTRUCTION LIMITS SHALL REMAIN UNLESS OTHERWISE NOTED.
4. ALL EXCAVATION IN CLOSE PROXIMITY TO A POWER POLE SHALL UTILIZE TRENCH BOX OR OTHER MEANS OF SHORING TO ENSURE THE POLES ARE NOT UNDERMINED.
5. THE LOCATIONS OF THE EXISTING UTILITIES SHOWN IN THE PLANS ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY.

<u>UAOS</u>	<u>SERVICE</u>	<u>CONTACT</u>	<u>TELEPHONE NUMBER</u>
CENTURY LINK LUMEN	FIBER, TELEPHONE	TROY INNISS	(239) 920-5821
COMCAST	CATV	DALLAS KIEMSKI	(239) 989-2111
LEE COUNTY ELECTRIC CO-OP	ELECTRIC, STREET LIGHTS	THOMAS BAILEY	(239) 656-2414
LEE COUNTY SIGNAL DEPARTMENT	COMMUNICATION LINES, ELECTRIC, FIBER, STREET LIGHTS	MICHAEL PADGETT	(239) 533-9500
CROWN CASTLE NG	FIBER	DANIEL HASKETT	(786) 246-7827
FLORIDA GOVERNMENTAL UTILITIES AUTHORITY-LEHIGH	WATER, SEWER	LINA MARIA QUINTERO	(727) 858-2396

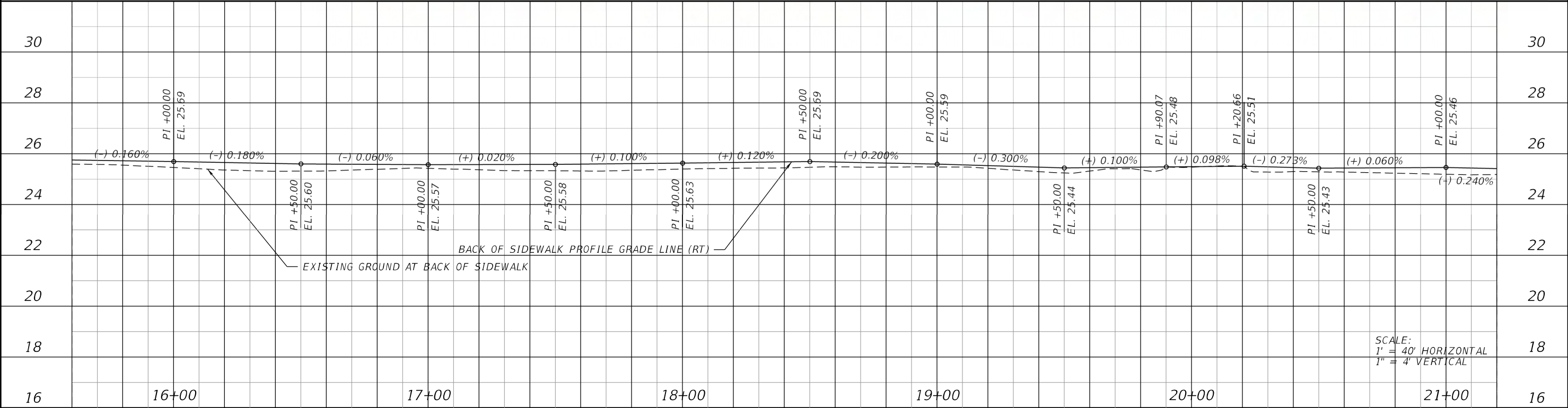
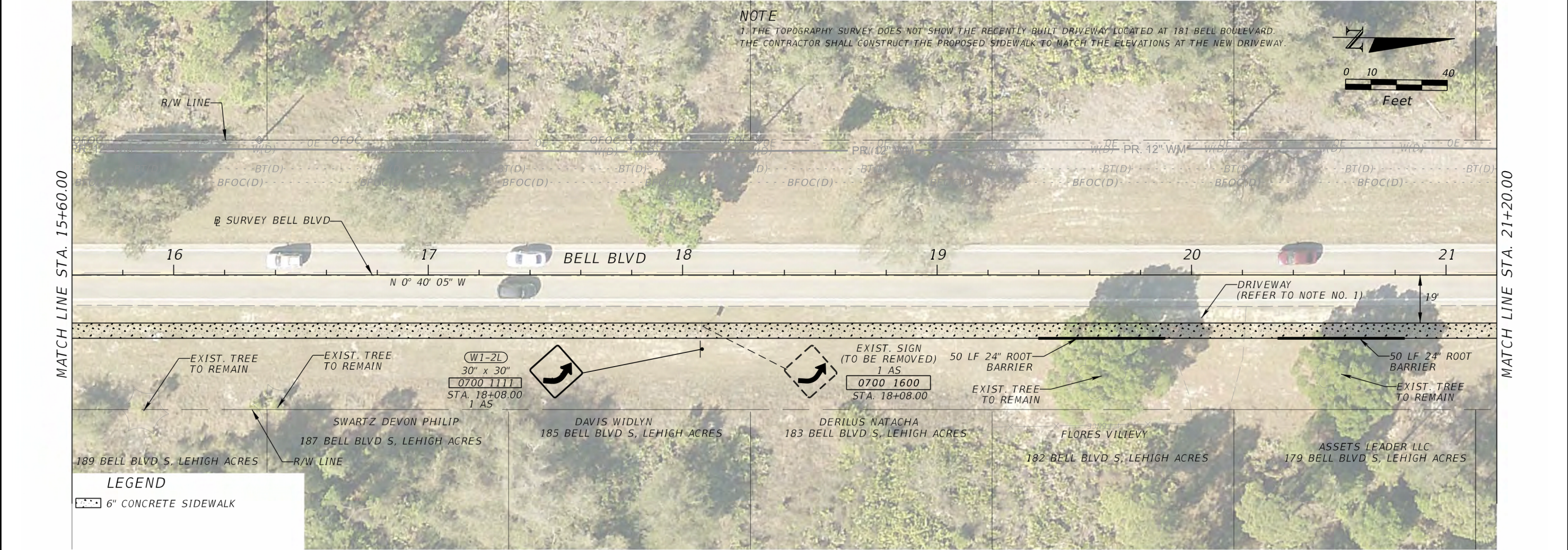
6. ANY PUBLIC LAND CORNER WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED AND HAS NOT BEEN PROPERLY REFERENCED, THE CONTRACTOR SHALL NOTIFY LEE COUNTY, WITHOUT DELAY, BY TELEPHONE AT 239-533-9400.
7. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE STATE OF FLORIDA EROSION AND SEDIMENT CONTROL MANUAL.
8. ALL PROPOSED PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP/ERCP) IN ACCORDANCE WITH SECTION 449 AND SHALL BE A MINIMUM OF CLASS III OR HE-III.
9. CONTRACTOR SHALL NOTIFY RESIDENCES AND BUSINESSES AT LEAST 48 HOURS IN ADVANCE OF ANY DISRUPTION IN SERVICE, INCLUDING DRIVEWAY CUTS.
10. NOTIFY ALL THE UTILITY COMPANIES IN THE AREA AT LEAST 2 BUSINESS DAYS PRIOR TO CONSTRUCTION AND CALL THE SUNSHINE STATE ONE AT 1-800-432-4770.
11. EXISTING UTILITIES ARE TO REMAIN IN PLACE UNLESS OTHERWISE NOTED.
12. AT THE COMPLETION OF THIS PROJECT, ALL DISTURBED AREAS THAT ARE NOT TO BE PAVED OR CONCRETE SHALL BE SODDED. QUANTITIES SHOWN INCLUDE THAT AREA INTENDED TO BE DISTURBED WHICH IS DETAILED ON THE TYPICAL SECTIONS. OTHER DISTURBED AREAS ARE CONTRACTOR'S RESPONSIBILITY.
13. PROMPTLY NOTIFY ALL FIELD CHANGES TO THE ENGINEER.
14. CONSTRUCTION STAKING IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THESE SERVICES DURING CONSTRUCTION.
15. ALL EXISTING TREES WITHIN THE EXISTING RIGHT OF WAY ARE TO BE TRIMMED TO MAINTAIN TEN (10) FEET VERTICAL CLEARANCE AND TWO (2) FEET HORIZONTAL CLEARANCE FROM SIDEWALK. TRIMMING IS INCLUDED IN PAY ITEM 110-1-1.
16. ALL CROSSWALK RAMPS ADA DETECTABLE WARNING TILES (TRUNCATED PADS) SHALL BE WET-SET.
17. CONTRACTOR IS RESPONSIBLE FOR CAPPING OR REPLACING ANY DAMAGED IRRIGATION SYSTEM ENCOUNTERED.
18. THERE MAY BE RESIDENTIAL DRAIN FIELDS, WELLS AND SEPTIC TANKS IN CLOSE PROXIMITY TO THE WORK BEING CONTEMPLATED. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING DRAIN FIELDS, WELLS OR SEPTIC SYSTEMS WITHIN THEIR CONTROL.
19. DRIVEWAY ACCESS SHALL BE PROVIDED TO RESIDENTS AT ALL TIMES UNLESS PREVIOUSLY AAPPROVED BY THE COUNTY.
20. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO THE ASPHALT ROADWAY DURING DRIVEWAY INSTALLATION. DAMAGES SHALL BE RESTORED TO THE DIMENSIONS AS DETAILED IN THE SPECIFICATIONS.
21. WHEN RECONSTRUCTING DRIVEWAYS, THE CONTRACTOR SHALL EXTEND THE WORK TO THE NEAREST EXISTING CONSTRUCTION JOINT IF WITHIN 3 FEET OF THE LIMIT OF WORK SHOWN ON PLAN AND WITHIN R.O.W. THIS WORK WILL BE PAID FOR UNDER PAY ITEM 0522 2 CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK.
22. DRIVEWAYS WITH A PROPOSED, OR EXISTING DRAINAGE PIPE, WITH LESS THAN 6-INCHES OF SEPARATION FROM THE BOTTOM OF THE CONCRETE DRIVEWAY TO THE TOP OF THE RCP/ERCP PIPE SHALL HAVE AN EXPANSION JOINT ON THE DRIVEWAY LOCATED ALONG THE CROWN OF THE PIPE.
23. DE-SILT ALL EXISTING STORM DRAIN PIPES AND INLETS.
24. ALL PROPERTY OWNERS NAMES AND ADDRESSES SHOWN IN THE PLANS ARE FROM PROPERTY APPRAISER WEBSITE (HTTPS:WWW.LEEPA.ORG).
25. CONTRACTOR SHALL ADHERE TO REQUIREMENTS IN "LEE COUNTY DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS FOR TRAFFIC SIGNAL & STREET LIGHTING", LATEST EDITION AT THE TIME OF LETTING. (HTTPS://WWW.LEEGOV.COM/DOT/TRAFFIC/TRAFFICSTANDARD).
26. CONTACT LEE COUNTY DEPARTMENT OF TRANSPORTATION (LCDOT) FOR ANY QUESTIONS REGARDING EQUIPMENT OR INSTALLATION REQUIREMENTS. FOLLOW THE FOOT GOVERNING STANDARDS AND SPECIFICATIONS FOR ALL ITEMS NOT COVERED BY LEE COUNTY DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
27. AT LEAST TWO (2) BUSINESS DAYS PRIOR TO BEGINNING THE RRFB INSTALLATION, CONTACT THE INSPECTOR/LIASON:
LEE COUNTY DEPARTMENT OF TRANSPORTATION
JAMES FENCIL
5650 ENTERPRISE PARKWAY
FORT MYERS, FL 33905
LCDOTPROJECTS@LEEGOV.COM
PH: 239-707-4870
28. WHEN CONSTRUCTION IS COMPLETE, PROVIDE A SET OF "AS-BUILT" PLANS IN ELECTRONIC FORM (PDF) TO:
LEE COUNTY DEPARTMENT OF TRANSPORTATION - TRAFFIC SECTION RYAN KIRSCH
5650 ENTERPRISE PARKWAY
FORT MYERS, FL 33905
LCDOTPROJECTS@LEEGOV.COM
PH: 239-533-9500
29. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL SUBMIT "SUBMITTALS" TO ENGINEER AND LEE COUNTY DEPARTMENT OF TRANSPORTATION -TRAFFIC SECTION IN ELECTRONIC FORM (PDF) TO
LCDOTPROJECTS@LEEGOV.COM.
30. ~~GOPHER TORTOISE HABITAT IS PRESENT~~
~~A GOPHER TORTOISE MEMO IDENTIFIED BURROWS WITHIN THE PROJECT LIMITS~~ FROM STA. 15+40LT TO STA. 23+00LT. STAGING/PARKING OF VEHICLES IS NOT ALLOWED FROM STA. 15+40LT TO STA. 23+00LT. A GOPHER TORTOISE  SURVEY WILL BE CONDUCTED WITHIN 90 DAYS PRIOR TO CONSTRUCTION. LEE COUNTY DOT WILL COORDINATE ANY REQUIRED GOPHER TORTOISE RELOCATIONS. IF GOPHER TORTOISE BURROWS ARE DISCOVERED DURING CONSTRUCTION, CONTACT KEITH RIDDLE, LEE COUNTY DOT PROJECT MANAGER AT 239-406-0379. THE CONTRACTOR SHALL ADHERE TO FWC GUIDELINES RELATED TO GOPHER TORTOISE PROTECTION THROUGHOUT THE DURATION OF CONSTRUCTION.
31. REFER TO STANDARD PLANS INDEX 654-001 FOR THE INSTALLATION OF RECTANGULAR RAPID FLASHING BEACON ASSEMBLY.

REVISIONS				PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		
5/13/25	 REVISED NOTE				BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		15

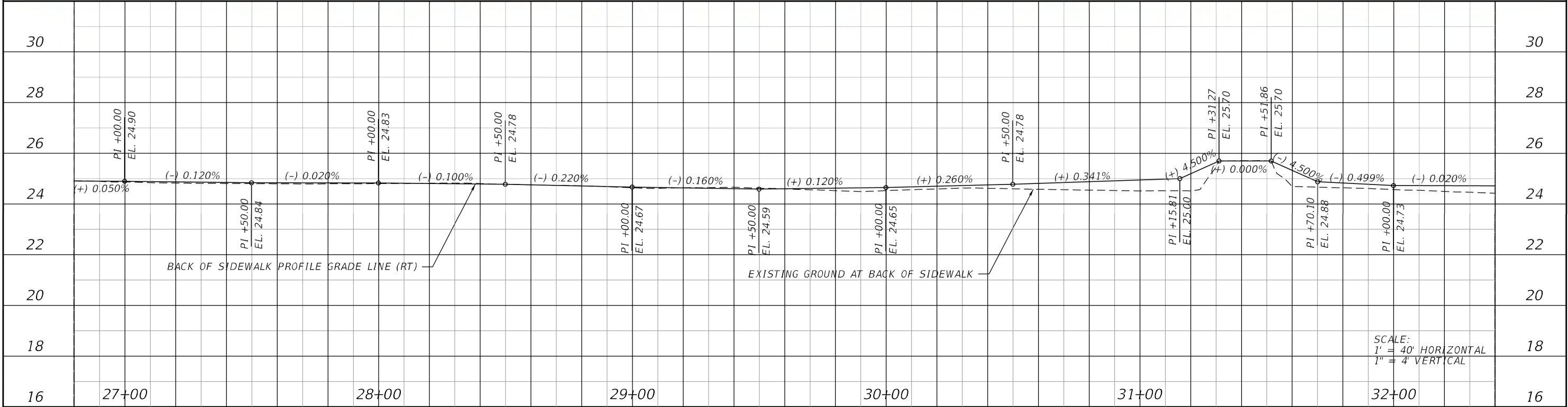


REVISIONS				PROPEL PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		PLAN AND PROFILE	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		16
					BELL BOULEVARD SIDEWALK. SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		

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DATE	DESCRIPTION		DATE		DESCRIPTION			441901-1-58-01

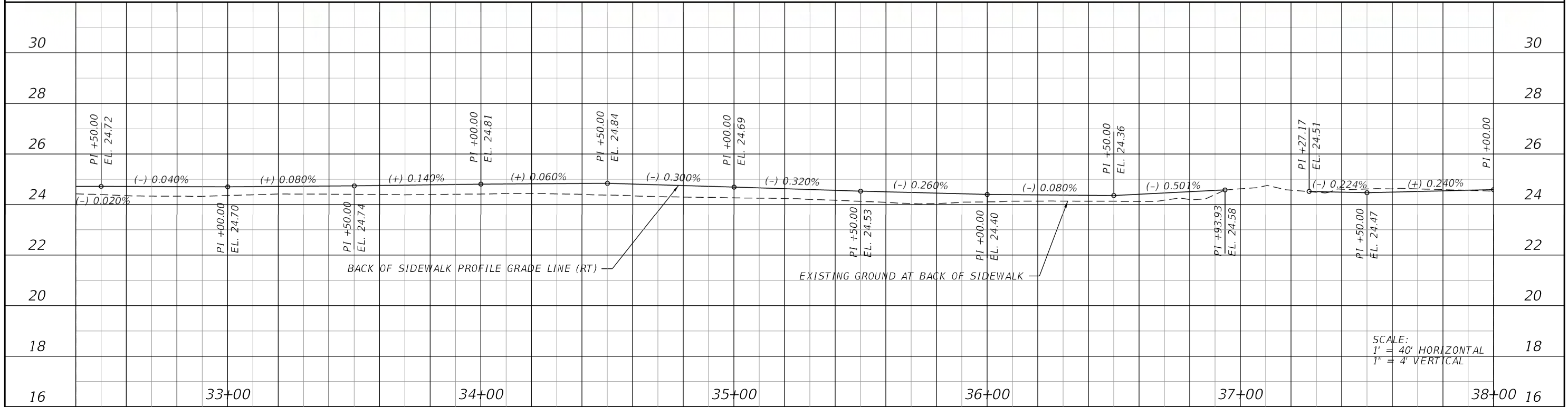
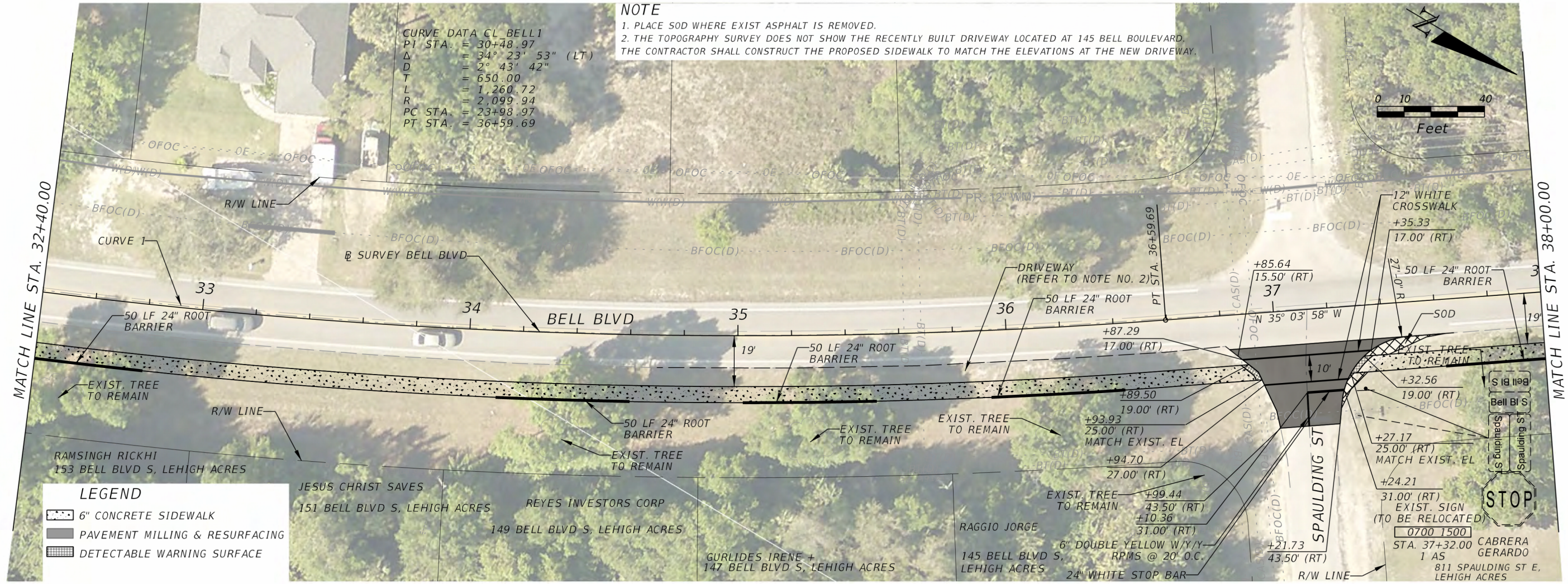
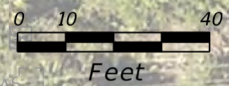


REVISIONS				PROPEL PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		PLAN AND PROFILE	SHEET NO.	
DATE	DESCRIPTION		DATE		DESCRIPTION				ROAD NO.
								BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01

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NOTE
1. PLACE SOD WHERE EXIST ASPHALT IS REMOVED.
2. THE TOPOGRAPHY SURVEY DOES NOT SHOW THE RECENTLY BUILT DRIVEWAY LOCATED AT 145 BELL BOULEVARD. THE CONTRACTOR SHALL CONSTRUCT THE PROPOSED SIDEWALK TO MATCH THE ELEVATIONS AT THE NEW DRIVEWAY.

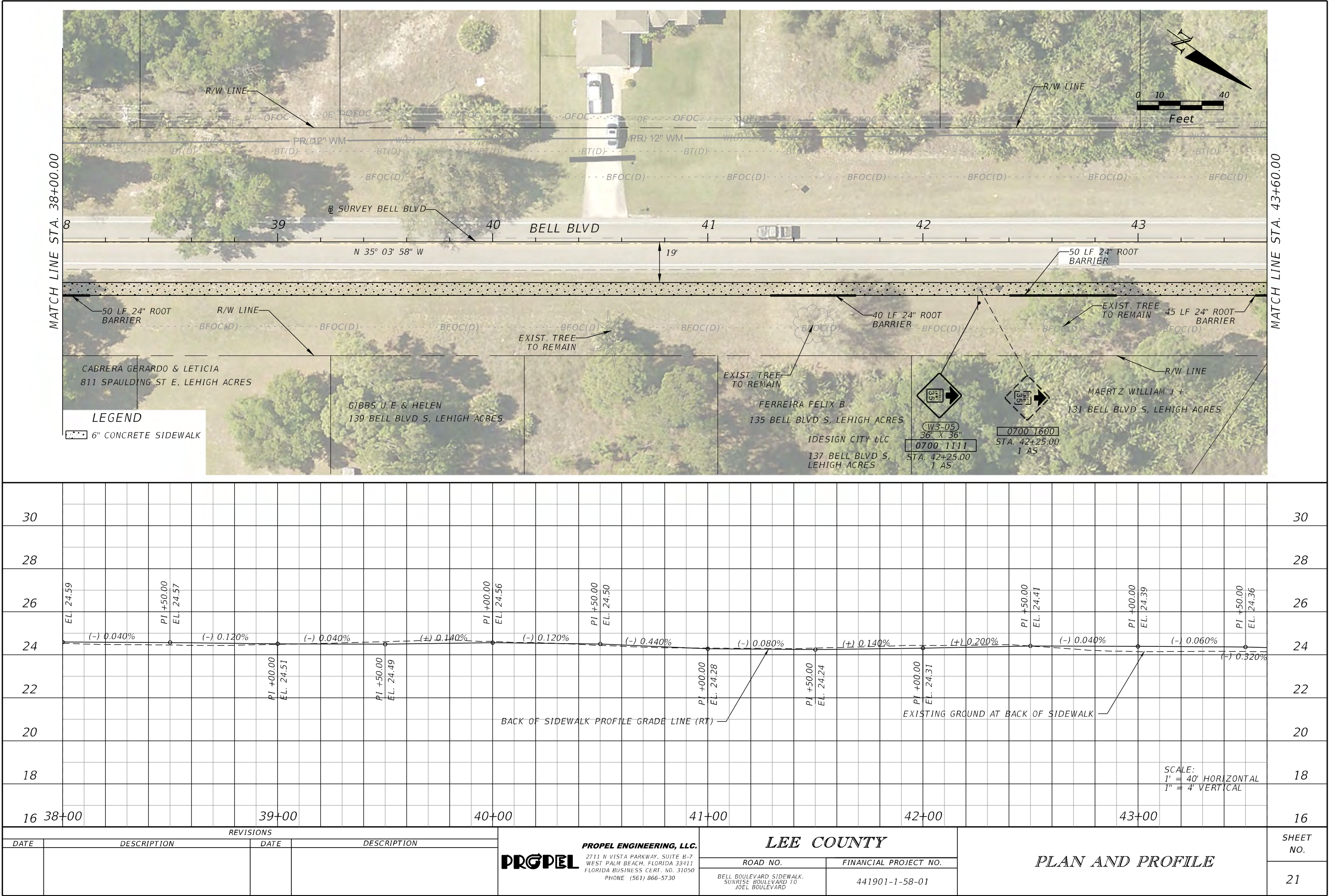
CURVE DATA CL BELL1
PI STA. = 30+48.97
Δ = 34° 23' 53" (LT)
D = 2° 43' 42"
T = 650.00
L = 1,260.72
R = 2,099.94
PC STA. = 23+98.97
PT STA. = 36+59.69



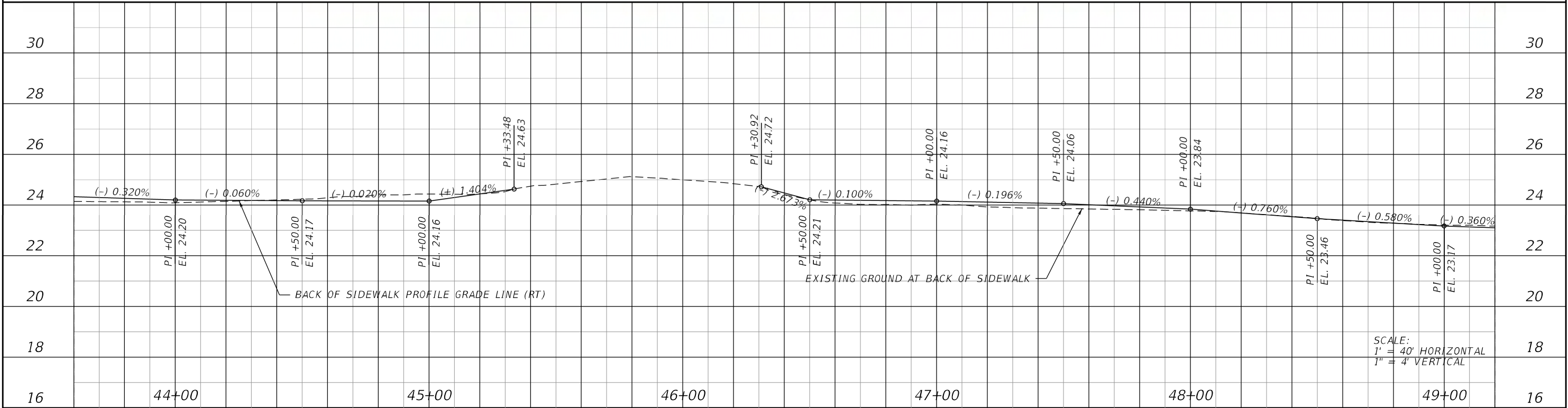
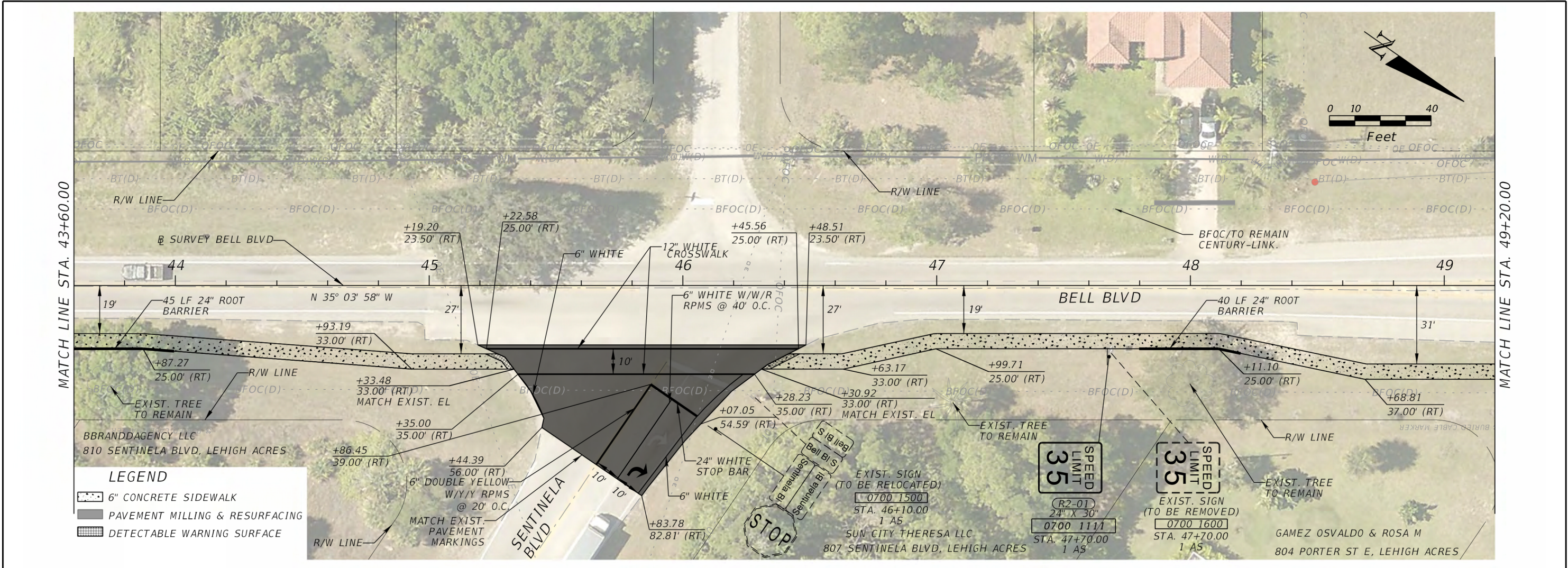
SCALE:
1' = 40' HORIZONTAL
1" = 4' VERTICAL

REVISIONS				PROPEL PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		PLAN AND PROFILE	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		20
					BELL BOULEVARD SIDEWALK. SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		

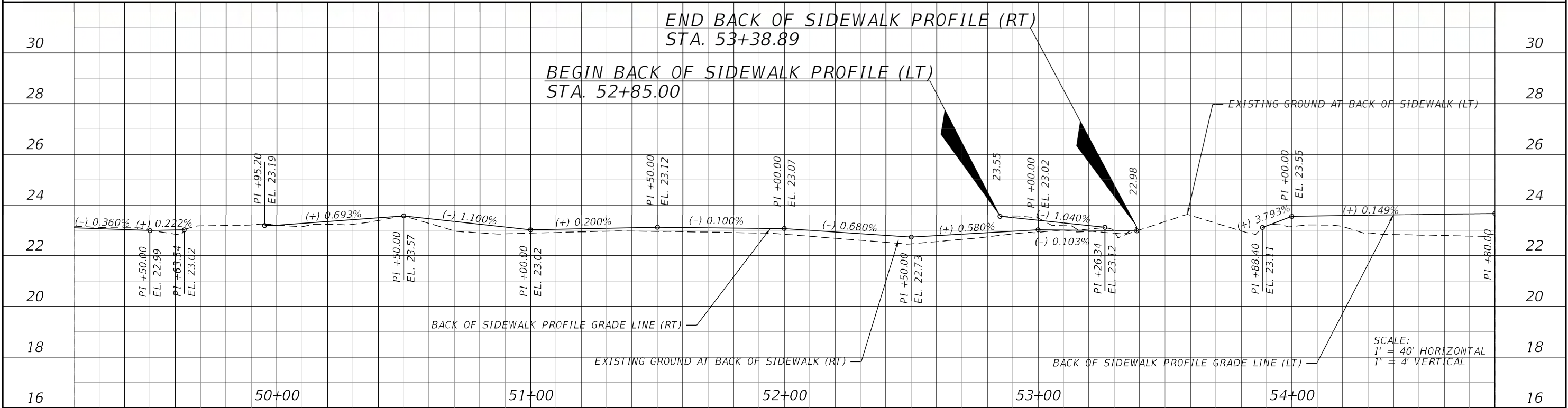
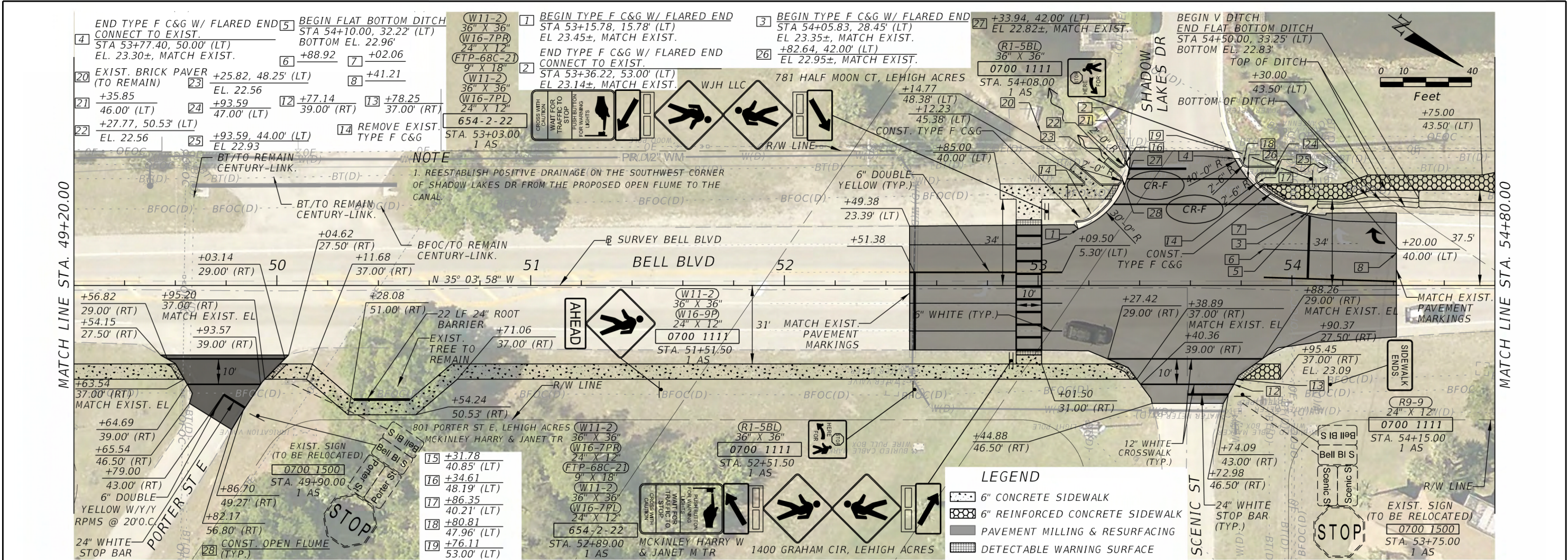
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



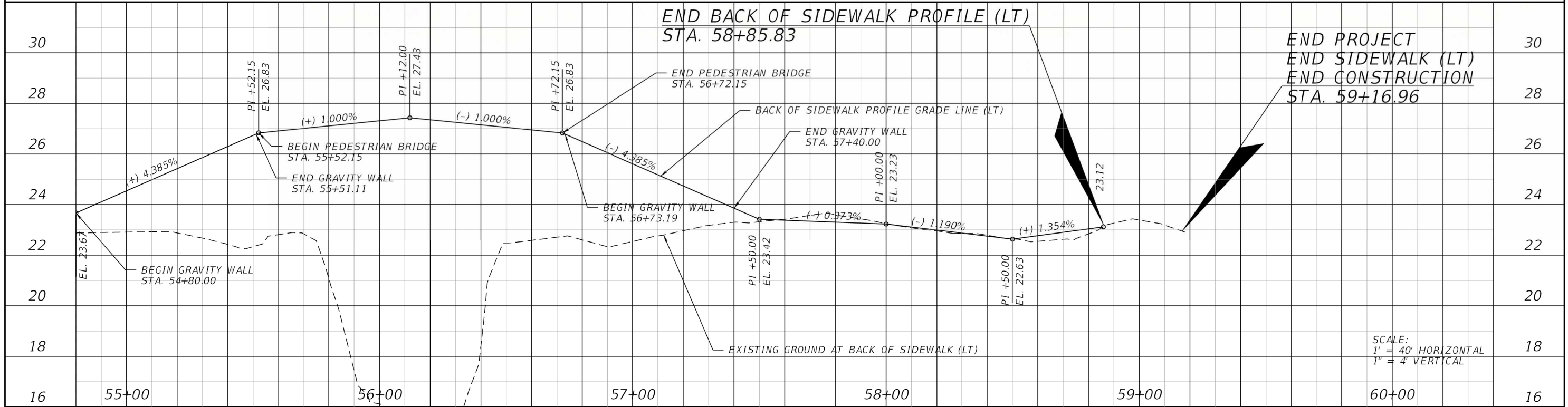
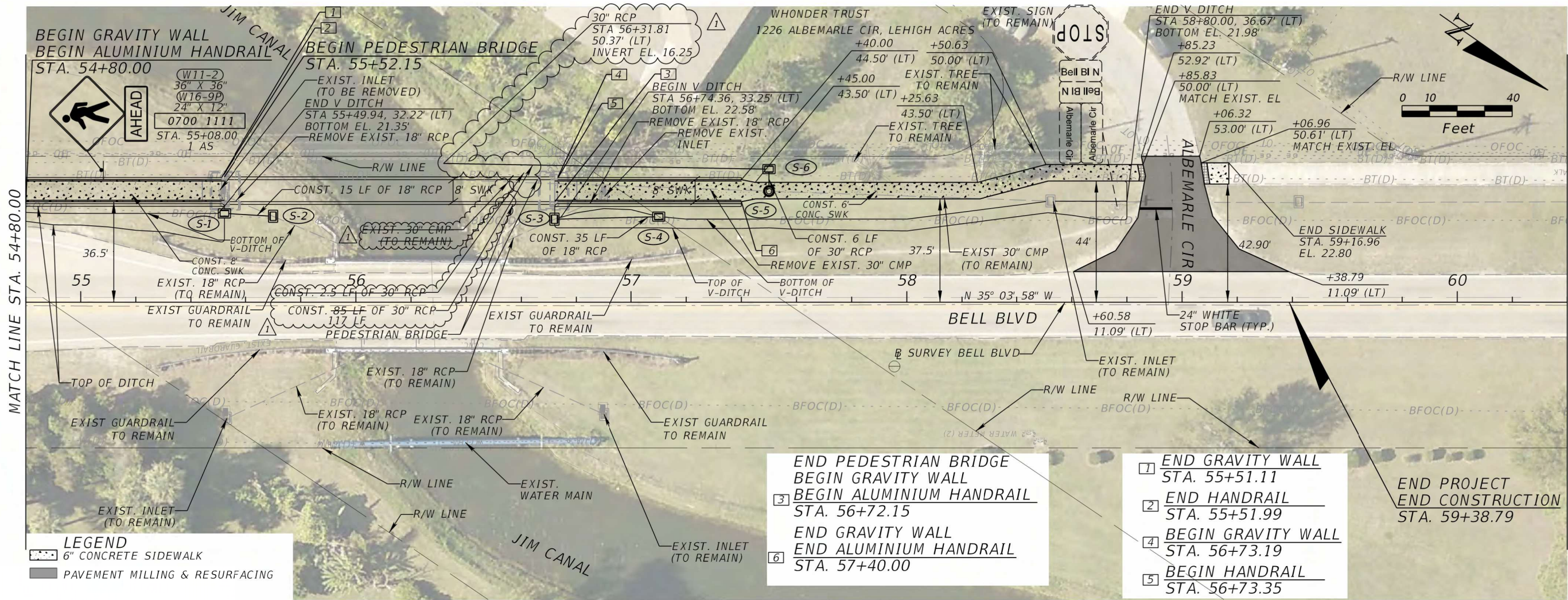
THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.



REVISIONS				PROPEL PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		PLAN AND PROFILE	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		22
					BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		

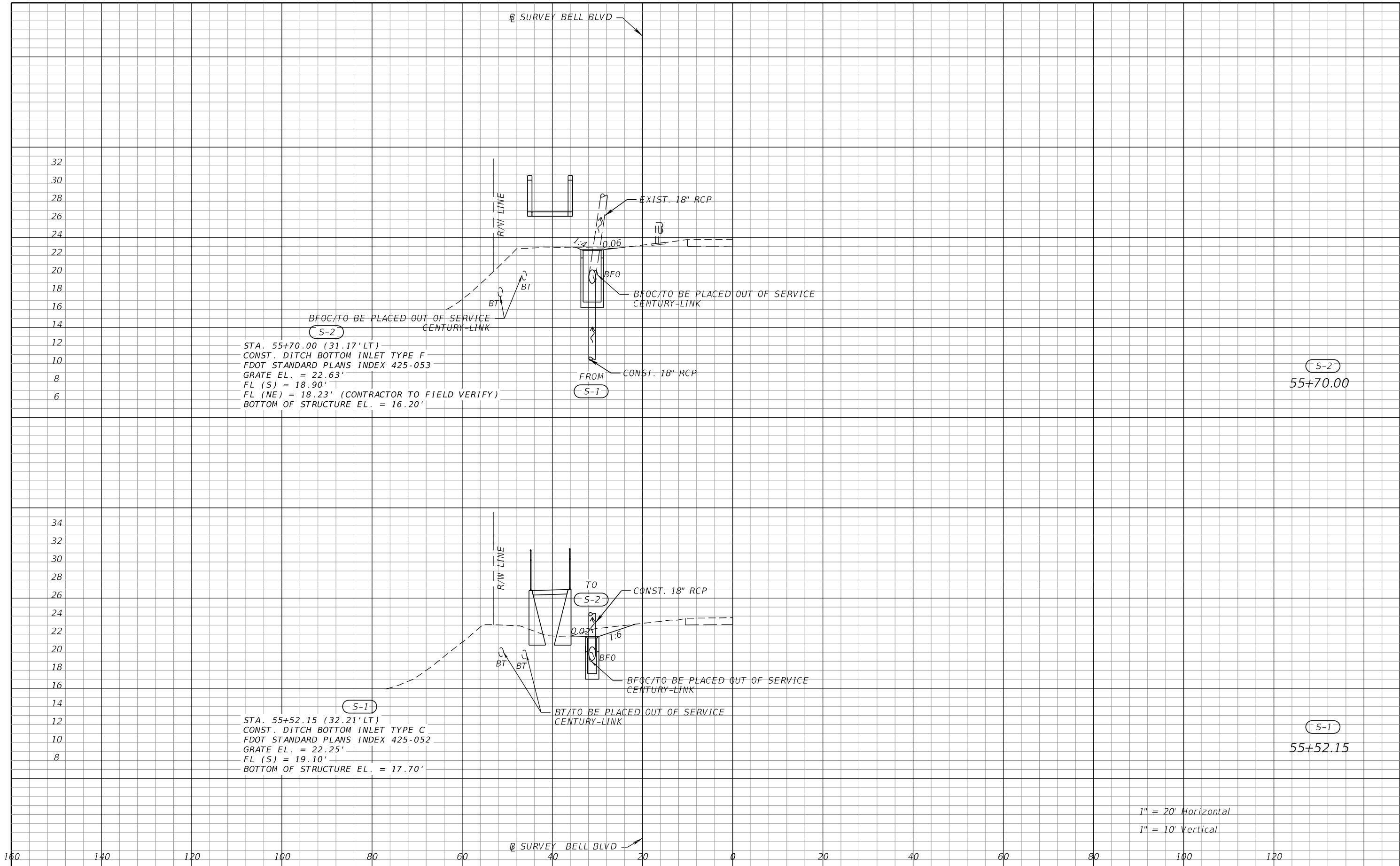


REVISIONS				PROPEL PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		PLAN AND PROFILE	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		23
					BELL BOULEVARD SIDEWALK. SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		

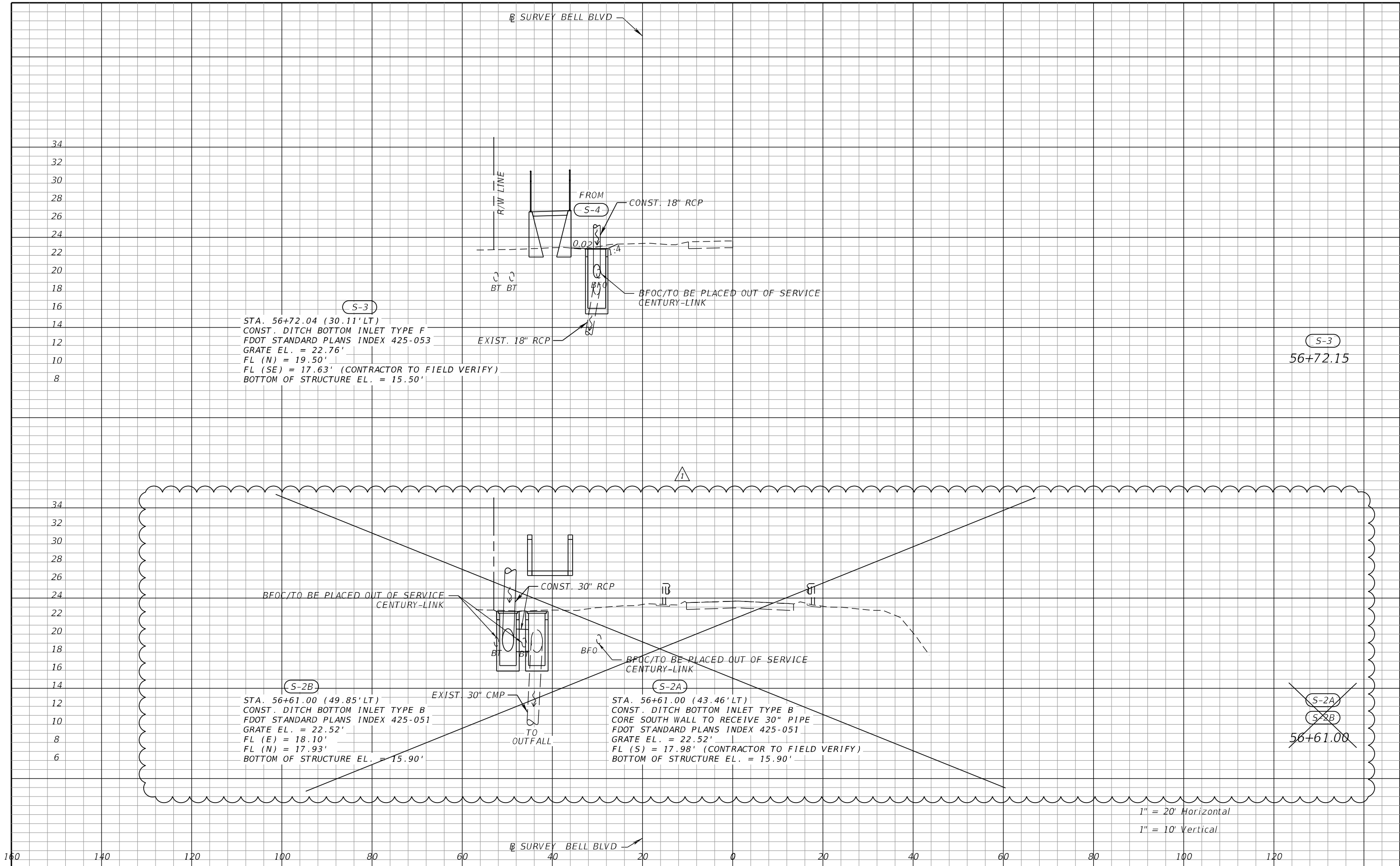


REVISIONS		PROPEL ENGINEERING, LLC.		LEE COUNTY		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION	ROAD NO.	FINANCIAL PROJECT NO.	
5/13/25	1. REMOVED DRAINAGE STRUCTURES S-2A AND S-2B, EXTENDED PIPE, AND REVISED LABELS			BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01	

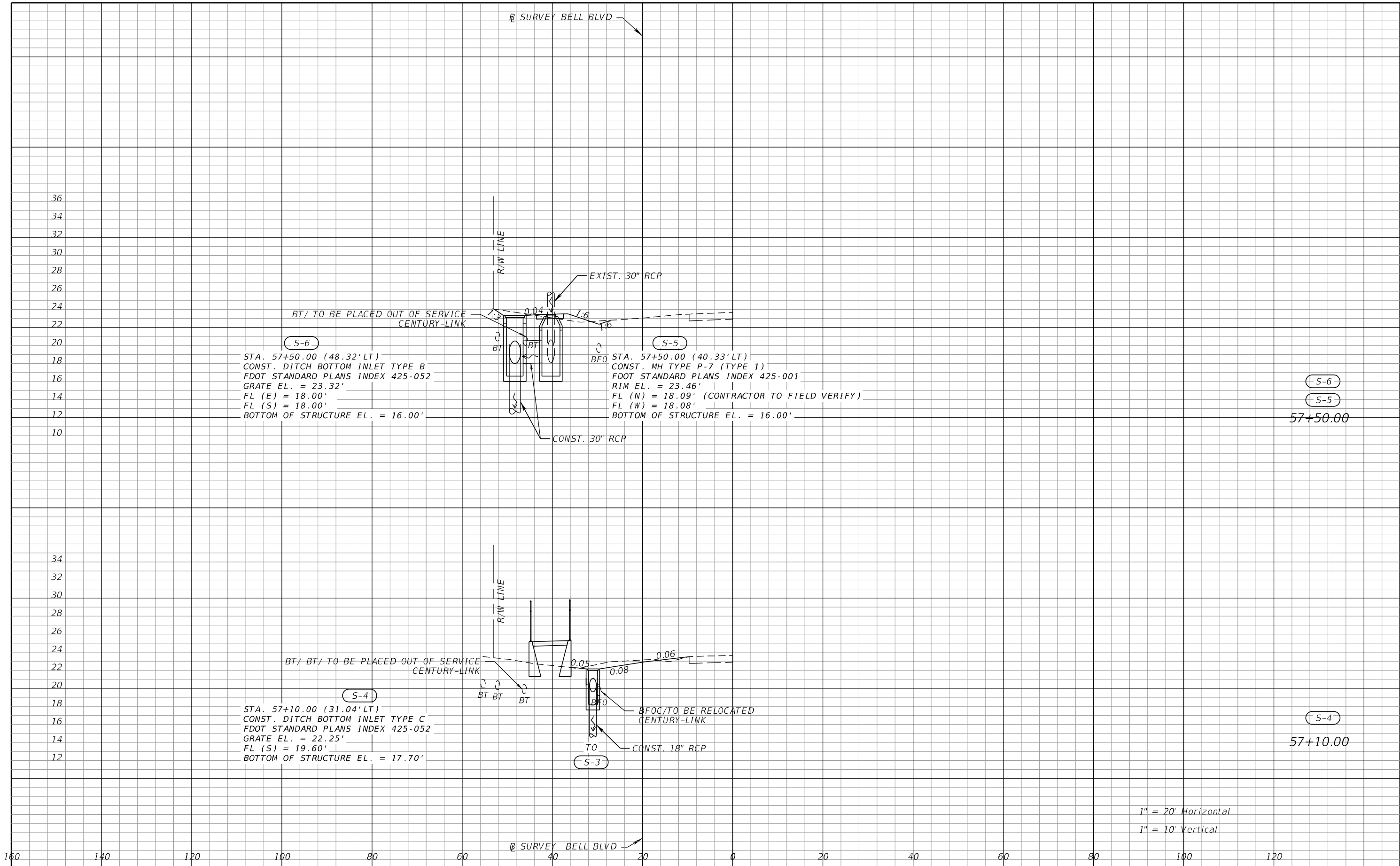
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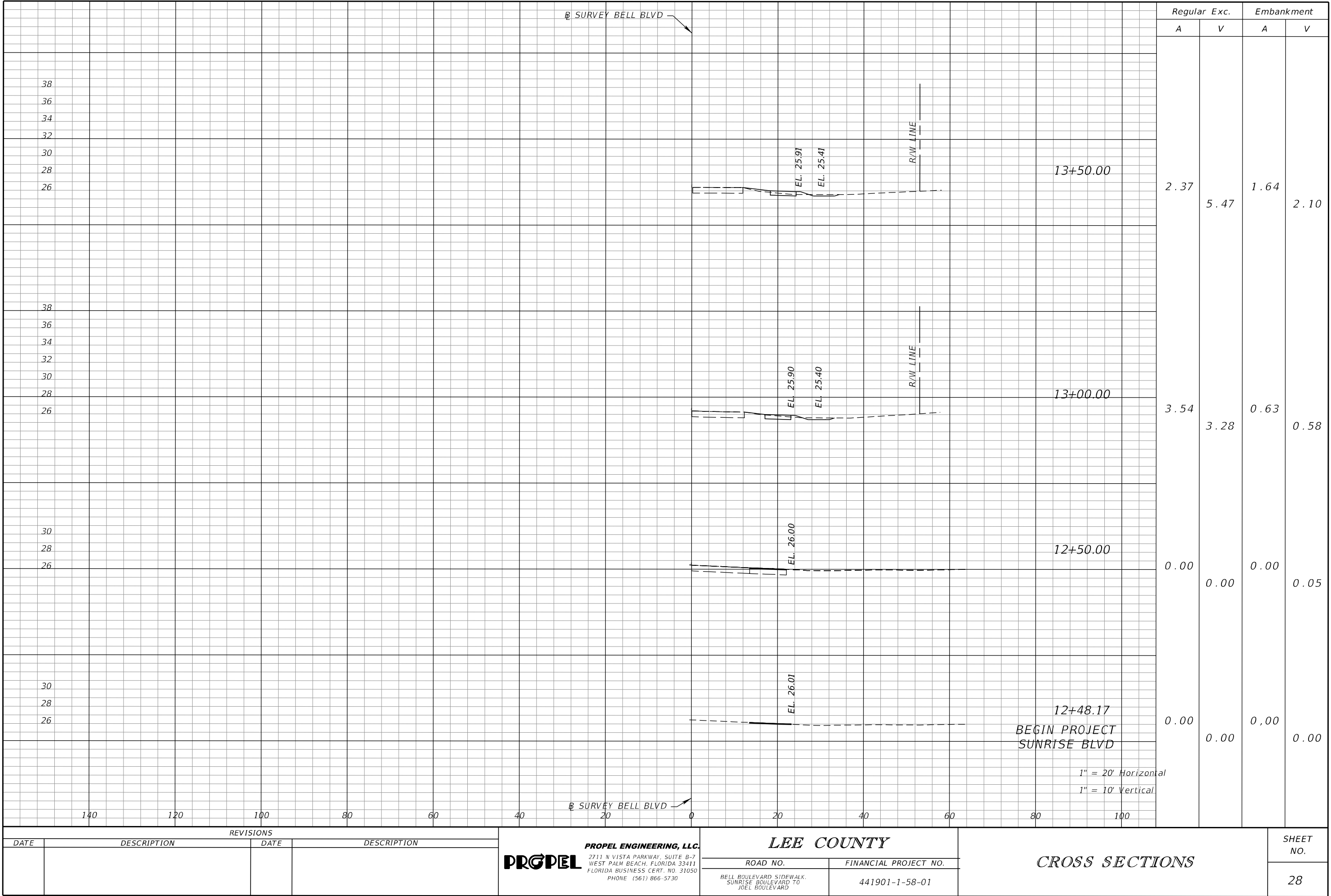
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		
					BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		



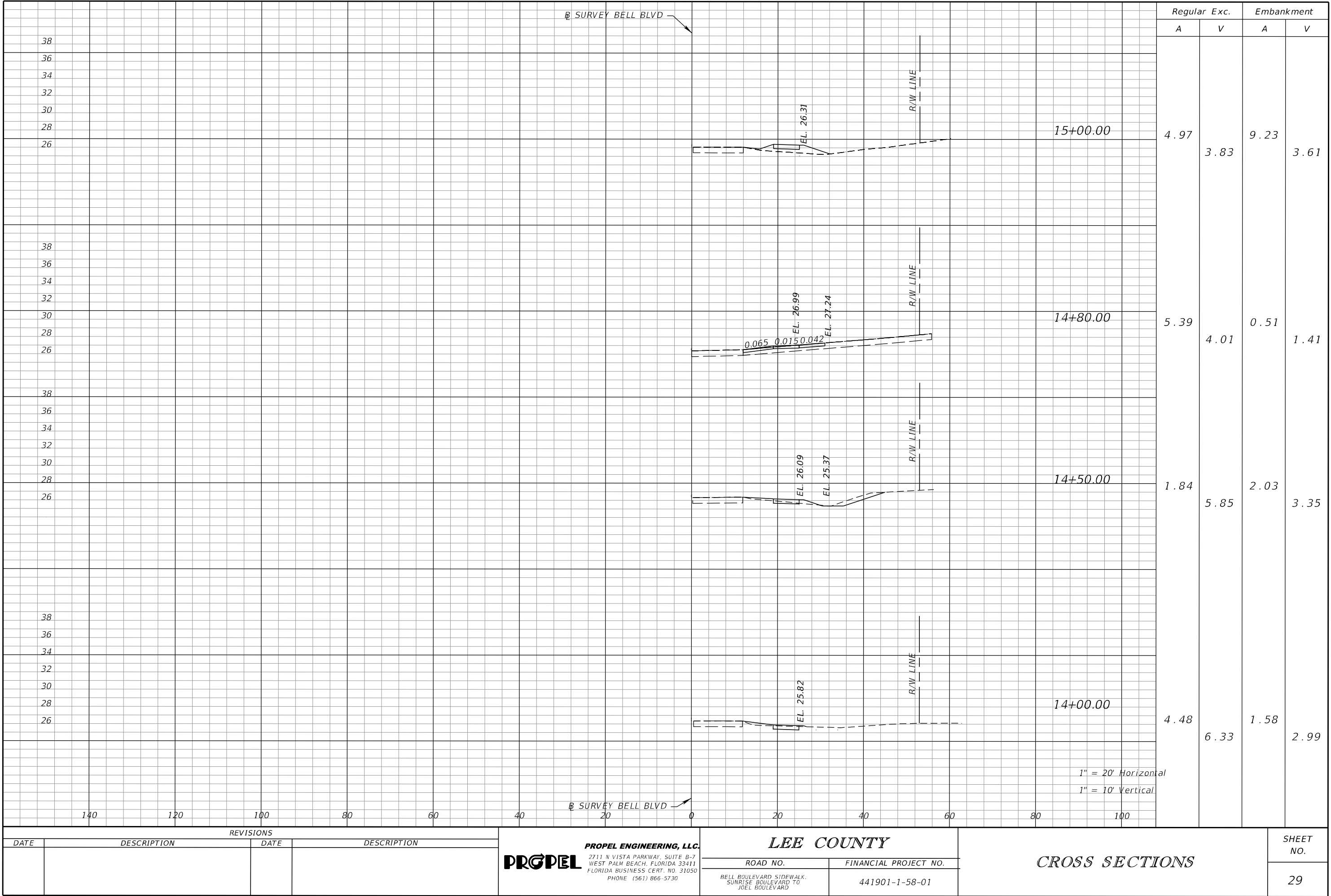
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		
5/13/25	1 REMOVED DRAINAGE STRUCTURES S-2A AND S-2B				BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		



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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		
					BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		



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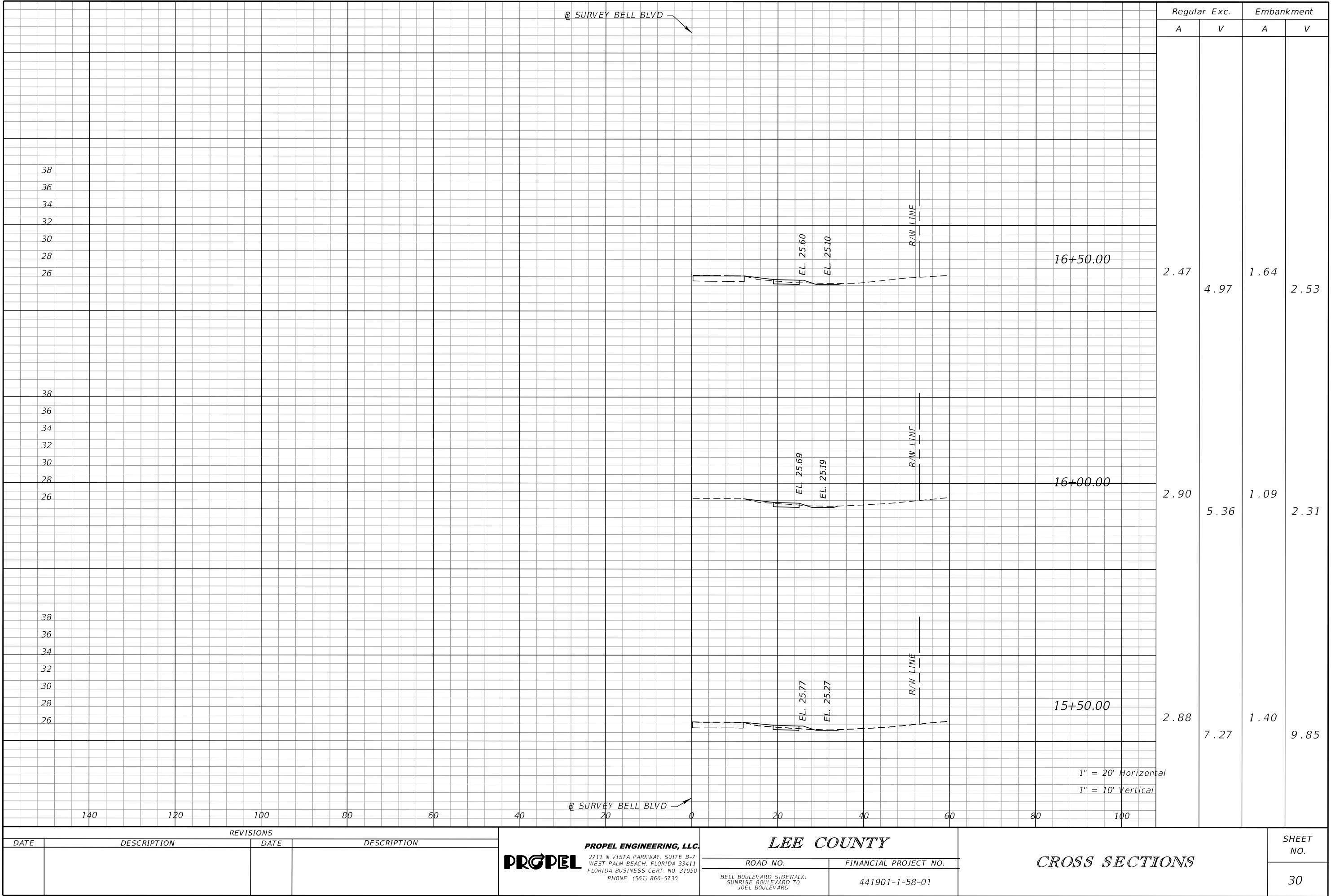
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DATE	DESCRIPTION	DATE	DESCRIPTION

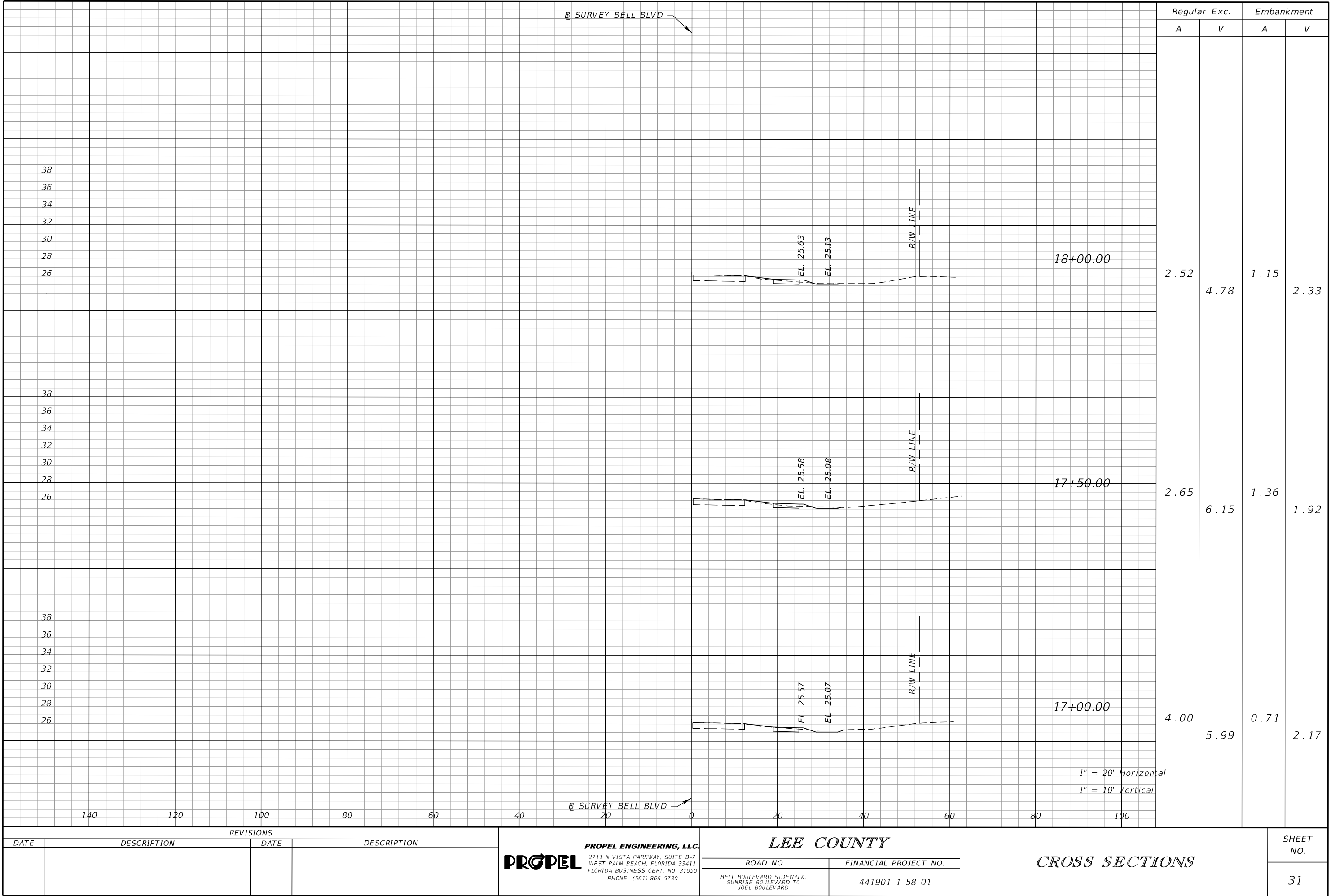
PROPEL ENGINEERING, LLC.
2711 N VISTA PARKWAY, SUITE B-7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

LEE COUNTY
ROAD NO.
FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK,
SUNRISE BOULEVARD TO
JOEL BOULEVARD
441901-1-58-01

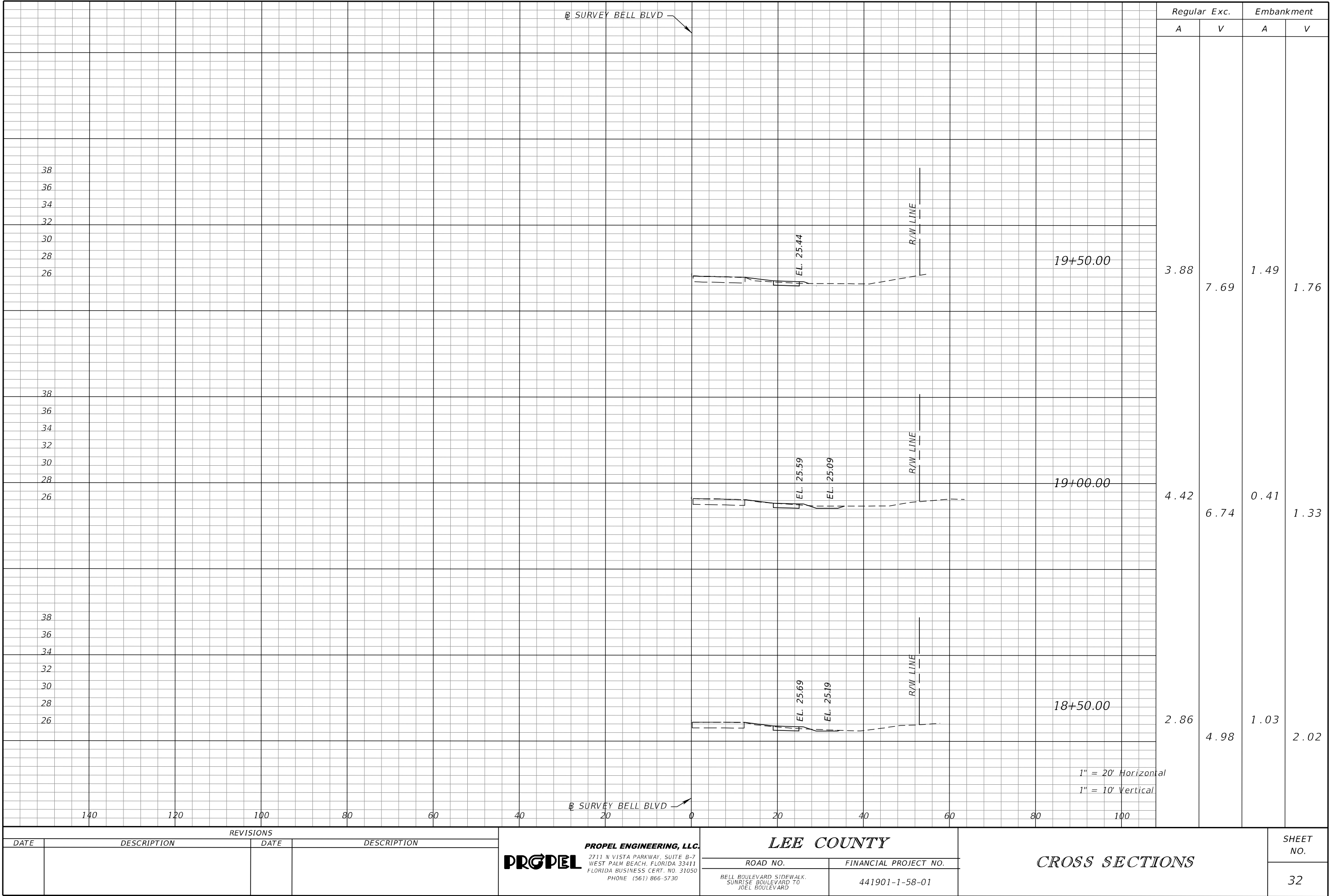
CROSS SECTIONS		SHEET NO.
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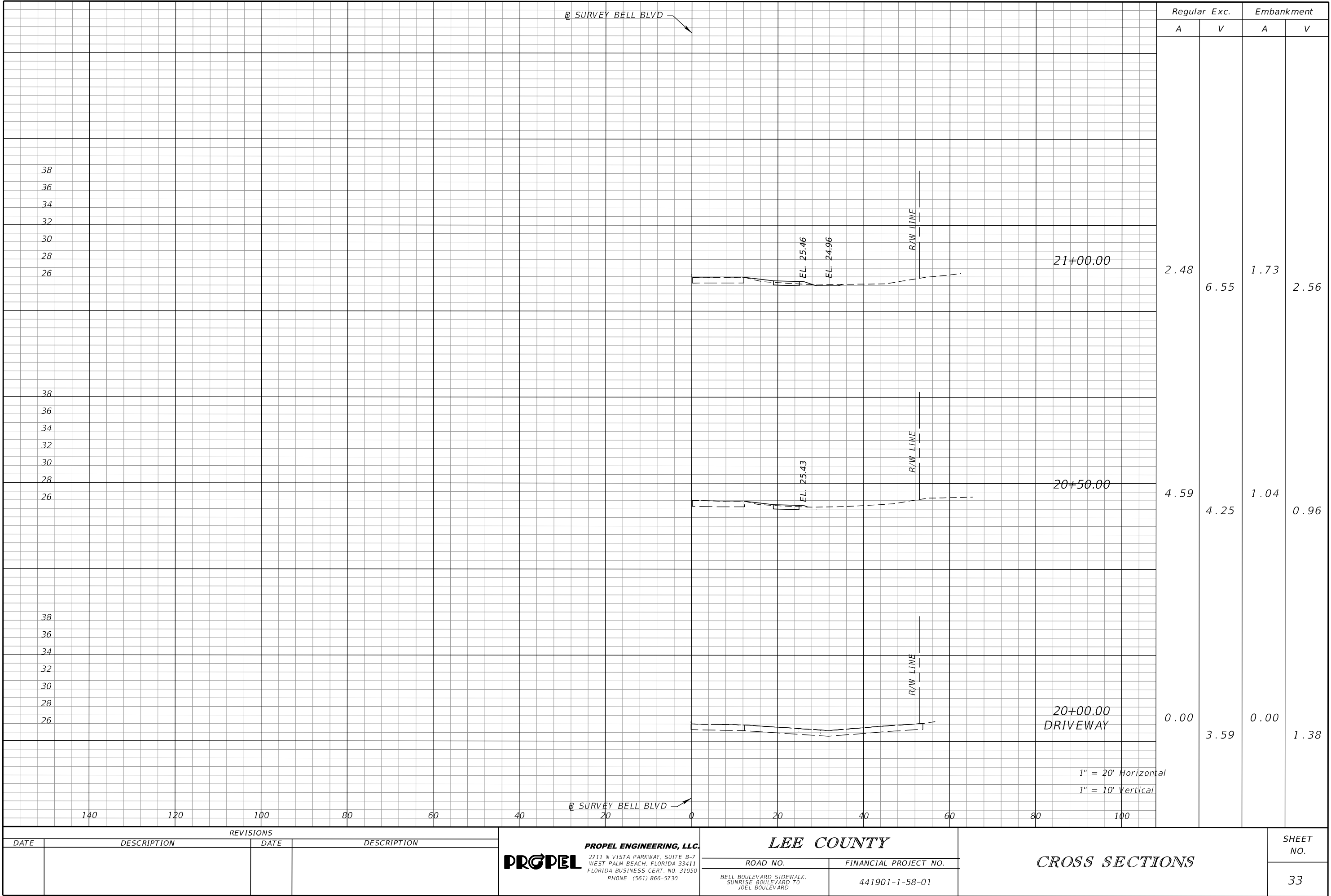
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PROPEL ENGINEERING, LLC.
2711 N VISTA PARKWAY, SUITE B-7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

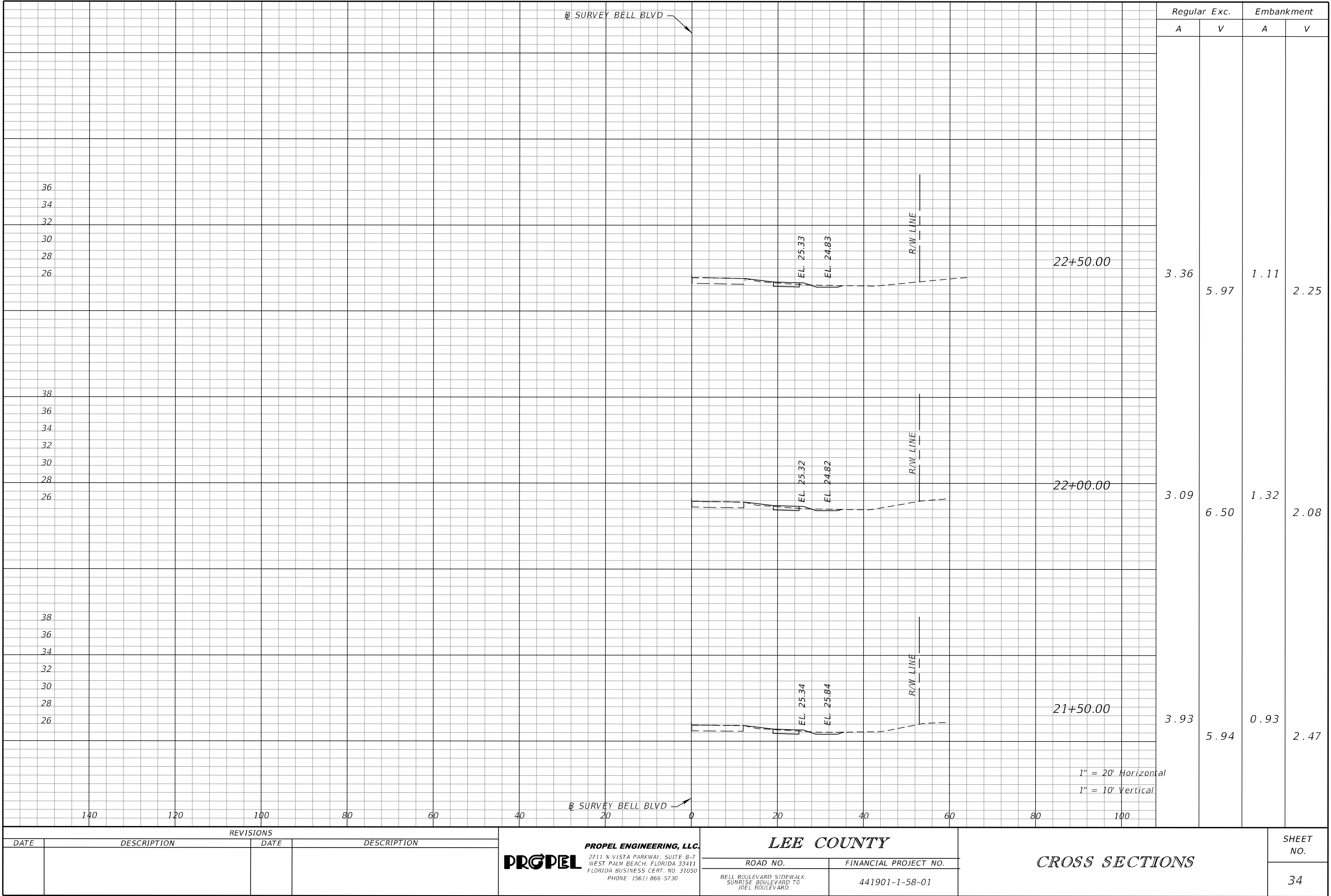
PROPEL

LEE COUNTY	
ROAD NO.	FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01

CROSS SECTIONS	

SHEET NO.
33

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PROPEL ENGINEERING, LLC.
2711 N VISTA PARKWAY, SUITE B-7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

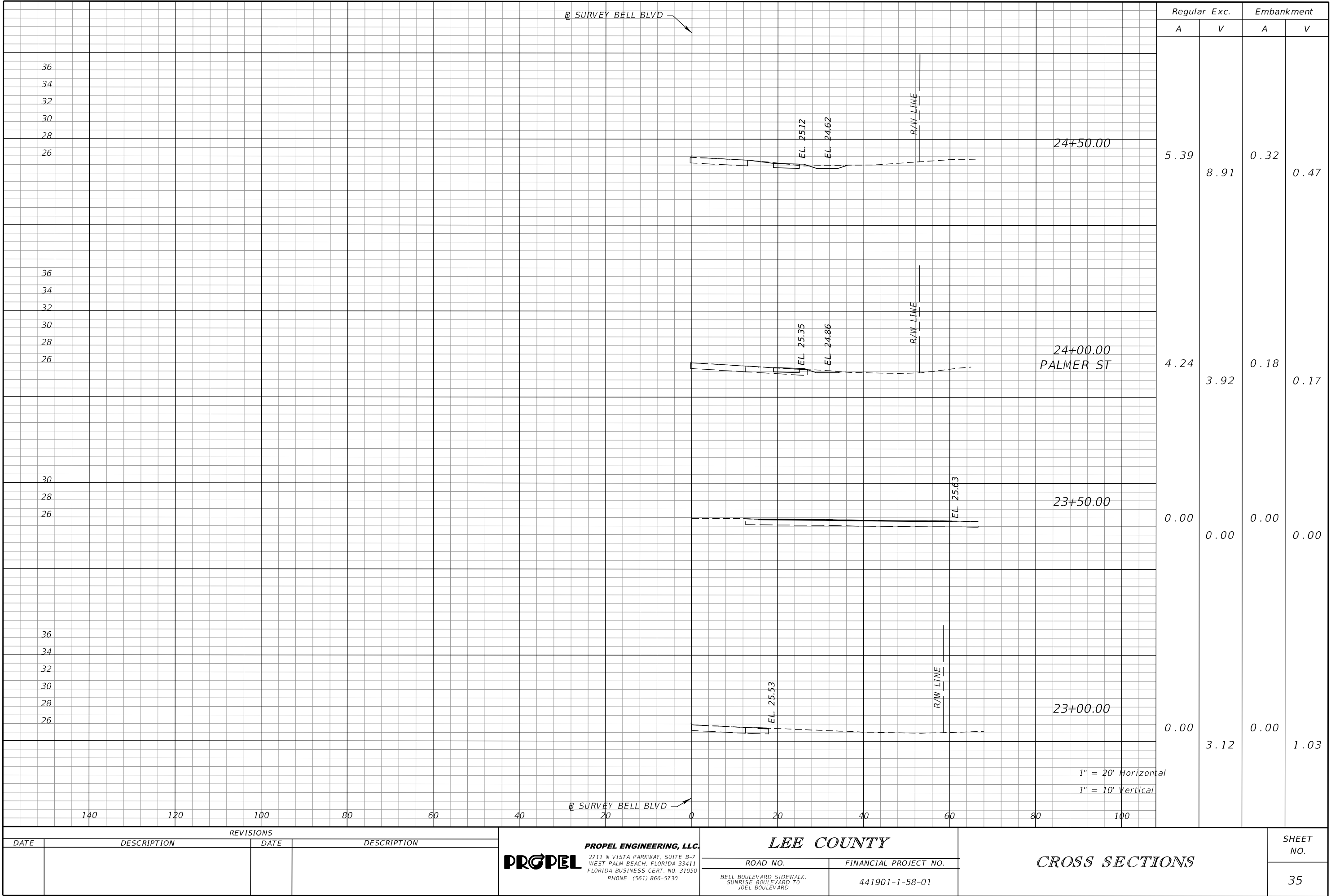
LEE COUNTY

ROAD NO.	FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01

CROSS SECTIONS

SHEET NO.
34

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REVISIONS			
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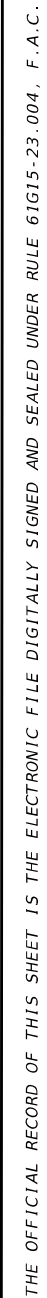
PROPEL
2711 N VISTA PARKWAY, SUITE B-7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

LEE COUNTY
ROAD NO.
FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK,
SUNRISE BOULEVARD TO
JOEL BOULEVARD
441901-1-58-01

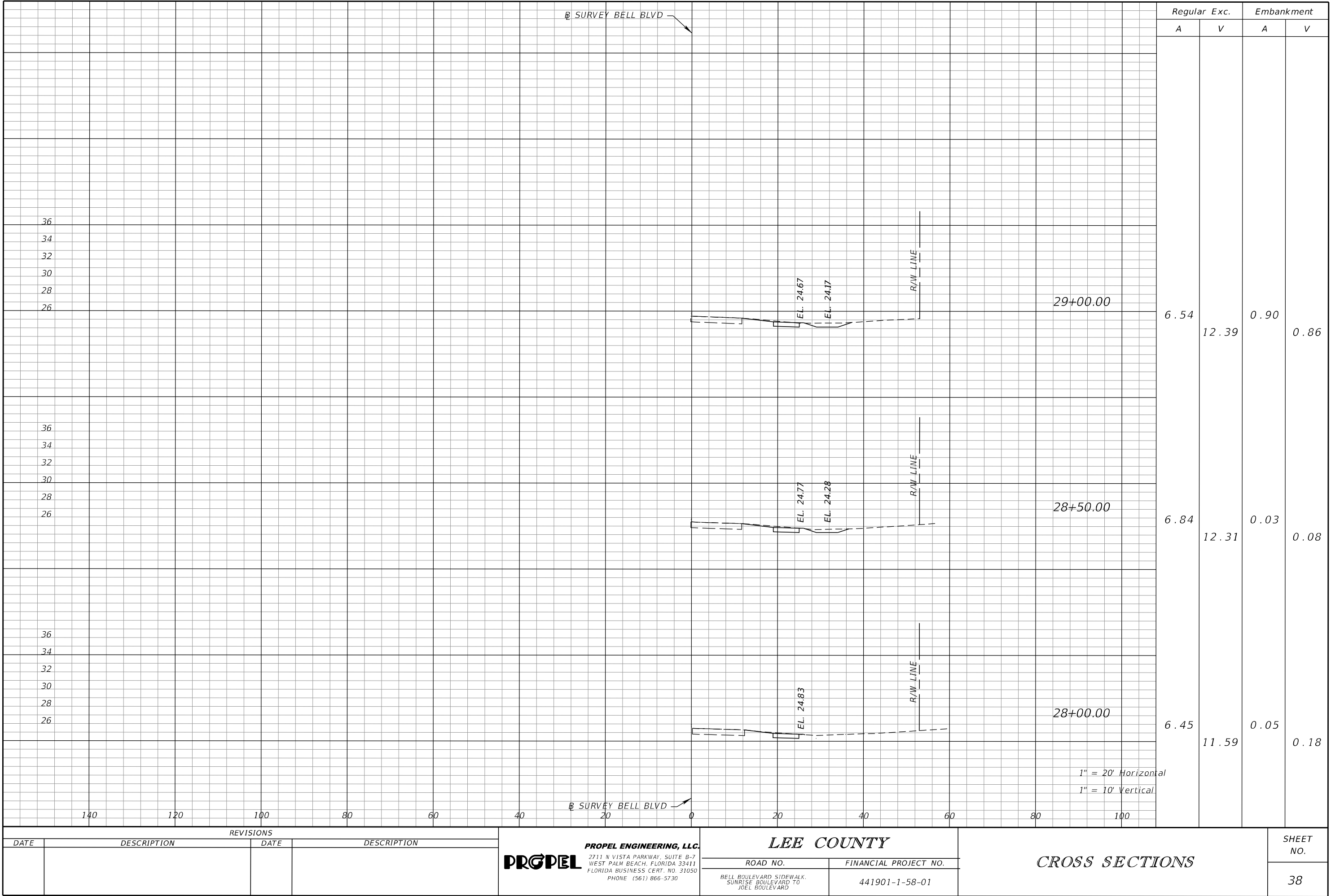
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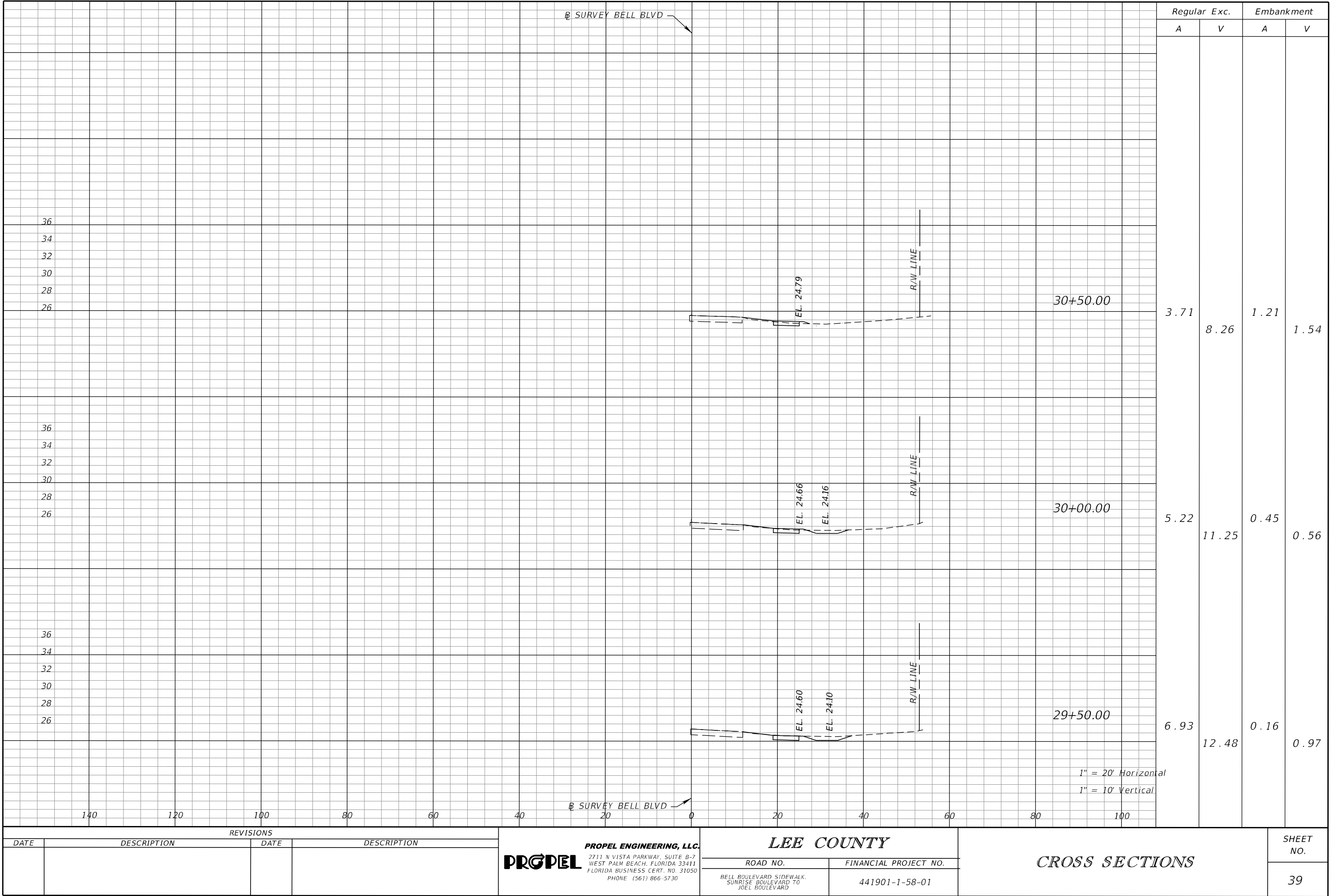
SHEET NO.
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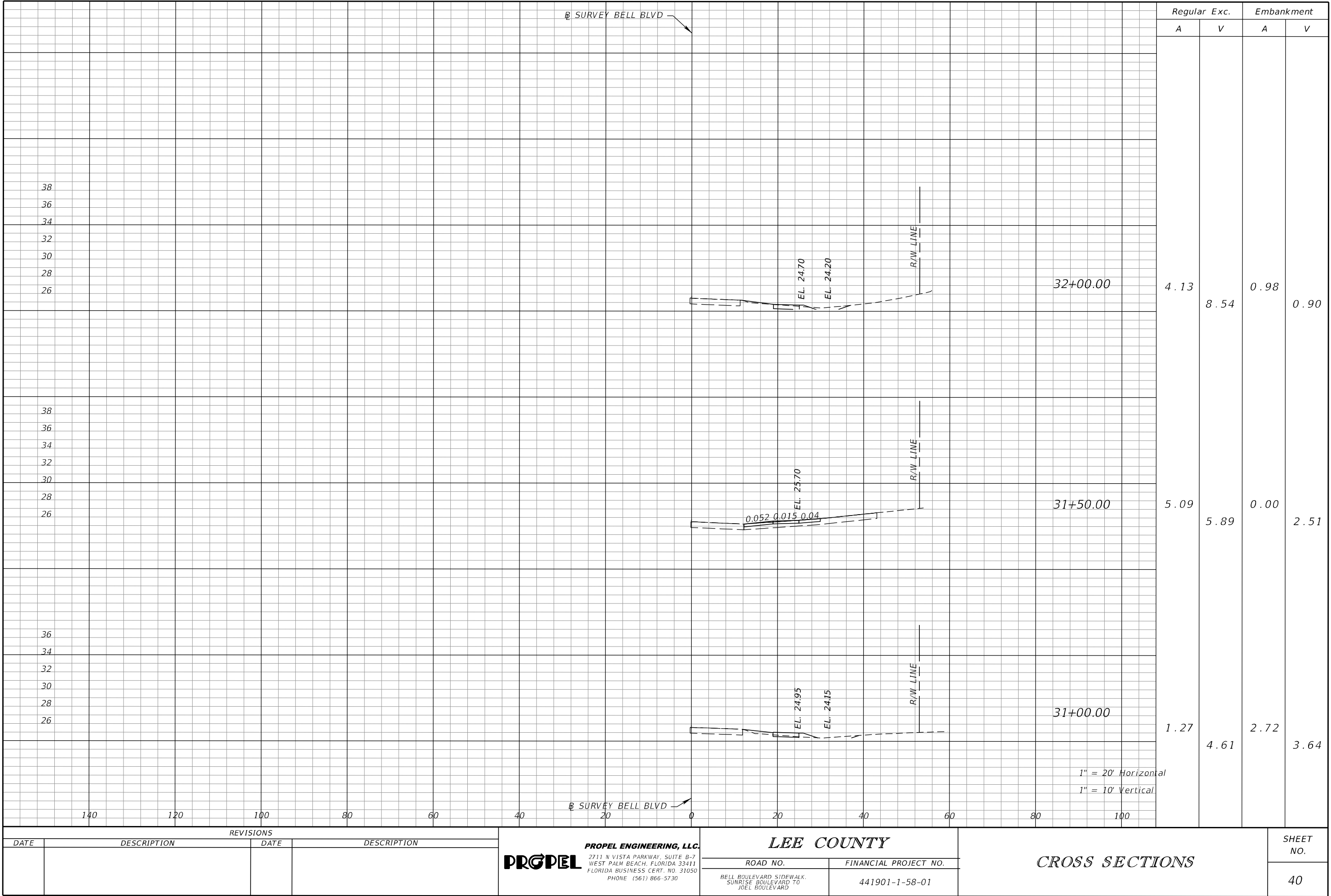


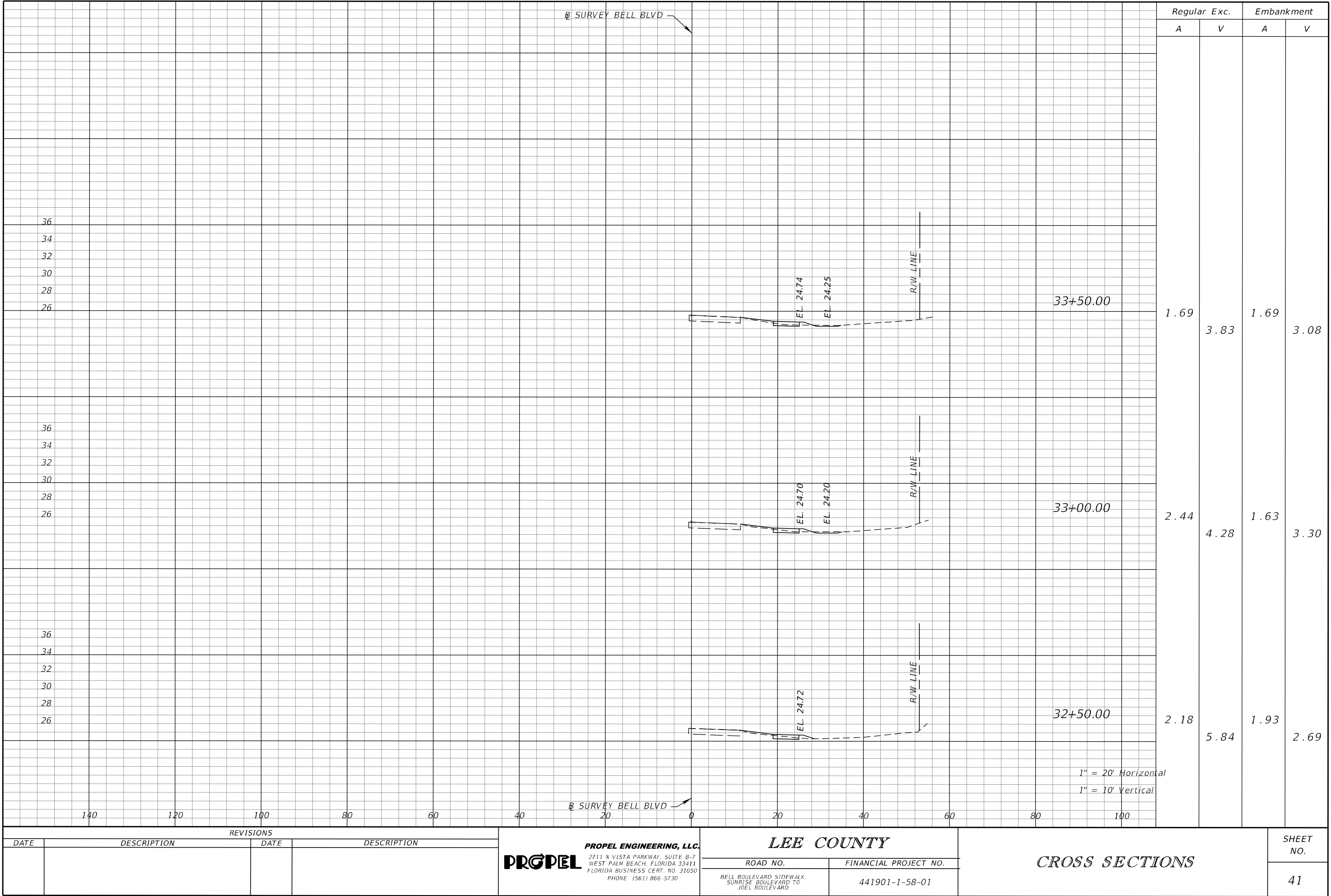




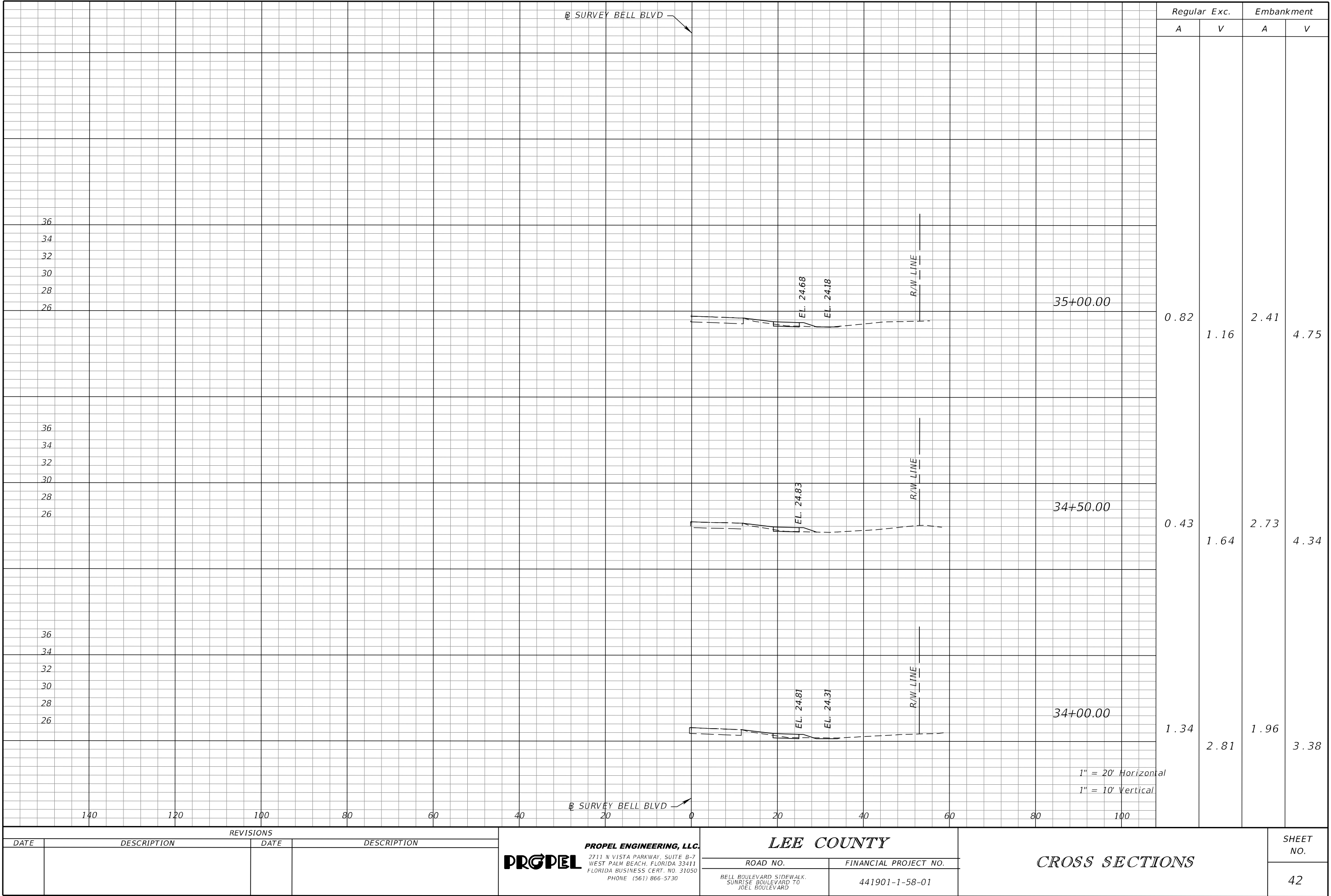


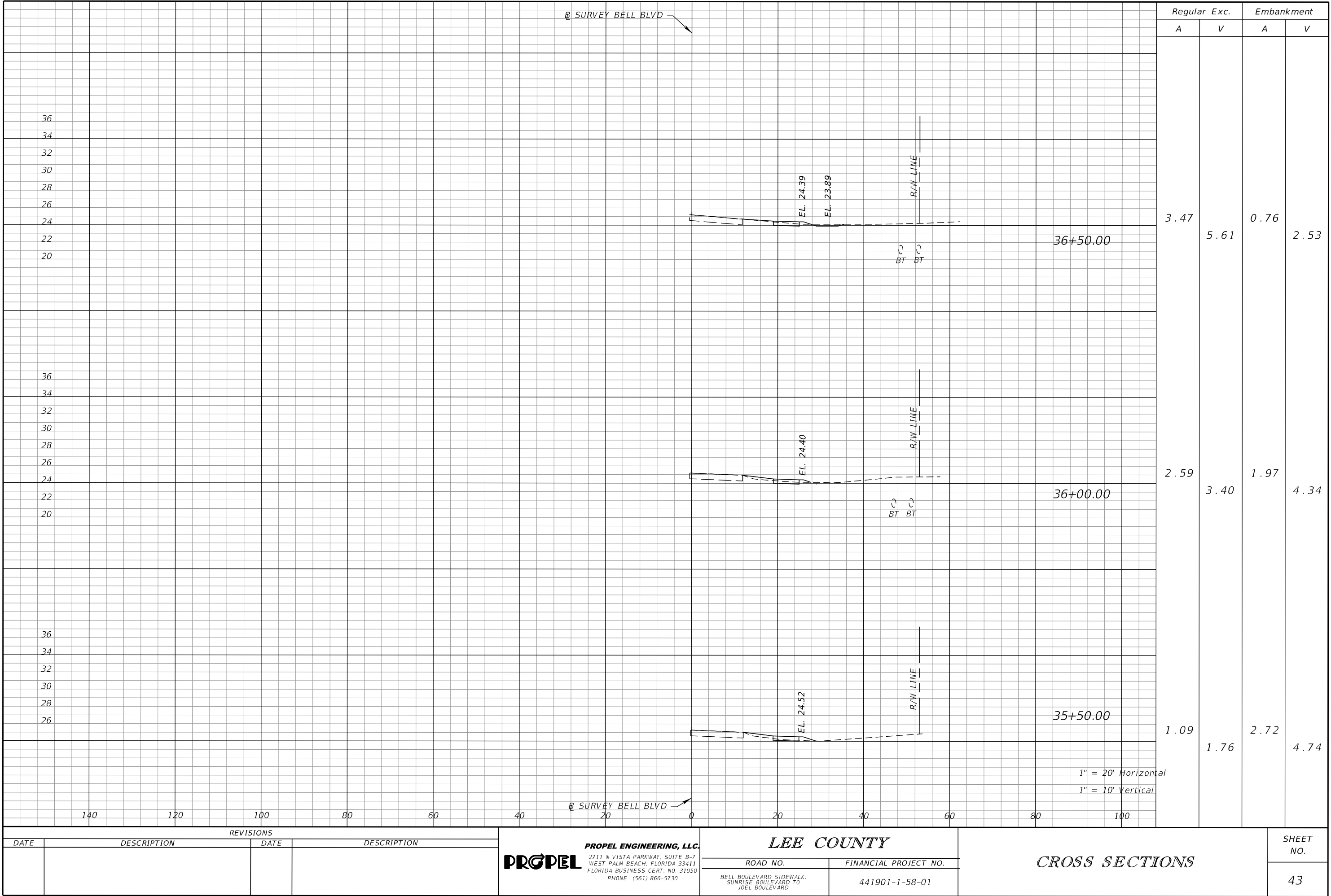
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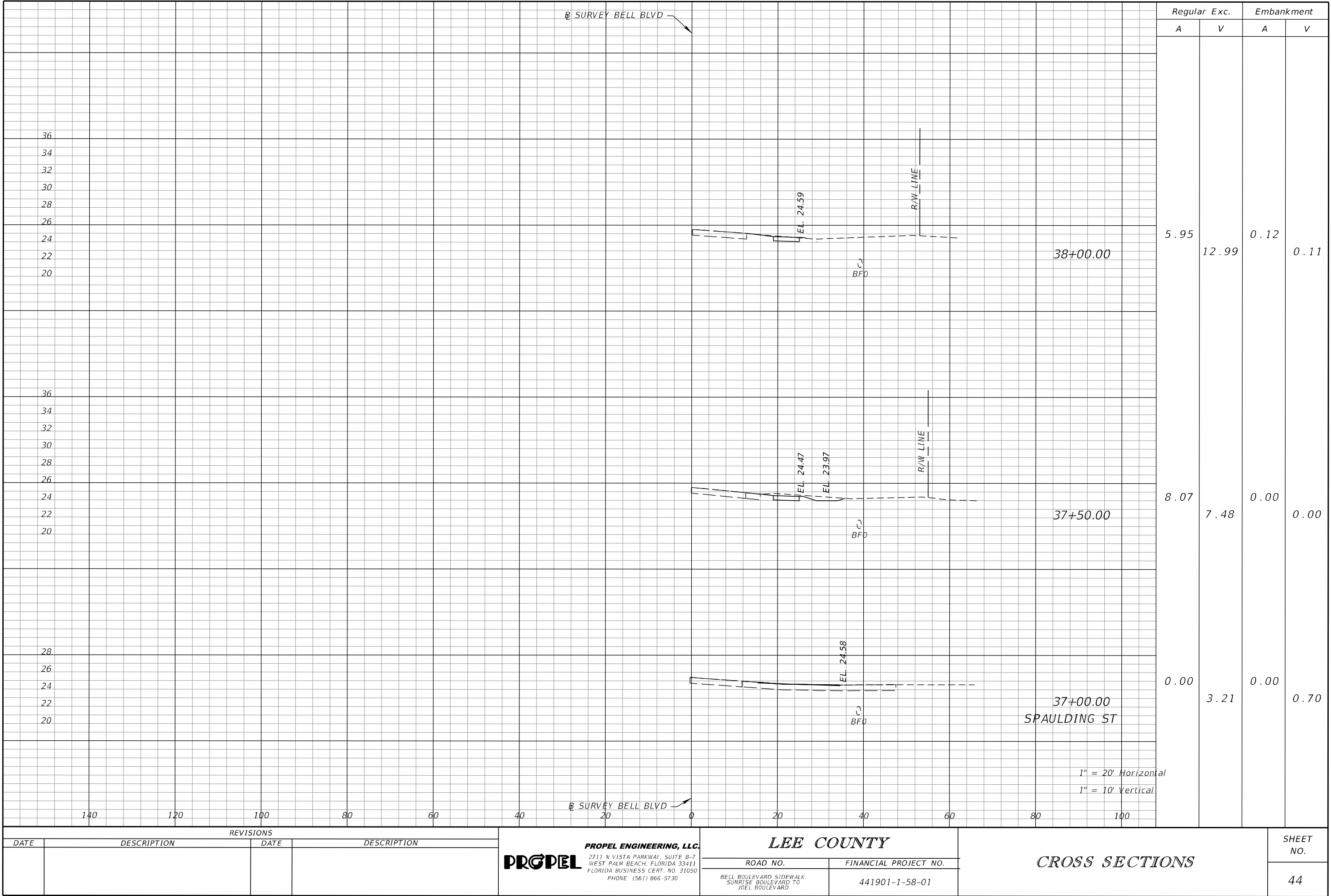
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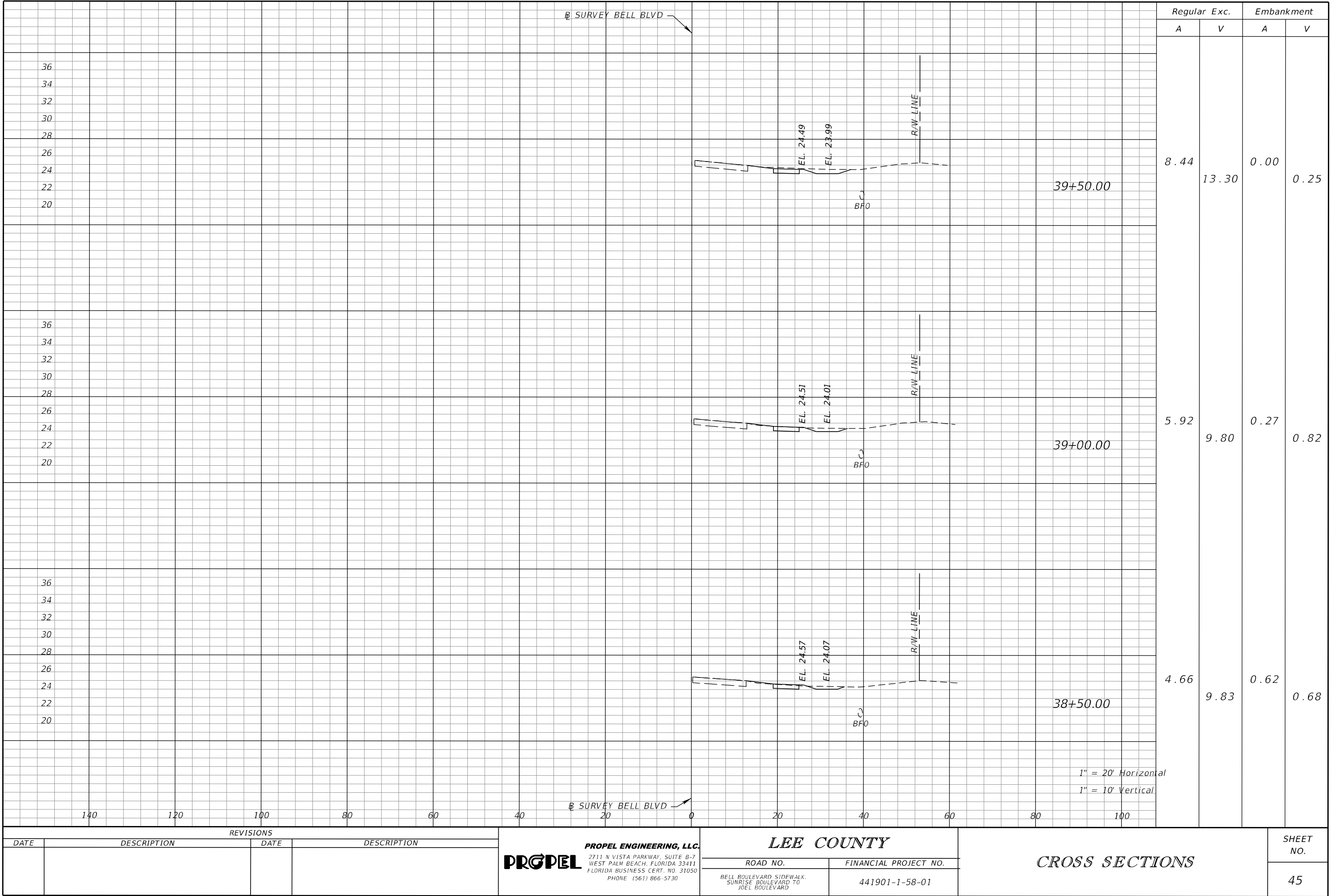


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REVISIONS				 PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		CROSS SECTIONS	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		43
					BELL BOULEVARD SIDEWALK. SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		



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Regular		Exc.	Embankment	
A		V	A	V

8.44	13.30	0.00	0.25
------	-------	------	------

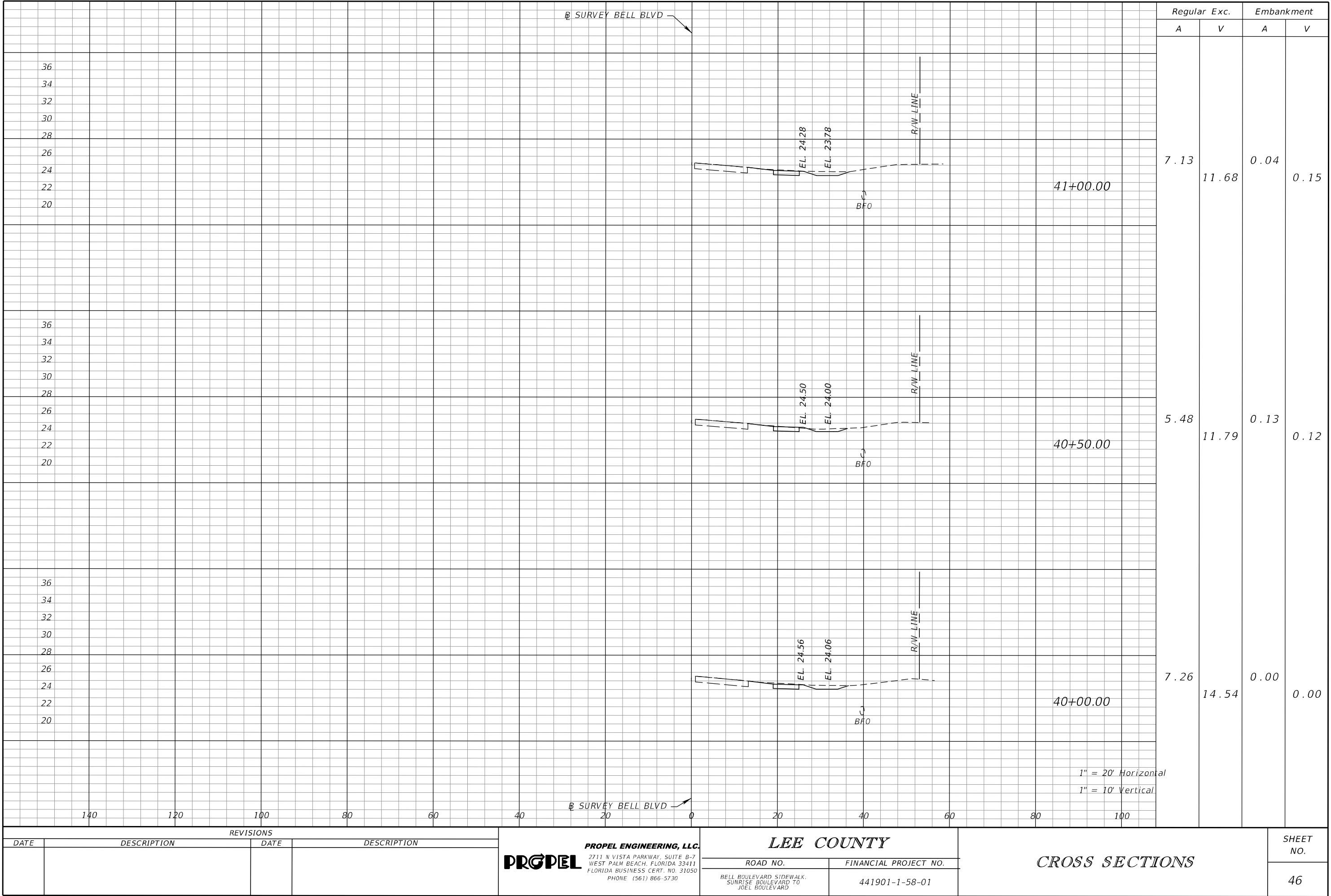
5.92	9.80	0.27	0.82
------	------	------	------

4.66	9.83	0.62	0.68
------	------	------	------

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

REVISIONS				PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		CROSS SECTIONS		SHEET NO.
DATE	DESCRIPTION		DATE		ROAD NO.	FINANCIAL PROJECT NO.			
					BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01			45

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Regular Exc. Embankment

A V A V

7.13 11.68 0.04 0.15

5.48 11.79 0.13 0.12

7.26 14.54 0.00 0.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

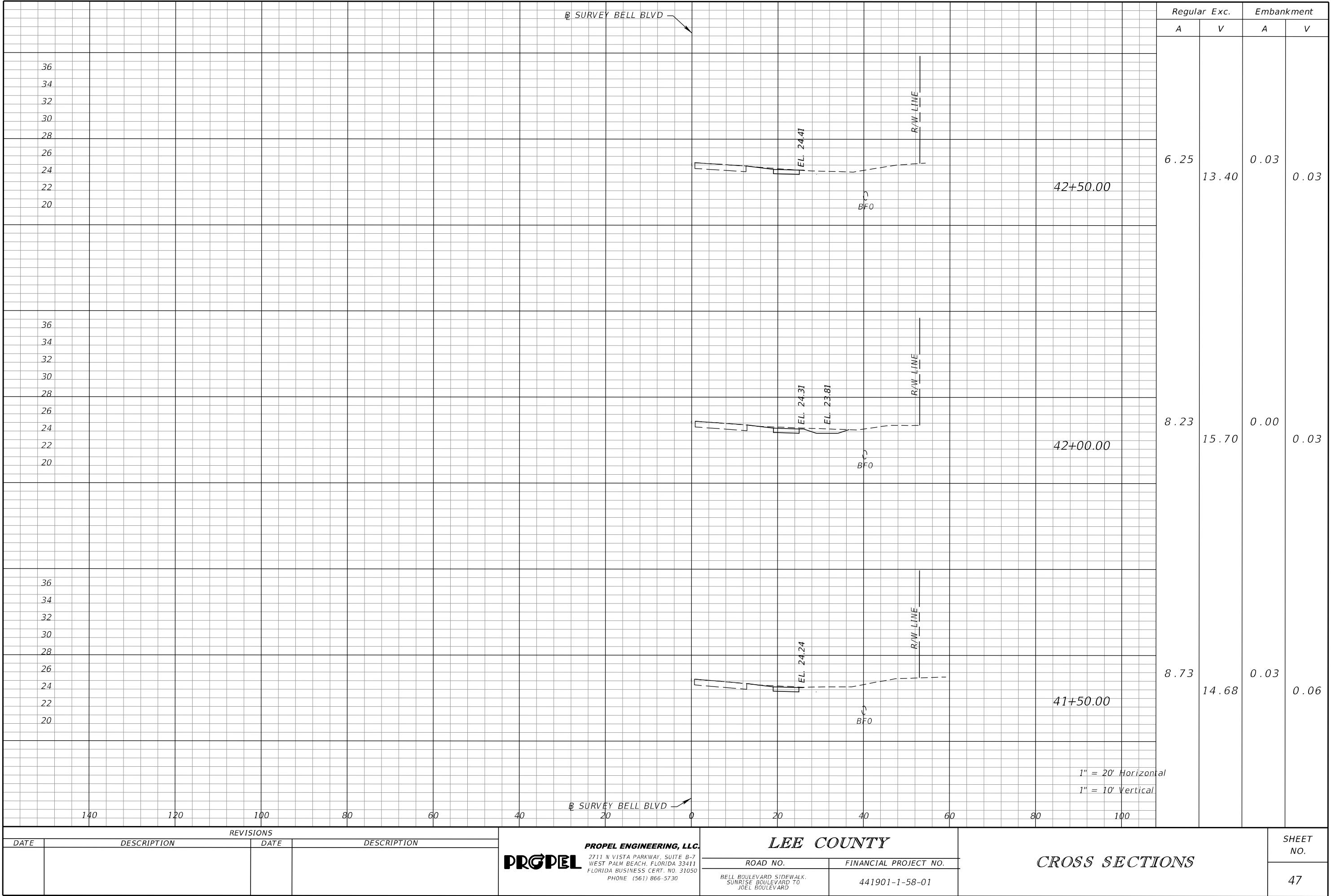
PROPEL
2711 N VISTA PARKWAY, SUITE B-7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

LEE COUNTY	
ROAD NO.	FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01

CROSS SECTIONS	

SHEET NO.
46

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Regular Exc. Embankment

A V A V

6.25 13.40 0.03 0.03

42+50.00

8.23 15.70 0.00 0.03

42+00.00

8.73 14.68 0.03 0.06

41+50.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

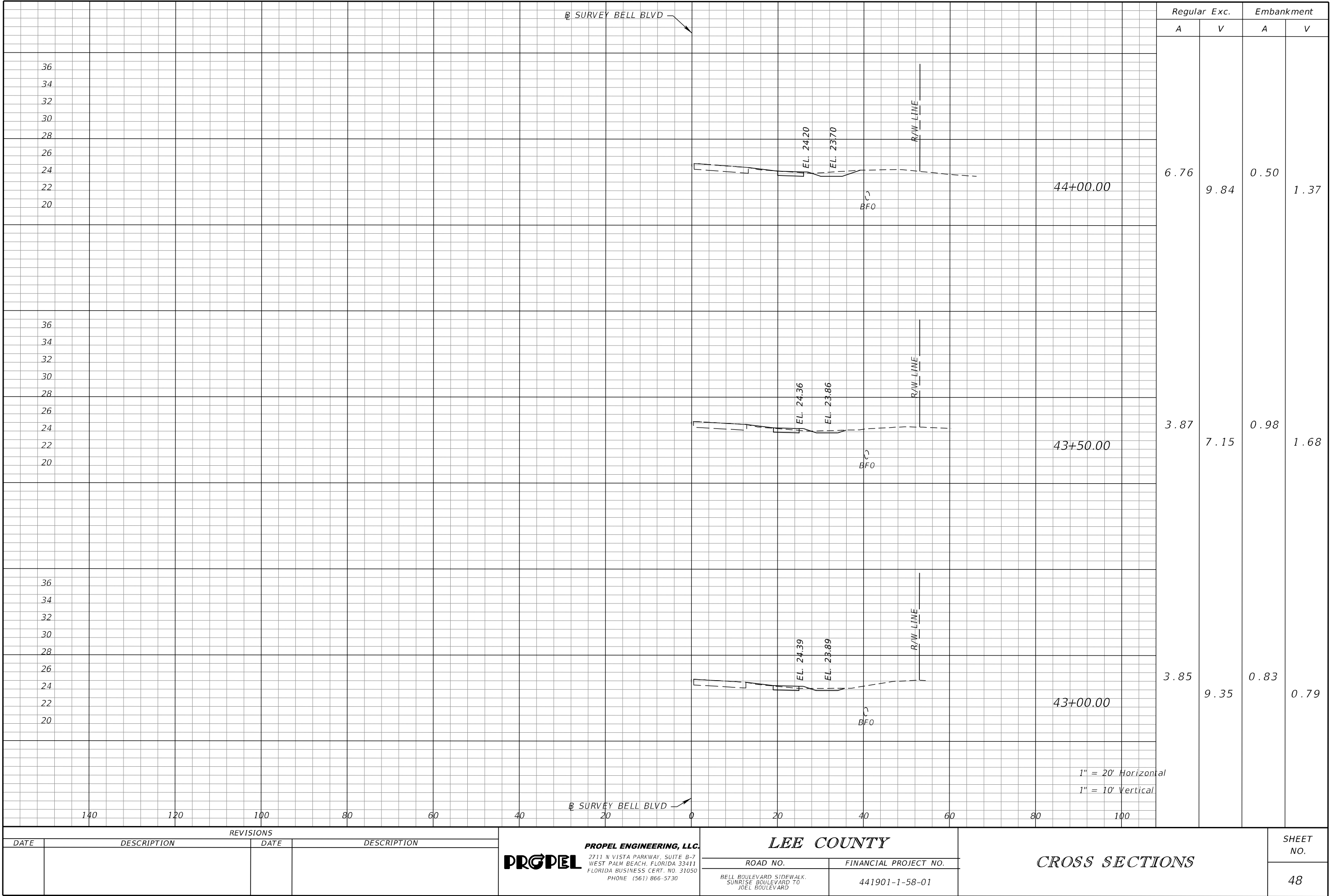
PROPEL
2711 N VISTA PARKWAY, SUITE B-7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

LEE COUNTY	
ROAD NO.	FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01

CROSS SECTIONS	

SHEET NO.
47

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Regular Exc. Embankment

A V A V

6.76 9.84 0.50 1.37

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1" = 20' Horizontal
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REVISIONS			
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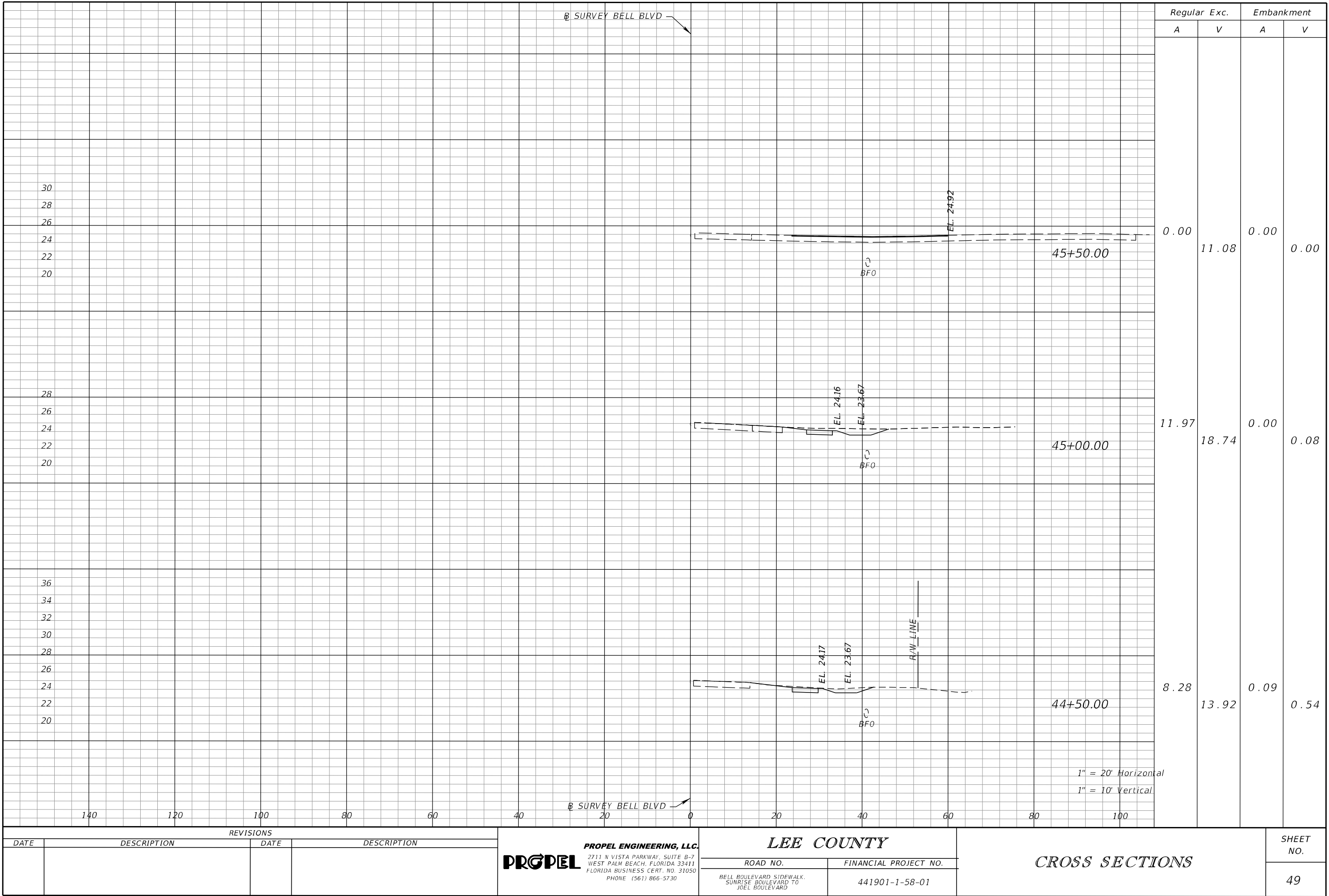
PROPEL
2711 N VISTA PARKWAY, SUITE B-7
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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

LEE COUNTY	
ROAD NO.	FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01

CROSS SECTIONS	

SHEET NO.
48

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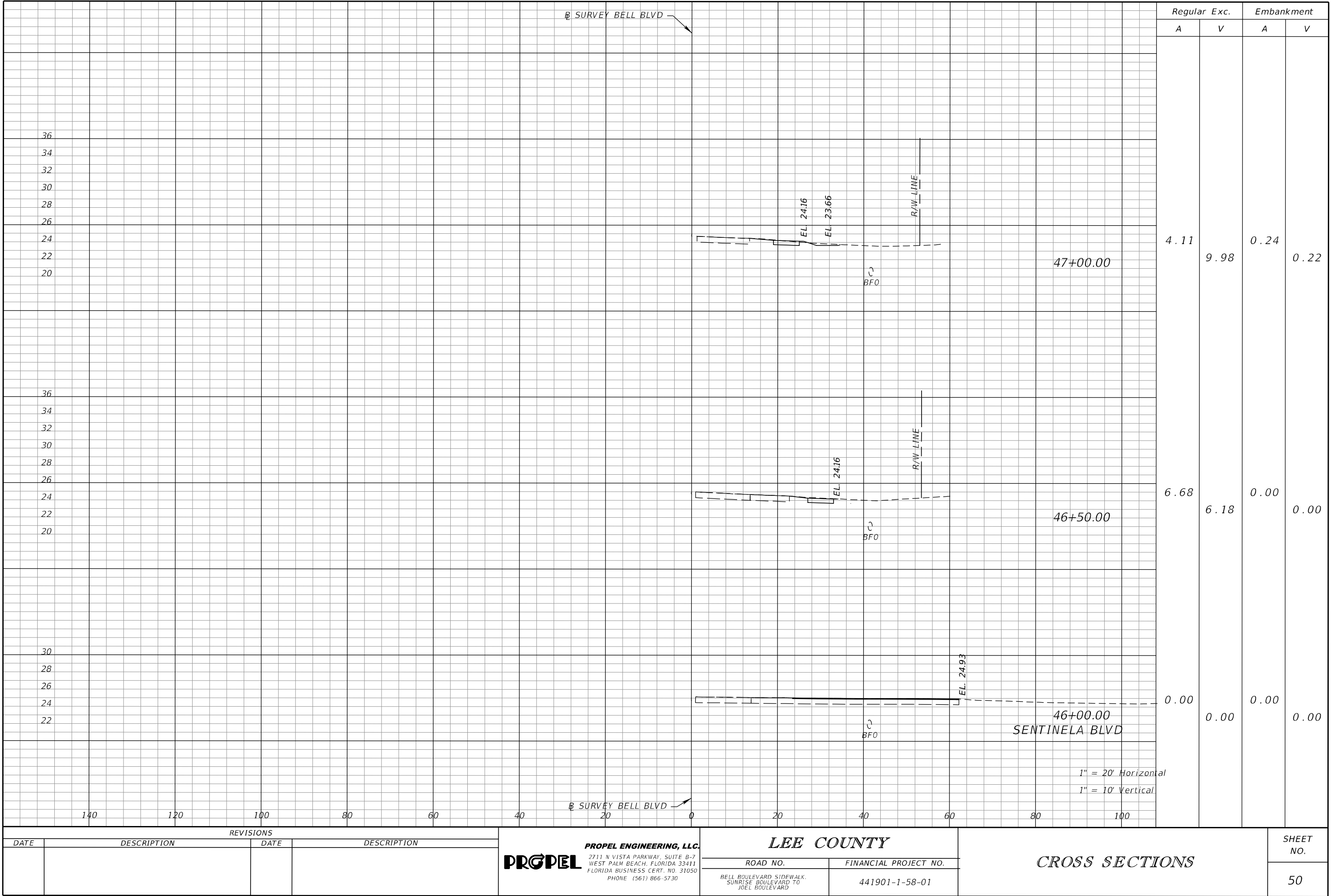
PROPEL ENGINEERING, LLC.
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LEE COUNTY	
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CROSS SECTIONS	

SHEET NO.
49

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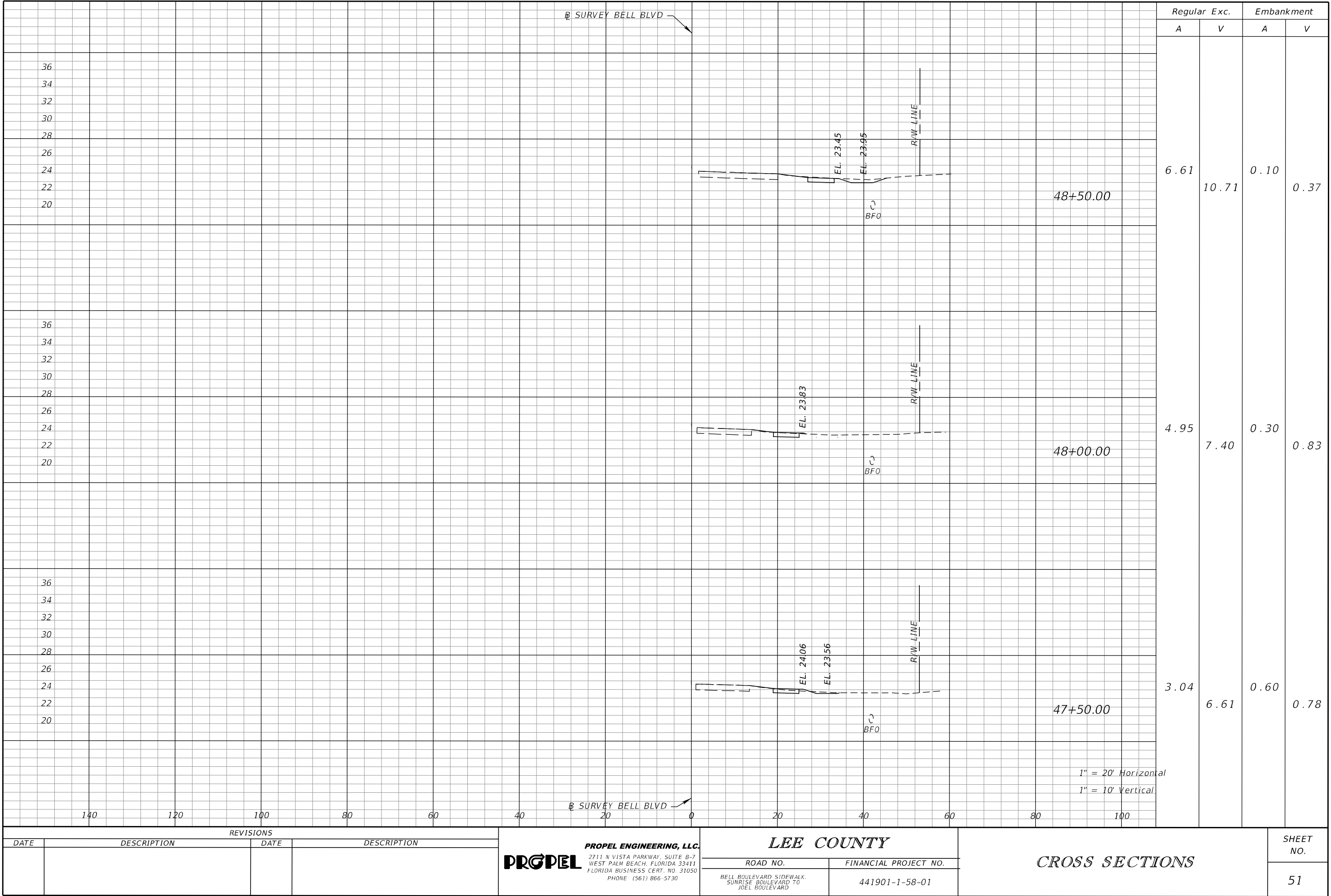
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LEE COUNTY	
ROAD NO.	FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01

CROSS SECTIONS	

SHEET NO.
50

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Regular		Exc.	Embankment	
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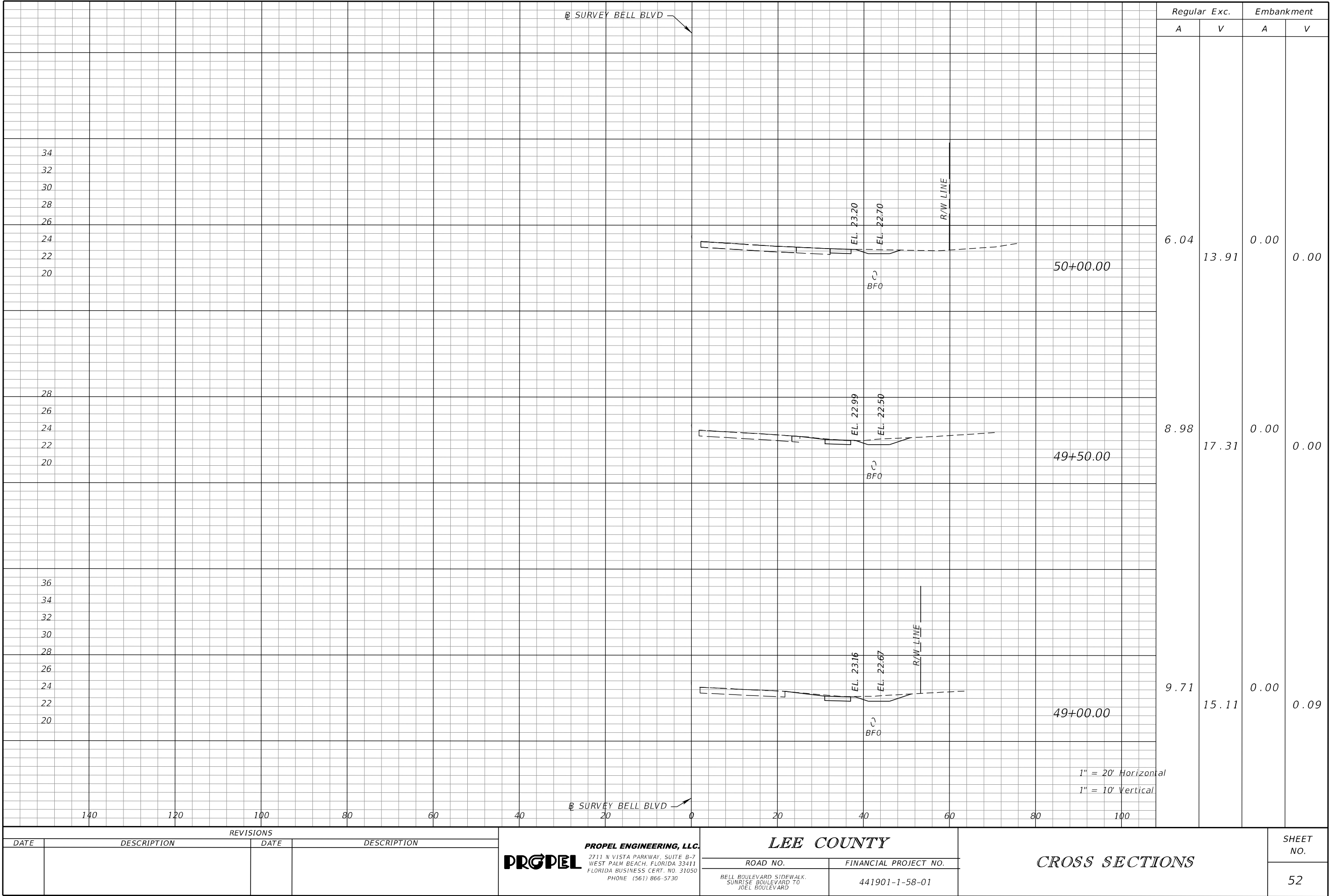
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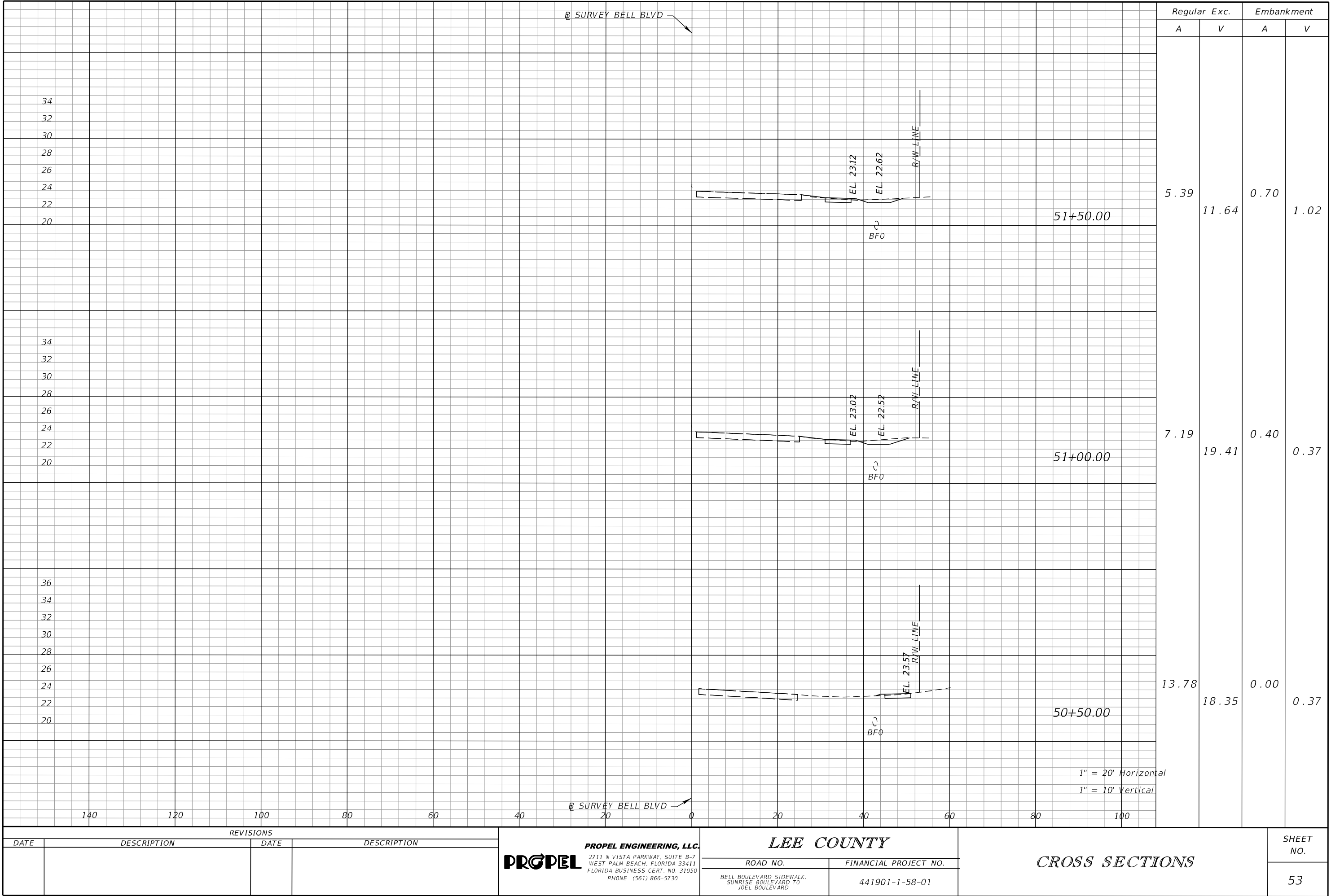
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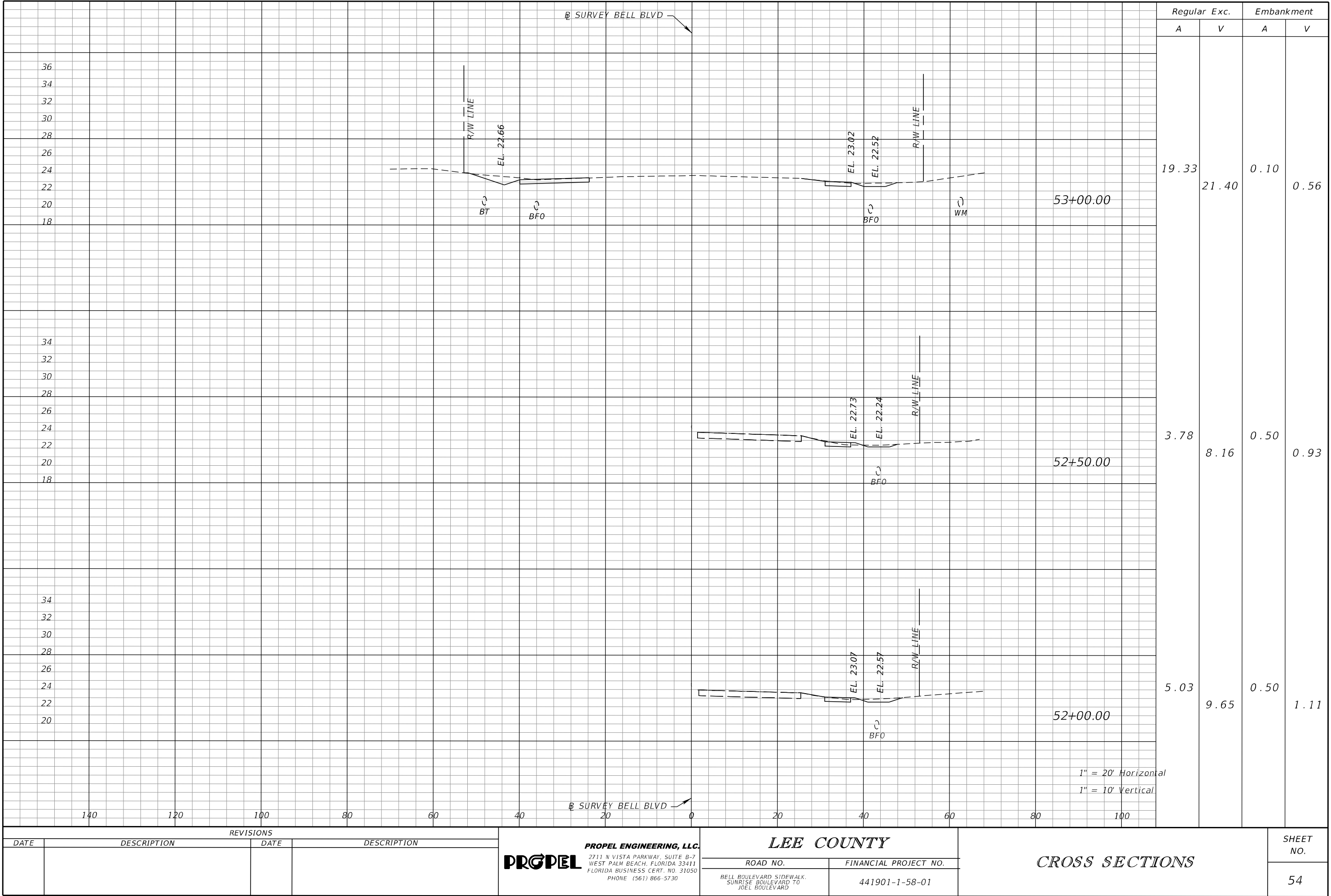
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		51
					BELL BOULEVARD, SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		

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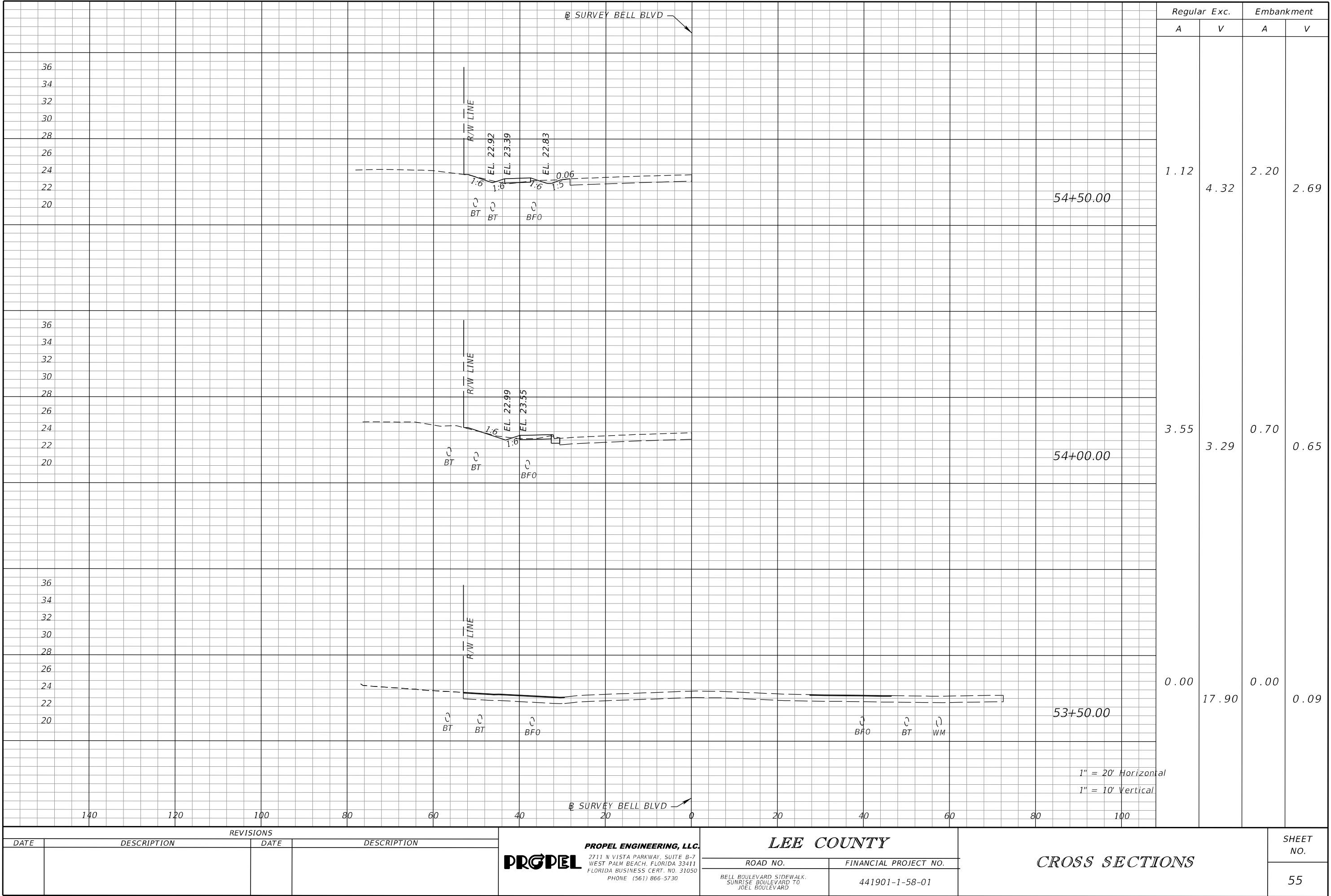
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LEE COUNTY	
ROAD NO.	FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01

CROSS SECTIONS	
SHEET NO.	
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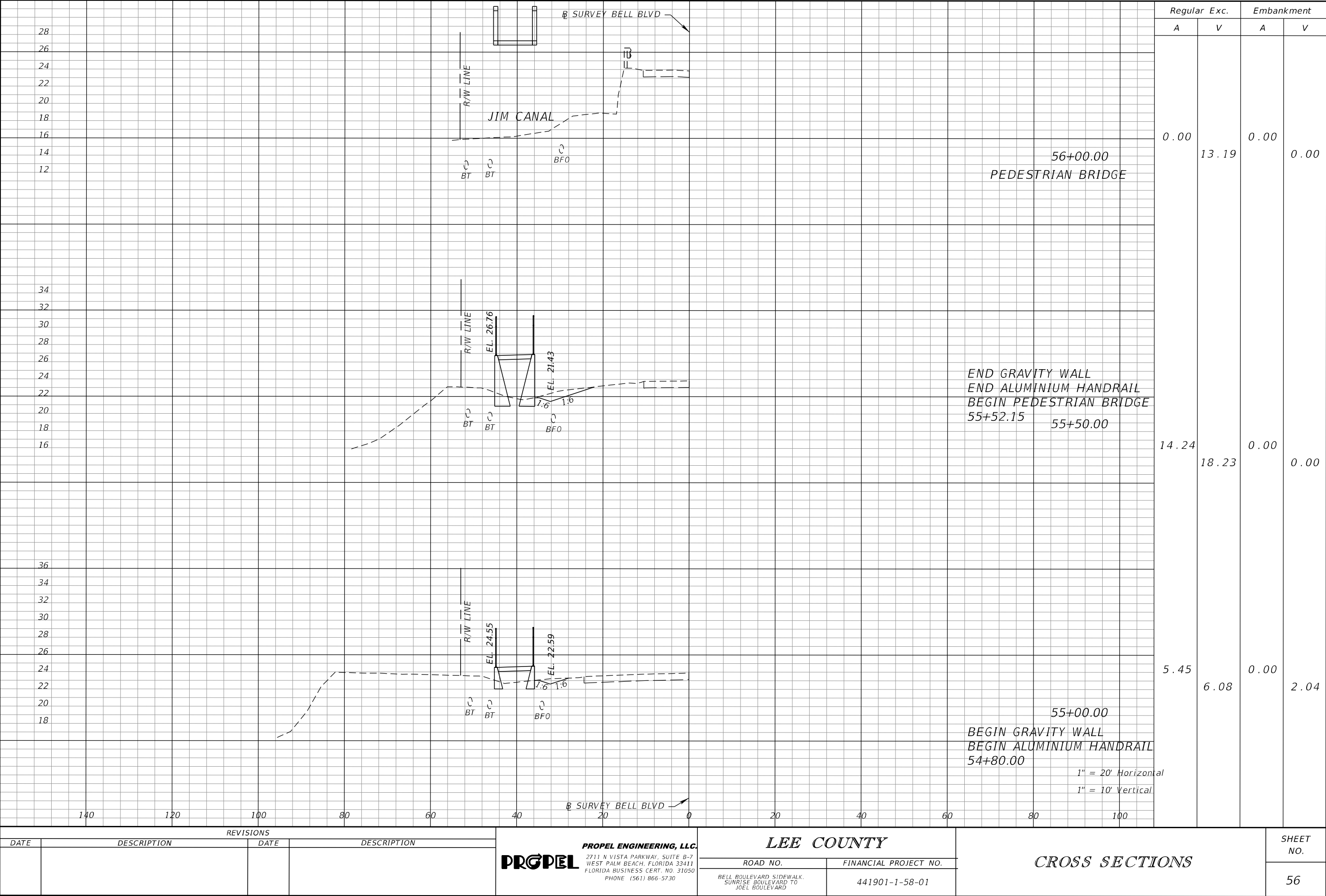
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DATE	DESCRIPTION	DATE	DESCRIPTION

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LEE COUNTY
ROAD NO.
FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK,
SUNRISE BOULEVARD TO
JOEL BOULEVARD
441901-1-58-01

CROSS SECTIONS		SHEET NO.
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Regular		Exc.	Embankment	
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14.24	18.23	0.00	0.00	0.00
5.45	6.08	0.00	2.04	

56+00.00
PEDESTRIAN BRIDGE

END GRAVITY WALL
END ALUMINIUM HANDRAIL
BEGIN PEDESTRIAN BRIDGE
55+52.15 55+50.00

55+00.00
BEGIN GRAVITY WALL
BEGIN ALUMINIUM HANDRAIL
54+80.00

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

DATE

DESCRIPTION

DATE

DESCRIPTION

PROPEL

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LEE COUNTY

ROAD NO.

FINANCIAL PROJECT NO.

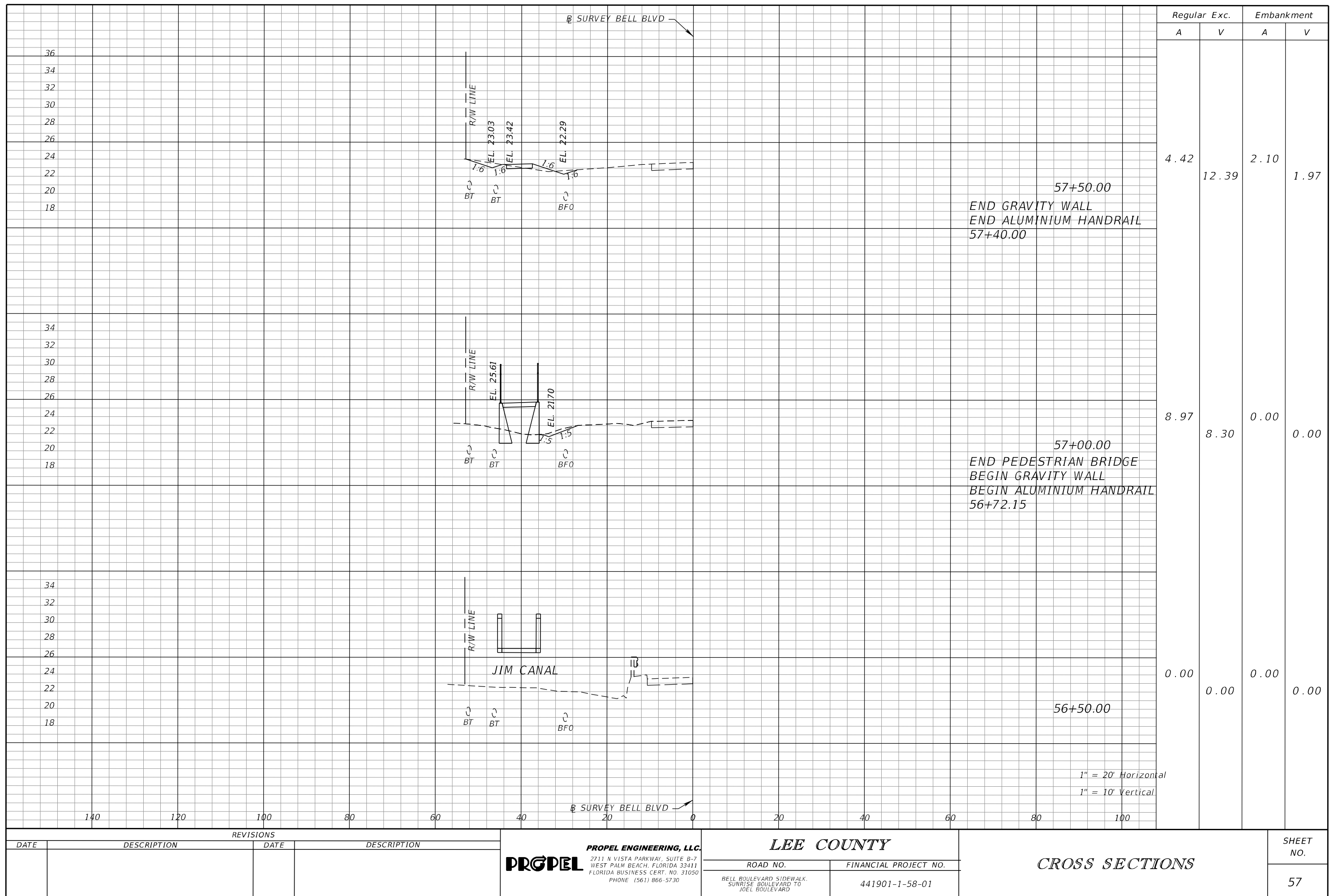
BELL BOULEVARD SIDEWALK,
SUNRISE BOULEVARD TO
JOEL BOULEVARD

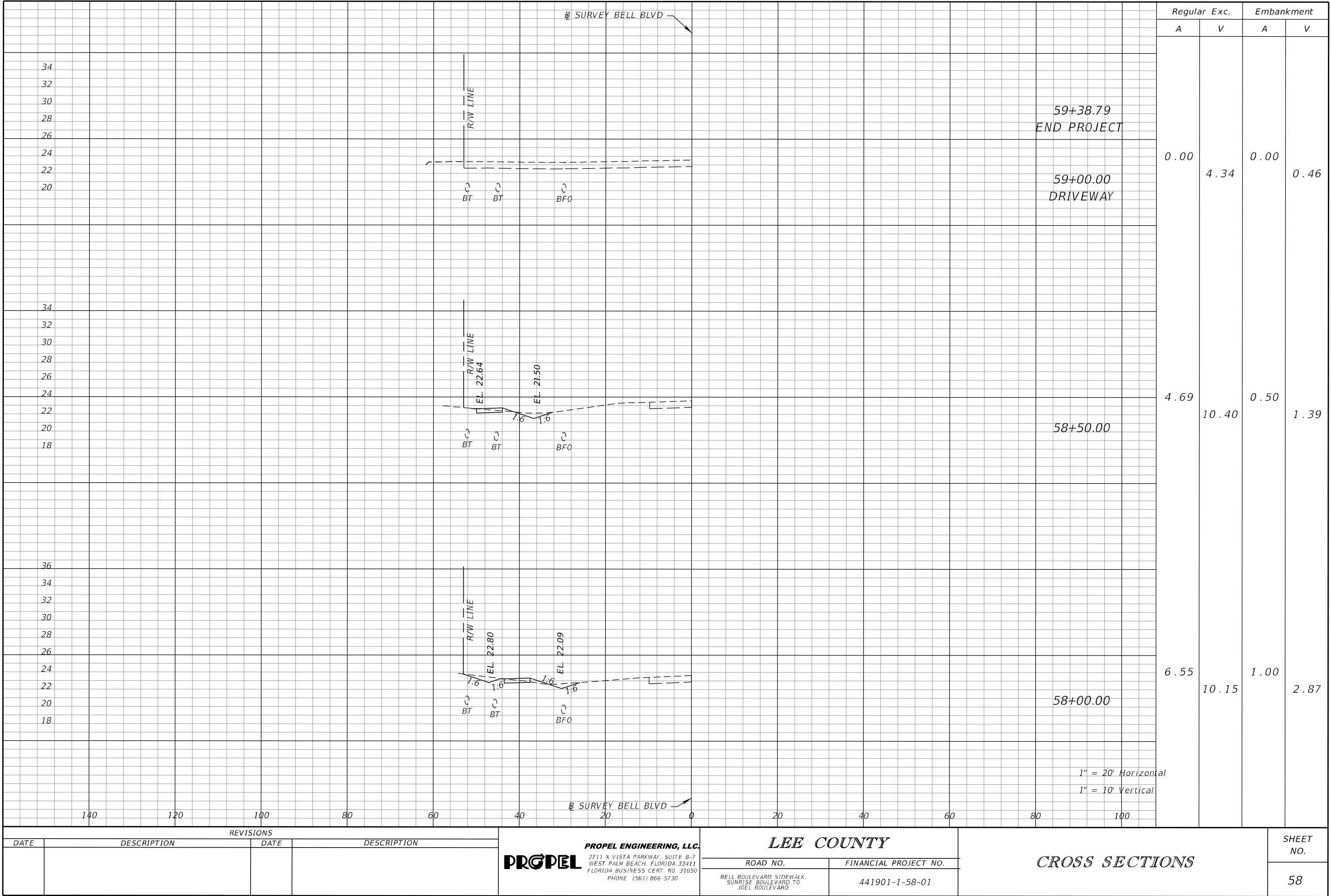
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CROSS SECTIONS

SHEET NO.
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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 OF THE CONSTRUCTION PLANS (CALLED THE KEY SHEET) CONTAINS AN INDEX TO THE OTHER SHEETS. THE COMPLETE STORMWATER POLLUTION PREVENTION PLAN INCLUDES SEVERAL ITEMS: THIS NARRATIVE DESCRIPTION, THE DOCUMENTS REFERENCED IN THIS NARRATIVE, THE CONTRACTOR'S APPROVED EROSION CONTROL PLAN REQUIRED BY SPECIFICATION SECTION 104, AND REPORTS OF INSPECTION MADE DURING CONSTRUCTION.

1.0 SITE DESCRIPTION:

1.A. NATURE OF CONSTRUCTION ACTIVITY:

THIS PROJECT IS TO PROVIDE SIDEWALKS AND PEDESTRIAN BRIDGE ON BELL BOULEVARD FROM SUNRISE BOULEVARD TO ALBEMARBLE CIR.

DESCRIPTION OF IMPROVEMENTS:

THE MAJOR OBJECTIVES OF THIS PROJECT INCLUDE INSTALLATION OF SIDEWALK, PEDESTRIAN BRIDGE AND PROVIDING SWALES TO IMPROVE THE EXISTING DRAINAGE SYSTEM. OTHER IMPROVEMENTS INCLUDE MILLING AND RESURFACING OF EXISTING PAVEMENT AT SOME SPOT LOCATIONS. THIS PROJECT IS APPROXIMATELY 0.9 MILES.

1.B. SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:

THE FOLLOWING SEQUENCE OF MAJOR ACTIVITIES SHALL BE FOLLOWED UNLESS THE CONTRACTOR PROPOSES AN ALTERNATIVE SEQUENCE THAT IS EQUAL OR BETTER AT CONTROLLING EROSION AND SEDIMENT AND IS APPROVED BY THE ENGINEER.

MAINTAIN ONE LANE OF TRAVEL IN EACH DIRECTION BY SHIFTING TRAFFIC AS NECESSARY.

CONSTRUCT PROPOSED, DRAINAGE, SIDEWALK IMPROVEMENTS AS SHOWN IN TRAFFIC CONTROL PLANS.

1.C. AREA ESTIMATES:

TOTAL AREA TO BE DISTURBED: 3.92 AC

TOTAL AREA OF CLEARING AND GRUBBING: 215 AC

SOILS DATA: THE RESULTS OF THE SOIL BORINGS ALONG THE ROADWAY ARE SHOWN IN THE STRUCTURES REPORT OF CORE BORINGS. THE NUMBERS FOR THESE ARE IDENTIFIED ON THE KEY SHEET OF THE STRUCTURES PLANS. IN GENERAL, THE SOILS ARE BROWN SAND WITH SILT.

1.D. SITE MAP:

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

DRAINAGE PATTERNS: DRAINAGE PATTERNS INCLUDE SHEET FLOW FROM THE ROADWAY INTO ROADSIDE DRY TREATMENT SWALES.

APPROXIMATE SLOPES: THE SLOPES OF THE SITE CAN BE SEEN IN THE TYPICAL SECTION AND IN THE CROSS SECTION SHEETS.

AREAS OF SOIL DISTURBANCE: THE AREAS TO BE DISTURBED ARE INDICATED ON THE TYPICAL SECTION SHEETS AND CROSS SECTION SHEETS. ANY AREAS WHERE PERMANENT FEATURES ARE SHOWN TO BE CONSTRUCTED ABOVE OR BELOW GROUND WILL BE DISTURBED.

AREAS NOT TO BE DISTURBED: SEE PLAN SHEETS, TYPICAL SECTIONS AND CROSS SECTIONS SHEETS.

LOCATIONS OF TEMPORARY CONTROLS: SEDIMENT CONTROL DEVICES (INLET PROTECTION SYSTEM AND SEDIMENT BARRIER) WILL BE INSTALLED AROUND THE INLETS. SEDIMENT RUNOFF HAS THE POTENTIAL TO REACH SURFACE WATERS OR OFFS/TE STORMWATER COLLECTION FACILITIES.

LOCATIONS OF PERMANENT CONTROLS: TEMPORARY SEDIMENT CONTROL DEVICES ARE SHOWN IN EROSION CONTROL PLANS ADDITIONALLY PERMANENT SEDIMENT INCLUDE THE CONSTRUCTION INLETS WITH SUMP BOTTOMS, AND SODDING OF SIDE SLOPES.

AREAS TO BE STABILIZED: PERMANENT STABILIZATION IS SHOWN ON THE TYPICAL SECTION.

SURFACE WATERS: THE SURFACE WATER WITHIN THE SITE IS THE JIM CANAL.

2.0 CONTROLS

2.A. EROSION AND SEDIMENT CONTROLS:

IN THE SECTION 104 EROSION CONTROL PLAN, CONTRACTOR SHALL DESCRIBE THE PROPOSED EROSION CONTROL PRACTICES BASED ON THE CONTRACTOR'S PROPOSED TRAFFIC CONTROL PLAN. THE FOLLOWING RECOMMENDED GUIDELINES ARE BASED ON THE TRAFFIC CONTROL PLANS. WHERE FOLLOWING THE TRAFFIC CONTROL PLANS OUTLINED IN THESE CONSTRUCTION PLANS, THE CONTRACTOR MAY CHOOSE TO ACCEPT THE FOLLOWING GUIDELINES OF MODIFY THEM IN THE SECTION 104 EROSION CONTROL PLAN, SUBJECT TO APPROVAL OF THE ENGINEER. AS WORK PROGRESSES, THE CONTRACTOR SHALL MODIFY THE PLAN TO ADAPT TO SEASONAL VARIATIONS, CHANGES IN CONSTRUCTION ACTIVITIES, AND THE NEED FOR BETTER PRACTICES.

2.A.1 STABILIZATION PRACTICES:

IN THE SECTION 104 EROSION CONTROL PLAN, THE CONTRACTOR SHALL DESCRIBE THE STABILIZATION PRACTICES PROPOSED TO CONTROL EROSION. THE CONTRACTOR SHALL INITIATE ALL STABILIZATION MEASURES AS SOON AS PRACTICAL, BUT IN NO CASE MORE THAN 7 DAYS PRIOR TO BEGINNING WORK. THE STABILIZATION PRACTICES SHALL INCLUDE AT LEAST THE FOLLOWING, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TEMPORARY:

NO TEMPORARY STABILIZATION PRACTICES TO BE IMPLEMENTED

PERMANENT:

ASPHALT OR CONCRETE SURFACE.

PERFORMANCE TURF

2.A.2 STRUCTURAL PRACTICES:

IN THE SECTION 104 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 SPECIFICATION SECTION 104.

INLET PROTECTION IN ACCORDANCE WITH SPECIFICATION SECTION 104.

PERMANENT:

PERFORMANCE TURF/SODDING IN ACCORDANCE WITH SPECIFICATION SECTION 570.

2.B STORMWATER MANAGEMENT:

THE STORMWATER MANAGEMENT FOR THIS PROJECT CONSISTS OF DRY SWALES.

2.C OTHER CONTROLS:

THE CONTRACTOR SHALL PRACTICE GOOD HOUSEKEEPING BY INSTITUTING A CLEAN, ORDERLY, CONSTRUCTION SITE. THE FOLLOWING CONTROLS SHALL BE IMPLEMENTED TO FURTHER REDUCE POLLUTION AT THE PROJECT SITE.

2.C.1 DISCHARGE OF MATERIALS TO SURFACE WATERS:

NO CONSTRUCTION MATERIAL SHALL BE DISCHARGED TO WATERS OF THE STATE UNLESS AUTHORIZED BY SECTION 104 PERMIT AND/OR THE STATE OF FLORIDA ENVIRONMENTAL RESOURCE PERMIT. ALL CONSTRUCTION DEBRIS SHALL BE DISPOSED IN AN APPROVED UPLAND LOCATION. BUILDING MATERIAL SHALL NOT BE DISPOSED OF IN WETLANDS OR BURIED ON SITE.

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

THE CONTRACTOR SHALL TAKE MEASURES TO INSURE THE CLEANUP OF SEDIMENTS THAT HAVE BEEN TRACKED BY VEHICLES OR HAVE BEEN TRANSPORTED BY WIND OR STORM WATER ABOUT THE SITE OR ONTO NEARBY ROADWAYS.

STABILIZED CONSTRUCTION ENTRANCES AND CONSTRUCTION ROADS, IF APPROPRIATE, SHALL BE IMPLEMENTED

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FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

LEE COUNTY	
ROAD NO.	FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01

STORMWATER POLLUTION
PREVENTION PLAN

SHEET NO.

59

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IN ORDER TO REDUCE OFF SITE TRACKING AND WHEEL RUTS BOTH INSIDE AND OUTSIDE ROADWAY CLEAR ZONES.

LOADED HAUL TRUCKS SHALL BE COVERED WITH A TARPULIN. EXCESS DIRT ON THE ROAD SHALL BE REMOVED DAILY.

2.C.3 WASTE DISPOSAL:

THE CONTRACTOR SHALL DEMONSTRATE THE PROPER DISPOSAL OF ALL CONSTRUCTION WASTE GENERATED WITHIN THE PROJECT LIMITS. WASTE MAY INCLUDE, BUT NOT BE LIMITED TO, VEGETATION FROM CLEARING AND GRUBBING ACTIVITIES, PACKAGING MATERIALS, SCRAP BUILDING MATERIALS, LITTER FROM TRAVELING PUBLIC, SEWAGE FROM SANITARY FACILITIES, HERBICIDES AND PESTICIDES AND THEIR CONTAINERS, AND HYDROCARBON PRODUCTS. CONTRACTOR SHALL DESIGNATE A WASTE COLLECTION AREA ONSITE AND DELINEATE THE AREA ON THE SWPPP SITE MAP. SANITARY/SEPTIC FACILITIES SHALL BE PROVIDED AND MAINTAINED IN A NEAT AND SANITARY CONDITION, FOR THE USE OF THE CONTRACTOR'S EMPLOYEES AS NECESSARY TO COMPLY WITH THE REQUIREMENTS AND REGULATIONS OF THE STATE AND LOCAL BOARDS OF HEALTH. A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, AS REQUIRED BY STATE REGULATIONS, WILL COLLECT ALL SANITARY WASTE FROM PORTABLE UNITS.

THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT LIMITS DURING CONSTRUCTION ACTIVITIES. CONTRACTOR WILL PROVIDE AN ADEQUATE NUMBER OF LITTER CONTAINERS WITH LIDS AT THE STAGING, STOCKPILE AND FIELD OFFICE AREAS. SPILLED LITTER CONTAINERS WILL BE CLEANED UP IMMEDIATELY.

2.C.4 FERTILIZERS AND PESTICIDES:

THE APPLICATION AND HANDLING OF HERBICIDES AND PESTICIDES SHALL BE IN COMPLIANCE WITH THE MANUFACTURER RECOMMENDED METHOD.

HERBICIDE AND PESTICIDES SHALL BE STORED ONSITE IN THEIR ORIGINAL CONTAINERS WITH PRODUCT LABEL INTACT.

HERBICIDE APPLICATOR TO HAVE CURRENT APPLICATOR LICENSE WITH RIGHT-OF-WAY ENDORSEMENT, A COPY OF WHICH IS TO BECOME PART OF PROJECT FILE.

2.C.5 TOXIC/HAZARDOUS MATERIAL HANDLING:

CONTRACTOR SHALL PROVIDE EQUIPMENT NECESSARY TO CONTAIN AND CLEAN UP SPILLS OF HAZARDOUS MATERIALS, INCLUDING PETROLEUM PRODUCTS. SPILLS SHALL BE CONTAINED AND CLEANED UP IMMEDIATELY AFTER THEY OCCUR. SPILLED MATERIAL AND THE EQUIPMENT USED TO CLEAN UP THE SPILL SHALL NOT COME IN CONTACT WITH SURFACE WATERS OR BE INTRODUCED INTO STORM WATER. DISPOSAL OF SURPLUS PRODUCT WILL BE DONE ACCORDING TO MANUFACTURER RECOMMENDED METHOD.

3.0 MAINTENANCE:

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

PERFORMANCE TURF: KEEP PERFORMANCE TURF IN MOIST CONDITION FOR THE DURATION OF THE CONTRACT PERIOD AND IN NO CASE LESS THAN TWO WEEKS. PERMANENT SODDING WILL BE INSPECTED AND REPAIRED FOR BARE POTS, WASHOUTS, AND UNHEALTHY GROWTH.

SILT FENCE: MAINTAIN PER SECTION 104. ANTICIPATE REPLACING

SILT FENCE ON 12-MONTH INTERVALS.

SEDIMENT BARRIERS: REMOVE SEDIMENT WHEN IT REACHES ½ THE HEIGHT OF BARRIER OR WHEN WATER PONDS IN UNACCEPTABLE AMOUNTS OR AREAS. THE CONTRACTOR SHOULD ANTICIPATE REPLACING BALES ON 3-MONTH INTERVALS.

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 MORE OF RAIN. WHERE SITES HAVE BEEN PERMANENTLY STABILIZED, INSPECTIONS SHALL BE CONDUCTED AT LEAST ONCE EVERY MONTH. THE CONTRACTOR SHALL ALSO INSPECT THAT CONTROLS INSTALLED IN THE FIELD AGREE WITH THE LATEST STORM WATER POLLUTION PREVENTION PLAN. THE FOLLOWING ITEMS WILL BE INSPECTED:

POINTS OF DISCHARGE TO WATERS OF THE UNITED STATES.

POINTS OF DISCHARGE TO SEPARATE MUNICIPAL STORM SEWER SYSTEMS. DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY STABILIZED.

AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION. STRUCTURAL CONTROLS.

STORMWATER MANAGEMENT SYSTEMS.

LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.

THE CONTRACTOR SHALL 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, THE CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES, AS APPROVED BY THE ENGINEER.

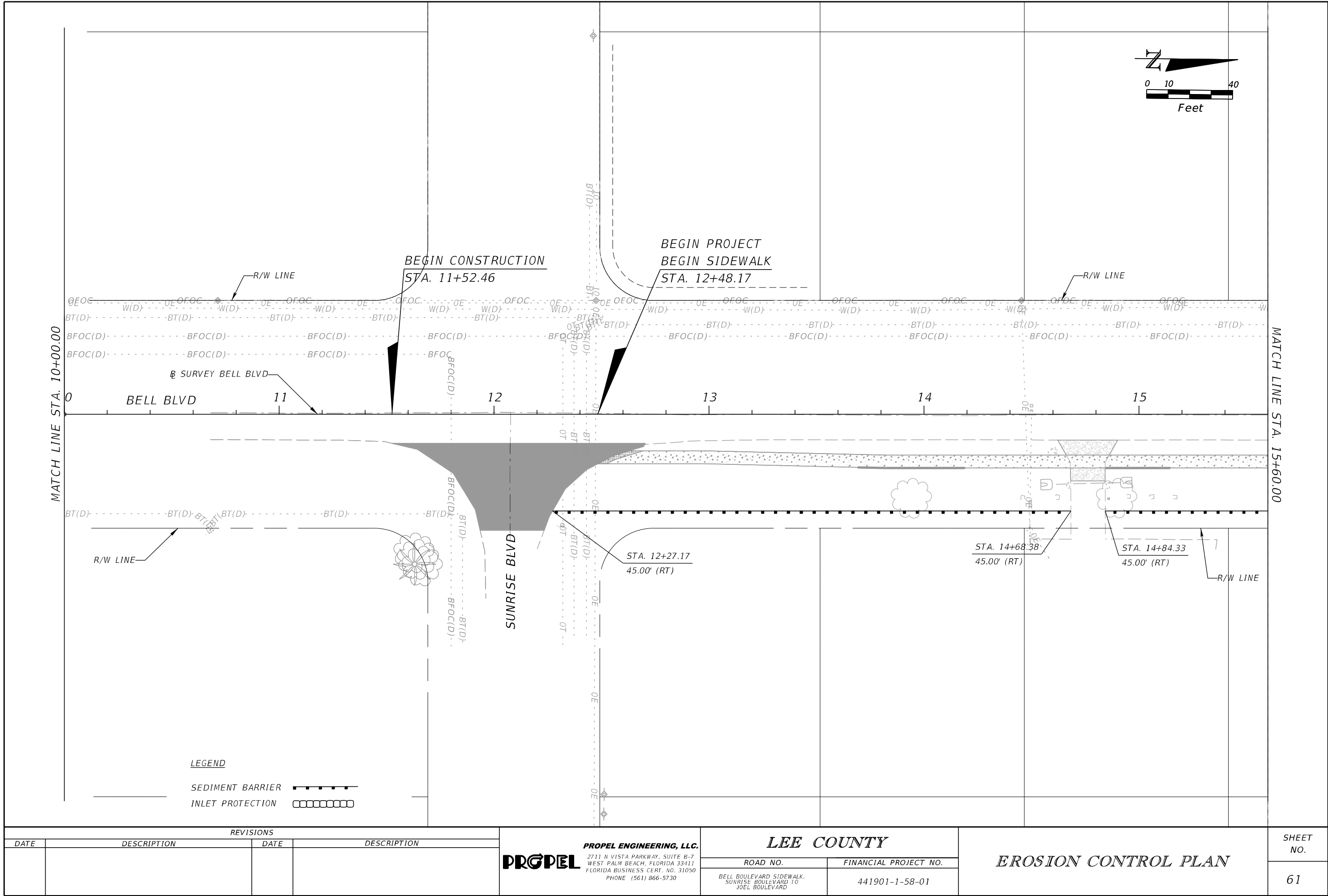
5.0 NON-STORMWATER DISCHARGES:

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 CONTAMINATED SOIL OR GROUND WATER IS ENCOUNTERED DURING CONSTRUCT/ON, THE CONTRACTOR IS TO CEASE OPERATIONS IN THAT AREA. THE CONTRACTOR SHALL CONTACT DAVE LETTERMAN, DISTRICT HAZARDOUS MATERIALS COORDINATOR AT (888) 2 74-5343.

REVISIONS				PROPEL 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		STORMWATER POLLUTION PREVENTION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		60
					BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		

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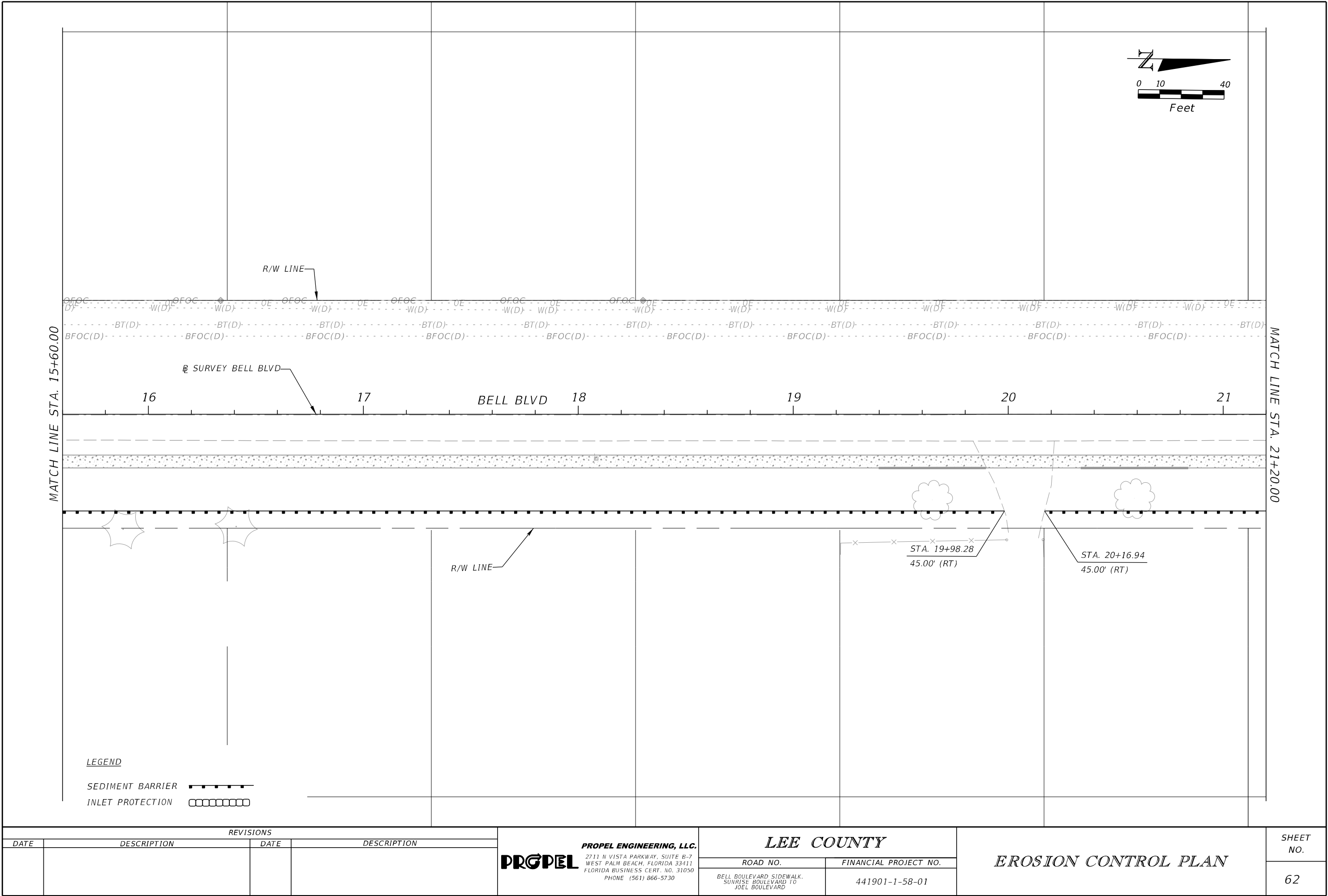
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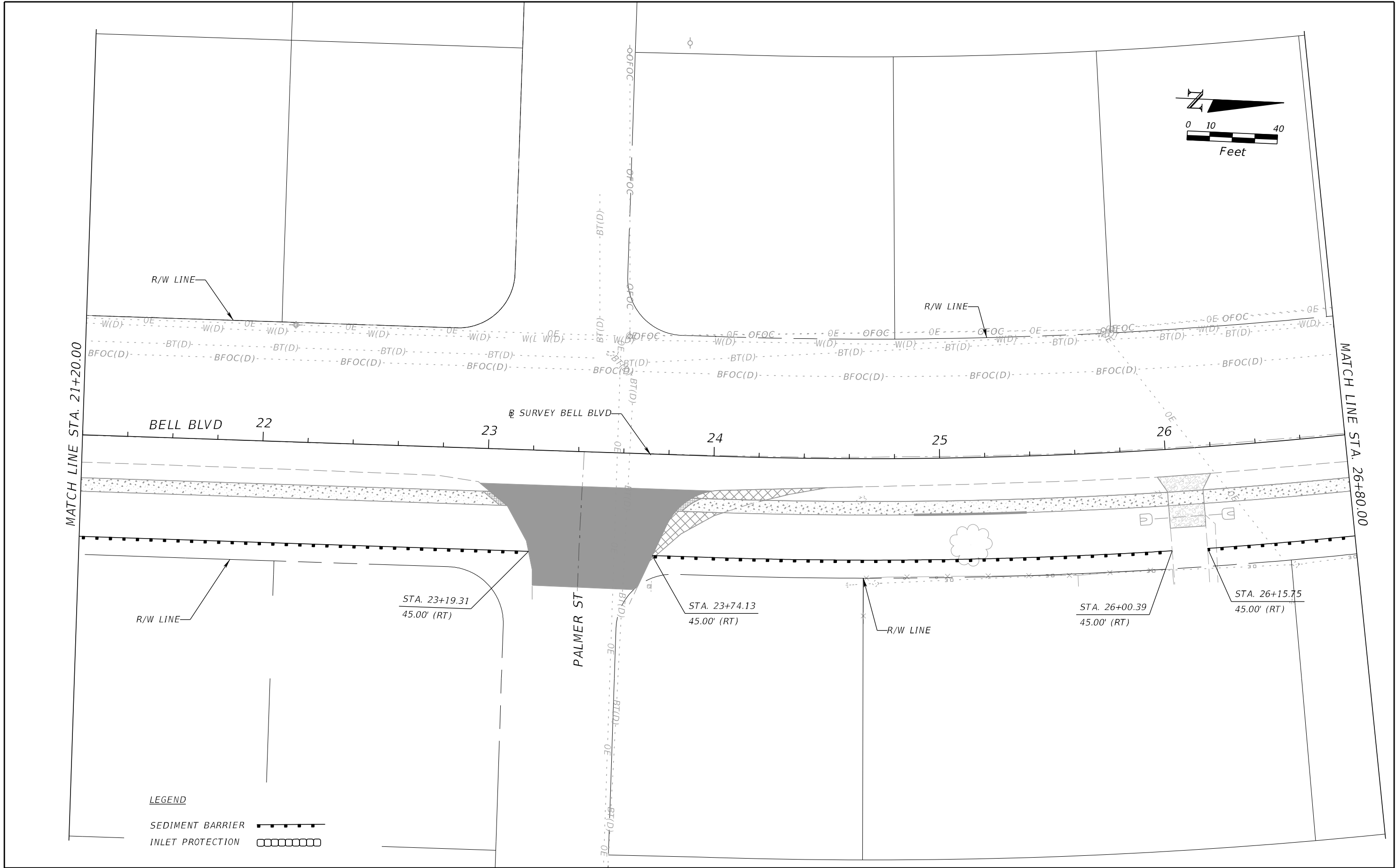
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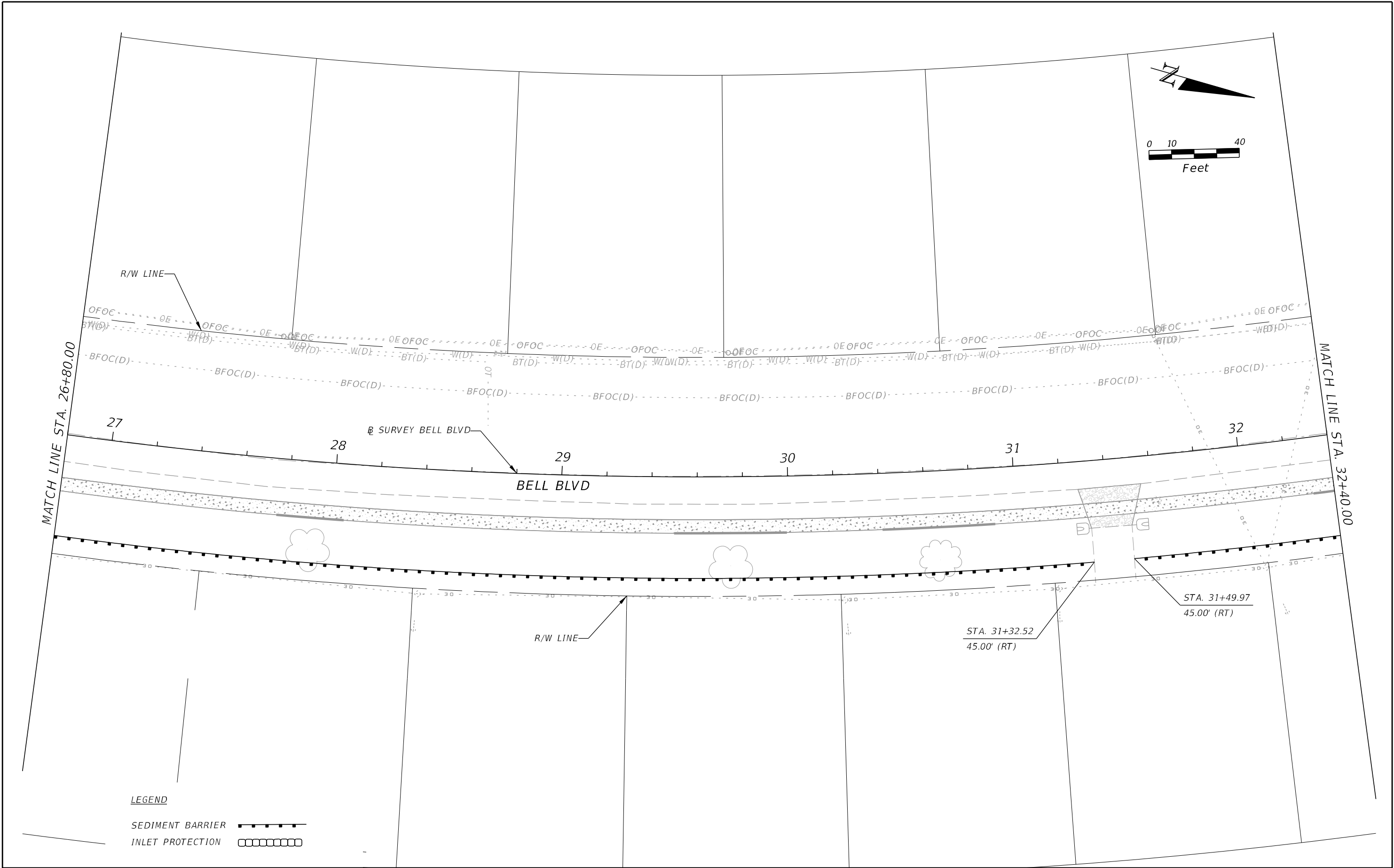
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		
					BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		63

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PROPEL
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LEE COUNTY	
ROAD NO.	FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01

EROSION CONTROL PLAN	

SHEET NO.
64

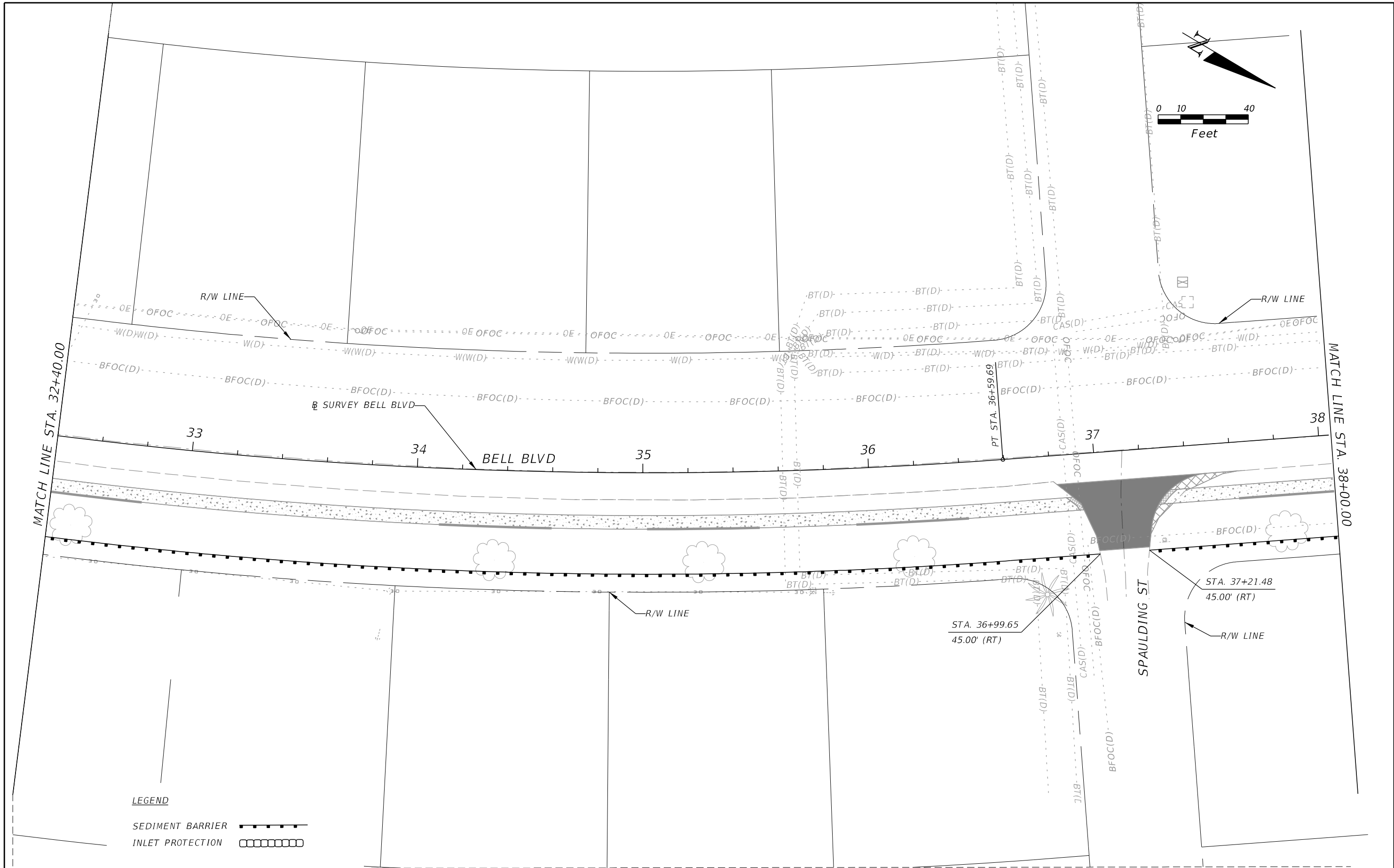
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LEGEND

- SEDIMENT BARRIER 
- INLET PROTECTION 

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PROPEL

PROPEL ENGINEERING, LLC.
2711 N VISTA PARKWAY, SUITE B-7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

LEE COUNTY

ROAD NO.	FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01

EROSION CONTROL PLAN

SHEET
NO.

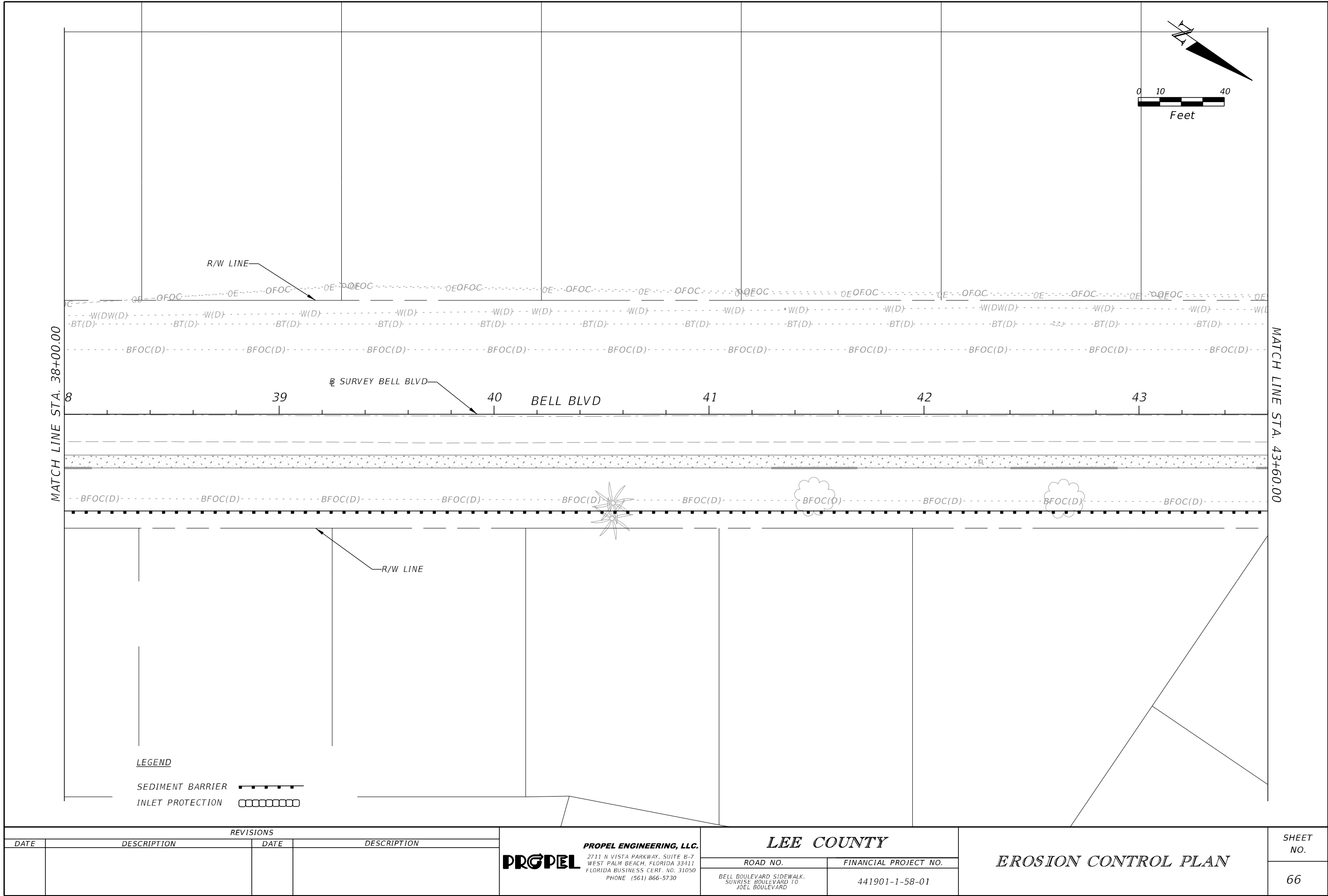
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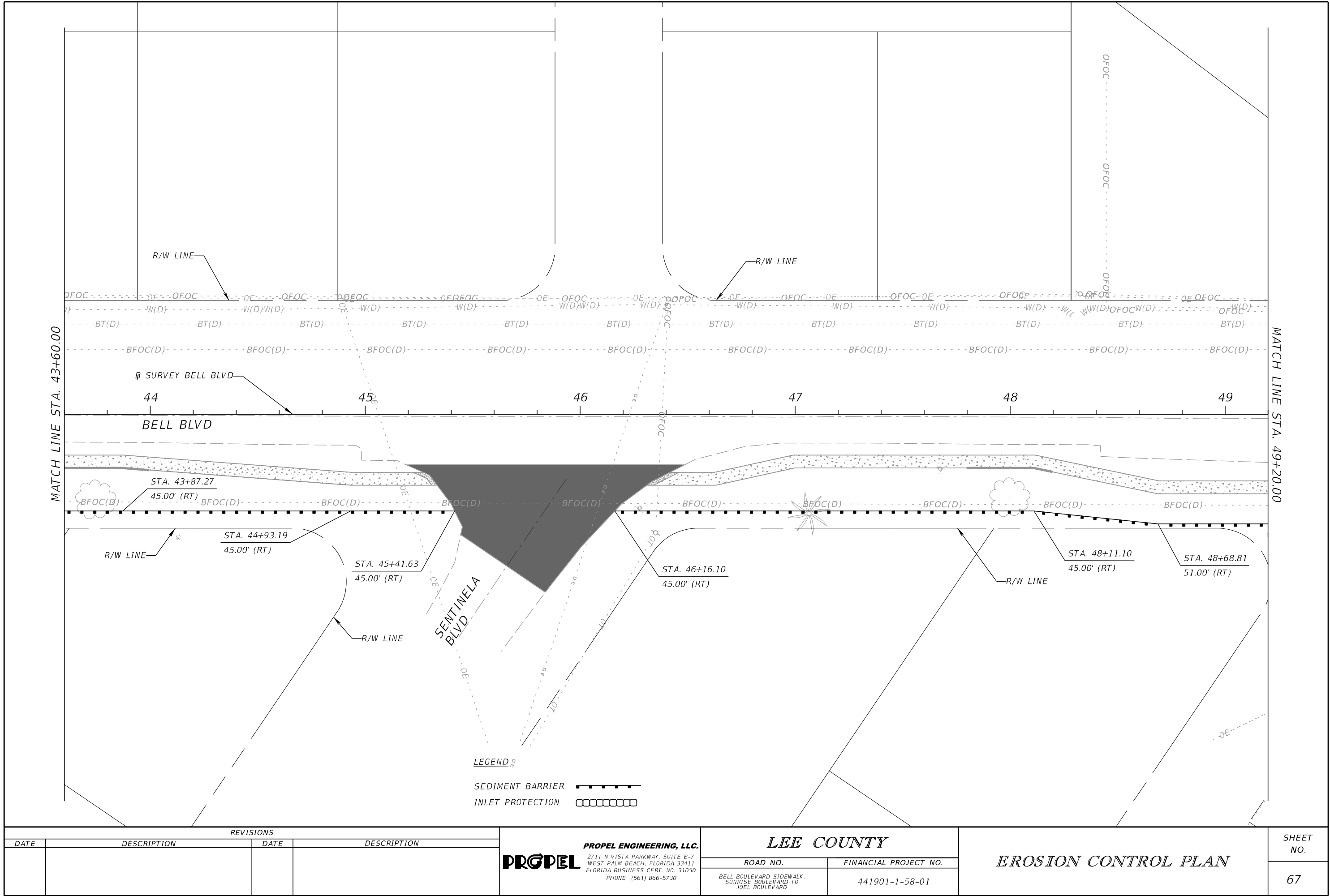
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PROPEL
2711 N VISTA PARKWAY, SUITE B-7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

PROPEL ENGINEERING, LLC.

LEE COUNTY	
ROAD NO.	FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01

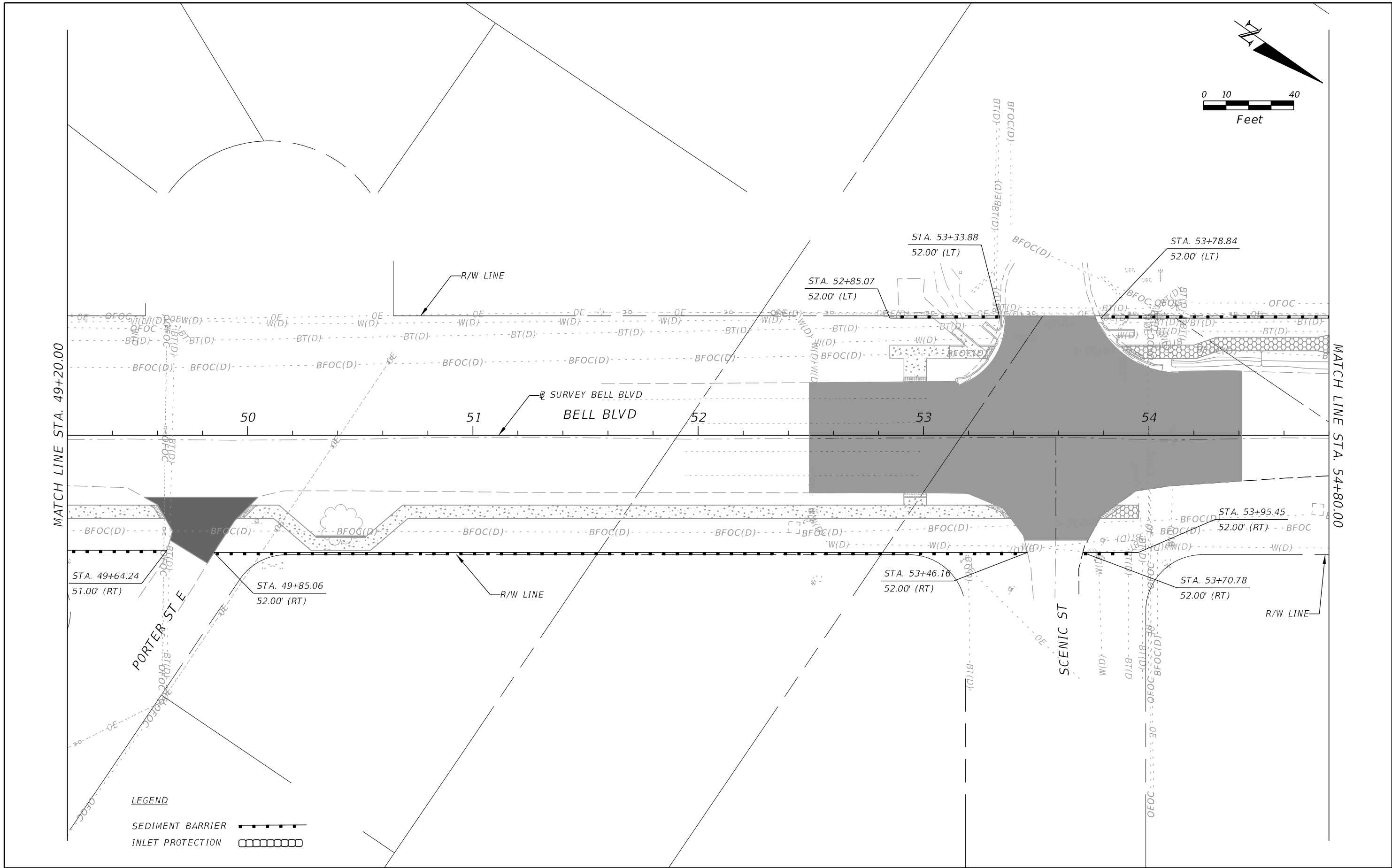
EROSION CONTROL PLAN

67

SHEET NO.
67

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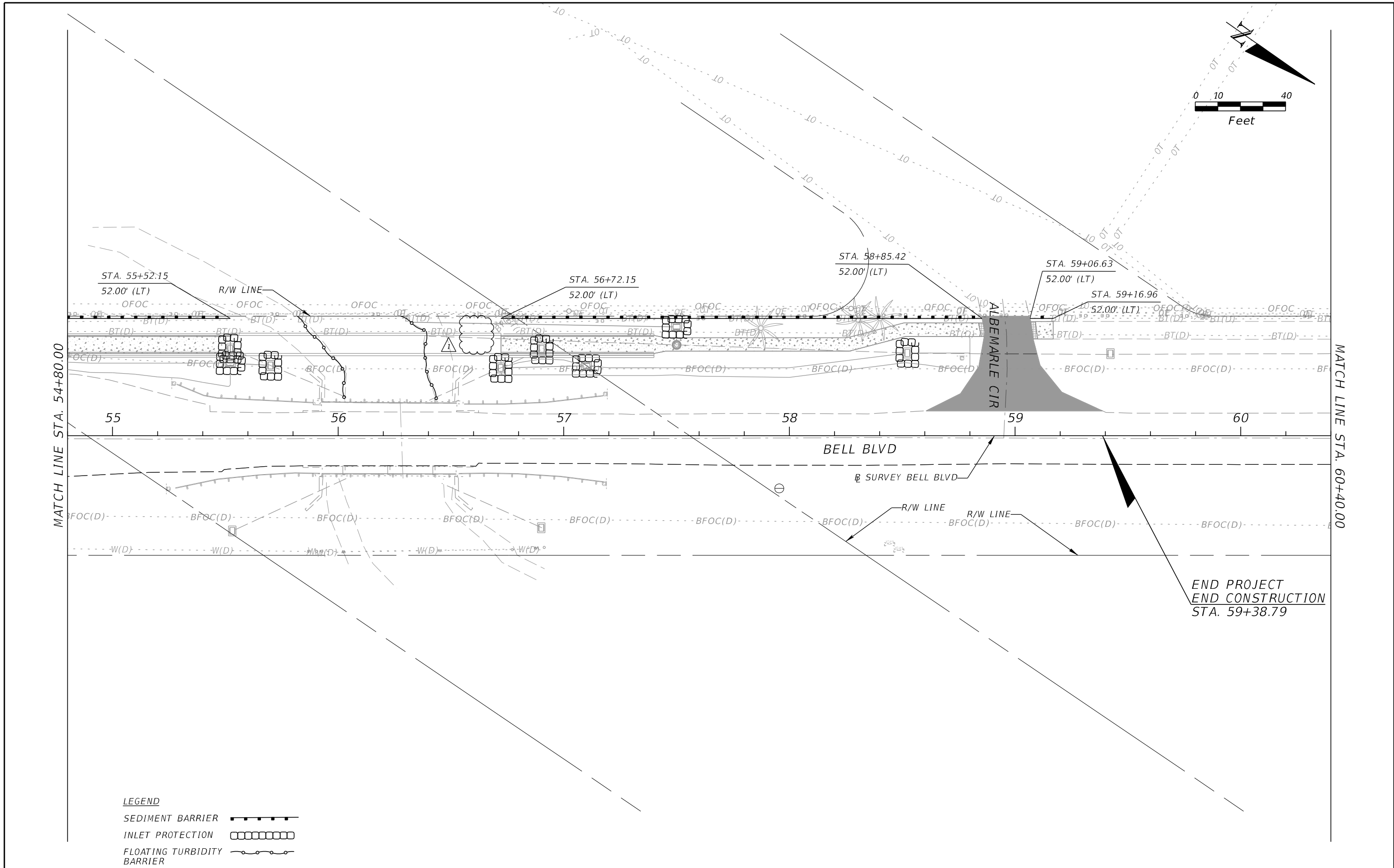
REVISIONS				LEE COUNTY		EROSION CONTROL PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				
							68

PROPEL
2711 N VISTA PARKWAY, SUITE B-7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

LEE COUNTY
ROAD NO. BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD
FINANCIAL PROJECT NO. 441901-1-58-01

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

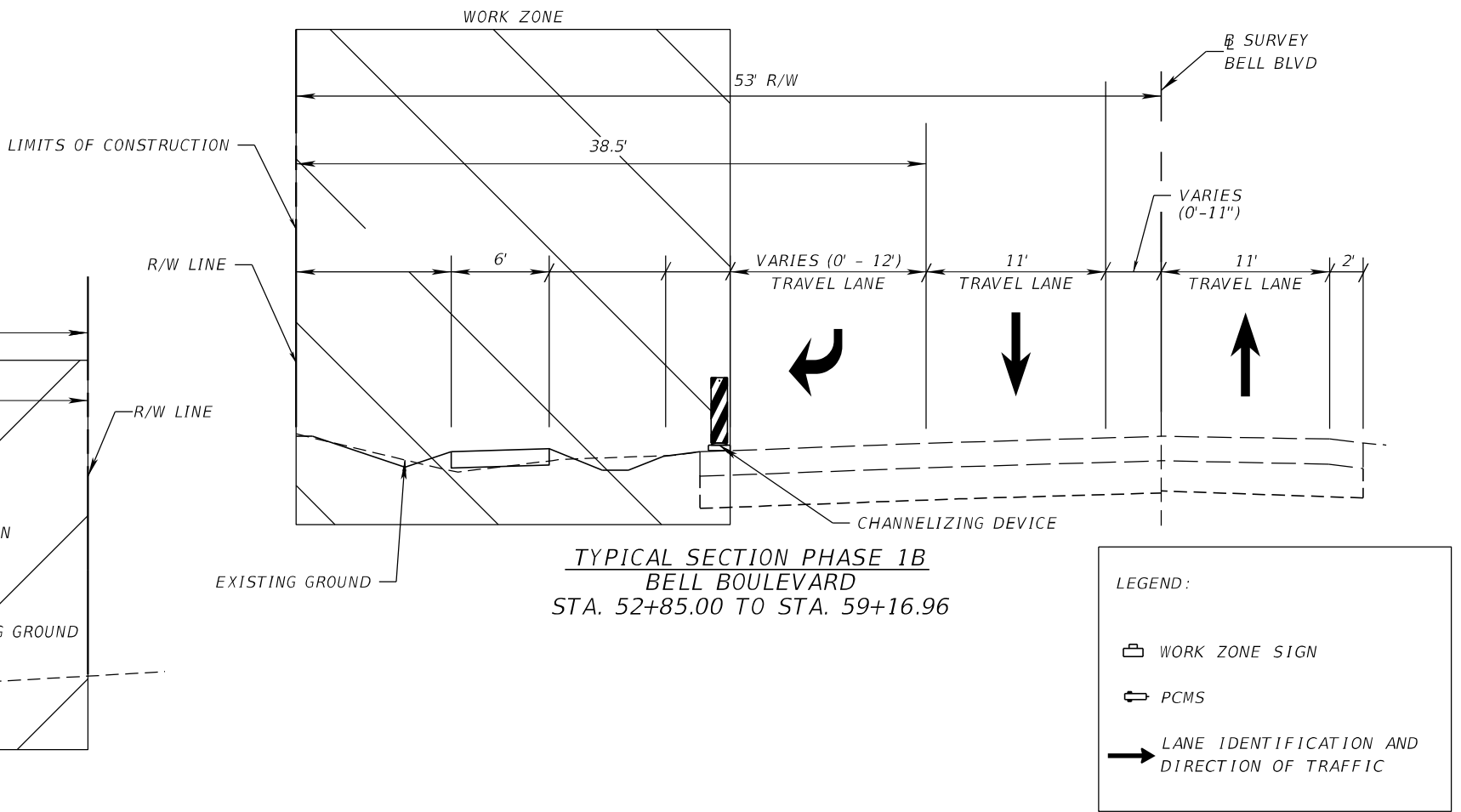
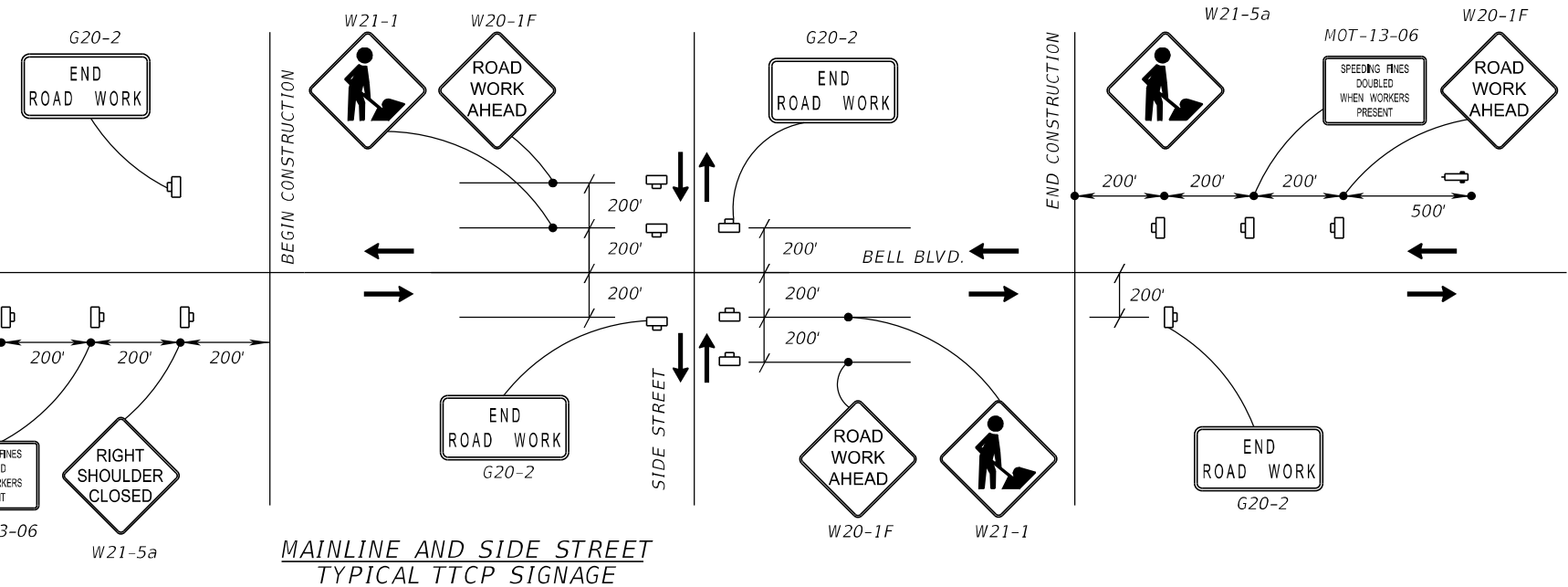
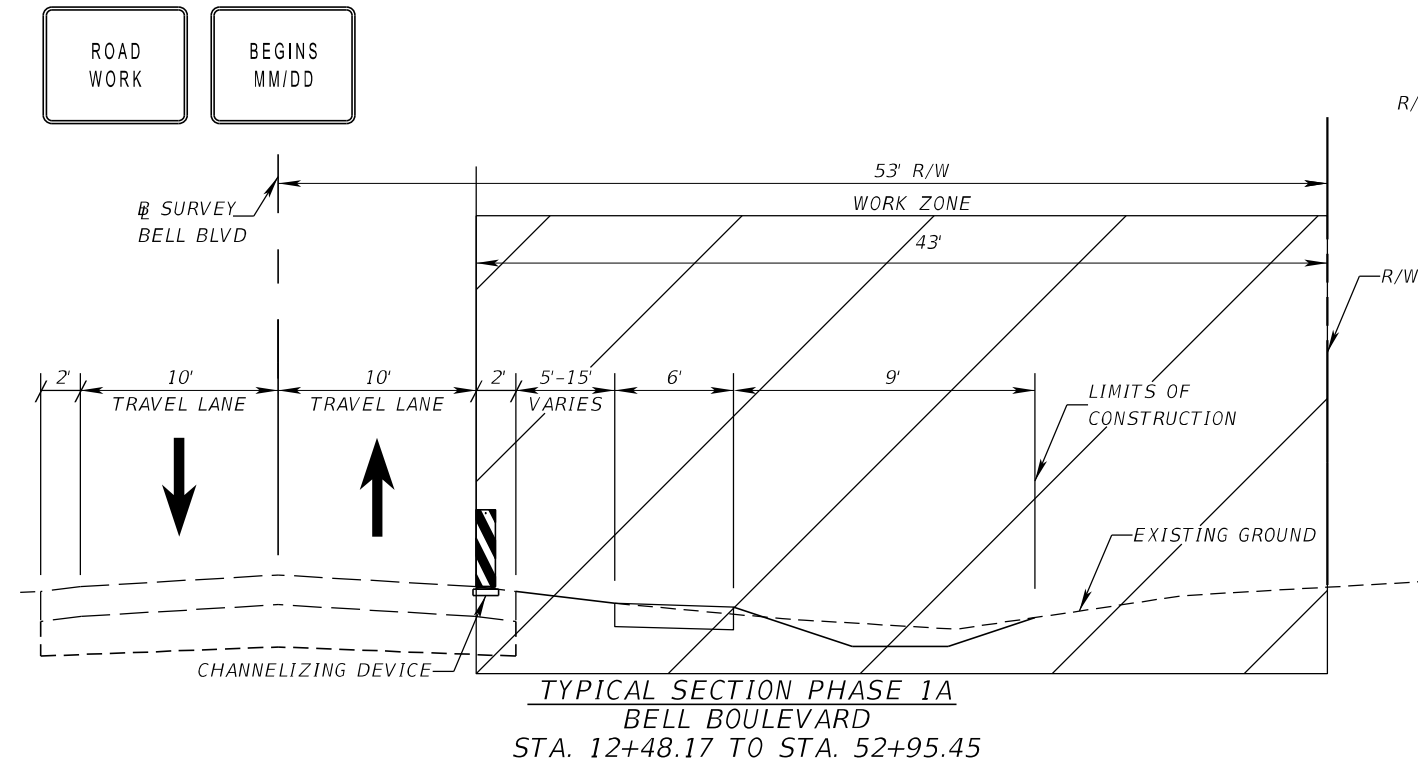
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REVISIONS				PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		EROSION CONTROL PLAN	SHEET NO. 69
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		
5/13/25	1 REMOVED INLET PROTECTION				BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		

TRAFFIC CONTROL PLAN GENERAL NOTES

1. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT STANDARD PLANS, INDEX 102-600 SERIES.
2. CONSTRUCTION OPERATIONS SHALL COMPLY WITH ALL LOCAL CITY, COUNTY AND STATE NOISE ORDINANCES.
3. MAINTAIN EXISTING 45-35 MPH REGULATORY SPEED WITHIN WORK ZONE TRAVEL WAYS.
4. ALL LANES MUST BE OPEN FOR TRAFFIC DURING AN EVACUATION NOTICE OF A HURRICANE OR OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF THE EVACUATION OR EVENT AS DIRECTED BY THE PROJECT ENGINEER.
5. WORK ZONE SIGNS SHALL BE ADJUSTED TO THE PROPOSED WORK ZONE PRIOR TO THE START OF WORK FOR EACH DAY DURING THE DURATION OF THE PROJECT.
6. ALL TRAFFIC LANES MUST BE KEPT OPEN TO TRAFFIC FROM 6:00 A.M. TO 9:00 A.M. AND FROM 4:00 P.M. TO 7:00 P.M., UNLESS OTHERWISE DIRECTED BY THE COUNTY ENGINEER.
7. DURING PEAK SEASON (THANKSGIVING-EASTER) DAYTIME LANE CLOSURES WILL NOT BE PERMITTED ON ARTERIAL AND COLLECTOR ROADWAYS. DURING THIS TIME PERIOD ALL LANE CLOSURES WILL BE ALLOWED TO COMMENCE AFTER 7:00 P.M. AND ALL LANES RE-OPENED AT 6:00 A.M. LANE CLOSURES MAY BE DONE ON WEEKENDS OR DURING DAYTIME HOURS WITH PRIOR APPROVAL OF THE COUNTY ENGINEER.
8. PRIOR TO CONSTRUCTION, A MAINTENANCE OF TRAFFIC (MOT) PLAN MUST BE SUBMITTED TO LEE COUNTY SIGNED AND SEALED BY A PROFESSIONAL ENGINEER FOR REVIEW AND APPROVAL. ALL SIGNING, PAVEMENT MARKINGS, BARRICADES, AND WARNING LIGHTS NECESSARY FOR MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) AND SHALL CONFORM TO THE FLORIDA STANDARD SPECIFICATION SECTION 102. THE SEQUENCE OF CONSTRUCTION AND METHODS DESCRIBED IN THIS PLAN SET IS A SUGGESTION.
9. VEHICULAR TRAFFIC SHALL NOT BE PERMITTED ON A MILLED SURFACE, UNLESS PREVIOUSLY APPROVED BY THE DIRECTOR OF TRANSPORTATION OR DESIGNEE. ANY MILLED SURFACE PERMITTED TO BE OPENED TO TRAFFIC MUST HAVE TEMPORARY STRIPING IN-PLACE PRIOR TO OPENING TO TRAFFIC.
10. THE COST OF MAINTENANCE OF TRAFFIC OPERATIONS, INCLUDING ALL PCMS BOARDS AND TEMPORARY SHEET PILE, SHALL BE INCLUDED UNDER THE LUMP SUM PAY ITEM FOR MAINTENANCE OF TRAFFIC.
11. A PORTABLE CHANGEABLE MESSAGE SIGN (PCMS) SHALL BE USED AS INDICATED OR AS DIRECTED BY THE ENGINEER UNDER THE FOLLOWING CONDITIONS:
14 DAYS PRIOR TO CONSTRUCTION DURING CONSTRUCTION

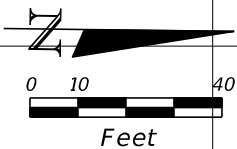
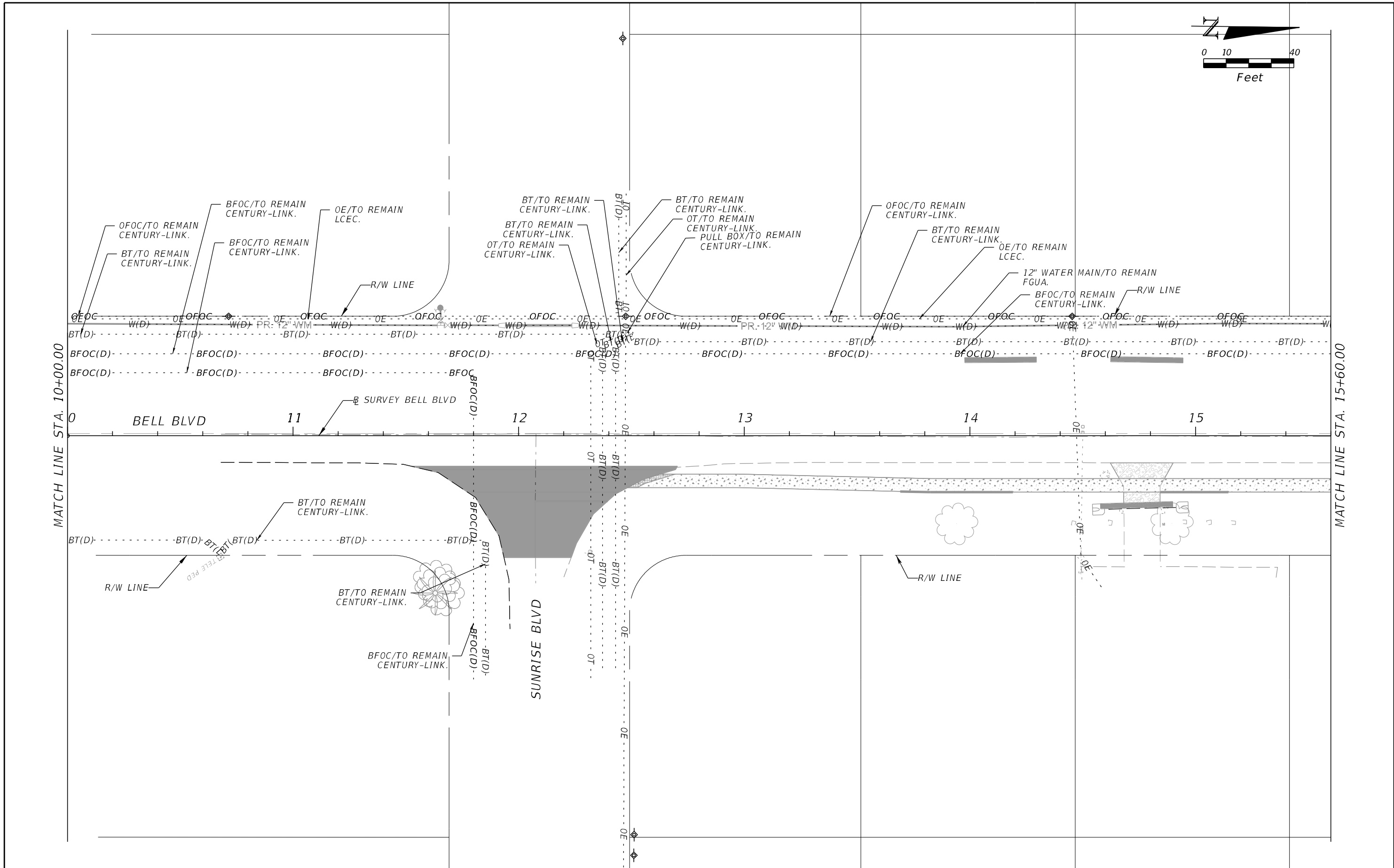


- LEGEND:
- WORK ZONE SIGN
 - PCMS
 - LANE IDENTIFICATION AND DIRECTION OF TRAFFIC

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PROPEL PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		TEMPORARY TRAFFIC CONTROL PLANS	SHEET NO.
	ROAD NO. BELL BOULEVARD SIDEWALK. SUNRISE BOULEVARD TO JOEL BOULEVARD	FINANCIAL PROJECT NO. 441901-1-58-01		70

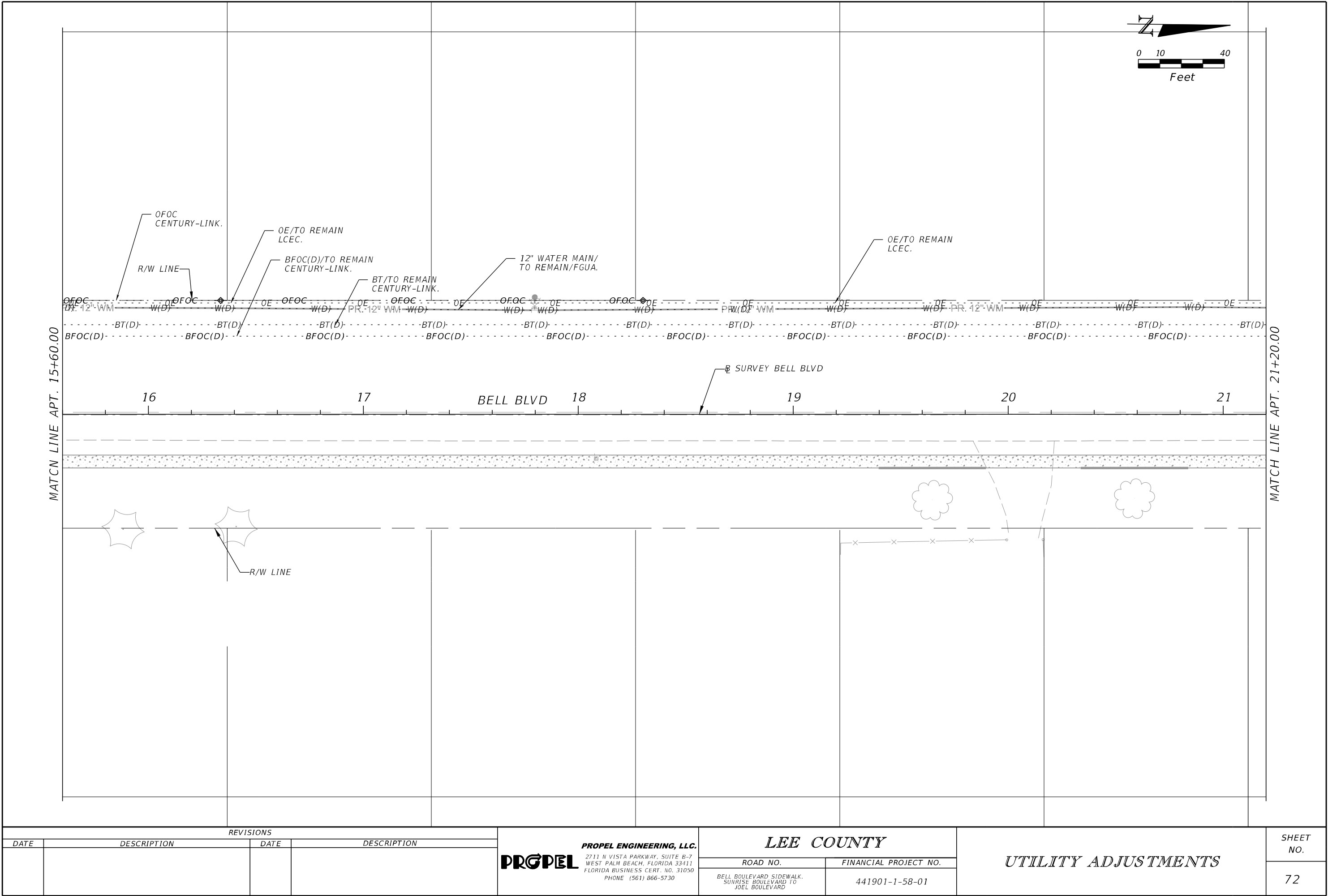
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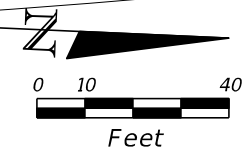
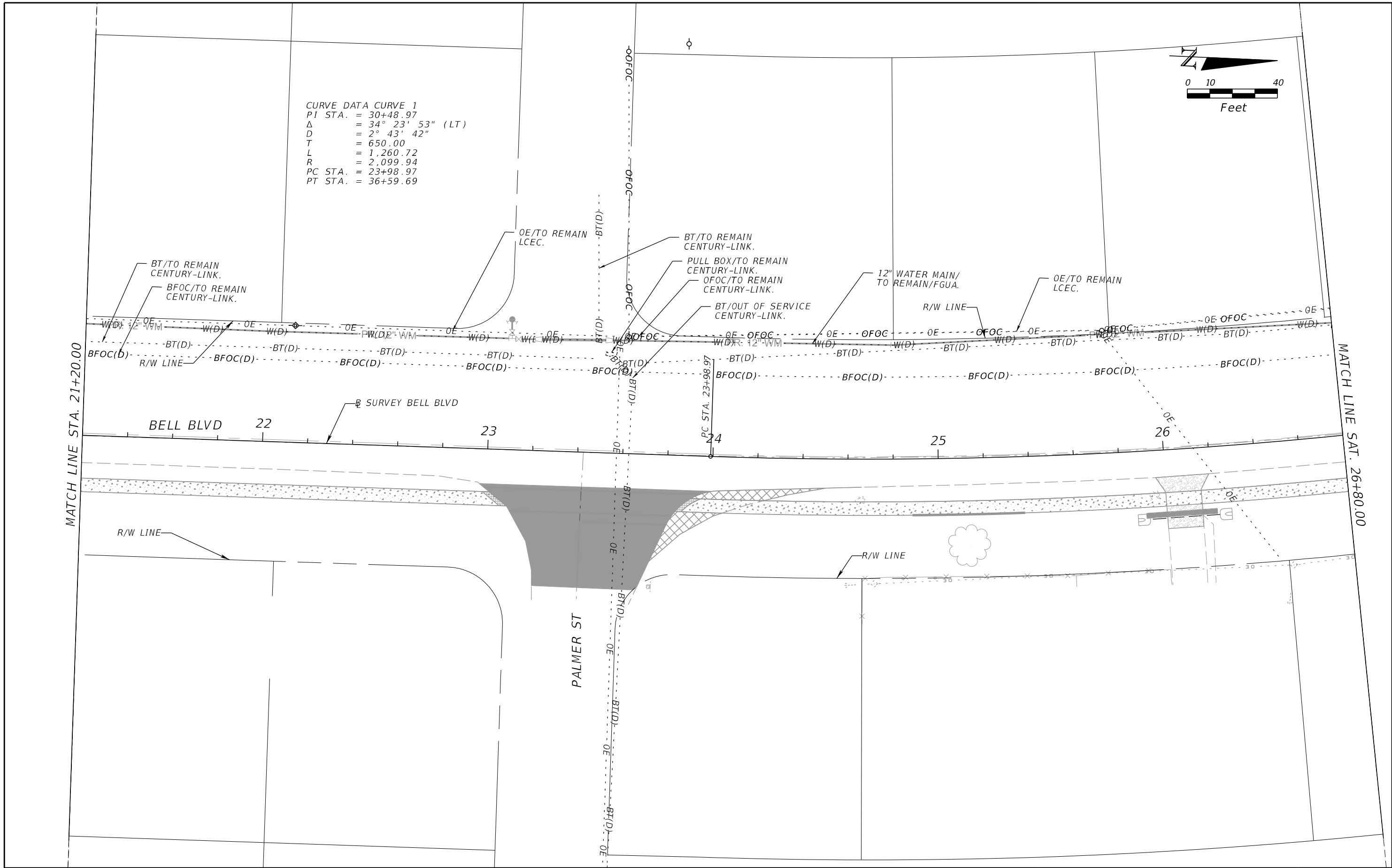
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71							
DATE	DESCRIPTION	DATE	DESCRIPTION				

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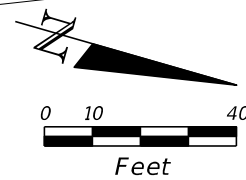
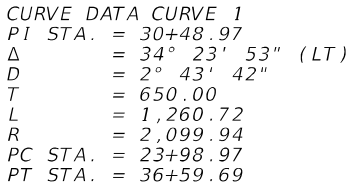


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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		
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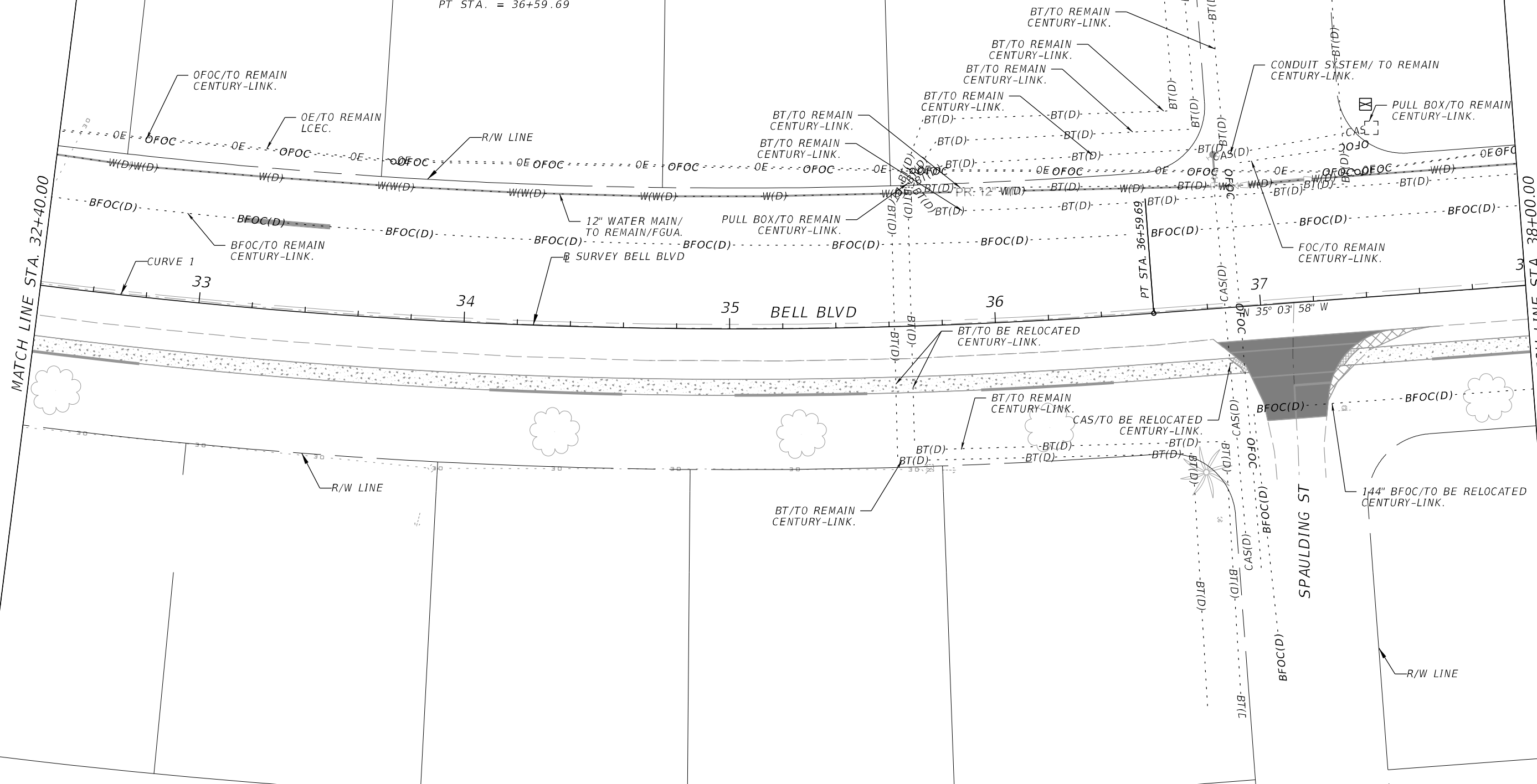
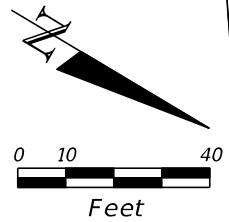
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REVISIONS				 PROPEL ENGINEERING, LLC. 2711 N VISTA PARKWAY, SUITE B-7 WEST PALM BEACH, FLORIDA 33411 FLORIDA BUSINESS CERT. NO. 31050 PHONE (561) 866-5730	LEE COUNTY		<i>UTILITY ADJUSTMENTS</i>	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		74
					BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		

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CURVE DATA CL BELL1
PI STA. = 30+48.97
Δ = 34° 23' 53" (LT)
D = 2° 43' 42"
T = 650.00
L = 1,260.72
R = 2,099.94
PC STA. = 23+98.97
PT STA. = 36+59.69



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PROPEL ENGINEERING, LLC.
2711 N VISTA PARKWAY, SUITE B-7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

LEE COUNTY

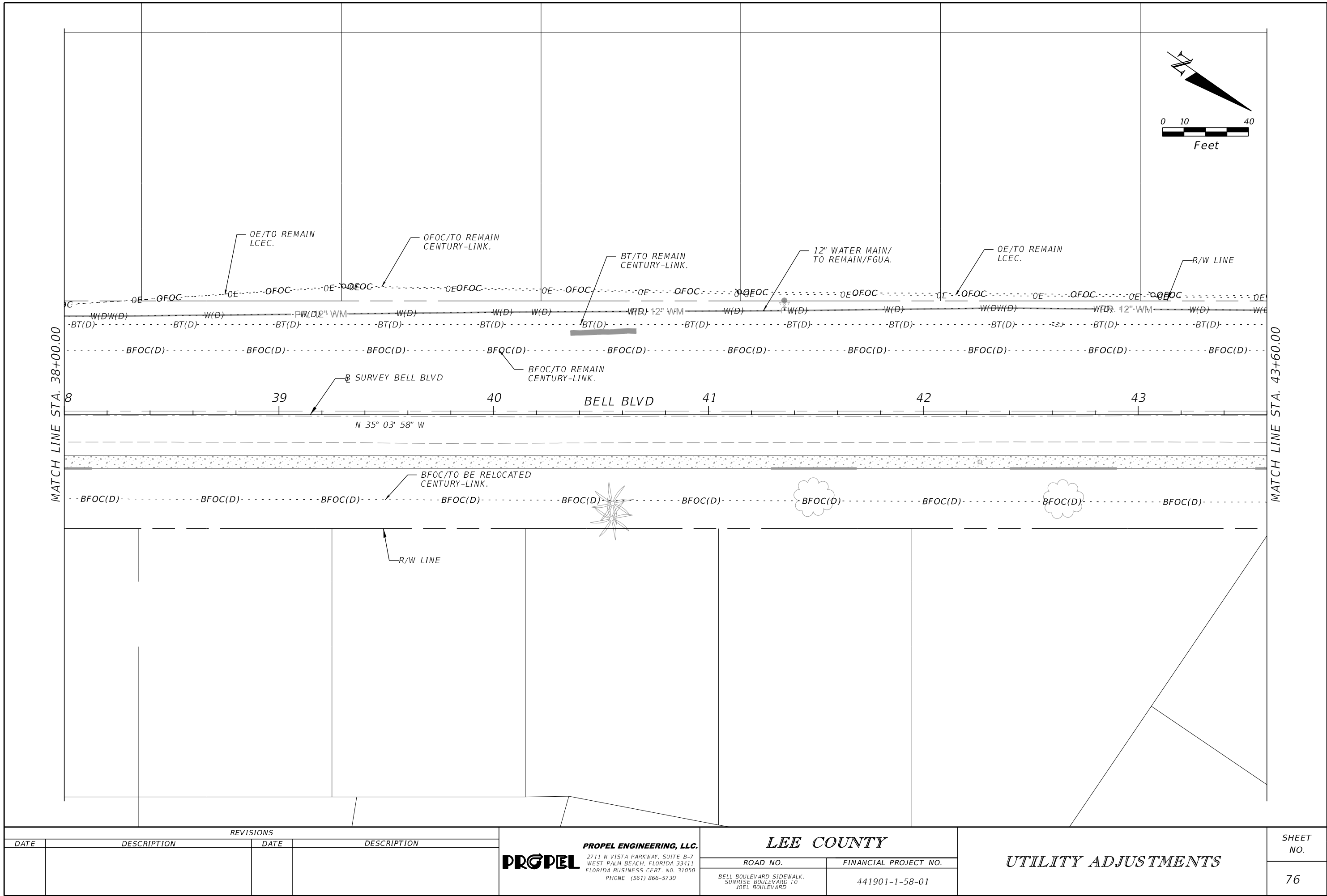
ROAD NO.	FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01

UTILITY ADJUSTMENTS

SHEET NO.

75

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

PROPEL ENGINEERING, LLC.
2711 N VISTA PARKWAY, SUITE B-7
WEST PALM BEACH, FLORIDA 33411
FLORIDA BUSINESS CERT. NO. 31050
PHONE (561) 866-5730

LEE COUNTY

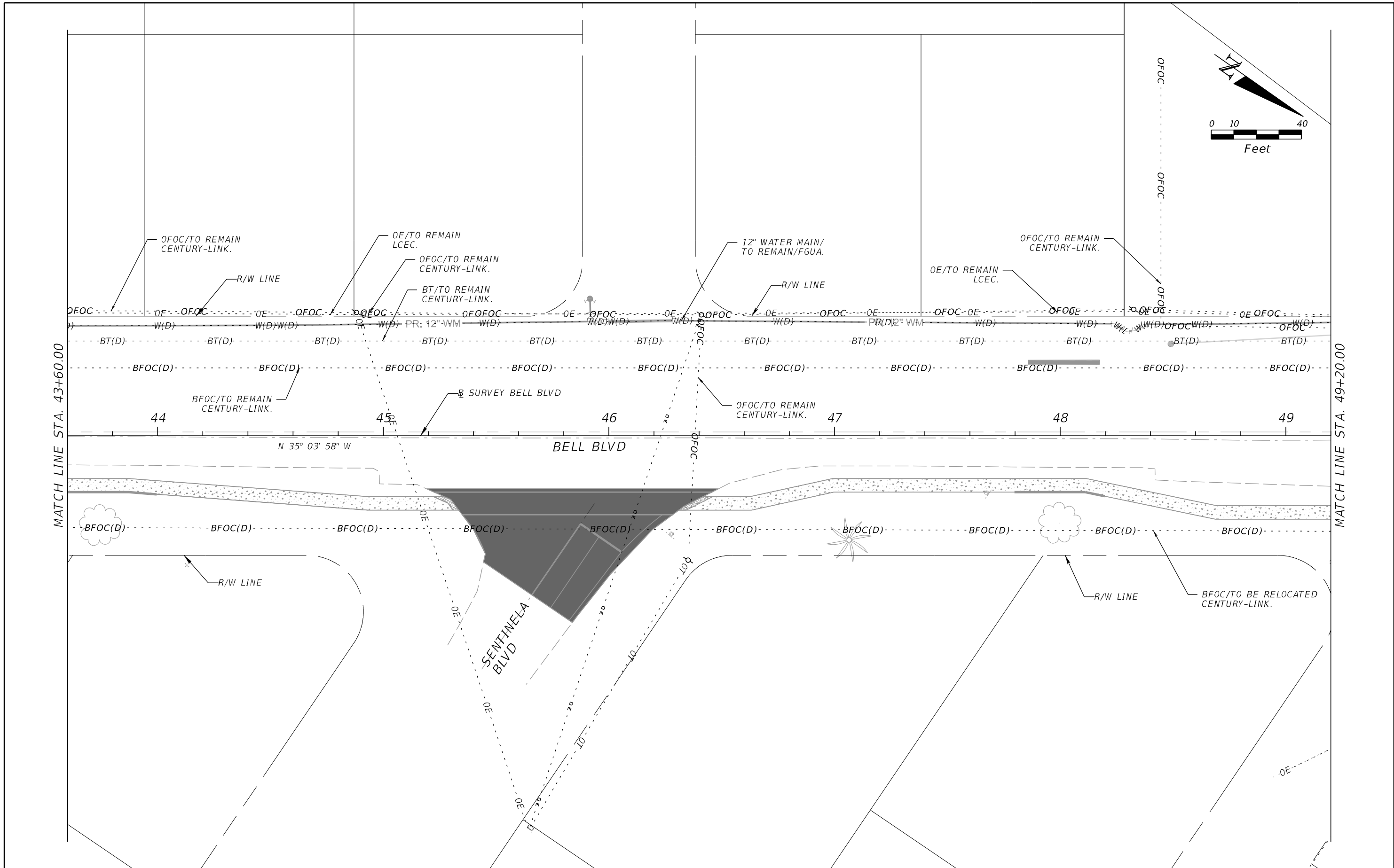
ROAD NO.	FINANCIAL PROJECT NO.
BELL BOULEVARD SIDEWALK, SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01

UTILITY ADJUSTMENTS

SHEET NO.
76

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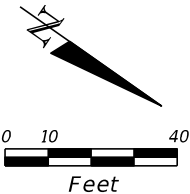
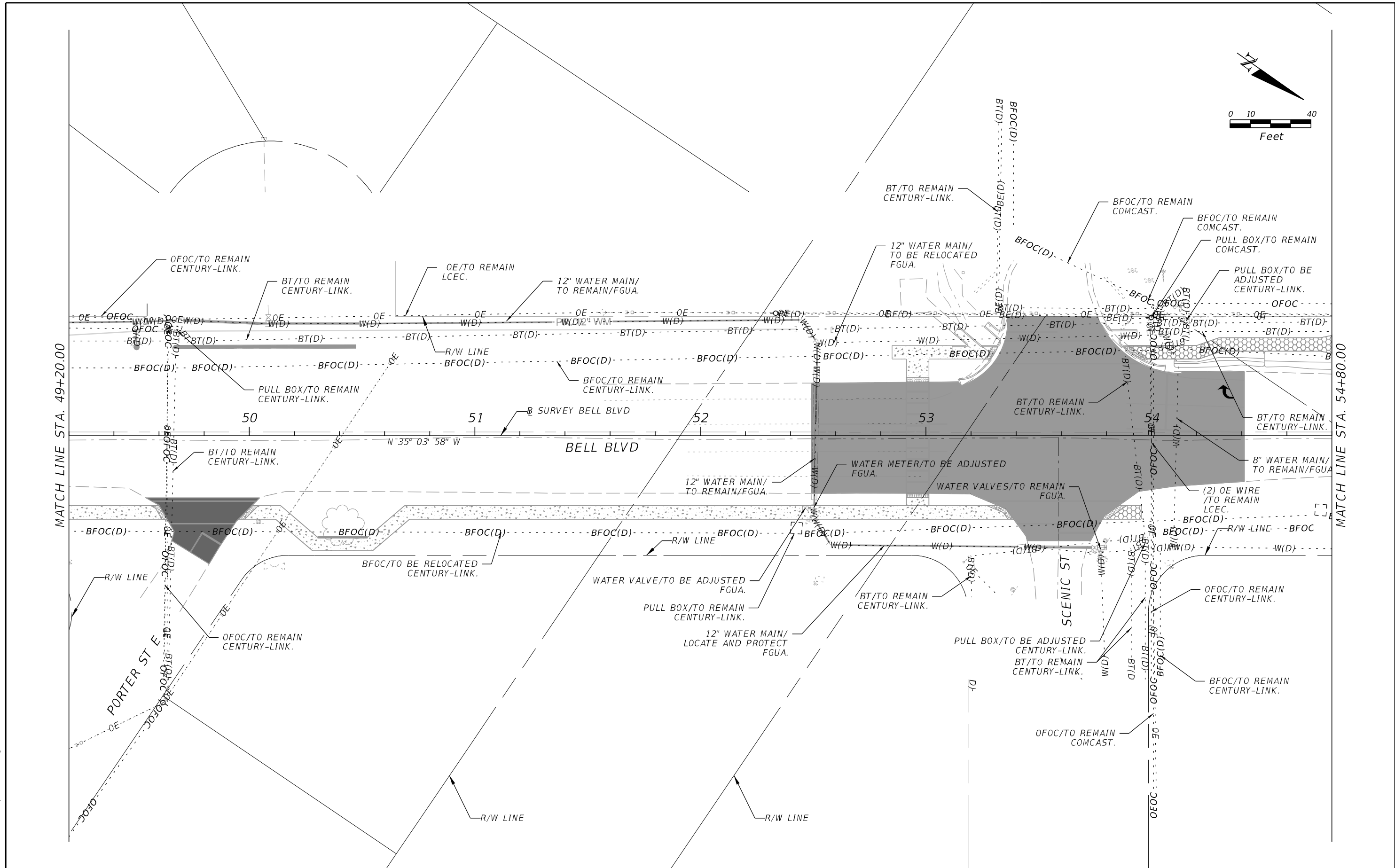
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		77
					BELL BOULEVARD SIDEWALK. SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		

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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		
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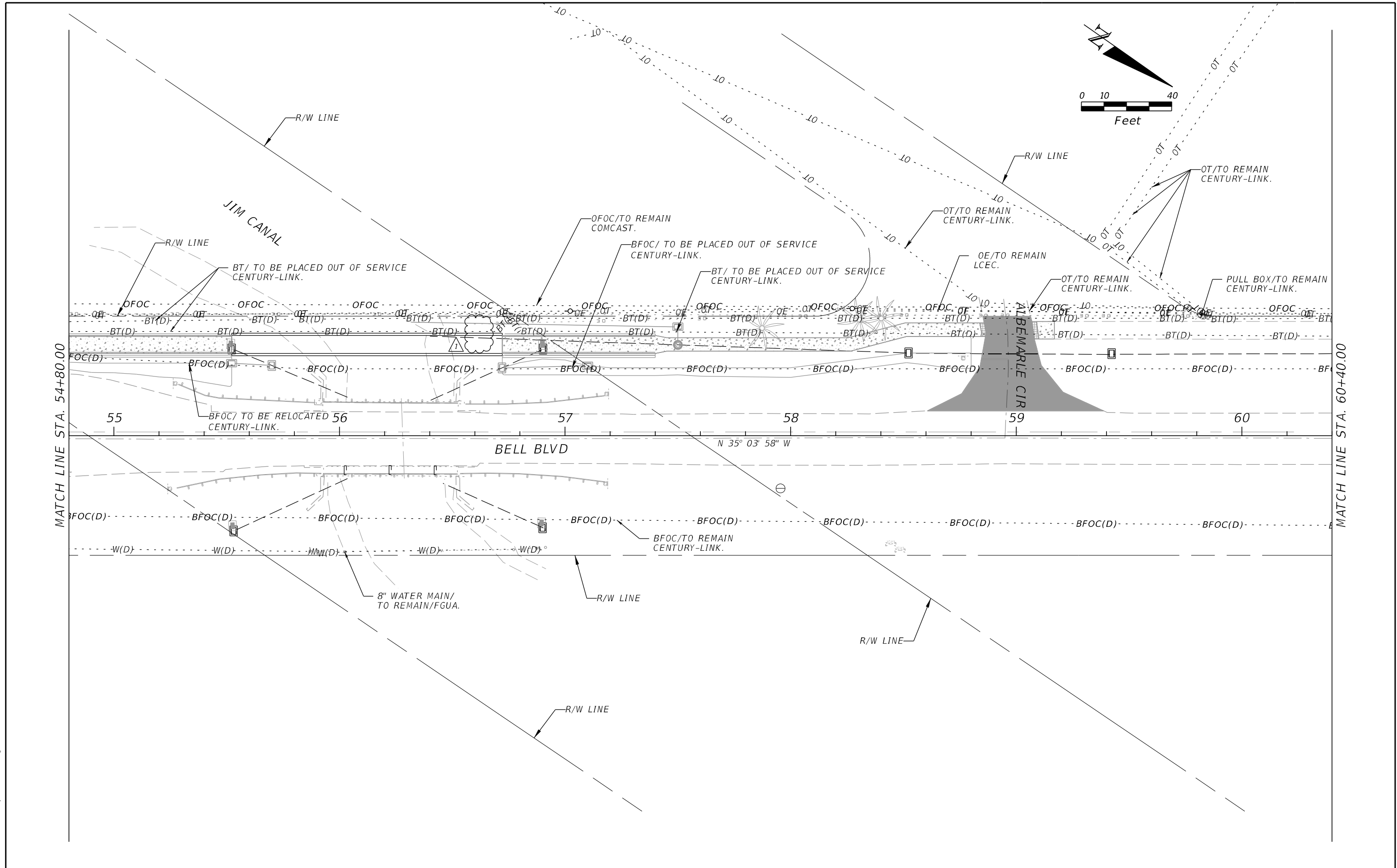
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DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	FINANCIAL PROJECT NO.		
5/13/25	1 REMOVED DRAINAGE STRUCTURES S-2A AND S-2B				BELL BOULEVARD SIDEWALK. SUNRISE BOULEVARD TO JOEL BOULEVARD	441901-1-58-01		79

Isa Hammadu

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INDEX OF STRUCTURE PLANS

SHEET NO.	SHEET DESCRIPTION
B-1	KEY SHEET
B-2	SIGNATURE SHEET
B-2A	SIGNATURE SHEET
BO-1	SUMMARY OF STRUCTURES QUANTITIES
B-3	GENERAL NOTES (1 OF 2)
B-4	GENERAL NOTES (2 OF 2)
B-5	PLAN AND ELEVATION (1 OF 2)
B-6	PLAN AND ELEVATION (2 OF 2)
B-7	TYPICAL SECTION
B-8	REPORT OF CORE BORINGS (1 OF 2)
B-9	REPORT OF CORE BORINGS (2 OF 2)
B-10	SPREAD FOOTING
B-11	END BENTS 1 & 2
B-12	END BENT DETAILS
B-13	APPROACH SLABS (1 OF 2)
B-14	APPROACH SLABS (2 OF 2)
B-15	REINFORCING BAR LIST
BP-1	PEDESTRIAN BRIDGE DATA (1 OF 4)
BP-2	PEDESTRIAN BRIDGE DATA (2 OF 4)
BP-3	PEDESTRIAN BRIDGE DATA (3 OF 4)
BP-4	PEDESTRIAN BRIDGE DATA (4 OF 4)
BW-1	PLAN - WALLS GW-1 AND GW-2
BW-2	ELEVATION - WALLS GW-1 AND GW-2
BW-3	PLAN - WALLS GW-3 AND GW-4
BW-4	ELEVATION - WALLS GW-3 AND GW-4
BW-5	MODIFICATIONS TO STANDARD PLANS, INDEX 400-011
BW-6	REPORT OF CORE BORINGS (1 OF 2)
BW-7	REPORT OF CORE BORINGS (2 OF 2)

INDEX OF STANDARD PLANS

SHEET NO.	SHEET DESCRIPTION
400-011	GRAVITY WALL
415-001	BAR BENDING DETAILS (STEEL)
458-110	EXPANSION JOINT SYSTEM - POURED JOINT WITH BACKER ROD
515-062	PEDESTRIAN/BICYCLE RAILING (ALUMINUM)

GOVERNING DESIGN STANDARDS:

FLORIDA DEPARTMENT OF TRANSPORTATION, FY2024-25 STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION AND APPLICABLE INTERIM REVISIONS (IRS).

STANDARD PLANS FOR ROAD CONSTRUCTION AND ASSOCIATED IRS ARE AVAILABLE AT THE FOLLOWING WEBSITE: [HTTP://WWW.FDOT.GOV/DESIGN/STANDARDPLANS](http://www.fdot.gov/design/standardplans)

APPLICABLE IRS: N/A

STANDARD PLANS FOR BRIDGE CONSTRUCTION ARE INCLUDED IN THE STRUCTURES PLANS COMPONENT

GOVERNING STANDARD SPECIFICATIONS:

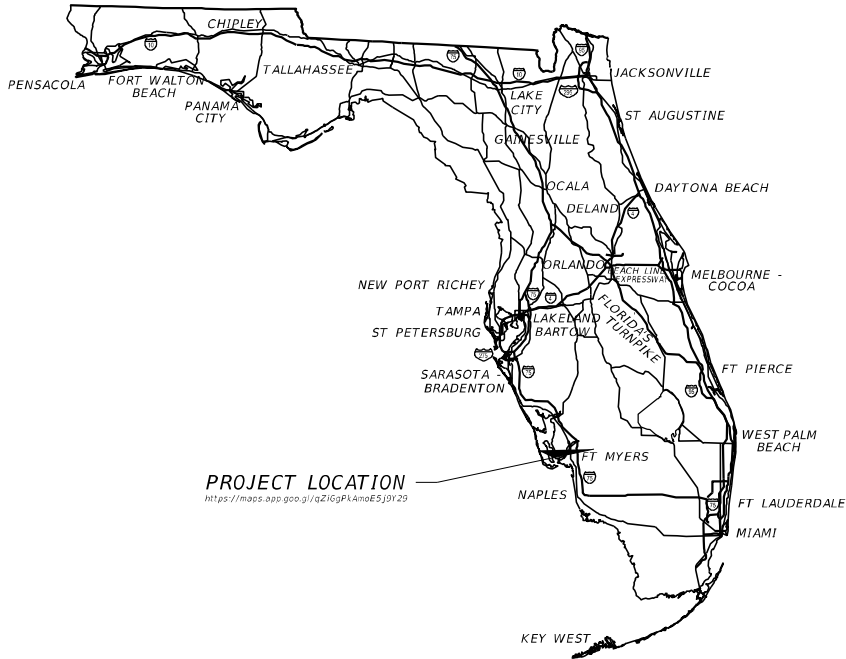
FLORIDA DEPARTMENT OF TRANSPORTATION, FY2024-25 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AT THE FOLLOWING WEBSITE: [HTTP://WWW.FDOT.GOV/PROGRAMMANAGEMENT/IMPLEMENTED/SPECBOOKS](http://www.fdot.gov/programmanagement/implemented/specbooks)

LEE COUNTY
DEPARTMENT OF TRANSPORTATION

CONTRACT PLANS
BELL BOULEVARD PEDESTRIAN BRIDGE
OVER JIM CANAL
FINANCIAL PROJECT ID 441901-1-58-01
(FEDERAL FUNDS)

LEE COUNTY

STRUCTURE PLANS



STRUCTURE PLANS

ENGINEER OF RECORD:

LUCIO MARTINEZ, P.E. NO. 82380
KISINGER CAMPO & ASSOCIATES, CORP.
13461 PARKER COMMONS BLVD., SUITE 104
FORT MYERS, FL 33912
(239) 278-5999
CERTIFICATE OF AUTHORIZATION NO.: 02317

LEE COUNTY PROJECT MANAGER:

KEITH RIDDLE, CGC

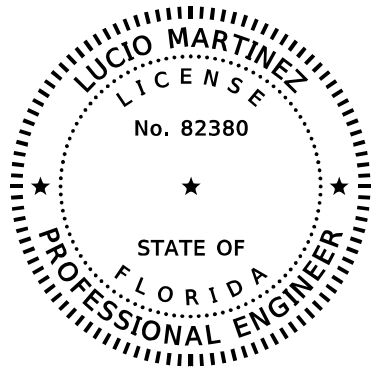
REVISIONS:

FINANCIAL PROJECT ID 441901-1-58-01
STRUCTURES SHEETS B-1, B-2A, B-5, BW-3 (REVISED 5/13/25)

KEY SHEET REVISIONS	
DATE	DESCRIPTION
05/13/25	ADDED SHEET B-2A TO INDEX

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
TBD	25	B-1

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



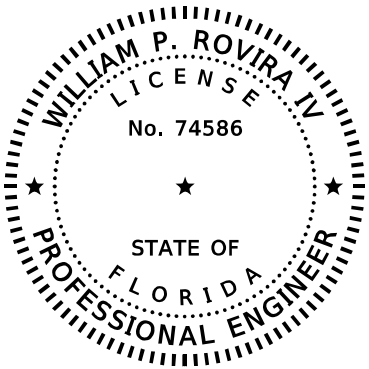
THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY

Lucio Martinez
2025.03.31
13:47:27-04'00'

ON THE DATE ADJACENT TO THE SEAL

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

KISINGER CAMPO & ASSOCIATES CORP.
13461 PARKER COMMONS BLVD.,
STE. 104
FORT MYERS, FL 33912
LUCIO MARTINEZ, PE NO. 82380



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY

William P Rovira IV
2025.03.31 13:27:43 -04'00'

ON THE DATE ADJACENT TO THE SEAL

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

TIERRA, INC.
7351 TEMPLE TERRACE HIGHWAY
TAMPA, FL 33637
WILLIAM P. ROVIRA IV, PE NO. 74586

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

STRUCTURE PLANS

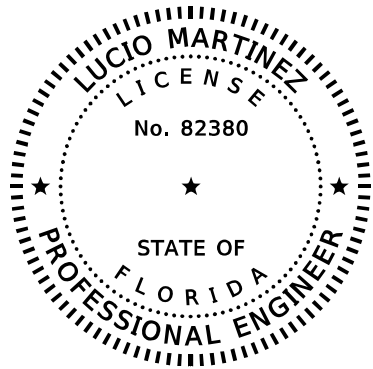
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B-1	KEY SHEET
B-2	SIGNATURE SHEET
BQ-1	SUMMARY OF STRUCTURES QUANTITIES
B-3	GENERAL NOTES (1 OF 2)
B-4	GENERAL NOTES (2 OF 2)
B-5	PLAN AND ELEVATION (1 OF 2)
B-6	PLAN AND ELEVATION (2 OF 2)
B-7	TYPICAL SECTION
B-10	SPREAD FOOTING
B-11	END BENTS 1 & 2
B-12	END BENT DETAILS
B-13	APPROACH SLABS (1 OF 2)
B-14	APPROACH SLABS (2 OF 2)
B-15	REINFORCING BAR LIST
BW-1	PLAN - WALLS GW-1 AND GW-2
BW-2	ELEVATION - WALLS GW-1 AND GW-2
BW-3	PLAN - WALLS GW-3 AND GW-4
BW-4	ELEVATION - WALLS GW-3 AND GW-4
BW-5	MODIFICATIONS TO STANDARD PLANS, INDEX 400-011

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

STRUCTURE PLANS

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
B-2	SIGNATURE SHEET
B-8	REPORT OF CORE BORINGS (1 OF 2)
B-9	REPORT OF CORE BORINGS (2 OF 2)
BW-6	REPORT OF CORE BORINGS (1 OF 2)
BW-7	REPORT OF CORE BORINGS (2 OF 2)

REVISIONS						KCA KISINGER CAMPO & ASSOCIATES 13461 Parker Commons Blvd., Ste. 104 Fort Myers, Florida 33912	DRAWN BY: YT 07-24	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE:	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CHECKED BY: LM 07-24				SIGNATURE SHEET	
							DESIGNED BY: YT 07-24	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
							CHECKED BY: LM 07-24	N/A	LEE	441901-1-58-01	BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL	B-2



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY

Lucio Martinez
2025.05.21
15:49:06-04'00'

ON THE DATE ADJACENT TO THE SEAL

PRINTED COPIES OF THIS DOCUMENT ARE
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KISINGER CAMPO & ASSOCIATES CORP.
13461 PARKER COMMONS BLVD.,
STE. 104
FORT MYERS, FL 33912
LUCIO MARTINEZ, PE NO. 82380

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

STRUCTURE PLANS

<u>SHEET NO.</u>	<u>SHEET DESCRIPTION</u>
B-1	KEY SHEET
B-2A	SIGNATURE SHEET
B-5	PLAN AND ELEVATION (1 OF 2)
BW-3	PLAN - WALLS GW-3 AND GW-4

REVISIONS						13461 Parker Commons Blvd., Ste. 104 Fort Myers, Florida 33912	DRAWN BY: <i>NG 05-25</i> CHECKED BY: <i>LM 05-25</i> DESIGNED BY: <i>NG 05-25</i> CHECKED BY: <i>LM 05-25</i>	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE: <i>SIGNATURE SHEET</i>	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
5/13/25	LM	 <i>NEW SHEET.</i>						N/A	LEE	441901-1-58-01	BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL	B-2A

SUMMARY OF STRUCTURE QUANTITIES - BELL BOULEVARD PEDESTRIAN BRIDGE										
SECTION	PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION	UNIT	QUANTITY		TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
					P	F	P	F		
LUMP SUM ITEMS	108-1	MONITOR EXISTING STRUCTURES - INSPECTION AND SETTLEMENT MONITORING	BRIDGE	LS	1		1		BRIDGE 124911	
	108-2	MONITOR EXISTING STRUCTURES - VIBRATION MONITORING	BRIDGE	LS	1		1		BRIDGE 124911	
SUBSTRUCTURE	400-1-30	CLASS I CONCRETE, SEAL	END BENT 1	CY	4.3		8.6			
			END BENT 2		4.3					
	400-2-5	CLASS II CONCRETE, SUBSTRUCTURE	END BENT 1	CY	15.9		31.8			
			END BENT 2		15.9					
	415-1-5	REINFORCING STEEL - BRIDGE SUBSTRUCTURE	END BENT 1	LB	3097		6194			
			END BENT 2		3097					
APPROACH SLABS	400-2-10	CLASS II CONCRETE, APPROACH SLABS	APPROACH SLAB 1	CY	2.6		5.2			
			APPROACH SLAB 2		2.6					
	415-1-9	REINFORCING STEEL - APPROACH SLABS	APPROACH SLAB 1	LB	420		840			
			APPROACH SLAB 2		420					
SUPERSTRUCTURE	460-7	PREFABRICATED STEEL PEDESTRIAN BRIDGE	BRIDGE	SF	960		960			
BARRIERS	515-2-311	PEDESTRIAN / BICYLCE RAILING, STEEL, 42" TYPE 1	GW-1	LF	72		278			
			GW-2		72					
			GW-3		67					
			GW-4		67					
WALLS	400-0-11	CONCRETE CLASS NS, GRAVITY WALL INDEX 400-011	GW-1	CY	19.8		79.9			
			GW-2		18.8					
			GW-3		18.3					
			GW-4		23.0					

REVISIONS						 13461 Parker Commons Blvd., Ste. 104 Fort Myers, Florida 33912 Engineer of Record: Lucio Martinez P.E. No.: 82380	DRAWN BY: JHJ 08-24 CHECKED BY: LM 08-24 DESIGNED BY: JHJ 08-24 CHECKED BY: LM 08-24	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE: SUMMARY OF STRUCTURES QUANTITIES	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								N/A	LEE	441901-1-58-01	PROJECT NAME: BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL	SHEET NO. BQ-1

DESIGN SPECIFICATIONS

- FDOT STRUCTURES MANUAL DATED JANUARY 2025 AND SUBSEQUENT STRUCTURES DESIGN BULLETINS.
- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LOAD AND RESISTANCE FACTOR DESIGN (LRFD) BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION.
- AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LOAD AND RESISTANCE FACTOR DESIGN (LRFD) GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, 2009 WITH 2015 INTERIMS.
- FDOT DESIGN MANUAL DATED JANUARY 2025 AND SUBSEQUENT ROADWAY DESIGN BULLETINS.

GOVERNING STANDARDS AND CONSTRUCTION SPECIFICATIONS

FLORIDA DEPARTMENT OF TRANSPORTATION, FY 2024-25 STANDARD PLANS AND REVISED INDEX DRAWINGS AS APPENDED HEREIN, AND FY 2024-25 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, AS AMENDED BY CONTRACT DOCUMENTS.

VERTICAL DATUM

ELEVATIONS ARE ACCORDING TO NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

ENVIRONMENT

ENVIRONMENTAL CLASSIFICATION	
SUPERSTRUCTURE	SUBSTRUCTURE (CONCRETE)
SLIGHTLY AGGRESSIVE	SLIGHTLY AGGRESSIVE

DESIGN METHODOLOGY

- LOAD AND RESISTANCE FACTOR DESIGN (LRFD) METHOD USING STRENGTH, SERVICE, AND FATIGUE LIMIT STATES.
- REDUNDANCY FACTORS
 - STEEL TRUSS BRIDGES $\eta = 1.20$
- OPERATIONAL IMPORTANCE FACTOR
 - ALL BRIDGES $\eta = 1.00$

DESIGN LOADINGS

- LIVE LOADS:

PEDESTRIAN LOAD: 90 PSF
- DEAD LOADS:

REINFORCED CONCRETE = 150 PCF

DESIGN DOES NOT INCLUDE AN ALLOWANCE OF 15 PSF FOR FUTURE WEARING SURFACE.
- WIND LOADS:

WIND LOADS IN ACCORDANCE WITH CHAPTER 2.4 OF THE FDOT STRUCTURES MANUAL.
- CONSTRUCTION LOADS:

CONSTRUCTION INACTIVE DESIGN WIND SPEED: 90 MPH

VELOCITY PRESSURE EXPOSURE COEFFICIENT (Kz): 1.00

CONSTRUCTION ACTIVE DESIGN WIND SPEED: 30 MPH
- THERMAL DATA:

	MEAN	RISE FROM MEAN	FALL FROM MEAN	RANGE
CONCRETE	70 °F	35 °F	35 °F	70 °F
STEEL TRUSS	70 °F	50 °F	40 °F	90 °F

CONCRETE COEFFICIENT OF THERMAL EXPANSION = 6x10⁻⁶/°F

STEEL COEFFICIENT OF THERMAL EXPANSION = 6.5x10⁻⁶/°F

6. UTILITIES:

NO ALLOWANCE FOR UTILITY LOADS HAS BEEN INCLUDED IN THE DESIGN.

MATERIALS

- REINFORCING STEEL: GRADE 60 CARBON STEEL PER SPECIFICATION SECTION 931.
- CONCRETE:

CONCRETE CLASS	MINIMUM 28-DAY COMPRESSIVE STRENGTH (PSI)	LOCATION IN STRUCTURE
II	3400	C.I.P. SUBSTRUCTURE
II (BRIDGE DECK)	4500	APPROACH SLABS

- CONCRETE COVER:

CAST-IN-PLACE SUPERSTRUCTURE	2"
C.I.P. SUBSTRUCTURE (CAST AGAINST EARTH)	4"
C.I.P. SUBSTRUCTURE (FORMED SURFACES)	3"
C.I.P. SUBSTRUCTURE (TOP OF BEAM PEDESTALS)	2"

CONCRETE COVER DIMENSIONS SHOWN IN THE PLANS DO NOT INCLUDE PLACEMENT AND FABRICATION TOLERANCES UNLESS SHOWN AS "MINIMUM COVER". SEE SPECIFICATIONS SECTION 415 FOR ALLOWABLE TOLERANCES. ALL DIMENSIONS PERTAINING TO THE LOCATION OF REINFORCING STEEL ARE TO CENTERLINE OF BAR EXCEPT WHERE CLEAR DIMENSIONS NOTED TO FACE OF CONCRETE.

CONCRETE SURFACE FINISH

CLASS 2 OR CLASS 4 FINISH SHALL BE APPLIED TO THE PORTIONS OF THE STRUCTURES SHOWN ON THE SURFACE FINISH DETAILS.

PLAN DIMENSIONS

ALL DIMENSIONS IN THESE PLANS ARE MEASURED IN FEET EITHER HORIZONTALLY OR VERTICALLY UNLESS OTHERWISE NOTED.

UTILITIES

FOR PLAN LOCATIONS OF EXISTING UTILITIES, SEE PLAN AND ELEVATION SHEETS. LOCATIONS OF UTILITIES, SHOWN IN THE PLANS ARE APPROXIMATE. FOR DISPOSITION OF UTILITIES SEE THE UTILITY ADJUSTMENT SHEETS IN THE ROADWAY PLANS.

CONCRETE DETAILS

PROVIDE ¾" CHAMFERS ON ALL EXPOSED EDGES EXCEPT AS OTHERWISE NOTED. CONSTRUCTION JOINTS WILL BE PERMITTED ONLY AT LOCATIONS INDICATED ON THE PLANS. ADDITIONAL CONSTRUCTION JOINTS OR ALTERATIONS TO THOSE SHOWN SHALL REQUIRE APPROVAL OF THE ENGINEER.

SCREEDING DECKS

SCREED THE SURFACE OF THE BRIDGE DECK AND APPROACH SLABS TO ACHIEVE THE FINISH GRADE ELEVATIONS SHOWN IN THE PLANS. ACCOUNT FOR THEORETICAL DEFLECTIONS DUE TO SELF WEIGHT, DECK CASTING SEQUENCE, DECK FORMING SYSTEMS, CONSTRUCTION LOADS, AND TEMPORARY SHORING, ETC., AS REQUIRED.

PHASING OF WORK

WORK PHASING AND PROGRESSION OF THE WORK SHALL CONFORM TO THE TRAFFIC CONTROL PLANS LOCATED IN THE ROADWAY PLANS.

PAY ITEM NOTES

- PAYMENT FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN THE INDIVIDUAL BID ITEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE BID ITEMS.
- FIELD REVIEW THE PROJECT PRIOR TO PREPARING THE BID. LEE COUNTY DOES NOT ASSUME ANY LIABILITIES THAT MAY ARISE FROM FAILURE TO PROPERLY REVIEW THE PROJECT SITE PRIOR TO PREPARING THE BID.
- SEPARATE PAYMENT FOR THE COST OF UTILIZING OPTIONAL #57 STONE AND FILTER FABRIC METHOD OF FOOTING CONSTRUCTION, AS NOTED ON SPREAD FOOTING SHEET, IS NOT INCLUDED AS IT IS CONSIDERED MEANS AND METHODS

REVISIONS						KCA KISINGER CAMPO & ASSOCIATES 13461 Parker Commons Blvd., Ste. 104 Fort Myers, Florida 33912 Engineer of Record: Lucio Martinez P.E. No.: 82380	DRAWN BY: YT 07-24	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		GENERAL NOTES (1 OF 2)						
							CHECKED BY: LM 07-24						
							DESIGNED BY: YT 07-24	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.	
							CHECKED BY: LM 07-24	N/A	LEE	441901-1-58-01	BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL	B-3	

STRUCTURAL STEEL TRUSS

- 1. STRUCTURAL STEEL TRUSSES TO BE DESIGNED BY A FLORIDA PROFESSIONAL ENGINEER AND FABRICATED BY THE CONTRACTOR'S PROPRIETARY TRUSS SUPPLIER. THE TRUSSES ARE TO BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE CONTRACT PLANS, INCLUDING REFERENCED DESIGN SPECIFICATIONS, SECTION 10 OF THE FDOT STRUCTURES DESIGN GUIDELINES AND THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- 2. SUBMIT SHOP DRAWINGS AND CALCULATIONS SHOWING STRUCTURAL STEEL COMPONENTS, STRUCTURAL STEEL DETAILS, AND THE ASSEMBLY AND ERECTION SCHEME TO THE ENGINEER OF RECORD AND FDOT FOR REVIEW. SHOP DRAWINGS AND CALCULATIONS ARE TO BE SIGNED AND SEALED BY FLORIDA PROFESSIONAL ENGINEER.
- 3. THE CONTRACTOR'S SPECIALTY ENGINEER IS RESPONSIBLE FOR DESIGNING A FALSEWORK SYSTEM CAPABLE OF SUPPORTING THE SUPERSTRUCTURE DURING ERECTION.

CHARPY V-NOTCH

ALL MEMBERS SUBJECTED TO TENSILE STRESSES IDENTIFIED AS MAIN LOAD CARRYING MEMBERS SHALL BE TESTED IN ACCORDANCE WITH SPECIFICATION SECTION 962.

STEEL FABRICATION

- 1. INDICATE ALL SPLICES ON THE SHOP DRAWINGS.
- 2. SHOP ASSEMBLIES ARE REQUIRED IN ACCORDANCE WITH SPECIFICATION SECTION 460.

WELDING

- 1. PERFORM NON-DESTRUCTIVE TESTING ON WELDS AS REQUIRED BY THE 2020 EDITION OF THE AASHTO/AWS D1.5 BRIDGE WELDING CODE.
- 2. FIELD WELDING TO ANY STRUCTURAL STEEL FOR THE PURPOSE OF ATTACHING ERECTION HARDWARE SHALL BE FORMALLY SUBMITTED TO THE ENGINEER FOR APPROVAL.
- 3. FIELD WELDING SHALL BE PER REQUIREMENTS OF AASHTO/AWS D1.5 FOR NON-ANCILLARY ITEMS. REPLACE BEARINGS DAMAGED BY FIELD WELDING AT THE CONTRACTOR'S EXPENSE.

STEEL TRUSS COATING

PAINT ALL STEEL WITH A HIGH PERFORMANCE COATING SYSTEM. THE COLOR OF THE FINISH COAT SHALL CONFORM TO AEROSPACE MATERIAL SPECIFICATION STANDARD NO. 595. THE COLOR SHALL MATCH SHERWIN WILLIAMS SW4005, CYLINDER CREAM.

ELIGIBLE STEEL TRUSS PEDESTRIAN PRODUCERS

INCLUDED IN THIS PLAN SET ARE PEDESTRIAN BRIDGE DATA SHEETS SUBMITTED BY BRIDGE PRODUCERS ELIGIBLE TO PARTICIPATE IN THIS PROJECT. PRODUCERS WHO FAILED TO SUBMIT A DATA SHEET ARE EXCLUDED FROM PARTICIPATION. NO COST SAVINGS INITIATIVE PROPOSAL WILL BE ACCEPTED FOR THE TRUSS SUPERSTRUCTURE PORTION OF THE PROJECT. CONTACT INFORMATION FOR THE ELIGIBLE PRODUCERS IS INCLUDED IN THE DATA SHEET.

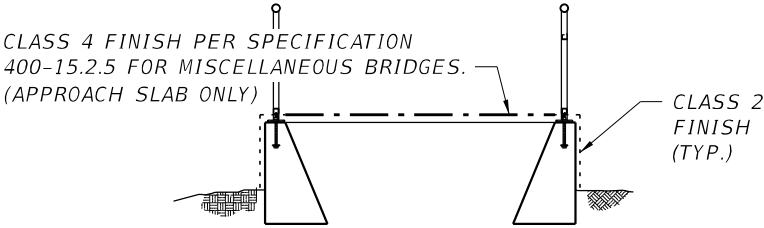
PEDESTRIAN/BICYCLE RAILING

PROVIDE SHOP DRAWINGS FOR THE PEDESTRIAN/BICYCLE RAILINGS MEETING THE REQUIREMENTS OF STANDARD PLANS INDEX 515-061 AND 515-062. SHOP DRAWINGS MUST SHOW POST SPACINGS AND ACCOMODATE EXPANSION JOINT LOCATIONS SHOWN IN THE PLANS.

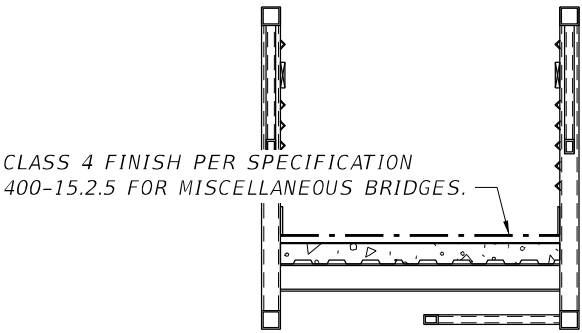
ABBREVIATIONS

- CLR. CLEAR
- EF EACH FACE
- FF FAR FACE
- FFBW FRONT FACE BACKWALL
- FFRW FRONT FACE RETAINING WALL
- NF NEAR FACE
- UNO UNLESS NOTED OTHERWISE
- LMVC LOCATION OF MINIMUM VERTICAL CLEARANCE

SURFACE FINISH DETAILS

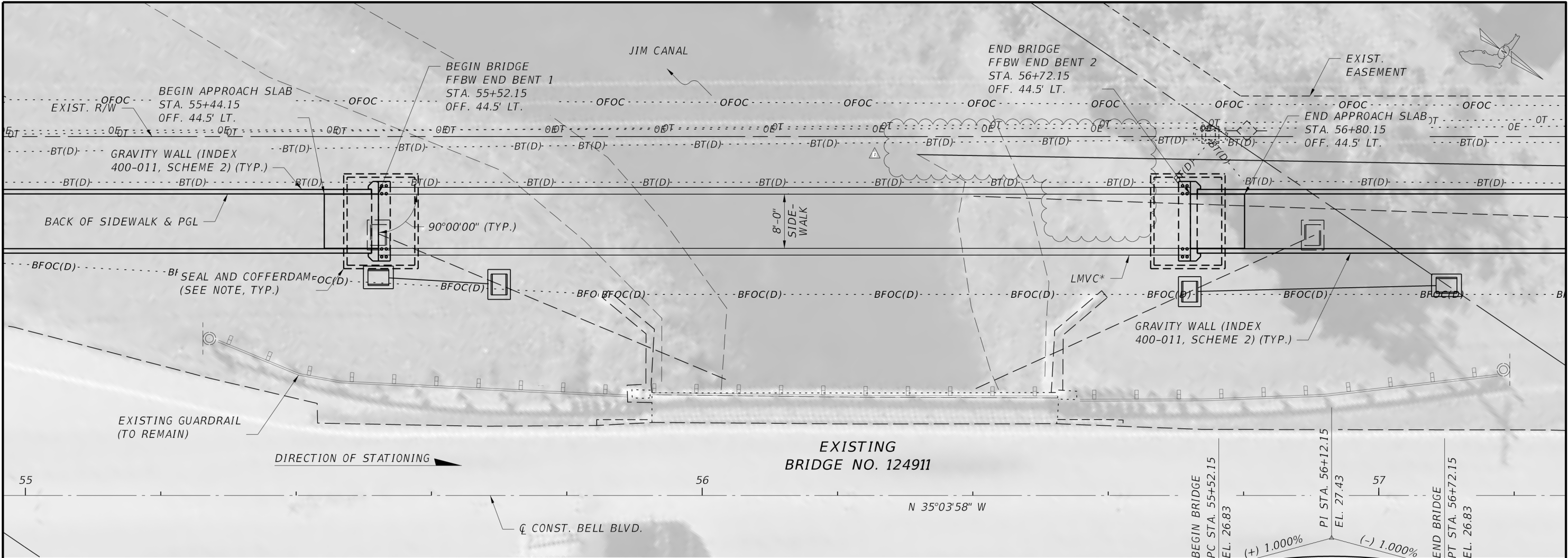


GRAVITY WALL

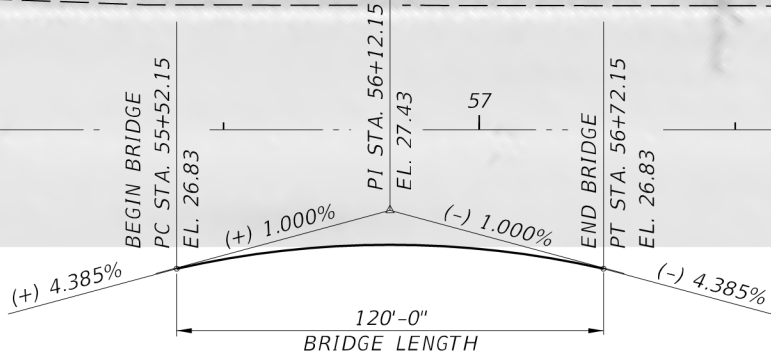


BRIDGE

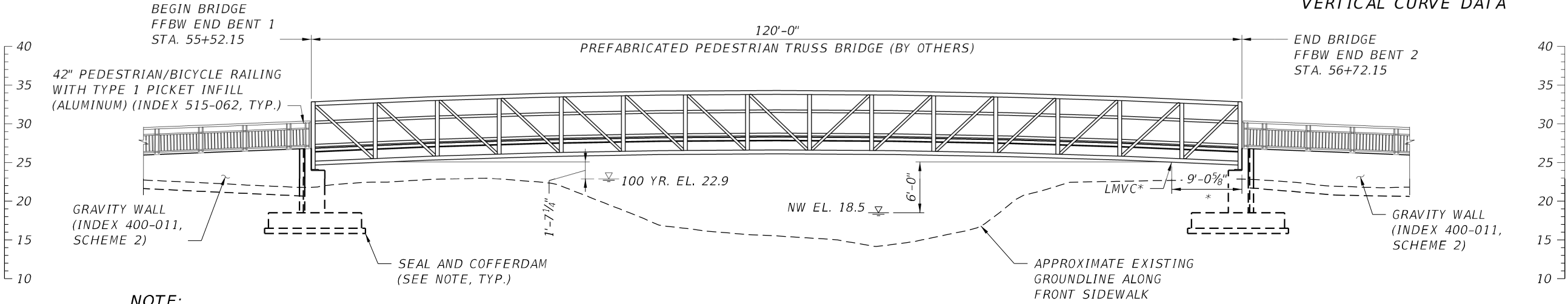
REVISIONS						KCA KISINGER CAMPO & ASSOCIATES 13461 Parker Commons Blvd., Ste. 104 Fort Myers, Florida 33912 Engineer of Record: Lucio Martinez P.E. No.: 82380	DRAWN BY: YT 07-24			LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE: GENERAL NOTES (2 OF 2)		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION										
								CHECKED BY: LM 07-24							
								DESIGNED BY: YT 07-24	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.		
								CHECKED BY: LM 07-24	N/A	LEE	441901-1-58-01	BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL	B - 4		



PLAN



VERTICAL CURVE DATA



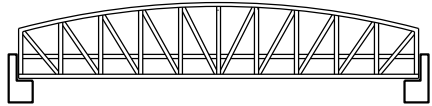
- NOTE:**
1. SUBMIT SEAL AND COFFERDAM SHOP DRAWINGS TO ENGINEER FOR APPROVAL.
 2. SEE ROADWAY PLANS FOR DRAINAGE DETAILS AND DISPOSITION OF UTILITIES.

ELEVATION

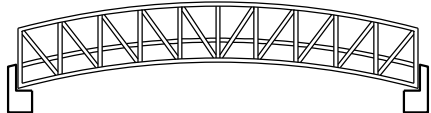
* LOCATION OF MINIMUM VERTICAL CLEARANCE. DIMENSION IS TYPICAL FROM BEGIN AND END BRIDGE. LOW MEMBER ELEVATION = 24.5

REVISIONS						DRAWN BY: LM 06-24	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE: PLAN AND ELEVATION (1 OF 2)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
5/13/25	LM	△ DRAINAGE STRUCTURES REMOVED AND EXTENDED PROPOSED PIPE				CHECKED BY: JHJ 06-24	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL	SHEET NO. B-5
						DESIGNED BY: LM 06-24	N/A	LEE	441901-1-58-01		
						CHECKED BY: JHJ 06-24					

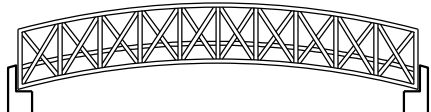
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Fort Myers, Florida 33912
Engineer of Record: Lucio Martinez
P.E. No.: 82380



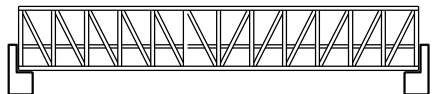
TRUSS 1



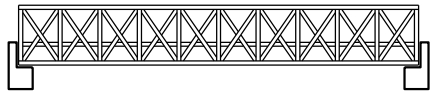
TRUSS 2



TRUSS 3



TRUSS 4



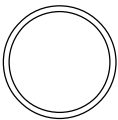
TRUSS 5

TRUSS CONFIGURATIONS

ALLOWABLE TRUSS CONFIGURATIONS					
	TRUSS 1	TRUSS 2	TRUSS 3	TRUSS 4	TRUSS 5
Permitted (Y/N)	N	Y	Y	N	N



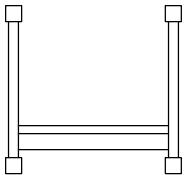
SHAPE 1
(STRUCTURAL TUBE)



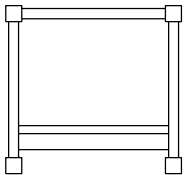
SHAPE 2
(STRUCTURAL PIPE)

TRUSS MEMBER SHAPES

ALLOWABLE TRUSS MEMBER SHAPES		
	SHAPE 1	SHAPE 2
Permitted (Y/N)	Y	Y



SECTION 1
(THROUGH TRUSS)



SECTION 2
(BOX TRUSS)

BRIDGE CROSS-SECTIONS

ALLOWABLE BRIDGE * CROSS-SECTIONS		
	SECTION 1	SECTION 2
Permitted (Y/N)	Y	N

* THROUGH TRUSS BRIDGES ARE ACCEPTABLE ONLY FOR SPANS LESS THAN OR EQUAL TO 150'. FOR SPANS OVER 150' BOX TRUSS BRIDGES ARE REQUIRED.

NOTES:

1. ELIGIBLE PEDESTRIAN BRIDGE PRODUCERS

INCLUDED IN THIS PLAN SET ARE PEDESTRIAN BRIDGE DATA SHEETS SUBMITTED BY BRIDGE PRODUCERS ELIGIBLE TO PARTICIPATE IN THIS PROJECT. PRODUCERS WHO FAILED TO SUBMIT A DATA SHEET ARE EXCLUDED FROM PARTICIPATION. NO COST SAVINGS INITIATIVE PROPOSAL SHALL BE ACCEPTED FOR THE TRUSS SUPERSTRUCTURE PORTION OF THE PROJECT. CONTACT INFORMATION FOR THE ELIGIBLE PRODUCERS IS INCLUDED IN THE DATA SHEETS.

2. ALLOWABLE SUPERSTRUCTURE OPTIONS

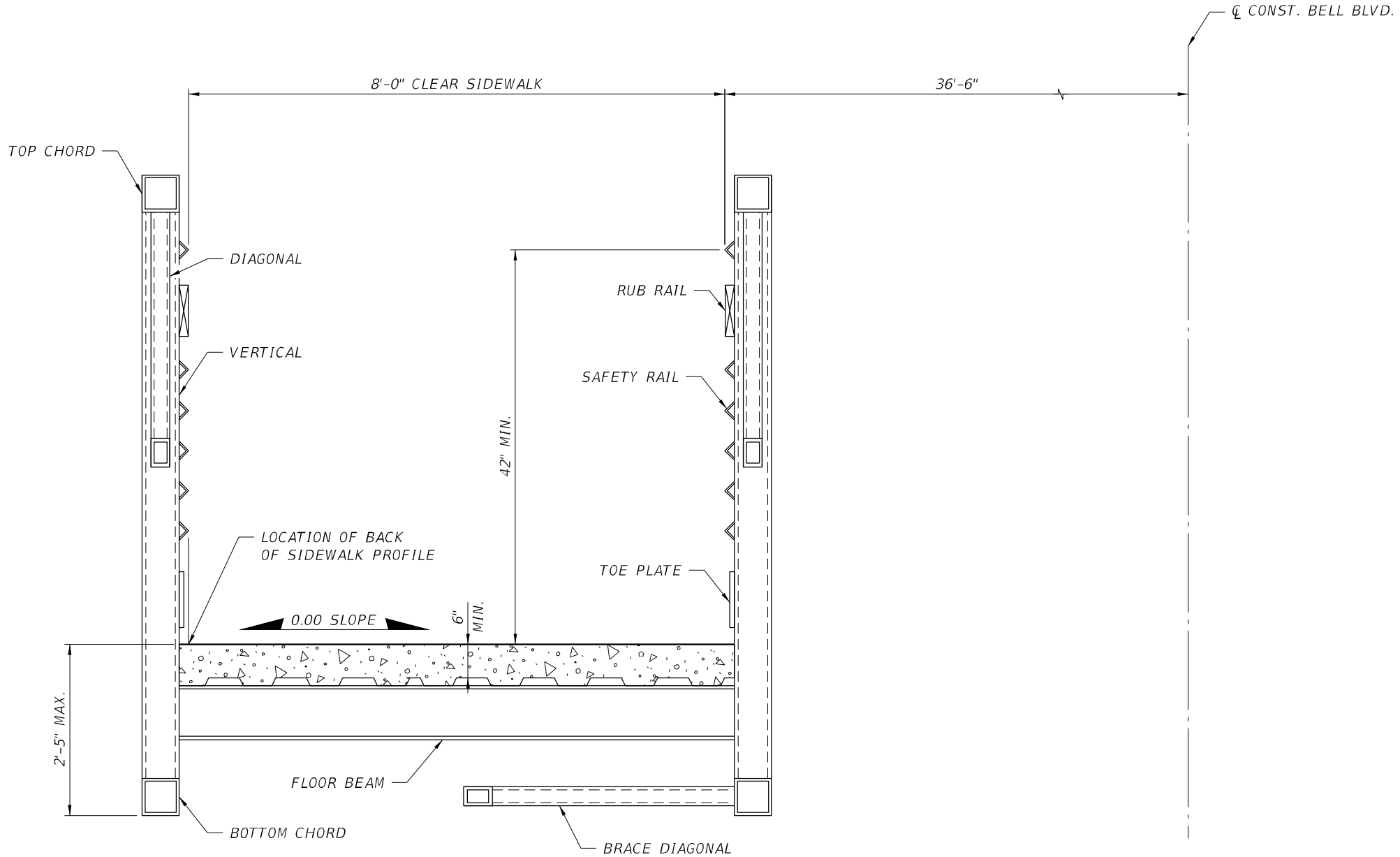
ALL ALLOWABLE SUPERSTRUCTURE OPTIONS ARE INDICATED BY A "Y" IN THE TABLES ON THIS SHEET. FOR MULTI-SPAN BRIDGES USE THE SAME TRUSS BRIDGE OPTIONS AND DEPTH OF TRUSS FOR EACH SPAN.

3. SHOP DRAWING SUBMITTAL

PRIOR TO FABRICATION THE EOR SHALL SUBMIT SIGNED AND SEALED SUPERSTRUCTURE SHOP DRAWINGS, TECHNICAL SPECIFICATIONS, AND CALCULATIONS TO THE ENGINEER FOR REVIEW AND APPROVAL.

REVISIONS						DRAWN BY: LM 07-24	CHECKED BY: JHJ 07-24	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE: PLAN AND ELEVATION (2 OF 2)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
						DESIGNED BY: LM 07-24		N/A	LEE	441901-1-58-01	PROJECT NAME: BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL	SHEET NO. B-6

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Engineer of Record: Lucio Martinez
P.E. No.: 82380



NOTE:
THE DEPICTED PREFABRICATED STEEL TRUSS SPAN IS GIVEN ONLY AS A GENERAL EXAMPLE. FINAL TRUSS GEOMETRY MAY DIFFER BASED ON CONTRACTOR-SELECTED MANUFACTURER.

TYPICAL SECTION

REVISIONS						DRAWN BY: LM 06-24	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE: TYPICAL SECTION	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
						CHECKED BY: JHJ 06-24	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL	SHEET NO.
						DESIGNED BY: LM 06-24	N/A	LEE	441901-1-58-01		B-7
						CHECKED BY: JHJ 06-24					

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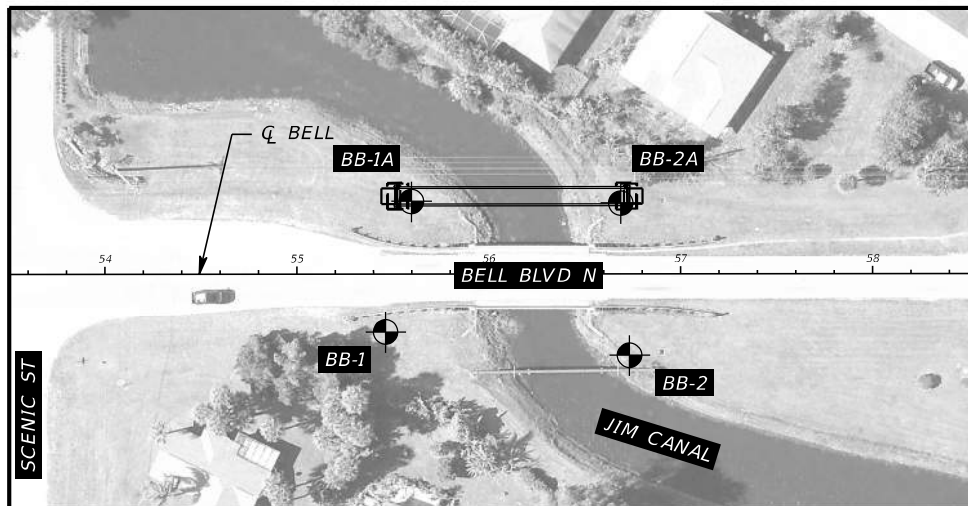
lmartinez

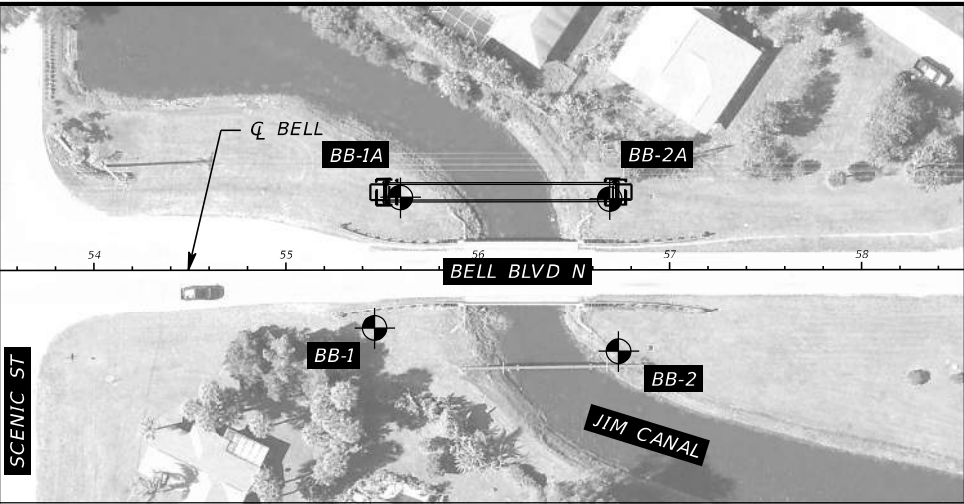
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NOTICE: THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE DIGITALLY SIGNED AND SEALED UNDER RULE 61G15-23.004, F.A.C.

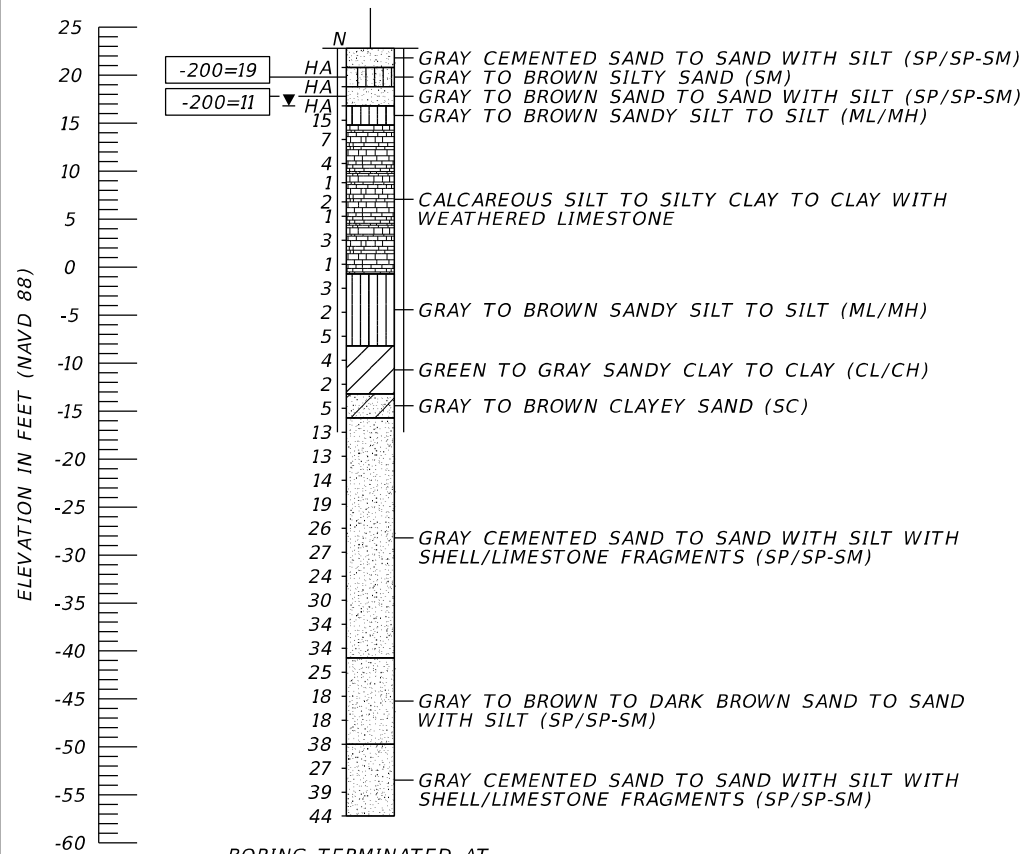




BORING LOCATION PLAN

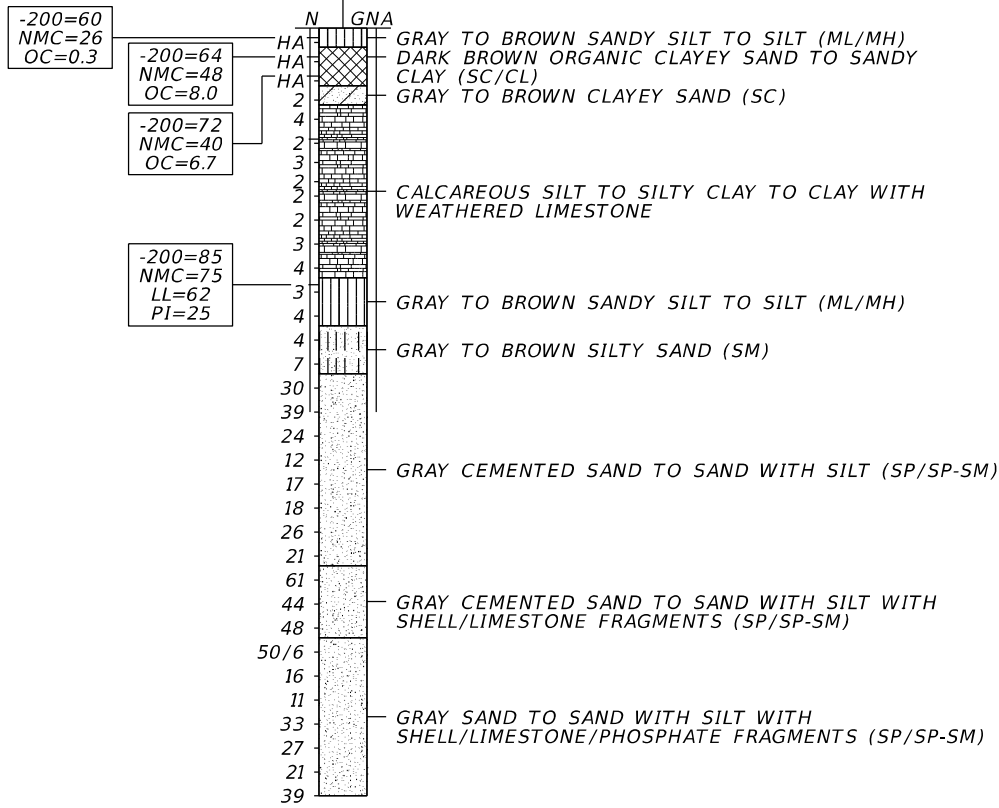
BOR # BB-2A
STA. 56+69
REF. Q BELL
OFF. 37' LT
ELEV. 22.8
DATE 11/26/2024
DRILLER M. ATKINSON
HAMMER AUTOMATIC
RIG D-25

BOR # BB-2
STA. 56+73
REF. Q BELL
OFF. 42' RT.
ELEV. 22.3
DATE 10/12/2023
DRILLER C. VIRGEN
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED AT
ELEVATION -57.2 FT (NAVD 88)

LATITUDE: N 26.60063
LONGITUDE: W 81.60981



BORING TERMINATED AT
ELEVATION -57.7 FT (NAVD 88)

LATITUDE: N 26.60076
LONGITUDE: W 81.60962

ENVIRONMENTAL CLASSIFICATION:
SUBSTRUCTURE CONCRETE: SLIGHTLY AGGRESSIVE
SUBSTRUCTURE STEEL: MODERATELY AGGRESSIVE
SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

SOIL TEST RESULTS:
RESISTIVITY 7,100 OHM-CM
CHLORIDES 75 PPM
SULFATES 15 PPM
pH 8.4

WATER TEST RESULTS:
RESISTIVITY 3,400 OHM-CM
CHLORIDES 30 PPM
SULFATES 10 PPM
pH 8.2

- NOTES:
- THE LOCATIONS OF THE BORINGS WERE MEASURED IN THE FIELD USING A HAND-HELD GPS DEVICE AND SHOULD BE CONSIDERED APPROXIMATE.
 - THE ELEVATIONS OF THE BORINGS WERE ESTIMATED USING DESIGN FILES PROVIDED BY KCA AND SHOULD BE CONSIDERED APPROXIMATE.
 - BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL, FLORIDA" MAP PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER AT THE BRIDGE CROSSING LOCATION RANGES FROM APPROXIMATELY +40 TO +50 FEET, NGVD 29. THE CONTRACTOR'S TOOLS AND CONSTRUCTION METHODS SHALL BE ADEQUATE TO HANDLE A POTENTIOMETRIC SURFACE CONDITION OF UP TO +50 FEET, NGVD 29, AT NO ADDITIONAL COST TO THE COUNTY.

LEGEND

	SAND (SP/SP-SM)		CLAY (CL/CH)
	SILTY SAND (SM)		WEATHERED LIMESTONE
	CLAYEY SAND (SC)		ORGANIC CLAYEY SAND TO SANDY CLAY (SC/CL)
	SILT (ML/MH)		

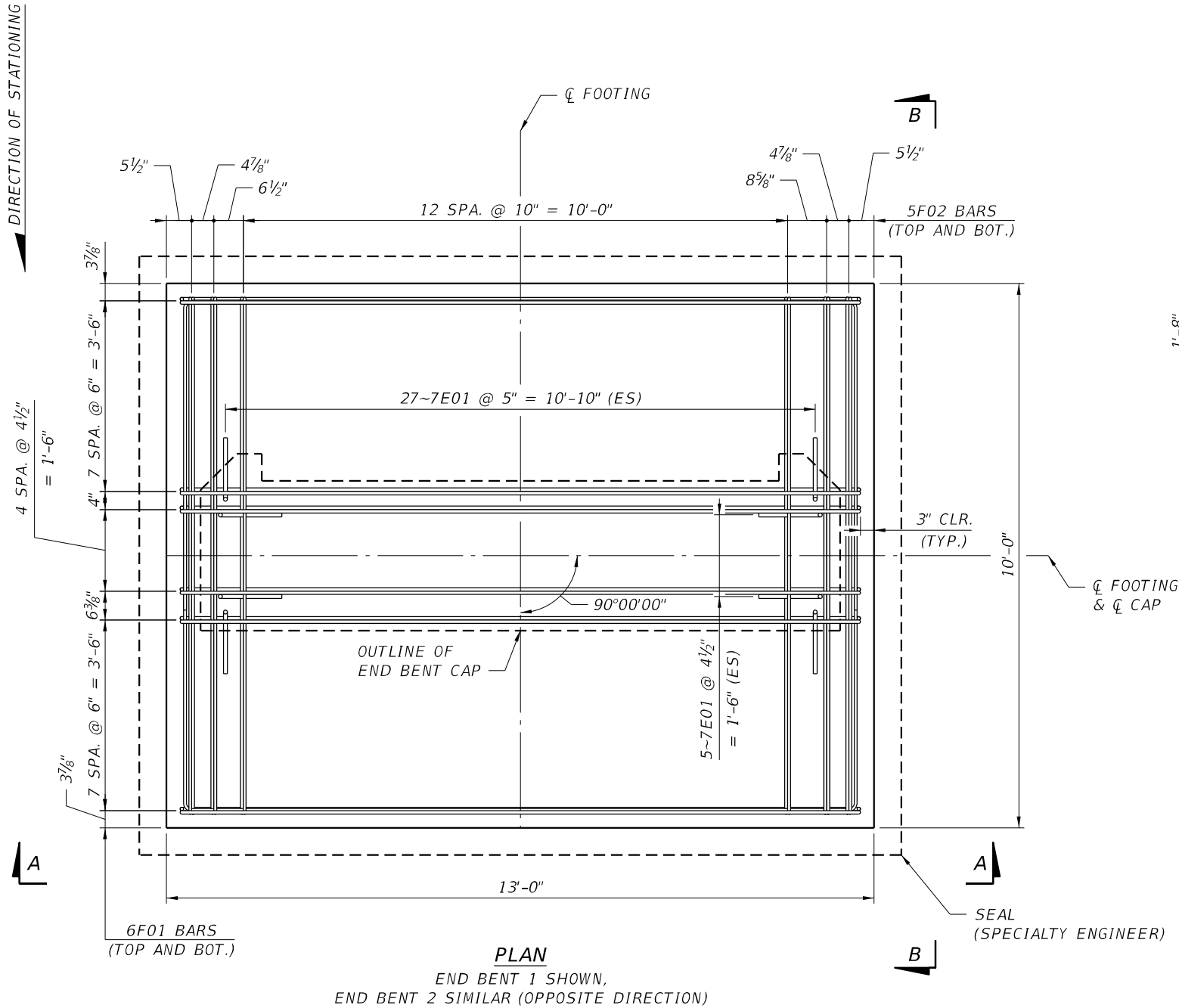
SP	UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
N	NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
50/4	NUMBER OF BLOWS FOR 4 INCHES OF PENETRATION
HA	HAND AUGERED TO VERIFY UTILITY CLEARANCE
WH	SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER
-200	PERCENT PASSING #200 SIEVE
NMC	NATURAL MOISTURE CONTENT (%)
LL	LIQUID LIMIT (%)
PI	PLASTICITY INDEX (%)
OC	ORGANIC CONTENT (%)

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

	APPROXIMATE SPT BORING LOCATION
	GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
GNA	GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.
	LOSS OF CIRCULATION OF DRILLING FLUID (%)
	CASING
Q BELL	CENTERLINE CONSTRUCTION BELL BOULEVARD

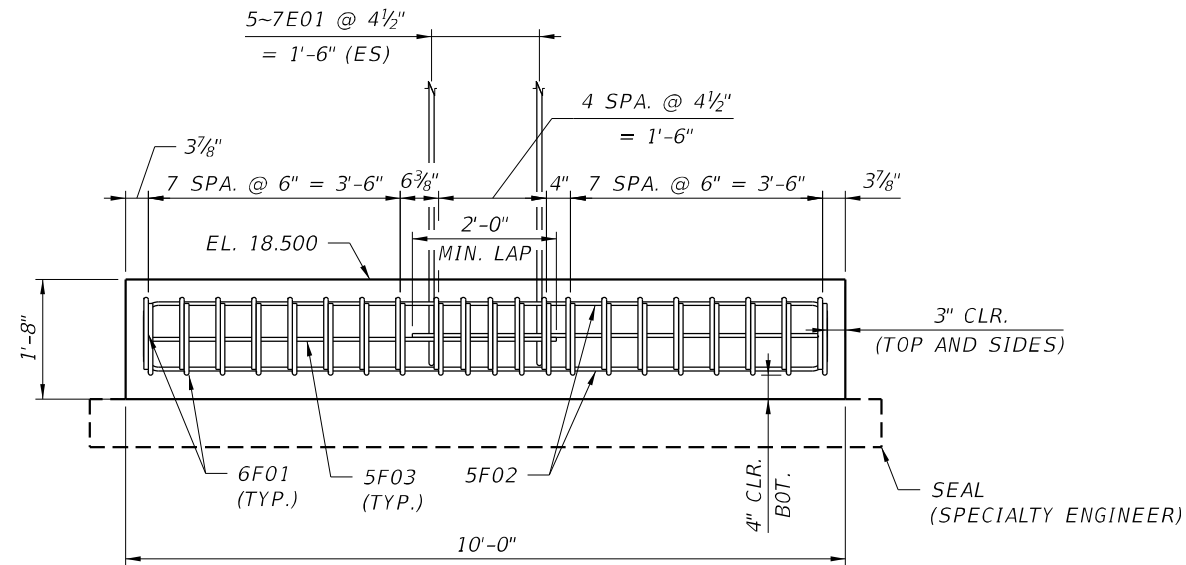
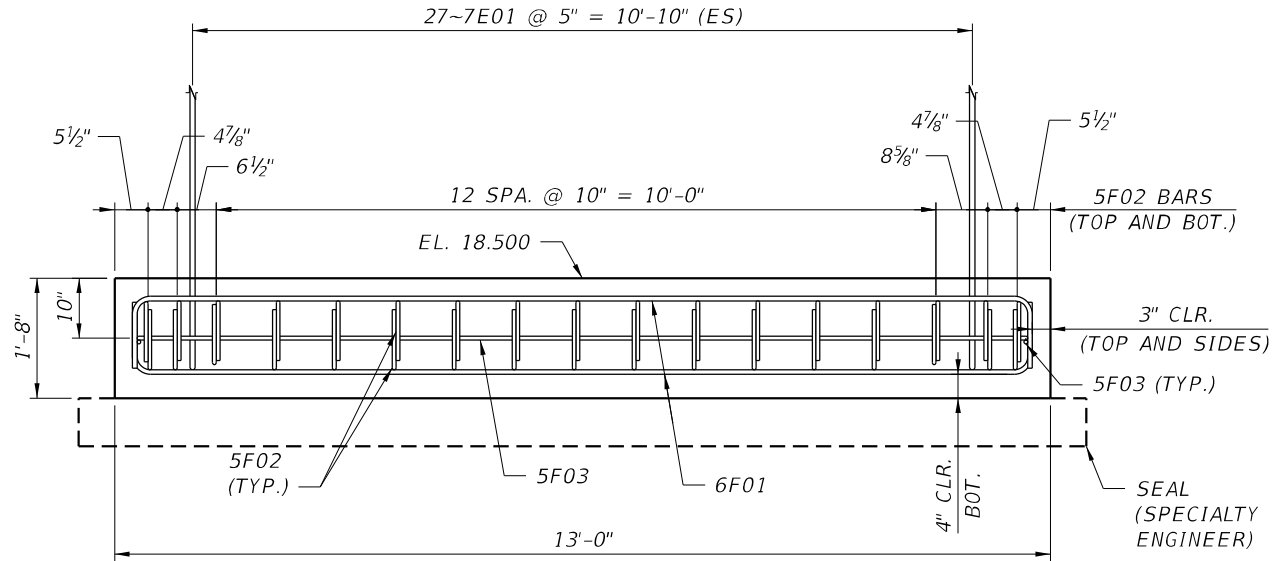
	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

REVISIONS						WILLIAM P. ROVIRA IV, P.E. P.E. LICENSE NUMBER 74586 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	DRAWN BY: BMG 10/23 CHECKED BY: WPR 10/23 DESIGNED BY: BMG 10/23 CHECKED BY: WPR 10/23	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF CORE BORINGS (2 OF 2)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								N/A	LEE	N/A	BELL BOULEVARD PEDESTRIAN BRIDGE	B-9



NOTE
IN ORDER TO OBTAIN THE REQUIRED COMPACTION OF THE IN-SITU BEARING SOILS, IN LIEU OF DEWATERING, THE USE OF COARSE AGGREGATE BELOW THE BOTTOM OF THE FOOTING ELEVATION IS ACCEPTABLE PROVIDED THE FOLLOWING REQUIREMENTS ARE MET:

- A. USE A MINIMUM COMPACTED LAYER THICKNESS OF 12 INCHES COARSE AGGREGATE (SIZE #57 OR #67). PLACE THE COARSE AGGREGATE SUCH THAT IT WILL BE STABLE, UNYIELDING AND FIRM.
- B. FULLY WRAP THE AGGREGATE WITH A LAYER OF R-1 GEOSYNTHETIC MATERIAL, AS SPECIFIED IN SECTION 985 OF THE FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- C. COMPACT COARSE AGGREGATE BACKFILL WITH A MINIMUM OF 10 PASSES WITH A VIBRATORY COMPACTOR WEIGHING BETWEEN 200 AND 600 POUNDS, OR 5 PASSES WITH A COMPACTOR WEIGHING MORE THAN 600 POUNDS.
- D. USE THE HIGHEST LEVEL OF VIBRATION WHICH DOES NOT CAUSE EXCESSIVE FRACTURING OF THE AGGREGATE IN THE OPINION OF THE ENGINEER. CONTINUE COMPACTION UNTIL THERE IS NO ADDITIONAL MOVEMENT.



REVISIONS						KCA KISINGER CAMPO & ASSOCIATES 13461 Parker Commons Blvd., Ste. 104 Fort Myers, Florida 33912 Engineer of Record: Lucio Martinez P.E. No.: 82380	DRAWN BY: LM 08-24 CHECKED BY: JHJ 08-24 DESIGNED BY: LM 08-24 CHECKED BY: JHJ 08-24 LEE COUNTY DEPARTMENT OF TRANSPORTATION ROAD NO. N/A COUNTY LEE FINANCIAL PROJECT ID 441901-1-58-01	SHEET TITLE: SPREAD FOOTING		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		PROJECT NAME:	BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL		SHEET NO.
								B-10		

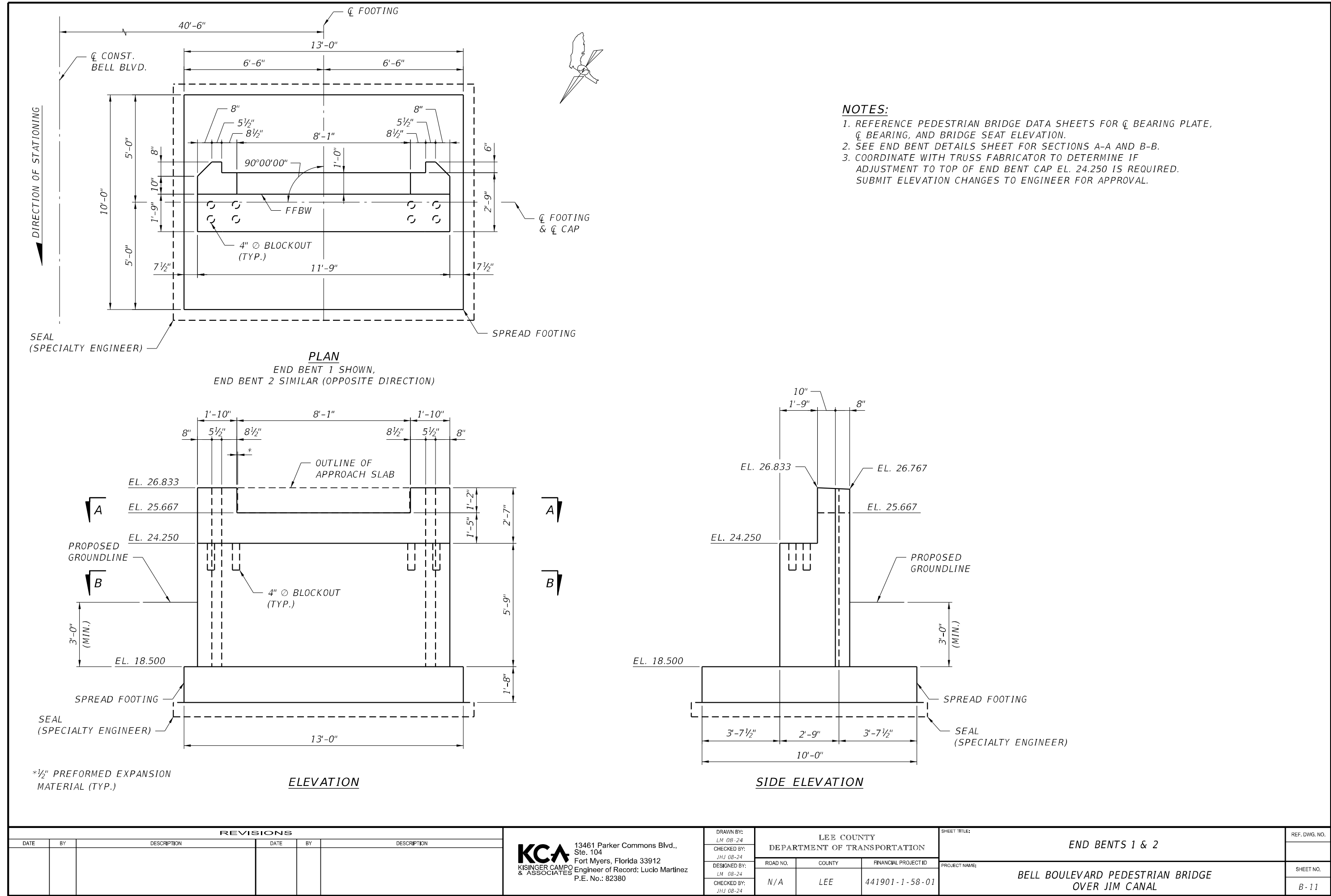
lmartinez

3/28/2025

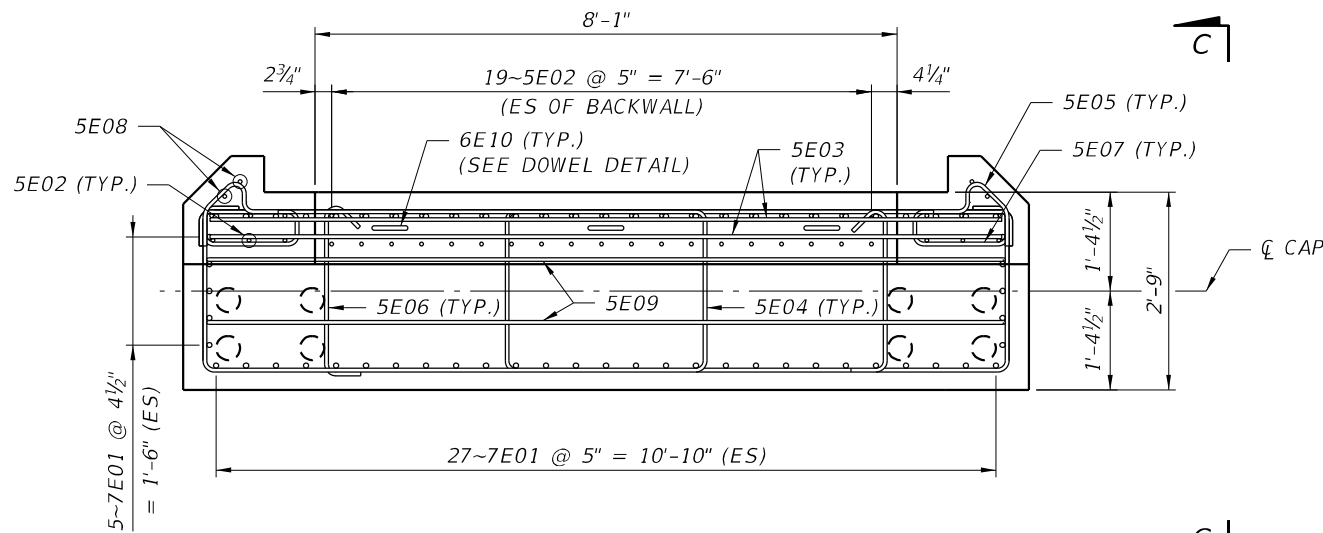
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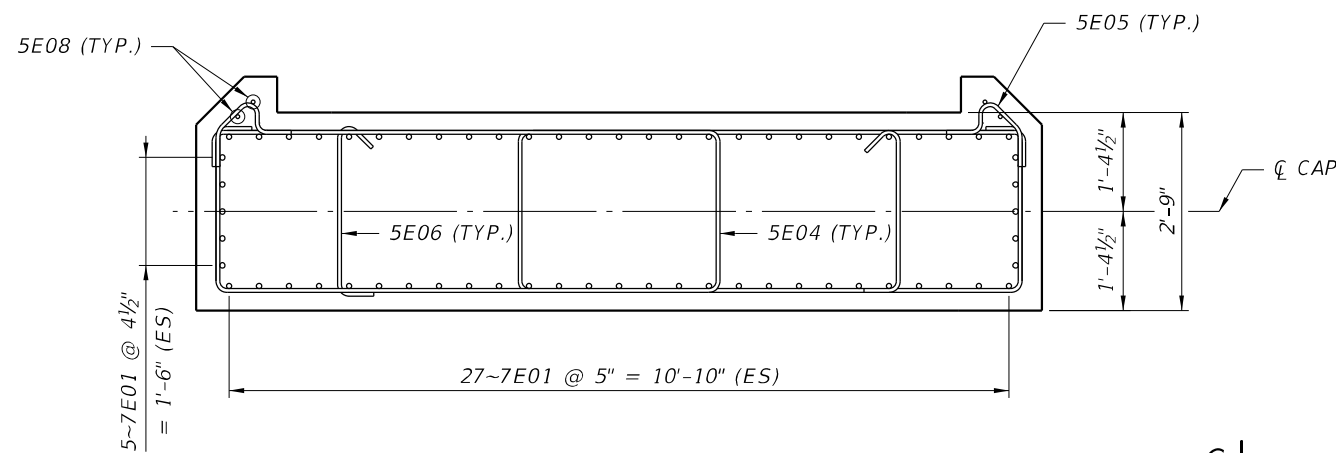
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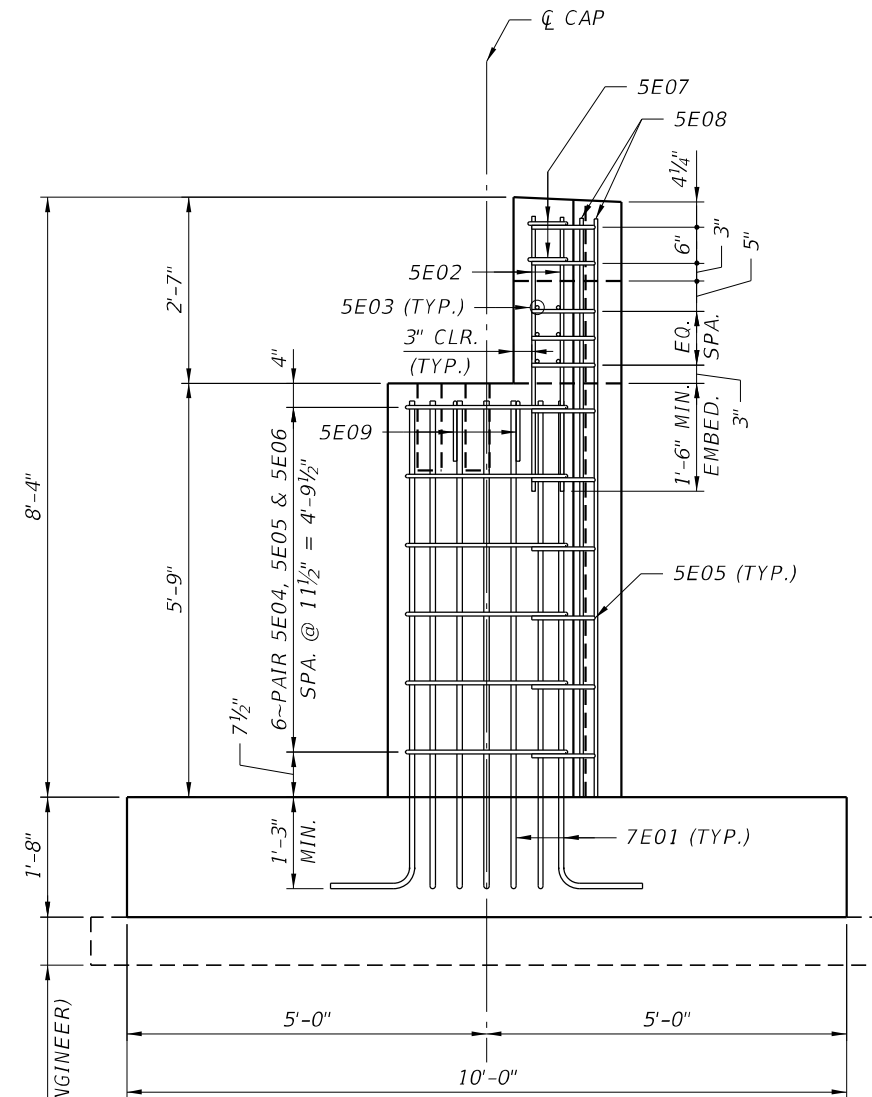
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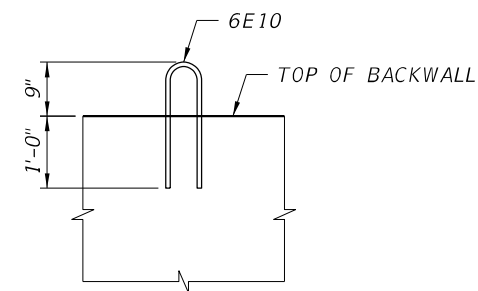
SECTION A-A



SECTION B-B



VIEW C-C



DOWEL DETAIL - ELEVATION

REVISIONS						KCA KISINGER CAMPO & ASSOCIATES 13461 Parker Commons Blvd., Ste. 104 Fort Myers, Florida 33912 Engineer of Record: Lucio Martinez P.E. No.: 82380	DRAWN BY: <i>LM 08-24</i>			LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CHECKED BY: <i>JHJ 08-24</i>	ROAD NO.	COUNTY				FINANCIAL PROJECT ID	END BENT DETAILS	
							DESIGNED BY: <i>LM 08-24</i>				PROJECT NAME:	SHEET NO.			
							CHECKED BY: <i>JHJ 08-24</i>	<i>N/A</i>	<i>LEE</i>	<i>441901-1-58-01</i>	<i>BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL</i>	<i>B-12</i>			

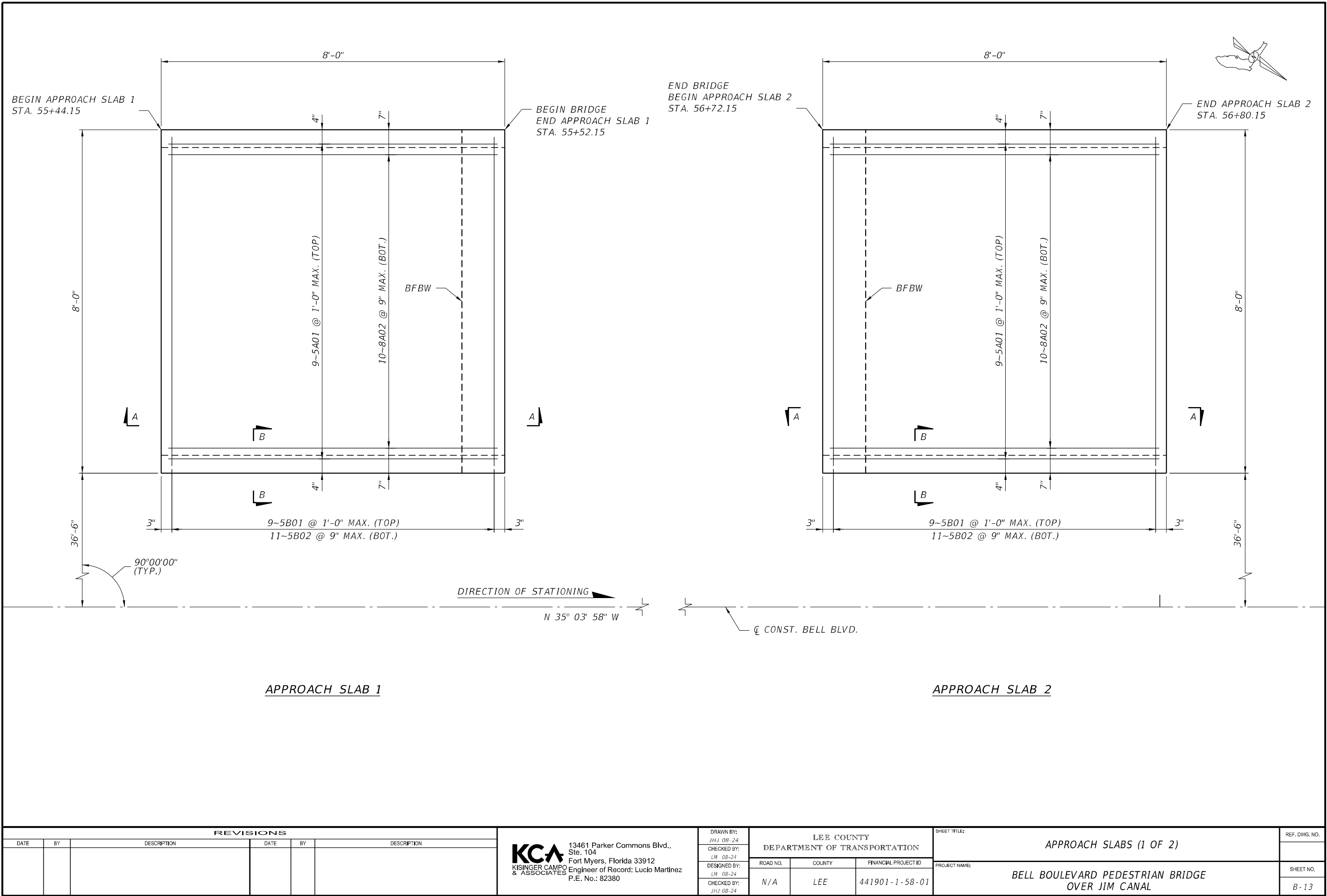
lmartinez

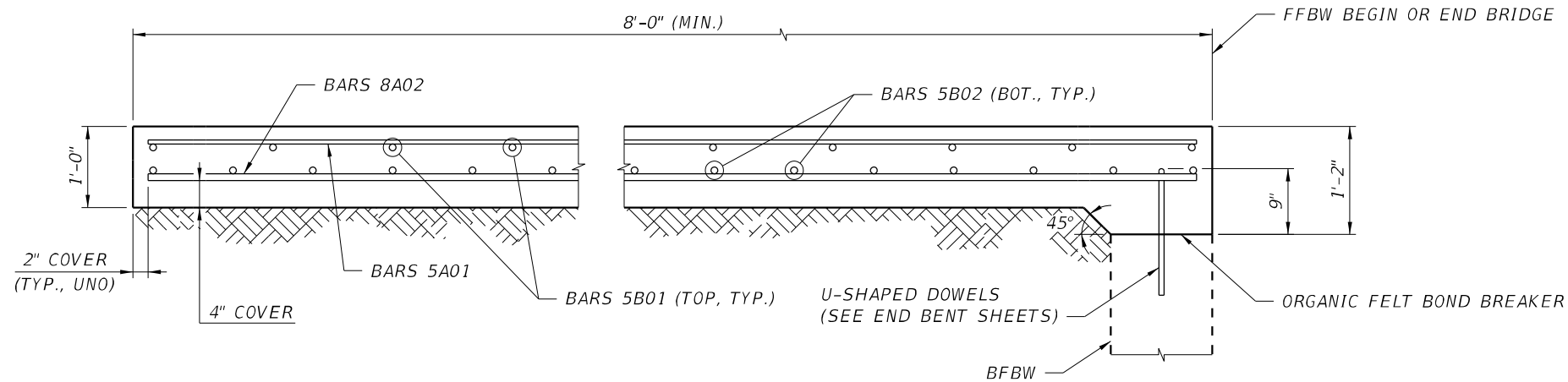
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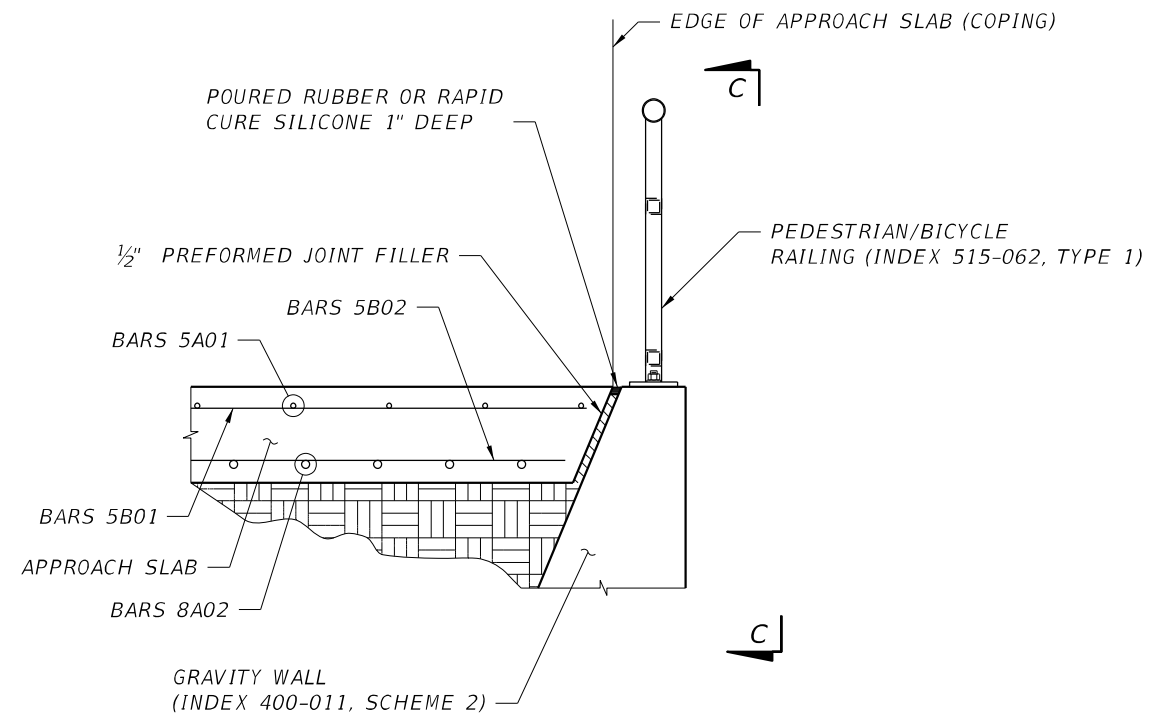
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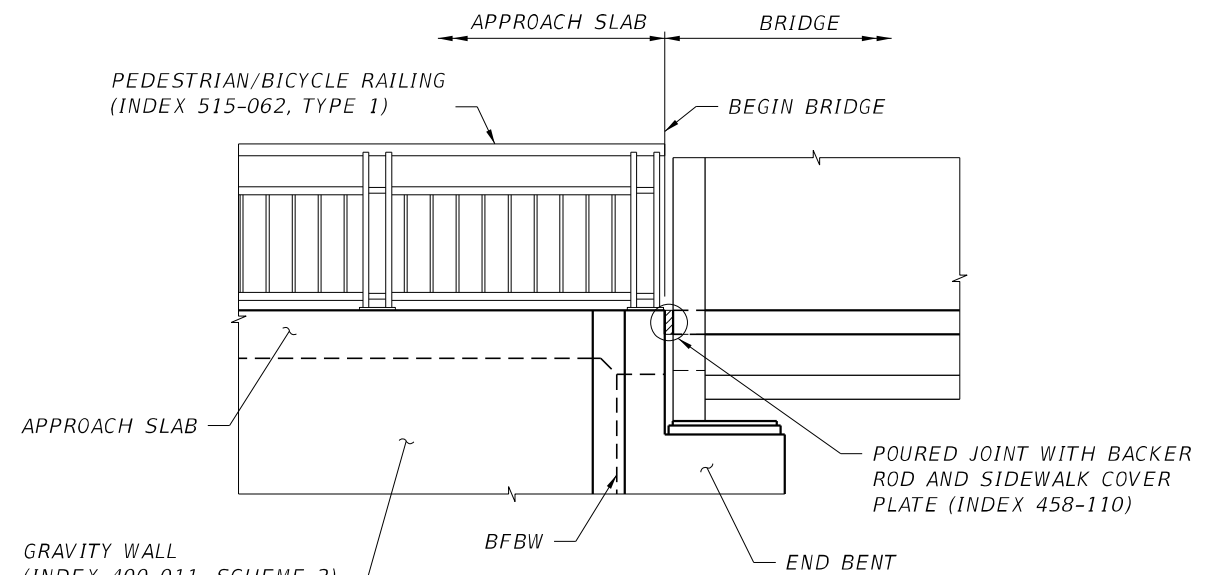




SECTION A-A



SECTION B-B



VIEW C-C

NOTE:

CLEAR OPENINGS IN PEDESTRIAN/BICYCLE RAILING, INCLUDING THE GAP BETWEEN THE RAILING AND PEDESTRIAN BRIDGE, ARE TO REJECT THE PASSAGE OF A 4" Ø SPHERE.

REVISIONS						KCA KISINGER CAMPO & ASSOCIATES 13461 Parker Commons Blvd., Ste. 104 Fort Myers, Florida 33912 Engineer of Record: Lucio Martinez P.E. No.: 82380	DRAWN BY: JHJ 08/24			LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CHECKED BY: LM 08/24	ROAD NO.	COUNTY				FINANCIAL PROJECT ID	PROJECT NAME: BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL	
							DESIGNED BY: LM 08/24				SHEET NO.				
							CHECKED BY: JHJ 08/24	N/A	LEE	441901-1-58-01	B-14				

lmartinez

3/24/2025

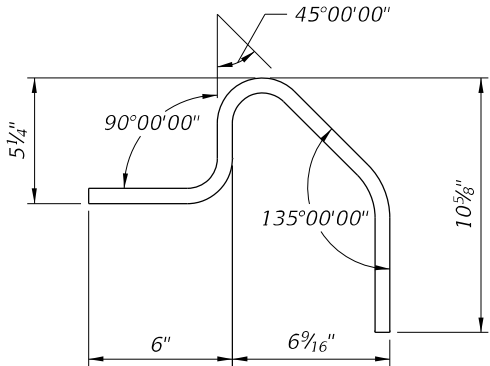
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MARK		LENGTH		NO	TYP	STY	B			C			D			E			F			H			J			K			N	Ø					
SIZE	DES	FT	IN	BARS	BAR	A	G	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	FT	IN	FR	NO	ANG							
LOCATION										FOOTINGS										NO. REQUIRED = 2																	
7	E01	6- 9		64	17	3		6- 9																													
6	F01	14- 6		42	18	3	3	12- 6																													
5	F02	11- 2		34	18	3	3	9- 6																													
5	F03	23- 9		2	11			12- 4 1/2		5- 8		5- 8																									
LOCATION										END BENTS										NO. REQUIRED = 2																	
5	E02	3-10		50	1			3-10																													
5	E03	11- 0		6	1			11- 0																													
5	E04	19- 6		12	4	4	4	7- 0		2- 3																											
5	E05	2- 0		22	SEE 5E05 DETAIL																																
5	E06	3- 8		12	18	1	3	2- 3																													
5	E07	4- 8		4	4	4	4	1- 4		0- 6																											
5	E08	8- 0		4	1			8- 0																													
5	E09	12- 9		2	18	3	3	11- 1																													
6	E10	3-10		3	23			1- 6		0- 3		1- 6																									
LOCATION										APPROACH SLABS										NO. REQUIRED = 2																	
5	A01	7- 8		9	1			7- 8																													
8	A02	7- 8		10	1			7- 8																													
5	B01	7- 2		9	1			7- 2																													
5	B02	6- 8		11	1			6- 8																													

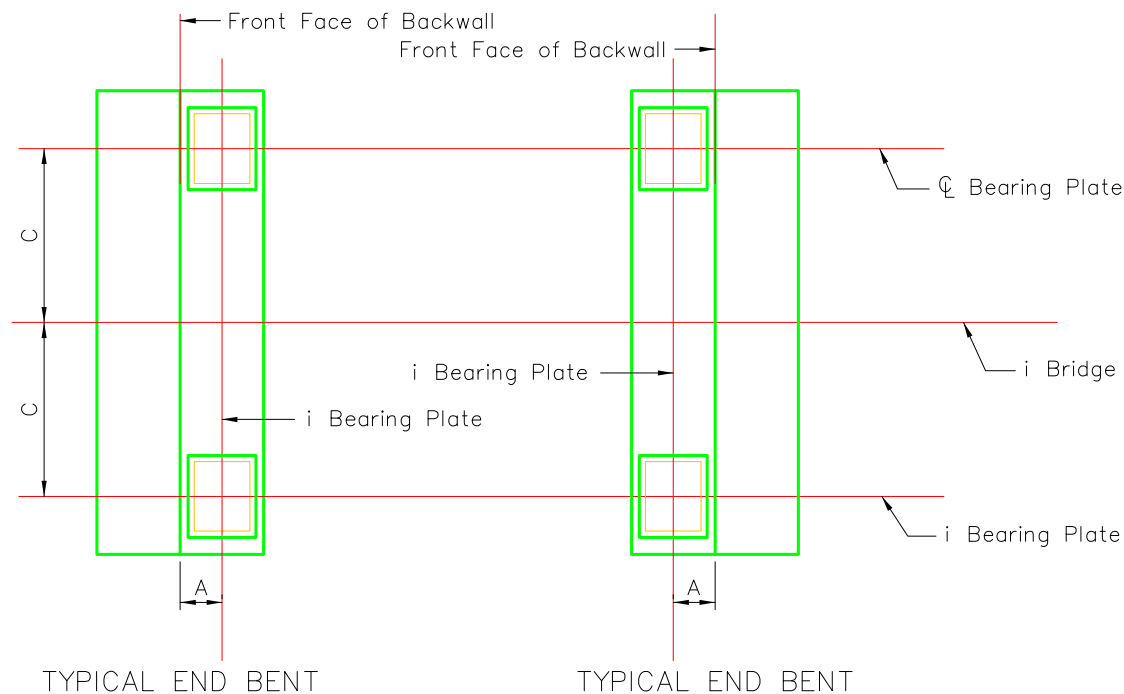
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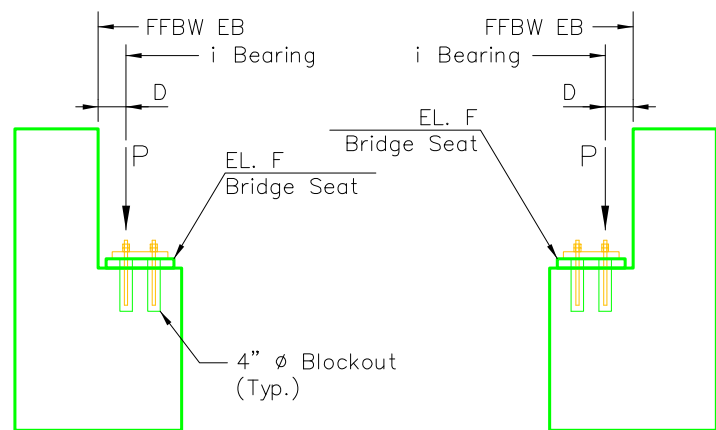
5E05 DETAIL

NOTE:
DIAMETER OF 5E05 BENDS TO BE 3 3/4"
PER STANDARD PLANS INDEX 415-001.

REVISIONS						KCA KISINGER CAMPO & ASSOCIATES 13461 Parker Commons Blvd., Ste. 104 Fort Myers, Florida 33912 Engineer of Record: Lucio Martinez P.E. No.: 82380	DRAWN BY: <i>LM 11-24</i>			LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE: <i>REINFORCING BAR LIST</i>			REF. DWG. NO.
DATE	BY	DESCRIPTION		DATE	BY		DESCRIPTION									
									ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: <i>BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL</i>		SHEET NO.		
									<i>N/A</i>	<i>LEE</i>	<i>441901-1-58-01</i>					

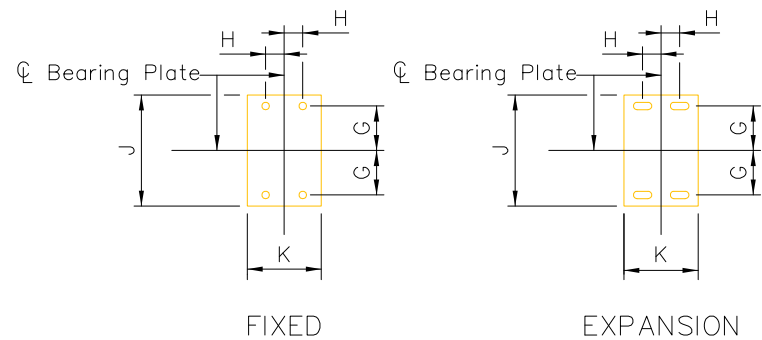


PARTIAL PLAN



PARTIAL ELEVATION

BEARING LOCATIONS & BRIDGE SEAT ELEVATIONS				
BENT	A (in.)	C (ft.)	D (in.)	F (ft.)
1	10	4.67	5	24.75
2	10	4.67	5	24.75

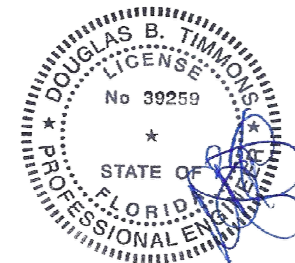


BEARING PLATE DETAILS

BEARING PLATE DIMENSIONS				
SPAN	G (in.)	H (in.)	J (in.)	K (in.)
1	7	4	18	16

COMPANY CONTACT INFORMATION	
COMPANY	JC MACHINE WORKS
ADDRESS	5700 32 COURT MIAMI, FL 33412
CONTACT	JORGE AMADOR
PHONE	305-634-5280
E-MAIL	jorgea@jcmachineshop.com

BRIDGE REACTIONS				
		SPAN 1		
		P (KIP)	T (KIP)	L (KIP)
DEAD LOAD		35.4	—	—
UNIFORM LIVE LOAD		25.5	—	—
VEHICLE LOAD		—	—	—
WIND UPLIFT	WINDWARD	8.1	—	—
	LEEWARD	5.4	—	—
WIND ³	TRANSVERSE	—	14.7	—
	VERTICAL	5.7	—	—
THERMAL		—	—	8.5



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY

Digitally signed by Douglas B.
Timmons, P.E. 39259
Date: 2025.03.27 09:00:13 -04'00'

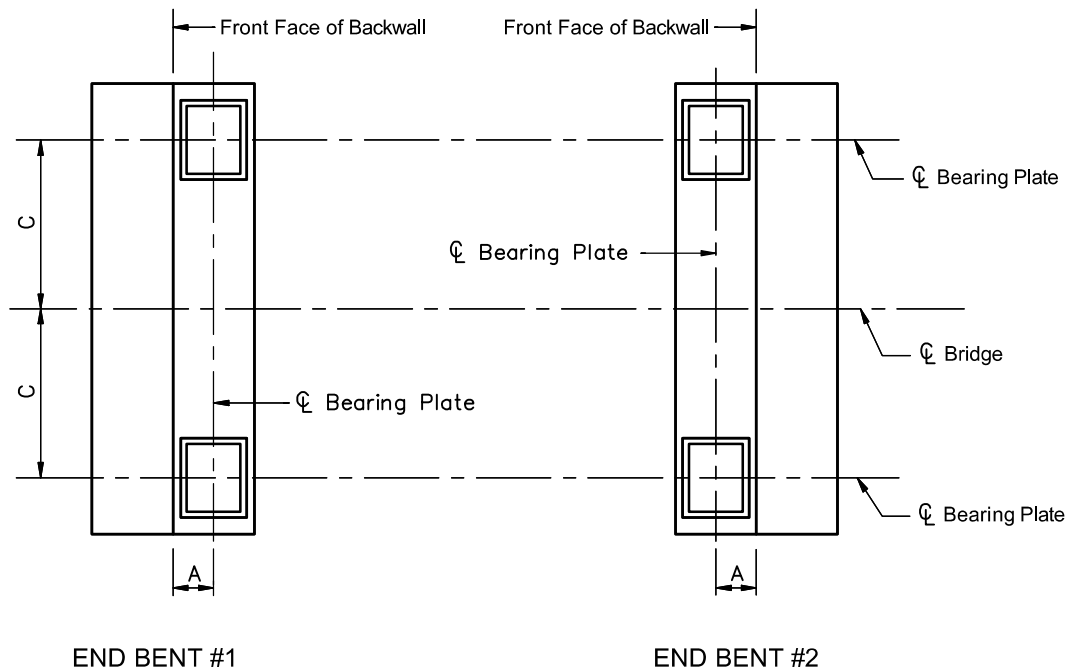
ON THE DATE ADJACENT TO THE SEAL

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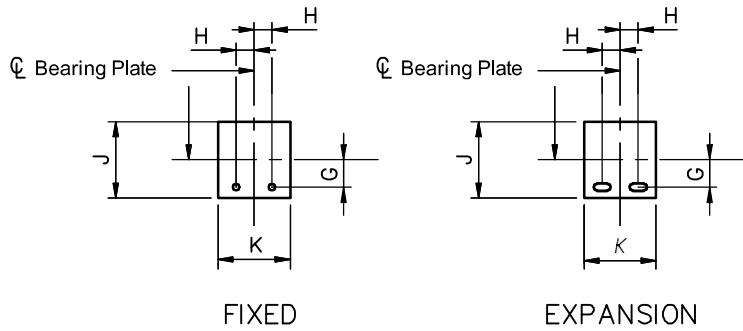
CORNERSTONE ENGINEERING PARTNERSHIP
12924 SW 114 COURT
MIAMI, FL 33176
DOUGLAS B. TIMMONS, PE NO. 39259

- P – UNFACTORED VERTICAL LOAD EACH BEARING PLATE (4 PER SPAN)
T – UNFACTORED TRANSVERSE LOAD EACH BENT/PIER (2 PER SPAN)
L – UNFACTORED LONGITUDINAL LOAD EACH BEARING PLATE (4 PER SPAN)
- DOWNWARD VERTICAL LOADS ARE POSITIVE (+), UPWARD VERTICAL LOADS ARE NEGATIVE (–).
- THE HORIZONTAL WIND LOAD ACTING AT THE C.G. OF THE TRUSS CREATES A TRANSVERSE SHEAR AND A VERTICAL COUPLE AT THE TOP OF EACH PIER/ BEARING LOCATION.
- DESIGN SPECIFICATIONS
 - FDOT STRUCTURES MANUAL, CURRENT EDITION AND SUPPLEMENTS THERETO.
 - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LOAD AND RESISTANCE FACTOR (LRFD) BRIDGE DESIGN SPECIFICATIONS, CURRENT EDITION AND SUPPLEMENTS THERETO.
 - AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, CURRENT EDITION
 - FDOT DESIGN MANUAL, CURRENT EDITION.
- CONSTRUCTION SPECIFICATIONS
 - FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION CURRENT EDITION AND SUPPLEMENTS THERETO.

REVISIONS						DRAWN BY: CHECKED BY: DESIGNED BY: CHECKED BY:	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION					PEDESTRIAN BRIDGE DATA (1 OF 4)		
							ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.	
							N/A	LEE	441901-1-58-01			BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL
CORNERSTONE ENGINEERING PARTNERSHIP 12924 SW 114 COURT MIAMI, FL 33176 DOUGLAS B. TIMMONS P.E.39259												



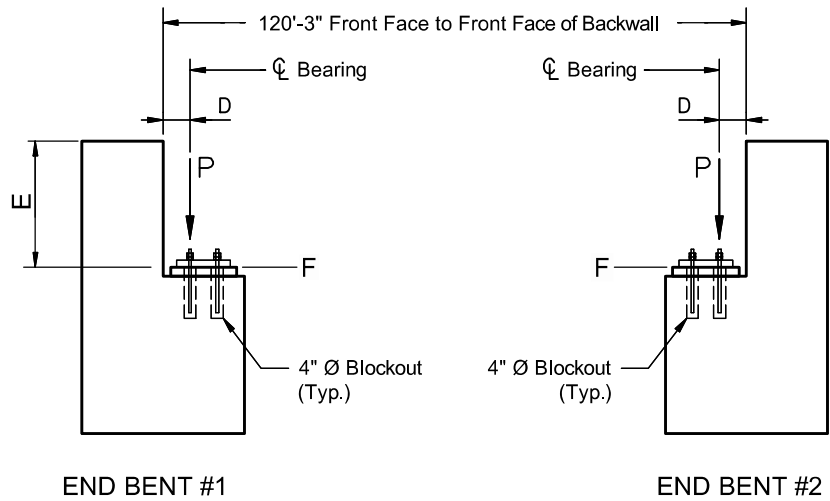
PLAN



BEARING PLATE DETAILS

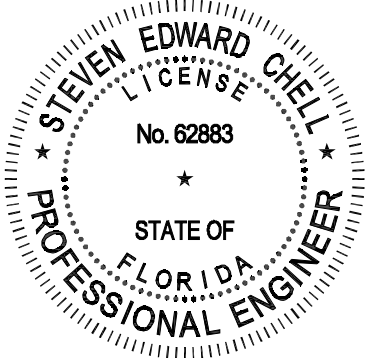
BEARING PLATE DIMENSIONS				
SPAN	G (in.)	H (in.)	J (in.)	K (in.)
1	7	4	16	14
2				
3				
4				

COMPANY CONTACT INFORMATION	
COMPANY	CONTECH BRIDGE SOLUTIONS
ADDRESS	8301 STATE HIGHWAY 29 N ALEXANDRIA MN 56308
CONTACT	STEVE CHELL
PHONE	320-345-9132
E-MAIL	Steve.Chell@conteches.com



ELEVATION

BRIDGE REACTIONS				
		SPAN 1		
		P (KIP)	T (KIP)	L (KIP)
DEAD LOAD		31.0		
UNIFORM LIVE LOAD		21.7		
VEHICLE LOAD		N/A		
WIND UPLIFT	WINDWARD	8.4		
	LEEWARD	2.8		
WIND ³	TRANSVERSE		43.8	
	VERTICAL	17.0		
THERMAL				4.65



THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY

Digitally signed by Steven E Chell
Reason: I attest to the accuracy and integrity of this document
Date: 2025.03.25 13:37:51 -05'00'

ON THE DATE ADJACENT TO THE SEAL

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

CONTECH ENGINEERED SOLUTIONS LLC
8301 STATE HWY 29N
ALEXANDRIA, NB 56308
STEVEN E. CHELL, PE NO. 62883

BEARING LOCATIONS & BRIDGE SEAT ELEVATIONS						
BENT/ PIER	A (in.)	B (in.)	C (ft.)	D (in.)	E (in.)	F (ft.)
1	8 1/4"	N/A	4'-4"	5 1/2"	34"	23.6667
2	8 1/4"	N/A	4'-4"	5 1/2"	34"	23.6667

NOTE: CLEARANCE OVER JIM CANAL DECREASED BY 3". TOP OF DECK TO LOW STEEL DIMENSION REVISED FROM 2' TO 2'-3"

- P - Unfactored Vertical Load each Bearing Plate (4 per Span)
T - Unfactored Transverse Load each Bent/Pier (2 per Span)
L - Unfactored Longitudinal Load each Bearing Plate (4 per Span)
- Downward vertical loads are positive (+), upward vertical loads are negative (-).
- The horizontal wind load acting at the c.g. of the truss creates a transverse shear and a vertical couple at the top of each pier/ bearing location.
- Design Specifications
 - FDOT Structures Manual, current Edition and supplements thereto.
 - American Association of State Highway and Transportation Officials (AASHTO) Load and Resistance Factor (LRFD) Bridge Design Specifications, current Edition and supplements thereto.
 - AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges, current Edition
 - FDOT Plans Preparation Manual, current Edition.

- Construction Specifications
 - FDOT Standard Specifications for Road and Bridge Construction current Edition and supplements thereto.

CONTECH PROJECT 774856-010

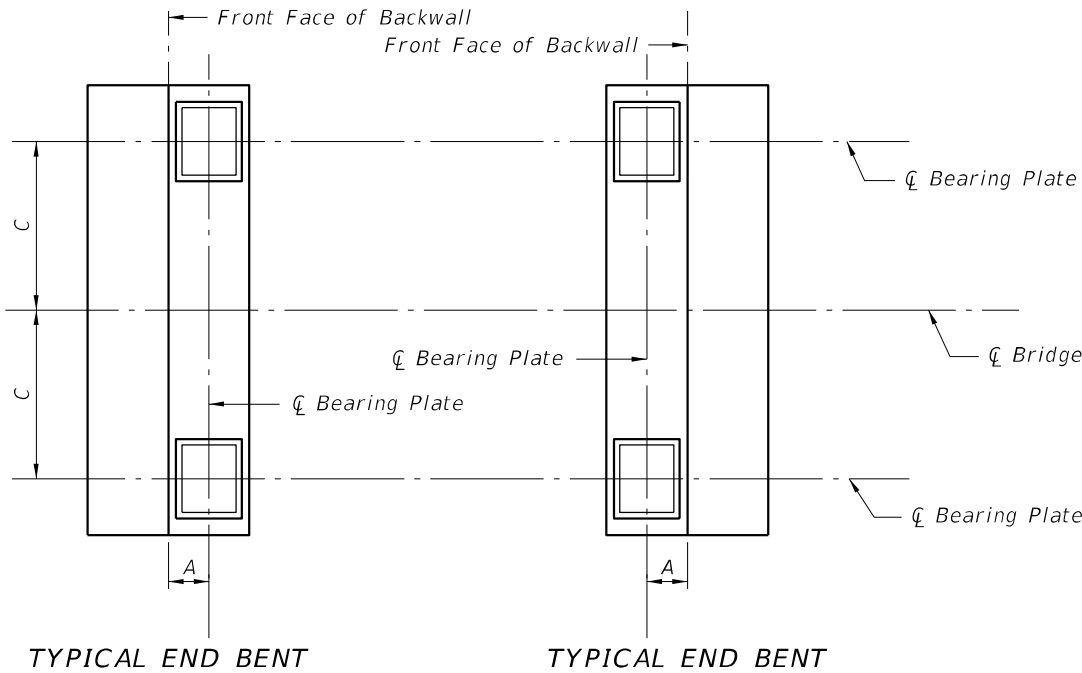
CONTECH
CONTRACT
DRAWING



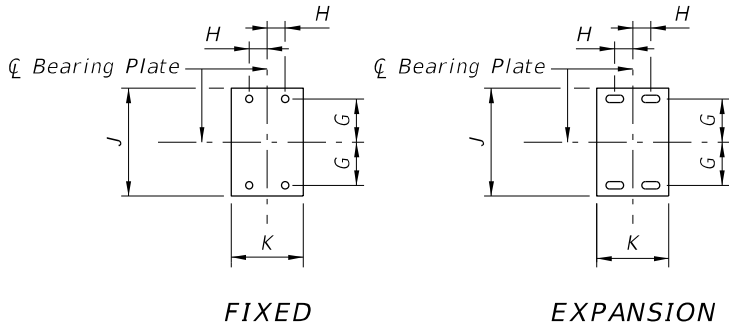
BRIDGE NO. ####

REVISIONS						STEVEN E. CHELL P.E. LICENSE NUMBER 62883 CONTECH ENGINEERED SOLUTIONS LLC 8301 STATE HWY 29N ALEXANDRIA, MN 56308	DRAWN BY: SEC 7/25/2024 CHECKED BY: SEC DESIGNED BY: SEC CHECKED BY: SEC	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. N°			
DATE	BY	DESCRIPTION			DATE						BY	DESCRIPTION			PEDESTRIAN BRIDGE DATA (2 OF 4)	
												ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.
												---	LEE COUNTY	441901-1-58-01	BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL	BP-2

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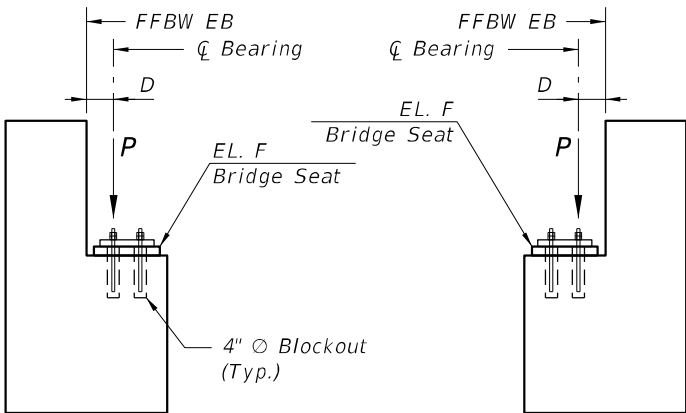
PARTIAL PLAN



BEARING PLATE DETAILS

BEARING PLATE DIMENSIONS				
SPAN	G	H	J	K
	(in.)	(in.)	(in.)	(in.)
1	6	3	16	14

COMPANY CONTACT INFORMATION	
COMPANY	BRIDGE BROTHERS INC.
ADDRESS	225 PUMPKINTOWN HIGHWAY PICKENS, SC 29617
CONTACT	AARON GENTILUCCI
PHONE	540.266.8473
E-MAIL	AGENTILUCCI@BRIDGEBROTHERS.COM



PARTIAL ELEVATION

BRIDGE REACTIONS				
		SPAN 1		
		P (KIP)	T (KIP)	L (KIP)
DEAD LOAD		27.9	—	—
UNIFORM LIVE LOAD		21.6	—	—
VEHICLE LOAD		0.0	—	—
WIND UPLIFT	WINDWARD	-8.4	—	—
	LEEWARD	-2.8	—	—
WIND ³	TRANSVERSE	—	15.8	—
	VERTICAL $\updownarrow$	+/- 11.8	—	—
THERMAL		—	—	5.6



FL FIRM#: 38052

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BRIDGE BROTHERS INC.
225 PUMPKINTOWN HWY.
PICKENS, SC 29617
CHAD S. MCDONALD, PE NO. 61764

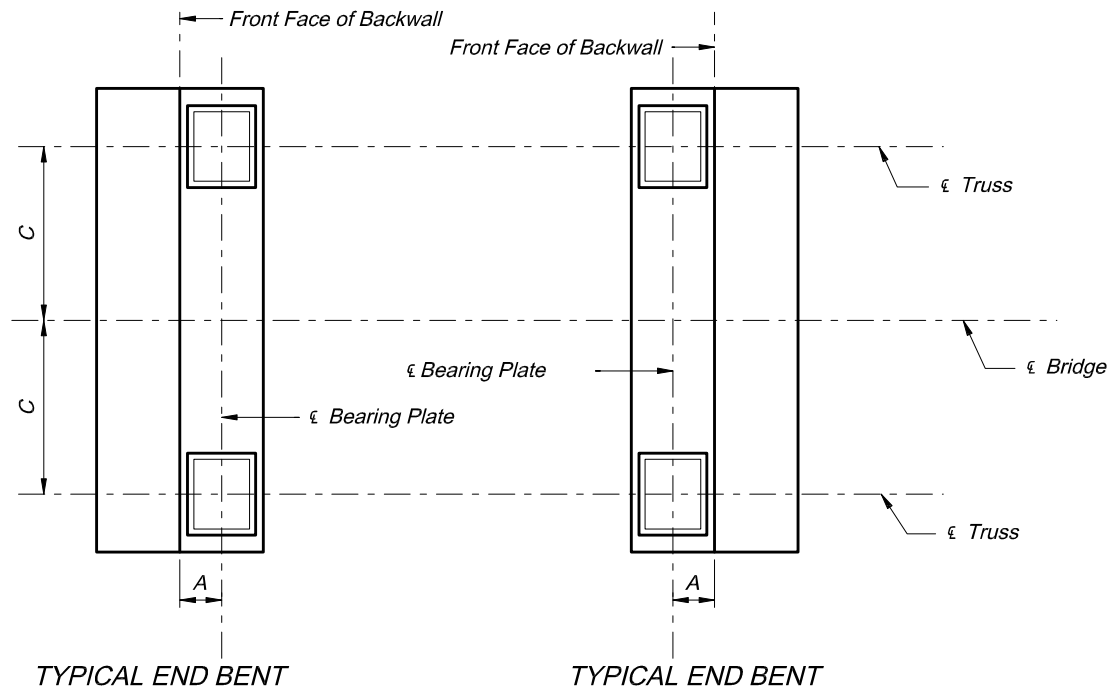
BEARING LOCATIONS & BRIDGE SEAT ELEVATIONS				
BENT	A (in.)	C (ft.)	D (in.)	F (ft.)
1	9	4.6	6	23.0
2	9	4.6	6	23.0

- P - UNFACTORED VERTICAL LOAD EACH BEARING PLATE (4 PER SPAN)
T - UNFACTORED TRANSVERSE LOAD EACH BENT/PIER (2 PER SPAN)
L - UNFACTORED LONGITUDINAL LOAD EACH BEARING PLATE (4 PER SPAN)
- DOWNWARD VERTICAL LOADS ARE POSITIVE (+), UPWARD VERTICAL LOADS ARE NEGATIVE (-).
- THE HORIZONTAL WIND LOAD ACTING AT THE C.G. OF THE TRUSS CREATES A TRANSVERSE SHEAR AND A VERTICAL COUPLE AT THE TOP OF EACH PIER/ BEARING LOCATION.
- DESIGN SPECIFICATIONS
 - FDOT STRUCTURES MANUAL, CURRENT EDITION AND SUPPLEMENTS THERETO.
 - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LOAD AND RESISTANCE FACTOR (LRFD) BRIDGE DESIGN SPECIFICATIONS, CURRENT EDITION AND SUPPLEMENTS THERETO.
 - AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, CURRENT EDITION
 - FDOT DESIGN MANUAL, CURRENT EDITION.
- CONSTRUCTION SPECIFICATIONS
 - FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION CURRENT EDITION AND SUPPLEMENTS THERETO.

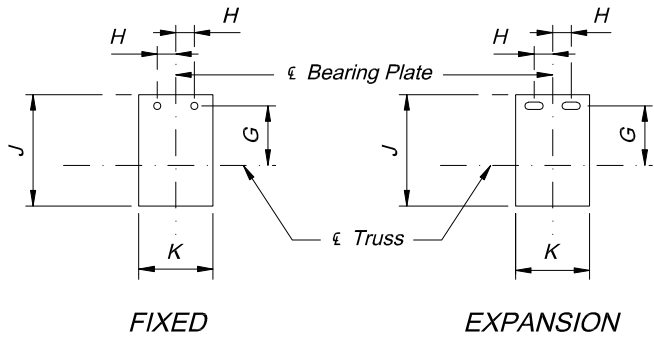
REVISIONS						DRAWN BY:	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE:	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
						CHECKED BY:	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PEDESTRIAN BRIDGE DATA (3 OF 4)	
						DESIGNED BY:	N/A	LEE	441901-1-58-01		
						CHECKED BY:					
						PROJECT NAME:				BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL	SHEET NO.
										BP-3	

BRIDGE BROTHERS
225 PUMPKINTOWN HWY. PICKENS, SC 29617
ENGINEER OF RECORD: CHAD S. MCDONALD
P.E. NO. 61764





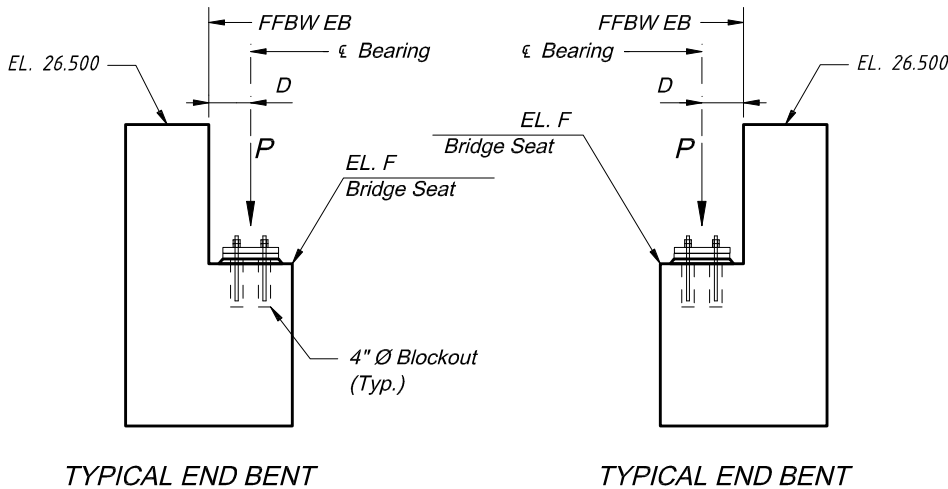
PARTIAL PLAN



BEARING PLATE DETAILS

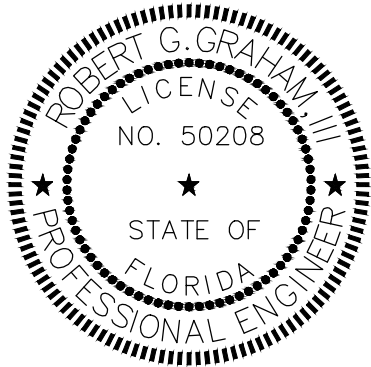
BEARING PLATE DIMENSIONS				
SPAN	G (in.)	H (in.)	J (in.)	K (in.)
1	5.75	3	12.25	10

COMPANY CONTACT INFORMATION	
COMPANY	BAILEY BRIDGES, INC. dba PIONEER BRIDGES
ADDRESS	119 40TH STREET NE FORT PAYNE, AL 35967
CONTACT	DARRYL YATES
PHONE	(256) 845-7575
E-MAIL	DYATES@PIONEERBRIDGES.COM



PARTIAL ELEVATION

BRIDGE REACTIONS				
		SPAN 1		
		P (KIP)	T (KIP)	L (KIP)
DEAD LOAD		32.4	—	—
UNIFORM LIVE LOAD		21.4	—	—
VEHICLE LOAD		10.0	—	—
WIND UPLIFT	WINDWARD	-7.1	—	—
	LEEWARD	-2.4	—	—
WIND ³	TRANSVERSE	—	43.5	—
	VERTICAL ↓↑	24.2	—	—
THERMAL		—	—	6.5



THIS ITEM HAS BEEN DIGITALLY
SIGNED AND SEALED BY

Robert G Graham
2025.03.28 09:00:29 -05'00'

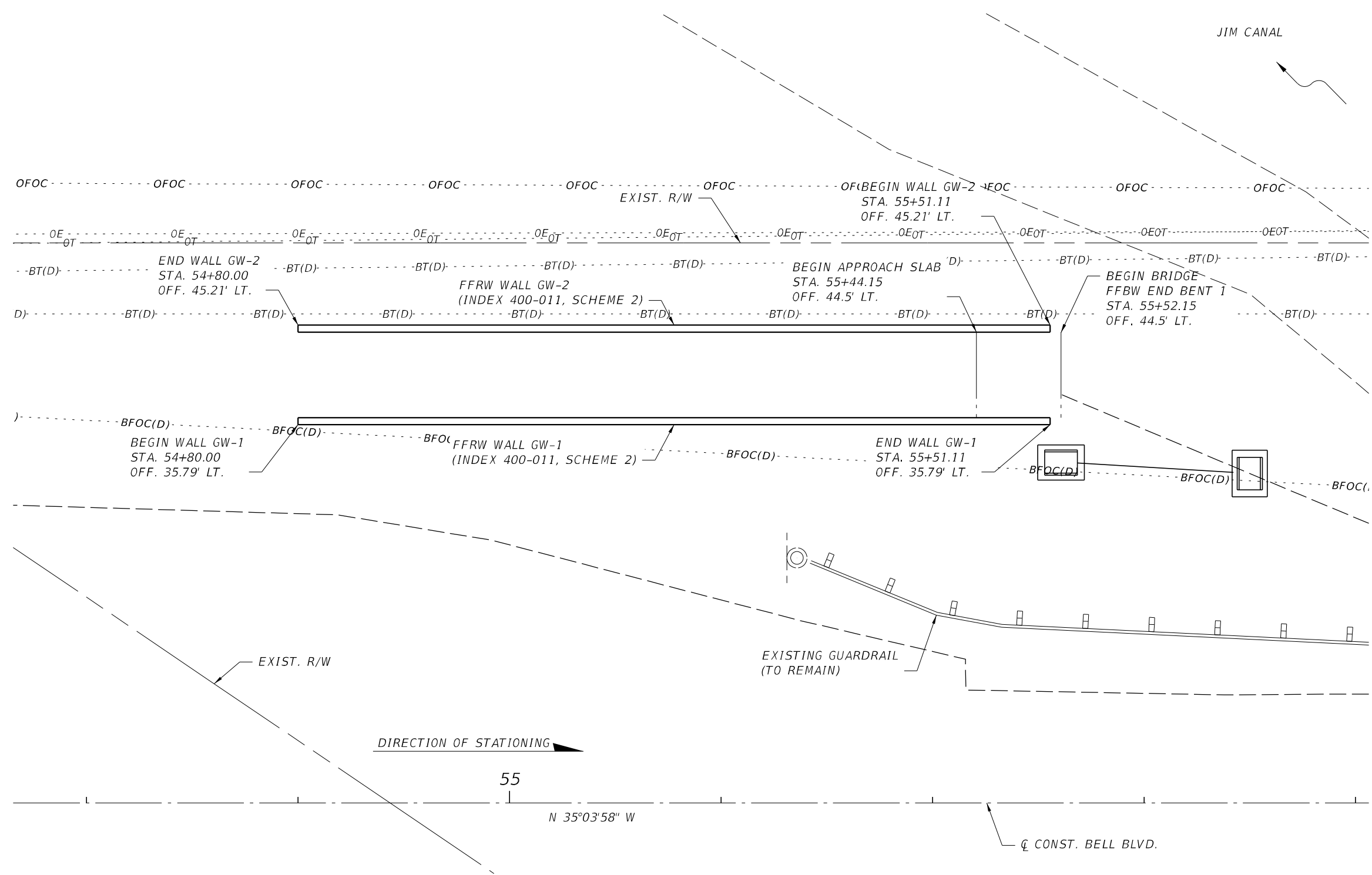
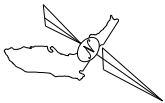
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6920 PORTOBELLO ROAD NW
FORT PAYNE, AL 35967
R.G. GRAHAM III, PE NO. 50208

BEARING LOCATIONS & BRIDGE SEAT ELEVATIONS				
BENT	A (in.)	C (ft.)	D (in.)	F (ft.)
1	6	4.5	6	23.9167
2	6	4.5	6	23.9167

1. P - UNFACTORED VERTICAL LOAD EACH BEARING PLATE (4 PER SPAN)
T - UNFACTORED TRANSVERSE LOAD EACH BENT/PIER (2 PER SPAN)
L - UNFACTORED LONGITUDINAL LOAD EACH BEARING PLATE (4 PER SPAN)
2. DOWNWARD VERTICAL LOADS ARE POSITIVE (+), UPWARD VERTICAL LOADS ARE NEGATIVE (-).
3. THE HORIZONTAL WIND LOAD ACTING AT THE C.G. OF THE TRUSS CREATES A TRANSVERSE SHEAR AND A VERTICAL COUPLE AT THE TOP OF EACH PIER/ BEARING LOCATION.
4. DESIGN SPECIFICATIONS
 - FDOT STRUCTURES MANUAL, CURRENT EDITION AND SUPPLEMENTS THERETO.
 - AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) LOAD AND RESISTANCE FACTOR (LRFD) BRIDGE DESIGN SPECIFICATIONS, CURRENT EDITION AND SUPPLEMENTS THERETO.
 - AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES, CURRENT EDITION
 - FDOT DESIGN MANUAL, CURRENT EDITION.
5. CONSTRUCTION SPECIFICATIONS
 - FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION CURRENT EDITION AND SUPPLEMENTS THERETO.

REVISIONS						R.G. Graham III, PE P.E. NO. 50208 (Independent Consultant for Bailey Bridges dba Pioneer Bridges) 6920 Portobello Road NW Fort Payne, AL 35967	DRAWN BY: KW CHECKED BY: AF DESIGNED BY: KW CHECKED BY: AF	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE: PEDESTRIAN BRIDGE DATA (4 OF 4)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								N/A	LEE	441901-1-58-01	PROJECT NAME: BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL	SHEET NO. BP-4

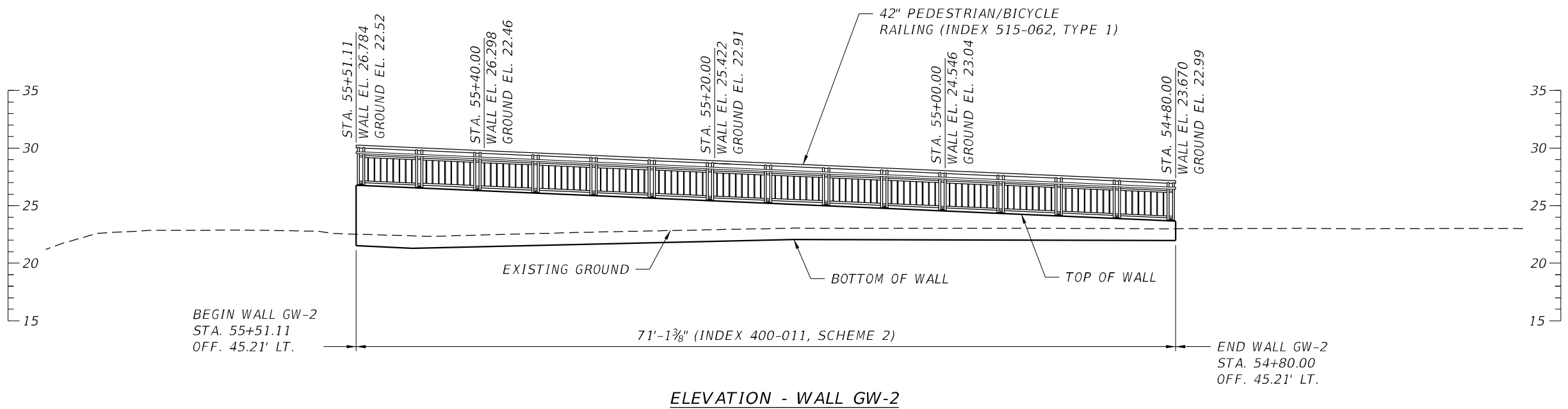
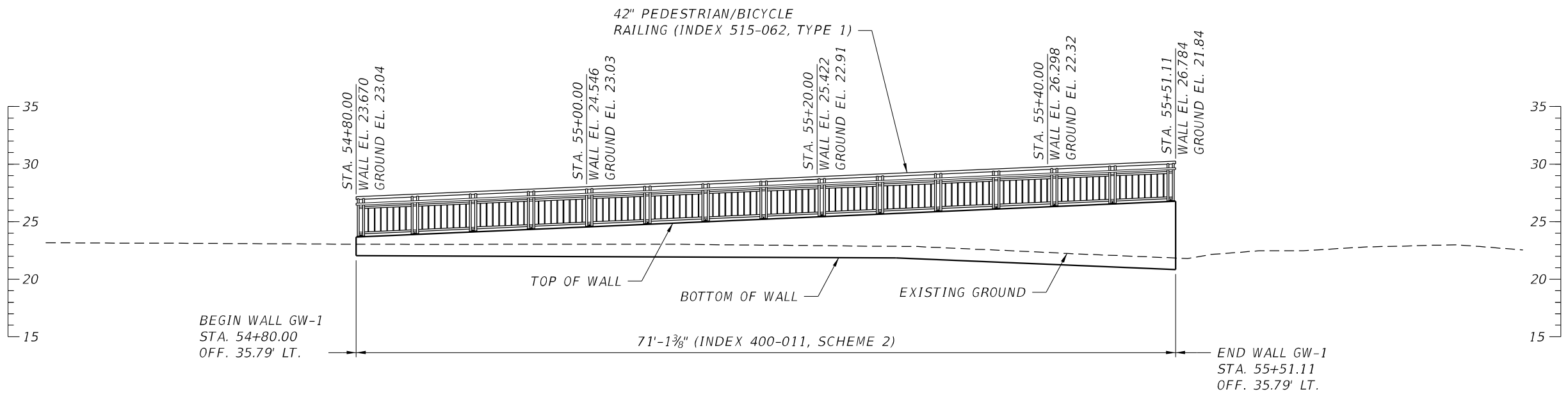


PLAN

NOTE:
SEE ROADWAY PLANS FOR EXISTING AND PROPOSED
DRAINAGE STRUCTURE DETAILS AND DISPOSITION OF
UTILITIES.

REVISIONS						KCA KISINGER CAMPO & ASSOCIATES 13461 Parker Commons Blvd., Ste. 104 Fort Myers, Florida 33912 Engineer of Record: Lucio Martinez P.E. No.: 82380	DRAWN BY: LM 08-24 CHECKED BY: JHJ 08-24 DESIGNED BY: LM 08-24 CHECKED BY: JHJ 08-24 LEE COUNTY DEPARTMENT OF TRANSPORTATION ROAD NO. N/A COUNTY LEE FINANCIAL PROJECT ID 441901-1-58-01	SHEET TITLE: PLAN WALLS GW-1 AND GW-2		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			PROJECT NAME: BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL		SHEET NO.
										BW - 1

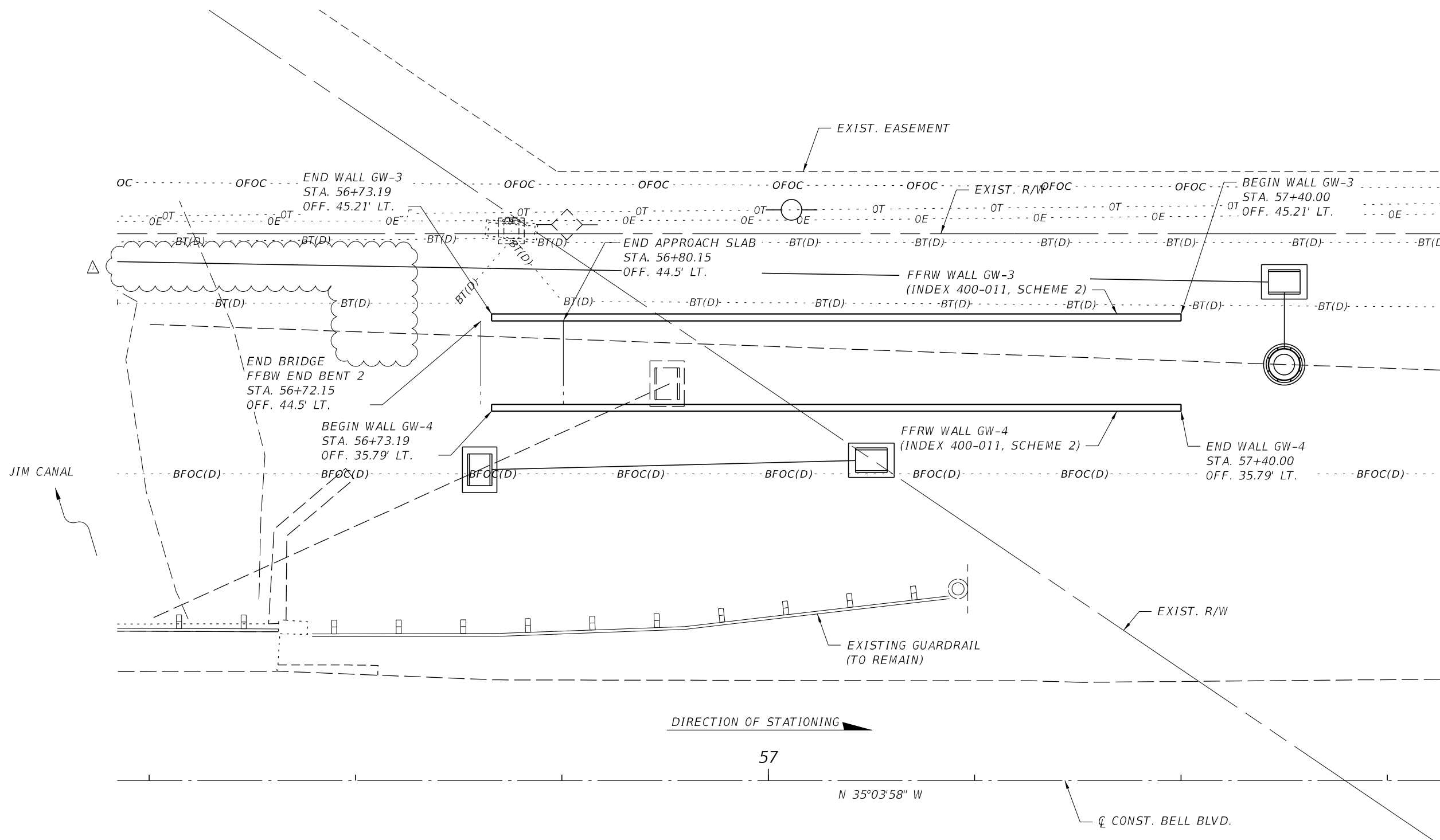
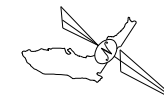
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NOTE:
BOTTLE GUARD AND COLORED COATINGS ARE NOT REQUIRED FOR PEDESTRIAN/BICYCLE RAILING. INFILL PANEL IS NOT REQUIRED TO REJECT THE PASSAGE OF 4" SPHERE.

REVISIONS						 13461 Parker Commons Blvd., Ste. 104 Fort Myers, Florida 33912 Engineer of Record: Lucio Martinez P.E. No.: 82380	DRAWN BY: LM 08-24			LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CHECKED BY: JHJ 08-24	ROAD NO.	COUNTY				FINANCIAL PROJECT ID	ELEVATION WALLS GW-1 AND GW-2	
							DESIGNED BY: LM 08-24				PROJECT NAME: BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL	SHEET NO.			
							CHECKED BY: JHJ 08-24	N/A	LEE	441901-1-58-01		BW - 2			

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



PLAN

NOTE:
SEE ROADWAY PLANS FOR EXISTING AND PROPOSED
DRAINAGE STRUCTURE DETAILS AND DISPOSITION OF
UTILITIES.

REVISIONS						 KCA KISINGER CAMPO & ASSOCIATES 13461 Parker Commons Blvd., Ste. 104 Fort Myers, Florida 33912 Engineer of Record: Lucio Martinez P.E. No.: 82380	DRAWN BY: LM 08-24 CHECKED BY: JHJ 08-24 DESIGNED BY: LM 08-24 CHECKED BY: JHJ 08-24	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE: PLAN WALLS GW-3 AND GW-4	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
5/13/25	LM	△ DRAINAGE STRUCTURES REMOVED AND EXTENDED PROPOSED PIPE.						N/A	LEE	441901-1-58-01	BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL	BW - 3

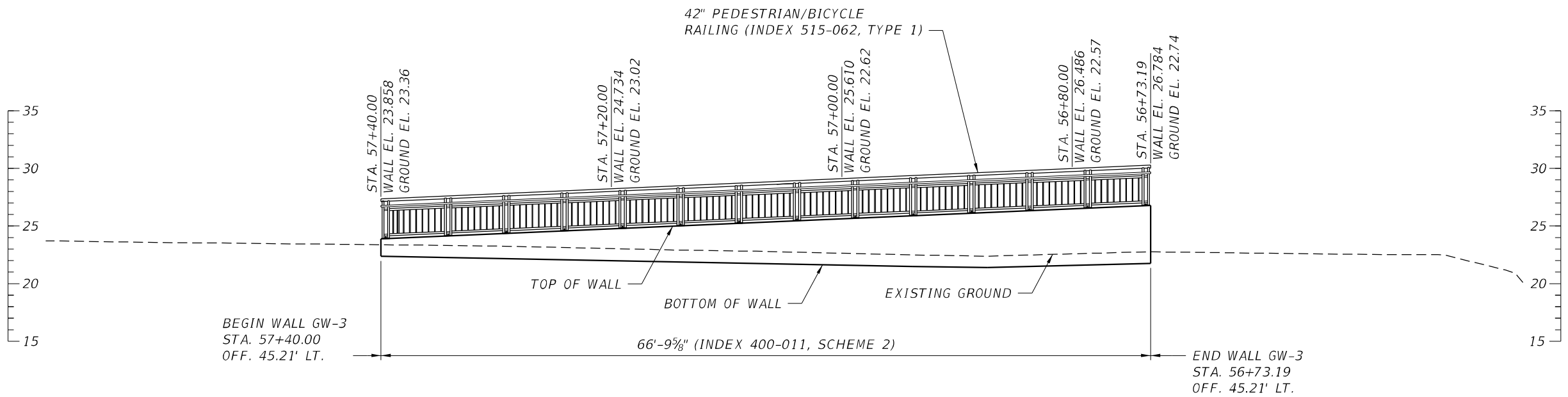
nguerra

5/21/2025

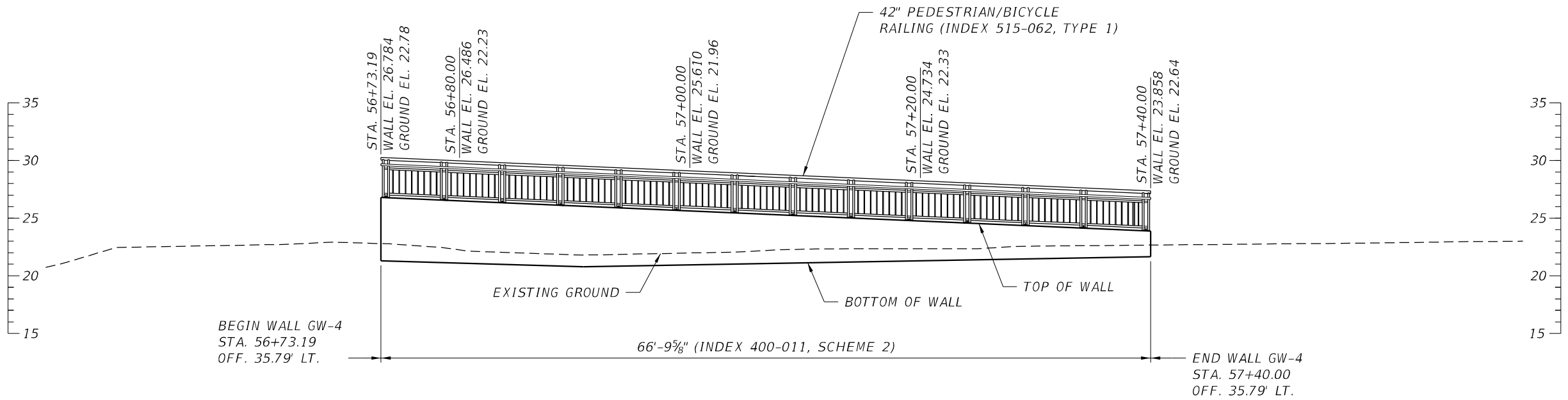
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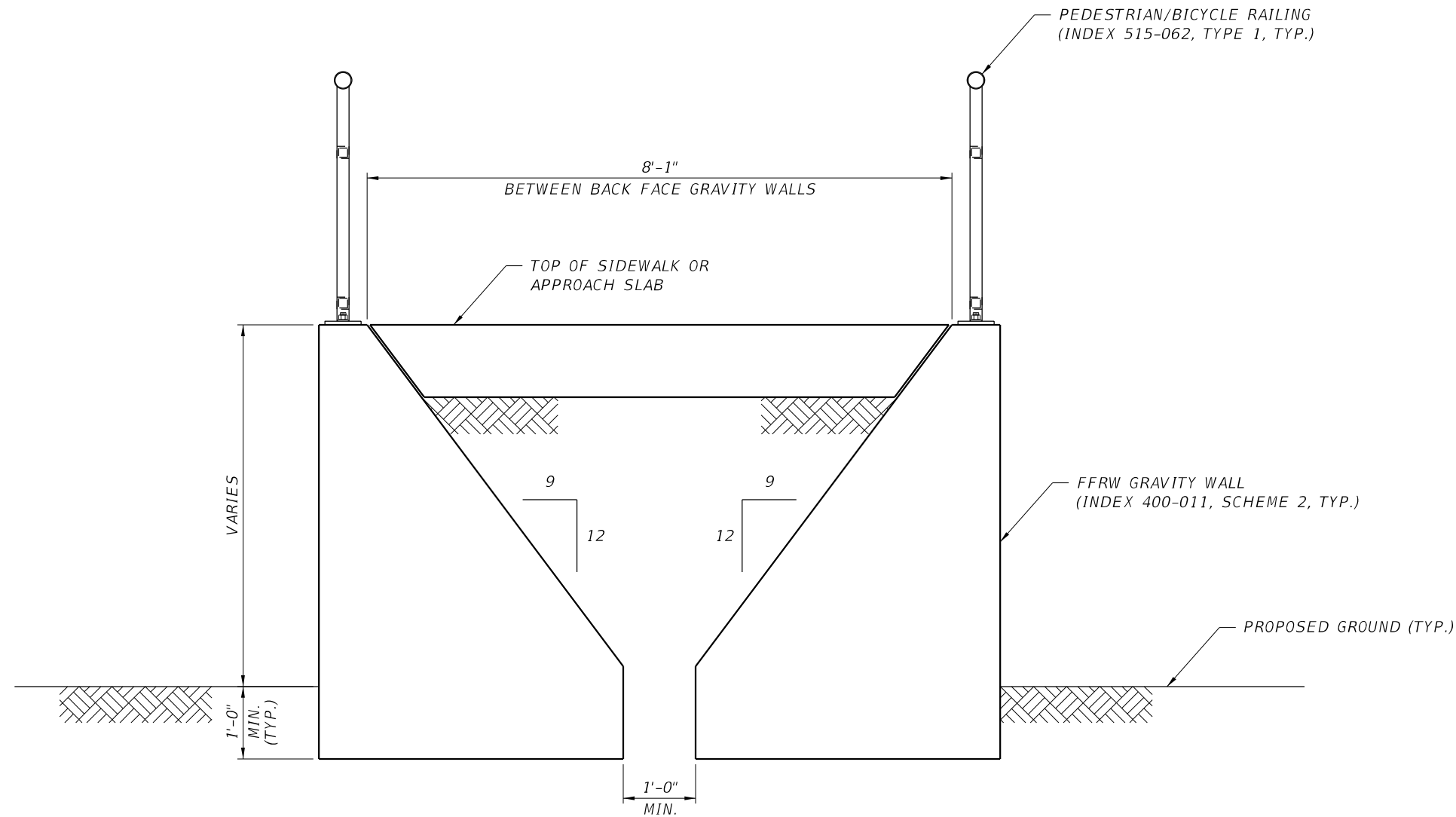
ELEVATION - WALL GW-3



ELEVATION - WALL GW-4

NOTE:
BOTTLE GUARD AND COLORED COATINGS ARE NOT REQUIRED FOR PEDESTRIAN/BICYCLE RAILING. INFILL PANEL IS NOT REQUIRED TO REJECT THE PASSAGE OF 4" SPHERE.

REVISIONS						 13461 Parker Commons Blvd., Ste. 104 Fort Myers, Florida 33912 Engineer of Record: Lucio Martinez P.E. No.: 82380	DRAWN BY: <i>LM 08-24</i>			LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE:			REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CHECKED BY: <i>JHJ 08-24</i>						ELEVATION WALLS GW-3 AND GW-4			
							DESIGNED BY: <i>LM 08-24</i>			PROJECT NAME:			SHEET NO.			
							CHECKED BY: <i>JHJ 08-24</i>			BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL			BW - 4			
							ROAD NO.	COUNTY	FINANCIAL PROJECT ID							



WALL SECTION

- NOTES:**
- GRAVITY WALLS ARE PER INDEX 400-011. FORM HEEL OF GRAVITY WALLS TO PROVIDE MINIMUM GAP AS SHOWN IN WALL SECTION VIEW.

REVISIONS						DRAWN BY: LM 12-24	LEE COUNTY DEPARTMENT OF TRANSPORTATION			SHEET TITLE: MODIFICATIONS TO STANDARD PLANS, INDEX 400-011	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION						
						CHECKED BY: JHJ 12-24	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME: BELL BOULEVARD PEDESTRIAN BRIDGE OVER JIM CANAL	SHEET NO. BW - 5
						DESIGNED BY: LM 12-24	N/A	LEE	441901-1-58-01		
						CHECKED BY: JHJ 12-24					

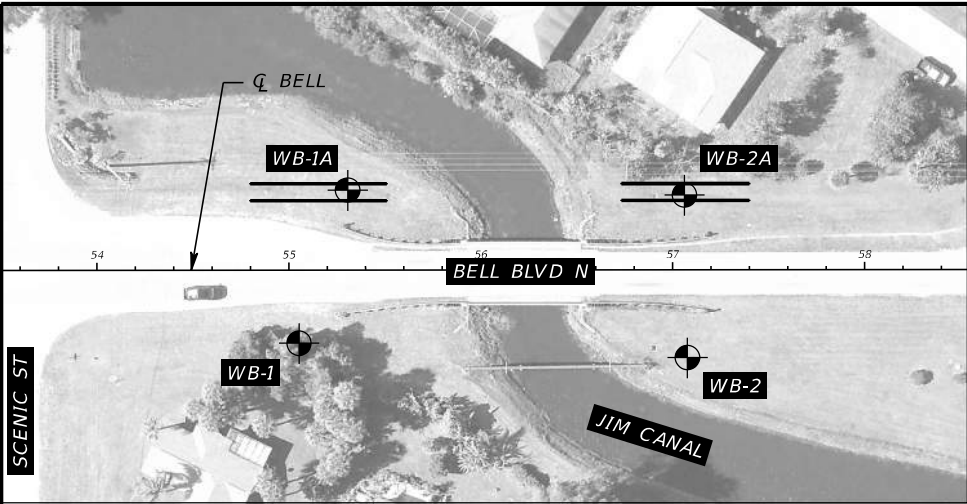
KCA
KISINGER CAMPO
& ASSOCIATES
13461 Parker Commons Blvd.,
Ste. 104
Fort Myers, Florida 33912
Engineer of Record: Lucio Martinez
P.E. No.: 82380

lmartinez

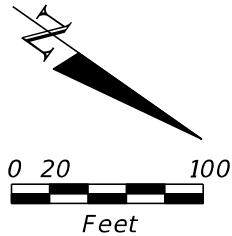
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BORING LOCATION PLAN



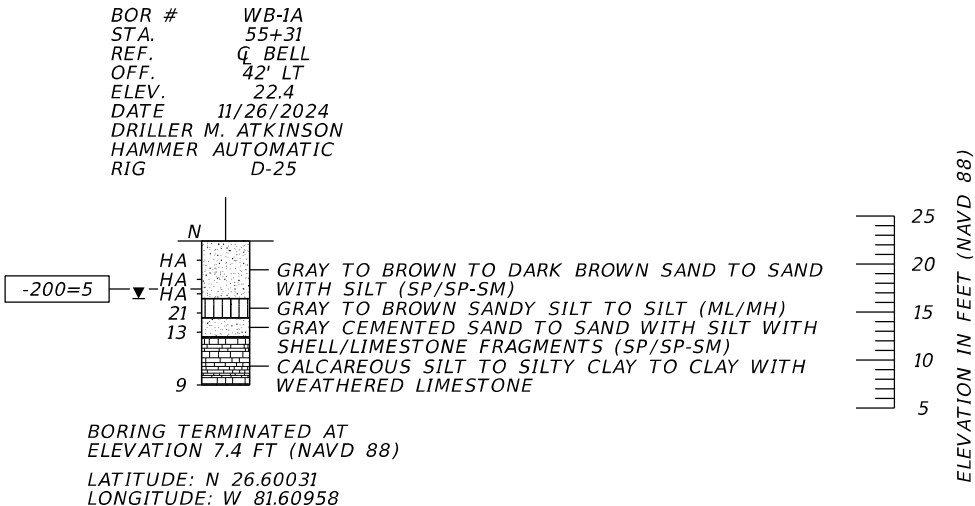
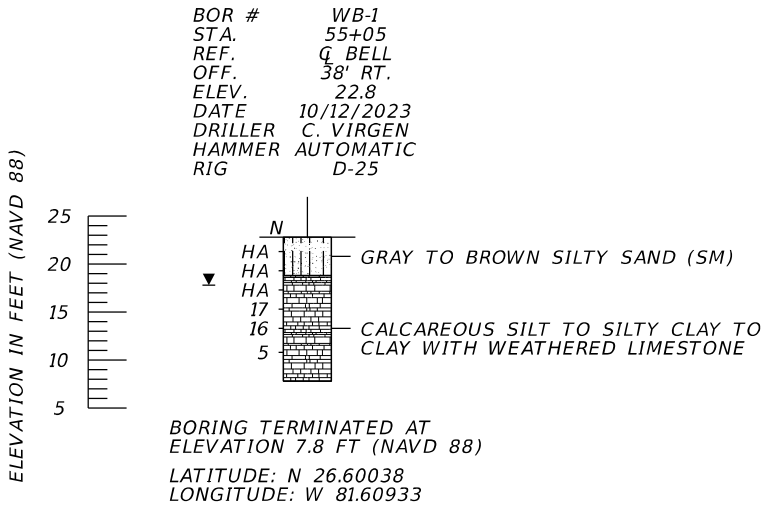
ENVIRONMENTAL CLASSIFICATION:
SUBSTRUCTURE CONCRETE: SLIGHTLY AGGRESSIVE
SUBSTRUCTURE STEEL: MODERATELY AGGRESSIVE
SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

SOIL TEST RESULTS:
RESISTIVITY 7,100 OHM-CM
CHLORIDES 75 PPM
SULFATES 15 PPM
pH 8.4

WATER TEST RESULTS:
RESISTIVITY 3,400 OHM-CM
CHLORIDES 30 PPM
SULFATES 10 PPM
pH 8.2

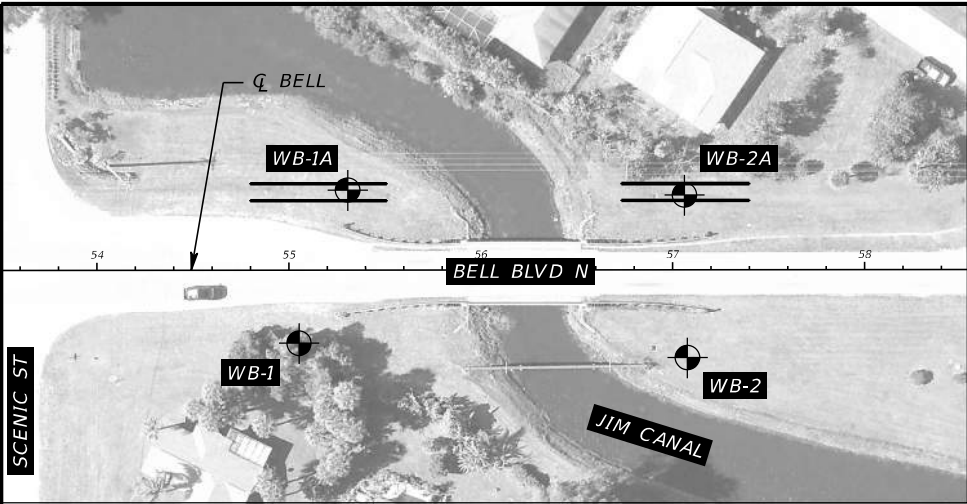
- NOTES:
- THE LOCATIONS OF THE BORINGS WERE MEASURED IN THE FIELD USING A HAND-HELD GPS DEVICE AND SHOULD BE CONSIDERED APPROXIMATE.
 - THE ELEVATIONS OF THE BORINGS WERE ESTIMATED USING DESIGN FILES PROVIDED BY KCA AND SHOULD BE CONSIDERED APPROXIMATE.
 - BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL, FLORIDA" MAP PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER AT THE BRIDGE CROSSING LOCATION RANGES FROM APPROXIMATELY +40 TO +50 FEET, NGVD 29. THE CONTRACTOR'S TOOLS AND CONSTRUCTION METHODS SHALL BE ADEQUATE TO HANDLE A POTENTIOMETRIC SURFACE CONDITION OF UP TO +50 FEET, NGVD 29, AT NO ADDITIONAL COST TO THE COUNTY.

LEGEND			
	SILTY SAND (SM)		WEATHERED LIMESTONE
	CLAYEY SAND (SC)		ORGANIC CLAYEY SAND TO SANDY CLAY (SC/CL)
	SILT (ML/MH)		
SP	UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.		
N	NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).		
HA	HAND AUGERED TO VERIFY UTILITY CLEARANCE		
WH	SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER		
-200	PERCENT PASSING #200 SIEVE		
NMC	NATURAL MOISTURE CONTENT (%)		
LL	LIQUID LIMIT (%)		
PI	PLASTICITY INDEX (%)		
OC	ORGANIC CONTENT (%)		
NP	NON-PLASTIC		
NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988		
	APPROXIMATE SPT BORING LOCATION		
	GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS		
GNA	GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.		
Q BELL	CENTERLINE CONSTRUCTION BELL BOULEVARD		

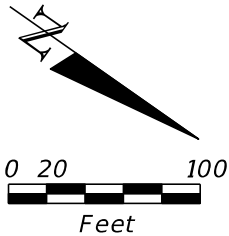


	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE	LESS THAN 4 4 to 10 10 to 30 30 to 50 GREATER THAN 50	LESS THAN 3 3 to 8 8 to 24 24 to 40 GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT SOFT FIRM STIFF VERY STIFF HARD	LESS THAN 2 2 to 4 4 to 8 8 to 15 15 to 30 GREATER THAN 30	LESS THAN 1 1 to 3 3 to 6 6 to 12 12 to 24 GREATER THAN 24

REVISIONS						WILLIAM P. ROVIRA IV, P.E. P.E. LICENSE NUMBER 74586 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	DRAWN BY: BMG 10/23	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE:		REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		CHECKED BY: WPR 10/23				REPORT OF CORE BORINGS (1 OF 2)		
							DESIGNED BY: BMG 10/23	ROAD NO.	COUNTY	FINANCIAL PROJECT ID	PROJECT NAME:	SHEET NO.	
							CHECKED BY: WPR 10/23	N/A	LEE	N/A			BELL BOULEVARD PEDESTRIAN BRIDGE



BORING LOCATION PLAN



ENVIRONMENTAL CLASSIFICATION:
SUBSTRUCTURE CONCRETE: SLIGHTLY AGGRESSIVE
SUBSTRUCTURE STEEL: MODERATELY AGGRESSIVE
SUPERSTRUCTURE SLIGHTLY AGGRESSIVE

SOIL TEST RESULTS:
RESISTIVITY 7,100 OHM-CM
CHLORIDES 75 PPM
SULFATES 15 PPM
pH 8.4

WATER TEST RESULTS:
RESISTIVITY 3,400 OHM-CM
CHLORIDES 30 PPM
SULFATES 10 PPM
pH 8.2

- NOTES:
- THE LOCATIONS OF THE BORINGS WERE MEASURED IN THE FIELD USING A HAND-HELD GPS DEVICE AND SHOULD BE CONSIDERED APPROXIMATE.
 - THE ELEVATIONS OF THE BORINGS WERE ESTIMATED USING DESIGN FILES PROVIDED BY KCA AND SHOULD BE CONSIDERED APPROXIMATE.
 - BASED ON A REVIEW OF THE "POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL, FLORIDA" MAP PUBLISHED BY THE USGS, THE POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER AT THE BRIDGE CROSSING LOCATION RANGES FROM APPROXIMATELY +40 TO +50 FEET, NGVD 29. THE CONTRACTOR'S TOOLS AND CONSTRUCTION METHODS SHALL BE ADEQUATE TO HANDLE A POTENTIOMETRIC SURFACE CONDITION OF UP TO +50 FEET, NGVD 29, AT NO ADDITIONAL COST TO THE COUNTY.

LEGEND

	SILTY SAND (SM)		WEATHERED LIMESTONE
	CLAYEY SAND (SC)		ORGANIC CLAYEY SAND TO SANDY CLAY (SC/CL)
	SILT (ML/MH)		

SP	UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
N	NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
HA	HAND AUGERED TO VERIFY UTILITY CLEARANCE
WH	SPLIT-SPOON SAMPLER ADVANCED UNDER WEIGHT OF ROD AND HAMMER
-200	PERCENT PASSING #200 SIEVE
NMC	NATURAL MOISTURE CONTENT (%)
LL	LIQUID LIMIT (%)
PI	PLASTICITY INDEX (%)
OC	ORGANIC CONTENT (%)
NP	NON-PLASTIC

NAVD 88 NORTH AMERICAN VERTICAL DATUM OF 1988

APPROXIMATE SPT BORING LOCATION

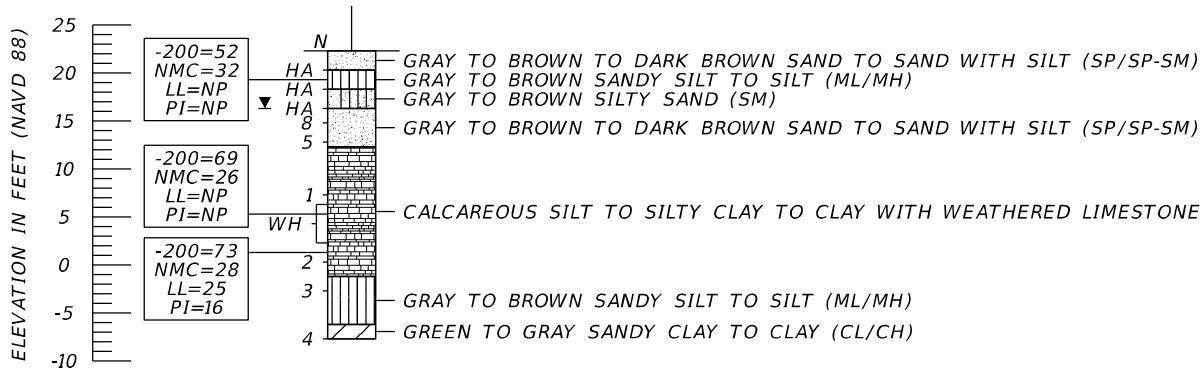
GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS

GNA GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.

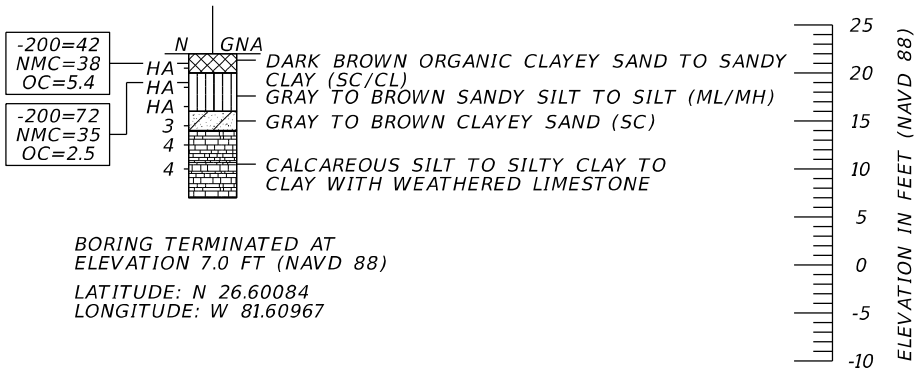
Q BELL CENTERLINE CONSTRUCTION BELL BOULEVARD

BOR # WB-2A
STA. 57+06
REF. Q BELL
OFF. 39' LT
ELEV. 22.3
DATE 11/26/2024
DRILLER M. ATKINSON
HAMMER AUTOMATIC
RIG D-25

BOR # WB-2
STA. 57+08
REF. Q BELL
OFF. 46' RT.
ELEV. 22.0
DATE 10/12/2023
DRILLER C. VIRGEN
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED AT
ELEVATION -7.7 FT (NAVD 88)
LATITUDE: N 26.60071
LONGITUDE: W 81.60988

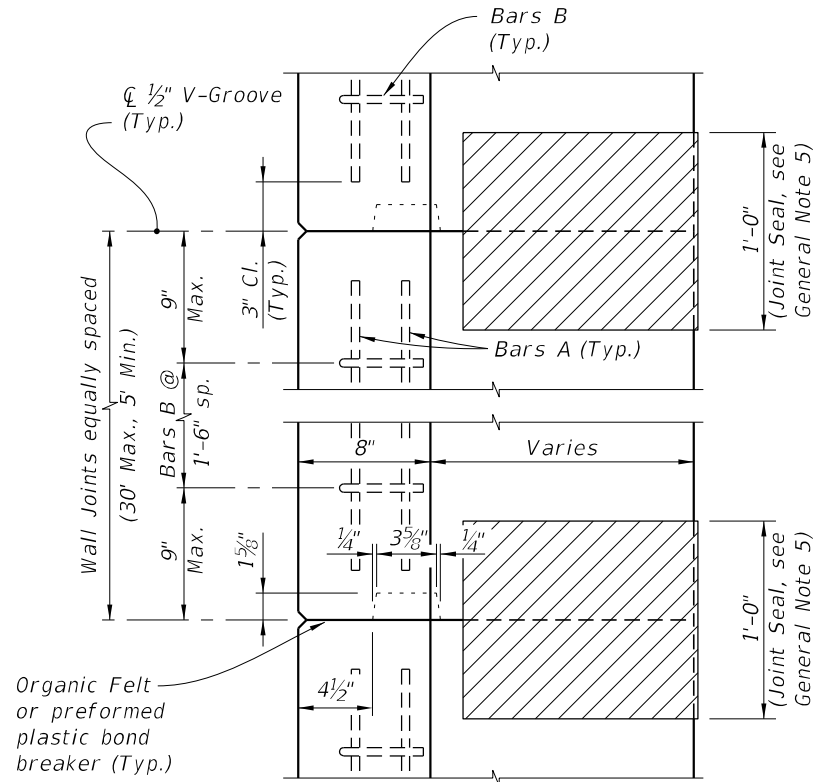


BORING TERMINATED AT
ELEVATION 7.0 FT (NAVD 88)
LATITUDE: N 26.60084
LONGITUDE: W 81.60967

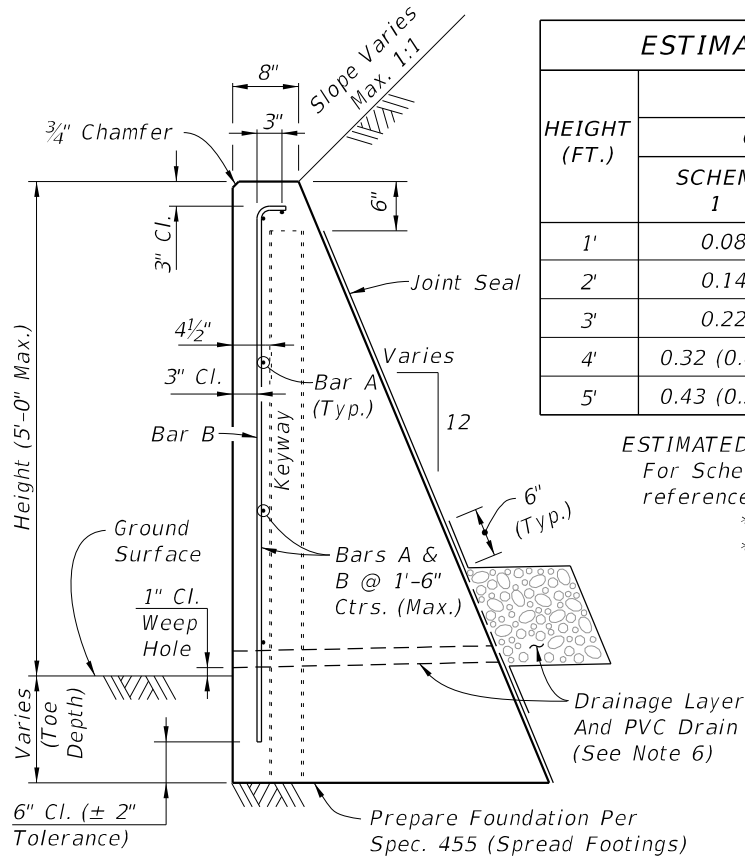
	SAFETY HAMMER	AUTOMATIC HAMMER
GRANULAR MATERIALS- RELATIVE DENSITY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY LOOSE	LESS THAN 4	LESS THAN 3
LOOSE	4 to 10	3 to 8
MEDIUM DENSE	10 to 30	8 to 24
DENSE	30 to 50	24 to 40
VERY DENSE	GREATER THAN 50	GREATER THAN 40
SILTS AND CLAYS CONSISTENCY	SPT N-VALUE (BLOWS/FT.)	SPT N-VALUE (BLOWS/FT.)
VERY SOFT	LESS THAN 2	LESS THAN 1
SOFT	2 to 4	1 to 3
FIRM	4 to 8	3 to 6
STIFF	8 to 15	6 to 12
VERY STIFF	15 to 30	12 to 24
HARD	GREATER THAN 30	GREATER THAN 24

REVISIONS						WILLIAM P. ROVIRA IV, P.E. P.E. LICENSE NUMBER 74586 TIERRA, INC. 7351 TEMPLE TERRACE HIGHWAY TAMPA, FLORIDA 33637	DRAWN BY: BMG 10/23 CHECKED BY: WPR 10/23 DESIGNED BY: BMG 10/23 CHECKED BY: WPR 10/23	STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION			SHEET TITLE: REPORT OF CORE BORINGS (2 OF 2)	REF. DWG. NO.
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION			ROAD NO.	COUNTY	FINANCIAL PROJECT ID		
								N/A	LEE	N/A	BELL BOULEVARD PEDESTRIAN BRIDGE	BW-7

10/3/2023 11:36:30 AM



KEYWAY & WALL JOINT DETAIL
(TOP VIEW)



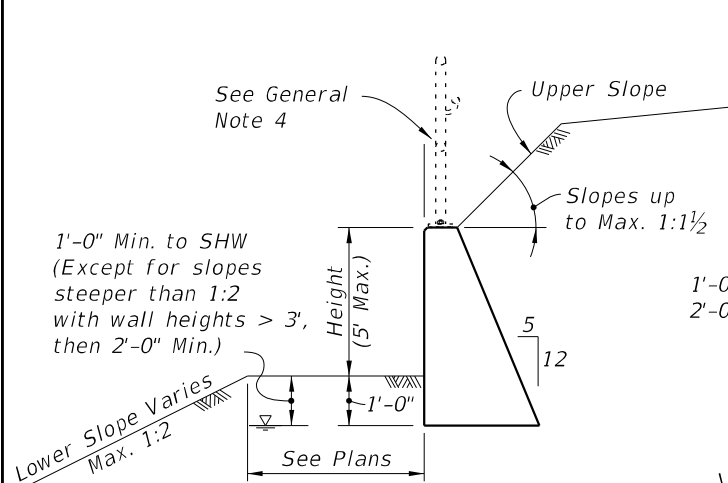
TYPICAL SECTION
C-I-P CONCRETE GRAVITY WALL

ESTIMATED QUANTITIES FOR C-I-P WALL					
HEIGHT (FT.)	PER LINEAR FOOT OF WALL				WEEP HOLES & DRAIN REQD.
	CLASS NS CONCRETE (CY)			REINF. STEEL (LB.)	
	SCHEME 1	SCHEME 2	SCHEME 3 **		
1'	0.08	0.11 (0.20*)	0.03	3 (4*)	No
2'	0.14	0.20 (0.32*)	0.09	4 (5*)	No
3'	0.22	0.32 (0.47*)	0.29	5 (6*)	Yes
4'	0.32 (0.43*)	0.47 (0.65*)	0.43	6 (7*)	Yes
5'	0.43 (0.55*)	0.65 (0.85*)	0.60	7 (8*)	Yes

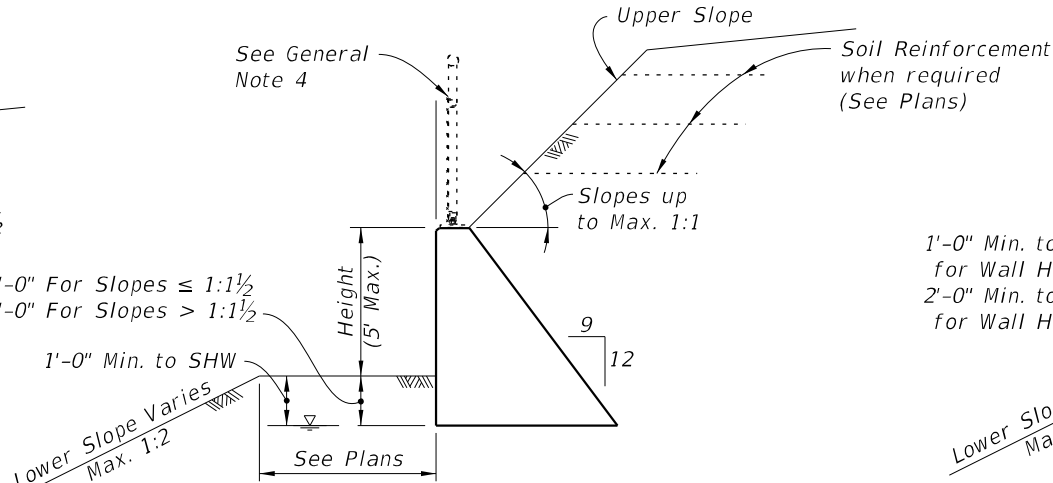
ESTIMATED QUANTITIES NOTES:
For Scheme 3 Junction Slab and Traffic Railing see the referenced Index for estimated quantities.
* Quantity for 2'-0" Toe Depth.
** Quantity for Scheme 3 assumes 1'-3" thick coping above Gravity Wall.

GENERAL NOTES

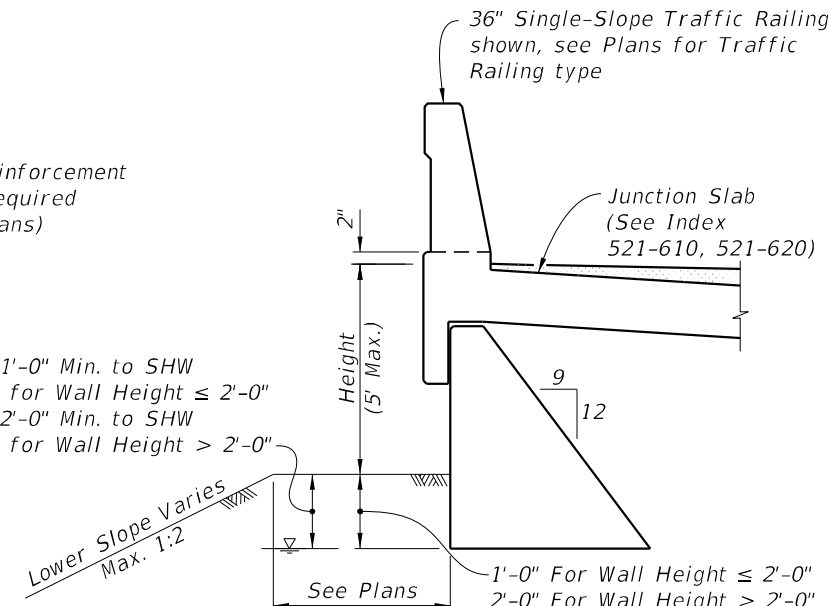
- C-I-P Gravity Walls constructed as extensions of reinforced concrete retaining walls, except for walls of proprietary designs, provide the same face texture and finish as the reinforced concrete retaining wall.
- Use Class NS Concrete for Gravity Wall per Specification 347. Concrete for Scheme 3 Junction Slab and Traffic Railing shall be Class II per Specification 346, unless otherwise specified in the plans.
- Reinforcing steel meets the requirements of Specification 931 (Grade 40 or 60). Smooth or Deformed Welded Wire Reinforcement (WWR) may be substituted on an equal area basis. Do not increase bar/wire spacing for Grade 60 reinforcing steel or WWR.
- When required, for adjunct guiderail, see Index 515-070 or 515-080 as appropriate. For adjunct Type B fence see Index 550-002.
- Joint Seal: Provide and install organic bond breaker or Type D-5 geotextile in accordance with Specifications 400 and 514 respectively. Mop all contact surfaces of concrete and Organic Felt or geotextile with cut-back asphalt. Stop Organic Felt or geotextile 6" below top of wall.
- Provide a continuous 1'x1' clean gravel or crushed rock drain for wall heights 3 ft. and higher. Wrap drainage layer as shown, with Type D-3 geotextile in accordance with Specification 514. Provide 8"x8" galvanized mesh with 1/4" openings, at the inside end of the PVC Drain Pipe. Provide 2" Ø PVC Drain Pipe (Sch. 40) at 10 ft. max. spacing (when Drainage Layer is required). Locate outermost edge of Drain Pipe a minimum of 2'-0" from wall joints.
- Cost of reinforcing steel, face texture, finish, joint seal, drain pipes, drainage layer, galvanized mesh and geotextile to be included in the Contract Unit Price for Concrete Class NS, Gravity Wall. Cost of concrete for Junction Slab in Scheme 3, to be included in Contract Unit Price for Concrete Traffic Railing Barrier With Junction Slab. Adjunct railings or fences to be paid for separately.



SCHEME 1
(No Traffic Loading Effects &
Upper Slopes ≤ 1:1½)

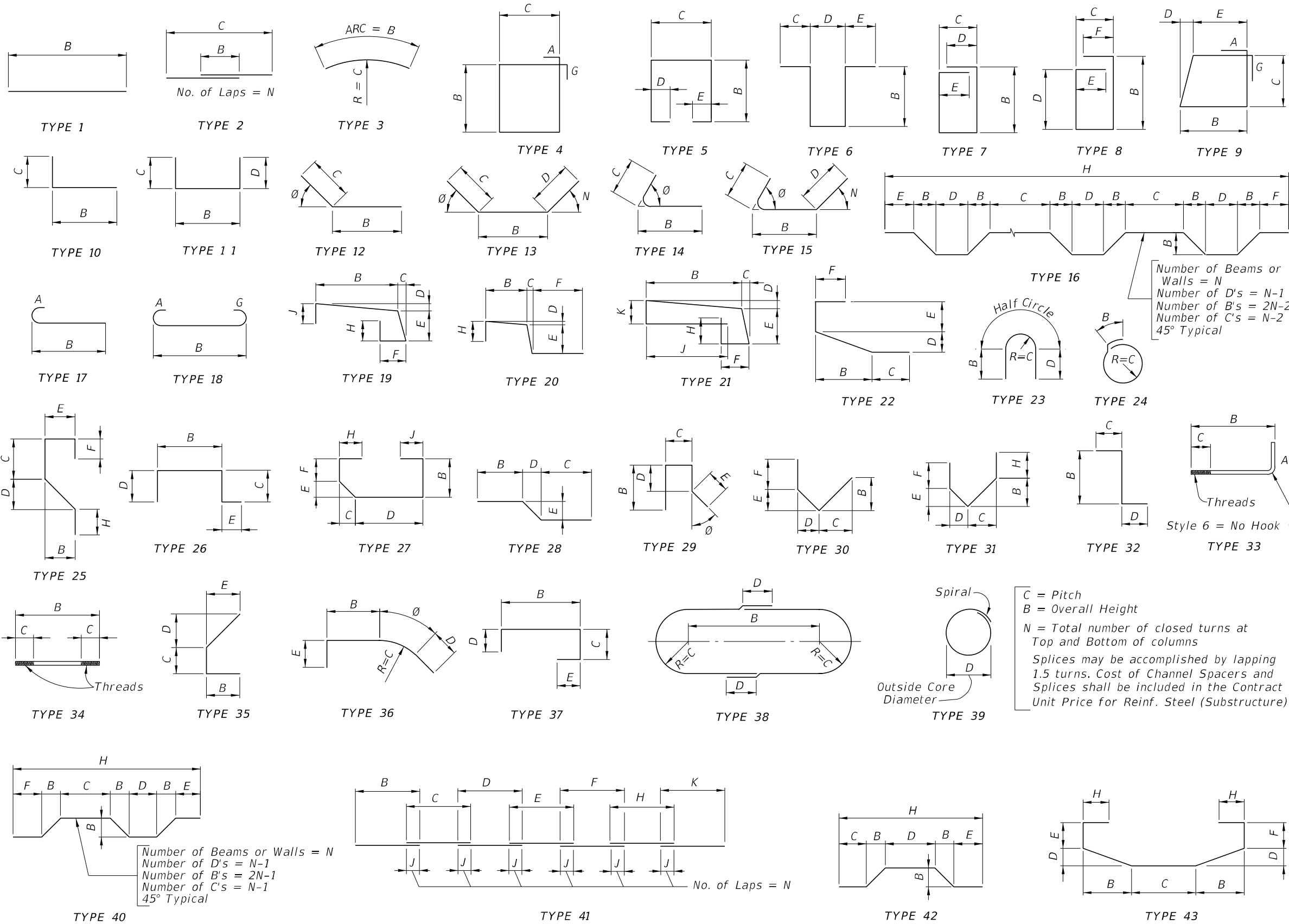


SCHEME 2
(With Traffic Loading or
Upper Slopes > 1:1½)

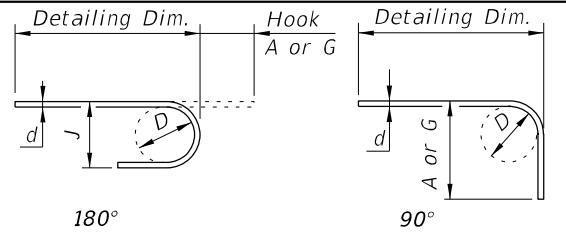


SCHEME 3
(With Traffic Railing)

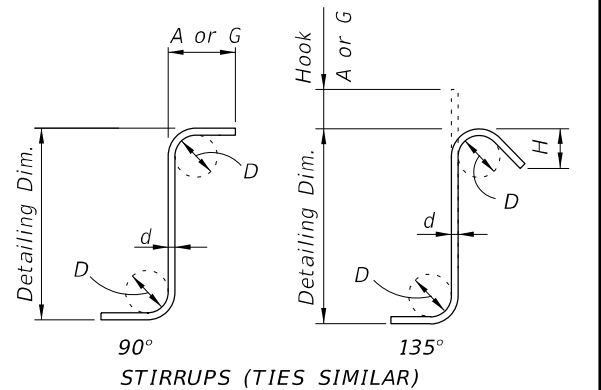
BILL OF REINFORCING STEEL		
MARK	SIZE	LENGTH
A	4	As Reqd.
B	4	As Reqd.
BAR BENDING DIAGRAM		
NOTES: 1. All bar dimensions are out to out. 2. Lap splices for Bars A must be a minimum of 1'-10".		



HOOK DETAILS



BAR SIZE	D	180° HOOKS		90° HOOKS
		A OR G	J	A OR G
#3	2 1/4"	5"	3"	6"
#4	3"	6"	4"	8"
#5	3 3/4"	7"	5"	10"
#6	4 1/2"	8"	6"	1'-0"
#7	5 1/4"	10"	7"	1'-2"
#8	6"	11"	8"	1'-4"
#9	9 1/2"	1'-3"	11 3/4"	1'-7"
#10	10 3/4"	1'-5"	1'-1 1/4"	1'-10"
#11	12"	1'-7"	1'-2 3/4"	2'-0"
#14	18 1/4"	2'-3"	1'-9 3/4"	2'-7"
#18	24"	3'-0"	2'-4 1/2"	3'-5"
STYLE		1		3



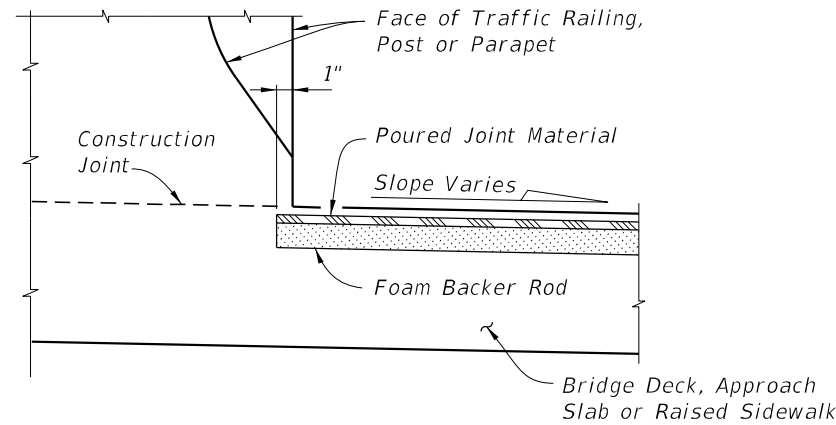
STIRRUP & TIE HOOK DIMENSIONS

BAR SIZE	D	90° HOOKS		135° HOOKS
		A or G	A or G	H *
#3	1 1/2"	4"	4"	2 1/2"
#4	2"	4 1/2"	4 1/2"	3"
#5	2 1/2"	6"	5 1/2"	3 3/4"
#6	4 1/2"	1'-0"	8"	4 1/2"
#7	5 1/4"	1'-2"	9"	5 1/4"
#8	6"	1'-4"	10 1/2"	6"
STYLE		4		5

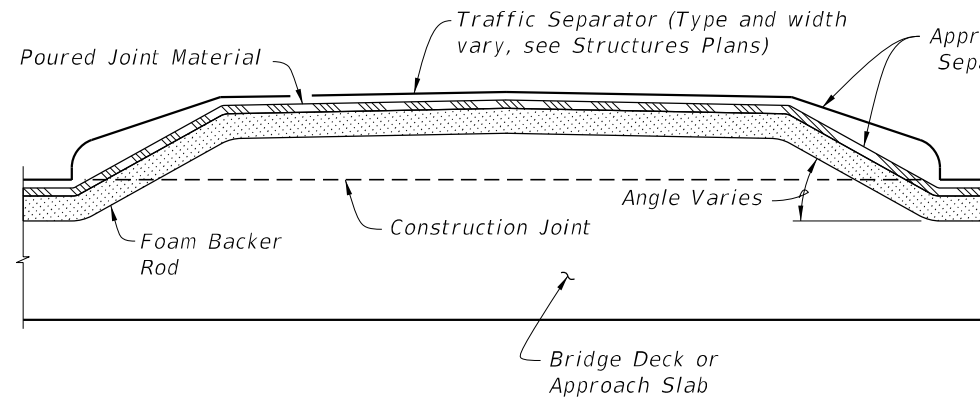
STYLE 6 = NO HOOK

* Dimension is approximate.
Hook Styles Detailed on this sheet are for Illustration Only.
Actual Hook Style for any particular bar will be shown under A or G Heading on REINFORCING BAR LIST sheet(s) in Structures Plans.
All Dimensions are out-to-out.

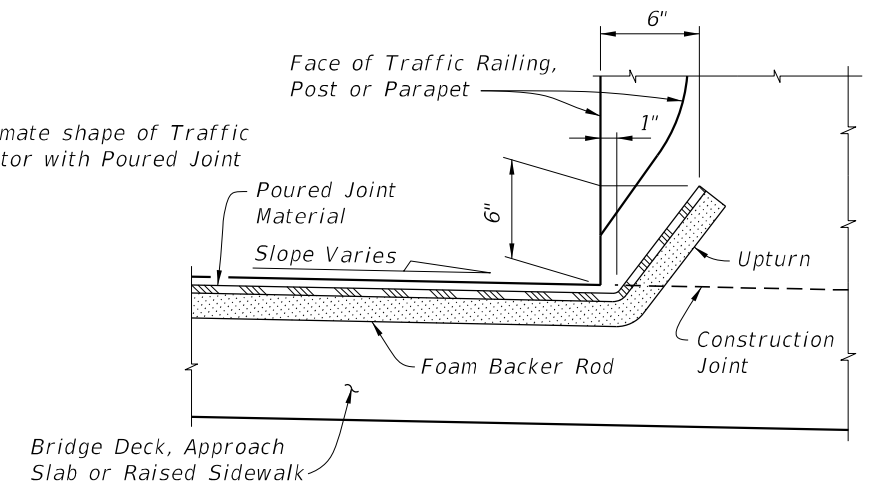
NOTE: For Bar Dimensions See REINFORCING BAR LIST Sheet(s) in Structures Plans.



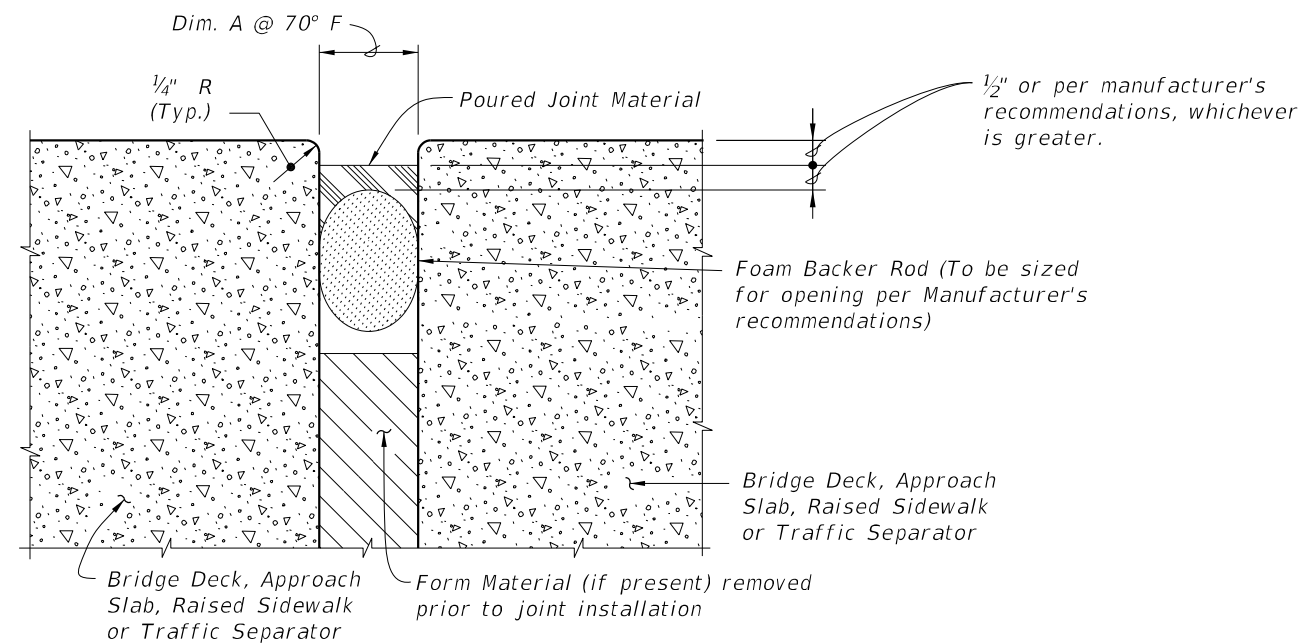
PARTIAL SECTION ALONG Q JOINT
JOINT TREATMENT AT HIGH SIDE OF
DECK WITH SLOPES 1% OR GREATER



PARTIAL SECTION ALONG Q JOINT,
JOINT TREATMENT AT TRAFFIC SEPARATOR



PARTIAL SECTION ALONG Q JOINT
JOINT TREATMENT AT LOW SIDE OF DECK OR
HIGH SIDE OF DECK WITH SLOPES < 1%



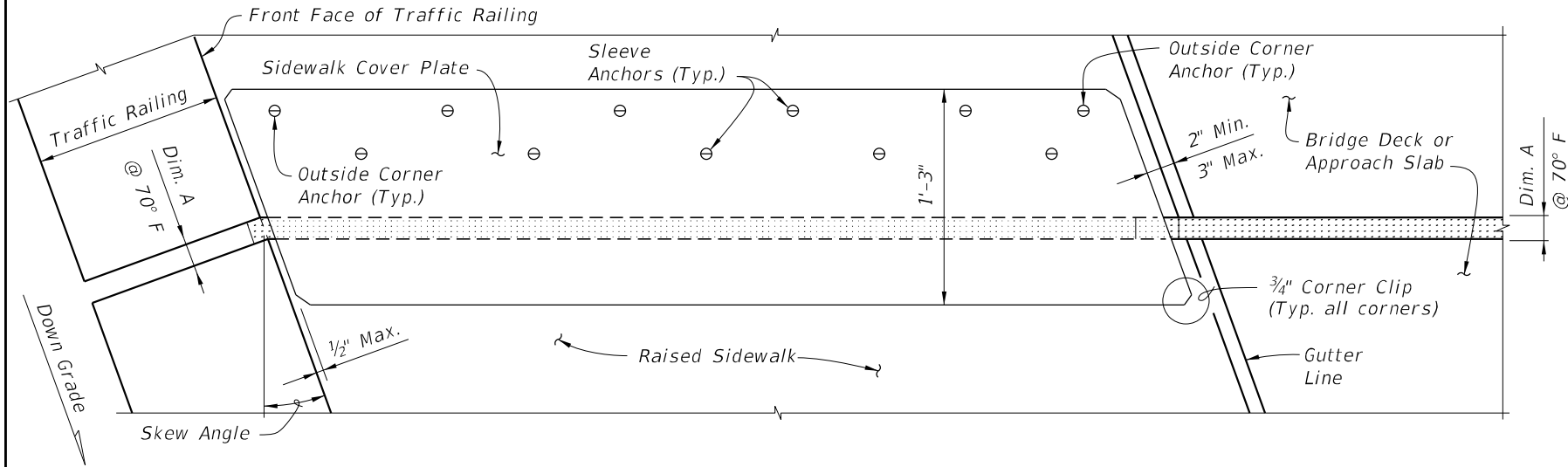
TYPICAL SECTION THRU JOINT

GENERAL NOTES:

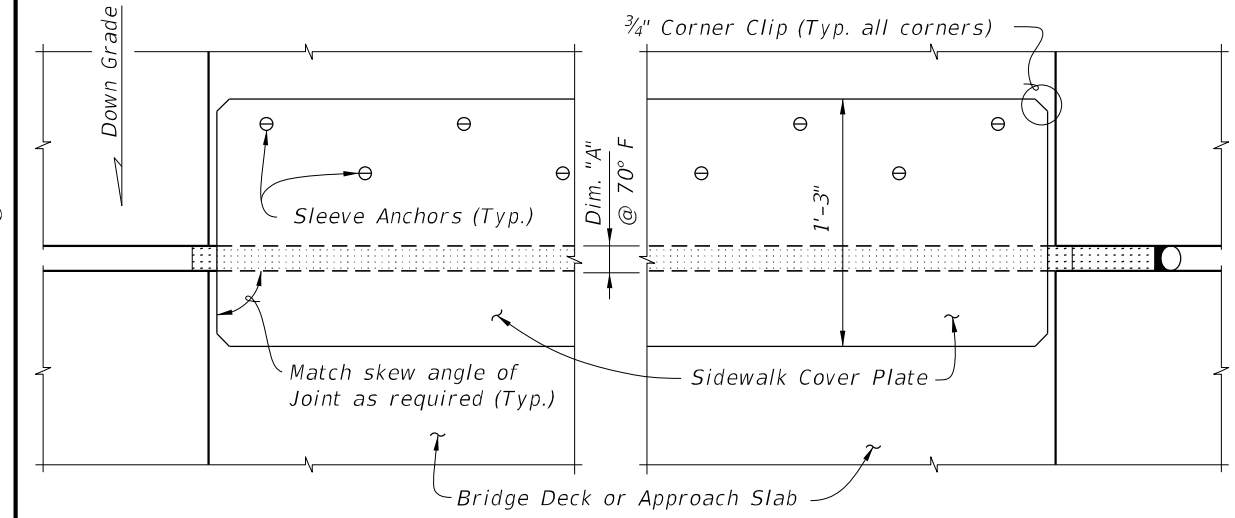
1. Furnish and install Poured Joint With Backer Rod Expansion Joint Systems in accordance with Specification Sections 458 and 932 using Type D silicone sealant material.
2. Refer to the Structures Plans, Poured Expansion Joint Data Table for Dim. A @ 70° F.

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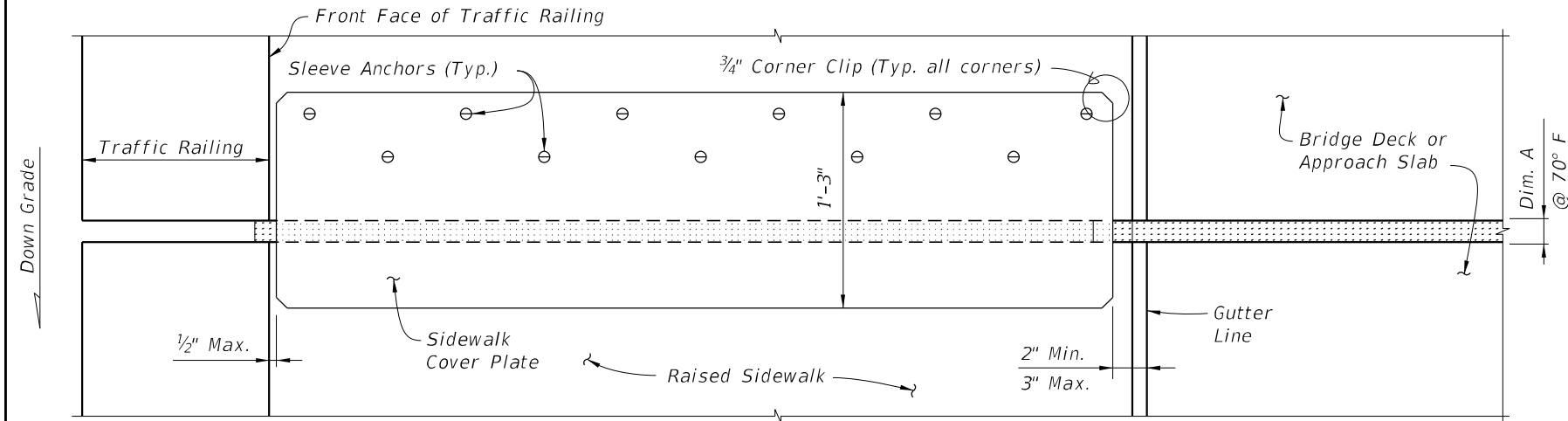
LAST REVISION 11/01/23	REVISION	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	EXPANSION JOINT SYSTEM - POURED JOINT WITH BACKER ROD	INDEX 458-110	SHEET 1 of 2
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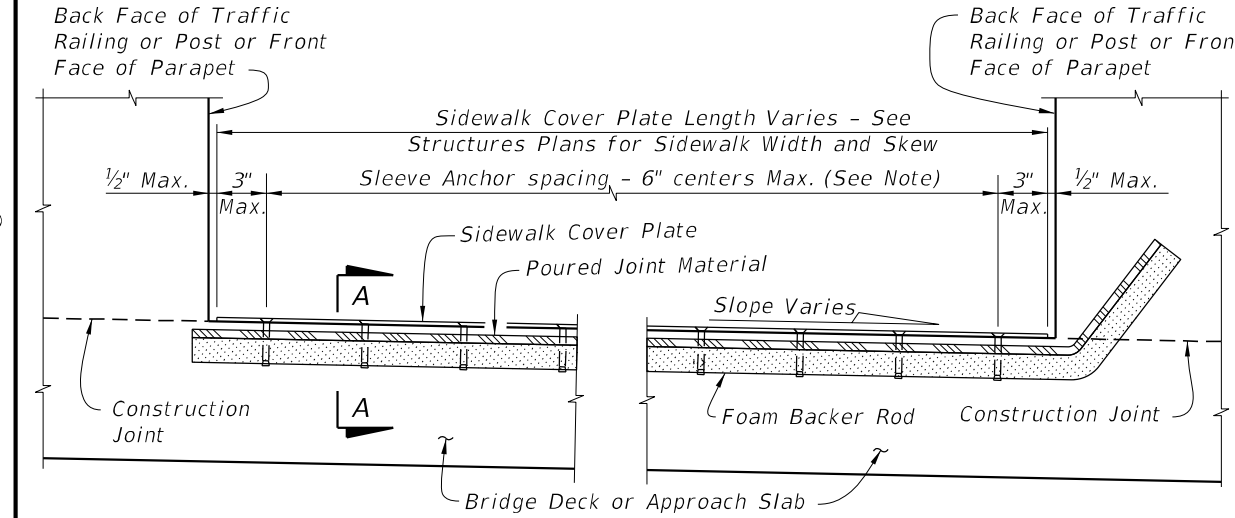
PARTIAL PLAN VIEW OF SKEWED JOINTS



PARTIAL PLAN VIEW

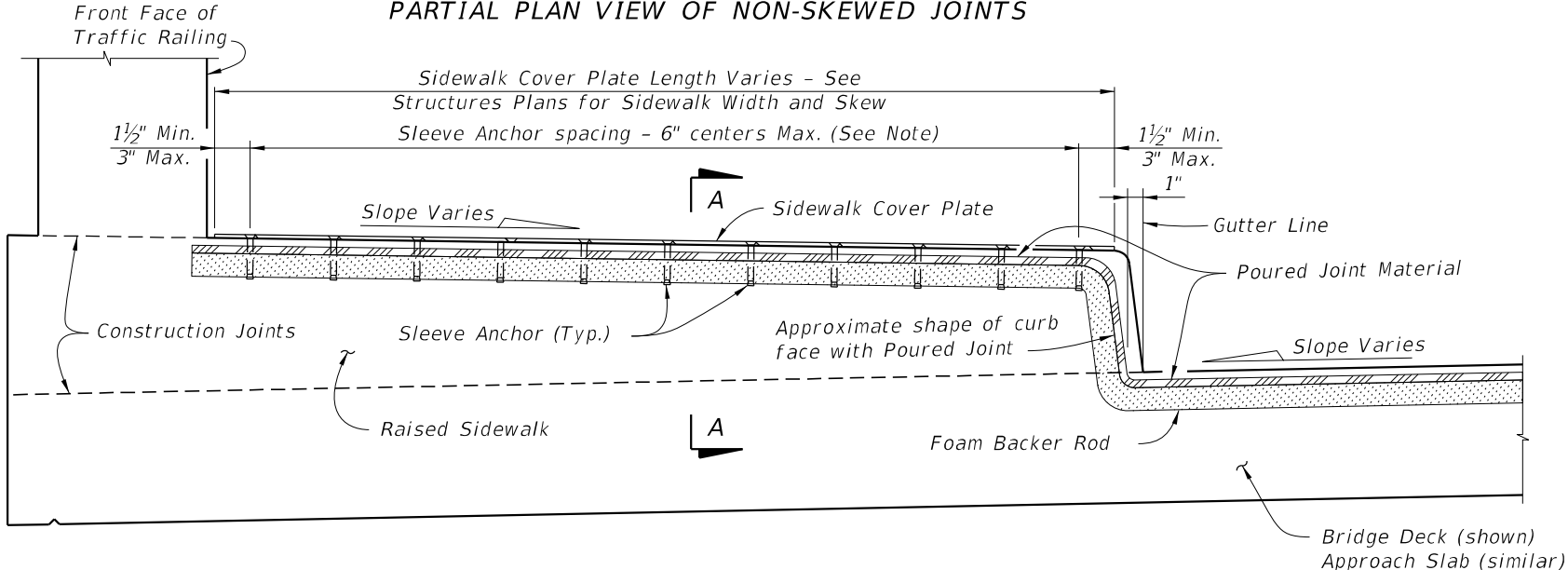


PARTIAL PLAN VIEW OF NON-SKEWED JOINTS



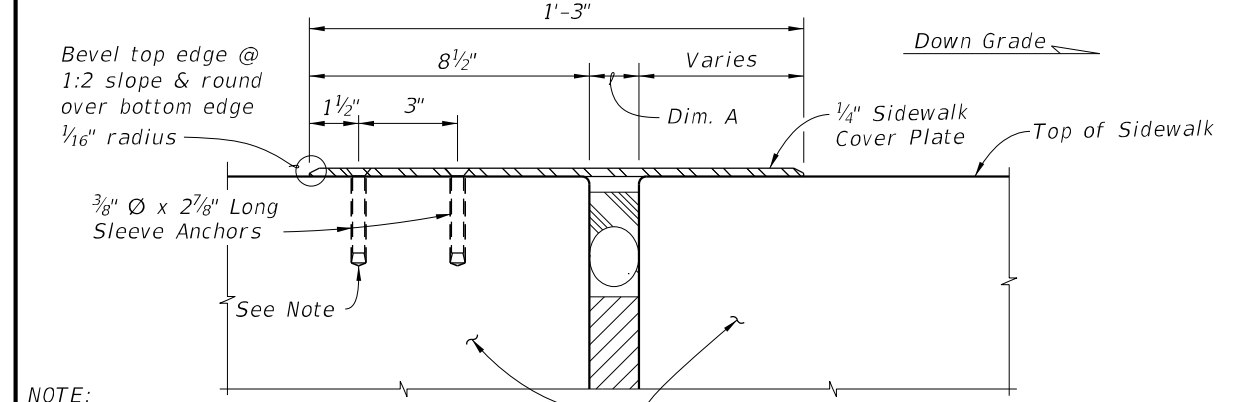
PARTIAL SECTION ALONG Q JOINT

FLUSH SIDEWALK DETAIL



PARTIAL SECTION ALONG Q JOINT

RAISED SIDEWALK DETAIL



NOTE:
Sleeve Anchors are required at the two outside corners of the Sidewalk Cover Plate. Space Sleeve Anchors uniformly between the corner anchors.

SECTION A-A

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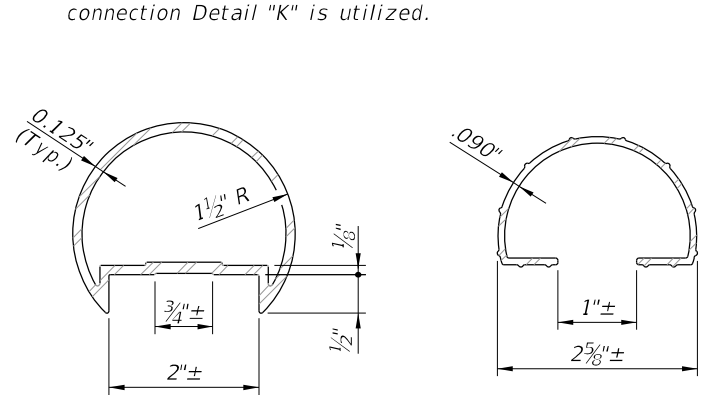
LAST REVISION 07/01/13	REVISION	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	EXPANSION JOINT SYSTEM - POURED JOINT WITH BACKER ROD	INDEX 458-110	SHEET 2 of 2
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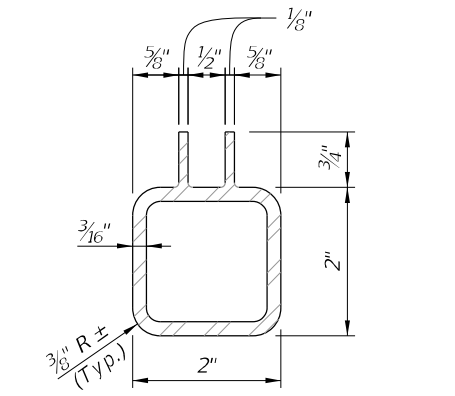
3D VIEW OF RAILING WITH TYPE 1 - PICKET INFILL PANEL
(42" Height shown, 48" Height Similar)

TABLE 1 - RAILING MEMBERS				
MEMBER	ALLOY ⁽¹⁾	DESIGNATION	OUTSIDE DIMENSION	WALL THICKNESS
Posts (Type "A" & "B")	6061-T6	RT 2x2x0.250	2.00" x 2.00"	0.250"
Posts (Type "C")	6061-T6	Extrusion 1½x2½x0.125	1.50" x 2.50"	0.125"
Top Plate (Type "C")	6061-T6	Extrusion (See Details)	2¾" x 7"	Varies
Top Rail	6061-T6	2½" NPS (Sch. 10)	2.875"	0.120"
		3" Round Top Cap Rail	3.000"	0.125"
End Hoops	6063-T5	2½" NPS (Sch. 10)	2.875"	0.120"
		3.00 OD x 0.125 Wall	3.000"	0.125"
Top Rail Joint/Splice Sleeves	6063-T5	2.50 OD x 0.125 Wall	2.500"	0.125"
		Top Cap Rail Inner Sleeve	2.800"	0.090"
Intermediate & Bottom Rail	6061-T6	RT 2x2x0.250	2.00" x 2.00"	0.250" ⁽²⁾
Int. & Bottom Rail Post Connection Sleeve	6063-T5	1.50 OD x 0.125 Wall ⁽³⁾	1.500"	0.125"
Handrail Joint/Splice Sleeves	6063-T5	1" NPS (Sch. 40)	1.315"	0.133"
	6063-T5	1.50 OD x 0.125 Wall	1.500"	0.125"
Handrails	6061-T6	1½" NPS (Sch. 40)	1.900"	0.145"
Handrail Support Bar	6061-T6	¾" Ø Round Bar	0.750"	N/A
Pickets (Type 1 Infill Panel)	6061-T6	¾" Ø Round Bar	0.750"	N/A
Infill Panel Members (Types 2 - 5)	6063-T5	Varies (See Details)	Varies	Varies

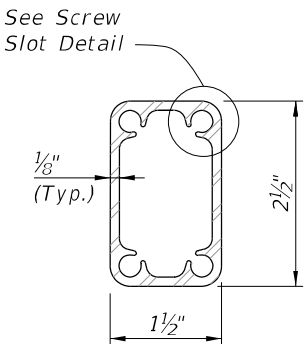
TABLE 1 NOTES:
(1) Alloy 6061-T6 or 6063-T52 & T6 may be substituted for Alloy 6063-T5.
(2) 0.188" wall thickness permitted for rails with post spacings less than 5'-9".
(3) 1" NPS (Sch. 40) non-slit rail sleeves may be substituted when welded connection Detail "K" is utilized.



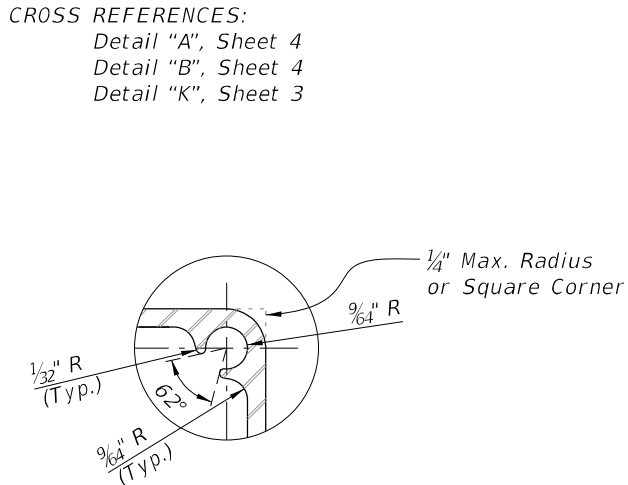
3" ROUND TOP CAP RAIL TOP CAP RAIL INNER
SPLICE SLEEVE
===== ALTERNATE TOP RAIL SECTION =====



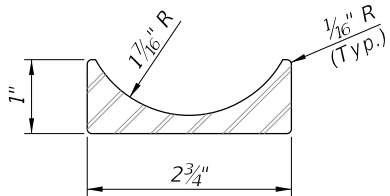
ALTERNATIVE BOTTOM &
INTERMEDIATE RAIL SECTION
FOR TYPE 3, 4 & 5 RAILINGS



POST TYPE "C"
SCREW SLOT SECTION



SCREW SLOT DETAIL

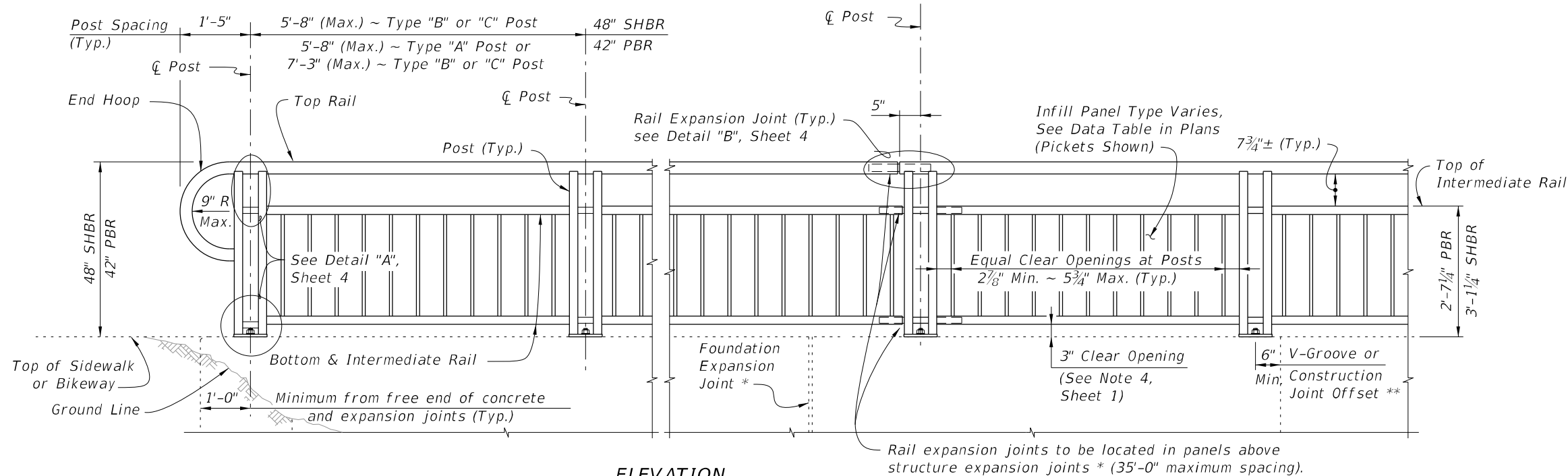


OPTIONAL TOP PLATE
EXTRUSION SECTION (POST TYPE "C")

NOTES

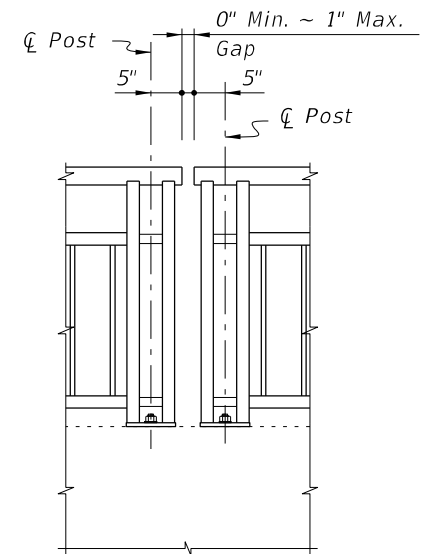
1. Shop Drawings are required, see Specification Section 515.
2. For bridge mounted railings, work this Index with Index 515-061 Bridge Bicycle/Pedestrian Railing (Aluminum)
3. Materials:
 A. Structural Extrusions, Tube, Pipe and Bars: Table 1 and ASTM B221 or ASTM B429
 a. Top, bottom and intermediate rail corner bends with maximum 4'-0" post spacing may be Alloy 6063-T6
 B. Base Plates and Rail Caps: ASTM B209 Alloy 6061-T6
 C. Perforated panels (Type 5) Alloy 3003-H14
 D. Stainless steel (SS) screws: Type 316 or 18-8 Alloy
 E. Aluminum screws: Alloy 2024-T4 or 7075-T73
 F. Galvanized Steel Fasteners: coated in accordance with Specification Section 962.
 a. Hex Head Bolts: ASTM A 307
 1. ⅝" diameter single bolt option, Grade 36
 2. ⅞" diameter four bolt option, Grade 55
 b. Adhesive Anchors: ASTM F1554 fully threaded rods, Grade 55
 c. Hex Nuts: ASTM A563
 d. Flat Washers: ASTM F436
 e. Plate Washers: ASTM A36 or ASTM A706 Grade 36.
 G. Shims: ASTM B209 Alloy 6061 or 6063
 H. Bearing Pads: Provide ⅛" thick Plain, Fabric Reinforced or Fabric Laminated Bearing Pads meeting the requirements of Specification Section 932 for Ancillary Structures.
4. Fabricate pickets and vertical panel elements parallel to the posts; except Type 2, 3 and 5 panel infills may be fabricated parallel to the longitudinal grade. Maintain a maximum clear opening of 5⅞" for standard installations and 3⅞" when a 4" sphere requirement is indicated in the Data Tables.
5. Locate railing expansion Joints between the posts on either side of the deck expansion joint. Maximum spacing between expansion joints is 35'-0".
6. Field splices are similar to the Expansion Joint Detail and may be approved by the Engineer to facilitate handling; but the top rail must be continuous across a minimum of two posts.
7. For intermediate and bottom horizontal rails, the screwed joints shown may be substituted with alternate joints shown in detail "K" for Post Type "A" & "B".
8. Make corners and changes in tangential longitudinal alignment with a 9" bend radius or terminate adjoining sections with mitered end sections when handrails are not required.
9. For changes in tangential longitudinal alignment greater than 45°, position posts a maximum of 2'-0" each side of the corner but not at the corner apex.
10. For curved longitudinal alignments, shop bend the top and bottom rails and handrails to match the alignment radius.
11. Handrails are required and must be continuous at landings for:
 A. Grades Steeper than 5%,
 B. Three or more steps
12. Installation: Cutting of reinforcing steel is permitted for post installed anchors.

CROSS REFERENCES:
Detail "A", Sheet 4
Detail "B", Sheet 4
Detail "K", Sheet 3



ELEVATION
(Showing Outside Face of Railing with Type "A" Posts)

TYPICAL RAILING DETAILS & RAILINGS ON GRADES 0% TO 5%
(Type 1 - Picket Railing Shown, Other Types Similar)

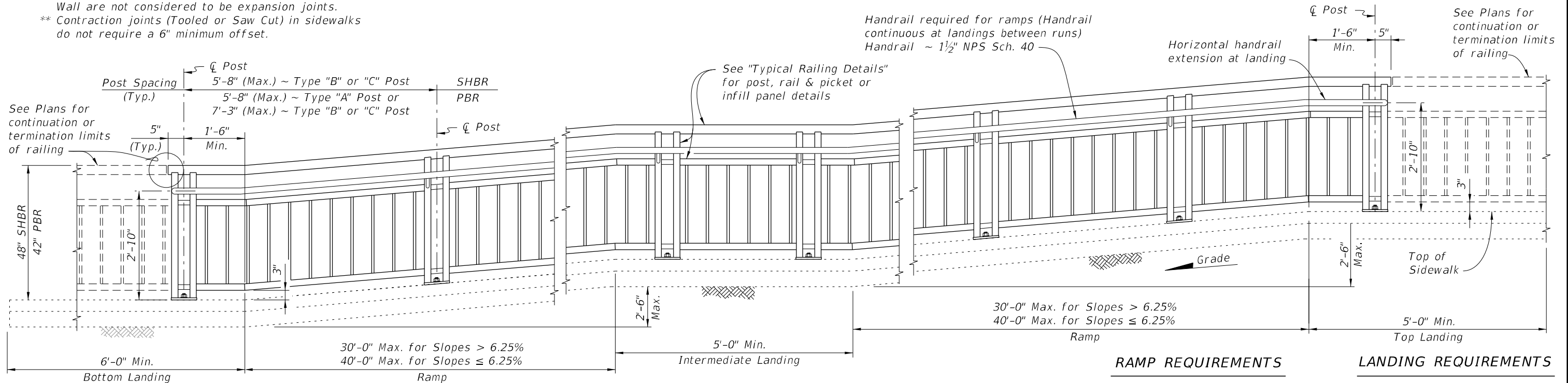


Note: Non-continuous corners are permitted when handrails are not required.

EXPANDED ELEVATION AT CORNERS
DETAIL FOR NON-CONTINUOUS RAILING AT CORNERS

NOTES:

- * Keyed construction joints in Index 400-011 Gravity Wall are not considered to be expansion joints.
- ** Contraction joints (Tooled or Saw Cut) in sidewalks do not require a 6" minimum offset.



ELEVATION
(Showing Inside Face of Railing with Type "A" Posts)

RAILINGS ON GRADES STEEPER THAN 5%
(Type 1 - Picket Railing Shown, Other Types Similar)

RAMP REQUIREMENTS

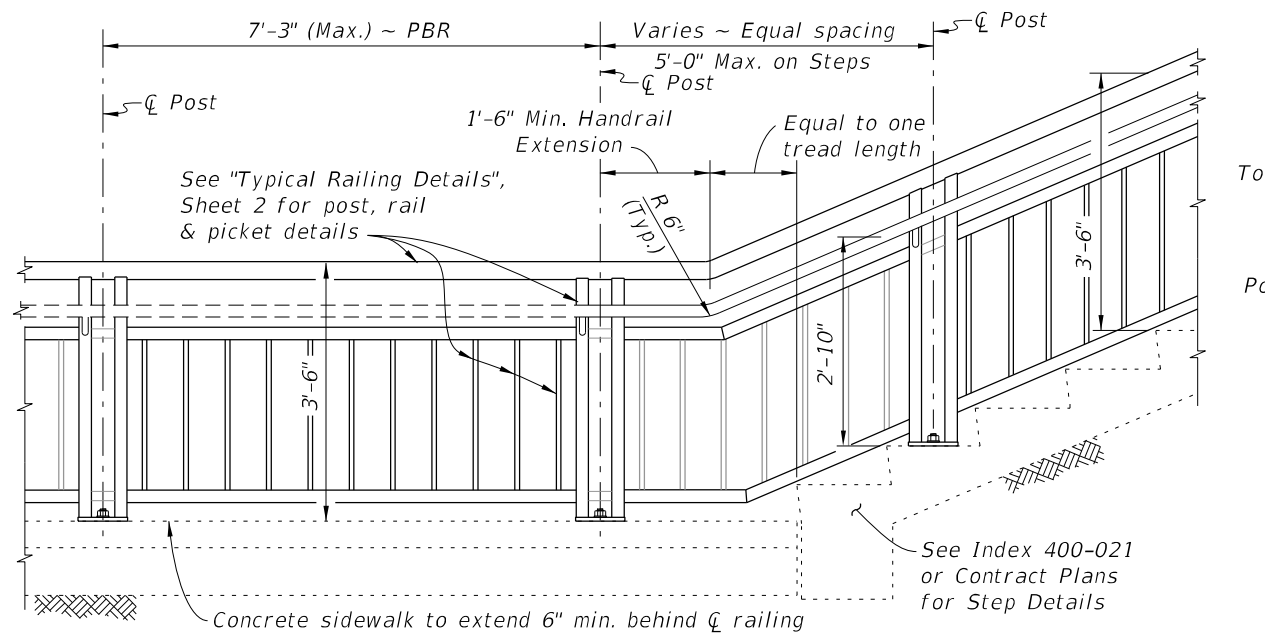
For slopes greater than 5%:
Max. ramp slope = 8.33%
Max. ramp cross-slope = 2.0%

LANDING REQUIREMENTS

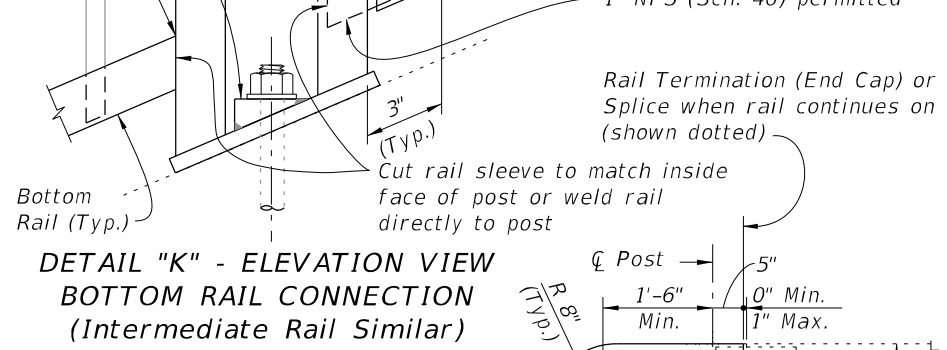
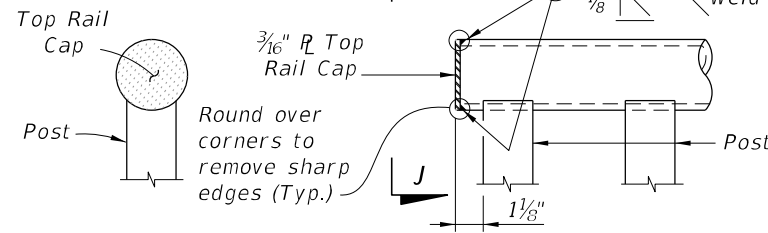
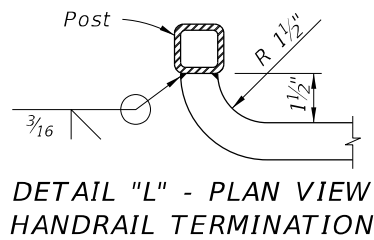
Max. landing slope = 2%
Max. landing cross-slope = 2%

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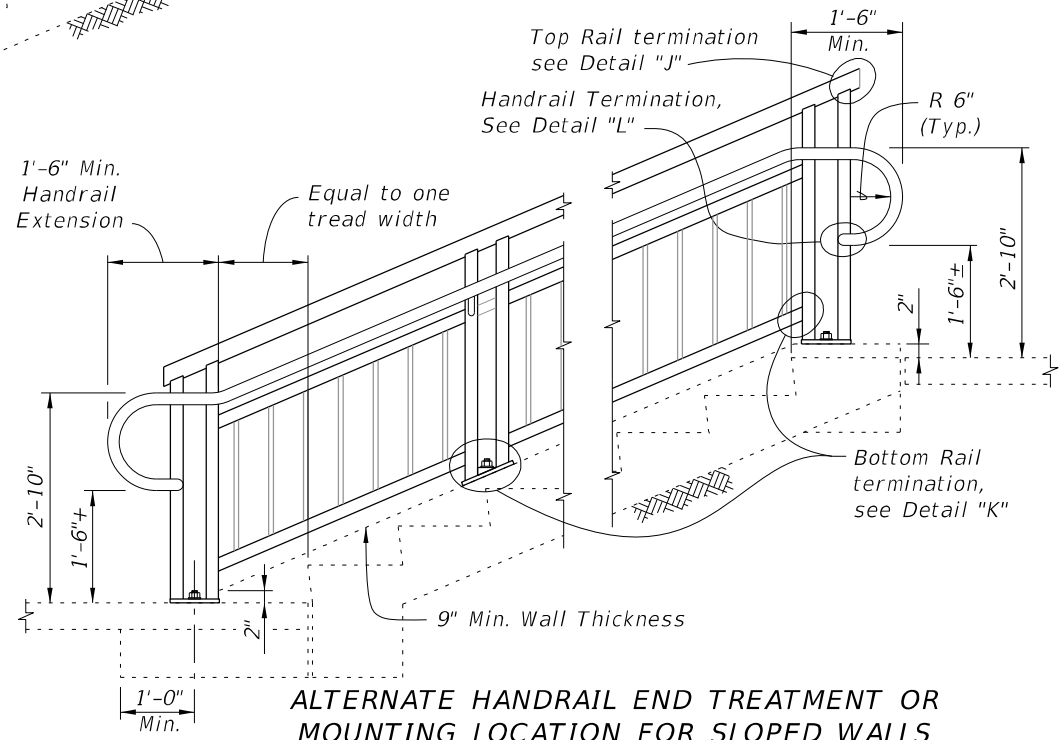
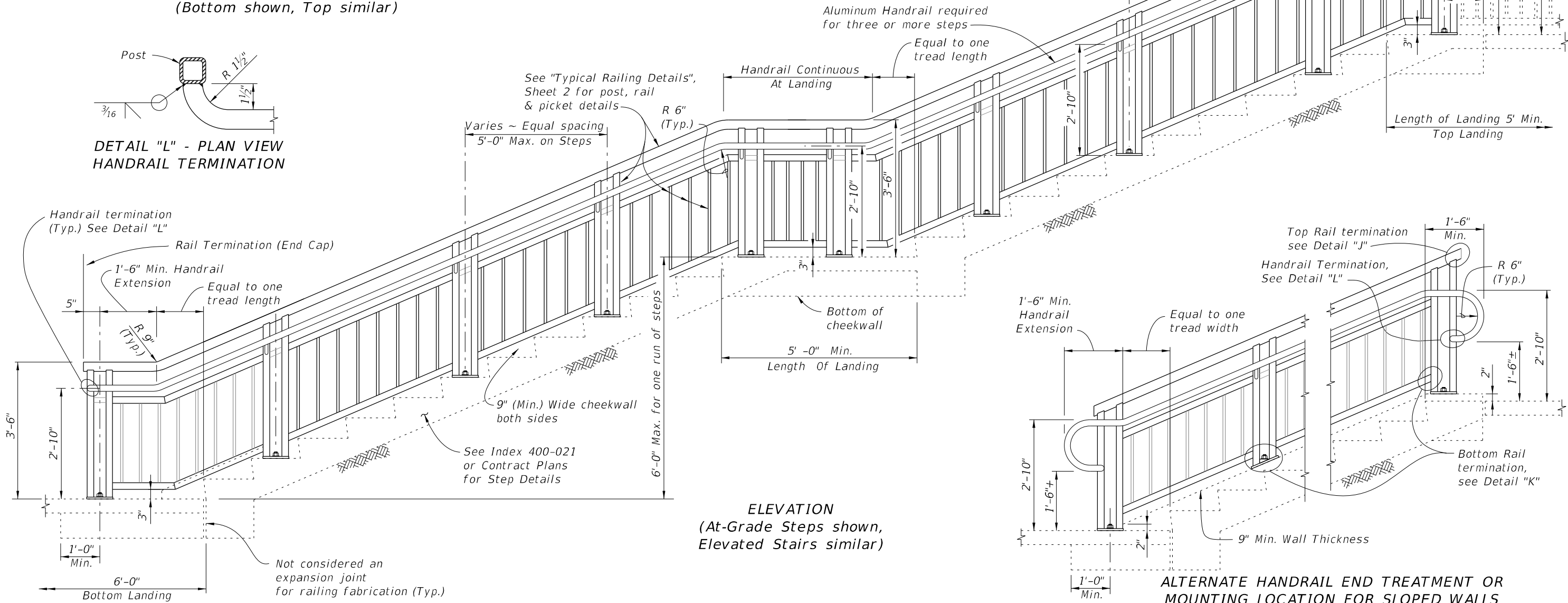
LAST REVISION 11/01/15	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	PEDESTRIAN/BICYCLE RAILING (ALUMINUM)	INDEX 515-062	SHEET 2 of 9
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RAILING CONTINUATION BEYOND STEPS OR STAIRS
(Bottom shown, Top similar)



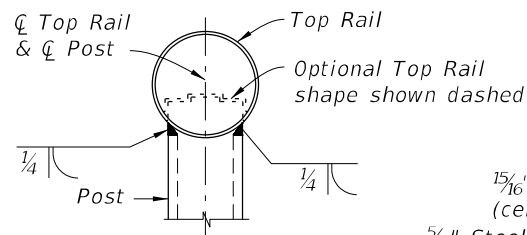
RAIL TERMINATION DETAILS



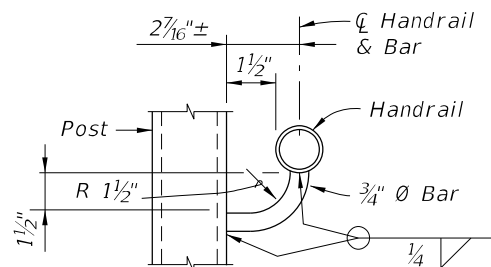
RAILINGS ON STEPS & STAIRS

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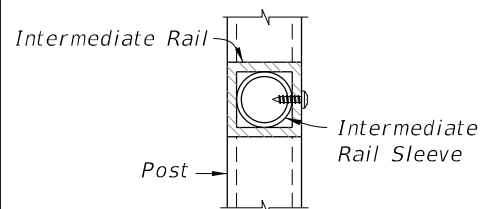
LAST REVISION	DESCRIPTION:	FDOT	FY 2024-25 STANDARD PLANS	PEDESTRIAN/BICYCLE RAILING (ALUMINUM)	INDEX	SHEET
11/01/16					515-062	3 of 9



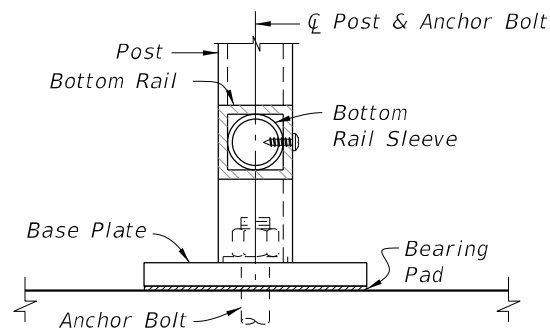
SECTION A-A
(Top Rail Connection)



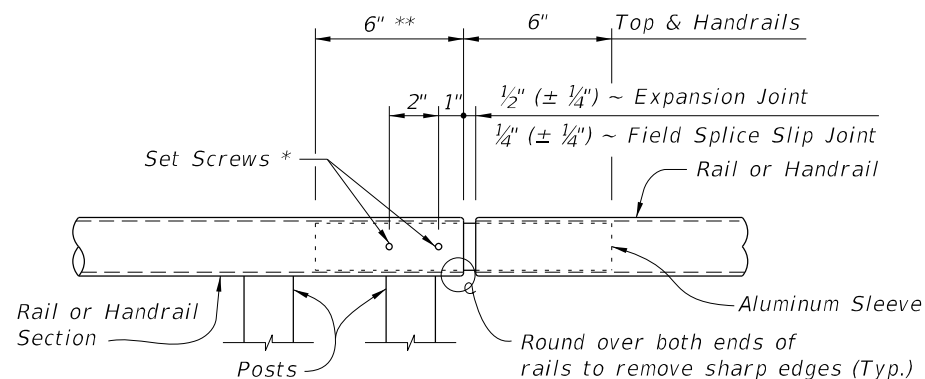
SECTION B-B
(Handrail Connection)



SECTION C-C
(Intermediate Rail Connection)



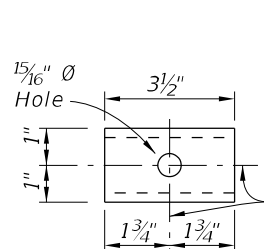
SECTION D-D
(Bottom Rail Connection -
Single Anchor Bolt Shown)



ROUND RAILS - TOP RAIL OR HANDRAIL
(Top Rail at Expansion Joint Shown)

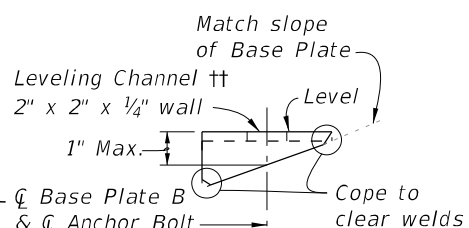
DETAIL "B" - EXPANSION JOINT (FIELD SPLICE SLIP JOINT SIMILAR)

**PLATE WASHER
DETAIL**



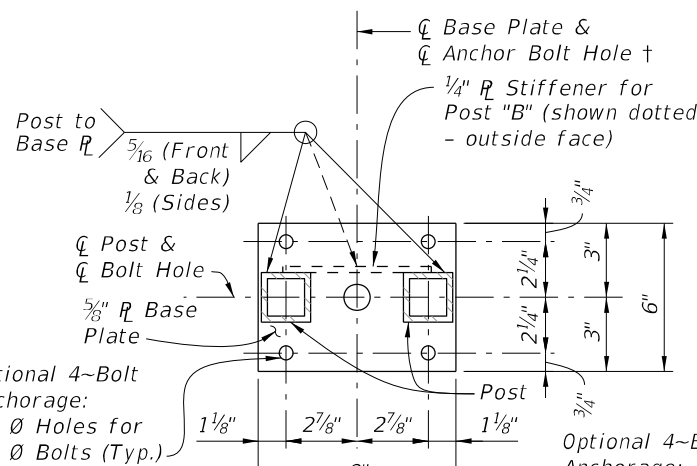
TOP VIEW

SHIM PLATE DETAIL

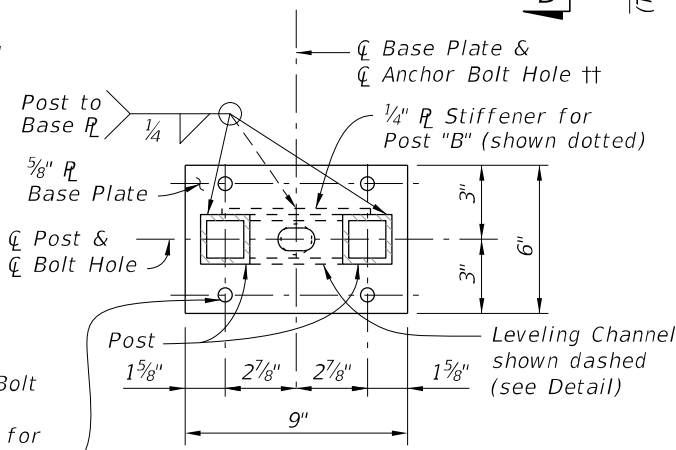


SIDE VIEW

LEVELING CHANNEL DETAIL

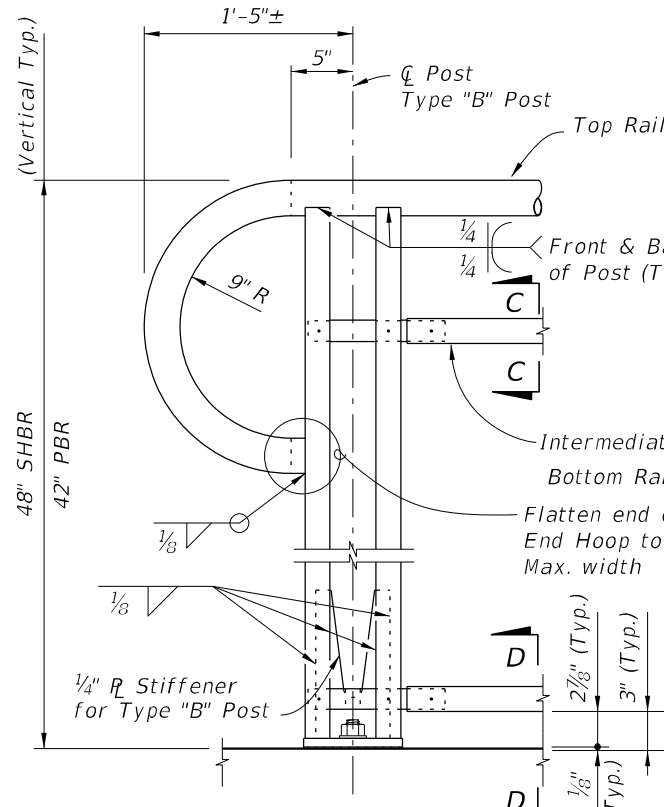


BASE PLATE A



BASE PLATE B

SECTION G-G - BASE PLATE DETAILS



DETAIL "A" - RAIL CONNECTIONS
(Showing Inside Face of Railing)
(Pickets/Panels and 4~Bolt Anchorage Not Shown for Clarity)

NOTES:

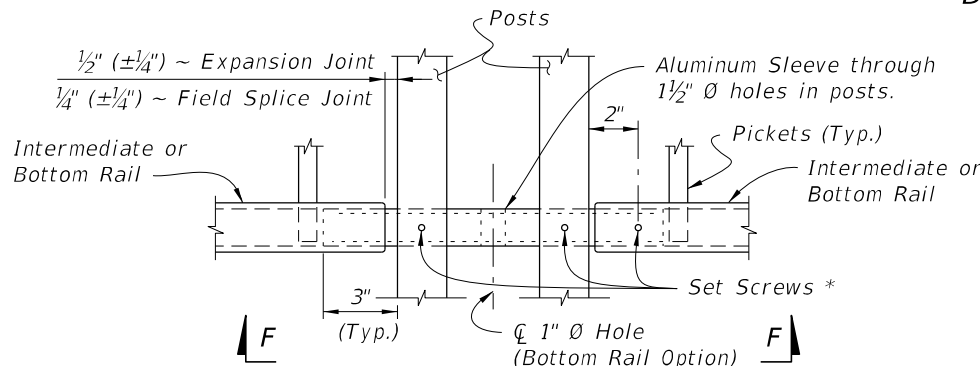
† Base Plate A (Ramps - Bolts normal) use 1/16 inch Ø Holes for Single Anchor Bolts with Flat Washers for slopes ≤ 8.33%.

†† Base Plate B (Stairs - Bolts plumb) use 1/4 inch Ø Holes for Single Anchor Bolts with Beveled Plate and Washers for slopes > 8.33% to ≤ 15%; use 1/16 inch x 1/2 inch Slotted Holes with Leveling Channel for slopes > 15%.

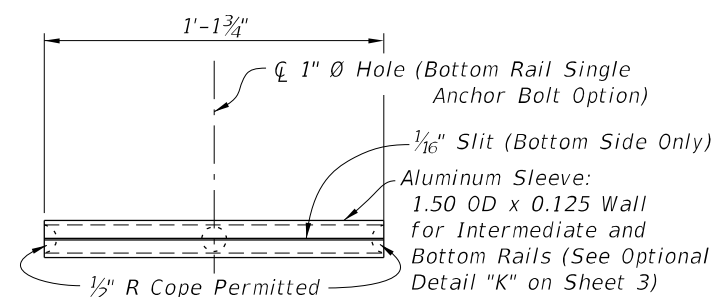
* 1/4 inch Ø x 3/4 inch Pan Head Aluminum or Stainless Steel Set Screws. Screws must be set flush against the outside face of rails & posts and underside of handrails. A single tack weld (1/2 inch max. length) at top of the sleeve for each post may be substituted for the Set Screws. Do not provide Set Screws for Rails at free end of Expansion Joints.

** Embedded length may be 4 inch for plug welded connection.

**POST "B" STIFFENER
DETAIL**



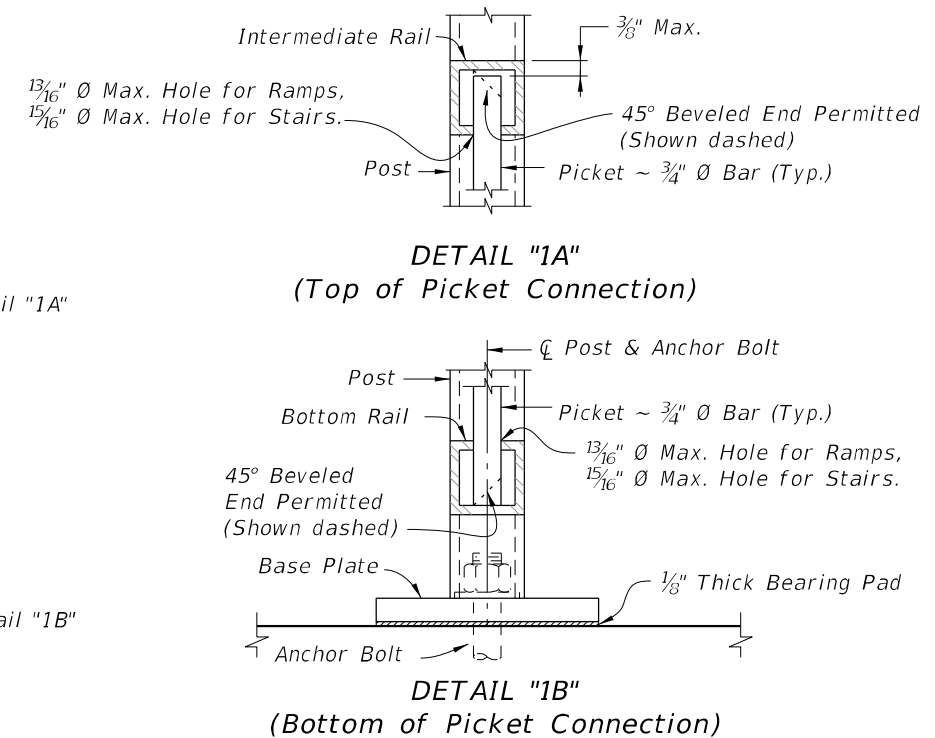
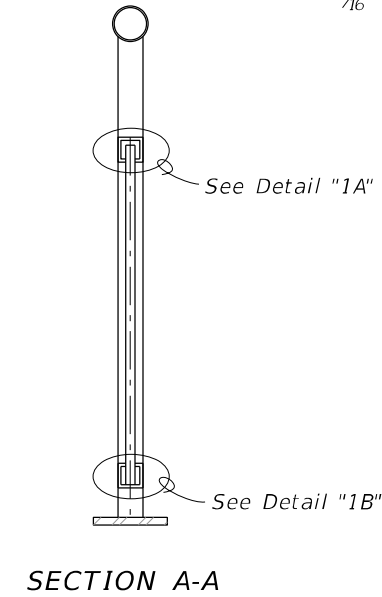
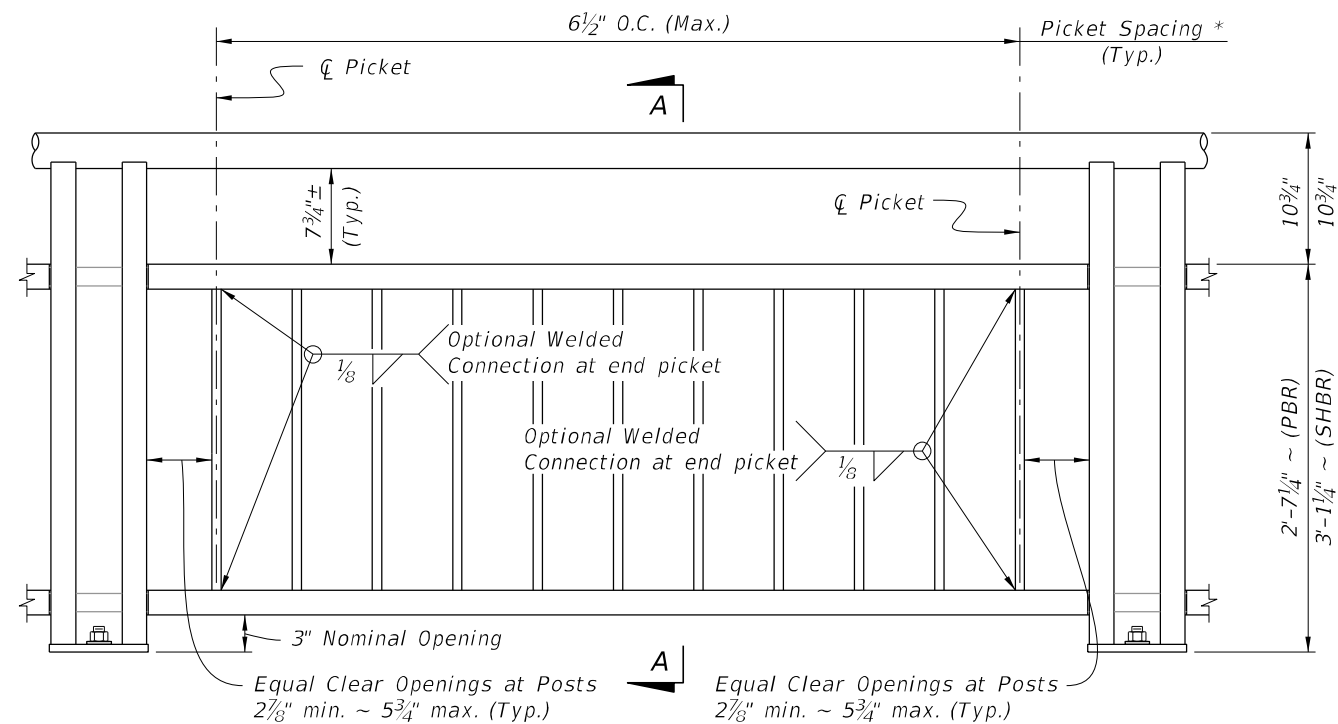
SQUARE RAILS - INTERMEDIATE OR BOTTOM RAIL
(Bottom Rail Shown at Expansion Joint Shown)



VIEW F-F
INTERMEDIATE OR BOTTOM RAIL -
ALUMINUM SLEEVE DETAIL (Bottom Side Shown)

CROSS REFERENCE:

For location of Details "B", See Sheet 2.



PICKET NOTES:
 * Picket Spacing of 6 1/2" centers is based on a 3/4" Ø Bar for standard applications.
 When shown in the Contract Plans a 4 1/2" picket spacing may be required. See Note 4 (Sheet 1).

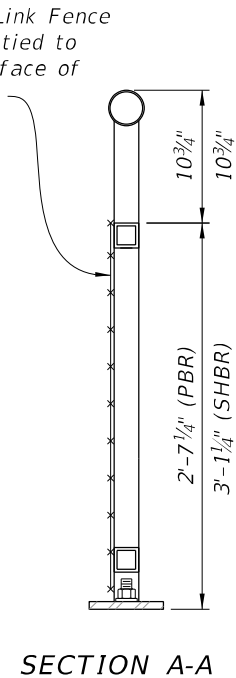
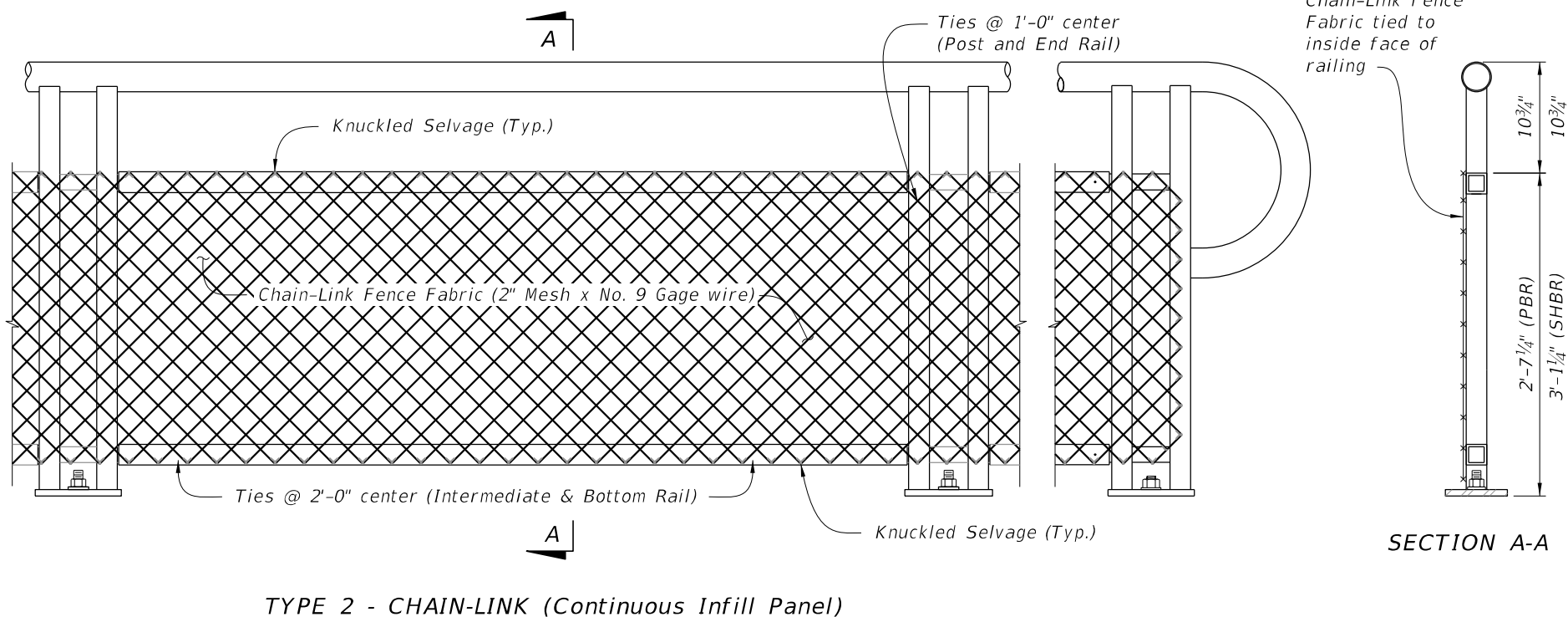


TABLE 2 - CHAIN-LINK PANEL COMPONENT MATERIALS		
COMPONENT	ASTM	COMPONENT INFORMATION
Chain-Link Fence Fabric (2" mesh with knuckled top and bottom selvage)	A392	Zinc-Coated Steel - No. 9 gage (coated wire diameter), Class 2 Coating
	A491	Aluminum-Coated Steel - No. 9 gage (coated wire diameter)
	F668	Polyvinyl Chloride (PVC) Coated Steel - No. 9 gage Zinc-Coated Wire (metallic-coated core wire diameter) ~ See Plans for specified color of PVC.
Tie Wires	F626	Zinc-Coated Steel Wire - No. 9 gage with coating to match Chain-Link Fence Fabric.
Tension Bars	F626	3/16" (min. thickness) x 3/4" (min. width) x 2'-3' (min. height) Steel Bars
Miscellaneous Fence Components	F626	Zinc-Coated Steel

CHAIN-LINK PANEL NOTE:
 Chain-Link Fence Fabric shall be continuous along limits of railing.
 Splicing of Chain-Link panels using Tension Bars at 20'-0" minimum increments is permitted.

NOTE:
 See Plans for Infill Panel option required.

10/3/2023 12:50:23 PM

LAST REVISION	DESCRIPTION:	FY 2024-25 STANDARD PLANS	PEDESTRIAN/BICYCLE RAILING (ALUMINUM)	INDEX	SHEET
11/01/21				515-062	6 of 9

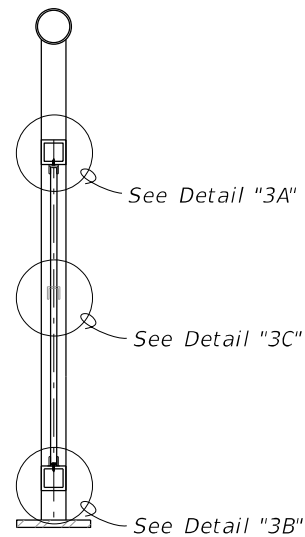
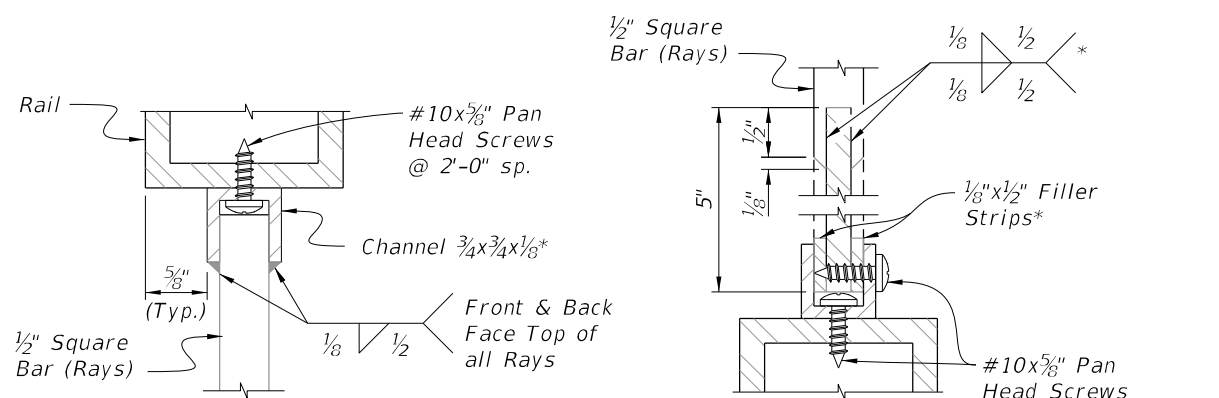


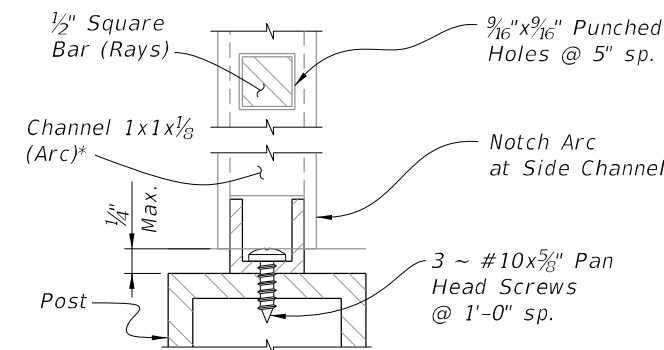
Diagram illustrating a vertical assembly:

- $\frac{1}{2}$ " Square Bar (Rays)
- $\frac{9}{16}$ " x $\frac{9}{16}$ " Punched Holes @ 5" sp.
- Channel 1x1x $\frac{1}{8}$ " (Arc)*

DETAIL "3C"



DETAIL "3B"
BOTTOM RAIL/RAY CONNECTION



Punched 5" sp.

$\frac{1}{2}$ " Square Bar (Rays)

Channel 1x1x $\frac{1}{8}$ (Arc)*

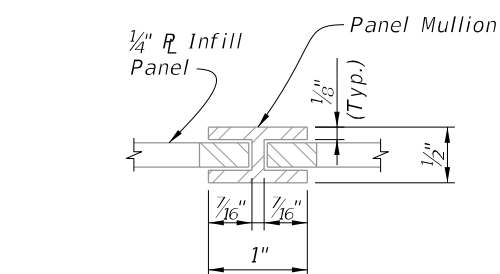
Rays Similar

$\frac{1}{8}$ $\frac{1}{2}$

Expansion Joint Opening

Post

DETAIL "3E"
PANEL END CONNECTION
AT POST WITH EXPANSION JOINT



Inside Face of Rail

Channel $\frac{3}{4} \times \frac{3}{4} \times \frac{1}{8}$

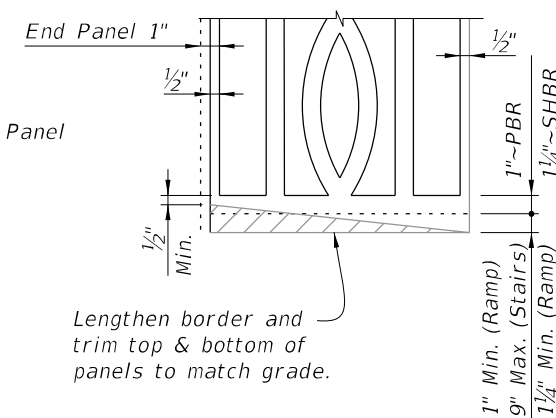
$\frac{5}{8}$ " (Typ.)

#10 $\times \frac{5}{8}$ " Pan Head Screws @ 2'-0" sp.

$\frac{1}{4} \times \frac{1}{2}$ Filler Strip

$\frac{1}{4}$ " R Infill Panel

DETAIL "4A"
PANEL/RAIL CONNECTION
(Top Shown, Bottom Similar)



Gap Varies
4" Max.

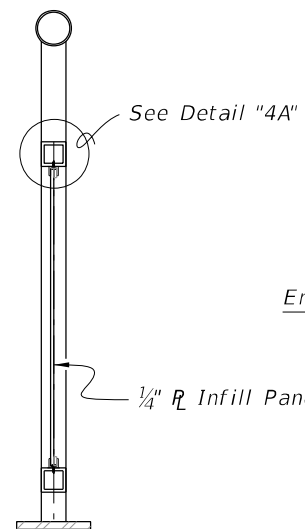
3 ~ #10x $\frac{5}{8}$ "
Pan Head Screws
@ 1'-0" sp.

$\frac{1}{4}$ " x $\frac{1}{2}$ " Filler
Strip

$\frac{1}{4}$ " R Infill
Panel

Post

SECTION B-B
PANEL END CAP

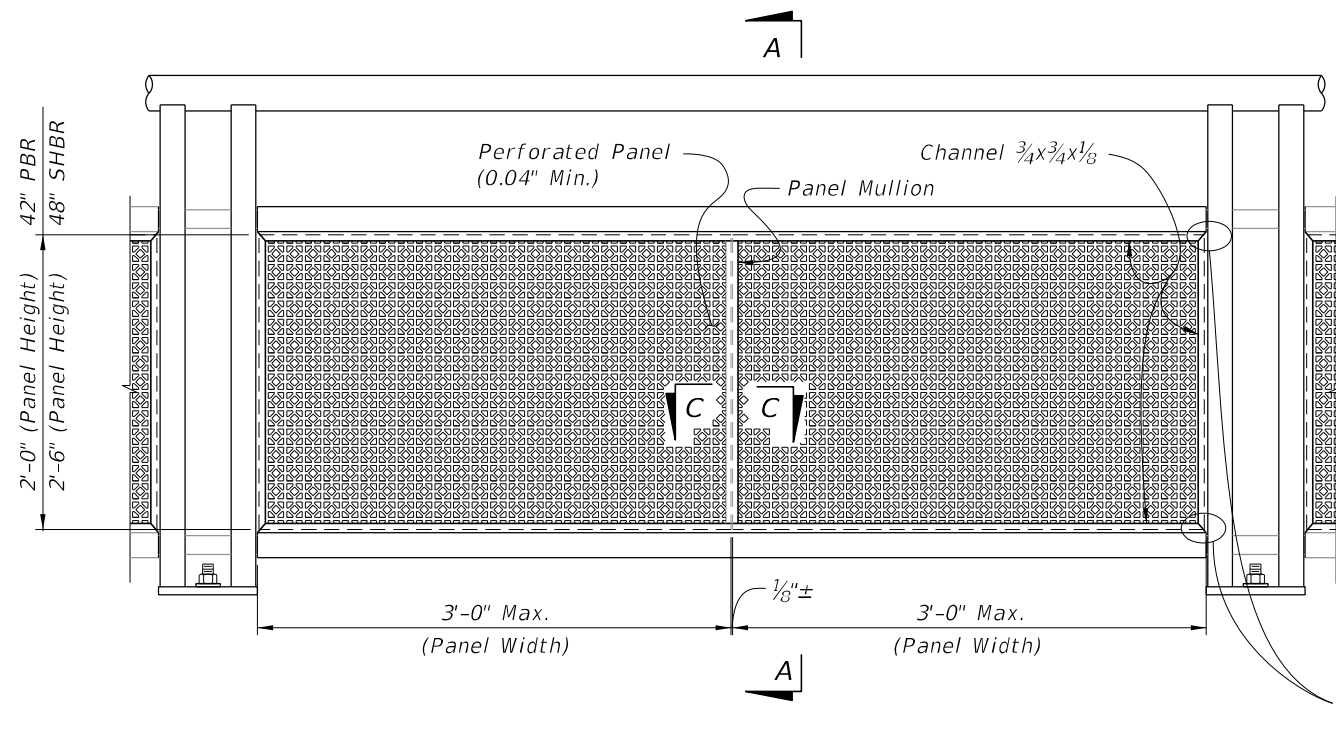


SECTION A-A

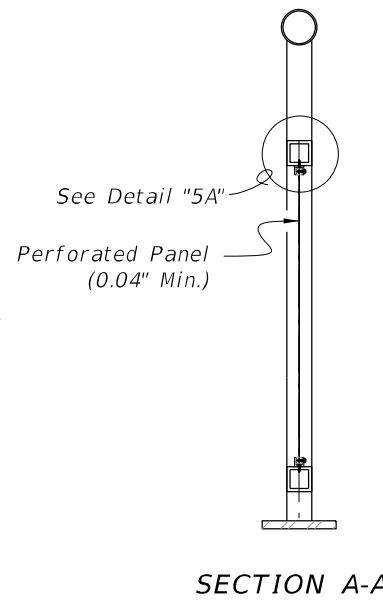
TYPE 4 - BROADWAY INFILL PANEL

LAST REVISION 11/01/16	REVISION	DESCRIPTION:	 FY 2024-25 STANDARD PLANS	PEDESTRIAN/BICYCLE RAILING (ALUMINUM)	INDEX 515-062	SHEET 7 of 9
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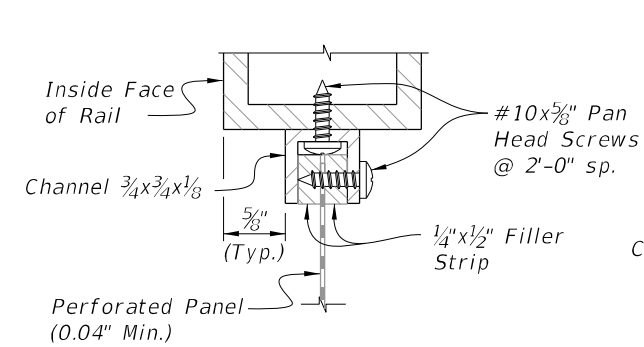
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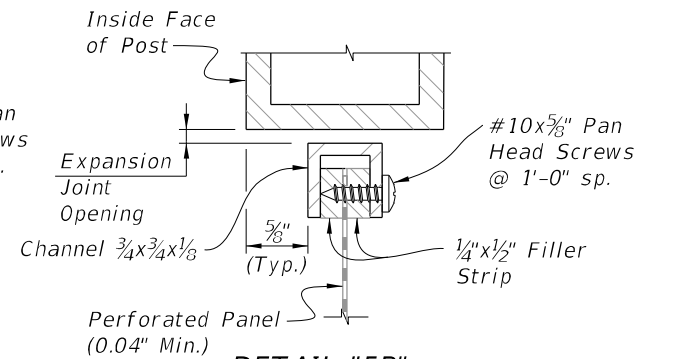
TYPE 5 - PERFORATED INFILL PANEL



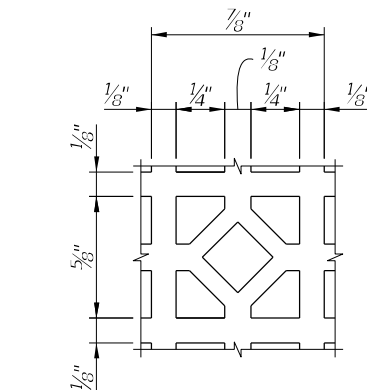
SECTION A-A



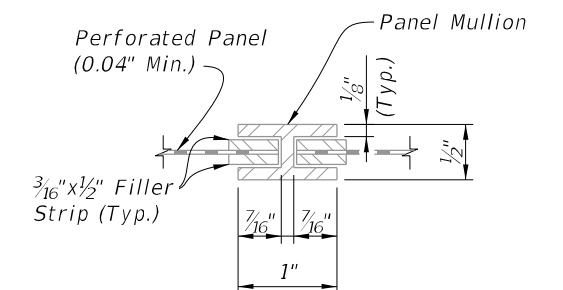
DETAIL "5A"
PANEL/RAIL CONNECTION
(Top Shown, Bottom Similar)



DETAIL "5B"
PANEL END CONNECTION
(Expansion Joint Shown, Sides Similar)



REPEATING PATTERN DETAIL
FOR PERFORATED PANEL



SECTION C-C
PANEL/SPLICE CONNECTION

LAST
REVISION
11/01/16

REVISION

DESCRIPTION:

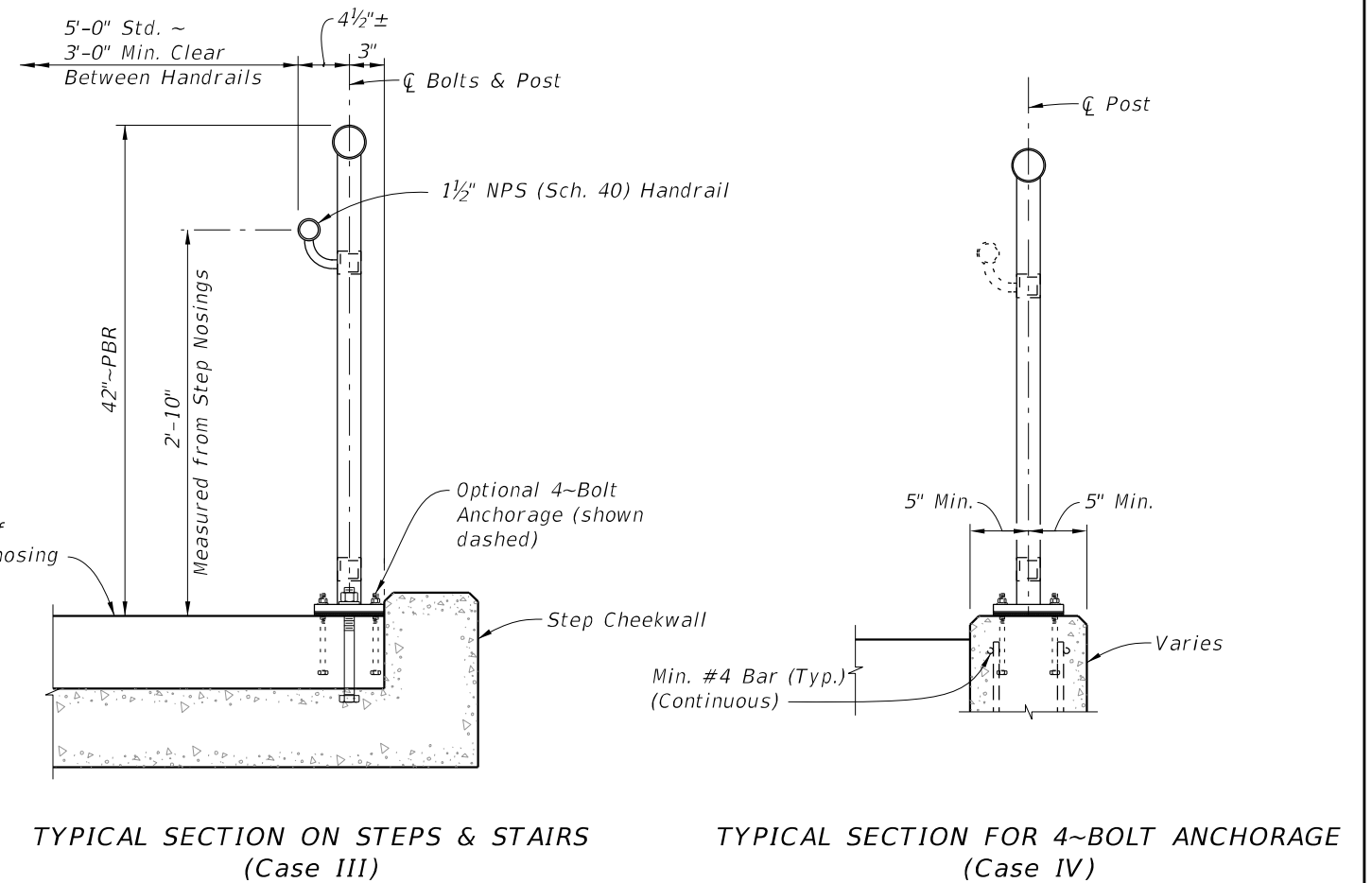
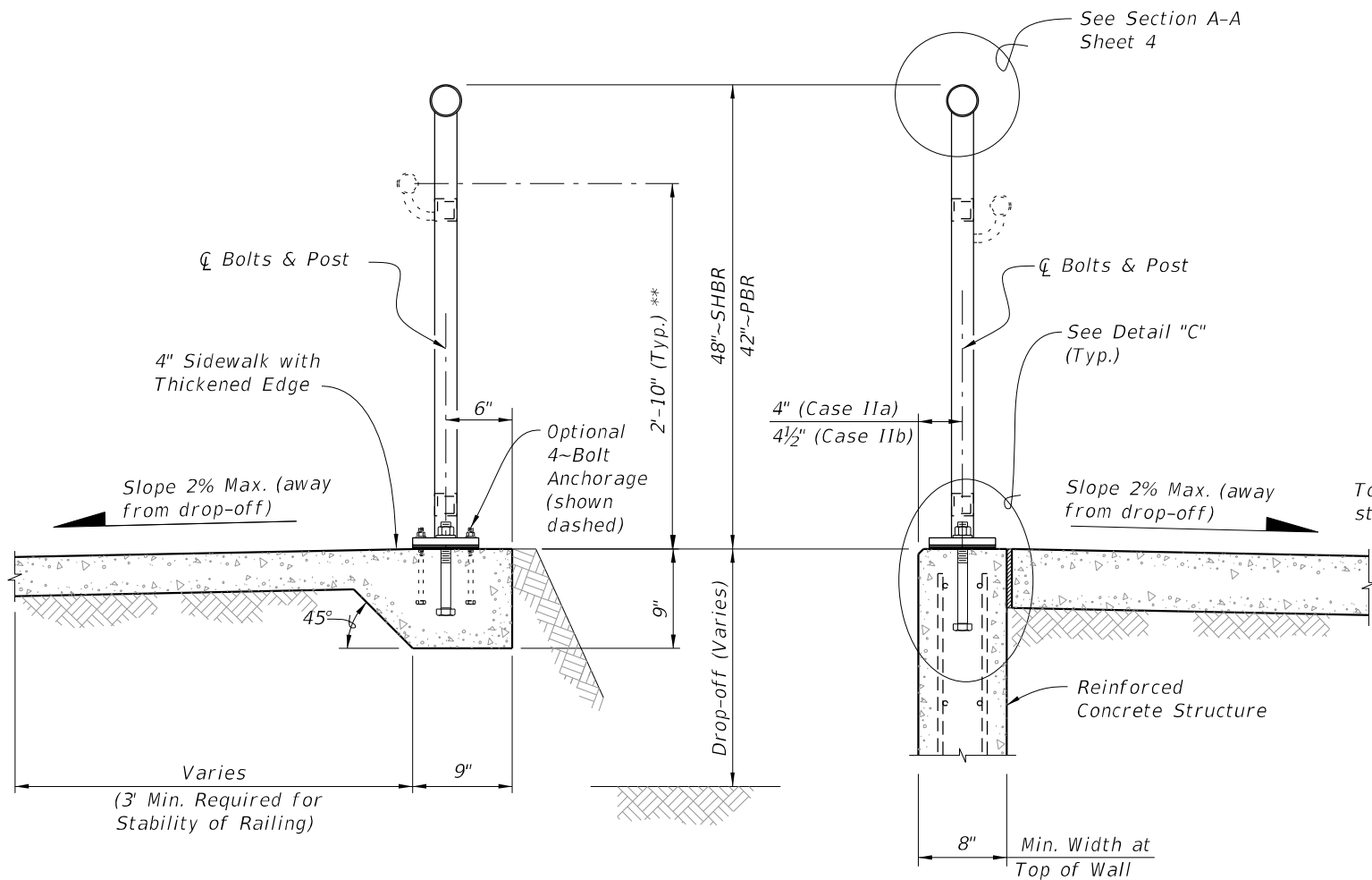


FY 2024-25
STANDARD PLANS

PEDESTRIAN/BICYCLE RAILING (ALUMINUM)

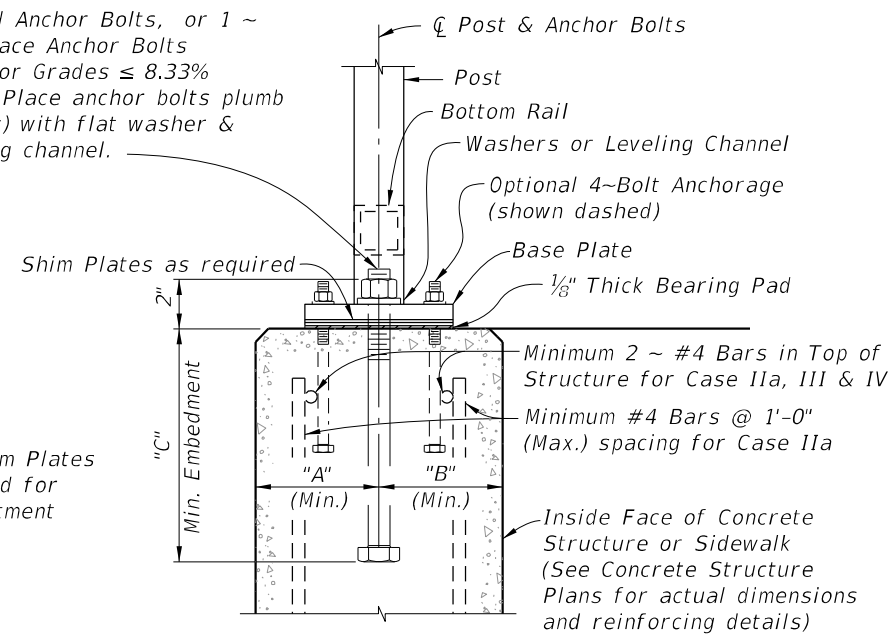
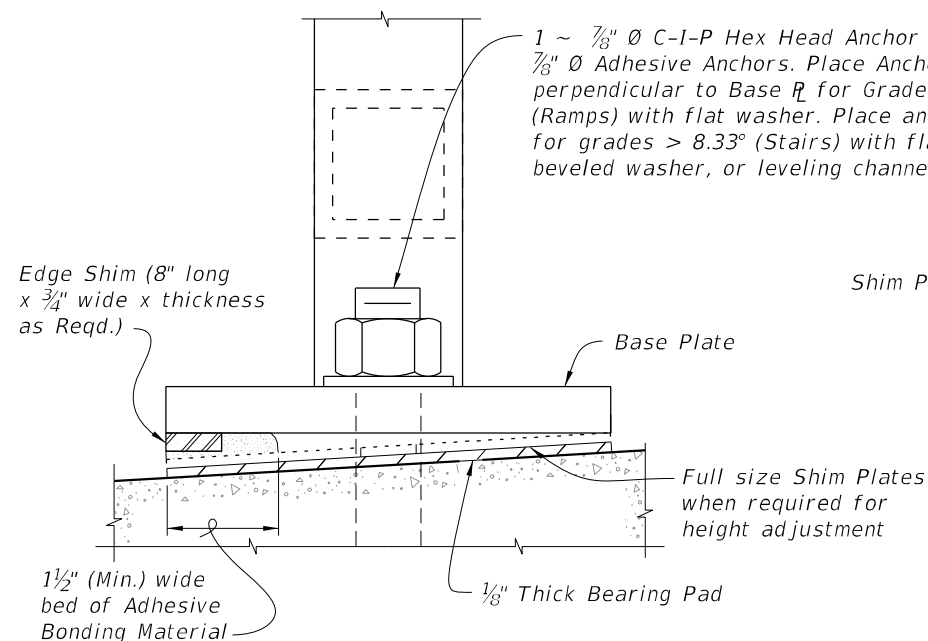
INDEX
515-062

SHEET
8 of 9



TYPICAL SECTION ON CONCRETE SIDEWALK (Case I)

TYPICAL SECTION ON RETAINING WALL (Case II)



ANCHOR BOLT TABLE							
CASE	STRUCTURE TYPE	DIMENSIONS			ANCHOR LENGTH		ANCHOR SIZE
		"A" Edge Dist.	"B" Edge Dist.	"C" Embedment	C.I.P. Hex Head Bolt	Adhesive Anchor	
I	Unreinforced Concrete	6"	1'-2"	6"	7 1/2"	8"	7/8" Ø
IIa	Reinforced Concrete	4"	4"	9"	10 1/2"	11"	7/8" Ø
IIb	Gravity Wall Index 400-011	4 1/2"	3 1/2" @ top	9"	10 1/2"	11"	7/8" Ø
III	Step Cheekwall	4 1/2"	4 1/2"	9"	10 1/2"	11"	7/8" Ø
IV	Varies	5"	5"	5"	6 1/2"	7"	7/16" Ø

** When required; measured from top of sidewalk (Typ.)

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