COMPONENTS OF CONTRACT PLANS SET

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
SIGNALIZATION PLANS

A DETAILED INDEX APPEARS ON THE KEY SHEET OF EACH COMPONENT

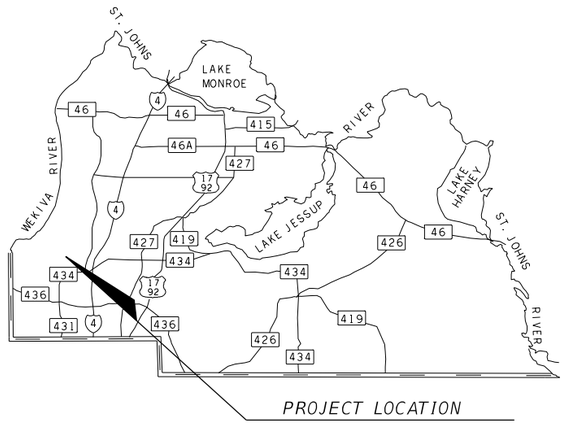
INDEX OF ROADWAY PLANS

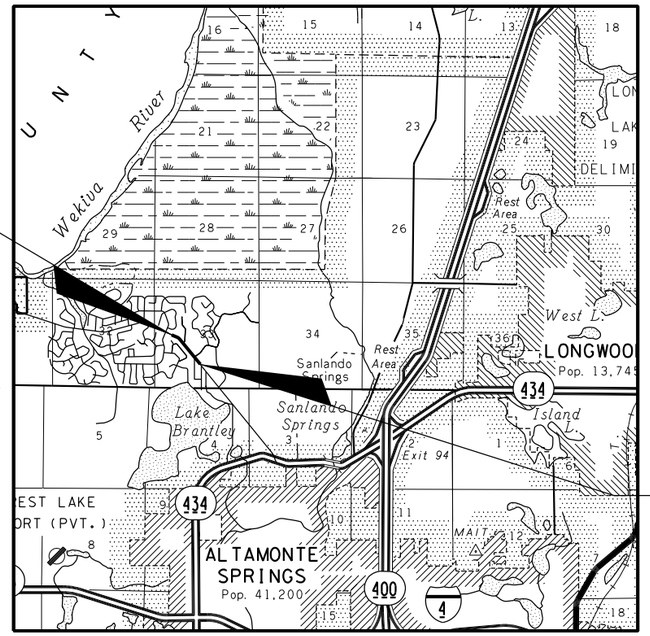
SEMINOLE COUNTY ENGINEERING DIVISION

CONTRACT PLANS

SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE

WEKIVA SPRINGS ROAD INTERSECTION IMPROVEMENTS SEMINOLE COUNTY CIP No. 02007027 DISTRICT 3



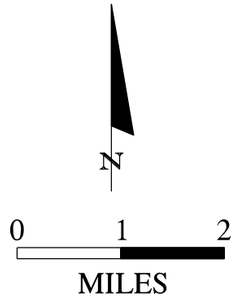


BEGIN PROJECT
BEGIN CONSTRUCTION
STA. 215+06.55

T 20 S
T 21 S

END PROJECT
END CONSTRUCTION
STA. 245+44.43

R 29 E
R 30 E



SEMINOLE COUNTY ENGINEERING
PROJECT MANAGER: ANGELA CARDONA, P.E.
100 EAST FIRST STREET
SANFORD, FLORIDA 32771
407-665-5661

ROADWAY SHOP DRAWINGS TO BE SUBMITTED TO:

FURSAN S. MUNJED, P.E.
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
PHONE 407-992-9160, X-302

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

90% SUBMITTAL
MARCH 29, 2022

GOVERNING DESIGN STANDARDS:

Florida Department of Transportation, FY2021-22 Design Standards eBook (DSeB) and applicable Design Standards Revisions (DSRs) at the following website: http://www.fdot.gov/design/Standardplans/

GOVERNING STANDARD SPECIFICATIONS:

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

BOARD OF COUNTY COMMISSIONERS

BOB DALLARI	DISTRICT 1
JAY ZEMBOWER	DISTRICT 2
LEE CONSTANTINE	**DISTRICT 3**
AMY LOCKHART	DISTRICT 4
ANDRIA HERR	DISTRICT 5

JOE ABEL, INTERIM COUNTY MANAGER

LENGTH OF PROJECT

	LINEAR FEET	MILES
ROADWAY	3037.88	0.575
BRIDGES	0.00	0.000
NET LENGTH OF PROJECT	3037.88	0.575
EXCEPTIONS	0.00	0.000
GROSS LENGTH OF PROJECT	3037.88	0.575

PUBLIC WORKS DIRECTOR: JEAN JREIJ, P.E.

ROADWAY PLANS ENGINEER OF RECORD: FURSAN S. MUNJED, P.E.

P.E. NO.: 51446

FISCAL YEAR	SHEET NO.
21	1

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SUMMARY OF PAY ITEMS

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY TOTAL	
			PLANS	FINAL
101-1	MOBILIZATION	LS	1	
102-1	MAINTENANCE OF TRAFFIC	LS	1	
102-99	PORTABLE CHANGEABLE MESSAGE SIGN (TEMP.)	ED	1,448	
104-14	PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION	LS	1	
110-1-1	CLEARING AND GRUBBING	LS	1	
110-4-10	REMOVAL OF EXISTING CONCRETE	SY	1,996	
120-1	REGULAR EXCAVATION	CY	1,879	
120-4	SUBSOIL EXCAVATION	CY	406	
120-6	EMBANKMENT	CY	599	
160-4	TYPE B STABILIZATION, 12" MINIMUM, LBR 40	SY	3,083	
285-706	BASE GROUP 6, TYPE B-12.5 ONLY	SY	249	
285-713	BASE GROUP 13, TYPE B-12.5 ONLY, (8")	SY	2,647	
327-70-6	MILLING EXISTING ASPHALT PAVEMENT (1.5" AVG. DEPTH)	SY	12,261	
334-1-13	SUPERPAVE ASPHALTIC CONCRETE, TRAFFIC C	TN	418.5	
337-7-83	ASPHALTIC CONCRETE FRICTION COURSE, TRAFFIC C, FC-12.5, PG 76-22	TN	1,206.2	
400-0-11	CONCRETE CLASS NS, GRAVITY WALL INDEX 400-011	CY	174	
400-1-15	CONCRETE CLASS I (MISCELLANEOUS)	CY	5	
425-1-311	INLET (CURB TYPE P-1) (<10')	EA	4	
425-1-321	INLET (CURB TYPE P-2) (<10')	EA	2	
425-1-351	INLET (CURB TYPE P-5) (<10')	EA	1	
425-1-521	INLET, DITCH BOTTOM, TYPE C, <10'	EA	1	
425-1-541	INLET, DITCH BOTTOM, TYPE D, <10'	EA	1	
425-1-551	INLET, DITCH BOTTOM, TYPE E, <10'	EA	1	
425-2-71	MANHOLES, J-7, <10'	EA	2	
425-11	MODIFY EXISTING DRAINAGE STRUCTURE	EA	7	
430-175-118	PIPE CULVERT, ROUND, 18" S/CD, RCP, CLASS III	LF	378	
430-175-218	PIPE CULVERT, ELIP/ARCH, 14"x23" S/CD, RCP, CLASS III	LF	40	
430-982-125	MITERED END SECTION, CLASS III, 18" SD	EA	1	
515-2-311	PEDESTRIAN/BICYCLE RAILING, ALUMINUM ONLY, 42" TYPE 1	LF	251	
520-1-7	CONCRETE CURB AND GUTTER (TYPE E)	LF	136	
520-1-10	CONCRETE CURB AND GUTTER (TYPE F)	LF	1,847	
520-2-4	CONCRETE CURB TYPE D	LF	211	
520-3	VALLEY GUTTER - CONCRETE	LF	367	
520-5-11	CONCRETE TRAFFIC SEPARATOR, TYPE 1, OPTION II	LF	672	
522-1	CONCRETE SIDEWALK, 4" THICK	SY	668	
522-2	CONCRETE SIDEWALK, 6" THICK	SY	396	
527-2	DETECTABLE WARNINGS	SF	202	
530-3-4	RUBBLE RIPRAP, DITCH LINING	TN	2	
570-1-2	PERFORMANCE TURF, SOD	SY	3,466	
999-1	CONCRETE FLUME	EA	3	

PAY ITEM NOTES

102-1 INCLUDES THE COST OF ALL ITEMS NECESSARY FOR TRAFFIC CONTROL NOT SPECIFICALLY INCLUDED IN THE SUMMARY OF PAY ITEMS (INCLUDING SIGNS, BARRICADES, FLAGMAN, ETC.) IN ACCORDANCE WITH FDOT DESIGN STANDARDS PLANS INDEX 102-600 SERIES, MUTCD, AND FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITIONS. INCLUDES THE COST TO FURNISH AND INSTALL ALL TEMPORARY STRIPING AND DETOUR FACILITIES. THE CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS TO RESIDENCES AND BUSINESSES AT ALL TIMES. INCLUDES THE COST FOR OFF-DUTY POLICE OFFICER AS NEEDED.

INCLUDES THE COST OF 246 SY OF TEMPORARY PAVEMENT.

102-99 INCLUDES THE COST FOR VARIABLE MESSAGE SIGNS TO BE SET UP SEVEN DAYS IN ADVANCE OF THE BEGINNING OF CONSTRUCTION AND DURING VARIOUS PHASES OF CONSTRUCTION. CONTRACTOR TO COORDINATE LOCATIONS AND MESSAGES WITH THE PROJECT MANAGER. THE CONTRACTOR SHALL NOTIFY RESIDENTS AND BUSINESSES ALONG THE PROJECT LIMITS TWO WEEKS PRIOR TO START CONSTRUCTION BY FLYER, APPROVED BY THE SEMINOLE COUNTY PROJECT MANAGER.

104-14 THIS PAY ITEM INCLUDES THE COST OF ALL ITEMS REQUIRED FOR EROSION AND TURBIDITY CONTROL INCLUDING, BUT NOT LIMITED TO, TURBIDITY BARRIERS, SILT FENCE, TEMPORARY AND PERMANENT EROSION CONTROL MATTING, INLET PROTECTION DEVICES, AND SOIL TRACKING PREVENTION DEVICES AS SHOWN IN THE PLANS OR AS DIRECTED BY THE COUNTY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MEASURES DEEMED NECESSARY FOR THE CONTROL OF EROSION AND WATER POLLUTION AS DESIGNATED BY THE PLANS, THE COUNTY, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (FDEP) AND ST JOHNS RIVER WATER MANAGEMENT DISTRICT (SJRWMD).

110-1-1 INCLUDES THE COST OF REMOVAL AND DISPOSAL OF ALL OBSTRUCTIONS, VEGETATION, DEBRIS, FENCES, EXISTING ASPHALT, TRIMMING OF TREES AND SHRUBS AS NECESSARY, AND ALL OTHER ITEMS IN ORDER TO CONSTRUCT THE PROJECT. INCLUDES THE COST TO RELOCATE EXISTING MAILBOXES, ADJUST THE EXISTING VALVE BOXES AND SEWER TOPS, RELOCATE THE EXISTING IRRIGATION HEADS AND LINES THAT ARE IN CONFLICT WITH THE CONSTRUCTION. CONTRACTOR TO COORDINATE LOCATION OF IRRIGATION SYSTEM WITH THE PROPERTY OWNER AND PROJECT MANAGER. NO TREES ARE TO BE REMOVED WITHOUT APPROVAL FROM THE SEMINOLE COUNTY PROJECT MANAGER.

THE LIMITS OF CLEARING AND GRUBBING SHALL BE AS DIRECTED BY THE PROJECT MANAGER TO PROVIDE FOR CONTINUITY OF CONSTRUCTION OR TO SUIT THE ACTUAL REQUIREMENTS. DISPOSAL SHALL BE OFF SITE, IN AREAS PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL MINIMIZE LIMITS OF CLEARING AND GRUBBING TO THE EXTENT POSSIBLE SO AS TO AVOID DAMAGING EXISTING LANDSCAPING, SOD, IRRIGATION SYSTEMS, ETC.

570-1-2 INCLUDES THE COST AND APPLICATION OF WATER AT A RATE OF 30,000 GAL/ACRE, AND FERTILIZER AT THE RATE OF 400 LBS/ACRE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND TO MAINTAIN THE SODDED AREAS UNTIL FINAL ACCEPTANCE. TYPES OF SOD MAY VARY. CONTRACTOR TO MATCH EXISTING SOD. INCLUDES THE COST OF PEGGING FOR THE ESTABLISHMENT OF PERMANENT SODDING.

INCLUDES PAYMENT FOR SODDING, MOWING, FERTILZING, WATER AND DOLOMITE LIMESTONE. ALL SOD ON SLOPES 1:3 (V:H) AND STEEPER SHALL BE PEGGED. SOD SHALL BE CERTIFIED "SODA APPLE FREE". SUBCONTRACTOR SHALL REMOVE AND REPLACE ANY AREAS INFESTED FOR A PERIOD OF ONE YEAR FROM THE COMPLETION OF THE PROJECT.

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REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUMMARY OF PAY ITEMS

SHEET NO. 2

BEGIN PROJECT
BEGIN CONSTRUCTION
STA. 215+06.55

END PROJECT
END CONSTRUCTION
STA. 245+44.43

EXIST. PROFILE ALONG EXIST. EDGE OF PAVEMENT (LT)

PROPOSED EOP PROFILE (LT)

EXIST. EXFILTRATION 2-36" RCP

14"x23" ERCP
INV. 58.90

EXIST. 18" RCP

INV. 59.31

18" RCP
INV. 59.11

INV. 58.00

18" RCP
EXIST. 24" RCP

INV. 57.85

18" RCP
INV. 57.28

18" RCP
EXIST. 24" RCP

INV. 56.83
INV. 57.03

EXIST. 19"x30" ERCP

14"x23" ERCP
INV. 54.70

EXIST. 19"x30" ERCP

BEGIN LINEAR POND
STA. 228+28.71
EL. 56.75

END LINEAR POND
STA. 230+70.00
INV. 56.75

BP-1
AB-11
BP-2
AB-12
BP-3
BP-4
AB-13

EXIST. 24"x38" ERCP

18" RCP
INV. 56.95

18" RCP
INV. 56.85

EXIST. 14"x23" ERCP

EXIST. 14"x23" ERCP

SCALE
1" = 200' HORIZ.
1" = 10' VERT.

70
60
50
40

214+00 216+00 218+00 220+00 222+00 224+00 226+00 228+00 230+00 232+00 234+00

FOX VALLEY DR.

SABAL PALM DR.

WEKIVA SPRINGS RD.

CUTLER RD

PI STA. 219+11.08

PT STA. 223+43.50

PC STA. 214+62.77

STA. 226+16.38

STA. 230+51.20

1" = 200'

BEGIN PROJECT
BEGIN CONSTRUCTION
B/L CONST. WEKIVA SPRINGS RD.
STATION 215+06.55

END PROJECT
END CONSTRUCTION
B/L CONST. WEKIVA SPRINGS RD.
STATION 245+44.43

TOWNSHIP 20 S
RANGE 29E
SECTION 33

LEGEND

MILLING & RESURFACING

PAVEMENT WIDENING

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
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301 WEST STATE ROAD 434, SUITE 309
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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
DRAINAGE MAP

SHEET NO. 3

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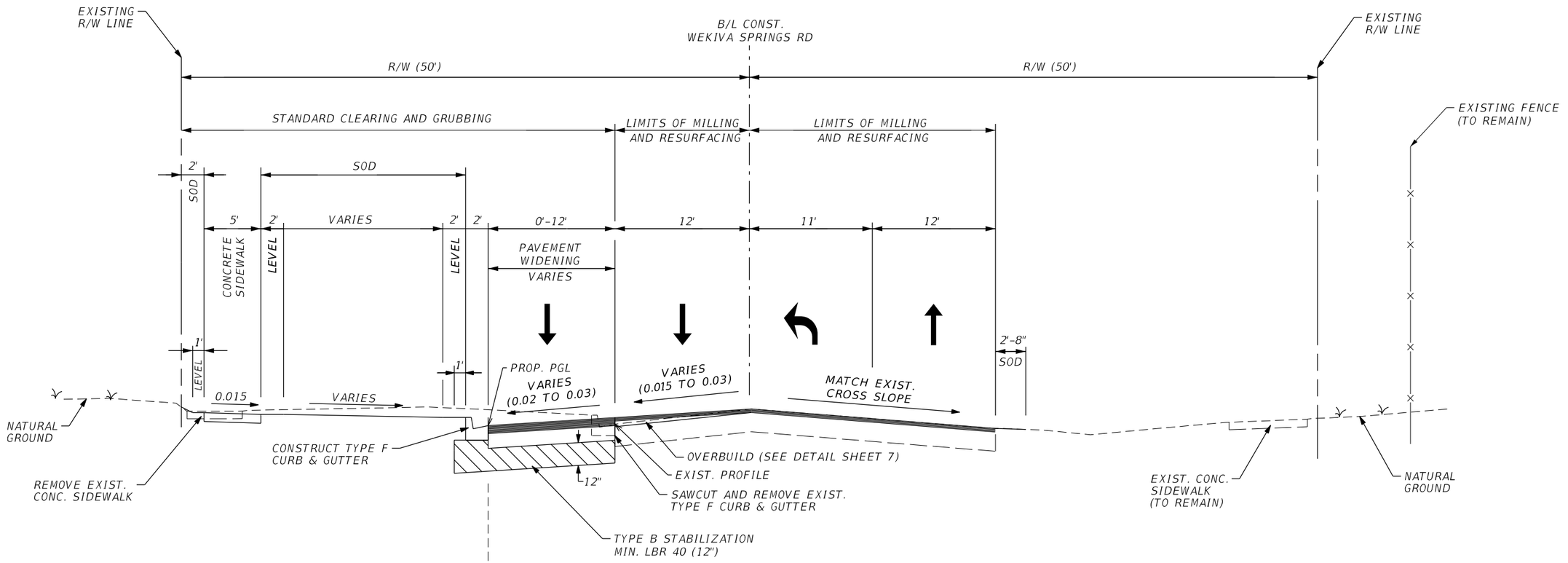

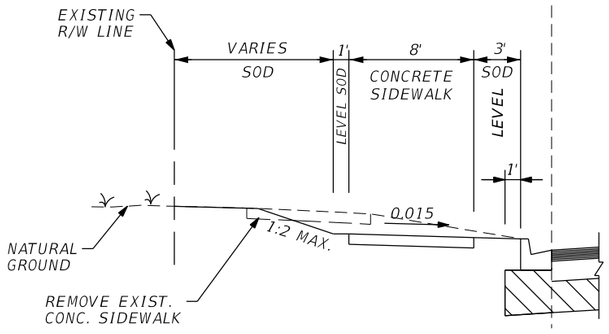

8' WIDE SIDEWALK DETAIL

WEKIVA SPRINGS ROAD
STA. 223+95.20 TO STA. 225+54.96

TRAFFIC DATA

EXISTING YEAR 2020 AADT = 22,900
K=9.0%, D=51.9%, T=5.0% (24 HOUR)
DESIGN SPEED = 35 MPH
POSTED SPEED = 35 MPH

TYPICAL SECTION NO. 1

WEKIVA SPRINGS ROAD
STA. 215+06.55 TO STA. 223+85.07

PAVEMENT WIDENING

BASE GROUP 13 (TYPE B-12.5 ONLY) (8") WITH
TYPE SP-12.5 STRUCTURAL COURSE (2.50") TRAFFIC C
AND FRICTION COURSE FC-12.5 (1.50") TRAFFIC C (PG76-22)

MILLING AND RESURFACING

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH 1.50"
AND RESURFACE WITH FRICTION COURSE FC-12.5 (1.50") TRAFFIC C (PG76-22)

OVERBUILD PAVEMENT

TYPE SP STRUCTURAL COURSE (0" TO 3.68"), TRAFFIC C

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TYPICAL SECTION

SHEET NO. 4

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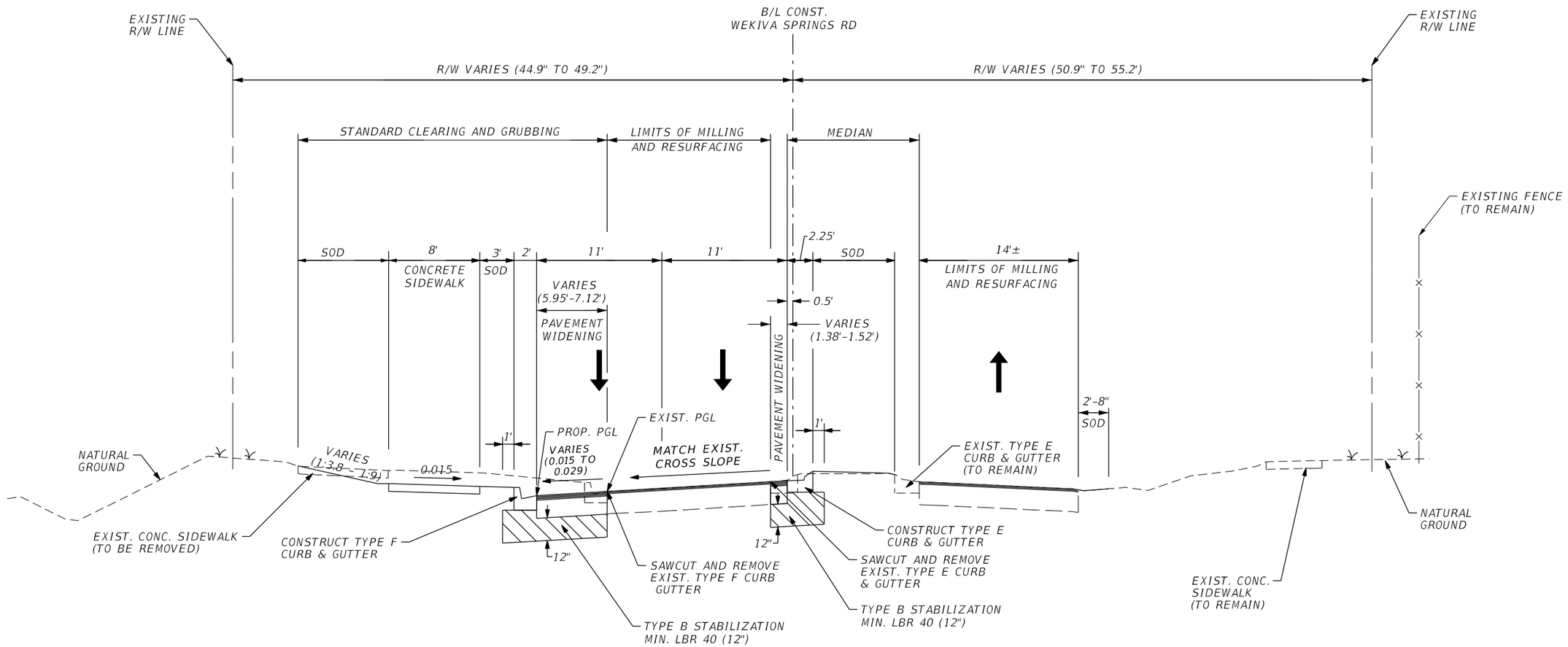

TYPICAL SECTION NO. 2

WEKIVA SPRINGS ROAD
STA. 223+85.07 TO STA. 225+17.41

PAVEMENT WIDENING

BASE GROUP 13 (TYPE B-12.5 ONLY) (8") WITH
TYPE SP-12.5 STRUCTURAL COURSE (2.50") TRAFFIC C
AND FRICTION COURSE FC-12.5 (1.50") TRAFFIC C (PG76-22)

TRAFFIC DATA

EXISTING YEAR 2020 AADT = 22,900
K=9.0%, D=51.9%, T=5.0% (24 HOUR)
DESIGN SPEED = 35 MPH
POSTED SPEED = 35 MPH

MILLING AND RESURFACING

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH 1.50"
AND RESURFACE WITH FRICTION COURSE FC-12.5 (1.50") TRAFFIC C (PG76-22)

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TYPICAL SECTION

SHEET NO. 5

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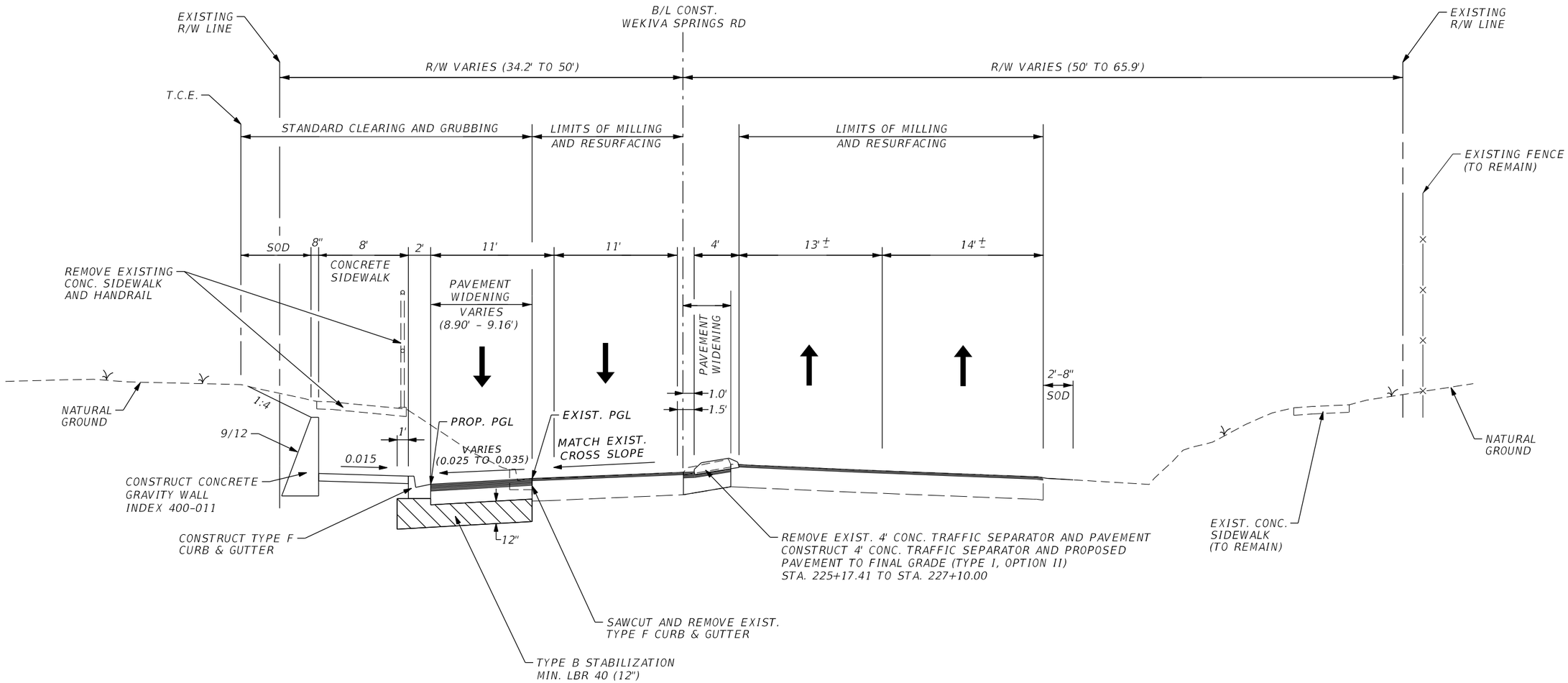


TYPICAL SECTION NO. 3

WEKIVA SPRINGS ROAD
STA. 225+17.41 TO STA. 227+10.00

PAVEMENT WIDENING

BASE GROUP 13 (TYPE B-12.5 ONLY) (8") WITH
TYPE SP-12.5 STRUCTURAL COURSE (2.50") TRAFFIC C
AND FRICTION COURSE FC-12.5 (1.50") TRAFFIC C (PG76-22)

PAVEMENT UNDER TRAFFIC SEPARATOR

BASE GROUP 13 (TYPE B-12.5 ONLY) (8") WITH
TYPE SP-12.5 STRUCTURAL COURSE (2.50") TRAFFIC C

TRAFFIC DATA

EXISTING YEAR 2020 AADT = 22,900
K=9.0%, D=51.9%, T=5.0% (24 HOUR)
DESIGN SPEED = 35 MPH
POSTED SPEED = 35 MPH

MILLING AND RESURFACING

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH 1.50"
AND RESURFACE WITH FRICTION COURSE FC-12.5 (1.50") TRAFFIC C (PG76-22)

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

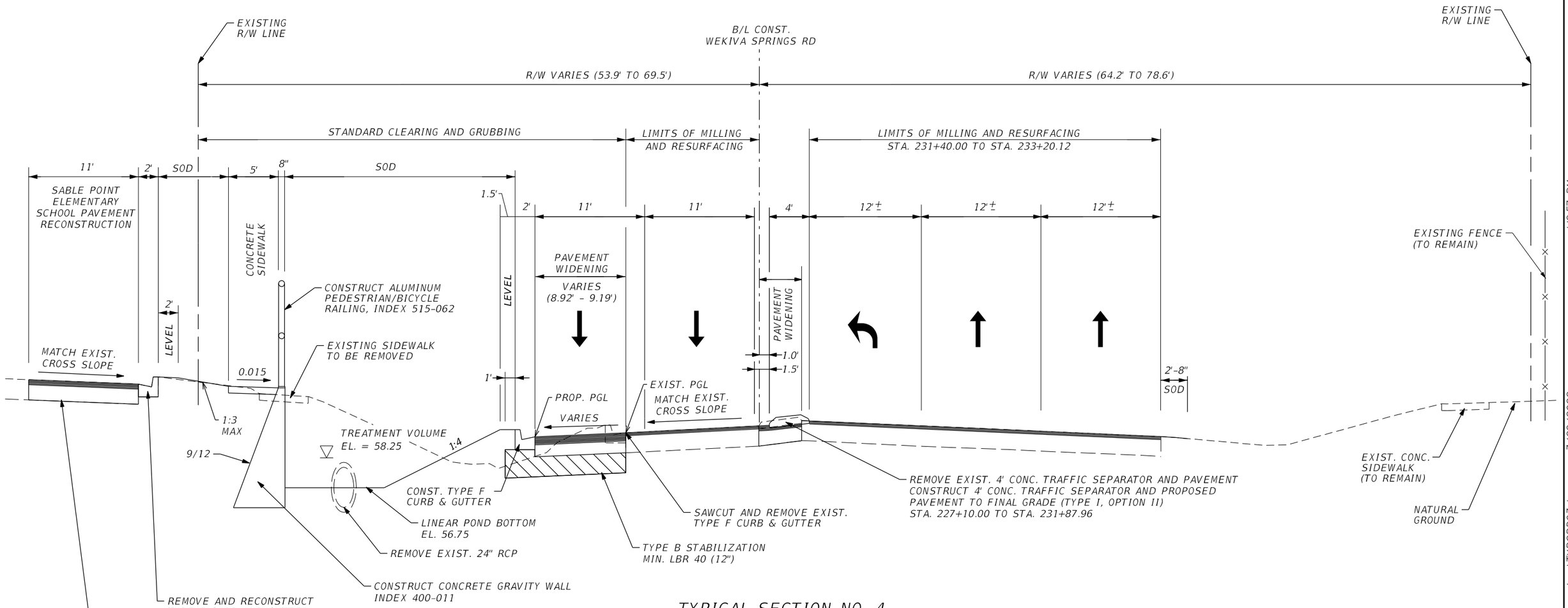
Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TYPICAL SECTION

SHEET NO.
5A



TYPICAL SECTION NO. 4

WEKIVA SPRINGS ROAD
STA. 227+10.00 TO STA. 245+44.43

TRAFFIC DATA

EXISTING YEAR 2020 AADT = 22,900
K=9.0%, D=51.9%, T=5.0% (24 HOUR)
DESIGN SPEED = 35 MPH
POSTED SPEED = 35 MPH

PAVEMENT WIDENING

BASE GROUP 13 (TYPE B-12.5 ONLY) (8") WITH
TYPE SP-12.5 STRUCTURAL COURSE (2.50") TRAFFIC C
AND FRICTION COURSE FC-12.5 (1.50") TRAFFIC C (PG76-22)

MILLING AND RESURFACING

MILL EXISTING ASPHALT PAVEMENT FOR DEPTH 1.50"
AND RESURFACE WITH FRICTION COURSE FC-12.5 (1.50") TRAFFIC C (PG76-22)

PAVEMENT UNDER TRAFFIC SEPARATOR

BASE GROUP 13 (TYPE B-12.5 ONLY) (8") WITH
TYPE SP-12.5 STRUCTURAL COURSE (2.50") TRAFFIC C

PAVEMENT RECONSTRUCTION (SCHOOL ACCESS ROAD)

BASE GROUP 6 (TYPE B-12.5 ONLY) (5") WITH
TYPE SP-12.5 STRUCTURAL COURSE (2.00")

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
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301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

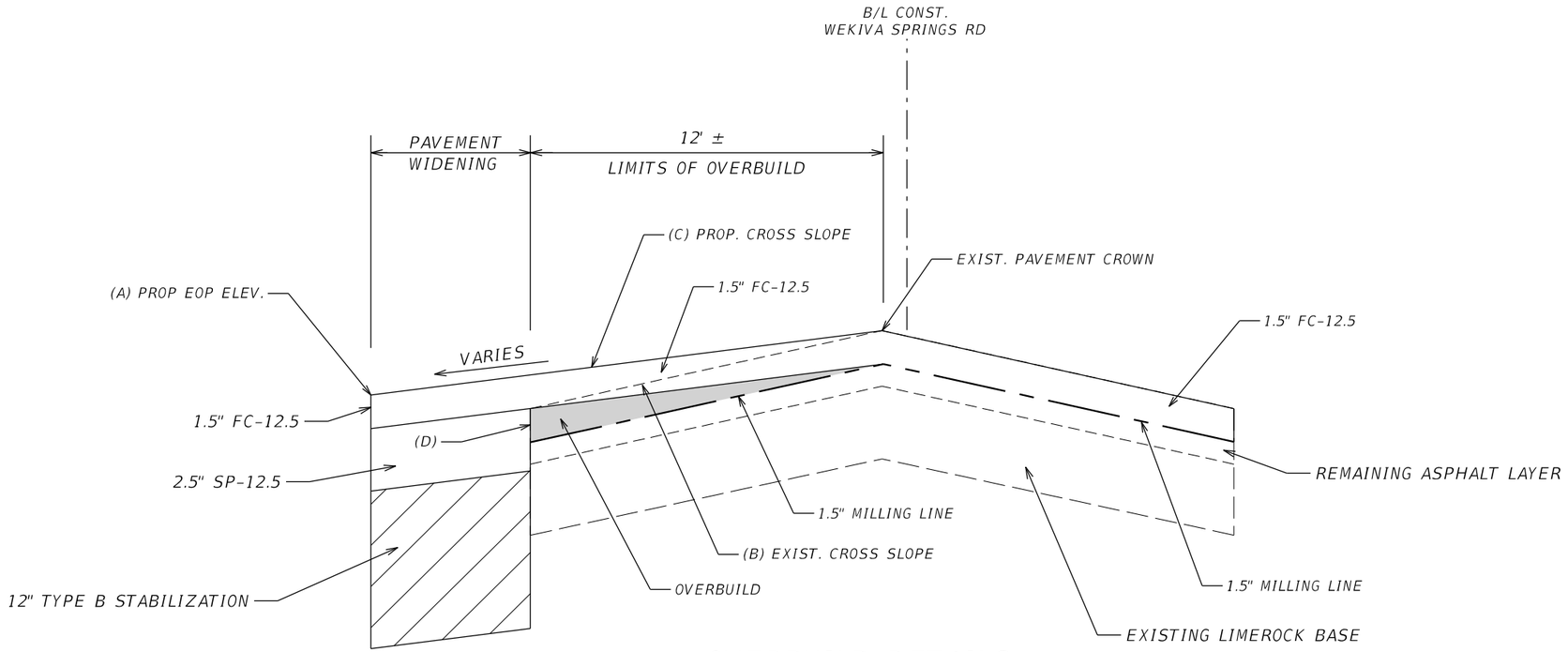
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TYPICAL SECTION

SHEET NO.
6

WEKIVA SPRINGS ROAD STA. 218+50.00 TO STA. 223+00.00	OVERBUILD DETAILS					
	LOCATION		(A) PROP. EOP ELEV.	(B) EXISTING CROSS SLOPE %	(C) PROPOSED CROSS SLOPE %	(D) DEPTH OF OVERBUILD (IN)
	STATION	LANE				
	218+50.00	NORTHBOUND	63.51	(-) 3.02 %	(-) 3.02 %	0.00"
	219+00.00	NORTHBOUND	63.11	(-) 3.92 %	(-) 3.00 %	0.00" to 1.38"
	219+50.00	NORTHBOUND	62.72	(-) 3.59 %	(-) 3.00 %	0.00" to 0.85"
	220+00.00	NORTHBOUND	62.47	(-) 4.01 %	(-) 3.00 %	0.00" to 1.45"
	220+50.00	NORTHBOUND	62.70	(-) 4.17 %	(-) 2.50 %	0.00" to 2.39"
	221+00.00	NORTHBOUND	62.53	(-) 5.34 %	(-) 3.00 %	0.00" to 3.44"
	221+50.00	NORTHBOUND	62.35	(-) 5.43 %	(-) 3.00 %	0.00" to 3.68"
	222+00.00	NORTHBOUND	62.17	(-) 5.02 %	(-) 3.00 %	0.00" to 2.99"
	222+50.00	NORTHBOUND	61.94	(-) 3.20 %	(-) 3.00 %	0.00" to 0.28"
	223+00.00	NORTHBOUND	61.74	(-) 3.10 %	(-) 3.10 %	0.00"



OVERBUILD DETAILS

NOT TO SCALE

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
OVERBUILD DETAILS

SHEET NO. 7

SUMMARY OF DRAINAGE STRUCTURES

QTY	STR. NO.	INDEX NO.	STATION	OFFSET	SIDE	DESCRIPTION	BARRELS	STORM SEWER CLASS III		DITCH BOTTOM INLET			CURB INLET			MANHOLE	M.E.S.	MODIFY EXIST. DRAINAGE STRUCTURE	RUBBLE RIP RAP (DITCH LINING)	SOD	REMARKS
								R.C.P	E.R.C.P.	TYPE C	TYPE D	TYPE E	P-1	P-2	P-5	J-7	18"				
								18"	14"x 23"	(<10')	(<10')	(<10')	(<10')	(<10')	(<10')	(<10')	(EA)	(EA)	(TN)	(SY)	
P	S-21	425-001, 425-010, 425-021	216+74.95	25.25'	LT.	EXIST. CURB INLET	2											1			REMOVE EXIST. CURB INLET TOP AND CONST. NEW TYPE 5 CURB INLET TOP
F																					
P	S-1	425-001, 425-010	218+19.91	17.74'	LT.	EXIST. CURB INLET	2											1			REMOVE EXIST. CURB INLET TOP AND CONST. NEW TYPE 7 MH TOP
F																					
P	S-2	425-001, 425-010, 425-020	218+50.00	29.50'	LT.	CURB INLET, PIPE	1	33					1								
F																					
P	S-3	425-001, 425-010	219+95.06	13.18'	LT.	EXIST. CURB INLET	1											1			REMOVE EXIST. CURB INLET TOP AND CONST. NEW TYPE 7 MH TOP
F																					
P	S-4	425-001, 425-010, 425-020	220+00.00	29.50'	LT.	CURB INLET, PIPE	1		17				1								
F																					
P	S-5	425-001, 425-010	221+59.56	13.23'	LT.	EXIST. CURB INLET	1											1			REMOVE EXIST. CURB INLET TOP AND SLAB AND CONST. NEW TYPE 7 MH TOP
F																					
P	S-6	425-001, 425-010, 425-020	221+59.56	29.50'	LT.	CURB INLET, PIPE	1	16					1								
F																					
P	S-7	OMITTED																			
F																					
P	S-8	425-001, 425-010, 425-021	222+83.24	25.25'	LT.	CURB INLET, PIPE	1	118							1						
F																					
P	S-9	425-001, 425-010, 425-020	224+00.00	28.00'	LT.	CURB INLET, PIPE	1	68						1							
F																					
P	S-10	425-001, 425-010, 425-021	224+71.15	28.00'	LT.	CURB INLET, PIPE	1	9					1								
F																					
P	S-11	425-001, 425-010	224+71.20	17.17'	LT.	EXIST. CURB INLET	1											1			REMOVE EXIST. CURB INLET TOP AND CONST. NEW TYPE 7 MH TOP
F																					
P	S-12	425-001, 425-010	227+15.70	13.77'	LT.	MANHOLE	1									1					DOGHOUSE MANHOLE
F																					
P	S-13	425-001, 425-010, 425-020	227+15.70	28.00'	LT.	CURB INLET, PIPE	1		12					1							
F																					
P	S-14	425-001, 425-010	227+45.73	13.38'	LT.	EXIST. CURB INLET	1											1			REMOVE EXIST. CURB INLET TOP AND SLAB AND CONST. NEW TYPE 7 MH TOP
F																					
P	S-15	425-052	228+26.54	37.17'	LT.	D.B.I. , PIPE	1		11			1									
F																					
P	S-16	425-001, 425-010	228+26.97	49.52'	LT.	MANHOLE	1									1					
F																					
P	S-17	430-022	230+75.02	41.14'	LT.	M.E.S.	1										1		2.0	9	1:4
F																					
P	S-18	425-052	231+74.67	67.15'	LT.	DBI, PIPE	1	22		1											
F																					
P	S-19	425-052	231+87.49	48.55'	LT.	DBI, PIPE	1	112			1										
F																					
P	S-20	425-001, 425-010	231+93.15	36.86'	LT.	EXIST. CURB INLET	1											1			REMOVE EXIST. CURB INLET TOP AND SLAB AND CONST. NEW TYPE 7 MH TOP
F																					
GRAND TOTAL						PLAN QUANTITY		378	40	1	1	1	4	2	1	2	1	7	2.0	9	
						FINAL QUANTITY															

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 8

(1) CURB INLET
TOP=65.16
SE INV=58.28
SE INV=58.26

(2) DRAINAGE MANHOLE
TOP=66.43
NW INV=58.15
NW INV=58.14
SE INV=58.17
SE INV=58.16

(3) CURB INLET
TOP=65.01
NW INV=58.13
NW INV=58.15
SE INV=58.04
SE INV=58.06

(4) CURB INLET
TOP=63.97
NW INV=57.81
NW INV=57.78
SW INV=59.11

(5) CURB INLET
TOP=63.88
NE INV=60.09

(6) CURB INLET
TOP=62.76
SE INV=58.90
SW INV=59.37

(7) CURB INLET
TOP=62.80
NE INV=59.47

(8) CURB INLET
TOP=62.41
NW INV=57.94
SE INV=58.00

(9) CURB INLET
TOP=61.76
NW INV=56.81
SE INV=56.83

(10) MITERED END SECTION
INVERT=60.08

(11) DRAINAGE MANHOLE
TOP=62.11
BOX CULVERT
INV=55.87
NW INV=60.90

(12) FLAT GRATE INLET
TOP=61.97
BOX CULVERT
INV=55.73

(13) FLAT GRATE INLET
TOP=60.40
24" BOX CULVERT
INV=55.40

(14) DRAINAGE MANHOLE
TOP=60.52
24" BOX CULVERT
INV=55.37
SE ELBOW ELEV=59.16

(15) MITERED END SECTION
INVERT=58.41

(16) FLAT GRATE INLET
OVERFLOW STRUCTURE
TOP=60.41
E INV=58.46

(17) DRAINAGE MANHOLE
TOP=63.25
W INV=57.72
S INV=54.71

(18) DRAINAGE MANHOLE
TOP=63.02
N INV=54.89
SE INV=54.95
S INV=54.82

(19) CURB INLET
TOP=58.96
N INV=RECESSED
SE INV=54.85
SW INV=55.07
NW INV=RECESSED

(20) DRAINAGE MANHOLE
TOP=58.97
NE INV=54.83
SW INV=55.02

(21) HEADWALL
INVERT=55.57

(22) DRAINAGE MANHOLE
TOP=61.63
NW INV=55.39
E INV=56.21
SE INV=55.33

(23) FLAT GRATE INLET
TOP=61.55
SE INV=56.72
W INV=56.65

(24) DRAINAGE MANHOLE
TOP=59.88
SE INV=55.19
NW INV=55.34

(25) CURB INLET
TOP=60.22
NW INV=55.42
SE INV=56.52
SW INV=54.45

(26) DRAINAGE MANHOLE
TOP=60.23
NW INV=56.21
NE INV=57.10
NE INV=57.14

(27) FLAT GRATE INLET
TOP=59.50
SW INV=57.35
SW INV=57.22

(28) DRAINAGE MANHOLE
TOP=59.52
NE INV=54.33
SE INV=54.42

(29) CURB INLET
TOP=60.05
NW INV=56.93
SE INV=56.99
S INV=56.96

(30) HEADWALL
INVERT=57.22

(31) CURB INLET
TOP=59.65
N INV=57.09

(32) CURB INLET
TOP=59.87
NW INV=54.76
SE INV=55.67
SW INV=54.71

(33) CURB INLET
TOP=58.89
NE INV=54.79
SW INV=54.84

(34) CURB INLET
TOP=58.92
NE INV=55.04

(35) CURB INLET
TOP=60.13
SE INV=56.02
SW INV=56.07

(36) DRAINAGE MANHOLE
TOP=60.22
NE INV=55.87
NW INV=55.81

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
EXISTING DRAINAGE DATA

SHEET NO. 9

S-21

MODIFY EXISTING DRAINAGE STRUCTURE
REMOVE EXISTING CURB INLET TOP AND
CONST. TYPE 5 CURB INLET TOP
STA. 216+74.95 (25.25' LT.)
EOP EL. 64.89
INV. EL. 58.13 BK. (EXISTING 36" RCP)
INV. EL. 58.15 BK. (EXISTING 36" RCP)
INV. EL. 58.04 AH. (EXISTING 36" RCP)
INV. EL. 58.06 AH. (EXISTING 36" RCP)
FIELD VERIFY EXISTING DRAINAGE STRUCTURE
DIMENSIONS PRIOR TO SHOP DRAWINGS
INDEX 425-001, 425-010, 425-021

S-1

MODIFY EXISTING DRAINAGE STRUCTURE
REMOVE EXISTING CURB INLET TOP AND
CONST. MANHOLE (TYPE 7) TOP
CONNECT PROPOSED 18" RCP
STA. 218+19.91 (17.74' LT.)
RIM EL. 63.95 (TO MATCH FINISHED PAVEMENT ELEV.)
INV. EL. 59.11 AH. (PROPOSED 18" RCP)
INV. EL. 57.81 BK. (EXISTING 36" RCP)
INV. EL. 57.78 BK. (EXISTING 36" RCP)
INV. EL. 59.11 RT. (EXISTING 18" RCP)
FIELD VERIFY EXISTING DRAINAGE STRUCTURE
DIMENSIONS PRIOR TO SHOP DRAWINGS
INDEX 425-001, 425-010

S-2

CONST. CURB INLET TYPE P-1 (<10')
STA. 218+50.00 (29.50' LT.)
EOP EL. 63.51
INV. EL 59.31 BK. (18" RCP)
INDEX 425-001, 425-010, 425-020

S-3

MODIFY EXISTING DRAINAGE STRUCTURE
REMOVE EXISTING CURB INLET TOP AND
CONST. MANHOLE (TYPE 7) TOP
CONNECT PROPOSED 14"x23" ERCP
STA. 219+95.06 (13.18' LT.)
RIM EL. 62.80 (TO MATCH FINISHED PAVEMENT ELEV.)
INV. EL. 58.90 LT. (PROPOSED 14"x23" ERCP)
INV. EL. 59.37 RT. (EXISTING 18" RCP)
INV. EL. 58.90 AH. (EXISTING 18" RCP)
FIELD VERIFY EXISTING DRAINAGE STRUCTURE
DIMENSIONS PRIOR TO SHOP DRAWINGS
INDEX 425-001, 425-010

S-4

CONST. CURB INLET TYPE P-1 (<10')
STA. 220+00.00 (29.50' LT.)
EOP EL. 62.47
INV. EL 59.00 RT. (14"x23" ERCP)
INDEX 425-001, 425-010, 425-020

S-5

MODIFY EXISTING DRAINAGE STRUCTURE
REMOVE EXISTING CURB INLET TOP & SLAB AND
REPLACE WITH MANHOLE (TYPE 7) TOP & SLAB
CONNECT PROPOSED 18" RCP
STA. 221+59.56 (13.23' LT.)
RIM EL. 62.64
INV. EL. 58.00 LT. (PROPOSED 18" RCP)
INV. EL. 57.94 BK. (EXISTING 18" RCP)
INV. EL. 58.00 AH. (EXISTING 24" RCP)
FIELD VERIFY EXISTING DRAINAGE STRUCTURE
DIMENSIONS PRIOR TO SHOP DRAWINGS
INDEX NO. 425-001, 425-010

S-6

CONST. CURB INLET TYPE P-1 (<10')
STA. 221+59.56 (29.50' LT.)
EOP EL. 62.32
INV. EL 58.21 RT. (18" RCP)
INDEX NO. 425-001, 425-010, 425-020

S-7

OMITTED

S-8

CONST. CURB INLET TYPE P-5 (<10')
STA. 222+83.24 (25.25' LT.)
EOP EL. 61.81
INV. EL 57.85 AH. (18" RCP)
INDEX NO. 425-001, 425-010, 425-021

S-9

CONST. CURB INLET TYPE P-2 (<10')
STA. 224+00 (28.00' LT.)
EOP EL. 61.52
INV. EL 57.28 BK. & AH. (18" RCP)
INDEX NO. 425-001, 425-010, 425-020

S-10

CONST. CURB INLET TYPE P-1 (<10')
STA. 224+71.15 (28.00' LT.)
EOP EL. 61.45
INV. EL 57.03 BK. (18" RCP)
INV. EL 57.03 RT. (18" RCP)
INDEX NO. 425-001, 425-010, 425-020

S-11

MODIFY EXISTING DRAINAGE STRUCTURE
REMOVE EXISTING CURB INLET TOP AND
CONST. MANHOLE (TYPE 7) TOP
STA. 224+71.20 (17.17' LT.)
RIM EL. 61.69 (TO MATCH FINISHED PAVEMENT ELEV.)
INV. EL. 56.83 LT. (PROPOSED 18" RCP)
INV. EL. 56.81 BK. (EXISTING 24" RCP)
INV. EL. 56.83 AH. (EXISTING 19"X30" ERCP)
FIELD VERIFY EXISTING DRAINAGE STRUCTURE
DIMENSIONS PRIOR TO SHOP DRAWINGS
INDEX NO. 425-001, 425-010

S-12

CONST. MANHOLE TYPE J-7 (<10') (DOGHOUSE)
STA. 227+ 15.70 (13.77' LT.)
RIM EL. 58.82 (TO MATCH FINISHED PAVEMENT ELEV.)
INV. EL. 54.70 LT. (PROPOSED 14"X23" ERCP)*
INV. EL. 55.20 BK. & AH. (EXISTING 19"X30" ERCP)
FIELD VERIFY EXIST. PIPE INVERTS
INDEX NO. 425-001, 425-010

S-13

CONST. CURB INLET TYPE P-2 (<10')
STA. 227+15.70 (28.00' LT.)
EOP EL. 58.51
INV. EL 54.80 RT. (14"X23" ERCP)*
INDEX NO. 425-001, 425-010, 425-020

S-14

MODIFY EXISTING DRAINAGE STRUCTURE
REMOVE EXISTING CURB INLET TOP & SLAB AND
CONST. MANHOLE (TYPE 7) TOP (TO MATCH FINISHED
PAVEMENT ELEV.)
STA. 227+45.73 (13.38' LT.)
RIM EL. 58.89
FIELD VERIFY EXISTING DRAINAGE STRUCTURE
DIMENSIONS PRIOR TO SHOP DRAWINGS
INDEX NO. 425-001, 425-010

*ADJUST FLOWLINE ELEVATIONS UP AS MUCH AS POSSIBLE DURING CONSTRUCTION TO MINIMIZE THE SUMP CONDITION.

S-15

CONST. DITCH BOTTOM INLET TYPE E (<10')
STA. 228+26.54 (37.17' LT.)
GRATE EL. 58.25
INV. EL 55.50 LT. (14"X23" ERCP)
INDEX NO. 425-052

S-16

CONST. MANHOLE TYPE J-7 (<10')
STA. 228+26.97 (49.52' LT.)
RIM EL. 61.75 (TO MATCH FINISHED GRADE)
INV. EL. 55.35 RT. (PROPOSED 14"X23" ERCP)
INV. EL. 55.35 BK. (EXISTING 24" RCP)
EXISTING 24" RCP AHEAD TO BE REMOVED
FIELD VERIFY EXIST. PIPE INVERTS
INDEX NO. 425-001, 425-010

S-17

CONST. MES (SD) (18") (1:4)
STA. 230+75.02 (41.14' LT.)
INV. EL. 56.75 (18" RCP)
INDEX NO. 430-022

S-18

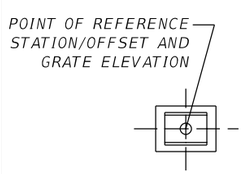
REMOVE EXISTING DRAINAGE STRUCTURE
CONST. DITCH BOTTOM INLET, TYPE C (<10')
STA. 231+74.67 (67.15' LT.)
GRATE EL. 59.50
INV. EL. 56.95 RT. (18" RCP)
INDEX NO. 425-052

S-19

CONST. DITCH BOTTOM INLET TYPE D (<10')
STA. 231+87.49 (48.55' LT.)
GRATE EL. 59.10
INV. EL. 56.85 BK. (18" RCP)
INV. EL. 56.85 LT. (18" RCP)
INDEX NO. 425-052

S-20

MODIFY EXISTING DRAINAGE STRUCTURE
REMOVE EXISTING INLET TOP & SLAB AND
CONST. MANHOLE (TYPE 7) TOP (TO MATCH FINISHED
PAVEMENT ELEVATION)
STA. 231+93.15 (36.86' LT.)
RIM EL. 59.50
FIELD VERIFY EXISTING DRAINAGE STRUCTURE
DIMENSIONS PRIOR TO SHOP DRAWINGS
INDEX NO. 425-001, 425-010



DITCH BOTTOM INLETS
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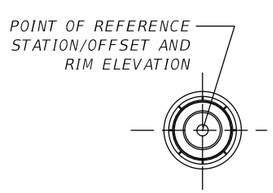
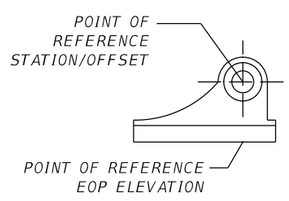
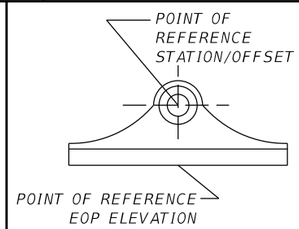


MANHOLES
NOT TO SCALE



CURB INLETS TYPE 1
NOT TO SCALE



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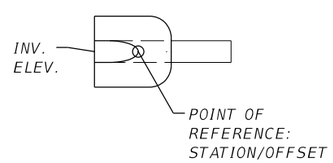
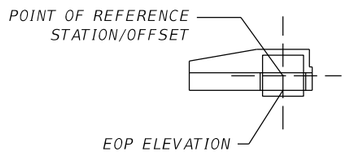


MITERED END SECTION
NOT TO SCALE



CURB INLETS TYPE 5
NOT TO SCALE

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
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CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

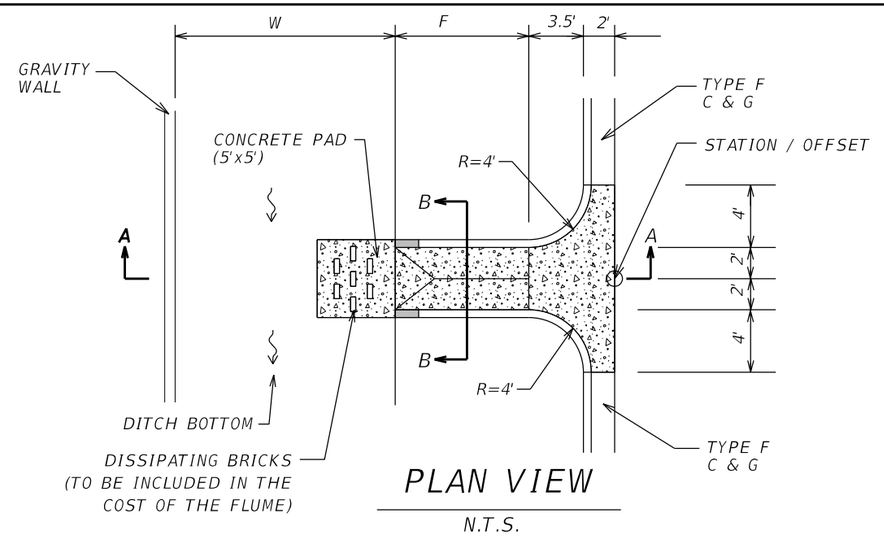
ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
PROPOSED DRAINAGE DATA

SHEET NO.
10

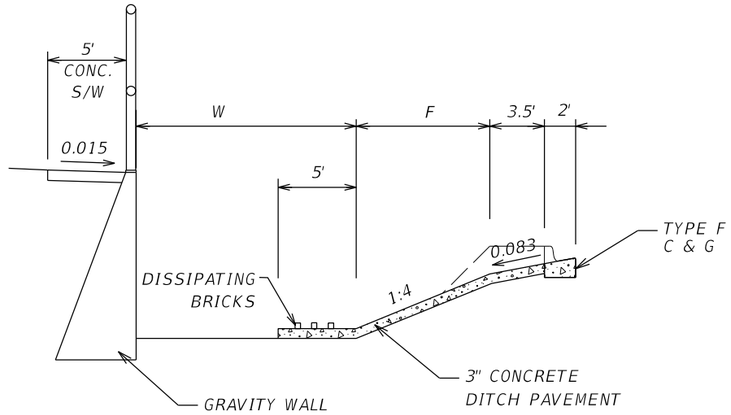
SUMMARY OF CONCRETE FLUMES

FLUME NO.	STATION	OFFSET	SIDE	DIMENSIONS (FEET)			FRONT SLOPE	BACK SLOPE	REMARKS
				F	W	B			
F-1	228+40.25	22.50'	LT	9.18	17.31	-	1:4	-	
F-2	229+40.25	22.50'	LT	11.01	12.40	-	1:4	-	
F-3	230+40.25	22.50'	LT	12.11	8.22	-	1:4	-	



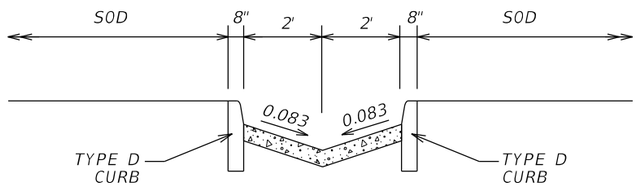
PLAN VIEW

N.T.S.



SECTION A-A

N.T.S.



SECTION B-B

N.T.S.

CONCRETE FLUME DETAILS F-1 TO F-3

NOT TO SCALE

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
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PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUMMARY OF CONCRETE FLUMES

SHEET NO.
11

N:\Projects\SMC20053_Wekiva Springs Road\IIIIII318\drainage\SumCFrd01.dgn 3/29/2022 1:20:00 PM

GENERAL NOTES

1. THE CONTRACTOR IS TO OBTAIN A CONSTRUCTION PERMIT ONE (1) WEEK PRIOR TO CONSTRUCTION FROM SEMINOLE COUNTY PUBLIC WORKS ENGINEERING DIVISION FOR "RIGHT-OF-WAY UTILIZATION". CONTACT PERMIT COORDINATOR AT 100 EAST FIRST STREET, SANFORD, FL 32771. TELEPHONE (407) 665-5719. NO FEE REQUIRED.

2. NPDES CONSTRUCTION PERMIT IS REQUIRED. IT IS THE REPONSIBILITY OF THE CONTRACTOR TO ACQUIRE THE NPDES PERMIT.

3. THE CONTRACTOR IS RESPONSIBLE FOR ALL CONDITIONS OF ALL PERMITS.

4. THE EROSION CONTROL MEASURES PER FDOT DESIGN STANDARDS ARE THE MINIMUM REQUIRED; ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED DUE TO FIELD CONDITIONS AS DETERMINED BY THE SEMINOLE COUNTY ENGINEERING INSPECTOR OR THE REGULATORY AGENCIES.

5. FOR FINISHING AND CURING REQUIREMENTS, SEE FDOT STANDARD SPECIFICATIONS SECTION 522-7 AND SECTION 520-8.1 & 8.3.

6. VERTICAL INFORMATION SHOWN HEREON REFERS TO FDOT BRASS SURVEY DISK STAMPED D5PNC 7705D 013 WITH A PUBLISHED ELEVATION OF 46.050 FEET, NORTH AMERICAN VERTICAL DATUM 1988, NAVD88.

7. ANY NGVD-29 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF ANY DANGER OF DAMAGE THE CONTRACTOR SHALL NOTIFY THE FLORIDA DEPARTMENT OF NATURAL RESOURCES,BUREAU OF SURVEYS AND MAPPING, 3900 COMMONWEALTH BLVD., SUITE 309, TALLAHASSEE, FLORIDA 32399.

8. ANY NAD 83 MONUMENT WITHIN THE LIMITS OF CONSTRUCTION IS TO BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHOULD NOTIFY:
   GEODETIC INFORMATION CENTER
   ATTN: MARK MAINTENANCE SECTION
   N/CG-162
   6001 EXECUTIVE BOULEVARD
   ROCKVILLE, MARYLAND 20852
   TELEPHONE: (301) 443-8319

9. ANY PUBLIC LAND CORNER OR COUNTY MONUMENT 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 THE SEMINOLE COUNTY SURVEYOR IMMEDIATELY AT SEMINOLE COUNTY PUBLIC WORKS AT (407) 665-5656.

10. ALL SURVEY CORNERS INDICATED ON THE PLANS SHALL BE REFERENCED AND CERTIFIED BY A REGISTERED PROFESSIONAL LAND SURVEYOR PRIOR TO COMMENCEMENT OF CONSTRUCTION. ALL CORNERS DESTROYED OR OBLITERATED BY CONSTRUCTION SHALL BE RESET AND SO CERTIFIED BY THE LAND SURVEYOR PRIOR TO COMPLETION OF THE PROJECT. CERTIFIED SKETCHES SHALL BE SUBMITTED TO: SEMINOLE COUNTY PUBLIC WORKS DEPARTMENT, ENGINEERING DIVISION SURVEY SECTION, 520 LAKE MARY BLVD. SUITE 200, SANFORD, FL. 32773.

11. CONTRACTOR SHALL HORIZONTALLY AND VERTICALLY VERIFY ALL UTILITIES IN THE VICINITY OF ALL PROPOSED DRAINAGE STRUCTURES PRIOR TO ORDERING SAID STRUCTURES. IF ANY CONFLICTS SHOULD ARISE, THE CONTRACTOR SHALL CONTACT THE PROJECT MANAGER FOR RESOLUTION IMMEDIATELY.

12. GRADES SHOWN ARE FINISHED GRADES.

13. ALL SHOP DRAWINGS MUST BE APPROVED BY SEMINOLE COUNTY PROJECT MANAGER OR HIS DESIGNEE, PRIOR TO FABRICATION.

14. IF ENCOUNTERED, UNSUITABLE MATERIALS SHALL BE REMOVED FROM CONSTRUCTION AREAS AND BACKFILLED WITH SUITABLE MATERIALS.

15. ANY DRAINAGE PROBLEMS, CREATED BY CONSTRUCTION OR EXISTING BEFORE CONSTRUCTION, THAT ARE NOT ALLEVIATED SHOULD BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER.

16. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THE CONSTRUCTION WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE PRE-CONSTRUCTION CONDITION, UNLESS SPECIFICALLY EXEMPTED BY THE PLANS. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION TO BE ALLOWED.

17. "E/P ELEV." FOR CURB INLETS REFERS TO THE EDGE OF PAVEMENT ELEVATION AS MEASURED AT THE CENTERLINE OF THE INLET.

18. THE CONTRACTOR IS TO SAWCUT EXISTING PAVEMENT TO A NEAT EDGE IN ALL AREAS WHERE TIEING INTO EXISTING PAVEMENT. IN AREAS WHERE THE TIE IN IS AT THE R/W LINE (i.e. DRIVEWAYS) THE CONTRACTOR WILL TAKE EXTRA CARE TO STAY WITHIN THE PROPOSED R/W.

19. ALL EXCESS EXCAVATION MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR.

20. THE CONTRACTOR SHALL PRESERVE TREES BY LIMITING THE EXTENTS OF EXCAVATION AND GRADING, WHERE PRACTICAL.

21. EXISTING DRAINAGE STRUCTURES AND PIPES WITHIN CONSTRUCTION LIMITS TO REMAIN UNLESS OTHERWISE SPECIFIED IN PLANS. EXISTING DRAINAGE STRUCTURES AND FACILITIES SHALL BE MAINTAINED AND FULLY FUNCTIONAL DURING CONSTRUCTION.

22. SHRUBS AND TREES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS SHALL BE REMOVED. NO TREES ARE TO BE REMOVED WITHOUT THE PRIOR APPROVAL FROM SEMINOLE COUNTY PROJECT MANAGER.

23. TEMPORARY DRAINAGE SHALL BE PROVIDED DURING CONSTRUCTION TO ELIMINATE ANY FLOODING OF PUBLIC AND PRIVATE PROPERTY.

24. GRADE SIDEWALK FOR POSITIVE DRAINAGE. CROSS SLOPES NOT TO EXCEED 2%. SIDEWALKS ARE TO MEET ALL CURRENT ADA STANDARDS.

25. NO SIDEWALK SHALL HAVE A LONGITUDINAL GRADE (SLOPE) GREATER THAN 1:20 OR 5%; CURB RAMPS 1:12 OR 8.3%. EXCEPT WHERE CALLED FOR IN THE PLAN AND GUIDERAIL WITH HANDRAIL IS PROVIDED THE MAXIMUM SLOPE WILL BE 8.3%. SIDEWALKS ARE TO MEET ALL CURRENT ADA STANDARDS.

26. SOIL MATERIALS USED FOR FILL OR GRADING ACTIVITIES SHALL BE APPROVED BY THE SEMINOLE COUNTY ENGINEERING INSPECTOR PRIOR TO USE.

27. THE CONTRACTOR SHALL NOTIFY THE SEMINOLE COUNTY ENGINEERING INSPECTOR FOR A FIELD INPECTION PRIOR TO PLACEMENT OF ANY CONCRETE.

28. IRRIGATION LINES DAMAGED DURING CONSTRUCTION ARE TO BE CAPPED IMMEDIATELY AND REPORTED TO THE SEMINOLE COUNTY ENGINEERING INSPECTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AND/OR REPLACE ALL DAMAGED IRRIGATION COMPONENTS TO THE PRE-CONSTRUCTION CONDITION AT HIS EXPENSE PRIOR TO COMPLETION OF THE PROJECT. COST TO BE INCLUDED IN 110-1-1.

29. THE TEST REQUIREMENTS FOR CLASS I CONCRETE WILL BE WAIVED UPON PRESENTATION TO THE INSPECTOR A WRITTEN CERTIFICATION FROM THE PLANT THAT THE CONCRETE IS 3000 PSI CONCRETE MIX.

30. THE CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION DEBRIS PRIOR TO COMPLETION OF THE PROJECT.

31. EXISTING UTILITY LOCATIONS SHOWN IN THE PLANS ARE ONLY APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO HAVE ALL EXISTING UNDERGROUND UTILITIES LOCATED IN THE FIELD AND NOTIFY ALL UTILITY OWNERS PUBLIC OR PRIVATE, WITH FACILITIES IN THE AREA OF CONSTRUCTION ACTIVITIES FOR POSSIBLE CONFLICTS AND COORDINATE ANY ADJUSTMENTS AND/OR RELOCATIONS. ALL NOTIFICATIONS TO BE MADE ONE WEEK PRIOR TO COMMENCEMENT OF CONSTRUCTION. CONTACT SUNSHINE STATE ONE CALL AT 1-800-432-4770.

32. ALL DISTURBED AREAS SHALL BE SODDED.

33. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL REQUIRED PERMITS AND LICENSES ARE OBTAINED AND IN HAND BEFORE COMMENCING CONSTRUCTION. FOR ADDITIONAL INFORMAION REFER TO THE FDOT STANDARD SPECIFICATIONS (SECTION 7-2, PERMITS AND LICENSES).

34. IS THE RESPONSIBILITY OF THE CONTRACTOR TO COMPLY WITH THE CURRENT STATE UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT AND/OR RELATED STATE LAW. THE FOLLOWING INFORMATION IS BEING PROVIDED BY SEMINOLE COUNTY IN AN EFFORT TO ASSIST THE CONTRACTOR BY LISTING UTILITIES THAT MAY PROVIDE SERVICE IN THE APPROXIMATE AREA OF THE PROPOSED CONSTRUCTION. THE CONTRACTOR SHOULD ASSUME OTHER UTILITIES THAT ARE NOT LISTED BELOW MAY PROVIDE SERVICE IN THE APPROXIMATE AREA OF THE PROPOSED CONSTRUCTION."

35. IS THE RESPONSIBILITY OF THE CONTRACTOR TO CHECK ALL CONCRETE FORMS PRIOR TO CONCRETE BEING POURED AND CONFIRM THAT THE FINISH SIDEWALK AND/OR CURB RAMP MEET ADA REQUIREMENTS AS INTENDED. FAILURE TO DO SO MAY RESULT IN THE REMOVAL AND REPLACEMENT OF THE CONCRETE AT THE CONTRACTOR'S EXPENSE."

36. ANY GRASSED AREA OUTSIDE OF THE PROJECT LIMITS DISTURBED BY THE CONTRACTOR WILL BE SODDED AT THE CONTRACTOR'S EXPENSE WITHIN 48 HR. OF NOTIFICATION BY THE SEMINOLE COUNTY PROJECT MANAGER.

UTILITY OWNERS:

ZAYO GROUP/FORMERLY LIGHTWAVE LLC
MATT RICHARDS
(813) 587-2584

MCI/VERIZON
INVESTIGATIONS@VERIZON.COM
(469) 886-4091

AT&T DISTRIBUTION
ALAN REYNOLDS
(407) 351-8180

SEMINOLE COUNTY UTILITIES
PAUL ZIMMERMAN
(407) 665-2040

SEMINOLE COUNTY TRAFFIC ENGINEERING
JOHN BROWN
(407) 665-5644

UTILITIES INC. OF FLORIDA
BRYAN GONGRE
(866) 842-8432

CHARTER COMMUNICATIONS
REX ANDERSON
(407) 215-8955

BLACK & VEATCH
JOHN WALKER
(913) 458-2516

CENTURYLINK
MARLON BROWN
(407) 830-3359

DUKE ENERGY
DEFDISTRIBUTIONGOV@DUKE-ENERGY.COM

DUKE ENERGY
DEFTRANSMISSIONGOV@DUKE-ENERGY.COM

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

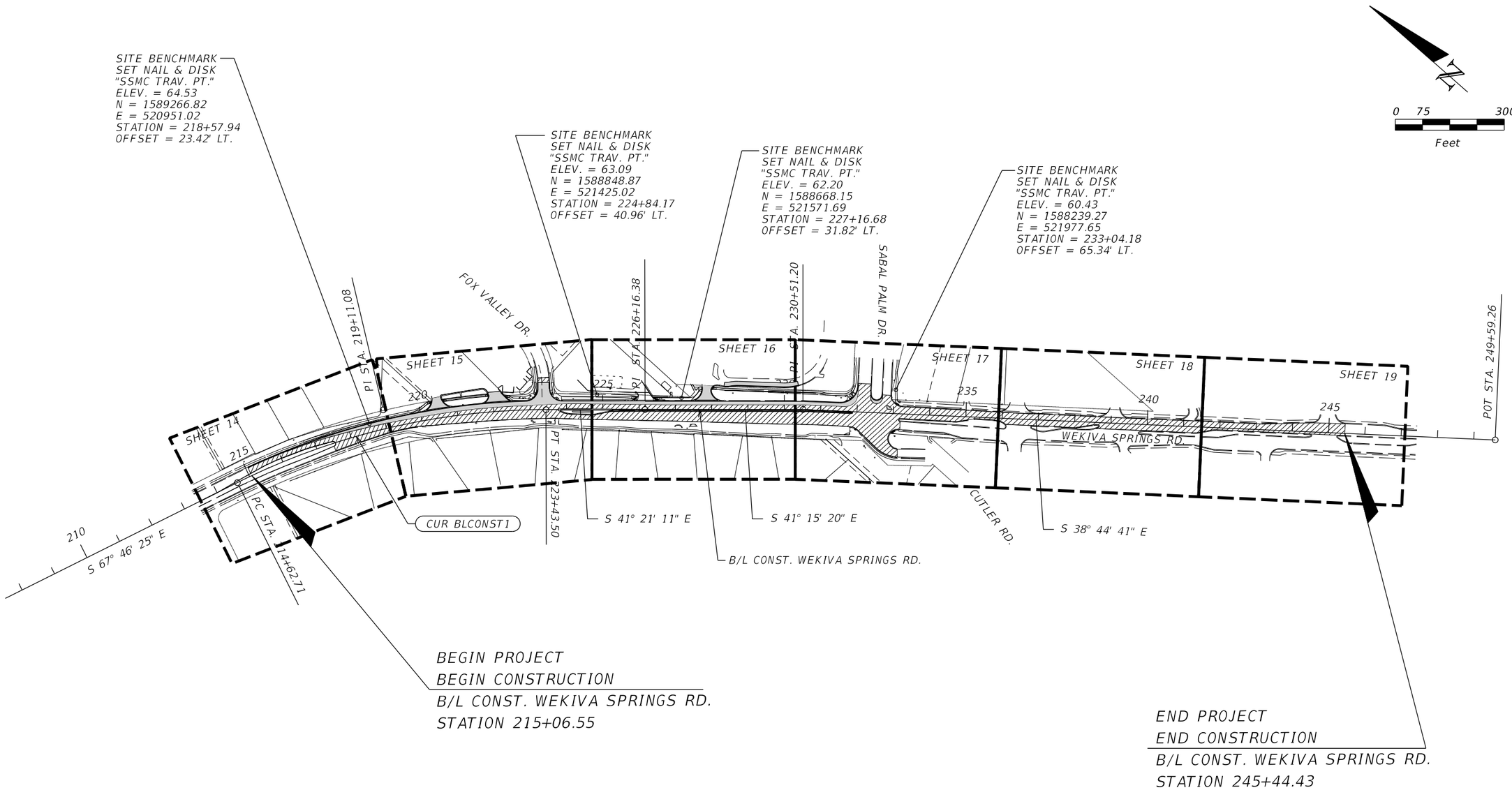
Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
GENERAL NOTES

SHEET NO. 12



CURVE DATA BLCONST1
PI STA. = 219+11.08
Δ = 26° 25' 14" (RT)
D = 2° 59' 59"
T = 448.37
L = 880.79
R = 1,910.08
PC STA. = 214+62.71
PT STA. = 223+43.50
e = NC

LEGEND
- MILLING & RESURFACING
- PAVEMENT WIDENING

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
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CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
PROJECT LAYOUT SHEET

SHEET NO. 13

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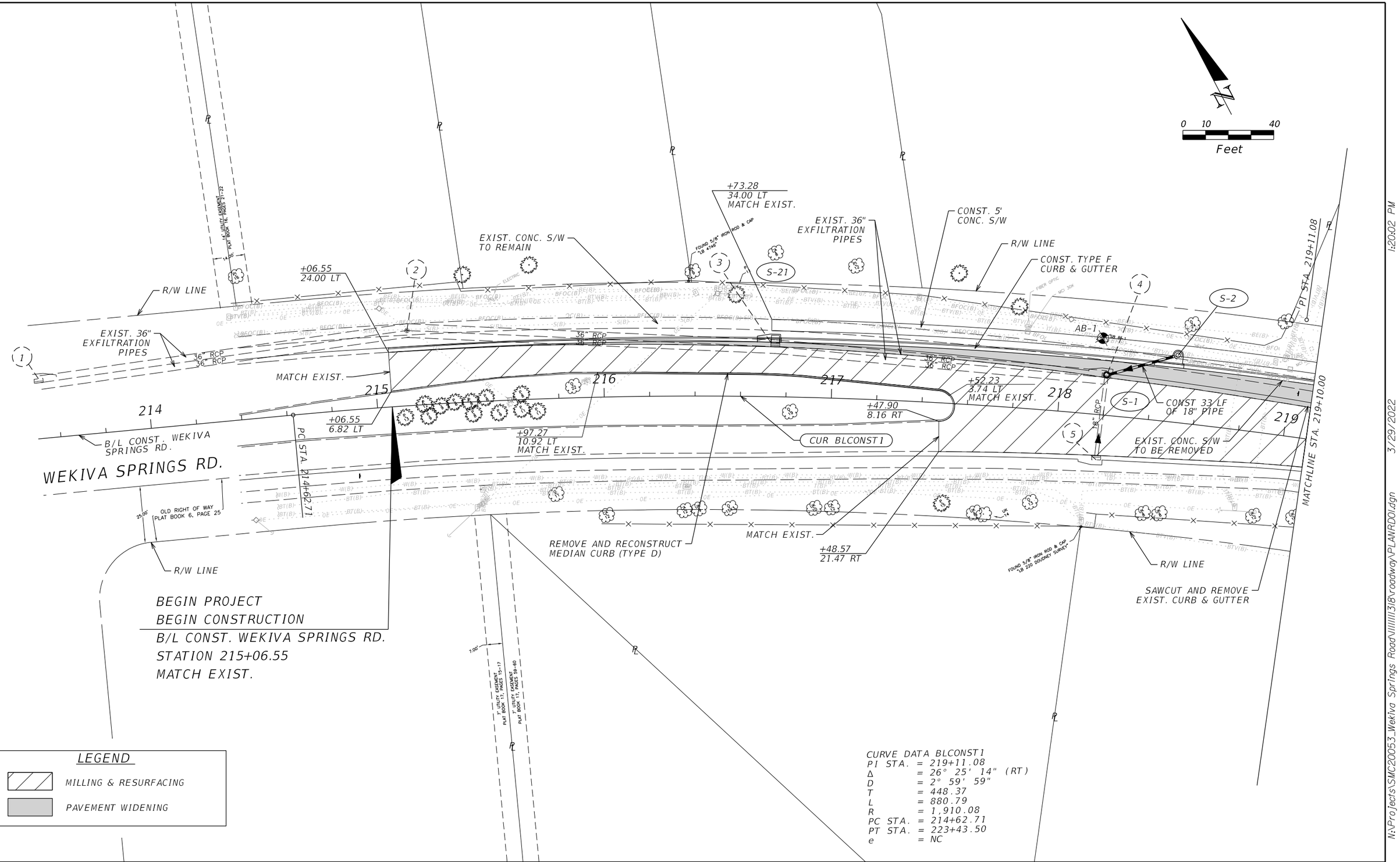

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
PLAN SHEET

SHEET NO. 14

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POINT TABLE		
	STA.	OFFSET
A	219+79.59	34.00 LT
B	220+17.57	46.19 LT
C	222+82.69	42.00 LT
D	223+16.02	37.95 LT
E	223+53016	49.12 LT
F	223+64.32	30.96 LT
G	222+29.97	41.21 LT

MORSE INSURANCE

VARIOUS BUSINESSES

FOX VALLEY DR.

7-11

DRIVEWAY NO. 1

DRIVEWAY NO. 2

RETURN NO. 1

RETURN NO. 2

WEKIVA SPRINGS RD.

MATCHLINE STA. 219+10.00

MATCHLINE STA. 224+70.00

PT STA. 223+43.50

CURVE DATA BLCONST1
PI STA. = 219+11.08
Δ = 26° 25' 14" (RT)
D = 2° 59' 59"
T = 448.37
L = 880.79
R = 1,910.08
PC STA. = 214+62.71
PT STA. = 223+43.50
e = NC

LEGEND

MILLING & RESURFACING

PAVEMENT WIDENING/ RECONSTRUCTION

DETECTABLE WARNING

RETURN	PC			PT			RADIUS
	STATION	OFFSET	ELEV.	STATION	OFFSET	ELEV.	
NO. 1	222+88.75	24.00' LT	61.77	223+22.70	58.57' LT	62.00	35'
NO. 2	223+87.15	22.50' LT	61.56	223+52.15	57.20' LT	61.83	35'

FOR ADDITIONAL INTERSECTION INFORMATION SEE SHEET 24

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
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CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
PLAN SHEET

SHEET NO. 15

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POINT TABLE		
	STA.	OFFSET
H	227+39.45	32.50 LT
I	227+48.87	56.49 LT
J	227+43.47	67.62 LT
K	227+49.17	67.37 LT
L	227+52.05	61.50 LT
M	227+64.27	61.50 LT
N	228+35.64	75.28 LT
O	228+47.55	75.34 LT

POINT TABLE		
	STA.	OFFSET
P	225+89.32	47.00 LT
Q	225+97.23	41.66 LT
R	225+96.66	35.64 LT
S	226+27.20	47.00 LT
T	226+32.96	38.26 LT
U	227+97.74	47.38 LT
V	227+74.22	62.61 LT
W	228+04.80	65.28 LT

POINT TABLE		
	STA.	OFFSET
BB	226+75.77	52.04 LT
CC	227+69.39	91.49 LT
DD	226+37.10	33.11 LT
EE	228+73.28	77.28 LT
FF	229+97.02	73.36 LT
GG	228+35.12	58.32 LT

SABAL POINT ELEMENTARY SCHOOL

0 10 40 Feet

7-11

DRIVEWAY NO. 3

DRIVEWAY NO. 4

EXISTING 7-11 SIGN (TO BE RELOCATED)

EXIST. S/W AND HANDRAIL TO BE REMOVED

EXIST. S/W TO BE REMOVED

CONST. TYPE D CURB

MATCH EXIST.

CONST. TYPE F CURB & GUTTER

CONST. 8' CONC. S/W

R/W LINE

CONST. 8' CONC. S/W

END GRAVITY WALL +10.00, 32.50 LT

CONST. 5' CONC. S/W

MATCH EXIST.

EXIST CURB & GUTTER TO REMAIN

EXIST. PIPE TO REMAIN

CONST. CONCRETE GRAVITY WALL WITH PEDESTRIAN/BICYCLE RAILING STA. 228+34.82 TO STA. 230+85.00 INDEX 400-011, 515-062

EXIST. 24" PIPE TO BE REMOVED

SAWCUT, REMOVE AND RECONSTRUCT SCHOOL ACCESS ROAD AND TYPE F CURB AND GUTTER (STA. 228+33.76 TO STA. 230+38.86)

EXIST. S/W TO BE REMOVED

CONST. TYPE F CURB & GUTTER

CONST. 5' CONC S/W

R/W LINE

T.C.E. NO. 1

T.C.E. NO. 2

R.O.E. NO. 3

S-10 S-11 S-12 S-13 S-14 S-15 S-16

B-8 AB-9 AB-10 AB-11 AB-12 BP-1 BP-2

CR-E CR-E

225 226 227 228 229 230

MATCHLINE STA. 224+70.00

MATCHLINE STA. 230+30.00

S 41° 15' 20" E

B/L CONST. WEKIVA SPRINGS RD.

WEKIVA SPRINGS RD.

CONST. 9 LF OF 18" RCP

SAWCUT AND REMOVE EXIST. CURB & GUTTER

CONST. 6" CONCRETE DRIVEWAY

CONST. CONCRETE VALLEY GUTTER

CONST. 12 LF OF 14"x23" ERCP

BEGIN GRAVITY WALL +46.00, 32.50 LT

CONST. CONCRETE VALLEY GUTTER

CONST. 11 LF OF 14"x23" ERCP

CONST. TYPE F CURB & GUTTER

EXIST. TYPE E CURB & GUTTER TO REMAIN

CONST. TYPE E CURB & GUTTER

CONST. 4' CONC. TRAFFIC SEPARATOR, TYPE I OPTION II

SAWCUT AND REMOVE EXIST. CONC. TRAFFIC SEPARATOR

R/W LINE

FOUND 4"x4" CONCRETE MONUMENT WITH 1/2" IRON ROD NO ID

FOUND 1/2" IRON ROD NO ID

LEGEND

MILLING & RESURFACING

PAVEMENT WIDENING/RECONSTRUCTION

DETECTABLE WARNING

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REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
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301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

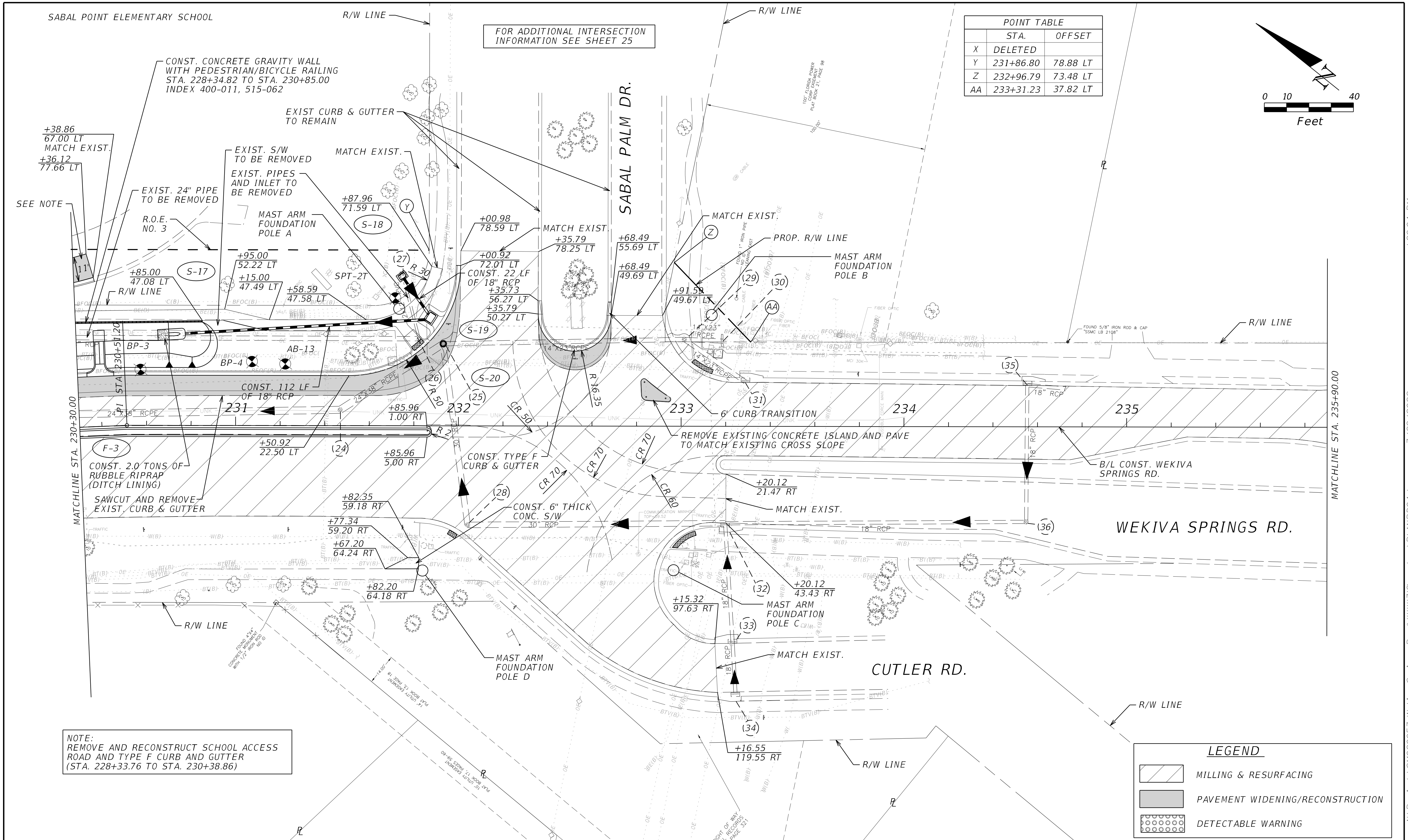
Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
PLAN SHEET

SHEET NO. 16



SABAL POINT ELEMENTARY SCHOOL
R/W LINE
FOR ADDITIONAL INTERSECTION INFORMATION SEE SHEET 25
CONST. CONCRETE GRAVITY WALL WITH PEDESTRIAN/BICYCLE RAILING STA. 228+34.82 TO STA. 230+85.00 INDEX 400-011, 515-062
EXIST CURB & GUTTER TO REMAIN
SABAL PALM DR.
+38.86 67.00 LT MATCH EXIST.
+36.12 77.66 LT
EXIST. S/W TO BE REMOVED
MATCH EXIST.
EXIST. PIPES AND INLET TO BE REMOVED
EXIST. 24" PIPE TO BE REMOVED
SEE NOTE
R.O.E. NO. 3
+87.96 71.59 LT
MAST ARM FOUNDATION POLE A
S-18
+00.98 78.59 LT
MATCH EXIST.
+35.79 78.25 LT
+68.49 55.69 LT
+68.49 49.69 LT
MATCH EXIST.
PROP. R/W LINE
MAST ARM FOUNDATION POLE B
+95.00 52.22 LT
+15.00 47.49 LT
+85.00 47.08 LT
S-17
SPT-2T
R 30
+00.92 72.01 LT
CONST. 22 LF OF 18" RCP
+35.73 56.27 LT
+35.79 50.27 LT
+91.59 49.67 LT
R/W LINE
+58.59 47.58 LT
S-19
14"X23" RCPE
BP-3
BP-4
AB-13
CONST. 112 LF OF 18" RCP
S-20
R 50
R 16.35
6" CURB TRANSITION
24"X38" RCPE
231
232
233
234
235
18" RCP
+85.96 1.00 RT
R 2
MATCHLINE STA. 230+30.00
MATCHLINE STA. 235+90.00
STA. 230+51.20
F-3
+50.92 22.50 LT
+85.96 5.00 RT
CR 50
CR 70
CR 60
REMOVE EXISTING CONCRETE ISLAND AND PAVE TO MATCH EXISTING CROSS SLOPE
CONST. 2.0 TONS OF RUBBLE RIPRAP (DITCH LINING)
CONST. TYPE F CURB & GUTTER
B/L CONST. WEKIVA SPRINGS RD.
SAWCUT AND REMOVE EXIST. CURB & GUTTER
+82.35 59.18 RT
CONST. 6" THICK CONC. S/W
+20.12 21.47 RT
MATCH EXIST.
WEKIVA SPRINGS RD.
+77.34 59.20 RT
+67.20 64.24 RT
+82.20 64.18 RT
+20.12 43.43 RT
+15.32 97.63 RT
MAST ARM FOUNDATION POLE C
R/W LINE
MAST ARM FOUNDATION POLE D
MATCH EXIST.
CUTLER RD.
R/W LINE
+16.55 119.55 RT
R/W LINE
0 10 40 Feet

POINT TABLE

	STA.	OFFSET
X	DELETED	
Y	231+86.80	78.88 LT
Z	232+96.79	73.48 LT
AA	233+31.23	37.82 LT

NOTE:
REMOVE AND RECONSTRUCT SCHOOL ACCESS ROAD AND TYPE F CURB AND GUTTER (STA. 228+33.76 TO STA. 230+38.86)

LEGEND

- MILLING & RESURFACING
- PAVEMENT WIDENING/RECONSTRUCTION
- DETECTABLE WARNING

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REVISIONS	
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
PLAN SHEET

SHEET NO. 17

LOT 4
A REPLAT OF TRACT "H", OSBAR POINT
PLAT BOOK 21, PAGE 98

FIRE STATION

POST OFFICE

R/W LINE

R/W LINE

0 10 40
Feet

MATCHLINE STA. 235+90.00

MATCHLINE STA. 241+50.00

236 237 238 239 240 241

S 38° 44' 41" E

B/L CONST. WEKIVA SPRINGS RD.

+09.97
16.47 RT

+83.99
16.50 RT

+59.34
16.95 RT

+01.06
16.88 RT

WEKIVA SPRINGS RD.

KID CITY USA

SACOWI MEDICAL CLINIC

LEGEND

MILLING & RESURFACING

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
PLAN SHEET

SHEET NO. 18

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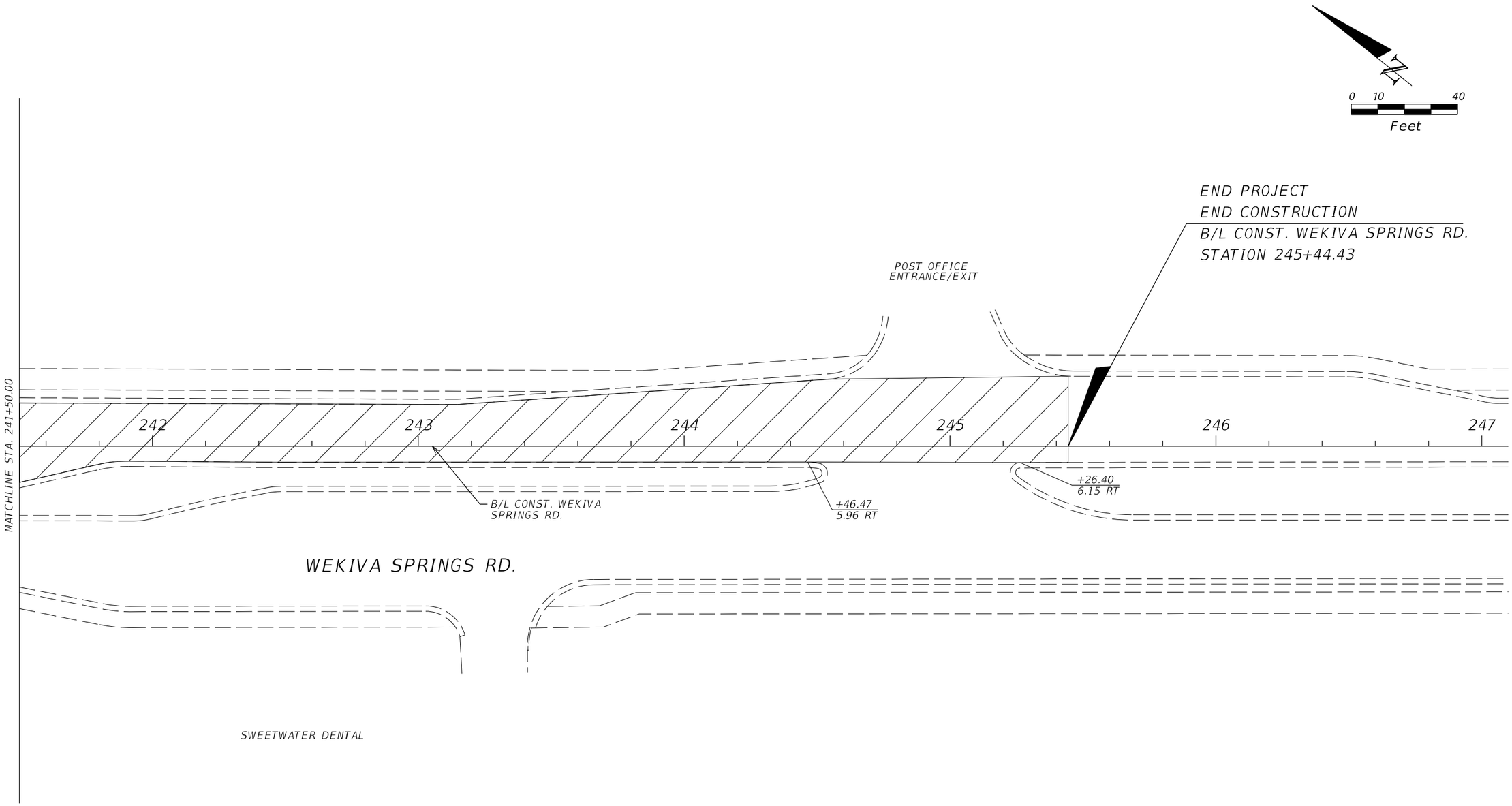

REVISIONS		
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PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
PLAN SHEET

SHEET NO. 19

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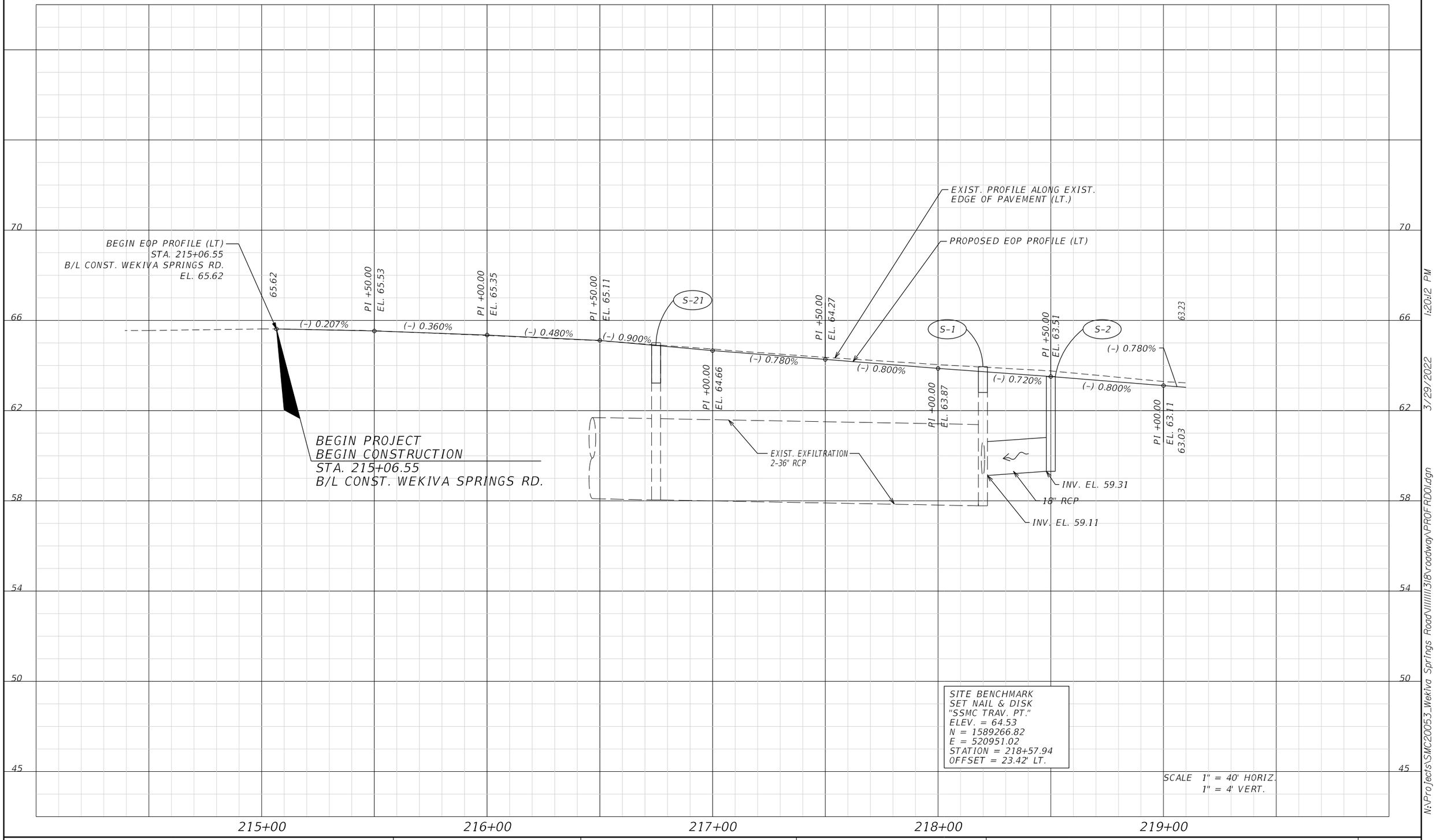

SITE BENCHMARK
SET NAIL & DISK
"SSMC TRAV. PT."
ELEV. = 64.53
N = 1589266.82
E = 520951.02
STATION = 218+57.94
OFFSET = 23.42' LT.

SCALE 1" = 40' HORIZ.
1" = 4' VERT.

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
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301 WEST STATE ROAD 434, SUITE 309
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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
PROFILE SHEET

SHEET NO. 20

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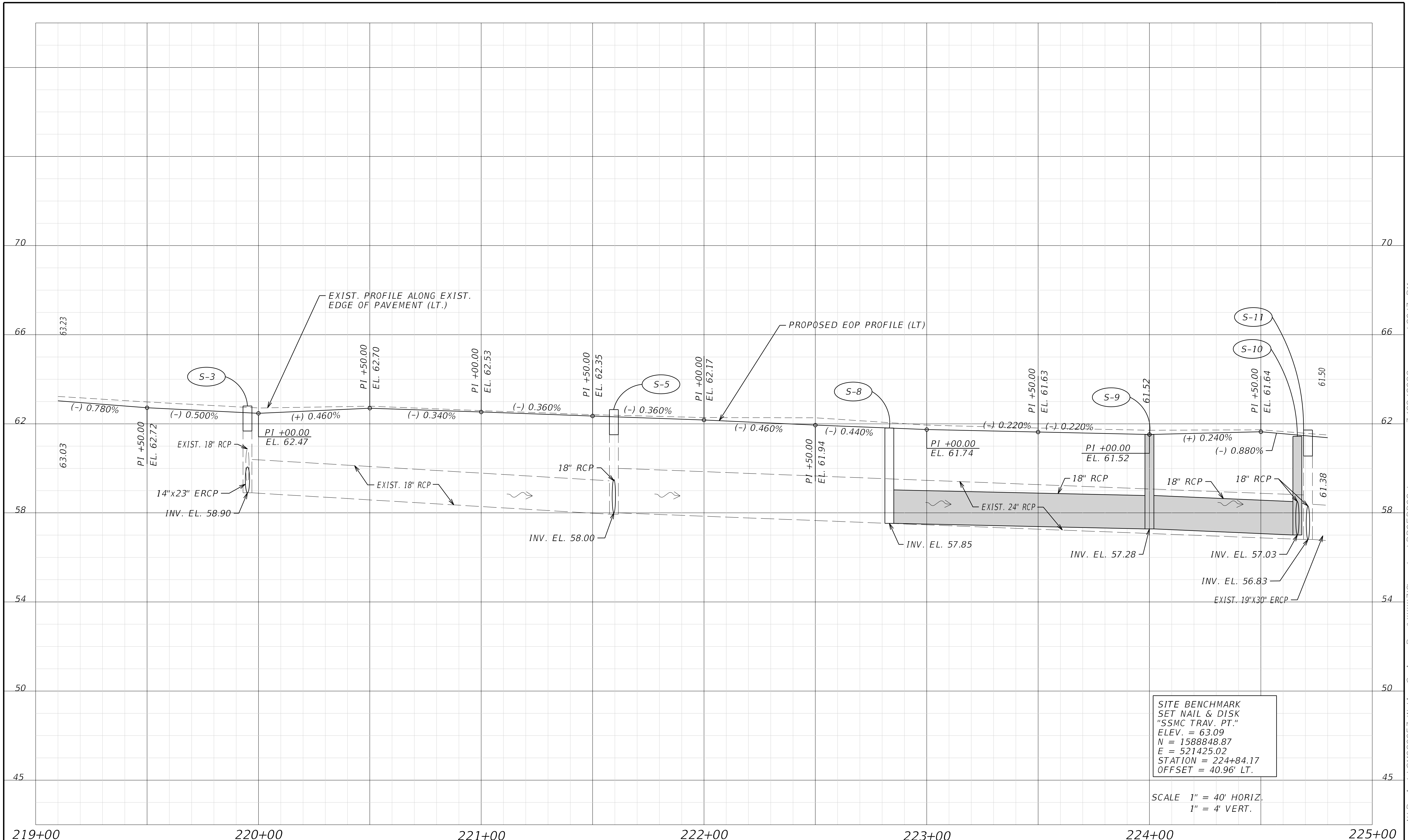

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REVISIONS		
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PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
PROFILE SHEET

SHEET NO.
21

70
66
62
58
54
50
45

61.50
PI +00.00
EL. 61.20
(-) 0.880%
(-) 1.420%
(-) 1.400%
(-) 1.540%
PI +50.00
EL. 60.47
61.38
EXIST. 19"X30" ERCP
EXIST. PROFILE ALONG EXIST. EDGE OF PAVEMENT (LT.)
PI +00.00
EL. 59.76
+56.00
EL. 61.94
+46.00
EL. 59.73
+46.00
EL. 59.23
PI +50.00
EL. 58.99
+56.00
EL. 59.44
(-) 0.740%
PI +00.00
EL. 58.62
PI +16.00
EL. 58.51
14"X23" ERCP
INV. EL. 54.70
EXIST. 19"X30" ERCP
PROPOSED FACE OF GRAVITY WALL
TOP OF GRAVITY WALL
+00.00
EL. 61.61
+10.00
EL. 59.00
S-14
S-12
(-) 0.687%
(+) 0.276%
PI +50.00
EL. 58.60
EXIST. 24"X38" ERCP
+34.82
EL. 61.75
PI +00.00
EL. 58.74
(+) 0.276%
(+) 0.276%
PROPOSED EOP PROFILE (LT)
PI +50.00
EL. 58.88
BP-1
2-4-21
BP-1
2-4-21
BEGIN LINEAR POND
STA. 228+28.71
EL. 56.75
EL. 56.75
PI +00.00
EL. 59.03
(+) 0.300%
(+) 0.300%
AB-11
1-28-21
PROPOSED FACE OF GRAVITY WALL
TOP OF GRAVITY WALL
+00.00
EL. 61.75
PI +50.00
EL. 59.18
(+) 0.240%
(+) 0.300%
BP-2
2-4-21
AB-12
1-28-21
LINEAR POND BOTTOM
PI +00.00
EL. 59.30
59.58
59.39

SITE BENCHMARK
SET NAIL & DISK
"SSMC TRAV. PT."
ELEV. = 63.09
N = 1588848.87
E = 521425.02
STATION = 224+84.17
OFFSET = 40.96' LT.

SITE BENCHMARK
SET NAIL & DISK
"SSMC TRAV. PT."
ELEV. = 62.20
N = 1588668.15
E = 521571.69
STATION = 227+16.68
OFFSET = 31.82' LT.

SCALE 1" = 40' HORIZ.
1" = 4' VERT.

225+00 226+00 227+00 228+00 229+00 230+00

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REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

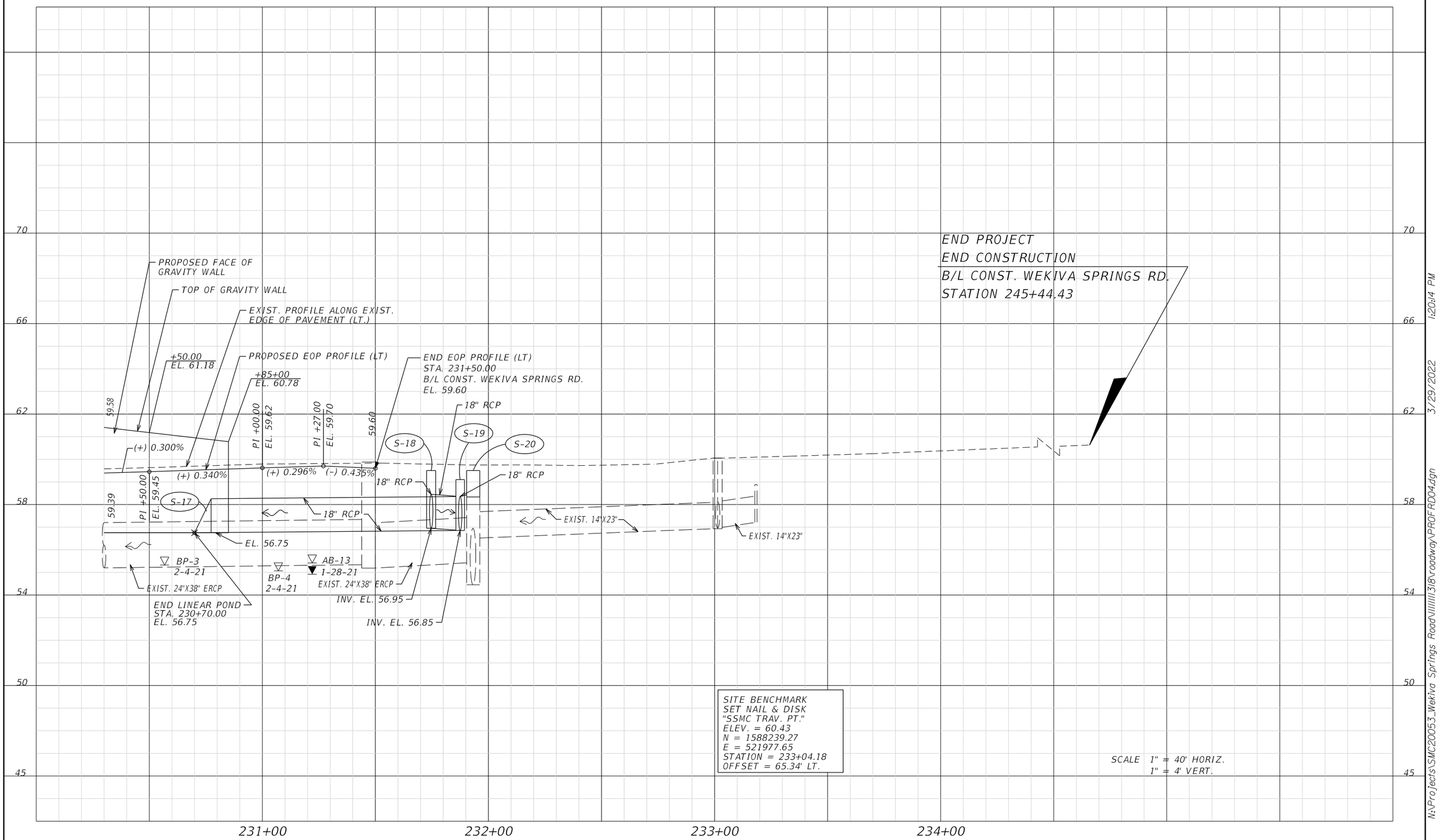
Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
PROFILE SHEET

SHEET NO. 22



REVISIONS		
DATE	BY	DESCRIPTION

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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
PROFILE SHEET

SHEET NO. 23

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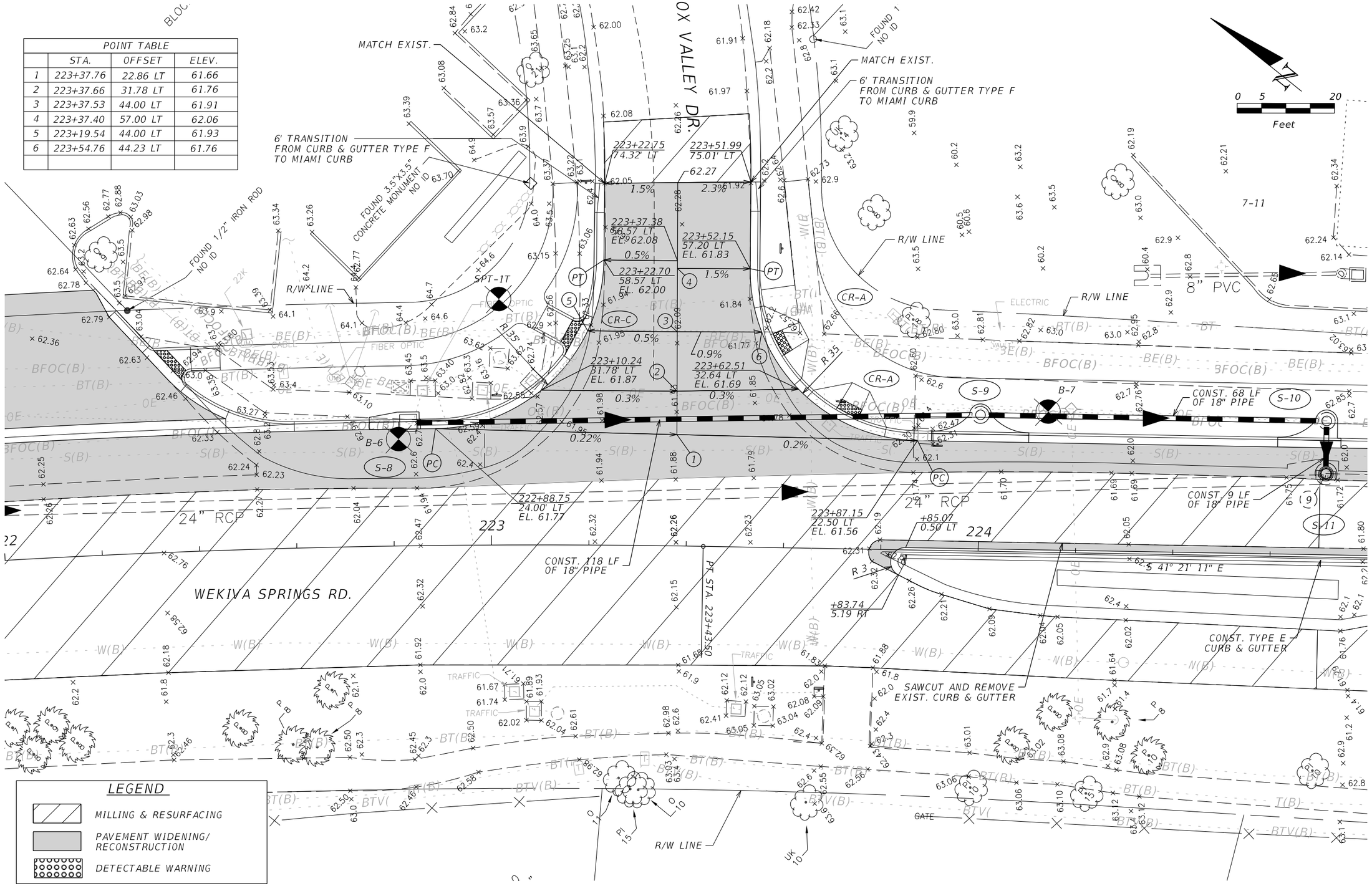
POINT TABLE			
	STA.	OFFSET	ELEV.
1	223+37.76	22.86 LT	61.66
2	223+37.66	31.78 LT	61.76
3	223+37.53	44.00 LT	61.91
4	223+37.40	57.00 LT	62.06
5	223+19.54	44.00 LT	61.93
6	223+54.76	44.23 LT	61.76



LEGEND

- MILLING & RESURFACING
- PAVEMENT WIDENING/ RECONSTRUCTION
- DETECTABLE WARNING

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD INTERSECTION DETAILS

SHEET NO. 24

N:\Projects\SMC20053_Wekiva Springs Road\!!!!!!!3\8roadway\NTDRDOI.dgn 3/29/2022 1:20:5 PM

SABAL POINT ELEMENTARY SCHOOL

SABAL PALM DR.

WEKIVA SPRINGS RD.

CUTLER RD.

MAST ARM FOUNDATION POLE A

MAST ARM FOUNDATION POLE B

MAST ARM FOUNDATION POLE C

MAST ARM FOUNDATION POLE D

R/W LINE

EXIST. 24" PIPE (TO BE REMOVED)

+15.00 47.49 LT

+58.59 47.58 LT

+87.96 71.59 LT

232+00.92 72.01' LT EL. 59.84 MATCH EXIST.

CONST. 22 LF OF 18" RCP

232+35.73 56.27' LT MATCH EXIST.

232+68.49 55.69' LT MATCH EXIST.

6' TRANSITION FROM CURB & GUTTER TYPE F TO CURB & GUTTER TYPE A

231+90.17 41.53' LT EL. 59.40

231+75.16 28.77' LT EL. 59.49

232+51.85 33.63' LT EL. 59.74

SAWCUT AND REMOVE EXIST. CURB & GUTTER

REMOVE EXISTING CONCRETE ISLAND S 38° 44' 41" E AND PAVE TO MATCH EXISTING CROSS SLOPE (OVERBUILD AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE)

231+27.22 22.50' LT EL. 59.70

231+50.92 22.50' LT EL. 59.60

+85.96 1.00 RT

+85.96 5.00 RT

CONST. 112 LF OF 18" RCP

CONST. 4' CONC. TRAFFIC SEPARATOR, TYPE I OPTION II

+77.34 59.20 RT

+67.20 64.24 RT

+82.35 59.18 RT

+82.20 64.18 RT

CONST. 6" THICK CONC. S/W

FOUND 1" IRON PIPE NO ID LEANING EAST

231 232 233

S-18 S-19 S-20 CR-E

CR 50 CR 70 CR 60

24" RCPE 30" RCP 18" RCP 14"X23" RCPE

0 5 20 Feet

LEGEND

MILLING & RESURFACING

PAVEMENT WIDENING

DETECTABLE WARNING

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD INTERSECTION DETAIL

SHEET NO. 25

N:\Projects\SMC20053_Wekiva Springs Road\VIIIIII\318\roadway\NTDRD02.dgn 3/29/2022 1:20:5 PM

DATE OF SURVEY: JANUARY 2021 - FRBRUARY 2021
SURVEY MADE BY: TIERRA, INC.
SUBMITTED BY: JEREMY A. SEWELL, P.E.

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION
MATERIALS AND RESEARCH

DISTRICT: 5
ROAD NO.: N/A
COUNTY: SEMINOLE

SEMINOLE COUNTY CIP NO. : 02007027
PROJECT NAME: WEKIVA SPRINGS ROAD IMPROVEMENTS

CROSS SECTION SOIL SURVEY FOR THE DESIGN OF ROADS AND PONDS

SURVEY BEGINS STA. : 216+50 SURVEY ENDS STA. : 234+50 REFERENCE: ℄ CONSTRUCTION OF WEKIVA SPRINGS ROAD

	ORGANIC CONTENT		MOISTURE CONTENT		SIEVE ANALYSIS RESULTS PERCENT PASS (%)						ATTERBERG LIMITS (%)					CORROSION TEST RESULTS				
STRATUM NO.	NO. OF TESTS	% ORGANIC	NO. OF TESTS	MOISTURE CONTENT	NO. OF TESTS	10 MESH	40 MESH	60 MESH	100 MESH	200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTIC INDEX	AASHTO GROUP	DESCRIPTION	NO. OF TESTS	RESISTIVITY ohm-cm	CHLORIDE ppm	SULFATES ppm	pH
1	--	--	--	--	13	98-100	94-96	68-76	19-27	3-7	--	--	--	A-3	LIGHT BROWN, GRAY-BROWN TO BROWN, AND DARK BROWN SAND TO SAND WITH SILT	3	34,000-67,000	30	<5	6.8-7.1
2	--	--	1	10	5	99-100	96-97	81-87	41-55	14-31	1	25	7	A-2-4	GRAY-BROWN TO BROWN SILTY SAND	--	--	--	--	--
3	--	--	--	--	1	100	99	97	86	67	--	--	--	A-6/A-7-6	GRAY TO GRAY-BROWN SANDY CLAY	--	--	--	--	--

NOTES:

1. THE MATERIAL FROM STRATUM 1 (A-3) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001.
2. THE MATERIAL FROM STRATUM 2 (A-2-4) APPEARS SATISFACTORY FOR USE IN THE EMBANKMENT WHEN UTILIZED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-001. HOWEVER, THIS MATERIAL IS LIKELY TO RETAIN EXCESS MOISTURE AND MAY BE DIFFICULT TO DRY AND COMPACT. IT SHOULD BE USED IN THE EMBANKMENT ABOVE THE WATER LEVEL EXISTING AT THE TIME OF CONSTRUCTION.
3. THE MATERIAL FROM STRATUM 3 (A-6/A-7-6) IS PLASTIC MATERIAL AND SHALL BE REMOVED IN ACCORDANCE WITH STANDARD PLANS, INDEX 120-002. IT MAY REMAIN IN PLACE ABOVE THE EXISTING WATER LEVEL (AT THE TIME OF CONSTRUCTION) TO WITHIN 2 FEET OF THE PROPOSED BASE.
4. THE "--" INDICATES AN UNMEASURED PARAMETER.

EMBANKMENT AND SUBGRADE MATERIAL

STRATA BOUNDARIES ARE APPROXIMATE. MAKE FINAL CHECK AFTER GRADING.

▽ - ESTIMATED SEASONAL HIGH GROUNDWATER TABLE

▼ - WATER TABLE ENCOUNTERED

GNE - GROUNDWATER NOT ENCOUNTERED

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

REVISIONS		
DATE	BY	DESCRIPTION

JEREMY A. SEWELL, P.E.
P.E. LICENSE NUMBER 62951
TIERRA, INC.
591 SUSAN B. BRITT COURT
WINTER GARDEN, FLORIDA 34787

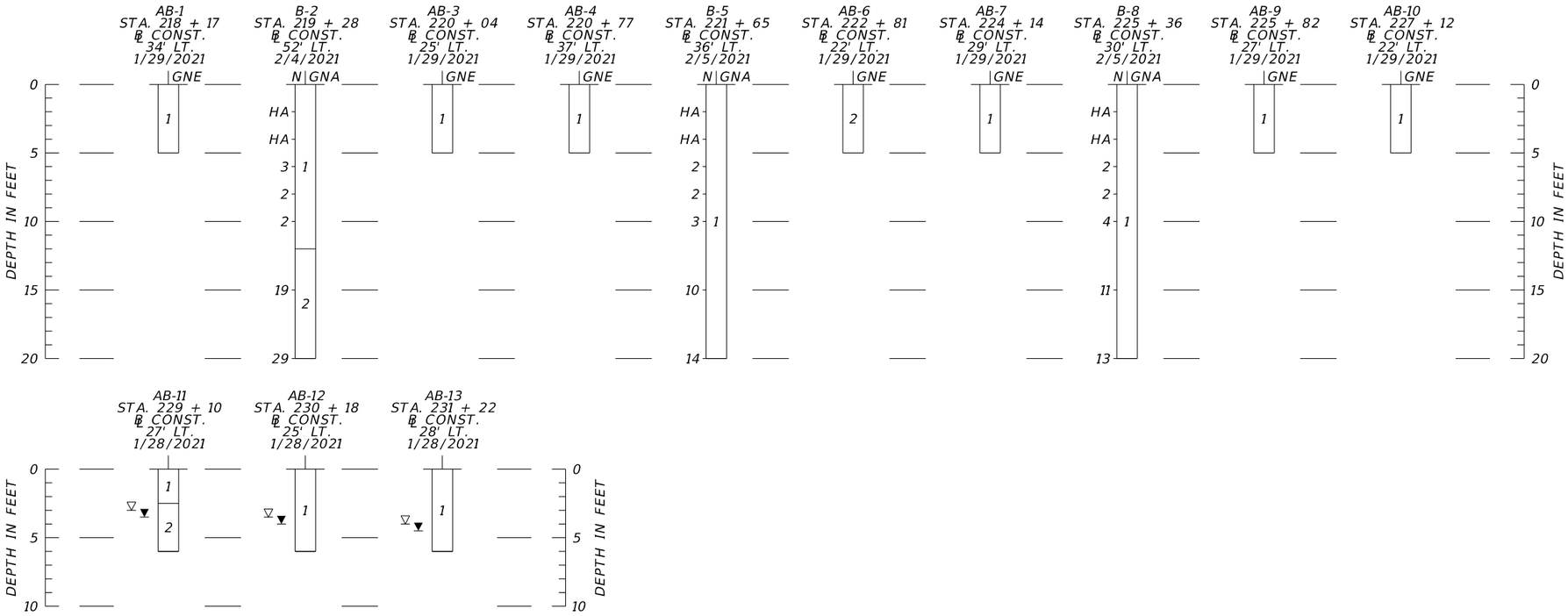
TIERRA GEOTECHNICAL • MATERIALS ENVIRONMENTAL • ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

ROADWAY SOIL SURVEY

SHEET NO. 26



LEGEND

1.	LIGHT BROWN, GRAY-BROWN TO BROWN, AND DARK BROWN SAND TO SAND WITH SILT (A-3)
2.	GRAY-BROWN TO BROWN SILTY SAND (A-2-4)
3.	GRAY TO GRAY-BROWN SANDY CLAY (A-6/A-7-6)
A-3	AASHTO 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
▽	ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
▼	GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
GNE	GROUNDWATER NOT ENCOUNTERED
GNA	GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.

℄ CONST. BASELINE CONSTRUCTION OF WEKIVA SPRINGS RD.

	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		
DATE	BY	DESCRIPTION

JEREMY A. SEWELL, P.E.
P.E. LICENSE NUMBER 62951
TIERRA, INC.
591 SUSAN B. BRITT COURT
WINTER GARDEN, FLORIDA 34787

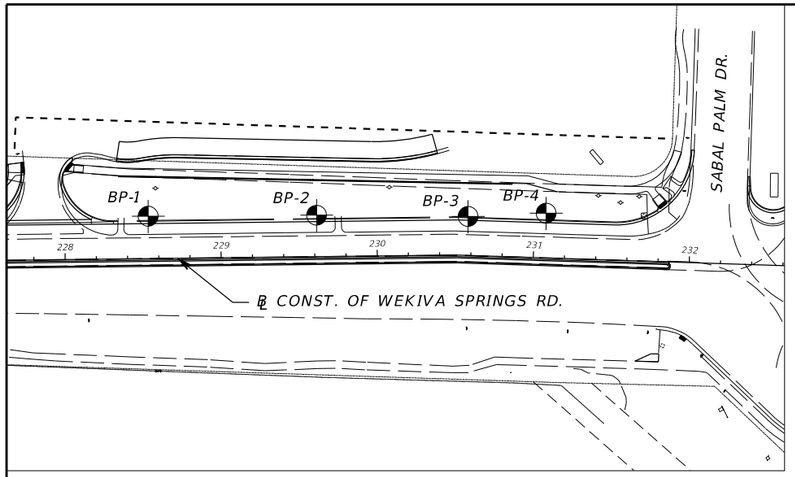
TIERRA
GEOTECHNICAL • MATERIALS
ENVIRONMENTAL • ENGINEERING

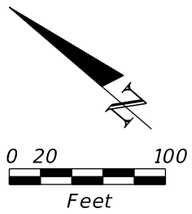
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

ROADWAY SOIL PROFILES

SHEET NO. 27

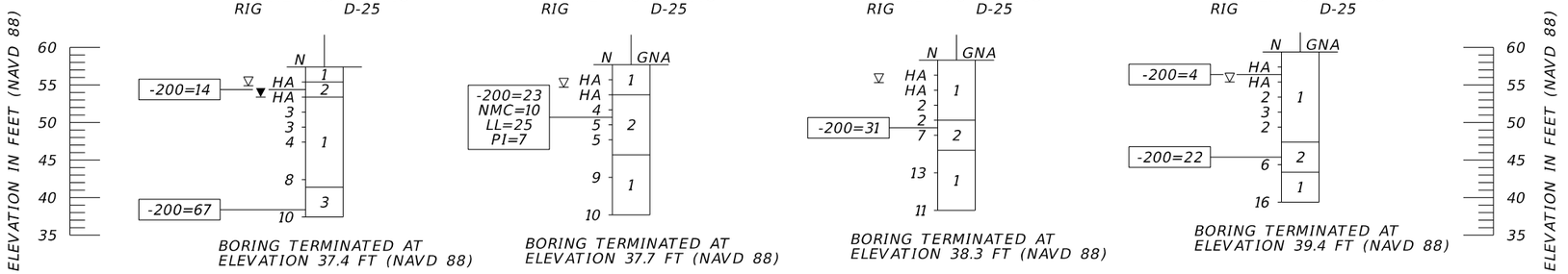




BORING LOCATION PLAN

LEGEND

1.	LIGHT BROWN, GRAY-BROWN TO BROWN, AND DARK BROWN SAND TO SAND WITH SILT (A-3)
2.	GRAY-BROWN TO BROWN SILTY SAND (A-2-4)
3.	GRAY TO GRAY-BROWN SANDY CLAY (A-6/A-7-6)
A-3	AASHTO 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
-200	PERCENT PASSING #200 SIEVE
NMC	NATURAL MOISTURE CONTENT (%)
LL	LIQUID LIMIT (%)
PI	PLASTICITY INDEX (%)
NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988
⊕	APPROXIMATE SPT BORING LOCATION
▽	ESTIMATED SEASONAL HIGH GROUNDWATER TABLE
▼	GROUNDWATER LEVEL ENCOUNTERED DURING FIELD EXPLORATIONS
GNA	GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.
℄ CONST.	BASELINE CONSTRUCTION OF WEKIVA SPRINGS RD.



	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

EXFILTRATION SYSTEM

REVISIONS		
DATE	BY	DESCRIPTION

JEREMY A. SEWELL, P.E.
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TIERRA, INC.
591 SUSAN B. BRITT COURT
WINTER GARDEN, FLORIDA 34787

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GEOTECHNICAL • MATERIALS
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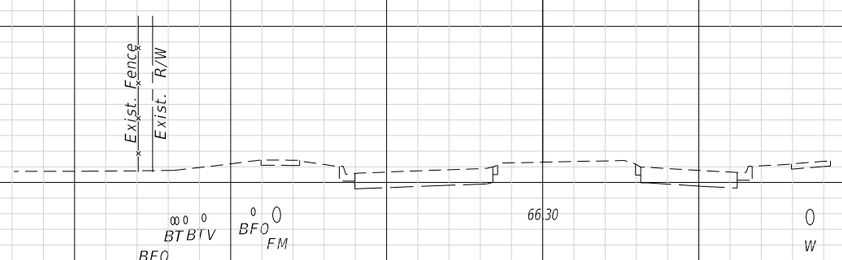
SEMINOLE COUNTY
ENGINEERING DIVISION

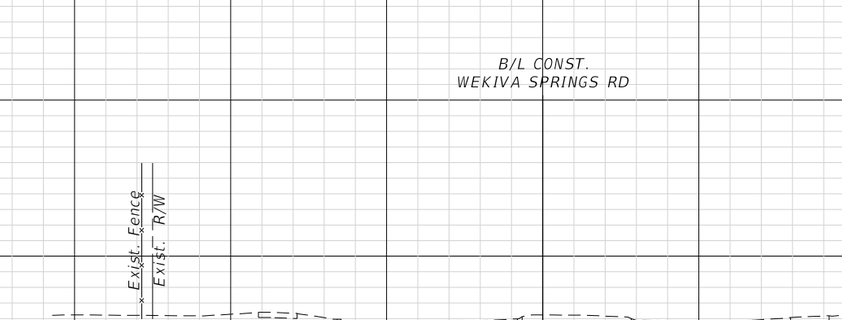
ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

POND SOIL SURVEY

SHEET NO. 28

Regular Exc.		Embankment	
A	V	A	V
0		0	





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DATE	BY	DESCRIPTION

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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 29

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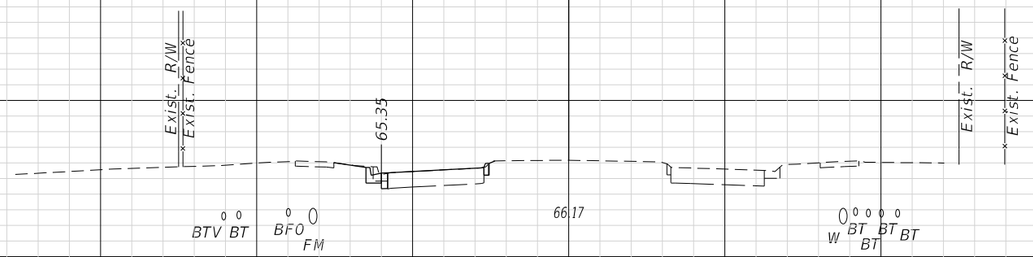

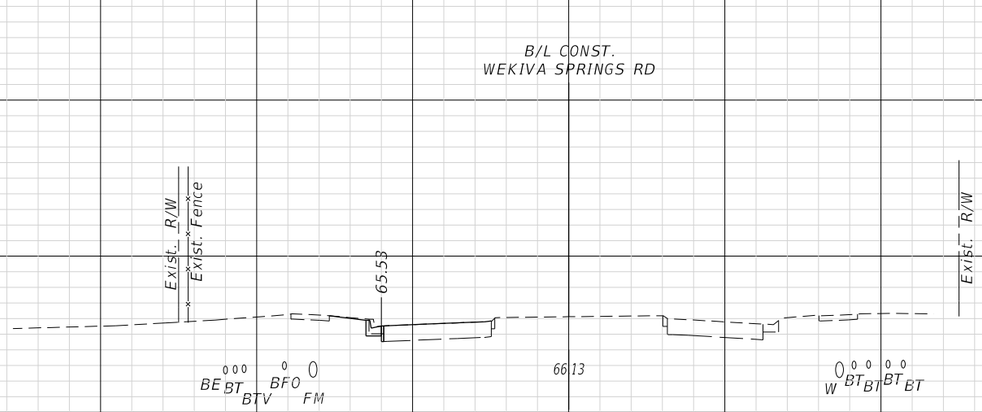

Regular Exc.		Embankment	
A	V	A	V
2		0	
	2		0
1		0	
	1		0

216+00.00

215+50.00

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

REVISIONS		
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SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 30

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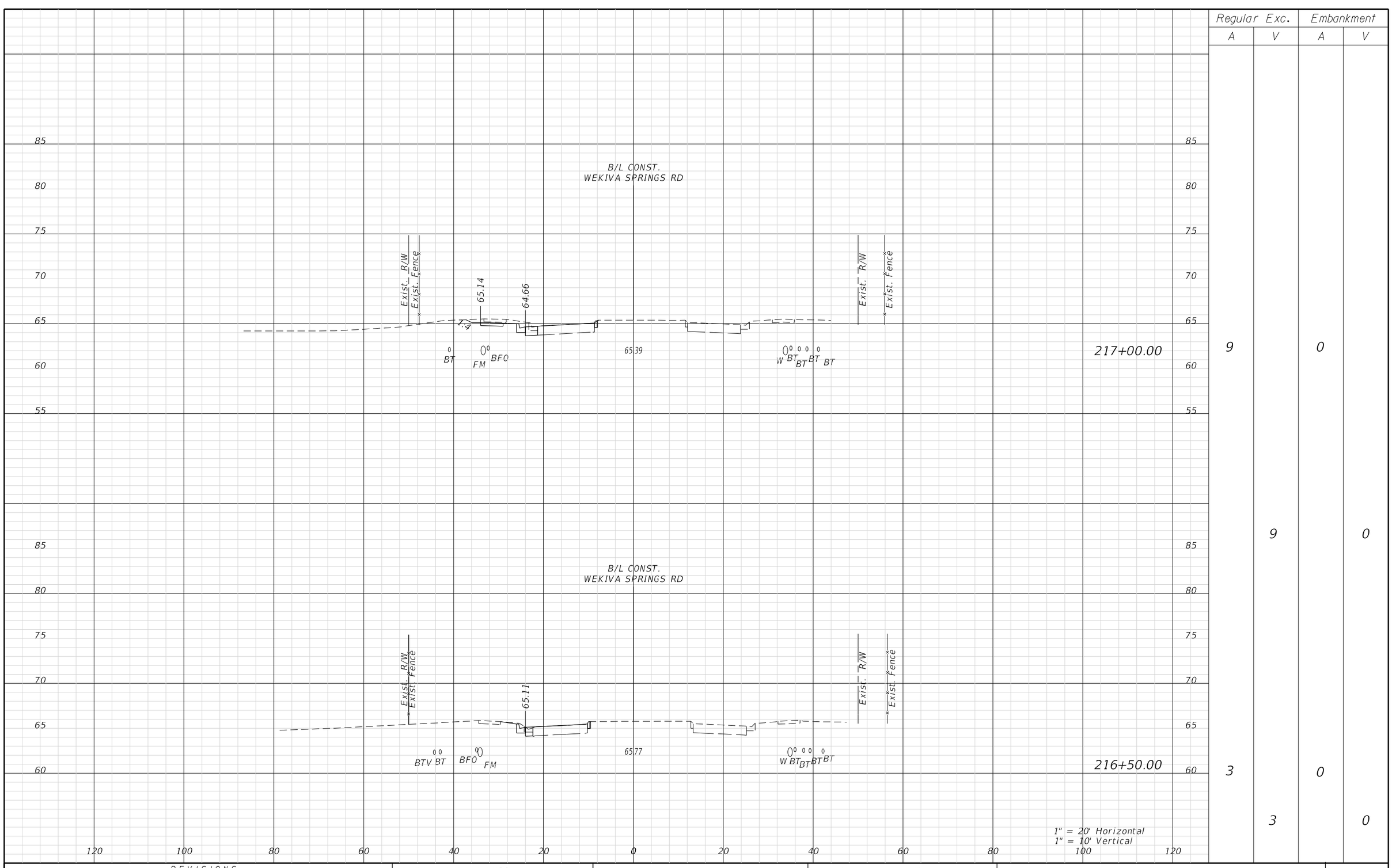

Regular Exc.		Embankment	
A	V	A	V
9		0	
	9		0
3		0	
	3		0

1:20:23 PM

3/29/2022

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REVISIONS		
DATE	BY	DESCRIPTION

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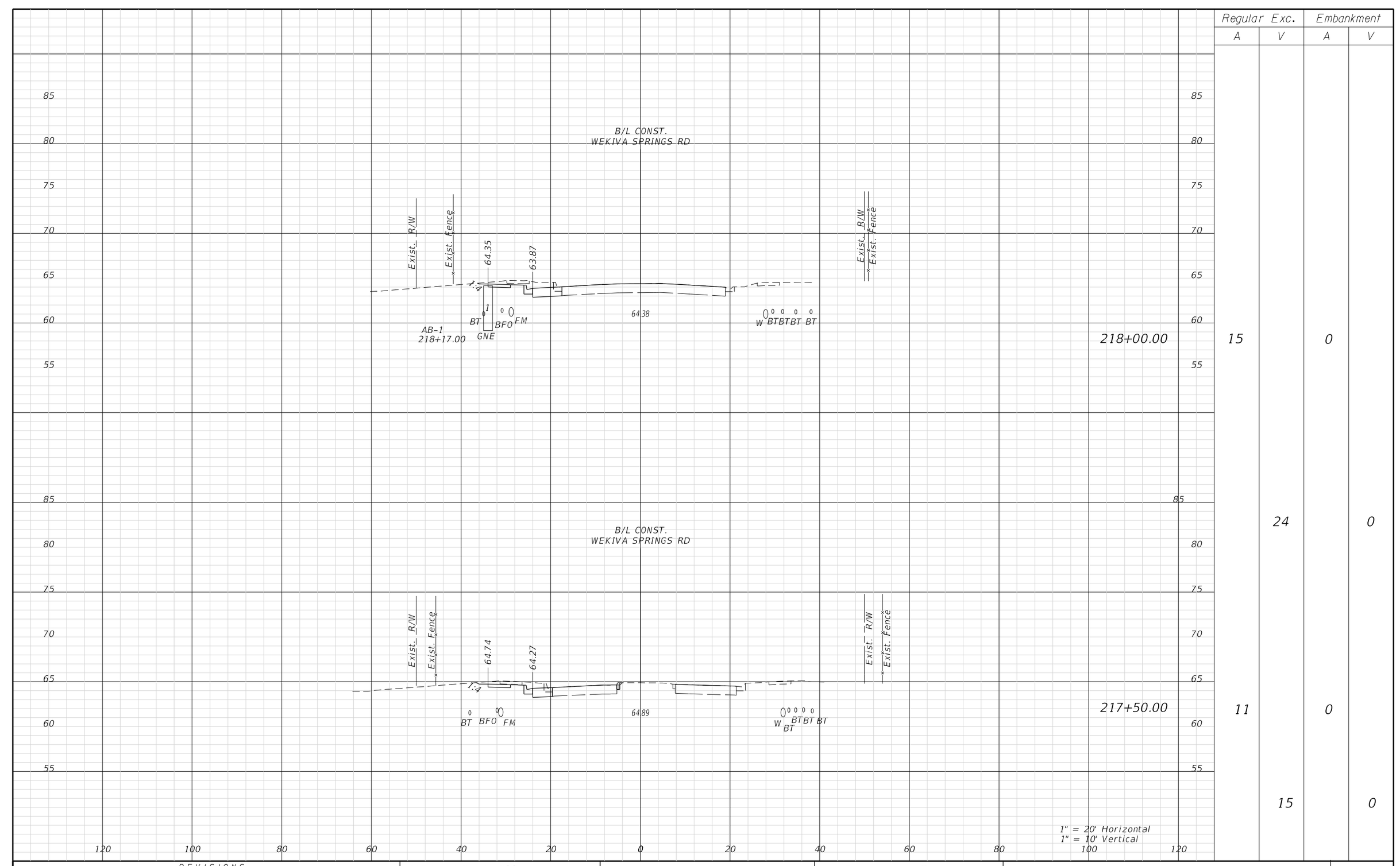
Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 31



	Regular Exc.		Embankment	
	A	V	A	V
218+00.00	15		0	
217+50.00	11		0	
	24		0	
	15		0	

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 32

3/29/2022 1:20:25 PM

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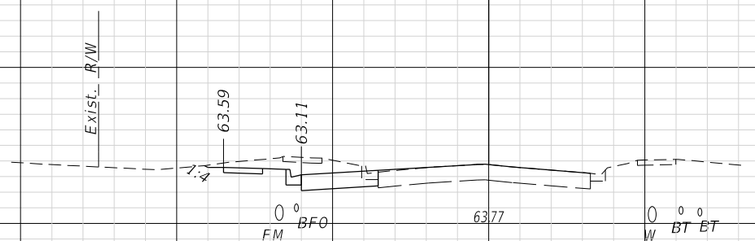
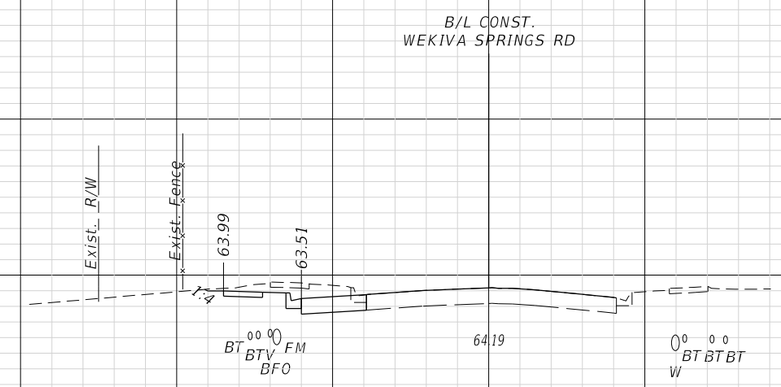




Regular Exc.		Embankment	
A	V	A	V
23		0	
	39		0
19		0	
	32		0

219+00.00

218+50.00

1:20:26 PM

3/29/2022

N:\Projects\SMC20053_Wekiva Springs Road\IIIIIII3\Broadway\RDXSRD01.dgn

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

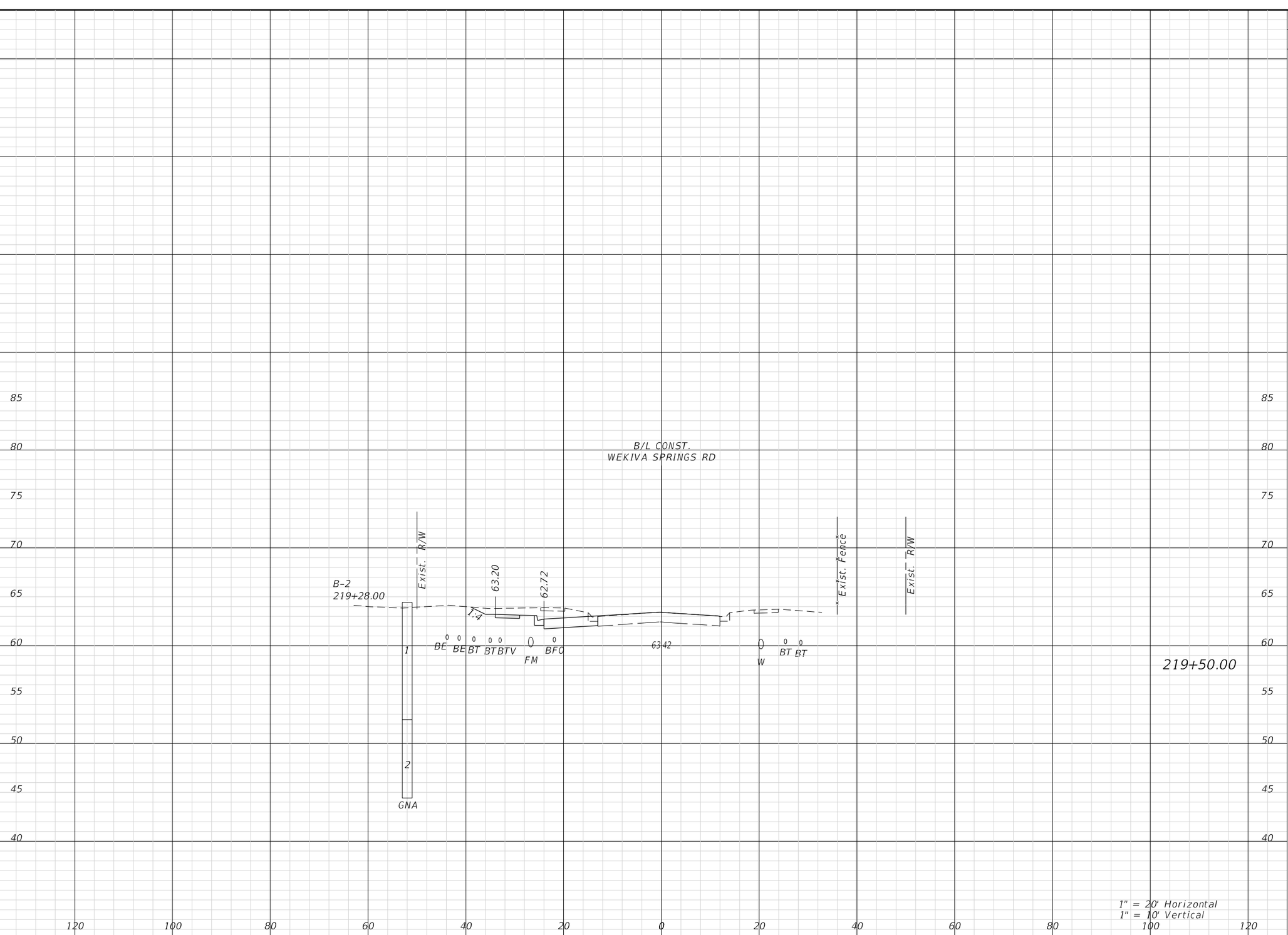
Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 33



Regular Exc.		Embankment	
A	V	A	V
219+50.00	29	0	
	49		0

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

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
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301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

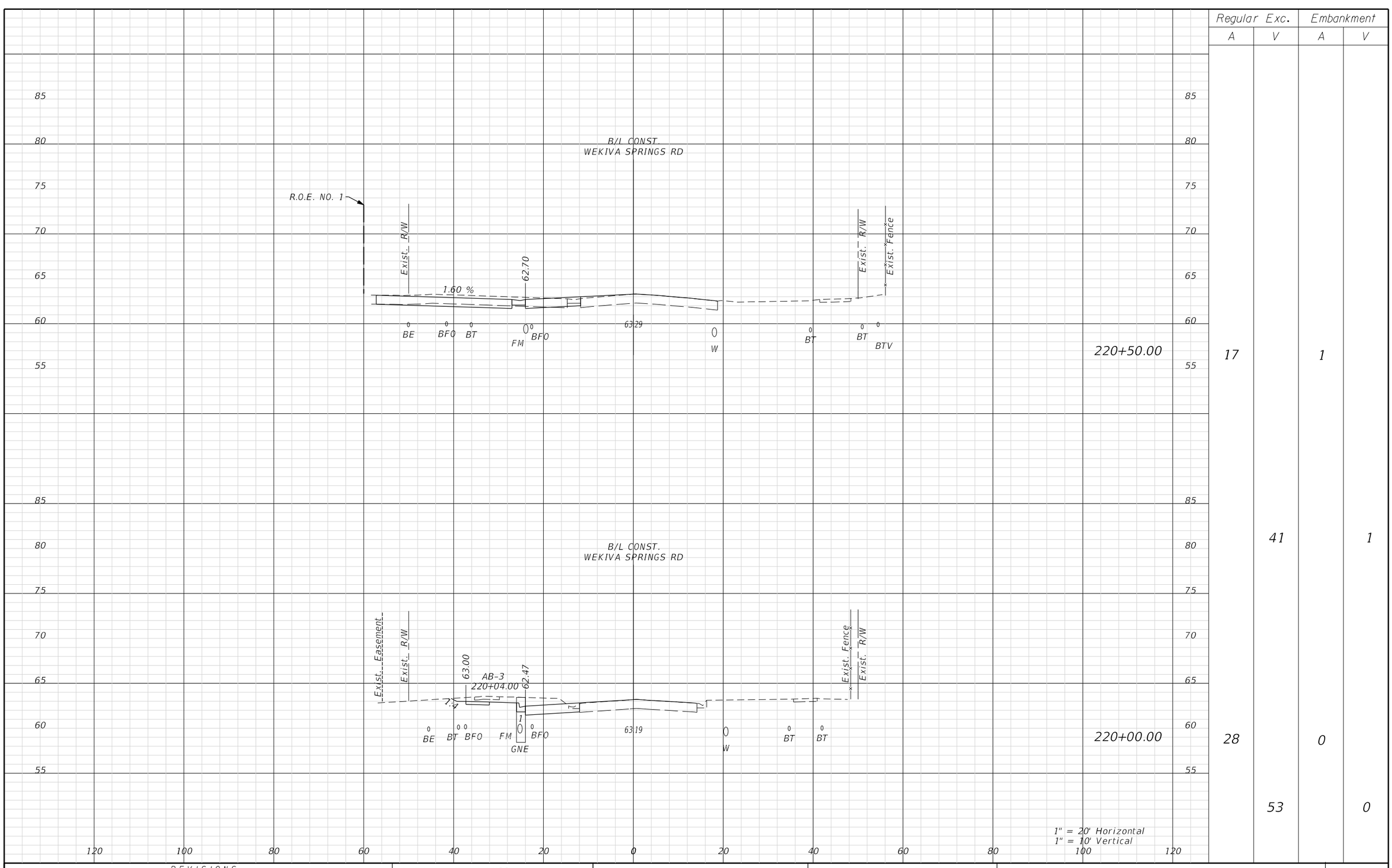
ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 34

3/29/2022 1:20:28 PM

N:\Projects\SMC20053_Wekiva Springs Road\IIIIII318\roadway\RDXSRD01.dgn



Regular Exc.		Embankment	
A	V	A	V
17		1	
41		1	
53		0	

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
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PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

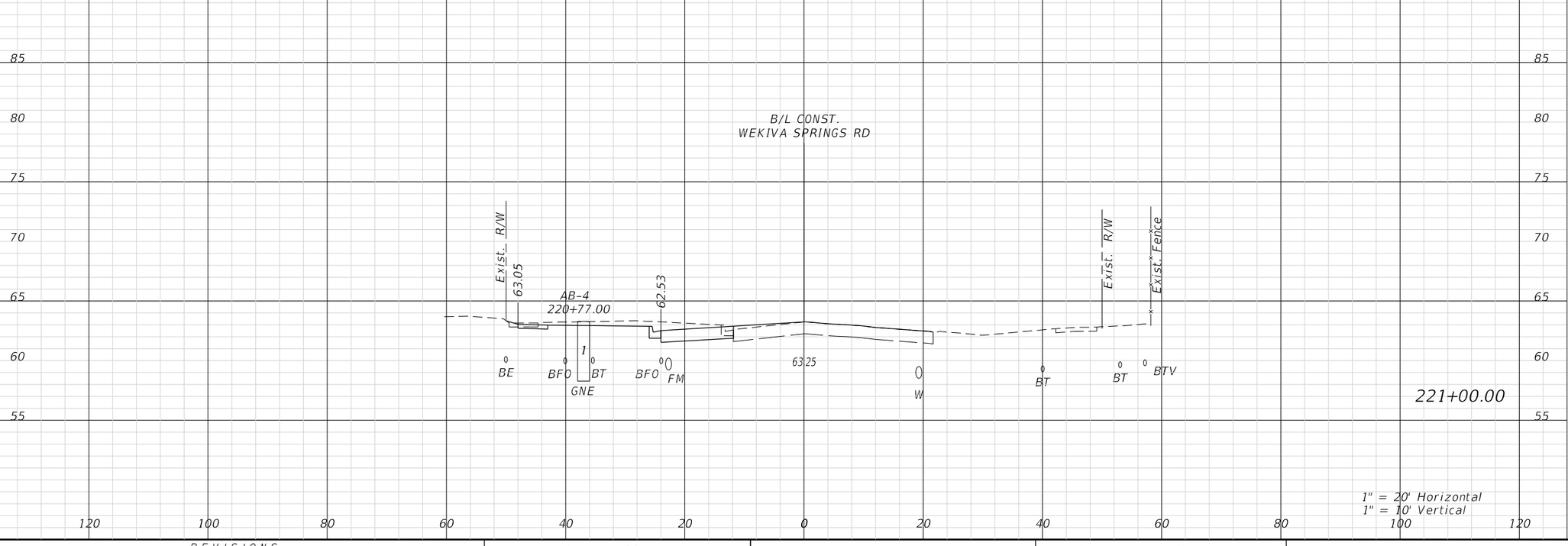
ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 35

1:20:30 PM
3/29/2022
N:\Projects\SMC20053_Wekiva Springs Road\IIIIII3\Roadway\RDXSRD01.dgn

Regular Exc.		Embankment	
A	V	A	V
25	39	1	1



REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
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CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 36

3/29/2022 1:20:31 PM

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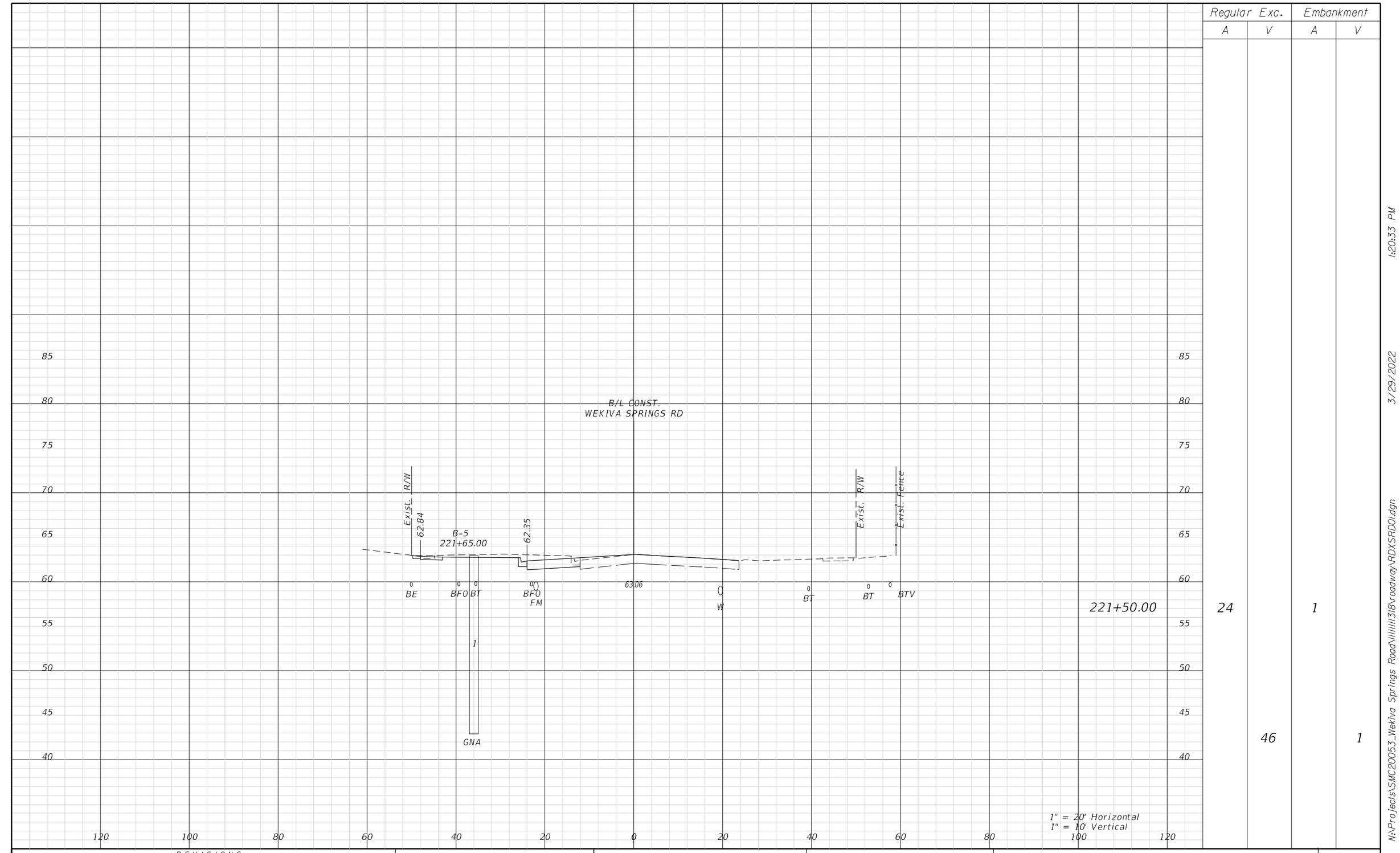

Regular Exc.		Embankment	
A	V	A	V
221+50.00	24	1	
	46		1

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
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PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
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CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 37

3/29/2022 1:20:33 PM

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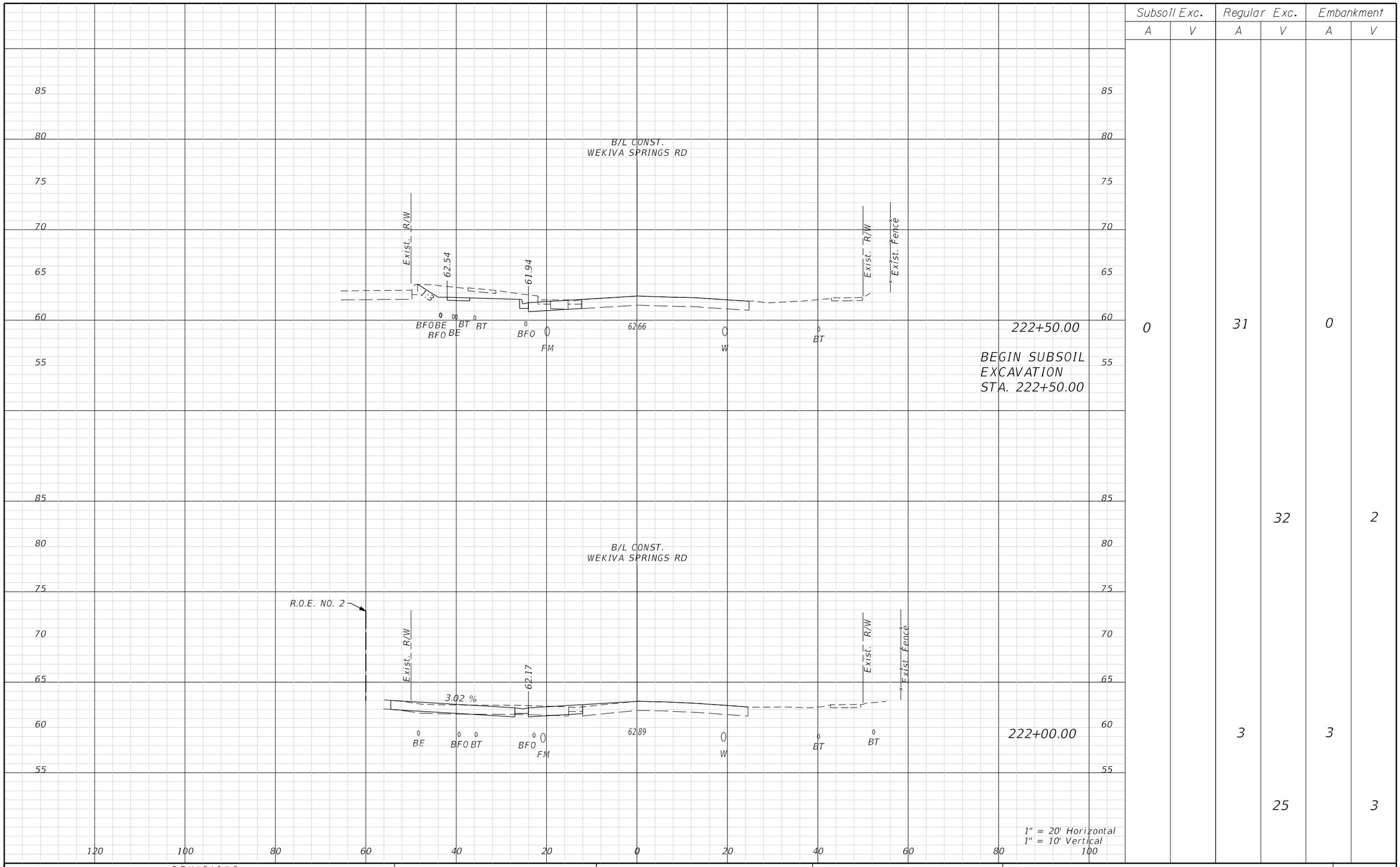

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		31		0	
			32		2
3		3		3	
			25		3

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 38

1:20:35 PM
3/29/2022
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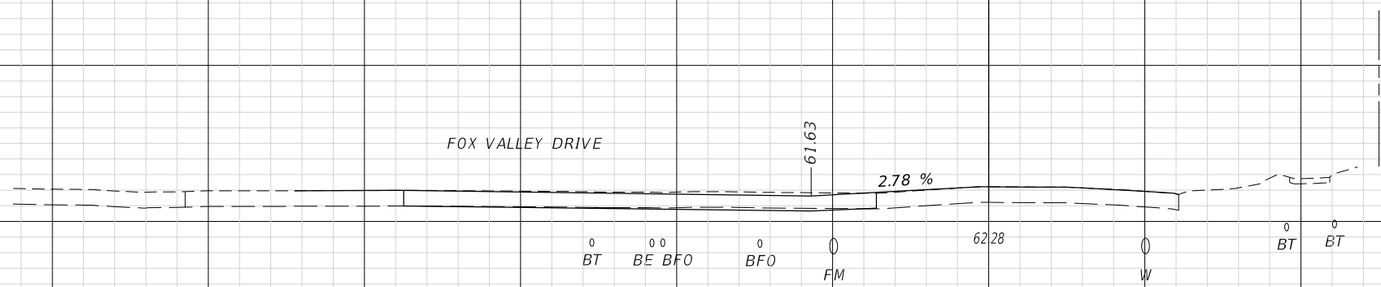
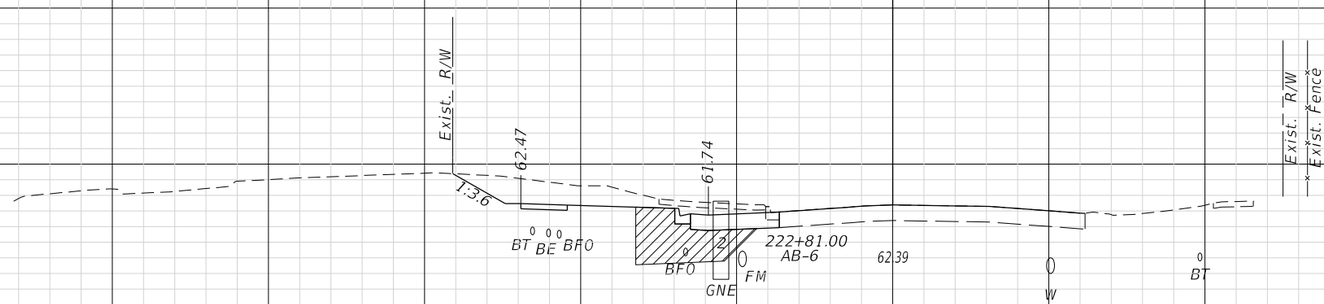


223+50.00

END SUBSOIL EXCAVATION STA. 223+50.00



223+00.00

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		5		1	
	33		50		0
36		49		0	
	33		74		0

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

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
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301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 39

1:20:36 PM 3/29/2022
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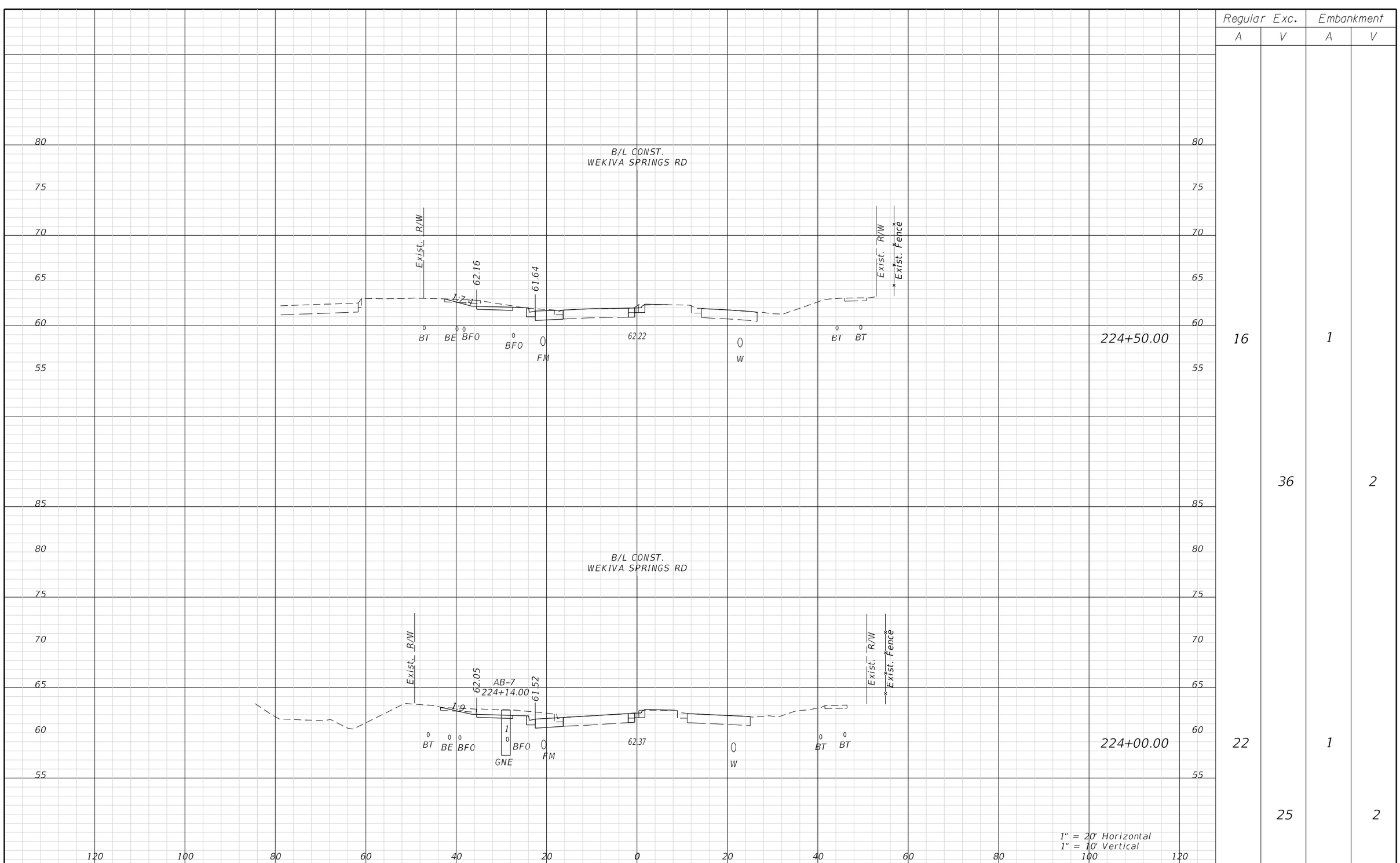


	Regular Exc.		Embankment	
	A	V	A	V
224+50.00	16		1	
		36		2
224+00.00	22		1	
		25		2

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

1:20:38 PM
3/29/2022

N:\Projects\SMC20053_Wekiva Springs Road\IIIIII38\roadway\RDXSRD01.dgn

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

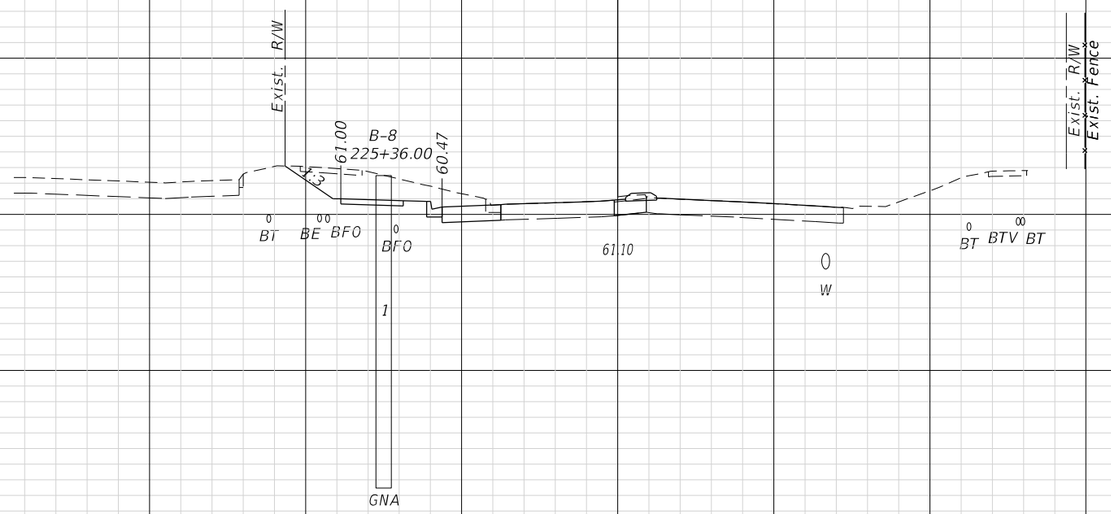
Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

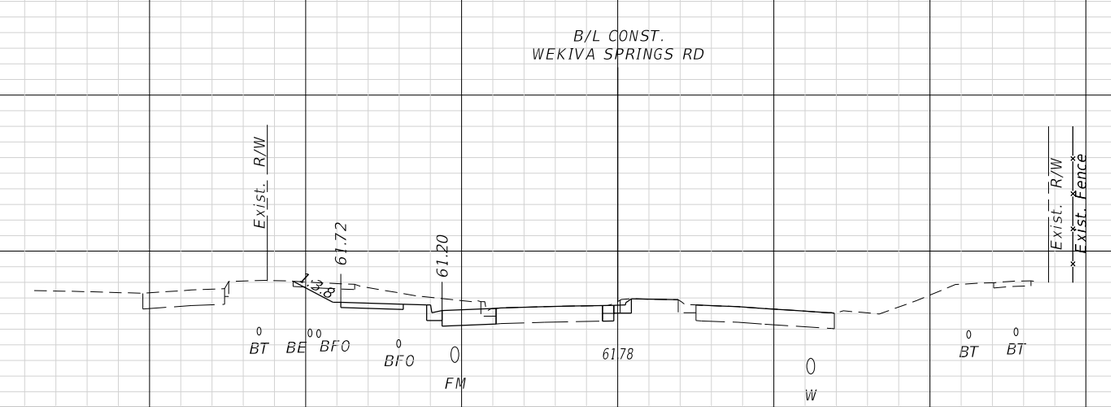
WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 40



Regular Exc.		Embankment	
A	V	A	V
40		0	
	63		1

225+50.00



28		1	
	41		1

225+00.00

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

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 41

1:20:40 PM 3/29/2022

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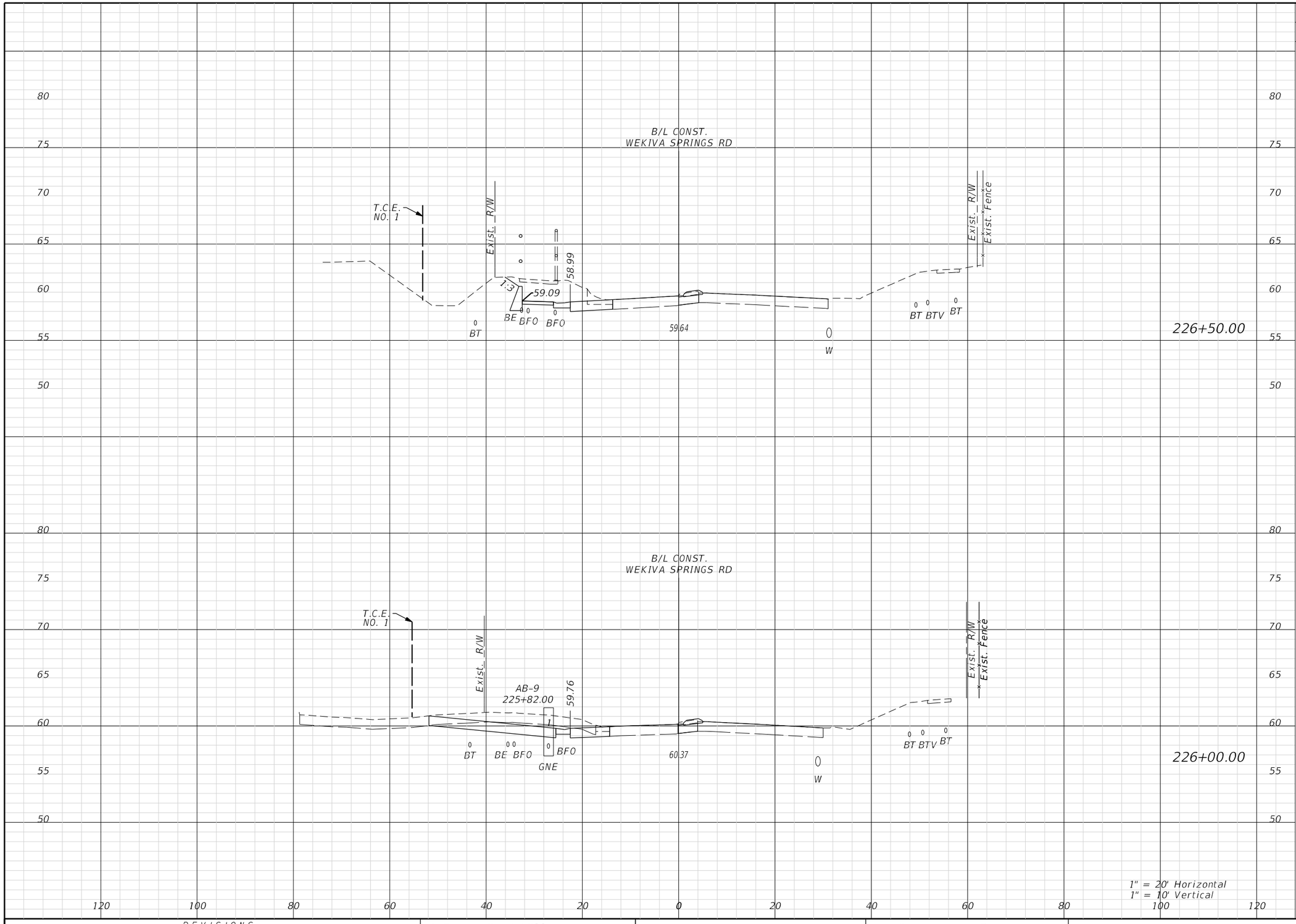

	Regular Exc.		Embankment	
	A	V	A	V
226+50.00	42		0	
		67		0
226+00.00	30		0	
		65		0

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
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301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 42

1:20:41 PM
3/29/2022
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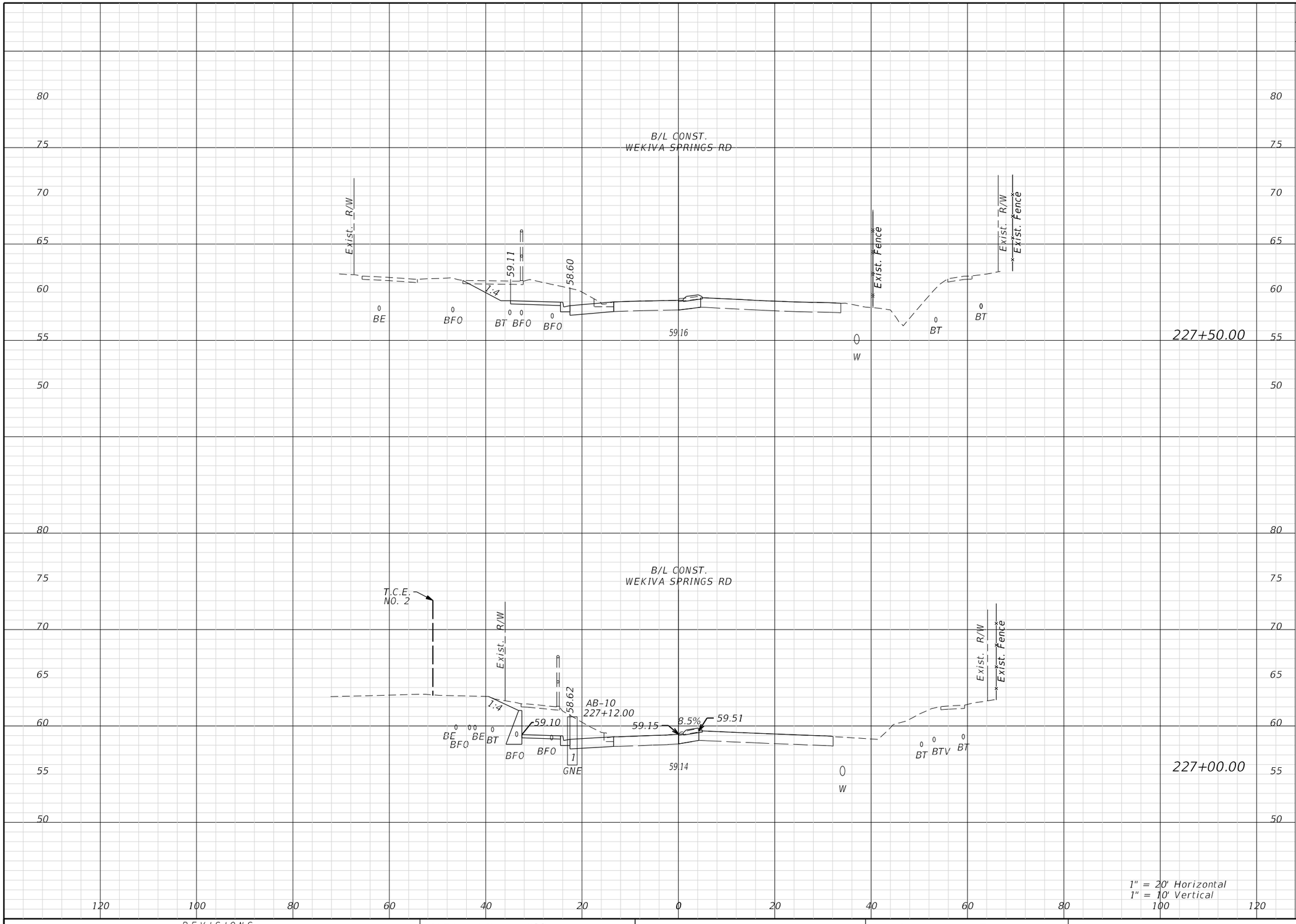


Regular Exc.		Embankment	
A	V	A	V
51		1	
	102		1
59		0	
	94		0

1:20:43 PM
3/29/2022
N:\Projects\SMC20053_Wekiva Springs Road\IIIIIII3\Groadway\RDXSRD01.dgn

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

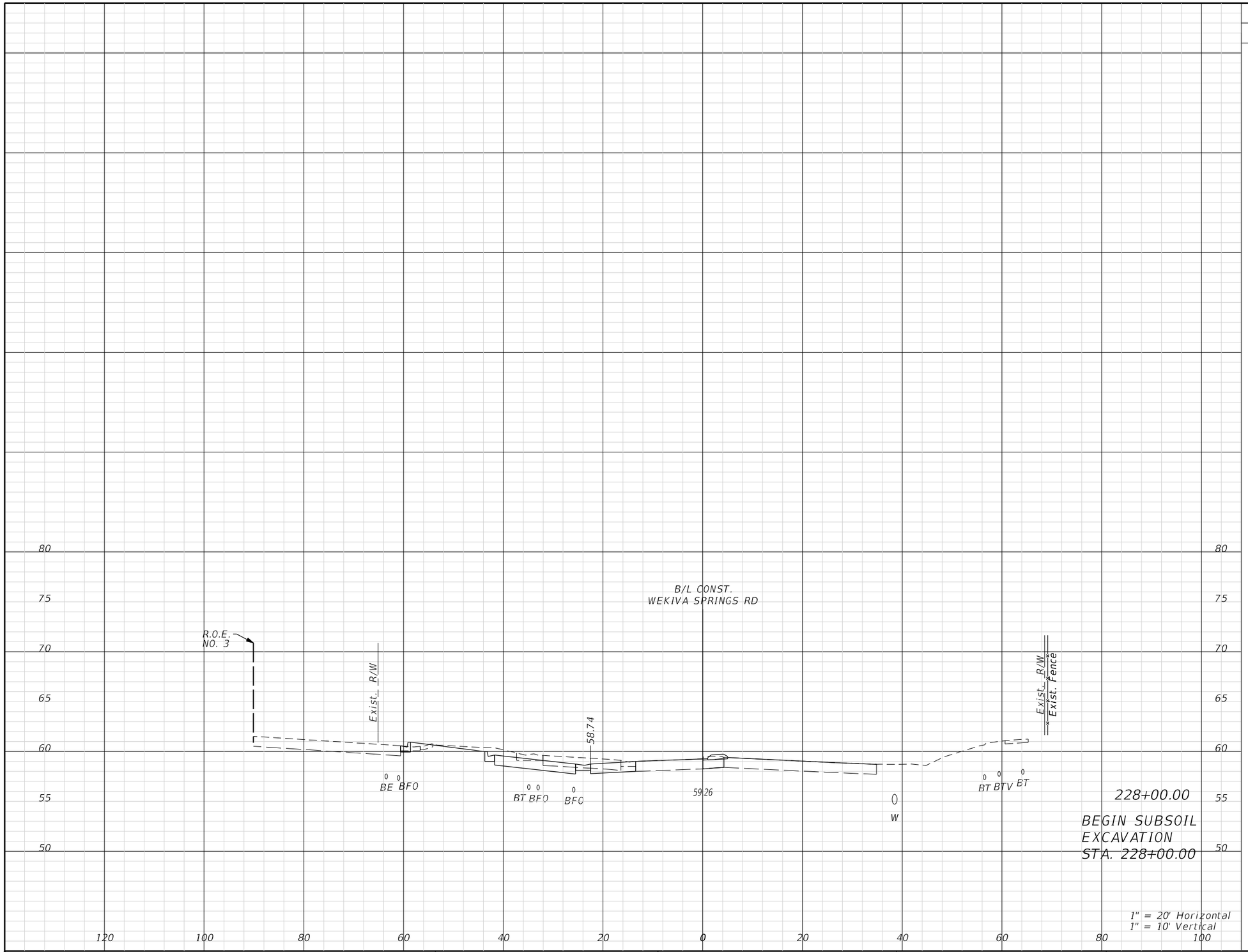
Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 43



Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
	0		23		3
			69		3

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 44

3/29/2022 1:20:45 PM

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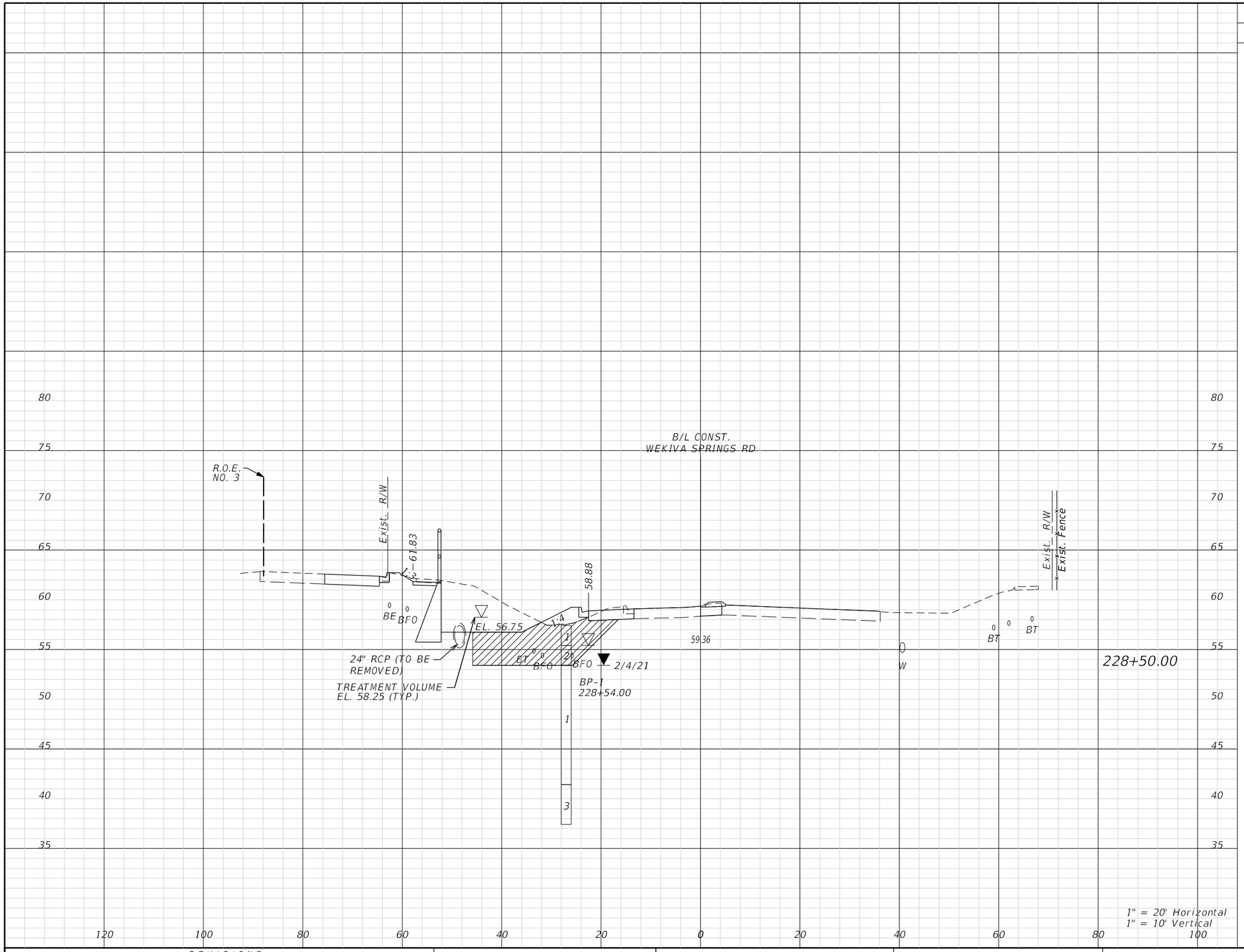

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
228+50.00	94	94		12	
	87		109		14

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

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
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WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO.
45

3/29/2022 1:20:46 PM
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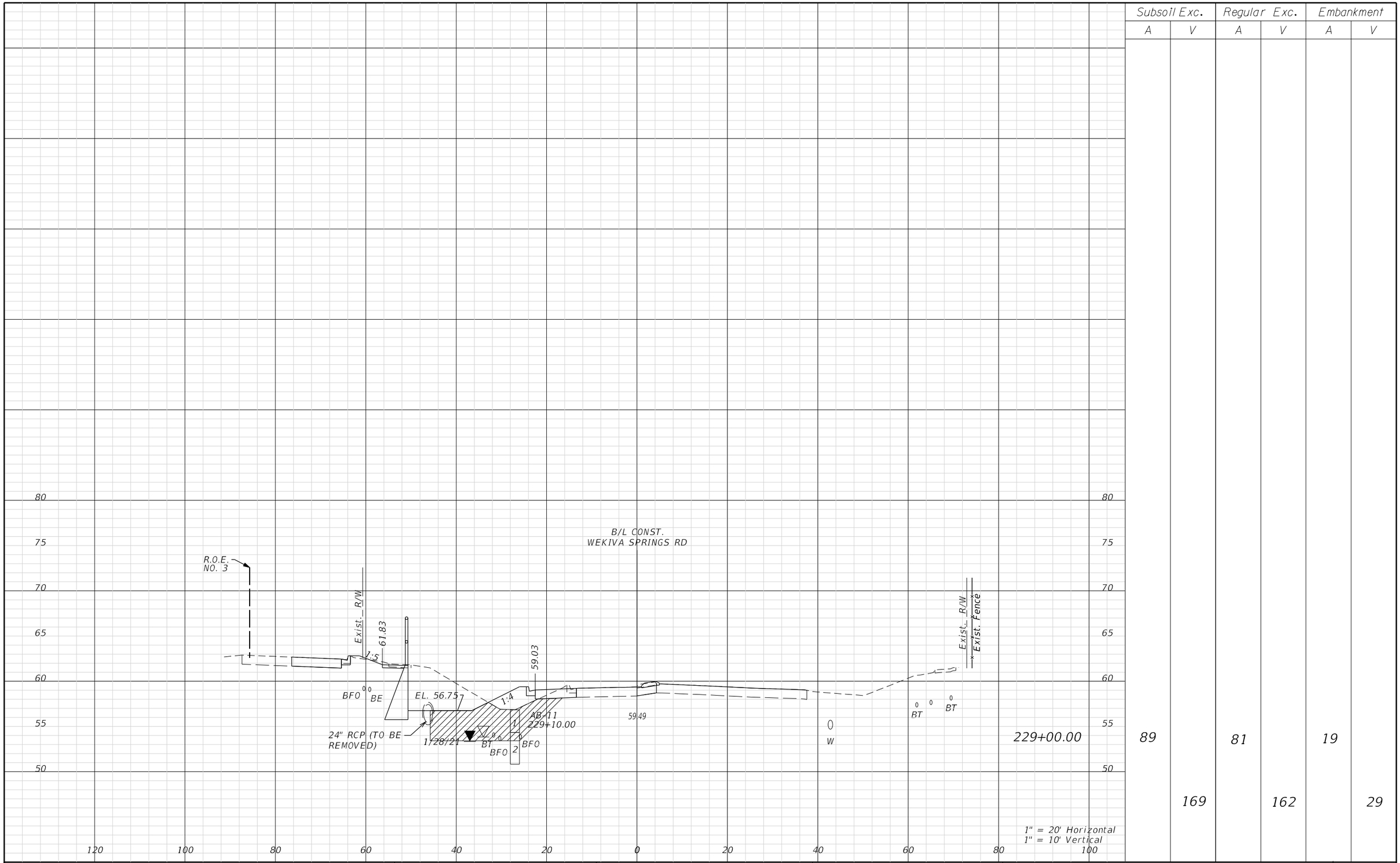

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
229+00.00	89	81	19		
	169	162	29		

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

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 46

3/29/2022 1:20:48 PM

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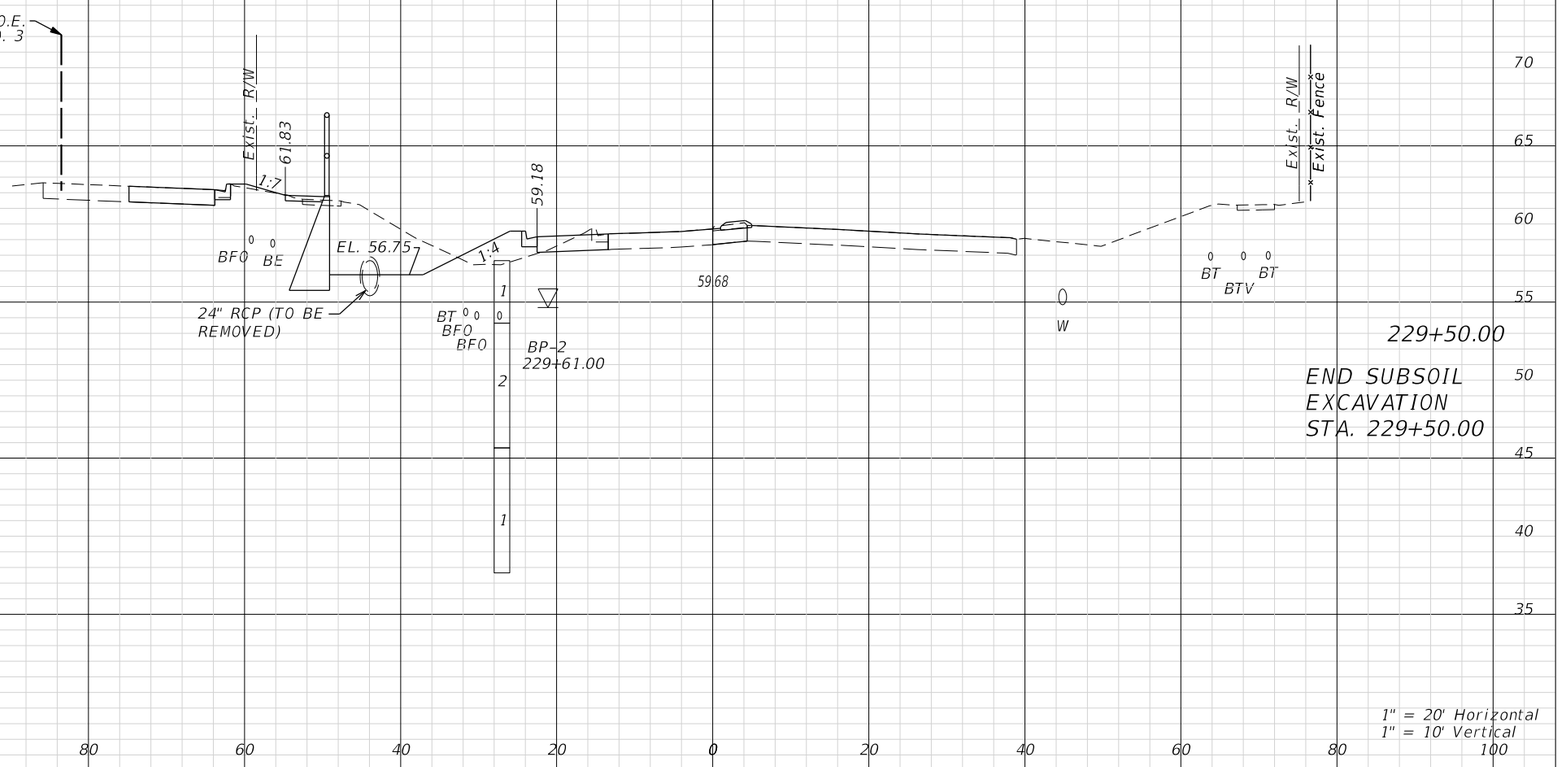

Subsoil Exc.		Regular Exc.		Embankment	
A	V	A	V	A	V
0		73		16	
	82		143		32

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 47

1:20:50 PM 3/29/2022

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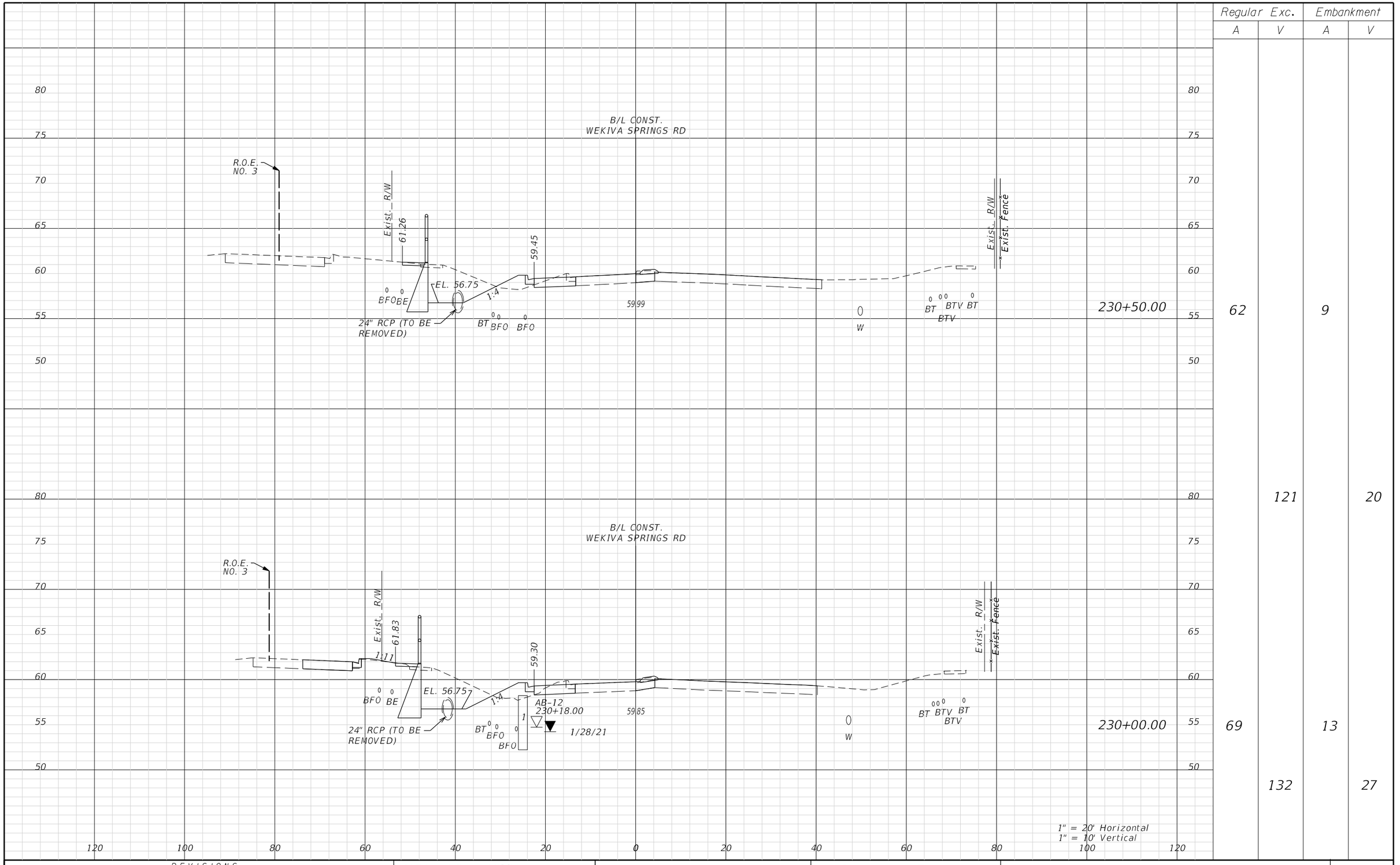


Regular Exc.		Embankment	
A	V	A	V
62		9	
	121		20
69		13	
	132		27

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

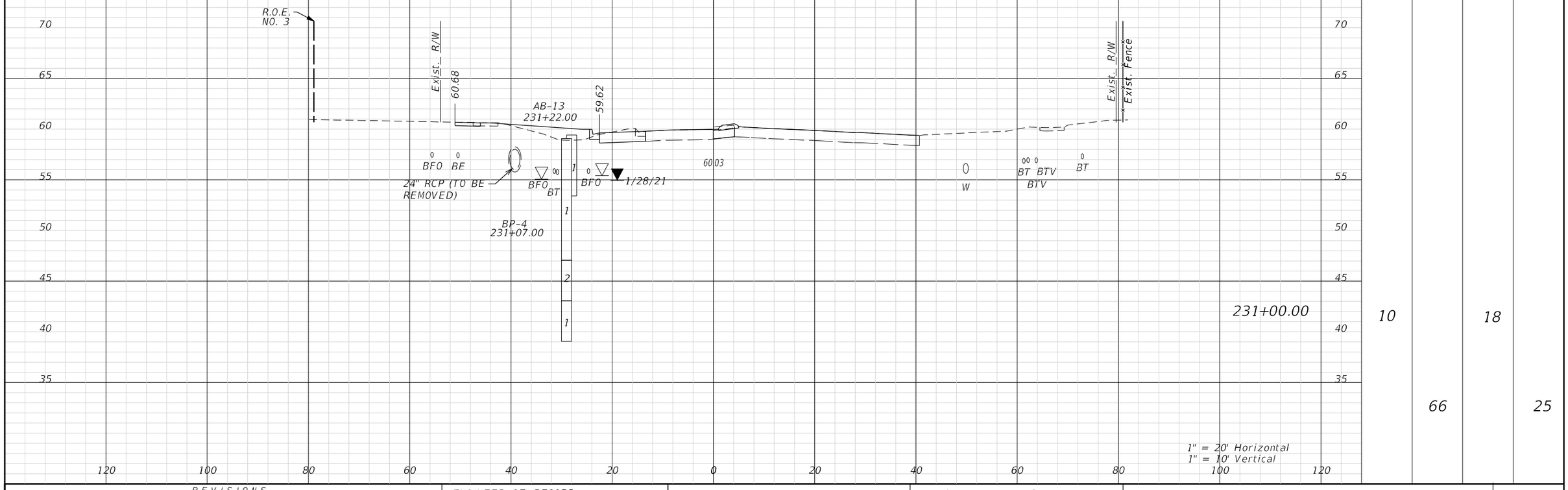
ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 48

1:20:51 PM
3/29/2022
N:\Projects\SMC20053_Wekiva Springs Road\IIIIII3\8\roadway\RDXSRD01.dgn

Regular Exc.		Embankment	
A	V	A	V



10	18	
66	25	

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 49

1:20:53 PM 3/29/2022

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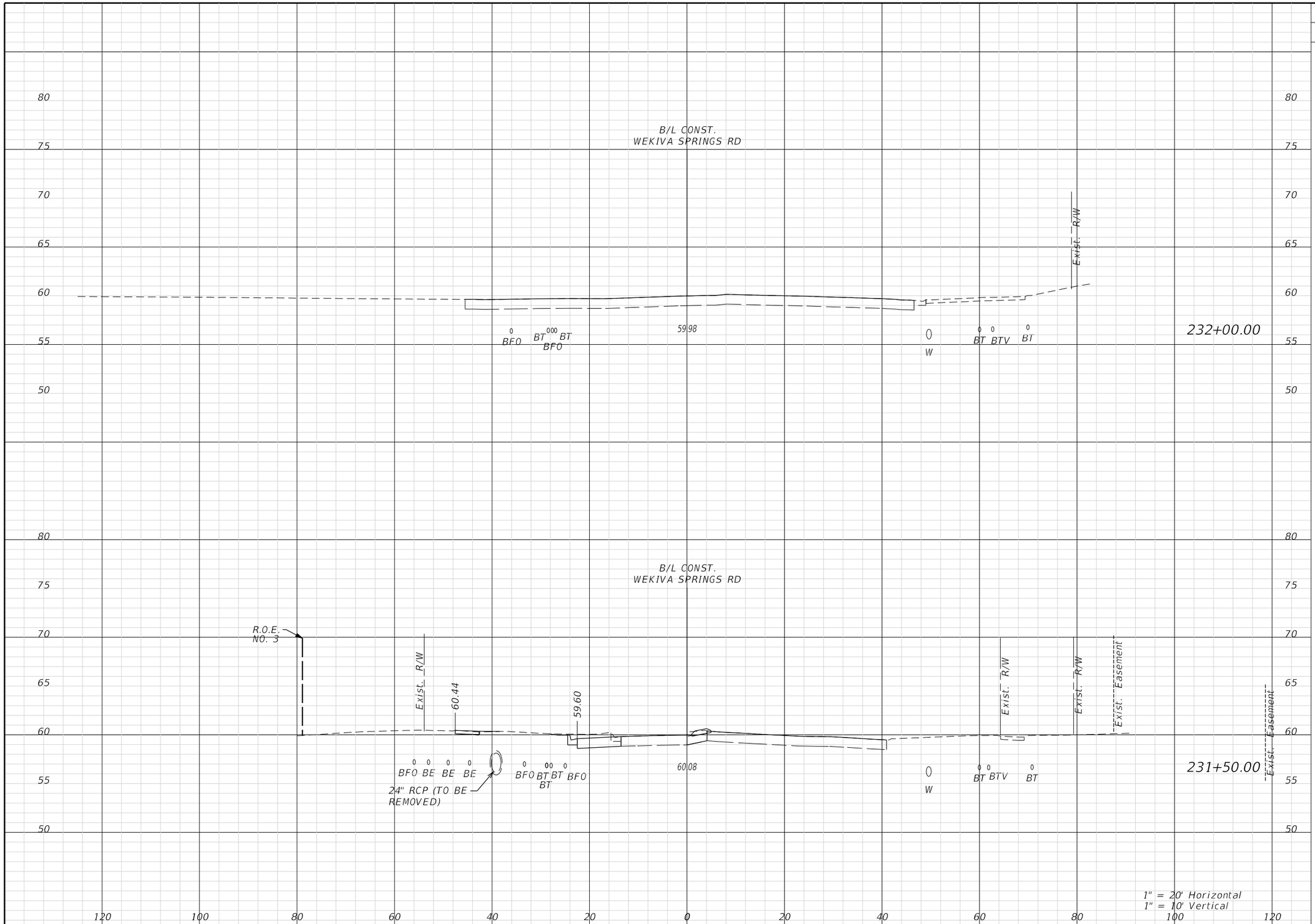


Regular Exc.		Embankment	
A	V	A	V
0		0	
	12		5
13		5	
	21		22

1:20:55 PM
3/29/2022
N:\Projects\SMC20053_Wekiva Springs Road\IIIIII3B\roadway\RDXSRD01.dgn

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

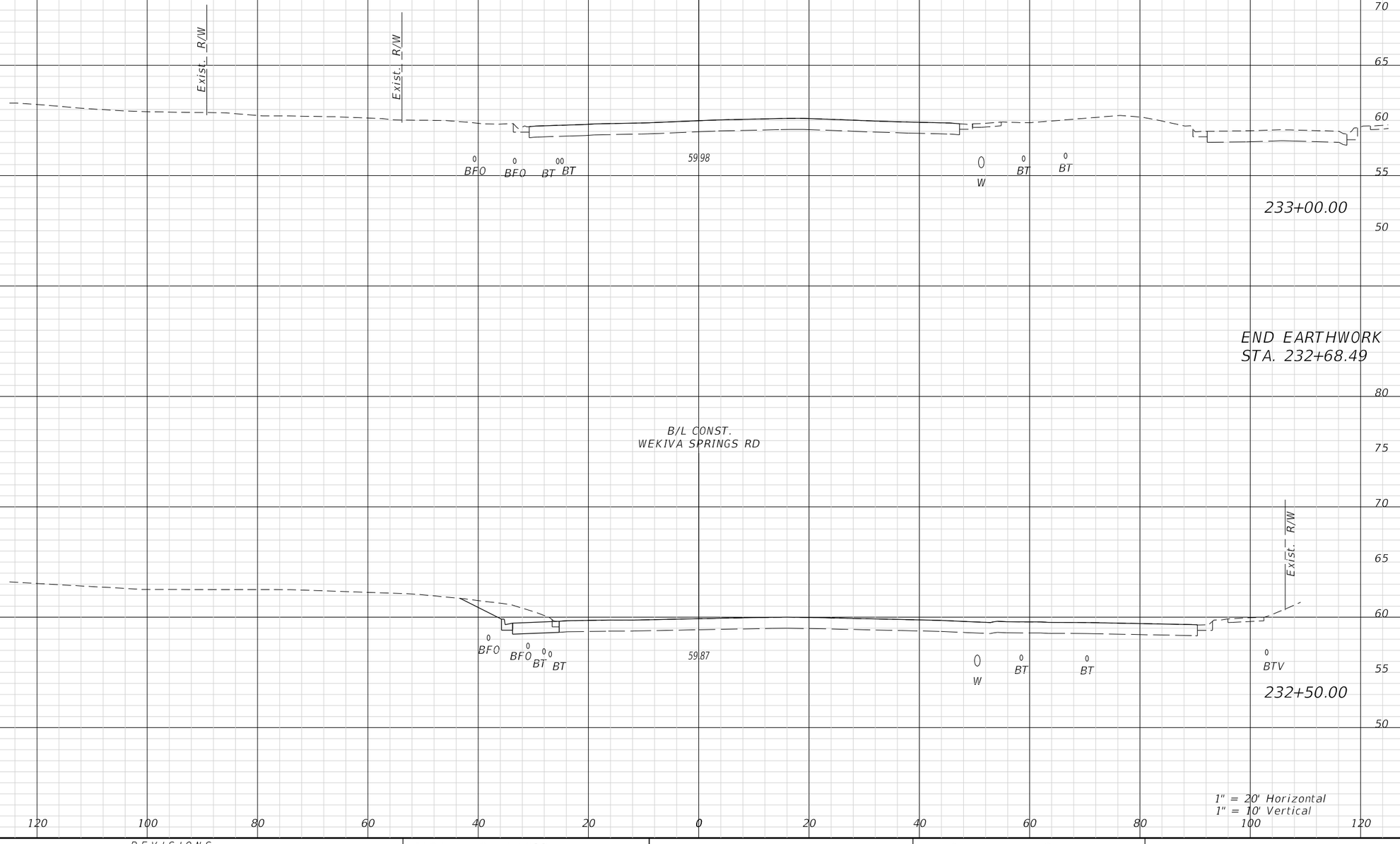
Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 50



Regular Exc.		Embankment	
A	V	A	V
0		0	
	9		0
25		0	
	23		0

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
CROSS SECTIONS

SHEET NO. 51

1:20:57 PM 3/29/2022

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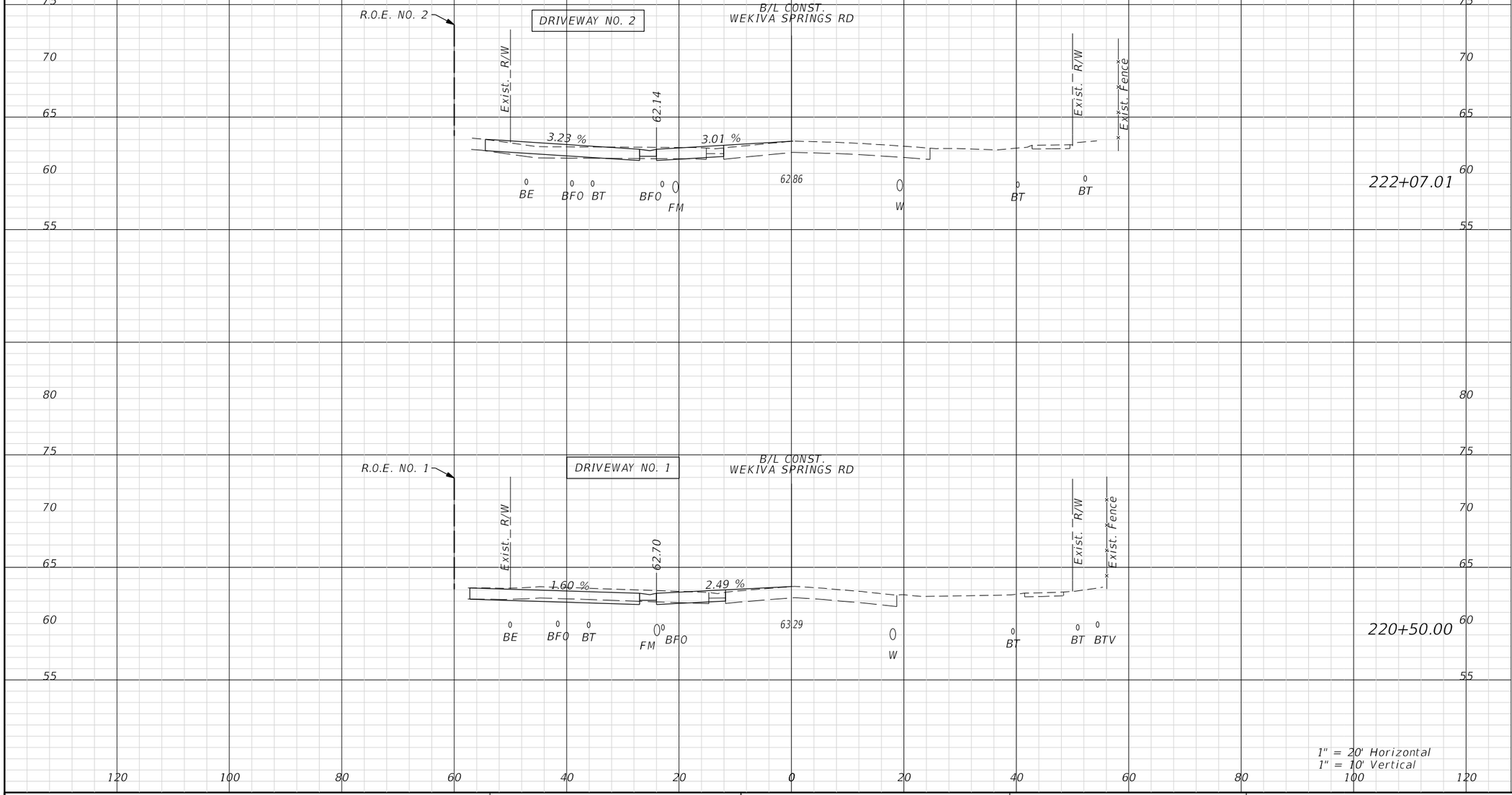
Regular Exc.		Embankment	
A	V	A	V



REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
DRIVEWAY CROSS SECTIONS

SHEET NO. 52

1:20:57 PM
3/29/2022
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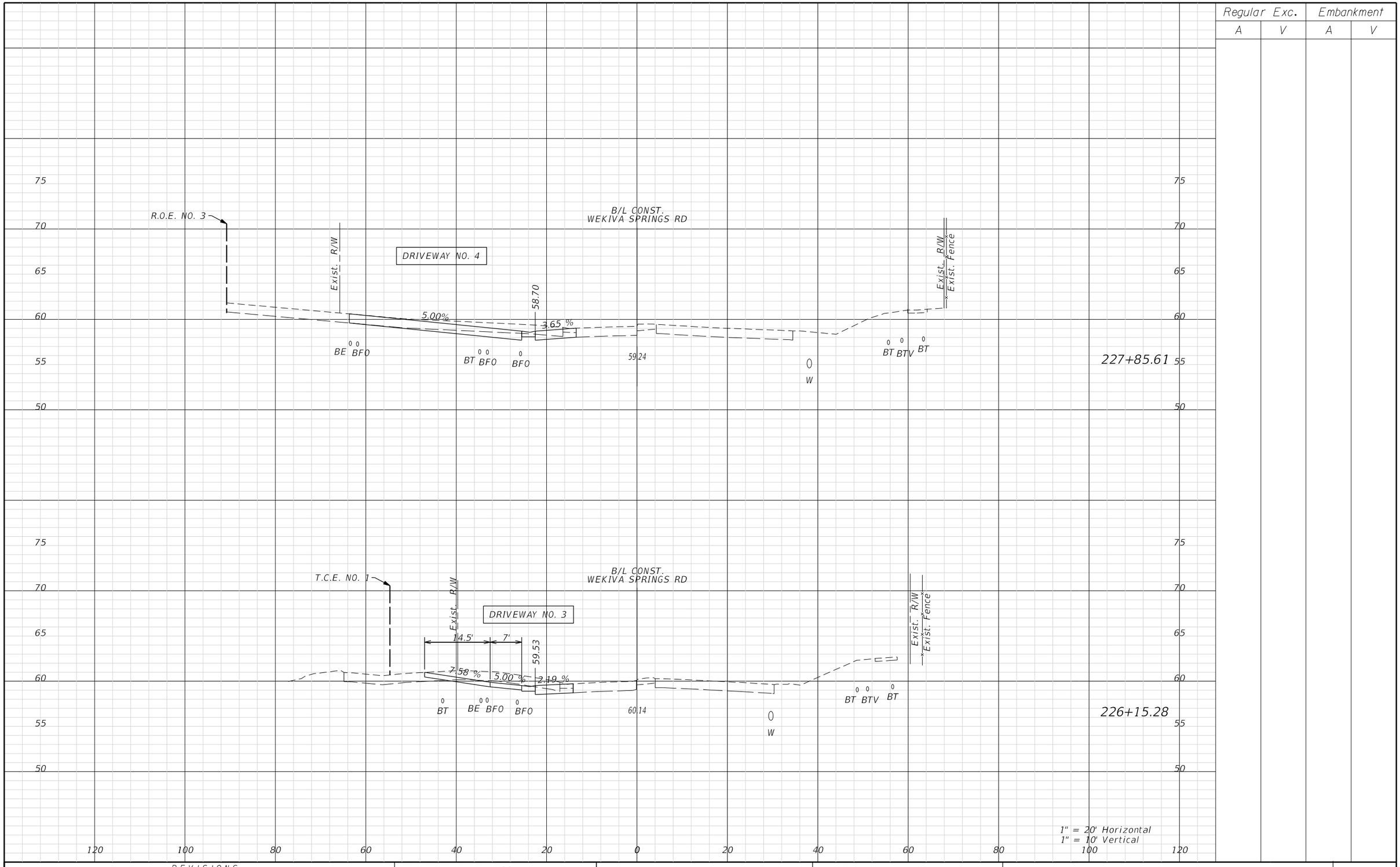
Regular Exc.		Embankment	
A	V	A	V



REVISIONS		
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SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
DRIVEWAY CROSS SECTIONS

SHEET NO. 53

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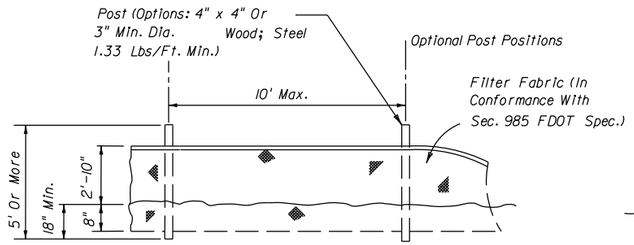
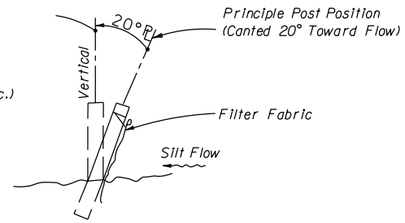
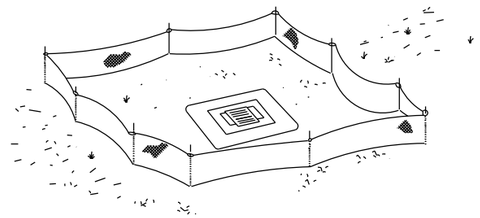


ELEVATION



SECTION

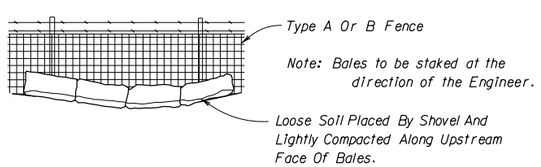
TYPE III SILT FENCE



Type III Silt Fence Protection
Around Ditch Bottom Inlets.

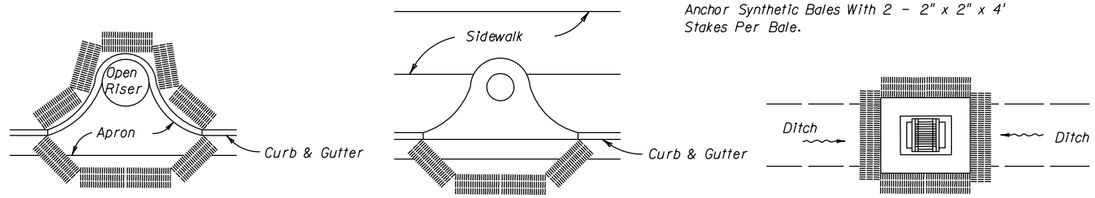
Do not deploy in a manner that silt fences will act as a dam across permanent flowing watercourses. Silt fences are to be used at upland locations and turbidity barriers used at permanent bodies of water.

SILT FENCE APPLICATIONS



GENERAL NOTES

1. THE CONTRACTOR SHALL EXECUTE ALL MEASURES NECESSARY TO LIMIT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT TO THE VOLUME AND AMOUNT THAT ARE EXISTING PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THIS CONDITION WILL BE SATISFIED FOR THE TOTAL ANTICIPATED CONSTRUCTION PERIOD. PROVISION MUST BE MADE TO PRESERVE THE INTEGRITY AND CAPACITY OF CHECK WEIRS, SEDIMENT BASINS, SLOPE DRAINS, GRADING PATTERNS, ETC. REQUIRED TO MEET THIS PROVISION THROUGHOUT THE LIFE OF THE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE SYNTHETIC BALES, SILT BARRIERS, TEMPORARY GRASSING, ETC. AS REQUIRED TO FULLY COMPLY WITH THE INTENT OF THIS SPECIFICATION.
2. NO EXCAVATED MATERIAL SHALL BE STOCKPILED IN SUCH A MANNER AS TO DIRECT RUNOFF DIRECTLY OFF THE PROJECT SITE OR INTO ANY ADJACENT WATER BODY OR STORMWATER COLLECTION FACILITY.
3. THE SURFACE AREA OF OPEN, RAW ERODIBLE SOIL EXPOSED BY CLEARING AND GRUBBING OPERATIONS OR EXCAVATION AND FILLING OPERATIONS SHALL BE CONTROLLED, SO THAT THIS OPERATION WILL NOT SIGNIFICANTLY AFFECT OFF-SITE DEPOSIT OF SEDIMENTS.
4. INLETS AND CATCH BASINS SHALL BE PROTECTED FROM SEDIMENT LADEN STORMWATER RUNOFF UNTIL THE COMPLETION OF ALL CONSTRUCTION OPERATIONS THAT MAY CONTRIBUTE SEDIMENT TO THE INLET. (SEE NOTE 16).
5. AREAS OPENED BY CONSTRUCTION OPERATIONS THAT ARE NOT ANTICIPATED TO BE DRESSED OR RECEIVE FINAL GRASSING TREATMENT WITHIN SEVEN DAYS SHALL BE SEEDED WITH A QUICK GROWING GRASS SPECIES WHICH WILL PROVIDE AN EARLY COVER, DURING THE SEASON IN WHICH IT IS PLANTED. TEMPORARY SEEDING SHALL BE CONTROLLED SO AS TO NOT ALTER OR COMPETE WITH PERMANENT GRASSING. THE RATE OF SEEDING SHALL BE 30 POUNDS PER ACRE.
6. THE SEEDED OR SEEDED AND MULCHED AREA(S) SHALL BE ROLLED AND WATERED AS REQUIRED TO ASSURE OPTIMUM GROWING CONDITONS FOR THE ESTABLISHMENT OF A GOOD GRASS COVER.
7. IF AFTER 14 DAYS, THE TEMPORARY GRASSES AREAS HAVE NOT ATTAINED A MINIMUM OF 75% GOOD GRASS COVER, THE AREA WILL BE REWORKED AND ADDITIONAL SEED APPLIED TO ESTABLISH THE DESIRED VEGETATION COVER.
8. ALL FEATURES OF THE PROJECT SHALL BE CONSTRUCTED TO PREVENT EROSION AND SEDIMENT AND SHALL BE MAINTAINED DURING THE LIFE OF THE CONSTRUCTION SO AS TO FUNCTION PROPERLY WITHOUT THE TRANSPORT OF SEDIMENTS OUTSIDE THE LIMITS OF THE PROJECT.
9. ALL DISTURBED AREAS OUTSIDE THE EXCAVATION AND FILL LIMITS WILL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR CONDITION PRIOR TO CONSTRUCTION.
10. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTENANCE OF ALL NEWLY PLANTED GRASSES OR VEGETATION AND RETENTION/DETENTION FACILITIES UNTIL THE WORK HAS BEEN ACCEPTED BY THE COUNTY.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF EMBANKMENTS AND SHALL REPLACE ANY PORTION, WHICH IN THE OPINION OF THE ENGINEER, HAS BECOME DISPLACED DUE TO EROSION OR DUE TO CARELESSNESS OR NEGLIGENCE ON THE PART OF THE CONTRACTOR.
12. THE CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS CONTROLLING POLLUTION OF THE ENVIRONMENT. MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO CONTROL EROSION AND SEDIMENT RUNOFF FROM THE SITE DURING CONSTRUCTION. SUCH METHODS SHALL BE IN ACCORDANCE WITH THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION STANDARDS.
13. ABSOLUTELY NO WORK WILL BE ALLOWED WITHIN ANY CONSERVATION AREA, BUFFER AREA, MITIGATION AREA OR DESIGNATED WETLAND AREA UNLESS SO SPECIFICALLY DESCRIBED BY THE PLANS AND GRANTED BY REASON OF PERMIT FROM THE GOVERNMENTAL ENTITY HAVING JURISDICTION OVER SAID AREA.
14. PRIOR TO CLEARING AND GRUBBING, THE LIMITS OF WETLANDS, BUFFERS, AND MITIGATION AREAS SHALL BE CLEARLY MARKED ALONG THE PROPOSED RIGHT OF WAY LINE TO PROTECT THESE AREAS FROM ENCROACHMENT FROM CONSTRUCTION ACTIVITIES.
15. ALL FILL EMBANKMENT AND GRADED AREAS SHALL BE PROTECTED AGAINST EROSION BY METHODS STATED IN "SECTION 104," F.D.O.T. STANDARD SPECIFICATIONS FOR BRIDGE AND ROAD CONSTRUCTION. SIDE SLOPE MAY BE SEEDED AND MULCHED, PROVIDED THAT THE MULCH MATERIAL IS DISC HARROWED AND THE SIDE SLOPES ARE NEITHER GREATER THAN 1:3 NOR PART OF A DRAINAGE CONVEYANCE.
16. EROSION CONTROL AT ALL INLET DRAINAGE STRUCTURES DURING CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH SECTION 104 PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION.



PARTIAL INLET COMPLETED INLET DITCH BOTTOM INLET

PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

REVISIONS		
DATE	BY	DESCRIPTION

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CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
EROSION CONTROL DETAILS

SHEET NO. 54

N.P.D.E.S. STORMWATER POLLUTION PREVENTION PLAN
FOR CONSTRUCTION ACTIVITIES

The Contractor shall prepare and provide Seminole County with a special plan for the prevention, control, and abatement of erosion and water pollution. The Contractor shall pay all permitting fees. (To be included under pay item 104-14)

This plan shall be prepared in accordance with the general requirements and/or any special conditions of all permits which authorize the construction of the project. In the event there are no permits required to construct the project, or they do not contain special conditions relating to erosion and water pollution, the project Stormwater Pollution Plan (SWPPP) for Construction Activities shall be governed by Florida Department of Transportation Standards Specifications for Road and Bridge Construction (2018), Subarticles 7-1.1, 7-2.2, 7-8.2, and Articles 104.1 through 104.9.

When a National Pollution Discharge Elimination System (N.P.D.E.S.) Permit has been issued or approved for the project by the FDEP. The Contractor's SWPPP will include the Erosion Control and Stormwater Management Plan during construction and all additional measures he will employ to dispose of, control, or otherwise prevent the discharge of solid, hazardous, and sanitary wastes to waters of the U.S. Procedures to control off-site tracking and spilling of soil by vehicles and construction shall also be included. The Contractor shall include a procedure for cleanup and reporting of non-storm water discharges such as contaminated ground water and accidental spills of contaminants. The Contractor's part of the SWPPP, including required signed certification statements, shall be furnished to and approved by Seminole County prior to initiating any soil disturbing activities.

The SWPPP for Construction Activities shall be prepared in accordance with the format and guidelines set forth in the EPA Document Number 833-R-06-004 dated May 2007, titled 'Developing Your Stormwater Pollution Prevention Plan' provisions of Section 403.0885, Florida Statutes, and applicable rules of the Florida Administrative Code. Construction activities that disturb five or more acres of land area are considered industrial activities under 40 CFR Part 122.26 (b) (14). This permit constitutes authorization to discharge stormwater associated with industrial activity to surface waters under the NPDES. Under the State of Florida's authority to administer the NPDES Stormwater program at 403.0885, F. S., operators that have stormwater discharge associated with large or small construction activities to surface waters of the State, including through a Municipal Separate Storm Sewer System (MSA), must obtain coverage either under a Notice of Intent (NOI) Generic Permit issued pursuant to Chapter 62-621, F.A.C., or an individual permit issued pursuant to Chapter 62-620, F.A.C. The SWPPP for Construction Activities shall describe, but not be limited to, the following items or activities.

(1) For each phase of construction operations or activities, the Contractor shall supply the following information:

- (A) Locations of all erosion control devices.
- (B) Types of all erosion control devices.
- (C) Estimated length erosion control devices will be in operation.
- (D) Monitoring schedules for maintenance of erosion control devices.
- (E) Method of maintaining erosion control devices.
- (F) Methods of containment or removal of pollutants or hazardous wastes.

(2) The Contractor shall furnish Seminole County with the name and telephone number of the person who will be responsible for monitoring and maintaining the erosion control devices. The person who is performing the inspections is to be a qualified inspector (a person who is certified through the DEP Stormwater, Erosion, and Sedimentation Control Inspector Training Program). Inspections are to occur at least once every seven calendar days and within 24 hours of the end of a storm that is 0.50 inches or greater.

(3) The Contractor shall submit a copy of his SWPPP for Construction Activities to Seminole County for their review and approval on or before the project preconstruction meeting. No construction activities shall commence until: 1.) the SWPPP for Construction Activities has been reviewed and approval received from Seminole County. 2.) Notice of Intent shall be submitted to the FDEP 48 hours prior to construction activities. The Contractor shall submit two (2) copies of the approved SWPPP for Construction Activities to Seminole County and one (1) copy of the approved SWPPP for Construction Activities to the St. John's River Water Management District, 601 Lake Destiny Drive #200, Maitland, FL 32751.

(4) The Contractor shall be responsible for implementing, monitoring and modifying the SWPPP for Construction Activities to meet changing project site conditions.

(5) The Contractor shall maintain a copy of the approved SWPPP for Construction Activities at a central location on the project site at all times and be responsible for compliance with the approved SWPPP for Construction Activities. The Contractor shall prepare and submit all annual reports required by permit.

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
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PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
STORMWATER POLLUTION PREVENTION PLAN

SHEET NO. 55

3/29/2022 1:20:58 PM
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TEMPORARY TRAFFIC CONTROL PLANS GENERAL NOTES

1. THE EXISTING POSTED SPEED LIMIT OF 35 MPH SHALL BE REDUCED TO 30 MPH DURING CONSTRUCTION.
2. NOTIFY ADJACENT PROPERTY OWNERS 96 HOURS IN ADVANCE OF CONSTRUCTION ACTIVITIES WHICH RESTRICT ACCESS, DELIVERY, ETC. TO PRIVATE OR COMMERCIAL PROPERTIES, AND SHALL PROVIDE REASONABLE SAFE DIRECT ACCESS.
3. DURING CONSTRUCTION, TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST PUBLISHED EDITION, PART VI & FDOT STANDARD PLANS, 2021-22 EDITION, INDEX 102-600 SERIES AT ALL TIMES. THE CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS TO RESIDENCES AND BUSINESSES AT ALL TIMES.
4. WORK HOURS ARE FROM 8:00 AM TO 4:00 PM MONDAY TO FRIDAY. WORK WILL NOT BE ALLOWED ON WEEKENDS OR HOLIDAYS OBSERVED BY SEMINOLE COUNTY UNLESS WRITTEN PERMISSION IS OBTAINED FROM THE COUNTY ENGINEER OR HIS DESIGNEE.

LANE CLOSURE NOTES

1. LANE CLOSURE HOURS SHALL BE RESTRICTED AS FOLLOWS:
   NO LANE CLOSURES BETWEEN 6:00 AM TO 10:00 PM.
2. ALL LANES SHALL BE OPEN TO TRAFFIC WHEN WORK IS NOT ACTIVELY IN PROGRESS.
3. NOTIFY ALL EMERGENCY / RESCUE AGENCIES LOCATED IN THE PROJECT VICINITY 48 HOURS IN ADVANCE OF ANY PROPOSED LANE CLOSURES OR RESTRICTIONS.

PORTABLE CHANGEABLE MESSAGE SIGNS

PRIOR TO CONSTRUCTION

TO BE INSTALLED 7 DAYS PRIOR TO CONSTRUCTION

MESSAGE 1	MESSAGE 2
ROAD	BEGINS
WORK	DATE
WK.SP.RD	

DURING CONSTRUCTION

MESSAGE 1	MESSAGE 2
ROAD	CAUTION
WORK	CAUTION
WK.SP.RD	CAUTION

TEMPORARY TRAFFIC CONTROL PLANS CONSTRUCTION SEQUENCE

PHASE I

1. PLACE APPROACH SIGNAGE, PORTABLE CHANGEABLE MESSAGE SIGNS, AND CHANNELIZING DEVICES UTILIZING FDOT STANDARD PLANS.
2. CONSTRUCT TEMPORARY PAVEMENT AND RE-STRIPE THE EXISTING ROAD.
3. INSTALL TEMPORARY LOW PROFILE CURB AND SHIFT TRAFFIC.

PHASE II

1. CONSTRUCT PROPOSED DRAINAGE INLETS AND PIPES.
2. IMPLEMENT THE TRAFFIC DETOUR (SEE SHEET 60) TO CONSTRUCT THE DRAINAGE PIPE CROSSING AND SIDE STREET CONNECTION AT FOX VALLEY DR DURING PERIODS WHEN SCHOOL IS NOT IN SESSION.
3. CONSTRUCT THE SIDEWALKS AND CURB CUT RAMPS AT THE INTERSECTIONS OF OF FOX VALLEY DR. AND SABAL PALM DR. DURING PERIODS WHEN SCHOOL IS NOT IN SESSION.
4. IMPLEMENT PEDESTRIAN DETOUR NO. 1 PLAN (SEE SHEET 61). CONSTRUCT PROPOSED PAVEMENT WIDENING, GRAVITY WALLS AND SIDEWALK ALONG THE ACCESS SCHOOL ROAD. RECONSTRUCT SCHOOL ACCESS ROAD AND CURBING (SEE SHEET 61 FOR CLOSURE DETAIL)
5. IMPLEMENT PEDESTRIAN DETOUR NO. 2 (SEE SHEET 62). CONSTRUCT PROPOSED PAVEMENT WIDENING, GRAVITY WALLS AND SIDEWALK BETWEEN FOX VALLEY DR. AND THE SCHOOL ACCESS ROAD DRIVEWAY.
6. CONSTRUCT SIGNALIZATION IMPROVEMENTS.

PHASE III

1. SHIFT TRAFFIC TO NORTHBOUND LANE. RECONSTRUCT TRAFFIC SEPARATOR AND CURB AND GUTTER.

PHASE IV

1. MILL AND RESURFACE THE EXISTING ROADWAY EXCLUDING THE FRICTION COURSE.

PHASE V

1. CONSTRUCT THE FRICTION COURSE.
2. INSTALL PROPOSED SIGNAGE AND PERMANENT PAVEMENT MARKINGS.

TEMPORARY PAVEMENT DESIGN

STANDARD COMPACTION WITH
BASE GROUP 1 (TYPE B-12.5 ONLY) (4") AND
TYPE SP-12.5 STRUCTURAL COURSE (2.00") TRAFFIC C

REVISIONS		
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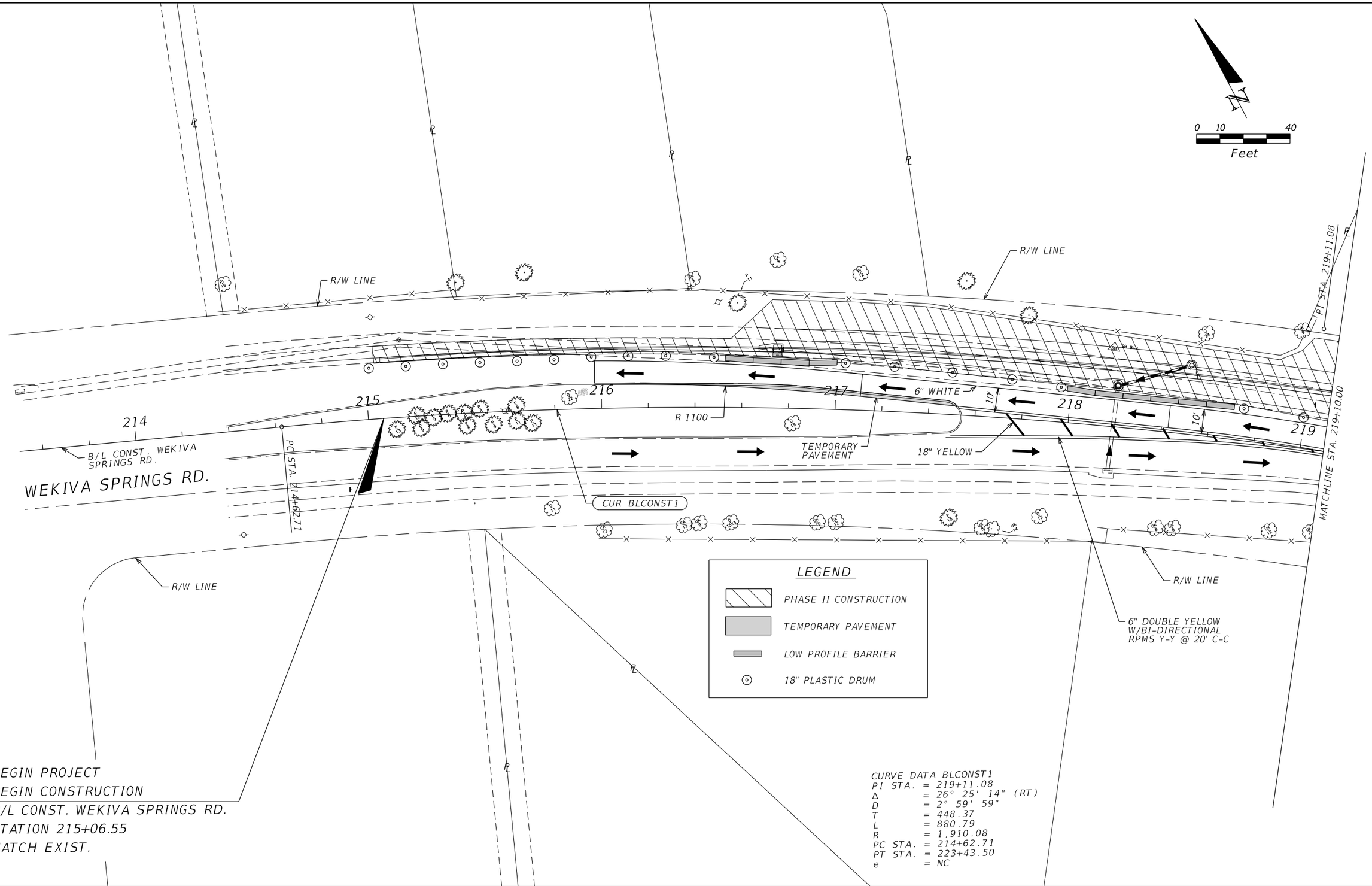
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TEMPORARY TRAFFIC CONTROL PLAN



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ENGINEERING DIVISION

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WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 57

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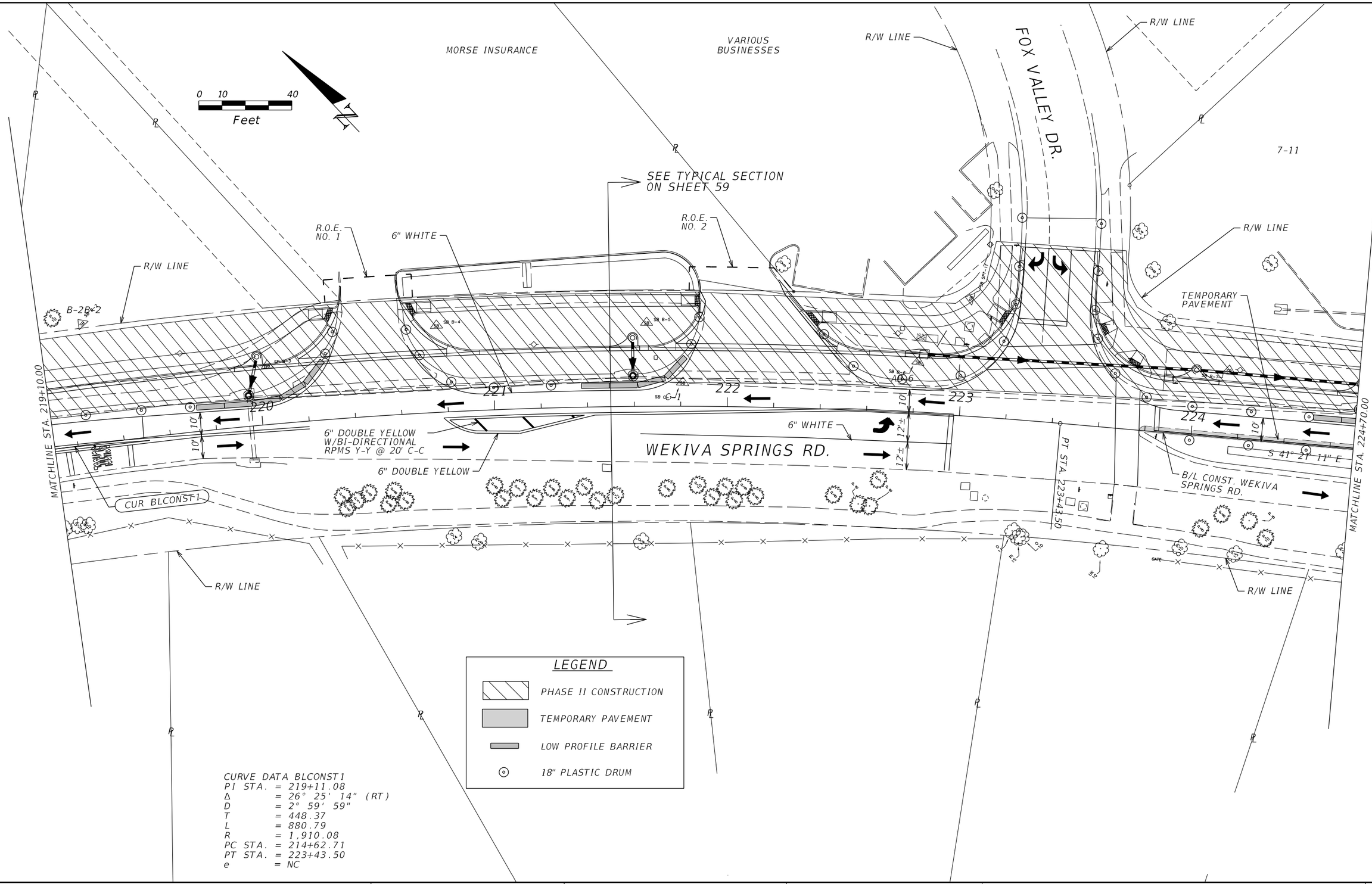

CURVE DATA BLCONST1
PI STA. = 219+11.08
Δ = 26° 25' 14" (RT)
D = 2° 59' 59"
T = 448.37
L = 880.79
R = 1,910.08
PC STA. = 214+62.71
PT STA. = 223+43.50
e = NC

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WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 58

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SABAL POINT ELEMENTARY SCHOOL

0 10 40
Feet

7-11

TEMPORARY PAVEMENT

SEE TYPICAL SECTION ON SHEET 59

SEE TYPICAL SECTION ON SHEET 59

SEE TYPICAL SECTION ON SHEET 59

R.O.E. NO. 3

R/W LINE

T.C.E. NO. 1

T.C.E. NO. 2

6" WHITE

R/W LINE

MATCHLINE STA. 224+70.00

STA. 226+16.38 PI

MATCHLINE STA. 230+30.00

225 226 227 228 229 230

10'

S 41° 15' 20" E

B/L CONST. WEKIVA SPRINGS RD.

WEKIVA SPRINGS RD.

TEMPORARY PAVEMENT

R/W LINE

R/W LINE

90' LANE LINE TRANSITION
3' LANE SHIFT

140' LANE LINE TRANSITION
4' LANE SHIFT

LEGEND

- PHASE II CONSTRUCTION
- TEMPORARY PAVEMENT
- LOW PROFILE BARRIER
- 18" PLASTIC DRUM

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WEKIVA SPRINGS ROAD
TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 59

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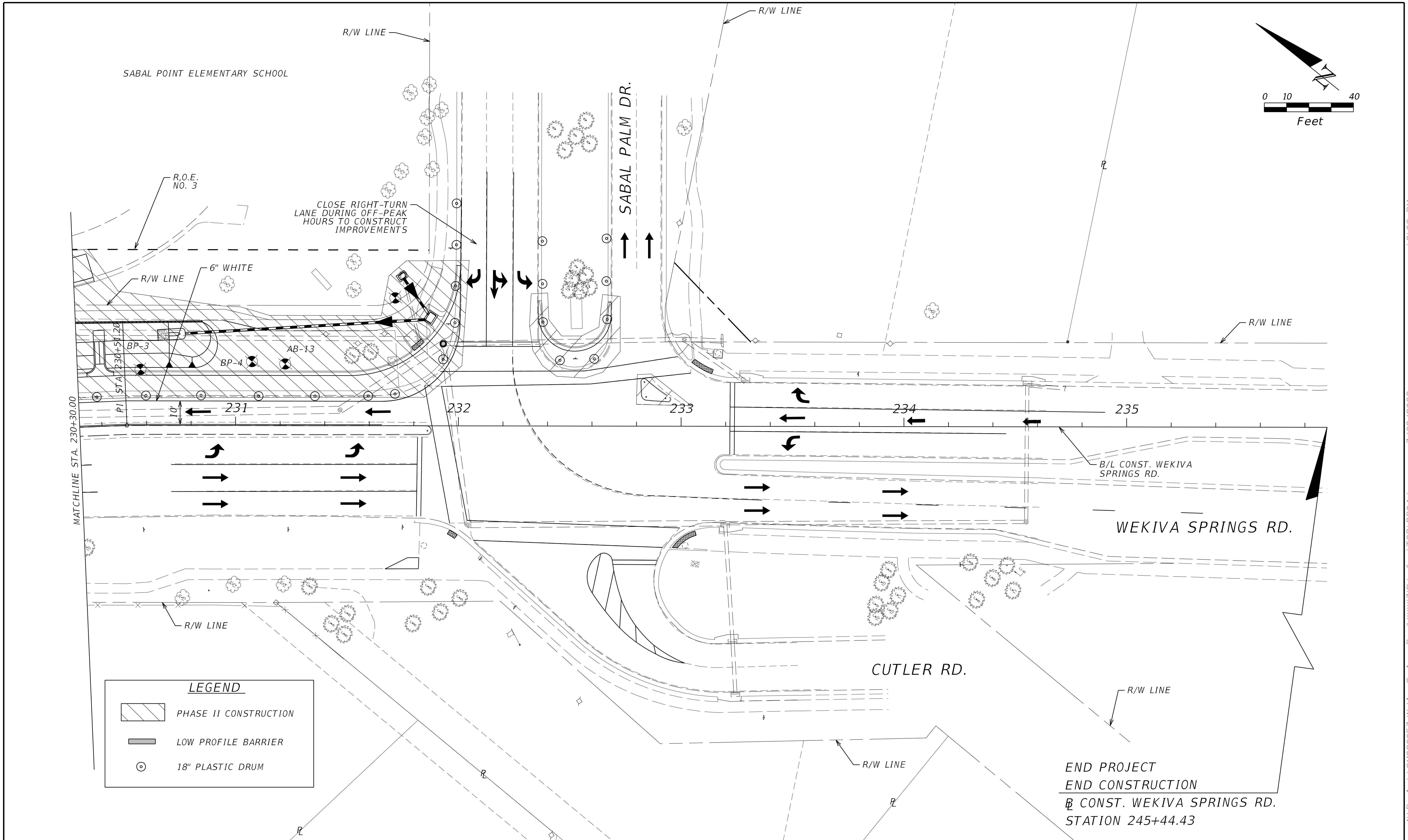

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ENGINEERING DIVISION

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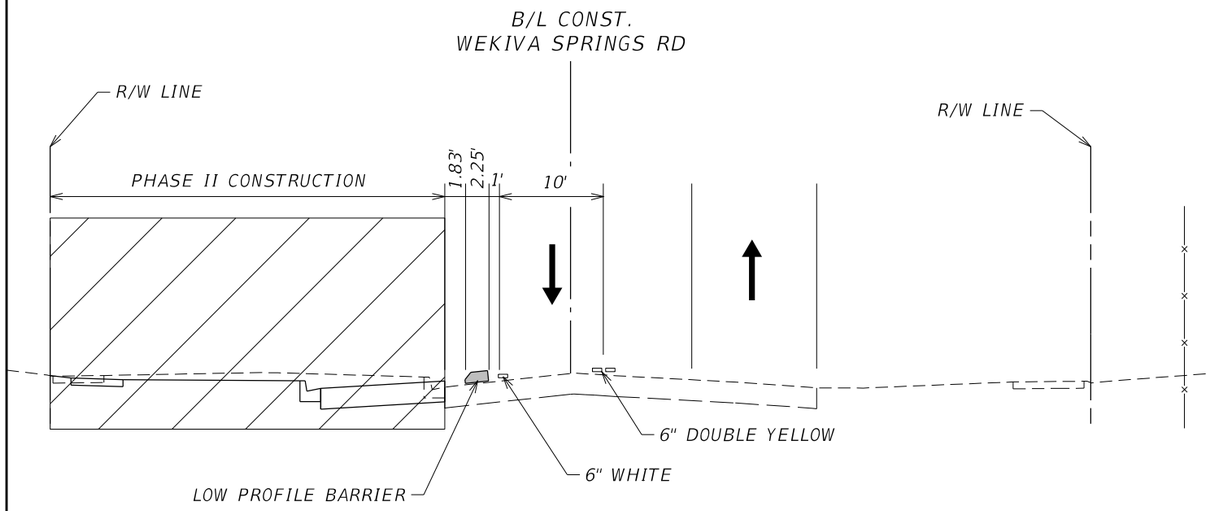
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO.
60



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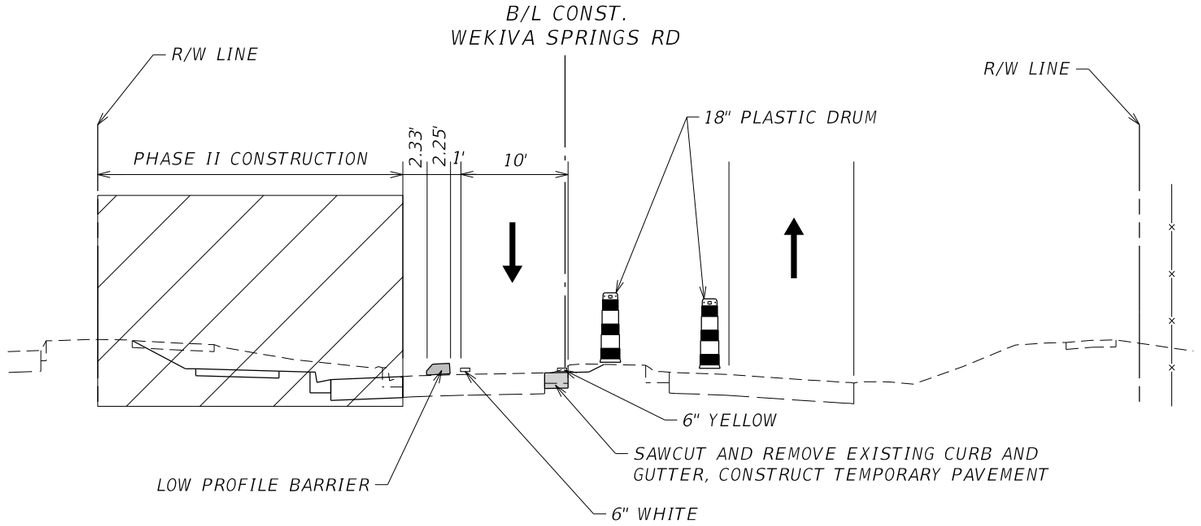

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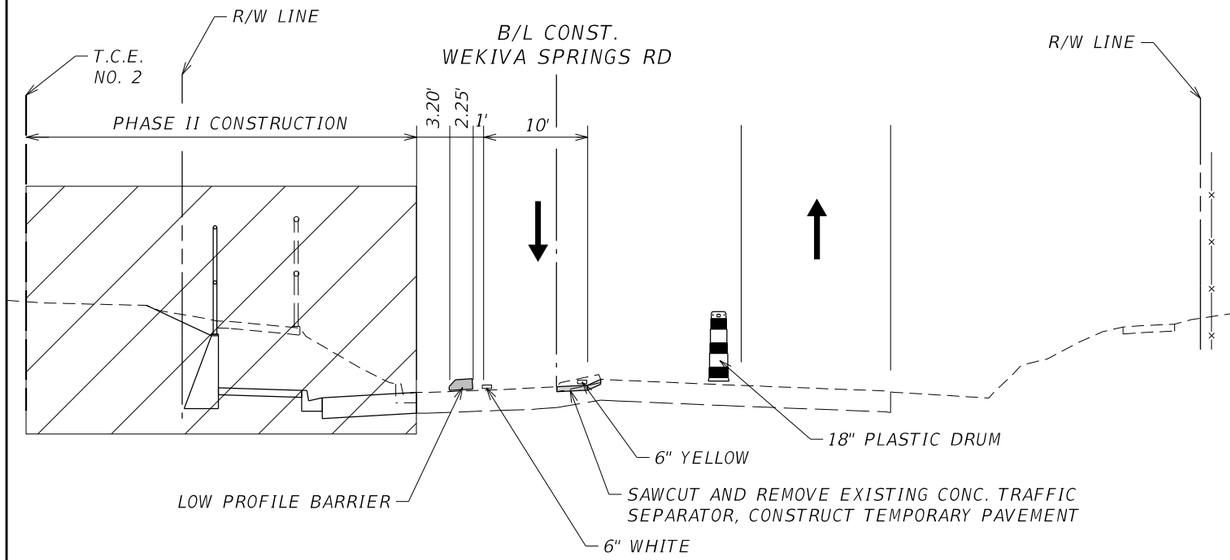
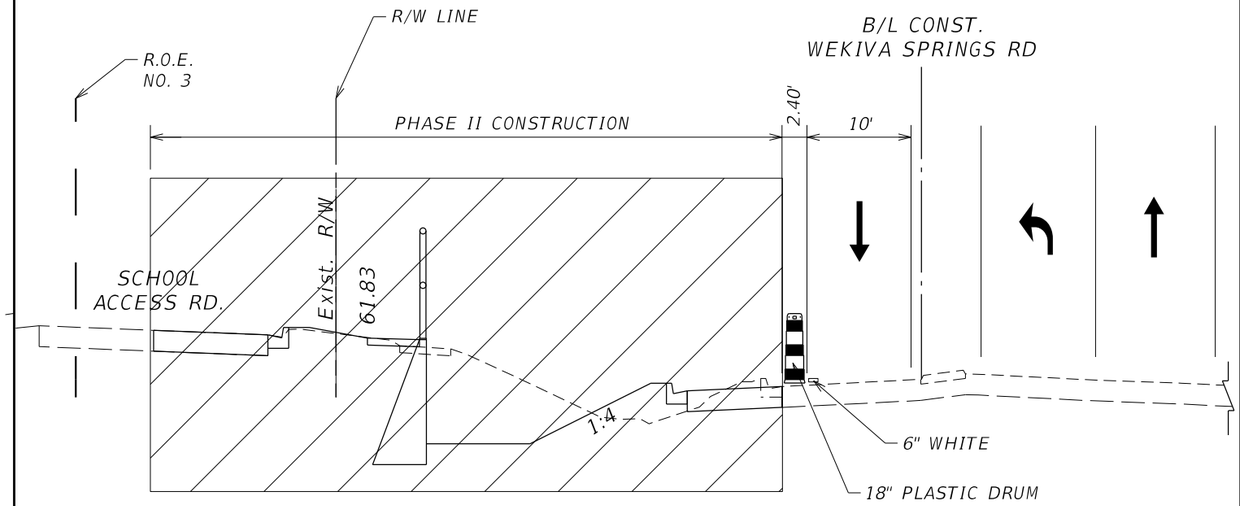


TTCP CROSS SECTION
STA. 227+00.00



TTCP CROSS SECTION
STA. 230+00.00

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

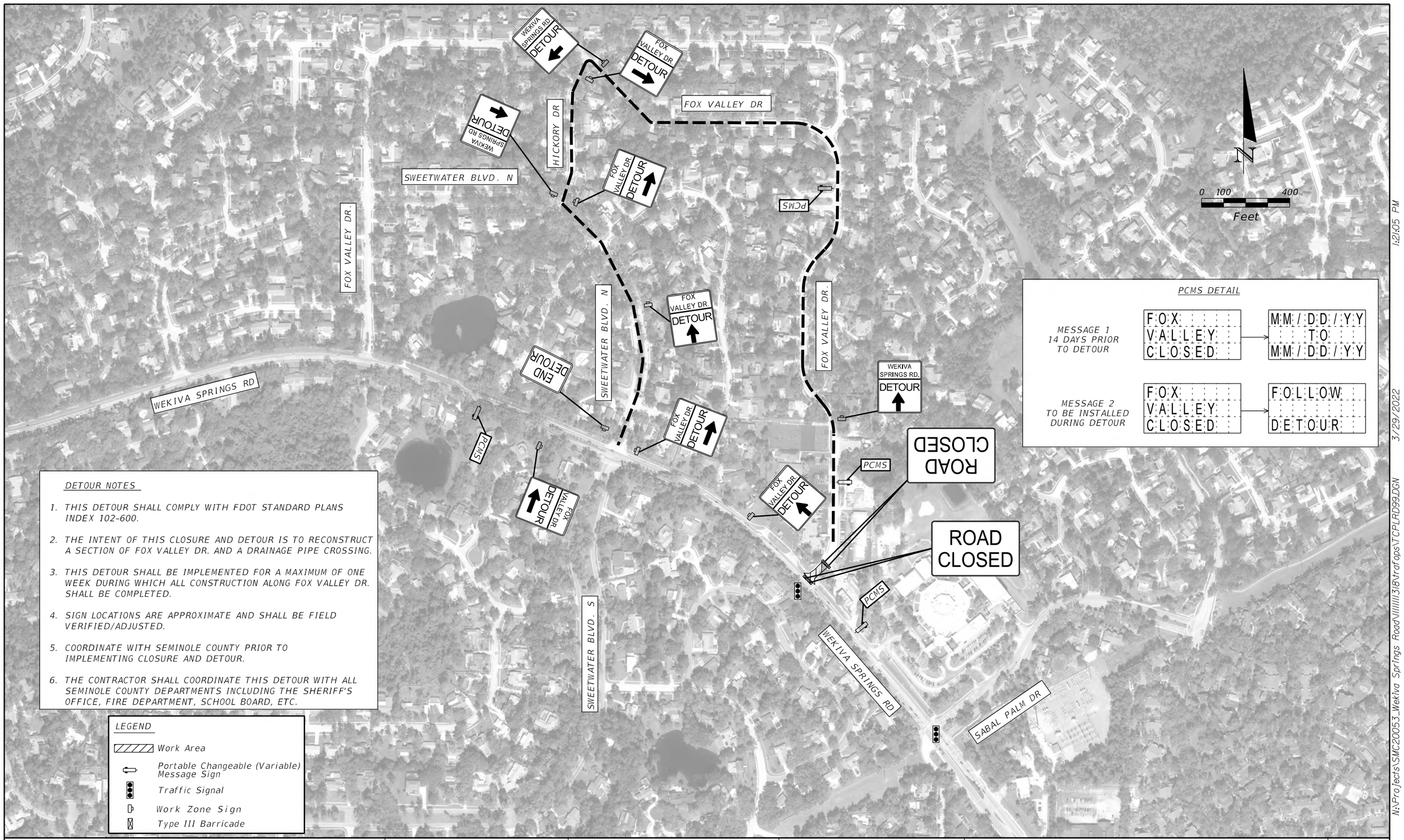
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 61

1:21:03 PM 3/29/2022
N:\Projects\SMC20053_Wekiva Springs Road\IIIIII3\8\trafops\TCPLRD07.dgn



PCMS DETAIL

MESSAGE 1 14 DAYS PRIOR TO DETOUR	FOX VALLEY CLOSED	MM/DD/YY TO MM/DD/YY
MESSAGE 2 TO BE INSTALLED DURING DETOUR	FOX VALLEY CLOSED	FOLLOW DETOUR

DETOUR NOTES

1. THIS DETOUR SHALL COMPLY WITH FDOT STANDARD PLANS INDEX 102-600.
2. THE INTENT OF THIS CLOSURE AND DETOUR IS TO RECONSTRUCT A SECTION OF FOX VALLEY DR. AND A DRAINAGE PIPE CROSSING.
3. THIS DETOUR SHALL BE IMPLEMENTED FOR A MAXIMUM OF ONE WEEK DURING WHICH ALL CONSTRUCTION ALONG FOX VALLEY DR. SHALL BE COMPLETED.
4. SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED/ADJUSTED.
5. COORDINATE WITH SEMINOLE COUNTY PRIOR TO IMPLEMENTING CLOSURE AND DETOUR.
6. THE CONTRACTOR SHALL COORDINATE THIS DETOUR WITH ALL SEMINOLE COUNTY DEPARTMENTS INCLUDING THE SHERIFF'S OFFICE, FIRE DEPARTMENT, SCHOOL BOARD, ETC.

LEGEND

- Work Area
- Portable Changeable (Variable) Message Sign
- Traffic Signal
- Work Zone Sign
- Type III Barricade

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
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PEGASUS ENGINEERING, LLC
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CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TRAFFIC CONTROL DETOUR

SHEET NO. 62

3/29/2022 1:21:05 PM
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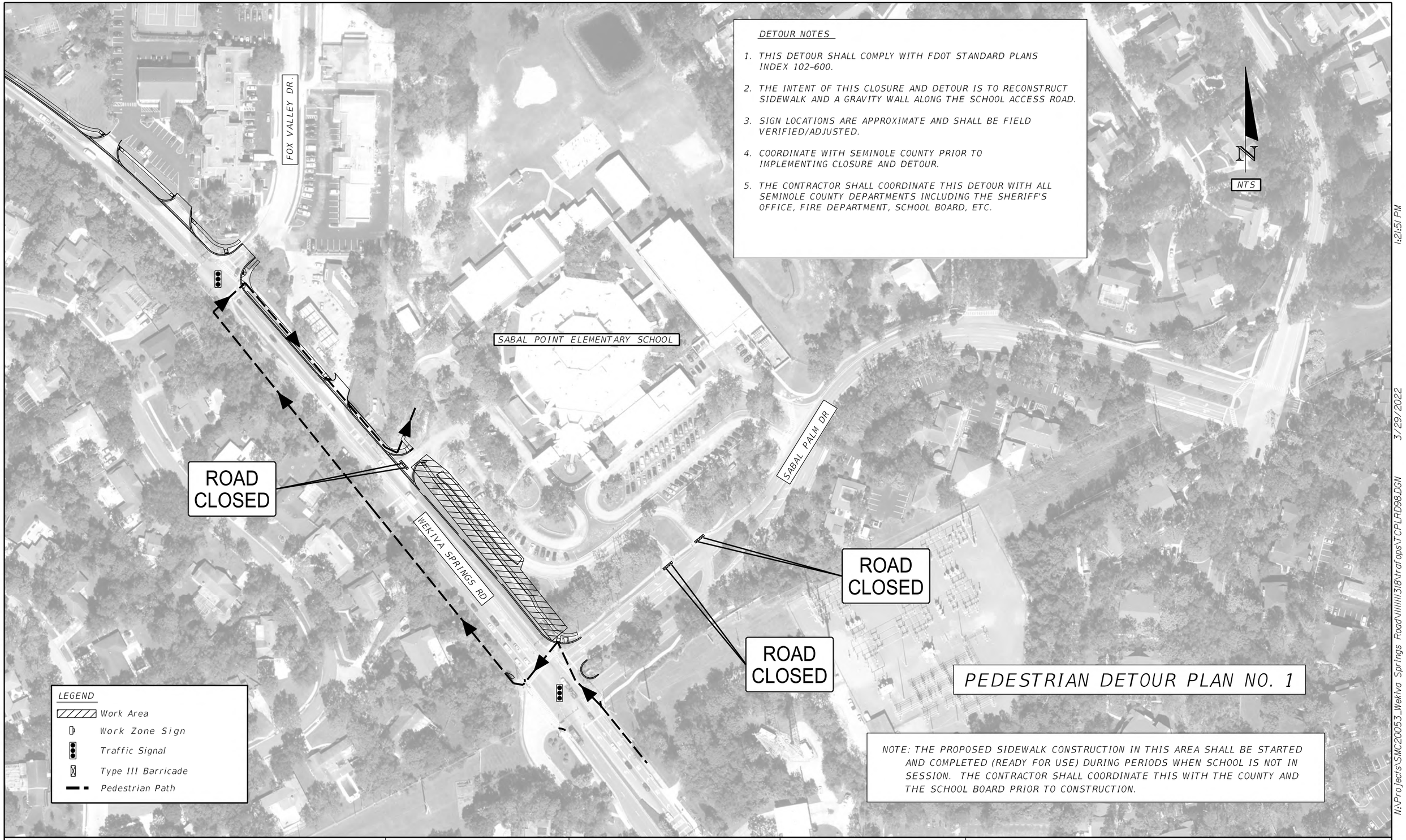

DETOUR NOTES

1. THIS DETOUR SHALL COMPLY WITH FDOT STANDARD PLANS INDEX 102-600.
2. THE INTENT OF THIS CLOSURE AND DETOUR IS TO RECONSTRUCT SIDEWALK AND A GRAVITY WALL ALONG THE SCHOOL ACCESS ROAD.
3. SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED/ADJUSTED.
4. COORDINATE WITH SEMINOLE COUNTY PRIOR TO IMPLEMENTING CLOSURE AND DETOUR.
5. THE CONTRACTOR SHALL COORDINATE THIS DETOUR WITH ALL SEMINOLE COUNTY DEPARTMENTS INCLUDING THE SHERIFF'S OFFICE, FIRE DEPARTMENT, SCHOOL BOARD, ETC.

PEDESTRIAN DETOUR PLAN NO. 1

NOTE: THE PROPOSED SIDEWALK CONSTRUCTION IN THIS AREA SHALL BE STARTED AND COMPLETED (READY FOR USE) DURING PERIODS WHEN SCHOOL IS NOT IN SESSION. THE CONTRACTOR SHALL COORDINATE THIS WITH THE COUNTY AND THE SCHOOL BOARD PRIOR TO CONSTRUCTION.

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
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CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

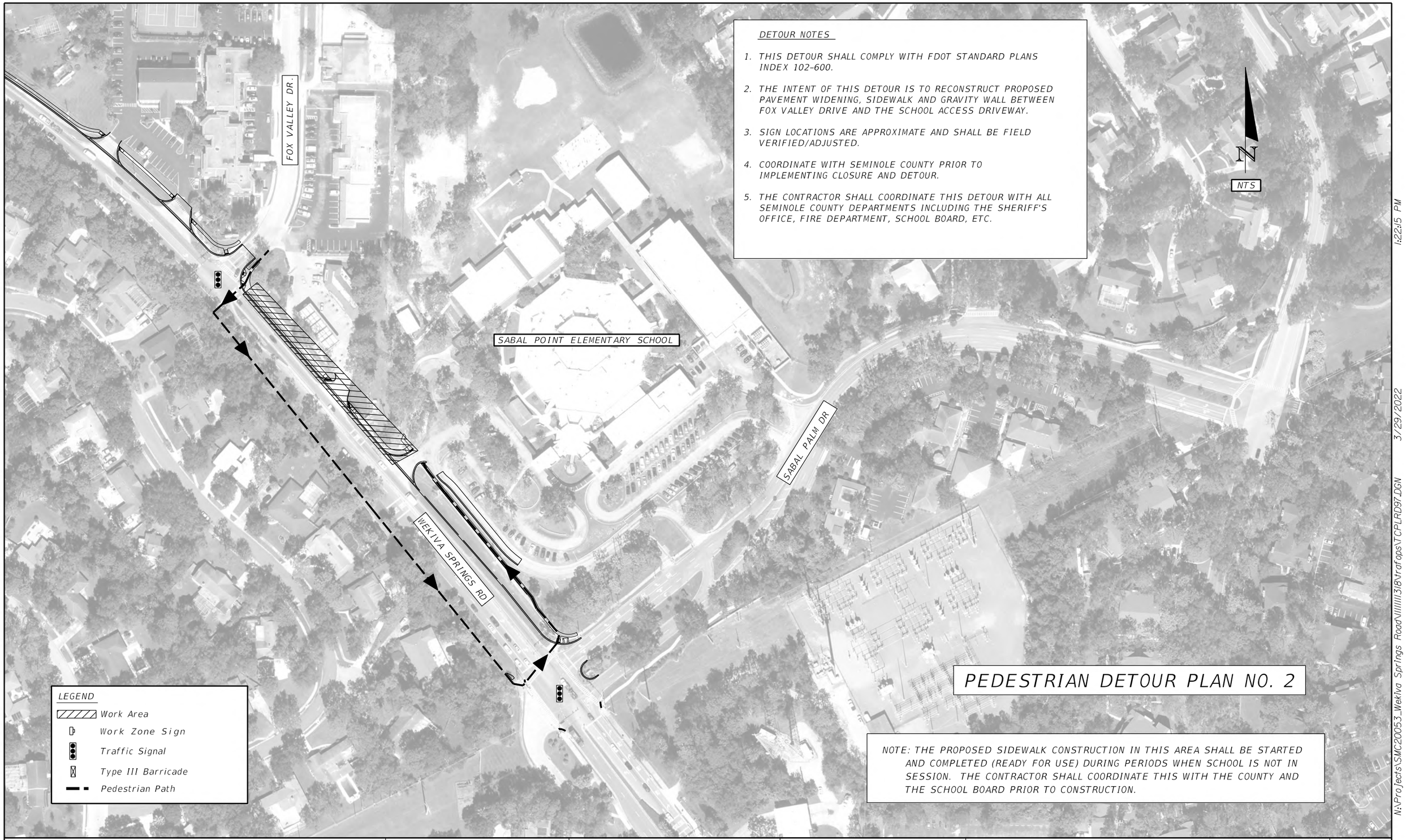
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TRAFFIC CONTROL DETOUR

SHEET NO.
63

3/29/2022 1:21:51 PM
N:\Projects\SMC20053_Wekiva Springs Road\IIIIIII3\8\trafops\TCPLRD98.DGN



DETOUR NOTES

1. THIS DETOUR SHALL COMPLY WITH FDOT STANDARD PLANS INDEX 102-600.
2. THE INTENT OF THIS DETOUR IS TO RECONSTRUCT PROPOSED PAVEMENT WIDENING, SIDEWALK AND GRAVITY WALL BETWEEN FOX VALLEY DRIVE AND THE SCHOOL ACCESS DRIVEWAY.
3. SIGN LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED/ADJUSTED.
4. COORDINATE WITH SEMINOLE COUNTY PRIOR TO IMPLEMENTING CLOSURE AND DETOUR.
5. THE CONTRACTOR SHALL COORDINATE THIS DETOUR WITH ALL SEMINOLE COUNTY DEPARTMENTS INCLUDING THE SHERIFF'S OFFICE, FIRE DEPARTMENT, SCHOOL BOARD, ETC.

LEGEND

- Work Area
- Work Zone Sign
- Traffic Signal
- Type III Barricade
- Pedestrian Path

PEDESTRIAN DETOUR PLAN NO. 2

NOTE: THE PROPOSED SIDEWALK CONSTRUCTION IN THIS AREA SHALL BE STARTED AND COMPLETED (READY FOR USE) DURING PERIODS WHEN SCHOOL IS NOT IN SESSION. THE CONTRACTOR SHALL COORDINATE THIS WITH THE COUNTY AND THE SCHOOL BOARD PRIOR TO CONSTRUCTION.

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TRAFFIC CONTROL DETOUR

SHEET NO.
64

3/29/2022 1:22:15 PM
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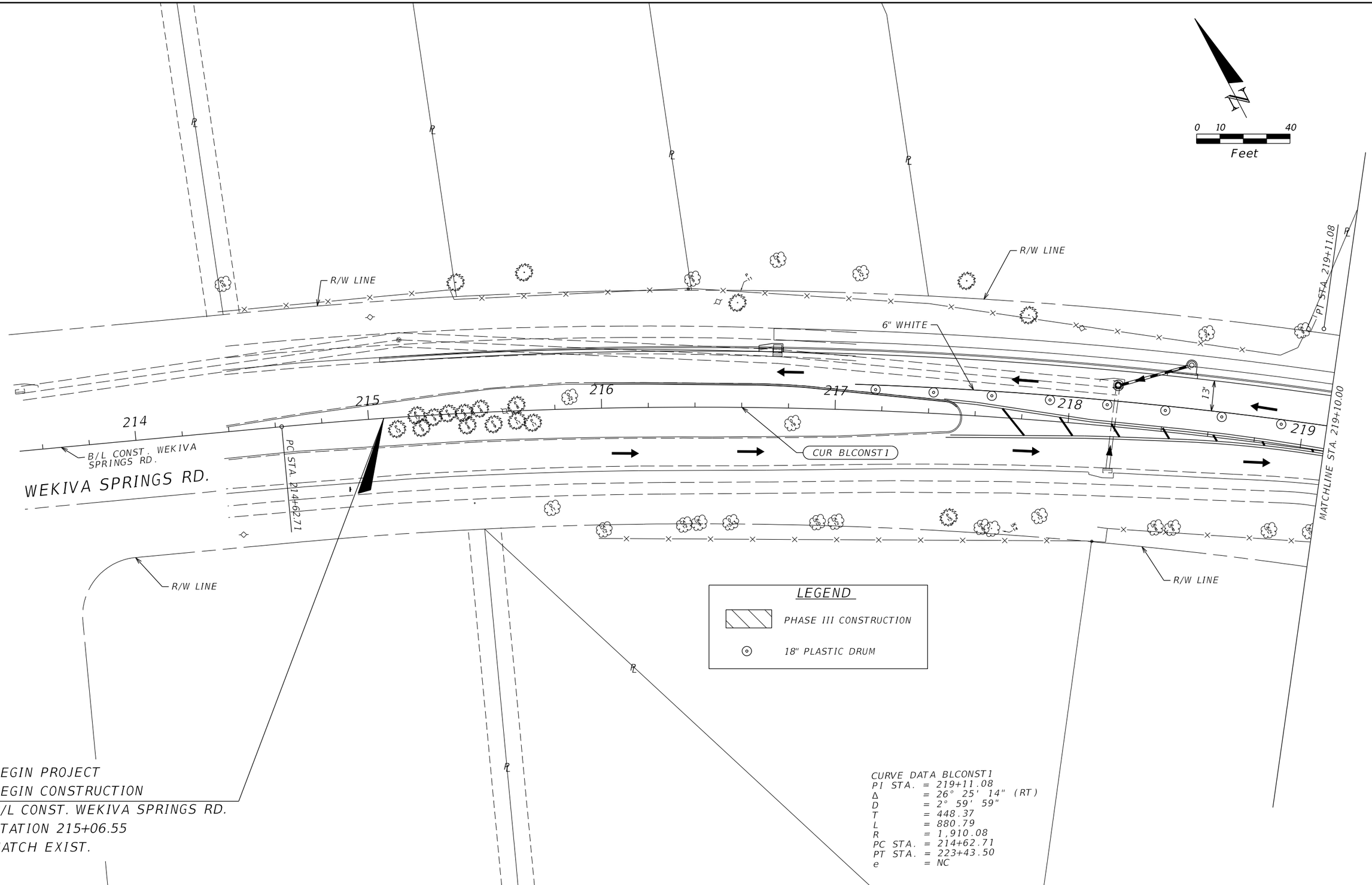


REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

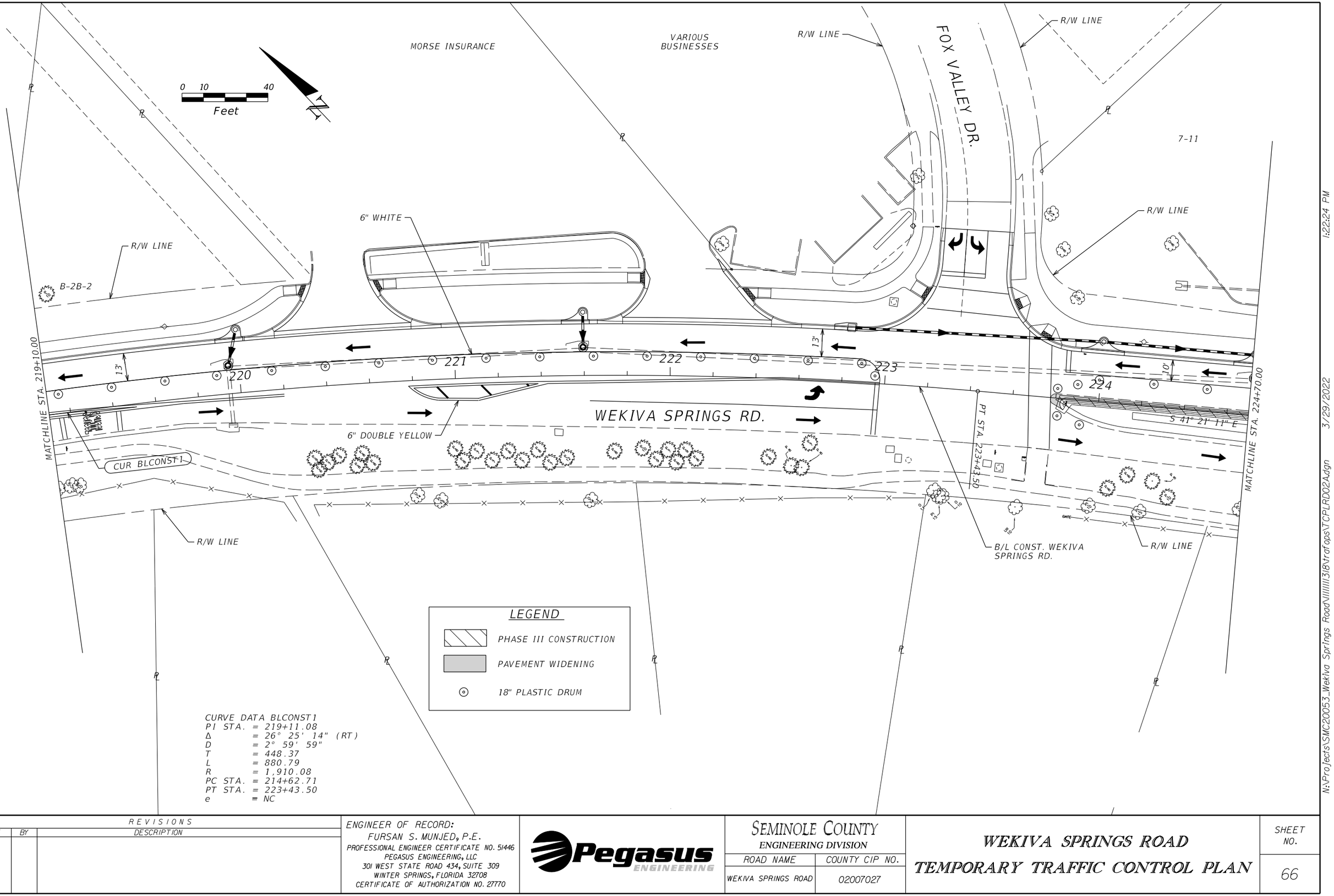
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 65

N:\Projects\SMC20053_Wekiva Springs Road\IIIIIII318\trafops\TCPLRDO1A.dgn 3/29/2022 1:22:24 PM



REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 66

N:\Projects\SMC20053_Wekiva Springs Road\IIIIIII316\trafops\TCPLRD02Adgn 3/29/2022 1:22:24 PM

SABAL POINT ELEMENTARY SCHOOL

7-11

0 10 40
Feet

R/W LINE

6" WHITE

R/W LINE

FOUND SB HOLE NO ID

MATCHLINE STA. 224+70.00

225 226 227 228 229 230

PI STA 226+16.38

10'

S 41° 15' 20" E

B/L CONST. WEKIVA SPRINGS RD.

MATCHLINE STA. 230+30.00

WEKIVA SPRINGS RD.

R/W LINE

R/W LINE

LEGEND

PHASE III CONSTRUCTION

18" PLASTIC DRUM

3/29/2022 1:22:25 PM

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REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 67

R/W LINE

SABAL POINT ELEMENTARY SCHOOL

R/W LINE

SABAL PALM DR.

R/W LINE

N

0 10 40

Feet

R/W LINE

6" WHITE

BP-3

BP-4

AB-13

P.I. STA. 230+51.20

10'

231

232

233

234

235

MATCHLINE STA. 230+30.00

12'

11'

B/L CONST. WEKIVA SPRINGS RD.

WEKIVA SPRINGS RD.

R/W LINE

CUTLER RD.

R/W LINE

R/W LINE

END PROJECT
END CONSTRUCTION
℄ CONST. WEKIVA SPRINGS RD.
STATION 245+44.43

LEGEND

PHASE III CONSTRUCTION

LOW PROFILE BARRIER

18" PLASTIC DRUM

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
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PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TEMPORARY TRAFFIC CONTROL PLAN

SHEET NO. 68

1:22:26 PM 3/29/2022

N:\Projects\SMC20053_Wekiva Springs Road\IIIIII3\8\trafops\TCPLR004Adgn

N

0 10 40

Feet

EXIST. BURIED TELEPHONE

OH FOC-48
AT&T

EXIST. BURIED ELECTRIC

OH ELECTRIC
DUKE ENERGY (D)

EXIST. BURIED FOC

EXIST. BURIED FOC

EXIST. SAN FM

EXIST. BURIED CATV

R/W LINE

R/W LINE

PI STA. 219+11.08

EXIST. OH ELECTRIC

EXIST. OH ELECTRIC

214

215

216

217

218

219

S-1

S-2

CUR BLCONST1

EXIST. BURIED
TELEPHONE

B/L CONST. WEKIVA
SPRINGS RD.

PC STA. 214+62.71

WEKIVA SPRINGS RD.

OLD RIGHT OF WAY
PLAT BOOK 6, PAGE 25

R/W LINE

MATCHLINE STA. 219+10.00

EXIST. OH ELECTRIC

EXIST. BURIED TELEPHONE

EXIST. WATER MAIN

EXIST. BURIED CATV

BEGIN PROJECT
BEGIN CONSTRUCTION
B/L CONST. WEKIVA SPRINGS RD.
STATION 215+06.55

LEGEND

MILLING & RESURFACING

PAVEMENT WIDENING

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

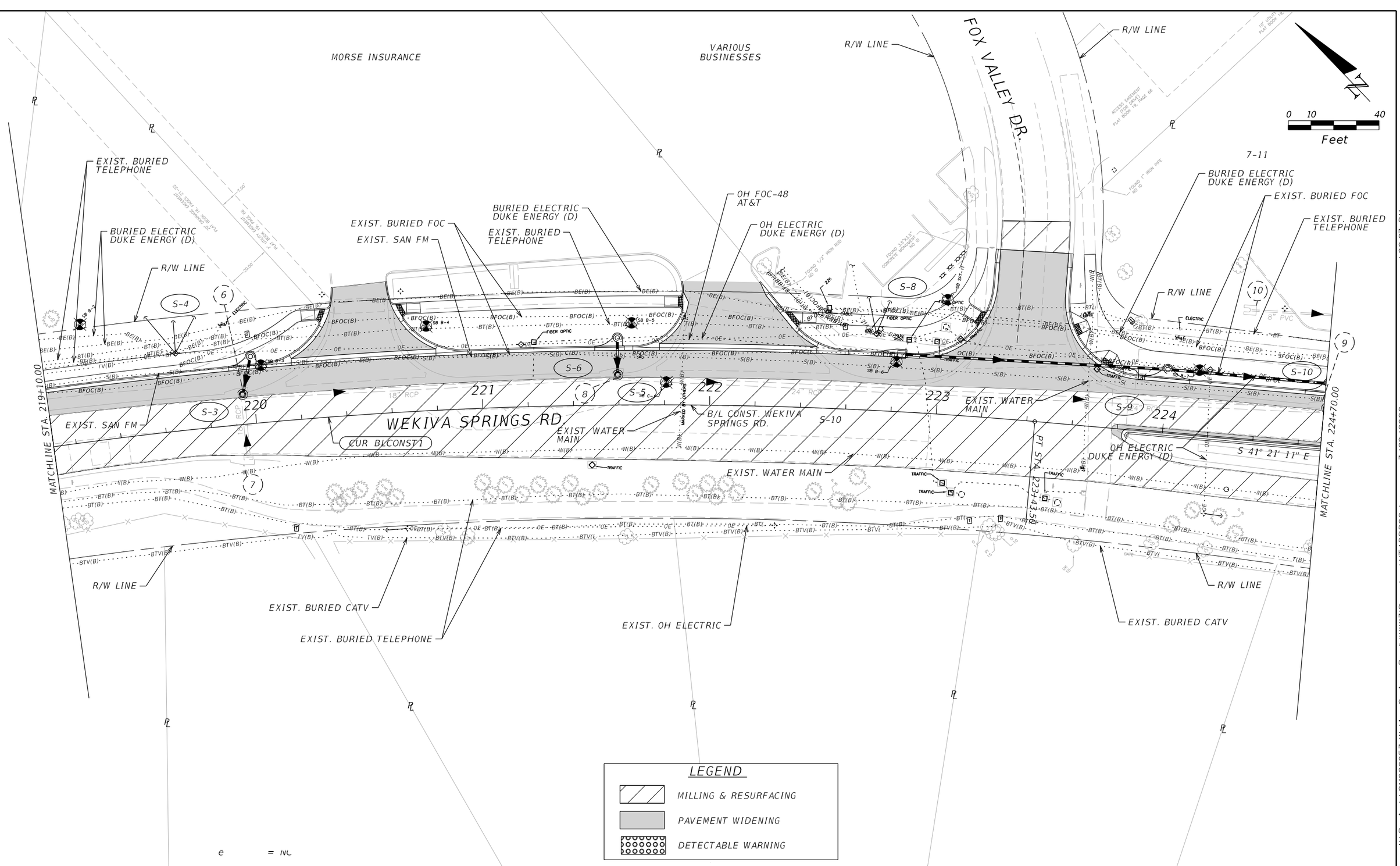
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
UTILITY ADJUSTMENTS

SHEET NO.
69

3/29/2022 1:22:26 PM
N:\Projects\SMC20053_Wekiva Springs Road\IIIIII318\roadway\UTADRD01.dgn



REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
UTILITY ADJUSTMENTS

SHEET NO.
70

N:\Projects\SMC20053_Wekiva Springs Road\IIIIII\318\roadway\UTADRD02.dgn 3/29/2022 1:22:27 PM

7-11

SABAL POINT ELEMENTARY SCHOOL

0 10 40
Feet

EXIST. BURIED TELEPHONE
EXIST. BURIED FOC
BURIED ELECTRIC DUKE ENERGY (D)
T.C.E. NO. 2
T.C.E. NO. 1
R/W LINE
BURIED ELECTRIC DUKE ENERGY (D)
0H FOC-18 AT&T
0H ELECTRIC DUKE ENERGY (D)
EXIST. BURIED FOC
R/W LINE
EXIST. SAN FM
0H ELECTRIC DUKE ENERGY (D)
WEKIVA SPRINGS RD.
S 41° 15' 20" E
B/L CONST. WEKIVA SPRINGS RD.
EXIST. WATER MAIN
R/W LINE
EXIST. BURIED CATV
EXIST. BURIED CATV
EXIST. BURIED TELEPHONE
EXIST. OH ELECTRIC

MATCHLINE STA. 224+70.00

MATCHLINE STA. 230+30.00

LEGEND

- MILLING & RESURFACING
- PAVEMENT WIDENING
- DETECTABLE WARNING

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD UTILITY ADJUSTMENTS

SHEET NO. 71

3/29/2022 1:22:28 PM
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SABAL POINT ELEMENTARY SCHOOL

R/W LINE

SABAL PALM DR.

SABAL PALM DR.

R/W LINE

0 10 40
Feet

0H FOC-48 AT&T

EXIST. BURIED FOC

0H ELECTRIC DUKE ENERGY (D)

MAST ARM FOUNDATION POLE A

BURIED ELECTRIC DUKE ENERGY (D)

R/W LINE

EXIST. BURIED CATV

PROP. R/W LINE

MAST ARM FOUNDATION POLE B

EXIST. BURIED FOC

EXIST. BURIED ELECTRIC

BURIED FOC-48 AT&T

EXIST. WATER MAIN

0H ELECTRIC DUKE ENERGY (D)

R/W LINE

BFOC-48 AT&T

EXIST. BURIED TELEPHONE

STA. 230+51.20

P1

MATCHLINE STA. 230+30.00

231

232

233

234

235

MATCHLINE STA. 235+90.00

EXIST. BURIED TELEPHONE

EXIST. BURIED TELEPHONE

EXIST. WATER MAIN

EXIST. LIGHT POLE TO BE RELOCATED

B/L CONST. WEKIVA SPRINGS RD.

EXIST. WATER MAIN

WEKIVA SPRINGS RD.

EXIST. 0H ELECTRIC

EXIST. WATER MAIN

MAST ARM FOUNDATION POLE C

EXIST. BURIED ELECTRIC

MAST ARM FOUNDATION POLE D

CUTLER RD.

R/W LINE

EXIST. BURIED TELEPHONE

EXIST. BURIED CATV

EXIST. 0H ELECTRIC

0H ELECTRIC DUKE ENERGY (D)

EXIST. BURIED CATV

R/W LINE

R/W LINE

EXIST. WATER MAIN

EXIST. 0H ELECTRIC

END PROJECT
END CONSTRUCTION
B/L CONST. WEKIVA SPRINGS RD.
STATION 245+44.43

LEGEND

MILLING & RESURFACING

PAVEMENT WIDENING

DETECTABLE WARNING

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD UTILITY ADJUSTMENTS

SHEET NO. 72

N:\Projects\SMC20053_Wekiva Springs Road\IIIIII\3\8\roadway\UTADRD04.dgn
3/29/2022 1:22:29 PM

INDEX OF SUMMARY OF QUANTITIES

SUMMARY OF LUMP SUM ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	QUANTITY		DESIGN NOTES	CONSTRUCTION REMARKS
		P	F		
101-1	MOBILIZATION	1			
102-1	MAINTENANCE OF TRAFFIC	1			
104-14	PREVENTION, CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION	1			

N:\Projects\SMC20053_Wekiva Springs Road\IIIII1318\roadway\SUMQRD01.dgn 3/29/2022 1:22:30 PM

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUMMARY OF QUANTITIES

SHEET NO.
SQ-1

SUMMARY OF TEMPORARY TRAFFIC CONTROL PLAN ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	UNIT	ALL PHASES			GRAND TOTAL		DESIGN NOTES	CONSTRUCTION REMARKS
			DURATION	QUANTITY	TOTAL				
			DAYS	P	P	P	F		
102-1	MAINTENANCE OF TRAFFIC	LS				1		270 DAYS	
102-99	PORTABLE CHANGEABLE MESSAGE SIGN	ED							
	BEGIN PROJECT LOCATION = (1 DEVICE) x (5 LOCATIONS): PRE PROJECT		14	5	70	1448			
	BEGIN PROJECT LOCATION = (1 DEVICE) x (5 LOCATIONS)		270	5	1350				
	FOX VALLEY DRIVE DETOUR = (1 DEVICE) x (4 LOCATIONS)		7	4	28				

REVISIONS		
DATE	BY	DESCRIPTION

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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUMMARY OF QUANTITIES

SHEET NO.
SQ-2

SUMMARY OF EROSION AND SEDIMENT CONTROL DEVICES

LOCATION STA. TO STA.		SIDE	SEDIMENT BARRIER SY		INLET PROTECTION SYSTEM EA		DESIGN NOTES	CONSTRUCTION REMARKS
			P	F	P	F		
215+06.13	220+36.31	LT	547.5					
220+61.77	221+85.26	LT	133.2					
222+27.27	223+07.73	LT	108.2					
223+65.94	225+95.58	LT	259.2					
226+15.35	226+83.55	LT	85.5					
226+93.22	227+40.23	LT	86.0					
227+50.98	227+73.82	LT	22.9					
230+43.23	231+86.80	LT	166.3					
232+18.76	233+17.80	LT	123.4				CUTLER ROAD	
232+96.43	233+14.37	LT	47.4				CUTLER ROAD	
232+92.79	232+99.66	LT	13.5					
233+20.69	234+90.81	LT	170.1					
235+10.73	236+16.07	LT	105.3					
236+63.82	238+92.03	LT	228.2					
239+26.64	241+10.61	LT	184.0					
241+40.34	244+66.78	LT	326.4					
245+28.89	245+44.43	LT	15.5					
218+18.72		RT			1			
226+07.92		LT			1		7-11	
219+95.24		RT			1			
227+48.30		RT			1			
228+54.10		LT			1		DBI - SCHOOL PARKING LOT	
230+28.20		LT			1		DBI - SCHOOL PARKING LOT	
230+85.93		LT			1			
232+96.15		LT			1			
233+19.82		RT			1			
233+23.60		RT			1		CUTLER ROAD	
233+24.87		RT			1		CUTLER ROAD	
233+28.86		LT			1			
234+55.43		LT			1			
235+60.08		LT			1			
237+60.83		LT			1			
238+42.09		LT			1			
239+64.09		LT			1			
241+60.48		LT			1			
244+30.92		LT			1			
SUB-TOTAL:			2622.6		19			
TOTAL:			2623		19			

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUMMARY OF QUANTITIES

SHEET NO.
SQ-3

SUMMARY OF CLEARING AND GRUBBING & REMOVAL ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	AREA ID	LENGTH	WIDTH	UNITS	SECONDARY UNITS (IF LUMP SUM) AREA (AC)	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
110-1-1	CLEARING AND GRUBBING						LS		1		1		LUMP SUM = 1 (1.44 AC.)	
		215+06.55 to 223+22.75	LT	30764				0.652						
		223+51.99 to 232+00.92	LT	30967				0.770						
		232+35.73 to 232+68.49	LT	16100				0.014						
110-4-10	REMOVAL OF EXISTING CONCRETE	215+06.55 to 223+22.75	LT	31483			SY		257.0		1996			
		216+73.28 to 220+36.73	LT	21052					206.3					
		220+60.68 to 220+60.96	LT	21222					0.56					
		220+60.68 to 221+88.31	LT	15296					72.4					
		222+29.88 to 223+17.33	LT	15313					82.2					
		223+51.99 to 232+00.92	LT	31643					275.4					
		223+55.22 to 225+98.22	LT	32227					272.2					
		223+78.25 to 231+87.96	LT	31424					351.4					
		225+89.24 to 225+97.14	LT	31814					0.5					
		226+27.20 to 226+32.52	LT	31822					0.6					
		226+39.00 to 227+74.22	LT	32265					146.0					
		227+98.85 to 231+92.82	LT	15442					263.3					
		228+33.76 to 230+38.86	LT	20754					47.3					
		232+35.73 to 232+68.49	LT	15492					11.6					
		232+81.88 to 232+94.91	LT	15927					9.1					

SUMMARY OF EARTHWORK

PAY ITEM NO.	PAY ITEM DESCRIPTION	CY P	CY F	DESIGN NOTES	CONSTRUCTION REMARKS
120-1	REGULAR EXCAVATION	1879			
120-4	SUBSOIL EXCAVATION	406			
120-6	EMBANKMENT	193			
	SUBSOIL EXCAVATION	406			
	EMBANKMENT TOTAL	599			

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUMMARY OF QUANTITIES

SHEET NO. SQ-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		
160-4	Type B Stabilization	215+06.55 to 232+00.92		LT	22049			SY	2983.6		3083			
		223+83.74 to 225+17.41		MED	19892				49.1					
		232+35.73 to 232+68.49		LT	11705				50.0					
285-706	Base Group 6, Type B-12.5 Only	228+33.42 to 230+38.86		LT	19295			SY	248.6		249		School Access Road	
285-713	Base Group 13, Type B-12.5 Only (8")	215+06.55 to 232+00.92		LT	22371			SY	2272.8		2647			
		223+77.64 to 231+87.96		MED	19494				343.4					
		232+35.79 to 232+68.49		LT	12469				30.8					
327-70-6	Milling Existing Asphalt Pavement (1.5")	215+06.55 to 245+44.53		LT/RT	23583			SY	12216.9		12261			
		223+22.46 to 223+51.99		LT	12609				44.3					
334-1-13	Superpave Asphaltic Concrete, Traffic C	215+06.55 to 232+00.92	2.5"	LT	25566			TN	254.6		418.5			
		220+17.55 to 220+80.55	2.5"	LT	25533				16.3					
		221+77.89 to 222+46.26	2.5"	LT	25538				18.8					
		223+77.64 to 231+87.96	2.5"	MED	24255				47.2					
		227+53.62 to 228+17.07	2.5"	LT	25556				19.0					
		228+33.76 to 230+38.86	2.0"	LT	20025				27.3				School Access Road	
		232+35.79 to 232+68.49	2.5"	LT	13011				4.2				Sabal Palm Drive	
	Overbuild	218+50.00 to 223+00.00		LT					31.0					
337-7-83	Asphaltic Concrete Friction Course, Traffic C, FC-12.5, PG 76-22	215+06.55 to 232+00.92	1.5"	LT	26037			TN	150.2		1206.2			
		215+06.55 to 245+44.43	1.5"	LT/RT	27484				1007.9					
		220+17.55 to 220+80.55	1.5"	LT	13323				9.8					
		221+77.89 to 222+46.26	1.5"	LT	26134				11.3					
		223+22.75 to 223+51.39	1.5"	LT	13531				3.7					
		223+79.81 to 231+87.93	1.5"	LT/RT	26583				8.8					
		227+53.62 to 228+17.07	1.5"	LT	13374				11.4					
		232+35.79 to 232+68.49	1.5"	LT	25834				2.5					
		232+82.09 to 232+94.81	1.5"	LT	25939				0.8					

REVISIONS		
DATE	BY	DESCRIPTION

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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUMMARY OF QUANTITIES

SHEET NO.
SQ-5

SUMMARY OF WALLS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	UNIT	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
400-0-11	CONCRETE CLASS NS, GRAVITY WALL (INDEX 400-011)	226+46.00 to 227+10.00	LT	CY	11.5		174			
		228+34.82 to 230+85.00	LT	CY	162.5					

SUMMARY OF MISCELLANEOUS DRAINAGE ITEMS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	UNIT	QUANTITY P	QUANTITY F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
999-1	CONCRETE FLUMES	228+40.25	LT	EA	1.0		3			
		229+40.25			1.0					
		230+40.28			1.0					

REVISIONS		
DATE	BY	DESCRIPTION

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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUMMARY OF QUANTITIES

SHEET NO.
SQ-6

SUMMARY OF CURB & GUTTER AND/OR TRAFFIC SEPARATORS

PAY ITEM NO.	PAY ITEM DESCRIPTION	LOCATION STA. TO STA.	SIDE	UNIT	QUANTITY GROSS LENGTH	DEDUCTIONS TYPE	DEDUCTIONS LENGTH	NET LENGTH P	NET LENGTH F	TOTAL P	TOTAL F	DESIGN NOTES	CONSTRUCTION REMARKS
520-1-7	Curb and Gutter, Type E	223+84.41 to 225+17.41	LT	LF	136.3			136.3		136			
520-1-10	Curb and Gutter, Type F	215+06.55 to 220+03.68	LT	LF	503.8			503.8		1847			
		220+16.95 to 220+30.84	LT		18.8			18.8					
		220+67.26 to 220+81.16	LT		18.8			18.8					
		220+94.42 to 221+66.25	LT		72.8			72.8					
		221+77.19 to 221+87.77	LT		16.9			16.9					
		222+24.72 to 222+46.86	LT		31.4			31.4					
		222+60.13 to 223+14.84	LT		59.8			59.8					
		223+19.28 to 223+21.79	LT		33.3			33.3					
		223+52.99 to 225+74.24	LT		257.3			257.3					
		225+85.40 to 225+94.27	LT		12.2			12.2					
		226+40.48 to 226+48.63	LT		9.7			9.7					
		226+62.20 to 227+39.45	LT		77.2			77.2					
		227+53.02 to 227+72.91	LT		37.1			37.1					
		227+99.09 to 228+17.68	LT		36.4			36.4					
		228+31.25 to 231+99.42	LT		396.4			396.4					
		228+33.50 to 230+39.23	LT		206.4			206.4					
		232+36.31 to 232+67.91	LT		58.8			58.8					
520-2-4	Concrete Curb, Type D	215+97.27 to 217+52.23	LT	LF	155.9			155.9		211			
		220+36.29 to 220+37.57	LT		7.9			7.9					
		220+62.81 to 220+60.48	LT		9.0			9.0					
		221+87.53 to 221+87.13	LT		5.1			5.1					
		222+20.69 to 222+21.23	LT		0.8			0.8					
		225+89.24 to 225+96.27	LT		15.2			15.2					
		226+27.62 to 226+37.46	LT		17.0			17.0					
520-3	Concrete Valley Gutter	220+03.68 to 220+94.42	LT	LF	91.9			91.9		367			
		221+66.25 to 222+60.13	LT		95.1			95.1					
		225+74.24 to 226+62.20	LT		88.0			88.0					
		227+39.45 to 228+31.25	LT		91.8			91.8					
520-5-11	Concrete Traffic Separator, Type I Option II	225+17.41 to 231+87.96	RT	LF	671.6			671.6		672			

SUMMARY OF RAILING

LOCATION STA. TO STA.	SIDE	PEDESTRIAN/BICYCLE RAILING, ALUMINUM ONLY, 42" TYPE I 0515 2 311 LF P	PEDESTRIAN/BICYCLE RAILING, ALUMINUM ONLY, 42" TYPE I 0515 2 311 LF F	DESIGN NOTES	CONSTRUCTION REMARKS
228+34.32 to 230+85.00		250.7			
SUB-TOTAL:		251			
TOTAL:		251			

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
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301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUMMARY OF QUANTITIES

SHEET NO.
SQ-7

SUMMARY OF SIDEWALK & DETECTABLE WARNINGS

LOCATION STA. TO STA.	SIDE	AREA ID	CONC SIDEWALK 4" 0522 1 SY P	CONC SIDEWALK 4" 0522 1 SY F	CONC SIDEWALK 6" 0522 2 SY P	CONC SIDEWALK 6" 0522 2 SY F	DETECTABLE WARNINGS 0527 2 SF P	DETECTABLE WARNINGS 0527 2 SF F	DESIGN NOTES	CONSTRUCTION REMARKS
216+73.28 to 220+05.47	LT	29319	187.4							
220+94.42 to 221+66.25	LT	29326	40.9							
222+60.13 to 222+87.90	LT	29331	16.0							
223+87.15 to 225+74.24	LT	29338	165.5							
226+61.98 to 227+39.45	LT	29346	66.1							
227+43.47 to 227+64.27	LT	29353	13.0							
228+31.25 to 231+50.92	LT	17870	179.2							
220+05.47 to 220+36.29	LT	29512			18.2					
220+61.81 to 220+94.42	LT	29541			17.4					
221+66.25 to 221+88.01	LT	29854			12.6					
222+31.08 to 222+60.13	LT	30139			15.8					
222+87.90 to 223+17.33	LT	29760			34.2					
223+54.53 to 223+87.15	LT	28631			69.2					
225+74.24 to 225+94.65	LT	30086			13.8					
225+86.11 to 226+48.02	LT	29658			98.3				7-11 DRIVEWAY	
226+37.10 to 226+61.98	LT	30110			11.2					
227+39.45 to 227+72.23	LT	29641			44.4					
227+99.09 to 228+31.25	LT	30172			17.7					
231+50.92 to 231+92.82	LT	30320			38.0					
231+67.20 to 231+82.35	RT	35246			5.6					
220+29.78 to 220+33.78	LT	30407					10.4			
220+64.32 to 220+68.32	LT	30402					10.4			
221+85.93 to 221+87.88	LT	30396					9.5			
222+32.30 to 222+38.63	LT	30388					13.6			
223+14.20 to 223+19.16	LT	30383					11.7			
223+57.07 to 223+61.09	LT	20534					9.5			
223+70.54 to 223+75.67	LT	20539					9.5			
225+85.96 to 225+94.27	LT	20544					19.2			
226+39.90 to 226+50.98	LT	20552					20.5			
227+72.41 to 227+74.22	LT	20564					13.1			
228+00.02 to 228+05.63	LT	20558					12.2			
231+78.89 to 231+84.60	LT	20571					11.6			
231+96.13 to 231+99.56	RT	35177					7.9			
232+96.12 to 233+06.83	RT	35182					23.0			
233+04.86 to 233+13.67	LT	35165					19.6			
SUB-TOTAL:			668.1		396.2		201.7			
TOTAL:			668		396		202			

REVISIONS		
DATE	BY	DESCRIPTION

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WINTER SPRINGS, FLORIDA 32708
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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUMMARY OF QUANTITIES

SHEET NO.
SQ-8

SUMMARY OF PERFORMANCE TURF

LOCATION	SIDE	AREA ID	LENGTH	WIDTH	PERFORMANCE TURF (SOD) 0570 1 2 SY		DESIGN NOTES	CONSTRUCTION REMARKS
STA. TO STA.					P	F		
215+06.55 to 220+30.43	LT	32709			221.9			
21+673.28 to 220+36.06	LT	32726			442.7			
220+62.04 to 221+87.59	LT	32749			28.3			
220+67.67 to 221+87.31	LT	32742			207.3			
222+25.17 to 223+12.52	LT	32769			80.3			
222+38.67 to 223+13.96	LT	32756			90.2			
223+16.75 to 223+20.91	LT	32786			17.5			
223+54.53 to 223+58.76	LT	16562			14.4			
223+63.73 to 225+97.19	LT	16505			245.9			
223+84.74 to 225+17.41	MED	16568			121.2			
223+87.15 to 225+85.71	LT	32885			67.3			
225+89.24 to 225+97.19	LT	32805			3.5			
226+27.68 to 226+36.44	LT	32814			3.2			
226+33.15 to 227+64.43	LT	20595			171.1			
226+50.80 to 226+71.98	LT	16497			5.7			
227+49.17 to 227+73.71	LT	32797			13.1			
227+99.57 to 231+78.12	LT	20693			967.3			
228+05.87 to 231+87.96	LT	20663			170.7			
228+51.94 to 230+39.35	LT	20682			74.9			
231+77.28 to 231+98.92	LT	16441			33.1			
232+37.28 to 232+67.12	LT	16419			55.5			
217+48.57 to 231+80.18	RT	35039			422.5			
DRAINAGE STRUCTURES					9.0			
SUB-TOTAL:					3466.4			
TOTAL:					3466			

REVISIONS		
DATE	BY	DESCRIPTION

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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUMMARY OF QUANTITIES

SHEET NO.
SQ-9

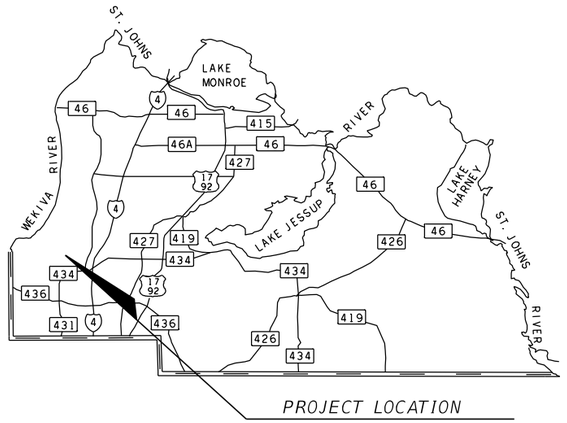
SEMINOLE COUNTY
ENGINEERING DIVISION

CONTRACT PLANS

SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE

WEKIVA SPRINGS ROAD
INTERSECTION IMPROVEMENTS
SEMINOLE COUNTY CIP No. 02007027
DISTRICT 3

SIGNING & PAVEMENT MARKING PLANS



INDEX OF SIGNING & PAVEMENT MARKING PLANS

SEMINOLE COUNTY ENGINEERING
PROJECT MANAGER: ANGELA CARDONA, P.E.
100 EAST FIRST STREET
SANFORD, FLORIDA 32771
407-665-5661

SIGNING & PAVEMENT MARKING SHOP DRAWINGS TO BE SUBMITTED TO:

FURSAN S. MUNJED, P.E.
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
PHONE 407-992-9160, X-302

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

90% SUBMITTAL
MARCH 29, 2022

BOARD OF COUNTY COMMISSIONERS

BOB DALLARI	DISTRICT 1
JAY ZEMBOWER	DISTRICT 2
LEE CONSTANTINE	**DISTRICT 3**
AMY LOCKHART	DISTRICT 4
ANDRIA HERR	DISTRICT 5

JOE ABEL, INTERIM COUNTY MANAGER

PUBLIC WORKS DIRECTOR: JEAN JREIJ, P.E.

SIGNING & PAVEMENT MARKING PLANS ENGINEER OF RECORD: FURSAN S. MUNJED, P.E.

P.E. NO.: 51446

FISCAL YEAR	SHEET NO.
21	S-1

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TABULATION OF QUANTITIES

BID ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS																GRAND TOTAL	
			S-4		S-5		S-6		S-7		S-8		S-9							
			ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL	ORIG.	FINAL
700-1-11	SINGLE POST SIGN - GROUND MOUNT (F&I) (UP TO 12 S.F.)	AS	1		4		4		5		6		5						25	
700-1-12	SINGLE POST SIGN - GROUND MOUNT (F&I) (12 TO 20 S.F.)	AS			1		1				4		1						7	
700-1-50	SINGLE POST SIGN (RELOCATE)	AS			2														2	
700-1-60	SINGLE POST SIGN (REMOVE)	AS	1		3		4		8		12		7						35	
700-1-99	BUSINESS SIGN (RELOCATE)	AS			1														1	
705-10-1	OBJECT MARKER (TYPE I)	EA			1				2		3		2						8	
706-1-3	RAISED PAVEMENT MARKERS, TYPE B, BI-DIRECTIONAL (WHITE/RED)	EA	10		28		31		39		22		8						138	
	RAISED PAVEMENT MARKERS, TYPE B, BI-DIRECTIONAL (YELLOW)	EA	28		30		2		21										81	
	RAISED PAVEMENT MARKERS, TYPE B, MONO-DIRECTIONAL (YELLOW)	EA			16				47		56		21						140	
710-11-290	PAINTED PAVEMENT MARKINGS (STANDARD) (YELLOW) (ISLAND NOSE)	SF			34				67		120		58						279	
711-11-123	THERMOPLASTIC PAVEMENT MARKINGS (STANDARD) (WHITE) (SOLID) (12" CROSSWALKS)	LF			805		335		1445										2605	
711-11-125	THERMOPLASTIC PAVEMENT MARKINGS (STANDARD) (WHITE) (SOLID) (24" STOP BARS)	LF			98		152		178		34								462	
711-11-141	THERMOPLASTIC PAVEMENT MARKINGS (STANDARD) (WHITE) (SKIP) (2'-4' SKIP DOT/GUIDE/6'-10' GAP EXT.) (6")	GM			0.019				0.051				0.029						0.099	
711-11-160	THERMOPLASTIC PAVEMENT MARKINGS (STANDARD) (WHITE) (MESSAGE/SYMBOL)	EA			4		4		2										10	
711-11-170	THERMOPLASTIC PAVEMENT MARKINGS (STANDARD) (WHITE) (ARROWS)	EA			7				7		3								17	
711-11-224	THERMOPLASTIC PAVEMENT MARKINGS (STANDARD) (YELLOW) (SOLID) (18" CHEVRONS)	LF	60		34				54										148	
711-11-241	THERMOPLASTIC PAVEMENT MARKINGS (STANDARD) (YELLOW) (SKIP) (2'-4' SKIP DOT/GUIDE/6'-10' GAP EXT.) (6")	GM							0.043		0.037		0.013						0.093	
711-16-101	THERMOPLASTIC PAVEMENT MARKINGS (STANDARD-OTHER) (WHITE) (SOLID) (6")	GM	0.113		0.277		0.200		0.255		0.125		0.061						1.031	
711-16-131	THERMOPLASTIC PAVEMENT MARKINGS (STANDARD-OTHER) (WHITE) (10'-30' SKIP or 3'-9' LANE DROP) (6")	GM	0.047		0.072		0.215		0.052		0.057		0.066						0.509	
711-16-201	THERMOPLASTIC PAVEMENT MARKINGS (STANDARD-OTHER) (YELLOW) (SOLID) (6")	GM	0.176		0.198		0.232		0.180		0.067		0.064						0.917	

REVISIONS		
DATE	BY	DESCRIPTION

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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TABULATION OF QUANTITIES

SHEET NO.
S-2

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GENERAL NOTES

1. ALL FINAL MARKINGS TO BE THERMOPLASTIC.

2. ALL MARKINGS LAYOUT SHALL BE APPROVED BY THE PROJECT MANAGER PRIOR TO INSTALLATION OF THERMOPLASTIC.

3. EXISTING MARKINGS NEEDING TO BE REMOVED SHALL BE REMOVED BY HYDRO-BLASTING.

4. IT SHOULD BE NOTED THAT EXISTING SIGNAGE REFLECTS INVENTORY DATA COLLECTED DURING PLANS PREPARATION AND IT IS POSSIBLE THAT ADDITIONAL SIGNS MAY BE PRESENT AT THE TIME OF CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE THE DISPOSITION OF SUCH SIGNS WITH THE ENGINEER.

5. THE PAVEMENT MARKINGS AT ALL EXISTING/PROPOSED INTERFACE LOCATIONS ARE TO MATCH IN TERMS OF ALIGNMENT AND COLOR.

6. SIGNING AND PAVEMENT MARKINGS ARE TO BE PLACED IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, THE PLANS, THE TRAFFIC DESIGN STANDARDS AND ADA REQUIREMENTS.

7. TYPE 2 POST MOUNTED OBJECT MARKERS SHALL BE PLACED AT ENDS OF ALL CROSS DRAINS. REFER TO ROADWAY PLANS FOR EXACT LOCATION OF CROSS DRAINS.

8. SIGNS THAT ARE TO BE REMOVED FROM THE PROJECT SHOULD BE STOCKPILED SEPARATELY FROM THOSE THAT ARE TO BE RELOCATED.

9. SIDE ROAD STOP BAR LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. EXACT LOCATIONS SHOULD BE DETERMINED BY THE ENGINEER DURING CONSTRUCTION IN ORDER TO ENSURE THE MAXIMUM AVAILABLE SIGHT DISTANCE.

10. ALL EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS SHALL BE TAKEN DOWN AND STOCKPILED WITHIN THE R/W LIMITS BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

11. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PICK UP AND DELIVER ALL STOCKPILED SIGNS TO SEMINOLE COUNTY TRAFFIC ENGINEERING 140 BUSH LOOP, SANFORD, FLORIDA, 32773.

12. THE CONTRACTOR SHALL VERIFY THE LENGTH OF SIGN COLUMN SUPPORTS IN THE FIELD PRIOR TO FABRICATION.

13. DUE TO TRACKING BY CONSTRUCTION VEHICLES, REPLACEMENT OF EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND END OF PROJECT MAY BE REQUIRED AT THE CONTRACTOR'S EXPENSE.

14. REFLECTIVE PAVEMENT MARKERS ARE TO BE PLACED IN ACCORDANCE WITH THESE PLANS AND ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX 706-001.

15. A 4 FOOT MINIMUM DISTANCE SHALL BE MAINTAINED BETWEEN ALL MARKED PEDESTRIAN CROSSINGS AND STOPBARS.

16. ALL MEDIAN MOUNTED SIGN SHOULD BE PLACED IN AN 18" x 18" MEDIAN CUT OUT TO MAKE SIGN REPLACEMENT POSSIBLE.

17. THERMOPLASTIC PAVEMENT MARKINGS SHALL NOT BE INSTALLED UNTIL THE FINAL ASPHALT SURFACE HAS CURED FOR 30 DAYS. TEMPORARY PAINT PAVEMENT MARKINGS SHALL BE INSTALLED DURING THE CURE PERIOD, AND PAYMENT SHALL BE INCLUDED IN THE BID PRICES FOR THERMOPLASTIC PAVEMENT MARKINGS.

18. CAUTION SHALL BE EXERCISED WHILE RELOCATING EXISTING SIGNS TO PREVENT UNNECESSARY DAMAGE TO SIGNS. IF THE SIGNS ARE DAMAGED BEYOND USE, AS DETERMINED BY THE SEMINOLE COUNTY ENGINEERING INSPECTOR, SIGNS SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE. ALL SIGNS SHALL REMAIN UNLESS OTHERWISE NOTED IN THE PLANS.

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
GENERAL NOTES

SHEET NO.
S-3

3:29:14 PM
3/28/2022
N:\Projects\SMC20053_Wekiva Springs Road\IIIIIII318\signing\GNNTSPOI.dgn

BEGIN PROJECT
BEGIN SIGNING & PAVEMENT MARKING
℄ CONST. WEKIVA SPRINGS RD.
MATCH EXISTING
STATION 215+06.55

R/W LINE

6" WHITE

6" WHITE (3'-9' SKIP)
W/W-R RPM'S @ 24' C.C.

℄ CONST. WEKIVA SPRINGS RD

6" YELLOW

+74

214 215 216 217 218 219

WEKIVA SPRINGS RD

+48

R 2600'

R 1922'

12'

12'±

6" DBL. YELLOW

R 1712'

18" YELLOW AT 45°
W/Y-Y RPM'S
(20' SPACING)

6" WHITE

MATCHLINE STA. 291+10.00

R/W LINE

R/W LINE

(TO REMAIN)

0 10 40
Feet

W11-15A MODIFIED
(36" X 36")
STA. 219+04
700-1-11 1 AS

(TO BE REMOVED)
700-1-60 1 AS

WILDLIFE CROSSING

WILDLIFE CROSSING

3:29:15 PM 3/28/2022

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REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SIGNING & PAVEMENT MARKING

SHEET NO.
S-4

Ⓐ
FLOURISH NUTRITION CENTRE &
PERSONAL TRAINING LIFE SHARERS
(BUSINESS SIGN) (TO BE RELOCATED)
STA. 223+05
700-1-99 1 AS

W4-2L (36" X 36")
STA. 221+00
700-1-11 1 AS

W9-2R (36" X 36")
STA. 222+70
700-1-11 1 AS

S1-1 (36" X 36") *
W16-7PL (24" X 12") *
STA. 223+14
700-1-11 1 AS
700-1-60 1 AS

(TO BE RELOCATED)
700-1-50 1 AS

(TO BE RELOCATED)
700-1-50 1 AS

S1-1 (36" X 36") *
W16-7PL (24" X 12") *
STA. 223+90
700-1-11 1 AS
700-1-60 1 AS

R3-4 (36" X 36")
R4-7 (24" X 30")
OM1-1 (18")
STA. 223+87
700-1-12 1 AS
700-1-60 1 AS
705-10-1 1 EA

0 10 40
Feet

R/W LINE
FOX VALLEY DR
6" WHITE (MATCH EXISTING)
6" WHITE W/W-R RPM'S @ 20' C.C.
24" WHITE
12" WHITE (6' WIDE) (3' C.C.)
6" WHITE (3'-9' SKIP) W/W-R RPM'S @ 24' C.C.
6" WHITE (10'-30' SKIP) W/W-R RPM'S @ 40' C.C.
6" DBL. YELLOW W/Y-Y RPM'S @ 40' C.C.
PAVEMENT MESSAGES (TYP.)
6" WHITE
WEKIVA SPRINGS RD
℄ CONST. WEKIVA SPRINGS RD
DIRECTIONAL ARROWS (TYP.)
18" YELLOW AT 45° W/Y-Y RPM'S (20' SPACING)
6" DBL. YELLOW
6" DBL. YELLOW W/Y-Y RPM'S @ 20' C.C.
12" WHITE (10' WIDE) (3' C.C.)
6" WHITE W/W-R RPM'S @ 20' C.C.
6" YELLOW
S 41° 21' 11" E
220
221
222
223
224
R 1922'
R 1910'
R 2886'
R 33'
R 64'
MATCHLINE STA. 291+10.00
MATCHLINE STA. 224+70.00
(TO REMAIN)
(TO REMAIN)

* FLUORESCENT YELLOW GREEN BACKGROUND

MEDIAN RPM'S & ISLAND NOSE PAINT TO BE PLACED IN ACCORDANCE WITH STANDARD PLANS INDEX 706-001.
706-1-3 (16 EA)
710-11-290 (34 SF)

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SIGNING & PAVEMENT MARKING

SHEET NO.
S-5

N:\Projects\SMC20053_Wekiva Springs Road\IIIIII318\signing\PLANSP02.dgn 3/28/2022 3:29:16 PM

0 10 40
Feet

(TO BE REMOVED)
700-1-60 1 AS

R1-1 (36" X 36")
R3-5R (30" X 36")
STA. 227+51
700-1-12 1 AS

(TO REMAIN)

(TO BE REMOVED)
700-1-60 1 AS

W9-1L (36" X 36")
STA. 225+50
700-1-11 1 AS

S1-1 (36" X 36") *
W16-9P (24" X 12") *
STA. 227+12
700-1-11 1 AS

LEFT LANE ENDS
AHEAD
ONLY
STOP
STOP
STOP

R/W LINE
24" WHITE
12" WHITE (8' WIDE) (3' C.C.)
6" WHITE
6" DBL. YELLOW W/Y-Y RPM'S @ 40' C.C.
6" WHITE (10'-30' SKIP) W/W-R RPM'S @ 40' C.C.
6" YELLOW
24" WHITE
6" WHITE W/W-R RPM'S @ 20' C.C.
PAVEMENT MESSAGES (TYP.)
℄ CONST. WEKIVA SPRINGS RD
SCHOOL ZONE
SCHOOL ZONE
WEKIVA SPRINGS RD
6" WHITE (10'-30' SKIP) W/W-R RPM'S @ 40' C.C.
R/W LINE
R/W LINE
R/W LINE

+14 +74 +97 +86 +89 +48 +80 +97 +06 +35 +49 +10 +26 +17 +43 +48

11' 11'

225 226 227 228 229 230

S 41° 15' 20" E

MATCHLINE STA. 224+70.00
MATCHLINE STA. 230+30.00

SPEED LIMIT 35
(TO BE REMOVED)
700-1-60 1 AS

SPEED LIMIT 35
R2-1 (30" X 36")
STA. 226+00
700-1-11 1 AS

(TO BE REMOVED)
700-1-60 1 AS

AHEAD
S1-1 (36" X 36") *
W16-9P (24" X 12") *
STA. 228+17
700-1-11 1 AS

* FLUORESCENT YELLOW GREEN BACKGROUND

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REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

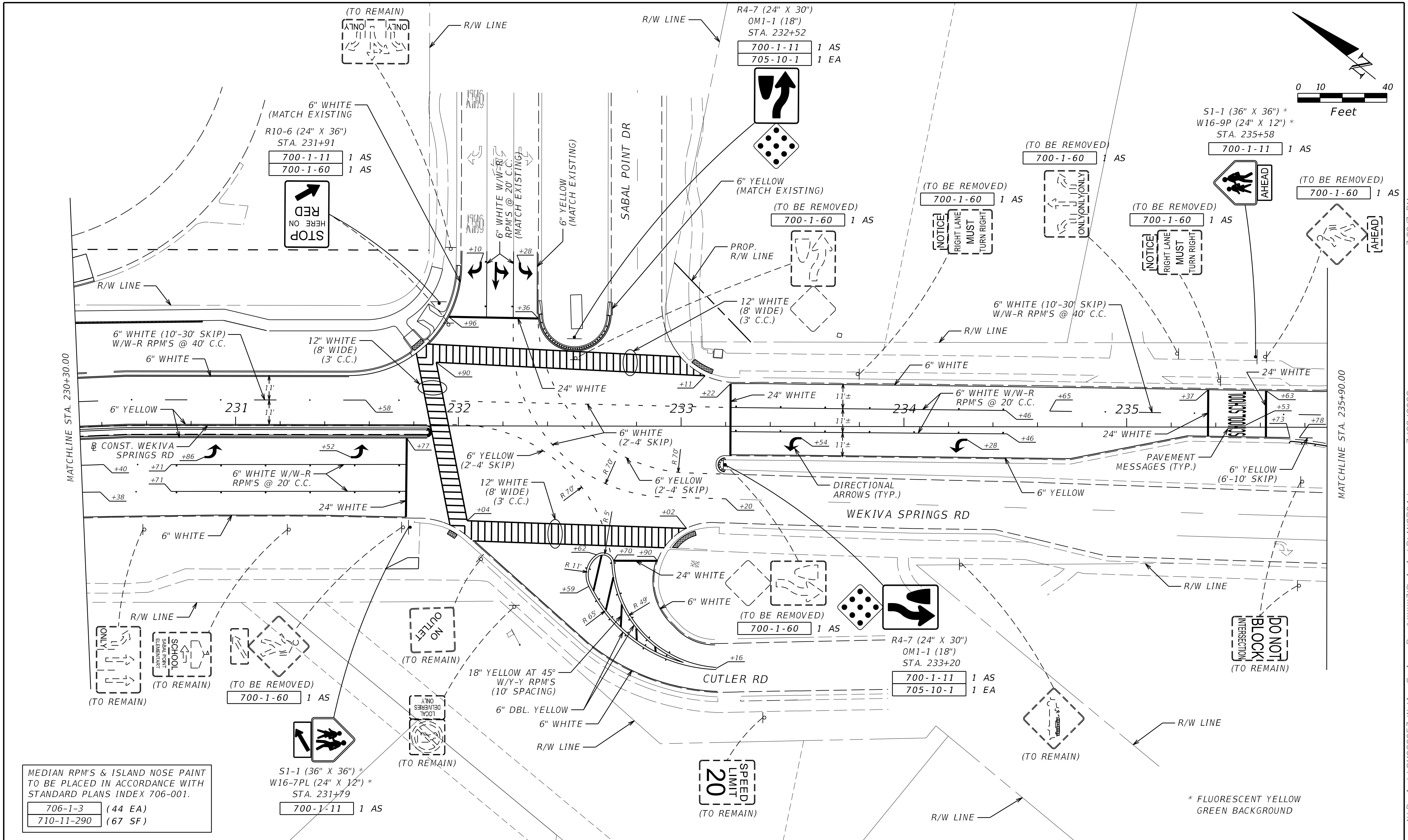
Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SIGNING & PAVEMENT MARKING

SHEET NO.
S-6


(TO REMAIN)
R/W LINE
R4-7 (24" X 30")
OM1-1 (18")
STA. 232+52
700-1-11 1 AS
705-10-1 1 EA
0 10 40
Feet
6" WHITE
(MATCH EXISTING
R10-6 (24" X 36")
STA. 231+91
700-1-11 1 AS
700-1-60 1 AS
STOP HERE ON RED
6" WHITE W/W-R RPM'S @ 20' C.C. (MATCH EXISTING)
6" YELLOW (MATCH EXISTING)
SABAL POINT DR
6" YELLOW
(MATCH EXISTING)
(TO BE REMOVED)
700-1-60 1 AS
NOTICE RIGHT LANE MUST TURN RIGHT
S1-1 (36" X 36") *
W16-9P (24" X 12") *
STA. 235+58
700-1-11 1 AS
AHEAD
PROP. R/W LINE
R/W LINE
12" WHITE
(8' WIDE)
(3' C.C.)
6" WHITE (10'-30' SKIP)
W/W-R RPM'S @ 40' C.C.
6" WHITE
24" WHITE
6" WHITE W/W-R
RPM'S @ 20' C.C.
231
232
233
234
235
6" YELLOW
℄ CONST. WEKIVA SPRINGS RD
6" YELLOW
(2'-4' SKIP)
PAVEMENT MESSAGES (TYP.)
6" YELLOW
(6'-10' SKIP)
DIRECTIONAL ARROWS (TYP.)
WEKIVA SPRINGS RD
MATCHLINE STA. 230+30.00
MATCHLINE STA. 235+90.00
SCHOOL
18" YELLOW AT 45°
W/Y-Y RPM'S
(10' SPACING)
6" DBL. YELLOW
CUTLER RD
NO OUTLET
SPEED LIMIT 20
LOCAL DELIVERIES ONLY
DO NOT BLOCK INTERSECTION
S1-1 (36" X 36") *
W16-7PL (24" X 12") *
STA. 231+79
700-1-11 1 AS
R4-7 (24" X 30")
OM1-1 (18")
STA. 233+20
700-1-11 1 AS
705-10-1 1 EA
MEDIAN RPM'S & ISLAND NOSE PAINT TO BE PLACED IN ACCORDANCE WITH STANDARD PLANS INDEX 706-001.
706-1-3 (44 EA)
710-11-290 (67 SF)
* FLUORESCENT YELLOW GREEN BACKGROUND
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REVISIONS	
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

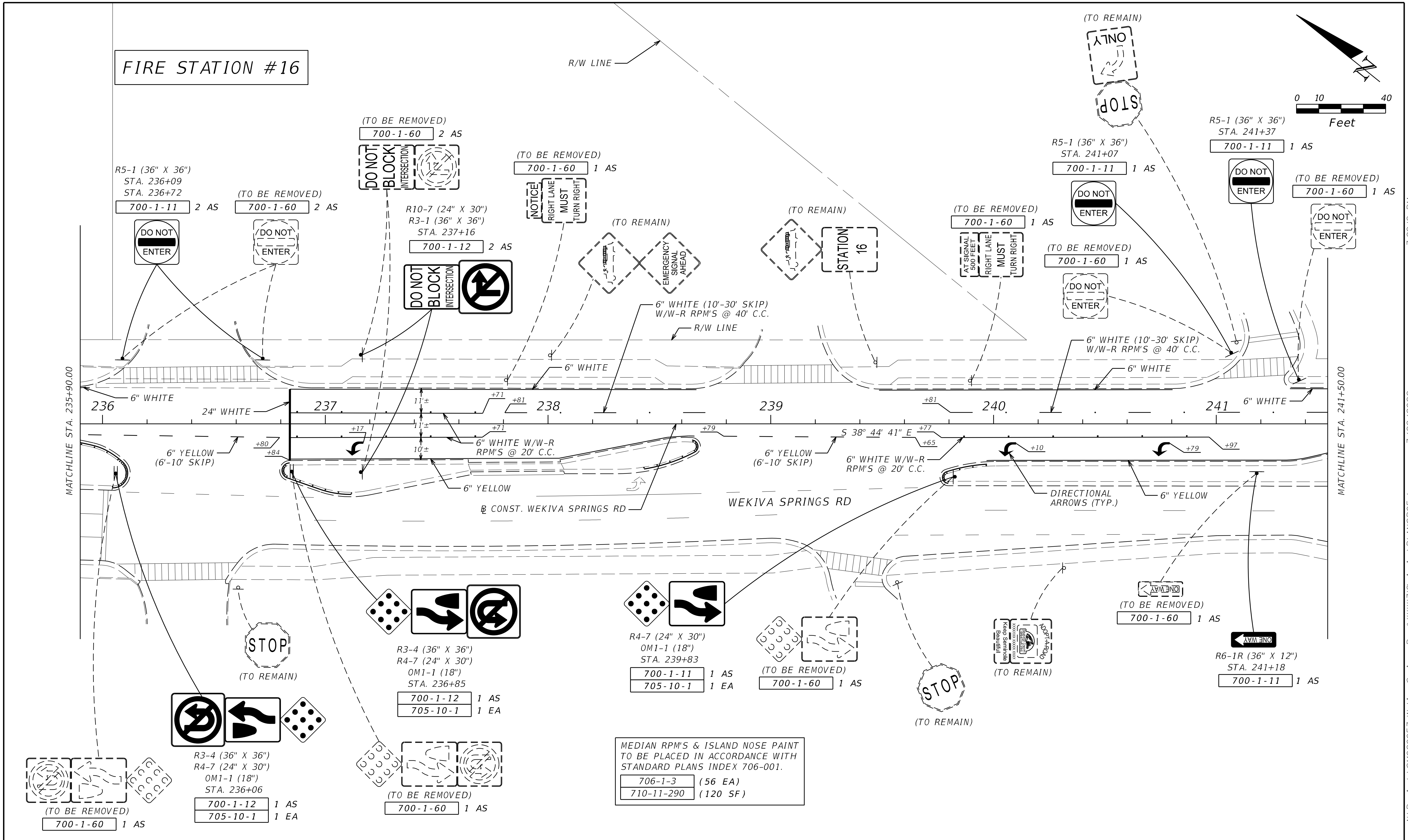
Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SIGNING & PAVEMENT MARKING

SHEET NO.
S-7



REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SIGNING & PAVEMENT MARKING

SHEET NO.
S-8

END PROJECT
END SIGNING & PAVEMENT MARKING
℄ CONST. WEKIVA SPRINGS RD.
MATCH EXISTING
STATION 245+44.43

0 10 40
Feet

(TO BE REMOVED)
700-1-60 1 AS

R3-1 (36" X 36")
STA. 241+60
700-1-11 1 AS

(TO REMAIN)
STOP

(TO BE REMOVED)
700-1-60 1 AS
AT SIGNAL 900 FEET
RIGHT LANE MUST TURN RIGHT

(TO BE REMOVED)
700-1-60 2 AS
DO NOT BLOCK INTERSECTION

R10-7 (24" X 30")
STA. 245+68
700-1-11 2 AS
DO NOT BLOCK INTERSECTION

(TO REMAIN)

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

MATCHLINE STA. 241+50.00

242 243 244 245 246 247

+28 +62 +71 +33 +62 +16

11'± 11'±

6" YELLOW
6" YELLOW
(6'-10' SKIP)
6" YELLOW

℄ CONST. WEKIVA SPRINGS RD

WEKIVA SPRINGS RD

ONE WAY
R6-1R (36" X 12")
STA. 243+30
700-1-11 1 AS

ONE WAY
(TO BE REMOVED)
700-1-60 1 AS

(TO REMAIN)

R4-7 (24" X 30")
OM1-1 (18")
STA. 244+47
700-1-11 1 AS
705-10-1 1 EA

(TO BE REMOVED)
700-1-60 1 AS

R3-4 (36" X 36")
R4-7 (24" X 30")
OM1-1 (18")
STA. 245+31
700-1-12 1 AS
705-10-1 1 EA

(TO BE REMOVED)
700-1-60 1 AS

MEDIAN RPM'S & ISLAND NOSE PAINT TO BE PLACED IN ACCORDANCE WITH STANDARD PLANS INDEX 706-001.

706-1-3	(21 EA)
710-11-290	(58 SF)

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SIGNING & PAVEMENT MARKING

SHEET NO.
S-9

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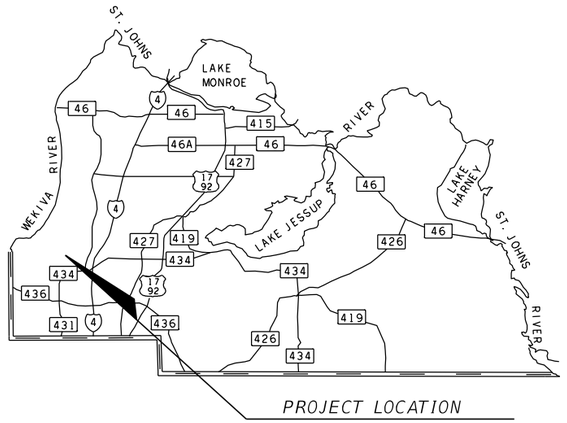
SEMINOLE COUNTY
ENGINEERING DIVISION

CONTRACT PLANS

SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE

WEKIVA SPRINGS ROAD
INTERSECTION IMPROVEMENTS
SEMINOLE COUNTY CIP No. 02007027
DISTRICT 3

SIGNALIZATION PLANS



INDEX OF SIGNALIZATION PLANS

SEMINOLE COUNTY ENGINEERING
PROJECT MANAGER: ANGELA CARDONA, P.E.
100 EAST FIRST STREET
SANFORD, FLORIDA 32771
407-665-5661

SIGNALIZATION SHOP DRAWINGS
TO BE SUBMITTED TO:

FURSAN S. MUNJED, P.E.
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
PHONE 407-992-9160, X-302

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

90% SUBMITTAL
MARCH 29, 2022

BOARD OF COUNTY COMMISSIONERS

BOB DALLARI	DISTRICT 1
JAY ZEMBOWER	DISTRICT 2
LEE CONSTANTINE	**DISTRICT 3**
AMY LOCKHART	DISTRICT 4
ANDRIA HERR	DISTRICT 5

JOE ABEL, INTERIM COUNTY MANAGER

PUBLIC WORKS DIRECTOR: JEAN JREIJ, P.E.

SIGNALIZATION PLANS
ENGINEER OF RECORD: FURSAN S. MUNJED, P.E.

P.E. NO.: 51446

FISCAL YEAR	SHEET NO.
21	T-1

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TABULATION OF QUANTITIES

PAY ITEM NO.	DESCRIPTION	UNIT	SHEET NUMBERS										GRAND TOTAL		REF. SHEET
			T-4		T-5		T-6		T-7		T-19 - T-20				
			PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	PLAN	FINAL	
630-2-11	CONDUIT (F&I), (OPEN TRENCH) (UNDERGROUND)	LF	605				675				20		1300		
630-2-12	CONDUIT (F&I), (DIRECTIONAL BORE) (UNDERGROUND OR UNDERPAVEMENT)	LF	265				820				1560		2645		
630-2-14	CONDUIT (F&I), (ABOVEGROUND)	LF									40		40		
632-7-1	SIGNAL CABLE WITHIN INTERSECTION (F&I)	PI	1				1						2		
632-7-6	SIGNAL CABLE WITHIN INTERSECTION (REMOVE)	PI	1				1						2		
633-1-122	FIBER OPTIC CABLE (F&I) (UNDERGROUND) (13 TO 48 FIBERS) (24 SM)	LF									215		215		
633-1-123	FIBER OPTIC CABLE (F&I) (UNDERGROUND) (49 TO 96 FIBERS) (72 SM)	LF									2600		2600		
633-1-620	FIBER OPTIC CABLE (REMOVE) (UNDERGROUND)	LF									1610		1610		
633-2-31	FIBER OPTIC CONNECTION (INSTALL) (SPLICE)	EA									168		168		
633-2-32	FIBER OPTIC CONNECTION (INSTALL) (ST CONNECTORS)	EA									12		12		
633-3-11	FIBER OPTIC CONNECTION HARDWARE (F&I) (SPLICE ENCLOSURE)	EA									5		5		
633-3-12	FIBER OPTIC CONNECTION HARDWARE (F&I) (SPLICE TRAY)	EA									15		15		
635-2-11	PULL & SPLICE BOXES (F&I) (13" X 24" COVER SIZE) (W/APRON)	EA	11				13						24		
635-2-12	PULL & SPLICE BOXES (F&I) (24" X 36" COVER SIZE)	EA					5				3		8		
635-2-13	PULL & SPLICE BOXES (F&I) (36" ROUND VAULT) (W/APRON)	EA									4		4		
639-1-122	ELECTRICAL POWER SERVICE (F&I) (UNDERGROUND) (PURCHASED BY CONTRACTOR FROM POWER COMPANY)	AS					1						1		
639-2-1	ELECTRICAL SERVICE WIRE (F&I)	LF					100						100		
641-2-12	PRESTRESSED CONCRETE POLE (F&I) (TYPE P-II SERVICE POLE)	EA					1						1		
641-2-60	PRESTRESSED CONCRETE POLE (COMPLETE REMOVAL) (PEDESTAL/SERVICE POLE)	EA					1						1		
646-1-11	ALUMINUM SIGNALS POLE (F&I) (PEDESTAL)	EA	3				6						9		
646-1-60	ALUMINUM SIGNALS POLE (REMOVE)	EA	2										2		
647-B	GEOTECHNICAL TESTING	PI					1						1		
647-F	FOUNDATION INSPECTION	PI					1						1		
648-1C	MAST ARM FOUNDATION (F&I)	LF					120						120		
648-11-50NF-4	MAST ARM ASSEMBLY (F&I) SINGLE ARM (TYPE 4) (50' ARM) (W/LUMINAIRE)	EA					1						1		
648-11-60NF-4	MAST ARM ASSEMBLY (F&I) SINGLE ARM (TYPE 4) (60' ARM) (W/LUMINAIRE)	EA					2						2		
648-11-70NF-4	MAST ARM ASSEMBLY (F&I) SINGLE ARM (TYPE 4) (70' ARM) (W/LUMINAIRE)	EA					1						1		
649-26-3	STEEL MAST ARM ASSEMBLY (REMOVE) (SHALLOW, BOLT ON ATTACHMENT)	EA					4						4		
650-1-14	TRAFFIC SIGNAL (F&I) (ALUMINUM) (3-SECTION, 1-WAY)	AS							7				7		
650-1-16	TRAFFIC SIGNAL (F&I) (ALUMINUM) (4-SECTION, 1-WAY)	AS							2				2		
650-1-19	TRAFFIC SIGNAL (F&I) (ALUMINUM) (5-SECTION, 1-WAY)	AS							2				2		
650-1-70	TRAFFIC SIGNAL (RELOCATE)	AS			2								2		
653-1-11	PEDESTRIAN SIGNAL (F&I) (LED-COUNTDOWN) (1 WAY)	AS			3				6				9		
660-2-102	LOOP ASSEMBLY (F&I) (TYPE B)	AS	3				4						7		
660-2-106	LOOP ASSEMBLY (F&I) (TYPE F)	AS	3				6						9		
663-1-112	SIGNAL PRIORITY AND PREEMPTION SYSTEM, (F&I) (OPTICAL) (DETECTOR)	EA					4						4		
663-1-600	SIGNAL PRIORITY AND PREEMPTION SYSTEM (OPTICOM) (REMOVE)	EA					1						1		
665-1-11	DETECTOR, PEDESTRIAN (F&I) (STANDARD)	EA			3				6				9		
670-5-400	TRAFFIC CONTROLLER ASSEMBLY (MODIFY)	AS	1				1						2		
682-1-113	CCTV CAMERA, F&I, PTZ DOME ENCLOSURE PRESSURIZED, IP, HIGH DEFINTION	EA					1						1		
700-3-201	SIGN PANEL (F&I, OVERHEAD MOUNT) (UP TO 12 SF)	EA							4				4		
700-5-22	INTERNALLY ILLUMINATED SIGN (F&I, OVERHEAD MOUNT) (STREET NAME)	EA							4				4		
700-5-50	INTERNALLY ILLUMINATED SIGN (RELOCATE)	EA			1								1		
700-11-391	ELECTRONIC DISPLAY SIGN (F&I - OVERHEAD MOUNT - AC POWERED) (BLANK OUT SIGN) (UP TO 12 SF)	AS							3				3		
700-11-500	ELECTRONIC DISPLAY SIGN (RELOCATE)	AS			1								1		
715-11-114A	LUMINAIRE, SHOE BOX, LED (F&I)	EA					4						4		

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
TABULATION OF QUANTITIES

SHEET NO. T-2

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3/28/2022
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GENERAL

1. UNLESS OTHERWISE NOTED ALL REMOVED EQUIPMENT SHALL BE TURNED OVER TO SEMINOLE COUNTY AT 140 BUSH LOOP, SANFORD, FL, 32773 AS DIRECTED BY THE ENGINEER, EXCEPT CONCRETE POLES, WHICH SHALL BE DISPOSED OF BY THE CONTRACTOR. CONTRACTOR TO NOTIFY SEMINOLE COUNTY (CHARLES WETZEL, P.E. @ 407-665-5670) 2 BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION.
2. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING, DIRECTIONAL BORING, OR TRENCHING. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO EXAMINE THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS IN ACCORDANCE WITH SECTION 2-4 OF THE SPECIFICATIONS.
3. THE CONTRACTOR SHALL HAND DIG THE FIRST 4 FEET AT EACH POLE LOCATION AND THE FIRST 2 FEET AT EACH PEDESTAL LOCATION TO VERIFY NO UTILITY CONFLICTS.
4. THE CONTRACTOR SHALL VERIFY COLOR CODES FOR BOTH SIGNAL CABLE AND INTERCONNECT CABLE WITH SEMINOLE COUNTY BEFORE ORDERING.
5. THE CONTRACTOR IS REQUIRED TO INSPECT THE INSTALLATION OF THE TRAFFIC SIGNALS IN ACCORDANCE WITH FDOT SPECIFICATION 105-8.10. THE CONTRACTOR SHALL COORDINATE THE FINAL ACCEPTANCE INSPECTION IN ACCORDANCE WITH FDOT SPECIFICATION 611-2.2 WITH THE ENGINEER AT LEAST TEN DAYS IN ADVANCE. SEMINOLE COUNTY AND TRAFFIC SIGNAL QUALITY ASSURANCE MANAGER AT (386) 943-5318 SHOULD ALSO BE CONTACTED TEN DAYS BEFORE THE INSPECTION IS TO BE PERFORMED SO THEY MAY BE PRESENT.
6. THE CONTRACTOR SHALL MAINTAIN THE EXISTING TRAFFIC SIGNALS DURING THIS PROJECT.
7. THE CONTRACTOR HAS THE OPTION TO USE DIRECTIONAL BORE AS THE CONDUIT INSTALLATION METHOD FOR PAY ITEM 630-2-11.
8. THE LOCAL (PERMIT MANAGER/PROJECT ADMINISTRATOR) SHOULD BE INFORMED TWO BUSINESS DAYS BEFORE ANY DIRECTIONAL BORES.
9. IN THE EVENT PERMANENT VEHICLE DETECTION IS DISRUPTED, PROVIDE AN ALTERNATIVE MEANS OF DETECTION TO ALL LANES APPROACHING THE INTERSECTION, SEPARATING EACH MOVEMENT WHICH PREVIOUSLY HAD DETECTION. THE TYPE OF DETECTOR SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. EQUIPMENT SHALL ONLY DETECT THE INTENDED MOVEMENT.
10. FOR ADDITIONAL DETAILS OF TRAFFIC SIGNAL INSTALLATIONS FOR THIS PROJECT SEE FDOT STANDARD PLANS, DATED 2021-22, INDEX NOS. 659-010, 630-001, 634-001, 639-002, 653-001, 660-001, 665-001, 676-010, AND 671-001.
11. THE CONTRACTOR SHALL NOTIFY ALL UTILITIES AT LEAST 2 BUSINESS DAYS IN ADVANCE OF ANY OPERATION THAT MAY CONFLICT WITH OVERHEAD OR UNDERGROUND UTILITIES.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES PRIOR TO CONSTRUCTION.
13. THE MAINTENANCE OF SIGNALS, OTHER THAN TIMINGS SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR, FROM THE TIME CONTRACT WORK BEGINS UNTIL FINAL ACCEPTANCE BY SEMINOLE COUNTY, ON A BY INTERSECTION BASIS. THE CONTRACTOR SHALL HAVE A I.M.S.A. LEVEL 2 SIGNAL TECHNICIAN ON SITE THROUGH ALL PHASES OF CONSTRUCTION AND ON CALL WITH A 2 HOUR MAXIMUM RESPONSE TIME.
14. A TRAFFIC CONTROL OFFICER SHALL BE PRESENT TO DIRECT TRAFFIC WHEN THE CONTRACTOR IS WORKING ON THE SIGNAL WITHIN THE INTERSECTION.
15. TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH THE FDOT STANDARD PLANS, DATED 2021-22. ATTENTION IS DIRECTED TO THE INDEX 102 SERIES.
16. A CLEARANCE OF NO LESS THAN 17'- 6" SHALL BE MAINTAINED BETWEEN THE SIGNAL HEADS AND THE ROADWAY.
17. SIGNAL CABLE AND LOOP WIRE ARE NOT TO BE IN THE SAME PULL BOX.
18. LANE CLOSURES WILL BE PERMITTED ONLY DURING ACTIVE WORK PERIODS WHEN THE LANE CLOSURE IS NEEDED TO ACCOMPLISH THE WORK. NO LONG TERM LANE CLOSURES WILL BE PERMITTED. NO LANE CLOSURES WILL BE PERMITTED DURING BUSY TRAFFIC HOURS, BETWEEN THE HOURS OF 6 AM - 9 PM.
19. THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS AND ATTACHMENT HEIGHTS PRIOR TO ORDERING AND FABRICATION OF POLES.
20. ALL VEHICLE AND PEDESTRIAN DISPLAYS, STREET IDS, LUMINAIRES AND BLANK OUT SIGNS SHALL BE L.E.D. ALL PEDESTRIAN SIGNAL HEADS SHALL BE COUNTDOWN TYPE.
21. ALL INSTALLATIONS TO BE AS PER SEMINOLE COUNTY AND FDOT STANDARDS.
22. ALL EQUIPMENT/MATERIALS TO BE APPROVED BY SEMINOLE COUNTY TRAFFIC ENGINEERING AND FDOT.
    A. ALL SIGNAL HEADS TO BE ALUMINUM WITH TUNNEL VISORS.
    B. ALL PULL BOXES TO BE 20K RATED NON-METALLIC, LOCATED A MINIMUM OF 10' FROM RADII AND 10' OFF EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
23. DELAY TIMES SHALL BE SET TO 5 SECONDS.
24. PRIOR TO FINAL INSPECTION, THE CONTRACTOR SHALL FURNISH SEMINOLE COUNTY AND FDOT ONE SET EACH OF CONSTRUCTION AS-BUILT PLANS.
25. EXISTING LOOPS DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
26. ALL CABLES WILL HAVE THREE SPARE CONDUCTORS.
27. ALL POLES, FOUNDATIONS, AND CABINET ASSEMBLIES SHALL HAVE 50' OF GROUND ROD AND BE BONDED IN THE SIGNAL PULL BOX NEXT TO THE TRAFFIC SIGNAL CABINET
28. THE CABINET FOUNDATION PAD SHALL BE NO MORE THAN 4" ABOVE SURROUNDING GRADE.

PED FEATURES

1. THREE (3) SPARE CONDUCTORS ARE TO BE RUN TO THE FURTHEST PEDESTRIAN SIGNAL HEAD.
2. CONTRACTOR TO ENSURE THAT A 4-FOOT X 4-FOOT FLAT LANDING AREA IS ADJACENT TO ALL DETECTORS FOR PEDESTRIAN ACCESS. THESE LANDING AREAS SHALL COMPLY WITH ADA STANDARDS.
3. ALL PEDESTRIAN DETECTORS SHALL BE POLARA ENGINEERING BRAND VANDAL RESISTANT PUSH BUTTON OR APPROVED EQUIVALENT.

MAST ARMS

1. IF A CONTINUOUS RUN OF SIGNAL CABLE IS NOT POSSIBLE FROM THE CABINET TO THE SIGNAL HEAD, THEN A TERMINAL BLOCK SHALL BE USED. (THIS SHALL BE VERIFIED WITH THE MAINTAINING AGENCY, AS SOME AGENCIES PREFER CONTINUOUS WIRING TO THE SIGNAL HEADS)
2. SIX FEET OF ADDITIONAL SIGNAL CABLE SLACK SHALL BE WOUND AND NEATLY STORED INSIDE THE UPRIGHT AND SUPPORTED BY THE CABLE CLAMP SUCH THAT THE TERMINAL BLOCK CAN BE REMOVED FROM THE UPRIGHT TO ALLOW FOR TROUBLE SHOOTING.
3. THE CABLE GRIP SHALL BE OF SUFFICIENT SIZE TO NOT COMPROMISE THE INSULATION ON THE SIGNAL CABLE.
4. FOR MISCELLANEOUS STRUCTURES THAT HAVE BEEN COMPLETED AND SCHEDULED FOR ACCEPTANCE, THE CONTRACTOR SHALL CONTACT DISTRICT FIVE STRUCTURES MAINTENANCE OFFICE AT (386) 740-3463 ONE MONTH PRIOR TO COMPLETION OF PROJECT TO SCHEDULE AN INSPECTION OF STRUCTURES INCLUDING" CABLE SIGNS, CANTILEVER SIGNS, TRUSS SIGNS, HIGH MAST LIGHT POLES, ITS, DMS AND TRAFFIC SIGNAL MAST ARMS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPLYING APPROVED SHOP DRAWINGS SHOWING THE BOLT PATTERN AND ARM ORIENTATION PRIOR TO THE PRE-DRILL SHAFT MEETING.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A CERTIFIED DRILLED SHAFT CTQP LEVEL I CONSTRUCTION ENGINEERING AND INSPECTION (CEI) FIRM, AND A CONCRETE TESTING LABORATORY FOR THE PURPOSE OF INSPECTING ALL DRILLED SHAFT INSTALLATION PER FDOT STANDARDS. THE FIRM SHALL THEN SUBMIT A SIGNED AND SEALED REPORT VERIFIED BY THE P.E. IN RESPONSIBLE CHARGE OF THE DRILLED SHAFT INSPECTOR TO THE DEPARTMENT FOR APPROVAL. FAILURE TO OBTAIN THESE SERVICES PRIOR TO THE CONSTRUCTION OF THE DRILLED SHAFT(S) SHALL RESULT IN THE REJECTION OF THE DRILLED SHAFT(S).
7. THE TOP OF THE TRAFFIC SIGNAL MAST ARM FOUNDATION SHOULD BE AT LEAST 6 INCHES ABOVE GRADE TO PREVENT THE ANCHOR BOLTS FROM BEING SUBMERGED IN WATER AND/OR BURIED, UNLESS IT'S ADJACENT TO AN EXISTING, OR PROPOSED SIDEWALK, THEN THE TOP OF THE FOUNDATION SHOULD BE FLUSH WITH THE SIDEWALK

PULL BOXES

1. PULL BOXES AND COVERS SHALL BE NON-METALLIC CONSTRUCTION WITH RECESSED COVER LOGO "TRAFFIC SIGNAL" OR "FIBER OPTIC" AS APPROPRIATE.

SIGNAL HEADS

1. ALL VEHICULAR SIGNAL HEAD ASSEMBLIES SHALL BE ALUMINUM.

PAY ITEM NOTES

1. PAY ITEM NO. 635-2-11 SHALL INCLUDE REMOVAL AND RESTORATION OF CONCRETE SIDEWALK NECESSARY TO INSTALL THE PULL BOXES.
2. PAY ITEM NO. 646-1-11 TO INCLUDE A BREAK AWAY BASE AND SLIP FOOTER.
3. PAY ITEM NO. 665-1-11 INCLUDES FTP-68B-06.

FIELD TESTS

1. THE CONTRACTOR SHALL HAVE A QUALIFIED REPRESENTATIVE PRESENT AT ALL INSPECTIONS. FOR FDOT SIGNALS, A SIGNAL INSPECTION IS TO BE SCHEDULED WITH FDOT TRAFFIC SIGNAL QUALITY ASSURANCE MANAGER (386) 943-5318, OF TRAFFIC OPERATIONS, 10 DAYS PRIOR TO THE SIGNAL BEING PLACED IN TO OPERATION. SHOULD THE CONTRACTOR REQUEST AN INSPECTION AND THE CONTRACTOR IS NOT PREPARED FOR THE INSPECTION, THE CONTRACTOR WILL BE BACK CHARGED FOR THE CONSULTANT INSPECTOR'S TIME. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A 90 DAY WARRANTY PERIOD AS OUTLINED IN FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION DATED JANUARY 2022.
2. SEMINOLE COUNTY HAS UNIQUE PHASING. ALL INTERSECTIONS SHALL BE BUILT TO SEMINOLE COUNTY STANDARDS. CALL TRAFFIC SIGNAL SHOP AT 407-665-5680 FOR FURTHER INFORMATION.
3. ALL SIGNAL HEADS, PEDESTRIAN HEADS AND PEDESTRIAN BUTTONS SHALL HAVE WEEP HOLES.
4. THE LUMINARIES / ILLUMINATED STREET I.D.S SHALL BE L.E.D. AND POWERED FROM A SEPARATE BREAKER LOCATED IN THE BREAKER BOX; NOT THE SIGNAL CABINET. ALL PHOTOCELLS SHALL BE MOUNTED ON THE BREAKER BOX AND BE 15 AMPERE CAPACITY MINIMUM. ALL ILLUMINATED STREET I.D.'S SHALL BE MOUNTED PERPENDICULAR TO THE ROADWAY. ON DIAGONAL MAST ARMS, SWIVEL BRACKETS SHOULD BE USED.

UTILITY OWNERS:

ZAYO GROUP/FORMERLY LIGHTWAVE LLC
MATT RICHARDS
(813) 587-2584

MCI/VERIZON
INVESTIGATIONS@VERIZON.COM
(469) 886-4091

AT&T DISTRIBUTION
ALAN REYNOLDS
(407) 351-8180

SEMINOLE COUNTY UTILITIES
PAUL ZIMMERMAN
(407) 665-2040

SEMINOLE COUNTY TRAFFIC ENGINEERING
JOHN BROWN
(407) 665-5644

UTILITIES INC. OF FLORIDA
BRYAN GONGRE
(866) 842-8432

CHARTER COMMUNICATIONS
LAZLO WAGNER
(407) 215-5716

BLACK & VEATCH
JOHN WALKER
(913) 458-2516

CENTURYLINK
MARLON BROWN
(407) 830-3359

DUKE ENERGY
DEFDISTRIBUTIONGOV@DUKE-ENERGY.COM

DUKE ENERGY
DEFTRANSMISSIONGOV@DUKE-ENERGY.COM

$TIME$

$DATE$

$FILE$

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

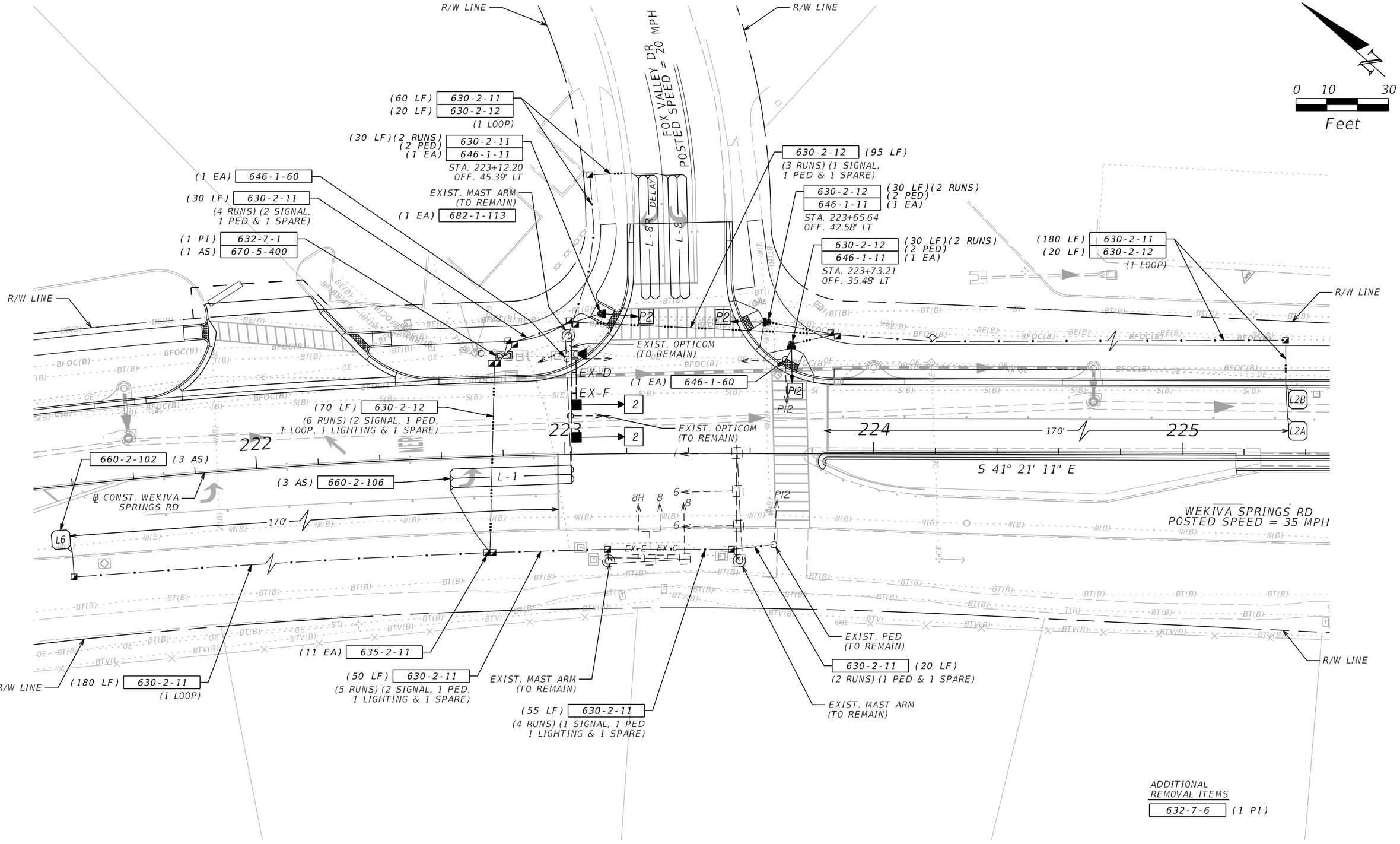
Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
GENERAL NOTES

SHEET NO.
T-3



REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SIGNALIZATION PLAN

SHEET NO.
T-4

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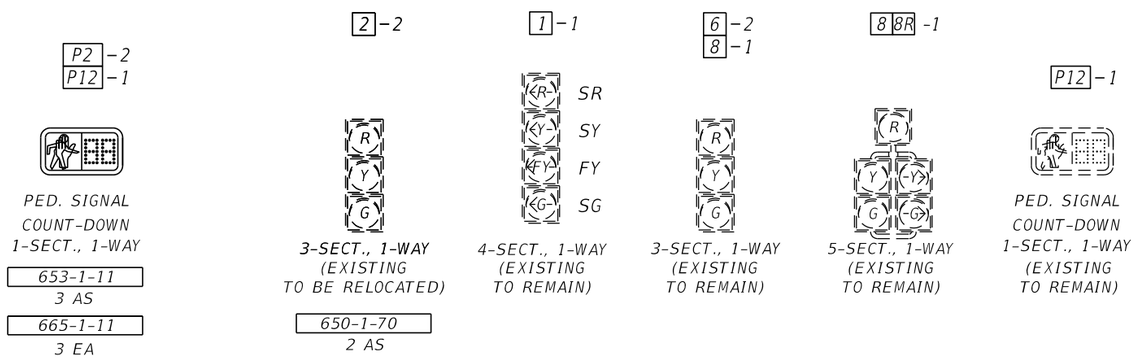
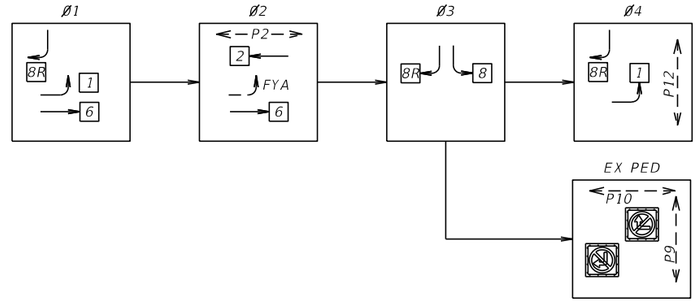
SIGNAL HEAD DETAILS

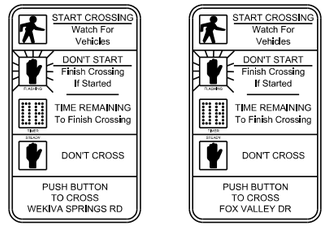


MOVEMENT CHART SPECIAL S.O.P.



NOTE: MAINTAIN EXISTING PHASING INCLUDING SCHOOL RELEASE.

PEDESTRIAN SIGN DETAILS



* CONTRACTOR SHALL VERIFY STREET NAMES PRIOR TO FABRICATION.

EXISTING CONTROLLER TIMINGS

TIMING FUNCTION								
MOVEMENT NUMBER		1	2	6	8	9	10	12
TIMING FUNCTION	MINIMUM GREEN	6	15	15	6			
	EXTENSION	3.0	5.0	5.0	4.0			
	MAXIMUM GREEN 1	15	100	100	20			
	MAXIMUM GREEN 2							
	YELLOW CLEARANCE	4.1	4.1	4.1	3.4			
	ALL RED	2.0	2.0	2.0	2.1	3.0	3.0	
	PEDESTRIAN WALK		7			18	18	7
	PED. CLEARANCE		15			16*	16*	16*
	RECALL		MIN	MIN				

* UPDATED TIMINGS

DETECTORS FOR LOOPS

LOOP	NO. OF LOOPS	NO. OF NEW DETS.	CHANNEL NO.	DELAY TIME (SEC)
L-1	1	EXIST.	EXIST.	-
L-(2A&B)	2	EXIST.	EXIST.	-
L-6	1	EXIST.	EXIST.	-
L-8	1	EXIST.	EXIST.	-
L-8R	1	EXIST.	EXIST.	5

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

EXISTING OVERHEAD SIGNS (TO REMAIN)

EX-C (EXISTING TO REMAIN)

FIBER OPTIC BLANK-OUT SIGN

EX-E (EXISTING TO REMAIN)

EX-D

700-5-50 1 EA

(EXISTING TO BE RELOCATED)

FIBER OPTIC BLANK-OUT SIGN

EX-F (EXISTING TO BE RELOCATED)

700-11-500 1 AS

POSTED SPEED:
WEKIVA SPRINGS ROAD = 35 MPH
FOX VALLEY DRIVE = 20 MPH
TRAFFIC SIGNAL # 1228

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
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PEGASUS ENGINEERING, LLC
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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD SIGNALIZATION PLAN SHEET

SHEET NO. T-5

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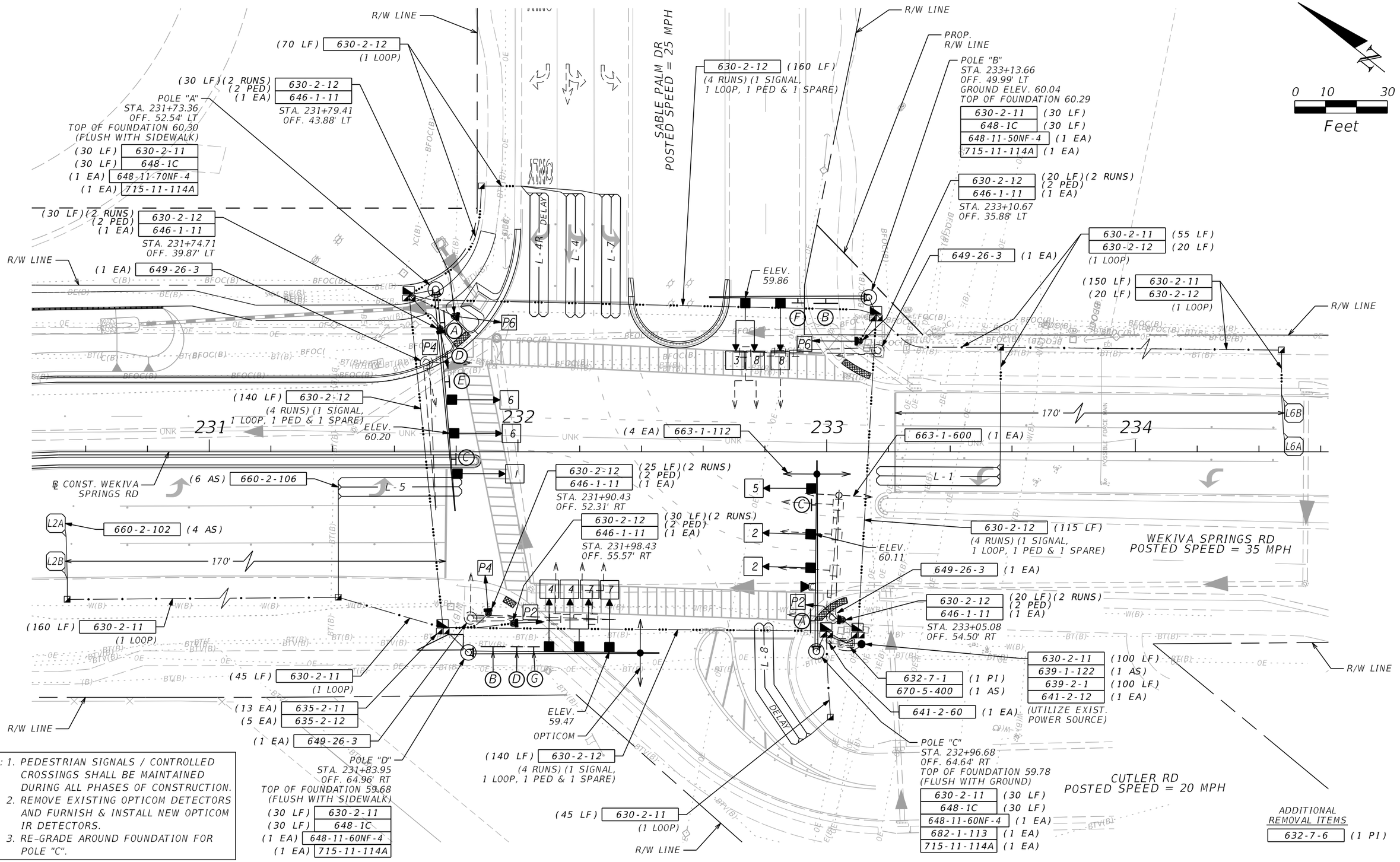

NOTES:
1. PEDESTRIAN SIGNALS / CONTROLLED CROSSINGS SHALL BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.
2. REMOVE EXISTING OPTICOM DETECTORS AND FURNISH & INSTALL NEW OPTICOM IR DETECTORS.
3. RE-GRADE AROUND FOUNDATION FOR POLE "C".

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
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Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD SIGNALIZATION PLAN

SHEET NO. T-6

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3/28/2022
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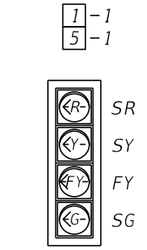
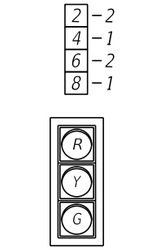
SIGNAL HEAD DETAILS



4-SECT., 1-WAY

650-1-16

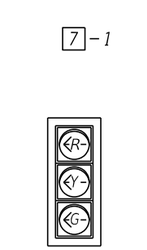
2 AS



3-SECT., 1-WAY

650-1-14

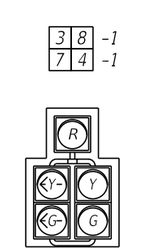
6 AS



3-SECT., 1-WAY

650-1-14

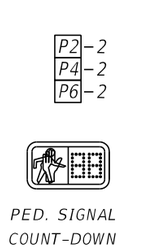
1 AS



5-SECT., 1-WAY

650-1-19

2 AS



PED. SIGNAL COUNT-DOWN 1-SECT., 1-WAY

653-1-11

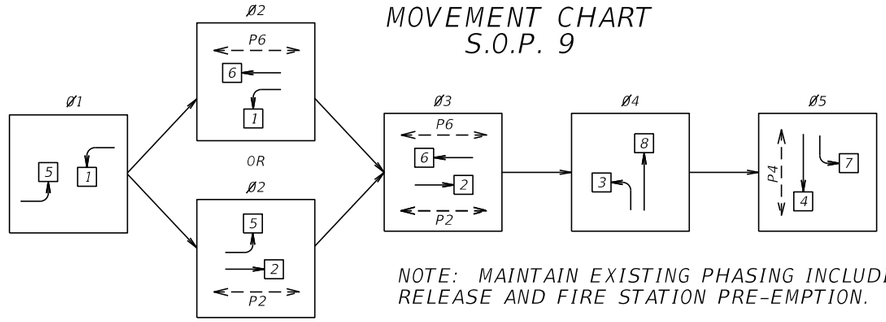
6 AS

665-1-11

6 EA

(ALL DISPLAYS SHALL BE LED)
(ALL SIGNAL HEADS SHALL INCLUDE REFLECTIVE BACKPLATES AND VISORS)

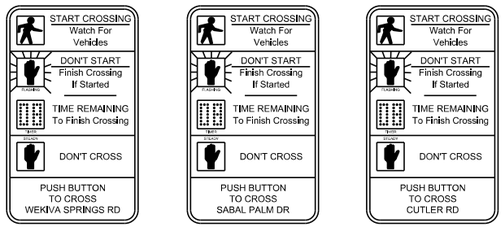
MOVEMENT CHART S.O.P. 9



NOTE: MAINTAIN EXISTING PHASING INCLUDING SCHOOL RELEASE AND FIRE STATION PRE-EMPTION.

POSTED SPEED:
WEKIVA SPRINGS ROAD = 35 MPH
SABAL PALM DRIVE = 25 MPH
CUTLER ROAD = 20 MPH
TRAFFIC SIGNAL # 2062

PEDESTRIAN SIGN DETAILS



2 EA FTP-68B-06 | 2 EA FTP-68B-06 | 2 EA FTP-68B-06

* CONTRACTOR SHALL VERIFY STREET NAMES PRIOR TO FABRICATION.

INITIAL CONTROLLER TIMINGS

TIMING FUNCTION							
MOVEMENT NUMBER		1	2	4&7	5	6	3&8
TIMING FUNCTION	MINIMUM GREEN	6	15	6	6	15	6
	EXTENSION	3.0	4.0	3.0	3.0	4.0	3.0
	MAXIMUM GREEN 1	25	90	35	25	80	20
	MAXIMUM GREEN 2						
	YELLOW CLEARANCE	4.0	4.0	3.4	4.0	4.0	3.4
	ALL RED	2.5	2.5	2.2*	2.5	2.5	2.5
	PEDESTRIAN WALK		7	7		7	
	PED. CLEARANCE		30	24*		38*	
	RECALL		MIN			MIN	

* UPDATED TIMINGS

DETECTORS FOR LOOPS

LOOP	NO. OF LOOPS	NO. OF NEW DETS.	CHANNEL NO.	DELAY TIME (SEC)
L-1	1	EXIST.	EXIST.	-
L-(2A&B)	2	EXIST.	EXIST.	-
L-4	1	EXIST.	EXIST.	-
L-4R	1	EXIST.	EXIST.	5
L-5	1	EXIST.	EXIST.	-
L-(6A&B)	2	EXIST.	EXIST.	-
L-7	1	EXIST.	EXIST.	-
L-8	1	EXIST.	EXIST.	5

DELAY TIME IS INITIAL AND MAY REQUIRE FIELD ADJUSTING AS DIRECTED BY PROJECT ENGINEER.

SIGN (E) OPERATION

1+5	2+5	2+6	3+8	4+7
NRT	NRT	BL	BL	BL

SIGN (F) OPERATION

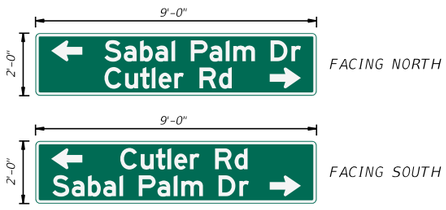
1+5	2+5	2+6	3+8	4+7
BL	NRT	NRT	BL	NRT

SIGN (G) OPERATION

1+5	1+6	2+6	3+8	4+7
BL	NRT	NRT	NRT	BL

OVERHEAD SIGN DETAILS

(A)



DOUBLE-FACED INTERNALLY ILLUMINATED SIGN (LED) WHITE/GREEN

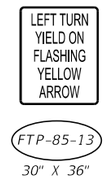
700-5-22 2 EA

(B)

DOUBLE-FACED INTERNALLY ILLUMINATED SIGN (LED) WHITE/GREEN

700-5-22 2 EA

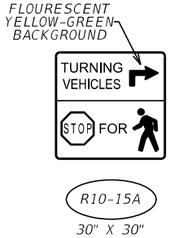
(C)



FTP-85-13
30" X 36"

700-3-201 2 EA

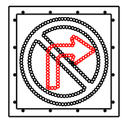
(D)



R10-15A
30" X 30"

700-3-201 2 EA

(E)



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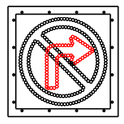
700-11-391 1 AS

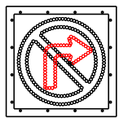
(F)



(30" X 30") FIBER OPTIC BLANK-OUT SIGN

700-11-391 1 AS

(G)



(30" X 30") FIBER OPTIC BLANK-OUT SIGN

700-11-391 1 AS

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

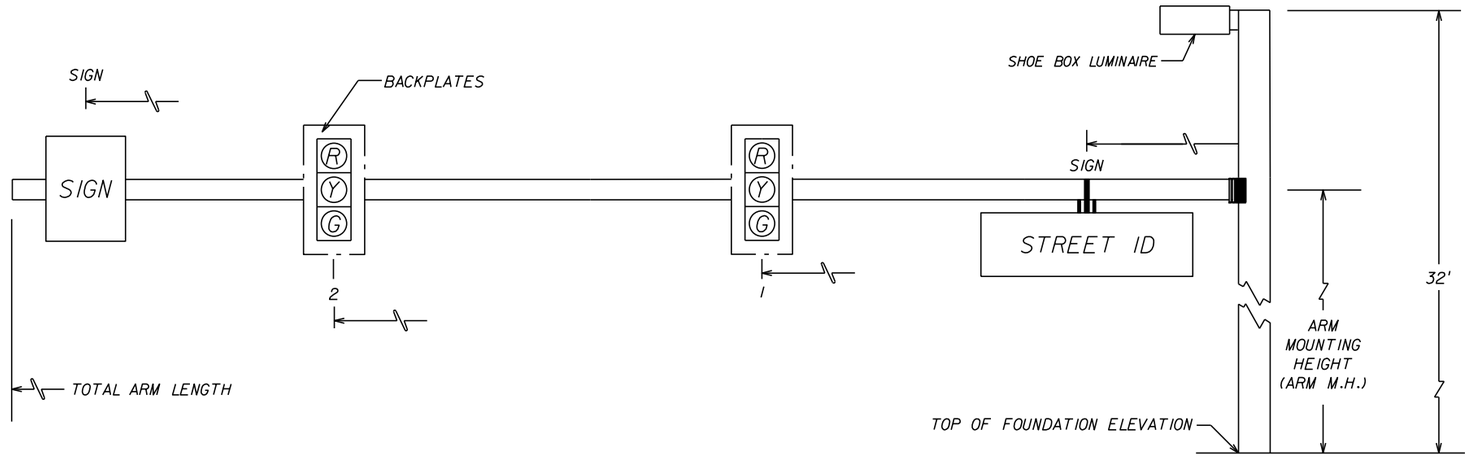
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD SIGNALIZATION PLAN SHEET

SHEET NO. T-7

3:43:04 PM 3/28/2022 N:\Projects\SMC20053_Wekiva Springs Road\IIIIII318\Signals\PLANSG04.dgn



ID NO.	SHEET NO.	LOCATION	TOP OF FOUNDATION ELEVATION	RDWY ARM NO.	CROWN ELEV.	SIGNAL DATA: SIGNAL V/H	BACK PLATES Y/N	PED. SIGNAL Y/N	DISTANCE FROM POLE: 1	*	2	*	3	*	4	*	5	*	6	*	∢ BETWEEN DUAL ARMS 90/270	SIGN: ST. ID	HEIGHT & WIDTH	SIGN	HEIGHT & WIDTH	TOTAL ARM LENGTH	ARM M.H.	PAINT COLOR
A	T-6	231+73.36, 52.54' LT	60.30	1	60.20	V	Y	N	34.0	3	44.9	3	58.0	4								9.1'	2'X9'	20.2'	2.5'X2.5'	70'	21.5'	BLACK
																								28.3'**	2.5'X2.5'			
																								53.3'	3.0'X2.5'			
B	T-6	233+13.66, 49.99' LT	60.29	1	59.86	V	Y	N	27.1	3	38.4	5										12.4'	2'X9'	21.4'**	2.5'X2.5'	50'	21.5'	BLACK
C	T-6	232+96.68, 64.64' RT	59.78	1	60.11	V	Y	N	25.3	3	36.2	3	51.1	4								8.2'	2'X9'	45.7'	3.0'X2.5'	60'	22.0'	BLACK
D	T-6	231+83.95, 64.96' RT	59.68	1	59.50	V	Y	N	24.4	3	34.1	5	43.9	3								6.2'	2'X9'	13.9'	2.5'X2.5'	60'	21.5'	BLACK
																								19.4'**	2.5'X2.5'			

* DENOTES NUMBER OF SECTIONS IN SIGNAL HEAD ASSEMBLY

** FIBER OPTIC BLANK-OUT SIGN

REVISIONS		
DATE	BY	DESCRIPTION

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301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

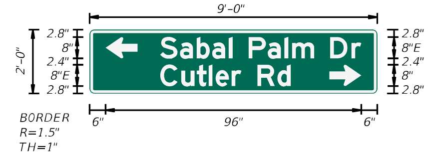
WEKIVA SPRINGS ROAD
MAST ARM TABULATION

SHEET NO. T-8

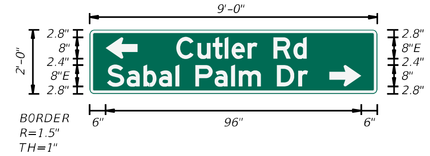
SIGN NAME	A	QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER			none
WIDTH	9'-0"	WIDTH	1"		
HEIGHT	2'-0"	RADII	1.5"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT
AR_Type D	90	6	13.2	8	12
AR_Type D	270	90	2.8	8	12
AR_Type D	90	6	13.2	8	12
AR_Type D	270	90	2.8	8	12

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



FACING NORTH



FACING SOUTH

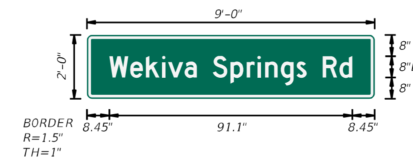
NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE	

COPY		S	a	b	a	l		P	a	l	m		D	r		L							
SPACE	26.5	7.4	6.2	5.8	6.2	1.4	6	7.2	6.2	2.9	8.3	6	8	3.7	6	75.5							
COPY		C	u	t	l	e	r		R	d		L											
SPACE	26.5	7.9	5.8	4.5	2.6	6	3.7	6	7.5	5	32.5	49											
COPY																							
SPACE																							
COPY		C	u	t	l	e	r		R	d		L											
SPACE	32.5	7.9	5.8	4.5	2.6	6	3.7	6	7.5	5	26.5	49											
COPY		S	a	b	a	l		P	a	l	m		D	r		L							
SPACE	6.5	7.4	6.2	5.8	6.2	1.4	6	7.2	6.2	2.9	8.3	6	8	3.7	26	75.5							
COPY																							
SPACE																							

SIGN NAME	B	QTY	2	SIGN NUMBER	STATION(S)
PANEL		BORDER			none
WIDTH	9'-0"	WIDTH	1"		
HEIGHT	2'-0"	RADII	1.5"		
LEGEND	White	COLOR	White		
COLOR	Green				

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH



NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE	

COPY		W	e	k	i	v	a		S	p	r	i	n	g	s		R	d		L			
SPACE	8.4	7.8	5.8	6.1	2.2	6.2	4.6	6	6.6	6.1	4	2.9	5.9	5.9	3.8	6	6.3	4.8	8.4	91.1			
COPY																							
SPACE																							
COPY																							
SPACE																							
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COPY																							
SPACE																							

SIGN NAME		QTY		SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH		WIDTH			
HEIGHT		RADII			
LEGEND		COLOR			
COLOR					

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE	

COPY	
SPACE	
COPY	
SPACE	
COPY	
SPACE	
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SPACE	
COPY	
SPACE	

SIGN NAME		QTY		SIGN NUMBER	STATION(S)
PANEL		BORDER			
WIDTH		WIDTH			
HEIGHT		RADII			
LEGEND		COLOR			
COLOR					

SYMBOL(S)	ANGLE	X	Y	WID	HT

SIGN NUMBER	NUMBER OF POSTS	CLEARANCE Edge Of Lane	COLUMN SIZE		AVERAGE LENGTH

NO. OF LIGHT FIXTURES		FIXTURE SPACING		PHOTOMETRIC CURVE		WATT		VOLTAGE	

COPY	
SPACE	
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SPACE	

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REVISIONS	
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
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WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
GUIDE SIGN WORKSHEET

SHEET NO.
T-9

GENERAL NOTES

1. These Standards are solely for use by Seminole County, Florida for mast arm installations in Seminole County.

2. These Standards address only the structural details of the Mast Arm and the Drilled Shaft Foundation. Users of these Standards remain responsible for verifying that the complete Mast Arm assembly (structure, foundation, signal heads, sign panels, and luminaries) meets all of the criteria and requirements of the appropriate governing agencies, including, but not limited to, providing adequate vertical & horizontal clearances, adequate sight distance, appropriate signalization, appropriate signal placement, and adequate sign panel size/positioning.

3. Utilities: Adequate provision shall be made for the protection and/or relocation of existing utilities. Users of these standards are cautioned to verify that there will be no interference between the utilities and the mast arm foundation.

ATTACHMENT OF TRAFFIC SIGNAL HEADS & ILLUMINATED SIGNS

1. Mast arm shop drawings shall include the attachment details.

2. Signal and power cables shall be completely encased in hollow tubes and hollow brackets between the mast arm and the signal head/sign.

3. The support brackets shall attach to the arm using metal cable. Fastening to and/or welding to the arm is prohibited.

4. Field drill entry holes for signal cables and power cables. Fit holes with rubber grommet.

5. Illuminated Signs shall be attached below the arm using a free-swinging bracket. No other attachment position or method is permitted.

GEOTECHNICAL REQUIREMENTS & SOILS DATA LETTER

1. Site-specific Geotechnical Data is required for all Mast Arms. A Soil Boring shall be performed for each Mast Arm.

2. A Soils Data Letter shall be prepared by a Geotechnical Engineer and shall be submitted with the Mast Arm Structure Design Calculations and Shop Drawings. The Soils Data Letter shall be based upon a Soil Boring (SPT) not less than 30 feet in depth. Use of methods other than SPT is not permitted.

   The Soils Data Letter shall clearly state the following:
   - Applicable Standard Soil Type(s)
   - Internal Angle of Friction (Phi Angle)
   - Recommended Water Table Elevation for Design
   - Soil Dry Unit Weight
   - Soil Saturated Unit Weight
   - Soil Effective Unit Weight (Saturated Unit Weight minus Water Unit Weight)
   - SPT Blow Count (Uncorrected)
   - Minimum Tip Elevation (if applicable)
   - Shaft Length Extension due to Clay Layer (if applicable)
   - Special Conditions Encountered (Loose Soils, Hardpan, Voids, etc.)

3. The Geotechnical Engineer is advised that the Foundation Capacities have been determined assuming a single soil layer for the entire embedded length of the Drilled Shaft Foundation. The Geotechnical Engineer shall exercise appropriate engineering judgement when using weighted-average and/or other measures to ensure the single-layer soil properties will accurately model the actual existing multi-layer soil conditions. For highly variable soils, more than one Standard Soil Type may need to be provided. For example, one Standard Soil Type may be applicable for a Drilled Shaft Foundation less than 16'-0" long while a different Standard Soil Type may be applicable for a Drilled Shaft Foundation longer than 16'-0". In all cases, the provided Standard Soil Type(s) must be applicable for the entire length of the Drilled Shaft Foundation. I.e., do not provide a Standard Soil Type for the upper soil layers and a different soil type for the lower soil layers.

4. Drilled Shaft Foundations shall not terminate in a soil layer with an uncorrected SPT Blow Count (N) of 4 or less. The Soils Data Letter shall specifically note all such layers and shall provide a Minimum Tip Elevation. Where the Ground Elevation is not known, the Minimum Tip Elevation shall be expressed as a Minimum Tip Depth Below Grade.

5. The following criteria must be met in order to qualify as a Standard Soil Type:
   - A. The average soils parameters must meet all of the minimum values of the Standard Soil Type.
   - B. Within the limit of the Drilled Shaft Foundation, there can be no more than 5'-0" of soils with an uncorrected SPT Blow Count (N) of 4 or less.
   - C. At the discretion of the Geotechnical Engineer, the soils within the length of the Drilled Shaft Foundation may contain a clay layer not exceeding 3'-0" thick (see Note #6).

6. At the discretion of the Geotechnical Engineer, the following procedure may be used for a soil profile that contains a clay layer not exceeding 3'-0" in thickness, but that otherwise fully meets all of the parameters for a Standard Soil Type:
   - A. The Drilled Shaft Foundation capacity shall be based upon the Standard Soil Type.
   - B. The Drilled Shaft Foundation shall be extended a minimum of 3'-0" longer than the length required by the Table of Foundation Capacities.

7. For each location where a Standard Soil Type applies, the standard foundation details shall be used. A Special Foundation Design is not required for that location.

8. For locations where no Standard Soil Type is applicable, a Special Foundation Design is required. The Special Foundation shall be designed and detailed using the actual Mast Arm base reactions and the specific soils parameters provided in the Soils Data Letter. The Special Foundation shall be designed by a professional engineer registered in the State of Florida. Signed and sealed design calculations and foundation details shall be submitted concurrently with the mast arm design calculations and shop drawings. The Drilled Shaft Foundation design methodology shall comply with the Foundation Capacity Criteria used for these Standards (see Sheet# T-18).

SUBMITTAL REQUIREMENTS

The following information shall be provided for every Mast Arm structure:

1. Mast Arm Design Calculations
2. Mast Arm Shop Drawings
3. Soils Data Letter (with Soil Boring Log)
4. Special Foundation Design (required only for non-standard soils)

SPECIAL CONSTRUCTION REQUIREMENTS

1. All Construction shall comply with the Florida Department of Transportation "Standard Specifications for Road and Bridge Construction" except for method of payment.

2. Mast Arm Shop Drawings are required and fabrication shall not begin until the Shop Drawings are approved. Mast Arm Shop Drawings shall include the anchor rod orientation with respect to the arm(s) and the direction of traffic.

3. Foundation Materials:
   - A. Concrete: FDOT Class IV (Drilled Shaft)
     Minimum 28-Day Compressive Strength = 4,000 psi
   - B. Reinforcing Steel: ASTM A615, Grade 60

   Special Requirements apply to FDOT District 5 Submittals. Contact the FDOT District 5 Geotechnical Department for Environmental Classification based upon the FDOT District 5 Corrosion Maps.

4. The Soils Data Letter may require a Minimum Tip Elevation in order to locate the bottom of the drilled shaft in a competent soil layer or to account for a clay layer. Drilled Shaft Foundations shall not be terminated above the stated Minimum Tip Elevation.

5. The top of the Drilled Shaft Foundation shall extend a minimum of one inch (1") but not more than six inches (6") above the adjacent finish ground line. The top of Drilled Shaft Foundations located within or abutting a sidewalk shall match the top of sidewalk elevation unless otherwise noted in the Mast Arm Designer's plans.

6. Natural Slurry shall not be relied upon to prevent caving of the soils and/or to maintain an open hole. Adequate measures shall be taken to control Artesian Water Conditions where encountered. Temporary Casing or other measures may be used. Permanent Casing is prohibited.

7. The Pole shall not be erected until the foundation concrete has achieved the specified 28-day compressive strength.

8. If the traffic signals or sign panels are not in place within two working days after the arm is erected, a 3.0 foot by 2.0 foot blank ⅛" thick aluminum sign panel shall be attached to the bottom of the arm within six feet of the arm tip and shall remain in place until the signals and signs are installed.

REVISIONS		
DATE	BY	DESCRIPTION

SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE

2017-18
STANDARD MAST ARM DRAWINGS

SEMINOLE COUNTY TRAFFIC ENGINEERING
140 BUSH LOOP - SANFORD, FL 32773
407-665-5677

NOTES

SHEET
T-10

MAST ARM STRUCTURAL DESIGN CRITERIA

1. Mast Arm Structure Design shall comply with:
   - A. American Society of State Highway and Transportation Officials "LRFD Specifications for Structural Supports for Highway Signs, Luminares, and Traffic Signals" (1st Edition with Interim Revisions through 2017)
   - B. Florida Department of Transportation Structures Manual (January 2017 Edition).
   - C. Fatigue shall be considered in accordance with the requirements of the Florida Department of Transportation Structures Manual (January 2017 Edition).

2. Basic Wind Speed: 150 mph

3. The Mast Arm Design Calculations shall clearly state the Foundation Reactions.

4. To ensure constructability of the drilled shaft foundations, the Mast Arm Anchor Rod Bolt Circle shall not exceed 24" without prior approval of Seminole County Traffic Engineering. An Anchor Rod Bolt Circle larger than 24" will require more stringent construction tolerances for the Drilled Shaft Construction than those in the FDOT Specifications, including more precise fabrication/placement of the reinforcing bar cage and more precise placement of the anchor rods.

5. A grout pad is required.

6. The mast arm structure details shown herein are not complete details. The details only indicate the appearance of the mast arm structure and the connection styles. The fabricator shall be responsible for the complete design and detailing of the mast arm structure. Calculations and Shop Drawings shall be signed and sealed by a professional engineer registered in the State of Florida in compliance with Florida laws and regulations.

MAST ARM STRUCTURE REQUIREMENTS

1. Materials:

   Split-lock washers and self-locking nuts are not permitted.

   - A. Poles, Mast Arms & Backing Rings:
     - 1) Less than 3/16": ASTM A1011 Grade 50, 55, 60, or 65
     - 2) Greater than or equal to 3/16": ASTM A572 Grade 50, 55, 60, or 65
     - 3) All thicknesses: ASTM A595 Grade A (55 ksi yield) or Grade B (60 ksi yield)
   - B. Steel Plates: ASTM A36
   - C. Weld Metal: E70XX
   - D. Bolts, Nuts, and Washers:
     - 1) High Strength Bolts: ASTM F3125, Grade A325, Type 1
     - 2) Nuts: ASTM A563 DH Heavy-Hex
     - 3) Washers: ASTM F436, Type 1 (one under turned element)
   - E. Anchor Rods, Nuts, & Washers:
     - 1) Anchor Rods: ASTM F1554 Grade 55
     - 2) Nuts for Anchor Rods: ASTM A563 Grade A Heavy Hex (5 per anchor rod)
     - 3) Plate Washers: ASTM A36 (2 per anchor rod)
   - F. Threaded Bars/Studs: ASTM A36 or ASTM A307
   - G. Handhole Frame: ASTM A709 Grade 36 or ASTM A36
   - H. Handhole Cover: ASTM A1011 Grade 50, 55, 60, or 65
   - I. Aluminum Pole Caps and Nut Covers: ASTM B26 (319-F)
   - J. Stainless Steel Screws: AISI Type 316

2. Fabrication
   - A. Pole and Mast Arm Taper: Change diameter at a uniform rate of 0.14 inches per foot
   - B. Upright (Pole) splices are not allowed. Transverse welds in pole are only permitted at the base.
   - C. Arm camber shall comply with requirements shown on these Standards.
   - D. Provide bolt hole diameters as follows:
     1. Bolts (excludes Anchor Rods): Bolt diameter plus 1/16", prior to galvanizing.
     2. Anchor Rods: Anchor Rod diameter plus 1/2", prior to galvanizing.
   - E. Unless specifically shown otherwise in the Signalization Plans, face the handhole:
     Single Arm Structures: Perpendicular to arm
     Double Arm Structures: Perpendicular to first arm
   - F. Seam weld on bottom side of arm. Seam weld under Arm 1 side of pole.
   - G. Provide "J" or "C" hook at the top of the pole for signal wiring support.
   - H. Perform all welding in accordance with Specification Article 460-6.4.
   - I. Hot Dip Galvanize and Paint after fabrication.

3. Coatings:
   - A. All Nuts, Bolts, Washers, and Threaded Bars/Studs: ASTM F2329
   - B. All other steel items: ASTM A123
   - C. Paint the entire structure after fabrication in accordance with Specification Article 649-4. Surfaces that will not be exposed after erection need not be painted.

4. Construction:
   - A. Foundation: Specification Section 455 Drilled Shaft, except for method of payment.
   - B. Install Pole vertically.
   - C. Place structural grout pad with drain between the top of the foundation and the bottom of the baseplate in accordance with Specification Article 649-7.
   - D. Attach Sign Panels and Signals centered on the elevation of the Mast Arm.
   - E. Wire Access holes shall be 1½" or less in diameter.

REVISIONS		
DATE	BY	DESCRIPTION

SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE

2017-18
STANDARD MAST ARM DRAWINGS

SEMINOLE COUNTY TRAFFIC ENGINEERING
140 BUSH LOOP - SANFORD, FL 32773
407-665-5677

STRUCTURAL DESIGN CRITERIA
&
MAST ARM STRUCTURE REQUIREMENTS

SHEET
T-11

SPECIFICATION OF MAST ARMS

POLE I.D.	POLE TYPE	POLE STYLE	ARM STYLE	COLOR	LUMINAIRE	BASE	BANNER	FIRST ARM LENGTH	SECOND ARM LENGTH	ANGLE BETWEEN ARMS
POLE A	POLE TYPE 4	ROUND	STRAIGHT	BLACK	SHOEBOX	NUT COVERS	NONE	70'		
POLE B	POLE TYPE 4	ROUND	STRAIGHT	BLACK	SHOEBOX	NUT COVERS	NONE	50'		
POLE C	POLE TYPE 4	ROUND	STRAIGHT	BLACK	SHOEBOX	NUT COVERS	NONE	60'		
POLE D	POLE TYPE 4	ROUND	STRAIGHT	BLACK	SHOEBOX	NUT COVERS	NONE	60'		

REVISIONS

DATE	BY	DESCRIPTION

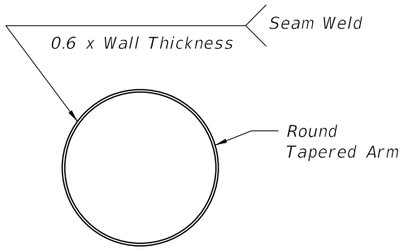
SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE

2017-18
STANDARD MAST ARM DRAWINGS

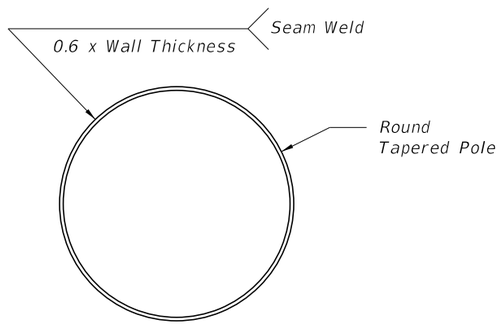
SEMINOLE COUNTY TRAFFIC ENGINEERING
140 BUSH LOOP - SANFORD, FL 32773
407-665-5677

POLE SCHEDULE

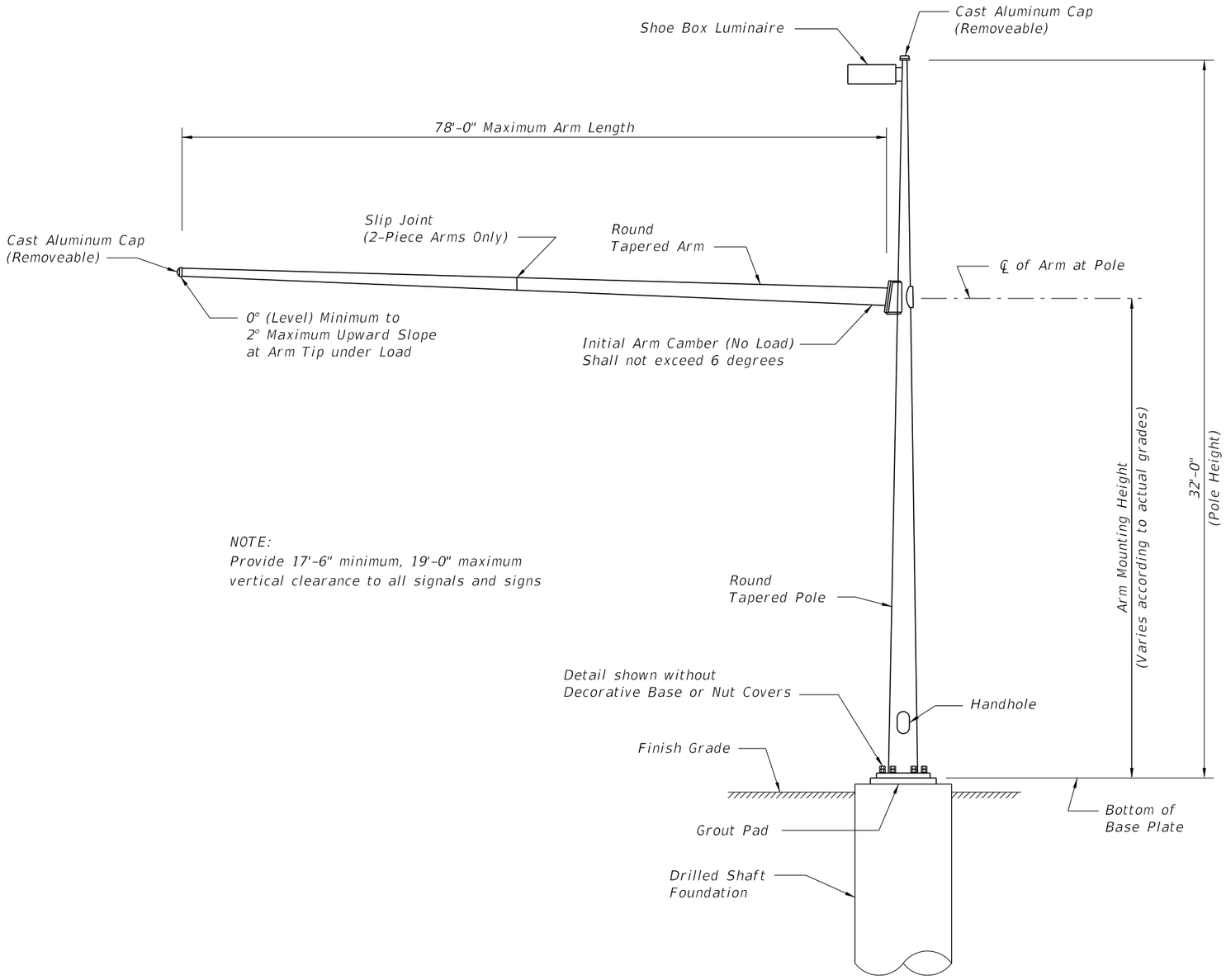
SHEET
T-12



TYPICAL SECTION THROUGH ARM



TYPICAL SECTION THROUGH POLE



ELEVATION - POLE TYPE 4

REVISIONS		
DATE	BY	DESCRIPTION

SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE

2017-18
STANDARD MAST ARM DRAWINGS

SEMINOLE COUNTY TRAFFIC ENGINEERING
140 BUSH LOOP - SANFORD, FL 32773
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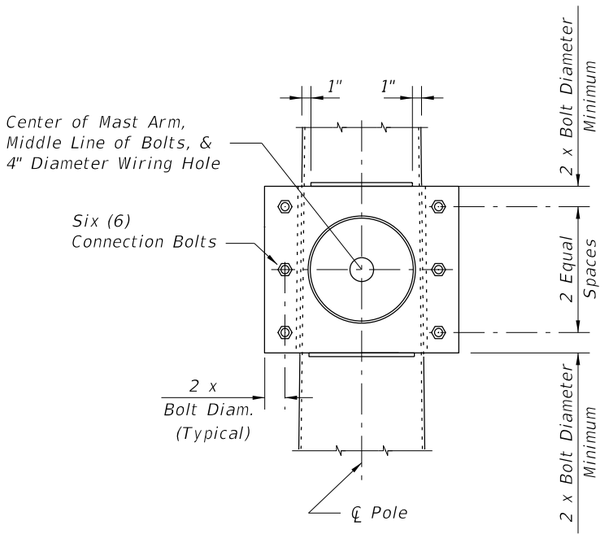
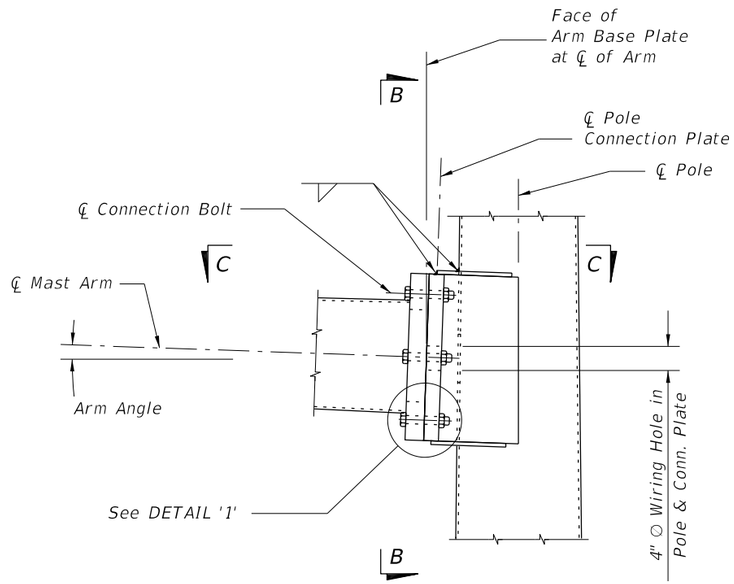
POLE TYPE 4
ROUND POLE WITH LUMINAIRE
STRAIGHT ARM

SHEET
T-13

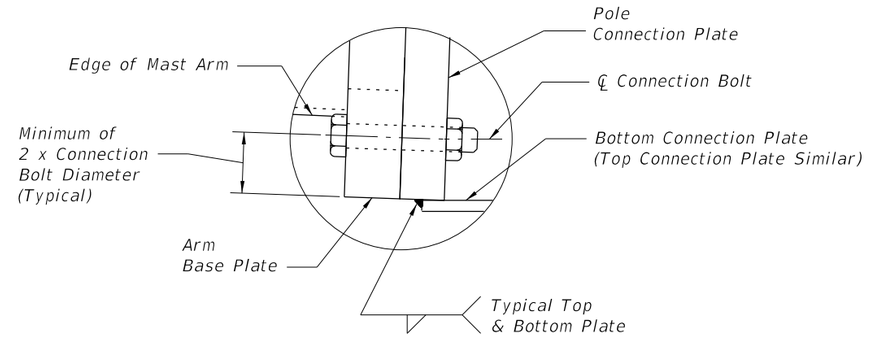


SECTION B-B

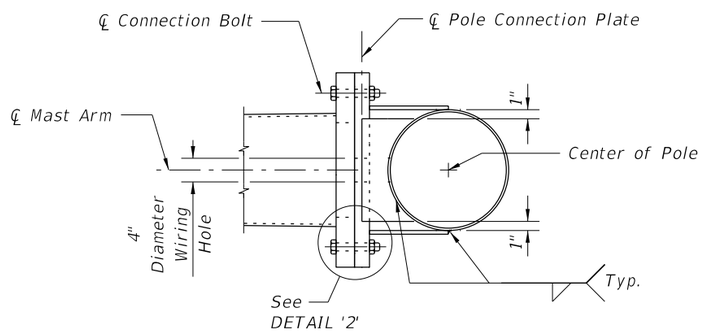


ELEVATION

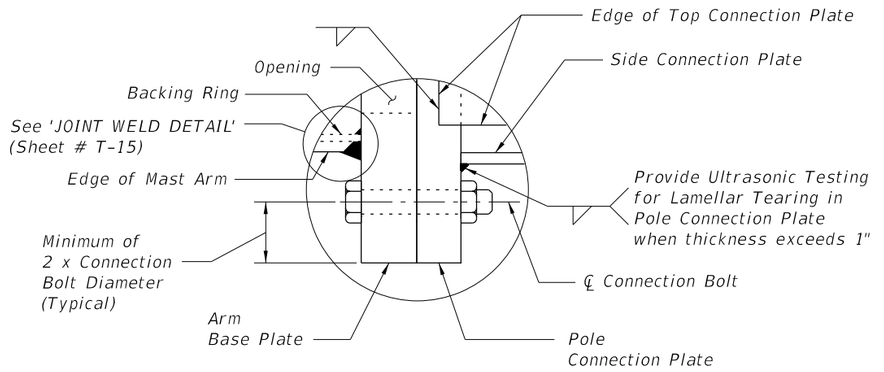
NOTE:
Details drawn for round pole,
Details for fluted pole similar.



DETAIL '1'



SECTION C-C



DETAIL '2'

REVISIONS		
DATE	BY	DESCRIPTION

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STANDARD MAST ARM DRAWINGS

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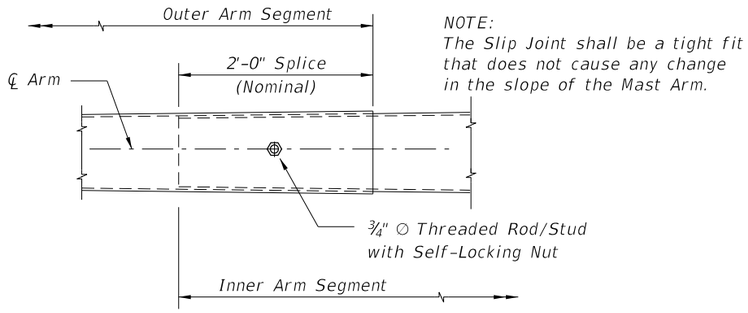
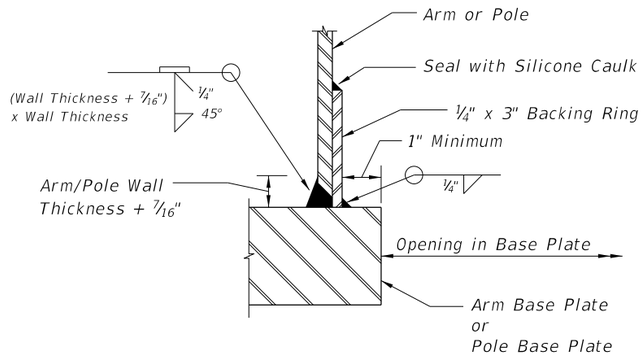
ARM-TO-POLE CONNECTION
SINGLE ARM

SHEET
T-14



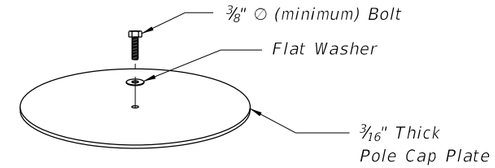
NOTE:
The Slip Joint shall be a tight fit that does not cause any change in the slope of the Mast Arm.

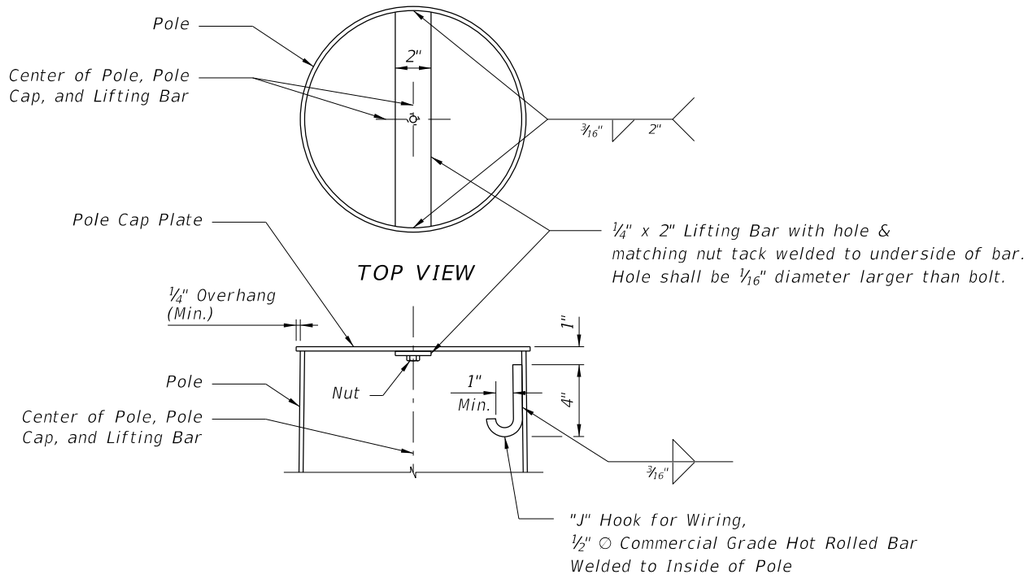
ARM SPLICE DETAIL



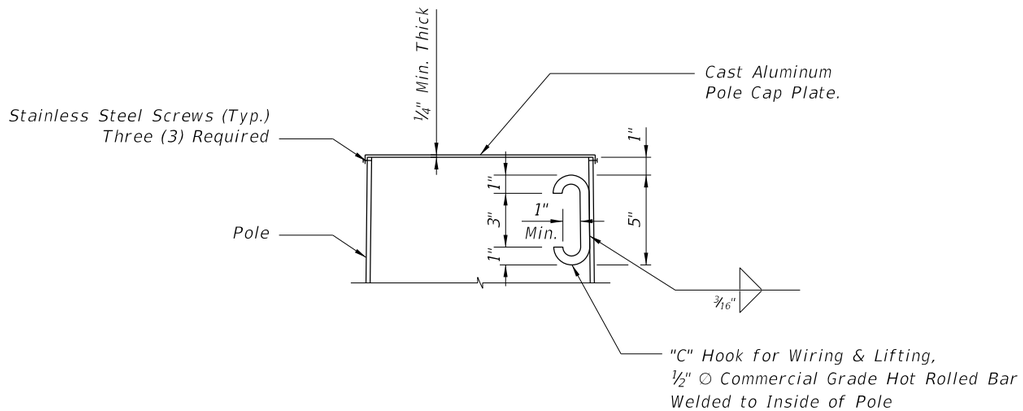
JOINT WELD DETAIL

Arm To Connection Plate
&
Pole To Base Plate





OPTION "A"



OPTION "B"

TOP OF POLE DETAILS

NOTE:
Any combination of the details shown in the two options may be used, provided both lifting and wiring are accommodated.

REVISIONS		
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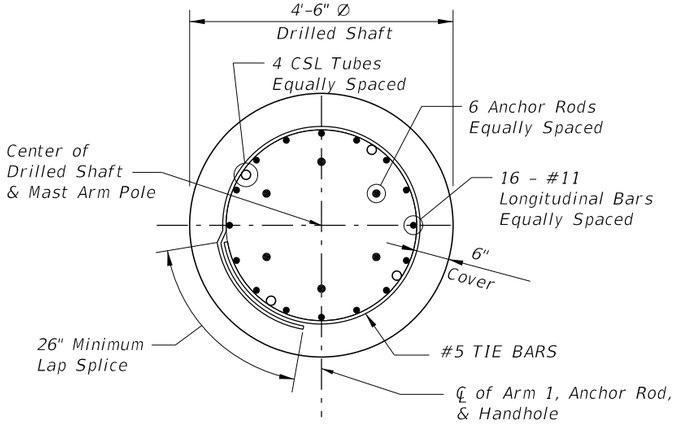
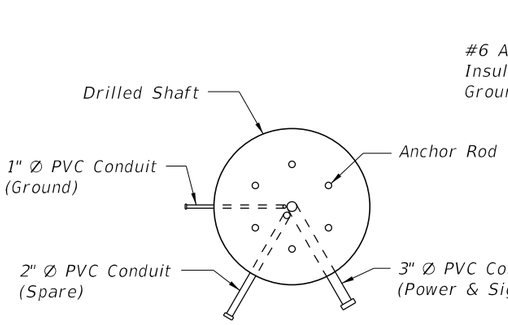
MAST ARM DETAILS

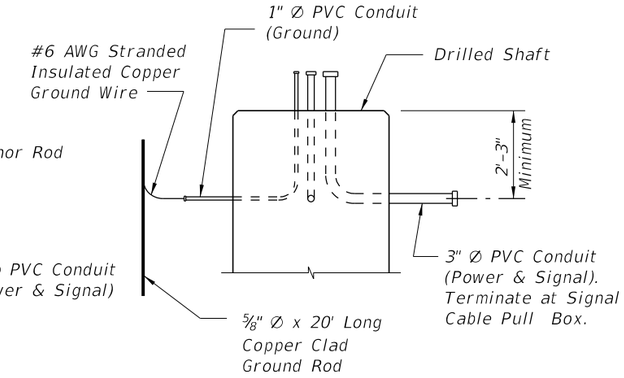
SHEET
T-15



SECTION F-F
(Conduits Not Shown)



PLAN VIEW

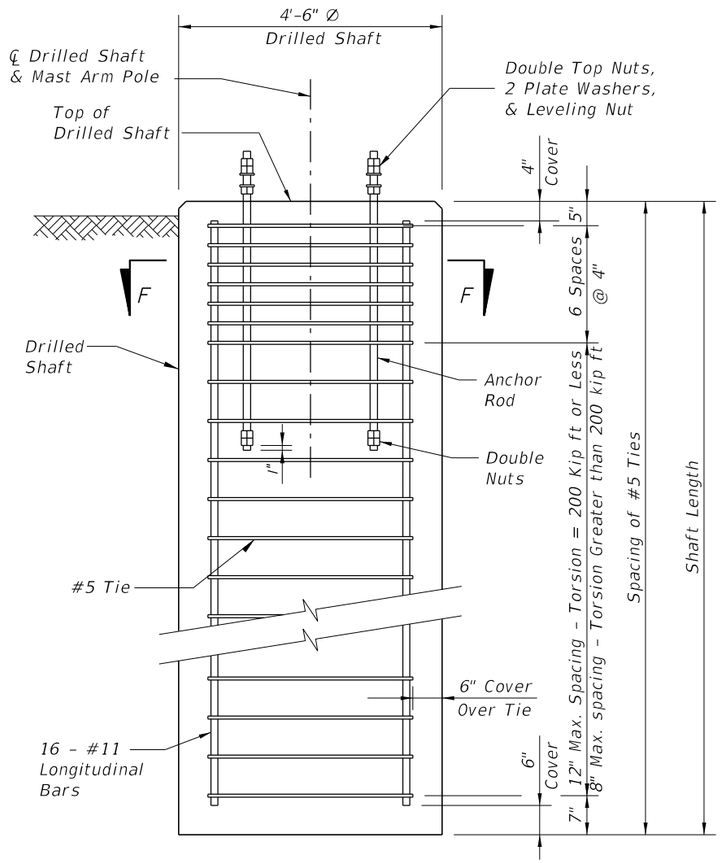


ELEVATION

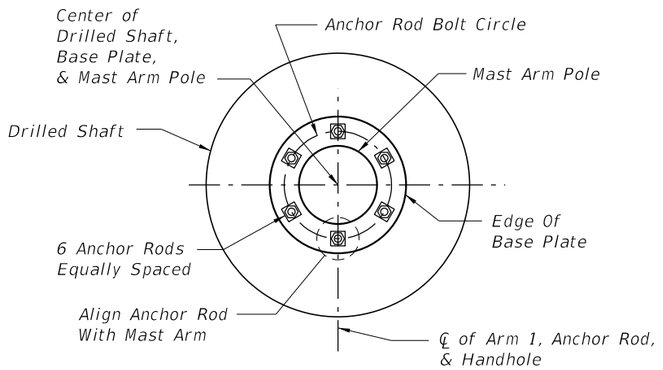
NOTE:
See MAST ARM STRUCTURAL DESIGN CRITERIA, Note #4 on Sheet # T-11 for restriction on diameter of Anchor Rod Bolt Circle.

FOUNDATION CONDUIT DETAIL

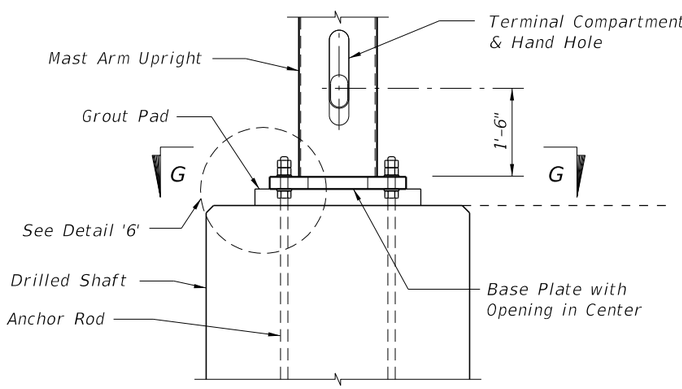
Conduit Notes:
1. *Details shown are schematic.*
2. *Adjust Conduit Orientation as required to clear Anchor Rods, Drilled Shaft Reinforcing, and CSL tubes.*
3. *Extend Conduits to 1" below bottom of Mast Arm Handhole.*



ELEVATION - DRILLED SHAFT
(CSL Tubes & Conduits Not Shown)



SECTION G-G
(CSL Tubes, & Conduits Not Shown)



BASE PLATE & ANCHORAGE ELEVATION
(Shaft Reinforcing, CSL Tubes & Conduits Not Shown)

* *The Structural Grout Pad diameter may be reduced where the footprint of the Grout Pad does not provide adequate clearance for the sidewalk and/or accessibility considerations.*

DETAIL '6'
PARTIAL SECTION THROUGH BASE PLATE AT CENTER OF BASE PLATE
(Shaft Reinforcing, CSL Tubes, & Conduits Not Shown)

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STANDARD MAST ARM DRAWINGS

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FOUNDATION DETAILS

SHEET
T-16

TABLE NOTES

1. The Moment and Torsion Capacities are LRFD Capacities.
   The values in the Table of Foundation Capacities are limited to:
   - Overturning Moment: 300 kip*ft
   - Torsion: 375 kip*ft

2. The foundation information and details shown are for foundations meeting specific soil properties:
   - Internal Angle of Friction (Phi Angle)
   - Soil Effective Unit Weight (saturated unit weight minus water unit weight)
   - SPT Blow Count (blows per foot) (uncorrected)

   These parameters are assumed to exist for the entire embedded depth of the drilled shaft.

3. The information provided in the Table of Foundation Capacities is only valid if all of the following conditions are met:

   A. The existing soil conditions meet all of the parameters listed for the standard soil type (see GEOTECHNICAL REQUIREMENTS & SOILS DATA LETTER, Note #6 on Sheet T-10 for exception).

   B. The ground surface slope is 4:1 (Horizontal to Vertical) or flatter for a minimum of 8 feet from the center of the foundation in all directions.

   C. The foundations are constructed in accordance with these standards.

   If any of these conditions are not met, then the foundation information and details shown herein do not apply and a special foundation must be designed. See Sheet T-10 for foundation design and submittal requirements.

4. If the Base Moment or Base Torsion exceed the values shown in the Table of Foundation Capacities, then a special foundation must be designed. See requirements this sheet and Sheet T-10 for foundation design criteria and submittal requirements.

5. See Sheet T-10 for additional notes.

FOUNDATION CAPACITY CRITERIA

1. The Drilled Shaft Moment and Torsion Capacities are determined in accordance with the FDOT Structures Manual (January 2017 Edition) with parameters and modifications as listed herein.

2. Design Parameters:
   - Resistance Factor – Overturning: 0.60
   - Resistance Factor – Torsion: 0.90
   - Horizontal Shear (Applied at Top of Drilled Shaft): 10.0 Kips

3. The foundation capacity assumes that:
   a) The top of the foundation extends 6" above grade
   b) The top 18" of soil is loose or disturbed

   To account for these assumptions, the top 2'-0" of the shaft length is considered to provide no contribution to the overturning or torsion resistance and therefore the soil within that limit is totally neglected.

4. Torsion resistance is computed solely for skin friction. No contribution from bottom friction is considered.

TABLE LEGEND

Φ: Soil Internal Angle of Friction (Phi Angle)
γ: Soil Effective Unit Weight
N: SPT Blow Count (Blows per Foot) (Uncorrected)

TABLE OF FOUNDATION CAPACITIES

SOIL TYPE: 28-40-06 Φ: 28 DEGREES γ: 40 PCF N: 9 > N ≥ 6	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	24
	MOMENT (KIP*FEET)	29	68	116	175	245	300	300	300	300	300	300	300	300
	TORSION (KIP*FEET)	34	42	49	58	67	77	88	99	111	124	137	151	166
SOIL TYPE: 28-40-09 Φ: 28 DEGREES γ: 40 PCF N: 12 > N ≥ 9	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	24
	MOMENT (KIP*FEET)	29	68	116	175	245	300	300	300	300	300	300	300	300
	TORSION (KIP*FEET)	52	62	74	87	101	116	132	149	167	186	206	227	249
SOIL TYPE: 28-40-12 Φ: 28 DEGREES γ: 40 PCF N: 15 > N ≥ 12	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	24
	MOMENT (KIP*FEET)	29	68	116	175	245	300	300	300	300	300	300	300	300
	TORSION (KIP*FEET)	69	83	99	116	135	155	176	199	223	248	275	303	333
SOIL TYPE: 28-40-15 Φ: 28 DEGREES γ: 40 PCF N: N ≥ 15	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	
	MOMENT (KIP*FEET)	29	68	116	175	245	300	300	300	300	300	300	300	
	TORSION (KIP*FEET)	86	104	124	145	168	193	220	248	278	310	344	375	
SOIL TYPE: 28-50-06 Φ: 28 DEGREES γ: 50 PCF N: 9 > N ≥ 6	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	24
	MOMENT (KIP*FEET)	66	116	179	256	300	300	300	300	300	300	300	300	300
	TORSION (KIP*FEET)	43	52	62	73	84	97	110	124	139	155	172	189	208
SOIL TYPE: 28-50-09 Φ: 28 DEGREES γ: 50 PCF N: 12 > N ≥ 9	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	24
	MOMENT (KIP*FEET)	66	116	179	256	300	300	300	300	300	300	300	300	300
	TORSION (KIP*FEET)	64	78	93	109	126	145	165	186	209	233	258	284	312
SOIL TYPE: 28-50-12 Φ: 28 DEGREES γ: 50 PCF N: 15 > N ≥ 12	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	
	MOMENT (KIP*FEET)	66	116	179	256	300	300	300	300	300	300	300	300	
	TORSION (KIP*FEET)	86	104	124	145	168	193	220	248	278	310	344	375	
SOIL TYPE: 28-50-15 Φ: 28 DEGREES γ: 50 PCF N: N ≥ 15	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21			
	MOMENT (KIP*FEET)	66	116	179	256	300	300	300	300	300	300			
	TORSION (KIP*FEET)	107	130	155	181	210	242	275	310	348	375			
SOIL TYPE: 28-60-06 Φ: 28 DEGREES γ: 60 PCF N: 9 > N ≥ 6	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	24
	MOMENT (KIP*FEET)	102	165	243	300	300	300	300	300	300	300	300	300	300
	TORSION (KIP*FEET)	52	62	74	87	101	116	132	149	167	186	206	227	249
SOIL TYPE: 28-60-09 Φ: 28 DEGREES γ: 60 PCF N: 12 > N ≥ 9	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	24
	MOMENT (KIP*FEET)	102	165	243	300	300	300	300	300	300	300	300	300	300
	TORSION (KIP*FEET)	77	94	111	131	151	174	198	223	250	279	309	341	374
SOIL TYPE: 28-60-12 Φ: 28 DEGREES γ: 60 PCF N: 15 > N ≥ 12	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22		
	MOMENT (KIP*FEET)	102	165	243	300	300	300	300	300	300	300	300		
	TORSION (KIP*FEET)	103	125	148	174	202	232	264	298	334	372	375		
SOIL TYPE: 28-60-15 Φ: 28 DEGREES γ: 60 PCF N: N ≥ 15	LENGTH (FEET)	12	13	14	15	16	17	18	19	20				
	MOMENT (KIP*FEET)	102	165	243	300	300	300	300	300	300				
	TORSION (KIP*FEET)	129	156	186	218	252	290	330	372	375				

REVISIONS

DATE	BY	DESCRIPTION

SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE

2017-18
STANDARD MAST ARM DRAWINGS

SEMINOLE COUNTY TRAFFIC ENGINEERING
140 BUSH LOOP - SANFORD, FL 32773
407-665-5677

FOUNDATION CAPACITIES (1 OF 2)

SHEET
T-17

NOTE:
See Sheet # T-17 for Table Notes & Criteria used for Foundation Capacities.

TABLE OF FOUNDATION CAPACITIES

SOIL TYPE: 30-40-06 Φ: 30 DEGREES γ: 40 PCF N: 9 > N ≥ 6	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	24
	MOMENT (KIP*FEET)	41	84	137	202	279	300	300	300	300	300	300	300	300
	TORSION (KIP*FEET)	34	42	49	58	67	77	88	99	111	124	137	151	166
SOIL TYPE: 30-40-09 Φ: 30 DEGREES γ: 40 PCF N: 12 > N ≥ 9	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	24
	MOMENT (KIP*FEET)	41	84	137	202	279	300	300	300	300	300	300	300	300
	TORSION (KIP*FEET)	52	62	74	87	101	116	132	149	167	186	206	227	249
SOIL TYPE: 30-40-12 Φ: 30 DEGREES γ: 40 PCF N: 15 > N ≥ 12	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	24
	MOMENT (KIP*FEET)	41	84	137	202	279	300	300	300	300	300	300	300	300
	TORSION (KIP*FEET)	69	83	99	116	135	155	176	199	223	248	275	303	333
SOIL TYPE: 30-40-15 Φ: 30 DEGREES γ: 40 PCF N: N ≥ 15	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	
	MOMENT (KIP*FEET)	41	84	137	202	279	300	300	300	300	300	300	300	
	TORSION (KIP*FEET)	86	104	124	145	168	193	220	248	278	310	344	375	
SOIL TYPE: 30-50-06 Φ: 30 DEGREES γ: 50 PCF N: 9 > N ≥ 6	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	24
	MOMENT (KIP*FEET)	81	137	206	289	300	300	300	300	300	300	300	300	300
	TORSION (KIP*FEET)	43	52	62	73	84	97	110	124	139	155	172	189	208
SOIL TYPE: 30-50-09 Φ: 30 DEGREES γ: 50 PCF N: 12 > N ≥ 9	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	24
	MOMENT (KIP*FEET)	81	137	206	289	300	300	300	300	300	300	300	300	300
	TORSION (KIP*FEET)	64	78	93	109	126	145	165	186	209	233	258	284	312
SOIL TYPE: 30-50-12 Φ: 30 DEGREES γ: 50 PCF N: 15 > N ≥ 12	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	
	MOMENT (KIP*FEET)	81	137	206	289	300	300	300	300	300	300	300	300	
	TORSION (KIP*FEET)	86	104	124	145	168	193	220	248	278	310	344	375	
SOIL TYPE: 30-50-15 Φ: 30 DEGREES γ: 50 PCF N: N ≥ 15	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21			
	MOMENT (KIP*FEET)	81	137	206	289	300	300	300	300	300	300			
	TORSION (KIP*FEET)	107	130	155	181	210	242	275	310	348	375			
SOIL TYPE: 30-60-06 Φ: 30 DEGREES γ: 60 PCF N: 9 > N ≥ 6	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	24
	MOMENT (KIP*FEET)	121	190	274	300	300	300	300	300	300	300	300	300	300
	TORSION (KIP*FEET)	52	62	74	87	101	116	132	149	167	186	206	227	249
SOIL TYPE: 30-60-09 Φ: 30 DEGREES γ: 60 PCF N: 12 > N ≥ 9	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22	23	24
	MOMENT (KIP*FEET)	121	190	274	300	300	300	300	300	300	300	300	300	300
	TORSION (KIP*FEET)	77	94	111	131	151	174	198	223	250	279	309	341	374
SOIL TYPE: 30-60-12 Φ: 30 DEGREES γ: 60 PCF N: 15 > N ≥ 12	LENGTH (FEET)	12	13	14	15	16	17	18	19	20	21	22		
	MOMENT (KIP*FEET)	121	190	274	300	300	300	300	300	300	300	300		
	TORSION (KIP*FEET)	103	125	148	174	202	232	264	298	334	372	375		
SOIL TYPE: 30-60-15 Φ: 30 DEGREES γ: 60 PCF N: N ≥ 15	LENGTH (FEET)	12	13	14	15	16	17	18	19	20				
	MOMENT (KIP*FEET)	121	190	274	300	300	300	300	300	300				
	TORSION (KIP*FEET)	129	156	186	218	252	290	330	372	375				

TABLE LEGEND

Φ: Soil Internal Angle of Friction (Phi Angle)
γ: Soil Effective Unit Weight
N: SPT Blow Count (Blows per Foot) (Uncorrected)

REVISIONS		
DATE	BY	DESCRIPTION

SEMINOLE COUNTY
FLORIDA'S NATURAL CHOICE

2017-18
STANDARD MAST ARM DRAWINGS

SEMINOLE COUNTY TRAFFIC ENGINEERING
140 BUSH LOOP - SANFORD, FL 32773
407-665-5677

FOUNDATION CAPACITIES
(2 OF 2)

SHEET
T-18

NOTE: CONTACT SEMINOLE COUNTY TRAFFIC, JOHN BROWN (407) 665-5644 TO PROVIDE SPECIFIC DETAILS REGARDING SPLICE LOCATIONS AND SPLICE DIAGRAMS.

0 30 60
Feet

R/W LINE

R/W LINE

FOX VALLEY DR

EXIST. 24 SM/12 MM FOC (TO REMAIN)

REPLACE EXIST. FO PULL BOX WITH NEW 24" X 36" FIBER OPTIC PULL BOX

(200 LF)	633-1-123
(72 EA)	633-2-31
(1 EA)	633-3-11
(6 EA)	633-3-12
(1 EA)	635-2-12

INSTALL NEW 36" ROUND FIBER OPTIC VAULT

(200 LF)	633-1-123
(4 EA)	633-2-31
(1 EA)	633-3-11
(1 EA)	633-3-12
(1 EA)	635-2-13

EXIST. CONTROLLER CABINET UTILIZE EXIST. CONDUIT & FOC DROP CABLE

EXIST. OVERHEAD 72 SM FOC (TO REMAIN)

(780 LF) 630-2-12
(780 LF) 633-1-123

INSTALL NEW 36" ROUND FIBER OPTIC VAULT

(200 LF)	633-1-123
(4 EA)	633-2-31
(1 EA)	633-3-11
(1 EA)	633-3-12
(1 EA)	635-2-13

630-2-11 (20 LF)

R/W LINE

R/W LINE

220 221 222 223 224 225 226 227 228

S 41° 21' 11" E

WEKIVA SPRINGS RD

WEKIVA SPRINGS RD

℄ CONST. WEKIVA SPRINGS RD

U-GUARD RISER WITH 1 1/4" INNER DUCT EXTENDING 6' ONTO AERIAL SPAN

630-1-14	(40 LF)
633-1-123	(40 LF)

REMOVE EXIST. 36 SM/12 MM FOC
REMOVE EXIST. CONDUIT AND PULL BOXES
633-1-620 (830 LF)

INSTALL NEW 24" X 36" FIBER OPTIC PULL BOX

(50 LF)	633-1-123
(1 EA)	635-2-12

R/W LINE

R/W LINE

3:46:12 PM
3/28/2022
N:\Projects\SMC20053_Wekiva Springs Road\IIIIII318\signals\PLAN\T01.dgn

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

Pegasus ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD COMMUNICATION PLAN

SHEET NO.
T-19

NOTE: CONTACT SEMINOLE COUNTY TRAFFIC, JOHN BROWN (407) 665-5644 TO PROVIDE SPECIFIC DETAILS REGARDING SPLICE LOCATIONS AND SPLICE DIAGRAMS.

0 30 60
Feet

R/W LINE

R/W LINE

SABAL PALM DR

(780 LF) 630-2-12
(780 LF) 633-1-123

INSTALL NEW 24" X 36" FIBER OPTIC PULL BOX
(50 LF) 633-1-123
(1 EA) 635-2-12

REPLACE EXIST. FO PULL BOX WITH NEW 36" ROUND FIBER OPTIC VAULT

633-1-122	(100 LF)
633-1-123	(200 LF)
633-2-31	(4 EA)
633-3-11	(1 EA)
633-3-12	(1 EA)
635-2-13	(1 EA)

REPLACE EXIST. FO PULL BOX WITH NEW 36" ROUND FIBER OPTIC VAULT

(100 LF)	633-1-123
(84 EA)	633-2-31
(1 EA)	633-3-11
(6 EA)	633-3-12
(1 EA)	635-2-13

EXIST. UNDERGROUND 24 SM/12 MM FOC TO FIRE STATION 16 (TO REMAIN)

FIRE STATION 16

EXIST. UNDERGROUND 36 SM/12 MM FOC (TO REMAIN)

R/W LINE

229 230 231 232 233 234 235 236 237

S 41° 15' 20" E

℄ CONST. WEKIVA SPRINGS RD

WEKIVA SPRINGS RD

UTILIZE EXIST. CONDUIT
633-1-122 (115 LF)

WEKIVA SPRINGS RD

R/W LINE

REMOVE EXIST. 36 SM/12 MM FOC
REMOVE EXIST. CONDUIT
AND PULL BOXES
633-1-620 (780 LF)

EXIST. CONTROLLER CABINET
UTILIZE EXIST. CONDUIT
633-2-32 (12 EA)

R/W LINE

R/W LINE

$TIME$

$DATE$

$FILE$

REVISIONS		
DATE	BY	DESCRIPTION

ENGINEER OF RECORD:
FURSAN S. MUNJED, P.E.
PROFESSIONAL ENGINEER CERTIFICATE NO. 51446
PEGASUS ENGINEERING, LLC
301 WEST STATE ROAD 434, SUITE 309
WINTER SPRINGS, FLORIDA 32708
CERTIFICATE OF AUTHORIZATION NO. 27770

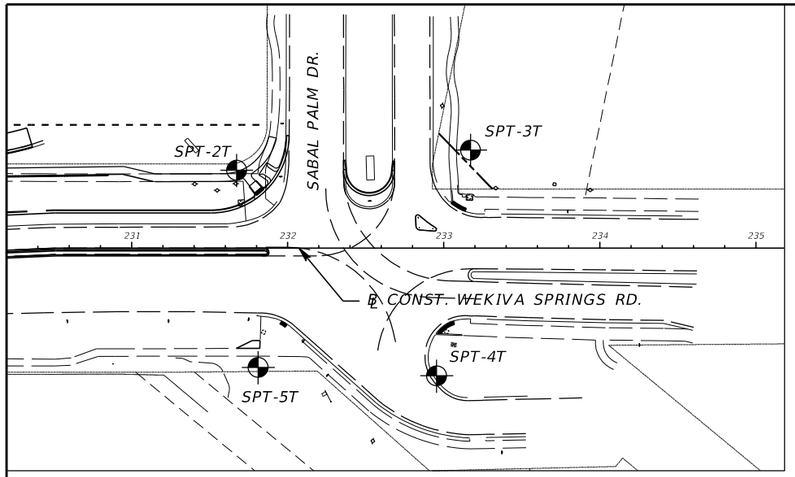
Pegasus ENGINEERING

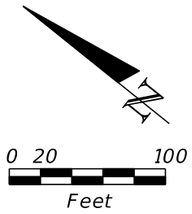
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD COMMUNICATION PLAN

SHEET NO.
T-20





BORING LOCATION PLAN

TOWNSHIP:	20S
RANGE:	29E
SECTION:	33

ENVIRONMENTAL CLASSIFICATION:

SUBSTRUCTURE	CONCRETE: EXTREMELY AGGRESSIVE (ASSUMED)
SUBSTRUCTURE	STEEL: EXTREMELY AGGRESSIVE (ASSUMED)

LEGEND

SAND — CLAYEY SAND

SILTY SAND — SANDY SILT

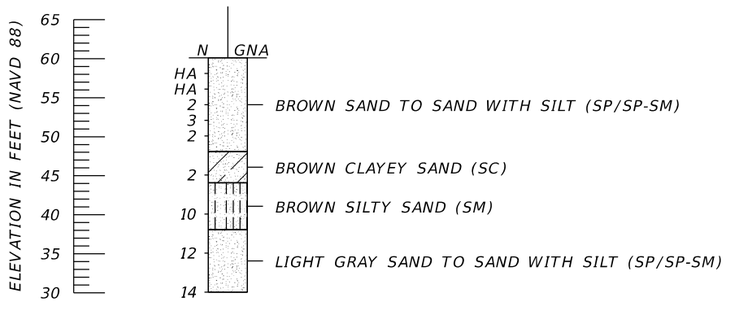
SP	UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
N	NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
HA	HAND AUGERED TO VERIFY UTILITY CLEARANCE
-200	PERCENT PASSING #200 SIEVE
NMC	NATURAL MOISTURE CONTENT (%)
LL	LIQUID LIMIT (%)
PI	PLASTICITY INDEX (%)
NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988
	APPROXIMATE SPT BORING LOCATION
GNA	GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.
℄ CONST.	BASELINE CONSTRUCTION OF WEKIVA SPRINGS RD.

NOTES:

1. DUE TO THE VERY LOOSE TO LOOSE CONDITIONS OF THE SOILS ENCOUNTERED IN THE BORINGS, THE CONTRACTOR SHALL ANTICIPATE THAT CONCRETE OVERRUNS MAY OCCUR DURING THE SHAFT INSTALLATION.
2. DUE TO THE VERY LOOSE SOILS ENCOUNTERED IN BORINGS SPT-1T AND SPT-5T TO A DEPTH OF 13 FEET, THE SHAFT SHOULD NOT BE TIPPED AT A DEPTH OF LESS THAN 15 FEET (ELEVATIONS +49.4 AND +45.0 FEET, NAVD 88).
3. DUE TO VERY LOOSE TO LOOSE SOIL ENCOUNTERED IN BORINGS SPT-2T THROUGH SPT-4T TO AN AVERAGE DEPTH OF 16 FEET, THE SHAFT SHOULD NOT BE TIPPED AT A DEPTH OF LESS THAN 20 FEET (AVERAGE ELEVATION +43.1 FEET, NAVD 88).

SOIL TYPE: 28-40-06 - SEE NOTES

BOR # SPT-2T
STA. 231+72
REF. ℄ CONST.
OFF. 57' LT.
ELEV. 60.1
DATE 2/4/2021
DRILLER I. POORAN
HAMMER AUTOMATIC
RIG D-25

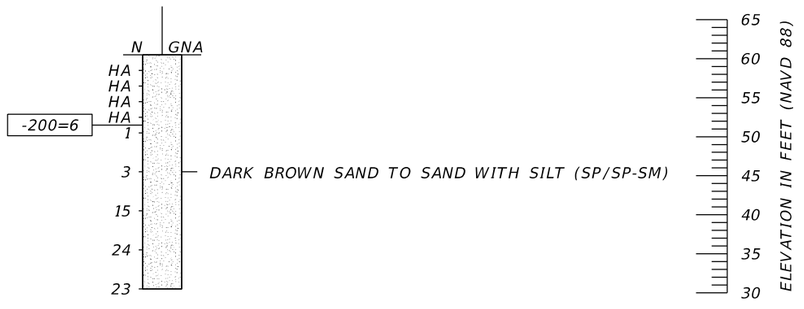


BORING TERMINATED AT ELEVATION 30.1 FT (NAVD 88)

LATITUDE: N 28.70246
LONGITUDE: W 81.41887

SOIL TYPE: 28-40-06 - SEE NOTES

BOR # SPT-3T
STA. 233+17
REF. ℄ CONST.
OFF. 63' LT.
ELEV. 60.5
DATE 12/13/2021
DRILLER R.SCRUGGS
HAMMER AUTOMATIC
RIG D-25



BORING TERMINATED AT ELEVATION 30.5 FT (NAVD 88)

LATITUDE: N 28.70216
LONGITUDE: W 81.41857

	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

TRAFFIC SIGNAL

REVISIONS		
DATE	BY	DESCRIPTION

JEREMY A. SEWELL, P.E.
P.E. LICENSE NUMBER 62951
TIERRA, INC.
591 SUSAN B. BRITT COURT
WINTER GARDEN, FLORIDA 34787

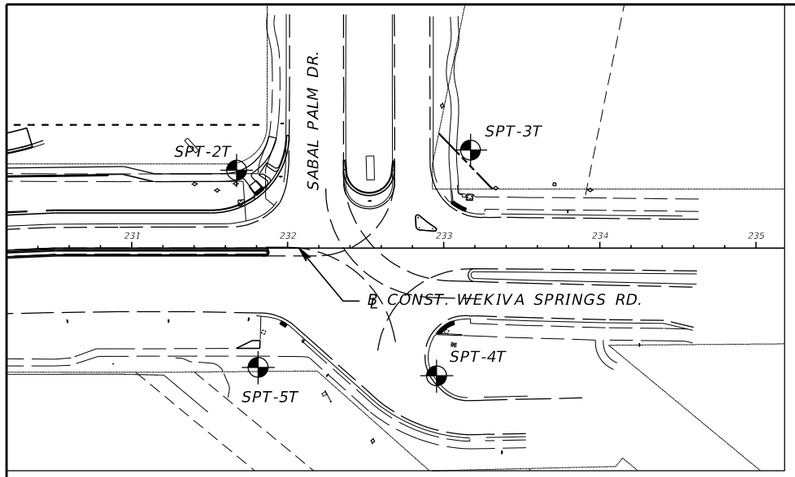
TIERRA GEOTECHNICAL • MATERIALS ENVIRONMENTAL • ENGINEERING

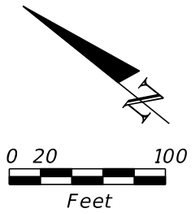
SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
REPORT OF CORE BORINGS

SHEET NO. T-21





BORING LOCATION PLAN

TOWNSHIP:	20S
RANGE:	29E
SECTION:	33

ENVIRONMENTAL CLASSIFICATION:

SUBSTRUCTURE	CONCRETE: EXTREMELY AGGRESSIVE (ASSUMED)
SUBSTRUCTURE	STEEL: EXTREMELY AGGRESSIVE (ASSUMED)

LEGEND

SAND — CLAYEY SAND

SILTY SAND — SANDY SILT

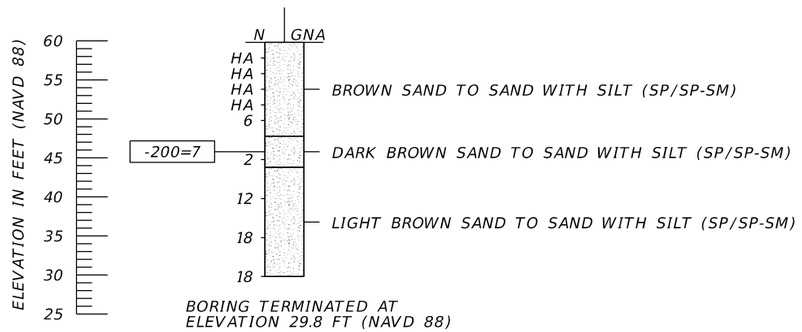
SP	UNIFIED SOIL CLASSIFICATION SYSTEM (ASTM D 2487) GROUP SYMBOL AS DETERMINED BY VISUAL REVIEW AND LABORATORY TESTING ON SELECTED SAMPLES FOR CONFIRMATION OF VISUAL REVIEW.
N	NUMBERS TO THE LEFT OF BORINGS INDICATE SPT VALUE FOR 12 INCHES OF PENETRATION (UNLESS OTHERWISE NOTED).
HA	HAND AUGERED TO VERIFY UTILITY CLEARANCE
-200	PERCENT PASSING #200 SIEVE
NMC	NATURAL MOISTURE CONTENT (%)
LL	LIQUID LIMIT (%)
PI	PLASTICITY INDEX (%)
NAVD 88	NORTH AMERICAN VERTICAL DATUM OF 1988
	APPROXIMATE SPT BORING LOCATION
GNA	GROUNDWATER NOT APPARENT DUE TO THE INTRODUCTION OF DRILLING FLUID.
℄ CONST.	BASELINE CONSTRUCTION OF WEKIVA SPRINGS RD.

NOTES:

1. DUE TO THE VERY LOOSE TO LOOSE CONDITIONS OF THE SOILS ENCOUNTERED IN THE BORINGS, THE CONTRACTOR SHALL ANTICIPATE THAT CONCRETE OVERRUNS MAY OCCUR DURING THE SHAFT INSTALLATION.
2. DUE TO THE VERY LOOSE SOILS ENCOUNTERED IN BORINGS SPT-1T AND SPT-5T TO A DEPTH OF 13 FEET, THE SHAFT SHOULD NOT BE TIPPED AT A DEPTH OF LESS THAN 15 FEET (ELEVATIONS +49.4 AND +45.0 FEET, NAVD 88).
3. DUE TO VERY LOOSE TO LOOSE SOIL ENCOUNTERED IN BORINGS SPT-2T THROUGH SPT-4T TO AN AVERAGE DEPTH OF 16 FEET, THE SHAFT SHOULD NOT BE TIPPED AT A DEPTH OF LESS THAN 20 FEET (AVERAGE ELEVATION +43.1 FEET, NAVD 88).

SOIL TYPE: 28-40-06 - SEE NOTES

BOR #	SPT-4T
STA.	232+95
REF.	℄ CONST.
OFF.	82' RT.
ELEV.	59.8
DATE	12/13/2021
DRILLER	R.SCRUGGS
HAMMER	AUTOMATIC
RIG	D-25

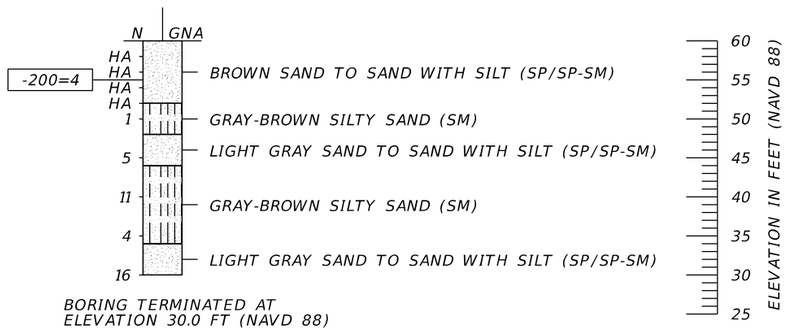


BORING TERMINATED AT ELEVATION 29.8 FT (NAVD 88)

LATITUDE: N 28.70195
LONGITUDE: W 81.41896

SOIL TYPE: 28-40-06 - SEE NOTES

BOR #	SPT-5T
STA.	231+81
REF.	℄ CONST.
OFF.	76' RT.
ELEV.	60.0
DATE	12/13/2021
DRILLER	R.SCRUGGS
HAMMER	AUTOMATIC
RIG	D-25



BORING TERMINATED AT ELEVATION 30.0 FT (NAVD 88)

LATITUDE: N 28.70221
LONGITUDE: W 81.41917

	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

TRAFFIC SIGNAL

REVISIONS		
DATE	BY	DESCRIPTION

JEREMY A. SEWELL, P.E.
P.E. LICENSE NUMBER 62951
TIERRA, INC.
591 SUSAN B. BRITT COURT
WINTER GARDEN, FLORIDA 34787

TIERRA GEOTECHNICAL • MATERIALS ENVIRONMENTAL • ENGINEERING

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
REPORT OF CORE BORINGS

SHEET NO. T-22

SUBSURFACE UTILITY ENGINEERING EXPLORATORY REPORT

EXP: Pole A Client Pegasus Engineering, LLC

Project: Wekiva Springs Road Improvements Project

PROJECT DATA

WO #:	W105878.000	**Station:**	N/A	**PM:**	Scott Sowards
JN:	J064492	**Offset:**	N/A	**Chief:**	Ean hackworth
Task #:	W105878.000	**Date:**	03/22/2022	**Crew:**	Devin okeefe jordan thibault
FPN #:	N/A	**Time:**	8:20 AM	**Weather:**	clear sky, 65F

EXPLORATORY DATA

Pole Type:	Mast arm	**Ground Cover:**	Dirt	**Soil Condition:**	Dry
Pole Size:	60"	**Marker:**	Hub, Lath, Nail and Disk	**Soil Type:**	Dirt

Notes:

Note unknown is possible phone service unable to tone with equipment. Also the electric duct bank is 3x 6.5"

Utility	Type	Height	Width	Material	Depth	From Center	Comments
1	Unknown	1.00	1.000	Direct Buried Cable	1.30	1.35	Possible service line
2	Electric Duct Bank	6.50	13.000	Polyvinyl Chloride	3.00	1.80	N/A

Fgi		Handhole		Back of sidewalk		Latitude/Longitude
FT	15.00	FT	11.30	FT	4.95	28.702457
M:	4.572	M:	3.444	M:	1.508	-81.418940

Location

Site Image

FOR INFORMATION PURPOSES ONLY

Photo Report
Pole A
Wekiva Springs Road Improvements Project

Photo No. 1
Site Image

Photo No. 2
+ cut location

Photo No. 3
BE Duct

Photo No. 4
service line

FOR INFORMATION PURPOSES ONLY

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUBSURFACE UTILITY INFORMATION

SHEET NO. T-23

3:43:13 PM 3/28/2022

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Photo Report
Pole A
Wekiva Springs Road Improvements Project

Photo No. 5
side view

Photo No. 6
front view

Photo No. 7
Site

FOR INFORMATION PURPOSES ONLY

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUBSURFACE UTILITY INFORMATION

SHEET NO.
T-24

3/28/2022 3:43:16 PM
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SUBSURFACE UTILITY ENGINEERING EXPLORATORY REPORT

EXP: Pole B Client Pegasus Engineering, LLC

Project: Wekiva Springs Road Improvements Project

PROJECT DATA

WO #:	W105878.000	**Station:**	N/A	**PM:**	Scott Sowards
JN:	J064492	**Offset:**	N/A	**Chief:**	Ean hackworth
Task #:	W105878.000	**Date:**	03/23/2022	**Crew:**	Devin okeefe
FPN #:	N/A	**Time:**	1:07 PM	**Weather:**	broken clouds, 84F

EXPLORATORY DATA

Pole Type:	Mast arm	**Ground Cover:**	Dirt	**Soil Condition:**	Dry
Pole Size:	60"	**Marker:**	Hub, Lath, Nail and Disk	**Soil Type:**	Dirt

Notes:

Dug down to 7 feet air lanced to 10. Location is not clear.

Utility	Type	Height	Width	Material	Depth	From Center	Comments
1	Communication	1.50	1.500	HDPE	3.80	.20	In conflict
2	Sanitary Force Main	12.50	12.500	Metal	7.60	.90	City employee confirmed force main location.

Handhole		Hand hole		Sidewalk		Latitude/Longitude
FT	16.60	FT	6.50	FT	2.30	28.702165
M:	5.059	M:	1.981	M:	0.701	-81.418586

Location

Site Image

FOR INFORMATION PURPOSES ONLY

SSMC SUE • SURVEY • GIS

Photo Report
Pole B
Wekiva Springs Road Improvements Project

Photo No. 1
Site Image

Photo No. 2
Side view

Photo No. 3
Excavated Area

Photo No. 4
Communication line

FOR INFORMATION PURPOSES ONLY

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUBSURFACE UTILITY INFORMATION

SHEET NO. T-25

3:43:18 PM 3/28/2022

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Photo Report
Pole B
Wekiva Springs Road Improvements Project

Photo No. 5
finished view

Photo No. 6
finished view

Photo No. 7
Site Image

FOR INFORMATION PURPOSES ONLY

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	

SEMINOLE COUNTY ENGINEERING DIVISION		WEKIVA SPRINGS ROAD SUBSURFACE UTILITY INFORMATION	SHEET NO.
ROAD NAME	COUNTY CIP NO.		
WEKIVA SPRINGS ROAD	02007027		T-26

3:43:22 PM 3/28/2022

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SUBSURFACE UTILITY ENGINEERING EXPLORATORY REPORT

EXP: Pole C Client Pegasus Engineering, LLC

Project: Wekiva Springs Road Improvements Project

SSMC SUE • SURVEY • GIS

PROJECT DATA

WO #:	W105878.000	**Station:**	N/A	**PM:**	Scott Sowards
JN:	J064492	**Offset:**	N/A	**Chief:**	Ean hackworth
Task #:	W105878.000	**Date:**	03/22/2022	**Crew:**	Devin okeef Jordan thibault
FPN #:	N/A	**Time:**	11:20 AM	**Weather:**	scattered clouds, 76F

EXPLORATORY DATA

Pole Type:	Mast arm	**Ground Cover:**	Dirt	**Soil Condition:**	Dry
Pole Size:	60"	**Marker:**	Hub, Lath, Nail and Disk	**Soil Type:**	Dirt

Notes:

Heavy amounts of debris and asphalt at location. Unable to clear one side due to debris. Air lanced to 10 feet and excavated to 6 feet. Area not clear, Per EOR moved location 2 feet west to avoid hitting duct bank.

Utility	Type	Height	Width	Material	Depth	From Center	Comments
1	Comm Duct Bank	9.00	9.000	Polyvinyl Chloride	4.50	1.60	3 times 4.5 "

Mast arm		E/p		Hand hole		Latitude/Longitude
FT	10.20	FT	7.50	FT	9.55	28.702101
M:	3.108	M:	2.286	M:	2.910	-81.418893

Location

Site Image

FOR INFORMATION PURPOSES ONLY

SSMC SUE • SURVEY • GIS

Photo Report
Pole C
Wekiva Springs Road Improvements Project

Photo No. 1
Pre- Dig

Photo No. 2
side view

Photo No. 3
Excavated location

Photo No. 4
Site Image

FOR INFORMATION PURPOSES ONLY

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUBSURFACE UTILITY INFORMATION

SHEET NO. T-27

3:43:23 PM 3/28/2022

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Photo Report
Pole C
Wekiva Springs Road Improvements Project

Photo No. 5
side view

FOR INFORMATION PURPOSES ONLY

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUBSURFACE UTILITY INFORMATION

SHEET NO.
T-28

3/28/2022 3:43:27 PM
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SUBSURFACE UTILITY ENGINEERING EXPLORATORY REPORT

EXP: Pole D Client Pegasus Engineering, LLC

Project: Wekiva Springs Road Improvements Project

PROJECT DATA

WO #:	W105878.000	**Station:**	N/A	**PM:**	Scott Sowards
JN:	J064492	**Offset:**	N/A	**Chief:**	Ean hackworth
Task #:	W105878.000	**Date:**	03/23/2022	**Crew:**	Devin okeefe
FPN #:	N/A	**Time:**	8:35 AM	**Weather:**	overcast clouds, 71F

EXPLORATORY DATA

Pole Type:	Mast arm	**Ground Cover:**	Concrete	**Soil Condition:**	Dry
Pole Size:	60"	**Marker:**	Chiseled X	**Soil Type:**	Dirt

Notes:

Duct bank is in conflict BTE also found in middle of structure. Dug to 5 feet probed with air lance to 10. Note debris in area.
Location is not clear

Utility	Type	Height	Width	Material	Depth	From Center	Comments
1	Communication	1.00	1.000	Direct Buried Cable	2.00	.10	May be possible to move cable.
2	Comm Duct Bank	12.00	12.000	Plastic	3.40	2.00	Duct bank is encased.

Sidewalk		Mast arm		Traffic Hand hole		Latitude/Longitude
FT	2.30	FT	8.70	FT	9.75	28.702253
M:	0.701	M:	2.651	M:	2.971	-81.419128

Location

Site Image

FOR INFORMATION PURPOSES ONLY

SSMC SUE • SURVEY • GIS

Photo Report
Pole D
Wekiva Springs Road Improvements Project

Photo No. 1
Site Image

Photo No. 2
side view

Photo No. 3
Excavated Area

Photo No. 4
side view finished

FOR INFORMATION PURPOSES ONLY

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUBSURFACE UTILITY INFORMATION

SHEET NO.
T-29

3:43:28 PM 3/28/2022

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Photo Report
Pole D
Wekiva Springs Road Improvements Project

Photo No. 5
Cable

Photo No. 6
Duct

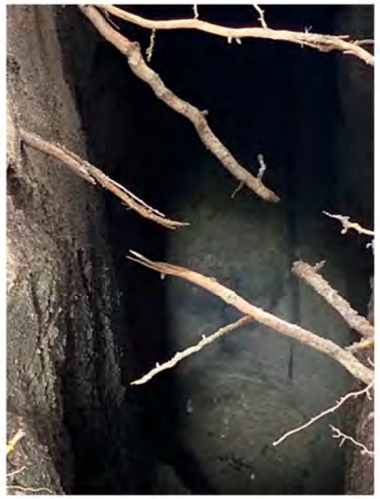

Photo No. 7
Duct

FOR INFORMATION PURPOSES ONLY

REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	

SEMINOLE COUNTY
ENGINEERING DIVISION

ROAD NAME	COUNTY CIP NO.
WEKIVA SPRINGS ROAD	02007027

WEKIVA SPRINGS ROAD
SUBSURFACE UTILITY INFORMATION

SHEET NO.
T-30

3/28/2022 3:43:34 PM
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