ALAFAYA TRAIL AND UNIVERSITY BLVD PEDESTRIAN SAFETY IMPROVEMENTS

PHASE I

ALAFAYA TRAIL FROM RESEARCH PY TO McCULLOCH RD
UNIVERSITY BLVD FROM QUADRANGLE BLVD TO ALAFAYA TR

CIP: 5134

ORANGE COUNTY, FLORIDA
DISTRICT 5
100% DESIGN

INDEX OF SUBSETS

ROADWAY PLANS
SIGNING AND MARKING PLANS
SIGNALIZATION PLANS
LANDSCAPE PLANS

SOURCE OF BENCHMARK DATUM

B.M. #1

C-803-010
ORANGE COUNTY BRASS DISK, NORTH END OF CURB INLET, WEST SIDE OF ALAFAYA TRAIL,
N: 1552100.680'
E: 589481.988'
EL: 82.787'

B.M. #2

L-1032-003
ORANGE COUNTY BRASS DISK
N: 1549963.195'
E: 589437.162'
EL: 85.88'

SEE SURVEY CONTROL SHEET FOR ADDTIONAL B.M. INFORMATION

PROJECT LENGTH:	FEET	MILES
ROADWAY:	11,151	2.11
EXIST. BRIDGES:	0.00	0.00
TOTAL LENGTH:	11,151	2.11

END CONST.
STA 29+00.46
℄ CONST UNIVERSITY

BEGIN CONST.
STA 4+81.76
℄ CONST UNIVERSITY

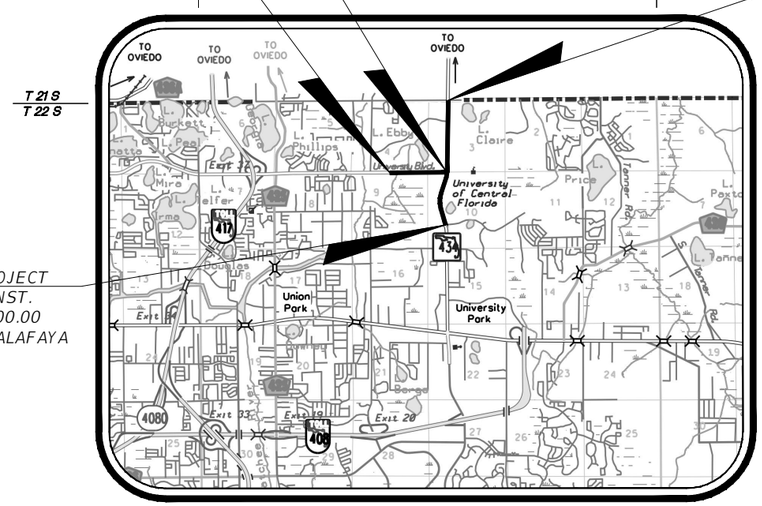
BEGIN PROJECT
BEGIN CONST.
STA 127+00.00
℄ CONST ALAFAYA

END PROJECT
END CONST.
STA 214+32.23
℄ CONST ALAFAYA

R 30 S / R 31 S

R 31 S / R 32 S

T 21 S / T 22 S



VICINITY MAP



0 0.5 2
MILES

GOVERNING STANDARDS AND SPECIFICATIONS :

FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS DATED 2021 - 2022 AND APPLICABLE DESIGN STANDARDS REVSIONS (DSRs) AT THE FOLLOWING WEBSITE: HTTP://WWW.FDOT.GOV/ROADWAY
FDOT MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR STREETS, AND HIGHWAYS, DATED 2021
FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED JULY 2021 AS AMENDED BY CONTRACT DOCUMENTS.

JERRY L. DEMINGS, COUNTY MAYOR

DUKE ENERGY DISTRIBUTION MARK-UP ENGINEER:
Cullen Abernethy
CONTACT PHONE: (412) 992-6840
CONTACT E-MAIL: Cullen.Abernethy@duke-energy.com
WO: 41473623
CONTRACTOR TO PERFORM LOCATES AND IDENTIFY ANY UNDERGROUND ELECTRIC FACILITIES NOT IDENTIFIED ON THIS MAP. ALSO, CONTRACTOR TO ADHERE TO APPLICABLE OSHA REQUIREMENTS REGARDING PERFORMING WORK AND OPERATING EQUIPMENT ADJACENT TO ENERGIZED OVERHEAD AND UNDERGROUND ELECTRIC CONDUCTORS.

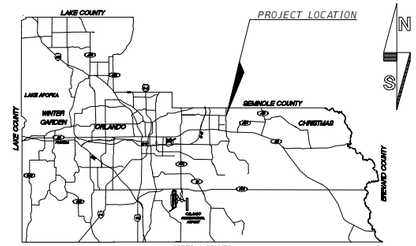
NOTE

PLANS WERE PREPARED ACCORDING TO AVAILABLE INFORMATION TO ADEQUATELY ADDRESS CONDITIONS AS THEY EXISTED AT THE TIME OF PLANS PREPARATION. NEEDS, CONDITIONS AND OWNERSHIP OF PROPERTIES MAY HAVE CHANGED SINCE PROJECT DESIGN. THE COUNTY'S REPRESENTATIVE WILL ADDRESS CHANGES AND NEEDS WITH THE PROPERTY OWNER OR THEIR REPRESENTATIVES. CONTRACTOR SHALL WORK WITH THE COUNTY'S REPRESENTATIVE IN ADDRESSING AND MEETING NEEDS AND CONDITIONS THAT MAY HAVE CHANGED SINCE PLANS PREPARATION.

CERTIFICATION TO PLANS

I HEREBY CERTIFY THAT THE DESIGN FOR THIS PROJECT AND THE ATTACHED CONSTRUCTION PLANS COMPLY WITH THE REQUIREMENTS OF SECTION 336.045 OF THE FLORIDA STATUTES AND ARE IN SUBSTANTIAL CONFORMANCE WITH THE STANDARDS CONTAINED IN THE EDITION OF THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" IN EFFECT ON THIS DATE AS ADOPTED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION PURSUANT TO SUBSECTION 336.045(1) OF THE FLORIDA STATUTES.

DATE: 06/04/21 ENGINEER: CLINT PLETZER, P.E. NO. 69221



LOCATION MAP

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6	SUMMARY OF PAY ITEMS
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12-16	SUMMARY OF QUANTITIES
17	SUMMARY OF DRAINAGE STRUCTURES
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T-1-T-13	SIGNALIZATION PLANS
L-1-L-24	LANDSCAPE PLANS

UTILITIES ENCOUNTERED

AT&T DISTRIBUTION	(800) 778-9140
BLACK & VEATCH ORLANDO	(407) 419-3606
CENTURYLINK	(877) 366-8344
CHARTER COMMUNICATIONS	(407) 532-8092
CITY OF ORLANDO - RECLAMATION	(407) 246-3798
CROWN CASTLE FIBER	(801) 364-1063
DUKE ENERGY	(800) 778-9140
ORANGE COUNTY UTILITIES	(407) 836-6869
SUMMIT BROADBAND	(407) 996-1183
SEMINOLE COUNTY TRAFFIC	(407) 665-5642
TECO PEOPLES GAS	(813) 228-4025
UNITI FIBER	(877) 652-2321
UNIVERSITY OF CENTRAL FLORIDA	(407) 823-2000
UTILITIES & ENERGY SERVICE	(858) 888-0503
VERIZON	(919) 414-2782

PREPARED BY:

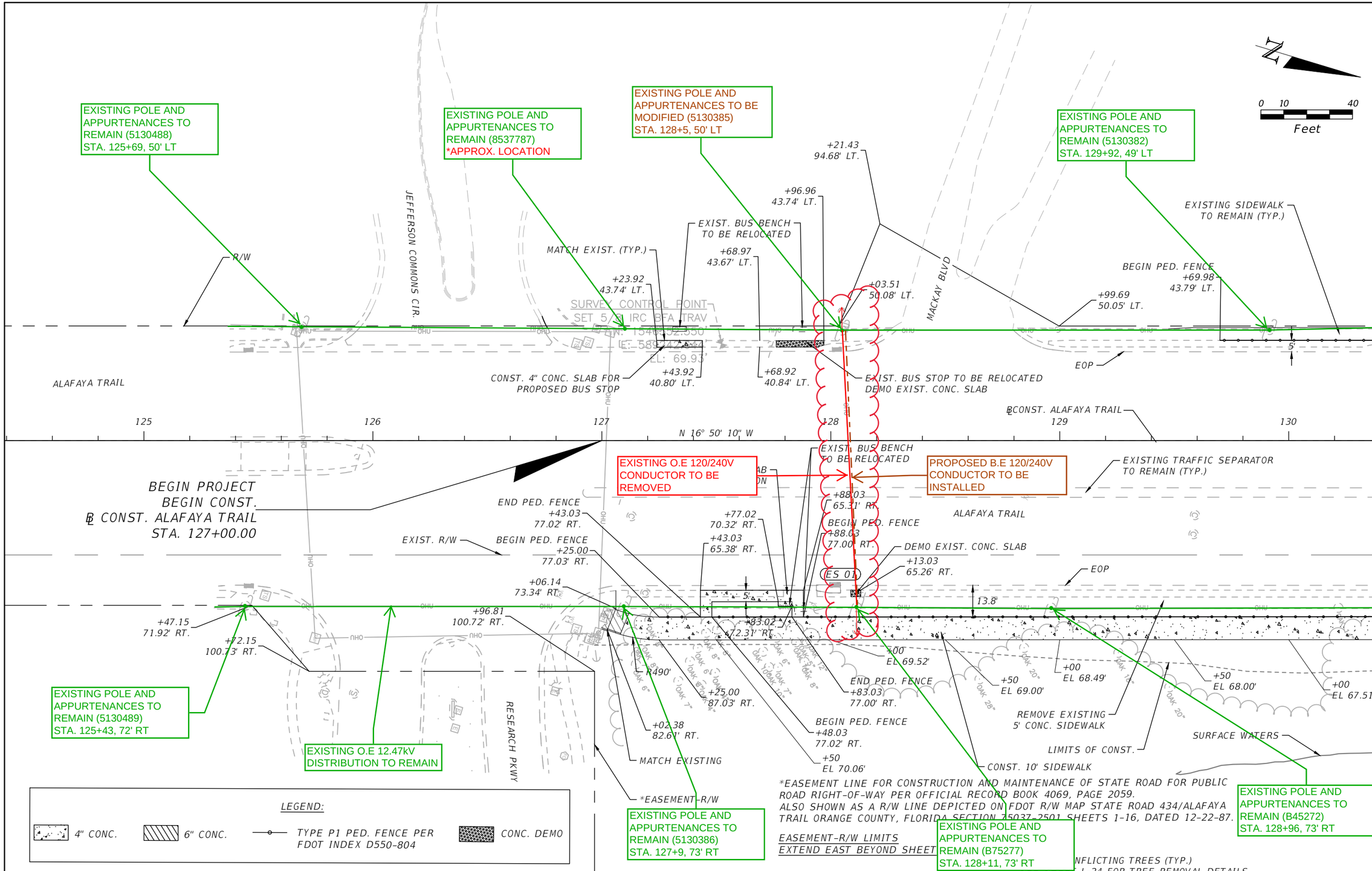
AVCON

AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com

REVISIONS	DATE	BY

DESIGNED BY:	CNW	DATE:	06/08/21
DRAWN BY:	CNW	DATE:	06/08/21
CHECKED BY:	CJP	DATE:	06/08/21
APPROVED BY:	RVB	DATE:	06/08/21
PROJECT NO:			

SHEET 1
OF 236



MATCHLINE STA. - 130+40.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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AVCON

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5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - ALAFAYA TRAIL

SHEET NO. 41

FERRER, JOSE 6/8/2021 6:31:36 PM

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CURVE DATA Alafaya Trail (5)
PI STA. = 138+25.80
DELTA = 33° 59' 46"
D = 2° 59' 59"
T = 583.90
L = 1133.33
R = 1910.08
PC STA. = 132+41.90
PT STA. = 143+75.23

N

0 10 40
Feet

EXISTING POLE AND APPURTENANCES TO REMAIN (846105) STA. 130, 50' LT

EXISTING O.E 0V SPAN GUY WIRE TO REMAIN

R/W

ALAFAYA COMMONS CIRCLE

EXISTING POLE AND APPURTENANCES TO REMAIN (5130395) STA. 134, 50' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (5130365) STA. 135+40, 49' LT

ING SIDEWALK MAIN (TYP.)

END PED. FENCE
+21.54
43.91' LT.

+19.90
50.73' LT.

SURVEY CONTROL POINT
SET 5/8 IRC BFA TRAV
N: 1547084.943'
E: 589104.970'
EL: 66.96'

BEGIN PED. FENCE
+00.80
44.17' LT.

+44.98
44.11' LT.

+65.87
44.18' LT.

5'

EOP

+41.93
50.05' LT.

5.1'

EXISTING O.E 120/240V CONDUCTOR TO REMAIN

EXISTING O.E 0V SPAN GUY WIRE TO REMAIN

℄CONST. ALAFAYA TRAIL

131 132 133 134 135 136

N 16° 50' 10" W

MATCHLINE STA. - 130+40.00

PC STA. 132+41.90

MATCHLINE STA. - 136+20.00

ALAFAYA TRAIL

EXIST. BUS STOP TO BE REMOVED
DEMO EXIST. CONC. SLAB

ES 03

+50.55
65.02' RT.

+43.32
76.99' RT.

EXIST. R/W

EOP

ES 02

+40.39
76.83' RT.

13.9'

+00
EL 66.50'

+50
EL 66.00'

+00
EL 65.50'

+40.39
86.83' RT.

+50
EL 65.02'

+00
EL 64.58'

+50
EL 64.16'

CONST. 10' SIDEWALK

+00
EL 63.90'

+50
EL 63.40'

+00
EL 63.95'

+50
EL 64.18'

+00
EL 63.91'

+50
EL 67.01'

EXISTING POLE AND APPURTENANCES TO REMAIN (B75273) STA. 130+84, 73' RT

SURFACE WATERS

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

EXISTING POLE AND APPURTENANCES TO REMAIN (845274) STA. 132+66, 73' RT

R1850'

LIMITS OF CONST.

EXISTING POLE AND APPURTENANCES TO REMAIN (846042) STA. 133+95, 73' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (845263) STA. 135+33, 72' RT

REMOVE EXISTING 5' CONC. SIDEWALK

LEGEND:

4" CONC. | 6" CONC. | TYPE P1 PED. FENCE PER FDOT INDEX D550-804 | CONC. DEMO

*EASEMENT LINE FOR CONSTRUCTION AND MAINTENANCE OF STATE ROAD FOR PUBLIC ROAD RIGHT-OF-WAY PER OFFICIAL RECORD BOOK 4069, PAGE 2059. ALSO SHOWN AS A R/W LINE DEPICTED ON FDOT R/W MAP STATE ROAD 434/ALAFAYA TRAIL ORANGE COUNTY, FLORIDA SECTION 75037-2501 SHEETS 1-16, DATED 12-22-87.

EASEMENT-R/W LIMITS EXTEND EAST BEYOND SHEET

REMOVE CONFLICTING TREES (TYP.)
SEE SHEET L-24 FOR TREE REMOVAL DETAILS

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - ALAFAYA TRAIL

SHEET NO. 42

FERRER, JOSE 6/8/2021 6:31:51 PM

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EXISTING POLE AND APPURTENANCES TO REMAIN (B88125) STA. 136+36, 49' LT

EXISTING O.E 7.2kV DISTRIBUTION TO REMAIN *APPROX. LOCATION

EXISTING POLE AND APPURTENANCES TO REMAIN (B88093) STA. 137+82, 58' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (976295) *APPROX LOCATION

EXISTING POLE AND APPURTENANCES TO REMAIN (810739) STA. 139+75, 51' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (5130327) STA. 139+89, 51' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (846101) *APPROX LOCATION

EXISTING POLE AND APPURTENANCES TO REMAIN (B88131) STA. 141+69, 49' LT

EXISTING O.E 120/240V CONDUCTOR TO REMAIN

EXISTING O.E 0V SPAN GUY WIRE TO REMAIN

EXISTING O.E 0V SPAN GUY WIRE TO REMAIN *APPROX. LOCATION

EXISTING O.E 120/240V CONDUCTOR TO REMAIN *APPROX LOCATION

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

EXISTING POLE AND APPURTENANCES TO REMAIN (845204) STA. 137+78, 73' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (845276) STA. 139+98, 73' RT *CONFLICT WITH COMM'S ANCHORs

EXISTING POLE AND APPURTENANCES TO REMAIN (845265) STA. 141+17, 73' RT

EXISTING SIDEWALK TO REMAIN (TYP.)

EXIST. BUS STOP TO REMAIN

EXIST. BUS STOP TO BE REMOVED

REMOVE EXISTING 5' CONC. SIDEWALK

REMOVE CONFLICTING TREES (TYP.)
SEE SHEET L-24 FOR TREE REMOVAL DETAILS

CURVE DATA Alafaya Trail (6)
PI STA. = 138+25.80
Δ = 33° 59' 46"
PC STA. =
PT STA. = 143+75.23

SURVEY CONTROL POINT
SET 5/8 IRC BEA TRAV
N: 1547933.480'
E: 880013.539'
EL: 66.57'

WALDEN WOODS DR

MENDEL DR

ALAFAYA TRAIL

CONST. ALAFAYA TRAIL

MATCHLINE STA. - 136+20.00

MATCHLINE STA. - 142+00.00

*EASEMENT LINE FOR CONSTRUCTION AND MAINTENANCE OF STATE ROAD FOR PUBLIC ROAD RIGHT-OF-WAY PER OFFICIAL RECORD BOOK 4069, PAGE 2059. ALSO SHOWN AS A R/W LINE DEPICTED ON FDOT R/W MAP STATE ROAD 434/ALAFAYA TRAIL ORANGE COUNTY, FLORIDA SECTION 75037-2501 SHEETS 1-16, DATED 12-22-87.

EASEMENT-R/W LIMITS
EXTEND EAST BEYOND SHEET

LEGEND:
4" CONC. | 6" CONC. | TYPE P1 PED. FENCE PER FDOT INDEX D550-804 | CONC. DEMO

0 10 40
Feet

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - ALAFAYA TRAIL

SHEET NO. 43

FERRER, JOSE 6/8/2021 6:32:18 PM

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EXISTING O.E 120/240V CONDUCTOR TO REMAIN

EXISTING POLE AND APPURTENANCES TO REMAIN (846032) STA. 142+66, 49' LT

EXISTING O.E 0V SPAN GUY WIRE TO REMAIN

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

CUSTOMER OWNED POLE TO BE RELOCATED BY TECO

EXISTING POLE AND APPURTENANCES TO BE REMOVED (B258243) STA. 142+64, 90' RT

PROPOSED B.E 12.47kV DISTRIBUTION TO BE INSTALLED

EXISTING O.E 12.47kV DISTRIBUTION TO BE REMOVED

EXISTING POLE AND APPURTENANCES TO BE MODIFIED (SLACK POLE) STA. 143+25, 106' RT

EXISTING POLE AND APPURTENANCES TO BE MODIFIED (6019558) STA. 142+63, 73' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (6019556) STA. 143+10, 74' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (6019557) STA. 143+21, 74' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (B258242) STA. 143+24, 89' RT

EXISTING POLE AND APPURTENANCES TO BE MODIFIED (B254241) STA. 144+5, 111' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (846176) *APPROX LOCATION

EXISTING B.E 12.47kV DISTRIBUTION TO REMAIN *APPROX. LOCATION

EXISTING POLE AND APPURTENANCES TO REMAIN (8007039) STA. 144+23, 114' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (8007038) STA. 144+5, 111' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (846174) STA. 145+86, 49' LT

EXISTING B.E 12.47kV DISTRIBUTION TO REMAIN *APPROX. LOCATION - PLEASE SURVEY TO CONFIRM ANY CONFLICTs WITH PROPOSED DRAINAGE

EXISTING B.E 120/240V CONDUCTOR TO REMAIN *APPROX. LOCATION

EXISTING POLE AND APPURTENANCES TO REMAIN (5129594) STA. 147+65, 50' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (8541623) STA. 147+40, 89' RT

EXISTING B.E 120/240V CONDUCTOR TO REMAIN *APPROX. LOCATION

REMOVE CONFLICTING TREES (TYP.)
SEE SHEET L-24 FOR TREE REMOVAL DETAILS

CURVE DATA Alafaya Trail (1)
PI STA. = 138+25.80
DELTA = 33° 59' 46"
D = 2° 59' 59"
T = 583.90
L = 1133.33
R = 1910.08
PC STA. = 132+41.90
PT STA. = 143+75.23

+94.33
170.61' LT.

R/W

DARWIN DR

END PED. FENCE
+28.89
44.38' LT.

+46.32
51.08' LT.

+02.90
55.57' LT.

+18.28
50.57' LT.

SURVEY CONTROL POINT
SET 5/8 IRC BFA TRAV
N: 1548001.738'
E: 589060.858'
EL: 66.12'

SURVEY CONTROL POINT
SET 5/8 IRC BFA TRAV
N: 1548462.770'
E: 588185.849'
EL: 65.52'

EXISTING SIDEWALK TO REMAIN (TYP.)

BEGIN PED. FENCE
+12.53
44.37' LT.

END PED. FENCE
+81.16
44.40' LT.

BEGIN PED. FENCE
+89.23
44.40' LT.

END PED. FENCE
+36.85
44.42' LT.

RECONSTRUCT DETECTABLE WARNING SURFACE AS INDICATED (TYP.)

RECONST. ALAFAYA TRAIL

ALAFAYA TRAIL

EXIST. TYPE E CURB & GUTTER TO REMAIN

N 17° 09' 36" E

S 02-1
STA 145+41.72 (63.66' RT.)
CONST. INDEX NO. 425-001
- TYPE 7 MANHOLE (1 OR 2-PIECE COVER (CENTER), RECTANGULAR BOTTOM)
E INV. 57.50'

S 02
STA 145+41.68 (75.09' RT.)
CONST. INDEX NO. 425-021
- CURB INLET TYPE 5 (LEFT) WITH RECTANGULAR STRUCTURE BOTTOM
W INV. 57.60'

CONST. 11 LF 18" RCP @ 0.87%

S 01
STA 143+66.06 (66.02' RT.)
CONST. INDEX NO. 211 - CURB INLET TYPE 5 (RIGHT) WITH RECTANGULAR STRUCTURE BOTTOM

END PED. FENCE
+47.04
5.53' RT.

BEGIN PED. FENCE
+31.65
78.01' RT.

EXIST. R/W

*EXIST. EASEMENT-R/W

EOP

REMOVE AND RECONSTRUCT PER FDOT INDEX 522-003

CONST. 6" CONC. SLAB EXTENSION

REMOVE EXISTING 5' CONC. SIDEWALK

CONST. 10'

SURFACE WATERS

SURFACE WATERS

LIMITS OF CONST.

MATCH EXIST.

CENTRAL FLORIDA BLVD

MATCHLINE STA. - 142+00.00

MATCHLINE STA. - 147+80.00

LEGEND:
4" CONC.
6" CONC.
TYPE P1 PED. FENCE PER FDOT INDEX D550-804

0 10 40
Feet

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

TRAIL ORANGE COUNTY, FLORIDA SECTION 75037-2501 SHEETS

REVISIONS
DESCRIPTION | DATE | DESCRIPTION
---- | ----

AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com
ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - ALAFAYA TRAIL

SHEET NO. 44

FERRER, JOSE 6/8/2021 6:32:54 PM

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REMOVE CONFLICTING TREES (TYP.)
SEE SHEET L-24 FOR TREE REMOVAL DETAILS

0 10 40
Feet

Apparent Transmission, please consult with:
DEFtransmissionGOV@duke-energy.com

MATCHLINE STA. - 147+80.00

STERLING CENTRAL APARTMENTS

EXISTING B.E 120/240V CONDUCTOR TO REMAIN
*APPROX. LOCATION

EXISTING POLE AND APPURTENANCES TO REMAIN (8541622)
*APPROX LOCATION

EXISTING B.E 12.47kV DISTRIBUTION TO REMAIN
*APPROX. LOCATION - PLEASE SURVEY FOR ACCURACY

EXISTING B.E 120/240V CONDUCTOR TO REMAIN
*APPROX. LOCATION

EXISTING POLE AND APPURTENANCES TO REMAIN (8541624)
*APPROX LOCATION

EXISTING POLE AND APPURTENANCES TO REMAIN (8541623)
*APPROX LOCATION

EXISTING POLE AND APPURTENANCES TO REMAIN (5129590)
STA. 149+59, 72' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (845269)
STA. 150+53, 72' RT

EXISTING POLE AND APPURTENANCES TO BE REMOVED (846048)
STA. 152+58, 103' RT

PROPOSED O.E 12.47kV DISTRIBUTION TO BE INSTALLED

PROPOSED O.E 0V SPAN GUY WIRE TO BE INSTALLED

PROPOSED POLE AND APPURTENANCES TO BE INSTALLED (DE POLE)
STA. 151+84, 73' RT

PROPOSED POLE AND APPURTENANCES TO BE INSTALLED (SPAN GUY)
STA. 151+84, 90' RT

PROPOSED POLE AND APPURTENANCES TO BE INSTALLED (DE POLE)
STA. 152+17, 72' RT

EXISTING O.E 12.47kV DISTRIBUTION TO BE REMOVED

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

EXISTING O.E 120/240V CONDUCTOR TO REMAIN

EXISTING O.E 0V SPAN GUY WIRE TO REMAIN

EXISTING POLE AND APPURTENANCES TO BE MODIFIED (845270)
STA. 152+55, 72' RT
*RECOMMEND ADJUSTING SIDEWALK JOG BEFORE POLE AT STA. 152+58

CENTRAL FLORIDA BLVD

SOLON DR

EXIST. TRAFFIC SEPARATOR TO REMAIN

CONST. 4" CONC. SLAB FOR PROPOSED BUS STOP

CONSTRUCT 4' TRAFFIC SEPARATOR (TYPE 1 OPTION II)

EXIST. CONC. SLAB TO BE REMOVED

EXISTING SIDEWALK TO REMAIN (TYP.)

EXIST. MONUMENT TO REMAIN

SURVEY CONTROL POINT
SET 5/8" IRC BFA TRAV
N: 1548912.650'
E: 589334.459'
EL 74.58'

BEGIN PED. FENCE
+86.06
44.55' LT.

END PED. FENCE
+51.68
44.62' LT.

END PED FENCE
+77.15
8.94' RT.

BEGIN PED. FENCE
+17.29
20.09' RT.

END PED. FENCE
+46.04
76.84' RT.

BEGIN PED. FENCE
+73.79
76.89' RT.

END PED. FENCE
+66.79
76.90' RT.

BEGIN PED. FENCE
+94.69
77.62' RT.

CONST. 10' SIDEWALK

CONST. 4" SIDEWALK EXTENSION

CONST. 4" CONC. PAD FOR PROPOSED BUS STOP

BEGIN PED. FENCE

LIMITS OF CONST.

PROP. EASEMENT

PROP. BUS BENCH

DEMO EXIST. CONCRETE

ROADWAY WIDENING

ALAFAYA TRAIL

EOP

R/W

*EASEMENT-R/W

PC STA. 152+35.44

L = 515.56
R = 1910.08
PC STA. = 152+35.44
= 158+11.00

+36.62 50.37' LT.
+79.52 44.43' LT.
+87.52 180.20' LT.
+87.46 55.20' LT.
+72.46 50.21' LT.
+47.94 55.19' LT.
+90.32 49.65' LT.
+63.30 50.19' LT.
+57.48 44.45' LT.
+57.48 41.88' LT.
+27.99 46.54' LT.
+27.64 41.66' LT.
+12.89 41.72' LT.
+12.89 39.62' LT.
+06.76 40.98' LT.
+90.42 39.63' LT.
+96.54 40.95' LT.
+91.46 1.35' LT.
+94.24 5.79' RT.
+09.19 2.63' LT.
+05.70 5.50' RT.
+83.40 7.88' RT.
+75.39 64' RT.
+71.75 74' RT.
+73.72 62.94' RT.
+88.59 26.07' RT.
+86.28 63.16' RT.
+90.07 68.25' RT.
+85.55 17.8
+97.63
+80.99 19.97' RT.
+80.99 24.04' RT.
+64.82 78.92' RT.
+58.72 83.00' RT.
+63.11 78.20' RT.
+59.55 84.64' RT.
+53.56 92.51' RT.
+63.87 84.38' RT.
+64.25 91.87' RT.
+64.81 91.40' RT.
+66.69 91.22' RT.
+73.32 70.72' RT.
+79.27 68.52' RT.
+94.52 64.83' RT.
+07.77 78.83' RT.
+94.74 79.04' RT.
+79.75 79.28' RT.
+79.32 79.28' RT.
+76.00 84.47' RT.
+72.39 86.85' RT.
+64.81
+26.82 64.77' RT.
+23.84 73.68' RT.
+09.32 68.80' RT.
+28.58 75.27' RT.
+71.77 64.66' RT.
+32.77 86.95' RT.
+50.98 72.67' RT.
+69.72 72.87' RT.
+46.04 76.84' RT.
+75.49 72.96' RT.
+84.16 73.14' RT.
+50.95 76.85' RT.
+52.98 86.89' RT.
+89.89 77.54' RT.
+94.8 68.36' R
+00 EL 70.23'
+50 EL 71.46'
+00 EL 72.56'
+50 EL 73.64'
+00 EL 74.72'
+50 EL 75.60'
+00 EL 76.42'
+50 EL 76.92'
+00 EL 77.47'
+50 EL 77.83'

R36' R57' R50' R1' R2' R96' R10' R2' R1' R2' R1' R1' R1' R1' R2' R1' R2' R1' R2

REMOVE CONFLICTING TREES (TYP.)
SEE SHEET L-24 FOR TREE REMOVAL DETAILS

Apparent Transmission, please consult with:
DEFtransmissionGOV@duke-energy.com

PROPOSED POLE AND APPURTENANCES TO BE INSTALLED (SLACK POLE)
STA. 156+89, 50' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (5129561)
*APPROX LOCATION

EXISTING POLE AND APPURTENANCES TO REMAIN (8590219)
STA. 157+84, 49' LT

Apparent Transmission, please consult with:
DEFtransmissionGOV@duke-energy.com

N

0 10 40
Feet

CURVE DATA Alafaya Trail (2)
PI STA. = 155+25.42
DELTA = 17° 15' 53"
D = 2° 59' 59"
T = 289.98
L = 575.56
R = 1910.08'
PC STA. = 152+35.44
PT STA. = 158+11.00

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

EXISTING SIDEWALK TO REMAIN (TYP.)

R/W

PASTEUR DR

R/W

PROP. BUS BENCH
MATCH EXIST.
CONSTRUCT 4" CONC.
SLAB FOR PROPOSED BUS STOP
R338'
+03.55
44.75' LT.
EOP
+03.61
41.80' LT.

EXIST. BUS BENCH TO BE RELOCATED
EXIST. BUS STOP TO BE RELOCATED
DEMO EXIST. CONC. SLAB

+02.25
55.07' LT.
+87.18
50.09' LT.
+64.04
55.31' LT.
+79.60
50.24' LT.
+11.02
50.10' LT.
+65.88
50.10' LT.
+15.74
50.09' LT.

SURVEY CONTROL POINT
SET 5/8 IRC BFA TRAV
N: 1543257.86'
E: 589421.01'
EL: 75.69'

SURVEY CONTROL POINT
SET 5/8 IRC BFA TRAV
N: 1543577.12'
E: 589439.976'
EL: 78.57'

MATCHLINE STA. - 153+60.00

CONST. 125 LF 18" RCP @ 0.52%
END PED. FENCE
+89.70
2.84' RT.
S 03
STA 154+18.54 (1.16' RT.)
CONST. INDEX NO. 425-022
- CURB INLET TYPE 7
N INV. 70.50'
S INV. 70.29'
+38.49
41.81' LT.
S 04
STA 155+25.87 (0.42' RT.)
CONST. INDEX NO. 425-022
- CURB INLET TYPE 7
S INV. 71.50'
8'
7.5'
154
155
156
157
158
159
S 03
S 04
ES 09
ES 10
ES 08-1
ES 09-1
℄CONST. ALAFAYA TRAIL
PT STA. 158+11.00
N 00° 06' 17" W

CONST. 107 LF 18" RCP @ 0.93%
CONST. 4" CONC. SLAB FOR PROPOSED BUS STOP
+70.00
73.66' RT.
+74.96
66.85' RT.
BEGIN PED. FENCE
+74.75
79.09' RT.
END PED. FENCE
+92.46
81.12' RT.
+12.71
79.82' RT.
+76.47
68.77' RT.
BEGIN PED. FENCE
+01.08

EXISTING O.E 120/240V CONDUCTOR TO REMAIN

EXISTING O.E 7.2kV DISTRIBUTION TO BE REMOVED

EXIST. BUS BENCH TO BE RELOCATED
EXIST. BUS STOP TO BE RELOCATED
DEMO EXIST. CONC. SLAB

EXIST. R/W

EOP

PROPOSED O.E 7.2kV DISTRIBUTION TO BE INSTALLED

ALAFAYA TRAIL

EXISTING TRAFFIC SEPARATOR TO REMAIN (TYP.)

CONST. 10' SIDEWALK

REMOVE EXISTING
5' CONC. SIDEWALK

+18.60
81.45' RT.
+54.55
78.55' RT.
+20.89
83.80' RT.
+37.77
79.35' RT.
+56.97
79.50' RT.
+22.18
83.50' RT.
S 05
14'

+50
EL 78.04'
R1760'
+67.85
90.77' RT.
+00
EL 78.11'
+72.48
90.84' RT.
+73.00
95.81' RT.
+74.51
105.64' RT.
+22.82
102.97' RT.
+18.50
91.44' RT.
+50
EL 78.29'
+00
EL 78.40'
R2010'
+38.71
101.84' RT.
+00
EL 78.64'
+00
EL 79.03'
+00
EL 79.93'
+50
EL 80.45'
+00
EL 81.17'
R2050'
+12.53
89.81' RT.
+68.35
95.74' RT.
+00
EL 77.87'
MATCH EXIST.
DEMO EXIST. CONCRETE AND RECONSTRUCT TO TIE IN GRADE (TYP.)
+37.74
126.84' RT.
END PED. FENCE
+69.94
71.50' RT.

EXISTING POLE AND APPURTENANCES TO BE REPLACED (846049)
STA. 154+52, 75' RT

EXISTING POLE AND APPURTENANCES TO BE REPLACED (5129562)
STA. 156+64, 80' RT

EXISTING B.E 12.47kV DISTRIBUTION TO REMAIN
*APPROX. LOCATION - PLEASE SURVEY FOR ACCURACY

+56.83
99.50' RT.
+50
EL 79.46'
LIMITS OF CONST.
PROP. EASEMENT

EXISTING POLE AND APPURTENANCES TO REMAIN (846051)
*APPROX LOCATION

S 05
STA 159+27.85 (80.90' RT.)
CONST. INDEX NO. 425-021
- CURB INLET TYPE 5
N INV. 75.26'
S INV. 75.26'

MATCHLINE STA. - 159+40.00

LEGEND:
4" CONC.
6" CONC.
TYPE P1 PED. FENCE PER FDOT INDEX D550-804
CONC. DEMO

*EASEMENT LINE FOR CONSTRUCTION AND MAINTENANCE OF STATE ROAD FOR PUBLIC ROAD RIGHT-OF-WAY PER OFFICIAL RECORD BOOK 4069, PAGE 2059. ALSO SHOWN AS A R/W LINE DEPICTED ON FDOT R/W MAP STATE ROAD 434/ALAFAYA TRAIL ORANGE COUNTY, FLORIDA SECTION 75037-2501 SHEETS 1-16, DATED 12-22-87.

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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AVCON
AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com
ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT
FLORIDA

ROADWAY PLAN - ALAFAYA TRAIL

SHEET NO. 46

FERRER, JOSE 6/8/2021 6:48:59 PM

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*EASEMENT LINE FOR CONSTRUCTION AND MAINTENANCE OF STATE ROAD FOR PUBLIC ROAD RIGHT-OF-WAY PER OFFI... ALSO SHOWN AS A R/W LINE ... TRAIL ORANGE COUNTY, FLORID...

Apparent Transmission, please consult with: DEFtransmissionGOV@duke-energy.com

REMOVE CONFLICTING TREES (TYP.) ...OR TREE REMOVAL DETAILS

EXISTING POLE AND APPURTENANCES TO REMAIN (A69862) *APPROX. LOCATION

...ED. FENCE +54.33 44.37' LT.

EXISTING POLE AND APPURTENANCES TO REMAIN (846024) STA. 160+10, 49' LT

EXISTING SIDEWALK TO REMAIN (TYP.)

COLLEGIATE WAY

END PED. FENCE +54.27 44.43' LT.

EXISTING POLE AND APPURTENANCES TO REMAIN (5129521) *APPROX. LOCATION

161+19.70 50.09' LT.

5.1'

EOP

R/W

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

MATCHLINE STA. - 159+40.00

℄CONST. ALAFAYA TRAIL

160 161 162 163 164 165

N 00° 06' 17" W

EXISTING TRAFFIC SEPARATOR TO REMAIN (TYP.)

ALAFAYA TRAIL

EXISTING O.E 120/240V CONDUCTOR TO REMAIN

EXIST. R/W

REMOVE EXISTING 5' CONC. SIDEWALK

EOP

ES 11

159+50.08 95.23 RT.

159+74.90 91.91 RT.

+50 EL 81.94'

159+49.76 105.23 RT.

+00 EL 82.64'

+50

EXISTING POLE AND APPURTENANCES TO REMAIN (5129528) STA. 160+78, 63' RT

CONST. 10' SIDEWALK (TYP.)

+00 EL 83.92'

LIMITS OF CONST.

CONST. 4" C...

13.8'

5'

END PED. FENCE 162+09.14 96.53' RT.

+50 EL 84.57'

PROP. EASEMENT

BEGIN PED. FENCE 162+14.14 96.55' RT.

+00 EL 85.28'

END PED. FENCE 162+49.11 96.73' RT.

162+43.14 89.43' RT.

162+49.13 91.46' RT.

EXISTING POLE AND APPURTENANCES TO REMAIN (8541921) *APPROX. LOCATION

162+54.11 96.76' RT.

+50 EL 85.99'

END PED. FENCE 29+00.46 72.74 RT.

EXISTING B.E 120/240V CONDUCTOR TO REMAIN *APPROX. LOCATION

...62+94.55 ...2.04' LT.

R47'

162+91.10 74.15' LT.

162+96.06 65.72' LT.

EXISTING POLE AND APPURTENANCES TO REMAIN (6479860) *APPROX. LOCATION

162+76.49 48.62' LT.

162+52.87 50.08' LT.

162+38.63 50.09' LT.

162+67.92 52.78' LT.

R50'

BM811

SURVEY CONTROL POINT FND OC DISK L-10320003 N: 1549961.195' E: 589437.162' EL: 85.88'

29+58.84 118.82' RT. ELEV. 85.53' (MATCH EXIST.)

162+69.57 40.24' LT.

162+80.12 40.45' LT.

CR-A

R/W

℄CONST. UNIVERSITY BLVD

163+04.62 89.65' LT. ELEV. 84.96' (MATCH EXIST.)

EXISTING POLE AND APPURTENANCES TO REMAIN (8586088) STA. 164+25, 109' LT

163+04.69 72.90' LT.

163+04.72 65.57' LT.

EASTERLY BLVD

163+01.07 52.43' LT.

R25'

162+93.32 44.47' LT. ELEV. 85.73'

162+90.15 42.69' LT.

CR-A

162+71.42 82.38' RT.

162+70.99 82.38' RT. ELEV. 85.59' (MATCH EXIST.)

162+74.65 91.97' RT.

162+59.71 106.78' RT.

162+54.17 84.39' RT.

EXISTING POLE AND APPURTENANCES TO REMAIN (3206350) STA. 162+66, 92' RT

84.49' RT.

CR-A

162+96.17 82.38' RT.

162+78.46 90.38' RT.

162+78.45 94.92' RT.

R100'

162+84.46 90.39' RT.

162+90.40 111.36' RT.

163+00.69 101.70' RT.

163+06.32 99.46' RT.

163+12.54 121.65' RT.

163+18.85 100.39' RT.

R2'

CR-F

163+21.04 102.86' RT.

163+32.24 161.89' RT.

163+24.71 121.33' RT. ELEV. 84.

(MATCH E...

PC STA. 163+05.47

162+86.07 89.00' RT.

162+91.42 82.38' RT. ELEV. 85.72'

CURVE DATA Alafaya Trail (3)
PI STA. = 163+72.14
DELTA = 1° 20' 01"
D = 1° 00' 01"
T = 66.67
L = 133.34
R = 5728.67

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

PT STA. 164+38.81

N 01° 13' 44" E

R/W

EXISTING POLE AND APPURTENANCES TO REMAIN (8700177) *APPROX. LOCATION

0 10 40

Apparent Transmission, please consult with: DEFtransmissionGOV @duke-energy.com

28+77.86 55.02 LT.

END PED. FENCE 28+82.19 50.51 LT.

164+08.10 96.89' LT. ELEV. 85.18' (MATCH EXIST.)

...54+10.77 ...6.88' LT.

164+15.17 97.28' LT.

R45'

164+10.81 75.40' LT.

164+09.56 69.30' LT. ELEV. 85.65'

CR-A

164+18.93 57.54' LT.

R25'

164+28.21 52.22' LT.

164+35.57 51.11' LT.

CR-A

STA. 163+73.15 ℄ Alafaya Trail = STA. 29+99.97 ℄ University Blvd

164

64.57' LT.

164+34.96

EXISTING O.E 120/240V CONDUCTOR TO REMAIN

59.17' LT.

BEGIN PED. FENCE 164+55.63 56.61' LT.

5.3'

164+64.06 61.36' LT.

164+55.60 51.20' LT. ELEV. 85.92' (MATCH EXIST.)

EXISTING POLE AND APPURTENANCES TO REMAIN (8541920) *APPROX. LOCATION

164+47.70 51.16' LT.

R35'

164+50.61 71.40' RT.

164+55.02 70.93' RT. ELEV. 86.08' (MATCH EXIST.)

R15'

BEGIN PED. FENCE 164+69.64 83.92' RT.

164+70.47 9.97' RT.

13.2'

164+35.71 77.69' RT.

164+33.43 79.47' RT.

164+30.99 81.85' RT. ELEV. 86.00'

164+28.45 85.19' RT.

R25'

CR-A

+00 EL 86.47'

164+63.28 93.95' RT.

164+59.25 99.92' RT.

EXISTING POLE AND APPURTENANCES TO BE MODIFIED (5131194) STA. 165+5, 79' RT

103.86' RT.

UNIVERSITY BLVD

*EXIST. EASEMENT-R/W

PROPOSED O.E 0V SPAN GUY WIRE TO BE INSTALLED

164+44.44 83.88' RT.

164+39.03 84.00' RT.

164+33.47 92.73' RT.

...40.96

...2.41' RT.

PROPOSED POLE AND APPURTENANCES TO BE INSTALLED (SPAN GUY) STA. 165+18, 102' RT

MATCHLINE STA. - 165+00.00

LEGEND:

4" CONC. | 6" CONC. | TYPE P1 PED. FENCE PER FDOT INDEX D550-804 | CONC. DEMO

THE OFFICIAL RECORD OF THIS SHEET IS THE ELECTRONIC FILE SIGNED AND SEALED UNDER RULE 61G...A.C.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
----	----		

AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - ALAFAYA TRAIL

SHEET NO. 47

FERRER, JOSE 6/8/2021 6:49:47 PM

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MATCHLINE STA. - 165+20.00

MATCHLINE STA. - 171+00.00

0 10 40
Feet

EXISTING POLE AND APPURTENANCES TO REMAIN (5131191) STA. 165+74, 61' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (5131192) STA. 167+22, 61' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (846056) STA. 169+29, 61' LT

EXISTING POLE AND APPURTENANCES TO BE REPLACED (8092291) STA. 170+23, 73' LT

EXISTING POLE AND APPURTENANCES TO BE REPLACED (5131188) STA. 170+23, 62' LT

EXISTING SIDEWALK TO REMAIN (T

EXISTING O.E 120/240V CONDUCTOR TO REMAIN

R/W

SURVEY CONTROL POINT
SIRC 5/8 TRAVERSE NO
N: 1550315.114'
E: 589431.669'
EL: 85.49'

5.3'

EOP

R/W

+24.49
61.42' LT.

END PED. FENCE
+40.78
56.43' LT.

PLAZA ON UNIVERSITY DRIVEWAY

+25.19
61.46' LT.

EXIST. TYPE E CURB & GUTTER TO REMAIN

166 167 168 169 170

℄CONST. ALAFAYA TRAIL

N 01° 13' 44" E

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

EXISTING O.E 12.47kV DISTRIBUTION TO BE REPLACED

ALAFAYA TRAIL

EXIST. R/W

REMOVE EXISTING 5' CONC. SIDEWALK

+39.02
79.91' RT.

+41.10
83.07' RT.

EOP

ES 12

CONST. 10' SIDEWALK

+39.02
71.91' RT.

ES 13

+29.12
77.83' RT.

15'

+50
EL 86.06'

+00
EL 85.64'

+50
EL 85.26'

+00
EL 85.14'

+50
EL 85.05'

+00
EL 84.96'

+50
EL 84.88'

+00
EL 84.74'

+50
EL 84.58'

+00
EL 84.44'

+00
EL 84.10'

+50
EL 84.30'

PROP. EASEMENT

+41.21
93.07' RT.

+29.26
87.83' RT.

LIMITS OF CONST.

EASEMENT-R/W

EXISTING POLE AND APPURTENANCES TO REMAIN (845193) STA. 166+22, 79' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (845187) STA. 168+18, 73' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (8559654) STA. 168+53, 76' RT

EXISTING POLE AND APPURTENANCES TO BE MODIFIED (5131190) STA. 170+25, 72' RT

LEGEND:

4" CONC. 6" CONC. TYPE P1 PED. FENCE PER FDOT INDEX D550-804

*EASEMENT LINE FOR CONSTRUCTION AND MAINTENANCE OF STATE ROAD FOR PUBLIC ROAD RIGHT-OF-WAY PER OFFICIAL RECORD BOOK 4069, PAGE 2059. ALSO SHOWN AS A R/W LINE DEPICTED ON FDOT R/W MAP STATE ROAD 434/ALAFAYA TRAIL ORANGE COUNTY, FLORIDA SECTION 75037-2501 SHEETS 1-16, DATED 12-22-87.

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

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
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5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - ALAFAYA TRAIL

SHEET NO. 48

FERRER, JOSE 6/8/2021 6:50:19 PM

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EXISTING POLE AND APPURTENANCES TO REMAIN (5131186) STA. 171+35, 61' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (5131181) STA. 172+91, 56' LT

EXISTING O.E 120/240V CONDUCTOR TO REMAIN

EXISTING POLE AND APPURTENANCES TO REMAIN (8544104) *APPROX. LOCATION

EXISTING POLE AND APPURTENANCES TO REMAIN (846072) STA. 175+7, 50' LT

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

EXISTING POLE AND APPURTENANCES TO REMAIN (5131183) STA. 172+42, 72' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (5131184) STA. 173+99, 73' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (262741) STA. 175+88, 72' RT

MATCHLINE STA. 171+00.00

MATCHLINE STA. 176+80.00

N

0 10 40 Feet

BEGIN PED. FENCE +51.34 56.58' LT.

+30.29 61.45' LT.

+28.90 56.50' LT.

END PED. FENCE +79.87 52.14' LT.

+01.82 57.36' LT.

R/W

+62.00 50.05' LT.

EXIST. BUS STOP TO REMAIN

EXISTING SIDEWALK TO REMAIN (TYP.)

BEGIN PED. FENCE +69.19 45.05' LT.

R/W

STRATEGY BLVD

SURVEY CONTROL POINT
SET 5/8 IRC BFA TRAV
N: 1551[illegible].644'
E: 58945.834
EL: 82.63'

EOP

14'

5.1'

+81.87 65.86' RT.

+87.36 66.40' RT.

+87.32 69.83' RT.

R1.5'

R2'

+80.37 64.34' RT. MATCH EXIST.

+89.63 64.44' RT.

+70.90 71.10' RT.

R2'

N 01° 13' 44" E

CONST. ALAFAYA TRAIL

8.2'

171

172

173

174

175

176

+81.77 74.17' RT.

R58'

+00.16 66.87' RT.

R31'

+05.02 62.34' RT.

+04.22 68.73' RT.

R1.5'

+03.53 71.55' RT.

CONST. VALLEY GUTTER (TYP.)

+70.25 65.67' RT.

+64.89 71.23' RT.

+64.10 68.44' RT.

+63.13 62.31' RT.

+72.88 67.60' RT.

+78.42 64.59' RT. MATCH EXIST.

+72.85 69.13' RT.

+78.26 75.03' RT.

R5'

+83.37 80.11' RT.

ALAFAYA TRAIL

BEGIN PED. FENCE +95.79 79.84' RT.

+05.78 79.63' RT.

+24.76 77.40' RT.

+45.69 75.14' RT.

EXISTING TRAFFIC SEPARATOR TO REMAIN

REMOVE EXISTING TREES

REMOVE EXISTING 5' CONC. SIDEWALK

EXIST. R/W

CR-E

CR-F

ES 14

ES 14-1

S 06

ES 15

CONST. 10' SIDEWALK (TYP.)

+20.18 77.07' RT.

+40.10 78.88' RT.

+65.35 78.64' RT.

+00.26 75.26' RT.

R90'

EOP

13.1'

12.6'

+74.17 77.13' RT.

+80.11 76.11' RT.

R2'

R110'

+50 EL 83.90'

+00 EL 83.72'

+00.36 85.26' RT.

+04.47 90.84' RT.

+04.55 94.51' RT.

+18.28 86.89' RT.

+50 EL 83.61'

+66.24 88.63' RT.

+89.37 71.85' RT.

+05.06 79.74' RT.

+07.36 81.02' RT.

+12.91 81.85' RT.

MATCH EXIST.

R1.5'

R2'

MATCH EXIST.

+18.49 84.94' RT.

+16.28 80.38' RT.

+15.09 88.24' RT.

UCF HOTEL ACCESS RD

R2'

R20'

+53.67 78.98' RT.

PROP. EASEMENT

+70.24 85.33' RT.

+81.59 90.15' RT.

R15'

R110'

+06.00 89.63' RT.

+00 EL 83.07'

+50 EL 82.90'

+45.73 85.19' RT.

+00 EL 82.80'

*EASEMENT-R/W

+50 EL 82.67'

LIMITS OF CONST.

+00 EL 82.56'

+50 EL 82.60'

S 06
STA 176+28.75 (63.45' RT.)
CONST. INDEX NO. 425-021
- CURB INLET TYPE 6 WITH RECTANGULAR STRUCTURE

PINE 6"

PINE 4"

PINE 8"

PINE 6"

LEGEND:

4" CONC.

6" CONC.

TYPE P1 PED. FENCE PER FDOT INDEX D550-804

UCF HOTEL

*EASEMENT LINE FOR CONSTRUCTION AND MAINTENANCE OF STATE ROAD FOR PUBLIC ROAD RIGHT-OF-WAY PER OFFICIAL RECORD BOOK 4069, PAGE 2059. ALSO SHOWN AS A R/W LINE DEPICTED ON FDOT R/W MAP STATE ROAD 434/ALAFAYA TRAIL ORANGE COUNTY, FLORIDA SECTION 75037-2501 SHEETS 1-16, DATED 12-22-87.

REMOVE CONFLICTING TREES (TYP.)
SEE SHEET L-24 FOR TREE REMOVAL DETAILS

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

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
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AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - ALAFAYA TRAIL

SHEET NO. 49

FERRER, JOSE 6/8/2021 6:50:49 PM

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REMOVE CONFLICTING TREES (TYP.)
SEE SHEET L-24 FOR TREE REMOVAL DETAILS

N

0 10 40
Feet

MATCHLINE STA. - 176+80.00

MATCHLINE STA. - 182+60.00

EXISTING POLE AND APPURTENANCES TO REMAIN (846060) STA. 177, 50' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (5131196) STA. 178+60, 50' LT

EXISTING O.E 0V SPAN GUY WIRE TO REMAIN

EXISTING POLE AND APPURTENANCES TO REMAIN (5131205) STA. 181+3, 50' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (846062) STA. 182+56, 49' LT

EXISTING SIDEWALK TO REMAIN (TYP.)

EXISTING O.E 120/240V CONDUCTOR TO REMAIN

EXISTING O.E 120/240V CONDUCTOR TO REMAIN

SIEMENS DRIVEWAY

R/W

+06.40
45.07' LT.

+01.43
42.00' LT.

5.2'

+49.43
50.09' LT.

+84.43
70.09' LT.

+63.23
70.09' LT.

+98.63
49.86' LT.

BEGIN PED. FENCE
+83.59
45.09' LT.

5.3'

SURVEY CONTROL POINT
SET 5/8 IRF BFA TRAV
N: 1551639.754'
E: 589471.619
EL: 83.20'

END PED. FENCE
+49.86
44.99' LT.

CONST. 4" CONC. SLAB FOR PROPOSED BUS STOP

℄CONST. ALAFAYA TRAIL

177 178 179 180 181 182

N 01° 13' 44" E

ALAFAYA TRAIL

EXISTING TRAFFIC SEPARATOR TO REMAIN (TYP.)

CONST. 10' CONC. SIDEWALK (TYP.)

REMOVE EXISTING TREES

REMOVE EXISTING 5' CONC. SIDEWALK

END PED. FENCE
+24.24
74.21' RT.

12.2'

+57.80
71.91' RT.

+59.05
74.14' RT.

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

+78.50
RT.

+81.84
71.66' RT

R44'

+60.48
62.49' RT.

ES 15-1

CR-A

R28'

R35'

+92.17
87.46' RT.

DEMO. EXIST. CONCRETE (TYP.)

+92.16
100.94' RT.

+84.30
97.84' RT.

+65.17
71.63' RT.

+69.13
73.00' RT.

+69.84
84.12' RT.

+80.18
81.50' RT.

+78.44
92.08' RT.

+82.30
84.89' RT.

+84.72
116.04' RT.

*EASEMENT-R/W

CENTAURUS BLVD

+74.31
68.50' RT.

R27.5'

R53'

+92.14
62.51' RT.

+93.14
70.94' RT.

+94.94
71.92' RT.

BEGIN PED. FENCE
+98.16
71.58' RT. +00
EL 83.51'

+44.86
64.17' RT.

R29'

+70.48
71.45' RT.

R33.5'

+87.18
71.64' RT.

+60.46
87.53' RT.

+88.81
80.46' RT.

+60.64
100.10' RT.

+83.34
72.76' RT.

+72.39
81.41' RT.

+75.74
91.94' RT.

+70.29
84.82' RT.

+68.80
114.08' RT.

+68.45
99.03' RT.

EXIST. R/W

EXIST. BUS BENCH TO BE RELOCATED

+89.86
64.26' RT.

+84.85
71.25' RT.

+78.86
69.24' RT.

EXIST. BUS STOP TO BE RELOCATED DEMO EXIST. CONC. SLAB

+12.69
64.26' RT.

14'

5'

+00
EL 83.37'

+50
EL 83.27'

REMOVE EXIST. 5' CONC. SIDEWALK

BEGIN PED. FENCE
+89.85
76.12' RT.

END PED. FENCE
+84.85
76.12' RT.

PROP. BUS BENCH

BEGIN PED. FENCE
+49.86
76.12' RT.

+00
EL 82.65'

+50
EL 82.80'

+00
EL 82.96'

+00
EL 83.31'

+50
EL 83.13'

+50
EL 83.43'

+59.05

+50
EL 83.50'
END PED. FENCE

PROP. EASEMENT

LIMITS OF CONST.

EXISTING POLE AND APPURTENANCES TO REMAIN (845190) STA. 178+3, 72' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (5131199) STA. 179+30, 72' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (5131200) STA. 181+41, 72' RT

LEGEND:

4" CONC. | 6" CONC. | TYPE P1 PED. FENCE PER FDOT INDEX D550-804 | CONC. DEMO

*EASEMENT LINE FOR CONSTRUCTION AND MAINTENANCE OF STATE ROAD FOR PUBLIC ROAD RIGHT-OF-WAY PER OFFICIAL RECORD BOOK 4069, PAGE 2059. ALSO SHOWN AS A R/W LINE DEPICTED ON FDOT R/W MAP STATE ROAD 434/ALAFAYA TRAIL ORANGE COUNTY, FLORIDA SECTION 75037-2501 SHEETS 1-16, DATED 12-22-87.

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

REVISIONS

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AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - ALAFAYA TRAIL

SHEET NO. 50

FERRER, JOSE 6/8/2021 6:51:16 PM

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MATCHLINE STA. - 182+60.00

MATCHLINE STA. - 188+40.00

N

0 10 40
Feet

EXISTING O.E 120/240V CONDUCTOR TO REMAIN

EXISTING POLE AND APPURTENANCES TO REMAIN (846064) STA. 184+35, 50' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (846076) STA. 186+27, 49' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (846075) STA. 188+8, 50' LT

SURVEY CONTROL POINT
ND OC DISK "C 803 010"
N: 1352160.686'
E: 589481.988'
EL: 82.78'

BM806

EXISTING SIDEWALK TO REMAIN

+68.92
50.08' LT.

R/W

5.1'

EOP

℄CONST. ALAFAYA TRAIL

BEGIN PED. FENCE
+01.05
12.66' RT.

183 184 185 186 187 188

N 01° 13' 44" E

14.4'

13.4'

EXISTING POLE AND APPURTENANCES TO REMAIN (8142553) STA. 185+20, 72' RT

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

EXISTING POLE AND APPURTENANCES TO REMAIN (5131203) STA. 187+14, 72' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (8382460) STA. 182+96, 72' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (5131201) STA. 183+45, 72' RT

+72.97
68.12' RT.

REMOVE EXISTING 5' CONC. SIDEWALK

ALAFAYA TRAIL

EXISTING TYPE E CURB & GUTTER TO REMAIN

EXIST. R/W

+98.79
76.11' RT.

+92.09
68.12' RT.

+95.42
72.12' RT.

+17.87
76.11' RT.

EOP

R/W

+98.84
86.11' RT.

76.12' RT.

EOP

ES 16

ES 17

14'

5.9'

13.8'

+26.36
78.12' RT.

R75'

+50
EL 82.68'

+00
EL 82.55'

+50
EL 82.41'

+50
EL 82.12'

+00
EL 81.98'

+00
EL 83.18'

R75'

R55'

R50'

R50'

R55'

+00
EL 82.75'

PROP. EASEMENT

+00
EL 82.26'

+44.64
12' RT.

+73.49
80.55' RT.

+94.64
76.12' RT.

+06.46
76.12' RT.

+16.41
77.12' RT.

+72.97
78.12' RT.

+91.97
81.50' RT.

+17.87
86.11' RT.

*EASEMENT-R/W

CONST. 10' CONC. SIDEWALK (TYP.)

LIMITS OF CONST.

+00.76
101.02' RT.

+50
EL 83.07'

+50
EL 82.74'

+00.68
90.02' RT.

EXISTING B.E 7.2kV DISTRIBUTION TO REMAIN

EXISTING B.E 12.47kV DISTRIBUTION TO REMAIN

LEGEND:

4" CONC. 6" CONC. TYPE P1 PED. FENCE PER FDOT INDEX D550-804

*EASEMENT LINE FOR CONSTRUCTION AND MAINTENANCE OF STATE ROAD FOR PUBLIC ROAD RIGHT-OF-WAY PER OFFICIAL RECORD BOOK 4069, PAGE 2059. ALSO SHOWN AS A R/W LINE DEPICTED ON FDOT R/W MAP STATE ROAD 434/ALAFAYA TRAIL ORANGE COUNTY, FLORIDA SECTION 75037-2501 SHEETS 1-16, DATED 12-22-87.

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

REVISIONS			
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AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - ALAFAYA TRAIL

SHEET NO. 51

FERRER, JOSE 6/8/2021 6:51:35 PM

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REMOVE CONFLICTING TREES (TYP.)
SEE SHEET L-24 FOR TREE REMOVAL DETAILS

N

0 10 40
Feet

EXISTING POLE AND APPURTENANCES TO REMAIN (846074) STA. 190+4, 51' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (846071) STA. 191+99, 51' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (7264364) STA. 192+82, 51' LT

EXISTING B.E 12.47kV DISTRIBUTION TO REMAIN *APPROX. LOCATION

EXISTING O.E 120/240V CONDUCTOR TO REMAIN

EXISTING SIDEWALK TO REMAIN (TYP.)

℄

+39.92 50.04' LT.

+19.85 53.07' LT.

+19.85 50.07' LT.

+84.35 53.50' LT.

R/W

OHU

EOP

5'

MATCH STA. - 188+40.00

MATCH STA. - 194+20.00

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

PI STA. 190+38.86

℄CONST. ALAFAYA TRAIL

EXISTING TYPE E CURB & GUTTER TO REMAIN

13.9'

189 190 191 192 193 194

N 01° 13' 44" E

N 00° 37' 41" E

EXISTING POLE AND APPURTENANCES TO REMAIN (5131204) STA. 189+13, 71' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (8142552) STA. 189+24, 73' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (8142551) STA. 190+19, 73' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (5131222) STA. 191+5, 72' RT

EXISTING POLE AND APPURTENANCES TO BE MODIFIED (5131220) STA. 192+81, 73' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (8142549) STA. 193+75, 73' RT

+53.67 71.92' RT.

EXIST. R/W

EOP

ES 18

+48.30 74.33' RT.

+98.69 80.60' RT.

REMOVE EXISTING TREES

CONST. 10' SIDEWALK

+19.26 76.80' RT.

14.9'

+06.27 77.25' RT.

ES 19

ALAFAYA TRAIL

REMOVE EXISTING TREES

REMOVE EXISTING TREES (TYP.)

+80.11 77.40' RT.

REMOVE EXISTING 5' CONC. SIDEWALK

ES 20

19.5'

EXISTING POLE AND APPURTENANCES TO REMAIN (8142554) STA. 188+80, 75' RT

+00 EL 81.72'

+50 EL 81.44'

+48.88 84.36' RT.

+00 EL 81.28'

REMOVE EXISTING TREE

+50 EL 81.14'

EL 80.99'

+00

+06.23 87.25' RT.

+50 EL 80.84'

+00 EL 80.67'

+50 EL 80.47'

+00 EL 80.22'

+50

+00 EL 79.80'

PROPOSED O.E 0V SPAN GUY WIRE TO BE INSTALLED

LIMITS OF CONST.

+53.67 100.63' RT.

+99.08 90.63' RT.

BEGIN GRAV. WALL & PED RAILING

+18.95 86.80' RT.

REMOVE EXISTING TREE

SURFACE WATERS

EXISTING POLE AND APPURTENANCES TO REMAIN (8142550) STA. 192+5, 72' RT

PROPOSED POLE AND APPURTENANCES TO BE INSTALLED (SPAN GUY) STA. 192+81, 96' RT

EXISTING B.E 12.47kV DISTRIBUTION TO REMAIN *APPROX. LOCATION - PLEASE SURVEY/GPR TO CONFIRM CONFLICT WITH PROPOSED GRAVITY WALL FOOTER. RECOMMEND MODIFYING FOOTER TO ACCOMMODATE CABLE TO MITIGATE CONFLICT

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN *PLEASE MAINTAIN APPROPRIATE OSHA RECOMMENDED CLEARANCES DURING TREE REMOVAL. OTHERWISE, DE-ENERGIZATION MAY BE REQUIRED

*EASEMENT-R/W

LEGEND:

4" CONC.

E P1 PED. F
T INDEX D5

ALUMINUM PED. RAILING PER FDOT INDEX 515-062 + GRAVITY WALL PER FDOT INDEX 400-011

*EASEMENT LINE FOR CONSTRUCTION AND MAINTENANCE OF STATE ROAD FOR PUBLIC ROAD RIGHT-OF-WAY PER OFFICIAL RECORD BOOK 4069, PAGE 2059. ALSO SHOWN AS A R/W LINE DEPICTED ON FDOT R/W MAP STATE ROAD 434/ALAFAYA TRAIL ORANGE COUNTY, FLORIDA SECTION 75037-2501 SHEETS 1-16, DATED 12-22-87.

EASEMENT-R/W LIMITS EXTEND EAST BEYOND SHEET

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

REVISIONS

DATE	DESCRIPTION	DATE
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AVCON, INC.
IGAN STREET, SUITE 200
D, FLORIDA 32822-2779
NE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - ALAFAYA TRAIL

SHEET NO. 52

FERRER, JOSE 6/8/2021 6:51:50 PM

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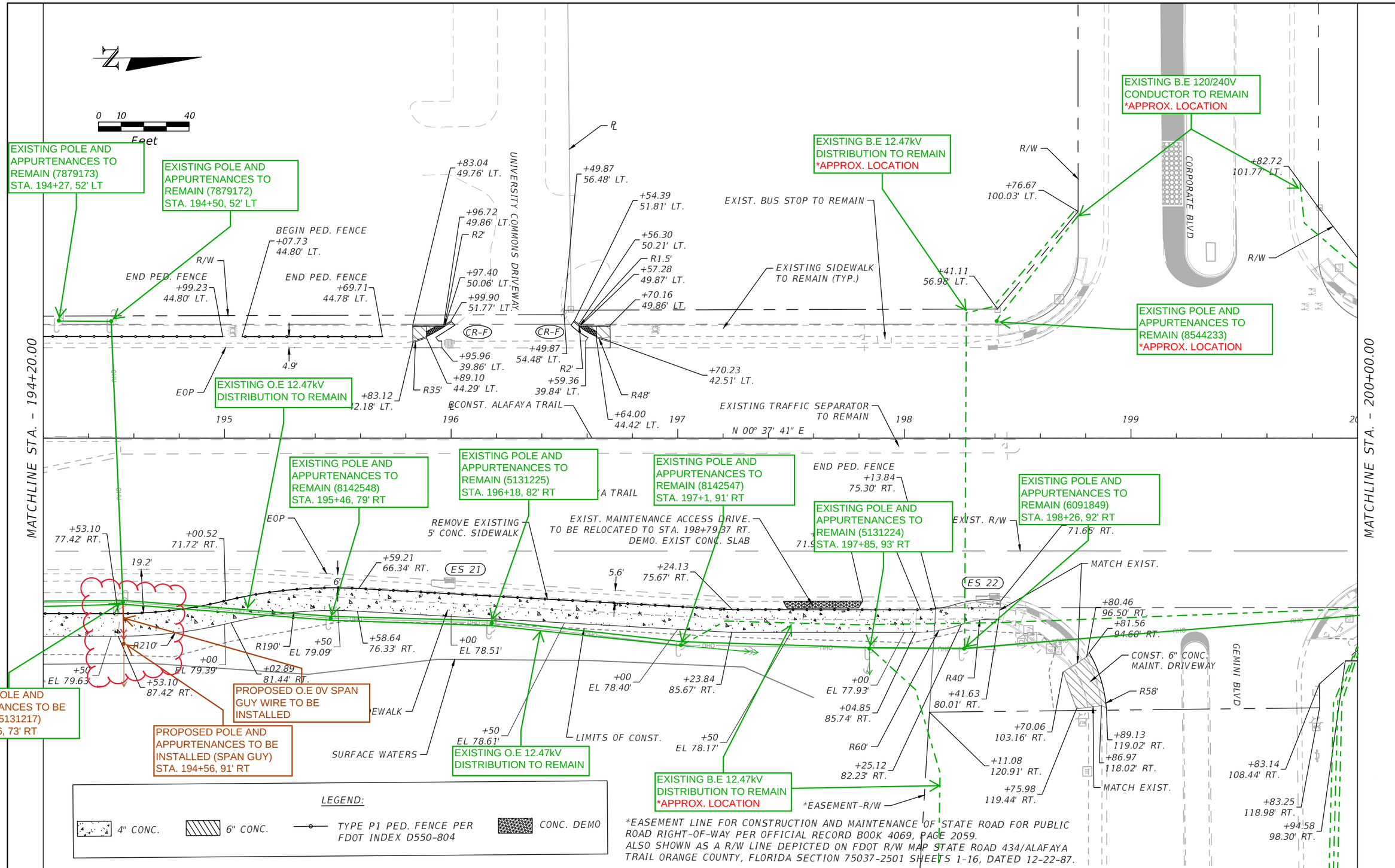

*EASEMENT LINE FOR CONSTRUCTION AND MAINTENANCE OF STATE ROAD FOR PUBLIC ROAD RIGHT-OF-WAY PER OFFICIAL RECORD BOOK 4069, PAGE 2059. ALSO SHOWN AS A R/W LINE DEPICTED ON FDOT R/W MAP STATE ROAD 434/ALAFAYA TRAIL ORANGE COUNTY, FLORIDA SECTION 75037-2501 SHEETS 1-16, DATED 12-22-87.

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REVISIONS			
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AVCON

AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - ALAFAYA TRAIL

SHEET NO. 53

FERRER, JOSE 6/8/2021 6:52:19 PM T:\2019\2019.0080.01 - UCF-Alafaya Safety\CAD\Roadway\PLANRD01.dwg

EXISTING B.E 120/240V CONDUCTOR TO REMAIN *APPROX. LOCATION

EXISTING POLE AND APPURTENANCES TO REMAIN (8544233) *APPROX. LOCATION

EXISTING POLE AND APPURTENANCES TO REMAIN (8544235) *APPROX. LOCATION - PLEASE SURVEY TO CONFIRM CONFLICT WITH PROPOSED SIDEWALK

EXISTING B.E 7.2kV DISTRIBUTION TO REMAIN *APPROX. LOCATION

EXISTING B.E 120/240V DISTRIBUTION TO BE ABANDONED AND PLACED OUT OF SERVICE *IF PEDESTAL NEEDS RELOCATED

EXISTING PEDESTAL AND APPURTENANCES TO BE REMOVED (8548249) *APPROX. LOCATION - PLEASE SURVEY TO CONFIRM CONFLICT WITH PROPOSED TRAIL

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

EXISTING POLE AND APPURTENANCES TO BE MODIFIED (B126411) STA. 200+68, 72' RT

EXISTING O.E 12.47kV DISTRIBUTION TO BE REMOVED

EXISTING B.E 12.47kV DISTRIBUTION TO REMAIN *APPROX. LOCATION

PROPOSED POLE AND APPURTENANCES TO BE INSTALLED (RA POLE) STA. 201+24, 72' RT

PROPOSED O.E 12.47kV DISTRIBUTION TO BE INSTALLED

EXISTING POLE AND APPURTENANCES TO BE MODIFIED (5131230) STA. 200+68, 91' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (B126403) STA. 201+45, 70' RT

PROPOSED POLE AND APPURTENANCES TO BE INSTALLED (RA POLE) STA. 201+24, 91' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (5131233) STA. 202+50, 71' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (8142546) STA. 202+29, 73' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (8142545) STA. 203+65, 69' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (5131236) STA. 204+59, 68' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (8142544) STA. 205+57, 65' RT

EXISTING SIDEWALK TO REMAIN (TYP.)

BEGIN PED. FENCE +11.38 64.99' LT.

BEGIN PED. FENCE +25.55 56.89' LT.

END PED. FENCE +61.91 56.48' LT.

+48.42 64.99' LT.

+45.47 57.16' LT.

STARBUCKS DRIVEWAY

BEGIN PED. FENCE +01.06 54.41' LT.

R/W

END PED. FENCE +19.70 47.95' LT.

+58.48 53.92' LT.

BEGIN PED. FENCE +17.64 47.23' LT.

+48.85 55.44' LT.

+48.83 56.44' LT.

+03.37 57.70' LT.

END PED. FENCE +02.81 49.01' LT.

BEGIN PED. FENCE +10.28 49.17' LT.

5'

EXISTING TYPE E CURB & GUTTER TO REMAIN

EOP

201 202 203 204 205

N 00° 37' 41" E

T. 4" CONC. SLAB EXTENSION +49.97 59.94' RT. +19.57 60.88' RT. +49.99 70.34' RT. +46.32 68.29' RT.

BEGIN PED. FEN +54.99 72.53' RT.

EXIST. BUS BENCH TO BE RELOCATED

+94.97 59.89' RT. BEGIN PED. FENCE +95.00 75.68' RT.

+24.24 77.16' RT. +14.24 76.22' RT. +12.42 73.03' RT. +04.31 75.28' RT.

+47.24 77.00' RT.

REMOVE EXISTING 5' CONC. SIDEWALK

ALAFAYA TRAIL

+61.42 75.89' RT.

EXIST. R/W

+75.46 74.78' RT.

*EASEMENT-R/W

+28.76 73.06' RT.

ES 23

ES 24

19.6'

17.1'

+06.55 67.27' RT.

+50 EL 77.26'

CONST. 10' SIDEWALK

+00 EL 77.47'

END PED. FENCE +90.00 75.69' RT.

+80.84 70.96' RT.

+23.14 73.03' RT.

+20.00 67.37' RT.

+50 EL 77.61'

+41.08 76.81' RT.

R50'

R40'

+00 EL 76.70'

+75.54 84.78' RT.

R110'

+50 EL 76.51'

+00 EL 76.33'

+28.96 83.06' RT.

R2670'

+50 EL 76.09'

+00 EL 75.89'

+50 EL 75.64'

PROP. EASEMENT

LIMITS OF CONST.

LEGEND:

TYPE P1 PED. FENCE PER FDOT INDEX D550-804

CONC. DEMO

...OR CONSTRUCTION AND MAINTENANCE OF STATE ROAD FOR PUBLIC ...Y PER OFFICIAL RECORD BOOK 4069, PAGE 2059. ...R/W LINE DEPICTED ON FDOT R/W MAP STATE ROAD 434/ALAFAYA ...TY, FLORIDA SECTION 75037-2501 SHEETS 1-16, DATED 12-22-87.

0 10 40 Feet

MATCHLINE STA. - 205+80.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - ALAFAYA TRAIL

SHEET NO. 54

FERRER, JOSE 6/8/2021 6:52:46 PM

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MATCHLINE STA. - 205+80.00

MATCHLINE STA. - 211+60.00

N

0 10 40
Feet

EXISTING POLE AND APPURTENANCES TO REMAIN (B14135) STA. 210+64, 67' LT

EXIST. BUS BENCH TO BE RELOCATED

CONST. 4" CONC. SLAB EXTENSION

GOLDEN KNIGHT CIRCLE

+08.90 65.50' LT.

EXISTING SIDEWALK TO REMAIN (TYP.)

+15.68 68.23' LT.

BEGIN PED. FENCE +24.14 56.88' LT.

END PED. FENCE +41.29 52.33' LT.

R/W

+08.44 61.35' LT.

5.1'

+68.07 60.25' LT.

+79.24 52.82' LT.

+87.16 55.85' LT.

+86.93 64.94' LT.

EOP

4.9'

EXISTING O.E 0V SPAN GUY WIRE TO REMAIN

℄CONST. ALAFAYA TRAIL

BEGIN PED FENCE +13.34 0.16' LT.

END PED FENCE +46.13 3.45' LT.

ALAFAYA TRAIL

EXIST. TRAFFIC SEPARATOR TO REMAIN

9.4'

206 207 208 209 210 211

N 00° 37' 41" E

9.5'

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

+16.81 50.64' RT.

EXIST. BUS STOP TO BE REMOVED
DEMO EXIST. CONC. SLAB

REMOVE EXIST. 5' CONC. SIDEWALK

EXIST. R/W

EOP

ES 25

17.1'

+18.97 56.74' RT.

*EASEMENT-R/W

ES 26

+63.59 53.97' RT.

+65.86 57.04' RT.

EXISTING B.E 12.47kV DISTRIBUTION TO REMAIN *APPROX. LOCATION

17.5'

+50 EL 74.55'

+00 EL 74.30'

+50 EL 74.05'

+50 EL 73.40'

+50 EL 72.56'

+00 EL 72.97'

+00 EL 72.11'

+50 EL 71.62'

+50 EL 75.07'

+00 EL 74.80'

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

PROP. EASEMENT

+00 EL 73.78'

+65.63 67.05' RT.

CONST. 10' SIDEWALK

LIMITS OF CONS

EXISTING POLE AND APPURTENANCES TO REMAIN (8142541) STA. 211+17, 57' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (5131235) STA. 206+61, 63' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (8142543) STA. 207+80, 60' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (5131234) STA. 208+63, 58' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (8142542) STA. 209+58, 56' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (5131237) STA. 210+63, 54' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (8142540) STA. 211+34, 59' RT

LEGEND:

4" CONC. | 6" CONC. | TYPE P1 PED. FENCE PER FDOT INDEX D550-804 | CONC. DEMO

*EASEMENT LINE FOR CONSTRUCTION AND MAINTENANCE OF STATE ROAD FOR PUBLIC ROAD RIGHT-OF-WAY PER OFFICIAL RECORD BOOK 4069, PAGE 2059. ALSO SHOWN AS A R/W LINE DEPICTED ON FDOT R/W MAP STATE ROAD 434/ALAFAYA TRAIL ORANGE COUNTY, FLORIDA SECTION 75037-2501 SHEETS 1-16, DATED 12-22-87.

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

REVISIONS

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5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
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FAX:(407) 599-1133
www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - ALAFAYA TRAIL

SHEET NO. 55

FERRER, JOSE 6/8/2021 6:53:05 PM

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N

0 10 40
Feet

CURVE DATA Alafaya Trail (4)
PI STA. = 215+06.26
DELTA = 1° 19' 47"
D = 1° 00' 00"
T = 66.49
L = 132.97
R = 5729.58
PC STA. = 214+39.77
PT STA. = 215+72.74

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

EXISTING B.E 12.47kV DISTRIBUTION TO REMAIN *APPROX. LOCATION - PLEASE SURVEY TO CONFIRM CONFLICT WITH PROPOSED DRAINAGE

EXISTING POLE AND APPURTENANCES TO BE MODIFIED (5131240) STA. 212+38, 62' RT

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

EXISTING POLE AND APPURTENANCES TO REMAIN (5131239) STA. 214+12, 64' RT

Apparent Transmission, please consult with:
DEFtransmissionGOV@duke-energy.com

END PROJECT
END CONST.
℄ CONST. ALAFAYA TRAIL
STA. 214+32.23

*EASEMENT-R/W

FOR CONSTRUCTION AND MAINTENANCE OF STATE ROAD FOR PUBLIC ROAD RIGHT-OF-WAY PER OFFICIAL RECORD BOOK 4069, PAGE 2059. ALSO SHOWN AS A R/W LINE DEPICTED ON FDOT R/W MAP STATE ROAD 434/ALAFAYA TRAIL ORANGE COUNTY, FLORIDA SECTION 75037-2501 SHEETS 1-16, DATED 12-22-87.

LEGEND:
4" CONC.
6" CONC.
TYPE P1 PED. FENCE PER FDOT INDEX D550-804

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ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - ALAFAYA TRAIL

SHEET NO. 56

WINARDI, CHRIS 6/8/2021 6:44:16 PM

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Apparent Transmission, please consult with:
DEFtransmissionGOV@duke-energy.com

EXISTING POLE AND APPURTENANCES TO REMAIN (846295) STA. 3+50, 69' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (846295) STA. 3+8, 86' RT

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

EXISTING POLE AND APPURTENANCES TO REMAIN (8061027) STA. 5+27, 52' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (6355984) STA. 5+15, 37' LT

EXISTING B.E 12.47kV DISTRIBUTION TO REMAIN *APPROX. LOCATION - PLEASE SURVEY TO CONFIRM CONFLICT

EXISTING POLE AND APPURTENANCES TO REMAIN (5129326) STA. 6+40, 50' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (B258258) STA. 5+91, 50' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (8133854) STA. 5+49, 68' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (846294) STA. 5+49, 87' RT

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

EXISTING POLE AND APPURTENANCES TO REMAIN (6355985SL) STA. 6+60, 38' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (5129311) STA. 5+91, 87' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (6356015) STA. 7+48, 86' RT

EXISTING POLE AND APPURTENANCES TO BE REPLACED (8135489) STA. 7+51, 50' LT

EXISTING B.E 120/240V CONDUCTOR TO REMAIN *APPROX. LOCATION - PLEASE SURVEY TO CONFIRM CONFLICTs

BEGIN CONST. ℄ CONST. UNIVERSITY BLVD STA. 4+81.76

℄ CONST. UNIVERSITY BLVD

QUADRANGLE BLVD

COLLEGIATE WAY

RACETRAC DRIVEWAY

R/W

R/W LINE

EXIST. SIDEWALK TO REMAIN (TYP.)

EXISTING SIDEWALK TO REMAIN

CONST. 4" CONC. SLAB EXTENSION

PROP. BUS BENCH

EXIST. BUS BENCH TO BE RELOCATED

EXIST. BUS STOP TO BE EXTENDED

EXIST. BUS BENCH TO REMAIN

MATCH EXIST.

BEGIN PED. FENCE +57.54 39.36' LT.

END PED. FENCE +80.12 39.52' LT.

BEGIN PED. FENCE +89.54 39.63' LT.

END PED. FENCE +71.11 39.77' LT.

BEGIN PED. FENCE +54.33 50.42' LT.

+79.88 80.74' LT.

+08.88 50.81' LT.

+37.59 32.17' LT.

+52.57 39.33' LT.

+18.03 88.84' RT.

+01.58 70.25' RT.

+66.18 69.03' RT.

+00.12 59.99' RT.

+11.18 59.96' RT.

BEGIN +20.32 69.54' RT.

+86.54 80.82' RT.

+52.20 76.88' RT.

+47.85 70.25' RT.

+80.24 76.93' RT.

END PED. FENCE +66.22 69.83' RT.

BEGIN PED. FENCE +71.22 69.81' RT.

END PED. FENCE +06.22 69.64' RT.

+11.22 69.58' RT.

9.2'

9.3'

11.7'

5'

6.8'

EOP

N 89° 30' 37" E

0 10 40 Feet

N

3 4 5 6 7

MATCHLINE STA. - 8+00.00

LEGEND:

4" CONC. 6" CONC. TYPE P1 PED. FENCE PER FDOT INDEX D550-804

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

REVISIONS			
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AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - UNIVERSITY BLVD.

SHEET NO. 57

WINARDI, CHRIS 6/8/2021 4:44:11 PM

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EXISTING B.E 12.47kV DISTRIBUTION TO BE PARTIALLY ABANDONED AND PLACED OUT OF SERVICE

EXISTING POLE AND APPURTENANCES TO BE REMOVED (6355985) STA. 8+40, 50' LT

EXISTING B.E 12.47kV DISTRIBUTION TO REMAIN *APPROX. LOCATION

EXISTING POLE AND APPURTENANCES TO BE REPLACED (8678069) STA. 9+67, 50' LT

PROPOSED B.E 12.47kV DISTRIBUTION TO BE INSTALLED

PROPOSED B.E 12.47kV DISTRIBUTION TO BE INSTALLED

Apparent Transmission, please consult with: DEFtransmissionGOV@duke-energy.com

EXISTING POLE AND APPURTENANCES TO BE MODIFIED (8064626) STA. 10+47, 50' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (B258255) STA. 11+80, 50' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (8064627) STA. 13+36, 50' LT

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

EXISTING B.E 120/240V CONDUCTOR TO REMAIN *APPROX. LOCATION - PLEASE SURVEY TO CONFIRM CONFLICT

EXISTING B.E 120/240V CONDUCTOR TO REMAIN *APPROX. LOCATION - PLEASE SURVEY TO CONFIRM CONFLICT

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

EXISTING B.E 120/240V CONDUCTOR TO REMAIN *APPROX. LOCATION - PLEASE SURVEY TO CONFIRM CONFLICTs

EXISTING POLE AND APPURTENANCES TO REMAIN (8150061) STA. 9+61, 39' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (8150061) STA. 11+7, 39' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (6355988) STA. 13+6, 38' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (6356016) STA. 9+58, 67' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (6356017) STA. 11+59, 67' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (6356018) STA. 13+53, 65' RT

EXISTING B.E 120/240V CONDUCTOR TO REMAIN *APPROX. LOCATION - PLEASE SURVEY TO CONFIRM CONFLICTs

Apparent Transmission, please consult with: DEFtransmissionGOV@duke-energy.com

SURVEY CONTROL POINT
SET 5/8 IRC BFA TRAV
N: 1550128.523'
E: 587329.005'
EL: 50.14'

SURVEY CONTROL POINT
SET 5/8 IRC BFA TRAV
R/W LINE N: 1550125.978'
E: 587[illegible]
EL: 54.24'

+20.90
50.64' LT.

+70.97
40.03' LT.

+38.15
52.36' LT.

END PED. FENCE
+47.37
41.09' LT.

9.2'

9.2'

R/W

EXISTING SIDEWALK TO REMAIN

CONST. UNIVERSITY BLVD

N 89° 30' 37" E

UNIVERSITY BLVD

BEGIN PED. FENCE
+61.53
69.76' RT.

END PED. FENCE
+73.47
79.53' RT.

9.5'

12'

WAWA DRIVEWAY

+48.83
87.51' RT.

+48.87
109.51' RT.

+88.87
109.43' RT.

+02.89
69.21' RT.

+99.62
86.99' RT.

R/W

R/W LINE

EXISTING SIDEWALK TO REMAIN (TYP.)

R/W LINE

MATCHLINE STA. - 8+00.00

MATCHLINE STA. 8+00.00

0 10 40
Feet

N

LEGEND:

4" CONC.

6" CONC.

TYPE P1 PED. FENCE PER FDOT INDEX D550-804

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REVISIONS

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AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - UNIVERSITY BLVD.

SHEET NO. 58

WINARDI, CHRIS 6/8/2021 4:44:20 PM

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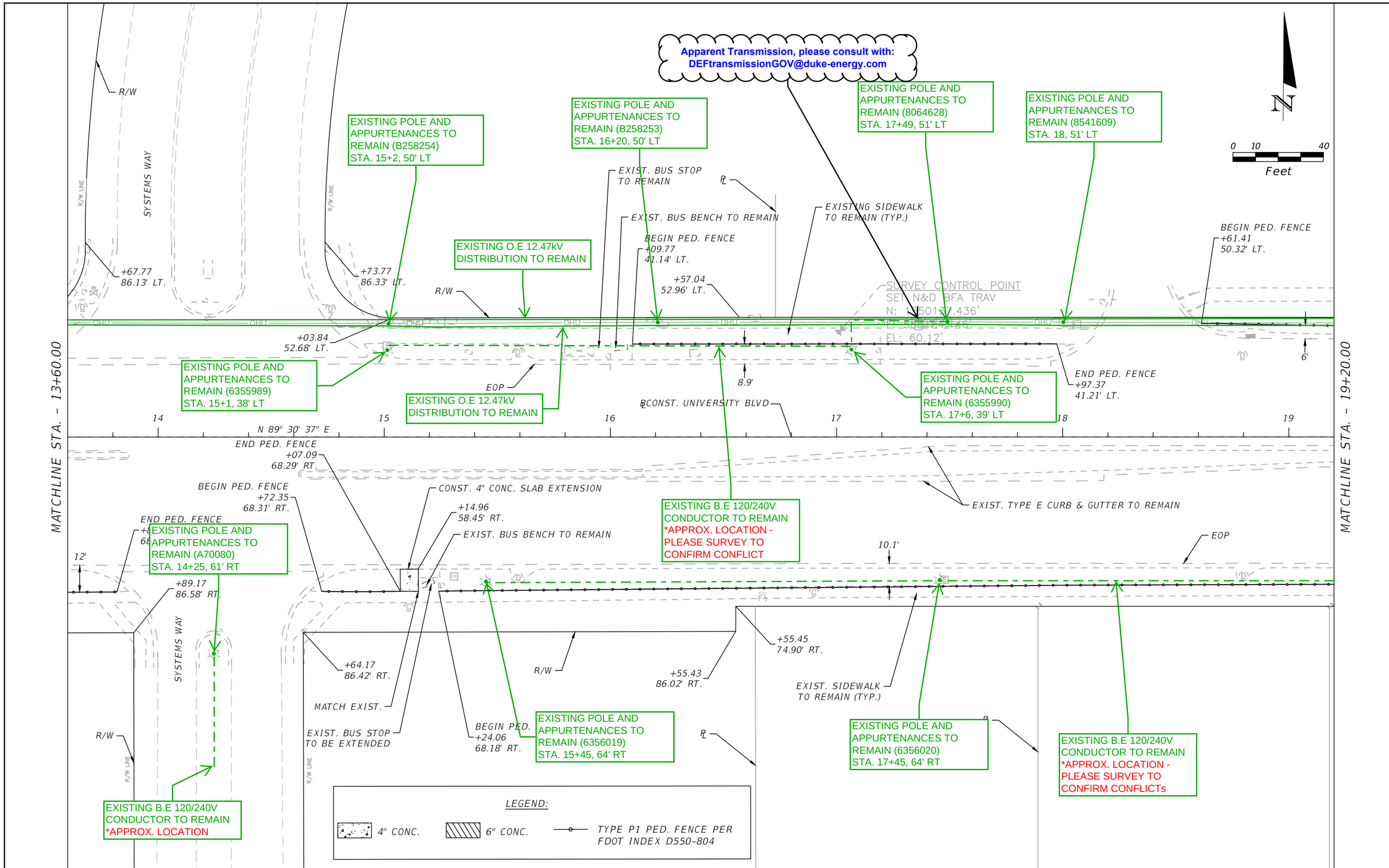

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FAX:(407) 599-1133
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ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - UNIVERSITY BLVD.

SHEET NO. 59

WINARDI, CHRIS 6/8/2021 4:44:30 PM T:\2019\2019.0080.01 - UCF-Alafaya Safety\CAD\Roadway\PLANRD01.dwg

Apparent Transmission, please consult with: DEFtransmissionGOV@duke-energy.com

Apparent Transmission, please consult with: DEFtransmissionGOV@duke-energy.com

Apparent Transmission, please consult with: DEFtransmissionGOV@duke-energy.com

EXISTING POLE AND APPURTENANCES TO REMAIN (8064629) STA. 19+66, 50' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (W81812) STA. 20+82, 51' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (5129490) STA. 22+2, 51' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (8096992) STA. 23+24, 52' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (824877) STA. 24+75, 51' LT

EXISTING POLE AND APPURTENANCES TO REMAIN (6356021) STA. 19+49, 64' RT

EXISTING B.E 120/240V CONDUCTOR TO REMAIN *APPROX. LOCATION - PLEASE SURVEY TO CONFIRM CONFLICTs

EXISTING POLE AND APPURTENANCES TO REMAIN (6356022) STA. 21+50, 64' RT

EXISTING POLE AND APPURTENANCES TO REMAIN (6356023) STA. 23+46, 75' RT

EXISTING B.E 120/240V CONDUCTOR TO REMAIN *APPROX. LOCATION - PLEASE SURVEY TO CONFIRM CONFLICTs

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN

MATCHLINE STA. - 19+20.00

MATCHLINE STA. - 24+80.00

CONST. UNIVERSITY BLVD

N 89° 30' 37" E

EXISTING TRAFFIC SEPARATOR TO REMAIN

TURBINE DR

CONST. DROP CURB (TYP.)

CONST. MEDIAN CROSSING WITH DEPRESSED SIDEWALK

CONST. 4" CONC. SLAB EXTENSION

EXIST. BUS STOP TO BE EXTENDED

EXIST. BUS BENCH TO REMAIN

EXIST. SIDEWALK TO BE REMOVED

EXIST. BUS BENCH TO BE RELOCATED

EXIST. BUS STOP TO BE RELOCATED DEMO EXIST. CONC. SLAB

CONST. 4" CONC. SLAB FOR PROPOSED BUS STOP

EXISTING SIDEWALK TO REMAIN (TYP.)

BEGIN PED. FENCE +53.84 48.77' LT.

END PED. FENCE +32.19 49.04' LT.

END PED. FENCE +01.17 41.34' LT.

BEGIN PED. FENCE +33.85 14.06' RT.

END PED. FENCE +65.68 64.70' RT.

BEGIN PED. FENCE +25.74 65.27' RT.

+16.31 50.67' LT.

+12.03 52.96' LT.

+10.71 51.44' LT.

+09.41 52.33' LT.

+09.07 53.11' LT.

+07.03 47.35' LT.

+05.76 47.14' LT.

+02.40 53.17' LT.

+01.17 50.74' LT.

+82.14 82.69' LT.

+71.22 91.63' LT. MATCH EXIST.

+22.03 82.96' LT.

+92.03 52.96' LT.

+18.45 49.45' LT.

+71.47 66.86' LT.

+78.01 50.96' LT.

+79.67 50.10' LT.

+85.37 43.63' LT.

+89.78 39.52' LT.

+89.91 36.59' LT.

+98.26 43.72' LT.

+39.97 5.78' LT.

+13.25 4.06' RT.

+33.72 43.95' LT.

+42.13 3.65' LT.

+57.94 39.31' LT.

+52.04 51.08' LT.

+58.04 51.12' LT.

+25.86 44.42' LT.

+00.31 62.95' LT.

+00.31 52.96' LT.

+93.57 43.86' LT.

+93.57 41.39' LT.

+60.43 44.45' LT.

+53.11 6.29' LT.

+18.85 44.47' LT.

+19.02 41.44' LT.

+51.82 3.87' RT.

+50.19 5.82' RT.

+10.95 18.09' RT.

+23.97 15.61' RT.

+13.87 62.59' RT.

+19.94 61.45' RT.

+25.93 61.80' RT.

+58.89 73.04' RT.

+12.77 61.54' RT.

+09.93 4.47' RT.

+05.78 62.88' RT.

+11.62 6.00' RT.

+06.01 64.85' RT.

+92.63 69.73' RT.

+89.53 72.71' RT.

+88.51 74.91' RT.

+95.00 74.91' RT.

+03.88 74.91' RT.

+10.30 71.19' RT.

+12.86 70.43' RT.

+12.79 64.91' RT.

+13.79 63.97' RT.

+25.47 70.32' RT.

+92.73 57.80' RT.

+72.09 57.86' RT.

+57.12 64.57' RT.

+18.51 74.91' RT.

+51.23 41.63' LT.

+07 42.38

9.2'

5.9'

5.6'

5.1'

R/W

R/W LINE

EOP

R30'

R2'

R1'

R1.5' (TYP.)

R40'

R4.5'

CR-F

CR-C

CR-E

12.8'

9.3'

7'

20

21

22

23

24

0 10 40 Feet

N

LEGEND:

4" CONC.

6" CONC.

TYPE P1 PED. FENCE PER FDOT INDEX D550-804

CONC. DEMO

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REVISIONS

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5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
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FAX:(407) 599-1133
www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - UNIVERSITY BLVD.

SHEET NO. 60

WINARDI, CHRIS 6/8/2021 4:44:42 PM

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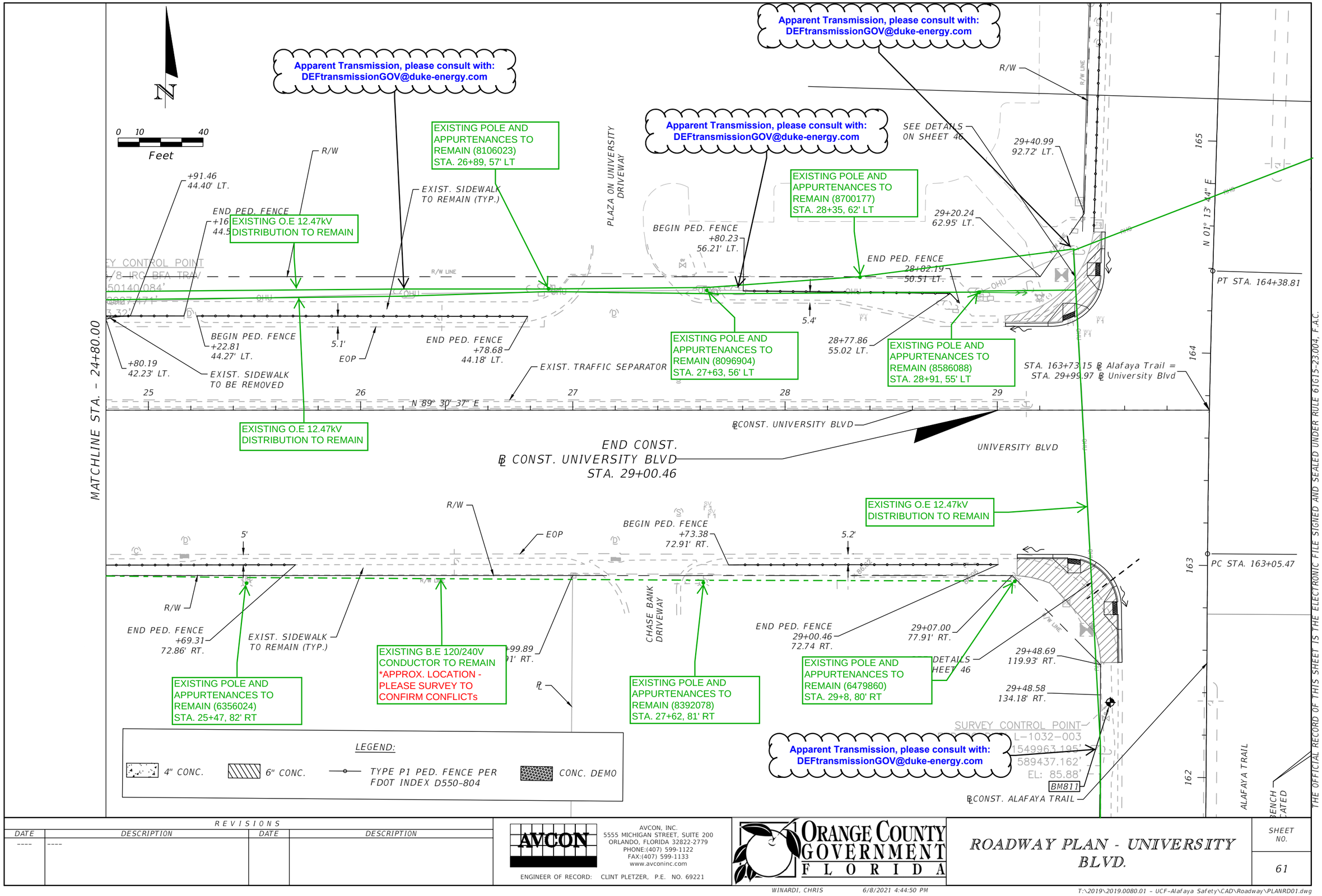

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DATE	DESCRIPTION	DATE	DESCRIPTION
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ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

ROADWAY PLAN - UNIVERSITY BLVD.

SHEET NO. 61

WINARDI, CHRIS 6/8/2021 4:44:50 PM

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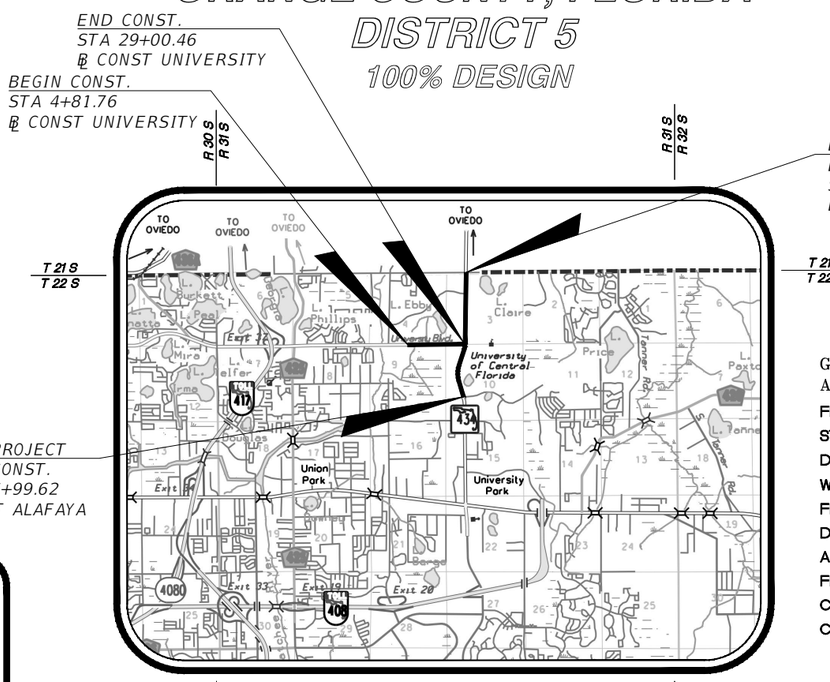
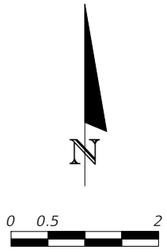
ORANGE COUNTY GOVERNMENT
FLORIDA

SIGNALIZATION PLANS FOR
ALAFAYA TRAIL AND UNIVERSITY BLVD
PEDESTRIAN SAFETY IMPROVEMENTS
PHASE 1
ALAFAYA TRAIL FROM RESEARCH PY TO McCULLOCH RD
UNIVERSITY BLVD FROM QUADRANGLE BLVD TO ALAFAYA TR
CONTRACT NO.: Y18-800
ORANGE COUNTY, FLORIDA
DISTRICT 5
100% DESIGN



VICINITY MAP



GOVERNING STANDARDS AND SPECIFICATIONS :

FLORIDA DEPARTMENT OF TRANSPORTATION (FDOT) STANDARD PLANS DATED 2021 - 2022 AND APPLICABLE DESIGN STANDARDS REVSIONS (DSRs) AT THE FOLLOWING WEBSITE: HTTP://WWW.FDOT.GOV/ROADWAY

FDOT MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION, AND MAINTENANCE FOR STREETS, AND HIGHWAYS, DATED 2018

FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, DATED JULY 2021 AS AMENDED BY CONTRACT DOCUMENTS.

SOURCE OF BENCHMARK DATUM

B.M. #1

C-803-010
ORANGE COUNTY BRASS DISK, NORTH END OF CURB INLET, WEST SIDE OF ALAFAYA TRAIL,
N: 1552100.680'
E: 589481.988'
EL: 82.787'

B.M. #2

L-1032-003
ORANGE COUNTY BRASS DISK
N: 1549963.195'
E: 589437.162'
EL: 85.88'

SEE SURVEY CONTROL SHEET FOR ADDTIONAL B.M. INFORMATION

PROJECT LENGTH:	FEET	MILES
ROADWAY:	11,144	2.11
EXIST. BRIDGES:	0.00	0.000
TOTAL LENGTH:	11,144	2.11

DUKE ENERGY DISTRIBUTION MARK-UP ENGINEER:
Cullen Abernethy
CONTACT PHONE: (412) 992-6840
CONTACT E-MAIL: Cullen.Abernethy@duke-energy.com
WO: 41473623
CONTRACTOR TO PERFORM LOCATES AND IDENTIFY ANY UNDERGROUND ELECTRIC FACILITIES NOT IDENTIFIED ON THIS MAP. ALSO, CONTRACTOR TO ADHERE TO APPLICABLE OSHA REQUIREMENTS REGARDING PERFORMING WORK AND OPERATING EQUIPMENT ADJACENT TO ENERGIZED OVERHEAD AND UNDERGROUND ELECTRIC CONDUCTORS.

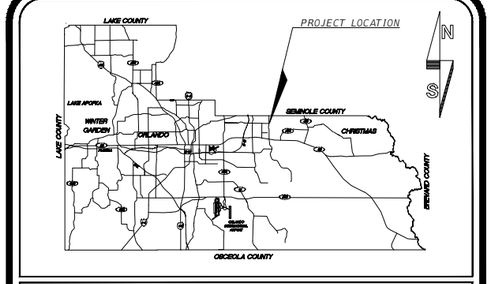
NOTE

PLANS WERE PREPARED ACCORDING TO AVAILABLE INFORMATION TO ADEQUATELY ADDRESS CONDITIONS AS THEY EXISTED AT THE TIME OF PLANS PREPARATION. NEEDS, CONDITIONS AND OWNERSHIP OF PROPERTIES MAY HAVE CHANGED SINCE PROJECT DESIGN. THE COUNTY'S REPRESENTATIVE WILL ADDRESS CHANGES AND NEEDS WITH THE PROPERTY OWNER OR THEIR REPRESENTATIVES. CONTRACTOR SHALL WORK WITH THE COUNTY'S REPRESENTATIVE IN ADDRESSING AND MEETING NEEDS AND CONDITIONS THAT MAY HAVE CHANGED SINCE PLANS PREPARATION.

CERTIFICATION TO PLANS

I HEREBY CERTIFY THAT THE DESIGN FOR THIS PROJECT AND THE ATTACHED CONSTRUCTION PLANS COMPLY WITH THE REQUIREMENTS OF SECTION 336.045 OF THE FLORIDA STATUTES AND ARE IN SUBSTANTIAL CONFORMANCE WITH THE STANDARDS CONTAINED IN THE EDITION OF THE "MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONSTRUCTION AND MAINTENANCE FOR STREETS AND HIGHWAYS" IN EFFECT ON THIS DATE AS ADOPTED BY THE FLORIDA DEPARTMENT OF TRANSPORTATION PURSUANT TO SUBSECTION 336.045(1) OF THE FLORIDA STATUTES.

DATE: 06/04/21 ENGINEER: CLINT PLETZER, P.E. NO. 69221



LOCATION MAP

INDEX OF SHEETS

T1	SIGNALIZATION COVER SHEET
T2	TABULATION OF QUANTITIES
T3	TABULATION OF QUANTITIES (2)
T4	SIGNALIZATION GENERAL NOTES
T5	REPORT OF SPT BORINGS - SIGNAL STRUCTURES
T6	REPORT OF SPT BORINGS - SIGNAL STRUCTURES
T7	SIGNALIZATION PLAN - UNIVERSITY/TURBINE
T8	SIGNALIZATION PLAN - ALAFAYA/SOLON
T9	SIGNALIZATION PLAN - ALAFAYA/UNIVERSITY
T10	MAST ARM TABULATION SHEET
T11	MAST ARM ASSEMBLIES DATA TABLE
T12	TRAFFIC SIGNAL MISCELLANEOUS DETAILS
T13	GUIDE SIGN WORKSHEET
T14	INTERCONNECT PLAN
T15	SPLICE DIAGRAM
T16	SPLICE DIAGRAM
T17	SPLICE DIAGRAM

UTILITIES ENCOUNTERED

AT&T DISTRIBUTION	(800) 778-9140
BLACK & VEATCH ORLANDO	(407) 419-3606
CENTURYLINK	(877) 366-8344
CHARTER COMMUNICATIONS	(407) 532-8092
CITY OF ORLANDO - RECLAMATION	(407) 246-3798
CROWN CASTLE FIBER	(801) 364-1063
DUKE ENERGY	(800) 778-9140
ORANGE COUNTY UTILITIES	(407) 836-6869
SUMMIT BROADBAND	(407) 996-1183
SEMINOLE COUNTY TRAFFIC	(407) 665-5642
TECO PEOPLES GAS	(813) 228-4025
UNITI FIBER	(877) 652-2321
UNIVERSITY OF CENTRAL FLORIDA	(407) 823-2000
UTILITIES & ENERGY SERVICE	(858) 888-0503
VERIZON	(919) 414-2782

PREPARED BY:

AVCON

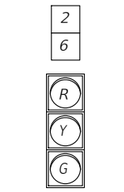
AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com

REVISIONS	DATE	BY

DESIGNED BY:	CNW	DATE:	06/04/21
DRAWN BY:	CNW	DATE:	06/04/21
CHECKED BY:	CJP	DATE:	06/04/21
APPROVED BY:	RVB	DATE:	06/04/21
PROJECT NO:			

SHEET T-1
OF T-17

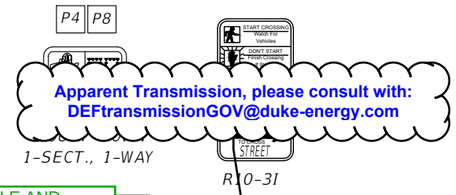
SIGNAL HEAD DETAILS



3-SECT., 1-WAY

6 AS
650-1-14

PEDESTRIAN DETAILS



1-SECT., 1-WAY

R10-3I

(TO BE INCLUDED IN PAY ITEM 665-1-11)

Apparent Transmission, please consult with: DEFtransmissionGOV@duke-energy.com

EXISTING POLE AND APPURTENANCES TO REMAIN (W81812) STA. 20+82, 51' LT

1

EXISTING POLE AND APPURTENANCES TO REMAIN (5129490) STA. 22+2, 51' LT

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN *TO REMAIN ENERGIZED

TURBINE DR

641-2-12 1 EA

CROWN ELEV=67.36'

R/W LINE

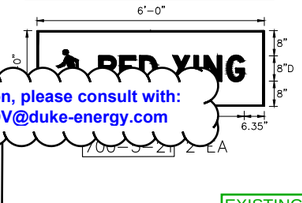
630-2-11	20 LF
632-7-1	1 PI
635-2-11	3 EA
639-1-122	1 AS
639-2-1	100 LF
660-4-11	1 EA
663-1-111	1 EA
670-5-111	1 AS
680-1-112	1 EA

EXISTING POLE AND APPURTENANCES TO REMAIN (8096992) STA. 23+24, 52' LT

PROP. POLE NO. 1
STA. 23+06.75
OFF. 45.12' LT.
EL. 68.51'

635-2-11	1 EA
649-21-5	1 EA

OVERHEAD SIGNS



700-3-21 2 EA



R3-1"

LED BLANK-OUT 36"

391 1 AS

Apparent Transmission, please consult with: DEFtransmissionGOV@duke-energy.com

EXISTING POLE AND APPURTENANCES TO REMAIN (824877) STA. 24+75, 51' LT

SIGN NOTES:
1. ALL STREET NAME SIGNS WILL BE CANTILEVER MOUNTED.
2. ALL STREET NAME SIGNS SHALL BE DOUBLE FACED.
3. SIGNS SHALL BE ILLUMINATED WITH WHITE LEDS.
4. SEE SHEETS T-11 FOR STREET SIGN DETAILS.
5. SIGN B LED BLANK-OUT SHALL ILLUMINATE ONLY DURING MOVEMENT P8.

630-2-11	15 LF
635-2-11	1 EA
646-1-11	1 EA
653-1-11	1 AS
665-1-11	1 EA

VEHICLE DETECTION ZONE LENGTH: 330' (TYP.)

20 21 22 23 24 25

1 EA 660-4-12

680-1-113 1 EA

1 EA 663-1-112

CROWN ELEV=69.44'

EXISTING O.E 12.47kV DISTRIBUTION TO REMAIN *DE-ENERGIZE/ISOLATE THIS O.E SPAN FOR SAFE INSTALLATION OF NEW MAST ARM. COORDINATE WITH DUKE ENERGY IN ADVANCE. CIRCUIT TO RETURN TO NORMAL OPERATION UPON CONSTRUCTION COMPLETION.

EXISTING B.E 120/240V CONDUCTOR TO REMAIN *APPROX. LOCATION

V-2

V-2

V-2

V-6

V-6

630-2-11	15 LF
635-2-11	1 EA
646-1-11	1 EA
653-1-11	1 AS
665-1-11	1 EA

VEHICLE DETECTION ZONE LENGTH: 330' (TYP.)

CROWN ELEV=70.38'

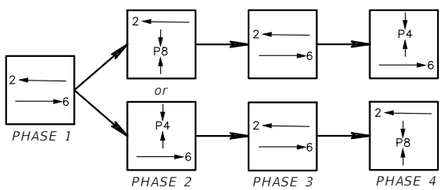
660-4-12	1 EA
663-1-112	1 EA
680-1-113	1 EA

PROP. POLE NO. 2
STA. 23+35.82
OFF. 72.08' RT.
EL. 69.72'

630-2-11	5 LF
635-2-11	1 EA
649-21-6	1 EA

MOVEMENT DIAGRAM

MODIFIED S.O.P. 17



EXISTING POLE AND APPURTENANCES TO REMAIN (6356022) STA. 21+50, 64' RT

630-2-11	3 LF
635-2-11	1 EA
646-1-11	1 EA
653-1-11	1 AS
665-1-11	1 EA

630-2-11	30 LF
635-2-11	1 EA
646-1-11	1 EA
653-1-11	1 AS
665-1-11	1 EA

630-2-12 4 RUNS @ 110 LF

EXISTING B.E 120/240V CONDUCTOR TO REMAIN *APPROX. LOCATION - PLEASE SURVEY TO CONFIRM CONFLICT WITH TRAFFIC MAST DRILL SHAFT. BASED ON VVH INFORMATION, NOTHING FOUND.

R/W LINE

R/W LINE

NOTES:
1. THE SPEED LIMIT ON UNIVERSITY BLVD. IS 45 MPH.
2. DURING FLASH OPERATION, SIGNAL HEADS 2 & 6 WILL FLASH YELLOW AND ALL OTHER SIGNAL HEADS WILL FLASH RED.
3. SEE TRAFFIC SIGNAL MISCELLANEOUS DETAILS SHEET FOR PEDESTRIAN PUSH BUTTON MOUNTING DETAILS.

CONTROLLER TIMINGS

TIMING FUNCTION TIMINGS	TIMING FUNCTION NUMBER	2	6	P4	P8
	MINIMUM GREEN	15	15	-	-
	EXTENSION	3	3	-	-
	MAXIMUM GREEN 1	50	50	-	-
	MAXIMUM GREEN 2	-	-	-	-
	YELLOW CLEARANCE	5.0	5.0	-	-
	ALL RED	2.0	2.0	-	-
	PEDESTRIAN WALK	-	-	7	7
	PED. CLEARANCE	-	-	10	15
	RECALL	MIN	MIN	-	-

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
----	----		

AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT FLORIDA

SIGNALIZATION PLAN - UNIVERSITY BLVD & TURBINE DR

SHEET NO. T-7

WINARDI, CHRIS 6/8/2021 4:07:14 PM

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SIGNAL HEAD DETAILS



3-SECT., 1-WAY

6 AS
650-1-14

PEDESTRIAN DETAILS



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

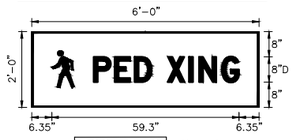
4 AS
653-1-11



R10-3

(TO BE INCLUDED IN PAY ITEM 665-1-11)

OVERHEAD SIGNS



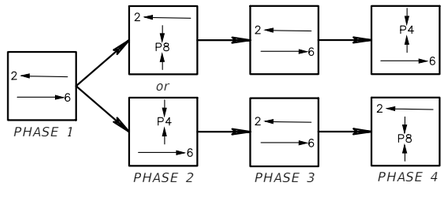
700-5-21 2 EA

SIGN NOTES:
1. ALL STREET NAME SIGNS SHALL BE DOUBLE FACED.
2. SIGNS SHALL BE ILLUMINATED WITH WHITE LEDS.
3. SEE SHEETS T-11 FOR STREET SIGN DETAILS.
4. PEDESTRIAN ACTUATION BUTTON SIGNS FOR SR 434 SHALL READ "N ALAFAYA TRAIL".

CONTROLLER TIMINGS					
	TIMING FUNCTION NUMBER	2	6	P4	P8
TIMING FUNCTION TIMINGS	MINIMUM GREEN	15	15	-	-
	EXTENSION	3	3	-	-
	MAXIMUM GREEN 1	50	50	-	-
	MAXIMUM GREEN 2	-	-	-	-
	YELLOW CLEARANCE	5.0	5.0	-	-
	ALL RED	2.0	2.0	-	-
	PEDESTRIAN WALK	-	-	7	7
	PED. CLEARANCE	-	-	11	11
	RECALL	MIN	MIN	-	-

MOVEMENT DIAGRAM

MODIFIED S.O.P. 17



NOTES:
1. THE SPEED LIMIT ON ALAFAYA TRL. IS 45 MPH.
2. DURING FLASH OPERATION, SIGNAL HEADS 2 & 6 WILL FLASH YELLOW AND ALL OTHER SIGNAL HEADS WILL FLASH RED.
3. SEE TRAFFIC SIGNAL MISCELLANEOUS DETAILS SHEET FOR PEDESTRIAN PUSH BUTTON MOUNTING DETAILS.
4. PEDESTRIAN ACTUATION BUTTON SIGNS FOR SR 434 SHALL READ "N ALAFAYA TRAIL".

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
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AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE:(407) 599-1122
FAX:(407) 599-1133
www.avconinc.com

ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

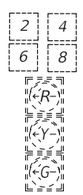
ORANGE COUNTY GOVERNMENT FLORIDA

SIGNALIZATION PLAN - ALAFAYA TRL & SOLON DR

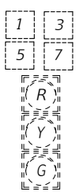
SHEET NO. T-8

WINARDI, CHRIS 6/8/2021 4:07:23 PM T:\2019\2019.0080.01 - UCF-Alafaya Safety\CAD\Signals\PLANSG01.dwg

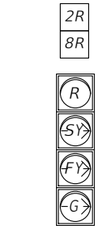
SIGNAL HEAD DETAILS



3-SECT., 1-WAY
EXISTING



3-SECT., 1-WAY
EXISTING



4-SECT., 1-WAY

2 AS
650-1-16

630-2-11	14 LF
632-7-2	14 LF
635-2-11	1 EA
646-1-12	1 EA
653-1-11	1 EA
665-1-11	1 EA

EXIST. POLE E1

653-1-60	2 AS
665-1-60	2 AS

630-2-11	41 LF
632-7-2	41 LF
635-2-11	1 EA
646-1-12	1 EA
653-1-11	1 EA
665-1-11	1 EA

EXIST. MAST ARM

EXIST. MAST ARM

630-2-11	27 LF
632-7-2	27 LF
635-2-11	1 EA
646-1-12	1 EA
653-1-11	1 EA
665-1-11	1 EA

646-1-60	1 EA

653-1-60	1 AS
665-1-60	1 AS

EXIST. POLE E4

630-2-11	21 LF
632-7-2	21 LF
635-2-11	1 EA
646-1-12	1 EA
653-1-11	1 EA
665-1-11	1 EA

PROP. EASEMENT

EXIST. SIGNAL CABINET

630-2-11	15 LF
632-7-2	15 LF
635-2-11	1 EA
646-1-12	1 EA
653-1-11	1 EA
665-1-11	1 EA

EXIST. POLE E2

653-1-60	2 AS
665-1-60	2 AS

630-2-11	13 LF
632-7-2	13 LF
635-2-11	1 EA
646-1-12	1 EA
653-1-11	1 EA
665-1-11	1 EA

EXIST. MAST ARM

EXIST. MAST ARM

650-1-60	1 AS

630-2-11	26 LF
632-7-2	26 LF
635-2-11	1 EA
646-1-12	1 EA
653-1-11	1 EA
665-1-11	1 EA

EXIST. POLE E3

646-1-60	1 EA

630-2-11	31 LF
632-7-2	31 LF
635-2-11	1 EA
646-1-12	1 EA
653-1-11	1 EA
665-1-11	1 EA

PROP. EASEMENT

PT STA. 164+38.81

PC STA. 163+05.47

STA. 30+00.00 ℄ University Blvd =
STA. 163+73.15 ℄ Alafaya Trail

ALAFAYA TRL

UNIVERSITY BLVD

R/W LINE

EXISTING R/W
(OR 4069, PG 2509)

R/W EASEMENT
(OR 4069, PG 2509)

OHU

PHO

1" = 40'

N

0 10 40
Feet

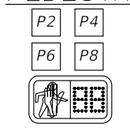
OVERHEAD SIGNS

YIELD
TO
PEDS

"YIELD TO PEDS"
LED BLANK-OUT
24"X30"

700-11-391	4 AS

PEDESTRIAN DETAILS



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

8 AS
653-1-11



R10-3I

(TO BE INCLUDED
IN PAY ITEM
665-1-11)

NOTES:

1. TRAFFIC SIGNAL CONTROLLER TO BE PROGRAMMED WITH A LEADING PEDESTRIAN INTERVAL OF 3 SECONDS FOR P2, P4, P6, & P8.
2. BLANK-OUT SIGNS TO DISPLAY "YIELD TO PEDESTRIANS" WHEN ADJACENT PED. PHASE IS ACTIVE.
3. SEE TRAFFIC SIGNAL MISCELLANEOUS DETAILS SHEET FOR PEDESTRIAN PUSH BUTTON MOUNTING DETAILS.
4. CONTRACTOR TO LOCATE AND CONNECT TO EXISTING PEDESTRIAN PULL BOXES
5. PEDESTRIAN ACTUATION BUTTON SIGNS FOR SR 434 SHALL READ "N ALAFAYA TRAIL".

*NO CONFLICT WITH EXISTING DUKE ENERGY FACILITIES

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
----	----		

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ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221

ORANGE COUNTY GOVERNMENT
FLORIDA

SIGNALIZATION PLAN - ALAFAYA TRL & UNIVERSITY

SHEET NO.
T-9

WINARDI, CHRIS 6/8/2021 4:07:33 PM

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