



CONSTRUCTION PLANS FOR N. FORT CHRISTMAS RD SAFETY IMPROVEMENTS

(FROM LAZY H LANE TO LAKE PICKETT ROAD)

CONTRACT NO.: Y15-901-A

FPN: 437458-1-58-01

FAN: D518-008-B

DISTRICT NO: 5

ORANGE COUNTY, FLORIDA

SOURCE OF BENCHMARK DATUM

BENCHMARK S-750-008
RECOVERED "SQUARE" CUT IN CENTERLINE
OF 1' WIDE BRICK HEADWALL ON
NORTHEAST CORNER OF FORT CHRISTMAS
ROAD AND LAZY H LANE, WITH 15" RCP;
SOUTH MOST OF TWO HEADWALLS, TO
DRIVE #4443 LAZY H LANE.
ELEVATION = 63.05'

SEE PROJECT LAYOUT SHEETS FOR
ADDITIONAL B.M. INFORMATION

PROJECT LENGTH:	FEET	MILES
ROADWAY:	1,975	0.374
EXIST. BRIDGES:	0.00	0.000
TOTAL LENGTH:	1,975	0.374

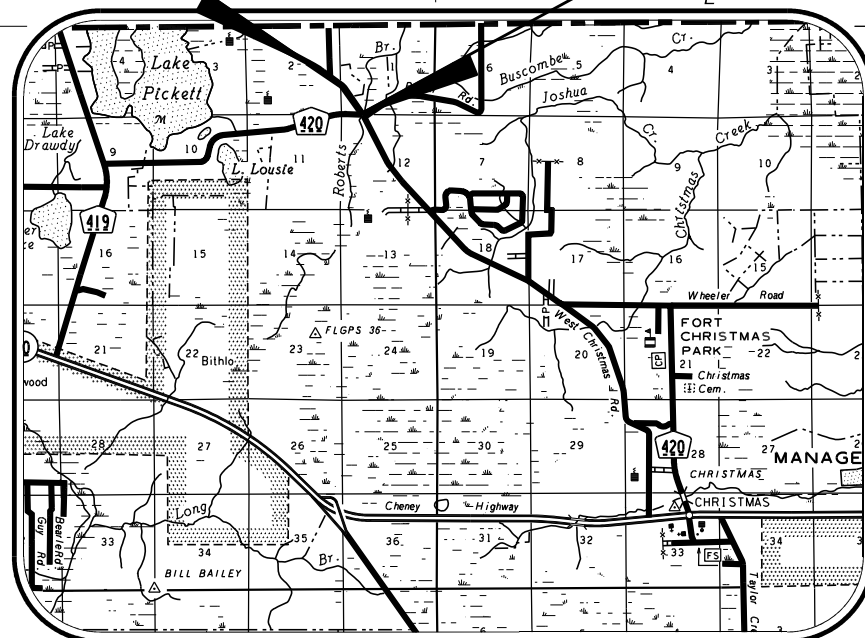
JERRY L. DEMINGS, COUNTY MAYOR

BOARD OF COUNTY
COMMISSIONERS

BETSEY VANDERLEY	DISTRICT 1
CHRISTINE MOORE	DISTRICT 2
MAYRA URIBE	DISTRICT 3
MARIBEL GOMEZ CORDERO	DISTRICT 4
EMILY BONILLA	DISTRICT 5
VICTORIA P. SIPLIN	DISTRICT 6
MARK MASSARO, P.E.	PUBLIC WORKS DIRECTOR

BEGIN PROJECT
BEGIN CONST.
STA. 100+10.00
BCONST FC

T 21 S
T 22 S



END PROJECT
END CONST.
STA. 119+84.93
BCONST FC

T 21 S
T 22 S

GOVERNING STANDARDS AND SPECIFICATIONS :

FLORIDA DEPARTMENT OF TRANSPORTATION
STANDARD PLANS FOR ROAD AND BRIDGE
CONSTRUCTION, DATED 2018-2019 AND
ORANGE COUNTY SPECIFICATIONS, AS
AMENDED BY CONTRACT DOCUMENTS

T 22 S
T 23 S

R 32 E
R 33 E
VICINITY MAP

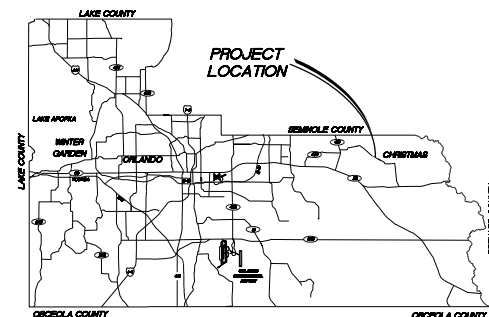
NOTE

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: 04/05/19 ENGINEER: EOR: CLINT PLETZER, P.E. NO. 69221



LOCATION MAP

INDEX OF SHEETS

SHEET	DESCRIPTION
1	KEY SHEET
2	SUMMARY OF PAY ITEMS
3	DRAINAGE MAP LT DITCH
4	DRAINAGE MAP RT DITCH
5-7	PROPOSED ROADWAY TYPICAL SECTION
8	SUMMARY OF DRAINAGE STRUCTURES
9	PROJECT NETWORK CONTROL
10	GENERAL NOTES
11-14	ROADWAY PLAN & PROFILE LT
15-18	ROADWAY PLAN & PROFILE RT
19-22	DRAINAGE STRUCTURES CROSS SECTIONS
23	ROADWAY SOILS SURVEY
24	REPORT OF AUGER BORINGS
25-46	ROADWAY CROSS SECTIONS
47	STORMWATER POLLUTION PREVENTION PLAN
48-49	TEMPORARY TRAFFIC CONTROL GENERAL NOTES

S1-S7 SIGNING AND MARKING PLANS

UTILITIES ENCOUNTERED

UTILITIES OWNER	TELEPHONE NUMBER
AT&T DISTRIBUTION	(407) 351-8180
DUKE ENERGY FLORIDA, INC.	(352) 459-4671

PREPARED BY:



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: NJJ DATE: 04/05/19
DRAWN BY: NJJ DATE: 04/05/19
CHECKED BY: CJP DATE: 04/05/19
APPROVED BY: CJP DATE: 04/05/19
PROJECT NO: 437458-1-58-01

SHEET 1
OF 49

SUMMARY OF PAY ITEMS

ITEM	DESCRIPTION	UNIT	QUANTITY
101-1	MOBILIZATION	LS	1
102-1	MAINTENANCE OF TRAFFIC	LS	1
104-14	PREVENTION, CONTROL & ABATEMENT OF EROSION & WATER POLLUTION	LS	1
110-1-1	CLEARING & GRUBBING	LS	1
120-9	EXCAVATION, EMBANKMENT & GRADING	LS	1
160-4	TYPE B STABILIZATION (MIN. LBR 40) (12")	SY	3,329
270-5	SOIL CEMENT BASE (PLANT MIX) (PRIMED) (300 PSI) (5")	SY	2,049
285-7-11	SUPERPAVE ASPHALTIC BASE, TYPE B - 12.5 (BLACK BASE) (7")	SY	465
327-70-8	MILLING EXISTING ASPHALT 2.5" AVG DEPTH	SY	4,212
334-1-53	SUPERPAVE ASPH CONC, TRAFFIC C, (1.25")	SY	4,676
334-1-53-1	SUPERPAVE ASPH CONC, TRAFFIC C, (OVERBUILD)	TN	72
337-7-82	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC C, FC-9.5, PG 76-22 (1.25")	SY	6,432
339-1	MISCELLANEOUS ASPHALT	TN	23
400-1-2	CONCRETE CLASS I, ENDWALLS	CY	3
425-2-91	MANHOLES, J-8, <10'	EA	1
430-174-124	PIPE CULVERT, SRCP, ROUND 24" SD (CLASS III)	LF	46
430-175-218	PIPE CULVERT, SRCP, ELIP/ARCH 14"x23" S/CD (CLASS III)	LF	141
430-175-224	PIPE CULVERT, SRCP, ELIP/ARCH 19"x30" S/CD (CLASS III)	LF	81
430-982-625	MITERED END SECTION, SRCP, ELIP/ARCH 14"x23" CD	EA	2
430-982-629	MITERED END SECTION, SRCP, ELIP/ARCH 19"x30" CD	EA	3
430-984-129	MITERED END SECTION, SRCP, ROUND 24" SD	EA	4
430-984-625	MITERED END SECTION, SRCP, ELIP/ARCH 14"x23" SD	EA	10
430-984-629	MITERED END SECTION, SRCP, ELIP/ARCH 19"x30" SD	EA	2
522-2	CONC. DRIVEWAYS 6" THICK	SY	198
524-1-1	CONCRETE DITCH PAVT, NON REINFORCED, 3"	SY	148
530-3-4	RIPRAP, RUBBLE, DITCH LINING	TN	100
536-1-0	GUARDRAIL -ROADWAY, GENERAL/LOW SPEED TL-2	LF	650
536-7-1	SPECIAL GUARDRAIL POST- DEEP POST FOR SLOPE BREAK COND.- TIMBER/STEEL	EA	19
536-85-24	GUARDRAIL END ANCHORAGE ASSEMBLY/END TREATMENT- PARALLEL	EA	6
550-10-110	FENCING, TYPE A, 0.0-5.0', STANDARD	LF	1,652
570-1-1	PERFORMANCE TURF (BAHIA OR MATCH EXIST.)	SY	6,566
700-1-11	SINGLE POST SIGN, F&I, GROUND MOUNT, UP TO 12 SF	AS	6
700-1-50	SINGLE POST SIGN, RELOCATE	AS	5
700-1-60	SINGLE POST SIGN, REMOVE	AS	2
701-18-101	PROFILED THERMOPLASTIC, STANDARD-ASPHALT SURFACES, WHITE, SOLID 6"	LF	3,990
701-18-201	PROFILED THERMOPLASTIC, STANDARD-ASPHALT SURFACES, YELLOW, SOLID 6"	LF	3,990
706-3	RETRO-REFLECTIVE PAVEMENT MARKERS (Y/Y)	EA	161
900-1	AS-BUILT PLANS	LS	1
900-2	INDEMNIFICATION	LS	1

PAY ITEM NOTES

ITEM 102-1, INCLUDES MAINTAINING UNINTERRUPTED ACCESS TO ALL DRIVEWAYS AND SIDE STREETS AT ALL TIMES. CONTRACTOR SHALL NOTIFY PROPERTY OWNERS IN WRITING FIVE DAYS PRIOR TO STARTING CONSTRUCTION. INCLUDES THE COST OF TEMP. ASPHALT SHOWN IN PLANS, OR OTHERWISE NEEDED TO CONST. PROJECT. INCLUDES THE COST OF TEMPORARILY ADJUSTING DITCHES AND/OR PROVIDING TEMP. DRAINAGE PIPES/STRUCTURES TO MAINTAIN POSITIVE DRAINAGE DURING CONST.

ITEM 110-1-1, CLEARING & GRUBBING, INCLUDES THE REMOVAL OF FENCE AS INDICATED IN PLANS OR WHERE EXISTING FENCE CONFLICTS WITH PROPOSED DESIGN. COST OF REPLACING FENCE DAMAGED BY CONSTRUCTION SHALL BE INCLUDED IN THIS PAY ITEM. ITEM INCLUDES REMOVAL OF OBSTRUCTIONS UP TO A MINIMUM OF 12' ABOVE THE FINISHED GROUND LEVEL. ALSO INCLUDES THE COST OF REMOVING ALL ABANDONED STRUCTURES AND PIPES, STRUCTURES THAT CONFLICT WITH PROPOSED IMPROVEMENTS, DRAINAGE STRUCTURES, REMOVAL AND REPLACEMENT OF MAILBOXES, REMOVAL OF TREES, AND REMOVAL AND REPLACEMENT OF BENCHMARKS.

(ITEMS BEGINNING IN 430) THE COST OF CONNECTING ANY PROPOSED PIPE TO AN EXISTING DRAINAGE STRUCTURE, AND THE COST OF THE CONCRETE COLLAR CONNECTING PROPOSED PIPES TO EXISTING PIPES SHALL BE INCLUDED IN THE COST OF THE PROPOSED PIPE. ALL PIPES SHALL BE STEEL REINFORCED CONCRETE PIPE (SRCP) AND COST OF STEEL REINFORCING SHALL BE INCLUDED IN THE COST OF PIPE. REMOVAL AND REPLACEMENT OF EXIST. STRUCTURES, ASPHALT, BASE, SOD, ETC. SHALL BE INCLUDED IN THE COST OF PIPE PER FDOT SPECIFICATION 125-14.6.

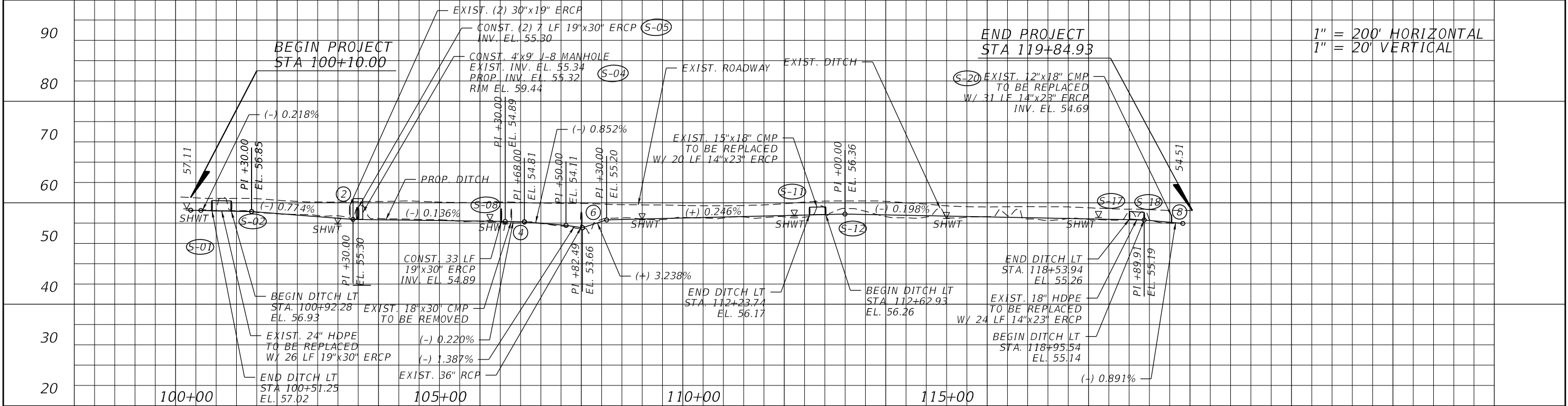
(ITEMS BEGINNING IN 701) PROFILED THERMOPLASTIC PAVEMENT MARKINGS SHALL NOT BE INSTALLED UNTIL THE FINAL ASPHALT SURFACE HAS CURED FOR 30 DAYS. PAINTED PAVEMENT MARKINGS SHALL BE INSTALLED DURING THE CURE PERIOD. PAYMENT FOR ONE APPLICATION OF PAINTED PAVEMENT MARKINGS ON THE FINAL ASPHALT SURFACE SHALL BE INCLUDED IN THE BID PRICES FOR PROFILED THERMOPLASTIC PAVEMENT MARKINGS.

nJohnson

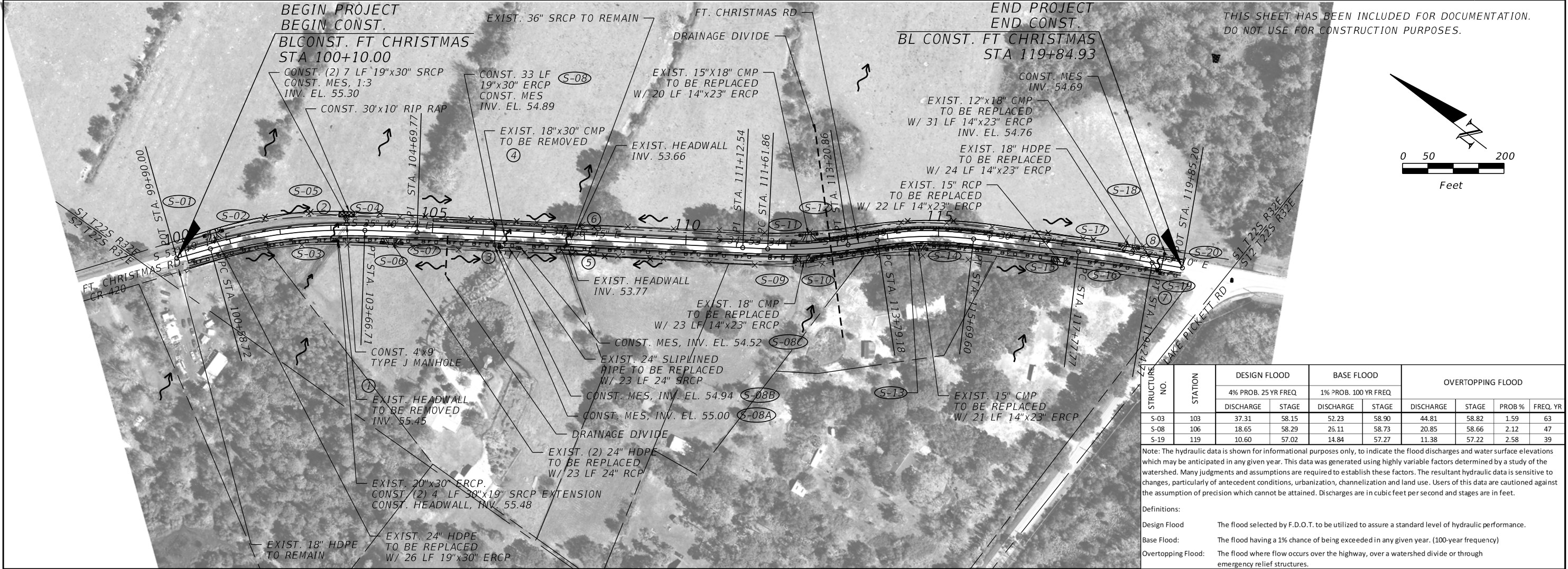
4/5/2019

11:44:59 AM

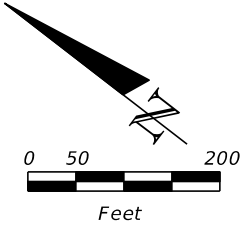
T:\2017\2017.080.01 - Ft Christmas\CAD\Roadway\SUMQRD01.DGN



1" = 200' HORIZONTAL
1" = 20' VERTICAL



THIS SHEET HAS BEEN INCLUDED FOR DOCUMENTATION.
DO NOT USE FOR CONSTRUCTION PURPOSES.



STRUCTURE NO.	STATION	DESIGN FLOOD		BASE FLOOD		OVERTOPPING FLOOD			
		4% PROB. 25 YR FREQ		1% PROB. 100 YR FREQ		DISCHARGE	STAGE	PROB %	FREQ. YR
		DISCHARGE	STAGE	DISCHARGE	STAGE				
S-03	103	37.31	58.15	52.23	58.90	44.81	58.82	1.59	63
S-08	106	18.65	58.29	26.11	58.73	20.85	58.66	2.12	47
S-19	119	10.60	57.02	14.84	57.27	11.38	57.22	2.58	39

Note: The hydraulic data is shown for informational purposes only, to indicate the flood discharges and water surface elevations which may be anticipated in any given year. This data was generated using highly variable factors determined by a study of the watershed. Many judgments and assumptions are required to establish these factors. The resultant hydraulic data is sensitive to changes, particularly of antecedent conditions, urbanization, channelization and land use. Users of this data are cautioned against the assumption of precision which cannot be attained. Discharges are in cubic feet per second and stages are in feet.

Definitions:
Design Flood: The flood selected by F.D.O.T. to be utilized to assure a standard level of hydraulic performance.
Base Flood: The flood having a 1% chance of being exceeded in any given year. (100-year frequency)
Overtopping Flood: The flood where flow occurs over the highway, over a watershed divide or through emergency relief structures.

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

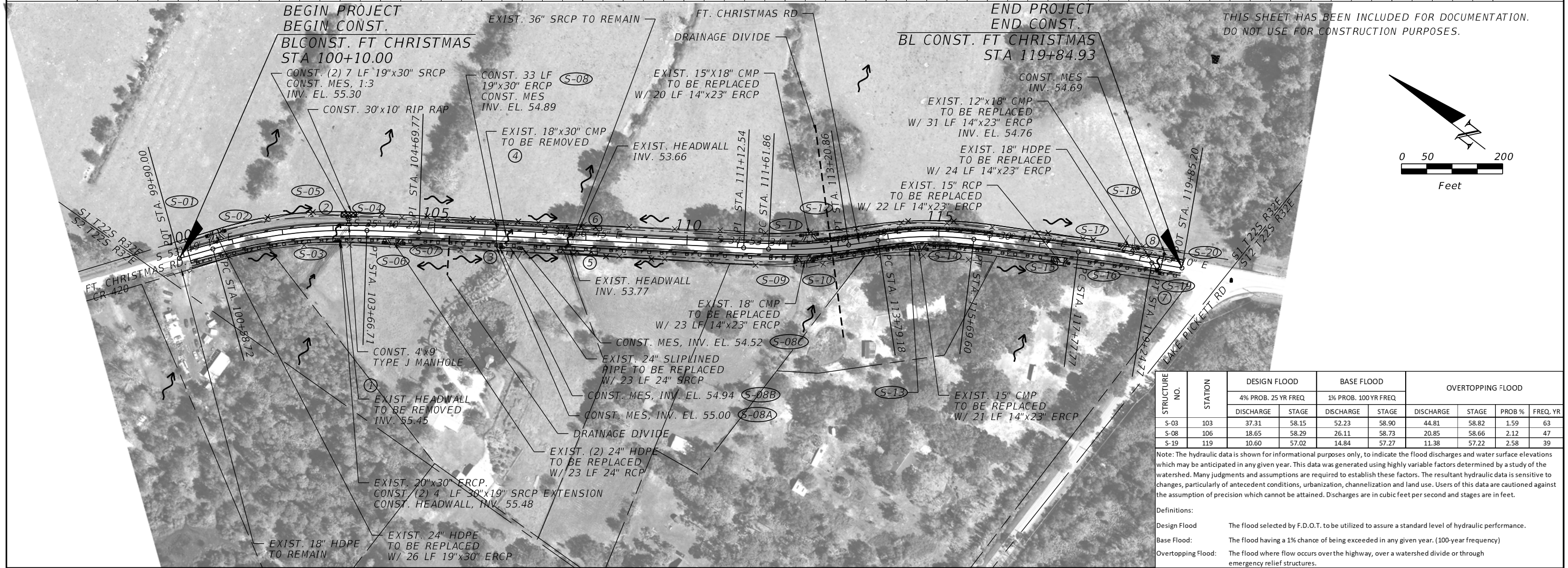
ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221



ORANGE COUNTY
GOVERNMENT
FLORIDA

N. FORT CHRISTMAS RD.
DRAINAGE MAP LT DITCH

SHEET NO.
3



STRUCTURE NO.	STATION	DESIGN FLOOD		BASE FLOOD		OVERTOPPING FLOOD			
		4% PROB. 25 YR FREQ.		1% PROB. 100 YR FREQ.		DISCHARGE	STAGE	PROB %	FREQ. YR
		DISCHARGE	STAGE	DISCHARGE	STAGE				
S-03	103	37.31	58.15	52.23	58.90	44.81	58.82	1.59	63
S-08	106	18.65	58.29	26.11	58.73	20.85	58.66	2.12	47
S-19	119	10.60	57.02	14.84	57.27	11.38	57.22	2.58	39

Note: The hydraulic data is shown for informational purposes only, to indicate the flood discharges and water surface elevations which may be anticipated in any given year. This data was generated using highly variable factors determined by a study of the watershed. Many judgments and assumptions are required to establish these factors. The resultant hydraulic data is sensitive to changes, particularly of antecedent conditions, urbanization, channelization and land use. Users of this data are cautioned against the assumption of precision which cannot be attained. Discharges are in cubic feet per second and stages are in feet.

Definitions:

Design Flood	The flood selected by F.D.O.T. to be utilized to assure a standard level of hydraulic performance.
---------------------	--

Base Flood: The flood having a 1% chance of being exceeded in any given year. (100-year frequency)

Overtopping Flood:	The flood where flow occurs over the highway, over a watershed divide or through emergency relief structures.
--------------------	---

AVCON

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

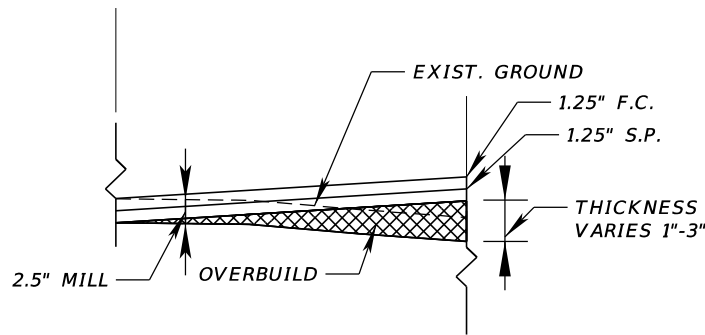
ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221



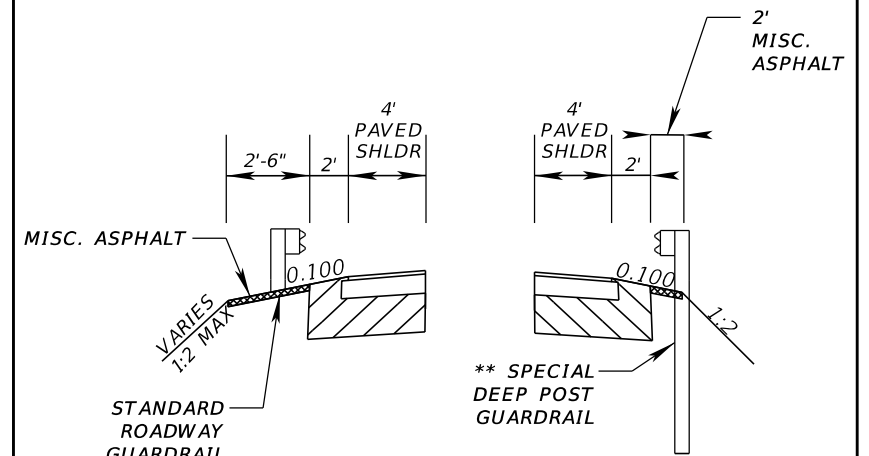
*N. FORT CHRISTMAS RD.
DRAINAGE MAP RT DITCH*

SHEET
NO.

4

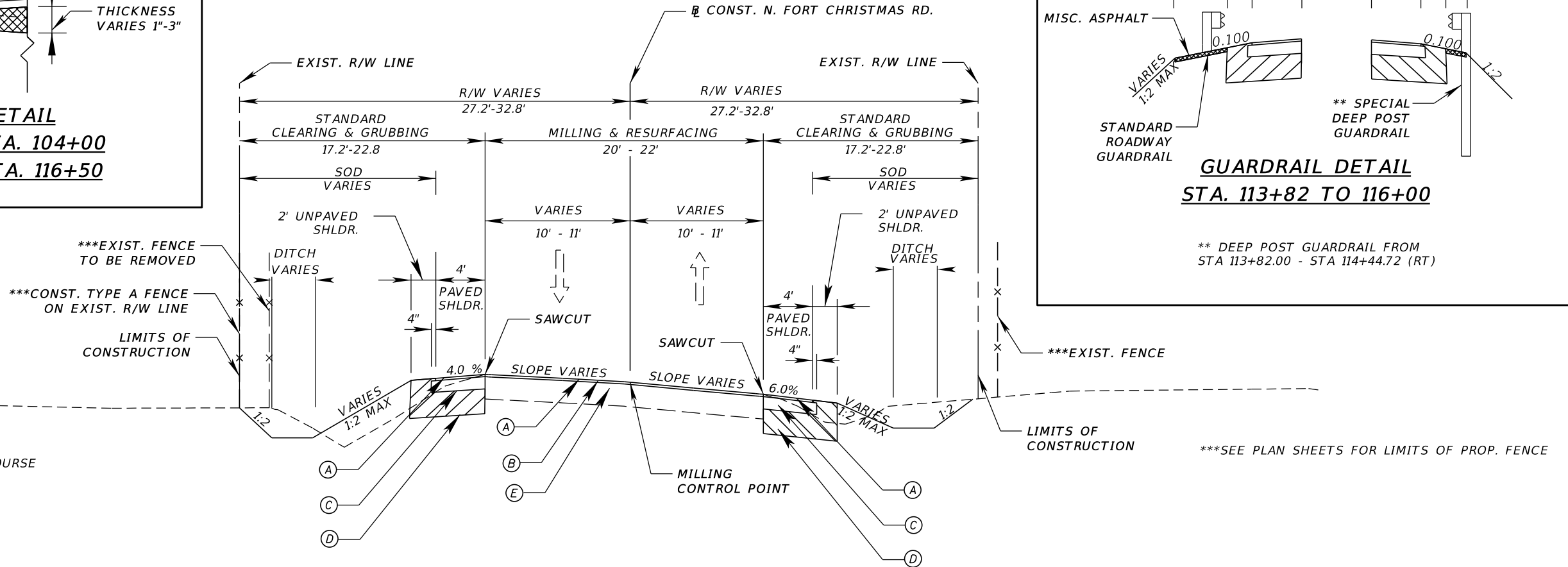


OVERBUILD DETAIL
STA. 101+00 TO STA. 104+00
STA. 114+00 TO STA. 116+50
 N.T.S.



GUARDRAIL DETAIL
STA. 113+82 TO 116+00

** DEEP POST GUARDRAIL FROM
 STA 113+82.00 - STA 114+44.72 (RT)



TYPICAL SECTION - SHOULDER IMPROVEMENTS
N. FORT CHRISTMAS RD.
STA. 100+10 TO 105+00
STA 113+82 TO 116+50
 N.T.S.

- LEGEND**
- (A) ASPHALTIC CONCRETE FRICTION COURSE (TRAFFIC C) (FC-12.5) (1.25")
 - (B) TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.25")
 - (C) SOIL CEMENT BASE (300 PSI) (5")
 - (D) TYPE B STABILIZATION (LBR 40) (12")
 - (E) TYPE SP OVERBUILD (TRAFFIC C) THICKNESS VARIES (1" -3")

TRAFFIC DATA

CURRENT YEAR = 2017 AADT = 1800
 ESTIMATED OPENING YEAR = 2018 AADT = 1800
 ESTIMATED DESIGN YEAR = 2038 AADT = 2250
 K=9.5% D=52.5% T=5.7%
 DESIGN SPEED = 40 MPH

MILLING FOR DEPTH

MILL EXISTING PAVEMENT FOR DEPTH (2.5")

OVERBUILD

TYPE SP OVERBUILD (TRAFFIC C)
 THICKNESS VARIES (1" -3")

RESURFACING

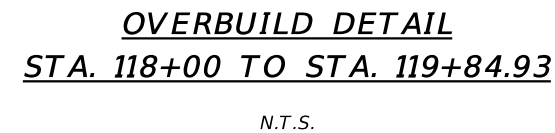
TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.25")
 AND ASPHALTIC CONCRETE FRICTION COURSE (TRAFFIC C) (FC-9.5) (1.25")

SHOULDER CONSTRUCTION

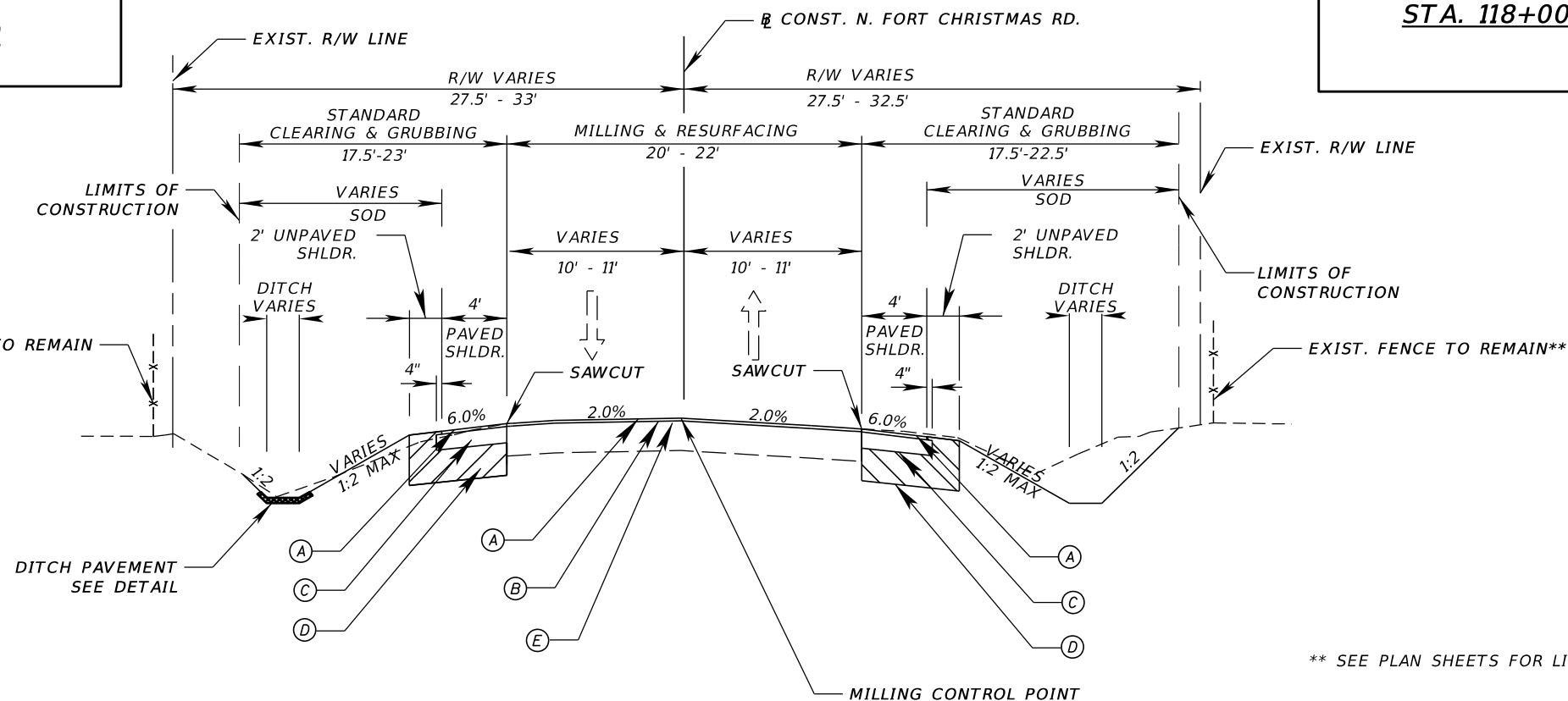
*TYPE B STABILIZATION (MIN. LBR 40) (12")
 *SOIL CEMENT BASE (PLANT MIX) (PRIMED) (300 PSI) (5")
 ASPHALTIC CONCRETE FRICTION COURSE (TRAFFIC C) (FC-9.5) (1.25")

* AT CONTRACTOR'S OPTION, TYPE B STABILIZATION AND SOIL CEMENT MAY BE SUBSTITUTED WITH 6" BLACK ASPHALT BASE AT NO ADDITIONAL COMPENSATION.

REVISIONS				 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		N. FORT CHRISTMAS RD. TYPICAL SECTION		SHEET NO. 5
DATE	DESCRIPTION	DATE	DESCRIPTION					



- (A) ASPHALTIC CONCRETE FRICTION COURSE
(TRAFFIC C) (FC-9.5) (1.25")
- (B) TYPE SP STRUCTURAL COURSE **EX
(TRAFFIC C) (1.25")
- (C) SOIL CEMENT BASE
(300 PSI) (5")
- (D) TYPE B STABILIZATION
(LBR 40) (12")
- (E) TYPE SP OVERBUILD (TRAFFIC C)
THICKNESS VARIES (1" -3")



CURRENT YEAR = 2017 AADT = 1800
ESTIMATED OPENING YEAR = 2018 AADT = 1800
ESTIMATED DESIGN YEAR = 2038 AADT = 2250
K=9.5% D=52.5% T=5.7%
DESIGN SPEED = 40 MPH

*TYPE B STABILIZATION (MIN. LBR 40) (12")
 *SOIL CEMENT BASE (PLANT MIX) (PRIMED) (300 PSI) (5")
 ASPHALTIC CONCRETE FRICTION COURSE (TRAFFIC C) (FC-9.5) (1.25")

* AT CONTRACTOR'S OPTION, TYPE B STABILIZATION AND SOIL CEMENT MAY BE SUBSTITUTED WITH 6" BLACK ASPHALT BASE AT NO ADDITIONAL COMPENSATION.

N.T.S.

MILL EXISTING PAVEMENT FOR DEPTH (2.5")
RESURFACE WITH TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.25")
AND ASPHALTIC CONCRETE FRICTION COURSE (TRAFFIC C) (FC-9.5) (1.25")

TYPE SP OVERBUILD (TRAFFIC C)
THICKNESS VARIES (1" -3")

AVCON

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



4/5/2019

11:46:05 AM

T:\2017\2017.080.01 - Ft Christmas\CAD\Roadway\TYPED01.dwg

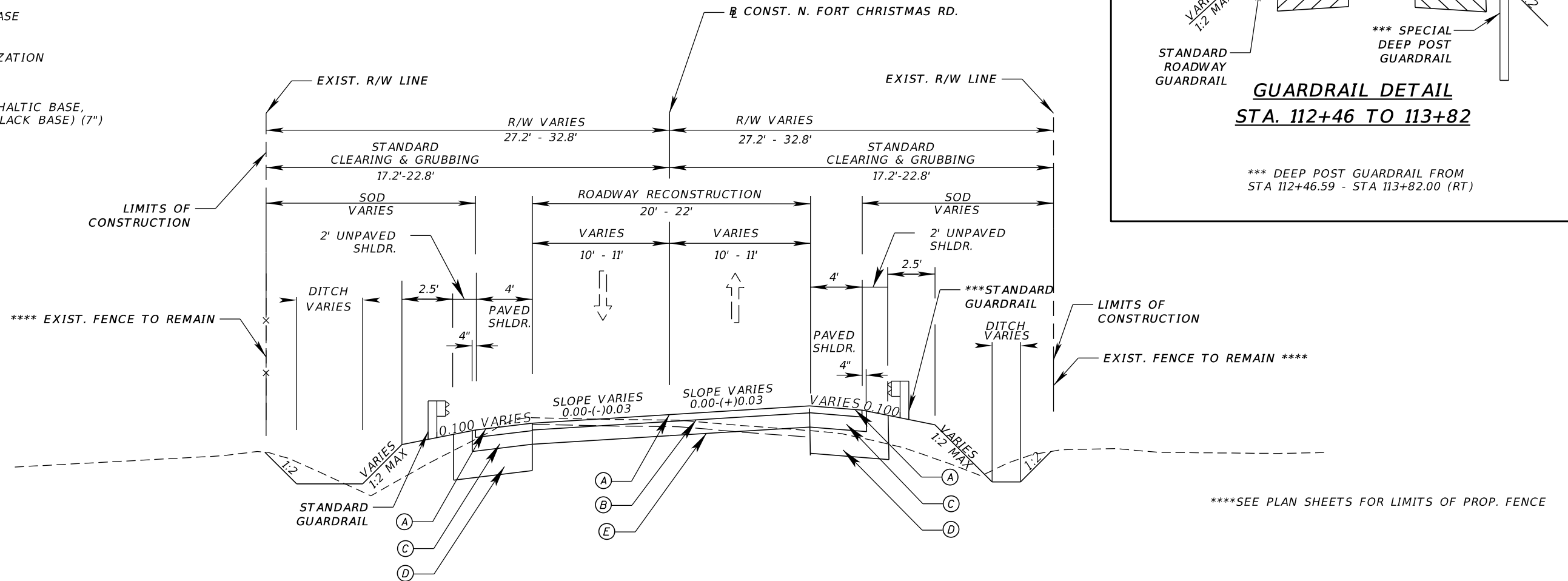
N. FORT CHRISTMAS RD.
TYPICAL SECTION

SHEET
NO.

6

LEGEND

- (A) ASPHALTIC CONCRETE FRICTION COURSE (TRAFFIC C) (FC-9.5) (1.25")
- (B) TYPE SP STRUCTURAL COURSE (TRAFFIC C) (1.25")
- (C) SOIL CEMENT BASE (300 PSI) (5")
- (D) TYPE B STABILIZATION (LBR 40) (12")
- (E) SUPERPAVE ASPHALTIC BASE, TYPE B - 12.5 (BLACK BASE) (7")



TRAFFIC DATA

CURRENT YEAR = 2017 AADT = 1800
 ESTIMATED OPENING YEAR = 2018 AADT = 1800
 ESTIMATED DESIGN YEAR = 2038 AADT = 2250
 K=9.5% D=52.5% T=5.7%
 DESIGN SPEED = 40 MPH

TYPICAL SECTION - ROADWAY RECONSTRUCTION
N. FORT CHRISTMAS RD.
STA 111+50 TO 113+82
 N.T.S.

SHOULDER CONSTRUCTION

*TYPE B STABILIZATION (MIN. LBR 40) (12")
 *SOIL CEMENT BASE (PLANT MIX) (PRIMED) (300 PSI) (5")
 ASPHALTIC CONCRETE FRICTION COURSE (TRAFFIC C) (FC-9.5) (1.25")

* AT CONTRACTOR'S OPTION, TYPE B STABILIZATION AND SOIL CEMENT
 MAY BE SUBSTITUTED WITH 6" BLACK ASPHALT BASE AT NO
 ADDITIONAL COMPENSATION.

ROADWAY RECONSTRUCTION

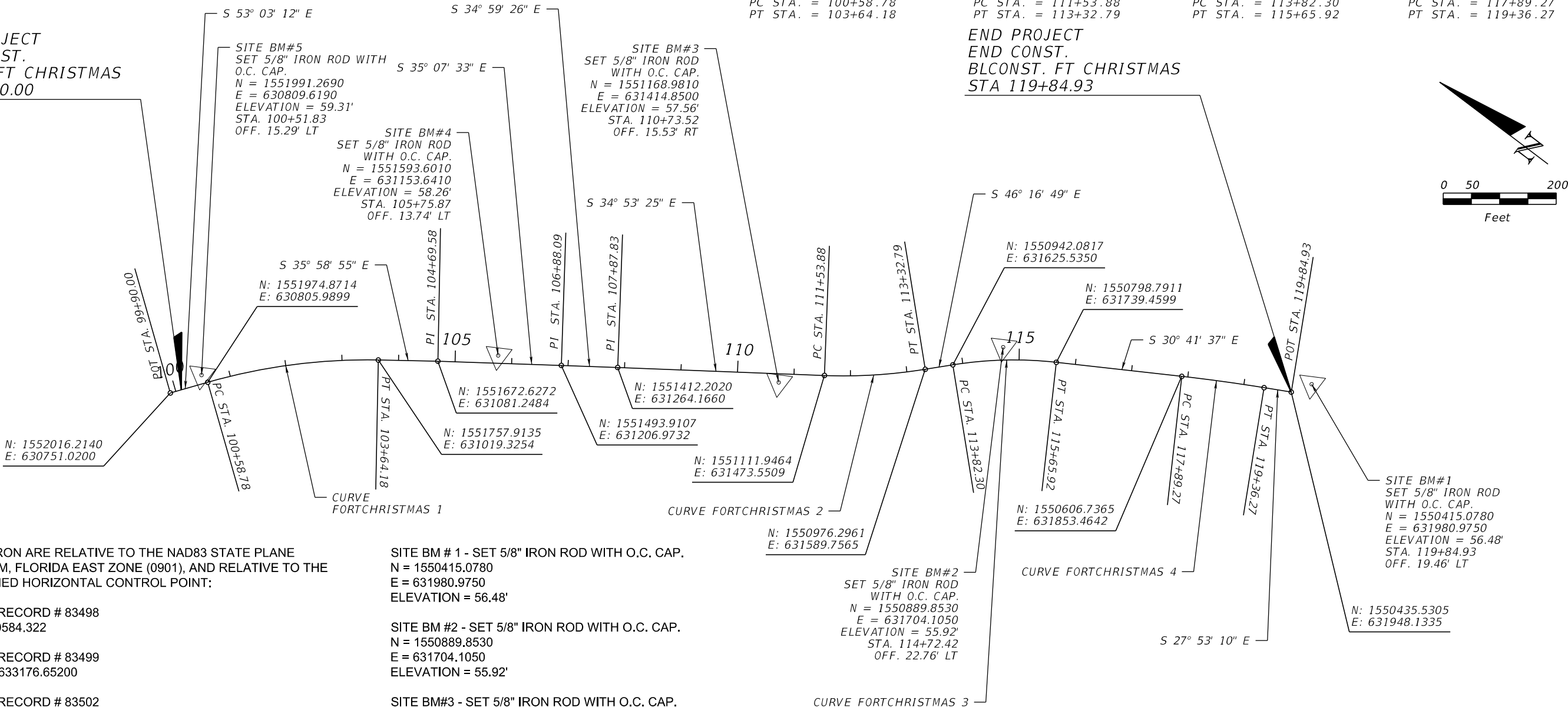
SUPERPAVE ASPHALTIC CONCRETE (TRAFFIC LEVEL C) (1.25")
 ASPHALTIC CONCRETE FRICTION COURSE (TRAFFIC C) (FC-9.5) (1.25")
 SUPERPAVE ASPHALTIC BASE, TYPE B - 12.5 (BLACK BASE) (7")

REVISIONS				 AVCON, INC. 5555 MICHIGAN STREET, SUITE 200 ORLANDO, FLORIDA 32822-2779 PHONE: (407) 599-1122 FAX: (407) 599-1133 www.avconinc.com		N. FORT CHRISTMAS RD. TYPICAL SECTION		SHEET NO. 7
DATE	DESCRIPTION	DATE	DESCRIPTION					
				ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221				

CURVE DATA FTCHRISTMAS_1	CURVE DATA FTCHRISTMAS_2	CURVE DATA FTCHRISTMAS_3	CURVE DATA FTCHRISTMAS_4
PI STA. = 102+12.62	PI STA. = 112+43.63	PI STA. = 114+74.68	PI STA. = 118+62.78
Δ = 17° 04' 17" (RT)	Δ = 11° 23' 24" (LT)	Δ = 15° 35' 12" (RT)	Δ = 2° 48' 27" (RT)
D = 5° 35' 23"	D = 6° 21' 58"	D = 8° 29' 18"	D = 1° 54' 35"
T = 153.84	T = 89.75	T = 92.38	T = 73.51
L = 305.40	L = 178.91	L = 183.63	L = 147.00
R = 1,025.00	R = 900.00	R = 675.00	R = 3,000.00
PC STA. = 100+58.78	PC STA. = 111+53.88	PC STA. = 113+82.30	PC STA. = 117+89.27
PT STA. = 103+64.18	PT STA. = 113+32.79	PT STA. = 115+65.92	PT STA. = 119+36.27

BEGIN PROJECT
BEGIN CONST.
BLCONST. FT CHRISTMAS
STA 100+10.00

END PROJECT
END CONST.
BLCONST. FT CHRISTMAS
STA 119+84.93



SURVEYOR'S NOTE

1. ALL BEARINGS HERON ARE RELATIVE TO THE NAD83 STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE (0901), AND RELATIVE TO THE FOLLOWING PUBLISHED HORIZONTAL CONTROL POINT:

CERTIFIED CORNER RECORD # 83498
N: 1555528.742 E: 630584.322

CERTIFIED CORNER RECORD # 83499
N: 1555548.81700 E: 633176.65200

CERTIFIED CORNER RECORD # 83502
N: 1550377.33000 E: 633401.62000

CERTIFIED CORNER RECORD # 83503
N: 1550369.62000 E: 630775.46000

CERTIFIED CORNER RECORD # 83504
N: 1553019.07000 E: 630675.76000

CERTIFIED CORNER RECORD # 83506
N: 1555503.53600 E: 627927.15300

2. ALL ELEVATIONS SHOWN HEREON ARE IN 88 DATUM AND REFERENCED TO THE FOLLOWING BENCHMARKS:

S-750-008 RECOVERED "SQUARE" CUT IN CENTERLINE OF 1' WIDE BRICK HEADWALL ON NORTHEAST CORNER OF FORT CHRISTMAS ROAD AND LAZY H LANE, WITH 15" RCP; SOUTH MOST OF TWO HEADWALLS, TO DRIVE #4443 LAZY H LANE.
ELEVATION = 63.05'

SITE BM # 1 - SET 5/8" IRON ROD WITH O.C. CAP.
N = 1550415.0780
E = 631980.9750
ELEVATION = 56.48'

SITE BM #2 - SET 5/8" IRON ROD WITH O.C. CAP.
N = 1550889.8530
E = 631704.1050
ELEVATION = 55.92'

SITE BM#3 - SET 5/8" IRON ROD WITH O.C. CAP.
N = 1551168.9810
E = 631414.8500
ELEVATION = 57.56'

SITE BM#4 - SET 5/8" IRON ROD WITH O.C. CAP.
N = 1551593.6010
E = 631153.6410
ELEVATION = 58.26'

SITE BM#5 - SET 5/8" IRON ROD WITH O.C. CAP.
N = 1551991.2690
E = 630809.6190
ELEVATION = 59.31'

SURVEY NOTES

1. NO IMPROVEMENTS ABOVE OR BELOW GROUND, OTHER THAN THOSE SHOWN, WERE LOCATED.
2. MEASUREMENT METHODS FOR THIS SURVEY MEET THE REQUIREMENTS OF CHAPTER 5J-17 OF THE FLORIDA ADMINISTRATIVE CODE FOR LAND SURVEYING.
3. ANY UNDERGROUND UTILITIES SHOWN HEREON WERE LOCATED BY SUNSHINE STATE ONE CALL, VIA TICKET # 057402799, AS REQUESTED ON 2/26/14.
4. THE SOURCE BENCHMARK USED IS BASED ON ORANGE COUNTY 88 DATUM - BENCHMARK S-750-008 - RECOVERED "SQUARE" CUT IN CENTERLINE OF 1' WIDE BRICK HEADWALL ON NORTHEAST CORNER OF FORT CHRISTMAS ROAD AND LAZY H LANE, WITH 15" RCP; SOUTH MOST OF TWO HEADWALLS, TO DRIVE #4443 LAZY H LANE. ELEVATION = 63.05'
5. ALL RIGHT OF WAY INFORMATION SHOWN HEREON WAS DETERMINED BY FOUND MONUMENTATION, RECORDED PLATS, DEEDS OF RECORD, OR RECORDED RIGHT OF WAY MAPS.
6. THIS SURVEY WAS PERFORMED WITHOUT THE BENEFIT OF AN ABSTRACT, TITLE SEARCH, TITLE OPINION, OR TITLE COMMITMENT. A TITLE SEARCH MAY REVEAL ADDITIONAL INFORMATION AFFECTING THE PARCELS AS SHOWN.

REVISIONS				 ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221		N. FORT CHRISTMAS RD. PROJECT LAYOUT		SHEET NO. 9
DATE	DESCRIPTION	DATE	DESCRIPTION					

1. BEARINGS AND COORDINATES SHOWN HEREON ARE RELATIVE TO THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE (0901), NORTH AMERICAN DATUM OF 1983/1990 ADJUSTMENT, BASED ON TIES TO EXISTING ORANGE COUNTY CONTROL MONUMENTS. ELEVATIONS ARE RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH AND CONFORM TO THE MOST STRINGENT REQUIREMENT OF THE PROJECT SPECIFICATION, THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD PLANS FOR ROAD AND BRIDGE CONSTRUCTION, DATED 2018-2019 AND SUPPLEMENTS THERETO, AND ORANGE COUNTY ROAD CONSTRUCTION SPECIFICATIONS.

3. SUBSURFACE INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FOR USE IN ESTABLISHING DESIGN CRITERIA FOR THE PROJECT. THE ACCURACY OF THIS INFORMATION IS NOT GUARANTEED AND IS NOT TO BE CONSTRUED AS PART OF THE PLANS GOVERNING CONSTRUCTION OF THE PROJECT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INQUIRE OF THE ENGINEER IF ADDITIONAL INFORMATION IS AVAILABLE, TO MAKE ARRANGEMENTS TO REVIEW SAME PRIOR TO BIDDING, AND TO MAKE HIS OWN DETERMINATION AS TO ALL SUBSURFACE CONDITIONS.

4. THE DISPOSAL OF EXCESS EARTHWORK MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. APPROVALS OF DISPOSAL SITES SHALL BE OBTAINED FROM ORANGE COUNTY PRIOR TO DISPOSAL. ALL EXCESS MATERIAL IS THE PROPERTY OF THE CONTRACTOR.

5. ALL TREES TO BE REMOVED WILL BE AT THE DISCRETION OF THE ENGINEER OR HIS REPRESENTATIVE. COST OF TREE REMOVAL INCLUDED UNDER PAY ITEM NO. 110-1-1. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ADDITIONAL TREES WITHIN RIGHT OF WAY THAT ENGINEER DESIGNATES FOR REMOVAL

6. ALL DISTURBED AREAS TO BE SODDED AND SHALL MATCH EXISTING TYPE OF SOD, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. SOD SHALL BE PEGGED IF THE SLOPE IS 3:1 OR STEEPER.

7. INSTALL A 4" MUCK BLANKET OR TOPSOIL TREATMENT ON ALL PERMANENT GRASS AREAS. COST TO BE INCLUDED IN CONTRACT UNIT PRICE FOR SOD.

8. ALL OFFSETS SHOWN ARE TO PROPOSED BASELINE OF CONSTRUCTION

9. THE CONTRACTOR SHALL PERFORM HIS WORK IN ACCORDANCE WITH REQUIREMENTS OF THE VARIOUS PERMITS INCLUDED IN THE BID SPECIFICATIONS. PAYMENT IS INCLUDED IN THE BID PRICE FOR SECTION 104; "PREVENTION, CONTROL, AND ABATEMENT OF EROSION AND WATER POLLUTION". ENVIRONMENTAL CONTROLS SHALL BE USED AS DESIGNATED IN THE STORMWATER POLLUTION & PREVENTION PLAN AND/OR DESIGNATED BY THE ENGINEER.

10. THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS BASED ON AVAILABLE RECORDS AND SURVEYS BUT IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO AND IS RESPONSIBLE FOR COORDINATING UTILITY RELOCATION WITH PROJECT CONSTRUCTION. PRIOR TO ORDERING DRAINAGE STRUCTURES, THE CONTRACTOR SHALL DETERMINE IF DRAINAGE/UTILITY CONFLICTS EXIST. INFORMATION ON CONFLICTS IS TO BE SUBMITTED TO THE ENGINEER AS SOON AS POSSIBLE AFTER DISCOVERY FOR RESOLUTION.

11. PRIOR TO COMMENCEMENT OF WORK CONTRACTOR SHALL CALL SUNSHINE ONE CALL 48 HOURS IN ADVANCE OF PERFORMING ANY UTILITY ADJUSTMENTS OR RELOCATIONS. SUNSHINE ONE CALL PHONE NUMBER IS 811.

UTILITY OWNER

AT&T DISTRIBUTION

DUKE ENERGY

TELEPHONE NUMBER

(407) 351-8180

(352) 459-4671

21. ANY U.S.C. AND G.S. MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF IN DANGER OF DAMAGE, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, ORANGE COUNTY SURVEY SECTION 407-836-7940 AND BOTH SHALL NOTIFY:
STATE GEODETIC ADVISOR
3900 COMMONWEALTH BOULEVARD, SUITE 309, & COUNTY SURVEYOR
4200 S. JOHN YOUNG PARKWAY
TALLAHASSEE, FL ORLANDO, FL
850-245-2606 407-836-7940

22. PUBLIC LAND CORNERS WITHIN THE LIMITS OF CONSTRUCTION SHALL BE PROTECTED. IF A CORNER MONUMENT IS IN DANGER OF BEING DESTROYED OR DISTURBED, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER AND THE COUNTY SURVEYOR, WITHOUT DELAY, BY TELEPHONE 407-836-7940. THE CONTRACTOR SHALL PROVIDE WRITTEN FOLLOW UP CONFIRMATION WITHIN 48 HOURS OF TELEPHONE NOTIFICATION.

23. PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO ORANGE COUNTY HIGHWAY CONSTRUCTION DEPARTMENT A SET OF FIELD NOTES VERIFYING THE BENCHMARK ELEVATIONS AND THE REFERENCE POINT TIES SHOWN ON THE TITLE SHEET AND PLAN AND PROFILE SHEETS, AND/OR A SET OF FIELD NOTES FOR ALL ADDITIONAL BENCHMARK AND REFERENCE POINT TIES PROPOSED TO BE USED IN CONSTRUCTING THE PROJECT WITH THEIR LOCATION, DESCRIPTION AND ELEVATION, BASED ON ORANGE COUNTY DATUM. ALL SUBMITTALS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA.

24. WITHIN 21 CALENDAR DAYS AFTER NOTICE TO PROCEED, THE CONTRACTOR SHALL STAKE THE RIGHT-OF-WAY AT 100 FT. INTERVALS AND AT RIGHT-OF-WAY BREAKS WITH STATIONING SHOWN ON THE STAKES. NO INVOICE FOR PAYMENT WILL BE PROCESSED UNTIL THE RIGHT-OF-WAY HAS BEEN STAKED TO THE SATISFACTION OF THE ENGINEER. PAYMENT IS INCLUDED IN THE BID PRICE FOR ITEM NO. 101-1 "MOBILIZATION" (LS).

25. THE CONTRACTOR SHALL RELOCATE EXISTING TRAFFIC SIGNS AS REQUIRED DURING CONSTRUCTION. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS TO FACILITATE WAY FINDING FOR EMERGENCY VEHICLES. SIGNS WHICH ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR AT NO COST TO THE COUNTY. THE CONTRACTOR SHALL REMOVE AND STORE EXISTING TRAFFIC SIGNS THAT ARE NOT USED DURING CONSTRUCTION. THE CONTRACTOR SHALL RE-INSTALL THE STORED SIGNS AS SHOWN ON THE SIGNING PLANS OR AS DIRECTED BY THE ENGINEER. SIGNS NOT RE-INSTALLED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND DISPOSED OF PROPERLY. COST OF REMOVAL AND STORAGE, RE-INSTALLATION, RELOCATION AND/OR DISPOSAL SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

26. ALL EXCAVATIONS SHALL BE REQUIRED TO CONFORM TO THE PROVISION OF PART IV OF CHAPTER 553.60, F.S., ALSO KNOWN AS THE "TRENCH SAFETY ACT", TO PROTECT EXISTING PAVEMENT, STRUCTURES, FOUNDATIONS, AND CONSTRUCTION PERSONNEL DURING CONSTRUCTION OF THE PROJECT.

27. CONTRACTOR SHALL MAINTAIN UNINTERRUPTED ACCESS TO ALL DRIVEWAYS AND SIDE STREETS AT ALL TIMES AND IS TO NOTIFY PROPERTY OWNERS IN WRITTEN NOTIFICATION FIVE DAYS PRIOR TO STARTING CONSTRUCTION. COST INCLUDED UNDER PAY ITEM NO. 101-1, MOBILIZATION.

28. ALL PRIVATE AND PUBLIC PROPERTY AFFECTED BY THIS WORK SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITION. COST TO BE INCIDENTAL TO OTHER CONSTRUCTION AND NO EXTRA COMPENSATION WILL BE ALLOWED.

29. HAND EXCAVATION MAY BE REQUIRED AT EARTHWORK LOCATIONS ADJACENT TO R/W TO PREVENT ENCROACHMENT ON PRIVATE PROPERTY.

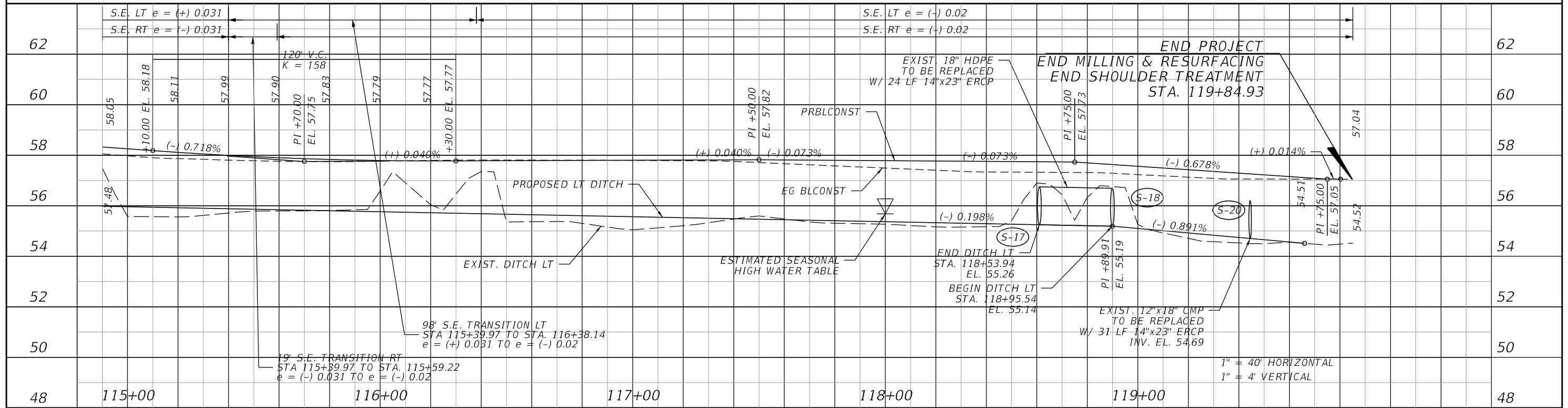
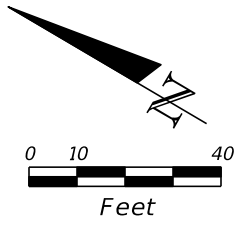
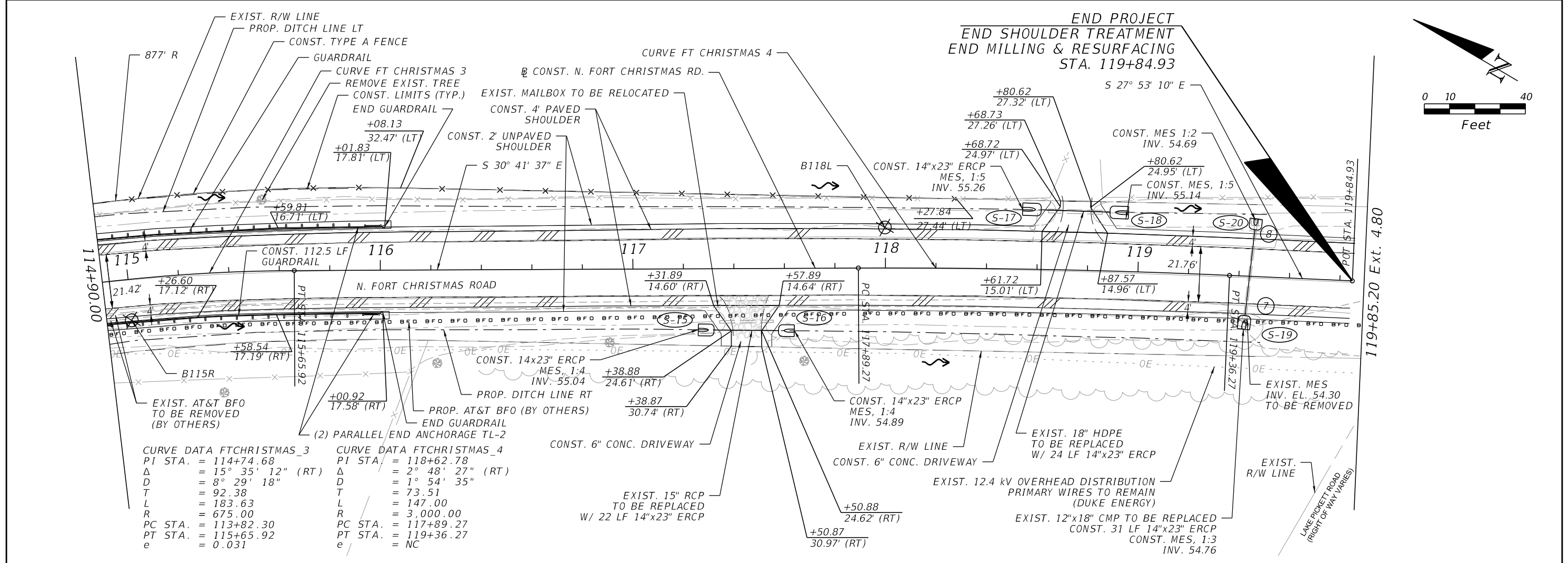
30. ANY ADDITIONAL EXISTING FENCE NOT ALREADY IDENTIFIED TO BE REPLACED THAT IS IMPACTED BY CONSTRUCTION SHALL BE REPLACED AT CONTRACTOR'S EXPENSE.
- | REVISIONS | | | |  <div>AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE: (407) 599-1122
FAX: (407) 599-1133
www.avconinc.com</div> |  | N. FORT CHRISTMAS RD.
GENERAL NOTES | SHEET NO. |
|-----------|-------------|------|-------------|---|---|--|-----------|
| DATE | DESCRIPTION | DATE | DESCRIPTION | | | | 10 |
| | | | | ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221 | | | |

nJohnson

4/5/2019

11:46:07 AM

T:\2017\2017.080.01 - Ft ChrIstmas\CAD\Roadway\GNNTD01.DGN



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

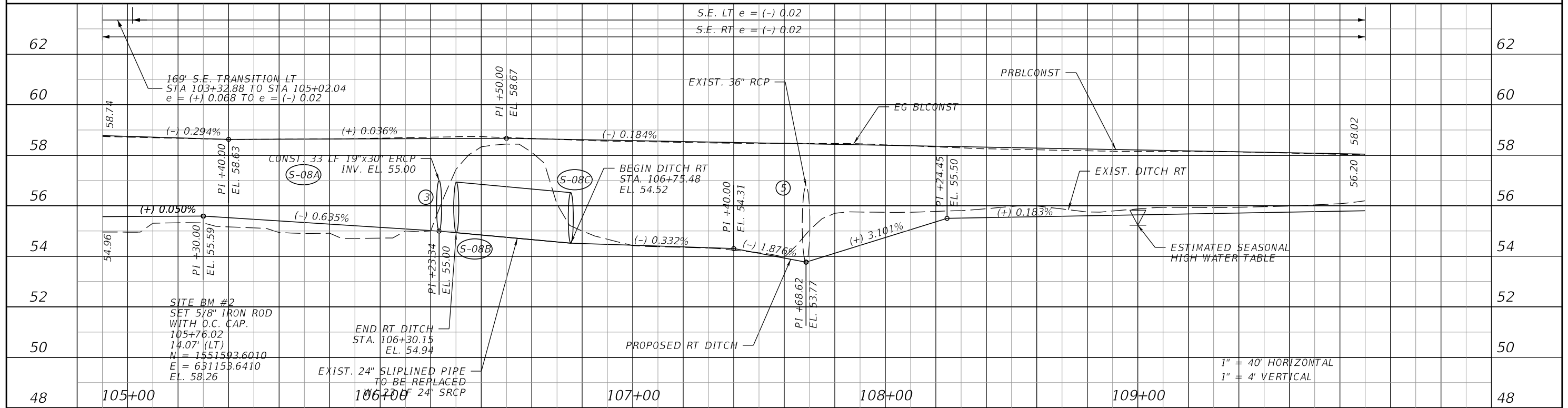
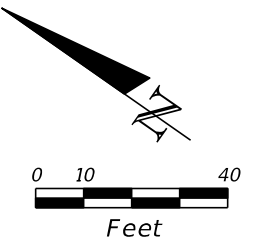
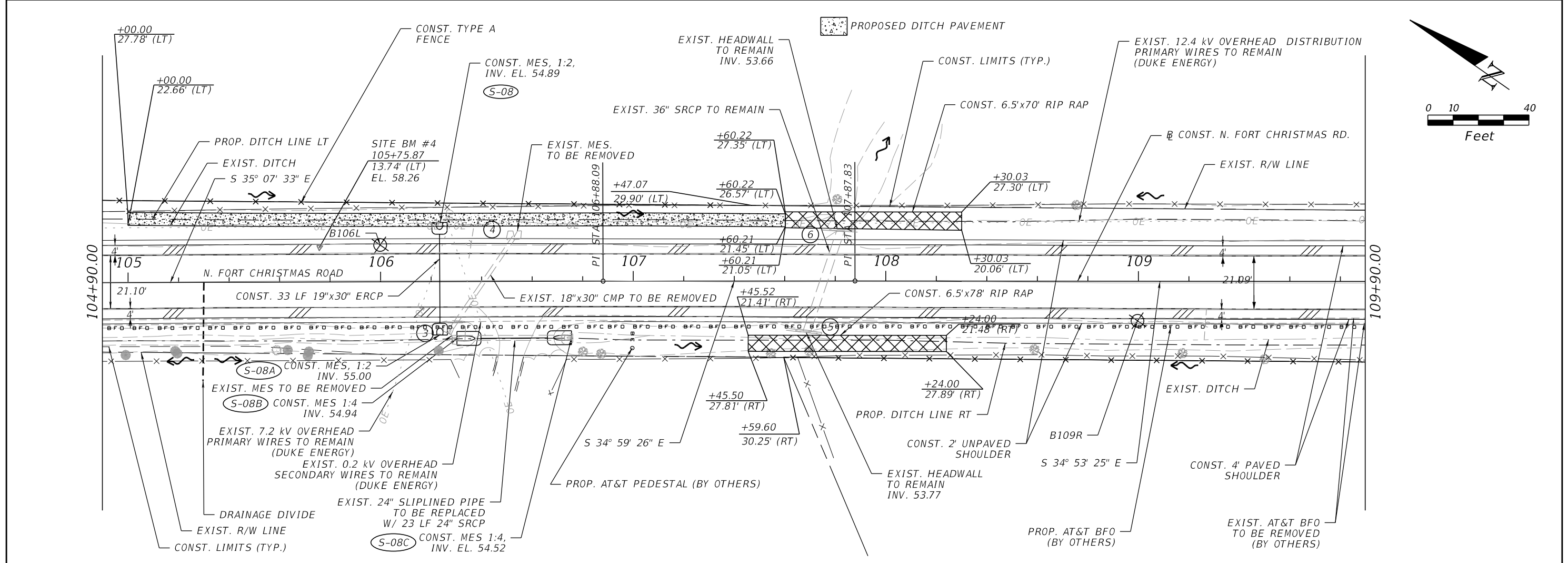
AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE: (407) 599-1122
FAX: (407) 599-1133
www.avconinc.com

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

ORANGE COUNTY
GOVERNMENT
FLORIDA

N. FORT CHRISTMAS RD.
ROADWAY PLAN & PROFILE LT

SHEET NO.
14



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

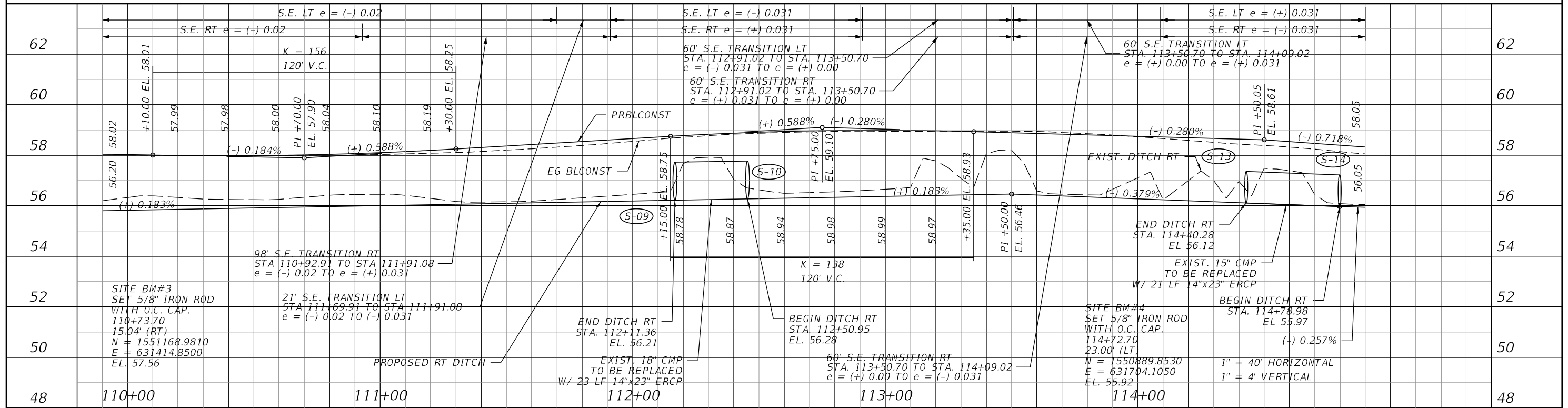
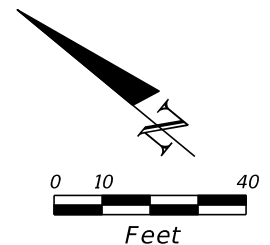
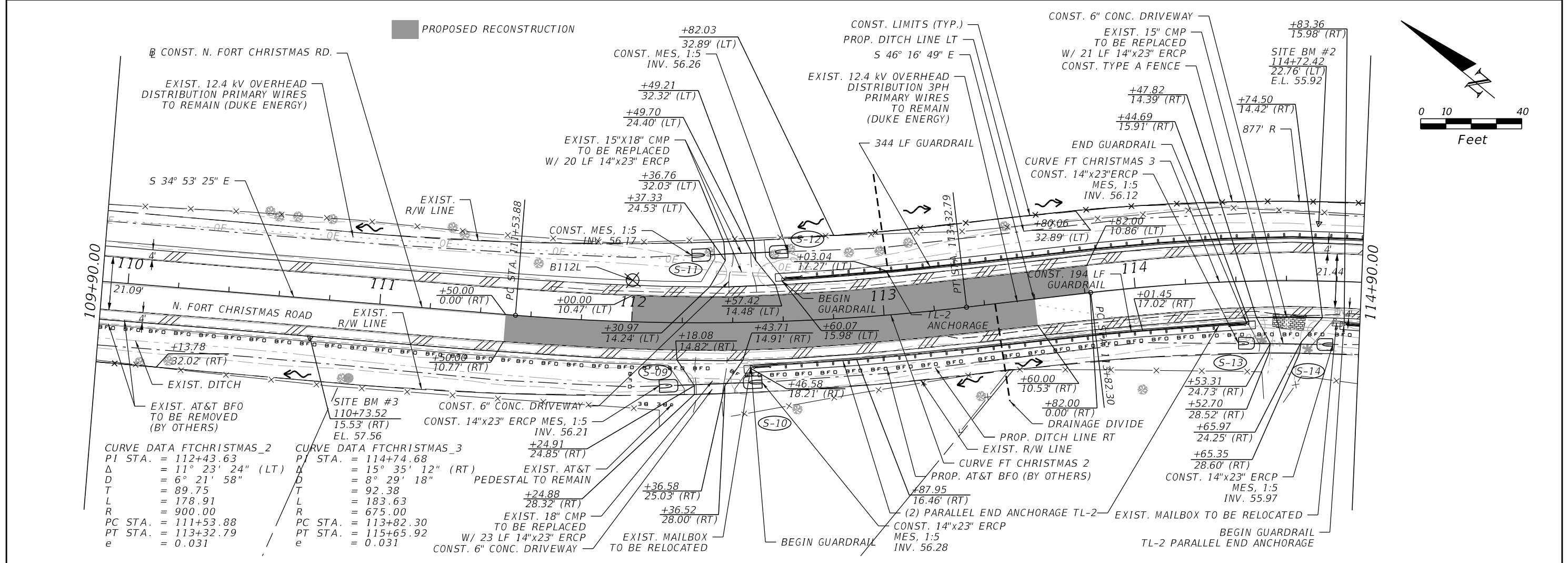
AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE: (407) 599-1122
FAX: (407) 599-1133
www.avconinc.com

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

ORANGE COUNTY
GOVERNMENT
FLORIDA

N. FORT CHRISTMAS RD.
ROADWAY PLAN & PROFILE RT

SHEET NO.
16



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

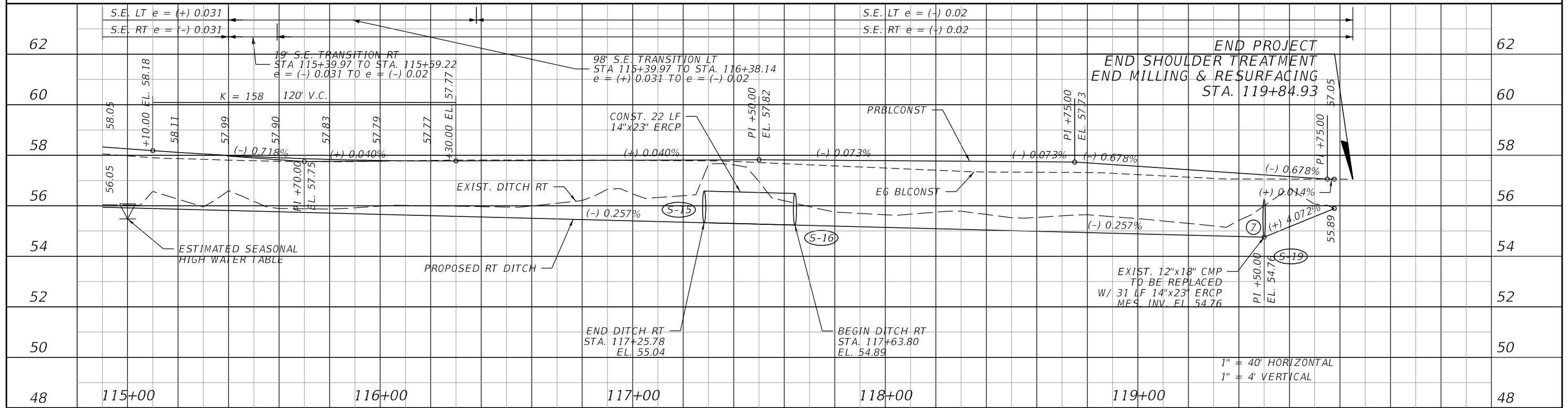
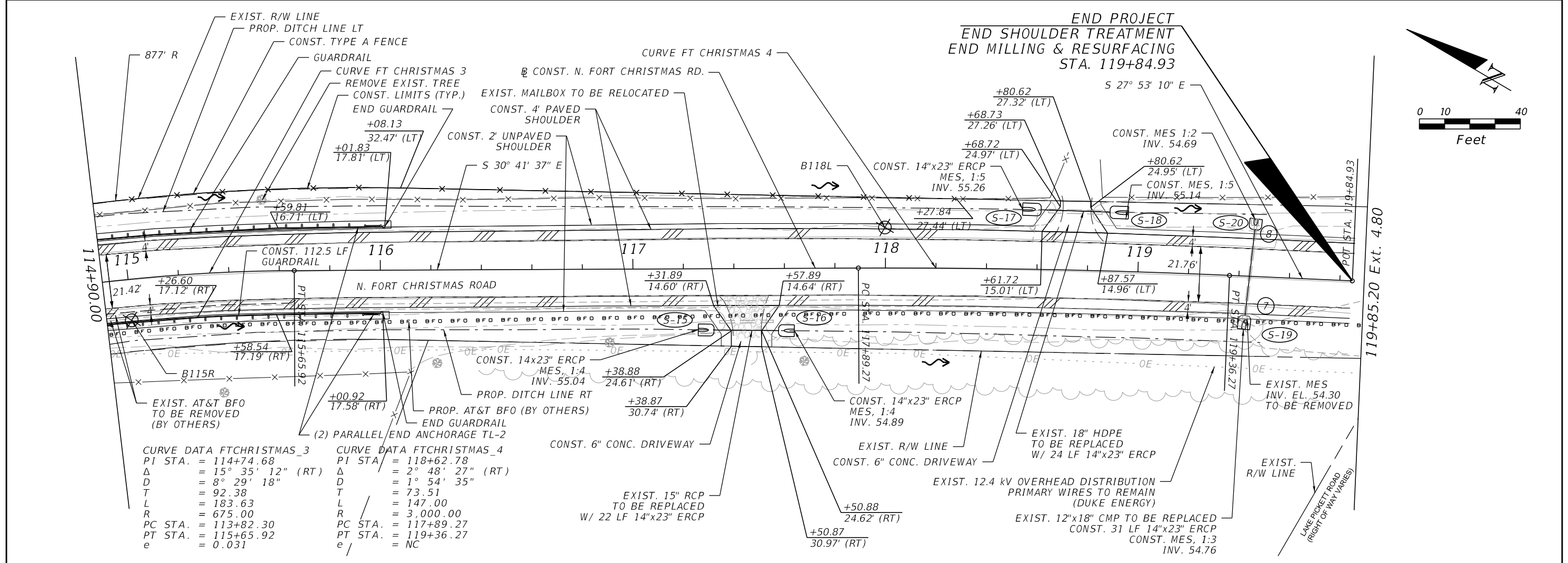
AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE: (407) 599-1122
FAX: (407) 599-1133
www.avconinc.com

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

ORANGE COUNTY
GOVERNMENT
FLORIDA

N. FORT CHRISTMAS RD.
ROADWAY PLAN & PROFILE RT

SHEET NO.
17



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

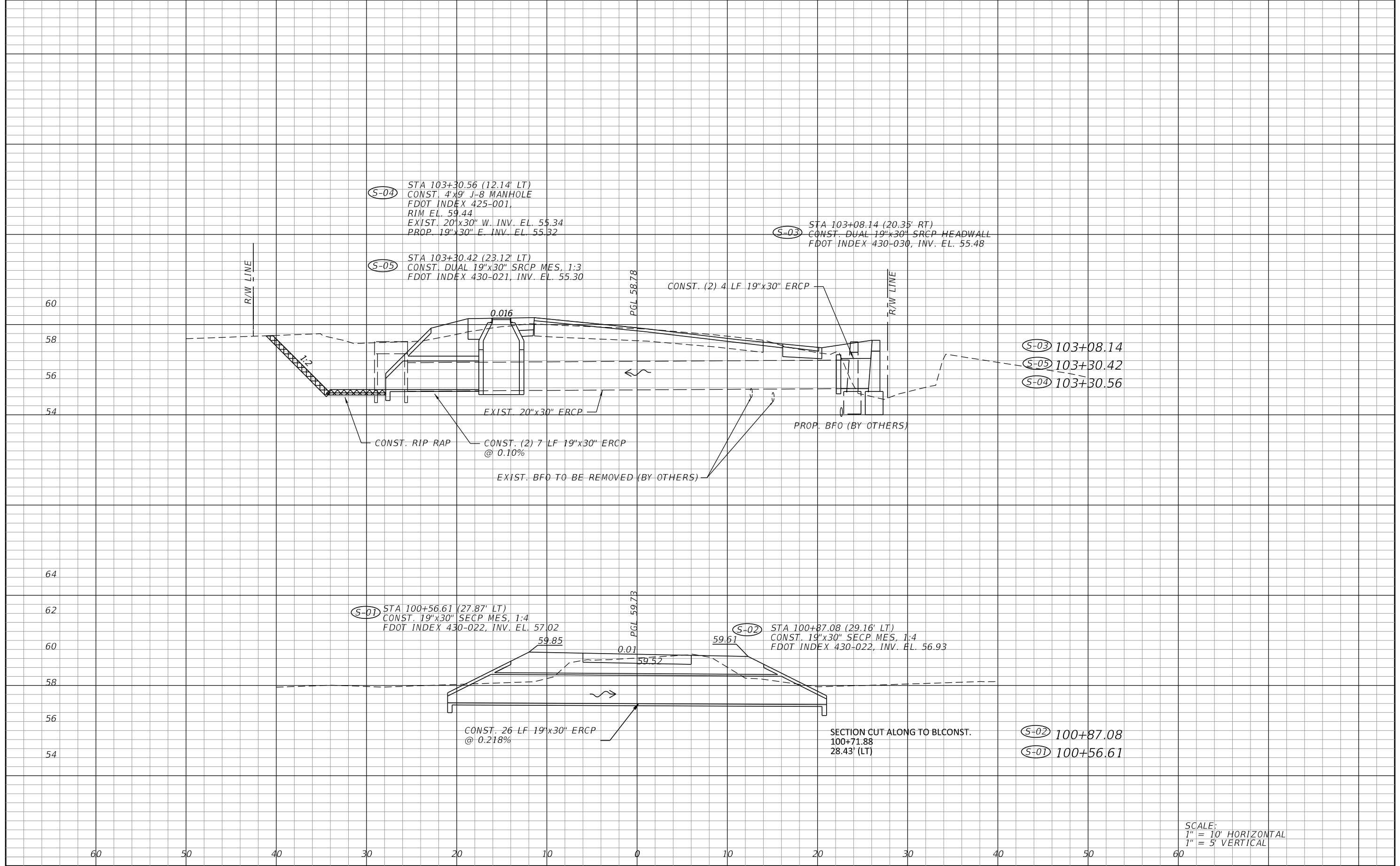
AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE: (407) 599-1122
FAX: (407) 599-1133
www.avconinc.com

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

ORANGE COUNTY
FLORIDA

N. FORT CHRISTMAS RD.
ROADWAY PLAN & PROFILE RT

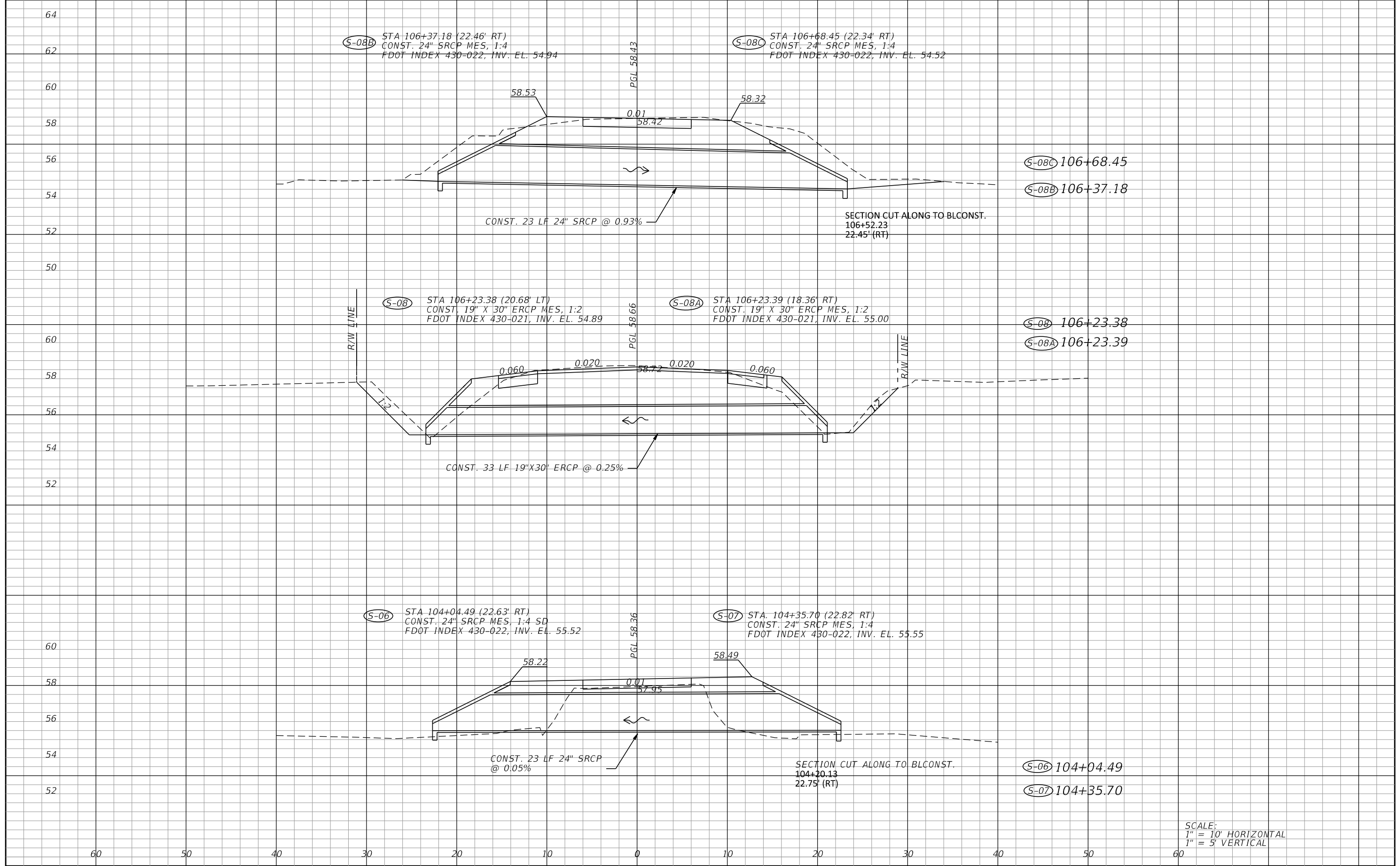
SHEET NO.
18

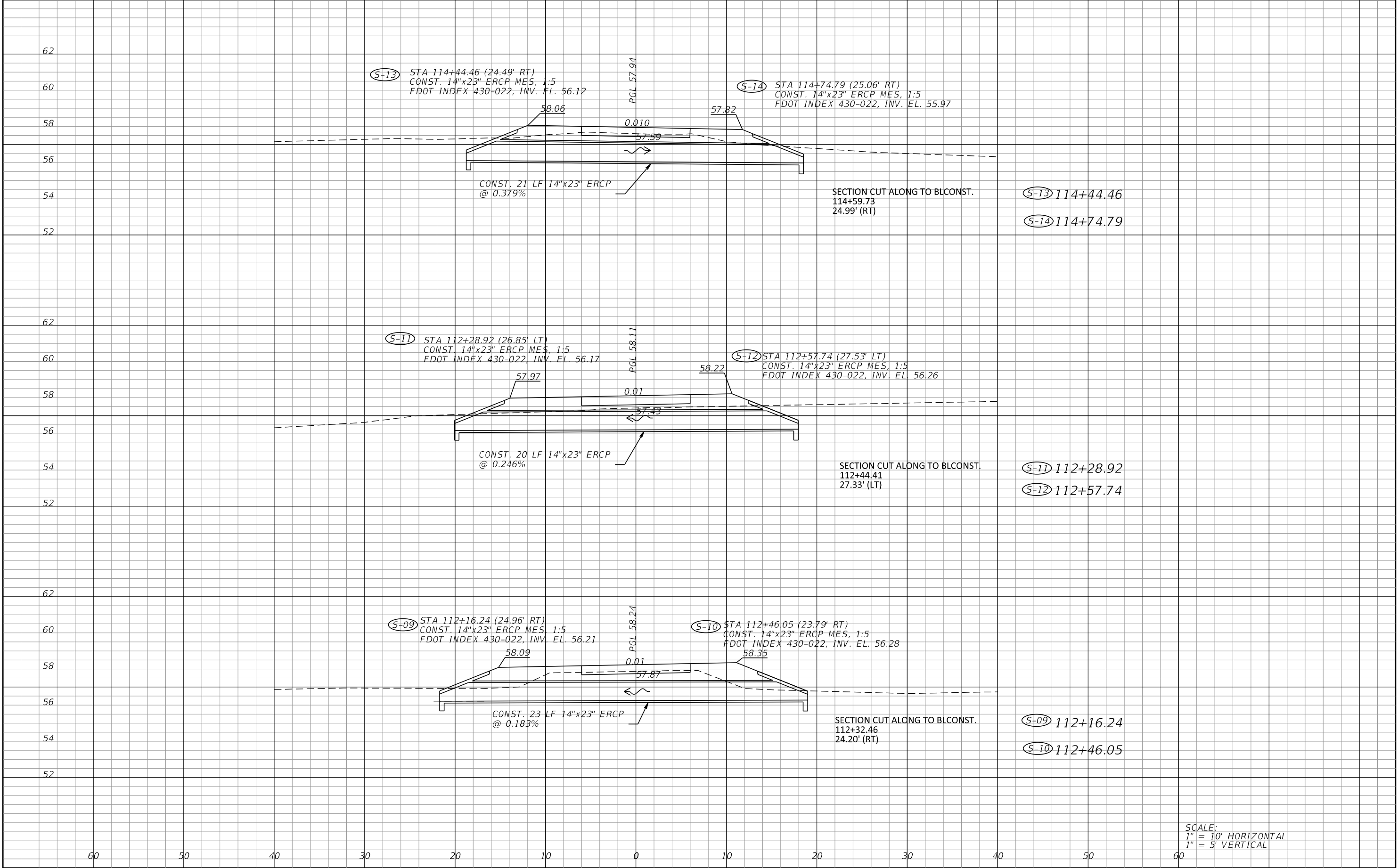


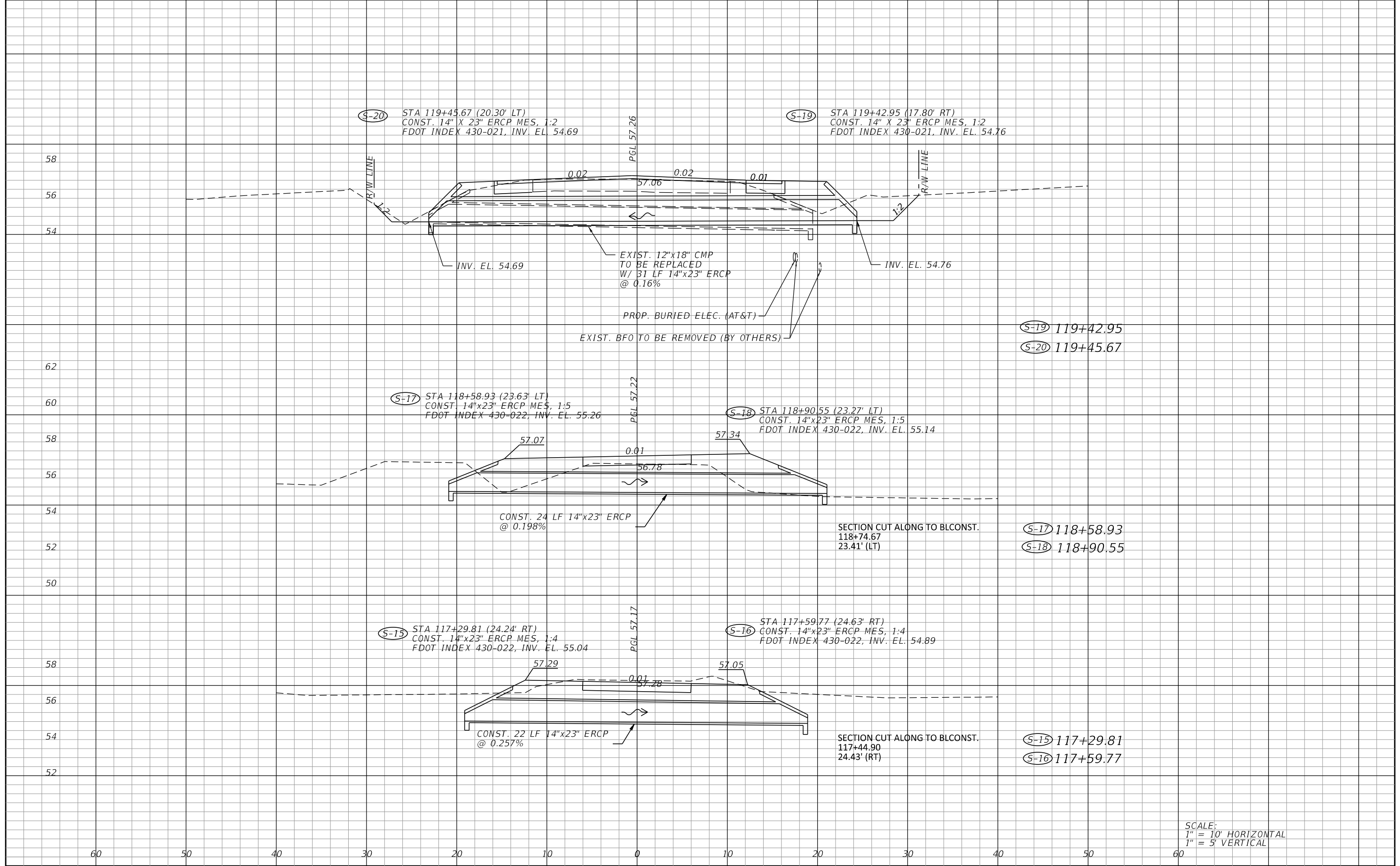
(S-03) 103+08.14
(S-05) 103+30.42
(S-04) 103+30.56

(S-02) 100+87.08
(S-01) 100+56.61

SCALE:
1" = 10' HORIZONTAL
1" = 5' VERTICAL







SCALE:
1" = 10' HORIZONTAL
1" = 5' VERTICAL

ROADWAY SOILS SURVEY
REPORT OF TESTS

TOWNSHIP: 22 SOUTH
RANGE: 32 EAST
SECTIONS: 1, 2, 12

PROJECT NO.:
ROAD NO.: NORTH FORT CHRISTMAS ROAD IMPROVEMENTS
SUBMITTED BY: ANTILLIAN ENGINEERING ASSOCIATES, INC.

DATE OF SURVEY: 04/15/17
SURVEYED BY: ANTILLIAN ENGINEERING ASSOCIATES, INC.
SURVEY BEGINS STA. NO.: 100+00
SURVEY ENDS STA. NO.: 118+00
DATE REPORTED: 04/21/17

ORGANIC CONTENT					SIEVE ANALYSIS RESULTS (% PASSING)						ATTERBERG LIMITS (%)				CORROSION TEST RESULTS				ENVIRONMENTAL CLASSIFICATION (SUBSTRUCTURE)		
STRATUM NO.	LBR VALUE	NO. OF TESTS	% ORGANIC	MOISTURE CONTENT %	NO. OF TESTS	#10 MESH	#40 MESH	#60 MESH	#100 MESH	#200 MESH	NO. OF TESTS	LIQUID LIMIT	PLASTICITY INDEX	AASHTO GROUP	DESCRIPTION	RESISTIVITY ohm-cm	CHLORIDES ppm	SULFATES ppm	pH	CONCRETE	STEEL
1	--	--	--	--	2	--	--	--	--	1-9	--	--	--	A-3	GRAY, PALE BROWN, BROWN, VERY PALE BROWN OCCASIONALLY DARK GRAY AND VERY DARK GRAY WITH ROOTS, FINE SAND (POSSIBLE EMBANKMENT FILL)	--	--	--	--	--	--
2	--	--	--	--	3	--	--	--	--	4-9	--	--	--	A-3	VERY DARK BROWN, VERY DARK GRAY, DARK BROWN, BROWN, FINE SAND, OCCASIONALLY CEMENTED	--	--	--	--	--	--
3	--	2	4-5	--	2	--	--	--	--	7-9	--	--	--	A-3	VERY DARK BROWN FINE SAND WITH ORGANICS	--	--	--	--	--	--
4	--	2	11-13	--	2	--	--	--	--	11-30	--	--	--	A-8	VERY DARK BROWN TO BLACK SILTY SAND WITH ORGANICS	--	--	--	--	--	--
5	--	--	--	--	1	--	--	--	--	16	--	--	--	A-2-4	VERY DARK BROWN, VERY DARK GRAYISH BROWN, BLACK SILTY SAND	--	--	--	--	--	--

NOTES

1. THE SYMBOL "--", IF PRESENT, REPRESENTS UNMEASURED SOIL PARAMETERS.
2. STRATA BOUNDARIES ARE APPROXIMATE AND REPRESENT SOIL STRATA AT EACH BORING LOCATION ONLY. ANY STRATA CONNECTION LINES SHOWN ARE FOR ESTIMATING EARTHWORK ONLY AND DO NOT INDICATE ACTUAL STRATUM LIMITS. SUBSURFACE VARIATIONS BETWEEN BORINGS SHALL BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE FDOT STANDARD SPECIFICATIONS.
3.  - ENCOUNTERED GROUNDWATER LEVEL
4. STRATUM 1 (A-3) SHALL BE TREATED AS SELECT (S) MATERIAL IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 500 AND INDEX NO. 505.
5. PLASTIC AND ORGANIC MATERIAL ENCOUNTERED WITHIN THE ROADWAY SHALL BE REMOVED IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 500. MATERIAL USED IN EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE WITH FDOT STANDARD INDEX NO. 505.

118L
STATION: 118+00
OFFSET: 16' LT
ELEVATION: 58 APPROX.



GENERAL NOTES :

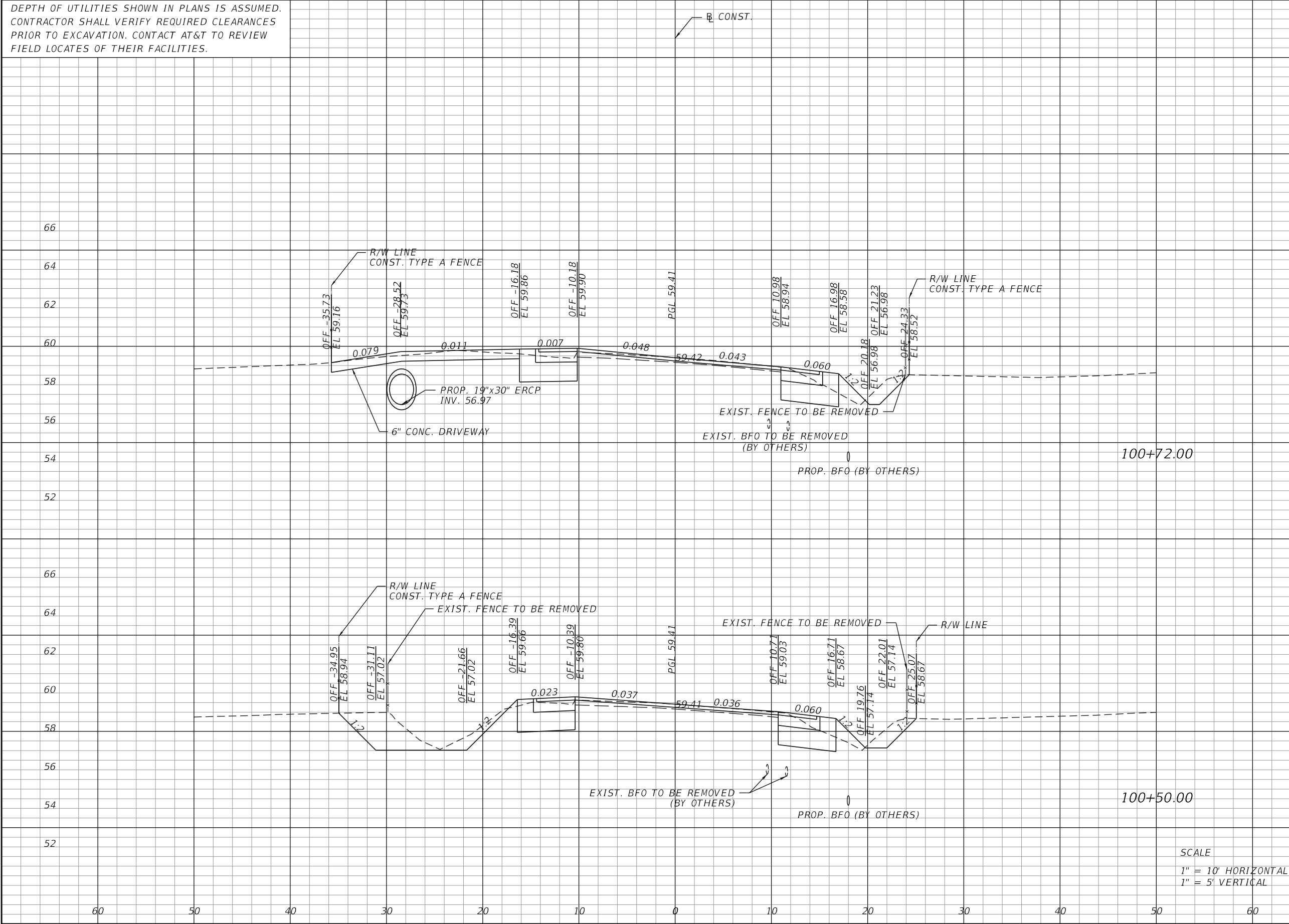
1. THE BORING LOCATIONS WERE NOT SURVEYED. LOCATIONS AND ELEVATIONS SHOULD BE CONSIDERED APPROXIMATE ONLY.
2. SOIL DESCRIPTIONS, GROUNDWATER MEASUREMENTS AND STRATA BOUNDARIES ARE REPRESENTATIVE OF OUR INTERPRETATION OF THE SUBSURFACE CONDITIONS AT EACH BORING LOCATION ONLY AND DO NOT REFLECT THE ACTUAL VARIATION IN SUBSURFACE CONDITIONS BETWEEN SAMPLES AND ADJACENT TO THE BORING LOCATIONS.

DATE ▼ - GROUNDWATER LEVEL ENCOUNTERED AND DATE
 ▽ - ESTIMATED SEASONAL HIGH GROUNDWATER LEVEL

R E V I S I O N S				ORANGE COUNTY GOVERNMENT F L O R I D A	<i>N. FORT CHRISTMAS ROAD REPORT OF AUGER BORINGS</i>		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				24
					PETER G. SUAH, P.E. P.E. LICENSE NO. 46910 ANTILLIAN ENGINEERING ASSOCIATES, INC. 3331 BARTLETT BOULEVARD ORLANDO, FLORIDA 32811 CERTIFICATE OF AUTHORIZATION EB6685		

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.

Regular		Exc.	Embankment	
A	V		A	V
2.80	8.03		9.80	6.93
16.90	0.00		7.20	0.00
BEGIN EARTHWORK STA. 100+10.00				



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



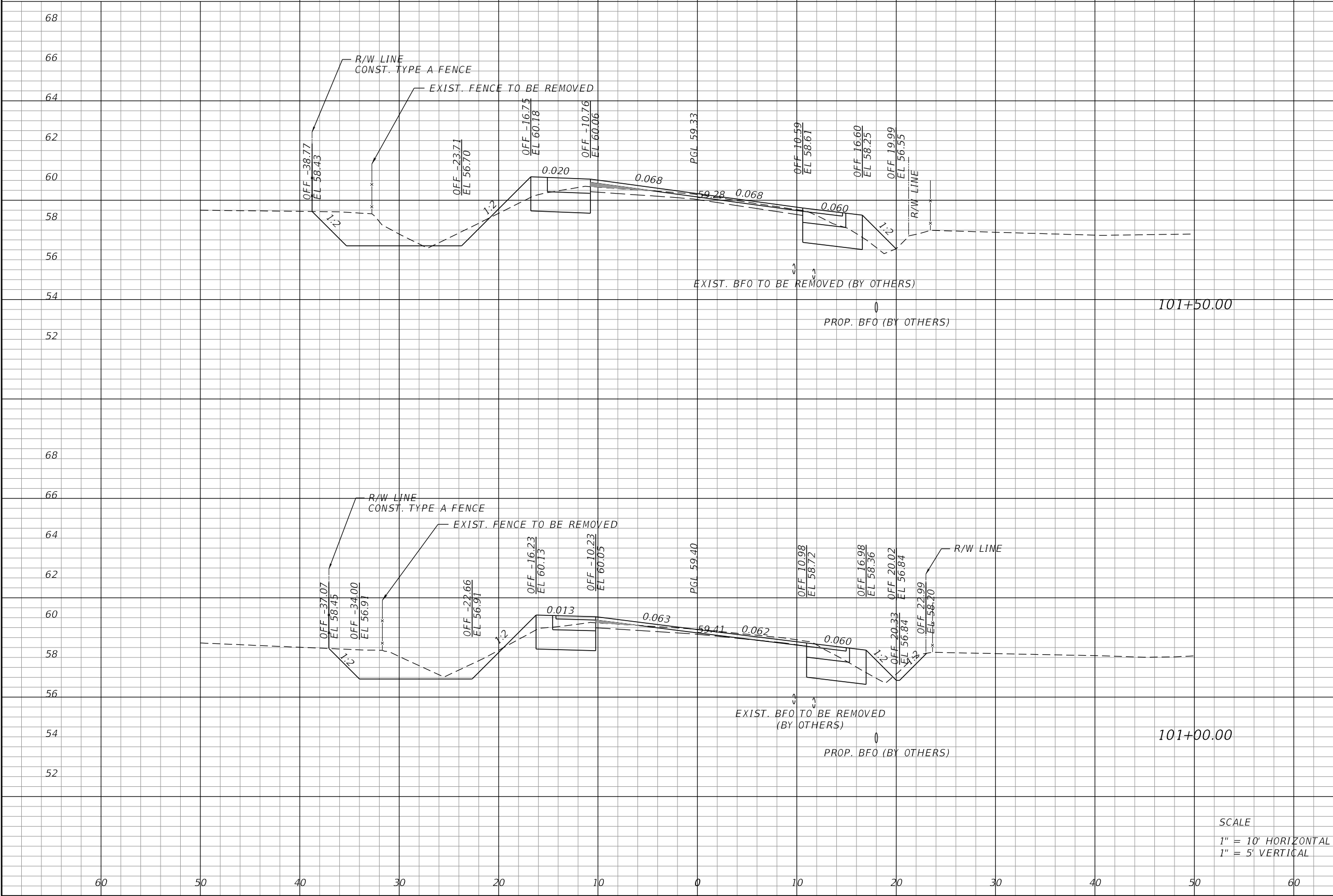
ORANGE COUNTY
GOVERNMENT
FLORIDA

N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

SHEET
NO.
25

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.

Regular		Exc.	Embankment	
A	V	A	V	
12.70	25.65	15.10	23.80	
15.00	9.23	10.60	10.58	



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



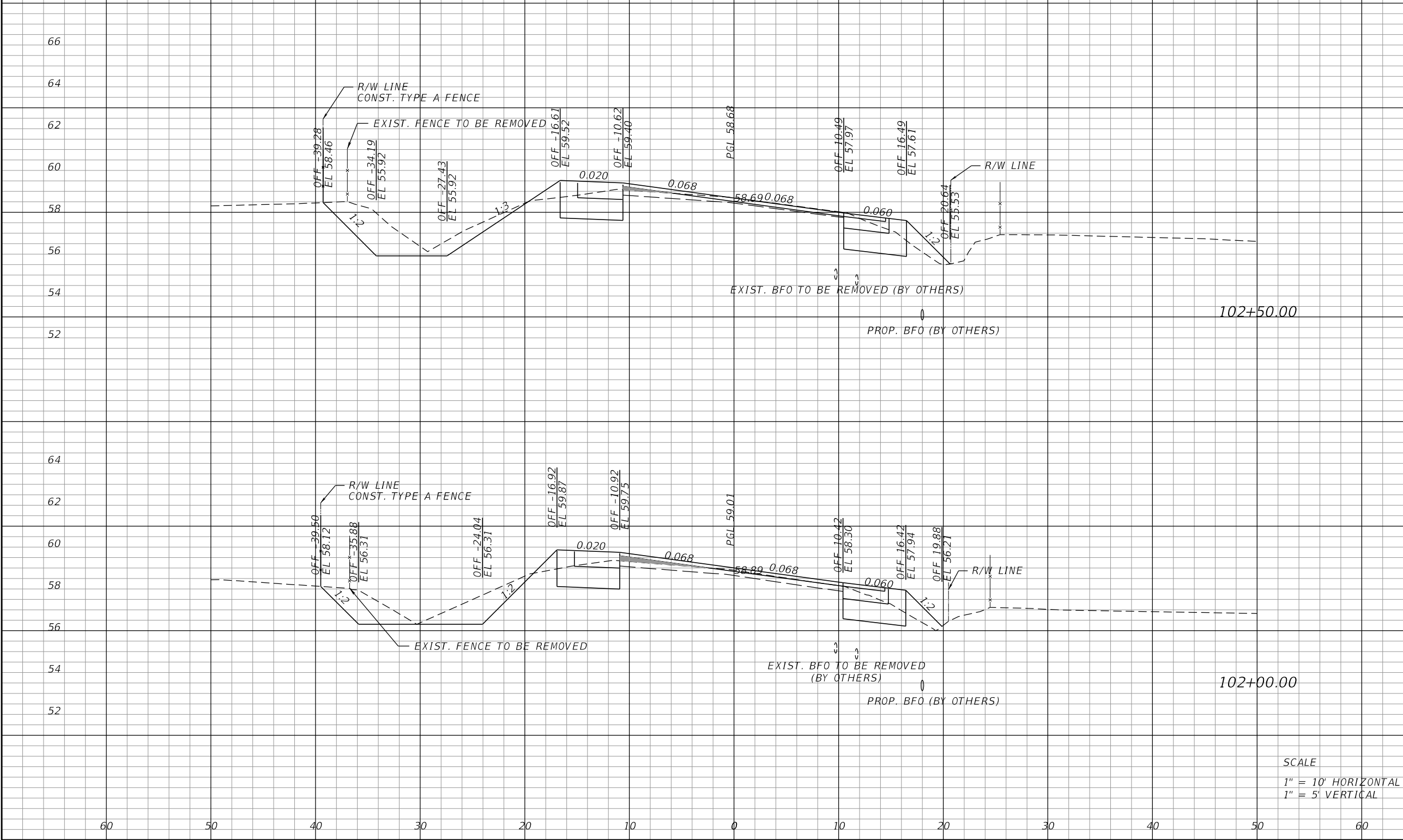
ORANGE COUNTY
GOVERNMENT
FLORIDA

N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

SHEET
NO.
26

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.

Regular		Exc.	Embankment	
A	V	A	V	
15.60	28.80	11.00	23.89	
15.50	26.11	14.80	27.69	



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



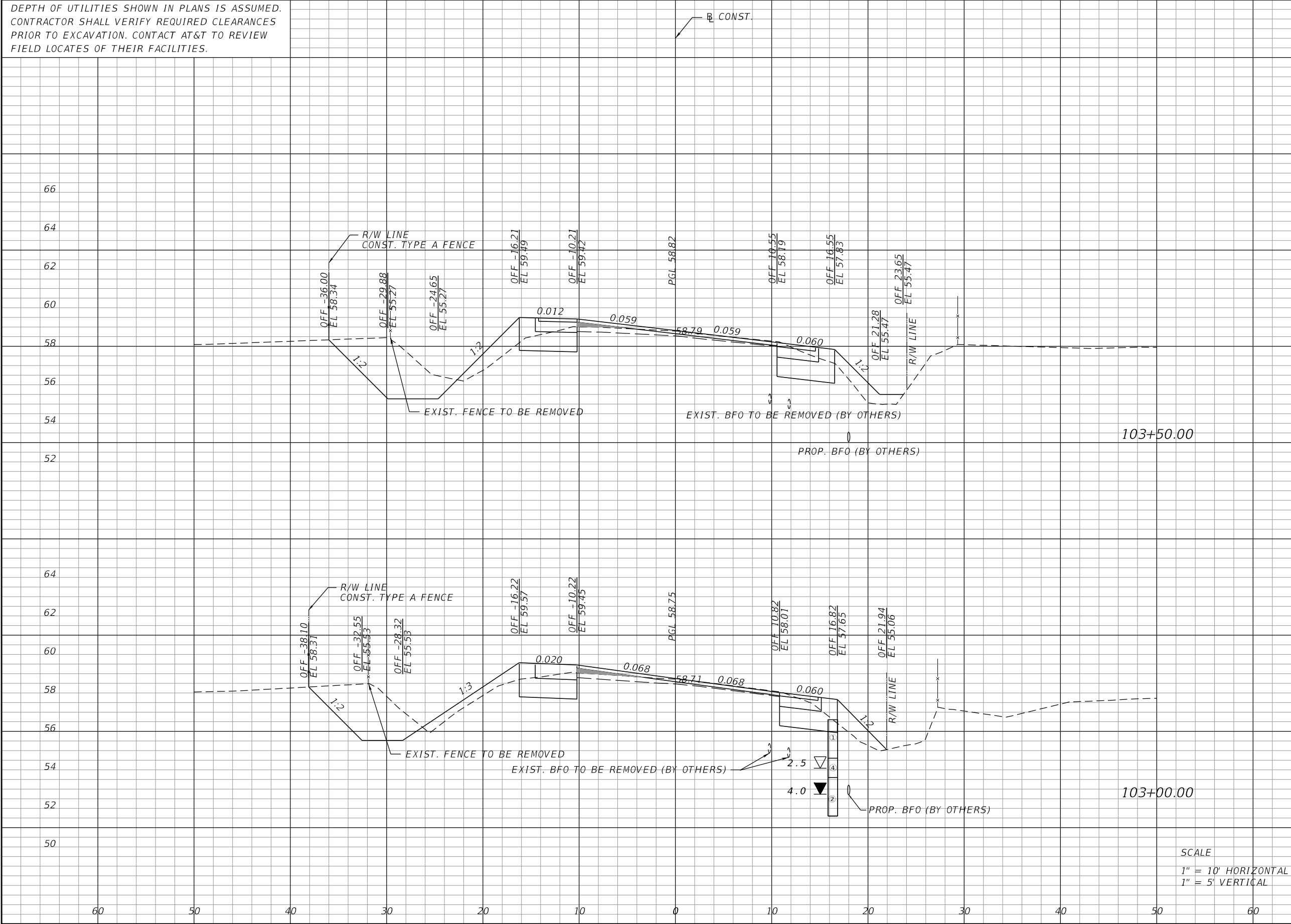
ORANGE COUNTY
GOVERNMENT
FLORIDA

N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

SHEET
NO.

27

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.



Regular		Exc.		Embankment	
A	V	A	V	A	V
22.20	39.17	19.50	34.44		
20.10	33.06	17.70	26.57		

SCALE
1" = 10' HORIZONTAL
1" = 5' VERTICAL

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

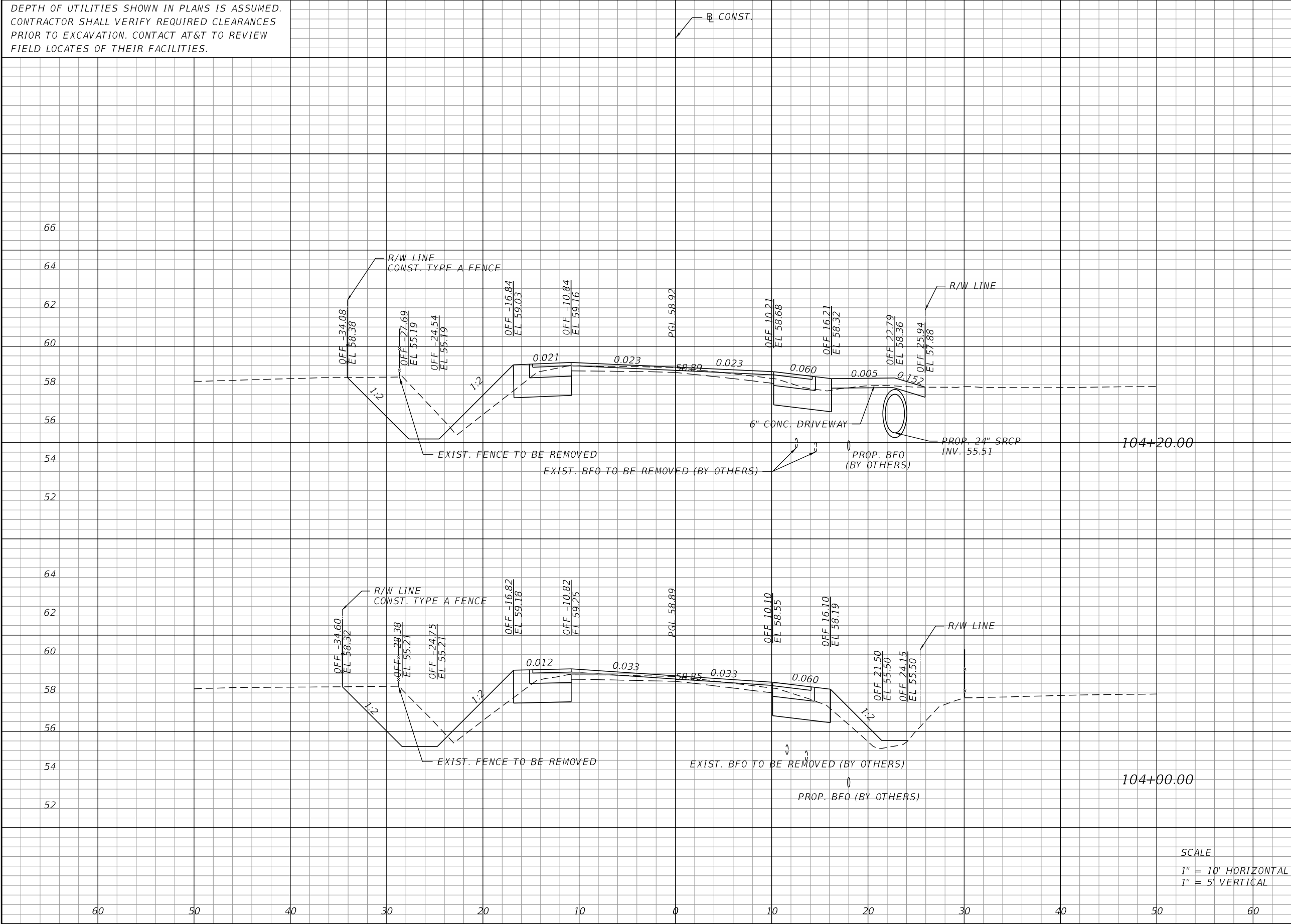


ORANGE COUNTY
GOVERNMENT
FLORIDA

N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

SHEET
NO.
28

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.



Regular		Exc.		Embankment	
A	V	A	V	A	V
17.40	13.00	19.40	15.52		
17.70	36.94	22.50	38.89		

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

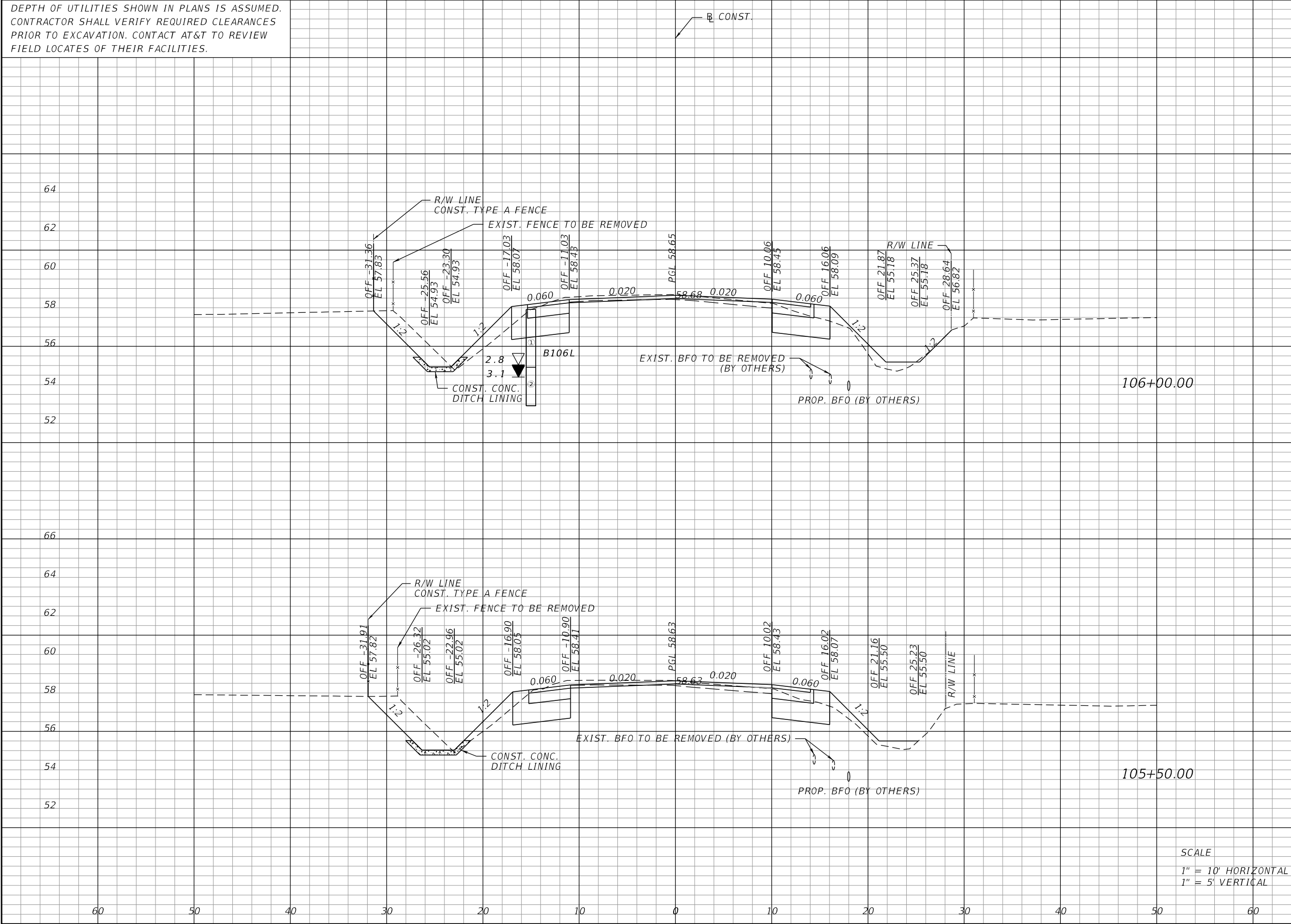
N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

SHEET
NO.

29

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED. CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW FIELD LOCATES OF THEIR FACILITIES.

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.



Regular		Exc.		Embankment	
A	V	A	V	A	V
7.90	16.94	14.30	24.26		
10.40	21.02	11.90	20.37		

SCALE
1" = 10' HORIZONTAL
1" = 5' VERTICAL

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

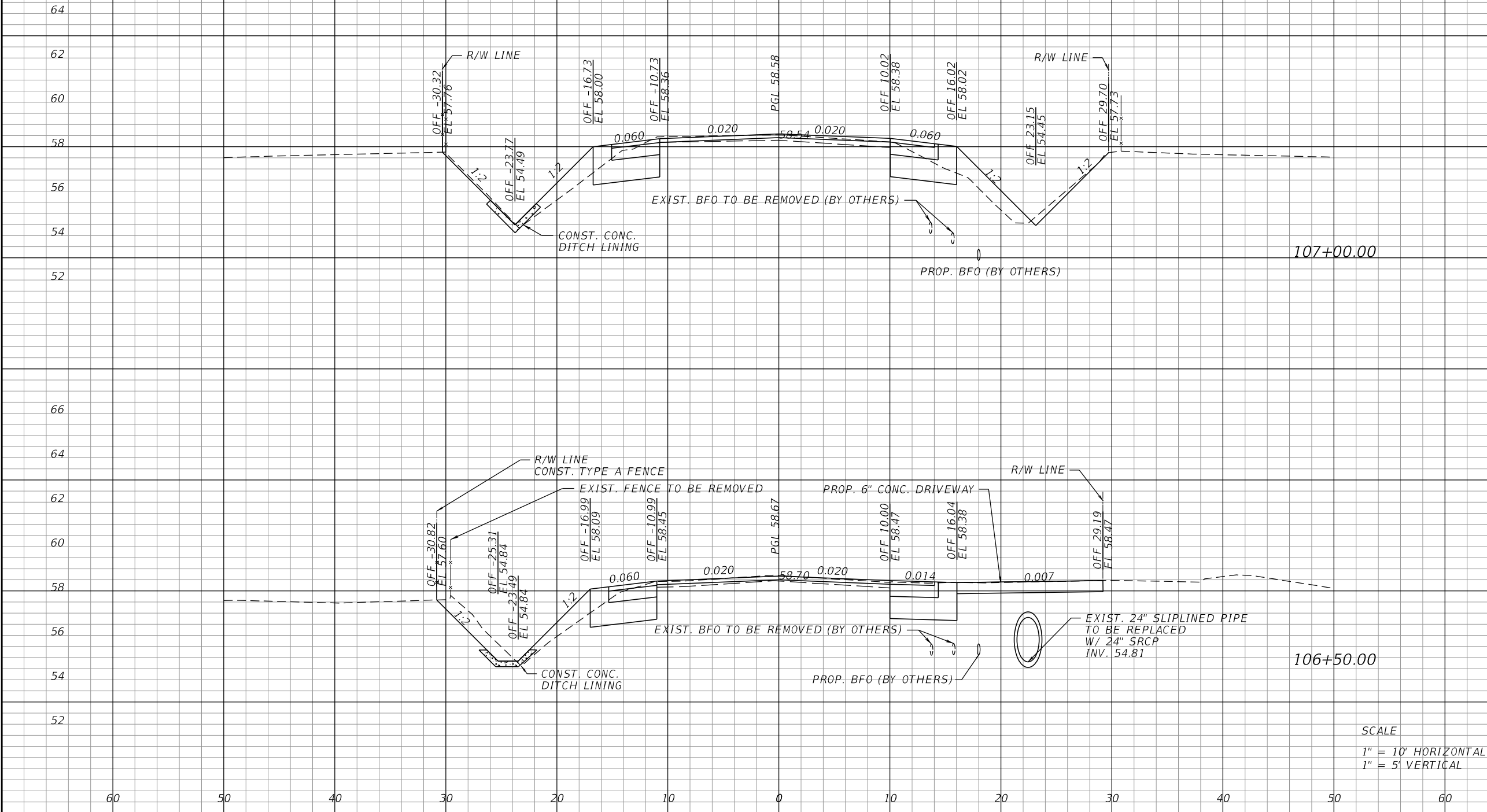
N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

SHEET
NO.

31

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.

Regular		Exc.	Embankment	
A		V	A	V
2.30	6.57	18.10	23.52	
4.80	11.76	7.30	20.00	



SCALE
1" = 10' HORIZONTAL
1" = 5' VERTICAL

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

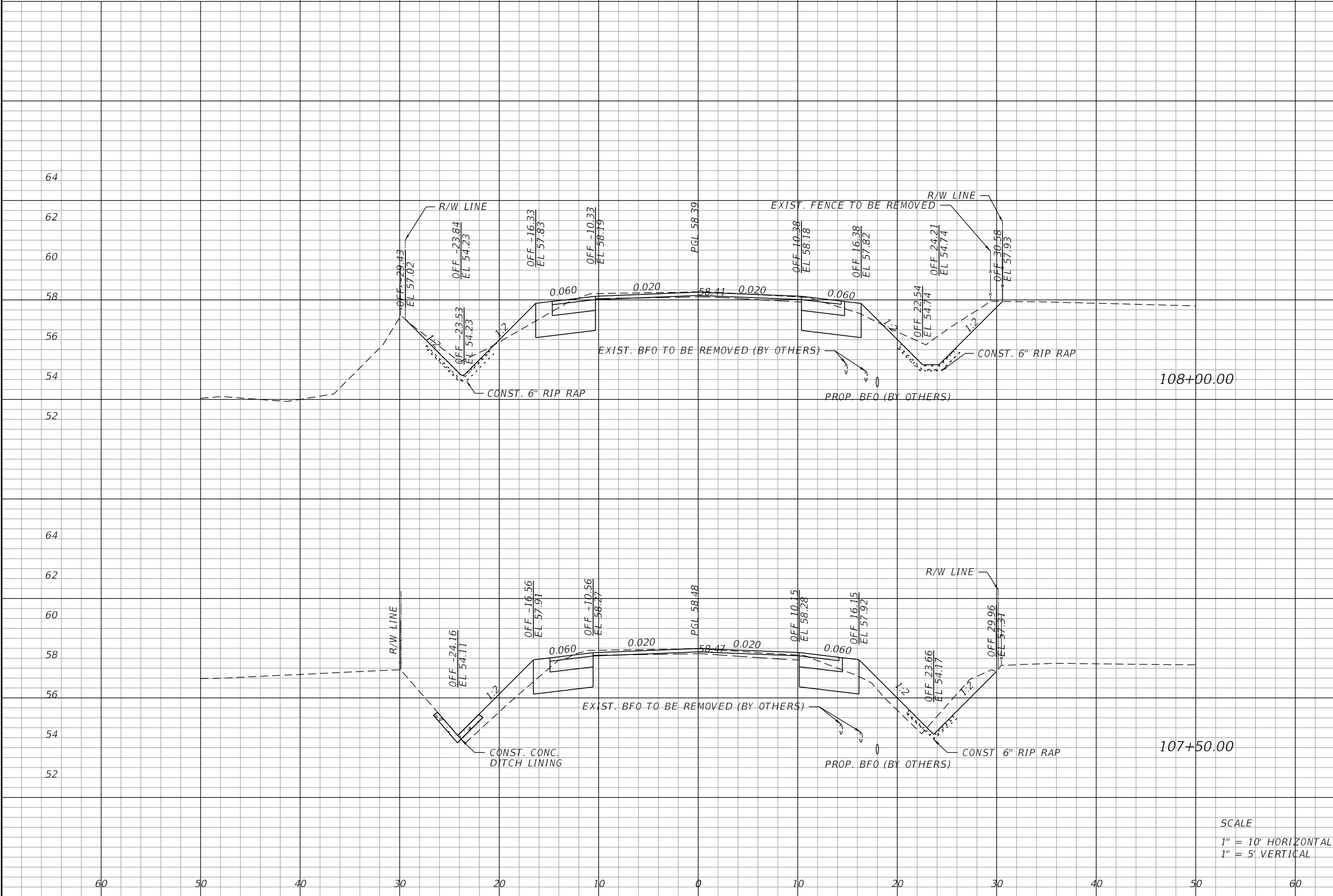
N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

SHEET
NO.

32

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.

Regular		Exc.	Embankment	
A	V	A	V	
13.90	17.96	5.70	19.81	
5.50	7.22	15.70	31.30	



SCALE
1" = 10' HORIZONTAL
1" = 5' VERTICAL

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

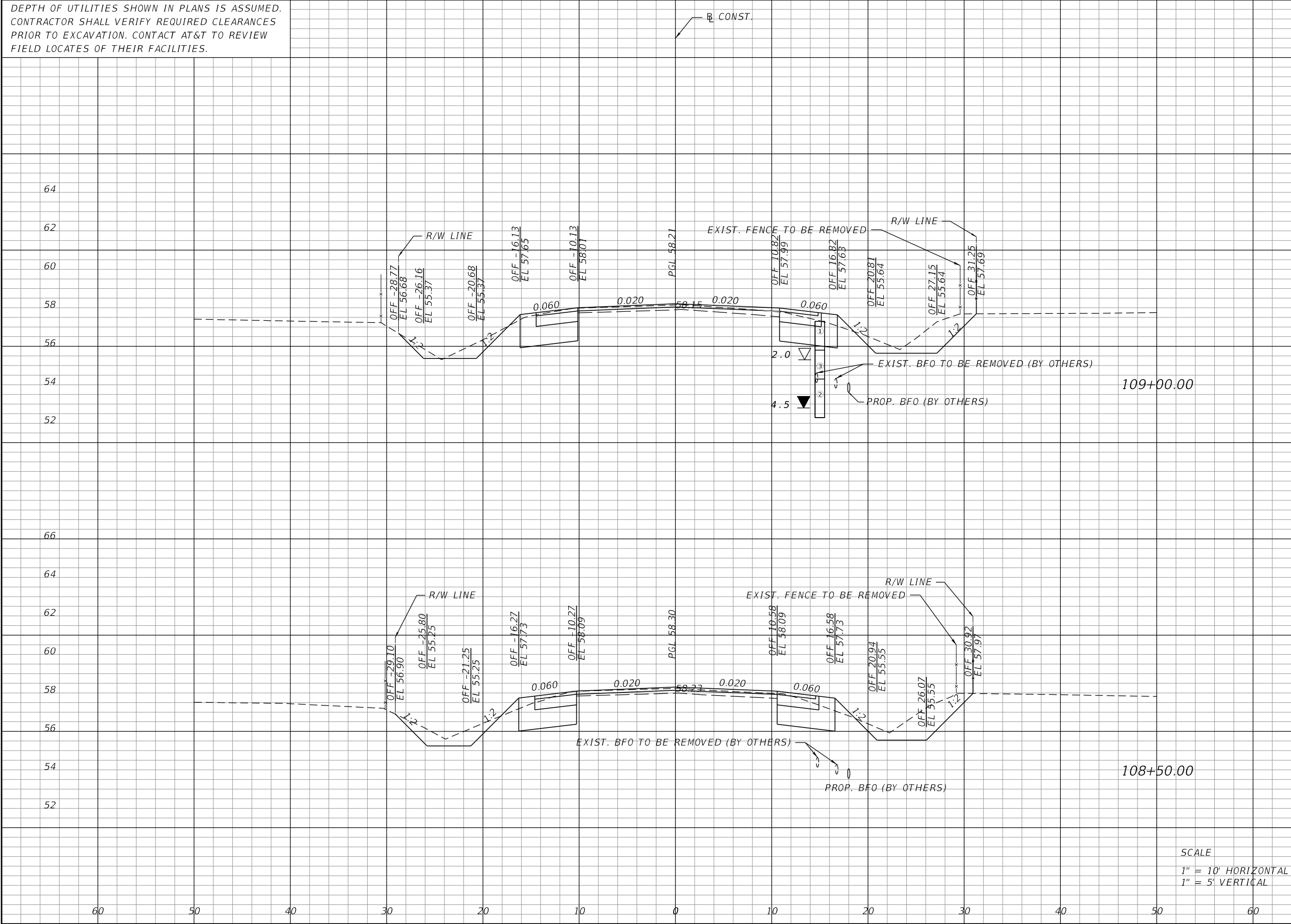
ORANGE COUNTY
GOVERNMENT
FLORIDA

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

N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

SHEET NO.
33

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.



Regular		Exc.	Embankment	
A	V	A	A	V
12.80	26.39	4.90	10.09	
15.70	27.41	6.00	10.83	

SCALE
1" = 10' HORIZONTAL
1" = 5' VERTICAL

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



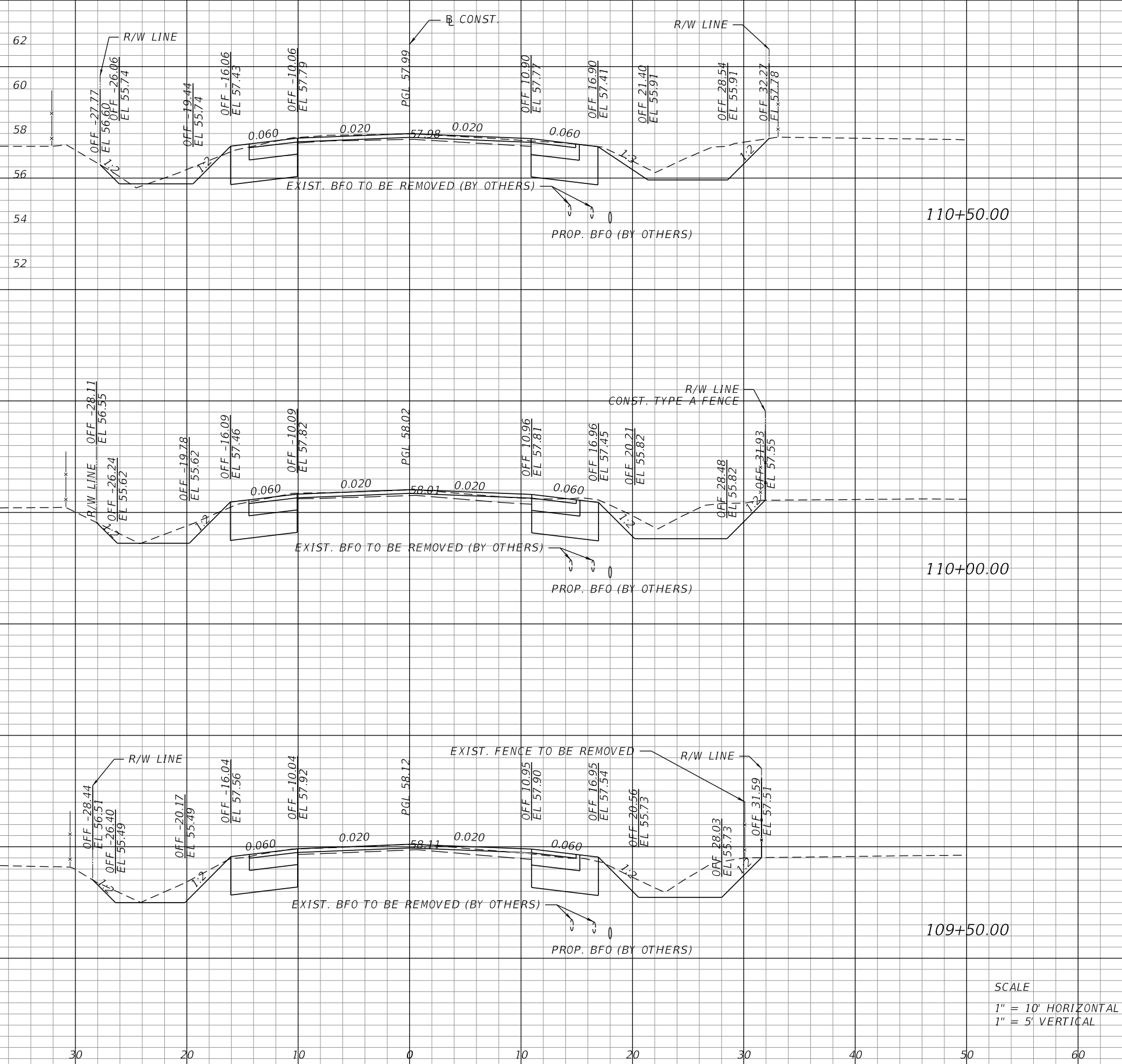
ORANGE COUNTY
GOVERNMENT
FLORIDA

N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

SHEET NO.

34

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.



Regular		Exc.		Embankment	
A	V	A	V	A	V
14.60	29.63	1.40	3.06		
17.40	30.09	1.90	4.26		
15.10	25.83	2.70	7.04		

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



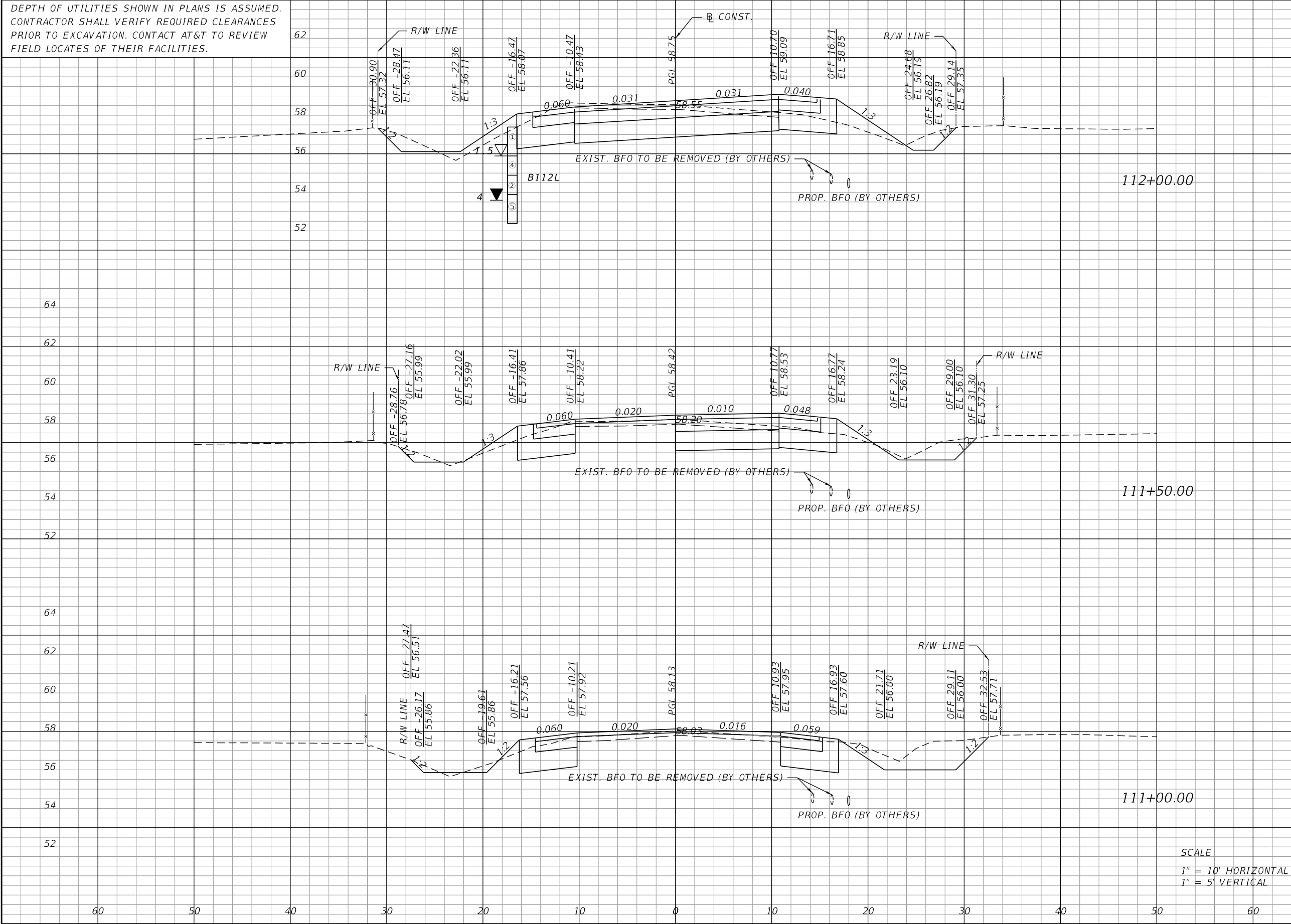
ORANGE COUNTY
GOVERNMENT
FLORIDA

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

*N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS*

SHEET
NO.
35

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.



Regular		Exc.		Embankment	
A	V	A	V	A	V
6.30	11.48	21.80	35.93		
6.10	18.52	17.00	23.15		
13.90	26.39	8.00	8.70		

SCALE
1" = 10' HORIZONTAL
1" = 5' VERTICAL

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

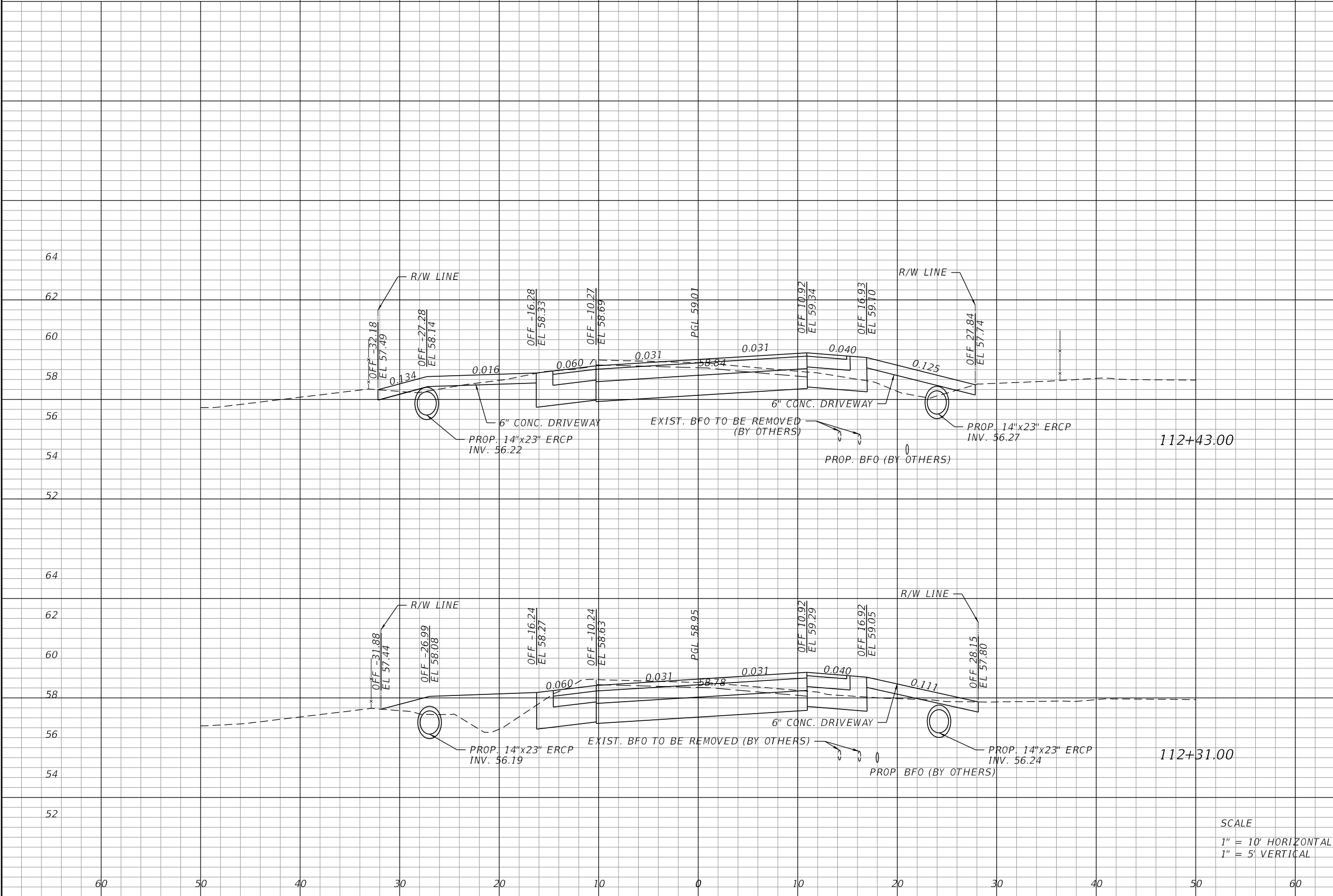
N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

SHEET
NO.

36

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.

Regular		Exc.	Embankment	
A	V	A	A	V
1.30	0.67	29.80	14.40	
1.70	4.59	35.00	32.61	



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



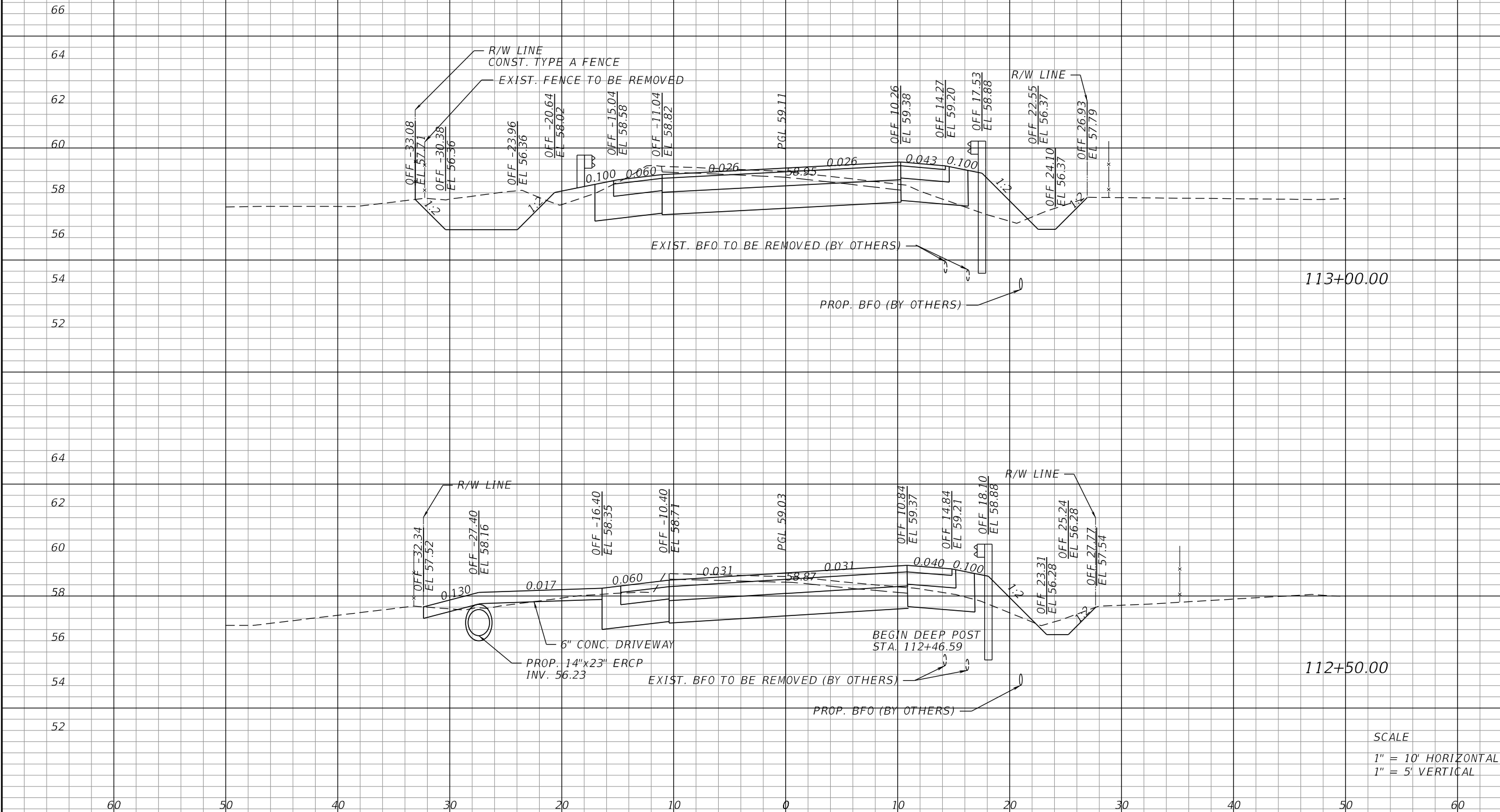
ORANGE COUNTY
GOVERNMENT
FLORIDA

N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

SHEET NO.
37

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.

Regular		Exc.	Embankment	
A	V	A	V	
19.60	21.39	23.40	45.65	
3.50	0.62	25.90	7.22	



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

N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

SHEET
NO.
38

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.

Regular		Exc.	Embankment	
A	V	A	A	V

66

64

62

60

58

56

54

52

64

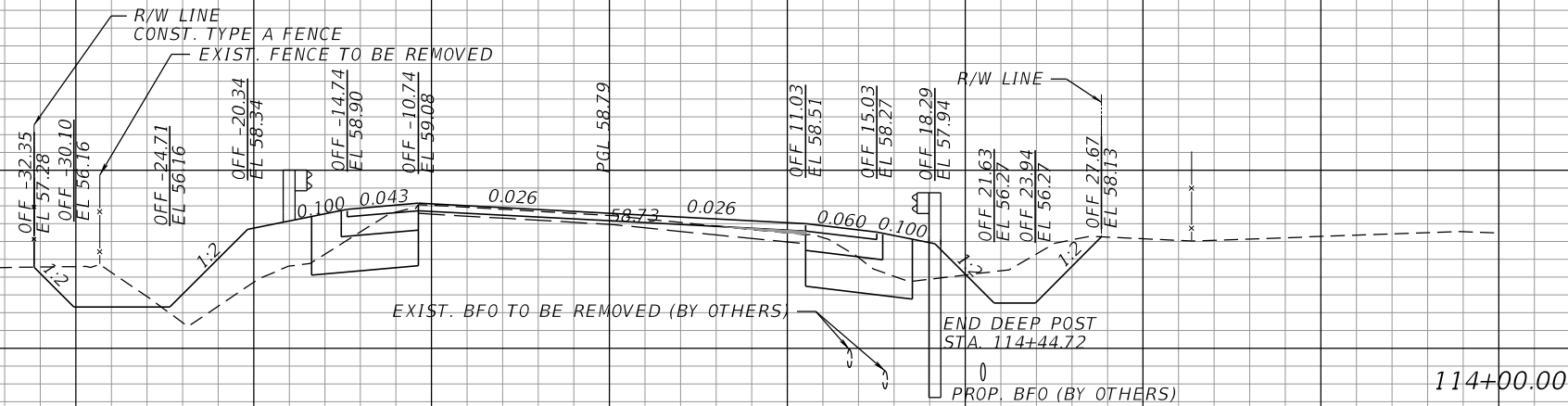
62

60

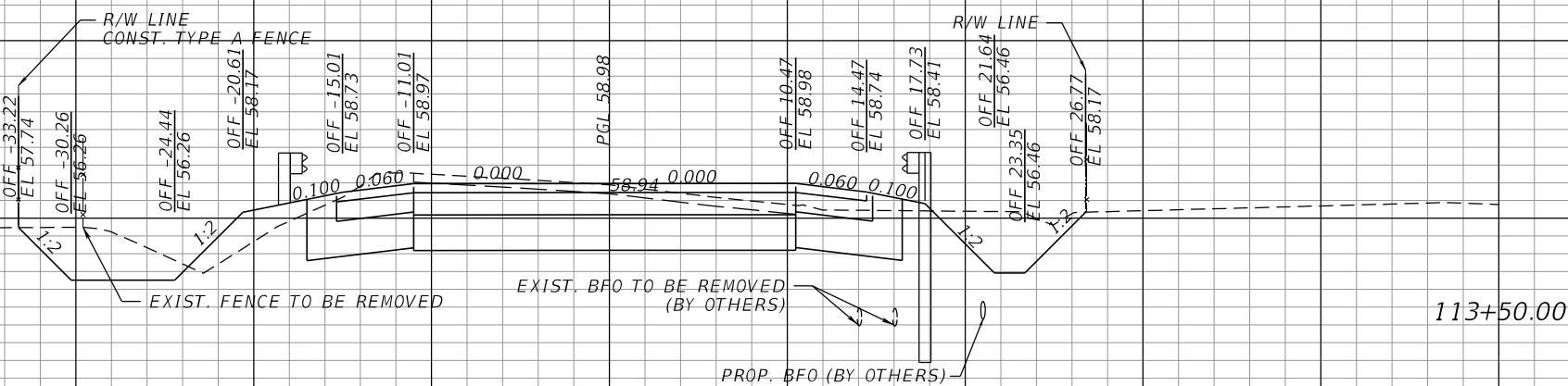
58

56

54



11.10	28.80	23.20	32.78
-------	-------	-------	-------



20.00	36.67	12.20	32.96
-------	-------	-------	-------

SCALE
1" = 10' HORIZONTAL
1" = 5' VERTICAL

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

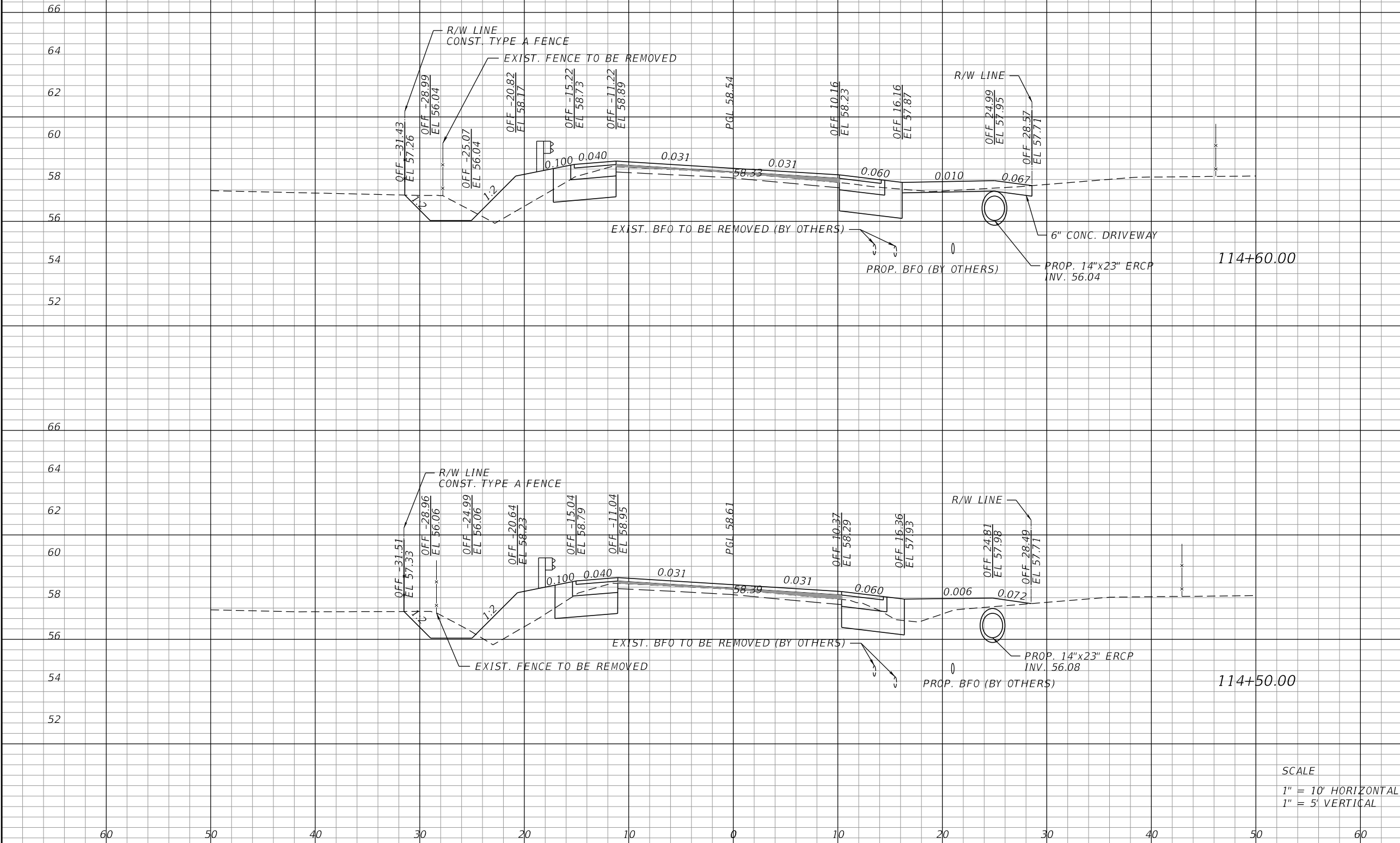
N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

SHEET
NO.

39

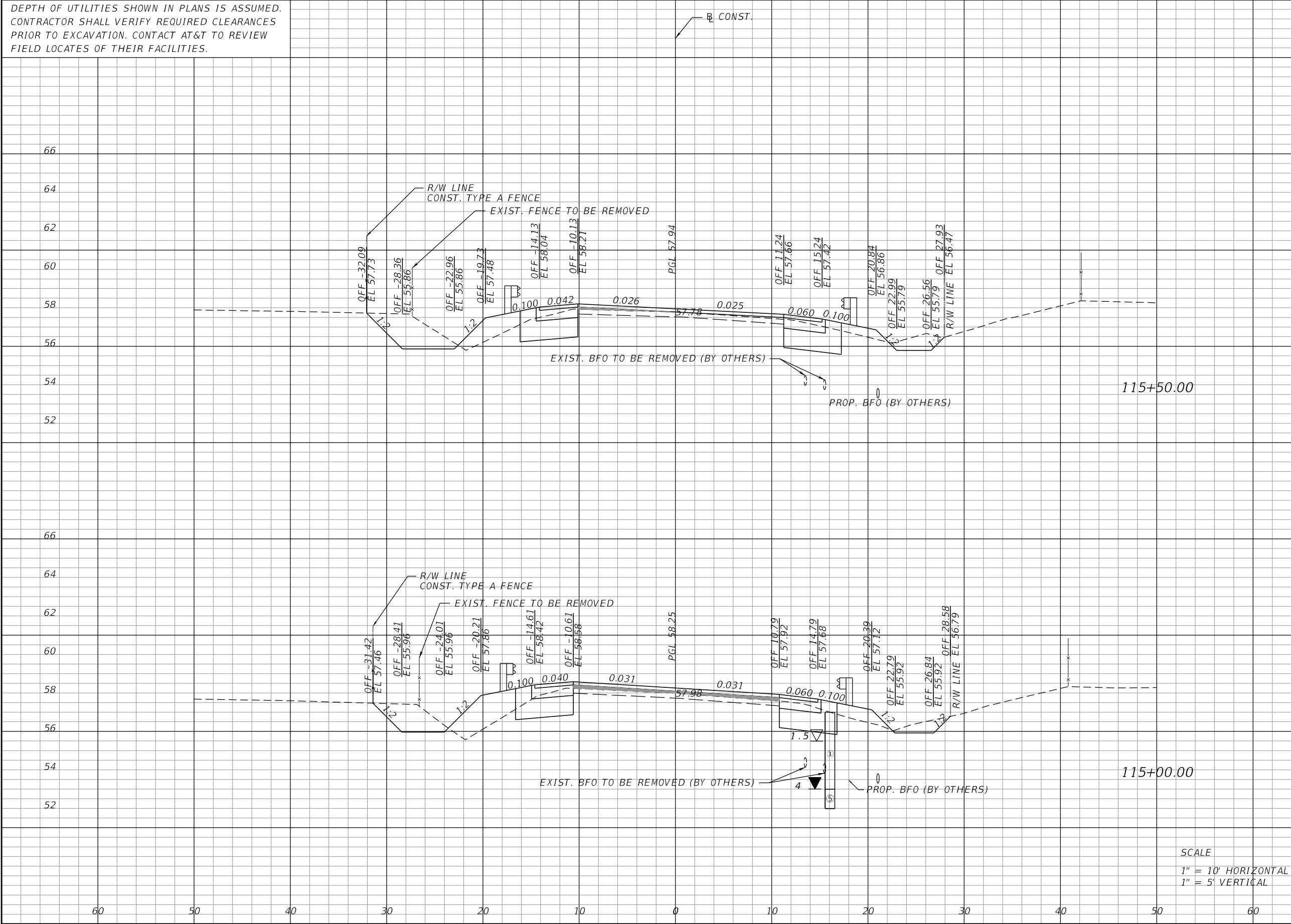
DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.

Regular		Exc.	Embankment	
A	V	A	V	



5.30	1.89	24.10	10.02
4.90	14.81	30.00	49.26

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.



Regular		Exc.	Embankment	
A	V	A	V	
12.90	20.74	16.80	38.61	
9.50	10.96	24.90	36.30	

SCALE
1" = 10' HORIZONTAL
1" = 5' VERTICAL

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



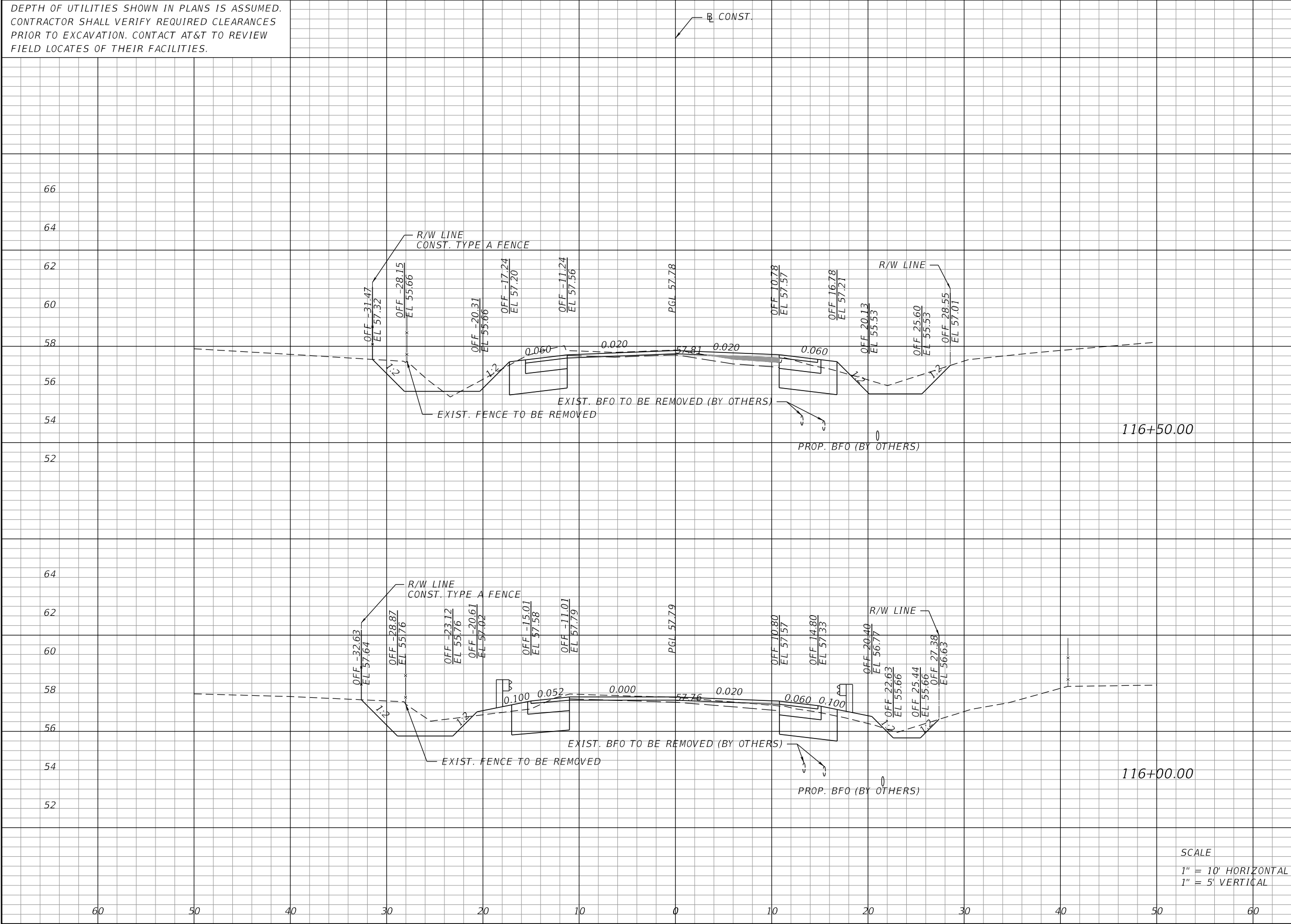
ORANGE COUNTY
GOVERNMENT
FLORIDA

N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

4/5/2019 11:46:47 AM T:\2017\2017.080.01 - Ft Christmas\CAD\Roadway\RD\XSRD01.DGN

SHEET NO.
41

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.



Regular		Exc.	Embankment	
A	V	A	V	
15.20	26.85	5.30	11.48	
13.80	24.72	7.10	22.13	

SCALE
1" = 10' HORIZONTAL
1" = 5' VERTICAL

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



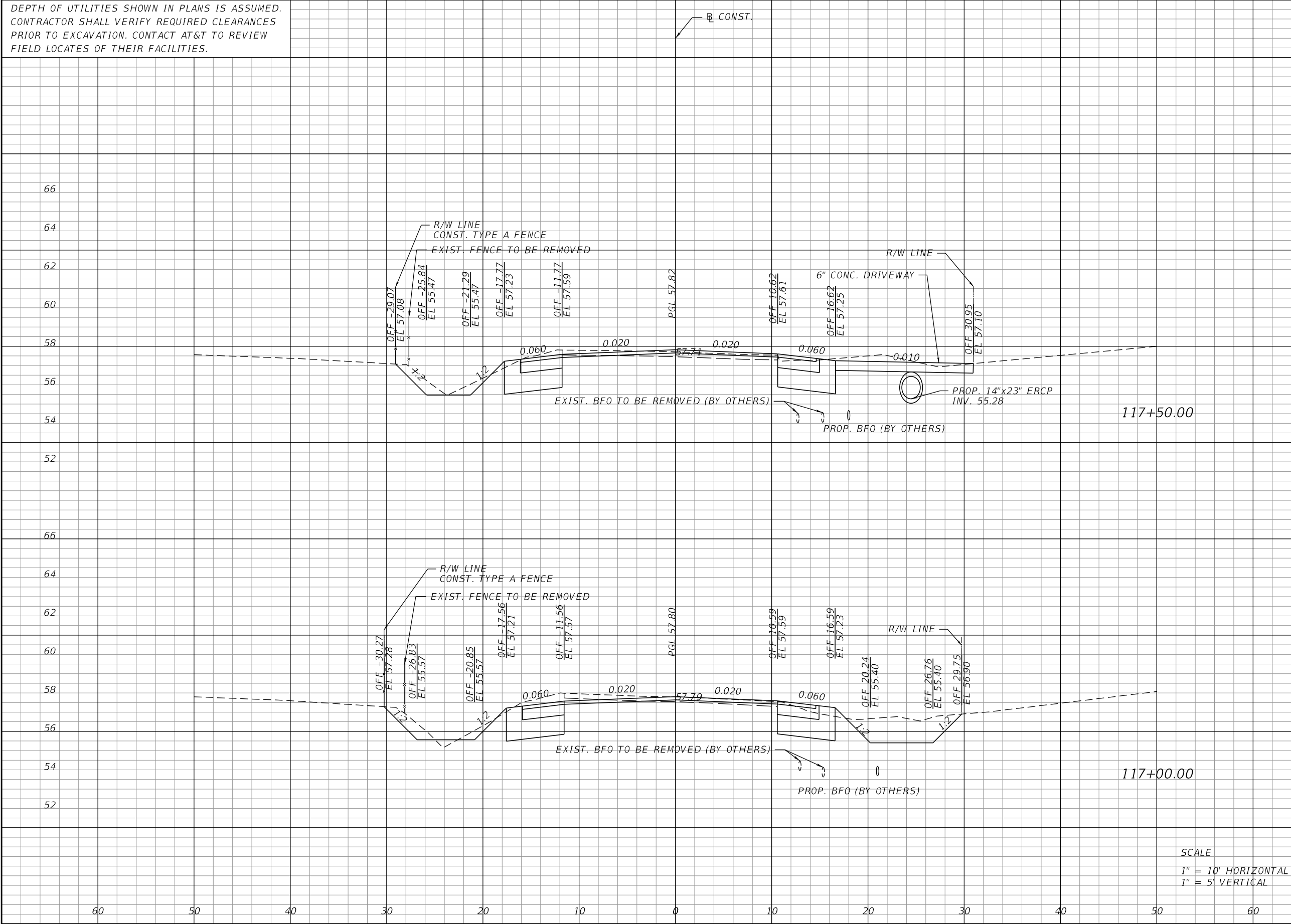
ORANGE COUNTY
GOVERNMENT
FLORIDA

N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

4/5/2019 11:46:48 AM T:\2017\2017.080.01 - Ft Christmas\CAD\Roadway\RD\XSRD01.DGN

SHEET NO.
42

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.



Regular		Exc.		Embankment	
A	V	A	V	A	V
7.20	24.54	3.40	5.74		
19.30	31.94	2.80	7.50		

SCALE
1" = 10' HORIZONTAL
1" = 5' VERTICAL

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

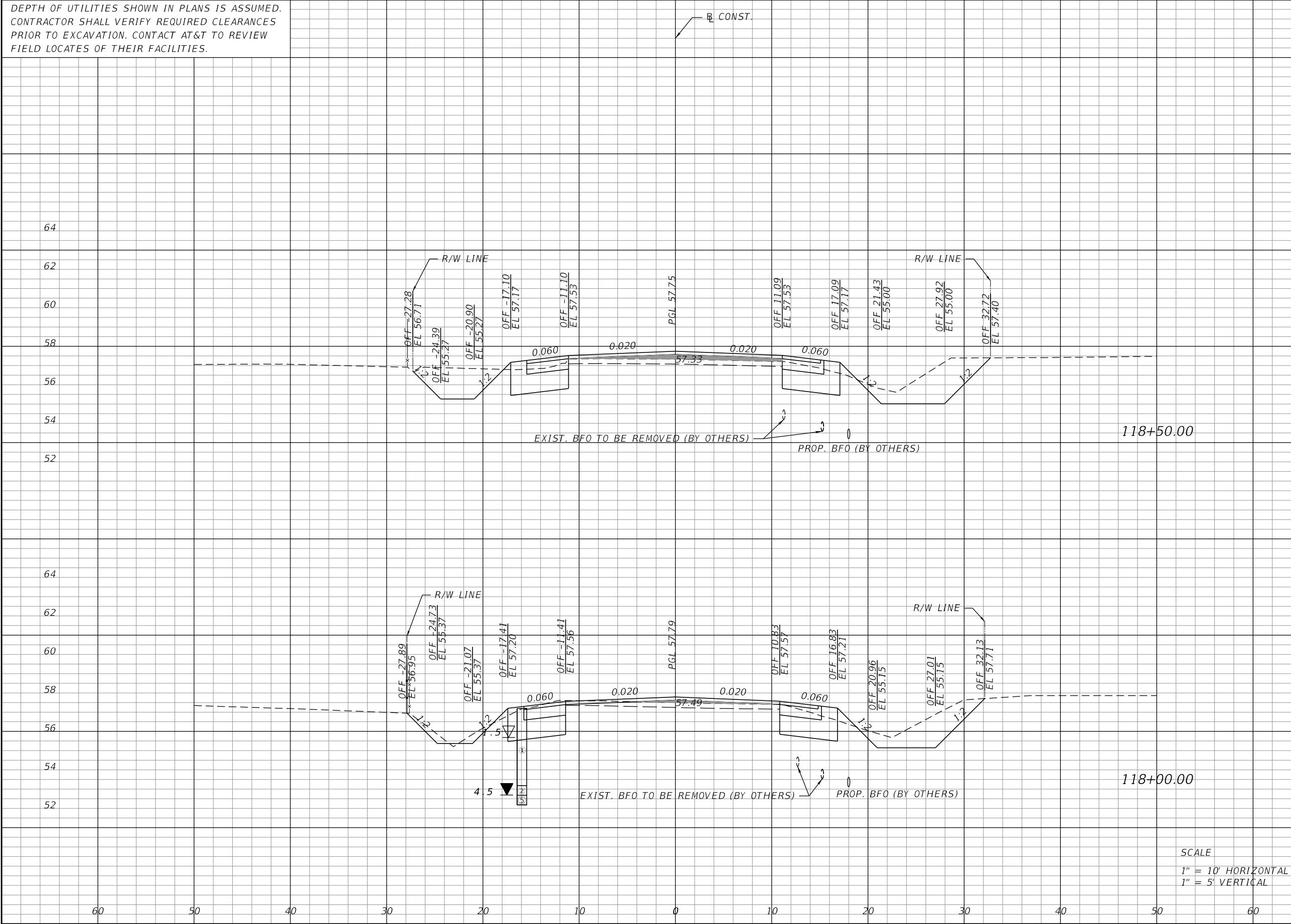
ORANGE COUNTY
GOVERNMENT
FLORIDA

N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

4/5/2019 11:46:48 AM T:\2017\2017.080.01 - Ft Christmas\CAD\Roadway\RD\XSRD01.DGN

SHEET NO.
43

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.



Regular		Exc.	Embankment	
A	V	A	V	
25.00			13.10	
	36.39			19.35
14.30			7.80	
	19.91			10.37

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



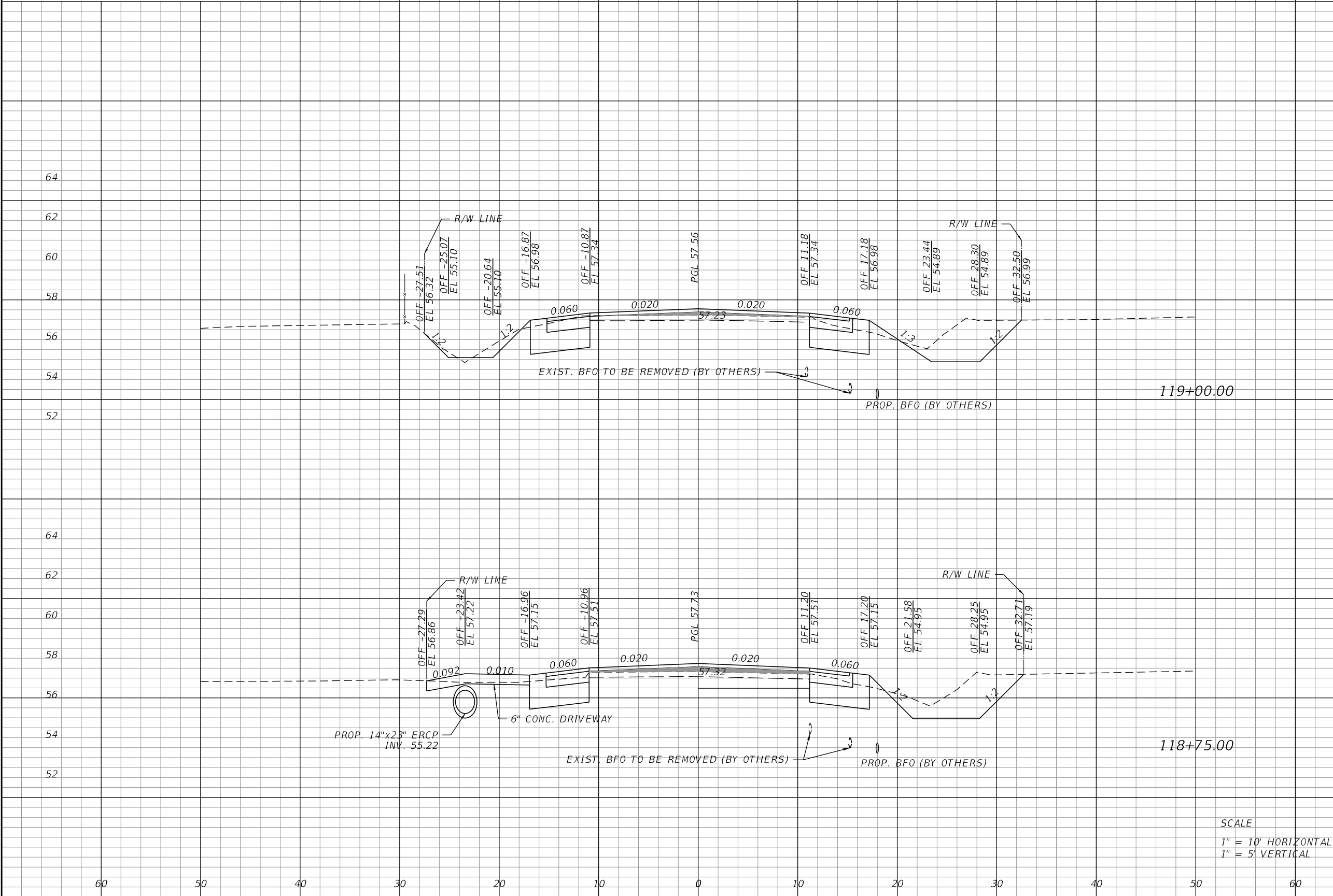
ORANGE COUNTY
GOVERNMENT
FLORIDA

N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

SHEET NO.
44

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.

Regular		Exc.	Embankment	
A	V	A	V	
15.70	14.21	10.80	12.45	
15.00	18.52	16.10	13.52	



SCALE
1" = 10' HORIZONTAL
1" = 5' VERTICAL

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

N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

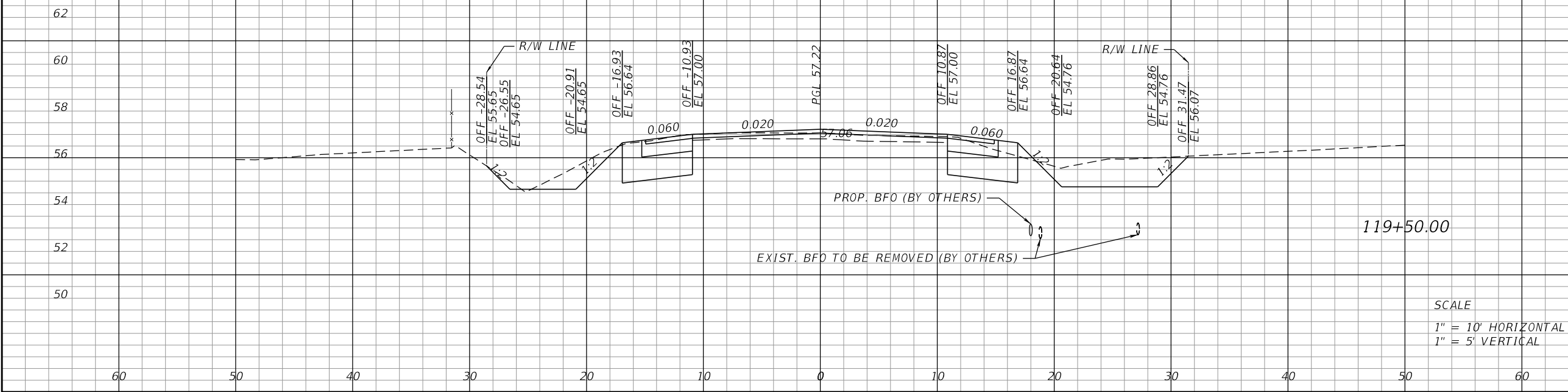
SHEET
NO.

45

DEPTH OF UTILITIES SHOWN IN PLANS IS ASSUMED.
CONTRACTOR SHALL VERIFY REQUIRED CLEARANCES
PRIOR TO EXCAVATION. CONTACT AT&T TO REVIEW
FIELD LOCATES OF THEIR FACILITIES.

CONST.

Regular		Exc.	Embankment	
A		V	A	V
15.80	END EARTHWORK STA. 119+84.93			
		910		912
		29.17	4.90	14.54



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

N. FORT CHRISTMAS RD.
ROADWAY
CROSS SECTIONS

SHEET NO.
46

I. SITE DESCRIPTION:

- (1) NATURE OF CONSTRUCTION ACTIVITY:
PROJECT INVOLVES THE ADDITION OF A SIX (6) FOOT SHOULDER ON BOTH SIDES OF ROADWAY, FOUR (4) FOOT PAVED, TWO (2) FOOT UNPAVED. THIS WILL INVOLVE MODIFICATIONS TO THE EXISTING DRAINAGE SYSTEM INCLUDING DITCH REGRADING AND PIPE REPLACEMENT.
- (2) SEQUENCE OF MAJOR SOIL DISTURBING ACTIVITIES:
THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE EROSION CONTROL IN ACCORDANCE WITH THE PLANS AND INFORMATION PROVIDED HEREIN ALONG WITH A DETAILED CONSTRUCTION SCHEDULE TO INDICATE DATES OF MAJOR GRADING ACTIVITIES AND DETERMINE SEQUENCES OF TEMPORARY AND PERMANENT SOIL DISTURBING ACTIVITIES ON ALL PORTIONS OF THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO USE BEST MANAGEMENT PRACTICES, OR AS DIRECTED BY THE ENGINEER, TO MITIGATE EROSION.
- (3) GENERAL NOTES:
(a) ALL EROSION CONTROL DEVICES FOR EACH PHASE OF WORK ARE TO BE INSTALLED PRIOR TO BEGINNING WORK ON THAT PHASE.
(b) INSTALL SILT FENCE SURROUNDING THE LIMITS OF CONSTRUCTION AS NECESSARY FOR PERIMETER CONTROLS BEFORE THE LAND IS DISTURBED.
(c) COVER OR STABILIZE DISTURBED AREAS AS SOON AS POSSIBLE, OR WITHIN 7 DAYS IN AREAS WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.
(d) DO NOT DISTURB AN AREA UNTIL IT IS NECESSARY FOR CONSTRUCTION TO PROCEED.
(e) TIME CONSTRUCTION ACTIVITIES TO LIMIT IMPACT FROM SEASONAL CLIMATE CHANGES OR WEATHER EVENTS.
(g) DO NOT REMOVE PERIMETER CONTROLS UNTIL AFTER ALL UPSTREAM AREAS ARE FULLY STABILIZED AND PERMANENT GRASSING IS ESTABLISHED.
- (4) PROJECT AREAS:
THE ESTIMATED TOTAL PROJECT AREA IS 2.72 ACRES.
THE ESTIMATED AREA TO BE DISTURBED FOR CONSTRUCTION ACTIVITIES IS 1.76 ACRES
- (5) RUNOFF COEFFICIENTS BEFORE Cw(B), DURING Cw(D) AND AFTER Cw(A) CONSTRUCTION:

RUNOFF COEFFICIENT FOR FLAT GRASSY LAND: C=0.10
FOR IMPERVIOUS ASPHALTIC PAVEMENT: C=0.95
FOR DISTURBED AREAS, EXPOSED SOIL, ETC., DURING CONSTRUCTION: C=0.40
WEIGHTED RUN-OFF COEFFICIENT:
BEFORE: Cw(B) = 0.11 DURING: Cw(D) = 0.21 AFTER: Cw(A) = 0.20
THE RUN-OFF COEFFICIENT DURING CONSTRUCTION, Cw(D), IS CALCULATED ASSUMING THAT THE MAXIMUM ALLOWABLE AREA OF SOIL IS DISTURBED DURING CONSTRUCTION.
- (6) DESCRIPTION OF SOIL OR QUALITY OF DISCHARGE:
THE FOLLOWING SOILS ARE TYPICALLY FOUND IN THE AREA OF THIS PROJECT: SMYRNA FINE SAND, BASINGER FINE SAND, AND ZOLFO FINE SAND.
- (7) ESTIMATED DRAINAGE AREA AND AVERAGE SLOPE OF DRAINAGE AREA FOR EACH OUTFALL:
(a) SITE MAP: TO BE INCLUDED WITH THESE SHEETS.
(b) RECEIVING WATERS: THE EXISTING ONSITE RUNOFF FLOW PATH WILL BE MAINTAINED. CONVEYING WATER THROUGH LONGITUDINAL SWALES TO ULTIMATE DISCHARGE INTO ROBERTS BRANCH.
- (8) RECEIVING WATERS:

THE EXISTING ONSITE RUNOFF FLOW PATH WILL BE MAINTAINED, CONVEYING WATER THROUGH LONGITUDINAL SWALES TO OCCASIONAL OUTFALLS WITH ULTIMATE DISCHARGE INTO ROBERTS BRANCH.
- (9) THE OUTFALLS ARE NOT 303(d) LISTED WATERS FOR TOTAL SUSPENDED SOLIDS (TSS), TURBIDITY, AND SETTLEABLE SOLIDS.
- (10) OUTFALL LOCATIONS: (TEMPORARY AND PERMANENT)

(a) THE DOWNSTREAM END OF THE 36" SRCP LOCATED AT STA. 107+80 IS THE OUTFALL FOR THE NORTHERN PORTION OF THE PROJECT. LAT. 28° 36' 05" N LONG. 81° 04' 40" W

(b) THE END OF THE PROJECT AT STA. 119+84.93 IS THE OUTFALL FOR THE SOUTHERN PORTION OF THE PROJECT. LAT. 28° 35' 60" N LONG. 81° 04' 30" W
- (11) NO WETLANDS WILL BE IMPACTED ON THIS PROJECT.
- (12) DESCRIPTION OF STORMWATER MANAGEMENT: (EXISTING/PROPOSED)

(a) EXISTING DRAINAGE FLOWS ALONG SWALES WITH OUTFALL TO ROBERTS BRANCH. FOR PROPOSED CONDITIONS, DRAINAGE PATTERNS WILL NOT CHANGE AND RUNOFF WILL DISCHARGE TO THE SAME WATER COURSE AS THE OFF-SITE FLOWS. THE EXISTING DRAINAGE PATTERNS FOR THE OFF-SITE FLOW WILL NOT BE MODIFIED OR AFFECTED BY THE ADDITION OF THE ROADWAY IMPROVEMENTS.
(b) OFF-SITE RUNOFF SHOULD BE DIVERTED AWAY OR THROUGH THE CONSTRUCTION AREA, IF POSSIBLE. THIS ADDITIONAL FLOW, IF NOT DIVERTED, CAN ADD VOLUME AND SIZE TO STRUCTURAL PRACTICES, REQUIRING MORE FREQUENT MAINTENANCE AND LIMITING EFFECTIVENESS OF EROSION AND SEDIMENT CONTROLS.
(c) THE CONTRACTOR WILL PROVIDE POLLUTION CONTROL BY IMPLEMENTING DUST CONTROL DURING ALL PHASES OF CONSTRUCTION.
(d) THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT UNAUTHORIZED MATERIALS FROM ENTERING THE WATERWAYS.

II. CONTROLS: EROSION AND SEDIMENT CONTROLS

- (1) STABILIZATION PRACTICES:
STABILIZATION MEASURES, SUCH AS SODDING OR SEEDING OF SIDE SLOPES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.
- (2) STRUCTURAL PRACTICES INCLUDE:
(a) SILT FENCES

- (3) SILT FENCE LOCATIONS:
(a) SILT FENCE SHALL BE USED ALONG THE LENGTH OF THE PROJECT WHERE THE EXISTING GROUND SLOPES AWAY FROM THE RIGHT OF WAY OR WHERE THERE IS POTENTIAL FOR SEDIMENT TO BE DIRECTED OFF-SITE.
(b) STOCKPILE AREAS SHALL INCLUDE SILT FENCE AROUND THE PERIMETER.

III. OTHER CONTROLS:

- (1) WASTE DISPOSAL:
(a) THE CONTRACTOR WILL PROVIDE LITTER CONTROL AND COLLECTION WITHIN THE PROJECT BOUNDARIES DURING CONSTRUCTION ACTIVITIES.

(b) ALL FERTILIZER AND CHEMICAL CONTAINERS SHALL BE DISPOSED OF BY THE CONTRACTOR ACCORDING TO EPA'S STANDARD PRACTICES AS DETAILED BY THE MANUFACTURER.

(c) NO SOLID MATERIALS, INCLUDING BUILDING AND CONSTRUCTION MATERIALS, SHALL BE DISCHARGED TO SURFACE WATERS OR WETLANDS OR BURIED ON SITE.

(d) ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS BY A LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR AS REQUIRED BY STATE REGULATIONS.
- (2) OFF-SITE VEHICLE TRACKING - WILL BE CONTROLLED BY THE FOLLOWING METHODS:
(a) LOADED HAUL TRUCKS ARE TO BE COVERED BY A TARPULIN AT ALL TIMES.
- (3) STATE AND LOCAL REGULATIONS:
PERMITS WILL BE REQUIRED FROM THE FOLLOWING AGENCIES:

DEP GENERIC PERMIT (NPDES)
- (4) APPLICATION OF FERTILIZERS AND PESTICIDES:

FERTILIZERS AND PESTICIDES WILL BE USED ON THIS PROJECT IN ACCORDANCE WITH "FD0T STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", SECTIONS 570, 575, OR 577, AND IN ACCORDANCE WITH CONTRACT PLANS AND SPECIFICATIONS, AT THE DISCRETION OF THE CONTRACTOR WITH THE COORDINATION OF THE PROJECT ENGINEER.

- (5) NON-STORMWATER (INCLUDING SPILL REPORTING):

THE CONTRACTOR WILL PROVIDE ORANGE COUNTY PUBLIC WORKS WITH AN EROSION CONTROL PLAN FOR SPILLAGE OF HAZARDOUS MATERIALS ON A CASE BY CASE BASIS, WHICH SHALL BE BASED ON THE MSDS SHEET FOR SPILLED CHEMICAL. IF A SPILL DOES OCCUR, OR IF CONTAMINATED SOIL OR GROUNDWATER IS ENCOUNTERED, CONTACT TBD.

IV. MAINTENANCE:

- (1) THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AND REPAIRS OF EROSION AND SEDIMENT CONTROL DEVICES, AND REMOVAL OF EROSION AND SEDIMENT CONTROL DEVICES WHEN NOTICE OF TERMINATION IS MAILED.
- (2) INSTALLATION, MAINTENANCE, REPAIR AND REMOVAL REQUIRED FOR THE CONTROL AND ABATEMENT OF EROSION AND WATER POLLUTION SHALL BE INCLUDED IN THE INDIVIDUAL COSTS OF THE EROSION CONTROL DEVICES.
- (3) THE FOLLOWING PRACTICES WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS:

GENERAL - ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER. IF A REPAIR IS NECESSARY, IT WILL BE INITIATED IMMEDIATELY UPON NOTICE.
- (4) STRUCTURAL PRACTICES - BUILD UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE HALF OF THE HEIGHT OF THE FENCE. SODDING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH. SILT FENCES SHALL BE REPLACED EVERY TWELVE (12) MONTHS OR WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORMWATER FLOW OR DRAINAGE. STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO PREVENT CLOGGING OF ROCK BEDDING WHICH MAY IMPEDE THE USEFULNESS OF THE STRUCTURE.

V. INSPECTION:

- (1) THE CONTRACTOR SHALL INSTALL AND MAINTAIN RAIN GAUGES ON THE PROJECT SITE AND RECORD DAILY RAINFALL IN ACCORDANCE WITH THE DEP GENERIC PERMIT (NPDES). ALL CONTROL MEASURES WILL BE MAINTAINED DAILY BY THE CONTRACTOR.
- (2) ALL EROSION AND WATER POLLUTION ABATEMENT AND CONTROL MEASURES WILL BE INSPECTED EVERY 7 CALENDAR DAYS BY CONTRACTOR'S PERSONNEL WHO ARE F.D.E.P. CERTIFIED STORMWATER MANAGEMENT INSPECTORS.
- (3) THE CONTRACTOR SHALL COMPLETE ALL SWPPP INSPECTION REPORT FORMS REQUIRED FOR THE DEP GENERIC PERMIT (NPDES).

VI. TRACKING AND REPORTING:

- (1) THE CONTRACTOR SHALL SUBMIT A WEEKLY REPORT TO ORANGE COUNTY PUBLIC WORKS DOCUMENTING THE DAILY INSPECTIONS AND MAINTENANCE OR REPAIRS TO THE SEDIMENT CONTROL DEVICES. THE CONTRACTOR SHALL MAINTAIN ALL REQUIRED REPORTS AND COMPLETE ALL SWPPP INSPECTION FORMS.

R E V I S I O N S				 ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221	 ORANGE COUNTY GOVERNMENT FLORIDA	N. FORT CHRISTMAS RD. STORM WATER POLLUTION PREVENTION PLAN	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				47

TEMPORARY TRAFFIC CONTROL NOTES

- (1) TRAFFIC SHALL BE MAINTAINED IN ACCORDANCE WITH FDOT DESIGN STANDARDS, INDEX 102-600 SERIES.
- (2) THERE ARE NO TIME RESTRICTIONS FOR LANE CLOSURES; HOWEVER, A LANE MAY BE CLOSED ONLY DURING ACTIVE WORK PERIODS. A FULL ROADWAY CLOSURE IS PROHIBITED. ONE LANE MUST BE MAINTAINED AT ALL TIMES.
- (3) ACCESS TO ALL BUSINESSES AND RESIDENCES SHALL BE PROVIDED AT ALL TIMES.
- (4) THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS, IN ORDER TO FACILITATE EMERGENCY VEHICLE TRAFFIC.
- (5) THE FOLLOWING PROVIDES THE ANTICIPATED GOVERNING FDOT STANDARD INDICES FOR MOT DURING CONSTRUCTION, THIS WILL APPLY TO THE ENTIRE PROJECT LENGTH:
- ALL WORK ACTIVITIES SHALL MEET, AT MINIMUM, ALL REQUIREMENTS OF FDOT STANDARD INDEX 102-602 WHEN CLOSER THAN 15' BUT NOT CLOSER THAN 2' TO THE EDGE OF TRAVEL WAY.
- ALL WORK ACTIVITIES SHALL MEET, AT MINIMUM, ALL REQUIREMENTS OF FDOT STANDARD INDEX 102-603 WHEN BETWEEN THE ROADWAY CENTERLINE AND A LINE 2' OUTSIDE THE EDGE OF TRAVEL WAY.
- (6) ALL TEMPORARY PAVEMENT SHALL UTILIZE A FIRM AND UNYIELDING BASE WITH 2" ASPHALT PAVEMENT. PAVEMENT SHALL ADHERE TO PAVEMENT DESIGN FOR NEW ROADWAY. TEMPORARY PAVEMENT SHALL BE REPAIRED AS NEEDED OR AS DIRECTED BY THE ENGINEER AND PAYMENT SHALL BE INCLUDED IN THE LUMP SUM MAINTENANCE OF TRAFFIC.
- (7) FLAGGERS SHALL BE USED FOR ONE-WAY TRAFFIC ON THIS PROJECT. FLAGGERS MUST BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. (PER FDOT INDEX 102-600)

LEGEND:

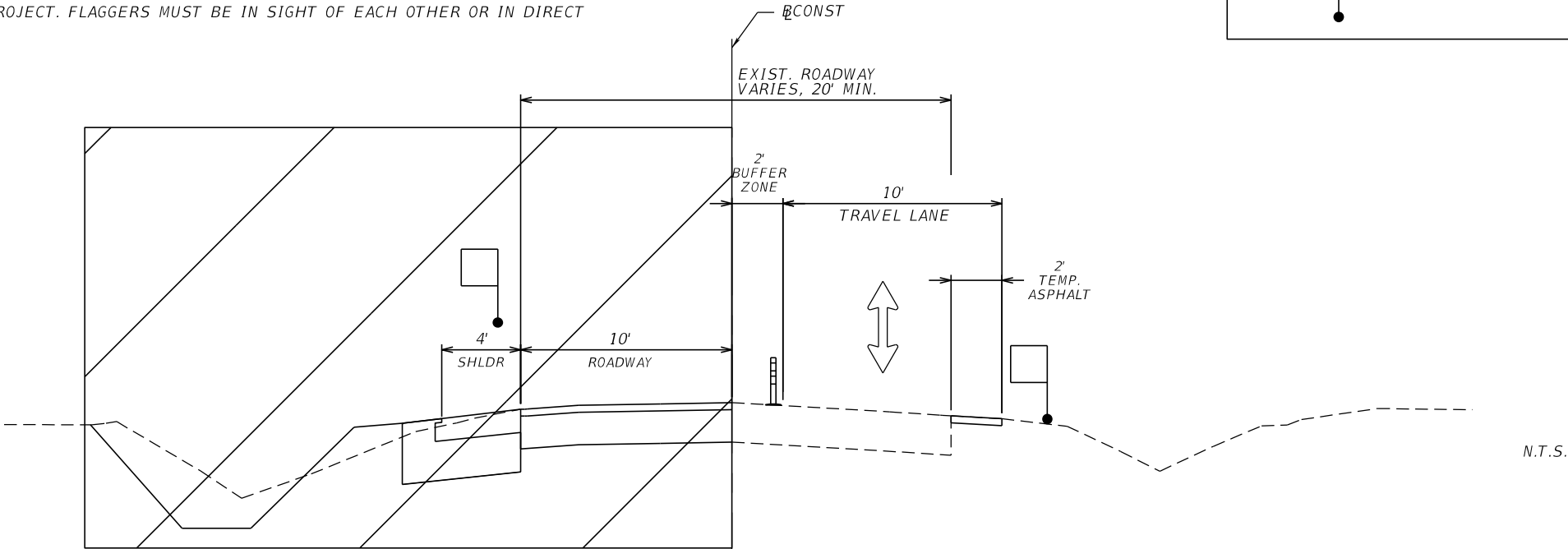
WORK ZONE

CHANNELIZING DEVICE

FLAGGER

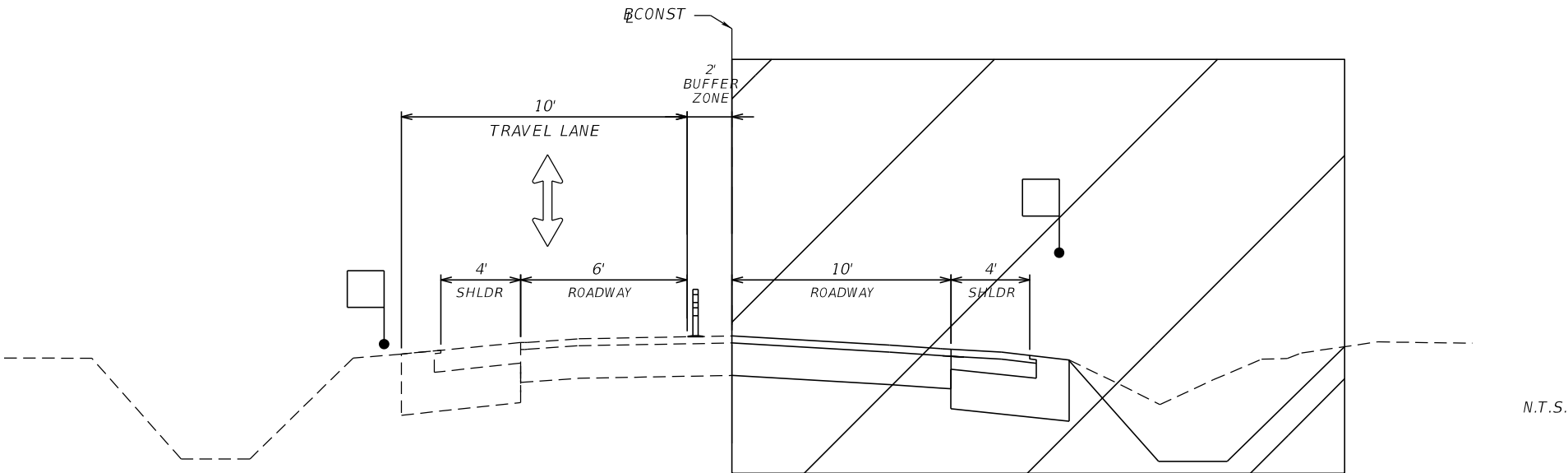
PHASE 1 MOT

MILLING AND RESURFACING
SHOULDER/DITCH CONSTRUCTION



PHASE 2 MOT

MILLING AND RESURFACING
SHOULDER/DITCH CONSTRUCTION



REVISIONS				AVCON ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221	AVCON, INC. 5555 MICHIGAN STREET, SUITE 200 ORLANDO, FLORIDA 32822-2779 PHONE: (407) 599-1122 FAX: (407) 599-1133 www.avconinc.com	ORANGE COUNTY GOVERNMENT FLORIDA	N. FORT CHRISTMAS RD. TEMPORARY TRAFFIC CONTROL GENERAL NOTES		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION						48

LEGEND:

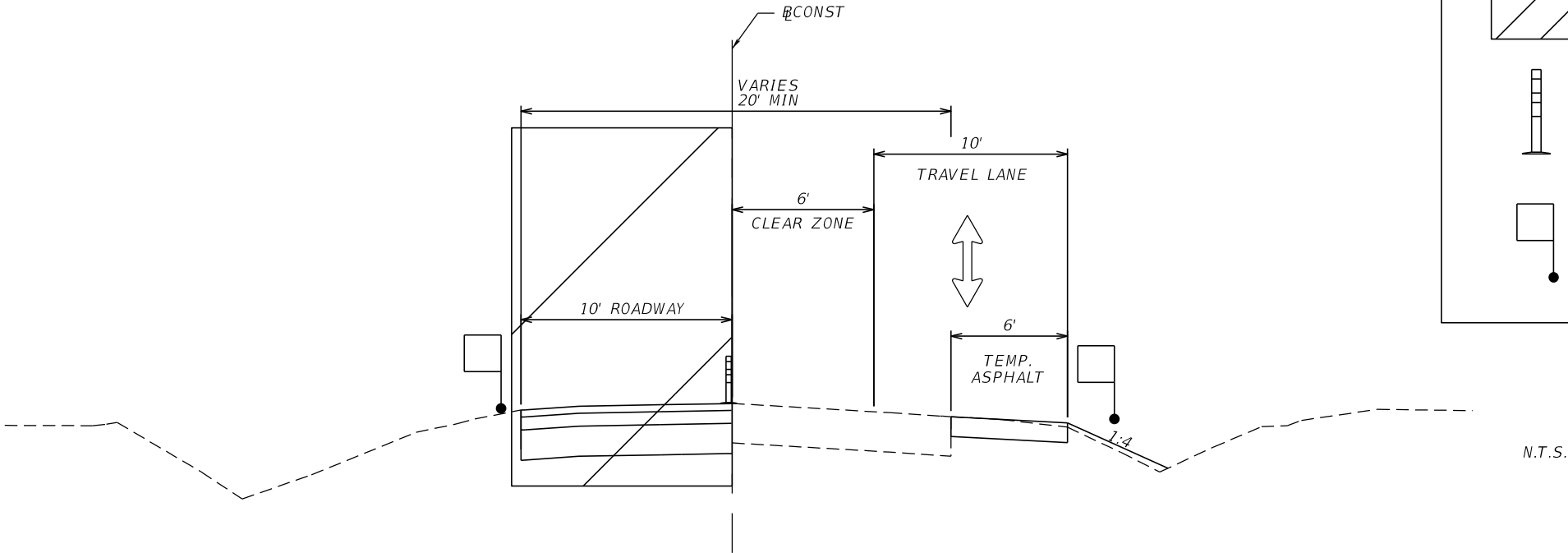
WORK ZONE

CHANNELIZING DEVICE

FLAGGER

PHASE 1 MOT

CONST. 10' LANE



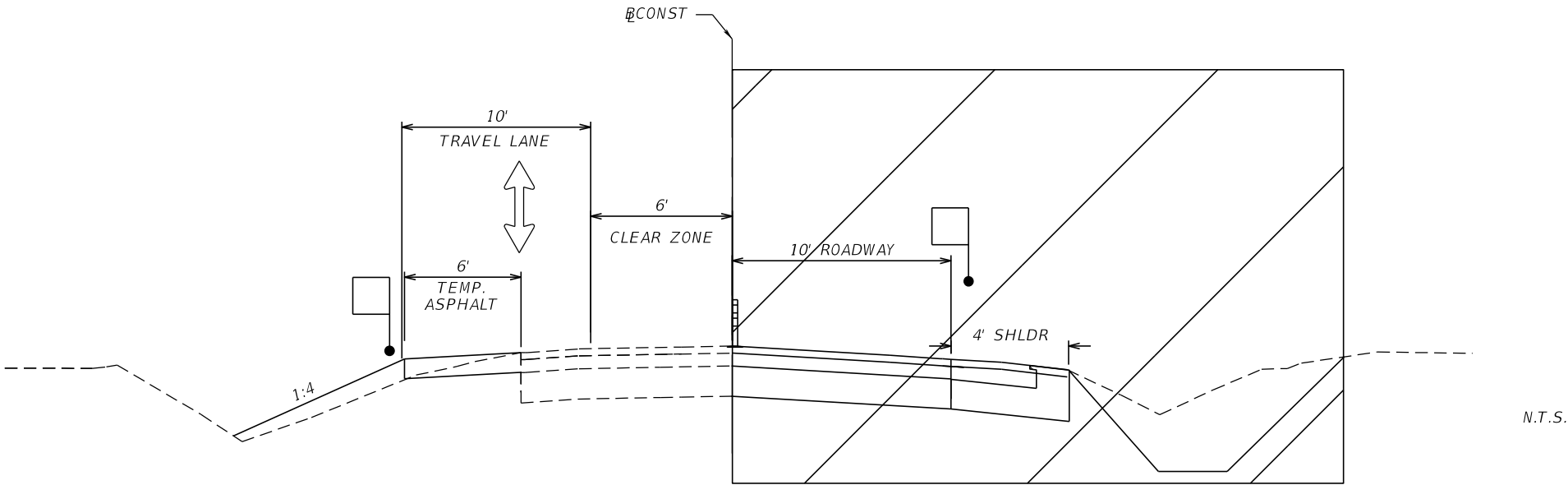
PHASE 2 MOT

CONST. 10' LANE

CONST. 4' PAVED SHOULDER

CONST. 2' UNPAVED SHOULDER

CONST. DITCH



PHASE 3 MOT

UTILIZE STANDARD MOT ON SHEET 48 TO

FINISH SHOULDER/DITCH CONSTRUCTION

ON EAST SIDE OF ROADWAY

NOTE:

ADJUST DITCHES & DRIVEWAY CONNECTIONS AS NECESSARY TO MAINTAIN POSITIVE

DRAINAGE & DRIVEWAY ACCESS AT ALL TIMES DURING CONST. ADD TEMP. DRAINAGE

PIPE/STRUCTURES AS NEEDED.

REVISIONS				AVCON, INC. 5555 MICHIGAN STREET, SUITE 200 ORLANDO, FLORIDA 32822-2779 PHONE: (407) 599-1122 FAX: (407) 599-1133 www.avconinc.com	ORANGE COUNTY GOVERNMENT FLORIDA	N. FORT CHRISTMAS RD. TEMPORARY TRAFFIC CONTROL RECONSTRUCTION DETAIL		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					
				ENGINEER OF RECORD: CLINT PLETZER, P.E., NO. 69221				49



SIGNING & MARKING PLANS FOR N. FORT CHRISTMAS RD SAFETY IMPROVEMENTS

(FROM LAZY H LANE TO LAKE PICKETT ROAD)

CONTRACT NO.: Y15-901-A

FPN: 437458-1-58-01

FAN: D518-008-B

DISTRICT NO: 5

ORANGE COUNTY, FLORIDA

SOURCE OF BENCHMARK DATUM



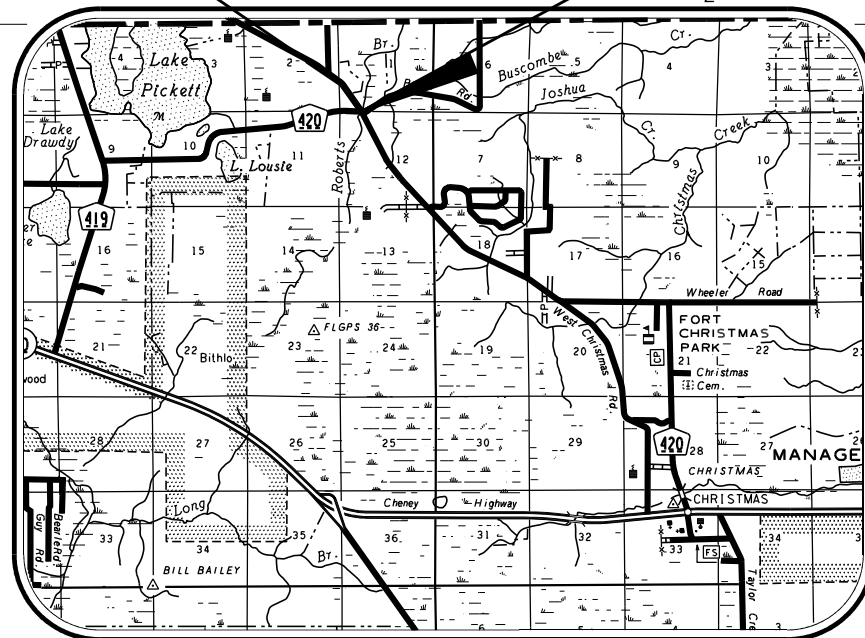
BENCHMARK S-750-008
RECOVERED "SQUARE" CUT IN
CENTERLINE OF 1' WIDE BRICK
HEADWALL ON NORTHEAST CORNER
OF FORT CHRISTMAS ROAD AND
LAZY H LANE, WITH 15" RCP;
SOUTH MOST OF TWO HEADWALLS,
TO DRIVE #4443 LAZY H LANE.
ELEVATION = 63.05'

SEE PROJECT LAYOUT SHEETS FOR
ADDITIONAL B.M. INFORMATION

PROJECT LENGTH:	FEET	MILES
ROADWAY:	1,975	0.374
EXIST. BRIDGES:	0.00	0.000
TOTAL LENGTH:	1,975	0.374

BEGIN PROJECT
BEGIN CONST.
STA. 100+10.00
@CONST FC

T 21 S
T 22 S



END PROJECT
END CONST.
STA. 119+84.93
@CONST FC

T 21 S
T 22 S

GOVERNING STANDARDS
AND SPECIFICATIONS :
FLORIDA DEPARTMENT OF TRANSPORTATION
STANDARD PLANS FOR ROAD AND BRIDGE
CONSTRUCTION, DATED 2018-2019 AND
ORANGE COUNTY SPECIFICATIONS, AS
AMENDED BY CONTRACT DOCUMENTS

T 22 S
T 23 S

R 32 E
R 33 E
VICINITY MAP

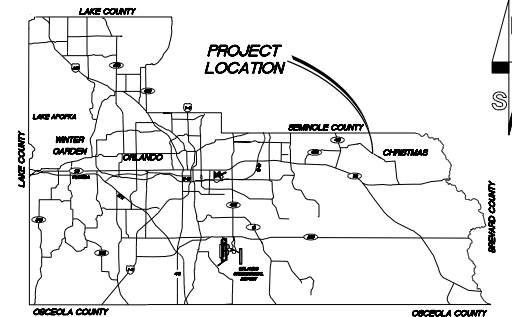
NOTE

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: 04/05/19 ENGINEER: EOR: CLINT PLETZER, P.E. NO. 69221



LOCATION MAP

INDEX OF SHEETS

SHEET	DESCRIPTION
S-1	KEY SHEET
S-2	TABULATION OF QUANTITIES
S-3	GENERAL NOTES
S-4 - S-7	SIGNING AND PAVEMENT MARKING PLAN

UTILITIES ENCOUNTERED

UTILITIES OWNER	TELEPHONE NUMBER
ATT&T DISTRIBUTION	(407) 351-8180
DUKE ENERGY FLORIDA, INC.	(352) 459-4671

PREPARED BY:



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

JERRY L. DEMINGS, COUNTY MAYOR

BOARD OF COUNTY
COMMISSIONERS

BETSEY VANDERLEY	DISTRICT 1
CHRISTINE MOORE	DISTRICT 2
MAYRA URIBE	DISTRICT 3
MARIBEL GOMEZ CORDERO	DISTRICT 4
EMILY BONILLA	DISTRICT 5
VICTORIA P. SIPLIN	DISTRICT 6
MARK MASSARO, P.E.	PUBLIC WORKS DIRECTOR

REVISIONS

DATE BY

DESIGNED BY: NJJ DATE: 04/05/19
DRAWN BY: NJJ DATE: 04/05/19
CHECKED BY: CJP DATE: 04/05/19
APPROVED BY: CJP DATE: 04/05/19
PROJECT NO: 437458-1-58-01

SHEET 1
OF 7

TABULATION OF QUANTITIES

[illegible]

NOTE:
 PROFILED THERMOPLASTIC PAVEMENT MARKINGS SHALL NOT BE INSTALLED UNTIL THE FINAL ASPHALT SURFACE HAS CURED FOR 30 DAYS.
 PAINTED PAVEMENT MARKINGS SHALL BE INSTALLED DURING THE CURE PERIOD. PAYMENT FOR ONE APPLICATION OF PAINTED PAVEMENT
 MARKINGS ON THE FINAL ASPHALT SURFACE SHALL BE INCLUDED IN THE BID PRICES FOR PROFILED THERMOPLASTIC PAVEMENT MARKINGS.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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

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



ORANGE COUNTY
GOVERNMENT
FLORIDA

N. FORT CHRISTMAS RD.
TABULATION OF QUANTITIES

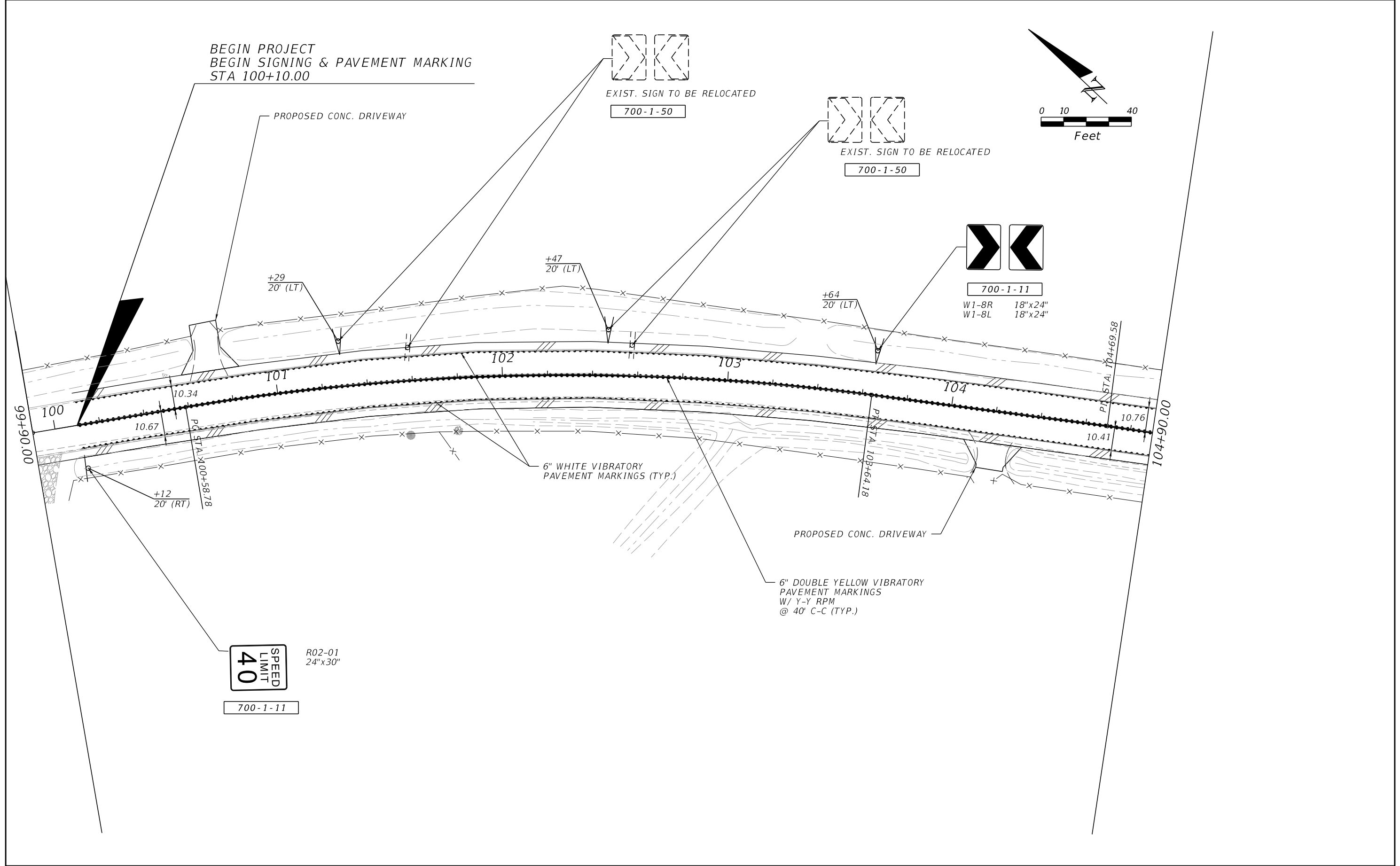
SHEET NO.

S-2

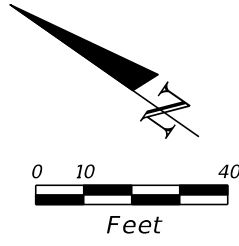
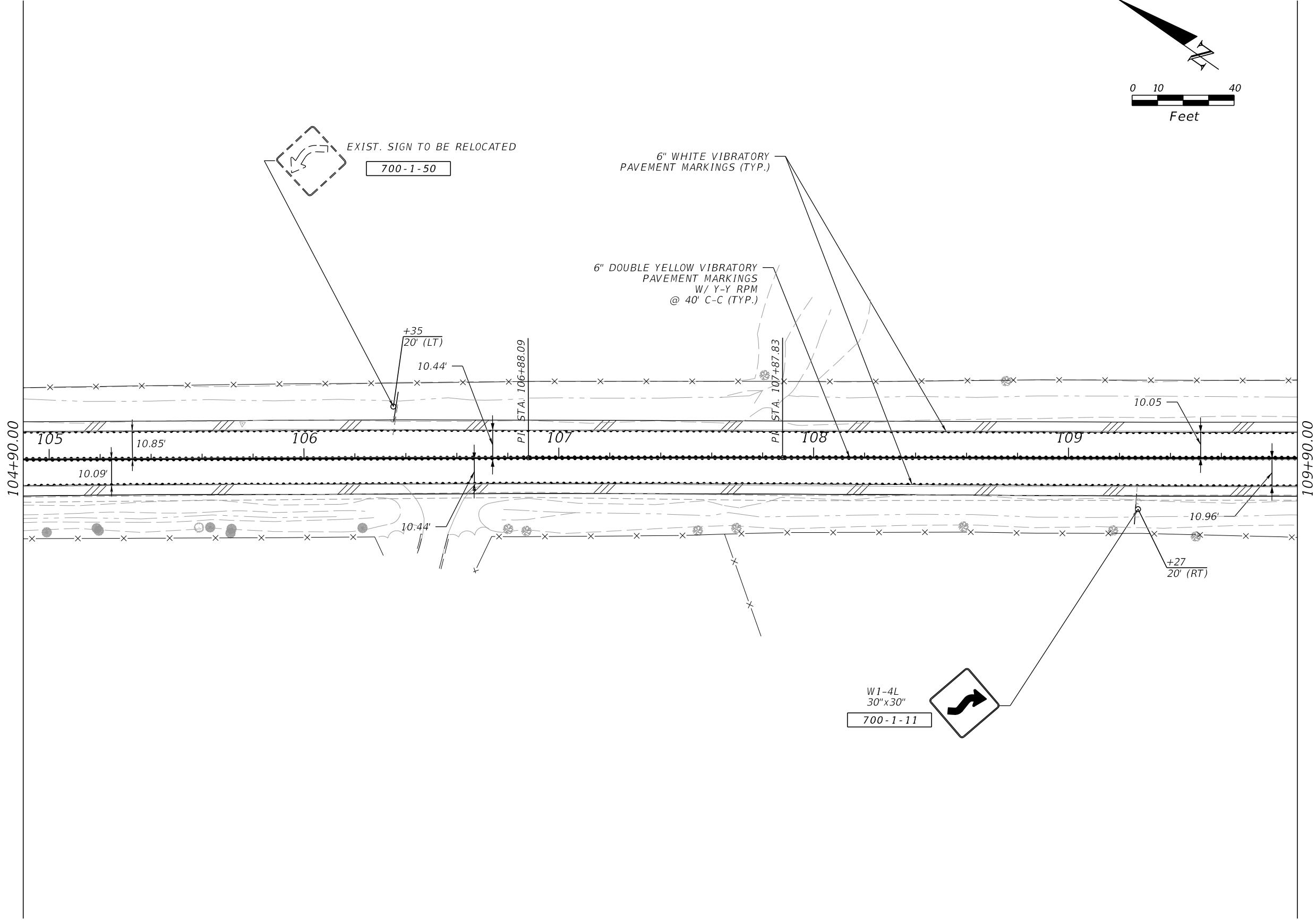
SIGNING & PAVEMENT MARKING NOTES

1.
- ALL PROJECT MARKINGS SHALL BE PROFILED THERMOPLASTIC PER FDOT STANDARD INDEX 711-001
2.
- THERMOPLASTIC PAVEMENT MARKINGS SHALL NOT BE INSTALLED UNTIL THE FINAL ASPHALT SURFACE HAS CURED FOR 30 DAYS. PAINTED MARKINGS SHALL BE INSTALLED DURING THE CURE PERIOD.
3.
- ALL REMOVED SIGNS AND THEIR SUPPORTS BECOME THE PROPERTY OF THE CONTRACTOR TO BE DISPOSED OF PROPERLY UNLESS OTHERWISE NOTED ON THE PLANS. THE CONTRACTOR IS TO MAINTAIN AND KEEP STREET NAME IDENTIFICATION VISIBLE DURING CONSTRUCTION OPERATIONS TO FACILITATE WAY FINDING FOR EMERGENCY VEHICLES.
4.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO REMOVE AND REPLACE ALL EXISTING SIGNS THAT CONFLICT WITH CONSTRUCTION OPERATIONS. IF SIGNS ARE DAMAGED BY THE CONTRACTOR, THE SIGNS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
5.
- ALL SIGNS ARE TO REMAIN UNLESS OTHERWISE NOTED ON THE PLANS.

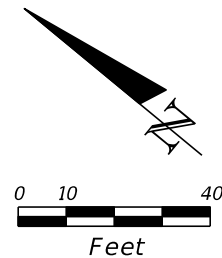
REVISIONS				AVCON ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221	ORANGE COUNTY GOVERNMENT FLORIDA	N. FORT CHRISTMAS RD. SIGNING & PAVEMENT MARKING GENERAL NOTES	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION				S-3



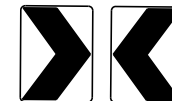
REVISIONS				AVCON, INC. 5555 MICHIGAN STREET, SUITE 200 ORLANDO, FLORIDA 32822-2779 PHONE: (407) 599-1122 FAX: (407) 599-1133 www.avconinc.com	ORANGE COUNTY GOVERNMENT FLORIDA	N. FORT CHRISTMAS RD. SIGNING & PAVEMENT MARKING PLAN		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					S-4
				ENGINEER OF RECORD: CLINT PLETZER, P.E. NO. 69221				



REVISIONS				AVCON, INC. 5555 MICHIGAN STREET, SUITE 200 ORLANDO, FLORIDA 32822-2779 PHONE: (407) 599-1122 FAX: (407) 599-1133 www.avconinc.com	ORANGE COUNTY GOVERNMENT FLORIDA	N. FORT CHRISTMAS RD. SIGNING & PAVEMENT MARKING PLAN		SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION					S-5
				ENGINEER OF RECORD: CLINT PLETZER, P.E., NO. 69221				



700-1-11
W1-8R 18"x24"
W1-8L 18"x24"



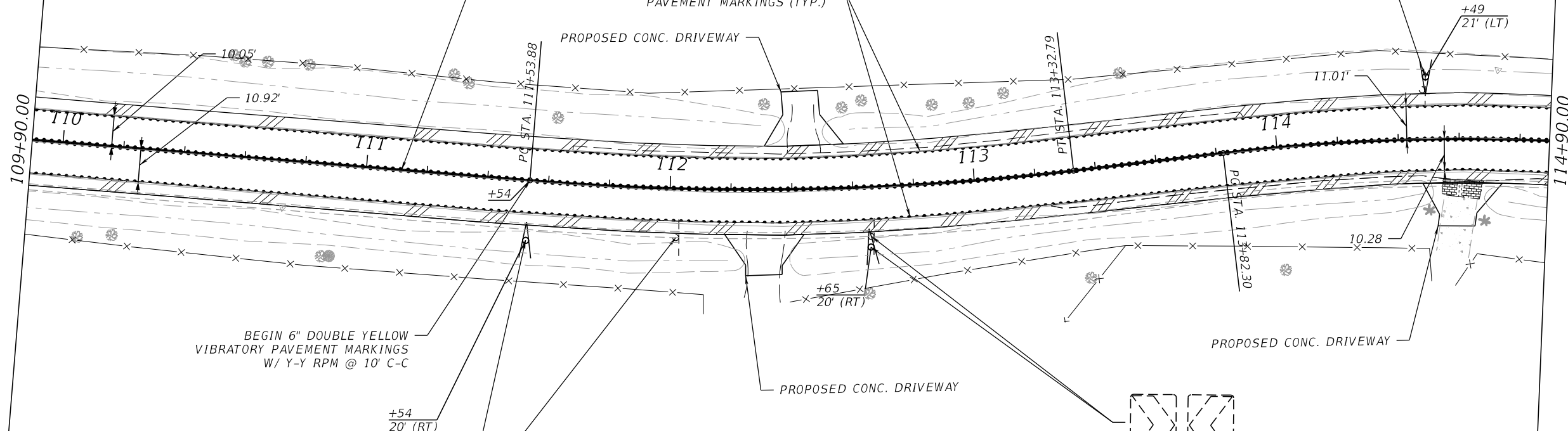
EXIST. SIGN
TO BE REPLACED

700-1-60

6" DOUBLE YELLOW VIBRATORY
PAVEMENT MARKINGS
W/ Y-Y RPM
@ 40' C-C (TYP.)

6" WHITE VIBRATORY
PAVEMENT MARKINGS (TYP.)

PROPOSED CONC. DRIVEWAY



BEGIN 6" DOUBLE YELLOW
VIBRATORY PAVEMENT MARKINGS
W/ Y-Y RPM @ 10' C-C

+54
20' (RT)



EXIST. SIGN TO BE RELOCATED

700-1-50



EXIST. SIGN TO BE RELOCATED

700-1-50

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION



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

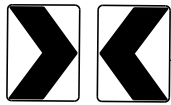
AVCON, INC.
5555 MICHIGAN STREET, SUITE 200
ORLANDO, FLORIDA 32822-2779
PHONE: (407) 599-1122
FAX: (407) 599-1133
www.avconinc.com



N. FORT CHRISTMAS RD.
SIGNING & PAVEMENT
MARKING PLAN

SHEET
NO.

S-6



700-1-11

W1-8R 18"x24"
W1-8L 18"x24"

0 10 40
Feet

END PROJECT
END SIGNING AND PAVEMENT MARKING
STA 119+84.93

6" WHITE VIBRATORY
PAVEMENT MARKINGS (TYP.)

700-1-11 W1-4L
30"x30"



700-1-60

EXIST. SIGN
TO BE REPLACED

SPEED
LIMIT
40

EXIST. SIGN
TO REMAIN

PROPOSED CONC. DRIVEWAY

+46
21' (LT)

6" DOUBLE YELLOW VIBRATORY
PAVEMENT MARKINGS
W/ Y-Y RPM
@ 40' C-C (TYP.)

+66
20' (LT)

10.45'

+66

116

117

118

10.87'

10.98'

PROPOSED CONC. DRIVEWAY

END 6" DOUBLE YELLOW
VIBRATORY PAVEMENT MARKINGS
W/ Y-Y RPM @ 10' C-C

114+90.00

PT. STA. 115+65.92

PT. STA. 117+89.27

PT. STA. 119+36.27

PQT. STA. 119+84.93

119+85.20 Ext. 4.80

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



N. FORT CHRISTMAS RD.
SIGNING & PAVEMENT
MARKING PLAN

SHEET
NO.

S-7