CONTRACT PLANS COMPONENTS

ROADWAY PLANS
SIGNING AND PAVEMENT MARKING PLANS
LANDSCAPING PLANS
STRUCTURE PLANS
UTILITY PLANS

INDEX OF ROADWAY PLANS

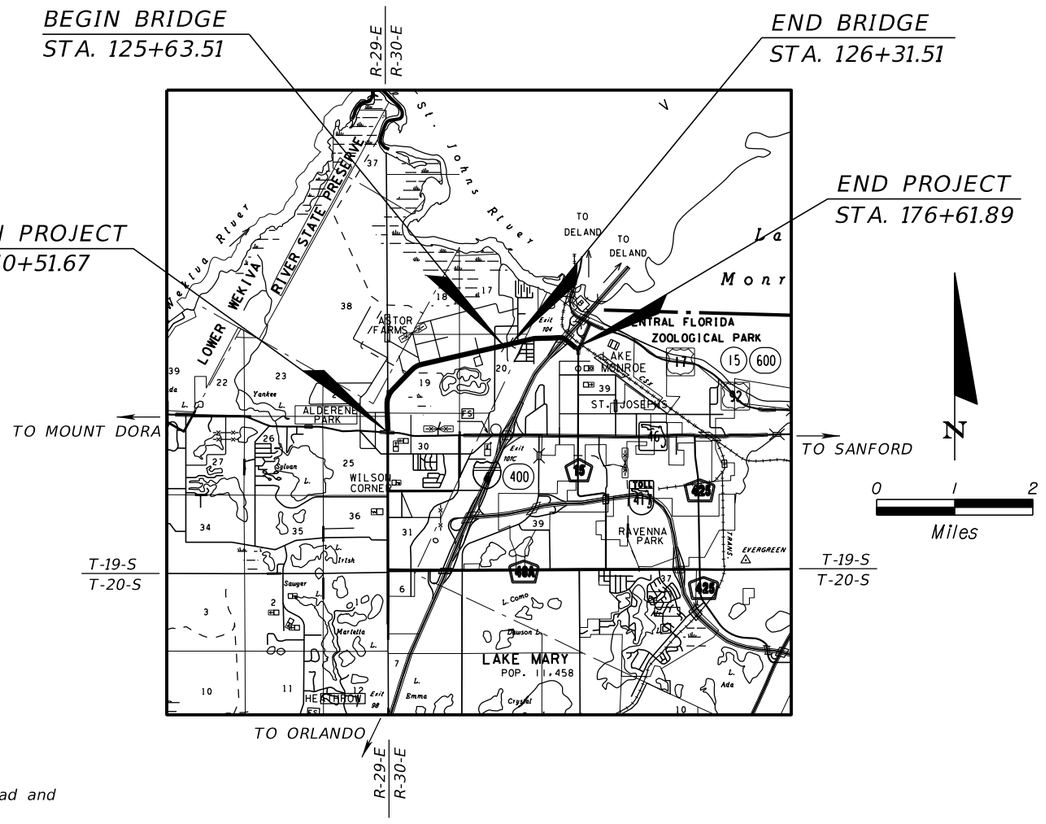
SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SIGNATURE SHEET
2A	SUMMARY OF PAY ITEMS
3-8	DRAINAGE MAP
9-10	EXISTING DRAINAGE STRUCTURES
11-15	TYPICAL SECTIONS
16A-34F	SUMMARY OF DRAINAGE STRUCTURES
35	GENERAL NOTES/SURVEY CONTROL
36-65	ROADWAY PLAN & PROFILE
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160-169	POND CROSS SECTIONS
170-172	DRAINAGE DETAIL
173-289A	CROSS SECTIONS
290-291	STORMWATER POLLUTION PREVENTION PLAN
292-402	TRAFFIC CONTROL PLAN
403-417	UTILITY ADJUSTMENTS
418-419	SUMMARY OF VERIFIED UTILITIES
SQ-1 - SQ-27	SUMMARY OF QUANTITIES
GR-1*	ROADWAY SOIL SURVEY

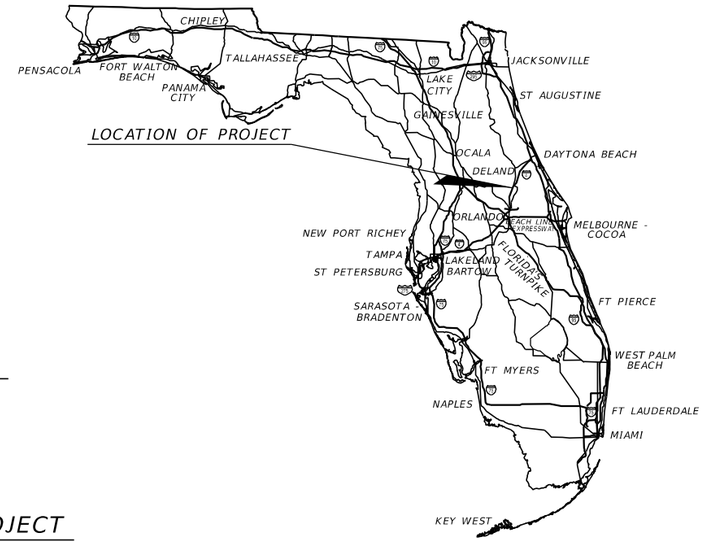
* This sheet is included in the Index of Roadway Plans only to indicate that it is part of the Roadway Plans. This sheet is contained in a separate digitally signed and sealed document.

SEMINOLE COUNTY PUBLIC WORKS

CONTRACT PLANS

CIP NO. 01785303
ORANGE BOULEVARD (CR 431)
FROM SR 46 TO MONROE ROAD (CR 15)
SEMINOLE COUNTY - DISTRICT 5





PLANS UPDATE
PRELIMINARY
NOT FOR CONSTRUCTION

SEMINOLE COUNTY CHAIRMAN
LEE CONSTANTINE

PUBLIC WORKS DIRECTOR
JEAN JREIJ, P.E.

BOARD OF COUNTY COMMISIOINERS

DISTRICT 1	BOB DALLARI
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DISTRICT 3	LEE CONSTANTINE
DISTRICT 4	AMY LOCKHART
DISTRICT 5	ANDRIA HERR

JASON FLICK, P.E. # 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
615 CRESCENT EXECUTIVE COURT, SUITE 106
LAKE MARY, FL 32746
TEL: (407) 833-9898
CONTRACT NO.: C9R61
VENDOR NO.: 52-0963531
CERTIFICATE OF AUTHORIZATION NO.: 5917

GOVERNING STANDARD PLANS:

Florida Department of Transportation, FY2025-26 Standard Plans for Road and Bridge Construction and applicable Interim Revisions (IRs).

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

Standard Plans for Bridge Construction are included in the Structures Plans Component.

GOVERNING STANDARD SPECIFICATIONS:

Florida Department of Transportation, FY 2025-26 Standard Specifications for Road and Bridge Construction at the following website: http://www.fdot.gov/programmanagement/Implemented/SpecBooks

COUNTY PROJECT MANAGER:

JOSEPH LOFASO, P.E.

CONSTRUCTION CONTRACT NO.	FISCAL YEAR	SHEET NO.
	25	1

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JASON R. FLICK
LICENSE
No 74741
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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ON THE DATE ADJACENT TO THE SEAL

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615 CRESCENT EXECUTIVE COURT,
SUITE 106
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION No.: 5917
JASON R. FLICK, P.E. NO. 74741

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

ROADWAY PLANS

SHEET NO.	SHEET DESCRIPTION
1	KEYSHEET
2	SIGNATURE SHEET
2A	SUMMARY OF PAY ITEMS
11 - 15	TYPICAL SECTIONS
35	GENERAL NOTES
36 - 65	ROADWAY PLAN & PROFILE
173 - 289	CROSS SECTIONS
292 - 402	TEMPORARY TRAFFIC CONTROL PLANS
403 - 417	UTILITY ADJUSTMENTS
418 - 419	SUMMARY OF VERIFIED UTILITIES
SQ-1 - SQ-27	SUMMARY OF QUANTITIES

STEVEN D. COLLINS
LICENSE
No 80872
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

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DRAINAGE PLANS

SHEET NO.	SHEET DESCRIPTION
2	SIGNATURE SHEET
3 - 10	DRAINAGE MAP
16A - 34F	SUMMARY OF DRAINAGE STRUCTURES
66 - 148	DRAINAGE STRUCTURES
149 - 159	POND DETAIL
160 - 169	POND CROSS SECTIONS
170 - 172	DRAINAGE DETAIL
290 - 291	STORMWATER POLLUTION PREVENTION PLAN

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SIGNATURE SHEET

SHEET NO. 2

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SUMMARY OF PAY ITEMS

ITEM No.	DESCRIPTION	UNIT	QUANTITY
	ROADWAY		
101 1	MOBILIZATION	LS	1
102 1	MAINTENANCE OF TRAFFIC	LS	1
110 1 1	CLEARING AND GRUBBING	AC	30.97
110 4 10	REMOVAL OF EXISTING CONCRETE	SY	4873
110 7 1	MAILBOX, F&I, SINGLE	EA	40
120 1	REGULAR EXCAVATION	CY	109130.1
120 6	EMBANKMENT	CY	26734.1
160 4	TYPE B STABILIZATION	SY	110771
285 701	OPTIONAL BASE GROUP 1	SY	17127
285 709	OPTIONAL BASE GROUP 9	SY	65481
285 710	OPTIONAL BASE GROUP 10	SY	14664
327 70 1	MILLING EXISTING ASPHALT PAVEMENT, 1" AVG. DEPTH	SY	494
327 70 6	MILLING EXISTING ASPHALT PAVEMENT, 1 1/2" AVG. DEPTH	SY	677
327 70 17	MILLING EXISTING ASPHALT PAVEMENT, 3 1/4" AVG. DEPTH	SY	718
334 1 12	SUPERPAVE ASPHALTIC CONC., TRAFFIC B	TN	11630.1
337 7 80	ASPHALT CONCRETE FRICTION COURSE, TRAFFIC B, FC-9.5, PG 76-22	TN	4539.6
400 0 11	CONCRETE CLASS NS, GRAVITY WALL	CY	110.0
400 1 2	CONCRETE CLASS I, ENDWALLS	CY	2.36
425 1331	INLETS, CURB, TYPE P-3, <10'	EA	98.00
425 1332	INLETS, CURB, TYPE P-3, >10'	EA	2.00
425 1431	INLETS, CURB, TYPE J-3, <10'	EA	25.0
425 1341	INLETS, CURB, TYPE P-4, <10'	EA	20.0
425 1441	INLETS, CURB, TYPE J-4, <10'	EA	5.0
425 1352	INLETS, CURB, TYPE P-5, <10'	EA	15.0
425 1451	INLETS, CURB, TYPE J-5, <10'	EA	1.0
425 1361	INLETS, CURB, TYPE P-6, <10'	EA	4.0
425 1521	INLETS, DT BOT, TYPE C,<10'	EA	36.0
425 1541	INLETS, DT BOT, TYPE D,<10'	EA	18.0
425 1581	INLETS, DT BOT, TYPE H,<10'	EA	1.0
425 2 41	MANHOLES, P-7, <10'	EA	37.0
425 2 71	MANHOLES, J-7, <10'	EA	30.0
425 10	YARD DRAIN	EA	88

SUMMARY OF PAY ITEMS

ITEM No.	DESCRIPTION	UNIT	QUANTITY
	ROADWAY		
430175118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"S/CD	LF	10541
430175124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"S/CD	LF	12785
430175130	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 30"S/CD	LF	2737
430175136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36"S/CD	LF	1235
430175142	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 42"S/CD	LF	405
430175148	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 48"S/CD	LF	300
430175218	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 18"S/CD	LF	490
430175224	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 24"S/CD	LF	1192
430175230	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 30"S/CD	LF	1357
430175236	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 36"S/CD	LF	998
430175242	PIPE CULVERT, OPTIONAL MATERIAL, OTHER SHAPE - ELLIP/ARCH, 42"S/CD	LF	447
430200 25	FLARED END SECTION, CONCRETE, 18"	EA	3
430200 29	FLARED END SECTION, CONCRETE, 24"	EA	9
430200 33	FLARED END SECTION, CONCRETE, 30"	EA	1
430200 38	FLARED END SECTION, CONCRETE, 36"	EA	1
430200 41	FLARED END SECTION, CONCRETE, 48"	EA	1
430530100	STRAIGHT CONCRETE ENDWALLS, 30", SINGLE, 0 DEGREES, ROUND	EA	1
430982125	MITERED END SECTION, OPTIONAL ROUND, 18" CD	EA	1
430982129	MITERED END SECTION, OPTIONAL ROUND, 24" CD	EA	1
440 1 10	UNDERDRAIN, TYPE I	LF	80
520 1 7	CONCRETE CURB & GUTTER, TYPE E	LF	12903
520 1 10	CONCRETE CURB & GUTTER, TYPE F	LF	32505
520 70	CONCRETE TRAFFIC SEPARATOR, SPECIAL - VARIABLE WIDTH	SY	1030
522 1	CONCRETE SIDEWALK AND DRIVEWAYS, 4" THICK	SY	7945
522 2	CONCRETE SIDEWALK AND DRIVEWAYS, 6" THICK	SY	3766
527 2	DETECTABLE WARNINGS	SF	880
550 10230	FENCING, TYPE B, 6.1-7.0', STANDARD	LF	7842
550 60233	FENCE GATE, TYPE B, SLIDING/CANTILEVER 12.1-18' OPENING	EA	1
550 60235	FENCE GATE, TYPE B, SLIDING/CANTILEVER 20.1-24' OPENING	EA	7
570 1 2	PERFORMANCE TURF, SOD	SY	27670

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

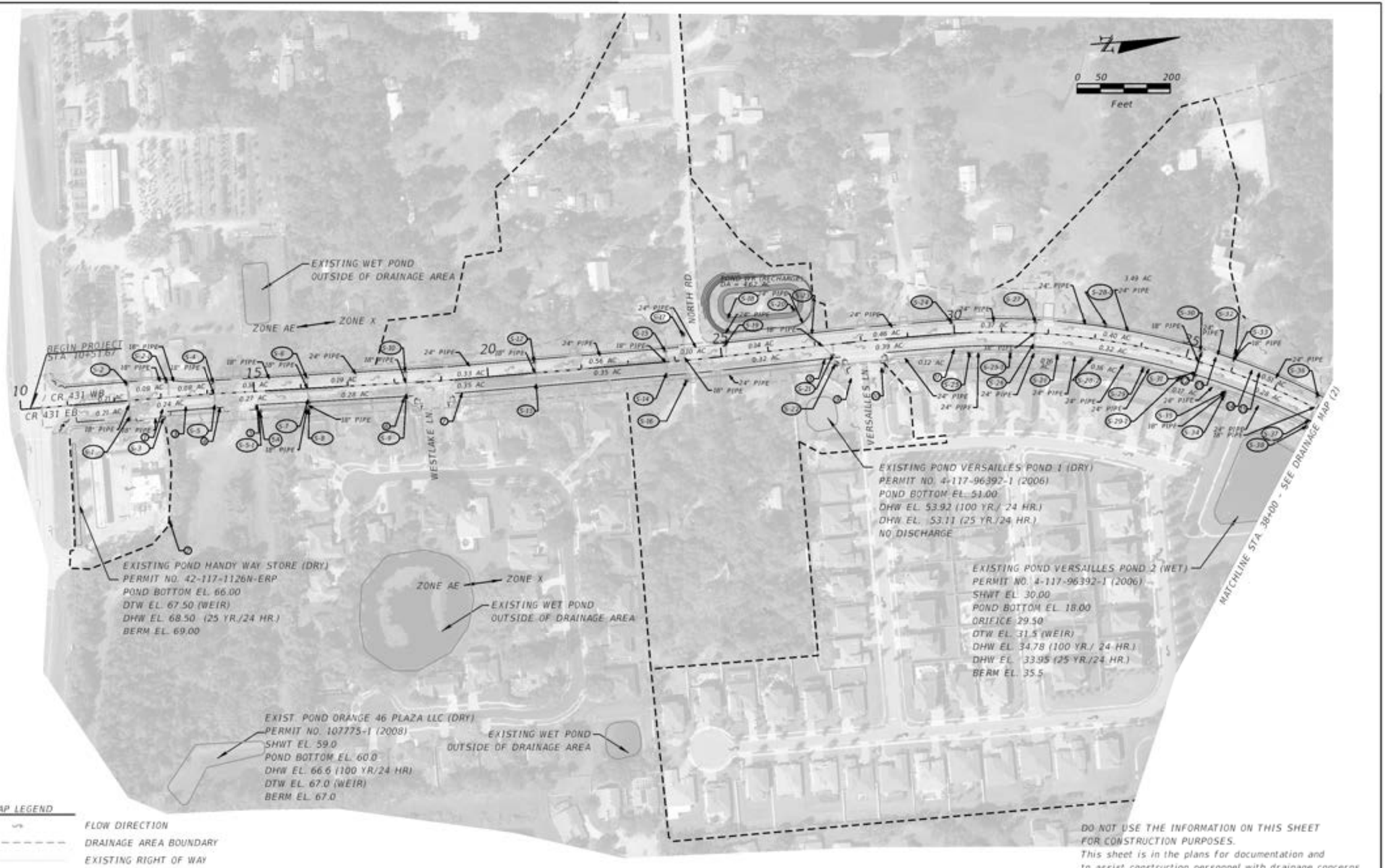
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CR 431	SEMINOLE	01785303

SUMMARY OF PAY ITEMS

SHEET NO. 2A

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MAP LEGEND

- FLOW DIRECTION
- DRAINAGE AREA BOUNDARY
- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- EXISTING WETLANDS

DO NOT USE THE INFORMATION ON THIS SHEET FOR CONSTRUCTION PURPOSES.
This sheet is in the plans for documentation and to assist construction personnel with drainage concerns.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
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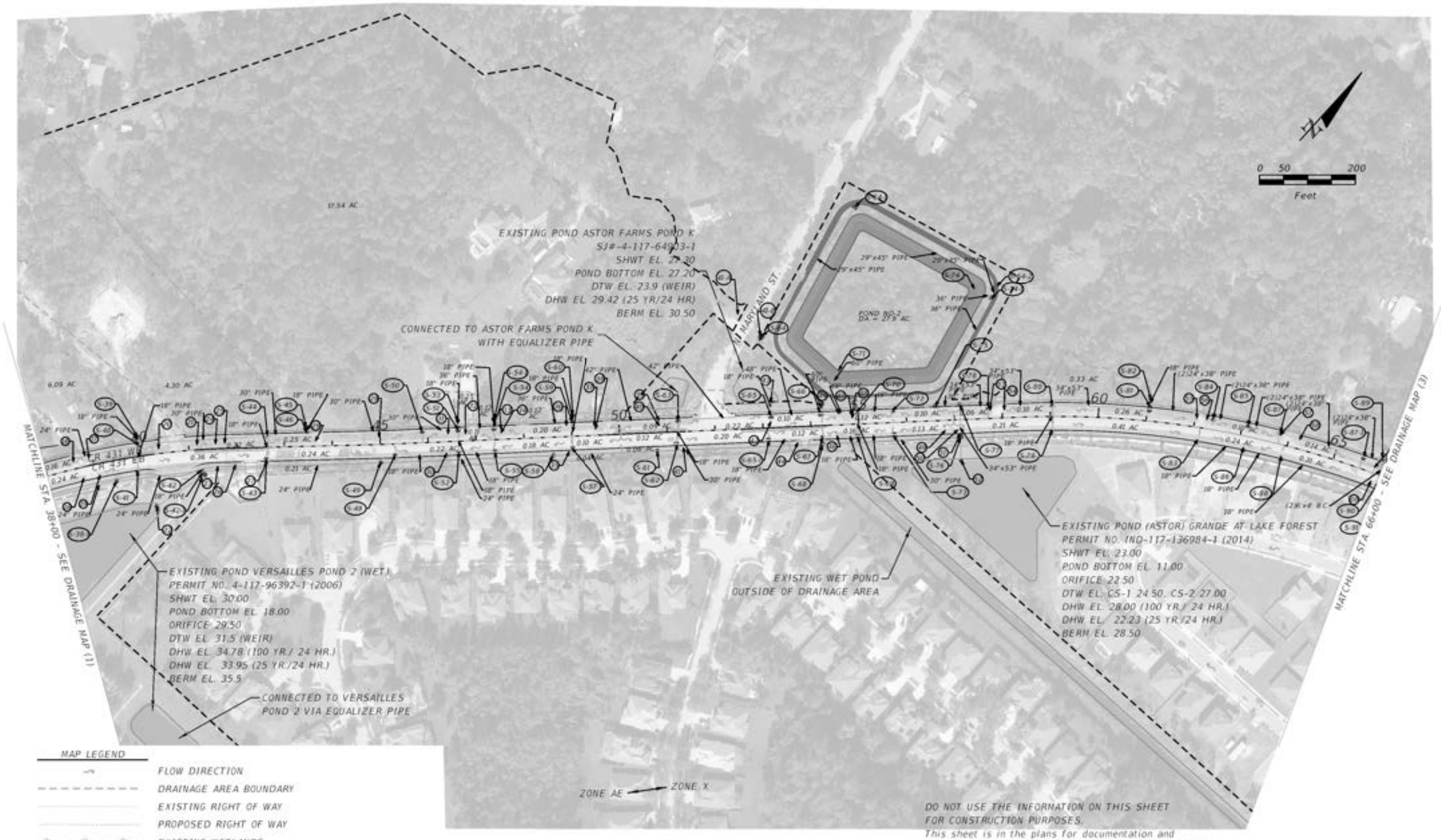
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE MAP

SHEET NO. 3

SFWMD
STWMD
SJRWMD



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

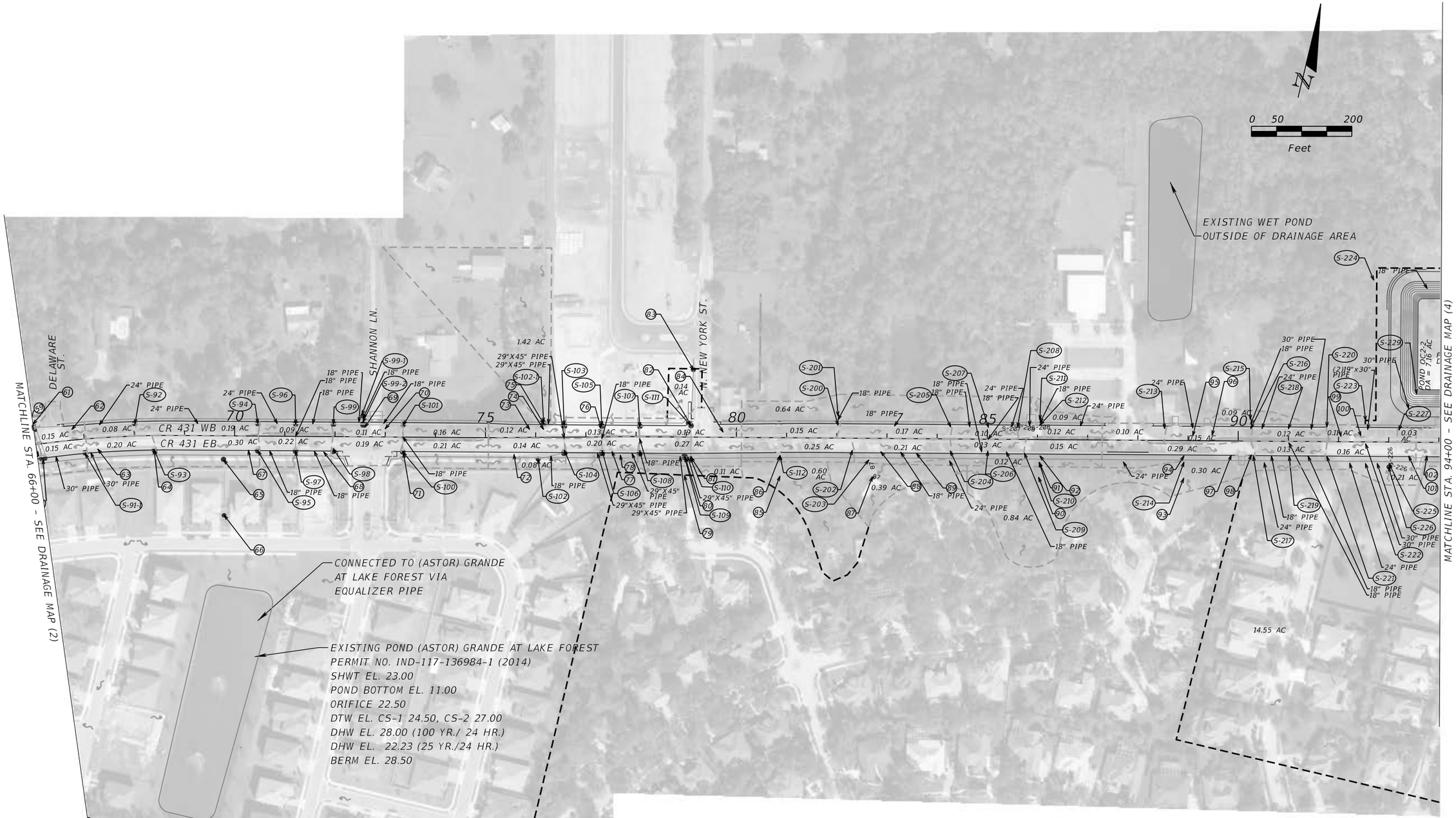
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CR 431	SEMINOLE	01785303

DRAINAGE MAP

SHEET NO. 4



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to assist construction personnel with drainage concerns.

MAP LEGEND

- FLOW DIRECTION
- DRAINAGE AREA BOUNDARY
- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- EXISTING WETLANDS

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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P.E. LICENSE NUMBER 80872
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400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
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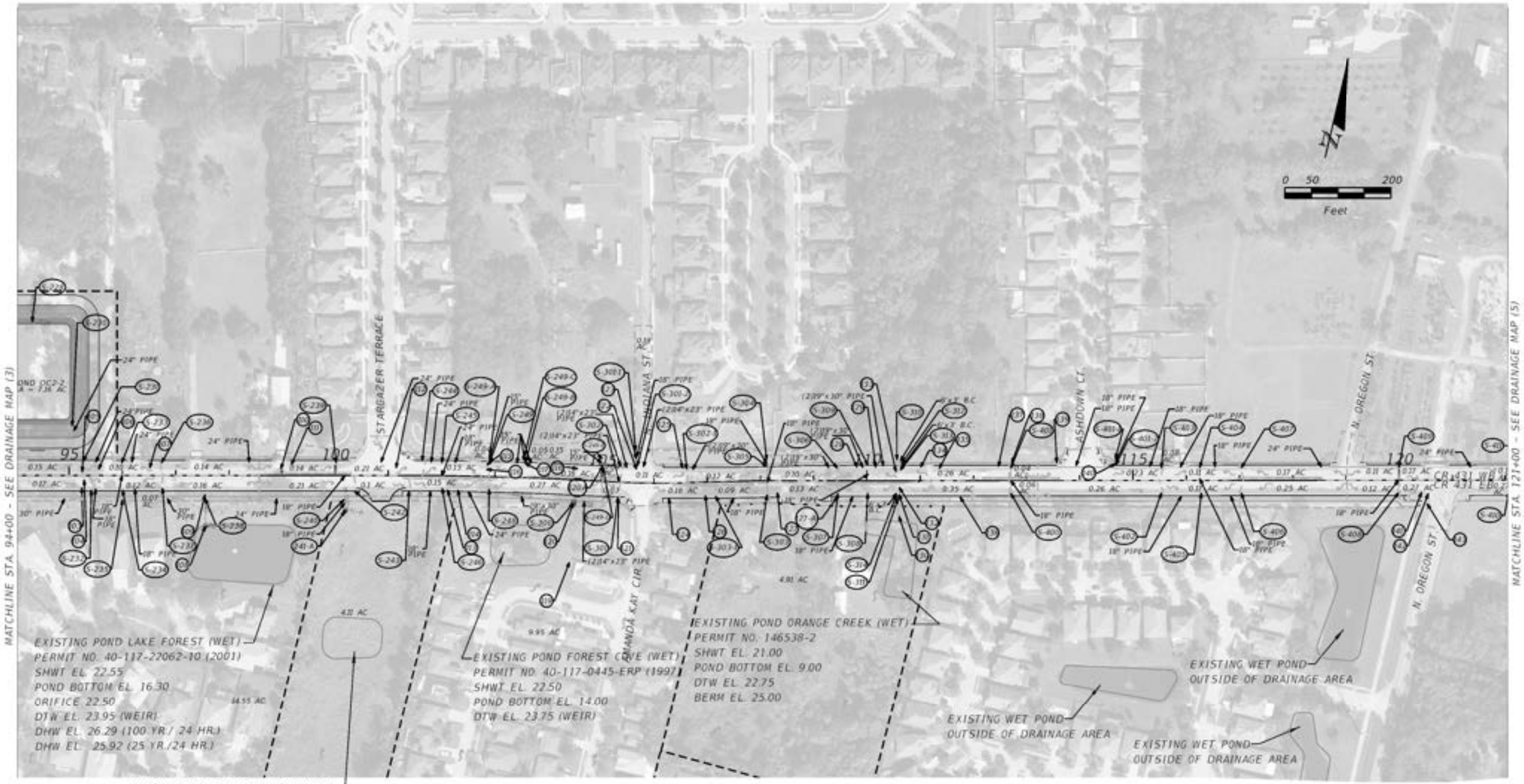
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE MAP

SHEET NO. 5

SFILES
STIMES
SDATES



MAP LEGEND

- FLOW DIRECTION
- DRAINAGE AREA BOUNDARY
- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- EXISTING WETLANDS

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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE MAP

SHEET NO. 6

SCALES
STRIKES
SOAKER

MAP LEGEND

- FLOW DIRECTION
- DRAINAGE AREA BOUNDARY
- EXISTING RIGHT OF WAY
- PROPOSED RIGHT OF WAY
- EXISTING WETLANDS

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N

0 50 200
Feet

POND LS-2
DA = 6.83 AC

EXISTING WET POND OUTSIDE DRAINAGE AREA

EXISTING WET POND OUTSIDE DRAINAGE AREA

ZONE X
ZONE A
ZONE A
ZONE X
ZONE X

24" PIPE
24" PIPE
24" PIPE
24" PIPE

DISCHARGE SMITH CANAL

50-YR WSEL
100-YR WSEL

BEGIN APPR SLAB
STA. 125+43.41

BEGIN BRIDGE
STA. 125+63.51

END BRIDGE
STA. 126+31.51

CR 431 WB
CR 431 EB

TRI-SSOURI AVE

BOUBBY LEE PT.

CONNIE LN

MATCHLINE STA. 122+00 - SEE DRAINAGE MAP (4)

MATCHLINE STA. 130+00 - SEE DRAINAGE MAP (6)

EXISTING POND BOOKERTOWN (DRI)
PERMIT NO. 42-117-0242G (1987)
POND BOTTOM EL. 7.65
OTW EL. 9.58 (WEIR)
BERM EL. 11.25

DUAL 4' PIPES

POND BOOKERTOWN
DA = 21.69 AC

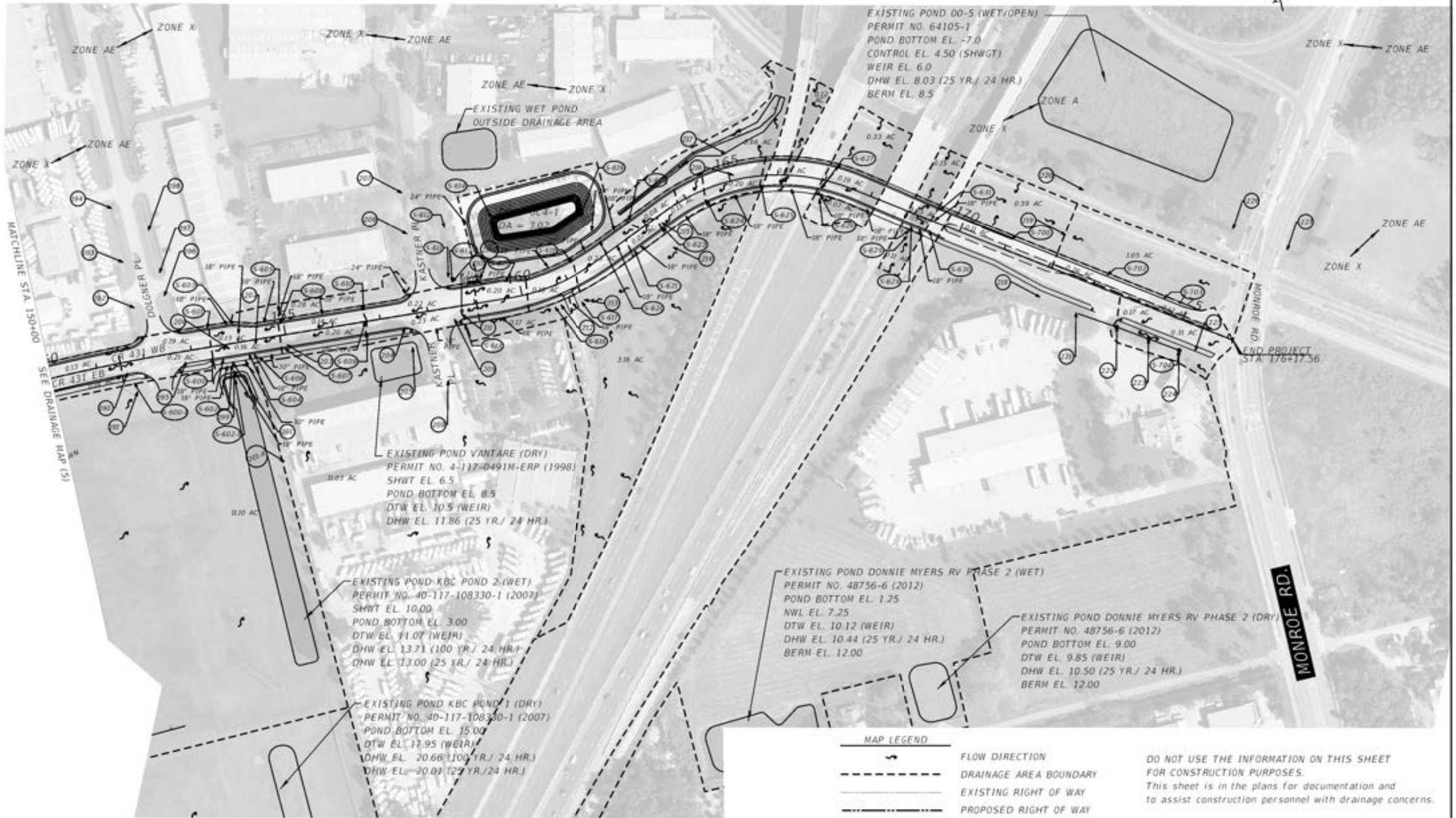
3.35 AC.

6.55 AC.

2.57 AC.

REVISIONS				STEVEN D. COLLINS, P.E., Ph.D. P.E. LICENSE NUMBER 80872 JMT - JOHNSON, MIRMIRAN & THOMPSON 400 COLONIAL CENTER PKWY., SUITE 100 LAKE MARY, FL 32746 CERTIFICATE OF AUTHORIZATION NO.: 5917	SEMINOLE COUNTY PUBLIC WORKS			DRAINAGE MAP	SHEET NO.
DATE	DESCRIPTION	DATE	DESCRIPTION		ROAD NO.	COUNTY	SEMINOLE COUNTY CIP		
					CR 431	SEMINOLE	01785303		7

SPILES
STINES
SOARES



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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JMT - JOHNSON, MIRMIRAN & THOMPSON
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE MAP

SHEET NO. 8

SPILES
STIRES
SOATES

EXISTING DRAINAGE STRUCTURES

(1) STA. 13+01.72, 24.24' RT
CATCH BASIN
TOP EL. = 67.03
BOTTOM EL. = 64.98
N. INV. EL. = 64.80
E. INV. EL. = 64.98

(2) STA. 12+97.22, 265.98' RT
24' STORM MANHOLE
TOP EL. = 69.20
W. INV. EL. = 65.70

(3) STA. 13+51.92, 22.73' RT
MES
INV. EL. = 64.78

(4) STA. 14+25.52, 30.30' RT
MITERED END SECTION
INV. EL. = 63.82 (19"x30" RCP)

(5) STA. 15+04.20, 28.75' RT
MITERED END SECTION
INV. EL. = 63.38 (19"x30" RCP)

(5A) STA. 15+10+55, 42.06' RT
CONCRETE SPILLWAY

(6) STA. 18+18.71, 32.66' RT
MES
INV. EL. = 62.99

(7) STA. 19+41.95, 29.96' RT
MES
INV. EL. = 62.84

(8) STA. 27+18.11, 30.65' RT
CATCH BASIN
TOP EL. = 52.68
BOTTOM EL. = 48.38
N. INV EL. = 48.14

(9) STA. 27+70.09, 76.67' RT
CONC CURB INLET
WITH 24" MANHOLE
TOP EL. = 52.77
BOTTOM EL. = 48.69
N. INV. EL. = 48.71
SE. INV. EL. = 48.64

(10) STA. 28+38.90, 60.32' RT
CONC CURB INLET
WITH 24" MANHOLE
TOP EL. = 52.72
BOTTOM EL. = 49.01
S. INV. EL. = 48.92

(11) STA. 29+97.37, 33.47' RT
MES
INV. EL. = 47.36

(12) STA. 35+28.56, 20.46' LT
INV. EL. = 38.41

(13) STA. 35+60.43, 19.87' LT
INV. EL. = 37.67

(14) STA. 36+40.78, 19.93' LT
INV. EL. = 36.35

(15) STA. 36+56.98, 19.77' LT
INV. EL. = 36.44

(16) STA. 38+59.13, 15.31' LT
INV. EL. = 34.38

(17) STA. 38+92.58, 15.26' LT
INV. EL. = 33.81

(18) STA. 38+73.06, 22.62' RT
MES
INV. EL. = 34.36

(19) STA. 39+07.85, 24.11' RT
MES
INV. EL. = 33.71

(20) STA. 40+37.96, 10.09' LT
INV. EL. = 31.91

(21) STA. 41+17.27, 10.31' LT
INV. EL. = 30.68

(22) STA. 40+18.01, 108.70' RT
DRAINAGE CONTROL
STRUCTURE
TOP EL. = 32.91
N. INV. EL. = 29.88

(23) STA. 41.58.80, 36.32' RT
MES
INV. EL. = 29.92

(24) STA. 41+55.78, 9.91' LT
INV. EL. = 29.76

(25) STA. 41+74.80, 10.87' LT
INV. EL. = 29.19

(26) STA. 41+96.36, 34.45' RT
MES
INV. EL. = 29.38

(27) STA. 42+613.49, 31.63' RT
MES
INV. EL. = 29.10

(28) STA. 43+65.20, 10.30' LT
INV. EL. = 28.38

(29) STA. 44+97.73, 15.31' LT
INV. EL. = 25.91

(30) STA. 46+38.00, 24.11' RT
MES
INV. EL. = 25.52

(31) STA. 46+42.80, 16.13' LT
MES
INV. EL. = 25.68

(32) STA. 46+78.70, 14.50' LT
24" STORM MANHOLE
TOP EL. = 29.12
BOTTOM EL. = 25.22
NE. INV. EL. = 25.47
SW. INV. EL. = 25.52

(33) STA. 47+53.22, 21.11' LT
CATCH BASIN
TOP EL. = 27.87
BOTTOM EL. – 25.50
SE. INV. EL. = 25.45

(34) STA. 47+53.22, 14.19' LT
24" STORM MANHOLE
TOP EL. = 29.23
BOTTOM EL. = 25.33
NE. INV. EL. = 25.32
SW. INV. EL. = 25.38
NW. INV. EL. = 25.33

(35) STA. 48+91.85, 31.56' RT
CATCH BASIN
TOP EL. = 27.77
BOTTOM EL. – 25.11
NE. INV. EL. = 25.12
SW. INV. EL. = 25.12

(36) STA. 48+89.74, 23.23' LT
18" HDPE PIPE
END INV. = 26.13

(37) STA. 49+48.89, 19.64' LT
CATCH BASIN
TOP EL. = 27.83
BOTTOM EL. = 25.03
SE. INV. EL. = 24.96
SW. INV. EL. = 25.15

(38) STA. 49+50.15, 13.32' LT
24" STORM MANHOLE
TOP EL. = 29.12
BOTTOM EL. = 25.03
NE. INV. EL. = 25.02
SW. INV. EL. = 25.06
NW. INV. EL. = 25.04

(39) STA. 50+84.04, 24.85' LT
CATCH BASIN
TOP EL. = 27.37
BOTTOM EL. = 25.37
SE. INV. EL. = 25.01

(40) STA. 50+84.04, 14.62' LT
24" STORM MANHOLE
TOP EL. = 28.98
BOTTOM EL. = 24.73
NE. INV. EL. = 24.73
SW. INV. EL. = 24.73
NW. INV. EL. = 24.85

(41) STA. 51+32.66, 33.14' RT
CATCH BASIN
TOP EL. = 27.43
BOTTOM EL. = 24.97
NE INV. EL = 24.97
SW INV EL. = 24.97

(41-A) STA. 52+57.90, 239.26' LT
MITERED END SECTION
DUAL 18" RCP
N INV. EL = 24.74
S INV EL. = 24.64

(41-B) STA. 53+2.82, 192.83' LT
MITERED END SECTION
DUAL 18" RCP
N INV. EL = 25.18
S INV EL. = 25.19

(42) STA. 53+17.45, 12.75' LT
24" STORM MANHOLE
TOP EL. = 28.58
BOTTOM EL. = 24.28
NE. INV. EL. = 24.28
SW. INV. EL. = 24.28
NW. INV. EL. = 24.98

(43) STA. 53+17.45, 53.56' LT
CATCH BASIN
TOP EL. = 8.36
SE. INV. EL. = 25.30

(44) STA. 53+71.73, 33.18' RT
CATCH BASIN
TOP EL. = 26.91
BOTTOM EL. = 24.59
NE INV. EL = 24.59
SW INV EL. = 24.59

(45) STA. 54+59.88, 22.97' LT
MES
INV. EL. = 25.20

(46) STA. 54+53.56, 21.70' RT
CATCH BASIN
TOP EL. = 27.90
BOTTOM EL. = 24.45
NE INV. EL = 24.45
SW INV EL. = 24.46

(47) STA. 54+85.89, 18.29' LT
CATCH BASIN
TOP EL. = 27.51
BOTTOM EL. = 24.46
SW. INV. EL. = 24.11
SE. INV. EL. = 24.29

(48) STA. 54+85.89, 14.23' LT
24" STORM MANHOLE
TOP EL. = 28.16
BOTTOM EL. = 24.16
NE. INV. EL. = 24.11
SW. INV. EL. = 24.14
NW. INV. EL. = 24.30

(49) STA. 56+79.95, 21.05' RT
18" RCP

(50) STA. 57+06.16, 20.85' RT
MITERED END SECTION
INV. EL. = 23.98

(51) STA. 57+11.01, 29.24' RT
24" STORM MANHOLE
TOP EL. = 27.08
BOTTOM EL. = 23.39
SE. INV. EL. = 24.01
NW. 0.6'x1.0' OPENING = 25.51

(52) STA. 57+11.01, 84.81' RT
CATCH BASIN
TOP EL. = 25.85
NW INV. EL = 23.98

(53) STA. 57+75.02, 16.72' LT
INV. EL. = 24.12

(54) STA. 58+04.55, 16.56' LT
INV. EL. = 24.25

(55) STA. 62+04.01, 18.48' LT
INV. EL. = 23.31

(56) STA. 62+24.72, 19.19' LT
INV. EL. = 23.46

(57) STA. 63+80.87, 19.00' LT
MES
INV. EL. = 22.99

(58) STA. 64+21.62, 19.61' LT
MES
INV. EL. = 22.66

(59) STA. 65+86.11, 12.89' LT
9.20'x9.20' BOX CULVERT
INV EL. = 16.63

(60) STA. 65+89.39, 16.91' RT
INV. EL. = 19.52

(61) STA. 56+02.85, 40.75' LT
INV. EL. = 21.35

(62) STA. 66+77.20, 21.16' LT
INV. EL. = 21.75

(63) STA. 67+25.45, 22.21' RT
CATCH BASIN
TOP EL. = 25.77
BOTTOM EL. = 20.10
SW. INV. EL. = 20.07
NE. INV. EL. = 20.12

(64) STA. 68+39.07, 27.81' RT
CATCH BASIN
TOP EL. = 25.65
BOTTOM EL. = 20.48
W. INV. EL. = 20.47
E. INV. EL. = 20.49

(65) STA. 69+78.21, 46.85' RT
24" STORM MANHOLE
TOP EL. = 27.35
BOTTOM EL. = 20.60
W. INV. EL. = 20.70
NE. INV. EL. = 20.50
S. INV. EL. = 20.52

(66) STA. 69+78.21, 158.04' RT
24" STORM MANHOLE
TOP EL. = 26.95
N. INV. EL. = 21.58

(67) STA. 70+27.38, 28.19' RT
CURB INLET WITH
24" STORM MANHOLE
TOP EL. = 26.42
BOTTOM EL. = 20.59
SW. INV. EL. = 20.62
E. INV. EL. = 20.57

(68) STA. 71+77.49, 30.61' RT
CURB INLET WITH
24" STORM MANHOLE
TOP EL. = 26.42
BOTTOM EL. = 20.79
W. INV. EL. = 20.77
E. INV. EL. = 20.82

(69) STA. 72+59.13, 18.61' LT
INV. EL. = 21.54

(70) STA. 72+99.71, 16.23' LT
INV. EL. = 22.53

(71) STA. 73+35.21, 29.25' RT
CURB INLET WITH
24" STORM MANHOLE
TOP EL. = 26.44
W. INV. EL. = 21.00
E. INV. EL. = 21.12

(72) STA. 75+56.71, 33.76' RT
CURB INLET WITH
24" STORM MANHOLE
TOP EL. = 26.45
BOTTOM EL. = 21.62
W. INV. EL. = 21.60
E. INV. EL. = 21.64

(73) STA. 75+85.94, 15.76' LT
MES
INV EL. = 23.52

(74) STA. 76+15.98, 15.53' LT
CATCH BASIN
TOP EL. = 26.04
BOTTOM EL. = 22.36
WATER EL. = 22.85
W. INV EL. = 22.85
E. INV EL. = 22.85
N. INV EL. = 23.31

(75) STA. 76+15.98, 25.80' LT
MES
INV EL. = 23.46

(76) STA. 77+30.29, 17.62' LT
CATCH BASIN
TOP EL. = 25.71
BOTTOM EL. = 22.00
WATER EL. = 22.49
E. INV. EL. = 22.49
W. INV. EL. = 22.52

(77) STA. 77+51.72, 28.98' RT
24" STORM MANHOLE
(UNDER CONSTRUCTION)

(78) STA. 77+68.35, 35.42' RT
24" STORM MANHOLE
TOP EL. = 26.54
NW. INV. EL. = 22.52
E. INV. EL. = 22.34

(79) STA. 78+96.82, 74.85' RT
CONCRETE CATCH BASIN
WITH METAL GRATE
TOP EL. = 24.92
BOTTOM EL. = 23.47
N. INV EL. = 23.12

(80) STA. 78+69.82, 39.48' RT
24" STORM MANHOLE
TOP EL. = 27.26
W. INV. EL. = 22.03
E. INV. EL. = 22.33
S. INV. EL. = 22.02

(81) STA. 79+09.65, 39.79' RT
24" STORM MANHOLE
TOP EL. = 27.88
BOTTOM EL. = 20.36
WATER EL. = 22.10
E. INV EL. = 21.67
W. INV EL. = 22.06
N. INV IS OPEN

(82) STA. 79+09.65, 22.93' LT
24" STORM MANHOLE
TOP EL. = 27.49
BOTTOM EL. = 20.91
WATER EL. = 21.97
N. INV EL. = 21.92
W. INV. EL. = 21.93
S. INV IS OPEN

(83) STA. 79+13.57, 133.67' LT
CATCH BASIN
TOP EL. = 26.33
BOTTOM EL. = 20.34
N. INV EL. = 21.07
S. INV EL. = 21.09

(84) STA. 79+73.28, 10.31' LT
MITERED END SECTION
INV EL. = 22.31

(85) STA. 80+87.53, 75.61' RT
24"x24" METAL GRATE
TOP EL. = 24.58
N. INV EL. = 22.80

(86) STA. 80+87.53, 35.42' RT
24" STORM MANHOLE
TOP EL. = 26.80
E. INV. EL. = 22.22
S. INV EL. = 22.60
W. INV EL. = 22.22

(87) STA. 82+71.74, 76.25' RT
CATCH BASIN
TOP EL. = 24.99
BOTTOM EL. = 22.55
WATER EL. = 23.27
N. INV EL. = 22.37

(88) STA. 82+87.91, 26.19' RT
24" STORM MANHOLE
TOP EL. = 25.99
E. INV. EL. = 21.49
W. INV EL. = 21.48

(89) STA. 83+57.88, 29.25' RT
MITERED END SECTION
INV. EL. = 21.25

(90) STA. 86+01.78, 74.82' RT
15" DIAMETER INLET GRATE ON
20" DIAMETER CONCRETE STRUCTURE
TOP EL. = 24.33
BOTTOM EL. = 22.18
N. INV EL. = 22.19

(91) STA. 86+03.56 45.44' RT
15" RCP

(92) STA. 86+04.27, 32.27' RT
INV. EL. = 22.12

(93) STA. 88+92.25, 42.79' RT
3.0'x 2.3' DITCH
BOTTOM INLET
TOP EL. = 23.03
BOTTOM EL. = 21.33
WATER EL. = 22.11
N. INV EL. = 21.20

(94) STA. 88+92.25, 30.61' RT
INV. EL. = 21.38

(95) STA. 89+09.44, 9.52' LT
INV. EL. = 21.67

(96) STA. 89+48.06, 11.09' LT
INV. EL. = 20.51

(97) STA. 89+86.37, 28.40' RT
MITERED END SECTION
INV. EL. = 21.45

(98) STA. 90+26.59, 27.24' RT
MITERED END SECTION
INV. EL. = 21.42

(99) STA. 92+04.91, 27.24' LT
INV. EL. = 20.65

(100) STA. 92+44.57, 11.43' LT
INV. EL. = 19.98

(101) STA. 93+39.88, 27.61' RT
MITERED END SECTION
INV. EL. = 20.84

(102) STA. 93+76.30, 27.16' RT
MITERED END SECTION
INV. EL. = 20.86

(103) STA. 95+24.62, 22.01' RT
TOP OF BOX
CULVERT EL. = 24.97

(104) STA. 95+24.62, 9.83' RT
8' WIDE
BOX CULVERT

(105) STA. 95+24.62, 6.84' LT
TOP OF BOX
CULVERT EL. = 24.98

(106) STA. 95+55.37, 11.67' LT
MITERED END SECTION
INV. EL. = 20.57

(107) STA. 96+51.13, 14.23' LT
CURB INLET
TOP EL. = 24.93
BOTTOM EL. = 21.13
E. INV. EL. = 20.63
W. INV EL. = 20.68

(108) STA. 97+55.18, 95.06' RT
CATCH BASIN
TOP EL. = 24.71
N. INV. EL. = 21.66

(109) STA. 97+55.18, 35.66' RT
MITERED END SECTION
INV. EL. = 21.18

(110) STA. 98+98.12, 12.47' LT
24" STORM MANHOLE
TOP EL. = 25.04
BOTTOM EL. = 20.94
NE. INV. EL. = 20.79
E. INV. EL. = 20.19
W. INV EL. = 20.24

(111) STA. 99+18.07, 20.37' LT
20" DIAMETER
YARD DRAIN GRATE
TOP EL. = 22.90
SW. INV. EL. = 21.22

(112) STA. 101+14.65 14.20' LT
24" STORM MANHOLE
TOP EL. = 24.51
N. INV. EL. = 19.53
E. INV. EL. = 19.73
W. INV EL. = 19.68

(113) STA. 102+12.16, 26.65' RT
INV. EL. = 22.99

(114) STA. 102+31.20, 26.25' RT
INV. EL. = 23.16

(115) STA. 102+84.55, 21.85' LT
18" DIAMETER
METAL GRATE
TOP EL. = 23.51
S. INV. EL. = 20.01

(116) STA. 102+84.55, 13.63' LT
24" STORM MANHOLE
TOP EL. = 24.65
(FALLS IN TRAVEL LANE)

(117) STA. 103+56.05, 26.74' LT
18" DIAMETER
METAL GRATE
(TOP BROKEN)
(FULL OF DIRT)
TOP EL. = 23.68

(118) STA. 104+54.53, 21.33' LT
CURB INLET
TOP EL. = 24.62
E. INV. EL. = 20.54
W. INV. EL. = 20.37

(119) STA. 104+48.26, 154.65' RT
–

(120) STA. 104+48.26, 43.37' RT
MITERED END
SECTIION
INV. EL. = 21.05

(120A) STA. 105+01.69, 29.17' LT
18" DIAMETER
METAL GRATE
TOP EL. = 24.07
W. INV. EL. = 21.25

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

EXISTING DRAINAGE STRUCTURES

SHEET NO. 9

2/27/2025 2:03:55 PM G:\2017\1710782_002_Orange_Blvd_(CR_431)\Orange_Blvd_CADD\drainage\DRMPRD12.dgn

EXISTING DRAINAGE STRUCTURES

(121) STA. 105+34.73, 30.33' RT
MITERED END
SECTIION
INV. EL. = 21.14

(122) STA. 105+66.76, 25.50' LT
24" STORM MANHOLE
TOP EL. = 24.58
N. INV. EL. = 20.78
E. INV. EL. = 20.80
W. INV. EL. = 20.78

(123) STA. 105+66.76, 44.76' LT
MITERED END
SECTIION
INV. EL. = 20.89

(124) STA. 106+27.66, 28.58' RT
24" STORM MANHOLE
TOP EL. = 25.32
E. INV. EL. = 21.04
W. INV EL. = 21.09

(125) STA. 106+54.45, 27.23' LT
MITERED END
SECTIION
INV. EL. = 20.90

(126) STA. 106+95.92, 25.13' RT
CATCH BASIN
TOP EL. = 23.77
E. INV. EL. = 19.61
W. INV EL. = 19.70

(127) STA. 108+31.77, 22.14' RT
24" STORM MANHOLE
TOP EL. = 24.99
E. INV. EL. = 19.35
W. INV EL. = 19.34

(127-A) STA. 109+43.89, 25.66' RT
24" STORM MANHOLE
TOP EL. = 24.05
E. INV. EL. = 19.24
W. INV EL. = 19.21

(128) STA. 109+81.81, 24.79' LT
MITERED END
SECTIION
INV. EL. = 21.26

(129) STA. 110+16.45, 25.22' LT
MITERED END
SECTIION
INV. EL. = 21.04

(130) STA. 110+60.29, 66.47' RT
CATCH BASIN
(IN POND)
INV. EL. = 19.51

(131) STA. 110+60.29, 26.14' RT
CATCH BASIN
TOP EL. = 24.51
TOP OF WEIR EL. = 20.89
N. INV. EL. = 18.26
E. INV. EL. = 19.19
S. INV. EL. = 19.21
W. INV. EL. = 19.20

(132) STA. 110+60.29, 12.26' RT
36" RCP
(BOX CULVERT)

(133) STA. 110+60.29, 15.44' LT
CONCRETE HEADWALL
TOP EL. = 24.07
S. INV. EL. = 19.25

(134) STA. 111+00.94, 25.15' LT
MITERED END SECTIION
INV. EL. = 20.07

(135) STA. 111+35.72, 23.01' LT
CATCH BASIN
TOP EL. = 22.37
E. INV. EL. = 20.12
W. INV. EL. = 20.11

(136) STA. 111+74.99, 30.58' RT
CATCH BASIN
TOP EL. = 22.80
W. INV. EL. = 19.98

(137) STA. 112+47.93, 26.60' LT
24" STORM MANHOLE
TOP EL. = 23.18
E. INV. EL. = 19.98
W. INV EL. = 19.98

(138) STA. 112+72.76, 33.02' LT
CATCH BASIN
TOP EL. = 22.46
E. INV. EL. = 20.20
W. INV. EL. = 20.20

(139) STA. 113+57.49, 32.92' LT
CATCH BASIN
TOP EL. = 23.01
BOTTOM EL. = 19.96
E. INV. EL. = 20.48
W. INV. EL. = 20.31

(140) STA. 114+68.06, 31.52' LT
CATCH BASIN
TOP EL. = 22.56
W. INV. EL. = 20.48

(141) STA. 120+42.42, 22.75' RT
MITERED END SECTION
INV. EL. = 20.64

(142) STA. 120+55.13, 25.06' RT
CATCH BASIN
TOP EL. = 22.94
W. INV. EL. = 21.02
S. INV EL. = 21.02

(143) STA. 120+55.13, 43.75' RT
MITERED END SECTION
INV. EL. = 20.64

(144) STA. 124+27.20, 18.87' RT
MITERED END SECTION
INV. EL. = 20.95

(145) STA. 124+65.64, 19.17' RT
MITERED END SECTION
INV. EL. = 20.67

(146) STA. 125+01.03, 21.09' RT
CATCH BASIN
TOP EL. = 20.49
N. INV. EL. = 16.96

(147) STA. 125+01.03, 19.95' LT
CATCH BASIN
TOP EL. = 21.47
NE. INV. EL. = 15.77
S. INV. EL. = 16.35

(148) STA. 125+81.97, 38.56' LT
MITERED END SECTION
INV. EL. = 13.93

(149) STA. 126+33.09, 338.59' LT
CATCH BASIN
TOP EL. = 19.08
BOTTOM EL. = 11.33

(150) STA. 126+89.97, 554.14' LT
CATCH BASIN
TOP EL. = 18.94
INV. EL. = 16.31

(151) STA. 127+11.49, 625.23' LT
INV. EL. = 16.60

(152) STA. 127+30.70, 611.04' LT
ENDWALL
INV. EL. = 15.49

(153) STA. 126+19.71, 39.57' LT
MITERED END SECTION
INV. EL. = 13.53

(154) STA. 126+82.73, 19.71' LT
CATCH BASIN
TOP EL. = 21.71
NW. INV. EL. = 14.87
S. INV. EL. = 16.41

(155) STA. 126+74.59, 19.86' RT
CATCH BASIN
TOP EL. = 21.84
N. INV. EL. = 17.04

(156) STA. 128+01.90, 19.52' RT
CATCH BASIN
TOP EL. = 22.68
E. INV. EL. = 20.75
W. INV. EL. = 20.83

(157) STA. 130+24.13, 13.49' RT
MITERED END SECTION
INV. EL. = 20.88

(157-A) STA. 135+59.00, 225.80' RT
CATCH BASIN
CENTER OF GRATE EL.=20.59
E. INV. EL.=17.21
N. INV. EL.=17.13

(158) STA. 137+09.79, 19.35' RT
INV. EL. = 16.12

(159) STA. 137+36.93, 20.49' RT
24' STORM MANHOLE
N. RIM EL. = 19.19
E. INV. EL. = 16.18
SW. INV. EL. = 16.18
N. INV. EL. = 16.24

(159-A) STA. 137+31.79, 211.39' RT
24" STORM MANHOLE
N. RIM EL.=21.14
E. INV. EL.=16.69
W. INV. EL.=16.64

(160) STA. 137+71.92, 29.47' RT
24' STORM MANHOLE
N. RIM EL. = 19.34
NE. INV. EL. = 15.80
SW. INV. EL. = 15.80
W. INV. EL. = 16.09

(161) STA. 137+82.95, 26.37' RT
INV. EL. = 15.52

(162) STA. 138+61.88, 29.08' RT
INV. EL. = 15.30

(163) STA. 138+92.26, 31.18' RT
INV. EL. = 14.93

(164) STA. 140+48.95, 35.18' RT
INV. EL. = 12.65

(165) STA. 140+68.71, 34.46' RT
INV. EL. = 12.57

(166) STA. 141+47.88, 17.19' LT
CURB GRATE INLET
TOP E. = 14.14
E. INV. EL. = 11.10

(167) STA. 141+47.88, 28.17' RT
INV. EL. = 11.75

(168) STA. 141+64.18, 30.15' RT
INV. EL. = 11.05

(169) STA. 142+04.40, 29.02' RT
INV. EL. = 10.70

(170) STA. 142+34.06, 211.84' LT
CATCH BASIN
TOP EL. = 12.34
N. INV. EL. = 7.82

(171) STA. 142+51.77, 357.17' LT
TOP EL. = 10.05
INV EL. = 6.77

(172) STA. 143+26.47, 21.71' RT
INV. EL. = 9.48

(173) STA. 143+37.77, 27.23' LT
MITERED END SECTION
INV. EL. = 10.32

(174) STA. 143+89.50, 27.84' LT
CONCRETE
SPILLWAY

(175) STA. 143+89.50, 21.81' LT
CURB GRATE INLET
TOP EL. = 11.78
E. INV. EL. = 8.96
N. INV. EL. = 10.21

(176) STA. 144+72.30, 27.71' LT
24" STORM MANHOLE
N. RIM EL. = 11.75
E. INV. EL. = 7.51
W. INV. EL. = 7.51

(177) STA. 145+07.94, 5.67' RT
INV. EL. = 7.29

(178) STA. 145+40.39, 6.33' RT
INV. EL. = 6.94

(179) STA. 145+52.72, 36.01' LT
24" STORM MANHOLE
N. RIM EL. = 11.10
BOTTOM EL. = 5.89
N. INV. EL. = 6.17 (EAST PIPE)
N. INV. EL. = 6.17 (WEST PIPE)
SE. INV. EL. = 5.40
S. INV. EL. = 6.90
W. INV. EL. = 5.89

(179-A) STA. 146+22.10, 2.53' LT
36" RCP
INV. ELEV. = 5.53

(179-B) STA. 146+31.13, 0.47' RT
30" CMP
INV. ELEV. = 6.01

(180) STA. 146+59.77, 3.04' RT
24" STORM MANHOLE
TOP EL. 9.96
E. INV. EL. = 6.72 (18" CMP)
SE. INV. EL. = 6.61 (8" DIP)
S. INV. EL. = 5.18 (24" CMP)
W. INV EL. = 5.78 (30" CMP)

(181) STA. 146+59.77, 51.08' RT
24" STORM MANHOLE
TOP EL. 10.68
N. INV. EL. = 6.85 (24" CMP)
W. INV. EL. = 6.46 (TO POND)
SE. INV. EL. = 7.06 (8" DIP)

(182) STA. 146+90.10, 52.90' RT
TOP OF GRATE EL. 9.45

(183) STA. 146+50.65, 162.12' RT
INV. EL. 7.45

(183-A) STA. 146+07.59, 315.02' RT
INV. EL. 10.46

(183-B) STA. 146+13.53, 199.83' RT
INV. EL. 9.01

(184) STA. 146+86.11, 162.18' RT
INV. EL. 7.33

(185) STA. 147+72.55, 5.59' RT
CONCRETE DITCH
WITH MITERED PIPE
INV. EL. = 6.00

(186) STA. 148+12.92, 11.00' RT
24" STORM MANHOLE
N. RIM EL. = 9.97
BOTTOM EL. = 5.95
E. INV. EL. = 5.95
S. INV. EL. = 5.95
W. INV. EL. = 5.95

(187) STA. 148+12.92, 30.67' RT
CATCH BASIN
N. TOP EL. = 9.44
BOTTOM EL. = 6.49
N. INV. EL. = 6.49
S. INV. EL. = 6.54

(188) STA. 149+67.93, 14.95' RT
CURB INLET WITH
24" STORM MANHOLE
N. RIM EL. = 9.68
BOTTOM EL. = 5.68
E. INV. EL. = 5.68
W. INV. EL. = 5.68
S. INV. EL. = 5.68

(189) STA. 149+67.93, 28.22' RT
CATCH BASIN
N. TOP EL. = 9.14
BOTTOM EL. = 5.91
N. INV. EL. = 5.91

(190) STA. 151+61.46, 22.71' RT
CURB INLET WITH
24" STORM MANHOLE
N. RIM EL. = 9.63
BOTTOM EL. = 5.61
E. INV. EL. = 5.61
W. INV. EL. = 5.61
S. INV. EL. = 5.61

(191) STA. 151+74.21, 64.95' RT
CATCH BASIN
N. TOP EL. = 9.17
BOTTOM EL. = 5.80
N. INV. EL. = 5.80

(192) STA. 152+00.12, 107.51' LT
CATCH BASIN
TOP EL. = 7.52
N. INV. EL. = -1.35

(193) STA. 152+00.12, 205.68' LT
CATCH BASIN
TOP EL. = 6.98
S. INV. EL. = -1.59
N. INV. EL. = -1.57

(194) STA. 152+00.12, 320.33' LT
CATCH BASIN
TOP EL. = 6.96
S. INV. EL. = -1.69

(195) STA. 152+85.38, 22.43' RT
CURB INLET WITH
24" STORM MANHOLE
N. RIM EL. = 9.83
BOTTOM EL. = 5.53
E. INV. EL. = 5.53
W. INV. EL. = 5.53

(196) STA. 152+64.26, 119.12' LT
CATCH BASIN
TOP EL. = 7.79
N. INV. EL. = 1.98

(197) STA. 152+64.26, 169.42' LT
CATCH BASIN
TOP EL. = 7.04
N. INV. EL. = 1.86
S. INV. EL. = 2.09

(198) STA. 152+64.26, 259.33' LT
CATCH BASIN
TOP EL. = 6.91
S. INV. EL. = 1.84

(199) STA. 153+80.92, 61.72' RT
CATCH BASIN
N. TOP EL. = 12.09
N. INV. EL. = 7.19

(200) STA. 153+80.92, 11.22' RT
24" STORM MANHOLE
N. RIM EL. = 9.47
(IN TRAVEL LANE)

(201) STA. 153+80.92, 48.76' RT
18" PLASTIC

(201-A) STA. 154+55.94, 261.51' RT
STORM MANHOLE
RIM EL.= 11.08
INV. EL. 7.24
EL. TO BE CONFIRMED

(202) STA. 154+35.29, 9.77' RT
24" STORM MANHOLE
N. RIM EL. = 9.37
(IN TRAVEL LANE)

(203) STA. 154+96.85, 27.28' RT
CONCRETE DITCH
WITH MITERED PIPE
INV. EL. = 5.22

(204) STA. 157+47.88, 25.67' RT
CONCRETE END WALL
INV. EL. = 6.07

(205) STA. 157+56.77, 66.77' RT
CATCH BASIN
ELEV. = 10.82
INV. ELEV. = 5.43

(206) STA. 157+83.37, 166.61' LT
CATCH BASIN
TOP EL. = 7.10
N. INV. EL. = 4.81

(207) STA. 157+83.37, 255.06' LT
CATCH BASIN
TOP EL. = 6.75
S. INV. EL. = 4.44

(208) STA. 158+19.91, 149.55' RT
CATCH BASIN
TOP EL. = 11.26
SE. INV. EL. = 6.54
S. INV. EL. = 6.56
NW. INV. EL. = 6.63

(209) STA. 158+54.26, 24.62' RT
ENDWALL
INV. ELEV. = 7.97
ELEV. = 4.94

(210) STA. 158+60.80, 52.13' LT
INV. ELEV. = 3.91

(211) STA. 158+69.05, 16.21' RT
INV. ELEV. = 4.80

(211-A) STA. 159+00, 49.21' LT
12" CMP

(212) STA. 160+63.41, 41.55' RT
MES INV.
ELEV. = 4.91

(213) STA. 161+05.39, 56.86' RT
MES INV.
ELEV. = 4.57

(214) STA. 163+20.43, 71.16' RT
TOP ENDWALL
ELEV. = 7.53
INV. ELEV. = 5.08

(215) STA. 163+29.04, 15.03' RT
TOP MANHOLE
ELEV. = 11.64
INV. ELEV. = 6.60

(216) STA. 165+09.73, 10.28' LT
TOP MANHOLE
ELEV. = 11.64
INV. ELEV. = 6.60

(217) STA. 165+09.73, 57.33' LT
TOP MANHOLE
ELEV. = 9.80
INV. ELEV. = 7.37

(218) STA. 172+06.25, 64.86' RT
ENDWALL
ELEV. = 10.11
INV. ELEV. = 4.86

(219) STA. 172+06.25, 72.92' LT
TOP CATCH BASIN
ELEV. = 8.92
S.W INV. ELEV. = 4.31

(220) STA. 172+06.25, 176.20' LT
TOP ENDWALL
ELEV. = 7.05
INV. ELEV. = 2.02

(221) STA. 172+87.87, 67.56' RT

(222) STA. 173+77.71, 63.92' RT
CATCH BASIN
ELEV. = 9.70
INV. ELEV. = 5.18

(223) STA. 174+48.27, 61.98' RT
MANHOLE
ELEV. = 10.16
S.E. INV. ELEV. = 5.04
N.W. INV. ELEV. = 5.20

(224) STA. 174+48.27, 60.69' RT
MANHOLE
ELEV. = 10.54
N.W. INV. ELEV. = 4.76
S.E. INV. ELEV. = 5.38

(225) STA. 175+47.72, 48.96' RT
CATCH BASIN
ELEV. = 9.84
INV. ELEV. = 5.33

(226) STA. 175+27.81, 213.80' LT
ENDWALL
ELEV. = 6.90
INV. ELEV. = 2.95

(227) STA. 176+17.56, 216.75' LT
ENDWALL
ELEV. = 6.50
INV. ELEV. = 2.64

(228) STA. 126+88.82, 93.68' RT
CATCH BASIN
ACCESS BLOCKED BY
PARKED VEHICLE

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REVISIONS			
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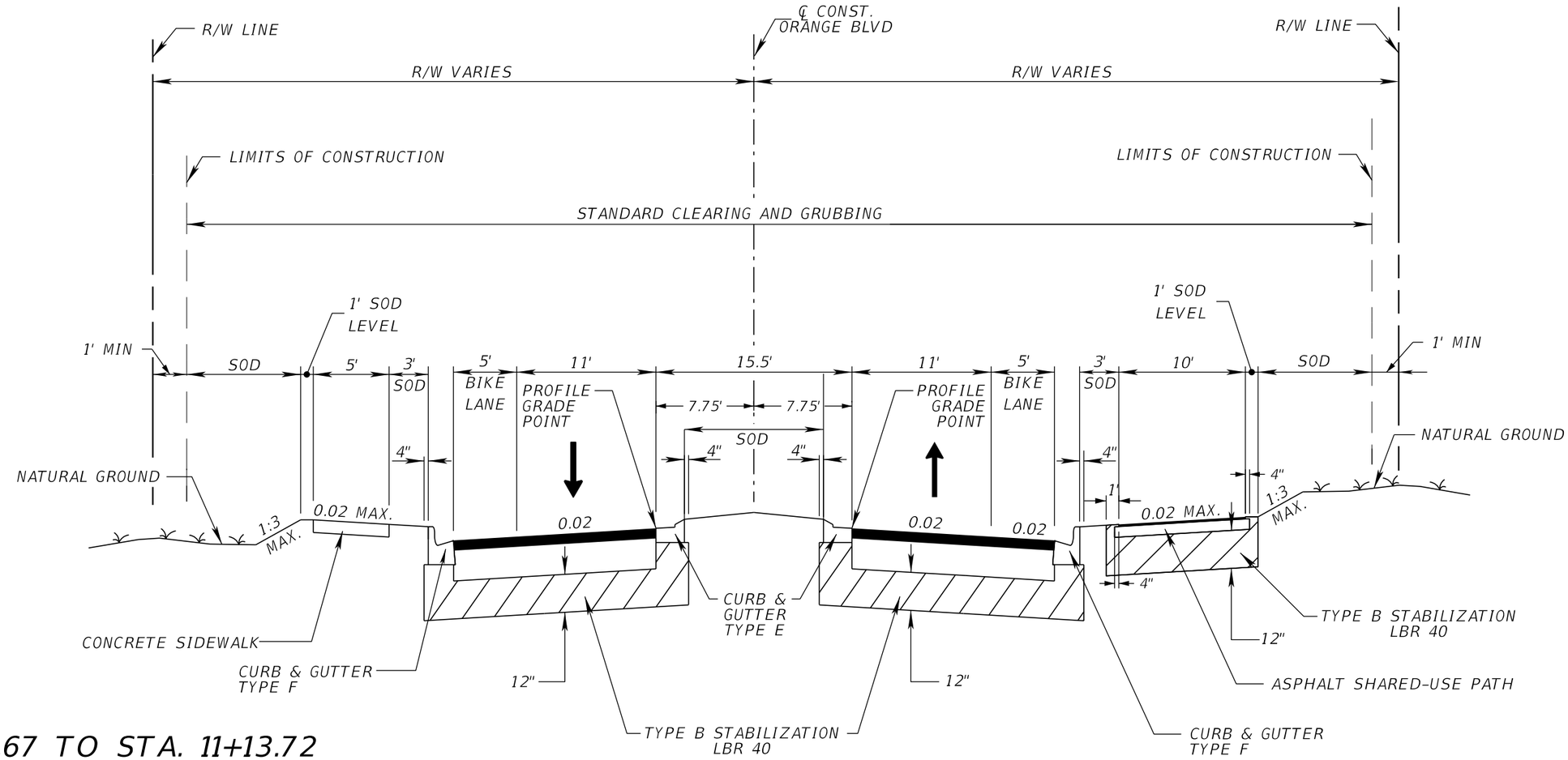
STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

EXISTING DRAINAGE STRUCTURES

SHEET NO. 10



STA. 10+51.67 TO STA. 11+13.72

MILLING

MILL EXISTING ASPHALT
PAVEMENT FOR DEPTH (1")

RESURFACING

FRICTION COURSE FC-9.5 (1") (PG 76-22)

WIDENING & PAVEMENT DESIGN

OPTIONAL BASE GROUP 10 (CRUSHED CONC.) WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (3.5")
AND FRICTION COURSE FC-9.5 (TRAFFIC B) (1") (PG 76-22)

TRAFFIC DATA

CURRENT YEAR = 2018 AADT = 8,300
ESTIMATED OPENING YEAR = 2020 AADT = 9,047
ESTIMATED DESIGN YEAR = 2038 AADT = 15,770
K = 9% D = 53% T = 5% (24 HOUR)
DESIGN SPEED = 35 MPH
POSTED SPEED = 35 MPH

ORANGE BOULEVARD (CR 431)

TYPICAL SECTION 1

STA. 11+13.72 TO STA. 48+50.00
STA. 53+50.00 TO STA. 68+50.00
STA. 81+50.00 TO STA. 112+50.00
STA. 117+50.00 TO STA. 120+48.15

PAVEMENT DESIGN

OPTIONAL BASE GROUP 09 (CRUSHED CONC.) WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2")
AND FRICTION COURSE FC-9.5 (TRAFFIC B) (1") (PG 76-22)

STA. 48+50.00 TO STA. 53+50.00
STA. 68+50.00 TO STA. 81+50.00
STA. 112+50.00 TO STA. 117+50.00

PAVEMENT DESIGN

OPTIONAL BASE GROUP 10 (CRUSHED CONC.) WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (3.5")
AND FRICTION COURSE FC-9.5 (TRAFFIC B) (1") (PG 76-22)

SHARED USE PATH

PAVEMENT DESIGN

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCUTURAL COURSE (TRAFFIC B) (1.5")

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

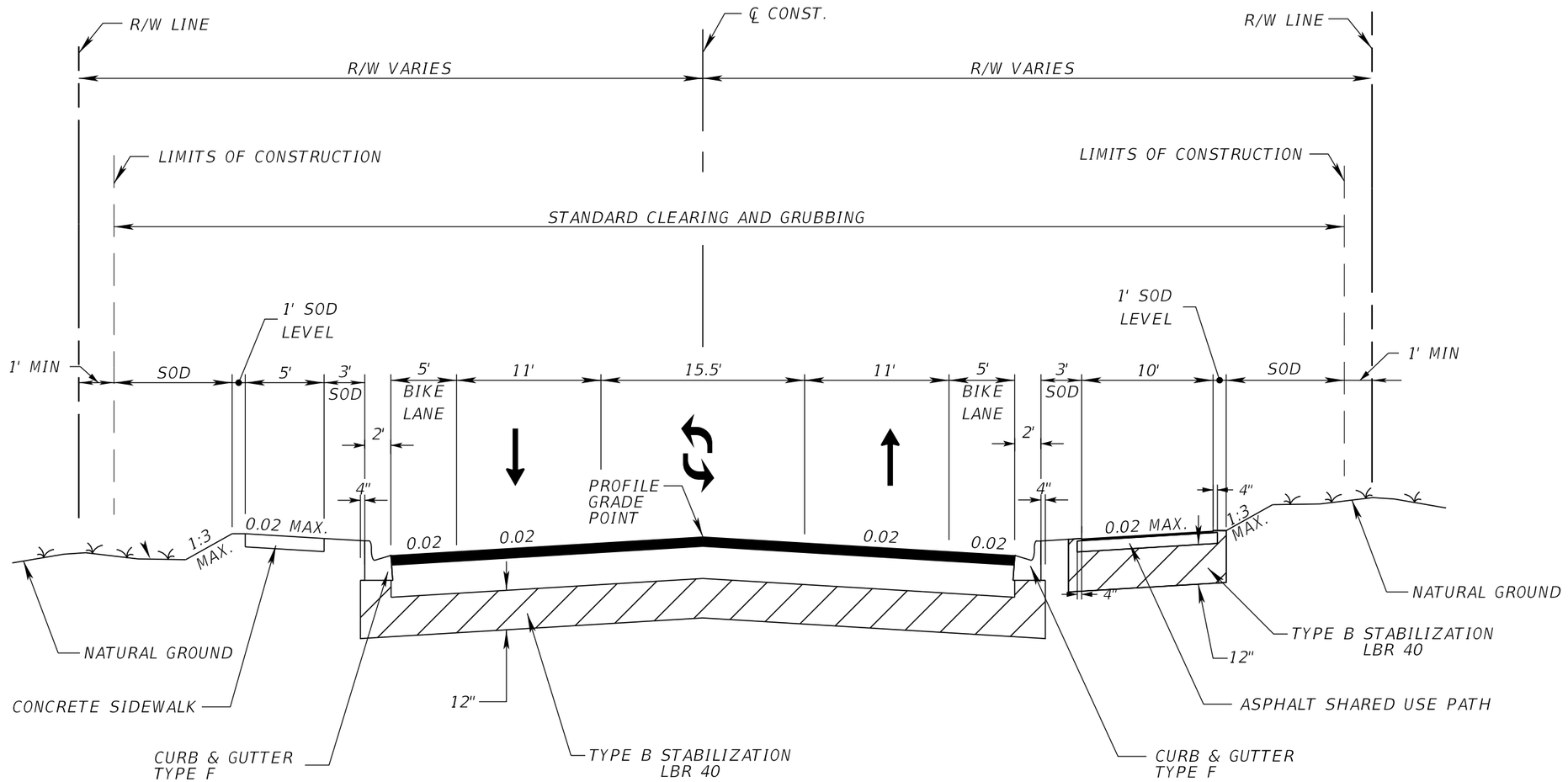
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TYPICAL SECTIONS

SHEET NO. 11



ORANGE BOULEVARD (CR 431)
TYPICAL SECTION 2

STA. 120+48.15 TO STA. 125+43.41
STA. 126+51.41 TO STA. 151+50.00
STA. 156+50.00 TO STA. 169+80.57

PAVEMENT DESIGN

OPTIONAL BASE GROUP 09 (CRUSHED CONC.) WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (2")
AND FRICTION COURSE FC-9.5 (TRAFFIC B) (1") (PG 76-22)

TRAFFIC DATA

CURRENT YEAR = 2018 AADT = 8,300
ESTIMATED OPENING YEAR = 2020 AADT = 9,047
ESTIMATED DESIGN YEAR = 2038 AADT = 15,770
K = 9% D = 53% T = 5% (24 HOUR)
DESIGN SPEED = 35 MPH
POSTED SPEED = 35 MPH

STA. 151+50.00 TO STA. 156+50.00

PAVEMENT DESIGN

OPTIONAL BASE GROUP 10 (CRUSHED CONC.) WITH
TYPE SP STRUCTURAL COURSE (TRAFFIC B) (3.5")
AND FRICTION COURSE FC-9.5 (TRAFFIC B) (1") (PG 76-22)

SHARED USE PATH

PAVEMENT DESIGN

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCUTURAL COURSE (TRAFFIC B) (1.5")

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

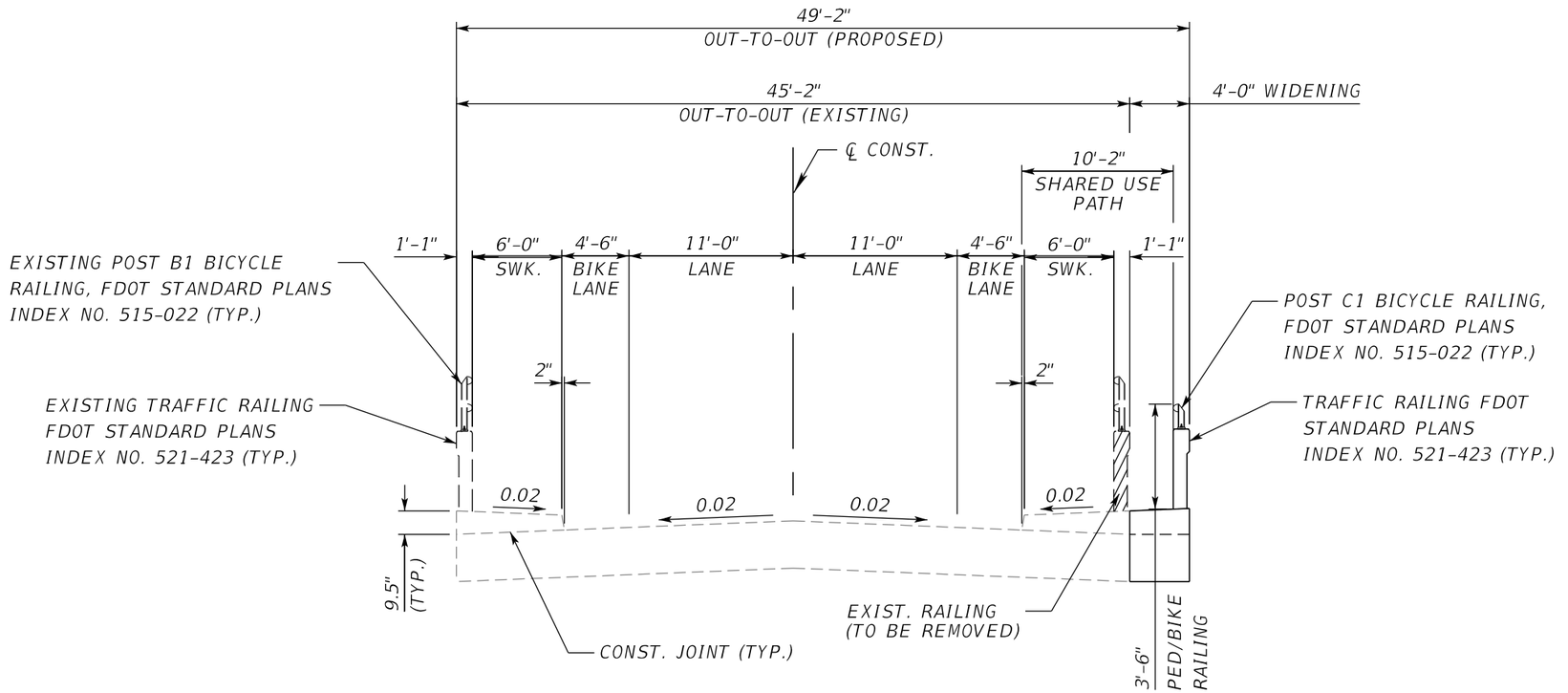
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TYPICAL SECTIONS

SHEET NO. 12

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ORANGE BOULEVARD (CR 431)
TYPICAL SECTION 3
LOCKHART SMITH CANAL BRIDGE
STA. 125+43.41 TO STA. 126+51.41

TRAFFIC DATA

CURRENT YEAR = 2018 AADT = 8,300
ESTIMATED OPENING YEAR = 2020 AADT = 9,047
ESTIMATED DESIGN YEAR = 2038 AADT = 15,770
K = 9% D = 53% T = 5% (24 HOUR)
DESIGN SPEED = 35 MPH
POSTED SPEED = 35 MPH

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

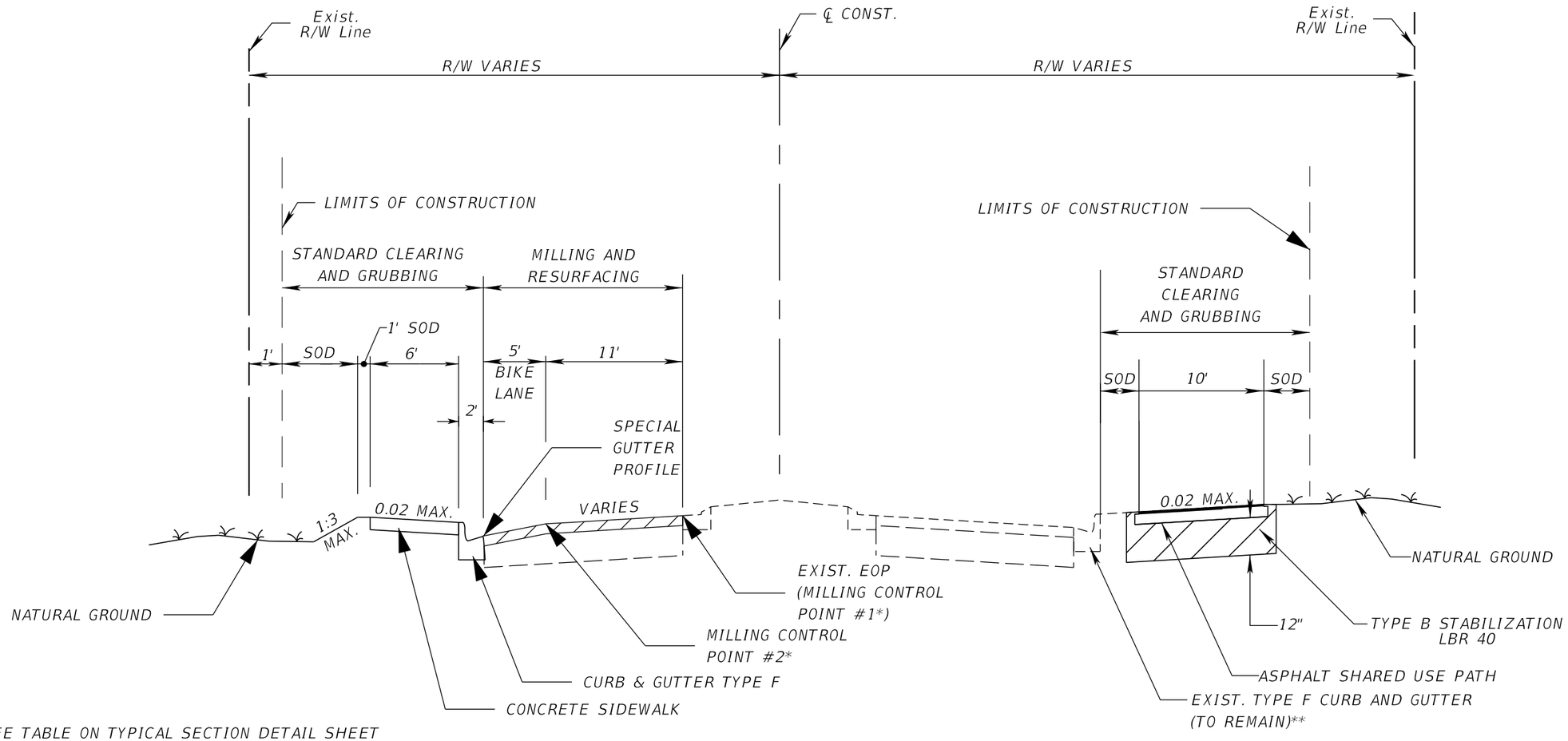
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TYPICAL SECTIONS

SHEET NO. 13

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*NOTE: SEE TABLE ON TYPICAL SECTION DETAIL SHEET FOR ADDITIONAL MILLING CONTROL POINT INFORMATION

**NOTE: CONTRACTOR TO PROTECT EXISTING CURB AND GUTTER DURING CONSTRUCITON OF PATH. ANY DAMAGE TO ROADWAY AND/OR CURB PRIOR TO FINAL ACCEPTANCE OF THE PATH WILL BE RESTORED AT THE CONTRACTOR'S EXPENSE

ORANGE BOULEVARD (CR 431)
TYPICAL SECTION 4
STA. 169+80.49 to STA. 176+61.89

TRAFFIC DATA

CURRENT YEAR = 2018 AADT = 8,300
ESTIMATED OPENING YEAR = 2020 AADT = 9,047
ESTIMATED DESIGN YEAR = 2038 AADT = 15,770
K = 9% D = 53% T = 5% (24 HOUR)
DESIGN SPEED = 35 MPH
POSTED SPEED = 35 MPH

MILLING (L1 LANE)

MILL EXISTING FOR SLOPE (1.5" AVG. DEPTH)

RESURFACING (L1 LANE)

FRICTION COURSE FC-9.5 (TRAFFIC LEVEL B) (1") (PG 76-22)

MILLING (OL SHLDR.)

MILL EXISTING FOR SLOPE (3.25" AVG. DEPTH)

RESURFACING (OL SHLDR.)

FRICTION COURSE FC-9.5 (1") (TRAFFIC B) (PG 76-22)

SHARED USE PATH

PAVEMENT DESIGN

OPTIONAL BASE GROUP 1 WITH
TYPE SP STRUCUTURAL COURSE (TRAFFIC B) (1.5")

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

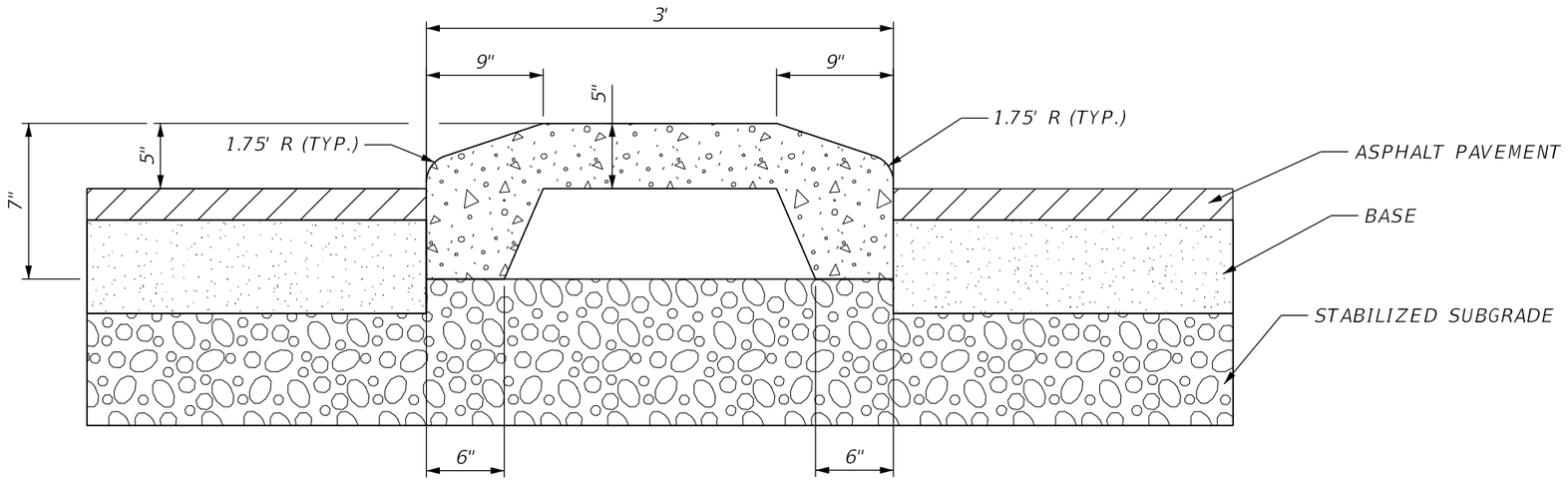
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TYPICAL SECTIONS

SHEET NO. 14

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STATION	MILLING CONTROL POINT #1 (DEPTH)	WIDTH (FT)	SLOPE	MILLING CONTROL POINT #2 (DEPTH)	WIDTH (FT)	SLOPE
170+00	2.5"	11	2.00%	2.5"	5	2.00%
171+00	3"	11	3.30%	4.85"	5	3.30%
172+00	3"	11	2.40%	3"	5	8.00%
173+00	3"	11	2.00%	4.1"	5	8.00%
174+00	3"	11	2.00%	3.41"	5	2.00%
175+00	3"	11	2.00%	3.41"	5	3.10%



TYPICAL TRAFFIC SEPARATOR DETAIL
TYPE I, OPTION I

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
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CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

TYPICAL SECTION DETAILS

SHEET NO. 15

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QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
							ROUND							BOX		ELLIPTICAL				
							15"	18"	24"	30"	36"	42"	48"	6x3	6x4	14" x 23"	19" x 30"	24" x 38"	29" x 45"	34" x 53"
P		43	53+18.11	LT.	Pipe	1		26												
F																				
P		87	82+72.68	RT.	Pipe	1	10													
F																				
P		S-1	12+30.05	RT.	Inlet, Pipe	1		73												
F																				
P		S-2	12+30.28	LT.	Inlet, Pipe	1		81												
F																				
P		S-2-1	13+14.60	LT.	Inlet, Pipe	1		97												
F																				
P		S-3	13+02.65	RT.	Manhole, Pipe	1		68												
F																				
P		S-4	14+14.03	LT.	Inlet, Pipe	1		196												
F																				
P		S-5	14+14.28	RT.	Inlet, Pipe	1		51												
F																				
P		S-5-1	15+10.25	RT.	Inlet, Pipe	1		100												
F																				
P		S-6	16+13.26	LT.	Inlet, Pipe	1			207											
F																				
P		S-7	16+14.26	RT.	Inlet, Pipe	1		51												
F																				
P		S-8	16+14.21	RT.	Manhole, Pipe	1		11												
F																				
P		S-9	18+23.91	RT.	Inlet, Pipe	1		51												
F																				
P		S-10	18+24.08	LT.	Inlet, Pipe	1			272											
F																				
P		S-12	21+00.32	LT.	Inlet, Pipe	1			277											
F																				
P		S-13	21+00.59	RT.	Inlet, Pipe	1		50												
F																				
P		S-14	23+79.84	RT.	Inlet, Pipe	1		51												
F																				
P		S-15	23+80.77	LT.	Inlet, Pipe	1			125											
F																				
P		S-16	24+21.17	RT.	Manhole, Pipe	1			318											
F																				
Sheet Summary					P Total		10	805	1199	0	0	0	0	0	0	0	0	0	0	0
					F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
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CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 16A

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QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING
						P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	H									
						<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	30"	36"	48"	30"	SY
P	43	53+18.11	LT.	Pipe	1																									
F																														
P	87	82+72.68	RT.	Pipe	1																									
F																														
P	S-1	12+30.05	RT.	Inlet, Pipe	1	1																								
F																														
P	S-2	12+30.28	LT.	Inlet, Pipe	1						1																			
F																														
P	S-2-1	13+14.60	LT.	Inlet, Pipe	1						1																			
F																														
P	S-3	13+02.65	RT.	Manhole, Pipe	1												1													
F																														
P	S-4	14+14.03	LT.	Inlet, Pipe	1						1																			
F																														
P	S-5	14+14.28	RT.	Inlet, Pipe	1	1																								
F																														
P	S-5-1	15+10.25	RT.	Inlet, Pipe	1															1										
F																														
P	S-6	16+13.26	LT.	Inlet, Pipe	1						1																			
F																														
P	S-7	16+14.26	RT.	Inlet, Pipe	1	1																								
F																														
P	S-8	16+14.21	RT.	Manhole, Pipe	1												1													
F																														
P	S-9	18+23.91	RT.	Inlet, Pipe	1	1																								
F																														
P	S-10	18+24.08	LT.	Inlet, Pipe	1						1																			
F																														
P	S-12	21+00.32	LT.	Inlet, Pipe	1						1																			
F																														
P	S-13	21+00.59	RT.	Inlet, Pipe	1	1																								
F																														
P	S-14	23+79.84	RT.	Inlet, Pipe	1	1																								
F																														
P	S-15	23+80.77	LT.	Inlet, Pipe	1						1																			
F																														
P	S-16	24+21.17	RT.	Manhole, Pipe	1												1													
F																														
	Sheet Summary			P Total		6	0	0	0	0	7	0	0	0	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 16B

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2/27/2025

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC CY	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
P		43	53+18.11	LT.	Pipe	1			Existing Structure
F									
P		87	82+72.68	RT.	Pipe	1			Existing Pipe Extension
F									
P		S-1	12+30.05	RT.	Inlet, Pipe	1			
F									
P		S-2	12+30.28	LT.	Inlet, Pipe	1			
F									
P		S-2-1	13+14.60	LT.	Inlet, Pipe	1			
F									
P		S-3	13+02.65	RT.	Manhole, Pipe	1			
F									
P		S-4	14+14.03	LT.	Inlet, Pipe	1			
F									
P		S-5	14+14.28	RT.	Inlet, Pipe	1			
F									
P		S-5-1	15+10.25	RT.	Inlet, Pipe	1			
F									
P		S-6	16+13.26	LT.	Inlet, Pipe	1			
F									
P		S-7	16+14.26	RT.	Inlet, Pipe	1			
F									
P		S-8	16+14.21	RT.	Manhole, Pipe	1			
F									
P		S-9	18+23.91	RT.	Inlet, Pipe	1			
F									
P		S-10	18+24.08	LT.	Inlet, Pipe	1			
F									
P		S-12	21+00.32	LT.	Inlet, Pipe	1			
F									
P		S-13	21+00.59	RT.	Inlet, Pipe	1			
F									
P		S-14	23+79.84	RT.	Inlet, Pipe	1			
F									
P		S-15	23+80.77	LT.	Inlet, Pipe	1			
F									
P		S-16	24+21.17	RT.	Manhole, Pipe	1			
F									
Sheet Summary					P Total		0	0	
					F Total		0	0	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 16C

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
							ROUND							BOX		ELLIPTICAL				
							15"	18"	24"	30"	36"	42"	48"	6x3	6x4	14" x 23"	19" x 30"	24" x 38"	29" x 45"	34" x 53"
P		S-17	24+21.58	LT.	Inlet, Pipe	1		94												
F																				
P		S-18	25+23.16	LT.	FES	1														
F																				
P		S-19	25+09.66	LT.	Inlet, Pipe	1			56											
F																				
P		S-20	26+64.85	LT.	Inlet, Pipe	1			60											
F																				
P		S-21	27+35.37	RT.	Inlet, Pipe	1		62												
F																				
P		S-22	27+40.61	RT.	Inlet, Pipe	1			282											
F																				
P		S-23	26+94.27	LT.	Inlet, Pipe	1			299											
F																				
P		S-24	29+95.21	LT.	Inlet, Pipe	1			176											
F																				
P		S-25	30+30.61	RT.	Inlet, Pipe	1			83											
F																				
P		S-25-1	31+20.00	RT.	Manhole, Pipe	1			97											
F																				
P		S-26	31+69.93	RT.	Inlet, Pipe	1		51												
F																				
P		S-27	31+71.43	LT.	Inlet, Pipe	1				146										
F																				
P		S-28	32+24.05	RT.	Inlet, Pipe	1			70											
F																				
P		S-28-1	33+18.46	LT.	Manhole, Pipe	1				207										
F																				
P		S-28-2	33+00.00	RT.	Manhole, Pipe	1			108											
F																				
P		S-29	34+14.92	RT.	Inlet, Pipe	1			79											
F																				
P		S-29-1	35+00.00	RT.	Manhole, Pipe	1			96											
F																				
P		S-30	35+25.26	LT.	Inlet, Pipe	1				70										
F																				
P		S-31	35+28.13	RT.	Inlet, Pipe	1		51												
F																				
Sheet Summary	P Total						0	258	1406	423	0	0	0	0	0	0	0	0	0	0
	F Total						0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 17A

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QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING SY
						P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	H									
						<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	30"	36"	48"	30"	
P	S-17	24+21.58	LT.	Inlet, Pipe	1															1									
F																													
P	S-18	25+23.16	LT.	FES	1																				1				
F																													
P	S-19	25+09.66	LT.	Inlet, Pipe	1						1																		
F																													
P	S-20	26+64.85	LT.	Inlet, Pipe	1															1									
F																													
P	S-21	27+35.37	RT.	Inlet, Pipe	1						1																		14.00
F																													
P	S-22	27+40.61	RT.	Inlet, Pipe	1															1									
F																													
P	S-23	26+94.27	LT.	Inlet, Pipe	1						1																		
F																													
P	S-24	29+95.21	LT.	Inlet, Pipe	1						1																		
F																													
P	S-25	30+30.61	RT.	Inlet, Pipe	1															1									
F																													
P	S-25-1	31+20.00	RT.	Manhole, Pipe	1												1												
F																													
P	S-26	31+69.93	RT.	Inlet, Pipe	1	1																							
F																													
P	S-27	31+71.43	LT.	Inlet, Pipe	1						1																		
F																													
P	S-28	32+24.05	RT.	Inlet, Pipe	1															1									
F																													
P	S-28-1	33+18.46	LT.	Manhole, Pipe	1												1												
F																													
P	S-28-2	33+00.00	RT.	Manhole, Pipe	1												1												
F																													
P	S-29	34+14.92	RT.	Inlet, Pipe	1															1									
F																													
P	S-29-1	35+00.00	RT.	Manhole, Pipe	1																								
F																													
P	S-30	35+25.26	LT.	Inlet, Pipe	1						1																		
F																													
P	S-31	35+28.13	RT.	Inlet, Pipe	1	1																							
F																													
Sheet Summary				P Total		2	0	0	0	0	6	0	0	0	0	0	3	0	0	6	0	0	0	0	1	0	0	0	0	14
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 17B

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC CY	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
P	S-17	24+21.58	LT.	Inlet, Pipe	1			
F								
P	S-18	25+23.16	LT.	FES	1	0.17		
F								
P	S-19	25+09.66	LT.	Inlet, Pipe	1			
F								
P	S-20	26+64.85	LT.	Inlet, Pipe	1			
F								
P	S-21	27+35.37	RT.	Inlet, Pipe	1			
F								
P	S-22	27+40.61	RT.	Inlet, Pipe	1			
F								
P	S-23	26+94.27	LT.	Inlet, Pipe	1			
F								
P	S-24	29+95.21	LT.	Inlet, Pipe	1			
F								
P	S-25	30+30.61	RT.	Inlet, Pipe	1			
F								
P	S-25-1	31+20.00	RT.	Manhole, Pipe	1			
F								
P	S-26	31+69.93	RT.	Inlet, Pipe	1			
F								
P	S-27	31+71.43	LT.	Inlet, Pipe	1			
F								
P	S-28	32+24.05	RT.	Inlet, Pipe	1			
F								
P	S-28-1	33+18.46	LT.	Manhole, Pipe	1			
F								
P	S-28-2	33+00.00	RT.	Manhole, Pipe	1			
F								
P	S-29	34+14.92	RT.	Inlet, Pipe	1			
F								
P	S-29-1	35+00.00	RT.	Manhole, Pipe	1			
F								
P	S-30	35+25.26	LT.	Inlet, Pipe	1			
F								
P	S-31	35+28.13	RT.	Inlet, Pipe	1			
F								
Sheet Summary				P Total		0.17	0	
				F Total		0	0	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 17C

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
						ROUND							BOX		ELLIPTICAL				
						15"	18"	24"	30"	36"	42"	48"	6x3	6x4	14" x 23"	19" x 30"	24" x 38"	29" x 45"	34" x 53"
P	S-32	35+96.65	LT.	Inlet, Pipe	1		9												
F																			
P	S-33	35+97.03	LT.	Manhole, Pipe	1				193										
F																			
P	S-34	36+02.72	RT.	Inlet, Pipe	1		6												
F																			
P	S-35	36+02.94	RT.	Manhole, Pipe	1			184											
F																			
P	S-36	37+90.05	LT.	Inlet, Pipe	1				208										
F																			
P	S-37	37+95.68	RT.	Inlet, Pipe	1		51												
F																			
P	S-38	37+96.20	RT.	Manhole, Pipe	1			136											
F																			
P	S-38-1	39+40.27	RT.	Manhole, Pipe	1			175											
F																			
P	S-39	39+97.79	LT.	Inlet, Pipe	1		13												
F																			
P	S-40	39+98.27	LT.	Inlet, Pipe	1					267									
F																			
P	S-41	39+87.80	RT.	Inlet, Pipe	1		53												
F																			
P	S-42	41+24.52	RT.	Manhole, Pipe	1			371											
F																			
P	S-42-1	41+30.16	RT.	Manhole, Pipe	1		7												
F																			
P	S-43	42+62.02	RT.	Inlet, Pipe	1		47												
F																			
P	S-44	42+65.38	LT.	Inlet, Pipe	1														79
F																			
P	S-45	43+47.84	LT.	Inlet, Pipe	1		6												
F																			
P	S-46	43+47.47	LT.	Inlet, Pipe	1														237
F																			
P	S-48	45+30.23	RT.	Manhole, Pipe	1		130												
F																			
Sheet Summary				P Total		0	322	866	401	267	0	0	0	0	0	0	0	0	316
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 18A

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING
						P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	H										
						<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	30"	36"	48"	30"	SY
P	S-32	35+96.65	LT.	Inlet, Pipe	1														1											
F																														
P	S-33	35+97.03	LT.	Manhole, Pipe	1												1													
F																														
P	S-34	36+02.72	RT.	Inlet, Pipe	1														1											
F																														
P	S-35	36+02.94	RT.	Manhole, Pipe	1												1													
F																														
P	S-36	37+90.05	LT.	Inlet, Pipe	1						1																			
F																														
P	S-37	37+95.68	RT.	Inlet, Pipe	1	1																								
F																														
P	S-38	37+96.20	RT.	Manhole, Pipe	1												1													
F																														
P	S-38-1	39+40.27	RT.	Manhole, Pipe	1												1													
F																														
P	S-39	39+97.79	LT.	Inlet, Pipe	1														1											
F																														
P	S-40	39+98.27	LT.	Inlet, Pipe	1						1																			
F																														
P	S-41	39+87.80	RT.	Inlet, Pipe	1	1																								
F																														
P	S-42	41+24.52	RT.	Manhole, Pipe	1												1													
F																														
P	S-42-1	41+23.94	RT.	Manhole, Pipe	1												1													
F																														
P	S-43	42+62.02	RT.	Inlet, Pipe	1						1																			
F																														
P	S-44	42+65.38	LT.	Inlet, Pipe	1						1																			
F																														
P	S-45	43+47.84	LT.	Inlet, Pipe	1														1											
F																														
P	S-46	43+47.47	LT.	Manhole, Pipe	1												1													
F																														
P	S-48	45+30.23	RT.	Inlet, Pipe	1						1																			
F																														
Sheet Summary				P Total		2	0	0	0	0	5	0	0	0	0	0	7	0	4	0	0	0	0	0	0	0	0	0	0	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 18B

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC (CY)	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
P	S-32	35+96.65	LT.	Inlet, Pipe	1			
F								
P	S-33	35+97.03	LT.	Manhole, Pipe	1			
F								
P	S-34	36+02.72	RT.	Inlet, Pipe	1			
F								
P	S-35	36+02.94	RT.	Manhole, Pipe	1			
F								
P	S-36	37+90.05	LT.	Inlet, Pipe	1			
F								
P	S-37	37+95.68	RT.	Inlet, Pipe	1			
F								
P	S-38	37+96.20	RT.	Manhole, Pipe	1			
F								
P	S-38-1	39+40.27	RT.	Manhole, Pipe	1			
F								
P	S-39	39+97.79	LT.	Inlet, Pipe	1			
F								
P	S-40	39+98.27	LT.	Inlet, Pipe	1			
F								
P	S-41	39+87.80	RT.	Inlet, Pipe	1			
F								
P	S-42	41+24.52	RT.	Manhole, Pipe	1			
F								
P	S-42-1	41+23.94	RT.	Manhole, Pipe	1			
F								
P	S-43	42+62.02	RT.	Inlet, Pipe	1			
F								
P	S-44	42+65.38	LT.	Inlet, Pipe	1			
F								
P	S-45	43+47.84	LT.	Inlet, Pipe	1			
F								
P	S-46	43+47.47	LT.	Manhole, Pipe	1			
F								
P	S-48	45+30.23	RT.	Inlet, Pipe	1			
F								
Sheet Summary				P Total		0	0	
				F Total		0	0	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 18C

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
						ROUND							BOX		ELLIPTICAL				
						15"	18"	24"	30"	48"	54"	60"	6x3	6x4	19" x 30"	24" x 38"	29" x 45"	34" x 53"	43" x 68"
P	S-49	45+00.09	RT.	Inlet, Pipe	1			359											
F																			
P	S-50	45+88.25	LT.	Inlet, Pipe	1													71	
F																			
P	S-51	46+63.33	LT.	Inlet, Pipe	1														71
F																			
P	S-52	46+63.34	RT.	Inlet, Pipe	1		46												
F																			
P	S-53	46+63.45	LT.	Inlet, Pipe	1		15												
F																			
P	S-54	47+38.24	LT.	Inlet, Pipe	1														161
F																			
P	S-54-1	41+23.94	RT.	Manhole, Pipe	1		14												
F																			
P	S-55	47+38.51	RT.	Inlet, Pipe	1		72												
F																			
P	S-57	49+00.23	RT.	Inlet, Pipe	1		50												
F																			
P	S-58	48+60.00	RT.	Inlet, Pipe	1			216											
F																			
P	S-59	49+03.16	LT.	Manhole, Pipe	1						216								
F																			
P	S-60	49+04.04	LT.	Inlet, Pipe	1		11												
F																			
P	S-61	50+78.00	RT.	Inlet, Pipe	1				343										
F																			
P	S-62	51+18.42	RT.	Inlet, Pipe	1		46												
F																			
P	S-63	51+23.54	LT.	Inlet, Pipe	1						189								
F																			
P	S-64	53+04.71	LT.	Manhole, Pipe	1												329		
F																			
P	S-64-1	55+12.38	LT.	Manhole, Pipe	1												331		
F																			
P	S-64-2	57+97.08	LT.	Manhole, Pipe	1												20		
F																			
Sheet Summary	P Total					0	254	575	343	0	405	0	0	0	0	0	680	71	232
	F Total					0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 19A

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2:04:18 PM
2/27/2025

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING
						P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	H									
						<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	30"	36"	48"	30"	SY
P	S-49	45+00.09	RT.	Inlet, Pipe	1														1											
F																														
P	S-50	45+88.25	LT.	Inlet, Pipe	1								1																	
F																														
P	S-51	46+63.33	LT.	Inlet, Pipe	1										1															
F																														
P	S-52	46+63.34	RT.	Inlet, Pipe	1									1																
F																														
P	S-53	46+63.45	LT.	Inlet, Pipe	1														1											
F																														
P	S-54	47+38.24	LT.	Inlet, Pipe	1								1																	
F																														
P	S-54-1	41+23.94	RT.	Manhole, Pipe	1														1											
F																														
P	S-55	47+38.51	RT.	Inlet, Pipe	1						1																			
F																														
P	S-57	49+00.23	RT.	Inlet, Pipe	1						1																			
F																														
P	S-58	48+60.00	RT.	Inlet, Pipe	1														1											
F																														
P	S-59	49+03.16	LT.	Manhole, Pipe	1													1												
F																														
P	S-60	49+04.04	LT.	Inlet, Pipe	1														1											
F																														
P	S-61	50+78.00	RT.	Inlet, Pipe	1														1											
F																														
P	S-62	51+18.42	RT.	Inlet, Pipe	1						1																			
F																														
P	S-63	51+23.54	LT.	Inlet, Pipe	1								1																	
F																														
P	S-64	53+04.71	LT.	Manhole, Pipe	1													1												
F																														
P	S-64-1	55+12.38	LT.	Manhole, Pipe	1													1												
F																														
P	S-64-2	57+97.08	LT.	Manhole, Pipe	1													1												
F																														
Sheet Summary				P Total		0	0	0	0	0	3	0	3	1	1	0	0	4	6	0	0	0	0	0	0	0	0	0	0	0	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 19B

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2/27/2025

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC (CY)	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
P		S-49	45+00.09	RT.	Inlet, Pipe	1		1	Type C Inlet (Modified)
F									
P		S-50	45+88.25	LT.	Inlet, Pipe	1			
F									
P		S-51	46+63.33	LT.	Inlet, Pipe	1			
F									
P		S-52	46+63.34	RT.	Inlet, Pipe	1			
F									
P		S-53	46+63.45	LT.	Inlet, Pipe	1			
F									
P		S-54	47+38.24	LT.	Inlet, Pipe	1			
F									
P		S-54-1	41+23.94	RT.	Manhole, Pipe	1			
F									
P		S-55	47+38.51	RT.	Inlet, Pipe	1			
F									
P		S-57	49+00.23	RT.	Inlet, Pipe	1			
F									
P		S-58	48+60.00	RT.	Inlet, Pipe	1		1	Type C Inlet (Modified)
F									
P		S-59	49+03.16	LT.	Manhole, Pipe	1			
F									
P		S-60	49+04.04	LT.	Inlet, Pipe	1			
F									
P		S-61	50+78.00	RT.	Inlet, Pipe	1		1	Type C Inlet (Modified)
F									
P		S-62	51+18.42	RT.	Inlet, Pipe	1			
F									
P		S-63	51+23.54	LT.	Inlet, Pipe	1			
F									
P		S-64	53+04.71	LT.	Manhole, Pipe	1			No precast cone riser required
F									
P		S-64-1	55+12.38	LT.	Manhole, Pipe	1			
F									
P		S-64-2	57+97.08	LT.	Manhole, Pipe	1			
F									
		Sheet Summary			P Total		0	3	
					F Total		0	0	

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 19C

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2/27/2025

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
							ROUND							BOX		ELLIPTICAL				
							15"	18"	24"	30"	36"	42"	60"	6x3	6x4	14" x 23"	19" x 30"	24" x 38"	29" x 45"	34" x 53"
P		S-65	53+17.69	LT.	Inlet, Pipe	1							98							
F																				
P		S-65-1	53+10.85	RT.	Inlet, Pipe	1		109												
F																				
P		S-66	54+22.06	LT.	Inlet, Pipe	1							81							
F																				
P		S-67	54+23.39	RT.	Inlet, Pipe	1		70												
F																				
P		S-68	54+23.39	RT.	Manhole, Pipe	1				283										
F																				
P		S-69	54+96.65	RT.	Inlet, Pipe	1		47												
F																				
P		S-70	54+98.28	LT.	Inlet, Pipe	1		71												
F																				
P		S-71	53+79.02	LT.	FES	1														
F																				
P		S-72	55+72.06	LT.	Inlet, Pipe	1		70												
F																				
P		S-73	55+72.50	RT.	Inlet, Pipe	1		72												
F																				
P		S-74	57+52.64	LT.	Inlet, Pipe	1					38									
F																				
P		S-74-1	57+89.23	LT.	Manhole, Pipe	1														248
F																				
P		S-75	56+62.13	LT.	Manhole, Pipe	1														43
F																				
P		S-76	57+10.78	RT.	Manhole, Pipe	1														60
F																				
P		S-77	57+12.12	LT.	Manhole, Pipe	1														110
F																				
P		S-78	57+71.65	LT.	Inlet, Pipe	1														258
F																				
Sheet Summary	P Total						0	439	0	283	38	0	179	0	0	0	0	0	0	719
	F Total						0	0	0	0	0	0	0	0	0	0	0	0	0	0

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2/27/2025

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 20A

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING
							P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	H									
							<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	30"	36"	60"	30"	SY
P		S-65	53+17.69	LT.	Inlet, Pipe	1								1																	
F																															
P		S-65-1	53+10.85	RT.	Inlet, Pipe	1						1																			
F																															
P		S-66	54+22.06	LT.	Inlet, Pipe	1								1																	
F																															
P		S-67	54+23.39	RT.	Inlet, Pipe	1						1																			
F																															
P		S-68	54+23.39	RT.	Manhole, Pipe	1												1													
F																															
P		S-69	54+96.65	RT.	Inlet, Pipe	1									1																
F																															
P		S-70	54+98.28	LT.	Inlet, Pipe	1									1																
F																															
P		S-71	53+79.02	LT.	FES	1																							1		
F																															
P		S-72	55+72.06	LT.	Inlet, Pipe	1						1																			
F																															
P		S-73	55+72.50	RT.	Inlet, Pipe	1						1																			
F																															
P		S-74	57+52.64	LT.	Inlet, Pipe	1																1									
F																															
P		S-74-1	57+89.23	LT.	Manhole, Pipe	1													1												
F																															
P		S-75	56+62.13	LT.	Manhole, Pipe	1													1												
F																															
P		S-76	57+10.78	RT.	Manhole, Pipe	1													1												
F																															
P		S-77	57+12.12	LT.	Manhole, Pipe	1													1												
F																															
P		S-78	57+71.65	LT.	Inlet, Pipe	1								1																	
F																															
Sheet Summary	P Total						0	0	0	0	0	4	0	3	2	0	0	1	4	0	0	1	0	0	0	0	0	0	1	0	0
	F Total						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 20B

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2/27/2025

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC (CY)	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
P		S-65	53+17.69	LT.	Inlet, Pipe	1			
F									
P		S-65-1	53+10.85	RT.	Inlet, Pipe	1			
F									
P		S-66	54+22.06	LT.	Inlet, Pipe	1			
F									
P		S-67	54+23.39	RT.	Inlet, Pipe	1			
F									
P		S-68	54+23.39	RT.	Manhole, Pipe	1			
F									
P		S-69	54+96.65	RT.	Inlet, Pipe	1			
F									
P		S-70	54+98.28	LT.	Inlet, Pipe	1			
F									
P		S-71	53+79.02	LT.	FES	1			
F									
P		S-72	55+72.06	LT.	Inlet, Pipe	1			
F									
P		S-73	55+72.50	RT.	Inlet, Pipe	1			
F									
P		S-74	57+52.64	LT.	Inlet, Pipe	1			
F									
P		S-74-1	57+89.23	LT.	Manhole, Pipe	1			
F									
P		S-75	56+62.13	LT.	Manhole, Pipe	1			
F									
P		S-76	57+10.78	RT.	Manhole, Pipe	1			
F									
P		S-77	57+12.12	LT.	Manhole, Pipe	1			
F									
P		S-78	57+71.65	LT.	Inlet, Pipe	1			
F									
Sheet Summary					P Total		0	0	
					F Total		0	0	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 20C

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
						ROUND							BOX		ELLIPTICAL				
						15"	18"	24"	30"	36"	42"	48"	6x3	6x4	14" x 23"	19" x 30"	24" x 38"	29" x 45"	34" x 53"
P	S-79	59+03.59	RT.	Inlet, Pipe	1		50												
F																			
P	S-80	59+03.78	LT.	Inlet, Pipe	2														400
F																			
P	S-81	61+04.68	LT.	Inlet, Pipe	2														262
F																			
P	S-82	61+05.51	LT.	Inlet, Pipe	1		15												
F																			
P	S-83	62+12.13	RT.	Inlet, Pipe	1		94												
F																			
P	S-84	62+37.65	LT.	Inlet, Pipe	2														142
F																			
P	S-85	63+11.59	LT.	Inlet, Pipe	2														130
F																			
P	S-86	63+11.89	RT.	Inlet, Pipe	1		77												
F																			
P	S-87	63+79.25	LT.	Inlet, Pipe	2														356
F																			
P	S-87-1	65+58.60	LT.	Inlet, Pipe	2														72
F																			
P	S-88	63+94.01	RT.	Inlet, Pipe	1		206												
F																			
P	S-90	66+00.05	LT.	Culvert	2									140					
F																			
P	S-91	66+13.70	RT.	Inlet	1														
F																			
P	S-91-1	66+99.77	RT.	Manhole, Pipe	1													79	
F																			
P	S-92	68+01.90	LT.	Inlet, Pipe	1			196											
F																			
P	S-93	68+39.87	RT.	Inlet, Pipe	1													135	
F																			
P	S-94	70+46.29	LT.	Inlet, Pipe	1			242											
F																			
Sheet Summary					P Total	0	442	438	0	0	0	0	0	140	0	0	0	214	1362
					F Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 21A

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2/27/2025

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING
						P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	H									
						<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	30"	36"	48"	30"	SY
P	S-79	59+03.59	RT.	Inlet, Pipe	1	1																								
F																														
P	S-80	59+03.78	LT.	Inlet, Pipe	2								1																	
F																														
P	S-81	61+04.68	LT.	Manhole, Pipe	2										1															
F																														
P	S-82	61+05.51	LT.	Inlet, Pipe	1														1											
F																														
P	S-83	62+12.13	RT.	Inlet, Pipe	1	1																								
F																														
P	S-84	62+37.65	LT.	Inlet, Pipe	2								1																	
F																														
P	S-85	63+11.59	LT.	Inlet, Pipe	2										1															
F																														
P	S-86	63+11.89	RT.	Inlet, Pipe	1				1																					
F																														
P	S-87	63+79.25	LT.	Inlet, Pipe	2								1																	
F																														
P	S-87-1	65+58.60	LT.	Inlet, Pipe									1																	
F																														
P	S-88	63+94.01	RT.	Inlet, Pipe	1	1																								
F																														
P	S-90	66+00.05	LT.	Culvert	2																								1	
F																														
P	S-91	66+13.70	RT.	Inlet	1			1																						
F																														
P	S-91-1	66+99.77	RT.	Manhole, Pipe	1												1													
F																														
P	S-92	68+01.90	LT.	Inlet, Pipe	1						1																			
F																														
P	S-93	68+39.87	RT.	Inlet, Pipe	1	1																								
F																														
P	S-94	70+46.29	LT.	Inlet, Pipe	1						1																			
F																														
Sheet Summary				P Total		5	0	1	1	0	2	0	4	0	2	0	1	0	1	0	0	0	0	0	0	0	0	0	1	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 21B

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2/27/2025

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC (CY)	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
P		S-79	59+03.59	RT.	Inlet, Pipe	1			
F									
P		S-80	59+03.78	LT.	Inlet, Pipe	2			
F									
P		S-81	61+04.68	LT.	Manhole, Pipe	2			
F									
P		S-82	61+05.51	LT.	Inlet, Pipe	1			
F									
P		S-83	62+12.13	RT.	Inlet, Pipe	1			
F									
P		S-84	62+37.65	LT.	Inlet, Pipe	2			
F									
P		S-85	63+11.59	LT.	Inlet, Pipe	2			
F									
P		S-86	63+11.89	RT.	Inlet, Pipe	1			
F									
P		S-87	63+79.25	LT.	Inlet, Pipe	2			
F									
P		S-87-1	65+58.60	LT.	Inlet, Pipe	2			
F									
P		S-88	63+94.01	RT.	Inlet, Pipe	1			
F									
P		S-90	66+00.05	LT.	Culvert	2			
F									
P		S-91	66+13.70	RT.	Inlet	1			
F									
P		S-91-1	66+99.77	RT.	Manhole, Pipe	1			
F									
P		S-92	68+01.90	LT.	Inlet, Pipe	1			
F									
P		S-93	68+39.87	RT.	Inlet, Pipe	1			
F									
P		S-94	70+46.29	LT.	Inlet, Pipe	1			
F									
Sheet Summary					P Total		0	0	
					F Total		0	0	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 21C

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
							ROUND							BOX		ELLIPTICAL				
							15"	18"	24"	30"	36"	42"	48"	6x3	6x4	14" x 23"	19" x 30"	24" x 38"	29" x 45"	34" x 53"
P		S-95	70+46.40	RT.	Inlet, Pipe	1		72												
F																				
P		S-96	71+21.51	LT.	Inlet, Pipe	1			72											
F																				
P		S-97	71+21.54	RT.	Inlet, Pipe	1		51												
F																				
P		S-98	71+96.47	RT.	Inlet, Pipe	1		71												
F																				
P		S-99	71+96.57	LT.	Inlet, Pipe	1		72												
F																				
P		S-99-1	72+55.30	LT.	Inlet, Pipe	1		15												
F																				
P		S-99-2	72+55.29	LT.	Inlet, Pipe	1		55												
F																				
P		S-100	73+35.21	RT.	Inlet, Pipe	1		51												
F																				
P		S-101	73+35.64	LT.	Inlet, Pipe	1		77												
F																				
P		S-102	76+05.02	RT.	Inlet, Pipe	1		50												
F																				
P		S-102-1	76+15.48	LT.	Manhole, Pipe	1													36	
F																				
P		S-103	76+56.48	LT.	Inlet, Pipe	1													49	
F																				
P		S-104	76+57.14	RT.	Inlet, Pipe	1													70	
F																				
P		S-105	77+31.62	LT.	Inlet, Pipe	1		50												
F																				
P		S-106	77+32.46	RT.	Inlet, Pipe	1													70	
F																				
P		S-107	78+07.19	LT.	Inlet, Pipe	1		50												
F																				
Sheet Summary					P Total		0	614	72	0	0	0	0	0	0	0	0	0	225	0
					F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0

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REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 22A

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING
						P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	H									
						<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	30"	36"	48"	30"	SY
P	S-95	70+46.40	RT.	Inlet, Pipe	1	1																								
F																														
P	S-96	71+21.51	LT.	Inlet, Pipe	1									1																
F																														
P	S-97	71+21.54	RT.	Inlet, Pipe	1				1																					
F																														
P	S-98	71+96.47	RT.	Inlet, Pipe	1	1																								
F																														
P	S-99	71+96.57	LT.	Inlet, Pipe	1						1																			
F																														
P	S-99-1	72+55.30	LT.	Inlet, Pipe	1														1											
F																														
P	S-99-2	72+55.29	LT.	Inlet, Pipe	1						1																			
F																														
P	S-100	73+35.21	RT.	Inlet, Pipe	1	1																								
F																														
P	S-101	73+35.64	LT.	Inlet, Pipe	1						1																			
F																														
P	S-102	76+05.02	RT.	Inlet, Pipe	1														1											
F																														
P	S-102-1	76+15.48	LT.	Manhole, Pipe	1													1												
F																														
P	S-103	76+56.48	LT.	Inlet, Pipe	1								1																	
F																														
P	S-104	76+57.14	RT.	Inlet, Pipe	1			1																						
F																														
P	S-105	77+31.62	LT.	Inlet, Pipe	1									1																
F																														
P	S-106	77+32.46	RT.	Inlet, Pipe	1					1																				
F																														
P	S-107	78+07.19	LT.	Inlet, Pipe	1						1																			
F																														
Sheet Summary				P Total		3	0	1	1	1	4	0	1	1	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 22B

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QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
							CY		
P		S-95	70+46.40	RT.	Inlet, Pipe	1			
F									
P		S-96	71+21.51	LT.	Inlet, Pipe	1			Structure includes price of
F									miscellaneous drainage connection
P		S-97	71+21.54	RT.	Inlet, Pipe	1			
F									
P		S-98	71+96.47	RT.	Inlet, Pipe	1			
F									
P		S-99	71+96.57	LT.	Inlet, Pipe	1			
F									
P		S-99-1	72+55.30	LT.	Inlet, Pipe	1			Structure includes price of
F									miscellaneous drainage connection
P		S-99-2	72+55.29	LT.	Inlet, Pipe	1			
F									
P		S-100	73+35.21	RT.	Inlet, Pipe	1			
F									
P		S-101	73+35.64	LT.	Inlet, Pipe	1			
F									
P		S-102	76+05.02	RT.	Inlet, Pipe	1			
F									
P		S-102-1	76+15.48	LT.	Manhole, Pipe	1			
F									
P		S-103	76+56.48	LT.	Inlet, Pipe	1			
F									
P		S-104	76+57.14	RT.	Inlet, Pipe	1			
F									
P		S-105	77+31.62	LT.	Inlet, Pipe	1			
F									
P		S-106	77+32.46	RT.	Inlet, Pipe	1			
F									
P		S-107	78+07.19	LT.	Inlet, Pipe	1			
F									
Sheet Summary					P Total		0	0	
					F Total		0	0	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
							ROUND							BOX		ELLIPTICAL				
							15"	18"	24"	30"	36"	42"	48"	6x3	6x4	14" x 23"	19" x 30"	24" x 38"	29" x 45"	34" x 53"
P		S-108	78+07.19	RT.	Inlet, Pipe	1													85	
F																				
P		S-109	78+96.97	RT.	Manhole, Pipe	1													8	
F																				
P		S-110	79+08.98	RT.	Manhole	1														
F																				
P		S-111	79+09.86	LT.	Manhole	1														
F																				
P		S-112	80+86.45	RT.	Manhole	1														
F																				
P		S-200	82+02.49	LT.	Inlet, Pipe	1		221												
F																				
P		S-201	82+02.46	LT.	Inlet, Pipe	1		16												
F																				
P		S-202	82+31.19	RT.	Inlet, Pipe	1		192												
F																				
P		S-203	82+64.29	RT.	Manhole, Pipe	1			335											
F																				
P		S-204	84+26.27	RT.	Inlet, Pipe	1		71												
F																				
P		S-205	84+26.95	LT.	Inlet, Pipe	1		72												
F																				
P		S-206	85+01.24	RT.	Inlet, Pipe	1		47												
F																				
P		S-207	85+02.08	LT.	Inlet, Pipe	1			56											
F																				
P		S-208	85+57.23	LT.	Inlet, Pipe	1			44											
F																				
P		S-209	85+76.38	RT.	Inlet, Pipe	1		72												
F																				
P																				
F																				
Sheet Summary	P Total						0	691	435	0	0	0	0	0	0	0	0	0	0	93	0
	F Total						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 23A

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING
						P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	H									
						<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	30"	36"	48"	30"	SY
P	S-108	78+07.19	RT.	Inlet, Pipe	1			1																						
F																														
P	S-109	78+96.97	RT.	Manhole, Pipe	1													1												
F																														
P	S-110	79+08.98	RT.	Manhole	1												1													
F																														
P	S-111	79+09.86	LT.	Manhole	1												1													
F																														
P	S-112	80+86.45	RT.	Manhole	1												1													
F																														
P	S-200	82+02.49	LT.	Inlet, Pipe	1						1																			
F																														
P	S-201	82+02.46	LT.	Inlet, Pipe	1														1											
F																														
P	S-202	82+31.19	RT.	Inlet, Pipe	1	1																								
F																														
P	S-203	82+64.29	RT.	Manhole, Pipe	1												1													
F																														
P	S-204	84+26.27	RT.	Inlet, Pipe	1						1																			
F																														
P	S-205	84+26.95	LT.	Inlet, Pipe	1						1																			
F																														
P	S-206	85+01.24	RT.	Inlet, Pipe	1									1																
F																														
P	S-207	85+02.08	LT.	Inlet, Pipe	1									1																
F																														
P	S-208	85+57.23	LT.	Inlet, Pipe	1						1																			
F																														
P	S-209	85+76.38	RT.	Inlet, Pipe	1						1																			
F																														
P																														
F																														
Sheet Summary				P Total		1	0	1	0	0	5	0	0	2	0	0	4	1	1	0	0	0	0	0	0	0	0	0	0	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 23B

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2/27/2025

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC (CY)	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
P		S-108	78+07.19	RT.	Inlet, Pipe	1			
F									
P		S-109	78+96.97	RT.	Manhole, Pipe	1			
F									
P		S-110	79+08.98	RT.	Manhole	1			Manhole top to adjust rim
F									elevation of existing manhole.
P		S-111	79+09.86	LT.	Manhole	1			Manhole top to adjust rim
F									elevation of existing manhole.
P		S-112	80+86.45	RT.	Manhole	1			Manhole top to adjust rim
F									elevation of existing manhole.
P		S-200	82+02.49	LT.	Inlet, Pipe	1			
F									
P		S-201	82+02.46	LT.	Inlet, Pipe	1			
F									
P		S-202	82+31.19	RT.	Inlet, Pipe	1			
F									
P		S-203	82+64.29	RT.	Manhole, Pipe	1			
F									
P		S-204	84+26.27	RT.	Inlet, Pipe	1			
F									
P		S-205	84+26.95	LT.	Inlet, Pipe	1			
F									
P		S-206	85+01.24	RT.	Inlet, Pipe	1			
F									
P		S-207	85+02.08	LT.	Inlet, Pipe	1			
F									
P		S-208	85+57.23	LT.	Inlet, Pipe	1			
F									
P		S-209	85+76.38	RT.	Inlet, Pipe	1			
F									
P									
F									
Sheet Summary					P Total		0	0	
					F Total		0	0	

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2/27/2025

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 23C

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
						ROUND							BOX		ELLIPTICAL				
						15"	18"	24"	30"	36"	42"	48"	6x3	6x4	14" x 23"	19" x 30"	24" x 38"	29" x 45"	34" x 53"
P	S-210	86+03.57	RT.	Inlet, Pipe	1			285											
F																			
P	S-211	86+04.55	LT.	Inlet, Pipe	1		19												
F																			
P	S-212	86+04.82	LT.	Manhole, Pipe	1			229											
F																			
P	S-213	88+53.40	LT.	Inlet, Pipe	1			168											
F																			
P	S-214	88+92.26	RT.	Manhole, Pipe	1			358											
F																			
P	S-215	90+23.95	LT.	Inlet, Pipe	1		15												
F																			
P	S-216	90+24.77	LT.	Inlet, Pipe	1			72											
F																			
P	S-217	90+30.35	RT.	Inlet, Pipe	1		68												
F																			
P	S-218	90+99.91	LT.	Inlet, Pipe	1				56										
F																			
P	S-219	91+01.89	RT.	Inlet, Pipe	1		51												
F																			
P	S-220	91+60.00	LT.	Inlet, Pipe	2											312			
F																			
P	S-221	91+76.92	RT.	Inlet, Pipe	1		72												
F																			
P	S-222	92+54.01	RT.	Manhole, Pipe	1													84	
F																			
P	S-223	92+54.35	LT.	SCEW	1														
F																			
P	S-224	92+64.15	LT.	FES	1														
F																			
P	S-225	93+00.80	RT.	Manhole, Pipe	1													43	
F																			
Sheet Summary				P Total		0	225	1112	56	0	0	0	0	0	0	312	0	127	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 24A

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2/27/2025

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING
						P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	H									
						<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	30"	36"	48"	29"x45"	SY
P	S-210	86+03.57	RT.	Inlet, Pipe	1															1										
F																														
P	S-211	86+04.55	LT.	Inlet, Pipe	1														1											
F																														
P	S-212	86+04.82	LT.	Manhole, Pipe	1	1																								
F																														
P	S-213	88+53.40	LT.	Inlet, Pipe	1						1																			
F																														
P	S-214	88+92.26	RT.	Manhole, Pipe	1												1													
F																														
P	S-215	90+23.95	LT.	Inlet, Pipe	1														1											
F																														
P	S-216	90+24.77	LT.	Inlet, Pipe	1						1																			
F																														
P	S-217	90+30.35	RT.	Inlet, Pipe	1	1																								
F																														
P	S-218	90+99.91	LT.	Inlet, Pipe	1									1																
F																														
P	S-219	91+01.89	RT.	Inlet, Pipe	1				1																					
F																														
P	S-220	91+60.00	LT.	Inlet, Pipe	2								1																	
F																														
P	S-221	91+76.92	RT.	Inlet, Pipe	1	1																								
F																														
P	S-222	92+54.01	RT.	Manhole, Pipe	1													1												
F																														
P	S-223	92+54.35	LT.	SCEW	1																								1	
F																														
P	S-224	92+64.15	LT.	FES	1																			1						11.00
F																														
P	S-225	93+00.80	RT.	Manhole, Pipe	1													1												
F																														
Sheet Summary				P Total		3	0	0	1	0	2	0	1	1	0	0	1	2	2	1	0	0	0	1	0	0	0	0	1	11
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 24B

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2/27/2025

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC CY	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
P		S-210	86+03.57	RT.	Inlet, Pipe	1			
F									
P		S-211	86+04.55	LT.	Inlet, Pipe	1			
F									
P		S-212	86+04.82	LT.	Manhole, Pipe	1			
F									
P		S-213	88+53.40	LT.	Inlet, Pipe	1			
F									
P		S-214	88+92.26	RT.	Manhole, Pipe	1			
F									
P		S-215	90+23.95	LT.	Inlet, Pipe	1			
F									
P		S-216	90+24.77	LT.	Inlet, Pipe	1			
F									
P		S-217	90+30.35	RT.	Inlet, Pipe	1			
F									
P		S-218	90+99.91	LT.	Inlet, Pipe	1			
F									
P		S-219	91+01.89	RT.	Inlet, Pipe	1			
F									
P		S-220	91+60.00	LT.	Inlet, Pipe	2			
F									
P		S-221	91+76.92	RT.	Inlet, Pipe	1			
F									
P		S-222	92+54.01	RT.	Manhole, Pipe	1			
F									
P		S-223	92+54.35	LT.	SCEW	1	3.26		
F									
P		S-224	92+64.15	LT.	FES	1	0.11		
F									
P		S-225	93+00.80	RT.	Manhole, Pipe	1			
F									
Sheet Summary					P Total		3.37	0	
					F Total		0	0	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 24C

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
						ROUND							BOX		ELLIPTICAL				
						15"	18"	24"	30"	36"	42"	48"	6x3	6x4	14" x 23"	19" x 30"	24" x 38"	29" x 45"	34" x 53"
P	S-226	93+01.09	RT.	Inlet, Pipe	1		4												
F																			
P	S-227	93+20.04	LT.	Inlet, Pipe	1				72										
F																			
P	S-228	94+29.36	LT.	Inlet, Pipe	1		162												
F																			
P																			
F																			
P	S-229	93+53.84	LT.	FES	1														
F																			
P	S-230	95+05.37	LT.	FES	1														
F																			
P	S-231	95+41.29	LT.	Inlet, Pipe	1			69											
F																			
P	S-232	95+41.70	RT.	Inlet, Pipe	1		55												
F																			
P	S-233	95+98.65	LT.	Inlet, Pipe				70											
F																			
P	S-234	96+00.32	RT.	Inlet, Pipe	1		47												
F																			
P	S-235	96+00.31	RT.	Inlet, Pipe	1													296	
F																			
P	S-236	96+73.62	LT.	Inlet, Pipe	1			71											
F																			
P	S-237	96+75.17	RT.	Inlet, Pipe	1		71												
F																			
P	S-238	97+54.77	RT.	Manhole, Pipe	1													150	
F																			
P	S-239	100+02.01	LT.	Inlet, Pipe	1			325											
F																			
P	S-240	100+17.06	RT.	Inlet, Pipe	1		4	258											
F																			
P	S-242	100+36.19	RT.	Inlet, Pipe	1		61												
F																			
P	S-243	101+38.79	RT.	Inlet, Pipe	1		59												
F																			
P	S-244	101+65.75	LT.	Inlet, Pipe	1			160											
F																			
P	S-245	101+99.91	LT.	Inlet, Pipe	1			31											
Sheet Summary				P Total		0	463	984	72	0	0	0	0	0	0	0	0	446	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 25A

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QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING
						P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	H									
						<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	30"	36"	48"	30"	SY
P	S-226	93+01.09	RT.	Inlet, Pipe	1														1											
F																														
P	S-227	93+20.04	LT.	Inlet, Pipe	1								1																	
F																														
P	S-228	94+29.36	LT.	Inlet, Pipe	1															1										
F																														
P																														
F																														
P	S-229	93+53.84	LT.	FES	1																					1				16.00
F																														
P	S-230	95+05.37	LT.	FES	1																				1					14.00
F																														
P	S-231	95+41.29	LT.	Inlet, Pipe	1						1																			
F																														
P	S-232	95+41.70	RT.	Inlet, Pipe	1						1																			
F																														
P	S-233	95+98.65	LT.	Inlet, Pipe	1									1																
F																														
P	S-234	96+00.32	RT.	Inlet, Pipe	1									1																
F																														
P	S-235	96+00.31	RT.	Inlet, Pipe	1															1										
F																														
P	S-236	96+73.62	LT.	Inlet, Pipe	1						1																			
F																														
P	S-237	96+75.17	RT.	Inlet, Pipe	1						1																			
F																														
P	S-238	97+54.77	RT.	Manhole, Pipe	1													1												
F																														
P	S-239	100+02.01	LT.	Inlet, Pipe	1						1																			
F																														
P	S-240	100+17.06	RT.	Inlet, Pipe	1												1													
F																														
P	S-242	100+36.19	RT.	Inlet, Pipe	1	1																								
F																														
P	S-243	101+38.79	RT.	Inlet, Pipe	1	1																								
F																														
P	S-244	101+65.75	LT.	Inlet, Pipe	1						1																			
F																														
P	S-245	101+99.91	LT.	Inlet, Pipe	1									1																
F																														
	Sheet Summary			P Total		2	0	0	0	0	6	0	1	3	0	0	1	1	1	2	0	0	0	0	1	1	0	0	0	30.00
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 25B

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2/27/2025

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC CY	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
P	S-226	93+01.09	RT.	Inlet, Pipe	1			
F								
P	S-227	93+20.04	LT.	Inlet, Pipe	1			
F								
P	S-228	94+29.36	LT.	Inlet, Pipe	1			
F								
P	S-228-1	94+29.30	LT.	Manhole, Pipe	1			
F								
P	S-229	93+53.84	LT.	FES	1	0.24		
F								
P	S-230	95+05.37	LT.	FES	1	0.17		
F								
P	S-231	95+41.29	LT.	Inlet, Pipe	1			
F								
P	S-232	95+41.70	RT.	Inlet, Pipe	1			
F								
P	S-233	95+98.65	LT.	Inlet, Pipe	1			
F								
P	S-234	96+00.32	RT.	Inlet, Pipe	1			
F								
P	S-235	96+00.31	RT.	Inlet, Pipe	1			
F								
P	S-236	96+73.62	LT.	Inlet, Pipe	1			
F								
P	S-237	96+75.17	RT.	Inlet, Pipe	1			
F								
P	S-238	97+54.77	RT.	Manhole, Pipe	1			
F								
P	S-239	100+02.01	LT.	Inlet, Pipe	1			
F								
P	S-240	100+17.06	RT.	Inlet, Pipe	1			4' stub pipe&plug for tie in from
F								future development by others
P	S-242	100+36.19	RT.	Inlet, Pipe	1			
F								
P	S-243	101+38.79	RT.	Inlet, Pipe	1			
F								
P	S-244	101+65.75	LT.	Inlet, Pipe	1			
F								
P	S-245	101+99.91	LT.	Inlet, Pipe	1			
Sheet Summary				P Total		0.41	0	
				F Total		0	0	

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 25C

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QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
						ROUND							BOX		ELLIPTICAL				
						15"	18"	24"	30"	36"	42"	48"	6x3	6x4	14" x 23"	19" x 30"	24" x 38"	29" x 45"	34" x 53"
P	S-246	102+01.90	RT.	Inlet, Pipe	1			51											
F																			
P	S-248	102+89.98	RT.	Inlet, Pipe	1			85											
F																			
P	S-249	102+88.66	LT.	Inlet, Pipe	1		85												
F																			
P	S-249-A	102+88.66	LT.	Inlet, Pipe	1	12													
F																			
P	S-249-B	103+55.00	LT.	Inlet, Pipe	1	63													
F																			
P	S-249-C	103+55.00	LT.	Inlet, Pipe	1	14													
F																			
P	S-249-D	105+00.00	LT.	Inlet, Pipe	1	142													
F																			
P	S-249-E	105+00.00	LT.	Inlet, Pipe	1	12													
F																			
P	S-300	104+49.76	RT.	Manhole, Pipe	2										158	156			
F																			
P	S-301	105+32.50	RT.	Inlet, Pipe	2										94				
F																			
P	S-301-1	105+66.49	LT.	MES, Pipe	1		18												
F																			
P	S-301-2	105+66.99	LT.	Manhole, Pipe	2										180				
F																			
P	S-302	105+37.03	LT.	Inlet, Pipe	2										50				
F																			
P	S-302-1	106+61.36	LT.	Inlet, Pipe	2											294			
F																			
P	S-303	108+12.07	RT.	Inlet, Pipe	1		48												
F																			
P	S-303-1	107+15.54	RT.	Inlet, Pipe	1		93												
F																			
P	S-304	108+12.74	LT.	Inlet, Pipe	1		12												
F																			
Sheet Summary				P Total		241	256	136	0	0	0	0	0	0	482	450	0	0	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 26A

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING
						P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	H									
						<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	30"	36"	48"	30"	SY
P	S-246	102+01.90	RT.	Inlet, Pipe	1				1																					
F																														
P	S-248	102+89.98	RT.	Inlet, Pipe	1	1																								
F																														
P	S-249	102+88.66	LT.	Inlet, Pipe	1						1																			
F																														
P	S-249-A	102+88.66	LT.	Inlet, Pipe	1												1													
F																														
P	S-249-B	103+55.00	LT.	Inlet, Pipe	1						1																			
F																														
P	S-249-C	103+55.00	LT.	Inlet, Pipe	1												1													
F																														
P	S-249-D	105+00.00	LT.	Inlet, Pipe	1						1																			
F																														
P	S-249-E	105+00.00	LT.	Inlet, Pipe	1												1													
F																														
P	S-300	104+49.76	RT.	Manhole, Pipe	2													1												
F																														
P	S-301	105+32.50	RT.	Inlet, Pipe	2			1																						
F																														
P	S-301-1	105+66.49	LT.	MES, Pipe	1																	1								
F																														
P	S-301-2	105+66.99	LT.	Manhole, Pipe	2													1												
F																														
P	S-302	105+37.03	LT.	Inlet, Pipe	2								1																	
F																														
P	S-302-1	106+61.36	LT.	Inlet, Pipe	2								1																	
F																														
P	S-303	108+12.07	RT.	Inlet, Pipe	1	1																								
F																														
P	S-303-1	107+15.54	RT.	Inlet, Pipe	1	1																								
F																														
P	S-304	108+12.74	LT.	Inlet, Pipe	1														1											
F																														
	Sheet Summary			P Total		3	0	1	1	0	3	0	2	0	0	0	3	2	1	0	0	1	0	0	0	0	0	0	0	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 26B

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QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC (CY)	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
P		S-246	102+01.90	RT.	Inlet, Pipe	1			
F									
P		S-248	102+89.98	RT.	Inlet, Pipe	1			
F									
P		S-249	102+88.66	LT.	Inlet, Pipe	1			
F									
P		S-249-A	102+88.66	LT.	Inlet, Pipe	1		1	Yard Drain
F									
P		S-249-B	103+55.00	LT.	Manhole, Pipe	1			
F									
P		S-249-C	103+55.00	LT.	Inlet, Pipe	1		1	Yard Drain
F									
P		S-249-D	105+00.00	LT.	Manhole, Pipe	1			
F									
P		S-249-E	105+00.00	LT.	Inlet, Pipe	1		1	Yard Drain
F									
P		S-300	104+49.76	RT.	Manhole, Pipe	2			No precast cone riser required
F									
P		S-301	105+32.50	RT.	Inlet, Pipe	2			
F									
P		S-301-1	105+66.49	LT.	MES, Pipe	1	0.44		1:4
F									
P		S-301-2	105+66.99	LT.	Manhole, Pipe	2			
F									
P		S-302	105+37.03	LT.	Inlet, Pipe	2			
F									
P		S-302-1	106+61.36	LT.	Inlet, Pipe	2			
F									
P		S-303	108+12.07	RT.	Inlet, Pipe	1			
F									
P		S-303-1	107+15.54	RT.	Inlet, Pipe	1			
F									
P		S-304	108+12.74	LT.	Inlet, Pipe	1			
F									
Sheet Summary	P Total						0.44	3	
	F Total						0	0	

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
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SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 26C

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2/27/2025

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
						ROUND							BOX		ELLIPTICAL				
						15"	18"	24"	30"	36"	42"	48"	6x3	6x4	14" x 23"	19" x 30"	24" x 38"	29" x 45"	34" x 53"
P	S-305	108+13.04	LT.	Inlet, Pipe	2											256			
F																			
P	S-306	109+44.39	LT.	Inlet, Pipe	2											108			
F																			
P	S-307	109+45.10	RT.	Inlet, Pipe	1		52												
F																			
P	S-308	110+01.48	RT.	Inlet, Pipe	1		48												
F																			
P	S-309	110+02.08	LT.	Inlet, Pipe	2											106			
F																			
P	S-310	110+58.97	LT.	Culvert	1								6						
F																			
P	S-311	110+58.28	RT.	Manhole	1														
F																			
P	S-312	110+60.31	LT.	Manhole	1														
F																			
P	S-313	110+60.26	LT.	Culvert	1								7						
F																			
P	S-314	110+58.42	RT.	Culvert	1								3						
F																			
P	S-400	112+71.36	RT.	Inlet, Pipe	1		51												
F																			
P	S-401	112+71.31	LT.	Inlet, Pipe	1		193												
F																			
P	S-401-1	114+67.31	LT.	Inlet, Pipe	1		12												
F																			
P	S-401-2	114+67.50	LT.	Inlet, Pipe	1		83												
F																			
P	S-402	115+53.32	RT.	Inlet, Pipe	1		68												
F																			
P	S-403	115+53.39	LT.	Inlet, Pipe	1		68												
F																			
P	S-404	116+24.98	LT.	Inlet, Pipe	1		75												
F																			
P	S-405	116+25.03	RT.	Inlet, Pipe	1		51												
F																			
P	S-406	117+03.23	RT.	Inlet, Pipe	1		75												
F																			
Sheet Summary				P Total		0	776	0	0	0	0	0	16	0	0	470	0	0	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 27A

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2/27/2025

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS										MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING
							P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	V									
							<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	30"	36"	48"	18"	SY
P	S-305	108+13.04	LT.	Inlet, Pipe	2								1																	
F																														
P	S-306	109+44.39	LT.	Inlet, Pipe	2								1																	
F																														
P	S-307	109+45.10	RT.	Inlet, Pipe	1	1																								
F																														
P	S-308	110+01.48	RT.	Inlet, Pipe	1					1																				
F																														
P	S-309	110+02.08	LT.	Inlet, Pipe	2										1															
F																														
P	S-310	110+58.97	LT.	Culvert	1																								1	
F																														
P	S-311	110+58.28	RT.	Manhole	1													1												
F																														
P	S-312	110+60.31	LT.	Manhole	1													1												
F																														
P	S-313	110+60.26	LT.	Culvert	1																									
F																														
P	S-314	110+58.42	RT.	Culvert	1																									
F																														
P	S-400	112+71.36	RT.	Inlet, Pipe	1	1																								
F																														
P	S-401	112+71.31	LT.	Inlet, Pipe	1						1																			
F																														
P	S-401-1	114+67.31	LT.	Inlet, Pipe	1																									
F																														
P	S-401-2	114+67.50	LT.	Inlet, Pipe	1						1																			
F																														
P	S-402	115+53.32	RT.	Inlet, Pipe	1	1																								
F																														
P	S-403	115+53.39	LT.	Inlet, Pipe	1						1																			
F																														
P	S-404	116+24.98	LT.	Inlet, Pipe	1									1																
F																														
P	S-405	116+25.03	RT.	Inlet, Pipe	1				1																					
F																														
P	S-406	117+03.23	RT.	Inlet, Pipe	1	1																								
F																														
	Sheet Summary				P Total		4	0	0	1	1	3	0	2	1	1	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0
					F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 27B

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QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC CY	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
P	S-305	108+13.04	LT.	Inlet, Pipe	2			
F								
P	S-306	109+44.39	LT.	Inlet, Pipe	2			
F								
P	S-307	109+45.10	RT.	Inlet, Pipe	1			
F								
P	S-308	110+01.48	RT.	Inlet, Pipe	1			
F								
P	S-309	110+02.08	LT.	Inlet, Pipe	2			
F								
P	S-310	110+58.97	LT.	Culvert	1			
F								
P	S-311	110+58.28	RT.	Manhole	1			
F								
P	S-312	110+60.31	LT.	Manhole	1			
F								
P	S-313	110+60.26	LT.	Culvert	1			
F								
P	S-314	110+58.42	RT.	Culvert	1			
F								
P	S-400	112+71.36	RT.	Inlet, Pipe	1			
F								
P	S-401	112+71.31	LT.	Inlet, Pipe	1			
F								
P	S-401-1	114+67.31	LT.	Inlet, Pipe	1			
F								
P	S-401-2	114+67.50	LT.	Inlet, Pipe	1			
F								
P	S-402	115+53.32	RT.	Inlet, Pipe	1			
F								
P	S-403	115+53.39	LT.	Inlet, Pipe	1			
F								
P	S-404	116+24.98	LT.	Inlet, Pipe	1			
F								
P	S-405	116+25.03	RT.	Inlet, Pipe	1			
F								
P	S-406	117+03.23	RT.	Inlet, Pipe	1			
F								
	Sheet Summary			P Total		0	0	
				F Total		0	0	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 27C

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
						ROUND							BOX		ELLIPTICAL				
						15"	18"	24"	30"	36"	42"	48"	6x3	6x4	14" x 23"	19" x 30"	24" x 38"	29" x 45"	34" x 53"
P	S-407	117+03.46	LT.	Inlet, Pipe	1			293											
F																			
P	S-408	119+98.75	RT.	Inlet, Pipe	1		51												
F																			
P	S-409	119+99.57	LT.	Inlet, Pipe	1			212											
F																			
P	S-410	122+05.58	RT.	Inlet, Pipe	1		131												
F																			
P	S-411	122+15.06	LT.	Inlet, Pipe	1			121											
F																			
P	S-412	123+39.73	LT.	Inlet, Pipe	1			71											
F																			
P	S-413	123+39.76	RT.	Inlet, Pipe	1		51												
F																			
P	S-414	124+14.57	LT.	Inlet, Pipe	1			81											
F																			
P	S-415	124+14.62	RT.	Inlet, Pipe	1		72												
F																			
P	S-416	124+98.65	LT.	Inlet, Pipe	1			66											
F																			
P	S-417	125+65.18	LT.	Manhole, Pipe	1			399											
F																			
P	S-418-A	126+63.38	LT.	FES	1														
F																			
P	S-418	127+75.81	LT.	Inlet, Pipe	1			117											
F																			
P	S-419	126+83.40	LT.	Inlet, Pipe	1			165											
F																			
P	S-419-1	127+43.68	RT.	Inlet, Pipe	1		53												
F																			
P	S-419-1A	127+00.00	RT.	Inlet, Pipe	1	42													
F																			
P	S-419-1B	128+00.00	RT.	Inlet, Pipe	1		49												
F																			
P	S-420	128+51.95	LT.	Inlet, Pipe	1			72											
F																			
P	S-420-A	128+37.25	LT.	MES	1			92											
F																			
Sheet Summary				P Total		42	356	1689	0	0	0	0	0	0	0	0	0	0	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 28A

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QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING
						P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	V									
						<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	30"	36"	48"	30"	SY
P	S-407	117+03.46	LT.	Inlet, Pipe	1						1																			
F																														
P	S-408	119+98.75	RT.	Inlet, Pipe	1	1																								
F																														
P	S-409	119+99.57	LT.	Inlet, Pipe	1							1																		
F																														
P	S-410	122+05.58	RT.	Inlet, Pipe	1	1																								
F																														
P	S-411	122+15.06	LT.	Inlet, Pipe	1						1																			
F																														
P	S-412	123+39.73	LT.	Inlet, Pipe	1									1																
F																														
P	S-413	123+39.76	RT.	Inlet, Pipe	1				1																					
F																														
P	S-414	124+14.57	LT.	Inlet, Pipe	1						1																			
F																														
P	S-415	124+14.62	RT.	Inlet, Pipe	1	1																								
F																														
P	S-416	124+98.65	LT.	Inlet, Pipe	1							1																		
F																														
P	S-417	125+65.18	LT.	Manhole, Pipe	1												1													
F																														
P	S-418-A	126+63.38	LT.	FES	1																			1						
F																														
P	S-418	127+75.81	LT.	Inlet, Pipe	1															1										
F																														
P	S-419	126+83.40	LT.	Inlet, Pipe	1						1																			
F																														
P	S-419-1	127+43.68	RT.	Inlet, Pipe	1	1																								
F																														
P	S-419-1A	127+00.00	RT.	Inlet, Pipe	1														1											
F																														
P	S-419-1B	128+00.OO	RT.	Inlet, Pipe	1																1									
F																														
P	S-420	128+51.95	LT.	Inlet, Pipe	1						1																			
F																														
P	S-420-A	128+37.25	LT.	MES	1																				1					
F																														
	Sheet Summary			P Total		4	0	0	1	0	5	2	0	1	0	0	1	0	1	1	1	0	0	1	1	0	0	0	0	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 28B

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QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC (CY)	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
P	S-407	117+03.46	LT.	Inlet, Pipe	1			
F								
P	S-408	119+98.75	RT.	Inlet, Pipe	1			
F								
P	S-409	119+99.57	LT.	Inlet, Pipe	1			
F								
P	S-410	122+05.58	RT.	Inlet, Pipe	1			
F								
P	S-411	122+15.06	LT.	Inlet, Pipe	1			
F								
P	S-412	123+39.73	LT.	Inlet, Pipe	1			
F								
P	S-413	123+39.76	RT.	Inlet, Pipe	1			
F								
P	S-414	124+14.57	LT.	Inlet, Pipe	1			
F								
P	S-415	124+14.62	RT.	Inlet, Pipe	1			
F								
P	S-416	124+98.65	LT.	Inlet, Pipe	1			
F								
P	S-417	125+65.18	LT.	Manhole, Pipe	1			
F								
P	S-418-A	126+63.38	LT.	FES	1			
F								
P	S-418	127+75.81	LT.	Inlet, Pipe	1			
F								
P	S-419	126+83.40	LT.	Inlet, Pipe	1			
F								
P	S-419-1	127+43.68	RT.	Inlet, Pipe	1			
F								
P	S-419-1A	127+00.00	RT.	Inlet, Pipe	1			
F								
P	S-419-1B	128+00.00	RT.	Inlet, Pipe	1			
F								
P	S-420	128+51.95	LT.	Inlet, Pipe	1			
F								
P	S-420-A	128+37.25	LT.	MES	1			
F								
Sheet Summary				P Total		0	0	
				F Total		0	0	

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 28C

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
						ROUND							BOX		ELLIPTICAL				
						15"	18"	24"	30"	36"	42"	48"	6x3	6x4	14" x 23"	19" x 30"	24" x 38"	29" x 45"	34" x 53"
P	S-421	128+52.08	RT.	Inlet, Pipe	1		71												
F																			
P	S-422	129+26.82	LT.	Inlet, Pipe	1			72											
F																			
P	S-423	129+27.39	RT.	Inlet, Pipe	1		49												
F																			
P	S-424	130+01.38	LT.	Inlet, Pipe	1			273											
F																			
P	S-425	130+40.00	RT.	Inlet, Pipe	1		109												
F																			
P	S-425A	130+40.00	RT.	Inlet, Pipe	1	3													
F																			
P	S-426	126+67.22	LT.	Manhole, Pipe	1			213											
F																			
P	S-427	127+13.40	LT.	Manhole, Pipe	1			247											
F																			
P	S-428	127+66.12	LT.	Manhole, Pipe	1			72											
F																			
P	S-429	128+25.78	LT.	FES	1														
F																			
P	S-430	130+40.96	LT.	Inlet, Pipe	1			104											
F																			
P	S-431	131+39.16	LT.	FES	1														
F																			
P	S-432	130+96.29	RT.	Inlet, Pipe	1		52												
F																			
P	S-500	135+48.38	RT.	Inlet, Pipe	1		157												
F																			
P	S-500-1	132+78.01	LT.	Inlet, Pipe	1			55											
F																			
P	S-500-2	132+79.95	RT.	Inlet, Pipe	1			194											
F																			
P	S-500-3	134+75.85	RT.	Inlet, Pipe	1			118											
F																			
P	S-500-4	135+96.57	RT.	Inlet, Pipe	1			86											
F																			
Sheet Summary				P Total		3	438	1434	0	0	0	0	0	0	0	0	0	0	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 29A

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QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING
						P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	H									
						<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	30"	36"	48"	30"	SY
P	S-421	128+52.08	RT.	Inlet, Pipe	1	1																								
F																														
P	S-422	129+26.82	LT.	Inlet, Pipe	1									1																
F																														
P	S-423	129+27.39	RT.	Inlet, Pipe	1				1																					
F																														
P	S-424	130+01.38	LT.	Inlet, Pipe	1						1																			
F																														
P	S-425	130+40.00	RT.	Inlet, Pipe	1	1																								
F																														
P	S-425A	130+40.00	RT.	Inlet, Pipe	1														1											
F																														
P	S-426	126+67.22	LT.	Manhole, Pipe	1												1													
F																														
P	S-427	127+13.40	LT.	Manhole, Pipe	1												1													
F																														
P	S-428	127+66.12	LT.	Manhole, Pipe	1													1												
F																														
P	S-429	128+25.78	LT.	FES	1																				1					14.00
F																														
P	S-430	130+40.96	LT.	Inlet, Pipe	1															1										
F																														
P	S-431	131+39.16	LT.	FES	1																				1					14.00
F																														
P	S-432	130+96.29	RT.	Inlet, Pipe	1	1																								
F																														
P	S-500	135+48.38	RT.	Inlet, Pipe	1															1										
F																														
P	S-500-1	132+78.01	LT.	Inlet, Pipe	1	1																								
F																														
P	S-500-2	132+79.95	RT.	Inlet, Pipe	1	1																								
F																														
P	S-500-3	134+75.85	RT.	Inlet, Pipe	1	1																								
F																														
P	S-500-4	135+96.57	RT.	Inlet, Pipe	1	1																								
F																														
	Sheet Summary			P Total		7	0	0	1	0	1	0	0	1	0	0	2	1	1	2	0	0	0	0	2	0	0	0	0	28.00
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 29B

0:\2017\1710782_002_Orange_Blvd_(CR_431)\Orange_Blvd_CADD\drainage\SUMDRD01.dgn
2:04:33 PM
2/27/2025

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC (CY)	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
P	S-421	128+52.08	RT.	Inlet, Pipe	1			
F								
P	S-422	129+26.82	LT.	Inlet, Pipe	1			
F								
P	S-423	129+27.39	RT.	Inlet, Pipe	1			
F								
P	S-424	130+01.38	LT.	Inlet, Pipe	1			
F								
P	S-425	130+40.00	RT.	Inlet, Pipe	1			
F								
P	S-426	126+67.22	LT.	Manhole, Pipe	1			
F								
P	S-427	127+13.40	LT.	Manhole, Pipe	1			
F								
P	S-428	127+66.12	LT.	Manhole, Pipe	1			
F								
P	S-429	128+25.78	LT.	FES	1	0.17		
F								
P	S-430	130+40.96	LT.	Inlet, Pipe	1			
F								
P	S-431	131+39.16	LT.	FES	1	0.17		
F								
P	S-432	130+96.29	RT.	Inlet, Pipe	1			
F								
P	S-500	135+48.38	RT.	Inlet, Pipe	1			Existing Structure
F								
P	S-500-1	132+78.01	LT.	Inlet, Pipe	1			
F								
P	S-500-2	132+79.95	RT.	Inlet, Pipe	1			
F								
P	S-500-3	134+75.85	RT.	Inlet, Pipe	1			
F								
P	S-500-4	135+96.57	RT.	Inlet, Pipe	1			
F								
Sheet Summary				P Total		0.34	0	
				F Total		0	0	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 29C

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2:04:52 PM
2/27/2025

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
							ROUND							BOX		ELLIPTICAL				
							15"	18"	24"	30"	36"	42"	48"	6x3	6x4	14" x 23"	22" x 34"	24" x 38"	29" x 45"	34" x 53"
P		S-500-5	136+64.18	LT.	Inlet, Pipe	1														
F																				
P		S-500-6	134+75.90	LT.	Inlet, Pipe	1		66												
F																				
P		S-501	136+34.22	RT.	Pipe	1											102			
F																				
P		S-505	136+48.30	RT.	Inlet, Pipe	1			26											
F																				
P		S-506	136+67.82	RT.	Inlet, Pipe	1											37			
F																				
P		S-506-1	136+89.63	RT.	Manhole, Pipe	1											72			
F																				
P		S-506-2	136+51.27	RT.	Manhole, Pipe	1			80											
F																				
P		S-508	139+00.79	RT.	Inlet, Pipe	1		116												
F																				
P		S-508-A	138+60.00	RT.	Inlet, Pipe	1	13													
F																				
P		S-508-B	139+00.79	RT.	Inlet, Pipe	1	10													
F																				
P		S-508-C	140+21.38	RT.	MES, Pipe	1		120												
F																				
P		S-508-D	138+51.27	RT.	Inlet, Pipe	1		45												
F																				
P		S-510	141+45.89	RT.	Inlet, Pipe	1			79											
F																				
P		S-511	141+52.01	LT.	Inlet, Pipe	1		52												
F																				
P		S-514	142+29.75	RT.	Inlet, Pipe	1			68											
F																				
P		S-515	142+48.02	RT.	FES	1														
F																				
P		S-516	145+37.61	RT.	Inlet, Pipe	1				63										
F																				
Sheet Summary					P Total		23	399	253	63	0	0	0	0	0	0	211	0	0	0
					F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 30A

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2:04:26 PM
2/27/2025

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING
						P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	H									
						<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	30"	36"	48"	30"	SY
P	S-500-5	136+64.18	LT.	Inlet, Pipe	1	1																								
F																														
P	S-500-6	134+75.90	LT.	Inlet, Pipe	1	1																								
F																														
P	S-501	136+34.22	RT.	Manhole, Pipe	1													1												
F																														
P	S-505	136+48.30	RT.	Inlet, Pipe	1	1																								
F																														
P	S-506	136+67.82	RT.	Inlet, Pipe	1	1																								
F																														
P	S-506-1	136+89.63	RT.	Manhole, Pipe	1													1												
F																														
P	S-506-2	137+63.33	RT.	Inlet, Pipe	1	1																								
F																														
P	S-508	139+00.79	RT.	Inlet, Pipe	1	1																								
F																														
P	S-508-A	138+60.00	RT.	Inlet, Pipe	1												1													
F																														
P	S-508-B	139+00.79	RT.	Inlet, Pipe	1												1													
F																														
P	S-508-C	140+21.38	RT.	MES, Pipe	1														1											
F																														
P	S-508-D	138+51.27	RT.	Inlet, Pipe	1	1																								
F																														
P	S-510	141+45.89	RT.	Inlet, Pipe	1	1																								
F																														
P	S-511	141+52.01	LT.	Inlet, Pipe	1						1																			
F																														
P	S-514	142+29.75	RT.	Inlet, Pipe	1	1																								
F																														
P	S-515	142+48.02	RT.	FES	1																				1					
F																														
P	S-516	145+37.61	RT.	Inlet, Pipe	1															1										
F																														
	Sheet Summary			P Total		9	0	0	0	0	1	0	0	0	0	0	2	2	1	1	0	0	0	0	1	0	0	0	0	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 30B

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2/27/2025

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC (CY)	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
P	S-500-5	136+64.18	LT.	Inlet, Pipe	1			
F								
P	S-500-6	134+75.90	LT.	Inlet, Pipe	1			
F								
P	S-501	136+34.22	RT.	Pipe	1			
F								
P	S-505	136+48.30	RT.	Inlet, Pipe	1			
F								
P	S-506	136+67.82	RT.	Inlet, Pipe	1			
F								
P	S-506-1	136+89.63	RT.	Manhole, Pipe	1			
F								
P	S-506-2	136+51.27	RT.	Manhole, Pipe	1			
F								
P	S-508	139+00.79	RT.	Inlet, Pipe	1			
F								
P	S-508-A	138+60.00	RT.	Inlet, Pipe	1		1	Yard Drain
F								
P	S-508-B	139+00.79	RT.	Inlet, Pipe	1		1	Yard Drain
F								
P	S-508-C	140+21.38	RT.	MES, Pipe	1		1	Shallow Ditches
F								
P	S-508-D	138+51.27	RT.	Inlet, Pipe	1			
F								
P	S-510	141+45.89	RT.	Inlet, Pipe	1			
F								
P	S-511	141+52.01	LT.	Inlet, Pipe	1			
F								
P	S-514	142+29.75	RT.	Inlet, Pipe	1			
F								
P	S-515	142+48.02	RT.	FES	1	0.17		
F								
P	S-516	145+37.61	RT.	Inlet, Pipe	1			
F								
	Sheet Summary			P Total		0.17	3	
				F Total		0	0	

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 30C

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2/27/2025

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
							ROUND							BOX		ELLIPTICAL				
							15"	18"	24"	30"	36"	42"	48"	6x3	6x4	14" x 23"	19" x 30"	24" x 38"	29" x 45"	34" x 53"
P		S-517	145+48.14	RT.	Inlet, Pipe	2														110
F																				
P		S-519	145+51.68	LT.	Inlet, Pipe	2							550							
F																				
P		S-519-A	146+00.72	LT.	SCEW	2														
F																				
P		S-519-B	145+73.94	LT.	Manhole, Pipe	2							690							
F																				
P		S-521	146+04.96	LT.	Manhole, Pipe	1		132												
F																				
P		S-522	146+04.88	LT.	Inlet, Pipe	1		11												
F																				
P		S-523-A	146+07.49	RT.	Inlet, Pipe	1		111												
F																				
P																				
F																				
P		S-523-C	145+28.33	RT.	FES	1														
F																				
P		S-523	146+13.53	RT.	Manhole, Pipe	1			110											
F																				
P		S-524	146+19.02	RT.	Manhole, Pipe	2														118
F																				
P		S-524-1	146+84.17	RT.	Inlet, Pipe	1			16											
F																				
P		S-524-2	146+17.66	RT.	Manhole, Pipe	2												80		
F																				
P		S-524-3	146+64.41	RT.	Inlet, Pipe	2												80		
F																				
P		S-524-4	146+45.57	RT.	Manhole, Pipe	1			76											
F																				
P		S-524-5	146+92.24	RT.	FES	2			84											
F																				
P		S-525	147+39.08	LT.	Inlet, Pipe	1		11												
F																				
Sheet Summary	P Total						0	265	286	0	0	0	1240	0	0	0	0	160	0	228
	F Total						0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 31A

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2/27/2025

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING
						P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	A									
						<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	30"	36"	48"	48"	SY
P	S-517	145+48.14	RT.	Inlet, Pipe	2			1																						
F																														
P	S-519	145+51.68	LT.	Inlet, Pipe	2			1																						
F																														
P	S-519-A	146+00.72	LT.	SCEW	2																								1	
F																														
P	S-519-B	145+73.94	LT.	Manhole, Pipe	2												1													
F																														
P	S-521	146+04.96	LT.	Manhole, Pipe	1												1													
F																														
P	S-522	146+04.88	LT.	Inlet, Pipe	1														1											
F																														
P	S-523-A	146+07.49	RT.	Inlet, Pipe	1														1											
F																														
P																														
F																														
P	S-523-C	145+28.33	RT.	FES	1																						1			
F																														
P	S-523	146+13.53	RT.	Manhole, Pipe	1												1													
F																														
P	S-524	146+19.02	RT.	Manhole, Pipe	2																1									
F																														
P	S-524-1	146+84.17	RT.	Inlet, Pipe	1															1										
F																														
P	S-524-2	146+17.66	RT.	Manhole, Pipe	2													1												
F																														
P	S-524-3	146+60.41	RT.	Inlet, Pipe	2														1											
F																														
P	S-524-4	146+45.57	RT.	Manhole, Pipe	1													1												
F																														
P	S-524-5	146+92.24	RT.	FES	2																				1					
F																														
P	S-525	147+39.08	LT.	Inlet, Pipe	1														1											
F																														
Sheet Summary				P Total		0	0	2	0	0	0	0	0	0	0	0	3	2	4	1	1	0	0	0	1	0	1	0	1	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 31B

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2/27/2025

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC (CY)	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
P	S-517	145+48.14	RT.	Inlet, Pipe	2			
F								
P	S-519	145+51.68	LT.	Inlet, Pipe	2			
F								
P	S-519-A	146+00.72	LT.	SCEW	1			
F								
P	S-519-B	145+73.94	LT.	Manhole, Pipe	1			
F								
P	S-521	146+04.96	LT.	Manhole, Pipe	1			
F								
P	S-522	146+04.88	LT.	Inlet, Pipe	1			
F								
P	S-523-A	146+07.49	RT.	Inlet, Pipe	1			
F								
P	S-523-B	146+16.96	RT.	Inlet, Pipe	1			
F								
P	S-523-C	145+28.33	RT.	FES	1			
F								
P	S-523	146+13.53	RT.	Manhole, Pipe	1			
F								
P	S-524	146+19.02	RT.	Manhole, Pipe	2			
F								
P	S-524-1	146+84.17	RT.	Inlet, Pipe	1			
F								
P	S-524-2	146+17.66	RT.	Manhole, Pipe	2			
F								
P	S-524-3	146+60.41	RT.	Inlet, Pipe	2			
F								
P	S-524-4	146+45.57	RT.	Manhole, Pipe	1			
F								
P	S-524-5	146+92.24	RT.	FES	2			
F								
P	S-525	147+39.08	LT.	Inlet, Pipe	1			
F								
Sheet Summary				P Total		0	0	
				F Total		0	0	

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2/27/2025

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 31C

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
						ROUND							BOX		ELLIPTICAL				
						15"	18"	24"	30"	36"	42"	48"	6x3	6x4	14" x 23"	19" x 30"	24" x 38"	29" x 45"	34" x 53"
P	S-526	147+39.50	LT.	Inlet, Pipe	1		171												
F																			
P	S-527	148+37.56	RT.	Inlet, Pipe	1			211											
F																			
P	S-527-1	148+05.47	RT.	Inlet, Pipe	1		21												
F																			
P	S-527-2	148+30.70	RT.	Manhole, Pipe	1		171												
F																			
P	S-528	149+13.03	RT.	Inlet, Pipe	1		72												
F																			
P	S-529	149+12.92	LT.	Inlet, Pipe	1		24												
F																			
P	S-529-1	148+91.76	LT.	FES	1														
F																			
P	S-530	149+88.48	RT.	Inlet, Pipe	1		72												
F																			
P	S-531	149+87.40	LT.	Inlet, Pipe	1		72												
F																			
P	S-532	151+40.82	RT.	Inlet, Pipe	1		148												
F																			
P	S-600-1	151+68.29	RT.	Inlet, Pipe	1		207												
F																			
P	S-600	153+39.70	RT.	Inlet, Pipe	1		73												
F																			
P	S-601	153+40.85	LT.	Inlet, Pipe	1		53												
F																			
P	S-602	153+80.42	RT.	Manhole, Pipe	1				54										
F																			
P	S-602-1	153+81.20	RT.	Pipe	1		26												
F																			
P	S-603	153+96.35	LT.	Inlet, Pipe	1		91												
F																			
Sheet Summary				P Total		0	1201	211	54	0	0	0	0	0	0	0	0	0	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 32A

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2/27/2025

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING
						P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	H									
						<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	30"	36"	48"	30"	SY
P	S-526	147+39.50	LT.	Inlet, Pipe	1														1											
F																														
P	S-527	148+37.56	RT.	Inlet, Pipe	1														1											
F																														
P	S-527-1	148+05.47	RT.	Inlet, Pipe	1															1										
F																														
P	S-527-2	148+30.70	RT.	Manhole, Pipe	1												1													
F																														
P	S-528	149+13.03	RT.	Inlet, Pipe	1														1											
F																														
P	S-529	149+12.92	LT.	Inlet, Pipe	1														1											
F																														
P	S-529-1	148+91.76	LT.	FES	1																			1						11.00
F																														
P	S-530	149+88.48	RT.	Inlet, Pipe	1														1											
F																														
P	S-531	149+87.40	LT.	Inlet, Pipe	1														1											
F																														
P	S-532	151+40.82	RT.	Inlet, Pipe	1	1																								
F																														
P	S-600-1	151+68.29	RT.	Inlet, Pipe	1														1											14.00
F																														
P	S-600	153+39.70	RT.	Inlet, Pipe	1	1																								
F																														
P	S-601	153+40.85	LT.	Inlet, Pipe	1	1																								
F																														
P	S-602	153+80.42	RT.	Manhole, Pipe	1												1													
F																														
P	S-602-1	153+81.20	RT.	Pipe	1															1										
F																														
P	S-603	153+96.35	LT.	Inlet, Pipe	1				1																					
F																														
	Sheet Summary			P Total		3	0	0	1	0	0	0	0	0	0	0	2	0	7	2	0	0	0	1	0	0	0	0	0	25.00
				F Total	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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2/27/2025

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 32B

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
							CY		
P		S-526	147+39.50	LT.	Inlet, Pipe	1			
F									
P		S-527	148+37.56	RT.	Inlet, Pipe	1			
F									
P		S-527-1	148+05.47	RT.	Inlet, Pipe	1			
F									
P		S-527-2	148+30.70	RT.	Manhole, Pipe	1			
F									
P		S-528	149+13.03	RT.	Inlet, Pipe	1			
F									
P		S-529	149+12.92	LT.	Inlet, Pipe	1			
F									
P		S-529-1	148+91.76	LT.	FES	1	0.11		
F									
P		S-530	149+88.48	RT.	Inlet, Pipe	1			
F									
P		S-531	149+87.40	LT.	Inlet, Pipe	1			
F									
P		S-532	151+40.82	RT.	Inlet, Pipe	1			
F									
P		S-600-1	151+68.29	RT.	Inlet, Pipe	1			
F									
P		S-600	153+39.70	RT.	Inlet, Pipe	1			
F									
P		S-601	153+40.85	LT.	Inlet, Pipe	1			
F									
P		S-602	153+80.42	RT.	Manhole, Pipe	1			
F									
P		S-602-1	153+81.20	RT.	Pipe	1			Existing Structure
F									To Be Relocated
P		S-603	153+96.35	LT.	Inlet, Pipe	1			
Sheet Summary					P Total		0.11	0	
					F Total		0	0	

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 32C

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2/27/2025

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL													
						ROUND							BOX		ELLIPTICAL				
						15"	18"	24"	30"	36"	42"	60"	6x3	6x4	14" x 23"	19" x 30"	24" x 38"	29" x 45"	34" x 53"
P	S-604	154+15.91	RT.	Inlet, Pipe	1		67												
F																			
P	S-605	154+91.44	LT.	Inlet, Pipe	1		16												
F																			
P	S-606	154+37.74	RT.	Manhole, Pipe	1					50									
F																			
P	S-607	154+90.92	RT.	Inlet, Pipe	1					54									
F																			
P	S-608	154+92.01	LT.	Inlet, Pipe	1						174								
F																			
P	S-609	156+68.61	RT.	Inlet, Pipe	1		55												
F																			
P	S-610	156+69.44	LT.	Inlet, Pipe	1						179								
F																			
P	S-611	158+50.72	LT.	FES	1														
F																			
P	S-612	158+61.81	LT.	FES	1														
F																			
P	S-613-1	158+61.24	LT.	SCEW	3														
F																			
P	S-613	158+72.92	RT.	Manhole, Culvert	3				51										
F																			
P	S-614	159+70.63	LT.	Inlet, Pipe	1			96											
F																			
P	S-615	159+71.77	LT.	Inlet, Pipe	1		137												
F																			
P	S-616	160+55.45	RT.	Inlet, Pipe	2					368									
F																			
P	S-617	161+06.61	RT.	FES, Pipe	2					106									
F																			
P	S-618	161+23.00	LT.	Inlet, Pipe	1		71												
F																			
Sheet Summary				P Total		0	346	96	51	578	353	0	0	0	0	0	0	0	0
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 33A

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2/27/2025

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS			CROSS DRAIN MITERED END SECTION		FLARED END SECTION					STRAIGHT CONC ENDWALL	SODDING
						P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME	P-7	J-7	C	D	H									
						<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'	Type I - 1 barrel	<10'	<10'	<10'	<10'	<10'	18"	24"	18"	24"	36"	42"	48"	30"	SY
F																														
P	S-604	154+15.91	RT.	Inlet, Pipe	1				1																					
F																														
P	S-605	154+91.44	LT.	Inlet, Pipe	1														1											
F																														
P	S-606	154+37.74	RT.	Manhole, Pipe	1												1													
F																														
P	S-607	154+90.92	RT.	Inlet, Pipe	1			1																						
F																														
P	S-608	154+92.01	LT.	Inlet, Pipe	1			1																						
F																														
P	S-609	156+68.61	RT.	Inlet, Pipe	1	1																								
F																														
P	S-610	156+69.44	LT.	Inlet, Pipe	1			1																						
F																														
P	S-611	158+50.72	LT.	FES	1																						1			14.00
F																														
P	S-612	158+61.81	LT.	FES	1																				1					14.00
F																														
P	S-613-1	158+61.24	LT.	SCEW	3																								1	
F																														
P	S-613	158+72.92	RT.	Manhole, Culvert	3													1												
F																														
P	S-614	159+70.63	LT.	Inlet, Pipe	1															1										
F																														
P	S-615	159+71.77	LT.	Inlet, Pipe	1	1																								
F																														
P	S-616	160+55.45	RT.	Inlet, Pipe	2														1											
F																														
P	S-617	161+06.61	RT.	FES, Pipe	2																					1				11.00
F																														
P	S-618	161+23.00	LT.	Inlet, Pipe	1	1																								
F																														
Sheet Summary				P Total		3	0	3	1	0	0	0	0	0	0	0	1	1	2	1	0	0	0	0	1	1	1	0	1	39.00
				F Total		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 33B

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2/27/2025

QUANTITY	STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC (CY)	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
F								
P	S-604	154+15.91	RT.	Inlet, Pipe	1			
F								
P	S-605	154+91.44	LT.	Inlet, Pipe	1			
F								
P	S-606	154+37.74	RT.	Manhole, Pipe	1			8" top slab required.
F								No precast cone riser required
P	S-607	154+90.92	RT.	Inlet, Pipe	1			
F								
P	S-608	154+92.01	LT.	Inlet, Pipe	1			
F								
P	S-609	156+68.61	RT.	Inlet, Pipe	1			
F								
P	S-610	156+69.44	LT.	Inlet, Pipe	1			
F								
P	S-611	158+50.72	LT.	FES	1	0.17		
F								
P	S-612	158+61.81	LT.	FES	1	0.17		
F								
P	S-613-1	158+61.24	LT.	SCEW	3	4.98		Add Headwall to Existing
F								(3) 30" Culvert
P	S-613	158+72.92	RT.	Manhole, Culvert	3			Existing Pipe Extension
F								3 concrete jackets required
P	S-614	159+70.63	LT.	Inlet, Pipe	1			
F								
P	S-615	159+71.77	LT.	Inlet, Pipe	1			
F								
P	S-616	160+55.45	RT.	Inlet, Pipe	2			
F								
P	S-617	161+06.61	RT.	FES, Pipe	2	0.11		
F								
P	S-618	161+23.00	LT.	Inlet, Pipe	1			
F								
Sheet Summary				P Total		5.43	0	
				F Total		0	0	

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2/27/2025

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 33C

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	STORM DRAIN OPTIONAL MATERIAL																
							ROUND									BOX		ELLIPTICAL					
							15"	18"	24"	30"	36"	42"	48"	54"	60"	6x3	6x4	14" x 23"	19" x 30"	22" x 34"	24" x 38"	29" x 45"	34" x 53"	43" x 68"
P		S-619	161+98.51	LT.	FES	1																	
F																							
P		S-620	162+01.66	LT.	Inlet, Pipe	1					62												
F																							
P		S-621	162+49.15	RT.	Inlet, Pipe	1		73															
F																							
P		S-622	162+76.71	LT.	Inlet, Pipe	1		72															
F																							
P		S-623	163+24.13	RT.	Inlet, Pipe	1		71															
F																							
P		S-624	164+38.36	RT.	Inlet, Pipe	1		104															
F																							
P		S-625	165+63.26	RT.	Inlet, Pipe	1		112															
F																							
P		S-626	166+97.64	RT.	Inlet, Pipe	1		14															
F																							
P		S-627	166+98.08	RT.	Inlet, Pipe	1		121															
F																							
P		S-628	169+06.42	RT.	Manhole, Pipe	1		199															
F																							
P		S-629	169+06.60	RT.	Inlet, Pipe	1		20															
F																							
P		S-630	169+44.53	RT.	Inlet, Pipe	1		35															
F																							
P		S-631	169+47.15	LT.	Inlet, Pipe	1		55															
F																							
P		S-700	171+07.09	LT.	Inlet	1																	
F																							
P		S-702	173+20.32	LT.	Inlet	1																	
F																							
P		S-703	174+50.43	LT.	Inlet	1																	
F																							
P		S-704	175+19.88	RT.	Inlet	1																	
F																							
Sheet Summary	P Total						0	876	0	0	62	0	0	0	0	0	0	0	0	0	0	0	0
	F Total						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Final Summary	P Total						321	9366	11192	1746	945	353	1240	405	179	16	140	482	1232	211	160	1785	1977	232
	F Total						0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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2/27/2025

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 34A

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CURB INLETS											MANHOLE		DITCH BOTTOM INLETS					CROSS DRAIN MITERED END SECTION	FLARED END SECTION						STRAIGHT CONC ENDWALL				SODDING
							P-3		J-3	P-4	J-4	P-5		J-5	P-6	J-6	CLOSED FLUME TYPE I 1 BARREL	P-7	J-7	C	D	H	V	A												
							<10'	>10'	<10'	<10'	<10'	<10'	>10'	<10'	<10'	<10'		<10'	<10'	<10'	<10'	<10'	<10'	<10'	18"	18"	24"	30"	36"	48"	60"	18"	30"	48"	29"x45"	SY
P		S-619	161+98.51	LT.	FES	1																							1							14.00
F																																				
P		S-620	162+01.66	LT.	Inlet, Pipe	1				1																											
F																																				
P		S-621	162+49.15	RT.	Inlet, Pipe	1				1																											
F																																				
P		S-622	162+76.71	LT.	Inlet, Pipe	1	1																														
F																																				
P		S-623	163+24.13	RT.	Inlet, Pipe	1	1																														
F																																				
P		S-624	164+38.36	RT.	Inlet, Pipe	1	1																														
F																																				
P		S-625	165+63.26	RT.	Inlet, Pipe	1	1																														
F																																				
P		S-626	166+97.64	RT.	Inlet, Pipe	1														1																	
F																																				
P		S-627	166+98.08	RT.	Inlet, Pipe	1	1																														
F																																				
P		S-628	169+06.42	RT.	Manhole, Pipe	1												1																			
F																																				
P		S-629	169+06.60	RT.	Inlet, Pipe	1														1																	
F																																				
P		S-630	169+44.53	RT.	Inlet, Pipe	1	1																														
F																																				
P		S-631	169+47.15	LT.	Inlet, Pipe	1	1																														
F																																				
P		S-700	171+07.09	LT.	Inlet	1											1																				
F																																				
P		S-702	173+20.32	LT.	Inlet	1											1																				
F																																				
P		S-703	174+50.43	LT.	Inlet	1											1																				
F																																				
P		S-704	175+19.88	RT.	Inlet	1														1																	
F																																				
Sheet Summary						P Total	7	0	0	2	0	0	0	0	0	0	3	1	0	3	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	14
						F Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Final Summary						P Total	67	0	9	11	2	57	2	17	13	4	3	36	23	34	17	1	1	1	1	3	8	1	2	0	1	1	2	1	1	197
						F Total	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 34B

0:\2017\1710782_002_Orange_Blvd_(CR_431)\Orange_Blvd_CADD\drainage\SUMDRD01.dgn
2:04:29 PM
2/27/2025

QUANTITY		STR. NO.	STATION	SIDE	DESCRIPTION	BARRELS	CLASS I CONC	BACK OF SIDEWALK DRAINAGE YARD DRAIN	REMARKS
							CY		
P		S-619	161+98.51	LT.	FES	1	0.17		
F									
P		S-620	162+01.66	LT.	Inlet, Pipe	1			
F									
P		S-621	162+49.15	RT.	Inlet, Pipe	1			
F									
P		S-622	162+76.71	LT.	Inlet, Pipe	1			
F									
P		S-623	163+24.13	RT.	Inlet, Pipe	1			
F									
P		S-624	164+38.36	RT.	Inlet, Pipe	1			
F									
P		S-625	165+63.26	RT.	Inlet, Pipe	1			
F									
P		S-626	166+97.64	RT.	Inlet, Pipe	1			
F									
P		S-627	166+98.08	RT.	Inlet, Pipe	1			
F									
P		S-628	169+06.42	RT.	Manhole, Pipe	1			
F									
P		S-629	169+06.60	RT.	Inlet, Pipe	1			
F									
P		S-630	169+44.53	RT.	Inlet, Pipe	1			
F									
P		S-631	169+47.15	LT.	Inlet, Pipe	1			
F									
P		S-700	171+07.09	LT.	Inlet	1			
F									
P		S-702	173+20.32	LT.	Inlet	1			
F									
P		S-703	174+50.43	LT.	Inlet	1			
F									
P		S-704	175+19.88	RT.	Inlet	1			Existing Pipe
F									
Sheet Summary					P Total		0.17	0	
					F Total		0	0	
Final Summary					P Total		10.61	9	
					F Total		0	0	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SUMMARY OF DRAINAGE STRUCTURES

SHEET NO. 34C

2/27/2025 2:04:55 PM 0:\2017\1710782_002_Orange_Blvd_(CR_431)\Orange_Blvd_CADD\drainage\SUMDRD01.dgn

GENERAL NOTES

1. BENCHMARK ELEVATIONS SHOWN ON THE PLANS ARE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

2. ALL SURVEY INFORMATION WAS OBTAINED FROM A LICENSED FLORIDA PROFESSIONAL SURVEYOR AND MAPPER AND UTILIZED AS SUPPOTING DATA IN THE PRODUCTION OF DESIGN PLANS AND FOR CONSTRUCTION ON SUBJECT PROJECT. THE PROFESSIONAL SURVEYOR AND MAPPER OF RECORD IS:
   TOM STEVENSON
   P.L.S. NO.: 4460
   JONES, WOOD & GENTRY, INC.
   9645 EAST COLONIAL DRIVE, SUITE 114
   ORLANDO, FL 32817

3. THE LOCATION(S) OF THE UTILITIES SHOWN IN THE PLANS (INCLUDING THOSE DESIGNATED Vv, Vh, AND Vvh) ARE BASED ON LIMITED INVESTIGATION TECHNIQUES AND SHOULD BE CONSIDERED APPROXIMATE ONLY. THE VERIFIED LOCATIONS/ELEVATIONS APPLY ONLY AT THE POINTS SHOWN. INTERPOLATIONS BETWEEN THESE POINTS HAVE NOT BEEN VERIFIED.

4. UTILITY AGENCY OWNERS:

COMPANY	CONTACT	TELEPHONE NUMBERS
AT-T	STEFAN ERIKSSON	(407) 578-8000
CHARTER COMMUNICATIONS	MARVIN USRY, JR.	(407) 532-8509
CITY OF SANFORD	RICHARD BLAKE	(407) 688-5101
CROWN CASTLE FIBER	DANNY HASKETT	(786) 610-7073
FP&L (D)	JOEL BRAY	(386) 586-6403
FP&L (T)	RALPH DIAZ	(561) 904-3617
FLORIDA PUBLIC UTILITIES	DAVID JOHNSON	(386) 668-9364
COMCAST	WADE MATHEWS	(352) 516-3824
MCI	DEAN BOYERS	(469) 886-4238
AT&T DISTRIBUTION	DINO FARRUGGIO	(561) 997-0240
SEMINOLE COUNTY	PAUL ZIMMERMAN	(407) 665-2040

5. SPECIAL EVENT DAYS FOR THIS PROJECT INCLUDE:

   TBD

6. EXISTING STORMWATER PIPES AND STRUCTURES TO BE REMOVED UNLESS OTHERWISE DIRECTED.

7. WHERE THE RECONSTRUCTION OF SIDE STREETS ENDS, A SAW CUT LINE IN THE PAVEMENT IS TO BE PROVIDED.

8. 6" SIDEWALK ARE USED AT ALL CURB RAMP RETURN LOCATIONS PER FDOT STANDARD 522-001

SURVEY CONTROL POINTS				
POINT NAME	DESCRIPTION	STATION/OFFSET		ELEVATION
AA28	5/8" I.B.C. STAMPED "JWG TRAV"	STA 11+58.93	39.52' RT	67.48
AA18	5/8" I.B.C. STAMPED "JWG TRAV"	STA 14+98.63	33.94' RT	66.45
AA17	5/8" I.B.C. STAMPED "JWG TRAV"	STA 19+66.01	7.33' RT	64.05
EA2	5/8" I.B.C. STAMPED "JWG TRAV"	STA 22+29.78	37.33' RT	66.68
AA16	5/8" I.B.C. STAMPED "JWG TRAV"	STA 26+61.12	20.96' RT	54.06
AA15	5/8" I.B.C. STAMPED "JWG TRAV"	STA 31+18.99	24.90' RT	46.65
AA14	5/8" I.B.C. STAMPED "JWG TRAV"	STA 35+90.83	28.84' RT	38.5
AA13	5/8" I.B.C. STAMPED "JWG TRAV"	STA 39+74.50	47.12' RT	37.22
AA12	5/8" I.B.C. STAMPED "JWG TRAV"	STA 44+33.59	13.94' LT	29.68
AA11	5/8" I.B.C. STAMPED "JWG TRAV"	STA 48+61.41	27.01' RT	28.8
SA1	5/8" I.B.C. STAMPED "JWG TRAV"	STA 53+39.78	34.82' LT	28.44
AA10	5/8" I.B.C. STAMPED "JWG TRAV"	STA 56+91.22	19.96' RT	27.72
LLPOL2	5/8" I.B.C. STAMPED "JWG TRAV"	STA 60+20.85	47.59' RT	27.73
AA9	5/8" I.B.C. STAMPED "JWG TRAV"	STA 63+09.92	29.98' RT	25.01
AA8	5/8" I.B.C. STAMPED "JWG TRAV"	STA 68+26.43	35.27' RT	26.58
TP9	X-CUT	STA 73+92.10	40.73' RT	27.58
AA7	5/8" I.B.C. STAMPED "JWG TRAV"	STA 77+24.05	24.95' RT	27.94
TA1	5/8" I.B.C. STAMPED "JWG TRAV"	STA 79+63.86	14.85' LT	26.16
UA3	5/8" I.B.C. STAMPED "JWG TRAV"	STA 83+21.46	69.65' RT	25.06
V5	5/8" I.B.C. STAMPED "JWG TRAV"	STA 87+15.74	7.52' LT	25.47
AA6	5/8" I.B.C. STAMPED "JWG TRAV"	STA 90+18.07	26.14' RT	24.96
SSA1	5/8" I.B.C. STAMPED "JWG TRAV"	STA 94+69.30	151.94' LT	22.31
BM9	4" X 4" C.M. WITH DISC STAMPED "JWG BENCHMARK"	STA 107+98.00	47.74' RT	25.4
AA5	NAIL AND DISC STAMPED "JWG TRAV"	STA 100+83.38	26.63' LT	24.32
AA4	5/8" I.B.C. STAMPED "JWG TRAV"	STA 106+18.06	38.14' LT	24.54
AA3	5/8" I.B.C. STAMPED "JWG TRAV"	STA 109+20.77	21.50' RT	23.81
HAA6	5/8" I.B.C. STAMPED "JWG TRAV"	STA 111+90.46	35.19' RT	24.9
AA2	5/8" I.B.C. STAMPED "JWG TRAV"	STA 115+25.59	25.56' LT	23.72
AA1	NAIL AND DISC STAMPED "LB 024 REF PT" IN WALK	STA 120+33.32	49.79' RT	24.28
PAA1	5/8" I.B.C. STAMPED "JWG TRAV" 0.1' BELOW GRADE	STA 123+47.27	22.84' LT	22.46
PAA2	5/8" I.B.C. STAMPED "JWG TRAV"	STA 126+59.95	20.43' LT	22.77
AA19	5/8" I.B.C. STAMPED "JWG TRAV"	STA 132+48.85	35.43' LT	22.48
AA20	5/8" I.B.C. STAMPED "JWG TRAV"	STA 137+99.16	27.06' LT	18.69
LAA2	5/8" I.B.C. STAMPED "JWG TRAV"	STA 142+90.30	21.92' RT	13.16
AA21	5/8" I.B.C. STAMPED "JWG TRAV"	STA 145+82.18	58.38' LT	10.79
QAA4	5/8" I.B.C. STAMPED "JWG TRAV"	STA 148+22.69	7.49' RT	9.86
QAA5	5/8" I.B.C. STAMPED "JWG TRAV"	STA 151+81.72	43.26' RT	9.89
AA22	5/8" I.B.C. STAMPED "JWG TRAV"	STA 154+32.60	30.53' LT	8.71
IIAA4	5/8" I.B.C. STAMPED "JWG TRAV"	STA 157+73.93	32.61' RT	11.07
AA23	5/8" I.B.C. STAMPED "JWG TRAV"	STA 162+07.25	26.13' RT	11.53
AA24	5/8" I.B.C. STAMPED "JWG TRAV"	STA 165+90.96	71.35' LT	11.17
HAA1	5/8" I.B.C. STAMPED "JWG TRAV"	STA 168+90.35	33.45' LT	11.73
HAA2	5/8" I.B.C. STAMPED "JWG TRAV"	STA 172+02.47	37.52' LT	10.66

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

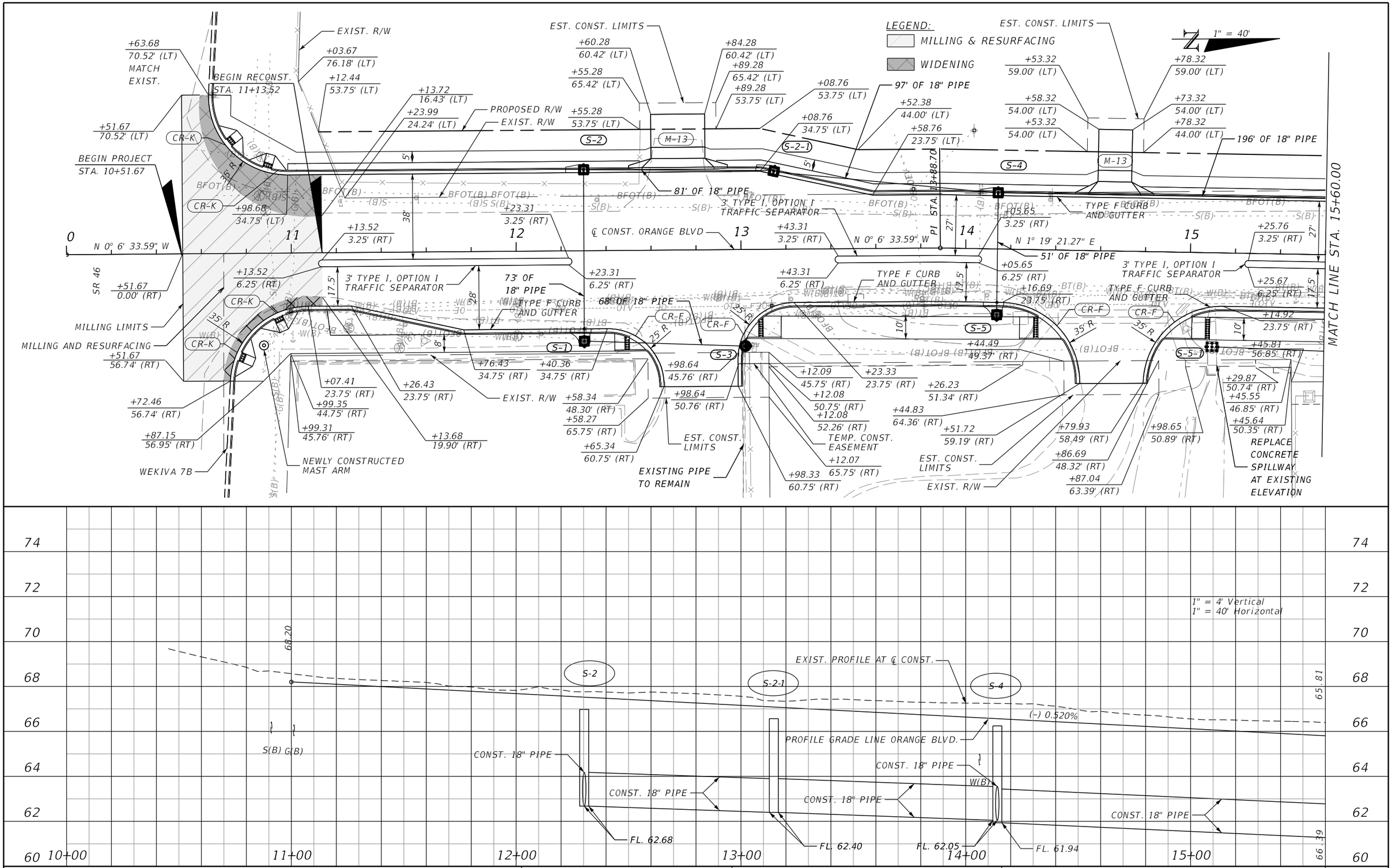
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

GENERAL NOTES/
SURVEY CONTROL

SHEET NO. 35

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REVISIONS			
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LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 36

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

$USER$ $DATE$ $TIME$ $MODELNAME$ $FILE$

1" = 40'

MATCH LINE STA. 15+60.00

MATCH LINE STA. 21+20.00

PROPOSED R/W

+94.00
44.00' (LT)

+06.00
44.00' (LT)

TYPE F CURB AND GUTTER

207' OF 24" PIPE

EXIST. R/W

+81.51
44.00' (LT)

+07.00
44.00' (LT)

272' OF 24" PIPE

+36.15
45.02' (LT)

+36.13
44.00' (LT)

+36.01
37.02' (LT)

277' OF 24" PIPE

EXIST. R/W

S-6 | M-13 | S-10 | M-13 | S-12

51' OF 18" PIPE

16 | 17 | 18 | 19 | 20 | 21

+69.42
1.70' (RT)

+19.49
7.75' (LT)

TYPE E CURB AND GUTTER

+41.78
7.75' (LT)

+65.72
5.64' (RT)

+29.01
3.25' (RT)

TYPE F CURB AND GUTTER

50' OF 18" PIPE

+74.01
1.75' (RT)

51' OF 18" PIPE

50' R

PI STA. 19+05.89

N 1° 19' 21.27" E

N 0° 10' 38.73" W

27'

16'

3' TYPE I, OPTION I TRAFFIC SEPARATOR

+69.37
7.75' (RT)

TYPE F CURB AND GUTTER

℄ CONST. ORANGE BLVD

+26.74
23.75' (RT)

+63.34
7.75' (RT)

+29.01
6.25' (RT)

3' TYPE I, OPTION I TRAFFIC SEPARATOR

TYPE F CURB AND GUTTER

TYPE E CURB AND GUTTER

17.5'

17.5'

10'

10'

S-7 | S-8 | S-9 | S-13

11' OF 18" PIPE

100' OF 18" PIPE

35' R

35' R

CR-H

CR-H

6' R

WESTLAKE LN

EXIST. R/W

+49.81
62.83' (RT)

+61.73
57.88' (RT)

+80.42
54.39' (RT)

+80.51
57.85' (RT)

TYPE E CURB AND GUTTER

+05.89
58.42' (RT)

+14.66
63.72' (RT)

+92.10
54.11' (RT)

+92.20
58.11' (RT)

EST. CONST. LIMITS

+39.74
23.75' (RT)

BEGIN SCHEME 1
GRAVITY WALL
PER FDOT 400-011 INDEX
STA. 20+48.56
38.75' (RT)

EXIST. R/W

+86.06
48.04' (RT)

+86.06
52.41' (RT)

EST. CONST. LIMITS

EXIST. PROFILE AT ℄ CONST.

S-10

1" = 4' Vertical
1" = 40' Horizontal

PI +50.00
EL. 64.25

65.81

62.95

(-) 0.520%

(-) 0.300%

(-) 0.300%

(-) 1.500%

S-6

S-12

PI +00.00
EL. 65.60

PROFILE GRADE LINE ORANGE BLVD.

CONST. 18" PIPE

CONST. 18" PIPE

CONST. 24" PIPE

CONST. 24" PIPE

CONST. 18" PIPE

CONST. 18" PIPE

FL. 61.04

FL. 60.94

FL. 60.54

FL. 60.31

FL. 59.91

FL. 58.14

FL. 58.04

66.39

+50.00 EL. 64.85

64.82 | 64.75 | 64.66 | 64.57 | 64.46 | 64.34 | 64.21 | 64.06 | 63.91 | 63.74 | 63.56 | 63.37 | 63.16 | 62.95

K=333
400' V.C.

62.59

66 | 64 | 62 | 60 | 58 | 56 | 54 | 52

16+00 | 17+00 | 18+00 | 19+00 | 20+00 | 21+00

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

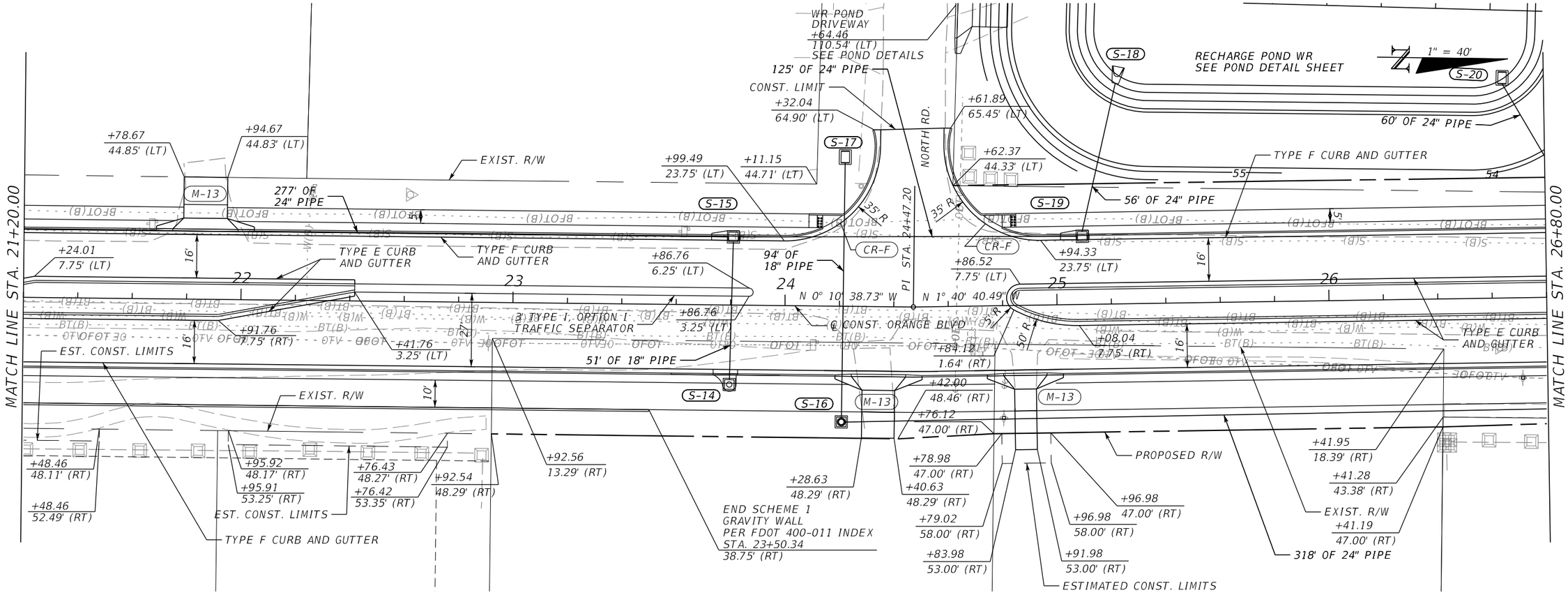
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

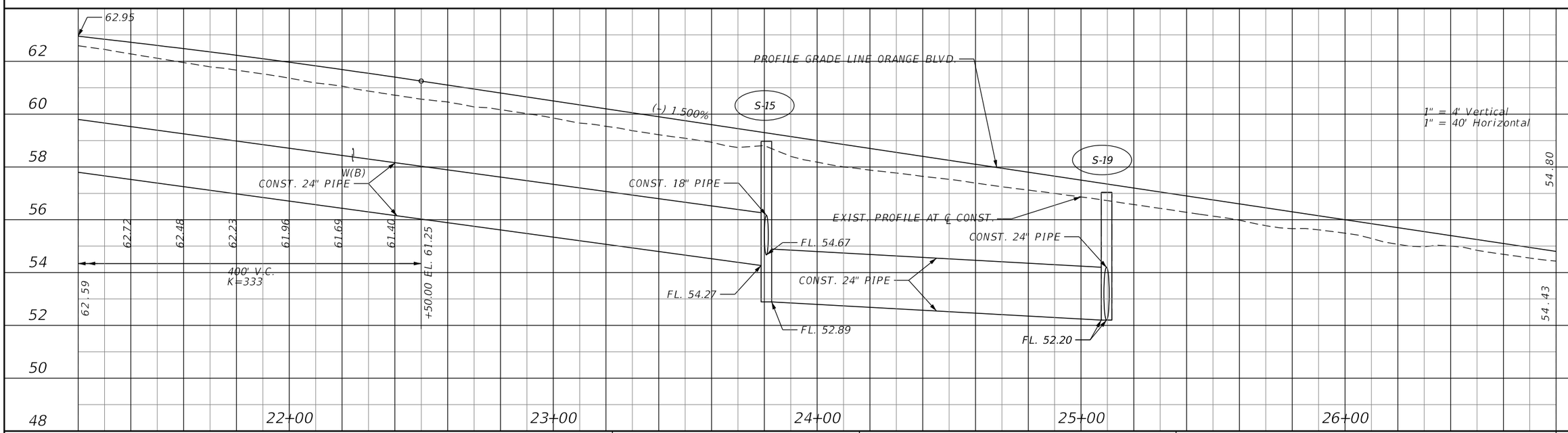
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 37





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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

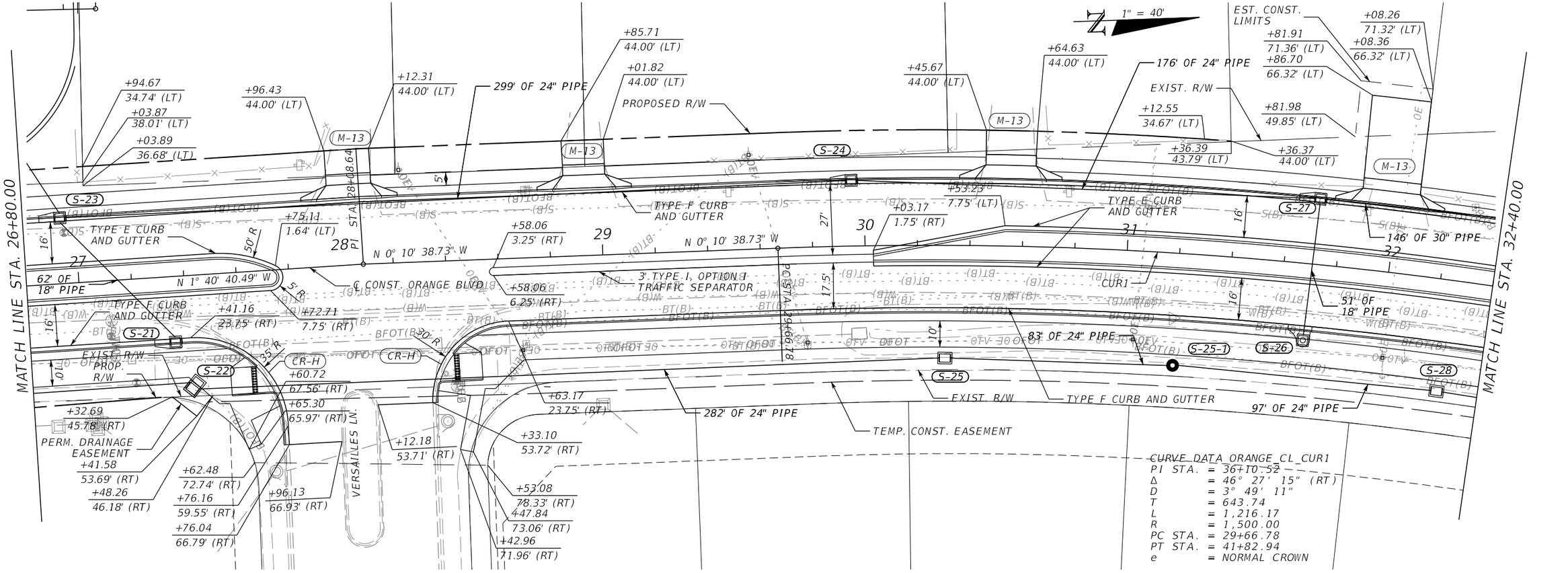
SEMINOLE COUNTY PUBLIC WORKS

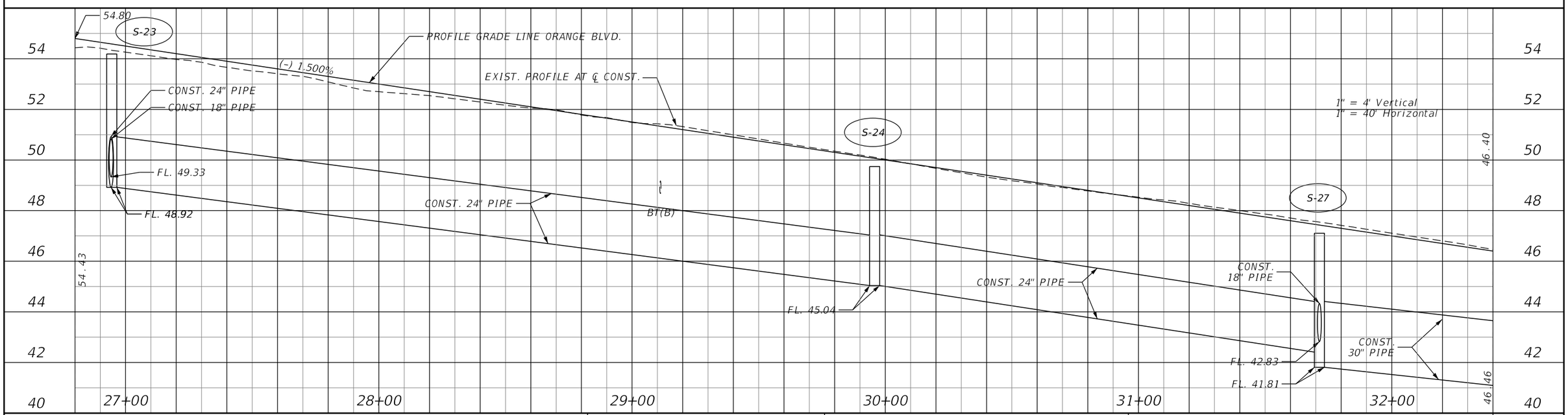
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 38

$USER$ $DATE$ $TIME$ $MODELNAME$ $FILE$





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

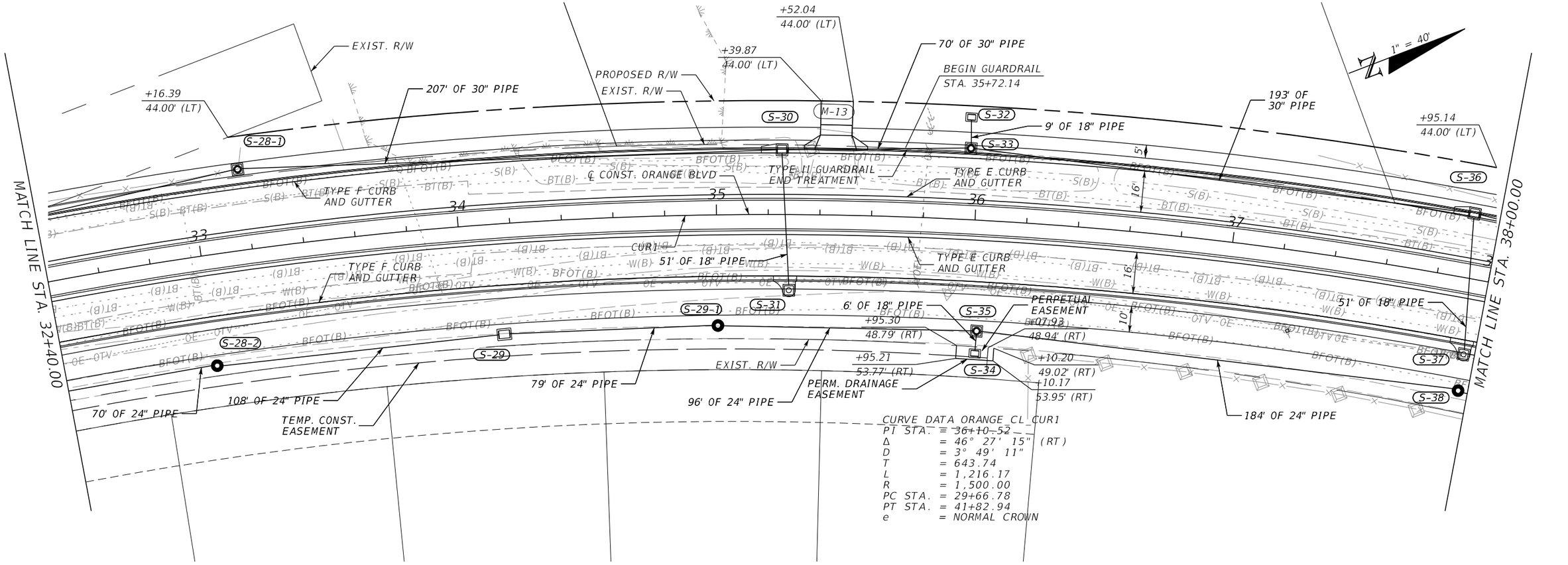
SEMINOLE COUNTY PUBLIC WORKS

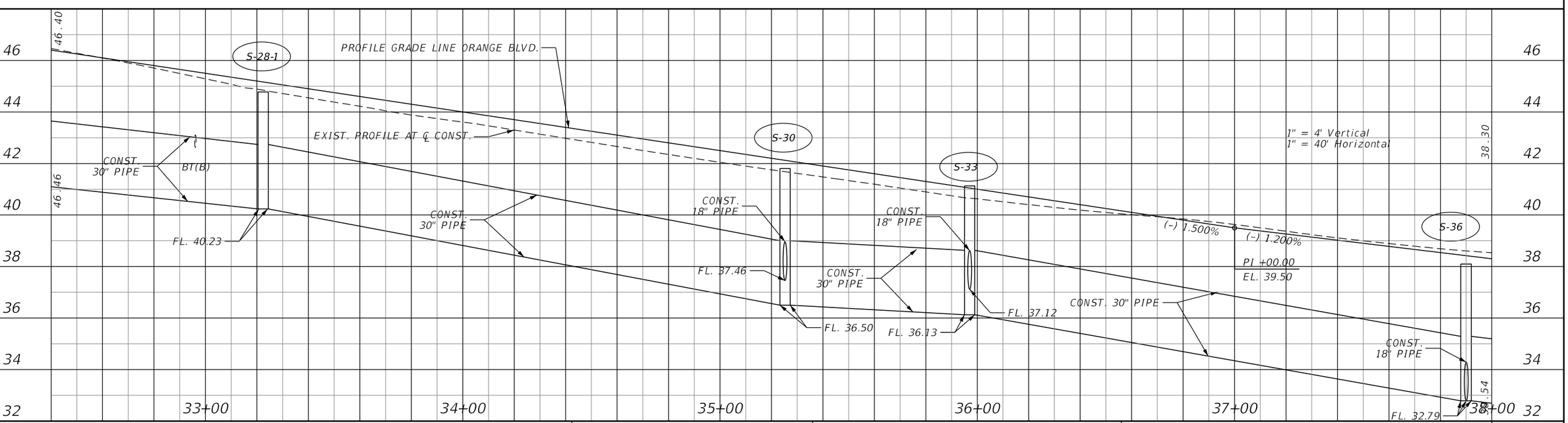
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 39

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





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 40

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

MATCH LINE STA. 38+00.00

MATCH LINE STA. 43+60.00

END GUARDRAIL
STA. 38+48.57
+07.25
44.00' (LT)

+61.49
44.00' (LT)

+73.56
44.00' (LT)

BEGIN GUARDRAIL
STA. 38+90.66

END GUARDRAIL
STA. 40+31.92

GRADE WELLA COURT DITCH TO DRAIN TO S-39.

13' OF 18" PIPE

208' OF 30" PIPE

+48.95
54.43' (LT)

+39.50
57.13' (LT)

+46.36
44.00' (LT)

+43.57
59.43' (LT)

+69.68
54.42' (LT)

+72.61
59.42' (LT)

+81.17
44.00' (LT)

+77.28
39.10' (LT)

+97.39
44.00' (LT)

WELLA CT.

62' R

20' R

25' R

PROPOSED R/W

EXIST. R/W

TYPE F CURB AND GUTTER

PT STA. 41+82.94

M-13

S-39

S-40

S-41

S-42

S-42-1

S-43

S-44

S-45

S-46

CR-F

CR-F

5'

27'

3 TYPE I, OPTION I TRAFFIC SEPARATOR

53' OF 18" PIPE

267' OF 36" PIPE

+34.42
23.75' (LT)

+26.94
3.25' (LT)

+99.69
23.75' (LT)

+12.88
3.25' (RT)

℄ CONST. ORANGE BLVD

+26.94
6.25' (LT)

+12.88
6.25' (RT)

TYPE F CURB AND GUTTER

TYPE E CURB AND GUTTER

+00.19
1.72' (LT)

+50.14
7.75' (RT)

DROP CURB

102' R

88' R

88' R

102' R

100' R

100' R

100' R

7' OF 18" PIPE

3 TYPE I, OPTION I TRAFFIC SEPARATOR

+11.15
48.87' (RT)

+11.15
58.95' (RT)

+43.47
38.75' (RT)

+04.10
45.82' (RT)

+92.33
49.21' (RT)

+82.69
59.39' (RT)

+69.62
52.00' (RT)

+34.87
45.82' (RT)

+95.51
38.75' (RT)

EXIST. R/W

136' OF 24" PIPE

175' OF 24" PIPE

EXISTING STRUCTURE TO REMAIN

EXISTING PIPE TO REMAIN

6' OF 18" PIPE

79' OF 34"x53" PIPE

47' OF 18" PIPE

+88.60
7.75' (LT)

+38.74
1.72' (RT)

N 46° 16' 36.42" E

TYPE E CURB AND GUTTER

+46.15
48.23' (RT)

371' OF 24" PIPE

EXIST. R/W

+41.15
53.95' (RT)

+46.15
58.95' (RT)

+16.15
53.95' (RT)

1" = 40'

39 40 41 42 43

CURVE DATA ORANGE_CL_CUR1
PI STA. = 36+10.52
Δ = 46° 27' 15" (RT)
D = 3° 49' 11"
T = 643.74
L = 1,216.17
R = 1,500.00
PC STA. = 29+66.78
PT STA. = 41+82.94
e = NORMAL CROWN

PROFILE GRADE LINE ORANGE BLVD.

(-) 1.200%

EXIST. PROFILE AT ℄ CONST.

1" = 4' Vertical
1" = 40' Horizontal

CONST. 30" PIPE

CONST. 18" PIPE

FL. 31.40

FL. 30.90

FL. 30.30

FL. 29.10

CONST. 36" PIPE

CONST. 18" PIPE

FL. 28.13

CONST 34" X 53" PIPE

FL. 28.07

FL. 25.21

FL. 25.90

FL. 25.60

FL. 24.00

38.30

38.54

31.58

31.83

38+00 39+00 40+00 41+00 42+00 43+00

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

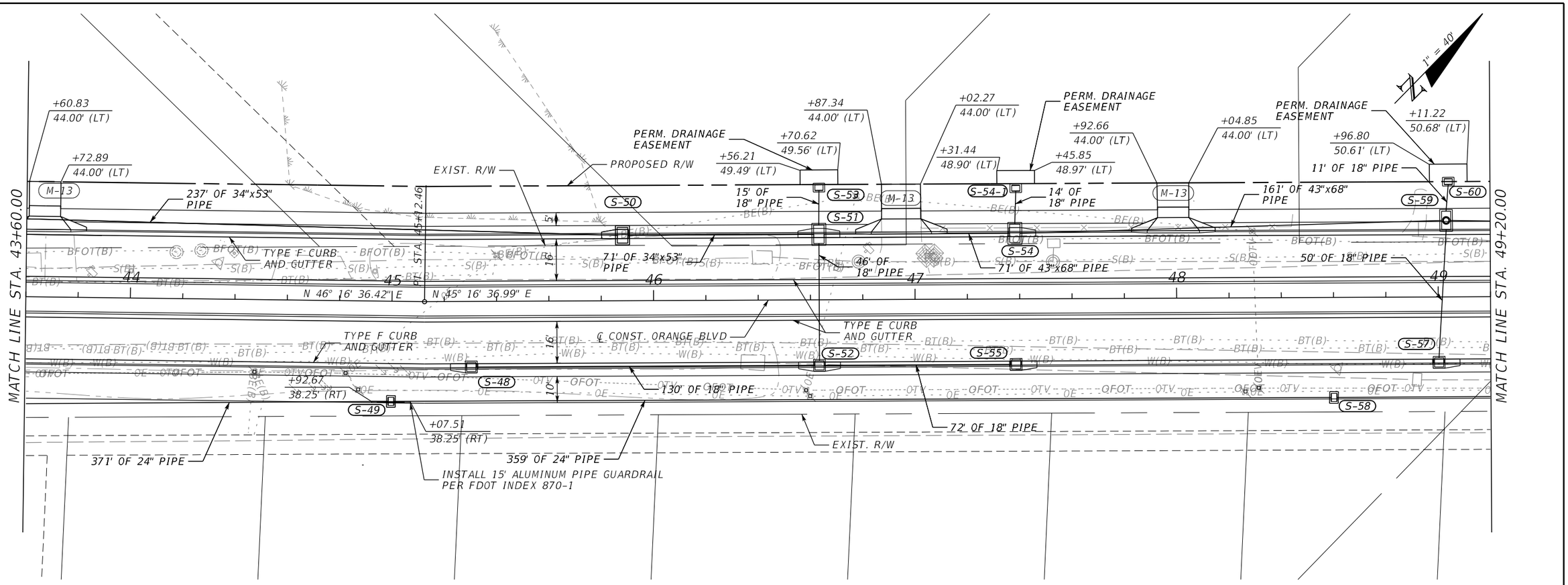
JASON R. FLICK, P.E.
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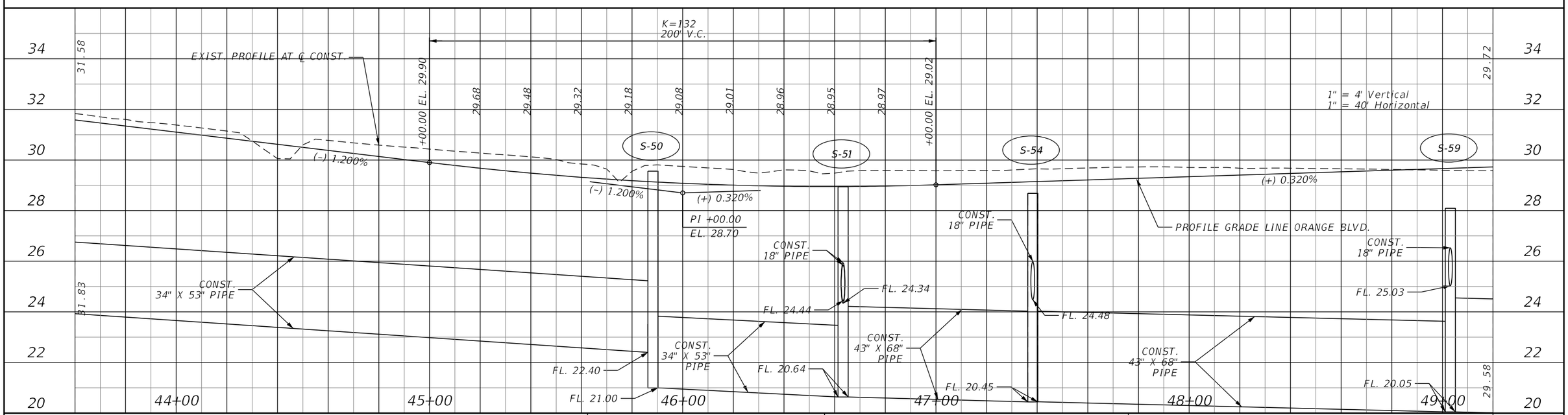
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 41





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

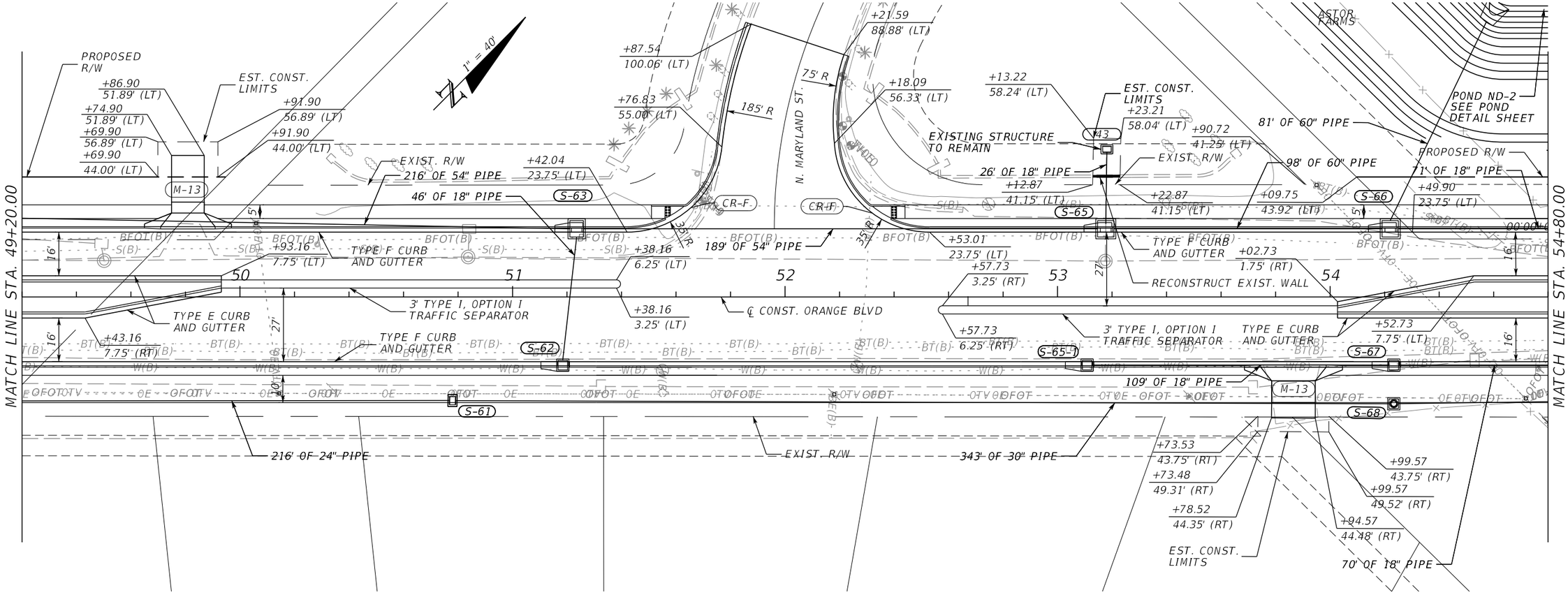
SEMINOLE COUNTY PUBLIC WORKS

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CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 42

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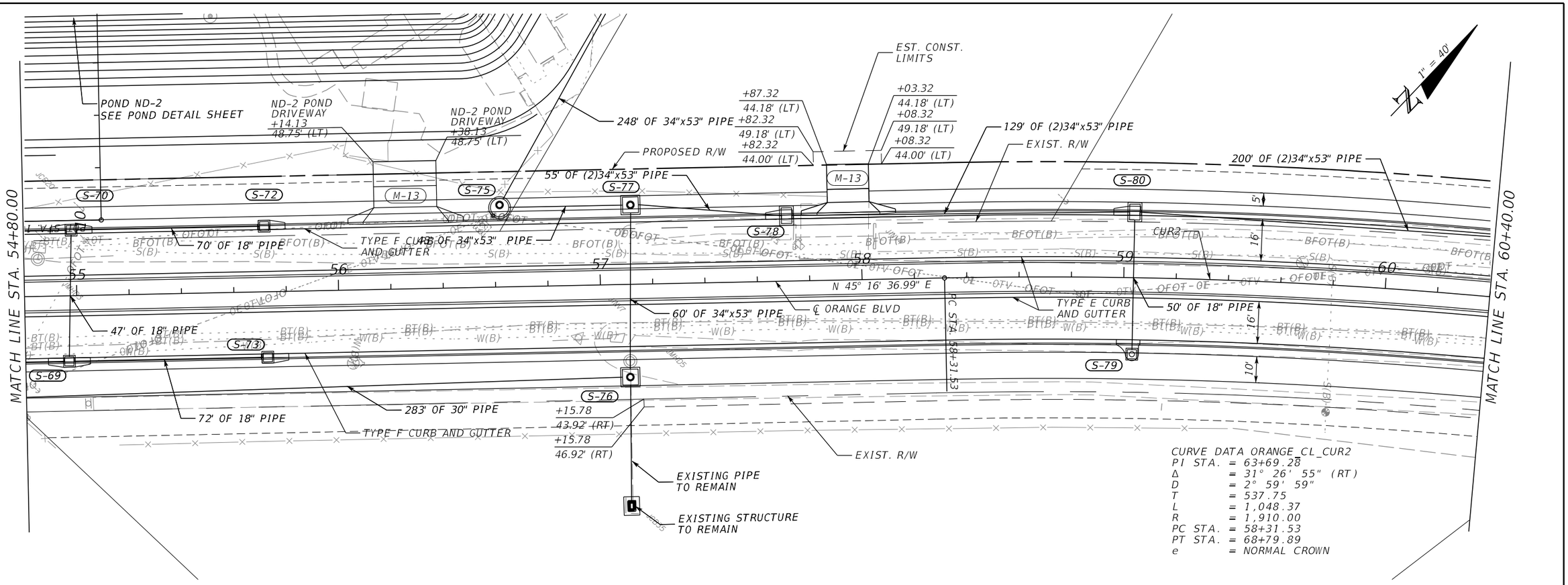
SEMINOLE COUNTY PUBLIC WORKS

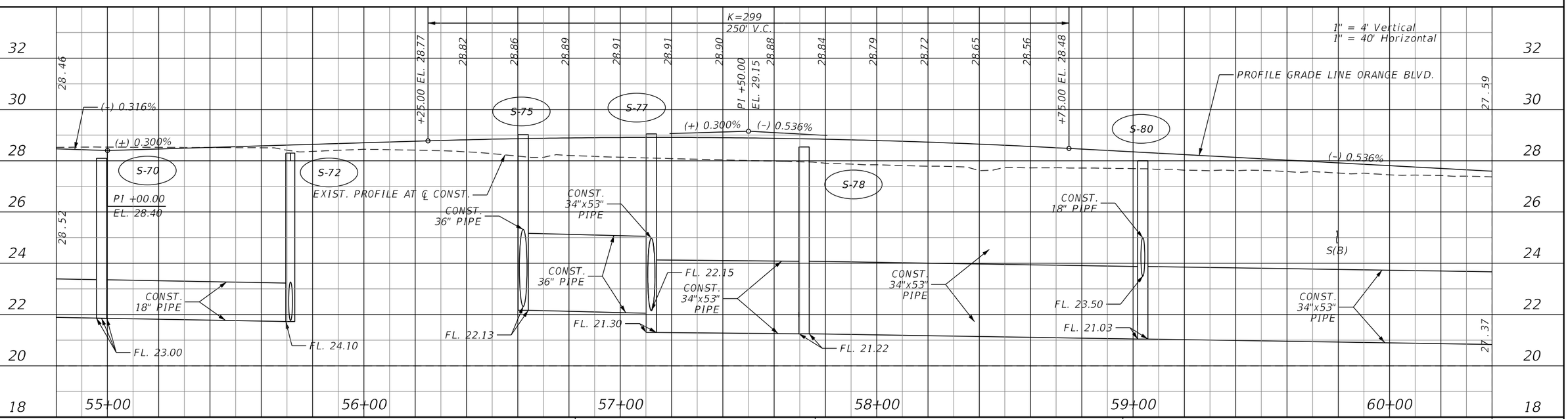
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CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 43

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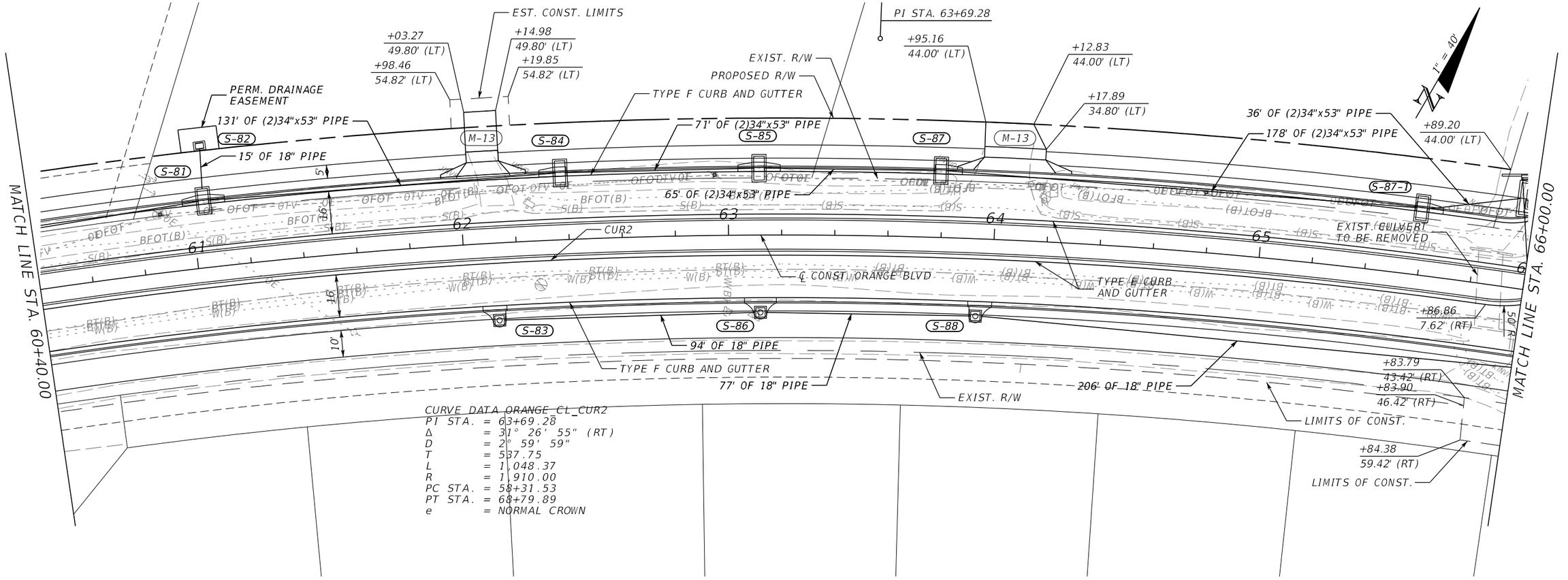
SEMINOLE COUNTY PUBLIC WORKS

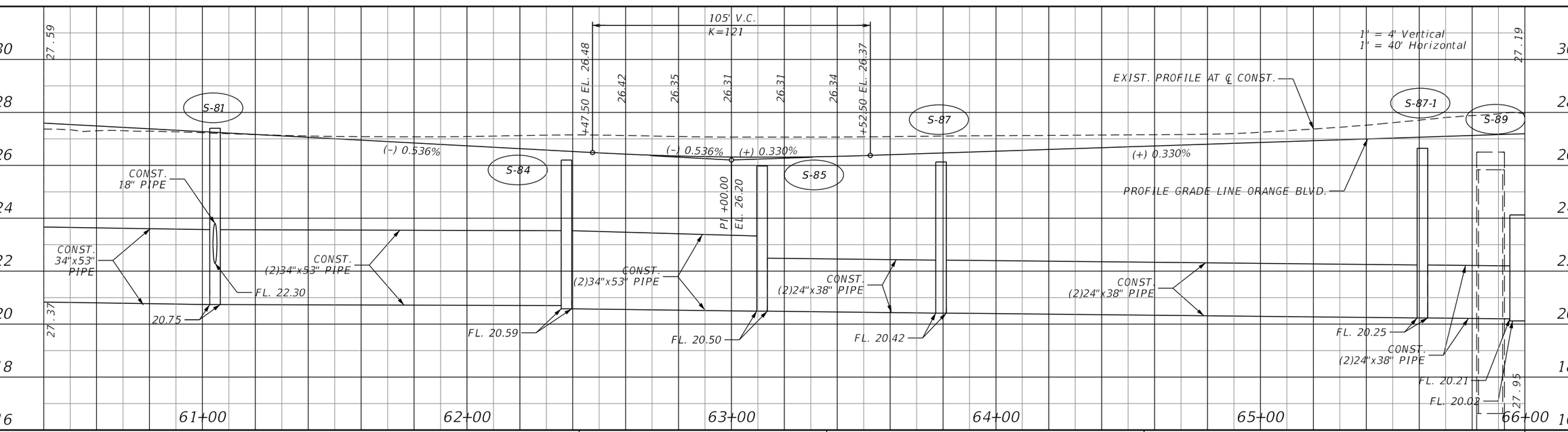
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 44

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LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
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ROADWAY PLAN & PROFILE

SHEET NO. 45

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DELAWARE ST.

+23.97
72.81' (LT)
+38.07
70.90' (LT)
+37.10
62.95' (LT)
+40.07
56.34' (LT)
+48.61
46.42' (LT)
+21.32
53.86' (LT)
+08.02
7.87' (LT)
+35.71
21.42' (LT)
+10.46
1.51' (RT)
+82.03
7.85' (LT)
+70.78
23.85' (LT)
+79.65
1.53' (RT)
+03.48
7.66' (RT)
+17.80
7.75' (RT)
+67.80
7.75' (LT)
+67.80
1.75' (LT)

MATCH LINE STA. 66+00.00

MATCH LINE STA. 71+60.00

S-90 S-91 S-91-1 S-92 S-93 S-94 S-95 S-96 S-97

CR-F CR-F

35' R 35' R 5' R 5' R 50' R 50' R 40' R

TYPE F CURB AND GUTTER

70' OF (2)6'x4' BOX CULVERTS

79' OF 29"x45" PIPE

TYPE E CURB AND GUTTER

196' OF 24" PIPE

135' OF 29"x45" PIPE

PROPOSED R/W

TYPE F CURB AND GUTTER

EXIST. R/W

CUR2

EXIST. R/W

TYPE F CURB AND GUTTER

242' OF 24" PIPE

EXISTING MISCELLANEOUS DRAINAGE PIPE CONNECTION FROM PARCEL 128 TO BE RELOCATED AND TIED DIRECTLY TO CURB INLET S-96.

TYPE E CURB AND GUTTER

℄ CONST. ORANGE BLVD

N 76° 43' 32.44" E

PT STA. 68+79.89

EXISTING PIPE TO REMAIN

EXISTING STRUCTURE TO REMAIN

EXISTING PIPE TO REMAIN

HOLE TO BE PLUGGED FROM PIPE REMOVAL

72' OF 24" PIPE

72' OF 18" PIPE

3' TYPE I, OPTION I TRAFFIC SEPARATOR

51' OF 18" PIPE

71' OF 18" PIPE

72' OF 18" PIPE

5' 16' 10' 16' 27'

1" = 40'

N

CURVE DATA ORANGE_CL_CUR2
PT STA. = 63+69.28
Δ = 31° 26' 55" (RT)
D = 2° 59' 59"
T = 537.75
L = 1,048.37
R = 1,910.00
PC STA. = 58+31.53
PT STA. = 68+79.89
e = NORMAL CROWN

67 68 69 70 71

1" = 4' Vertical
1" = 40' Horizontal

27.19 27.95 26.38 26.58

30 28 26 24 22 20 18 16

PI +00.00
EL. 27.52

(+) 0.330% (−) 0.300%

S-92

BT(B) BFOT(B)

CONST. 24" PIPE

FL. 20.41

FL. 20.02

FL. 20.65

CONST. 24" PIPE

EXIST. PROFILE AT ℄ CONST

PROFILE GRADE LINE ORANGE BLVD.

S-94 S-96

(−) 0.300% (+) 0.300%

PI +20.00
EL. 26.26

CONST. 18" PIPE

CONST. 24" PIPE

CONST. 18" PIPE

FL. 21.55

FL. 20.92 FL. 20.92

FL. 21.25

FL. 21.34

66+00 67+00 68+00 69+00 70+00 71+00

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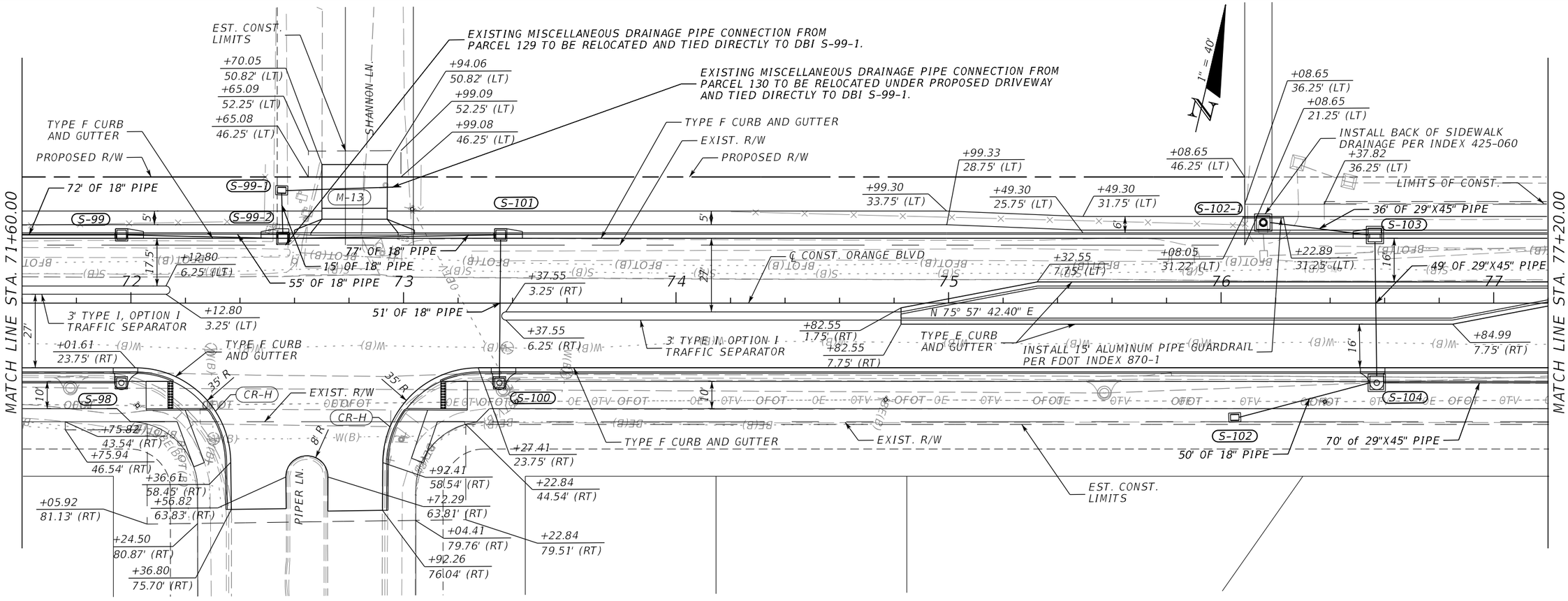
SEMINOLE COUNTY PUBLIC WORKS

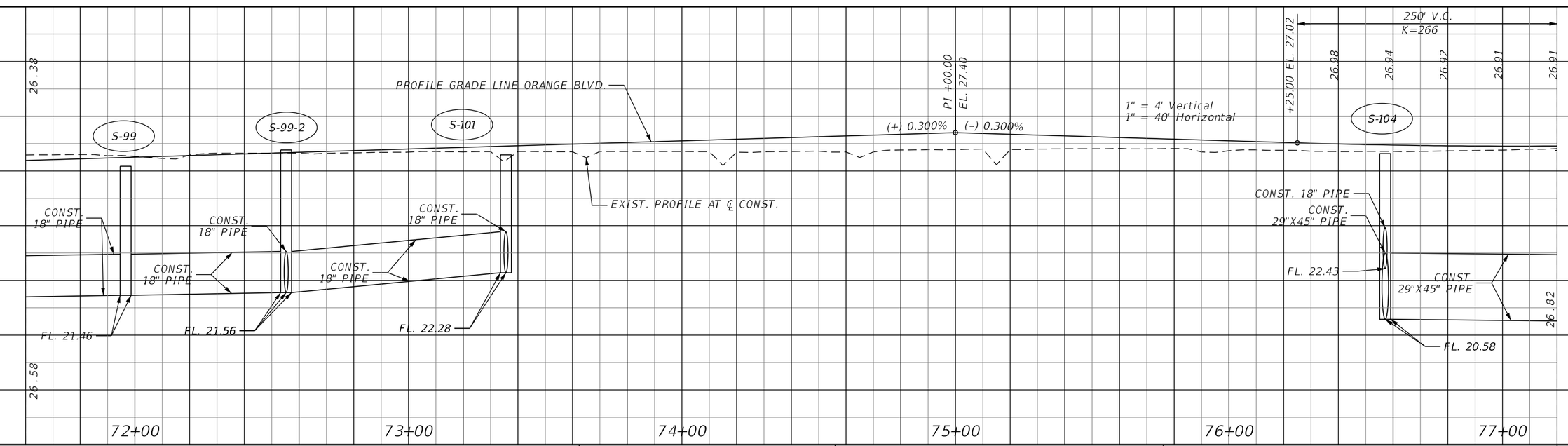
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 46

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





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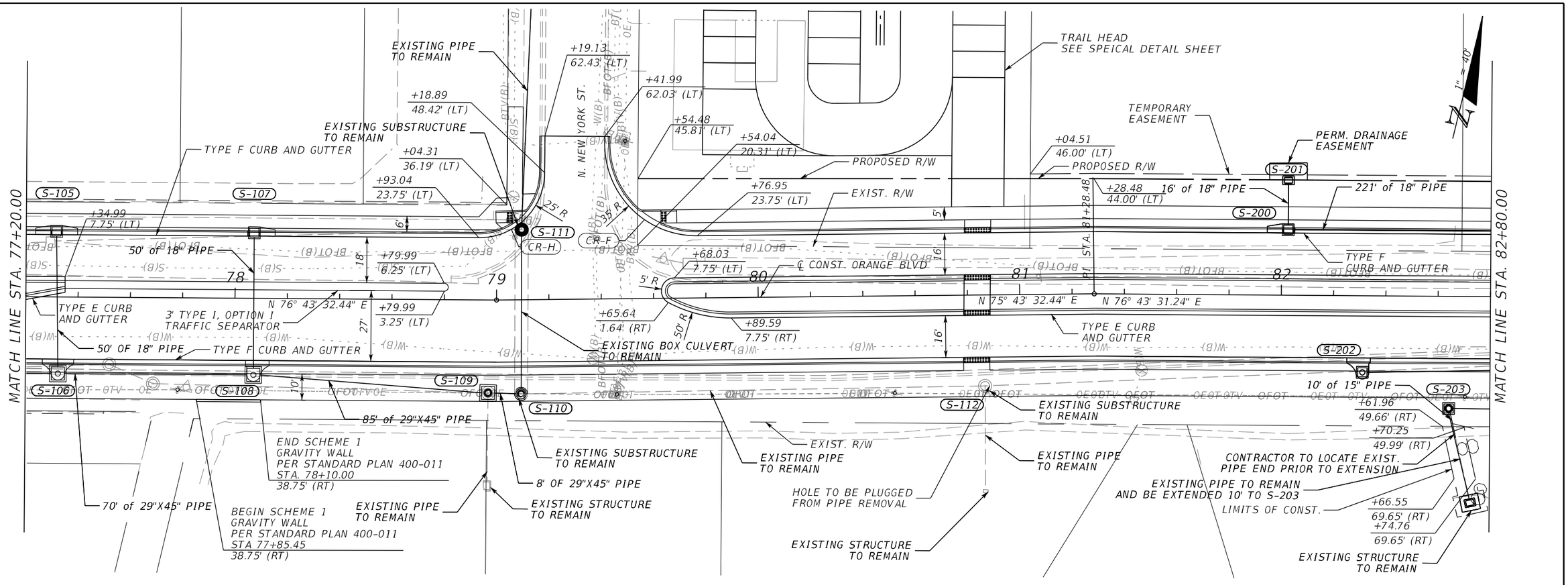
SEMINOLE COUNTY PUBLIC WORKS

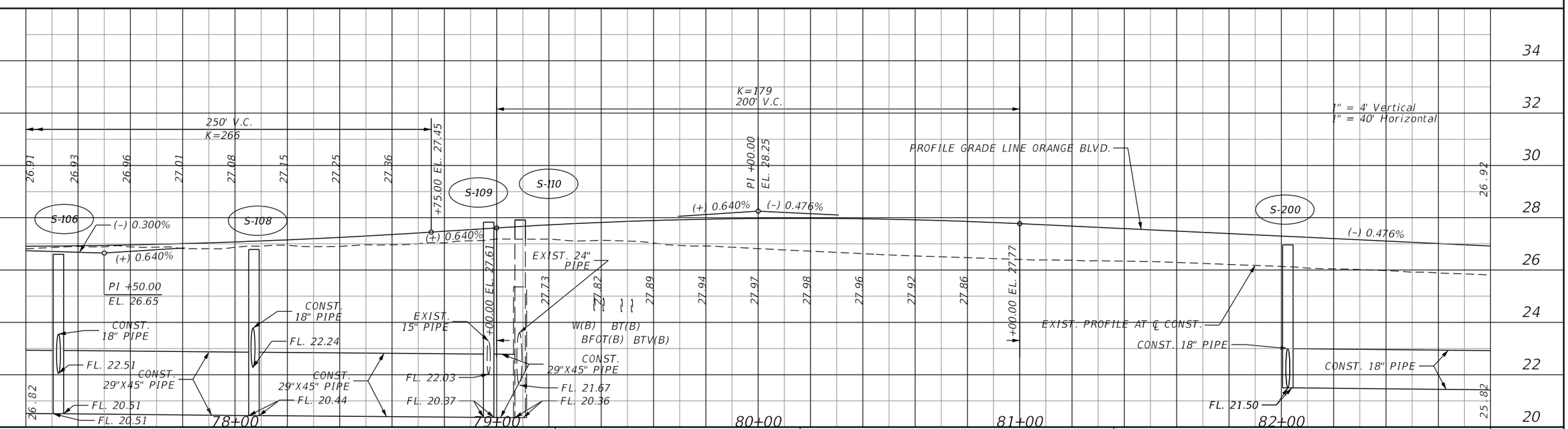
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

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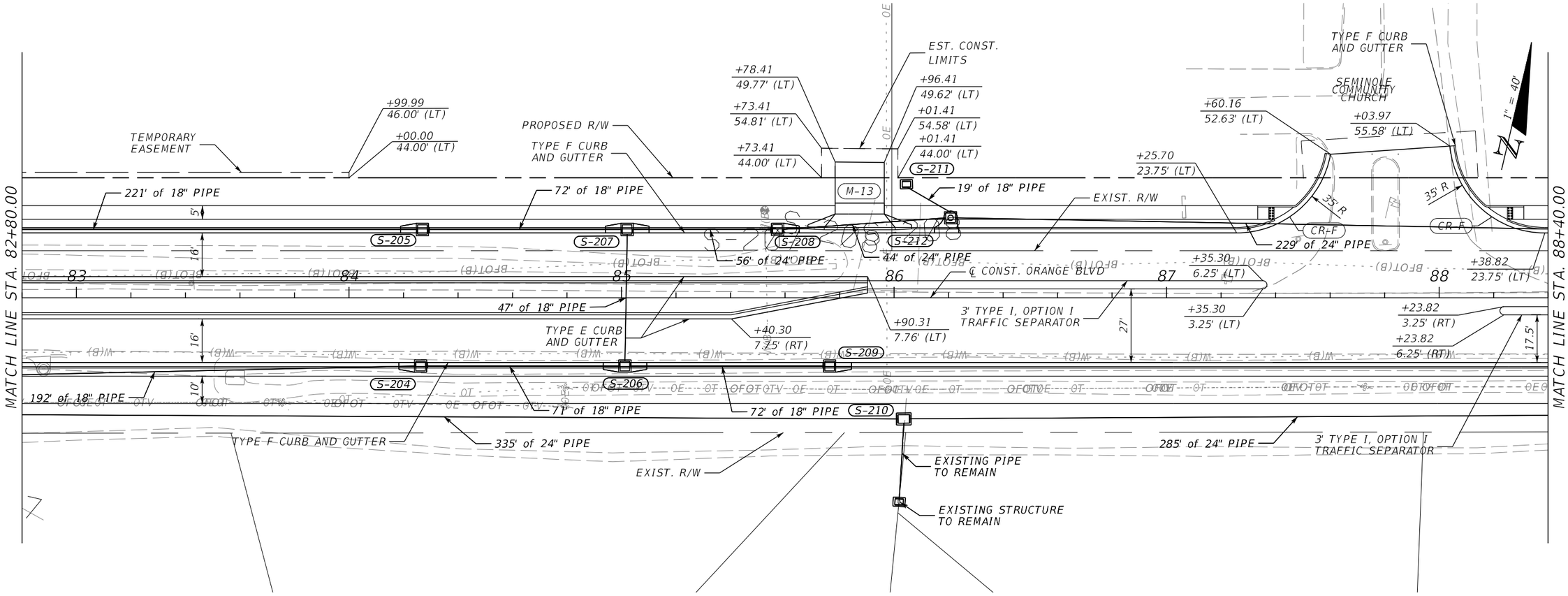
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 48

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LAKE MARY, FL 32746
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 49

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MATCH LINE STA. 88+40.00

MATCH LINE STA. 94+00.00

EST. CONST. LIMITS

+68.44 48.40' (LT)
+63.45 44.00' (LT)
+63.45 53.41' (LT)
+80.44 48.40' (LT)
+85.45 53.41' (LT)
+85.45 44.00' (LT)
+29.38 49.32' LT.
+29.38 44.00' LT.
+32.11 44.31' (LT)
+42.03 44.28' (LT)
+47.03 49.26' (LT)
+47.03 44.00' (LT)
+47.03 34.76' LT.

M-13 S-213 S-214 S-215 S-216 S-217 S-218 S-219 S-220 S-221 S-222 S-223 S-225 S-226 S-227

168' of 24" PIPE
68' of 18" PIPE
358' of 24" PIPE
72' of 18" PIPE
51' of 18" PIPE
15' of 18" PIPE
72' of 24" PIPE
56' of 30" PIPE
43' of 29"x45" PIPE
84' of 29"x45" PIPE
156' of (2)19"x30" PIPE
72' of 30" PIPE
4' of 18" PIPE

EXIST. R/W
PERM. DRAINAGE EASEMENT
PROPOSED R/W
BETTY ANNE WAY (FUTURE)
PROP. R/W
EST. CONST. LIMITS
EXIST. R/W
PERM. DRAINAGE EASEMENT

POND OC2-2 SEE POND DETAIL SHEET
OC2-2 POND DRIVEWAY +92.19 47.21' (LT)

+74.59 44.00' (LT)
+44.59 44.00' (LT)
+68.83 6.26' (LT)
+68.83 3.26' (LT)
+82.38 6.26' (LT)
+82.38 3.26' (LT)
+42.50 7.76' (LT)
+40.37 4.88' (RT)
+57.29 7.75' (RT)
+18.83 3.24' (RT)
+01.25 47.74' (RT)
+13.30 47.74' (RT)
+24.14 33.82' (RT)
+20.64 48.82' (RT)
+41.95 48.72' (RT)
+41.95 59.05' (RT)
+46.95 48.72' (RT)
+66.56 48.70' (RT)
+65.46 59.05' (RT)
+61.56 48.71' (RT)

89 90 91 92 93 94

27' 17.5' 27' 10' 6.5' R 11.5' R

3' TYPE I, OPTION I TRAFFIC SEPARATOR
TYPE F CURB AND GUTTER
℄ CONST. ORANGE BLVD
TYPE F CURB AND GUTTER
TYPE F CURB AND GUTTER
TYPE E CURB AND GUTTER
EXISTING PIPE TO REMAIN
EXISTING STRUCTURE TO REMAIN
CR-F CR-F

1" = 40'

N

1" = 4' Vertical
1" = 40' Horizontal

PROFILE GRADE LINE ORANGE BLVD.
EXIST. PROFILE AT ℄ CONST.

PI +50.00 EL. 25.62
PI +00.00 EL. 24.87

(-) 0.500% (+) 0.300% (+) 0.300% (-) 0.300%

S-213 S-216 S-218 S-220 S-227

CONST. 18" PIPE
CONST. 24" PIPE
CONST. 18" PIPE
CONST. 24" PIPE
CONST. 30" PIPE
CONST. 30" PIPE
CONST. 30" PIPE
CONST. (2) 19"x30" PIPE

FL. 20.45
FL. 20.73
FL. 20.23
FL. 19.85
FL. 20.25
FL. 19.25
FL. 19.18
FL. 17.56
FL. 19.70
FL. 17.10
FL. 17.10

26.17 25.51 25.47 25.10

30 28 26 24 22 20 18 16

89+00 90+00 91+00 92+00 93+00 94+00

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JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
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CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 50

$USER$ $DATE$ $TIME$ $MODELNAME$ $FILE$

POND OC2-2
SEE POND DETAIL SHEET

+80.26
44.00' (LT)

+64.26
44.00' (LT)

+17.92
44.00' (LT)

+39.92
44.00' (LT)

EST. CONST. LIMITS

+27.13
46.55' (LT)
+22.14
51.55' (LT)
+22.14
44.00' (LT)

+49.13
46.55' (LT)
+54.14
51.55' (LT)
+54.14
44.00' (LT)

1" = 40'

EST. CONST. LIMITS

+06.03
47.71' (LT)
+90.03
47.71' (LT)
+85.04
52.71' (LT)
+85.04
44.00' (LT)

+11.04
52.71' (LT)
+11.04
44.00' (LT)
+18.07
44.00' (LT)
+18.07
42.25' (LT)

OC2-2 POND DRIVEWAY
+16.19
47.22' (LT)

69' of 24" PIPE

PROPOSED R/W

TYPE F CURB AND GUTTER

5'

16'

EXIST. R/W

70' of 24" PIPE

S-231

M-13

S-233

M-13

71' of 24" PIPE

S-236

M-13

325' of 24" PIPE

M-13

EXIST. R/W

+83.65
7.75' (LT)

+20.00
17.25' (LT)

17.5'

MATCH LINE STA. 94+00.00

MATCH LINE STA. 99+60.00

4 95 96 97 98 99

47' of 18" PIPE

℄ CONST. ORANGE BLVD

TYPE E CURB AND GUTTER

16'

+33.64
7.75' (RT)

+83.65
1.75' (LT)

3' TYPE I, OPTION I TRAFFIC SEPARATOR

27'

S-232

S-234

S-237

16'

10'

55' of 18" PIPE

71' of 18" PIPE

S-235

S-238

296' of 29"x45" PIPE

TYPE F CURB AND GUTTER

EXIST. R/W

150' of 29"x45" PIPE

258' of 24" PIPE

EXISTING PIPE TO REMAIN

EXISTING STRUCTURE TO REMAIN

1" = 4' Vertical
1" = 40' Horizontal

EXIST. PROFILE AT ℄ CONST.

PI +50.00
EL. 25.62

25.47

25.29

S-231

S-233

S-236

(+) 0.300%

(-) 0.300%

(-) 0.300%

(+) 0.300%

PI +00.00
EL. 24.87

PROFILE GRADE LINE ORANGE BLVD.

CONST. 18" PIPE

CONST. 24" PIPE

CONST. 24" PIPE

CONST. 24" PIPE

CONST. 24" PIPE

25.10

25.18

FL. 20.25

FL. 18.84

FL. 19.00

FL. 19.10

30 28 26 24 22 20 18 16

94+00 95+00 96+00 97+00 98+00 99+00

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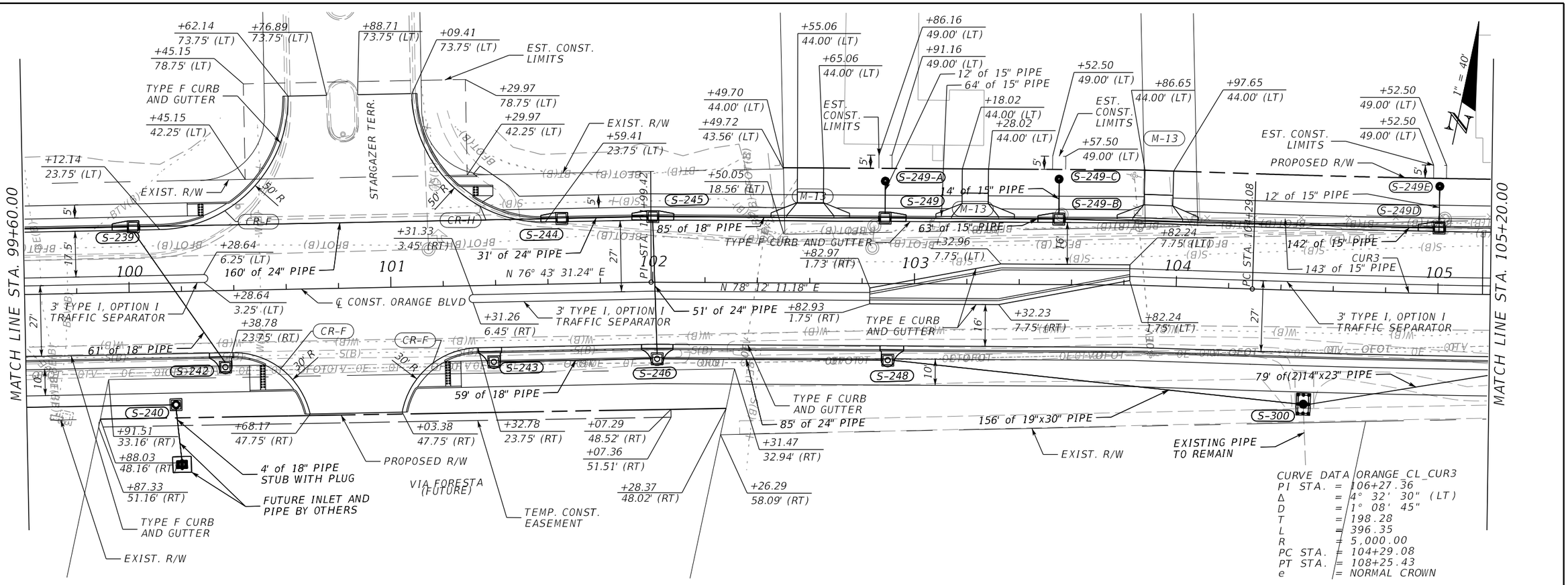
SEMINOLE COUNTY PUBLIC WORKS

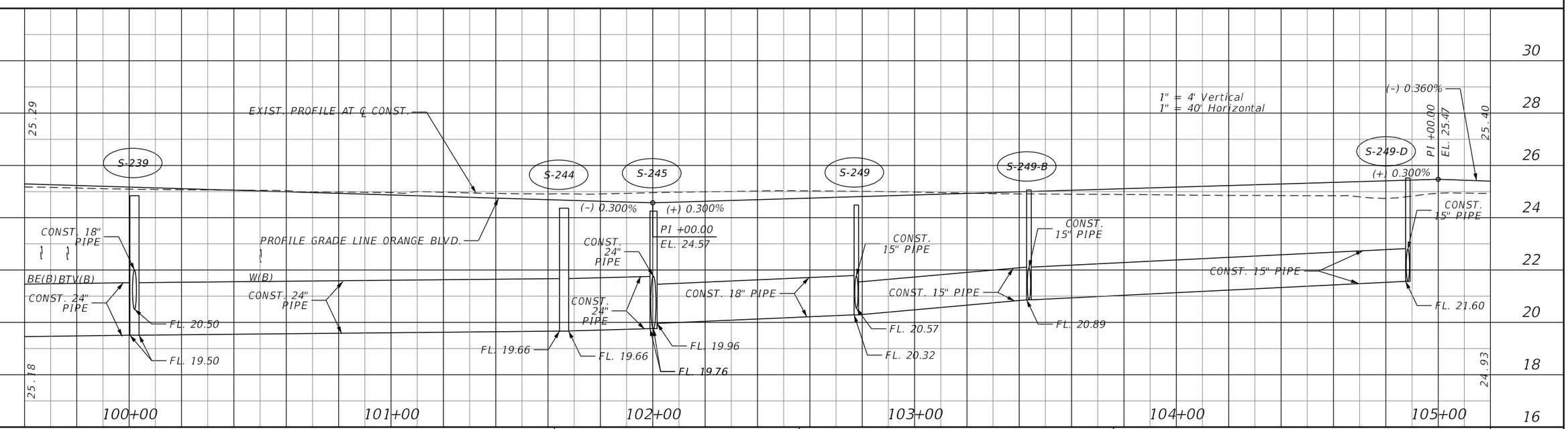
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 51

$USER$ $DATE$ $TIME$ $MODELNAME$ $FILE$





REVISIONS			
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P.E. LICENSE NUMBER 74741
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LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

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ROADWAY PLAN & PROFILE

SHEET NO. 52

$USER$ $DATE$ $TIME$ $MODELNAME$ $FILE$

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MATCH LINE STA. 105+20.00

MATCH LINE STA. 110+80.00

+56.08
165.66' (LT)

+62.29
165.82' (LT)

+64.04
160.84' (LT)

ES.T CONST. LIMITS

N. INDIANA ST.

+74.16
64.72' (LT)

6'

18' of 18" PIPE

+89.20
64.58' (LT)

TYPE F CURB AND GUTTER

+59.04
59.53' (LT)

S-301-1

TEMP. EASEMENT

PROP. R/W

+59.43
44.00' (LT)

EXIST. R/W

+65.51
44.00' (LT)

+95.26
55.26' (LT)

EXIST. R/W

+12.21
52.21' (LT)

+12.21
44.00' (LT)

PROPOSED R/W

6' of 6'X3' BC

S-302

S-301-2

35' R

CR-F

+24.77
23.75' (LT)

S-302-1

147' of (2)19"x30" PIPE

TYPE F CURB AND GUTTER

S-304

128' of (2)19"x30" PIPE

+11.95
27.21' (LT)

54' of (2)19"x30" PIPE

53' of (2)19"x30" PIPE

S-309

S-310

S-312

S-306

12' of 18" PIPE

7' of 6'X3' BC

S-313

+39.57
23.75' (LT)

90' of(2)14"x23" PIPE

+30.14
6.25' (LT)

25' of (2)14"x23" PIPE

17'

5'

+86.43
1.72' (RT)

S-305

48' of 18" PIPE

16'

50' R

+60.32
1.62' (LT)

℄ CONST. ORANGE BLVD

+25.49
3.25' (RT)

+70.43
1.75' (RT)

CUR3

106

107

108

109

110

24'

27'

+36.17
3.25' (RT)

+86.43
7.74' (RT)

3' TYPE I, OPTION I TRAFFIC SEPARATOR

+29.95
3.25' (LT)

5' R

N 75° 9' 40.80" E

N 76° 39' 40.68" E

+25.49
6.25' (RT)

EXISTING BOX CULVERT TO REMAIN

48" of 18" PIPE

+70.43
7.75' (RT)

3'- of- 6'X3' BC

S-314

47' of (2)14"x23" PIPE

+36.74
23.75' (RT)

+25.91
23.75' (RT)

+36.18
6.25' (RT)

3' TYPE I, OPTION I TRAFFIC SEPARATOR

+22.96
33.64' (RT)

TYPE E CURB AND GUTTER

+36.44
7.79' (LT)

+57.90
7.76' (RT)

+41.01
23.75' (RT)

3' TYPE I, OPTION I TRAFFIC SEPARATOR

17.5'

CR-H

CR-F

93' of 18" PIPE

S-307

S-308

S-311

10'

S-301

S-303-1

S-303

52' of 18" PIPE

EXIST. R/W

+20.28
44.62' (RT)

+25.27
23.75' (RT)

TYPE F CURB AND GUTTER

+57.10
47.16' (RT)

ORANGE CREEK (FUTURE)

+07.73
47.91' (RT)

EXISTING WEIR WALL WITHIN CULVERT TO REMAIN

EXISTING PIPE TO REMAIN

EXISTING STRUCTURE TO REMAIN

EXIST. R/W

+71.34
58.26' (RT)

DROP CURB

+71.43
67.57' (RT)

AMANDA RAE CIR.

+91.32
59.07' (RT)

DROP CURB

+91.42
67.40' (RT)

3' TRANSITION FROM TYPE F CURB TO DROP CURB

EXIST. EASEMENT LINE

CURVE DATA ORANGE_CL_CUR3
PI STA. = 106+27.36
Δ = 4° 32' 30" (LT)
D = 1° 08' 45"
T = 198.28
L = 396.35
R = 5,000.00
PC STA. = 104+29.08
PT STA. = 108+25.43
e = NORMAL CROWN

1" = 40'

1" = 4' Vertical
1" = 40' Horizontal

EXIST. PROFILE AT ℄ CONST.

PROFILE GRADE LINE ORANGE BLVD.

(–) 0.360%

(+) 0.366%

PI +00.00
EL. 23.67

25.40

24.93

23.96

24.20

CONST. (2)14"X23" PIPE

CONST. 18" PIPE

FL. 19.92

CONST. (2)14"x23" PIPE

FL. 19.84

CONST. (2)14"x23" PIPE

FL. 19.10

FL. 20.03

CONST. 18" PIPE

CONST. 18" PIPE

CONST. (2)19"x30" PIPE

FL. 19.83

FL. 19.73

CONST. (2)19"x30" PIPE

FL. 18.81

CONST. (2)19"x30" PIPE

FL. 18.49

CONST. 18" PIPE

CONST. (2)19"x30" PIPE

CONST. (2)19"x30" PIPE

FL. 19.11

FL. 19.06

FL. 18.30

FL. 18.13

106+00

107+00

108+00

109+00

110+00

S-302

S-301-2

S-302-1

S-305

S-306

S-309

S-312

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 53

MATCH LINE STA. 110+80.00

MATCH LINE STA. 116+40.00

EST. CONST. LIMITS

+10.90 51.84' (LT)
+05.90 56.84' (LT)
+05.90 44.00' (LT)
+20.89 51.84' (LT)
+25.90 56.84' (LT)
+25.90 44.00' (LT)

PROPOSED R/W

EXIST. R/W

M-13

5'

+20.36 7.75' (LT)

TYPE E CURB AND GUTTER

16'

+17.32 7.75' (LT)

+42.56 44.00' (LT)
+42.74 26.83' (LT)
+42.56 57.58' (LT)
+42.56 51.58' (LT)
+69.23 57.53' (LT)
+00.61 53.85' (LT)
+00.87 48.10' (LT)
+83.50 53.87' (LT)
+53.26 51.54' (LT)

TYPE F CURB AND GUTTER

S-401

51' of 18" PIPE

+48.84 23.75' (LT)

CR-H

6' R

LANSDOWNE SUB-DIVISION

ASHDOWN CT.

35' R

193' of 18" PIPE

12' of 18" PIPE

+12.29 58.13' (LT)
+12.30 48.23' (LT)
+39.87 63.15' (LT)
+28.79 58.11' (LT)
+61.04 51.49' (LT)

S-401-1

S-401-2

83' of 18" PIPE

+38.86 7.75' (LT)
+63.79 23.75' (LT)

1" = 40'

N

EXIST. R/W

+77.14 51.44' (LT)
+99.12 51.43' (LT)
+37.30 51.41' (LT)
+37.30 44.00' (LT)
+37.31 26.41' (LT)

TYPE F CURB AND GUTTER

M-13

S-403

S-404

68' of 18" PIPE

111 112 113 114 115 116

+62.38 6.25' (LT)
+62.38 3.25' (LT)

+17.32 1.75' (LT)

TYPE E CURB AND GUTTER

+67.38 7.75' (RT)

27'

3' TYPE I, OPTION I TRAFFIC SEPARATOR

℄ CONST. ORANGE BLVD

+36.46 1.64' (RT)

5' R

50' R

N 76° 39' 40.68" E

+60.45 7.75' (RT)

TYPE E CURB AND GUTTER

51' of 18" PIPE

+30.01 37.37' (RT)

40'

S-400

S-402

S-405

68' of 18" PIPE

+27.42 48.37' (RT)

EXIST. EASEMENT LINE

TYPE F CURB AND GUTTER

EXIST. R/W

1" = 4' Vertical
1" = 40' Horizontal

23.96

24.20

PROFILE GRADE LINE ORANGE BLVD.

PI +25.00
EL. 24.86

S-401

(+) 0.366%

(-) 0.370%

S-401-2

S-403

S-404

(+) 0.356%

(-) 0.370%

PI +25.00
EL. 23.75

23.80

24.23

EXIST. PROFILE AT ℄ CONST.

CONST. 18" PIPE

BE(B)

BFOT(B) W(B)

BT(B)

FL. 20.01

FL. 20.50

FL. 19.65

FL. 19.50

FL 19.23

FL 19.07

BTV(B)

30 28 26 24 22 20 18 16

111+00 112+00 113+00 114+00 115+00 116+00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 54

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

MATCH LINE STA. 116+40.00

MATCH LINE STA. 122+00.00

1" = 40'

C & G TRANSITION

+19.22
85.76' (LT)

+14.62
67.16' (LT)

+19.68
53.56' (LT)

+13.14
25.69' (LT)

+27.39
43.82' (LT)

+03.72
89.59' (LT)

+94.01
50.34' (LT)

+86.62
44.00' (LT)

+82.47
26.31' (LT)

N. OREGON ST.

35' R

EXIST. R/W

PROPOSED R/W

75' of 18" PIPE

293' of 24" PIPE

+48.60
23.75' (LT)

+49.45
43.66' (LT)

+49.49
34.71' (LT)

LAND
TECHNOLOGIES

+85.22
43.67' (LT)

+85.49
34.72' (LT)

212' of 24" PIPE

M-13

S-407

S-409

TYPE E CURB
AND GUTTER

+07.82
7.75' (LT)

TYPE F CURB
AND GUTTER

+52.88
6.25' (LT)

+60.03
23.75' (LT)

CR-F

+31.57
7.75' (LT)

+21.65
7.75' (LT)

+45.60
1.64' (LT)

117

118

119

120

121

N 76° 39' 40.68" E

+07.82
1.75' (LT)

+57.88
7.75' (RT)

3' TYPE I, OPTION I
TRAFFIC SEPARATOR

+52.88
3.25' (LT)

℄ CONST.
ORANGE BLVD

+29.17
1.64' (RT)

51' of 18" PIPE

+53.13
7.75' (RT)

TYPE E CURB
AND GUTTER

+02.74
23.75' (RT)

+43.21
7.75' (RT)

+43.56
23.75' (RT)

TYPE F CURB
AND GUTTER

+98.18
24.13' (RT)

CR-H

S-406

S-408

+96.33
38.75' (RT)

75' of 18" PIPE

EXIST. R/W

TYPE F CURB AND GUTTER

+06.28
48.75' (RT)

+35.77
48.76' (RT)

EXIST. R/W
PROPOSED R/W

+13.19
47.14' (RT)

+94.88
62.32' (RT)

+87.10
93.98' (RT)

+51.26
85.35' (RT)

N. OREGON ST.

1" = 4' Vertical
1" = 40' Horizontal

250' V.C. K=255

250' V.C.
K=271

+75.00 EL. 24.28

+25.00 EL. 23.95

+68.41 EL. 23.06

PI +00.00
EL. 24.73
(+) 0.356%
(~) 0.623%

(~) 0.623%

EXIST. PROFILE AT ℄ CONST.

PROFILE GRADE LINE ORANGE BLVD.

CONST. 18" PIPE

FL. 18.86

FL. 18.86

CONST. 24" PIPE

FL. 19.42

FL 17.88

FL. 13.40

CONST. 24" PIPE

| | | |

CURVE DATA ORANGE_CL_CUR4
PI STA. = 129+48.63
Δ = 2° 49' 52" (RT)
D = 0° 28' 39"
T = 296.54
L = 592.96
R = 12,000.00
PC STA. = 126+52.09
PT STA. = 132+45.05
e = NORMAL CROWN

MATCH LINE STA. 122+00.00

MATCH LINE STA. 127+60.00

+29.29 43.54' (LT)
+29.34 34.72' (LT)
+43.31 43.53' (LT)
+43.34 34.72' (LT)
S-411
M-13
TYPE F CURB AND GUTTER
121' of 24" PIPE
EXIST. R/W
71' of 24" PIPE
81' of 24" PIPE
S-412
+36.77 23.75' (LT)
S-414
PROPOSED R/W
+17.74 42.75' (LT)
+93.50 17.56' (LT)
S-416
399' of 24" PIPE
+32.77 42.61' (LT)
66' of 24" PIPE
LOCKHART-SMITH CANAL
M-13
S-417
+43.46 13.75' (LT)
+51.56 13.55' (LT)
S-419
TYPE F CURB AND GUTTER
122 123 124 125 126 127
PI STA. 124+57.67
PI STA. 125+43.41
N 76° 39' 40.68" E
N 76° 9' 40.68" E
N 76° 41' 12.97" E
N 76° 41' 12.97" E
℄ CONST. ORANGE BLVD
+93.18 18.31' (RT)
+48.17 15.24' (RT)
+51.54 14.55' (RT)
CUR4
TYPE F CURB AND GUTTER
TYPE F CURB AND GUTTER
51' of 18" PIPE
+49.73 23.75' (RT)
S-410
S-413
M-13
S-415
M-13
S-419-1
S-419-1A
42' of 15" PIPE
131' of 18" PIPE
72' of 18" PIPE
42' of 15" PIPE
PROPOSED R/W
EXIST. R/W
BEGIN BRIDGE STA. 125+63.41
END BRIDGE STA. 126+31.41
PBL STA. 126+52.09
+63.39 47.42' (RT)
+87.16 47.00' (RT)
+42.97 47.83' (RT)
+61.54 47.11' (RT)
BEGIN APPR. SLAB STA. 125+43.41
BRIDGE WIDENING (SEE BRIDGE PLANS)
END APPR. SLAB STA. 126+51.41
YOUNGBLOOD BUILDING MOVERS
1" = 40'

250' V.C.
K=271
PROFILE GRADE LINE ORANGE BLVD.
BEGIN BRIDGE STA. 125+43.41
END BRIDGE STA. 126+51.41
1" = 4' Vertical
1" = 40' Horizontal
22.88 22.79 22.71 22.64 22.59 22.56 22.54 22.53 22.54 22.57 22.61 +18.41 EL. 22.66 22.69
PI +93.41 EL. 22.28
(-) 0.623% (+) 0.300% (+) 0.300% (+) 0.519% (+) 0.519% (-) 0.407% (-) 0.407% (-) 0.366%
PI +97.41 EL. 23.31
PI +43.41 EL. 23.03
PI +51.41 EL. 23.09
S-411 S-412 S-414 S-416 S-417 S-418 S-419
CONST. 18" PIPE
EXIST. PROFILE AT ℄ CONST.
W(B) BTV(B) BFOC(B)
23.42 22.99
FL. 13.02 FL. 17.86 FL. 12.80 FL. 12.62 FL. 12.42 FL. 12.26 FL. 12.39
CONST. 24" PIPE
26 24 22 20 18 16 14 12
122+00 123+00 124+00 125+00 126+00 127+00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

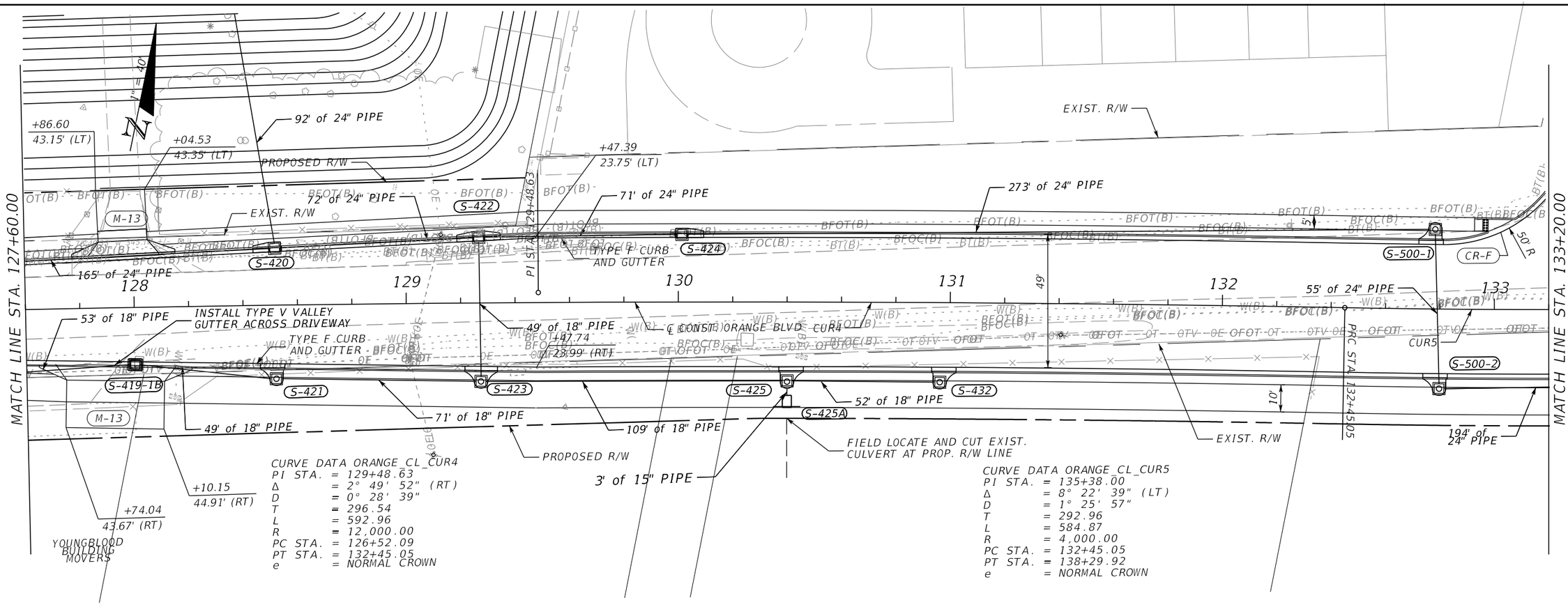
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

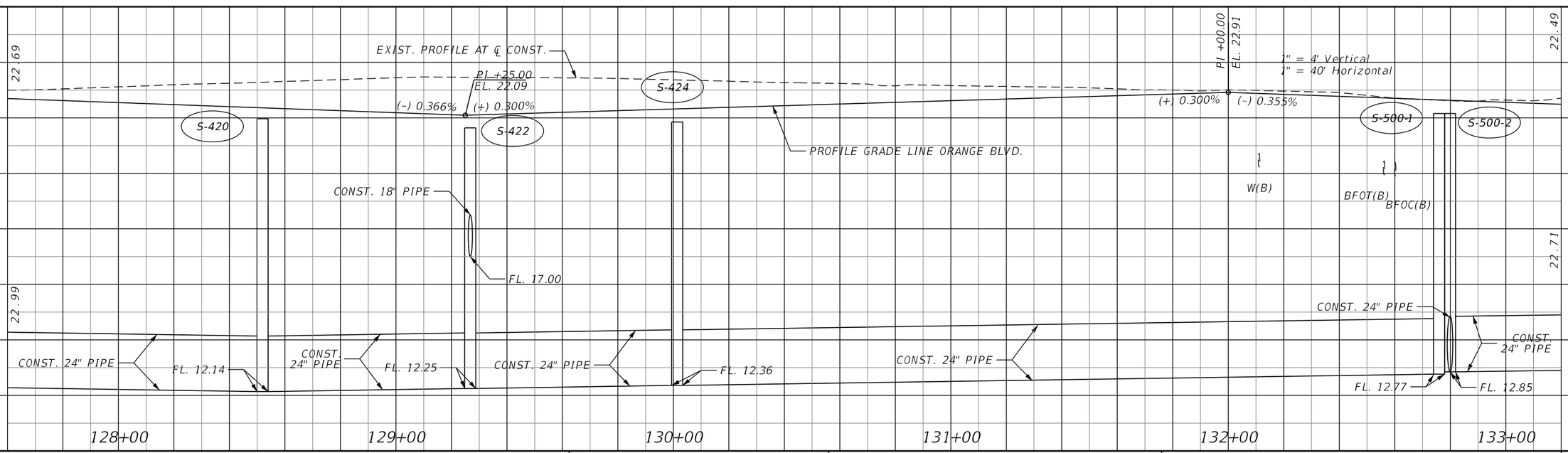
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 56





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 57

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

CURVE DATA ORANGE_CL_CUR5
PI STA. = 135+38.00
Δ = 8° 22' 39" (LT)
D = 1° 25' 57"
T = 292.96
L = 584.87
R = 4,000.00
PC STA. = 132+45.05
PT STA. = 138+29.92
e = NORMAL CROWN

CURVE DATA ORANGE_CL_CUR6
PI STA. = 141+56.69
Δ = 14° 33' 44" (RT)
D = 2° 17' 31"
T = 319.42
L = 635.40
R = 2,500.00
PC STA. = 138+37.27
PT STA. = 144+72.67
e = NORMAL CROWN

1" = 40'

MATCH LINE STA. 133+20.00

MATCH LINE STA. 138+80.00

MISSOURI AVE. (SR 15)

+39.66 105.87' (LT)
+70.88 95.68' (LT)
+72.35 81.96' (LT)
+83.09 83.33' (LT)
+87.85 74.08' (LT)
+81.63 63.99' (LT)
+66.80 77.31' (LT)
+30.72 63.88' (LT)
+22.65 42.66' (LT)
+21.96 34.75' (LT)
+99.55 23.75' (RT)
+13.43 15.83' (RT)
+18.15 23.75' (RT)
+84.70 26.39' (RT)
+57.46 47.75' (RT)
+62.55 47.75' (RT)
+71.67 42.75' (RT)
+69.66 42.75' (RT)
+65.95 92.34' (RT)
+46.00 92.13' (RT)

50' R
35' R
CR-F
TYPE F CURB AND GUTTER
FENCE TO BE REMOVED BY OTHERS
EXIST. R/W
TEMP. EASEMENT
S-500-6
S-500-5
S-500-4
S-500-3
66' of 18" PIPE
86' of 24" PIPE
118' of 24" PIPE
26' of 24" PIPE
84' of 24" PIPE
72' of 22"x34" PIPE
37' of 22"x34" PIPE
13' OF 15" PIPE
CUR5
CUR6
PI STA. 135+38.00
PT STA. 138+29.92
℄ CONST. ORANGE BLVD.
PROPOSED R/W
HALSEY AVE. TIE IN
HALSEY AVE.
S-506-1
S-506-2
S-506
S-508-D
S-508-A
M-13
EXIST. R/W
EST. CONST. LIMITS
59'
10'
47.5'
5'
134
135
136
137
138

+46.00 92.13' (RT)
+65.95 92.34' (RT)
102' of 22"x34" PIPE
+20.87 183.65' (RT)
+06.70 170.19' (RT)
+84.71 158.76' (RT)
+77.76 177.79' (RT)
S-501
EXIST. PIPE TO REMAIN
EXISTING PIPE TO REMAIN
EXISTING CB TO REMAIN
EXISTING CB TO REMAIN

1" = 4' Vertical
1" = 40' Horizontal

300' V.C.
K=531

+70.00 EL. 22.31
+70.00 EL. 20.40
PI +20.00 EL. 21.78
(-) 0.355%
(-) 0.920%
(-) 0.920%

22.49
22.28
22.20
22.11
22.02
21.92
21.81
21.69
21.57
21.44
21.30
21.15
21.00
20.84
20.67
20.49
22.71
18.47
17.95

EXIST. PROFILE AT ℄ CONST.
PROFILE GRADE LINE ORANGE BLVD.

BT(B)
BFOC(B)
BFOT(B)
W(B)

CONST. 18" PIPE
CONST. 24" PIPE
CONST. 24" PIPE
CONST. 22" X 34" PIPE
CONST. 24" PIPE
CONST. 24" PIPE

FL. 13.12
FL. 13.42
FL. 15.31
FL. 14.95
FL. 13.95

134+00
135+00
136+00
137+00
138+00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 58

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

MATCH LINE STA. 138+80.00

MATCH LINE STA. 144+40.00

EXIST. R/W

PROPOSED R/W

FERGUSON WATERWORKS

PI STA. 141+56.69

BOBBY LEE PL

EST. CONST. LIMITS

1" = 40'

+34.36
37.67' (LT)

+31.13
26.51' (LT)

+66.63
44.17' (LT)

+11.35
66.93' (LT)

+07.12
45.24' (LT)

+88.18
49.19' (LT)

+22.49
64.68' (LT)

+23.21
49.12' (LT)

+43.78
32.15' (LT)

+42.97
27.10' (LT)

+56.15
23.75' (LT)

+16.21
43.26' (LT)

+09.27
48.25' (LT)

+28.26
16.67' (LT)

+55.23
S-514 (LT)

+41.34
17.00' (LT)

+85.62
23.75' (LT)

TYPE F CURB AND GUTTER

139

140

141

142

143

144

52' of 18" PIPE

℄ CONST. ORANGE BLVD

CR-F

35' R

5'

47.5'

CUR6

45' of 24" PIPE

79' of 24" PIPE

S-510

S-514

M-13

S-508

S-508-B

S-508-C

10' of 15" PIPE

116' of 24" PIPE

120' OF 24" PIPE

+03.26
47.75' (RT)

+98.26
47.75' (RT)

+81.84
42.75' (RT)

+21.19
42.75' (RT)

+63.00
42.75' (RT)

+52.82
42.75' (RT)

+25.78
43.05' (RT)

68' of 24" PIPE

PROPOSED R/W

0C3-2 POND DRIVEWAY
+96.48
50.15' (RT)

0C3-2 POND DRIVEWAY
+20.98
50.22' (RT)

S-515

12

POND 0C3-2
SEE POND DETAIL SHEET

13

10'

CURVE DATA ORANGE_CL_CUR6
PI STA. = 141+56.69
Δ = 14° 33' 44" (RT)
D = 2° 17' 31"
T = 319.42
L = 635.40
R = 2,500.00
PC STA. = 138+37.27
PT STA. = 144+72.67
e = NORMAL CROWN

S-508

S-508-C

S-510

S-514

(-) 0.920%

PROFILE GRADE LINE ORANGE BLVD

CONST. 15" PIPE

CONST. 18" PIPE

CONST. 24" PIPE

FL. 13.60

FL. 13.85

FL. 13.28

FL. 12.68

FL. 11.17

FL. 10.85

FL. 10.08

BE(B)

W(B)

1" = 4' Vertical
1" = 40' Horizontal

EXIST. PROFILE AT ℄ CONST.

18.47

17.95

13.32

11.82

18
16
14
12
10
8
6
4

139+00
140+00
141+00
142+00
143+00
144+00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

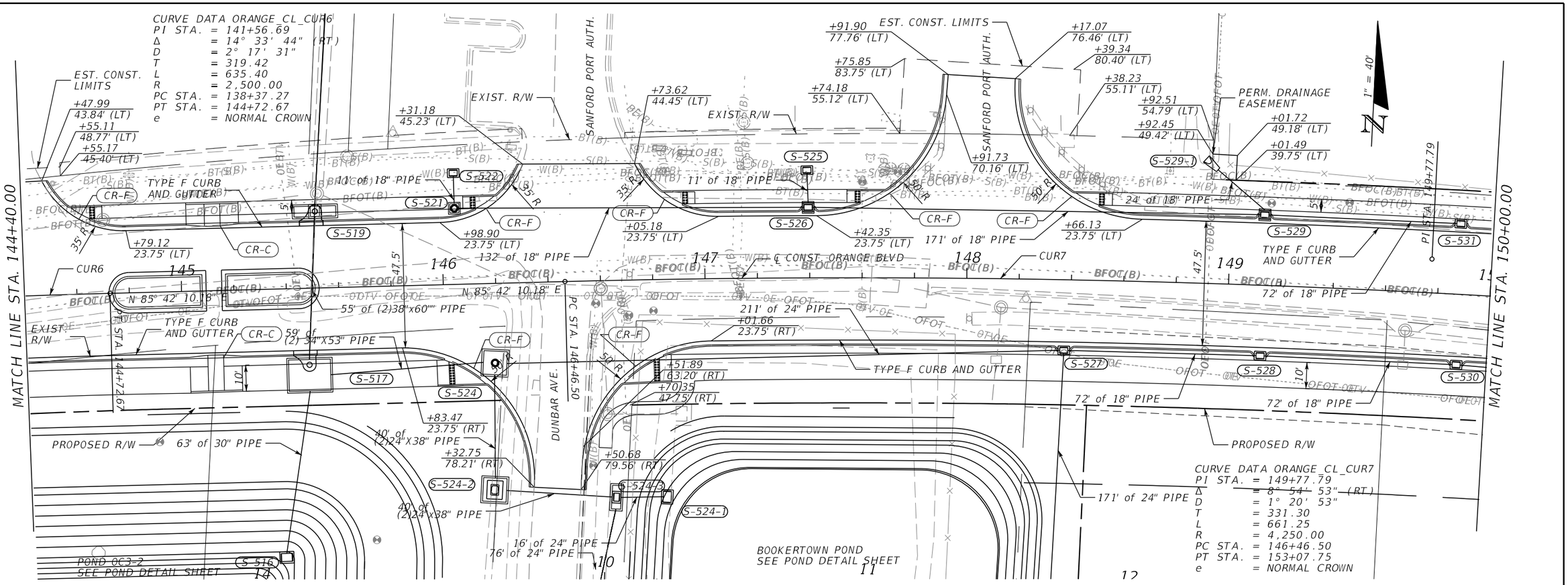
SEMINOLE COUNTY PUBLIC WORKS

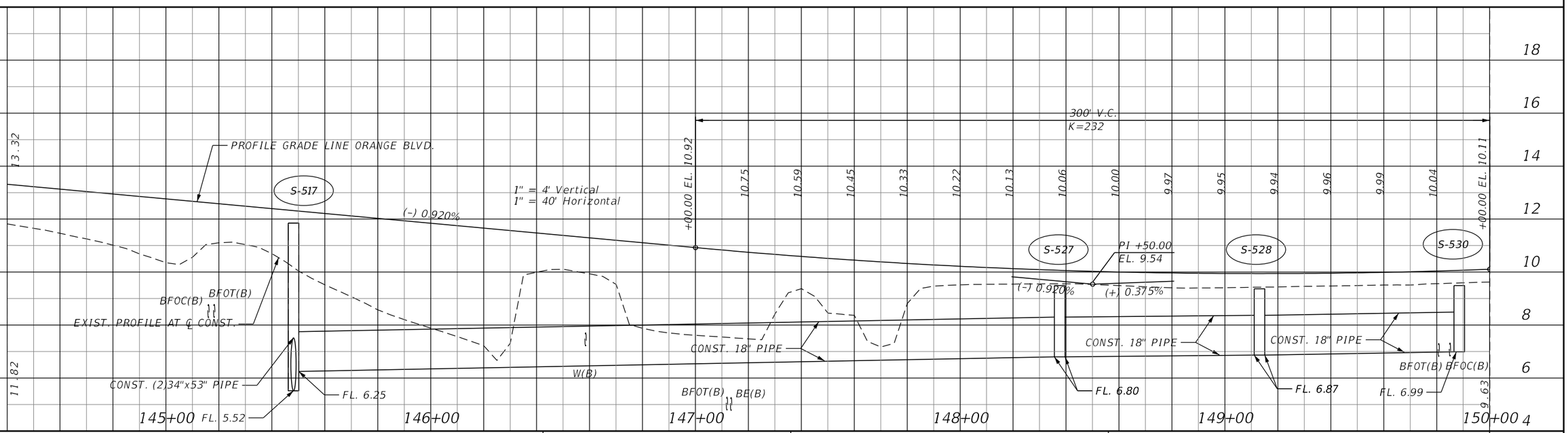
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 59

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





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

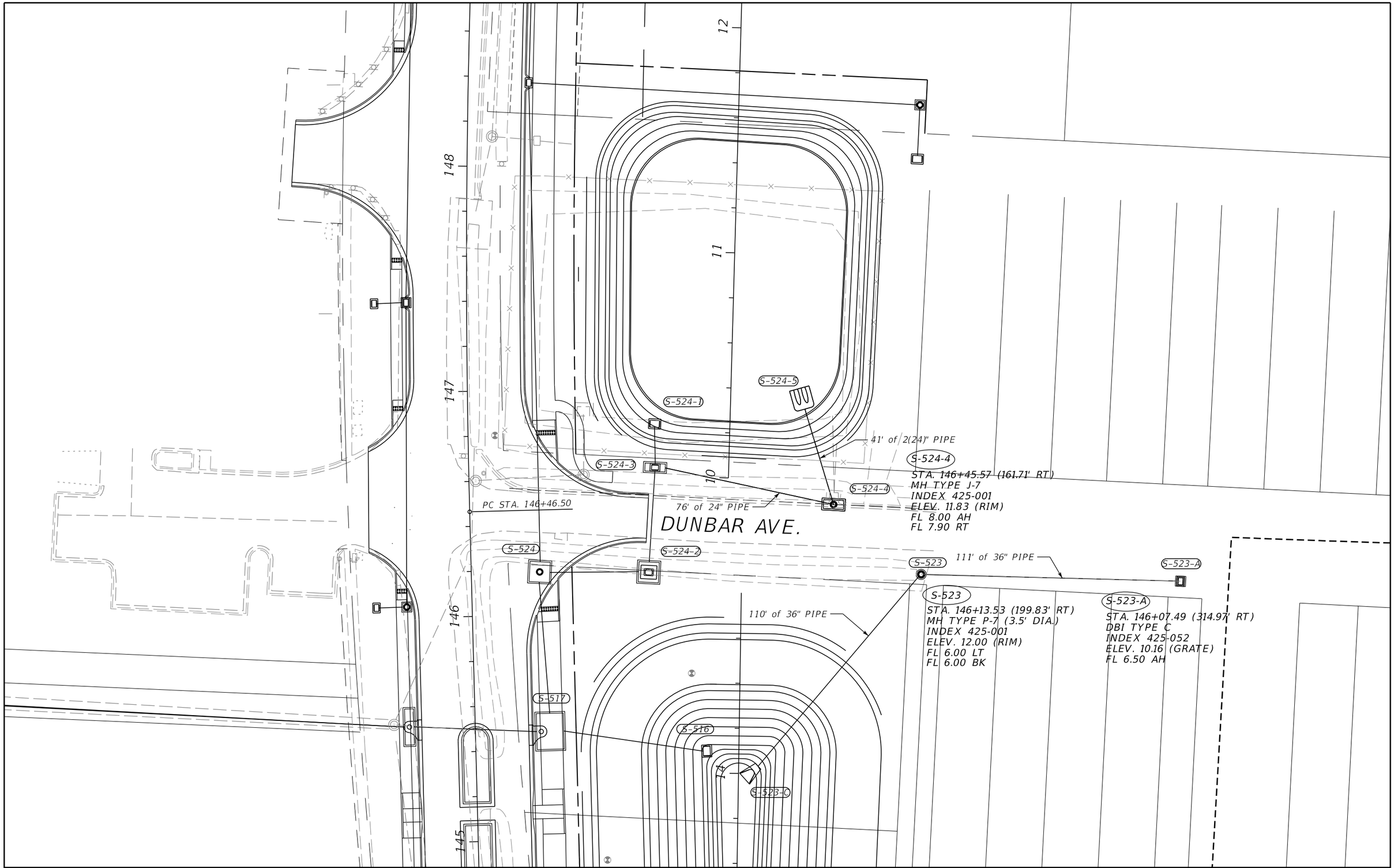
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 60

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

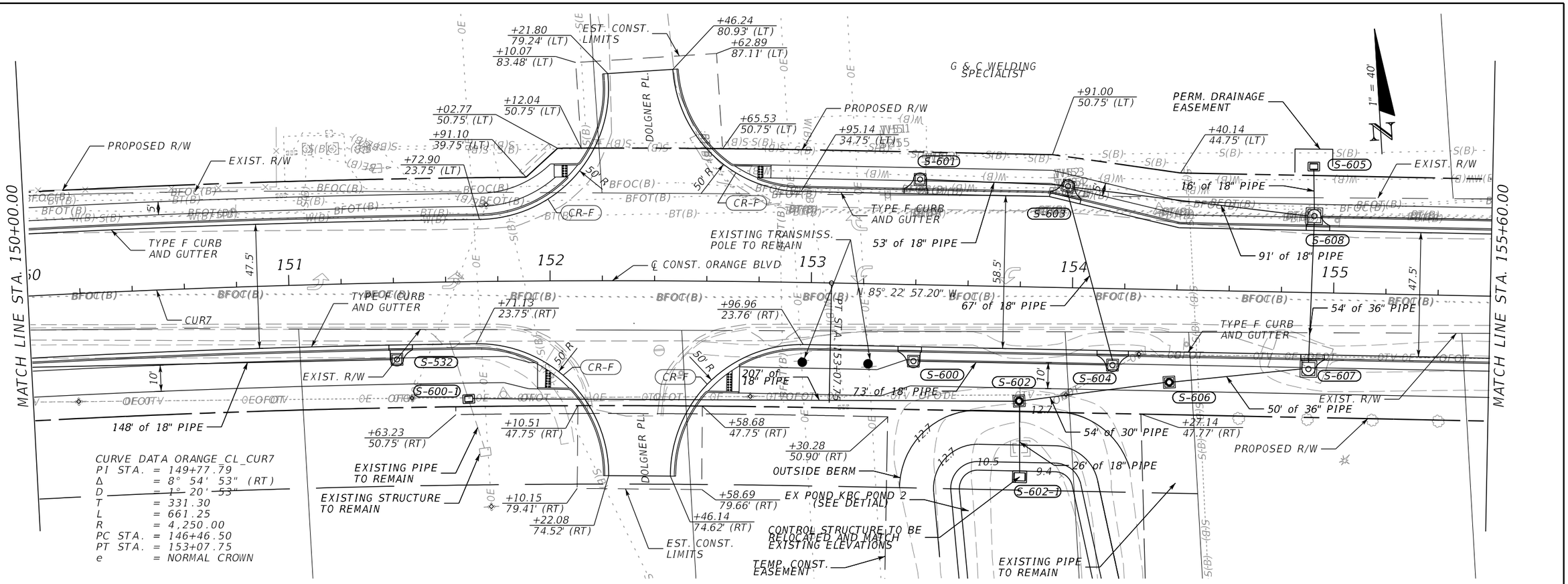
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SPECIAL DETAIL

SHEET NO. 60A



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 61

$USER$ $DATE$ $TIME$ $MODELNAME$ $FILE$

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

CURVE DATA ORANGE_CL_CUR8
PI STA. = 160+73.46
Δ = 26° 50' 27" (LT)
D = 10° 29' 37"
T = 130.28
L = 255.78
R = 546.00
PC STA. = 159+43.18
PT STA. = 161+98.96
e = REVERSE CROWN

RAMPART GUNWORKS

1" = 40'

POND OC4.1
SEE POND DETAIL SHEET

MATCH LINE STA. 155+60.00

MATCH LINE STA. 161+20.00

EST. CONST. LIMITS

+89.96 87.67' (LT)
+83.50 92.94' (LT)
+89.68 71.81' (LT)
+32.67 91.03' (LT)
+15.09 86.69' (LT)

KASTNER PL.

TYPE F CURB AND GUTTER
PROPOSED R/W
+70.23 53.75' (LT)
+39.38 23.75' (LT)
+59.68 44.75' (LT)
+66.13 53.75' (LT)
+63.69 66.17' (LT)
PERM. DRAINAGE EASEMENT
+65.85 41.20' (LT)
+16.60 55.10' (LT)
EXIST. R/W
+66.44 44.75' (LT)
+65.94 39.75' (LT)
+65.11 34.75' (LT)
+15.11 23.75' (LT)
+16.91 33.75' (LT)
+16.18 28.75' (LT)
EXISTING. R/W

S-611
S-613-1
S-610
S-615

CR-F
50' R

174' of 42" PIPE
EXIST. R/W
180' of 42" PIPE
+65.11 34.75' (LT)
+92.60 55.09' (LT)
TYPE F CURB AND GUTTER
137' of 18" PIPE

47.5'
156
157
158
159
160
161
BFOC(B)
BFOT(B)

EXISTING PIPES TO REMAIN
55' of 18" PIPE
℄ CONST. ORANGE BLVD
N 85° 22' 57.20" W
PC STA. 159+43.18
58.5'
CUR8
PT STA. 160+73.46

17' Extension of (3) 30" PIPE
+85.12 23.75' (RT)
TYPE F CURB AND GUTTER

10'
S-609
+41.54 23.75' (RT)
CR-F
RCP
OE
OTOE
OFOT

M-13
S+617
S-613
S-616

PROPOSED R/W
+77.95 47.75' (RT)
EXIST. R/W
+08.39 70.02' (RT)
+19.63 69.26' (RT)
PERM. DRAINAGE EASEMENT
184' OF (2) 36" PIPE
EST. CONST. LIMITS
+35.23 77.19' (RT)
+35.34 50.51' (RT)
EXIST. R/W
53' OF (2) 36" PIPE
+78.34 62.97' (RT)
+97.51 66.54' (RT)
EXISTING STRUCTURE TO REMAIN
+92.16 80.09' (RT)
EXISTING PIPE TO REMAIN
6' R
+80.53 85.90' (RT)
+08.99 78.95' (RT)
+20.24 78.20' (RT)
+47.54 81.37' (RT)
EXIST. LIMITED ACCESS R/W

350' V.C.
K=519
+95.34
SUPERELEVATION TRANSITION (R1)
-0.02 TO +0.02
+90.34
FULL SUPERELEVATION (-0.02)
PI +00.00
EL. 11.55
(+) 0.374%
(-) 0.300%
1" = 4' Vertical
1" = 40' Horizontal
PROFILE GRADE LINE ORANGE BLVD.
10.36
10.43
+10.46 EL. 10.47
10.89
10.16
9.62
CONST. 18" PIPE
FL. 5.85
CONST. 18" PIPE
FL. 4.15
EXIST. PROFILE AT ℄ CONST.
BTV(B)
BFOC(B)
W(B)
BFOT(B)
CONST. 24" PIPE
FL. 3.84
3.84
BT(B)
FL. 6.44
CONST. 18" PIPE
14
12
10
8
6
4
2
0
156+00
157+00
158+00
159+00
160+00
161+00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 62

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

POND OC4-1
SEE POND
DETAIL SHEET

PROPOSED
R/W

EXIST. R/W

62' of 36" PIPE

+27.83
40.82' (LT)

71' of 18" PIPE

+38.47
42.75' (LT)

SEE DRAINAGE DETAIL
SHEET FOR DITCH INFO.

TYPE F CURB AND GUTTER

S-620

S-622

72' of 18" PIPE

℄ CONST. ORANGE BLVD

N 67° 46' 36.01" E

PC STA 163+52.18

S-624

112' of 18" PIPE

S-625

CUR9

+62.58
28.75' (LT)

S-618

73' of 18" PIPE

S-621

S-623

TYPE F CURB AND GUTTER

CUR8

104' of 18" PIPE

71' of 18" PIPE

121' of 18" PIPE

MATCH LINE STA. 161+20.00

MATCH LINE STA. 166+80.00

INTERSTATE 4
(WESTBOUND)

18" RCP

CURVE DATA ORANGE_CL_CUR8
PI STA. = 160+73.46
Δ = 26° 50' 27" (LT)
D = 10° 29' 37"
T = 130.28
L = 255.78
R = 546.00
PC STA. = 159+43.18
PT STA. = 161+98.96
e = REVERSE CROWN

1" = 40'

CURVE DATA ORANGE_CL_CUR9
PI STA. = 165+84.91
Δ = 59° 16' 57" (RT)
D = 14° 00' 31"
T = 232.73
L = 423.18
R = 409.00
PC STA. = 163+52.18
PT STA. = 167+75.36
e = 0.045

FULL SUPERELEVATION
(+0.02)

SUPERELEVATION TRANSITION (R1)
+0.02 TO -0.02

+52.12

+46.12

+74.65

SUPERELEVATION TRANSITION (L1)
-0.02 TO +0.045

+64.65

(R1)
-0.02 TO -0.045

+29.03

FULL SUPERELEVATION (+0.045)

10.89

12.19

PROFILE GRADE LINE ORANGE BLVD.

1" = 4' Vertical
1" = 40' Horizontal

S-618 S-620 S-621 S-623 S-624 S-625

(-) 0.300% (+) 0.320%

EXIST. PROFILE AT ℄ CONST.

PI +00.00
EL. 10.65

CONST. 24" PIPE
CONST. 18" PIPE

CONST. 18" PIPE
CONST. 18" PIPE
CONST. 18" PIPE
CONST. 18" PIPE
CONST. 18" PIPE
CONST. 18" PIPE
CONST. 18" PIPE

BE(B)BE(B)

BE(B)

10.10

FL. 6.21
FL. 5.98
FL. 5.48
FL. 5.67
FL. 5.87
FL. 6.15
FL. 6.55

12.12

18 16 14 12 10 8 6 4

162+00 163+00 164+00 165+00 166+00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 63

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LEGEND:
MILLING & RESURFACING

CURVE DATA ORANGE CL_CUR9
PI STA. = 165+84.91
Δ = 59° 16' 57" (RT)
D = 14° 00' 31"
T = 232.73
L = 423.18
R = 409.00
PC STA. = 163+52.18
PT STA. = 167+75.36
e = 0.045

INTERSTATE 4 (WESTBOUND)
INTERSTATE 4 (EASTBOUND)
EXIST. R/W
TYPE F CURB AND GUTTER
MATCH LINE STA. 166+80.00
MATCH LINE STA. 172+40.00
CURV9
47.5'
167
168
169
170
171
172
N 52° 56' 27.02" W
PT STA. 167+75.36
199' of 18" PIPE
℄ CONST. ORANGE BLVD
55' of 18" PIPE
S-627
S-626
S-628
S-629
S-630
S-631
14' of 18" PIPE
20' of 18" PIPE
TYPE F CURB AND GUTTER
+39.37 23.75' (RT)
+39.02 38.75' (RT)
+79.96 40.68' (RT)
10' R
10'
5'
+77.29 84.42' (LT)
+78.68 34.44' (LT)
+78.91 23.75' (LT)
+79.41 7.56' (LT)
+79.91 11.64' (RT)
BEGIN M&R LIMITS
PI STA. 170+42.77
N 52° 56' 27.02" W
N 54° 26' 27.00" W
END RECONSTRUCTION LIMIT
+80.57 27.69' (RT)
+43.31 33.75' (LT)
+43.18 28.75' (LT)
+10.18 33.75' (LT)
+06.18 28.75' (LT)
+12.26 33.23' (LT)
+12.26 27.23' (LT)
+12.26 25.23' (LT)
S-700
STA. 171+07.09 (26.74' LT)
CLOSED FLUME INLET
INDEX 425-061
ELEV. 11.89 (EOP)
EXISTING STRUCTURE TO REMAIN
GRADE TO DRAIN
EXIST. R/W
EXISTING STRUCTURE AND PIPE TO REMAIN
EXISTING PIPE TO REMAIN
+94.10 38.75' (RT)
+05.98 51.91' (RT)
EXIST. LIMITED ACCESS R/W
1" = 40'

END PROPOSED PROFILE
STA. 169+70.00
EL. 12.37
BEGIN SPECIAL GUTTER PROFILE (LT)
STA. 169+70.00
EL. 11.89
EXIST. PROFILE AT ℄ CONST.
1" = 4' Vertical
1" = 40' Horizontal
SUPERELEVATION TRANSITION (L1)
+0.045 TO -0.02
(R1)
-0.045 TO -0.02
+97.83
+92.83
+52.21
PI +50.00
EL. 12.73
12.19
12.12
12.66
(+) 0.320%
(-) 0.300%
PROFILE GRADE LINE ORANGE BLVD.
CONST. 18" PIPE
FL. 6.98
FL. 7.63
FL. 7.70
FL. 7.76
167+00
168+00
169+00
170+00
171+00
172+00

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 64

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LEGEND:

MILLING & RESURFACING

S-702
STA. 173+20.32 (26.52' LT)
CLOSED FLUME INLET
INDEX 425-061
ELEV. 10.84 (EOP)

S-703
STA. 174+50.43 (26.39' LT)
CLOSED FLUME INLET
INDEX 425-061
ELEV. 11.00 (EOP)

LEGEND:

SUNRAIL DR.

MATCH LINE STA. 172+40.00

GRADE TO DRAIN

EXIST. R/W

GRADE TO DRAIN

END RECONSTRUCTION LIMIT
+34.33'
30.75' (LT)

+32.38
32.80' (LT)

+33.31
30.75' (LT)

END M&R LIMITS
+16.50
23.45' (LT)

POT STA. 176+17.90

MONROE RD.

S-702

S-703

+92.68
24.84' (LT)

135' R

6'

16'

TYPE F
CURB AND GUTTER

173

174

175

176

N 54° 26' 27.00" W

+14.90
41.72' (RT)

+83.96
40.44' (RT)

10'

10'

+27.81
51.70' (RT)

+75.91
50.45' (RT)

S-704

+91.52
40.27' (RT)

END PROJECT
STA. 175+61.89

END M&R LIMITS
+16.65
37.79' (RT)

EXIST. R/W

EXISTING
STRUCTURE
TO REMAIN

EXISTING PIPE
TO REMAIN

EXISTING STRUCTURE
TO REMAIN

EXISTING PIPE
TO REMAIN

EXISTING STRUCTURE
TO REMAIN

EXIST. R/W

EXISTING PIPE
TO REMAIN

18" RCP

18" RCP

18" RCP

1" = 4' Vertical
1" = 40' Horizontal

(-) 0.300%

(+) 0.300%

PI +20.00
EL. 10.84

BT(B)

BFOT(B)

BFOT(B)

BFOT(B)

BE(B)

END SPEICAL
GUTTER PROFILE (LT)
STA. 175+33.06
EL 11.48
MATCH EXISTING

18
16
14
12
10
8
6
4

173+00
174+00
175+00
176+00

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

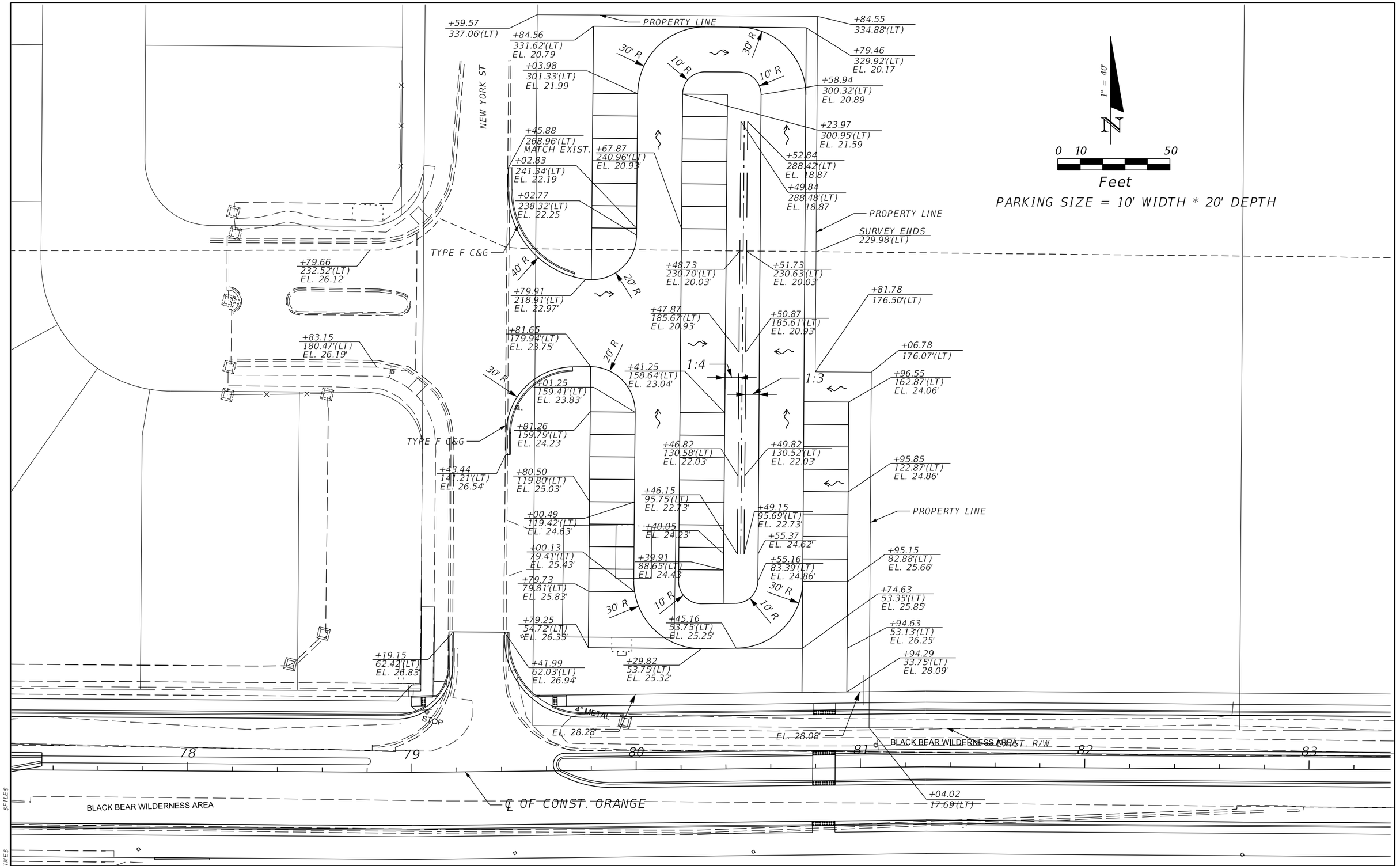
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY PLAN & PROFILE

SHEET NO. 65

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

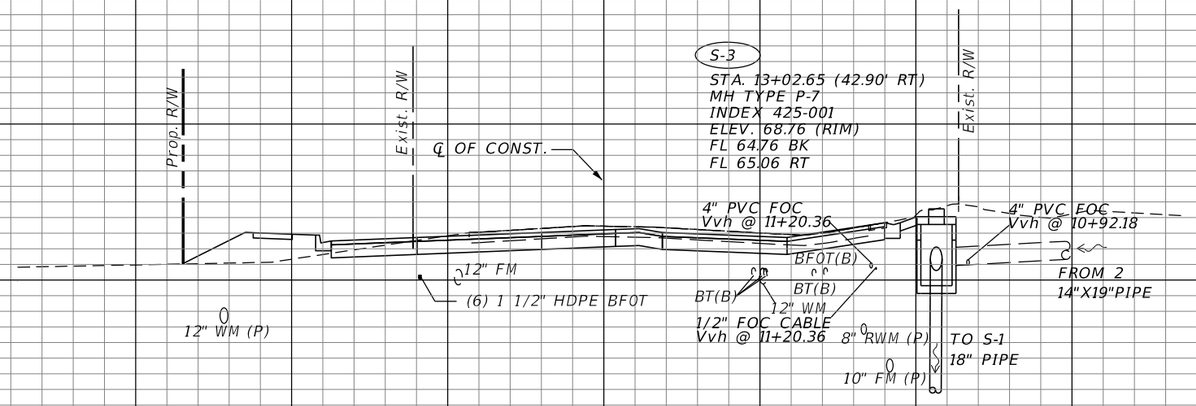
SEMINOLE COUNTY PUBLIC WORKS

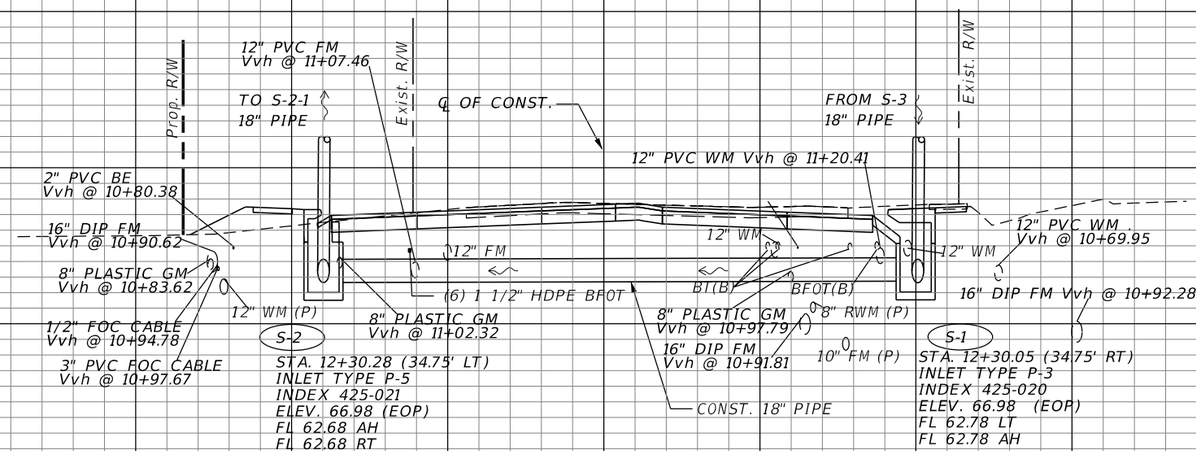
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

SPECIAL DETAIL

SHEET NO. 65A

$FILE$ $USER$ $DATE$ $TIME$ $MODELNAME$ $DATES$ $TIMES$ $FILES$





160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

S-3
13+02.52

S-2
S-1
12+30.05

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

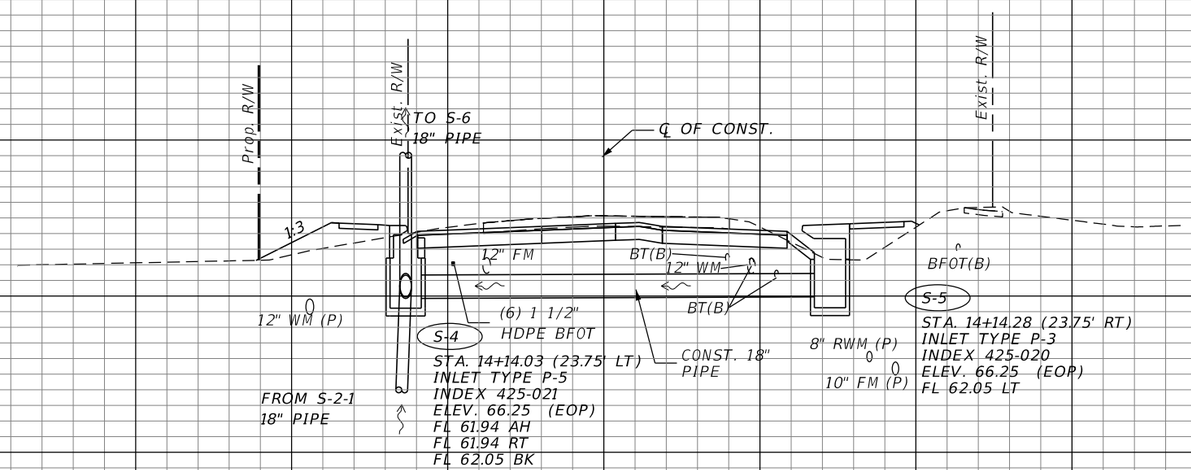
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

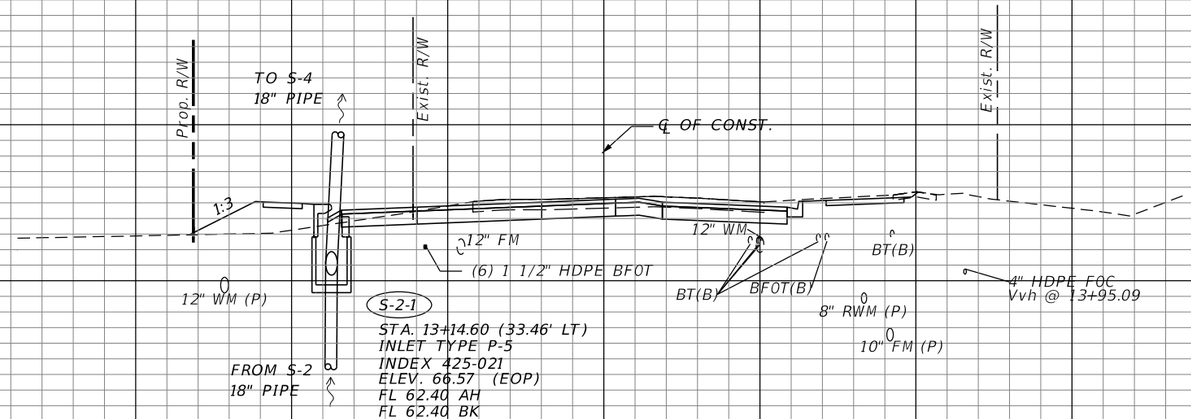
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 66





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

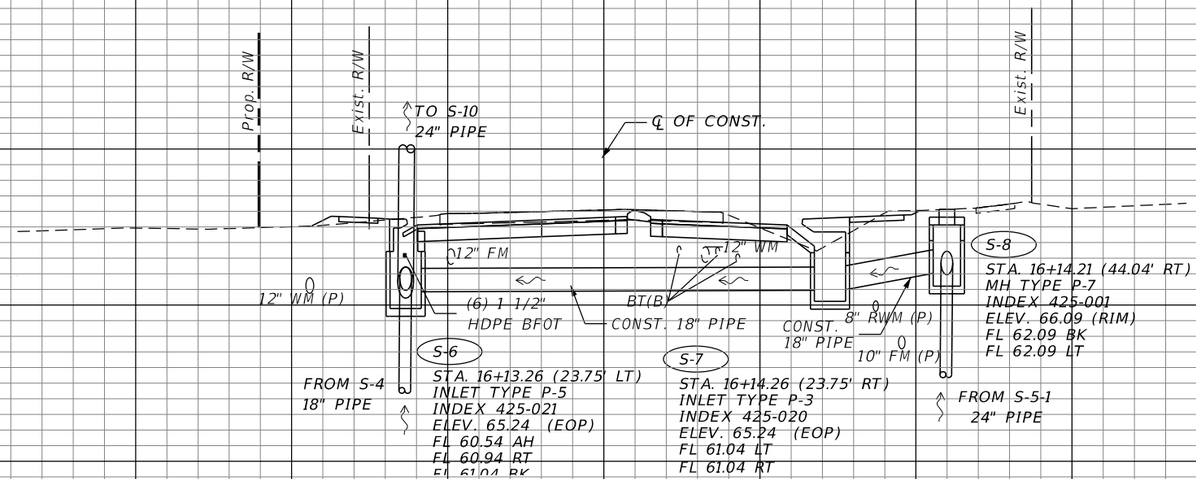
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
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SEMINOLE COUNTY PUBLIC WORKS

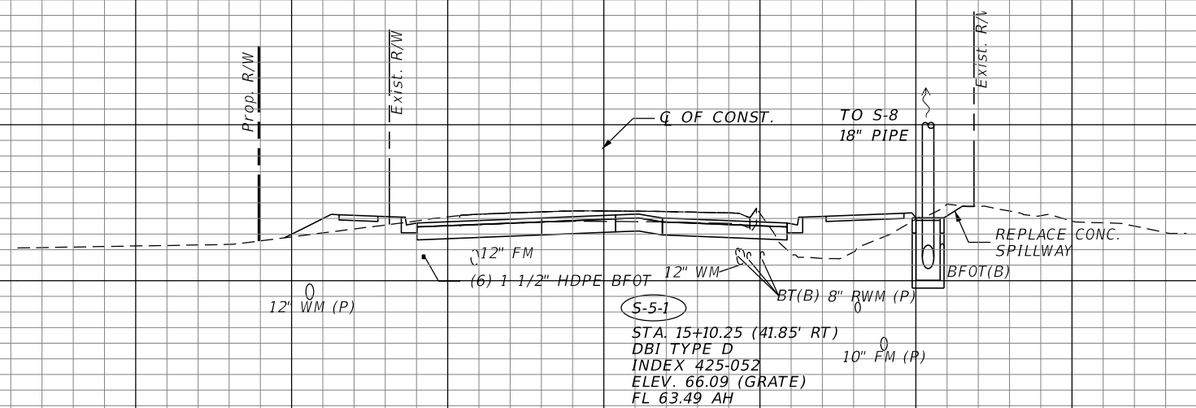
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 67



S-8
S-7
S-6
16+13.76



S-5-1
15+10.25

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

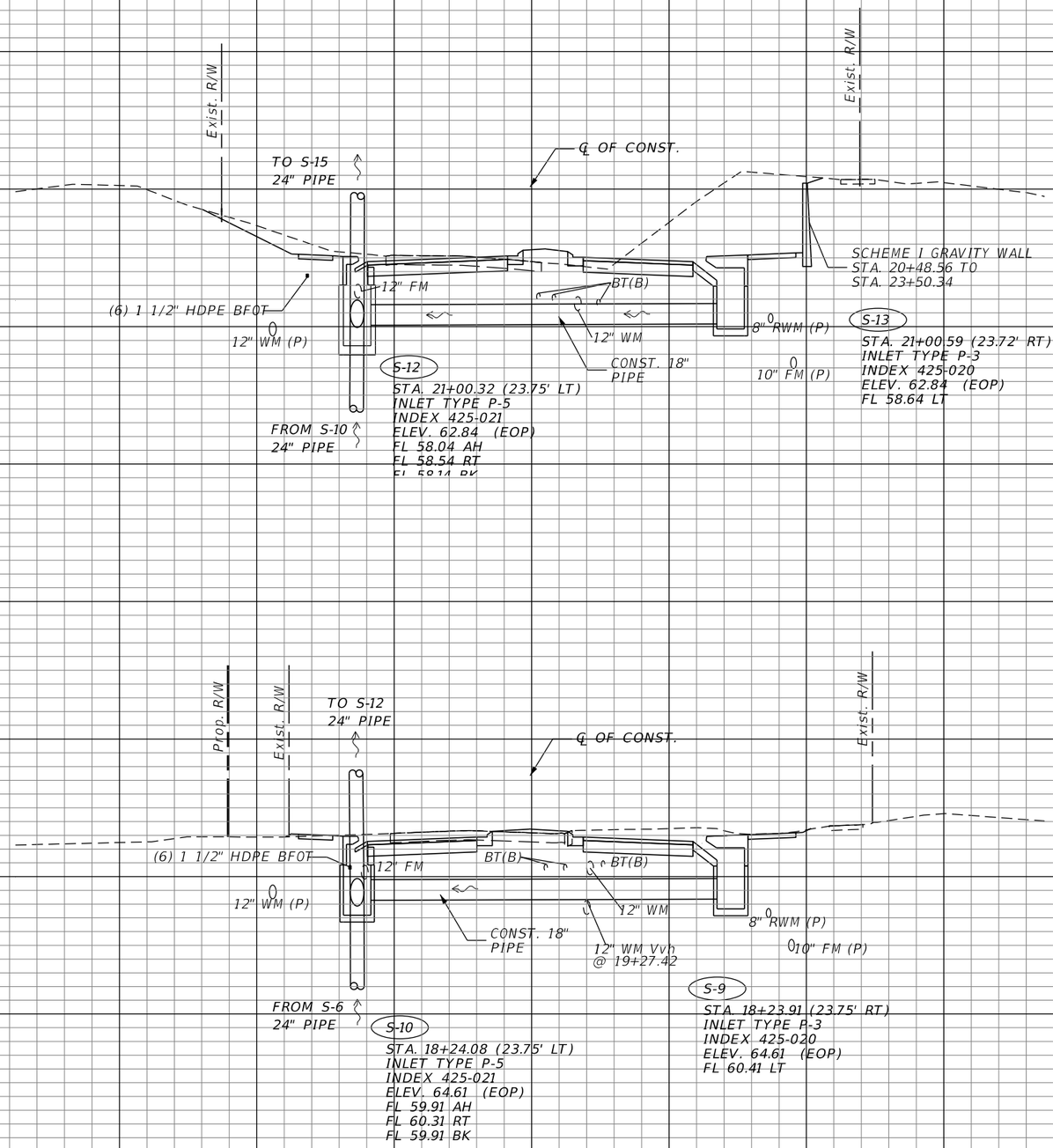
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P.E. LICENSE NUMBER 80872
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 68



S-13
S-12
21+00.45

S-10
S-9
18+24.00

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

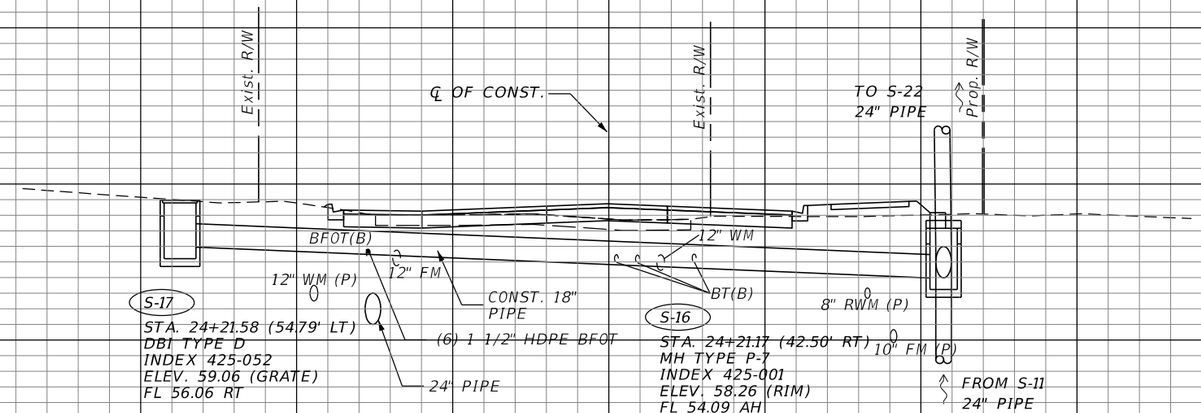
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

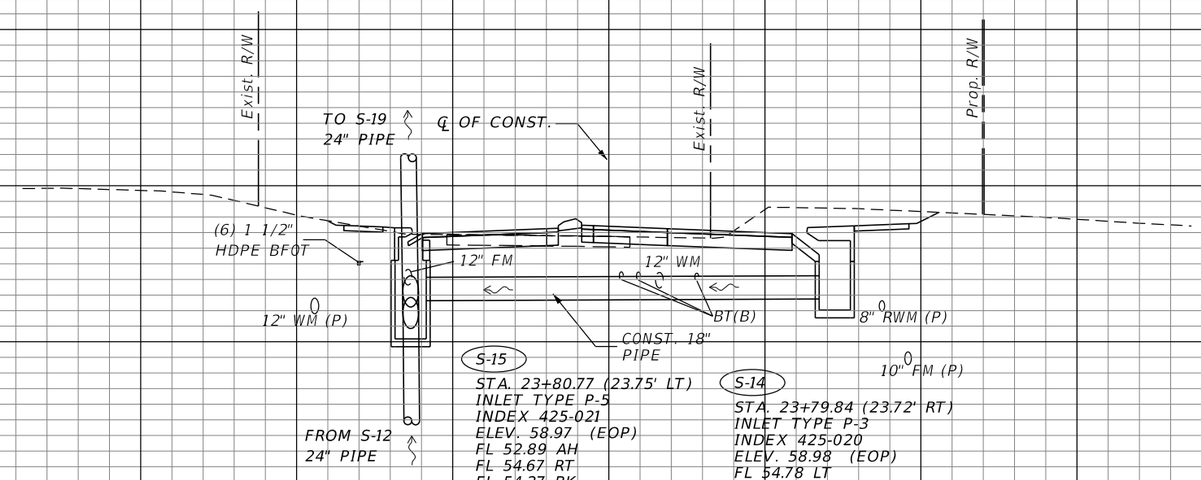
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 69





1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

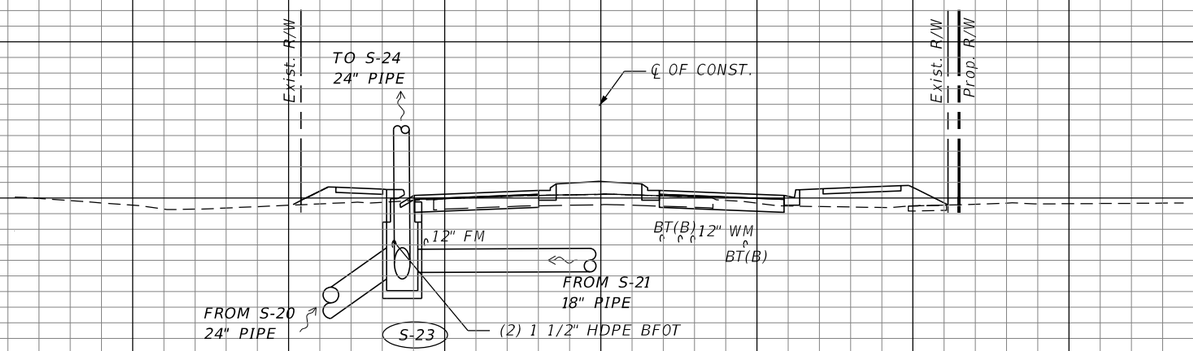
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

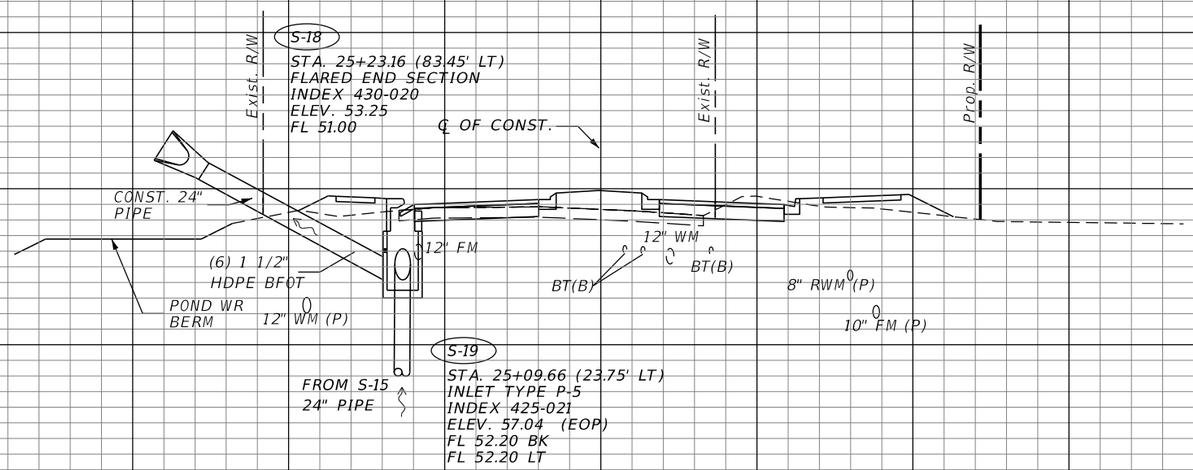
DRAINAGE STRUCTURES

SHEET NO. 70



S-23

26+94.27



S-19

S-18

25+09.66

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

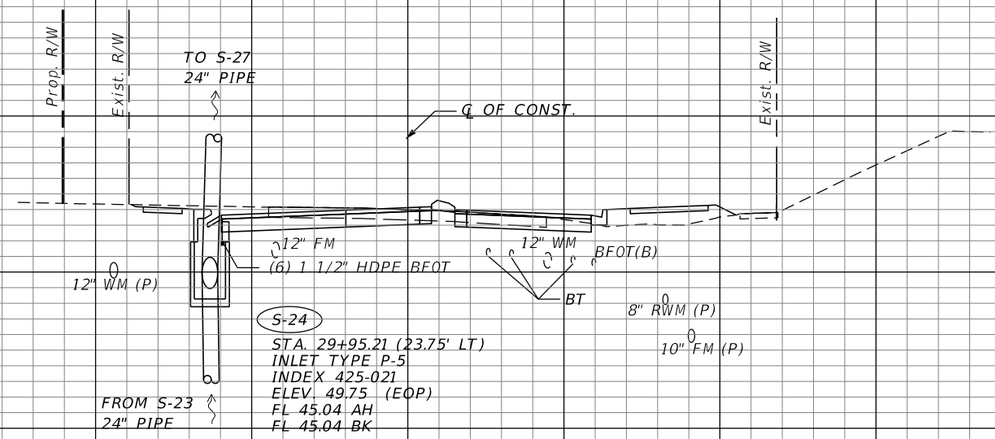
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

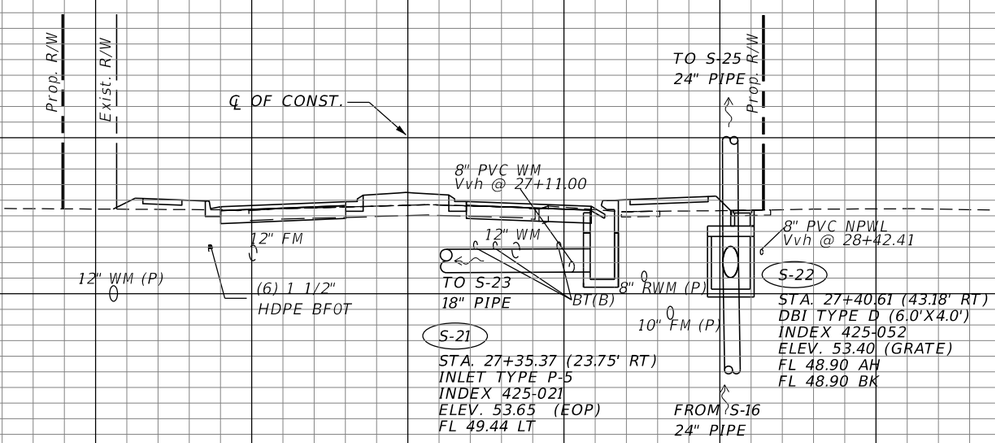
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 71





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

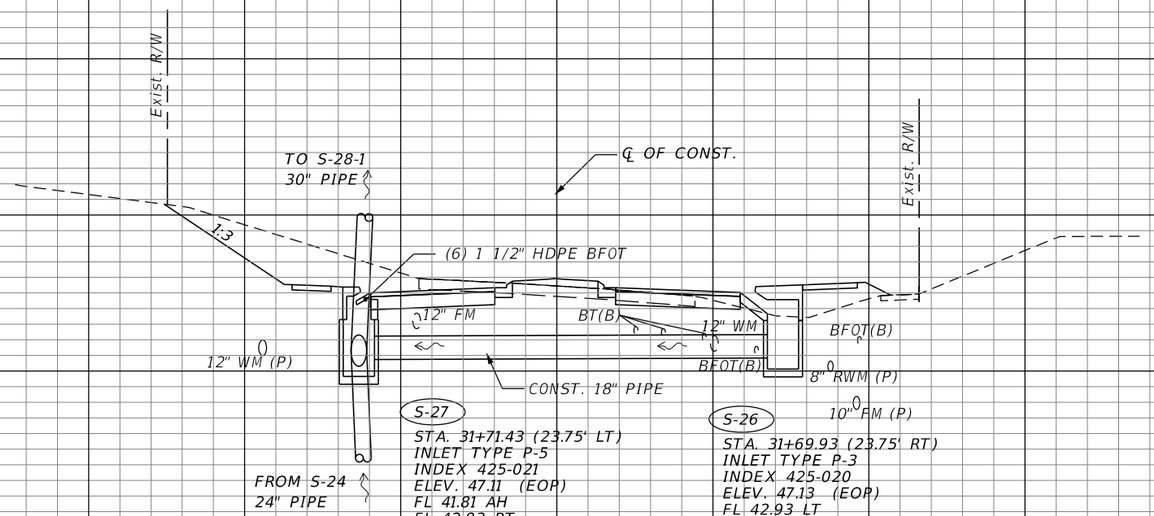
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

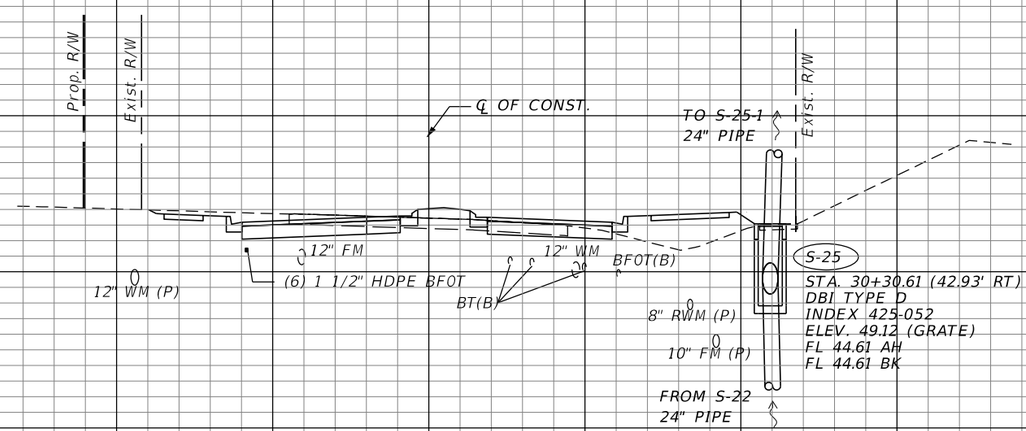
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 72





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

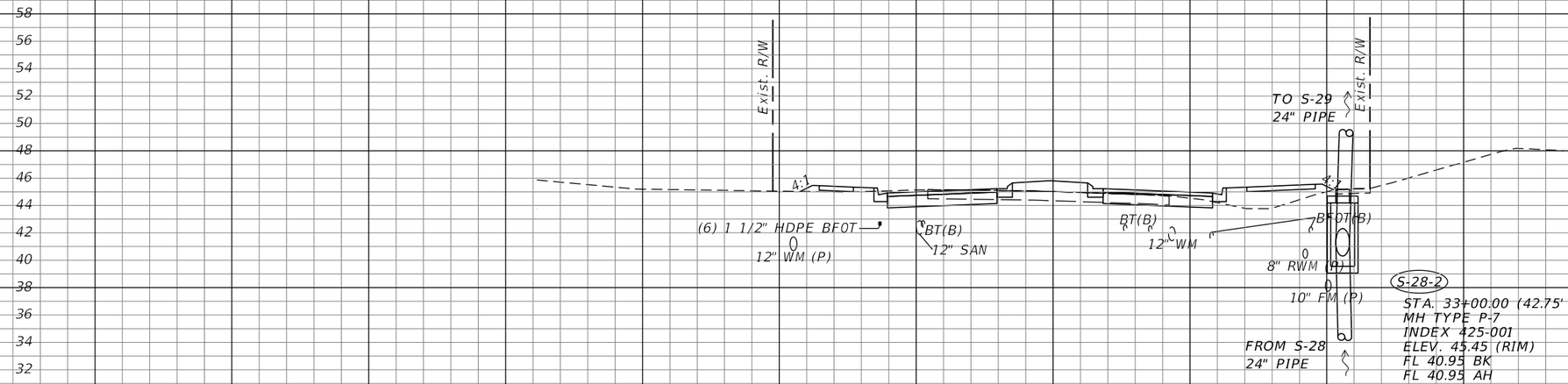
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

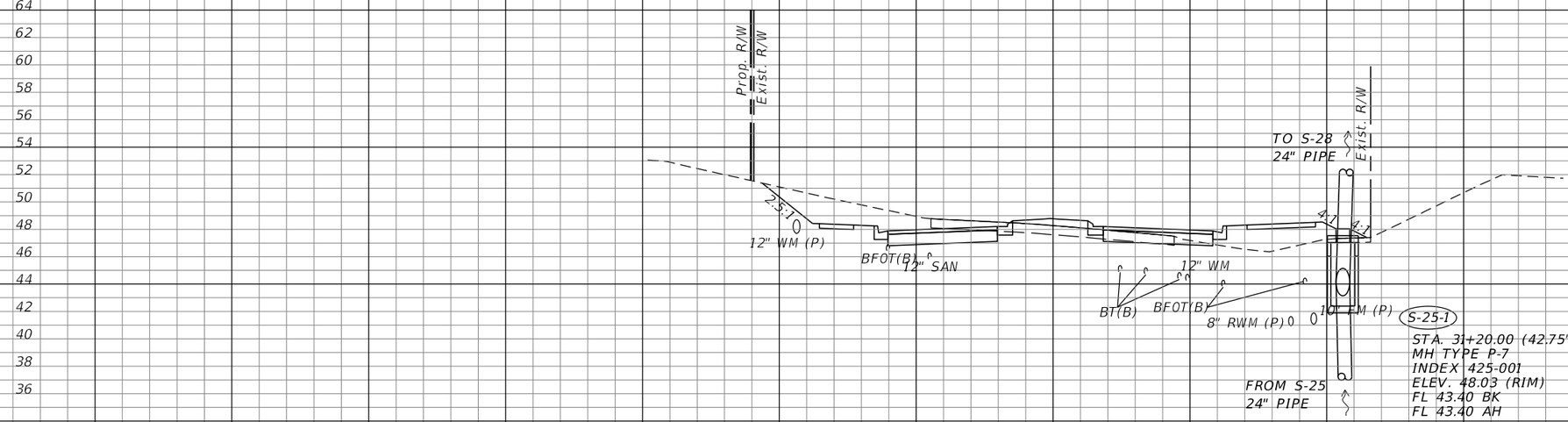
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 73





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
615 CRESCENT EXECUTIVE COURT, SUITE 106
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

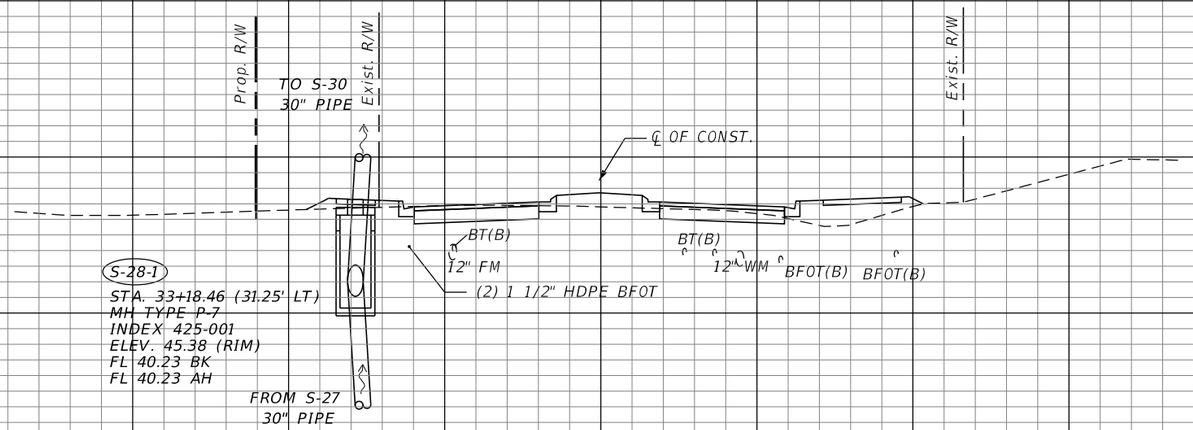
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	017853-0-3

DRAINAGE STRUCTURES

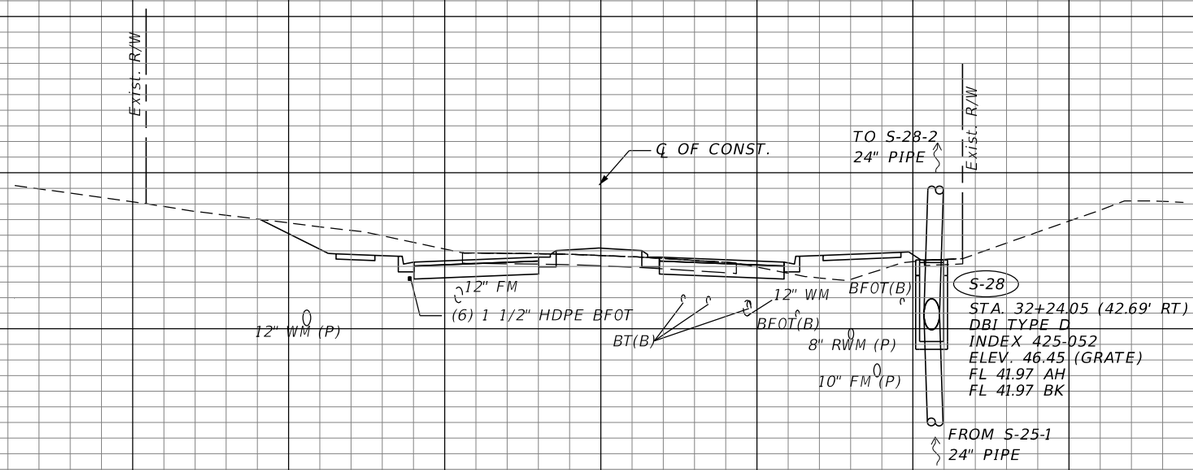
SHEET NO.
73A

$USER$ $DATE$ $TIME$ $MODELNAME$ $FILE$



S-28-1

33+18.46



S-28

32+24.05

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

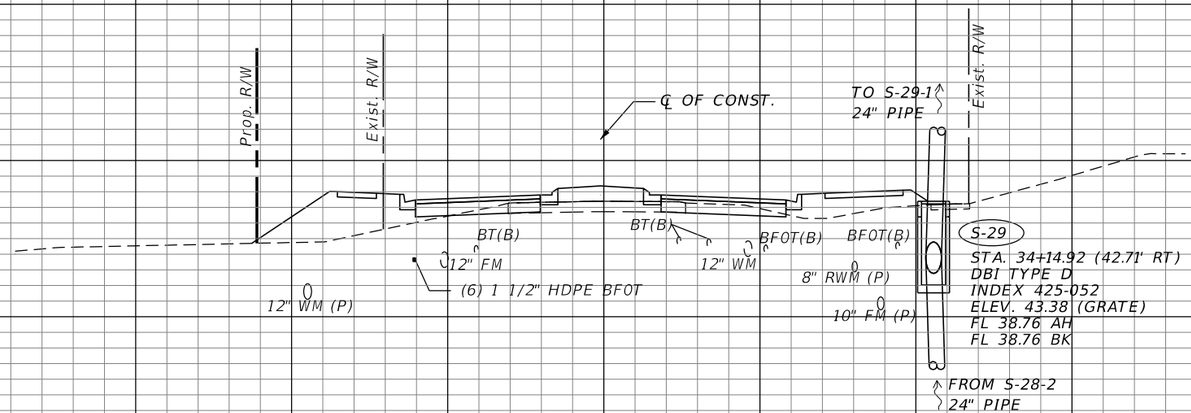
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 74



S-29

34+14.92

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

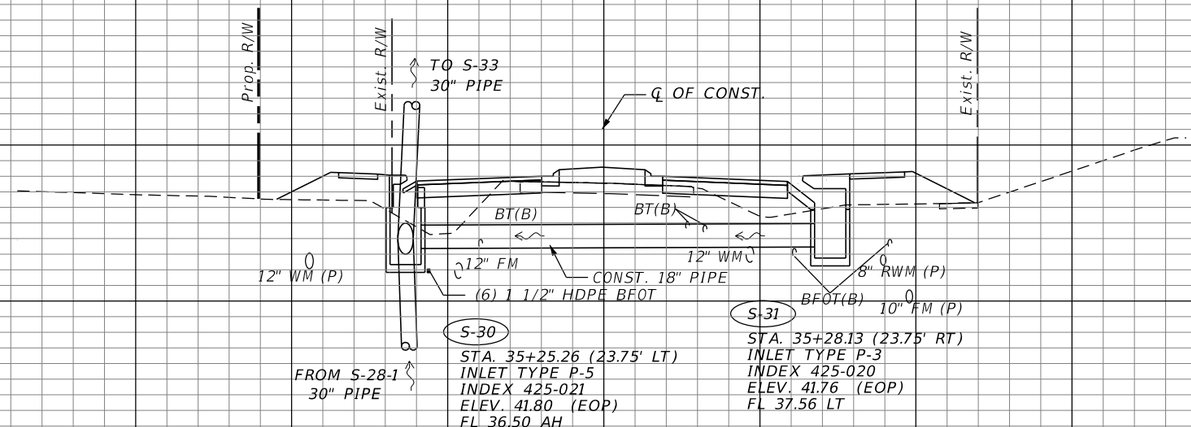
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
615 CRESCENT EXECUTIVE COURT, SUITE 106
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

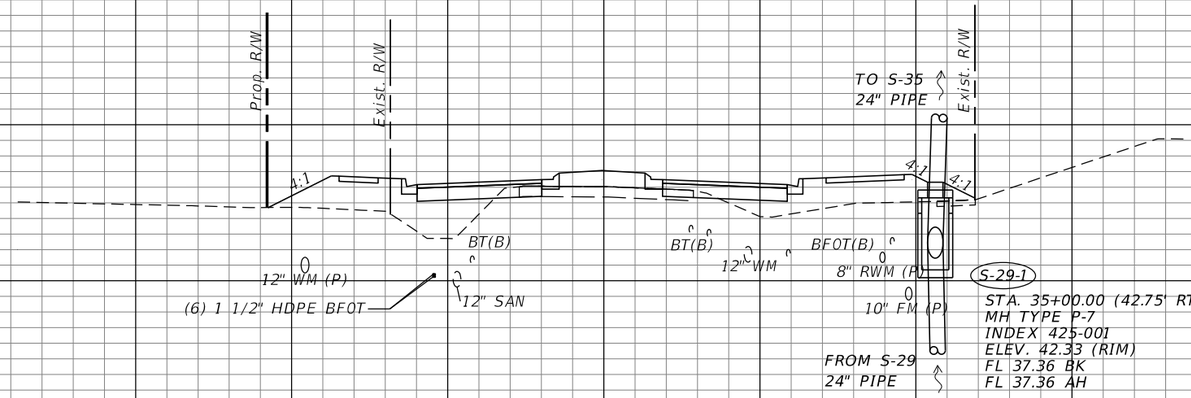
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	
	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 74A





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

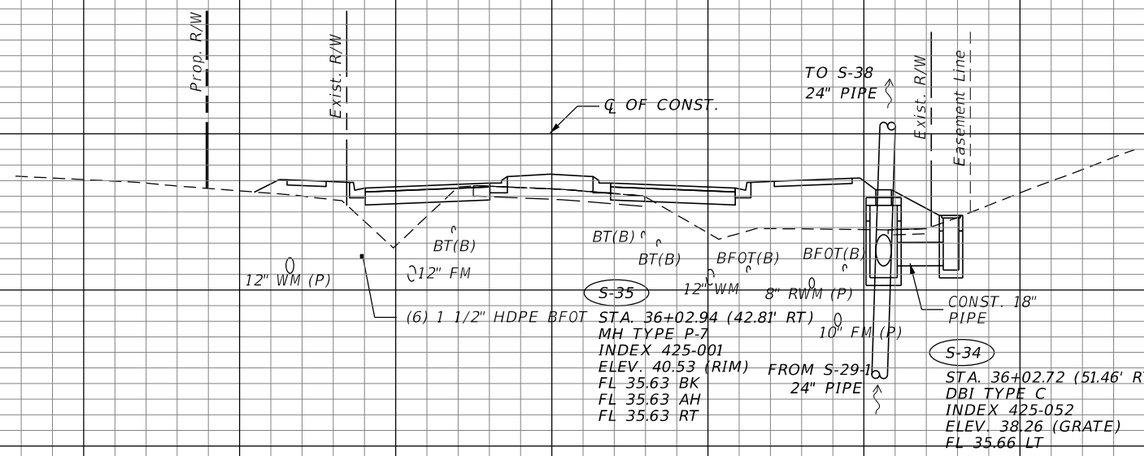
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 75

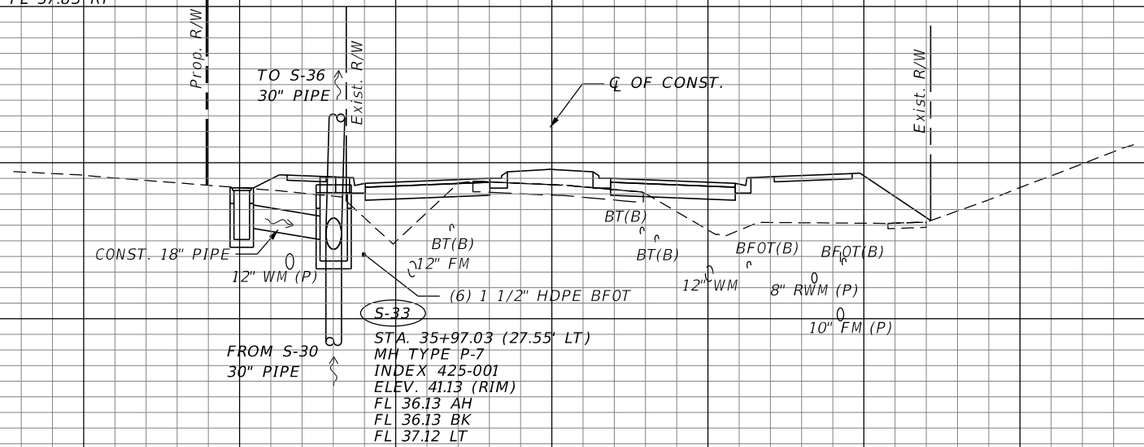


S-35
STA. 36+02.94 (42.81' RT)
MH TYPE P-7
INDEX 425-001
ELEV. 40.53 (RIM)
FL 35.63 BK
FL 35.63 AH
FL 35.63 RT

S-34
STA. 36+02.72 (51.46' RT)
DBI TYPE C
INDEX 425-052
ELEV. 38.26 (GRATE)
FL 35.66 LT

S-35
S-34
36+02.94

S-32
STA. 35+96.65 (39.56' LT)
DBI TYPE C
INDEX 425-052
ELEV. 40.43 (GRATE)
FL 37.83 RT



S-33
STA. 35+97.03 (27.55' LT)
MH TYPE P-7
INDEX 425-001
ELEV. 41.13 (RIM)
FL 36.13 AH
FL 36.13 BK
FL 37.12 LT

S-33
S-32
35+97.03

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

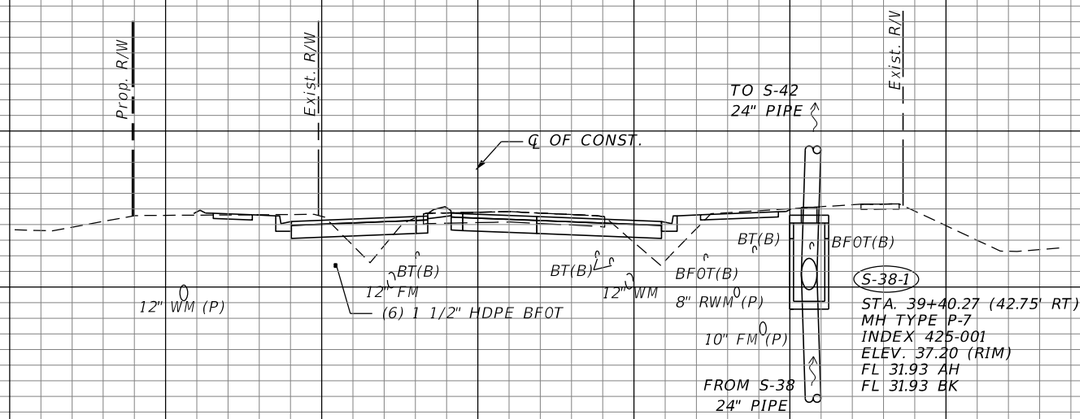
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

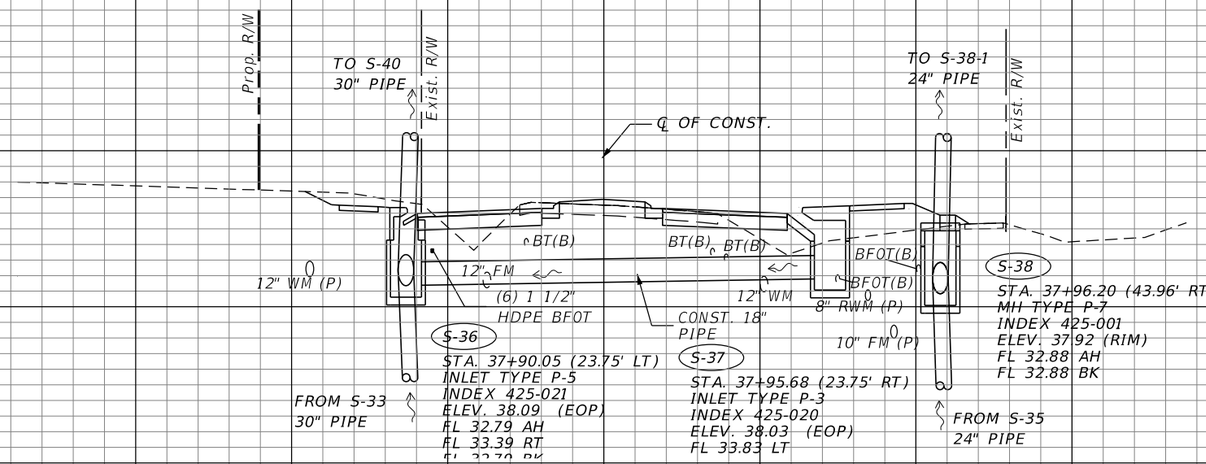
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 76





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

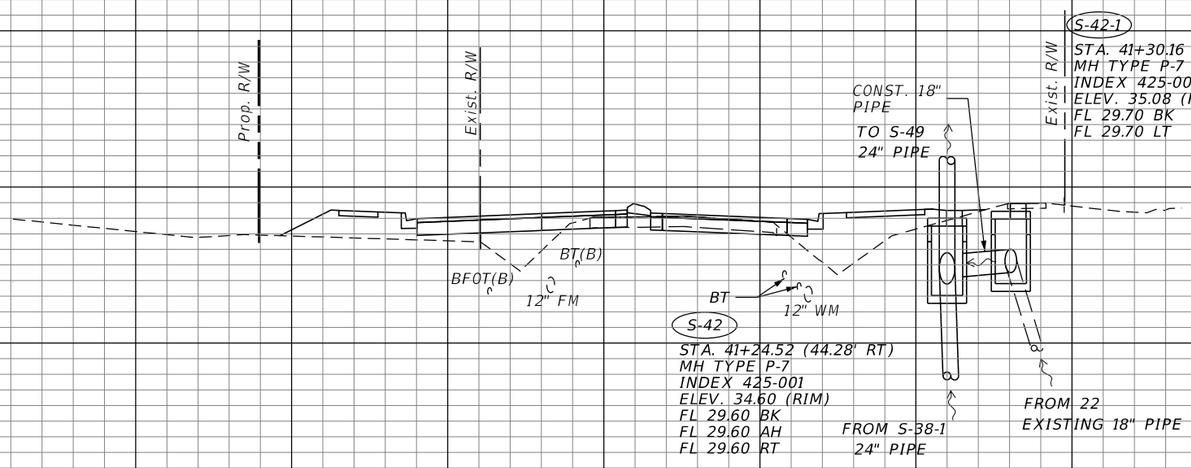
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

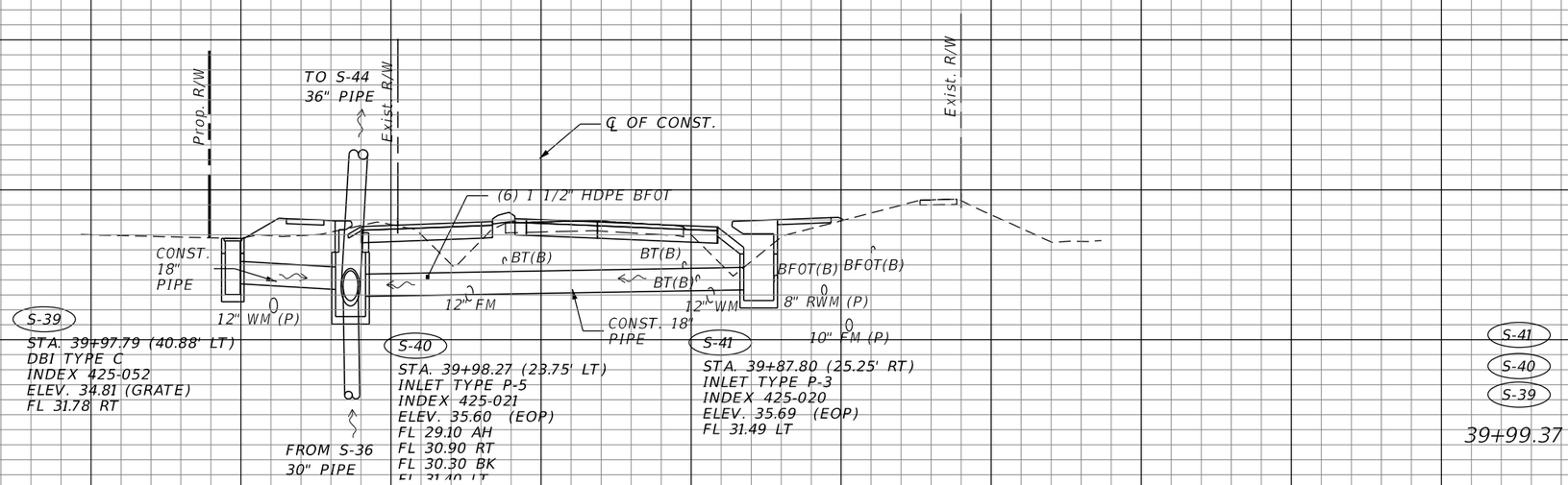
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 77





1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

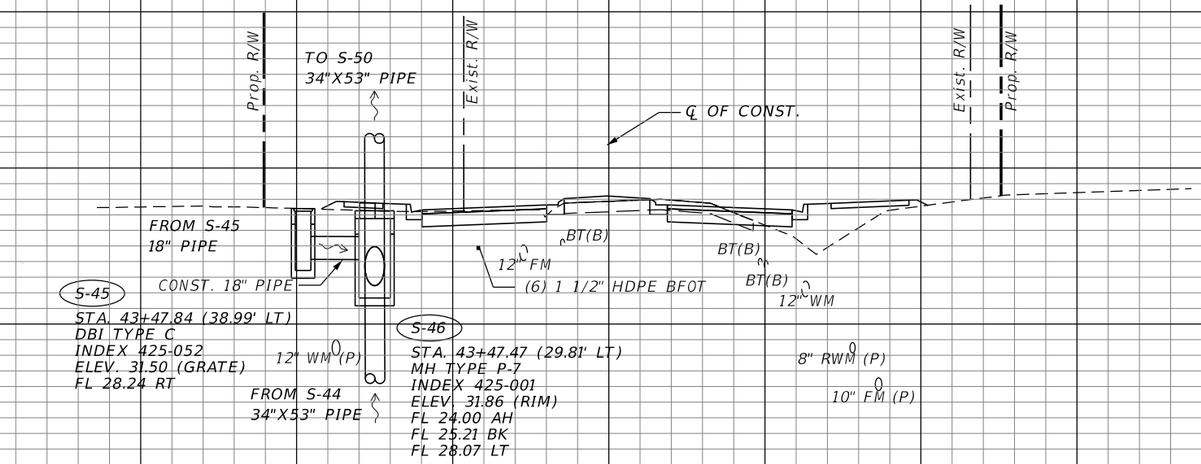
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

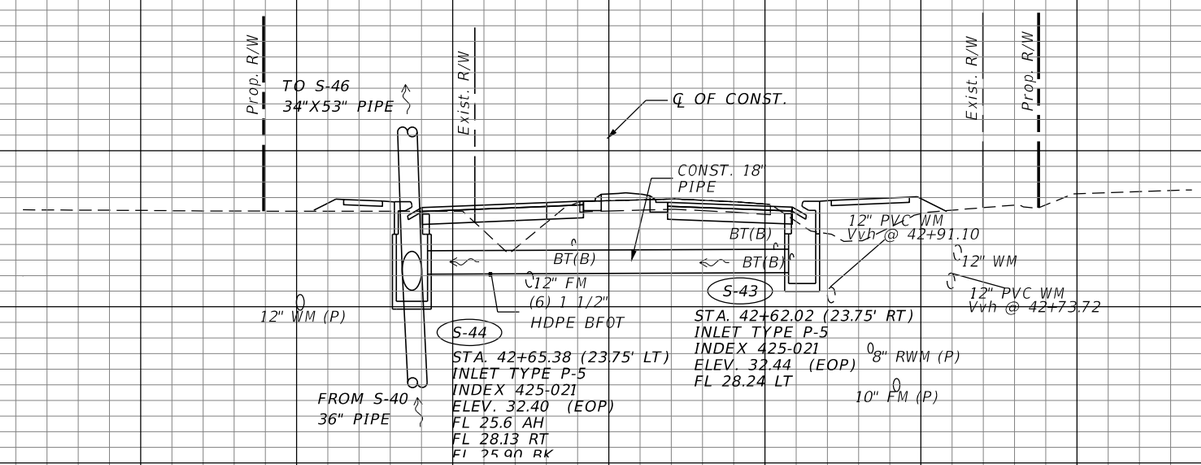
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 78





1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

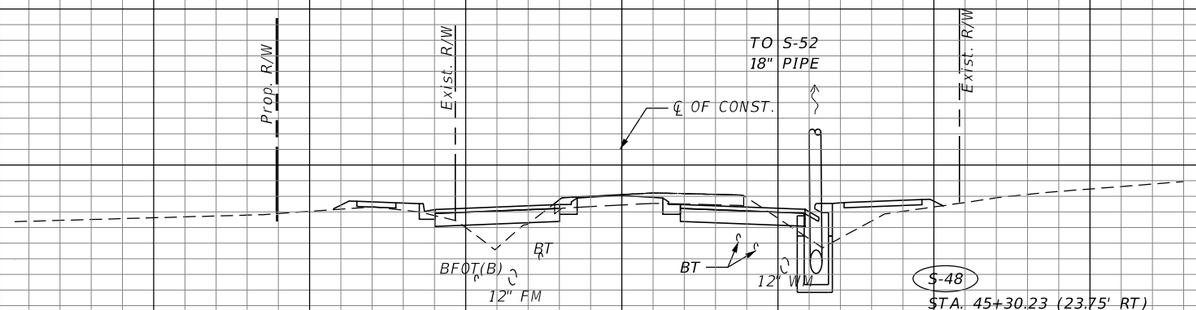
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

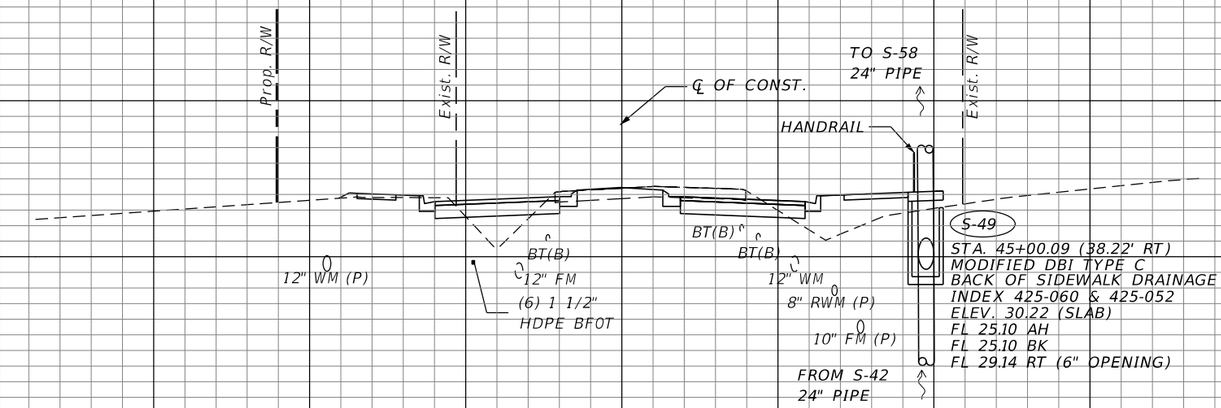
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 79





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

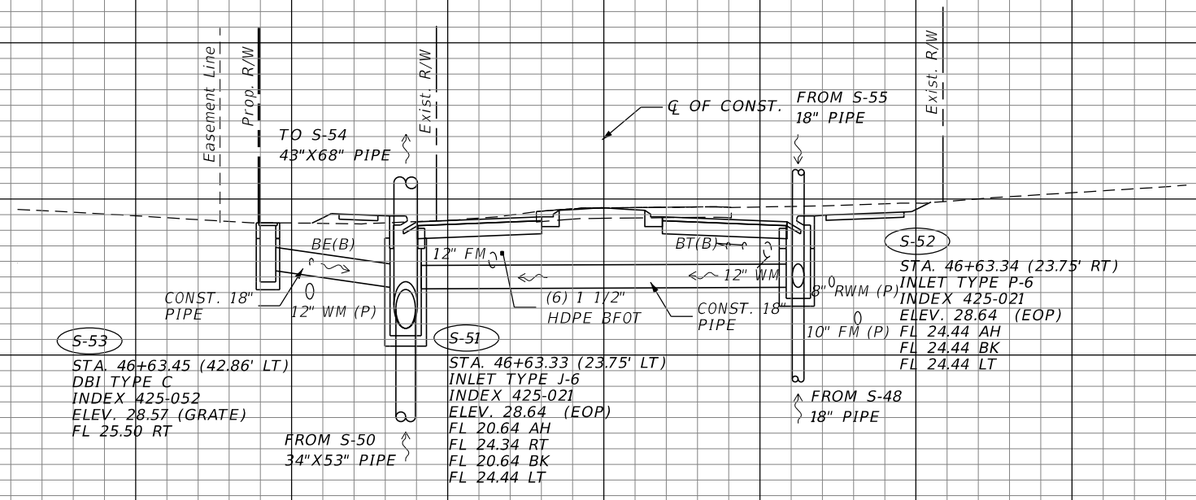
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

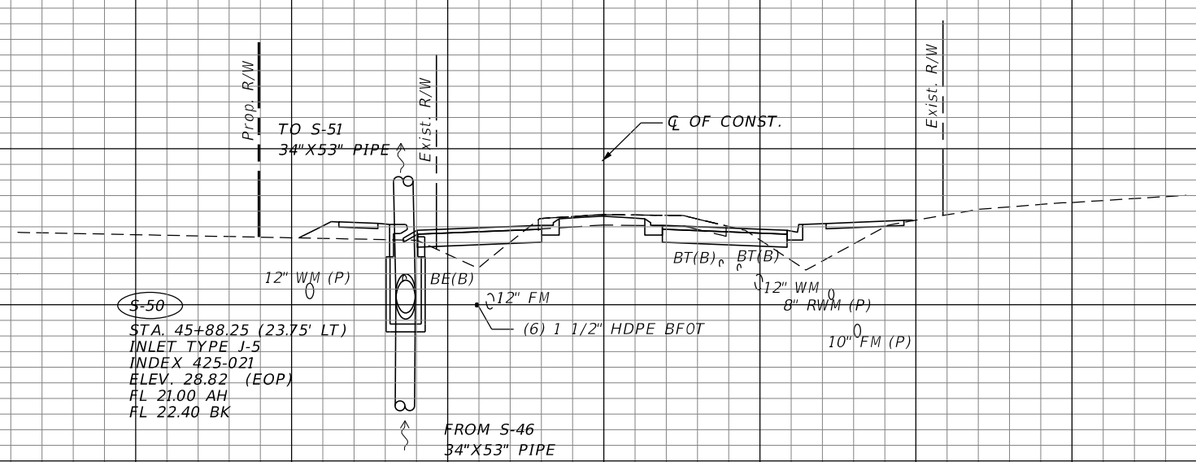
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 80





1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

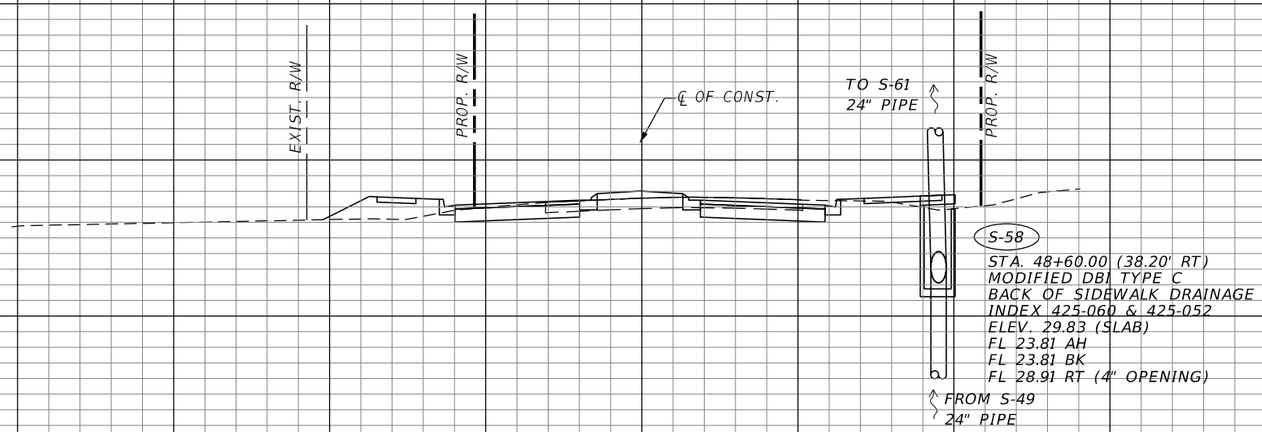
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

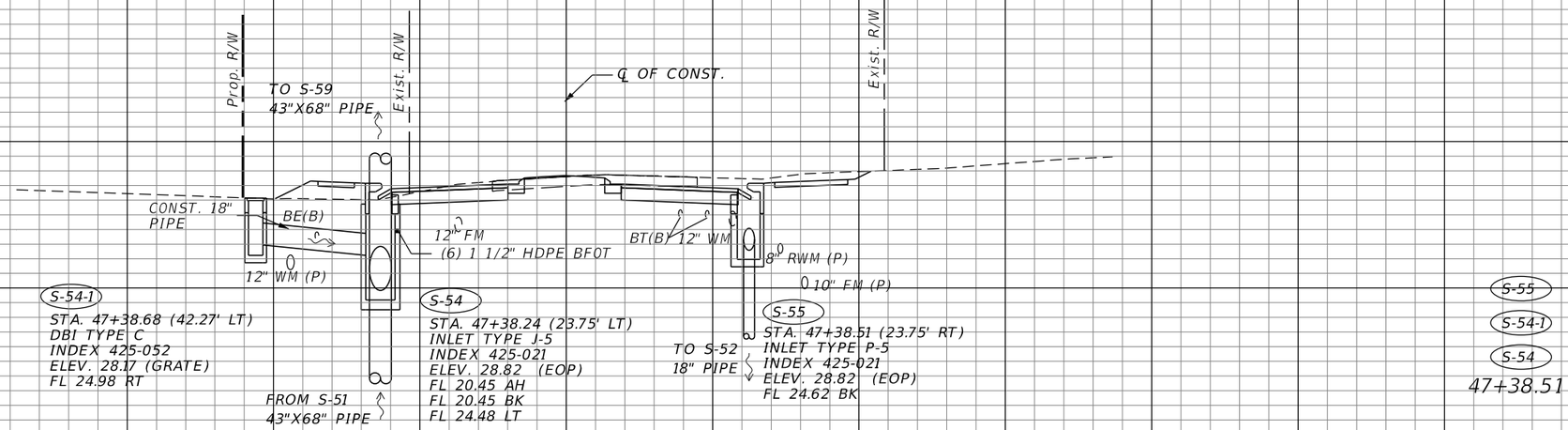
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 81





1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

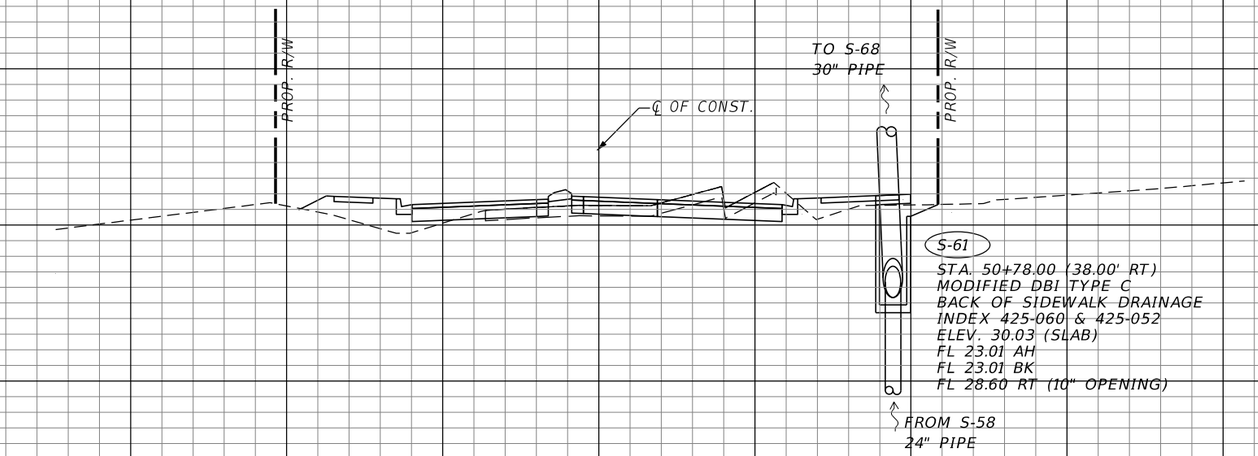
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

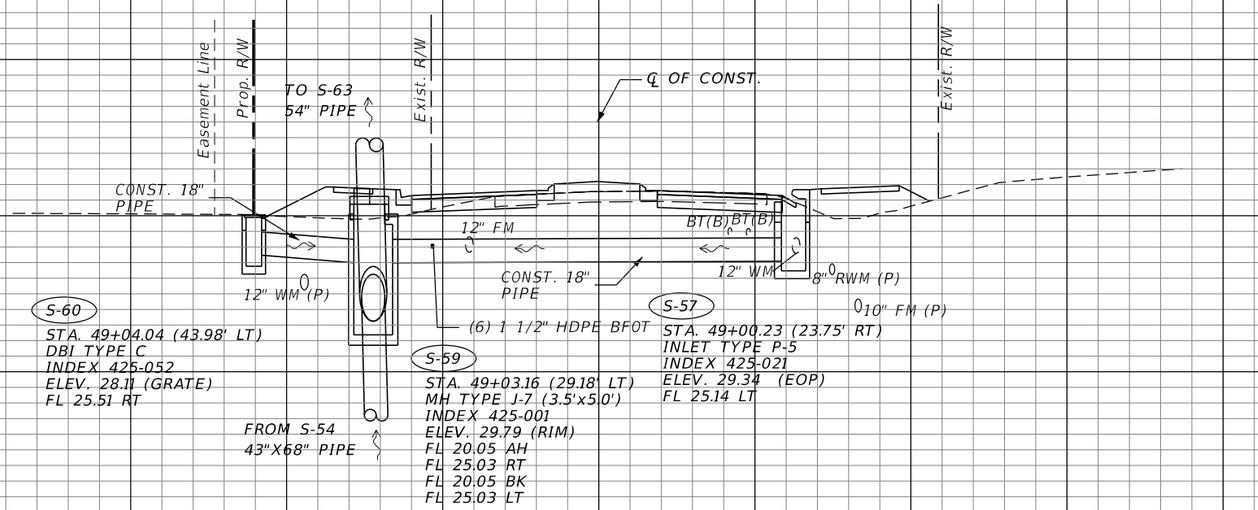
DRAINAGE STRUCTURES

SHEET NO. 82



S-61

50+78.00



S-60
S-59
S-57

49+01.70

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

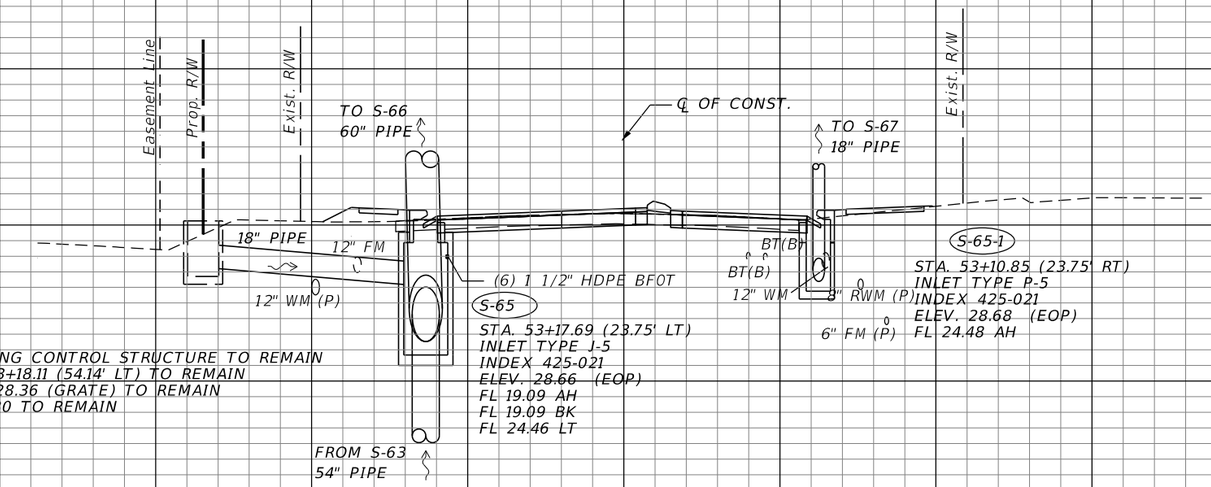
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

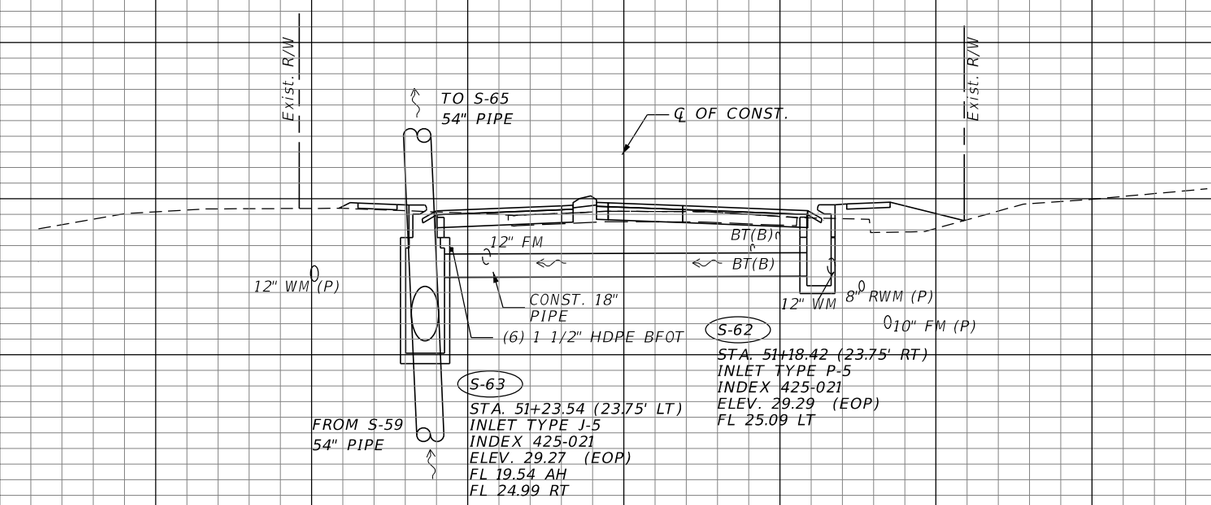
DRAINAGE STRUCTURES

SHEET NO. 83



S-65-1
S-65

53+10.85



S-63
S-62

51+20.98

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

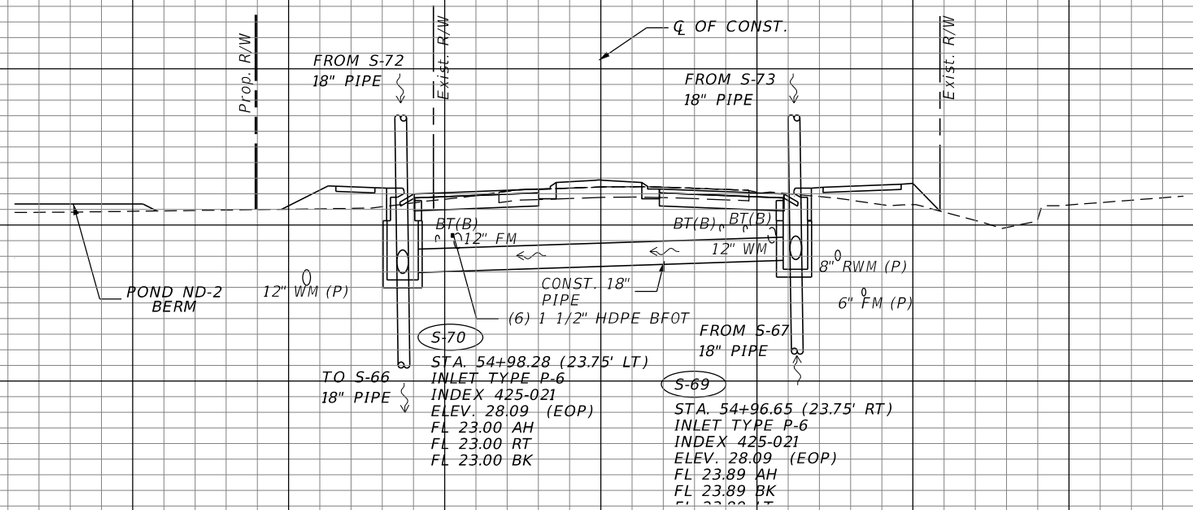
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

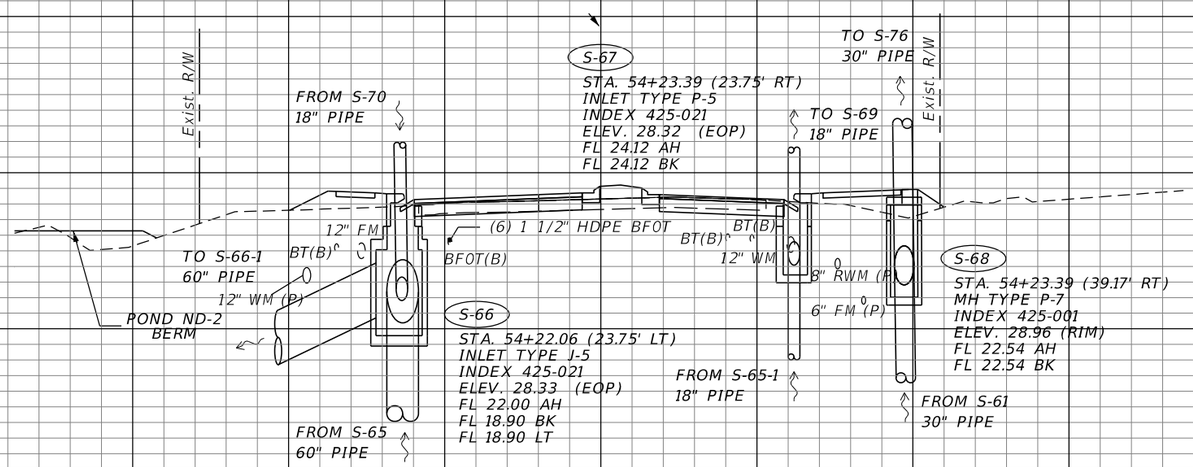
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 84





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

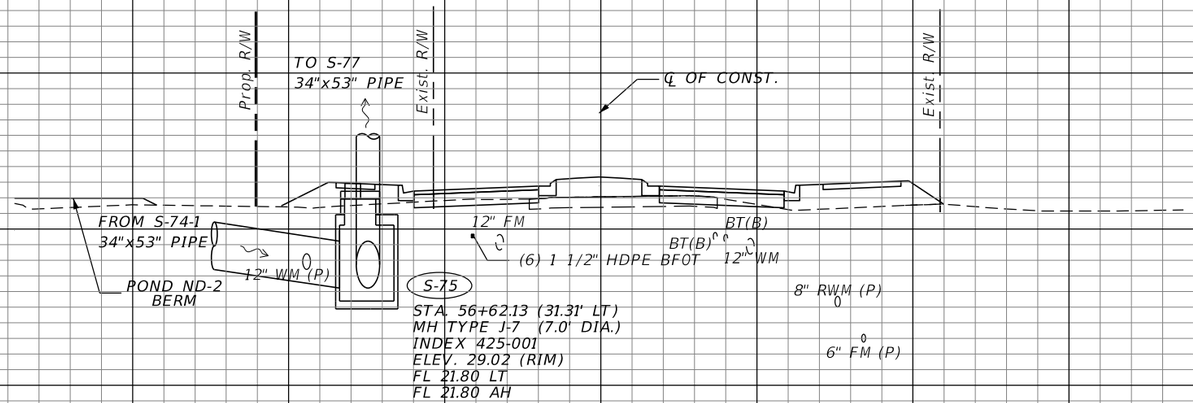
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

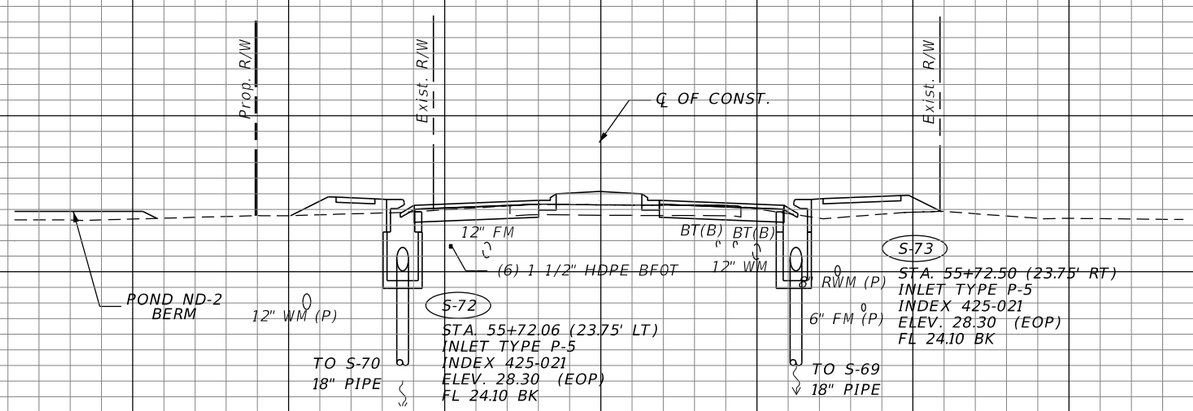
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 85





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

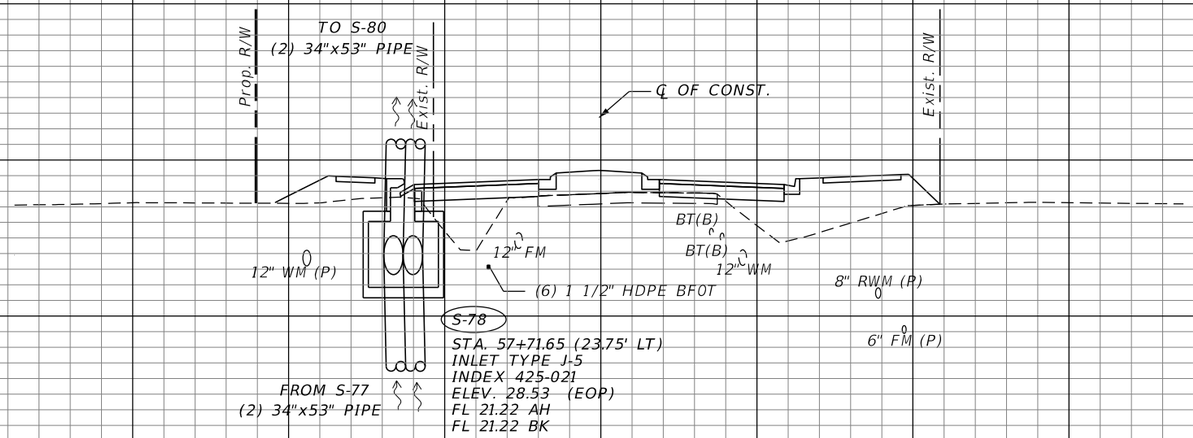
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

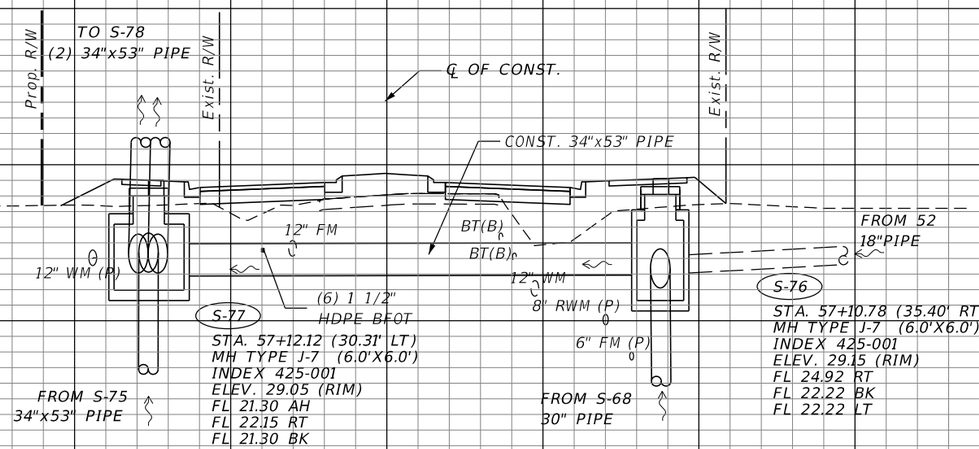
DRAINAGE STRUCTURES

SHEET NO. 86



S-78

57+71.65



S-77
S-76

57+11.54

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

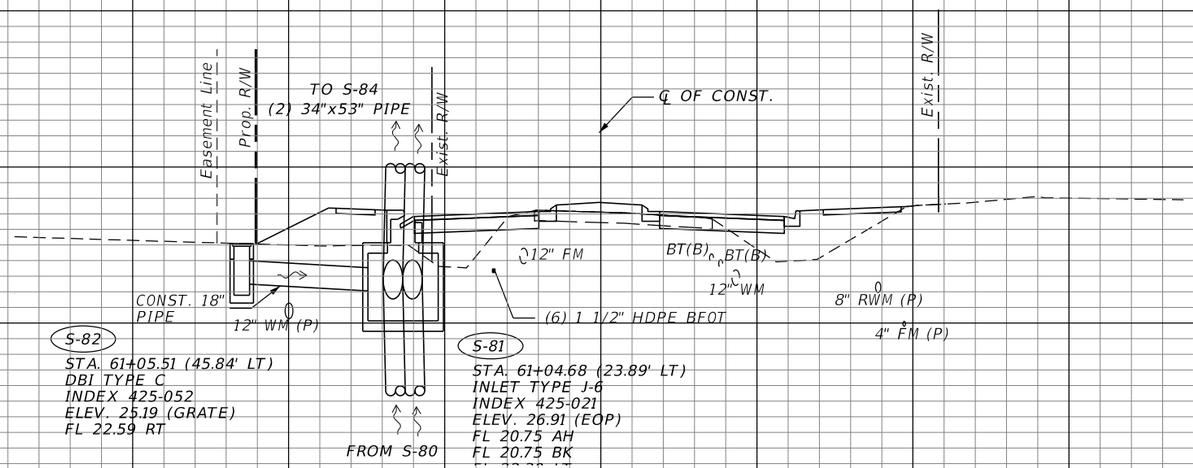
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

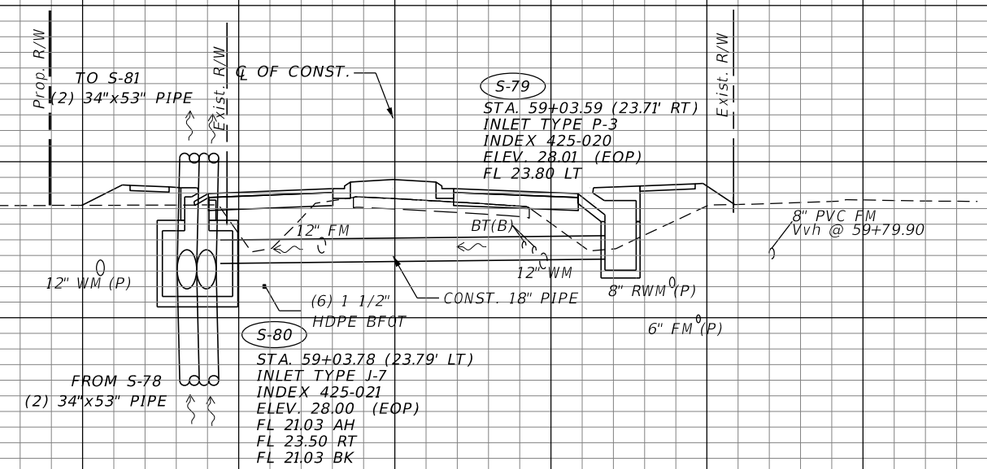
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 87





1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
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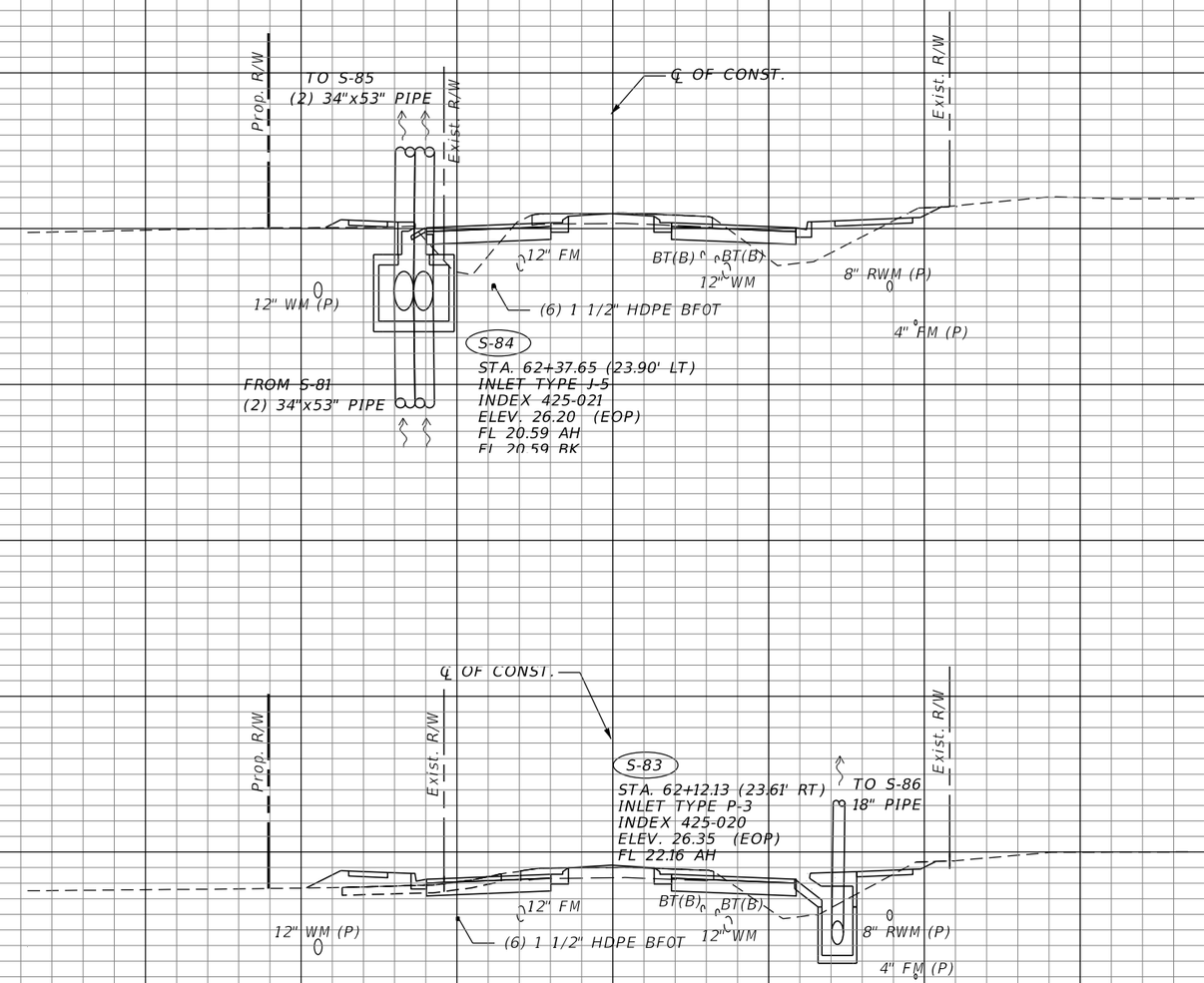
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 88



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

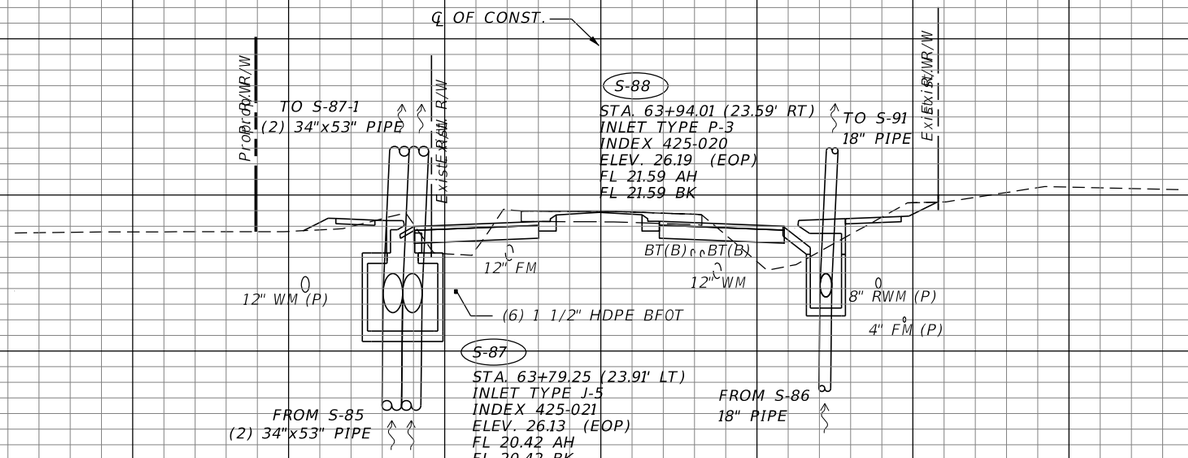
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

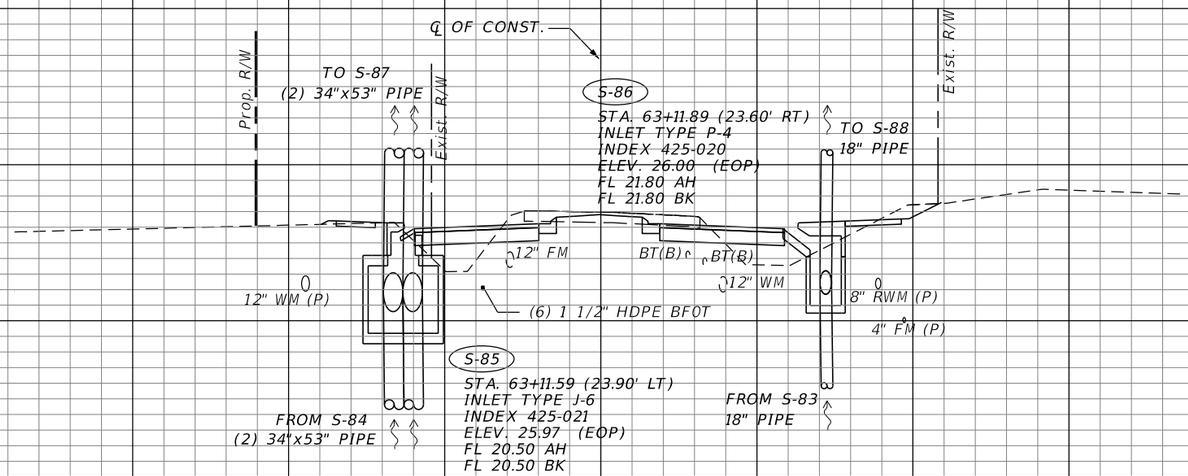
DRAINAGE STRUCTURES

SHEET NO. 89



S-88
S-87

63+80.37



S-86
S-85

63+11.59

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

REVISIONS			
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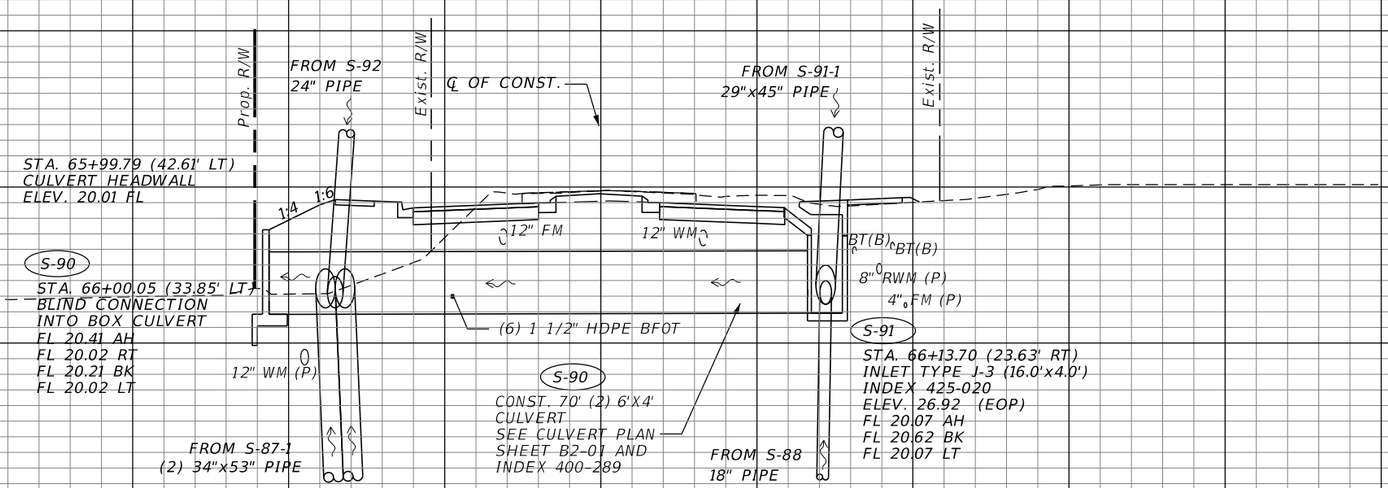
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
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CERTIFICATE OF AUTHORIZATION NO.: 5917

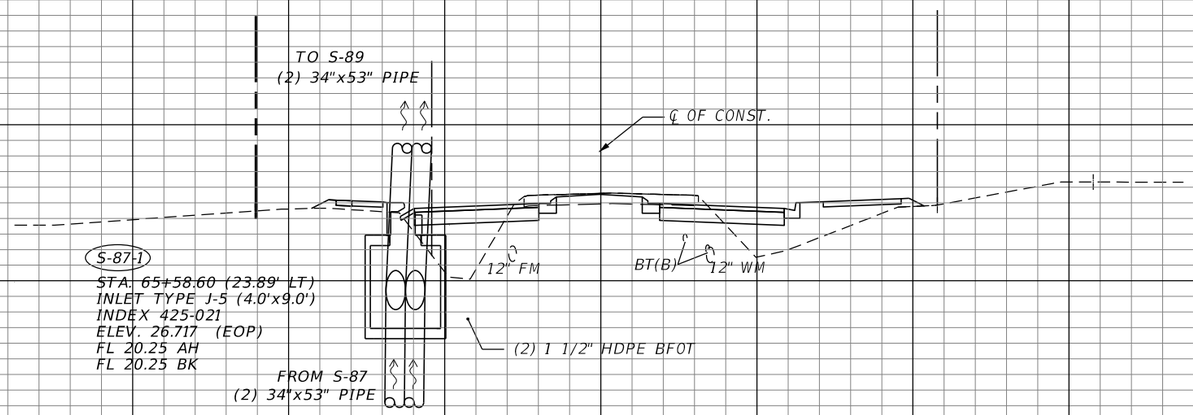
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 90





38 36 34 32 30 28 26 24 22 20 18 16 14 12 10 8

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

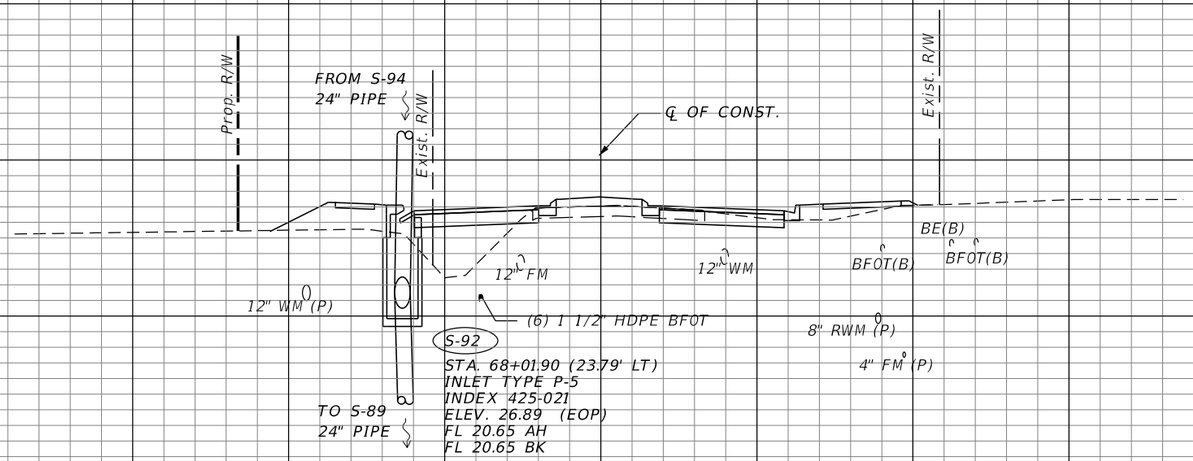
STEVEN D. COLLINS, P.E., Ph.D
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CERTIFICATE OF AUTHORIZATION NO.: 5917

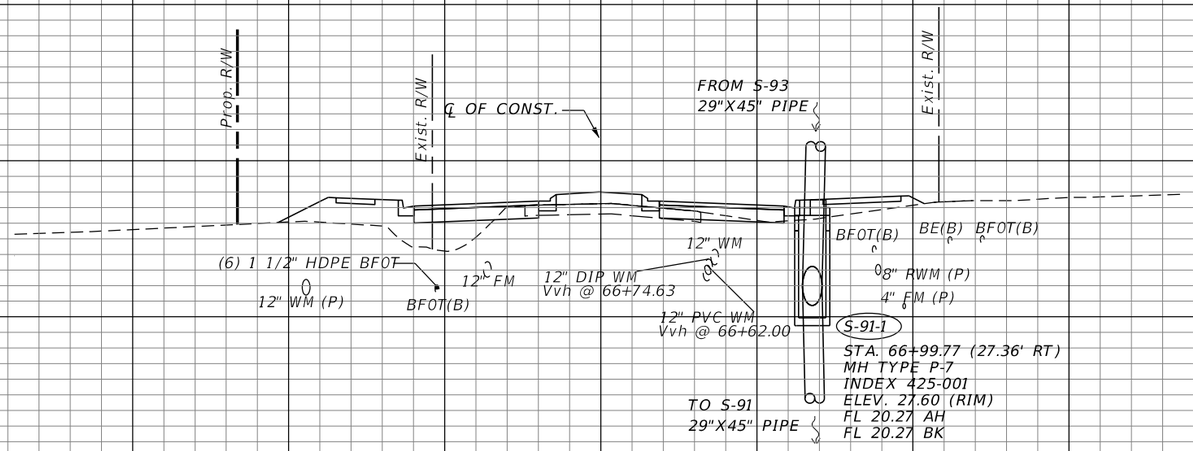
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 91





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

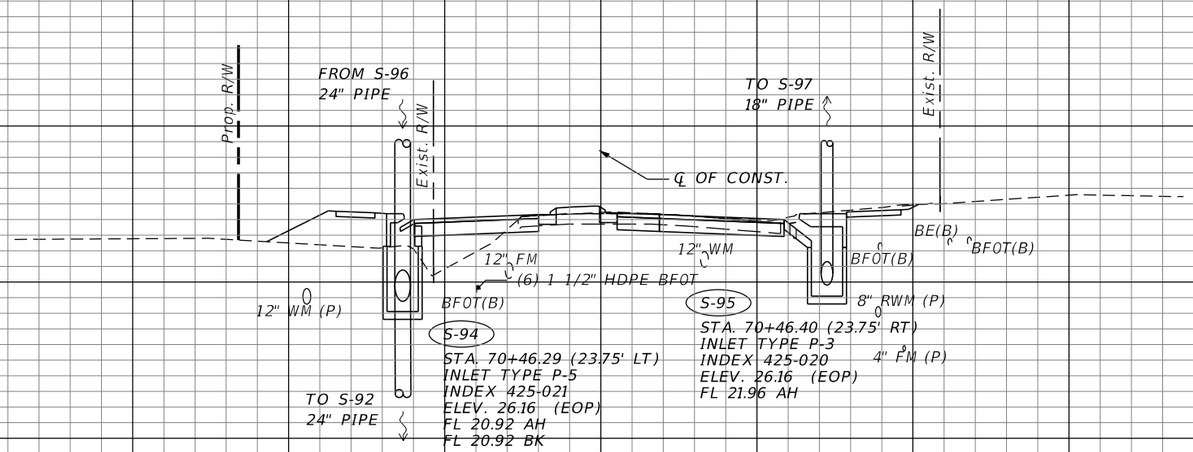
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

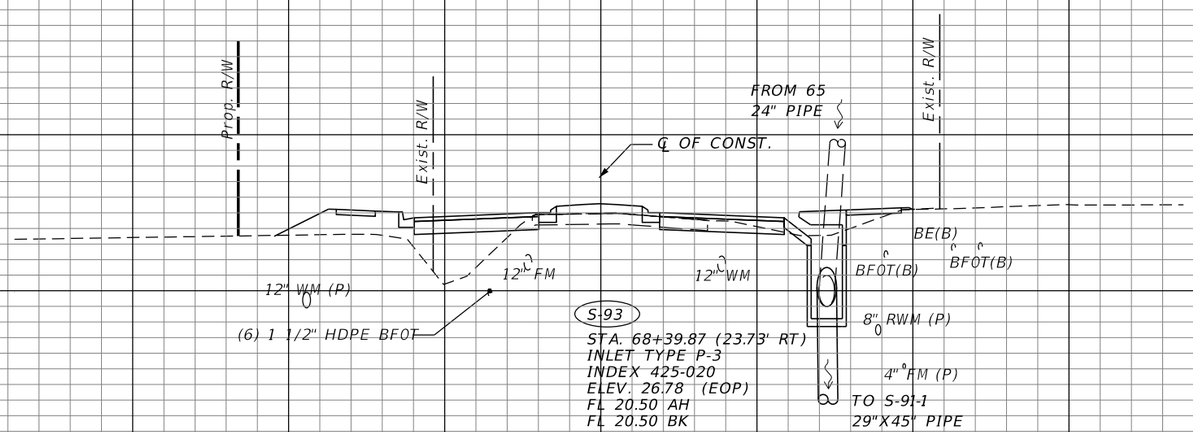
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 92





38 36 34 32 30 28 26 24 22 20 18 16 14 12

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

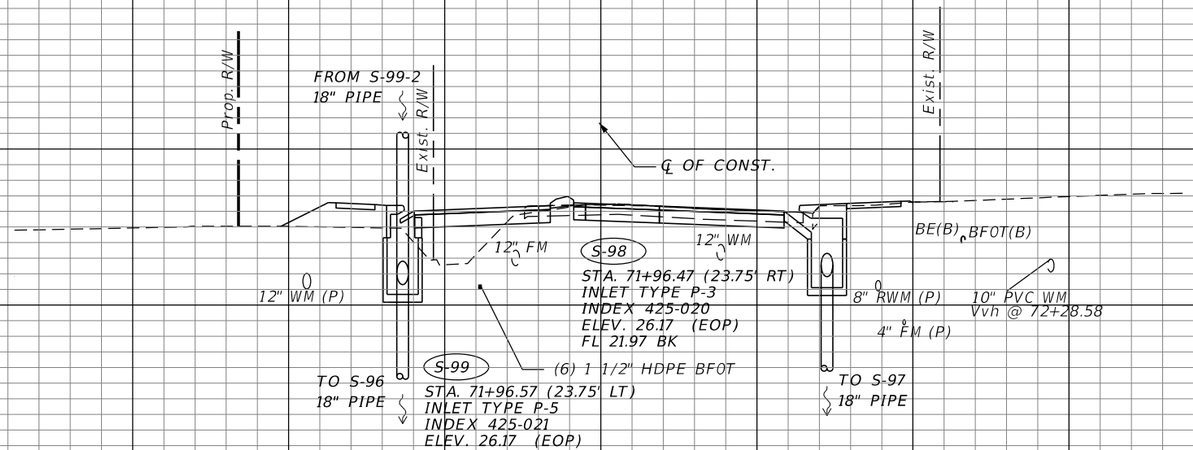
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

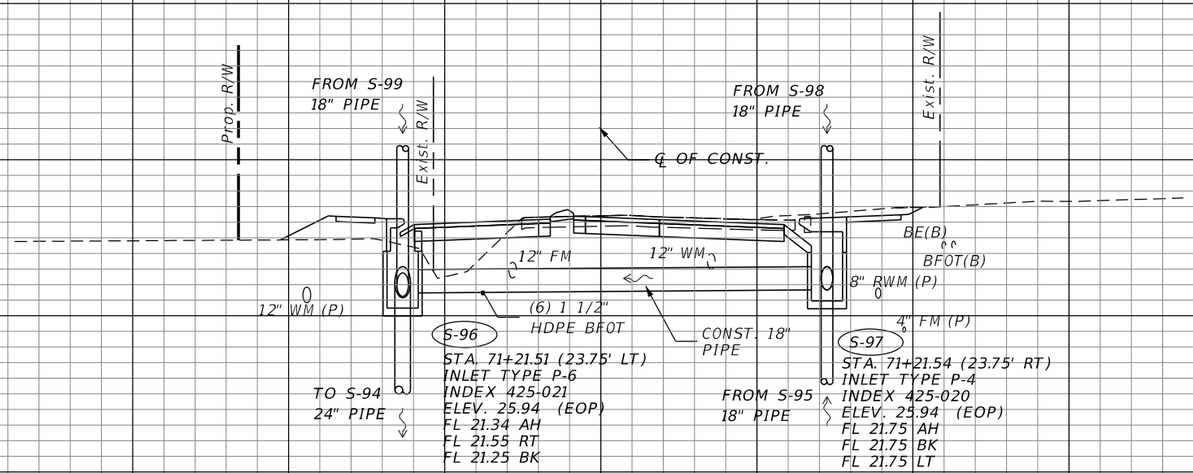
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 93





38 36 34 32 30 28 26 24 22 20 18 16 14 12

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

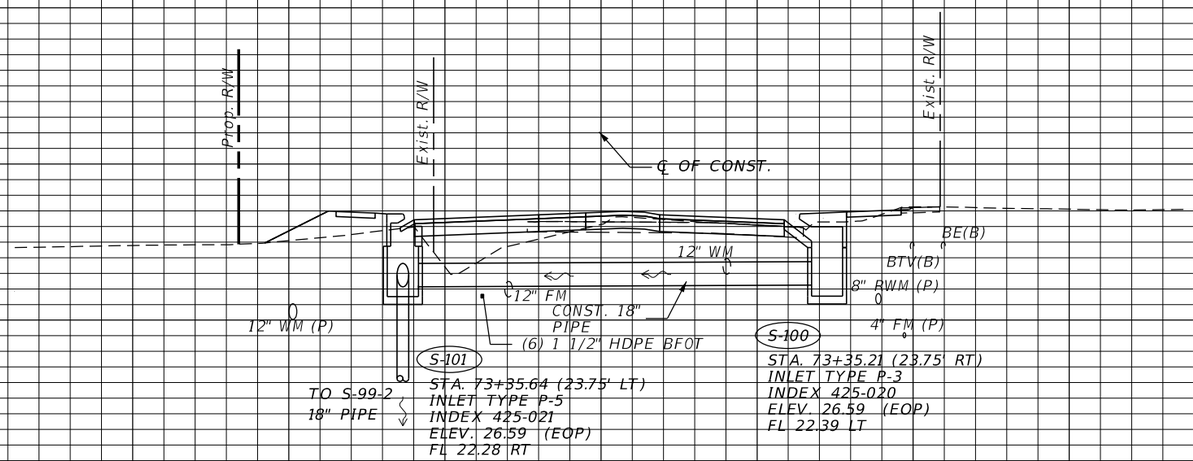
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

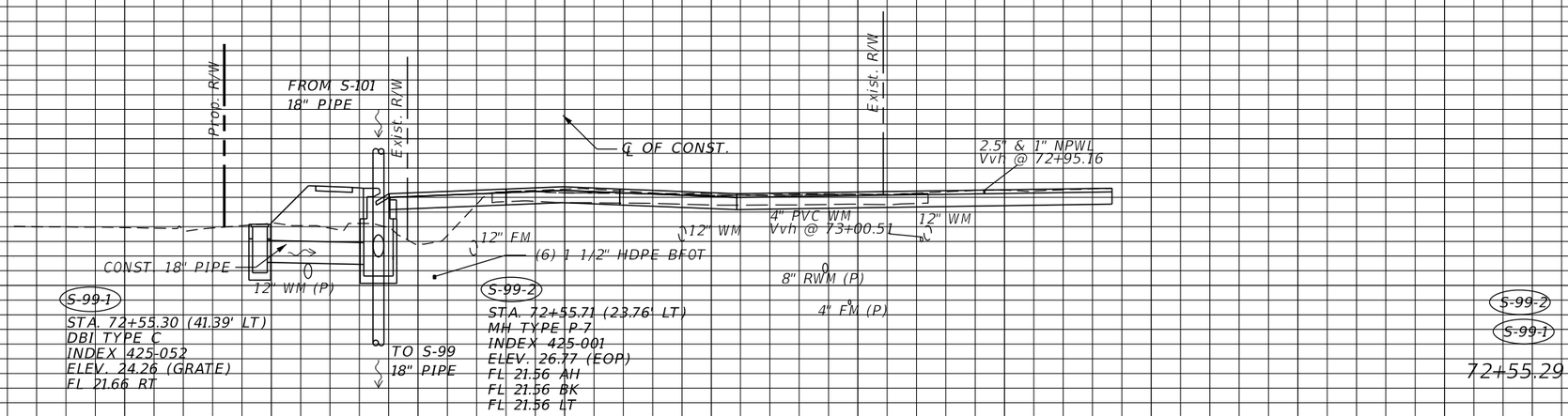
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 94





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

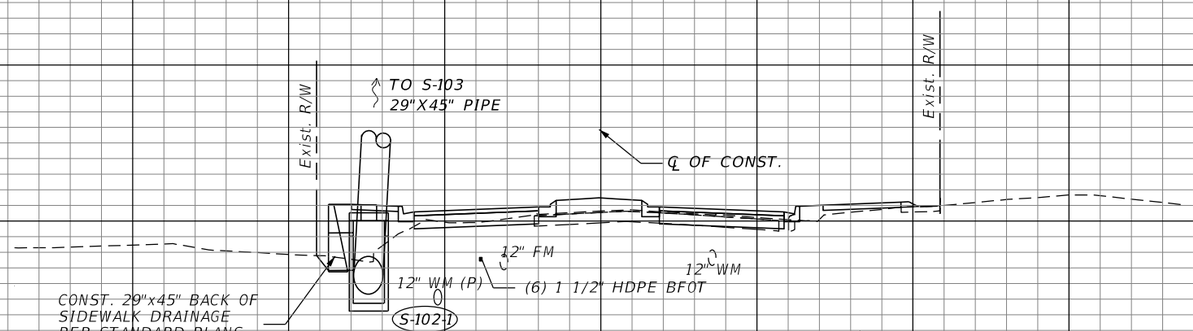
SEMINOLE COUNTY PUBLIC WORKS

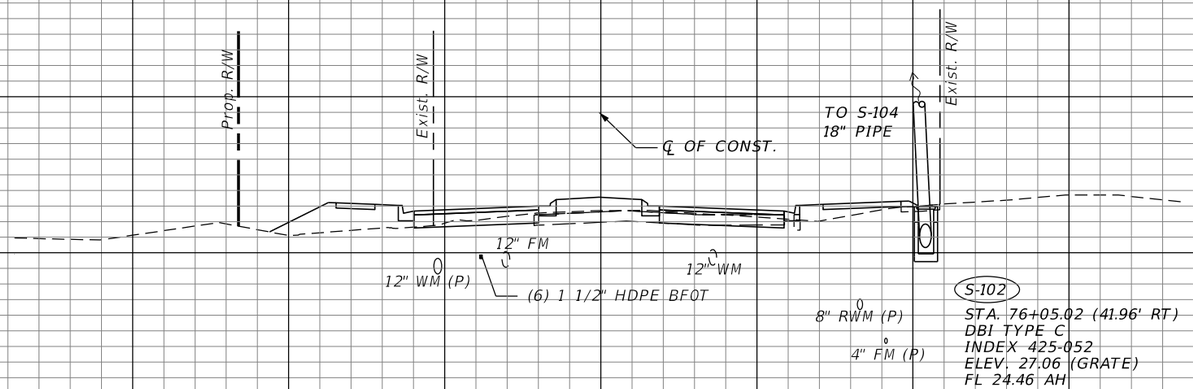
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 95

$USER$ $DATE$ $TIME$ $MODELNAME$ $FILE$





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

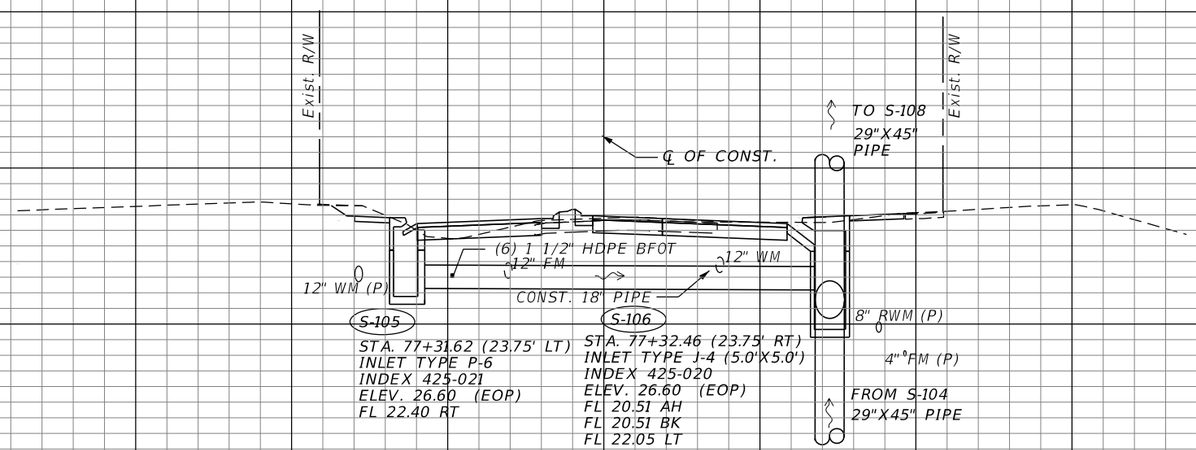
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

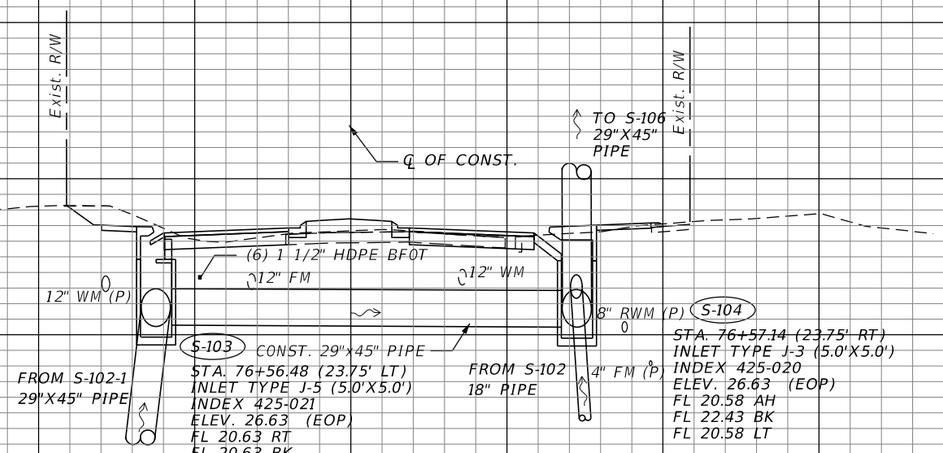
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 96



77+32.04



76+57.14

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

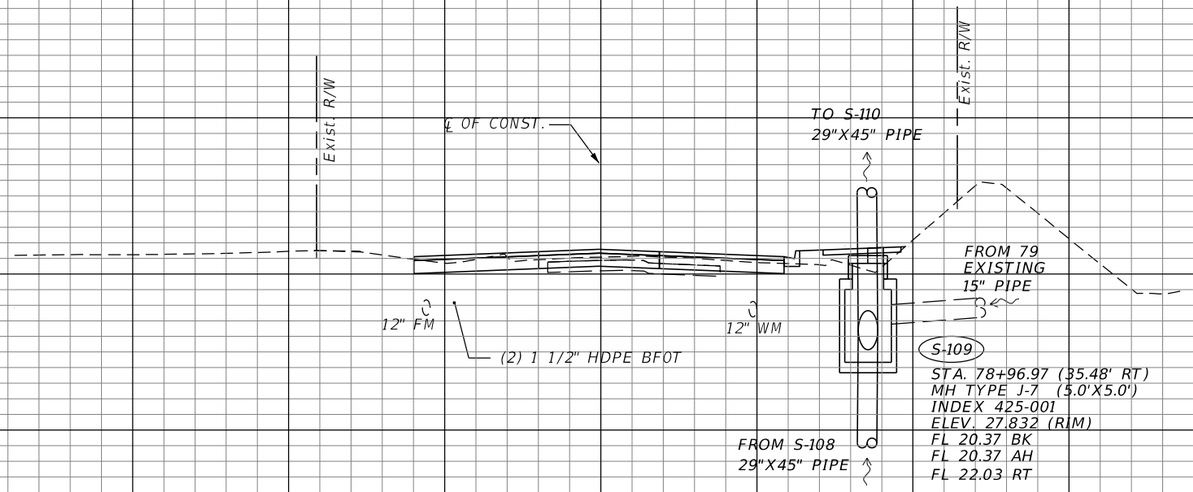
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

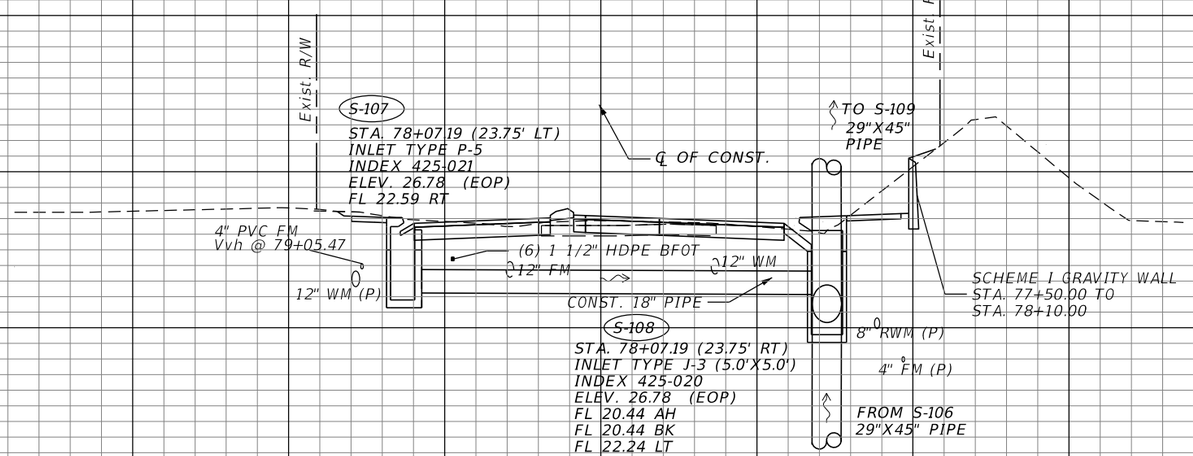
DRAINAGE STRUCTURES

SHEET NO. 97



S-109

78+96.97



S-108

S-107

78+07.19

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

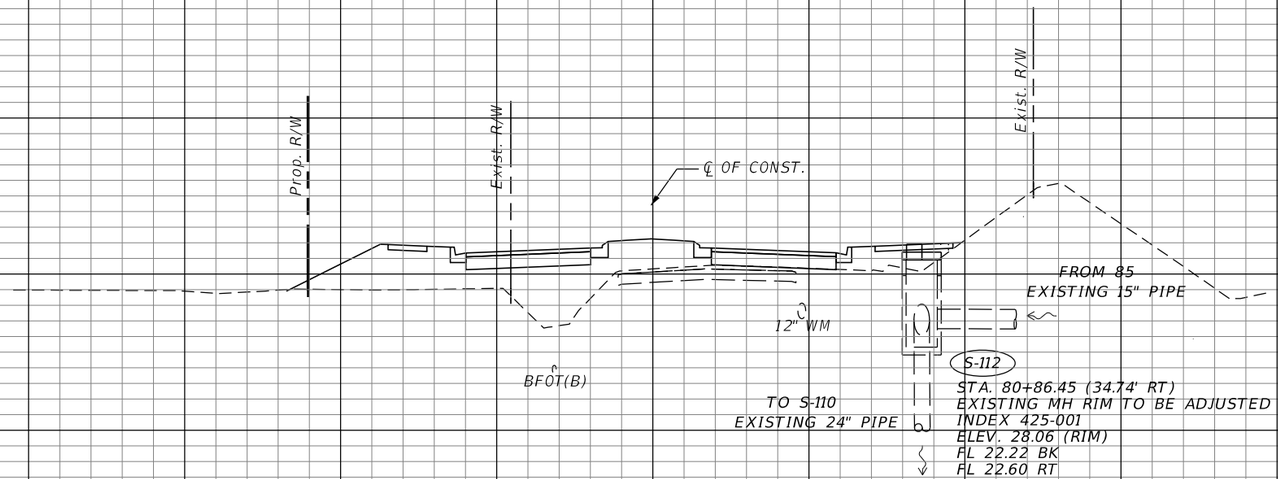
STEVEN D. COLLINS, P.E., Ph.D
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JMT - JOHNSON, MIRMIRAN & THOMPSON
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LAKE MARY, FL 32746
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 98



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

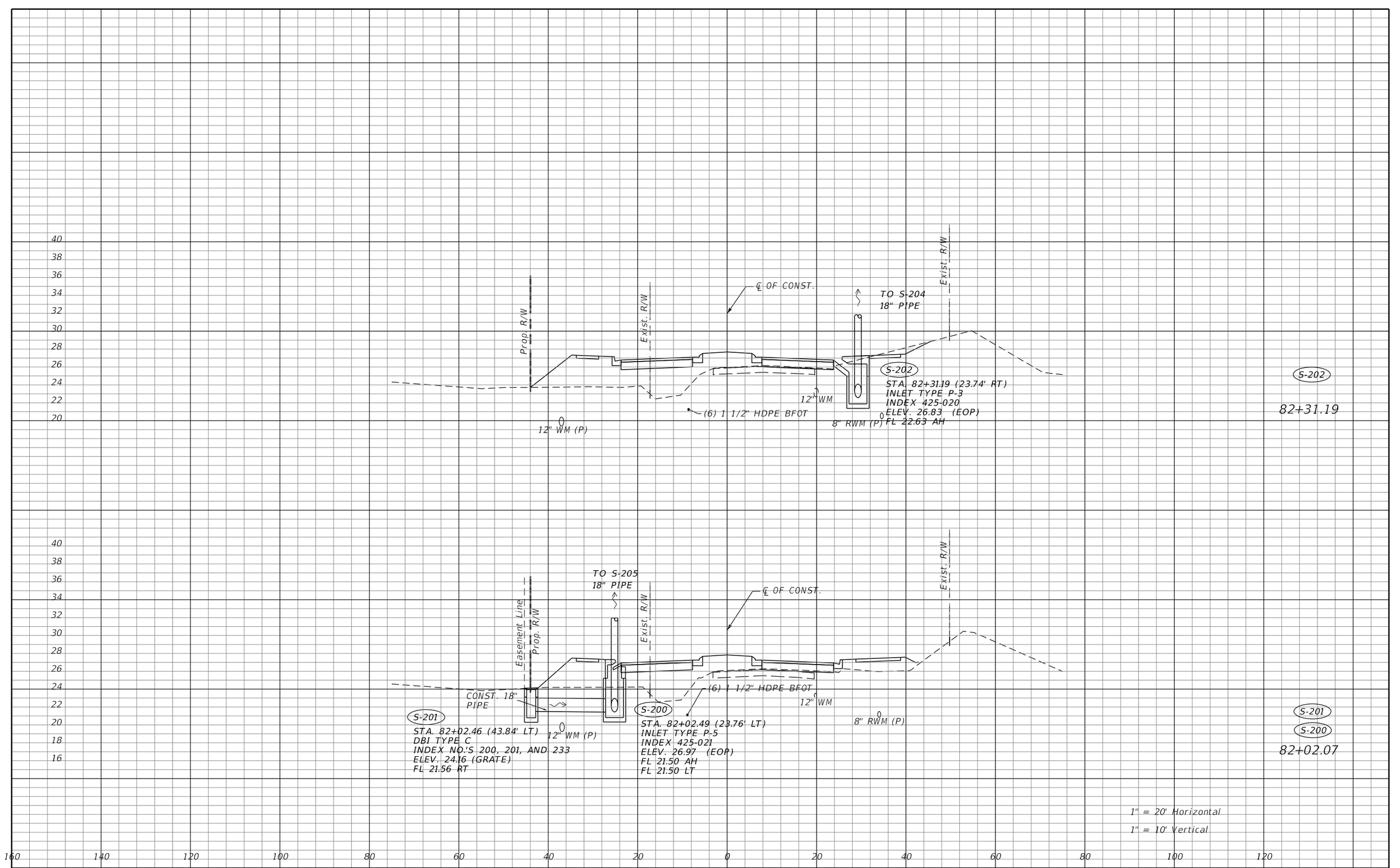
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 99



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

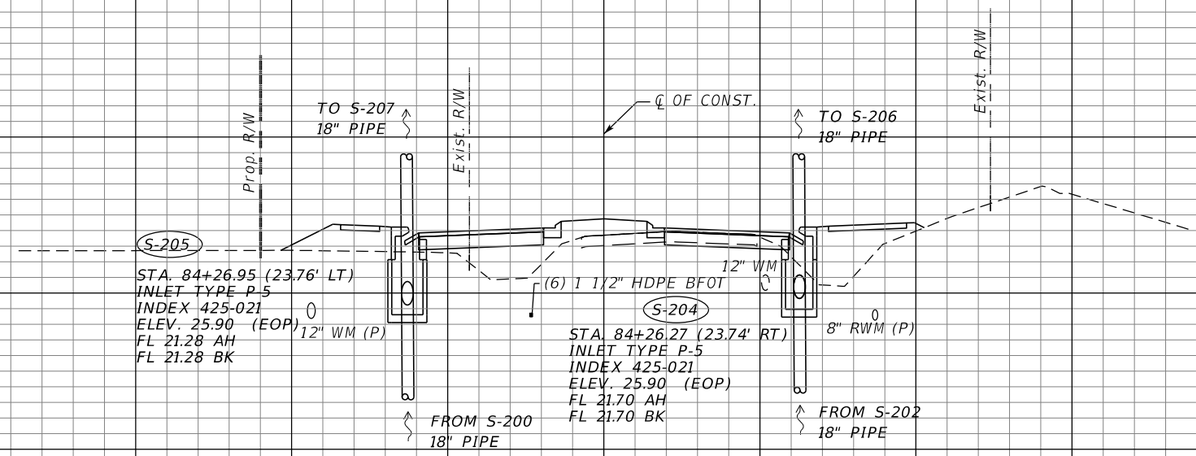
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

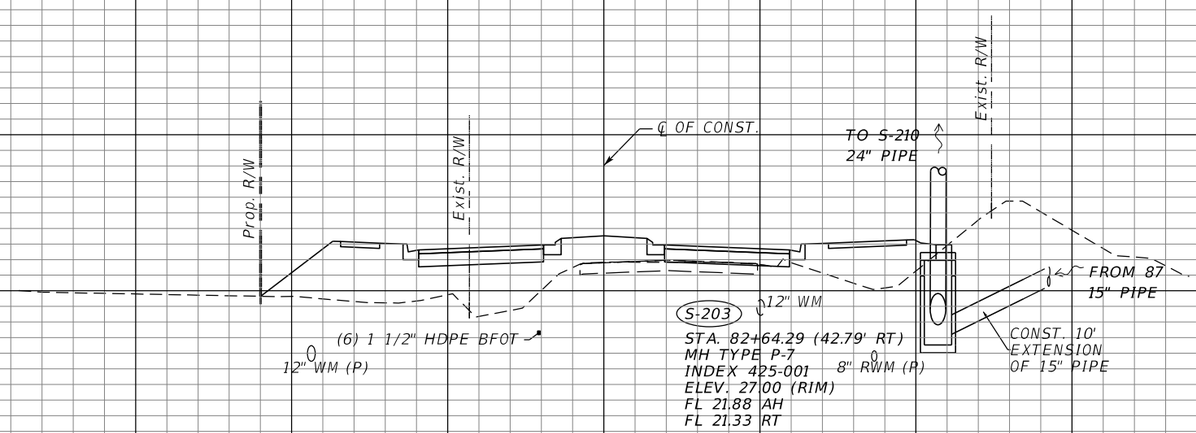
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 100



S-205
S-204
84+26.61



S-203
82+64.29

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

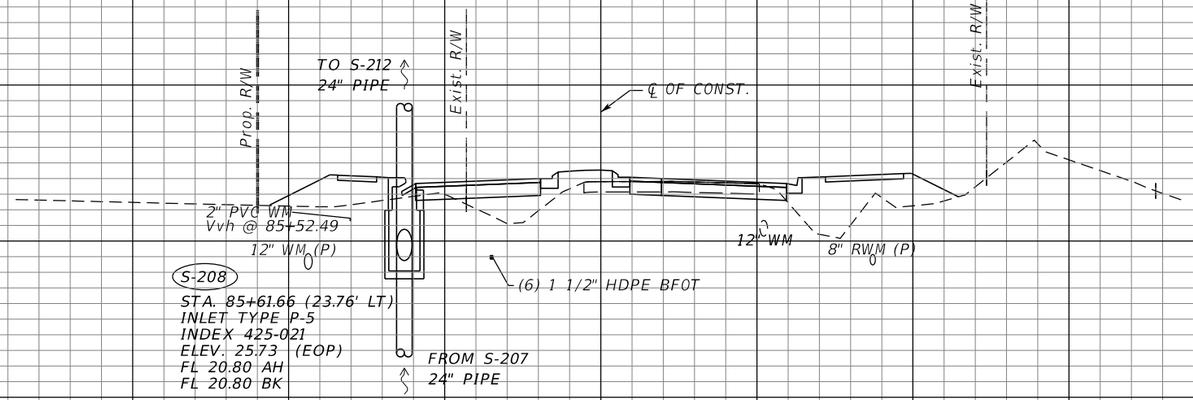
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
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SEMINOLE COUNTY PUBLIC WORKS

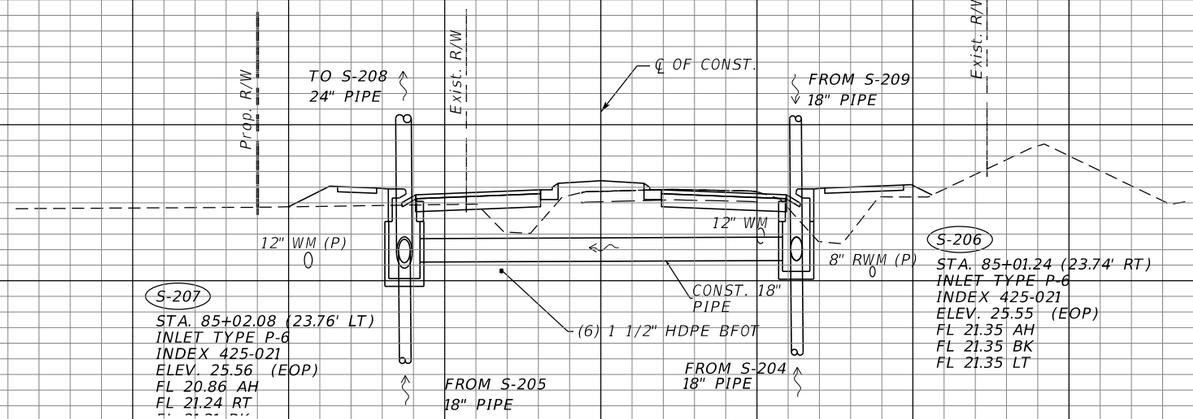
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 101



S-208
85+61.66



S-207
S-206
85+01.66

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

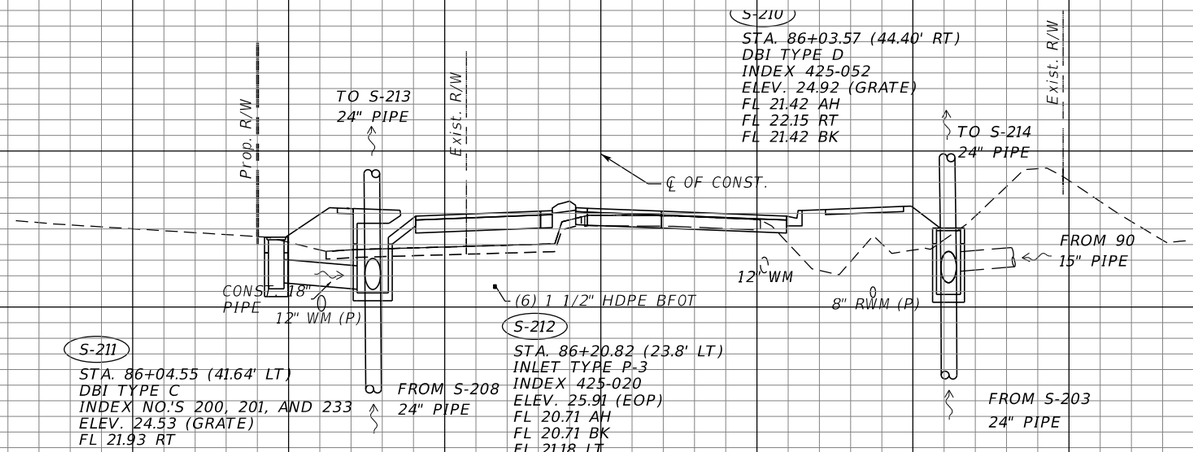
STEVEN D. COLLINS, P.E., Ph.D
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400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

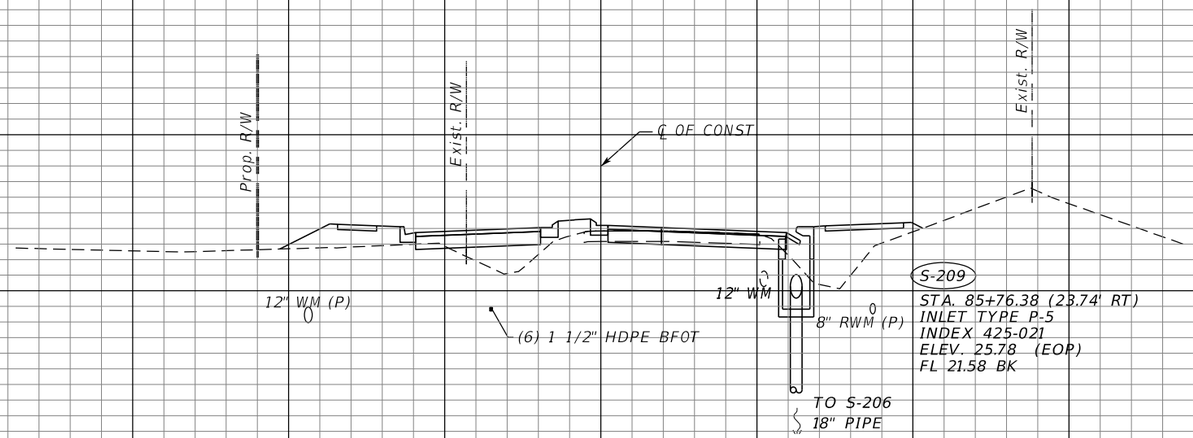
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 102





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

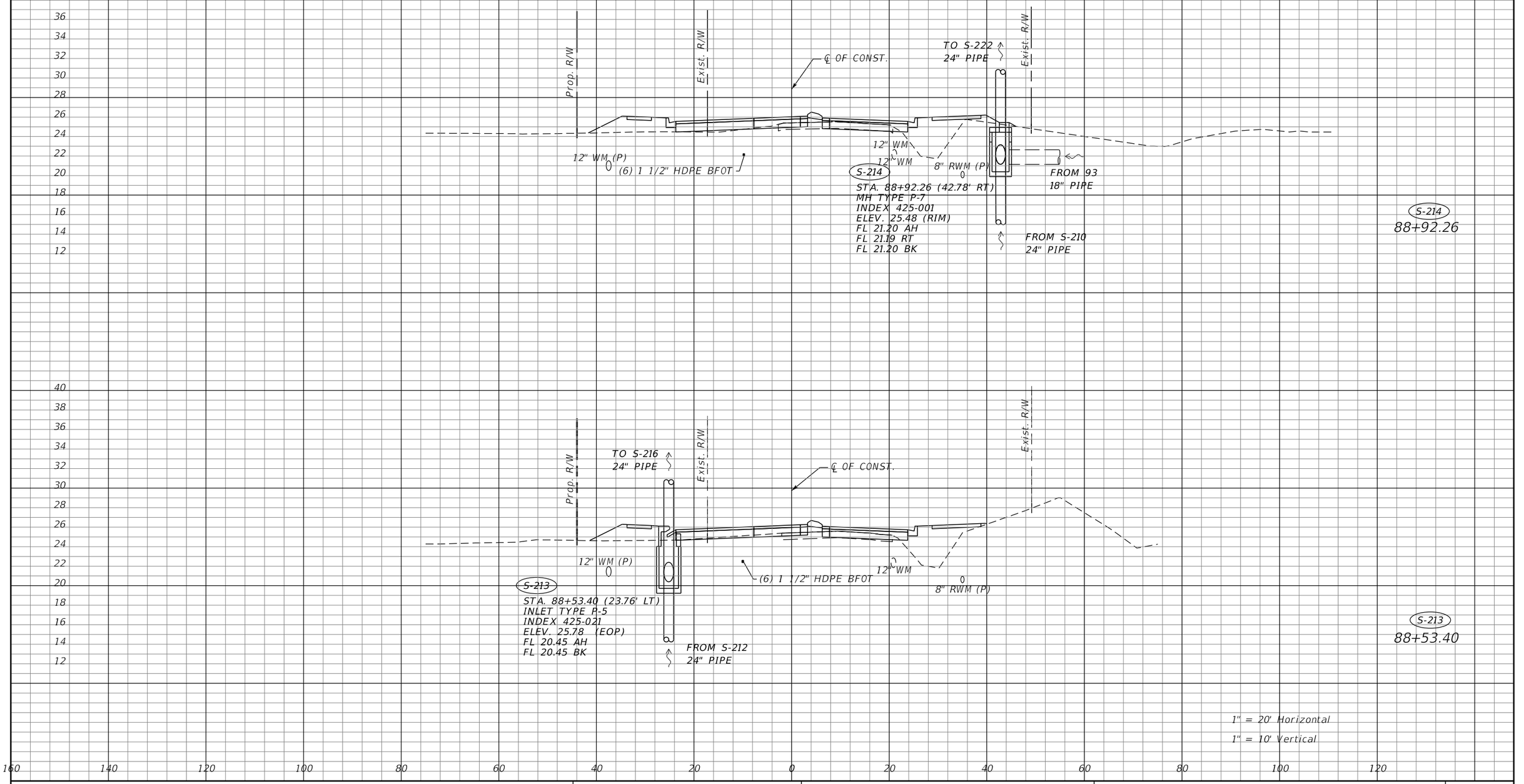
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 103



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

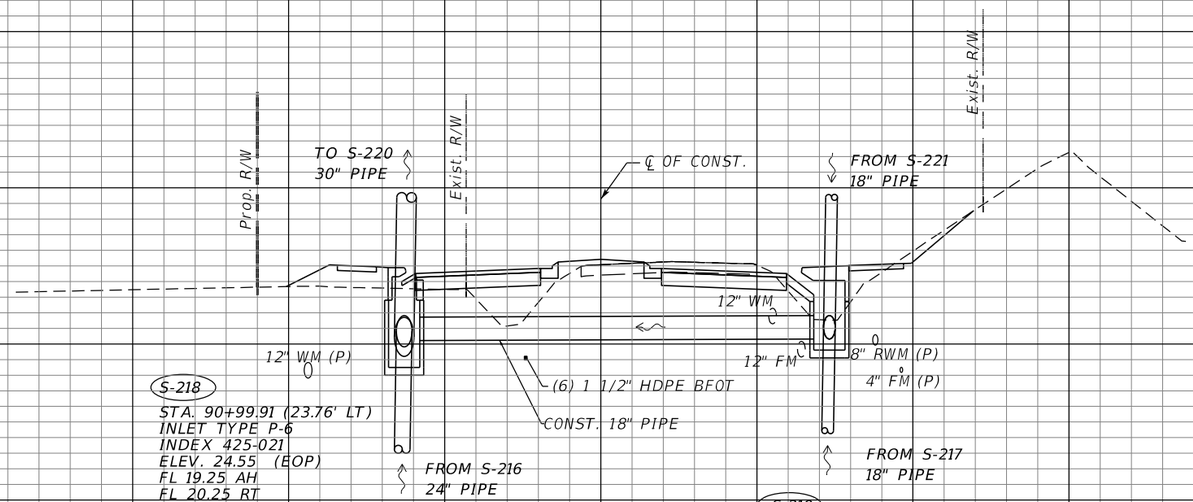
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

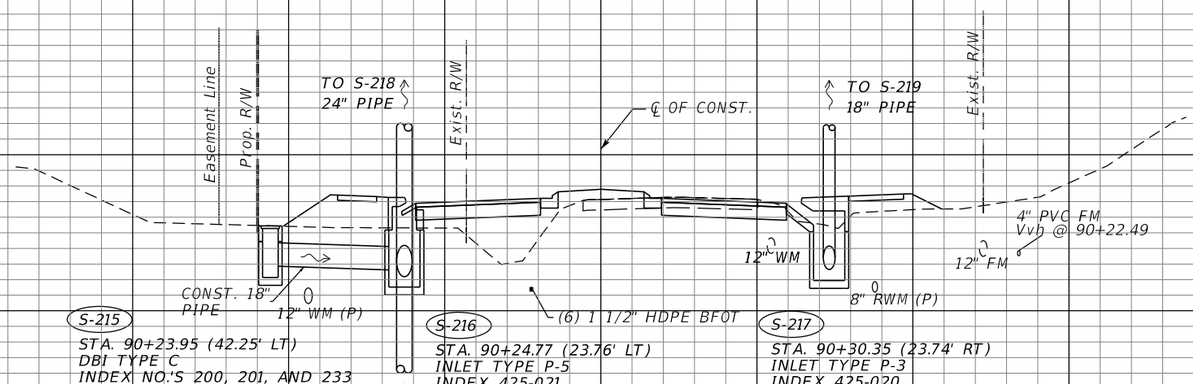
SHEET NO. 104



S-218
STA. 90+99.91 (23.76' LT)
INLET TYPE P-6
INDEX 425-021
ELEV. 24.55 (EOP)
FL 19.25 AH
FL 20.25 RT
FL 19.85 BK

S-219
STA. 91+01.89 (23.74' RT)
INLET TYPE P-4
INDEX 425-020
ELEV. 24.56 (EOP)
FL 20.36 AH
FL 20.36 BK
FL 20.36 LT

S-219
S-218
91+00.90



S-215
STA. 90+23.95 (42.25' LT)
DBI TYPE C
INDEX NO.'S 200, 201, AND 233
ELEV. 23.51 (GRATE)
FL 20.91 RT

S-216
STA. 90+24.77 (23.76' LT)
INLET TYPE P-5
INDEX 425-021
ELEV. 24.93 (EOP)
FL 20.23 AH
FL 20.23 BK
FL 20.73 LT

S-217
STA. 90+30.35 (23.74' RT)
INLET TYPE P-3
INDEX 425-020
ELEV. 24.90 (EOP)
FL 20.70 AH

S-217
S-216
S-215
90+24.77

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

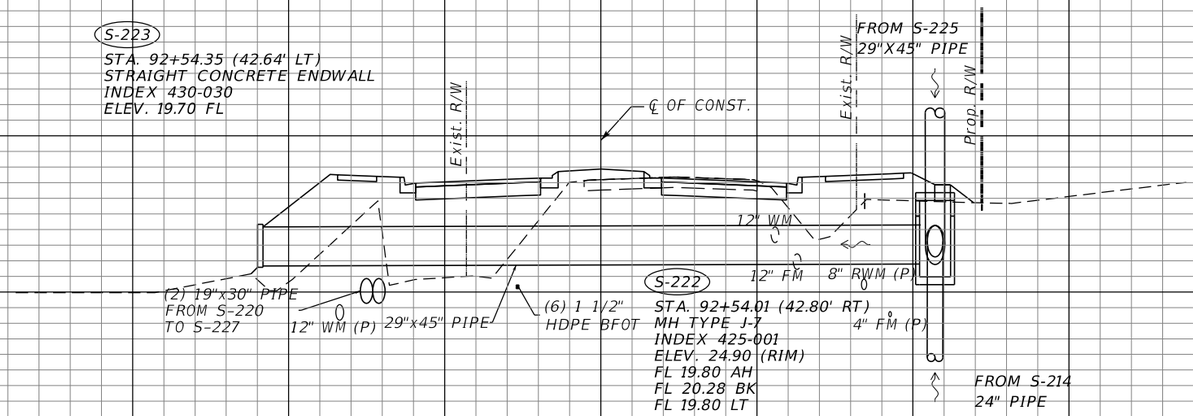
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

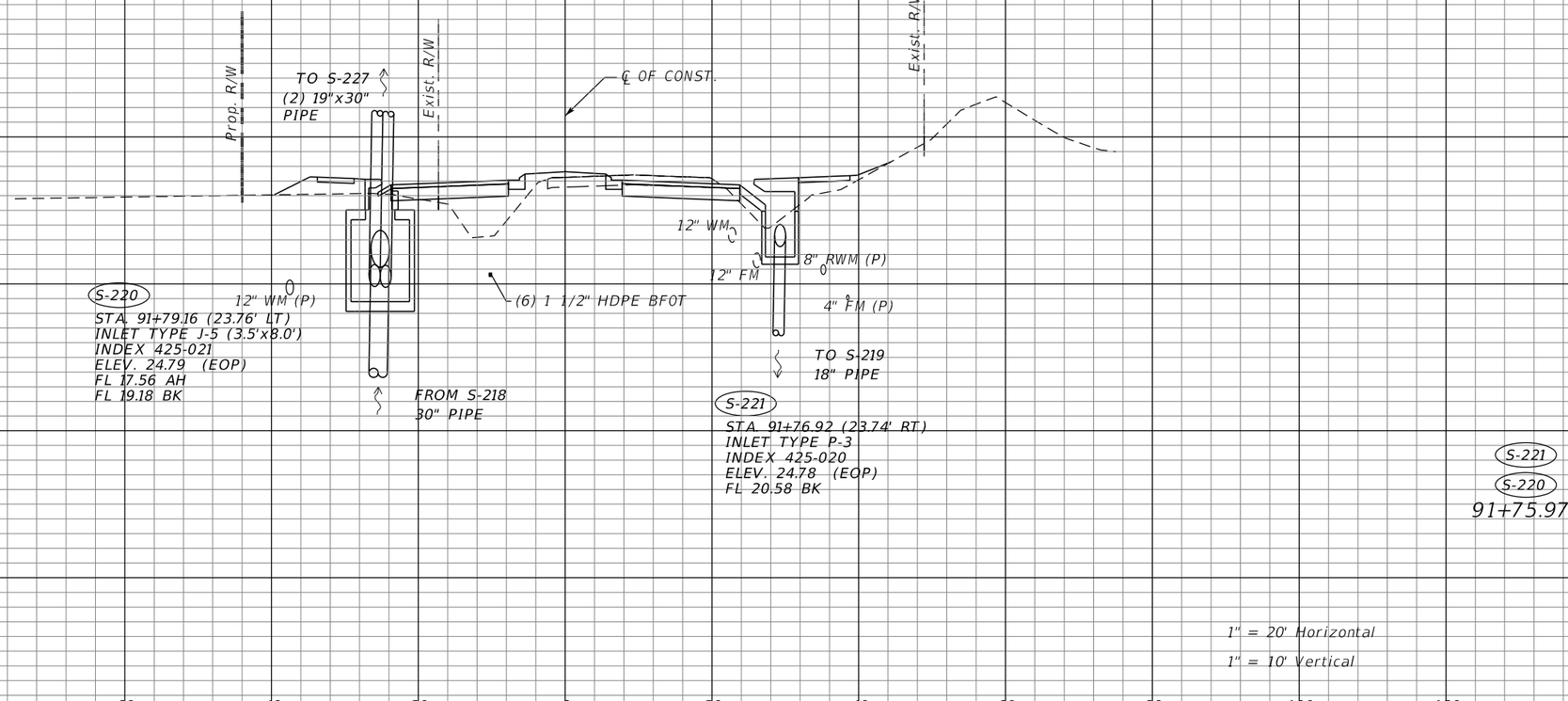
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 105





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

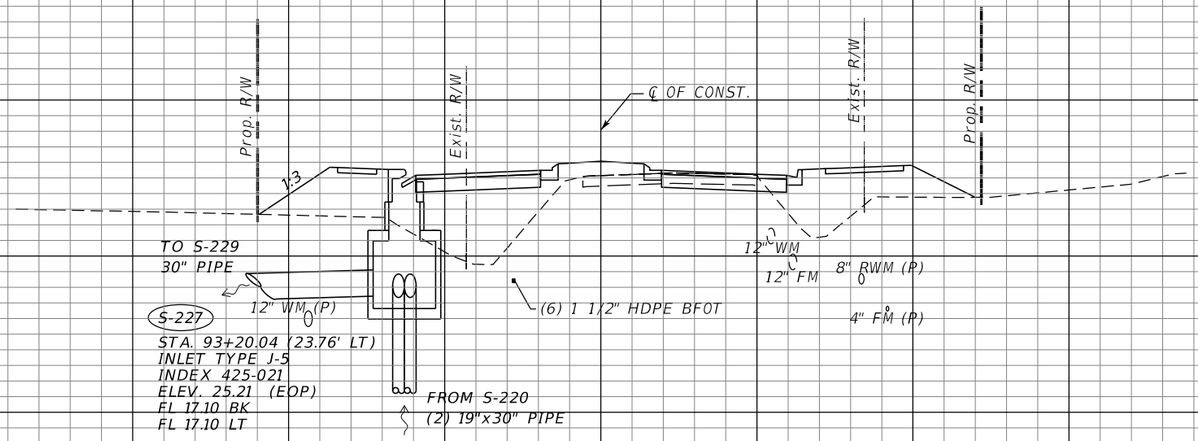
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

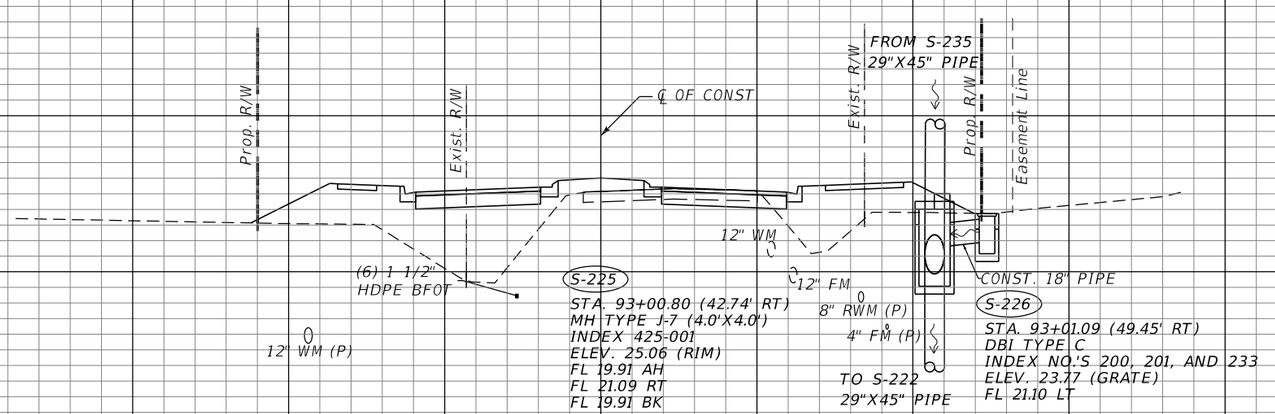
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 106





36 34 32 30 28 26 24 22 20 18 16 14 12 10

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

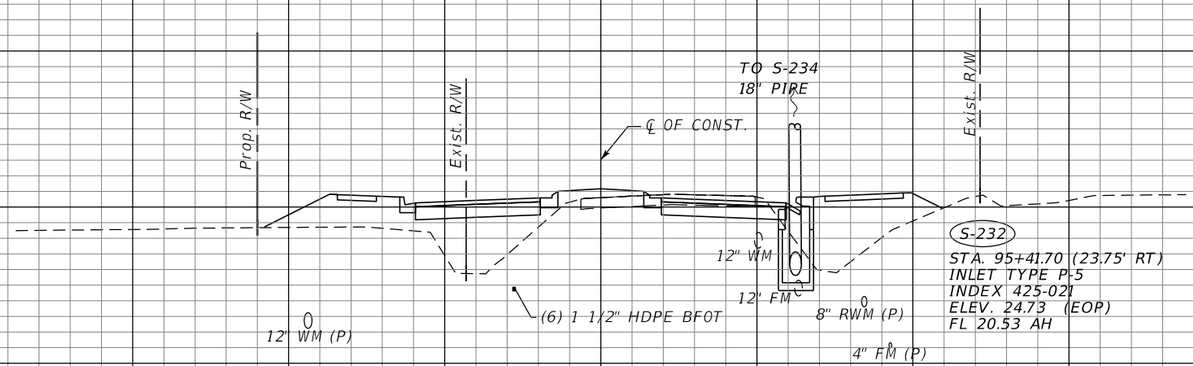
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

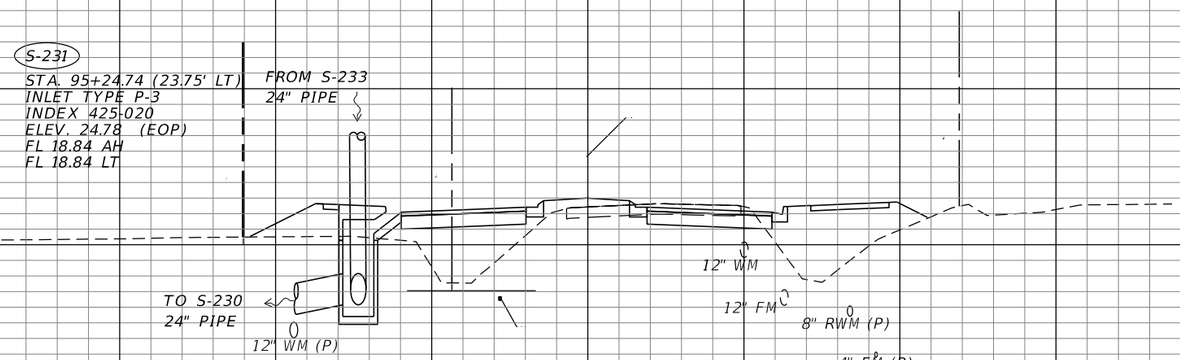
SHEET NO. 107



S-232

STA. 95+41.70 (23.75' RT)
INLET TYPE P-5
INDEX 425-021
ELEV. 24.73 (EOP)
FL 20.53 AH

S-232
95+41.70



S-231

STA. 95+24.74 (23.75' LT)
INLET TYPE P-3
INDEX 425-020
ELEV. 24.78 (EOP)
FL 18.84 AH
FL 18.84 LT

S-231
95+24.74

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

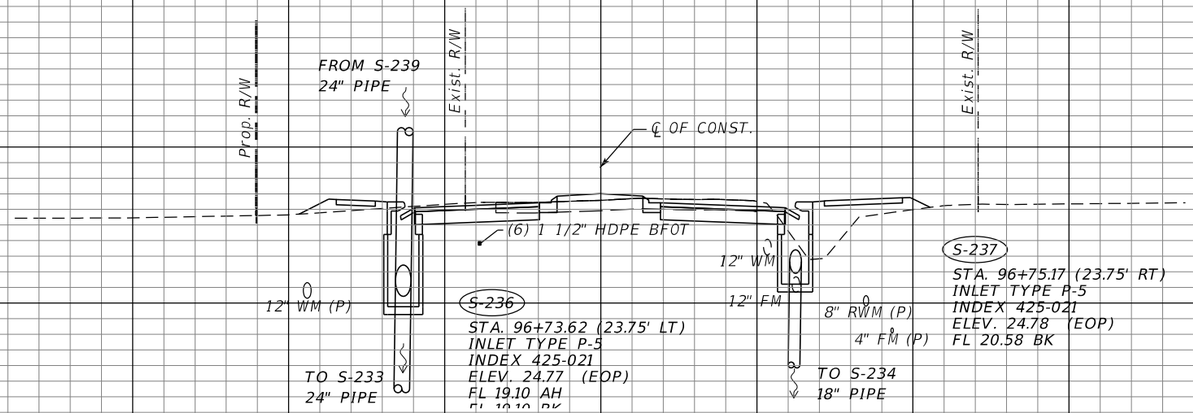
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

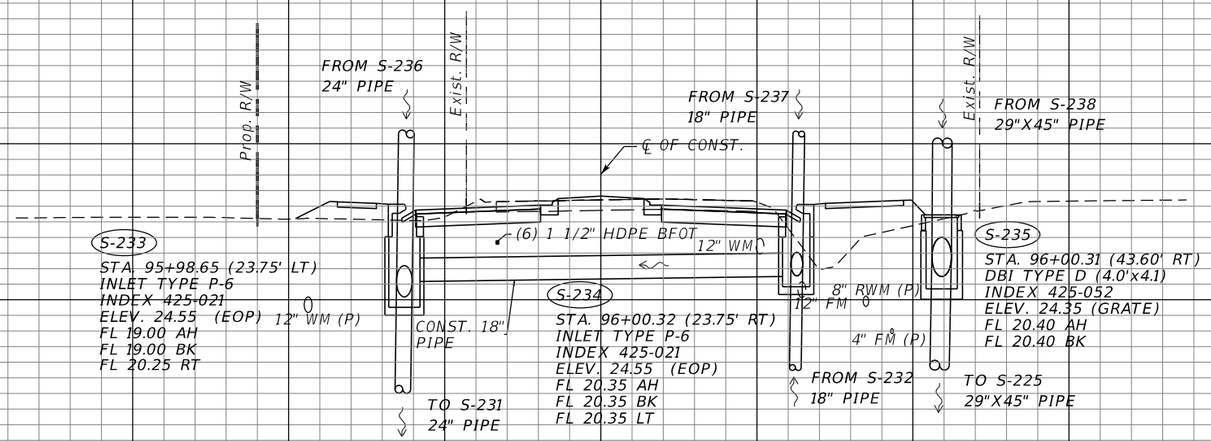
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 108





36 34 32 30 28 26 24 22 20 18 16 14 12

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

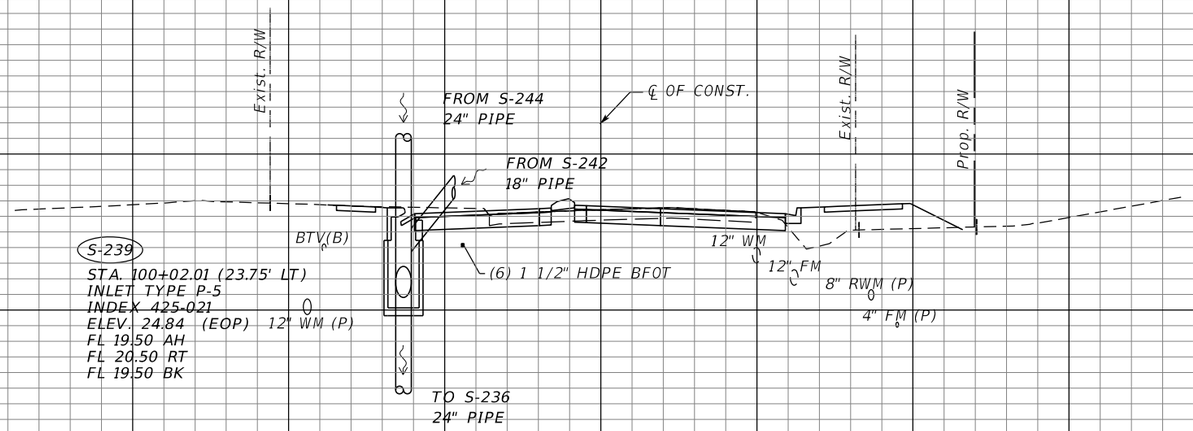
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

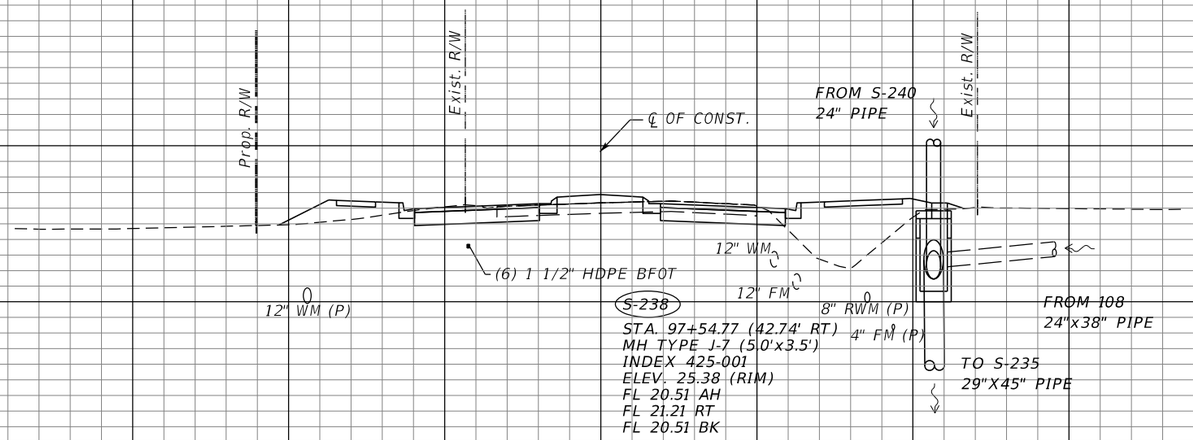
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 109





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

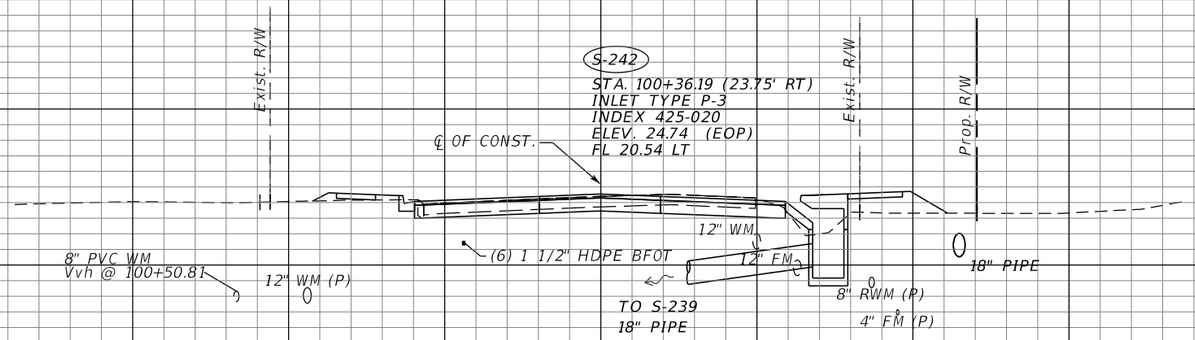
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

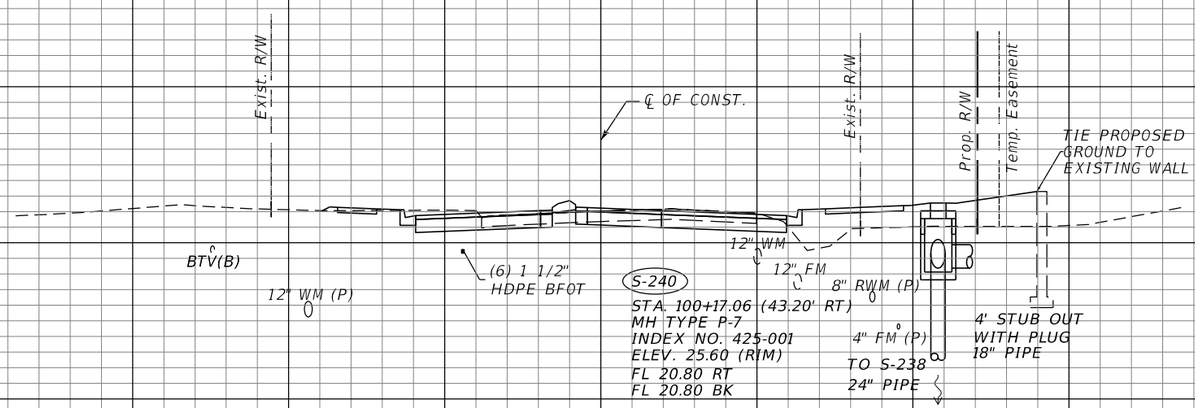
DRAINAGE STRUCTURES

SHEET NO. 110



S-242

100+36.19



S-240

100+18.81

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

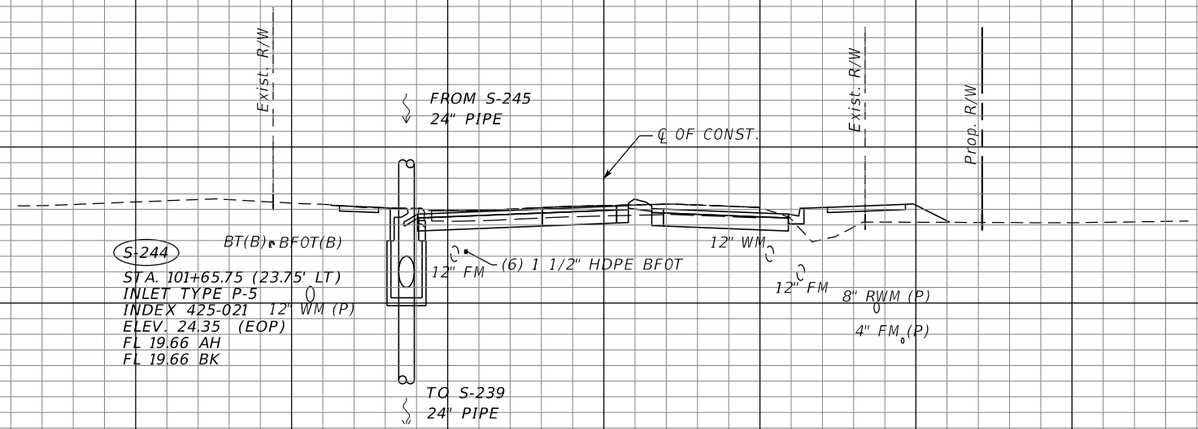
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

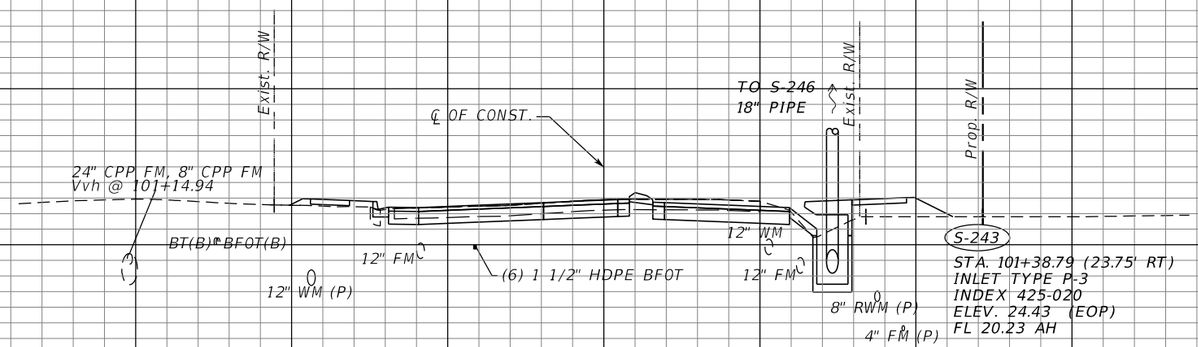
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 111



S-244
101+61.34



S-243
101+38.79

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

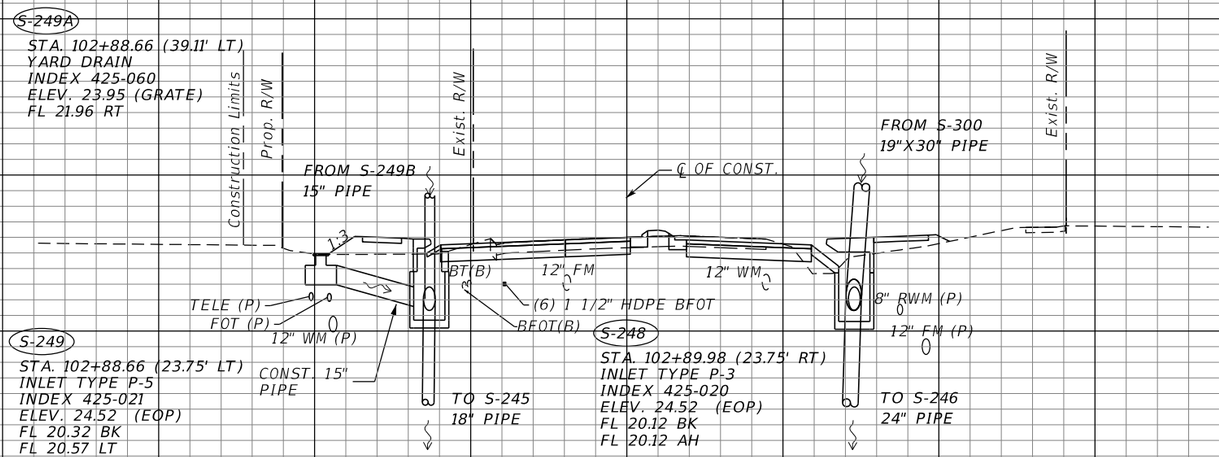
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

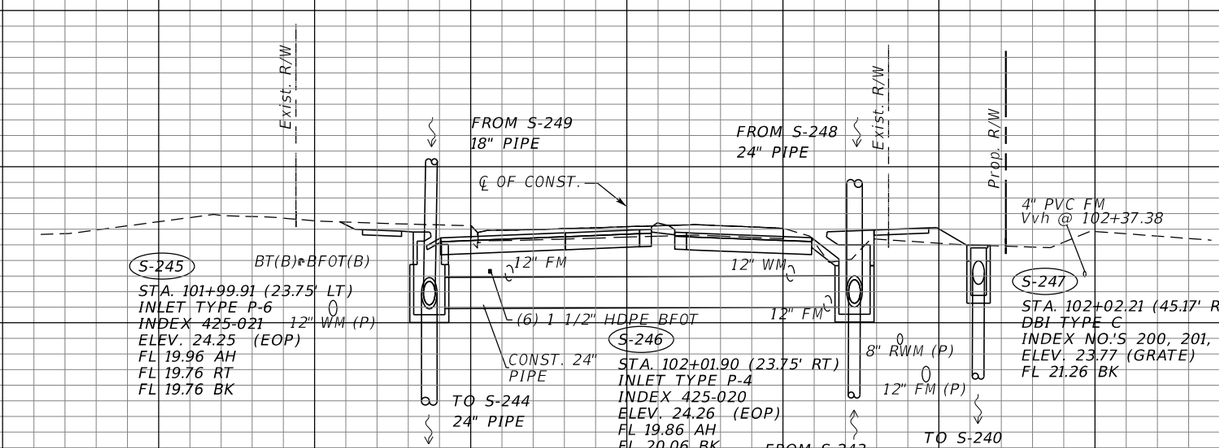
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 112





1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

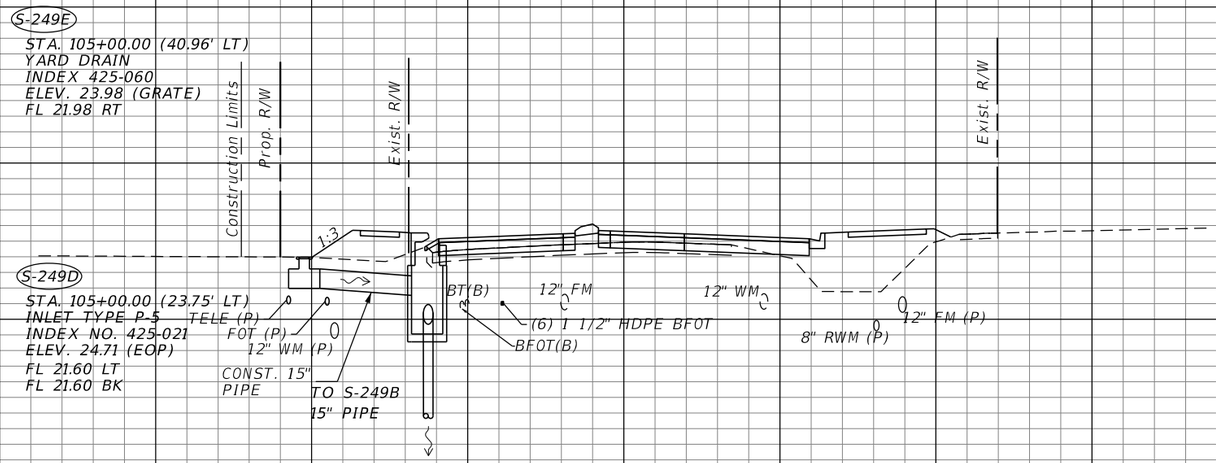
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

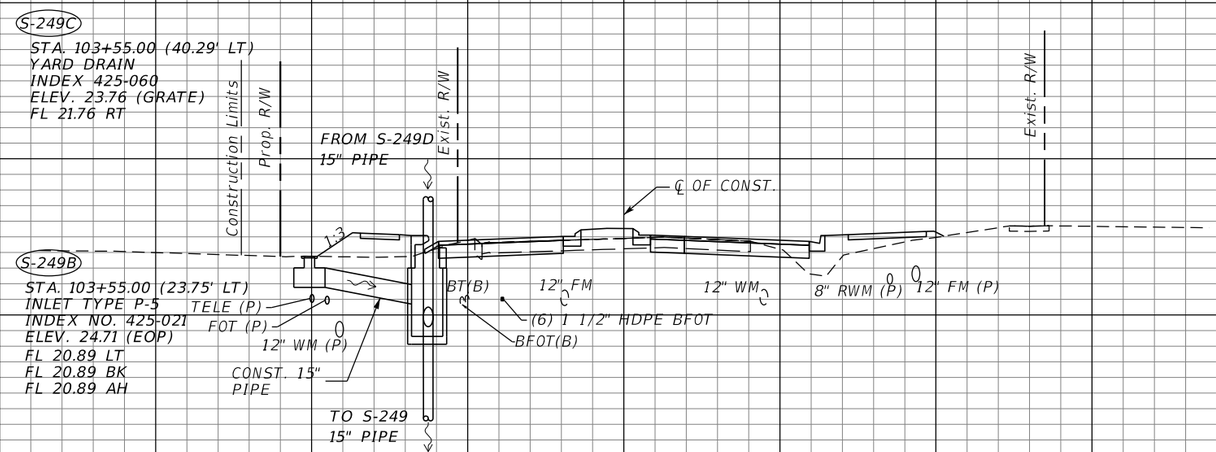
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 113





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

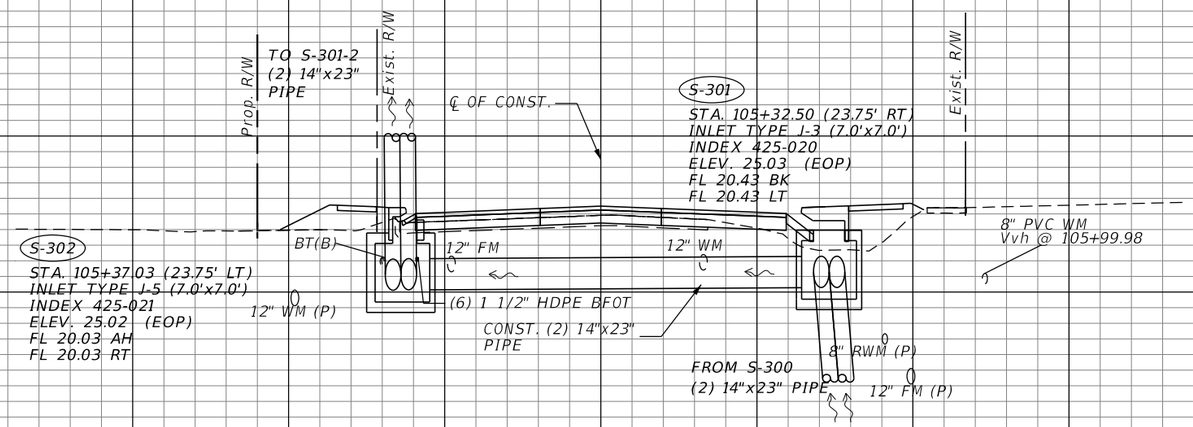
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

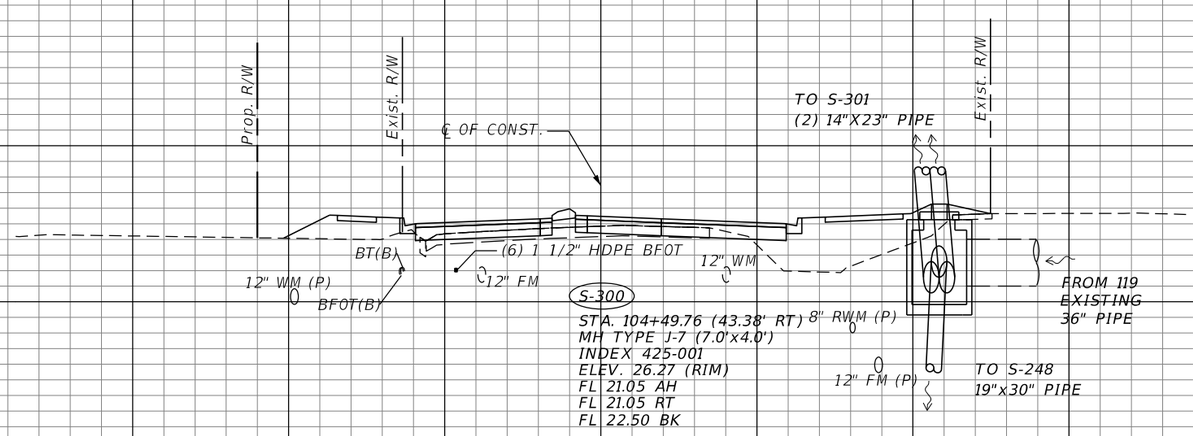
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 113A





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

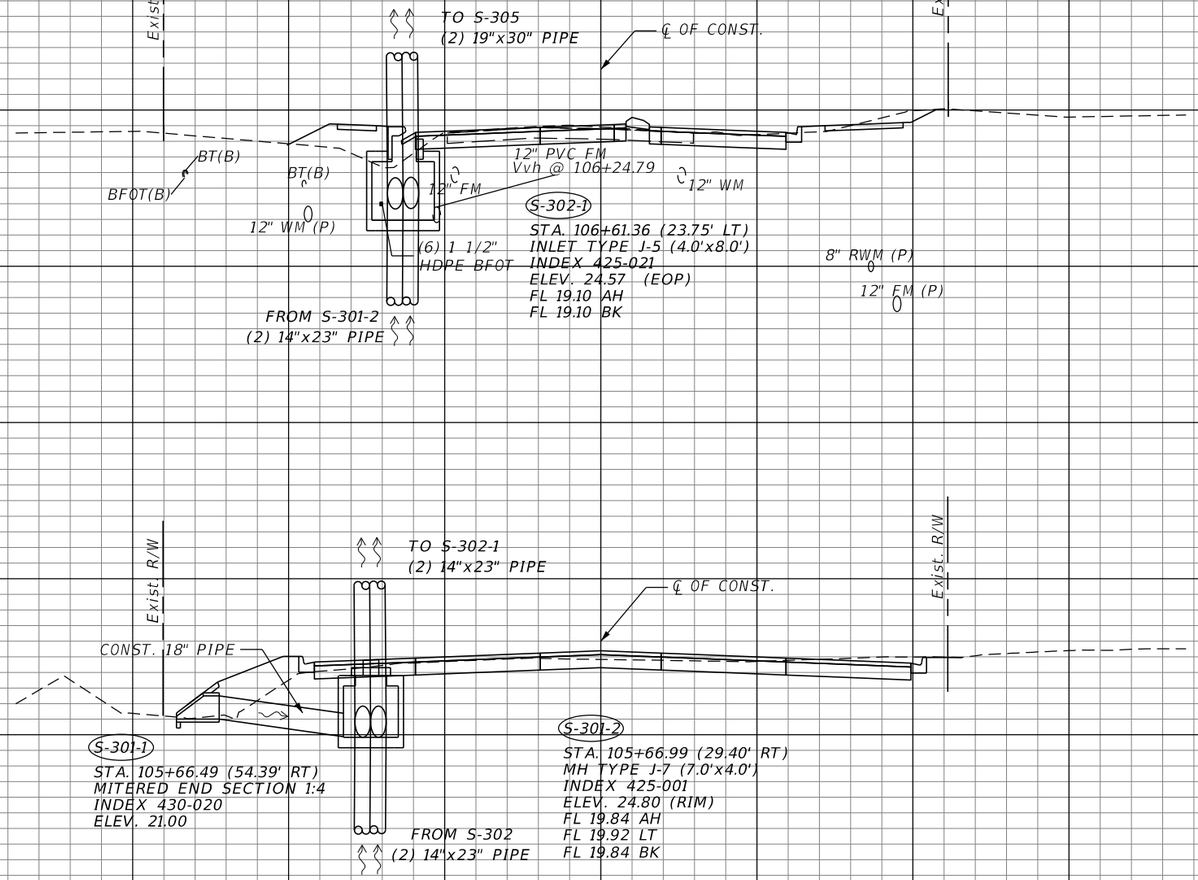
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
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DRAINAGE STRUCTURES

SHEET NO. 114



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

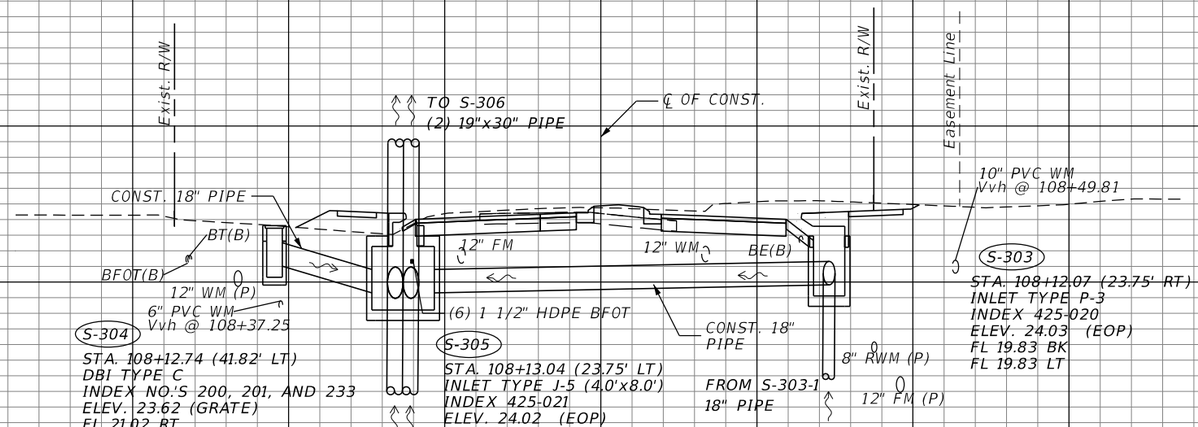
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

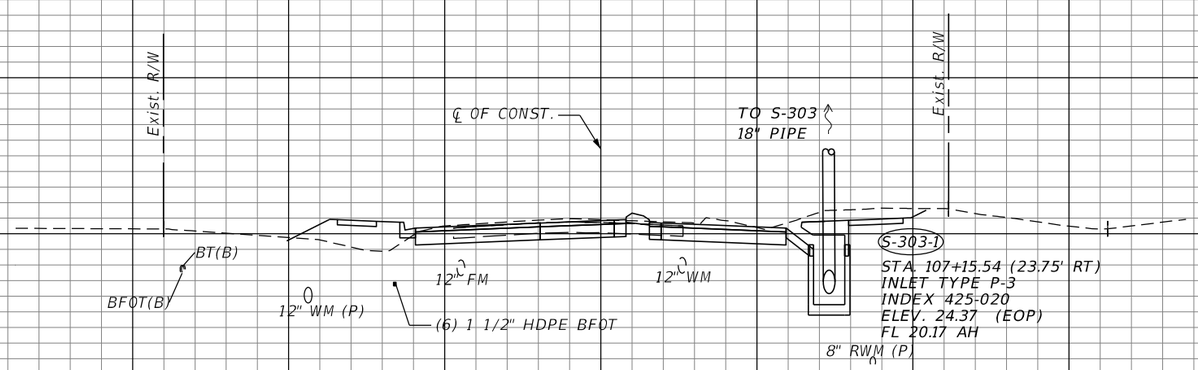
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 115





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

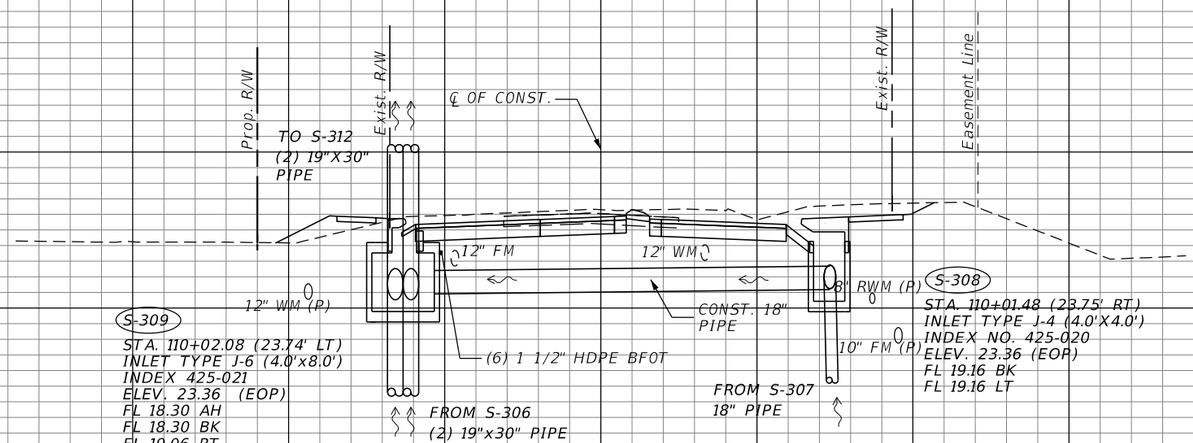
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

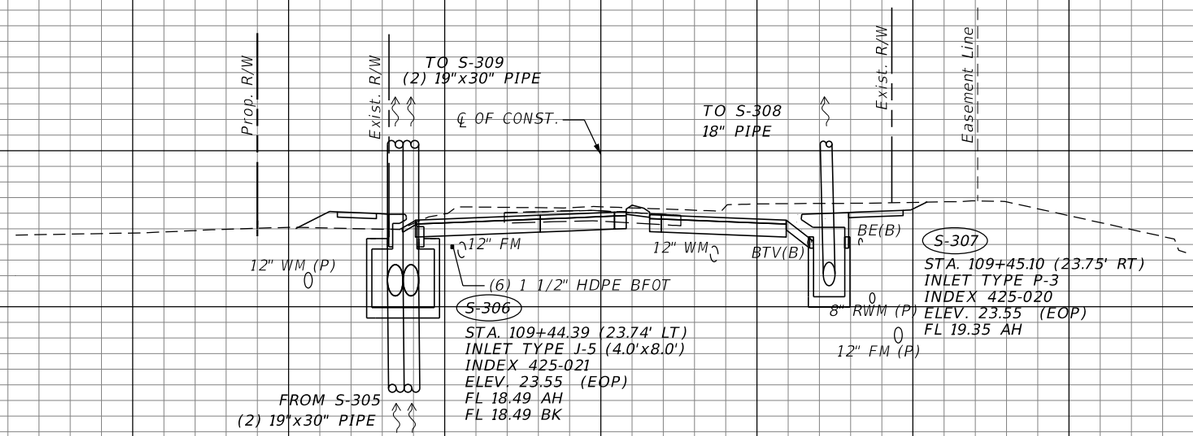
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 116





36 34 32 30 28 26 24 22 20 18 16 14 12 10

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

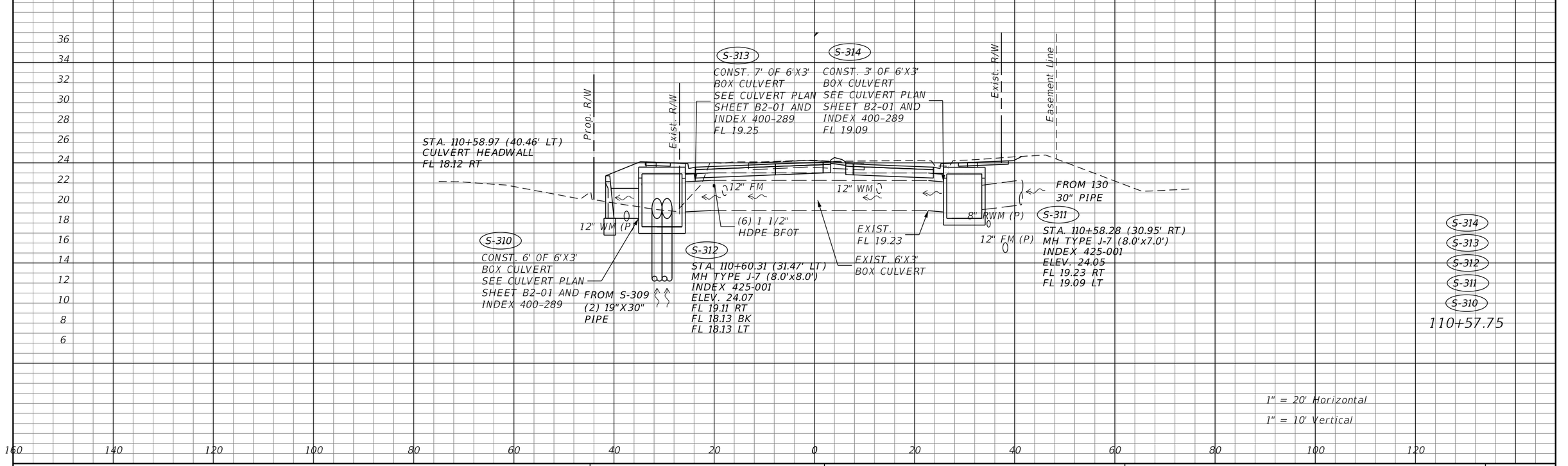
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 117



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

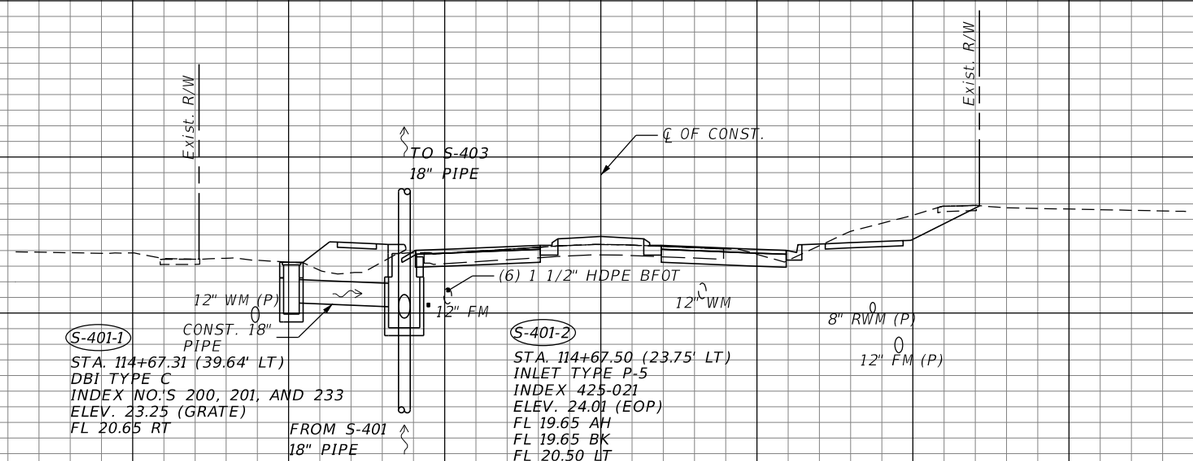
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

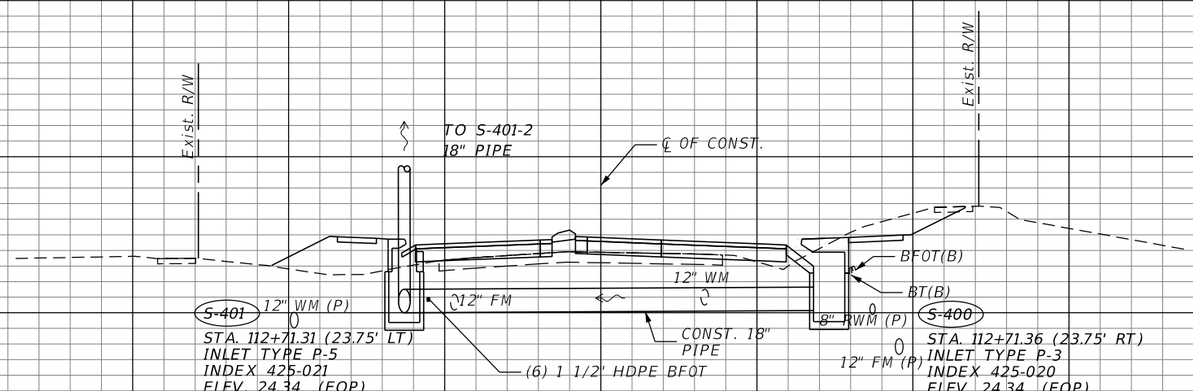
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 118





38 36 34 32 30 28 26 24 22 20 18 16 14 12

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

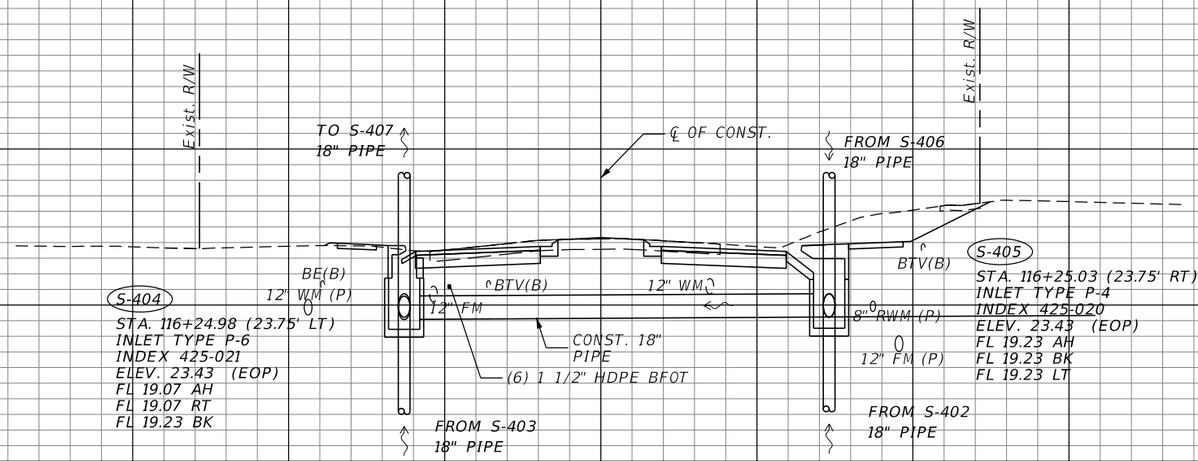
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

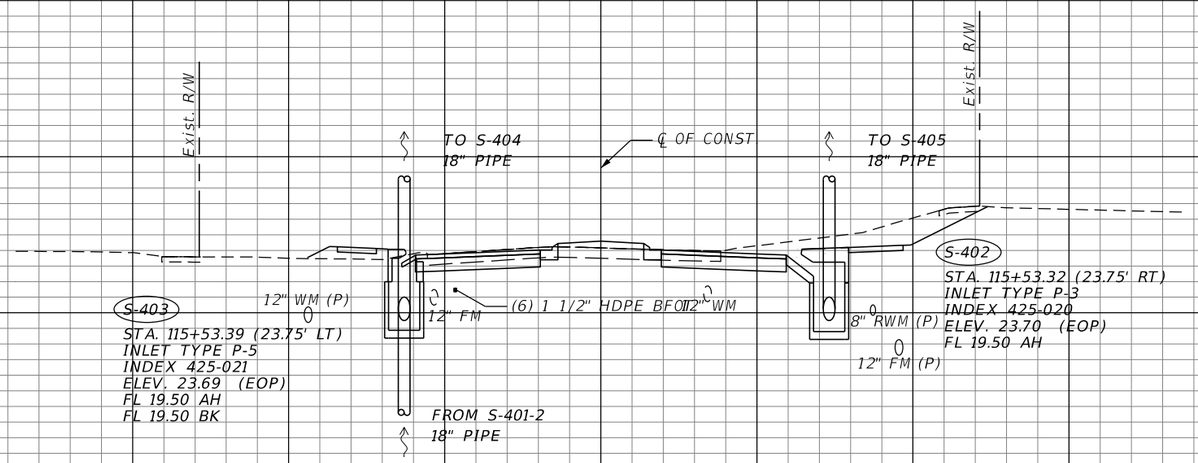
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 119





1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

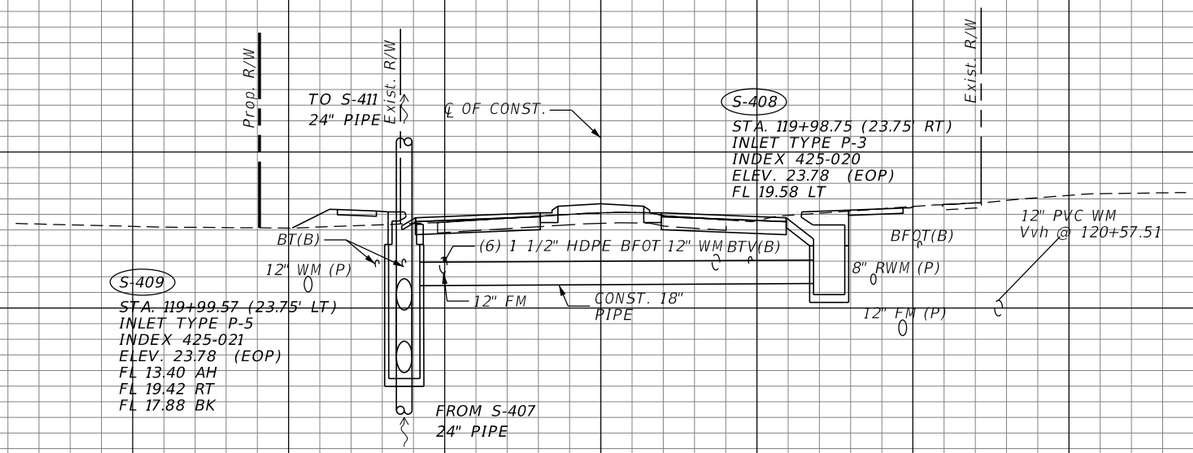
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

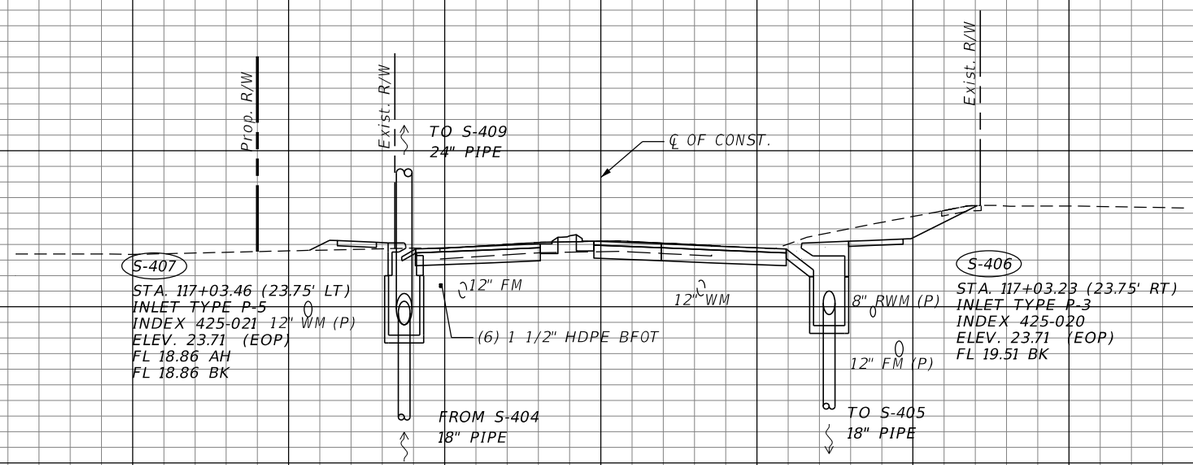
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 120



S-409
S-408
119+98.75



S-407
S-406
117+03.23

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

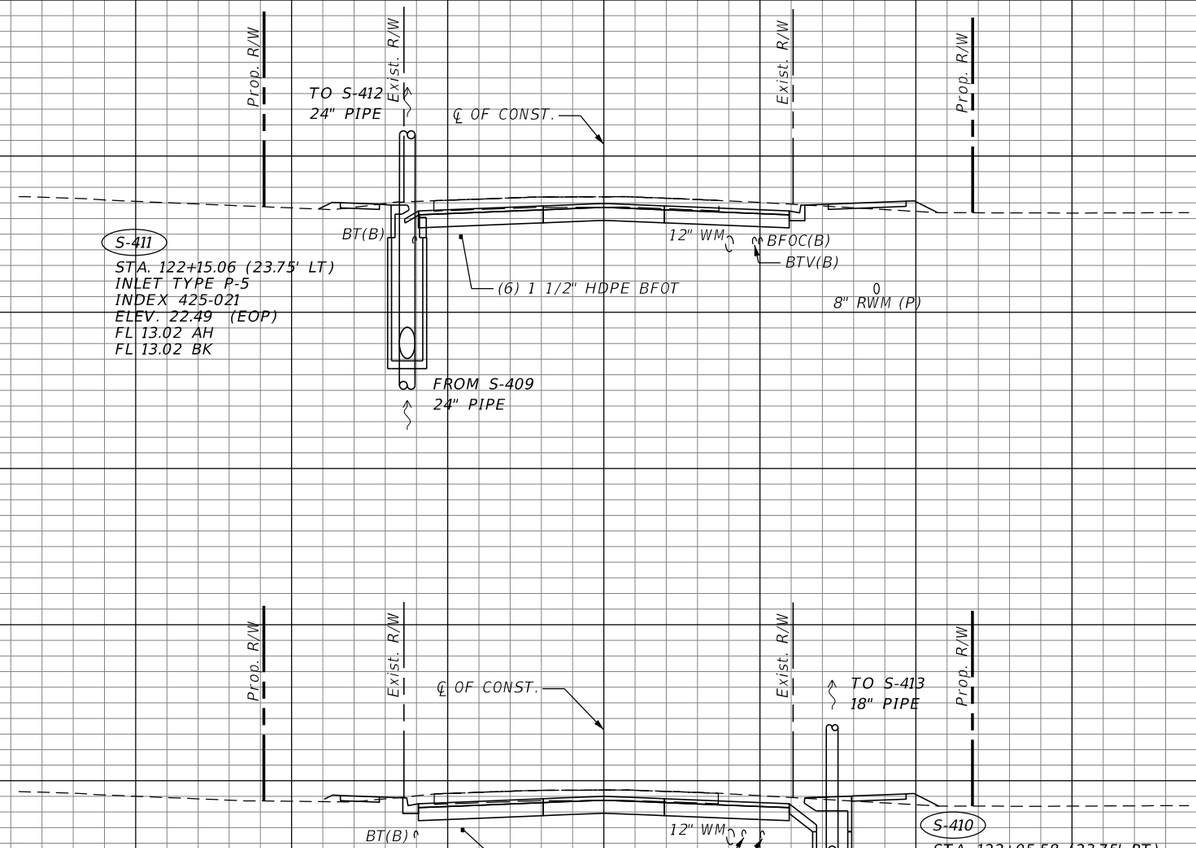
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
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DRAINAGE STRUCTURES

SHEET NO. 121



S-411
122+15.06

S-410
122+05.58

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

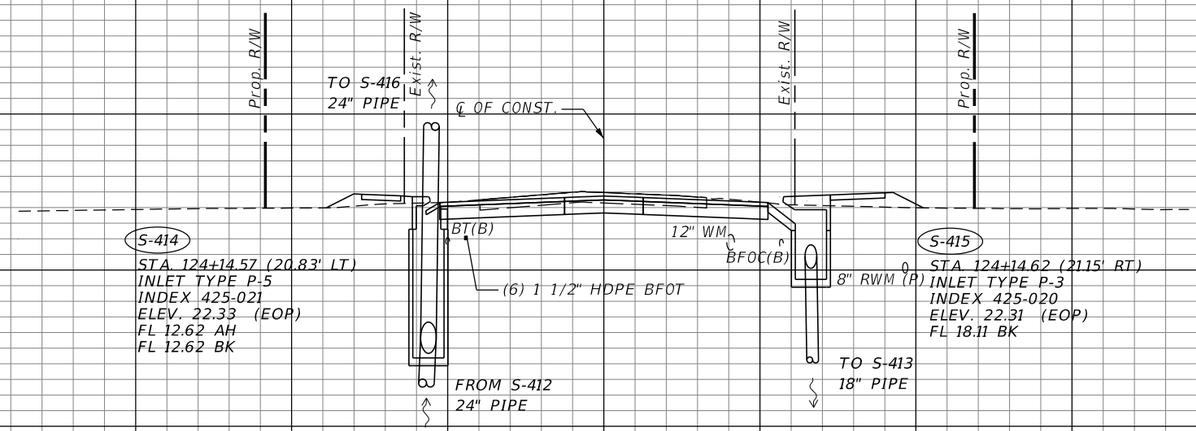
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

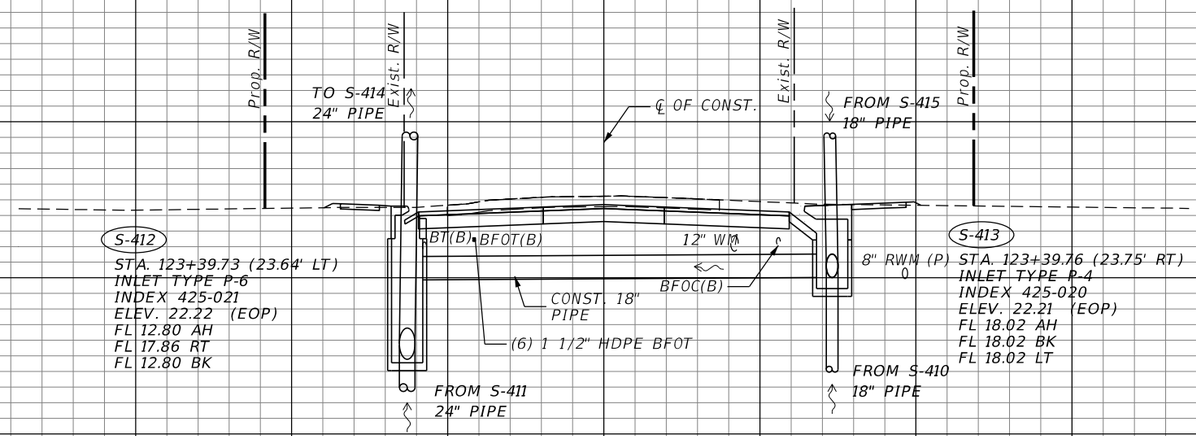
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO.
122





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

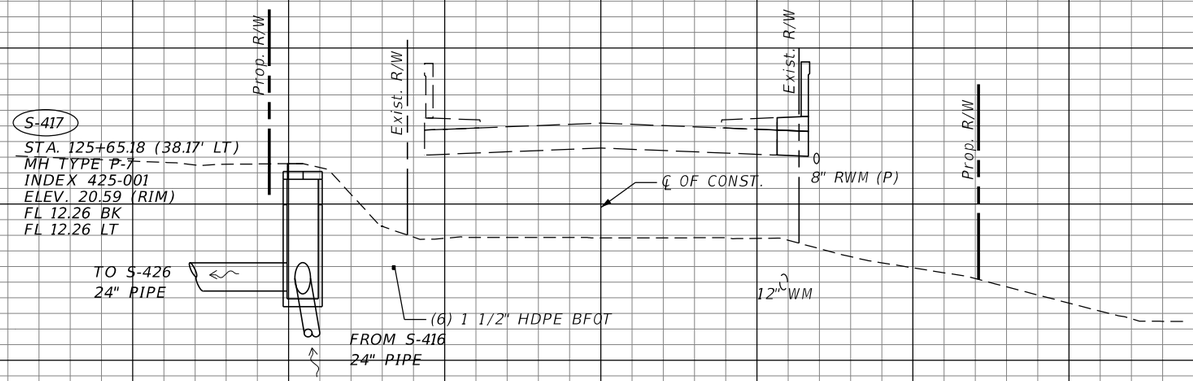
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

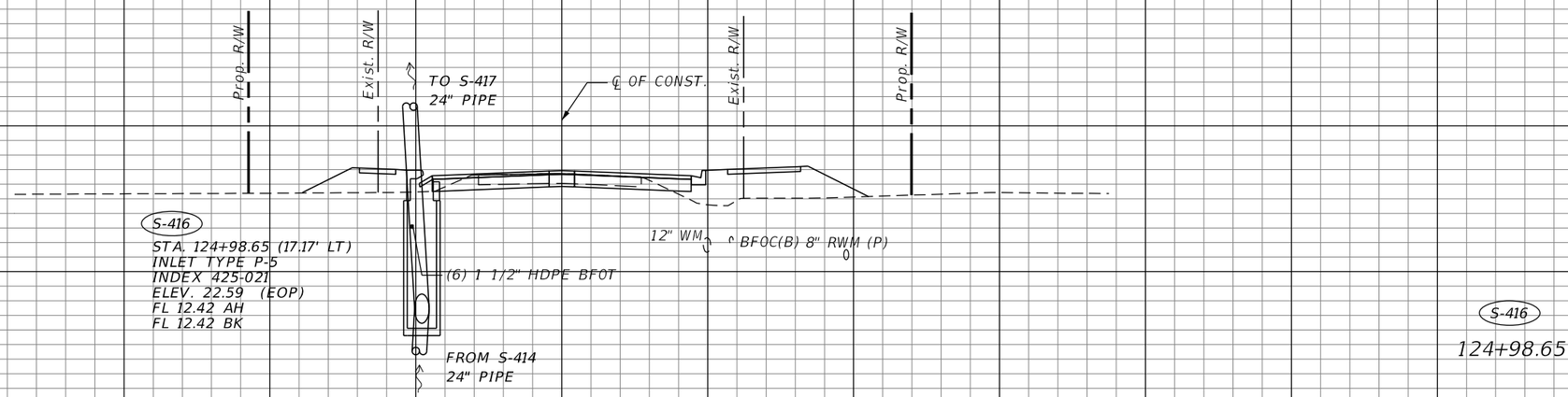
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 123





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

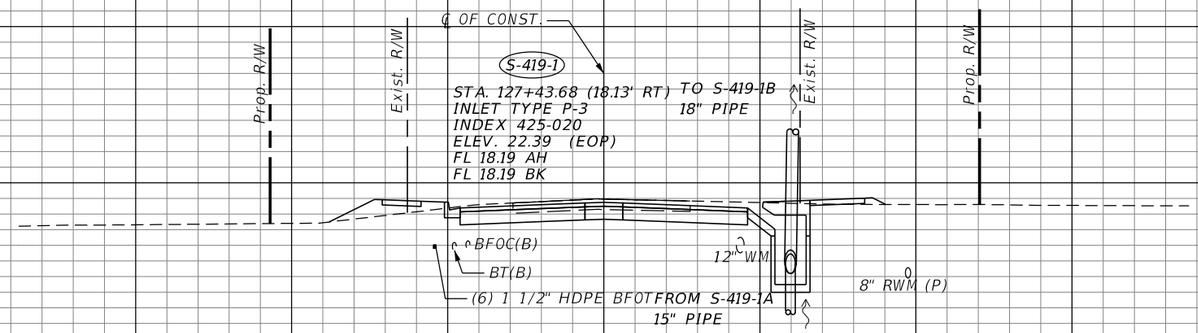
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

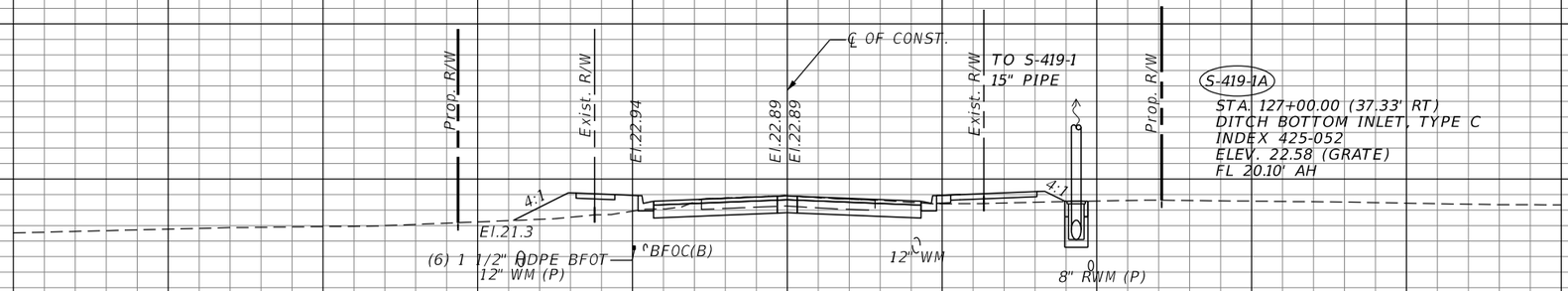
DRAINAGE STRUCTURES

SHEET NO. 124



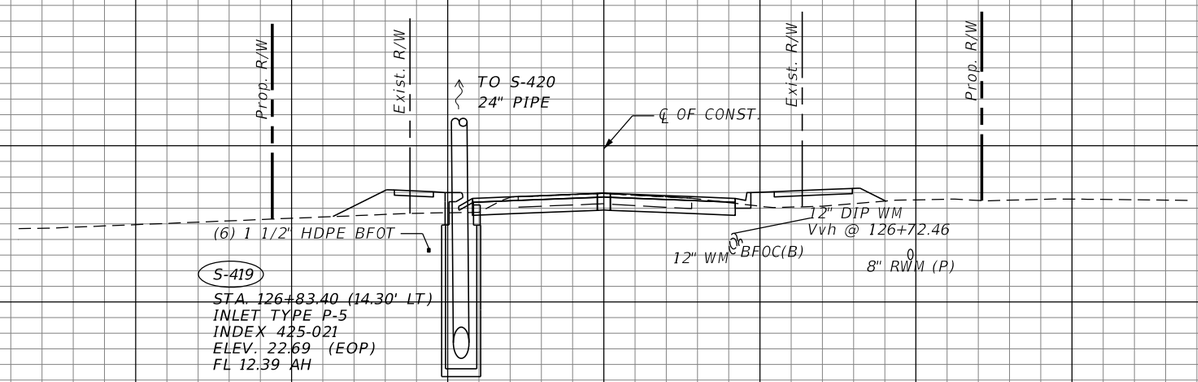
S-419-1

127+43.68



S-419-1A

127+00.00



1" = 20' Horizontal

1" = 10' Vertical

S-419

126+83.40

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

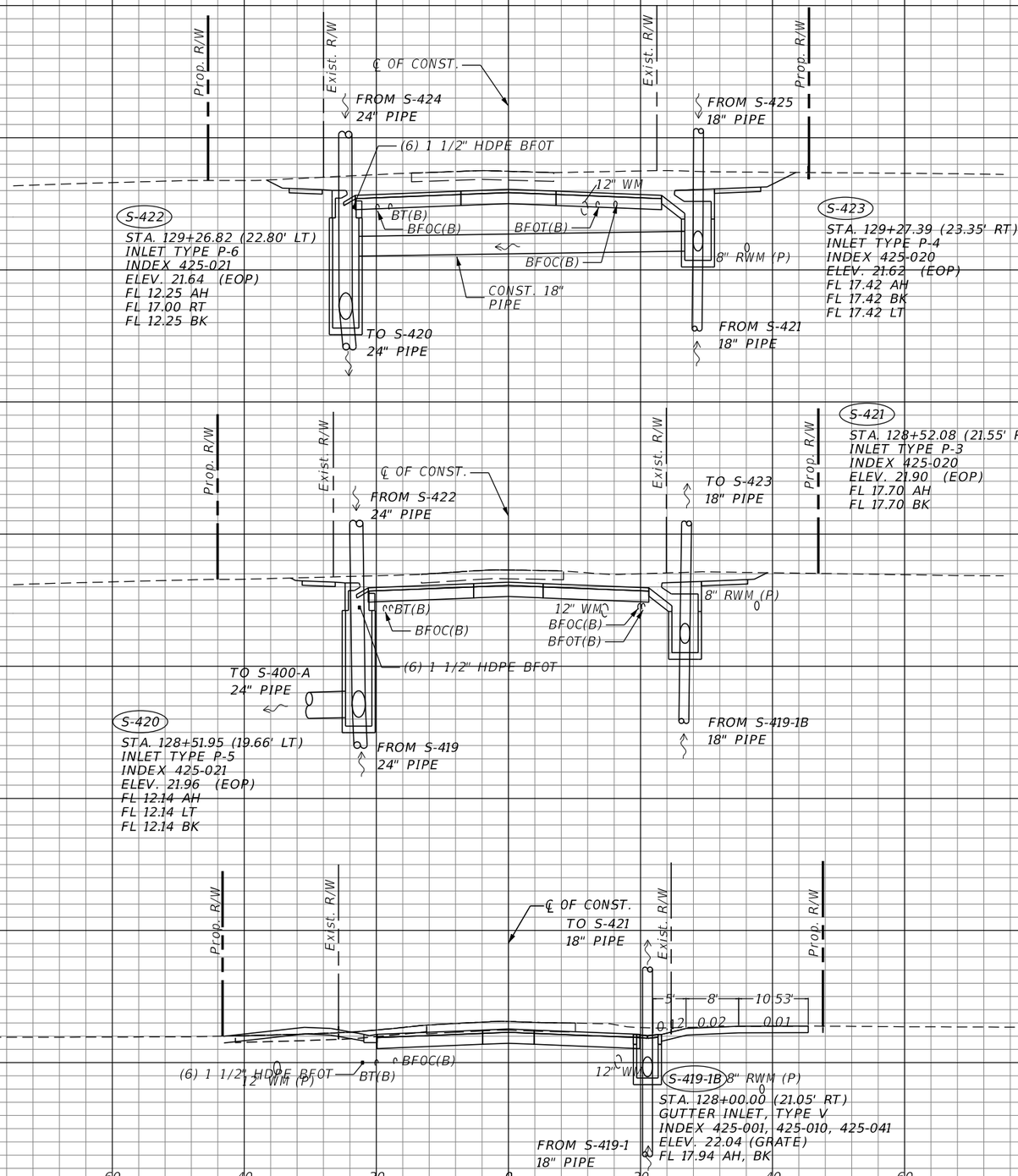
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 125



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

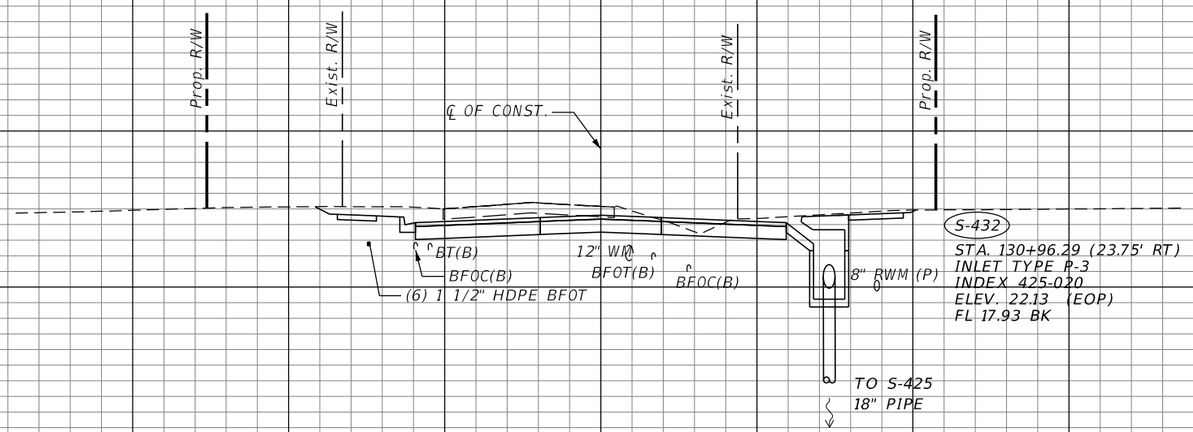
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

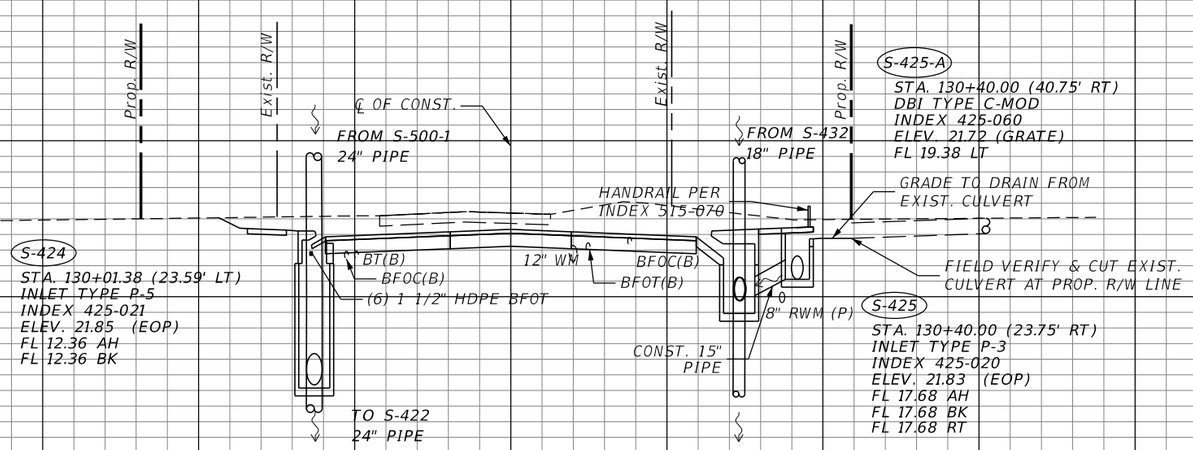
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 126





S-432
130+96.29

S-425-A
S-425
S-424
130+01.38

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

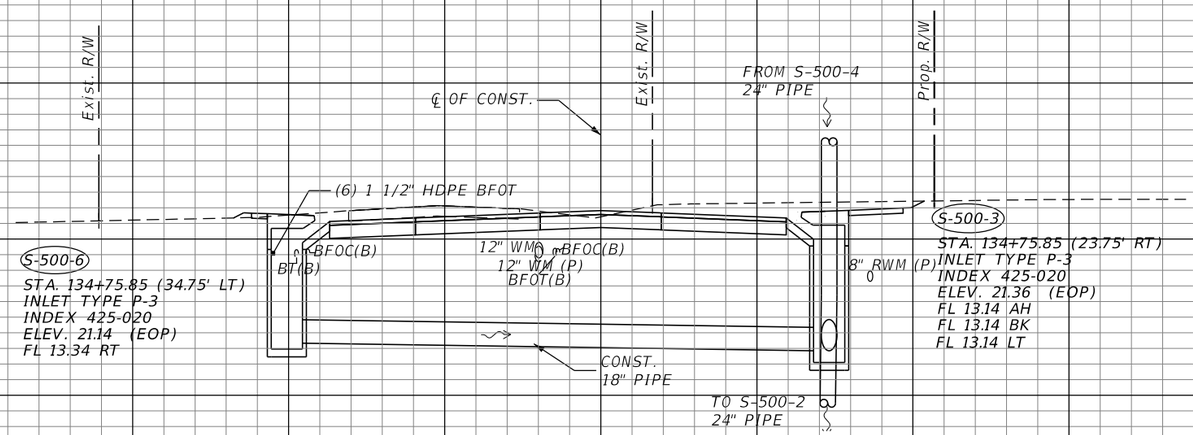
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 127



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

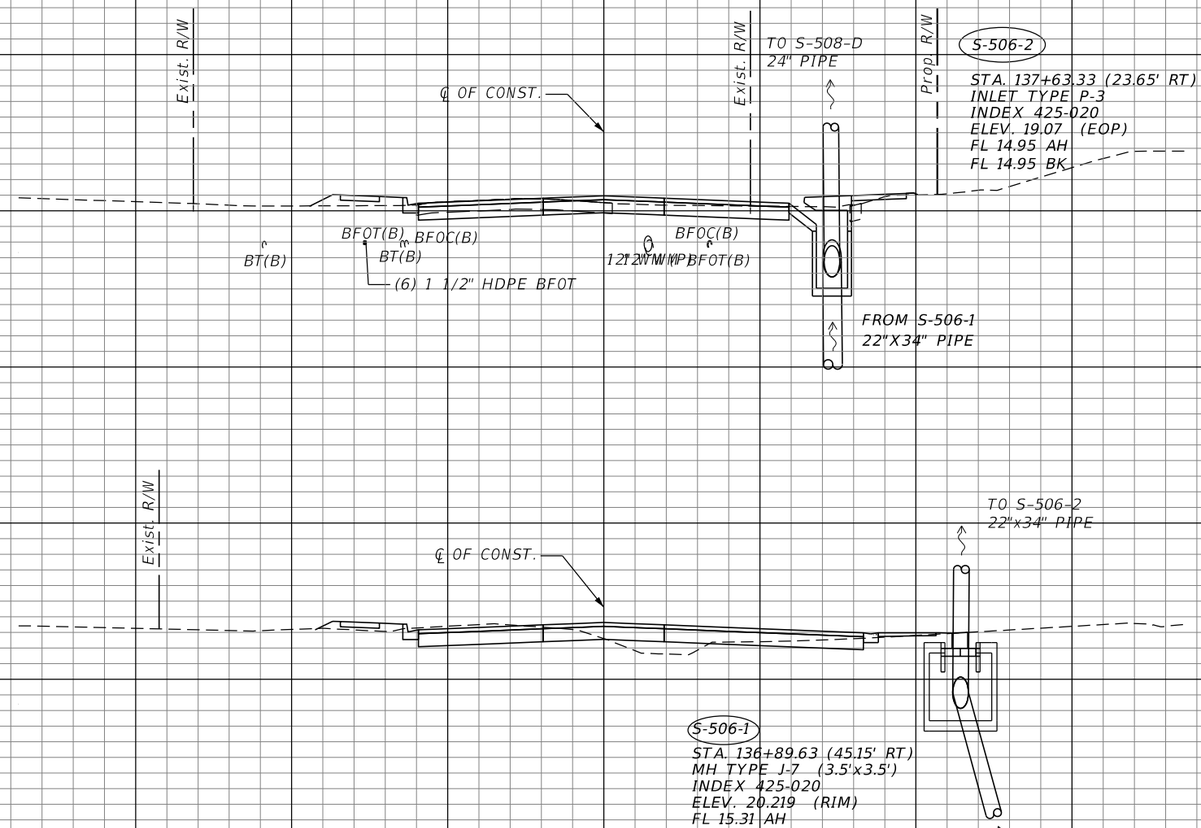
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 128



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

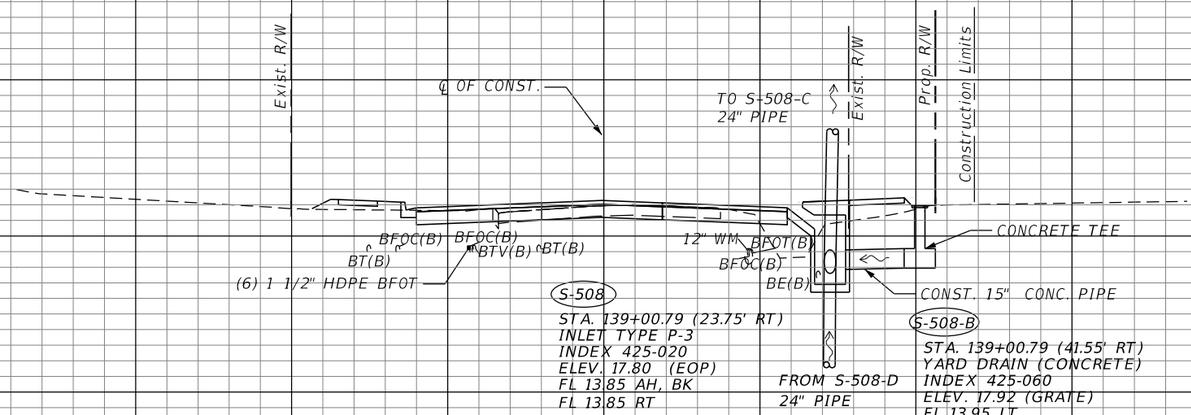
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 129



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

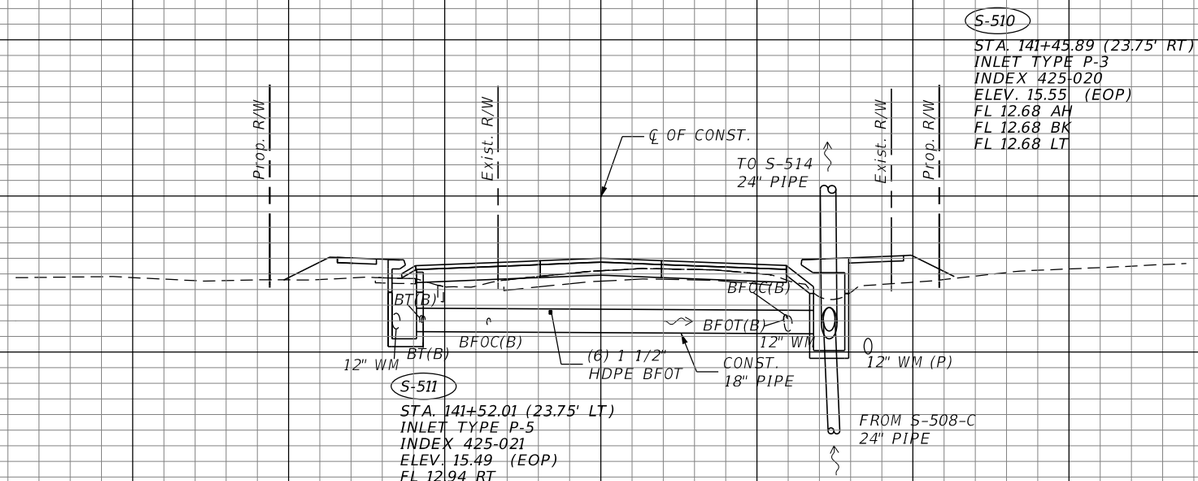
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

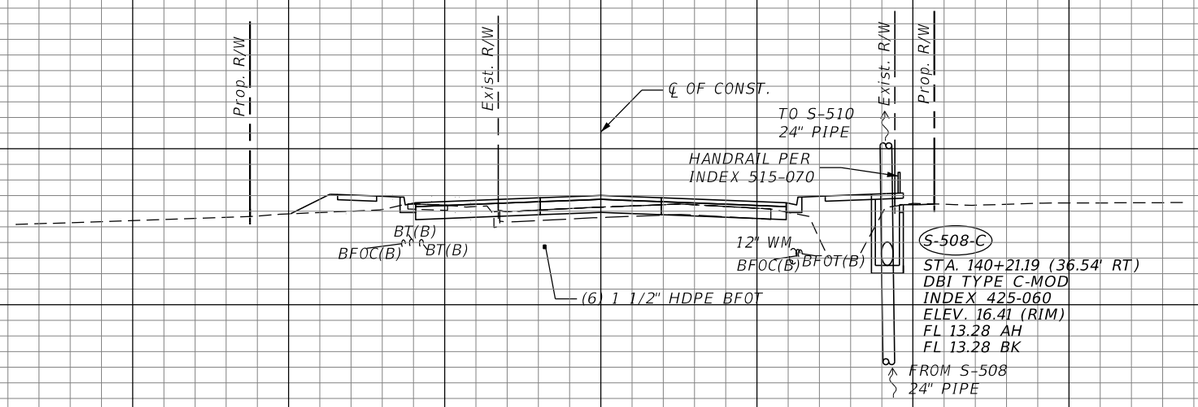
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 130





1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

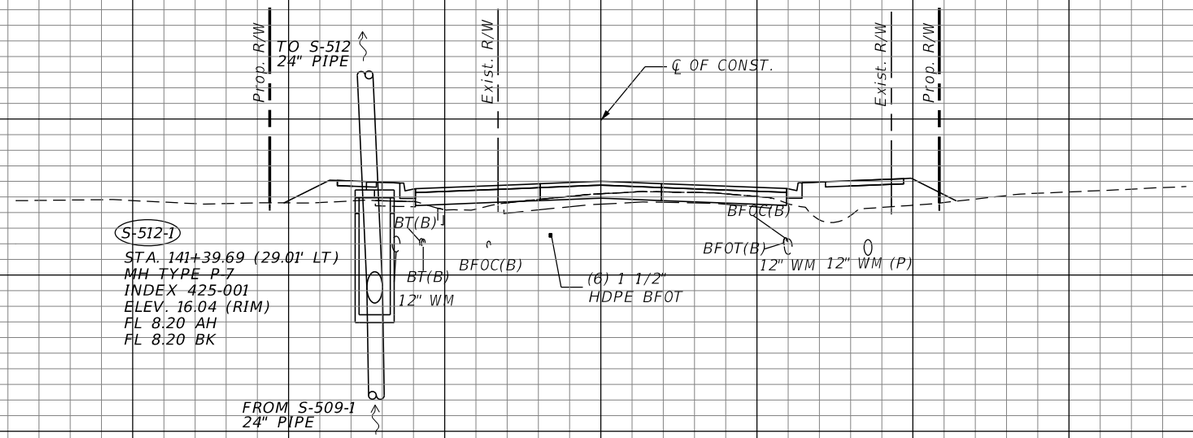
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

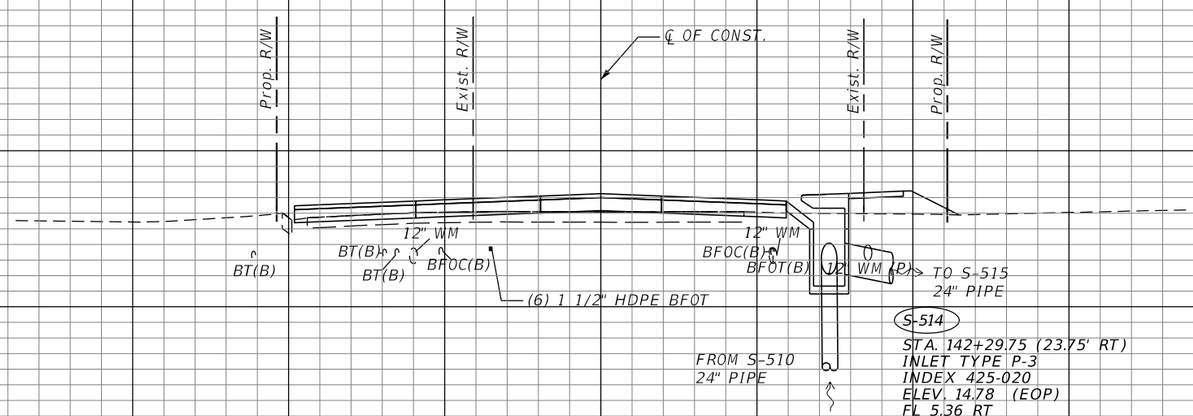
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 131



S-512-1
141+39.69



S-514
142+29.75

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

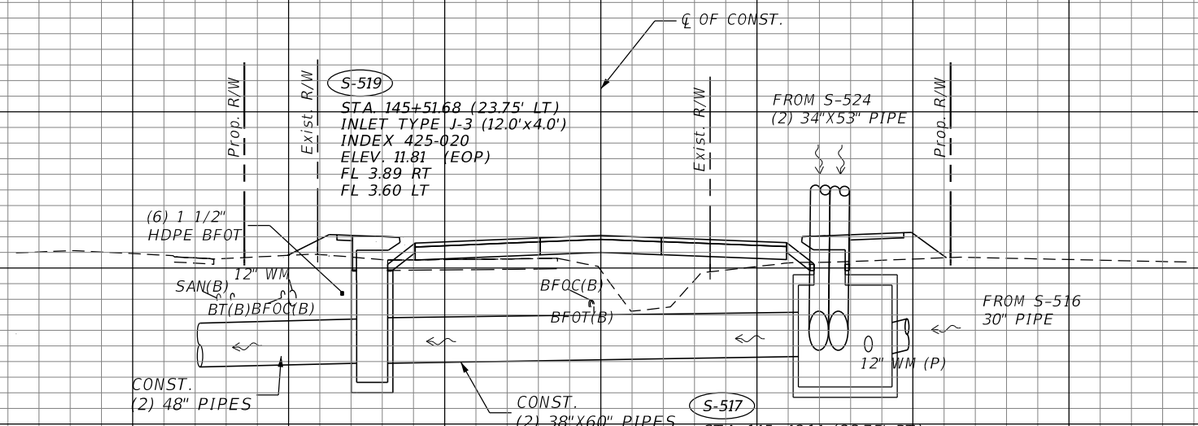
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

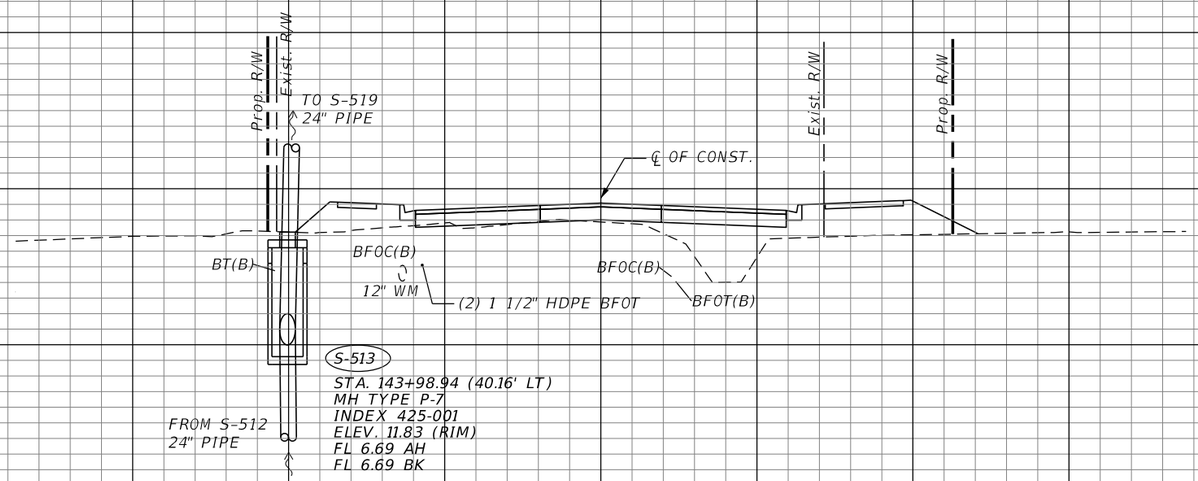
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 132





179
S-519
S-518
S-517

145+49.91

S-513

143+98.90

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

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

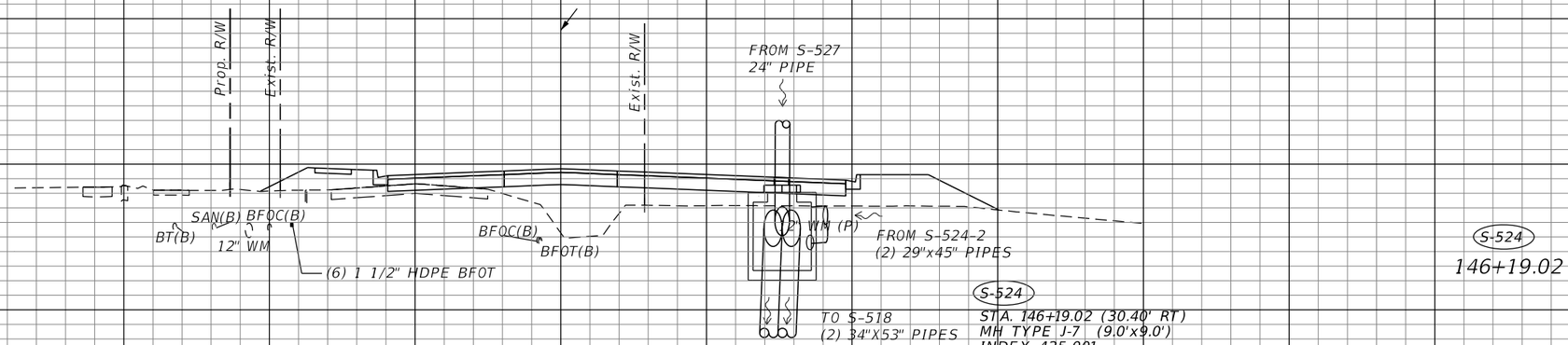
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

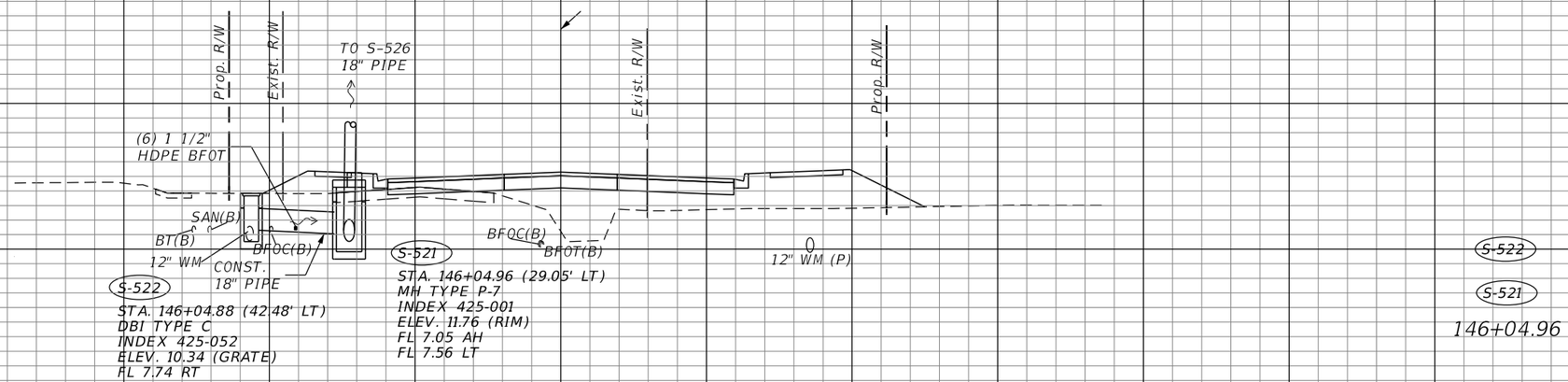
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 133





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

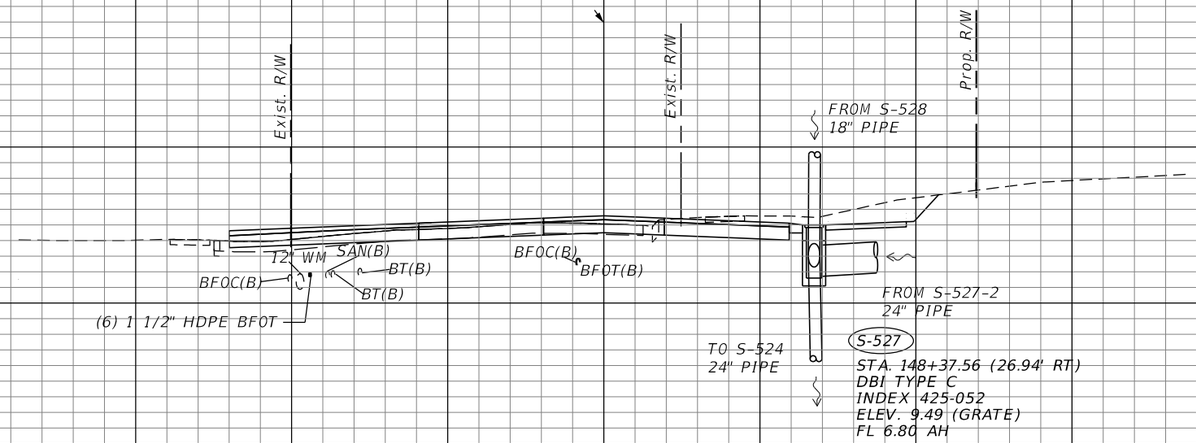
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

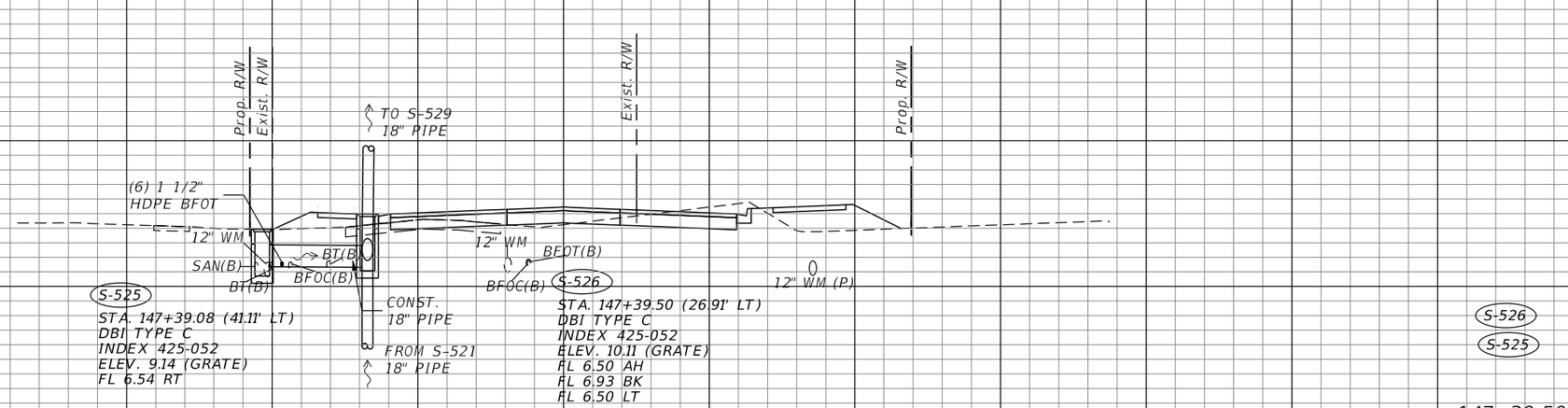
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 134





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

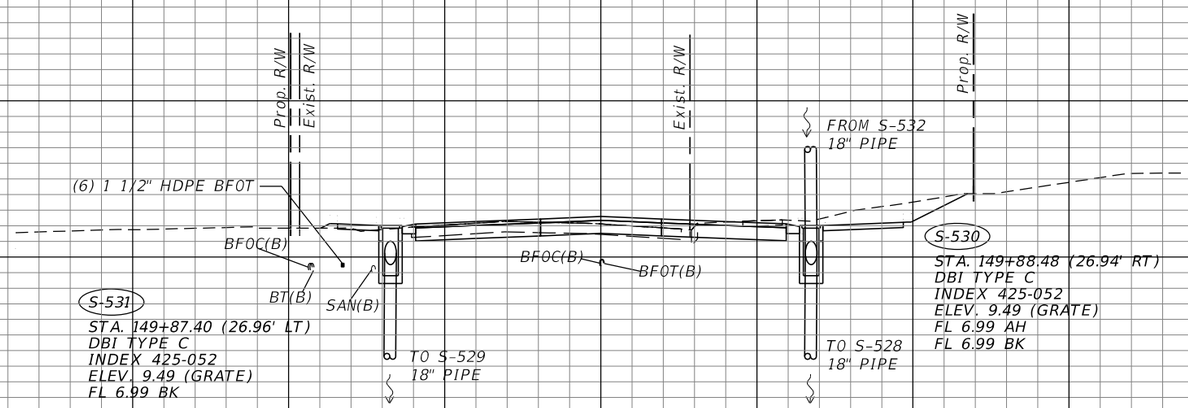
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

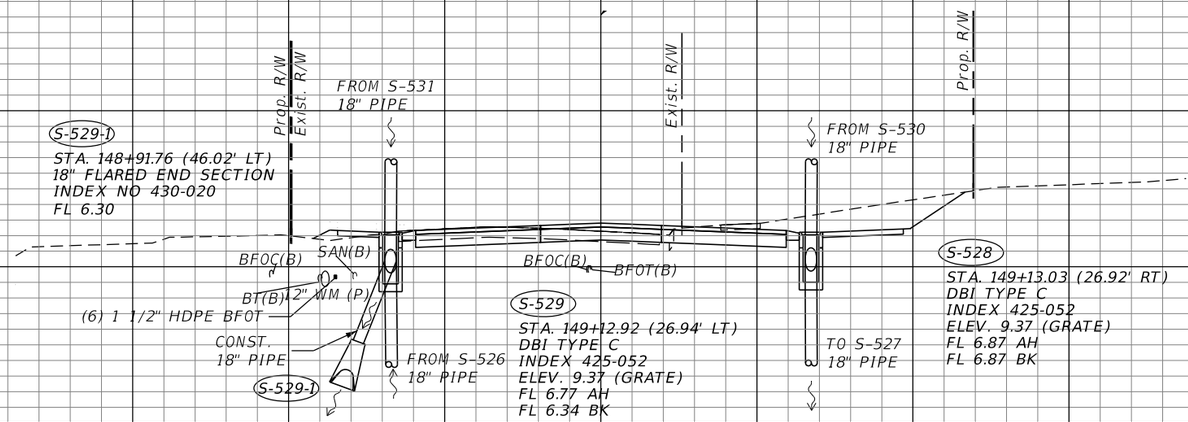
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 135





22 20 18 16 14 12 10 8 6 4 2 0

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

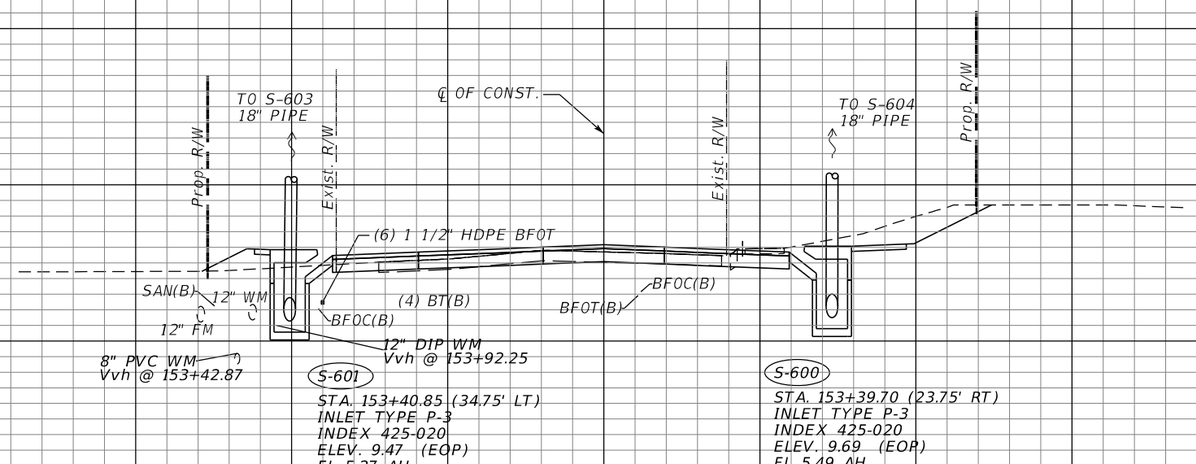
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

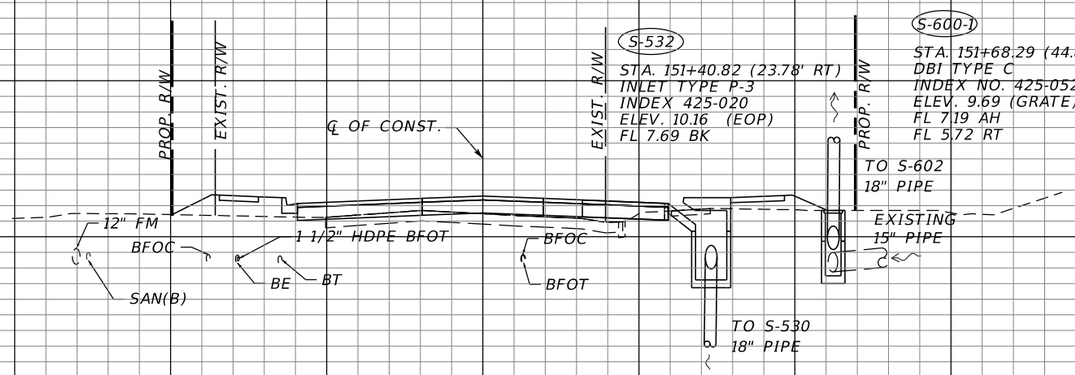
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 136





1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

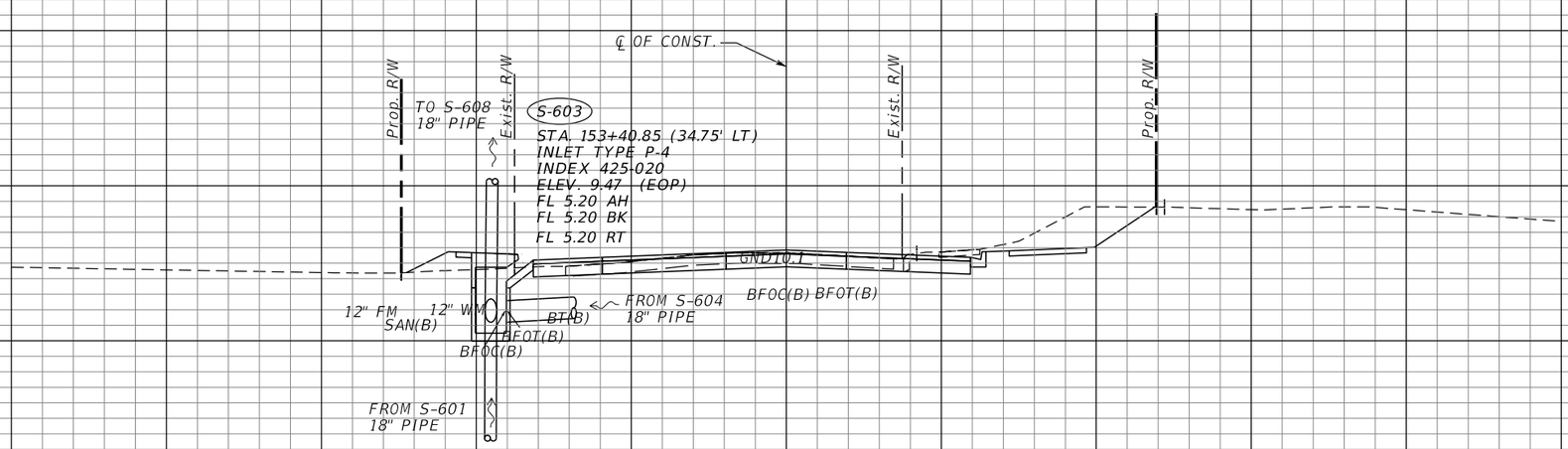
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

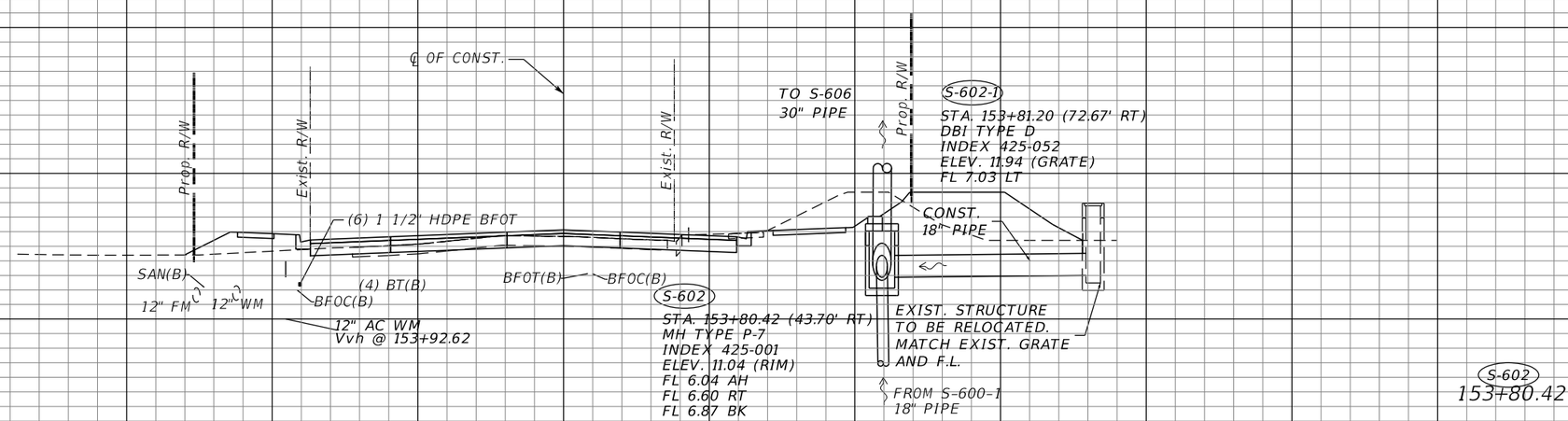
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 137



S-603
153+40.85



S-602
153+80.42

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

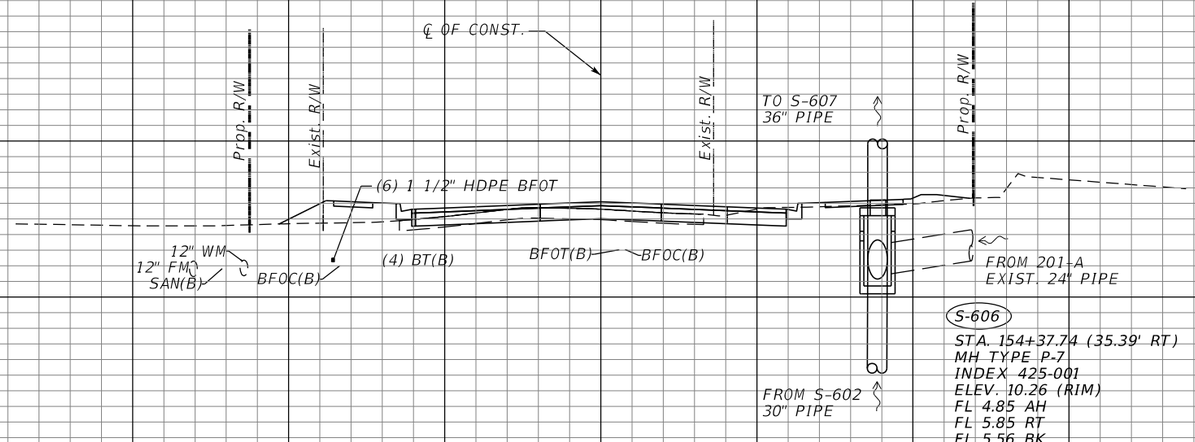
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

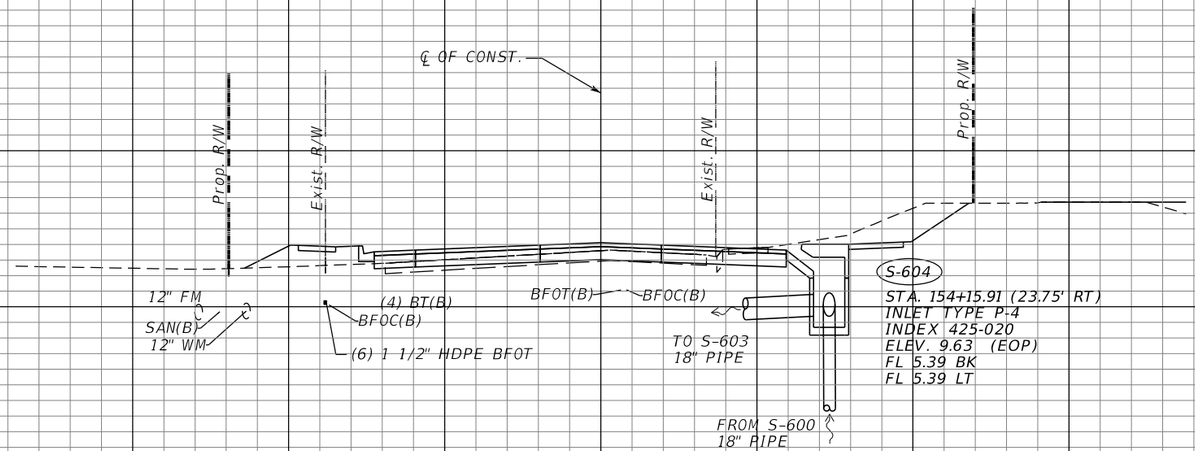
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 138





1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

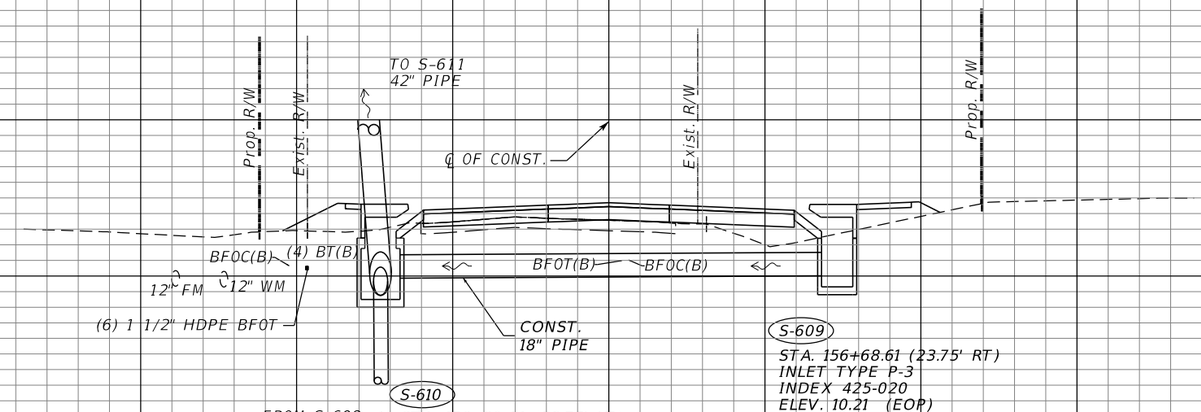
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
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400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

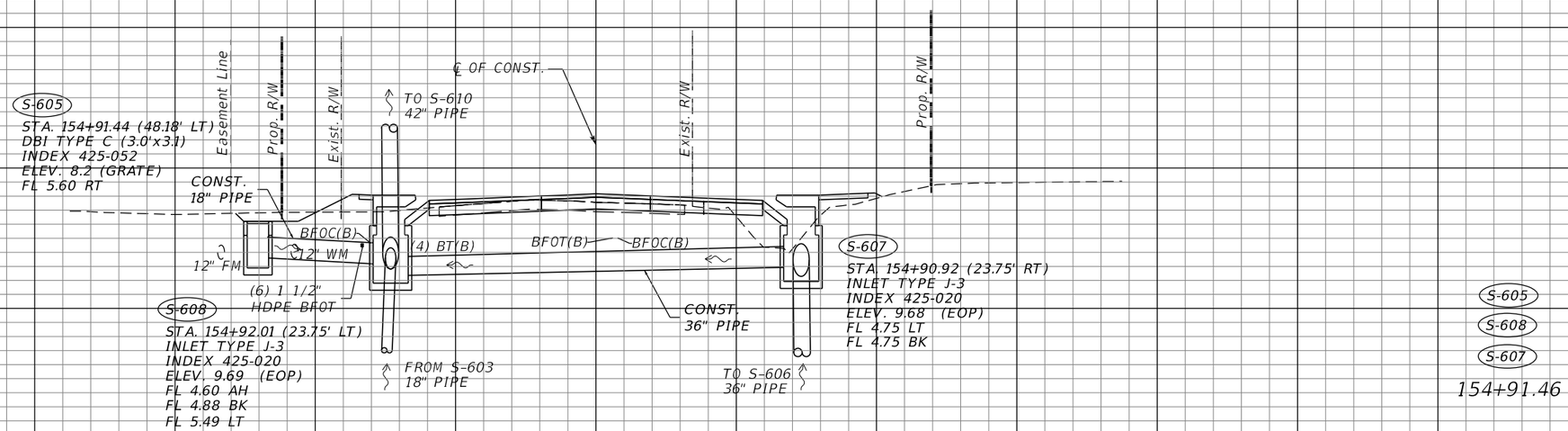
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 139





REVISIONS			
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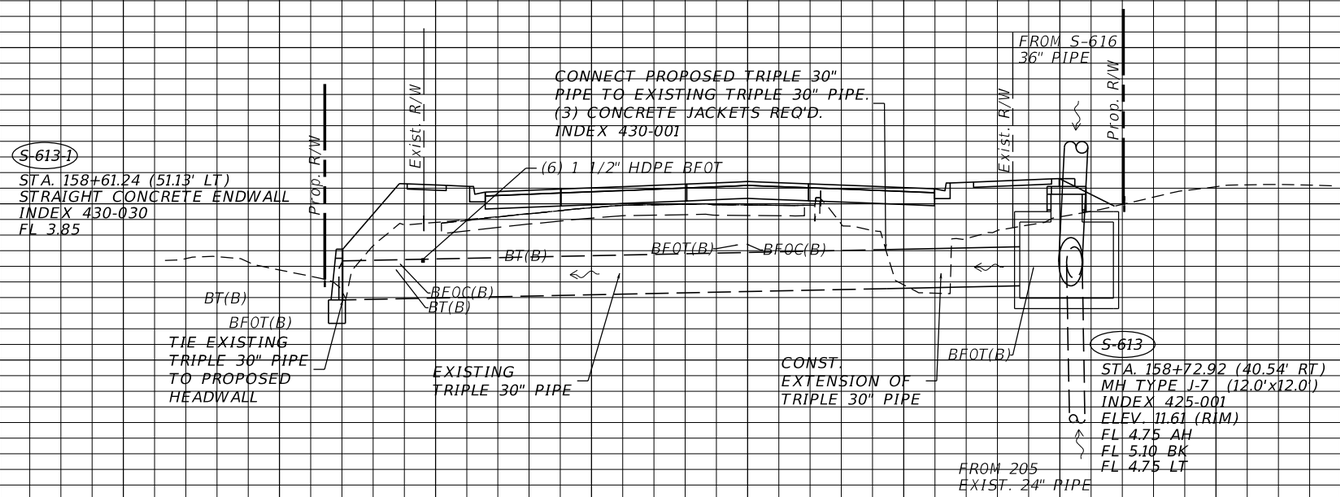
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CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 140



S-613-1

S-613

158+67.75

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

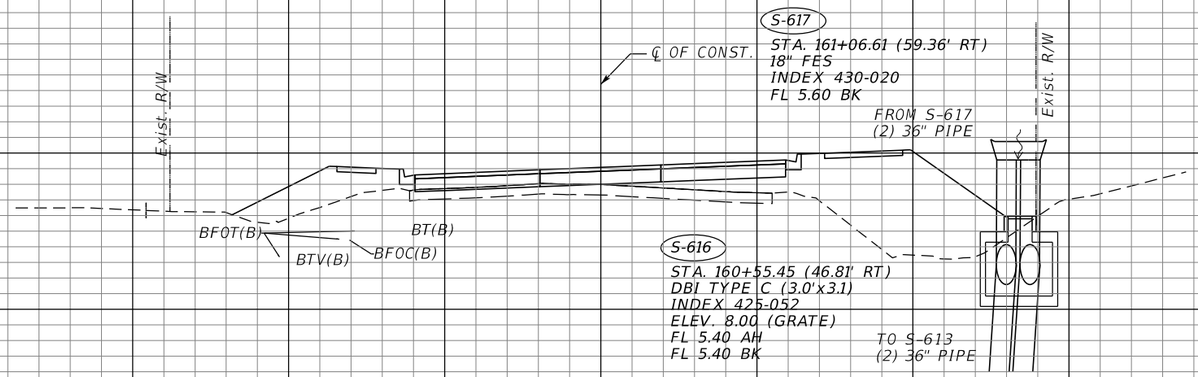
SEMINOLE COUNTY PUBLIC WORKS

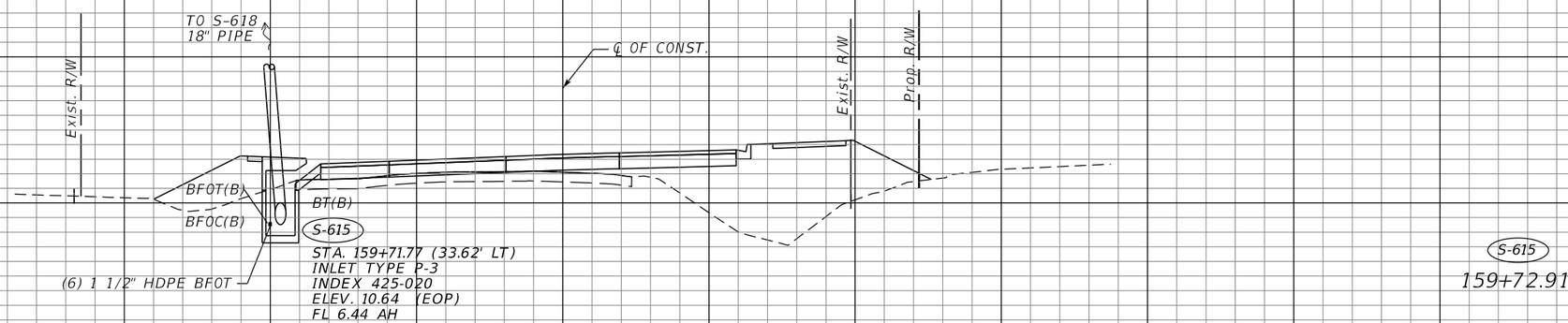
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 141

$USER$ $DATE$ $TIME$ $MODELNAME$ $FILE$





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

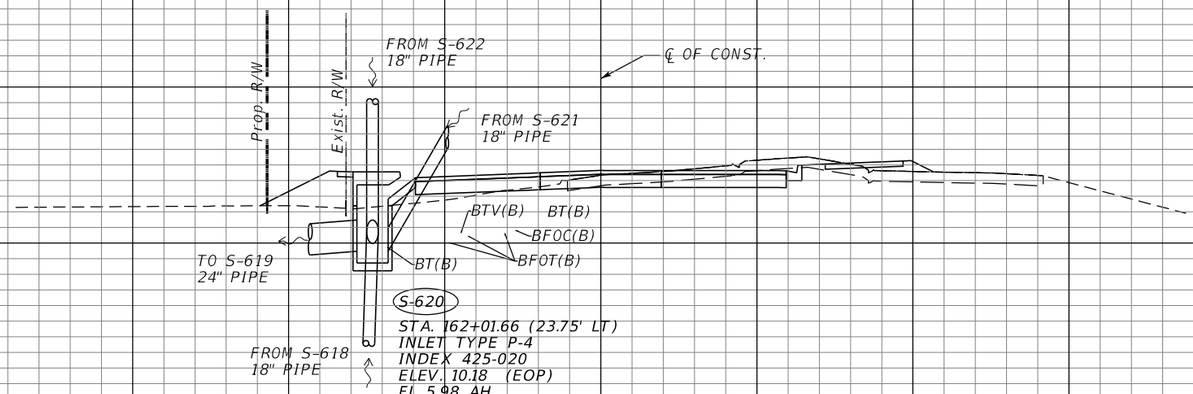
STEVEN D. COLLINS, P.E., Ph.D
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

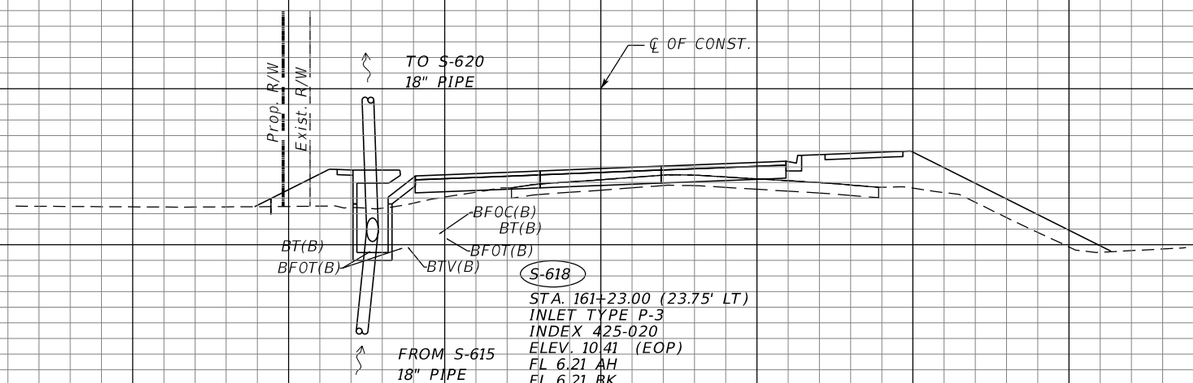
DRAINAGE STRUCTURES

SHEET NO. 142



S-620

162+01.66



161+23.00

S-618

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

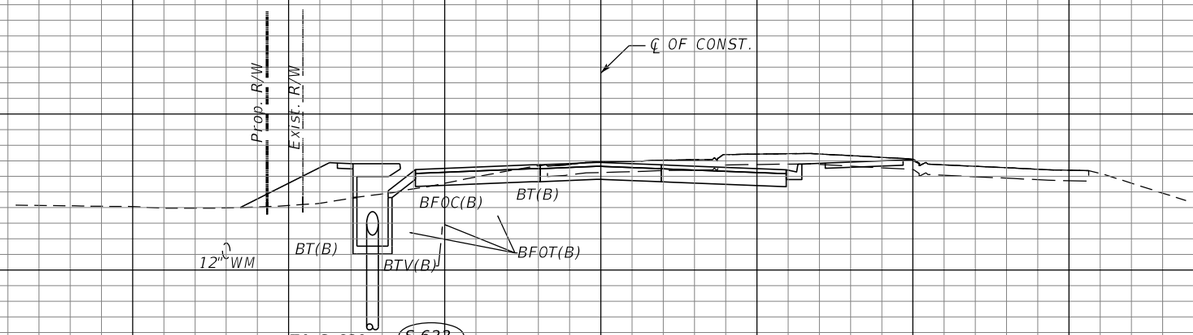
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CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

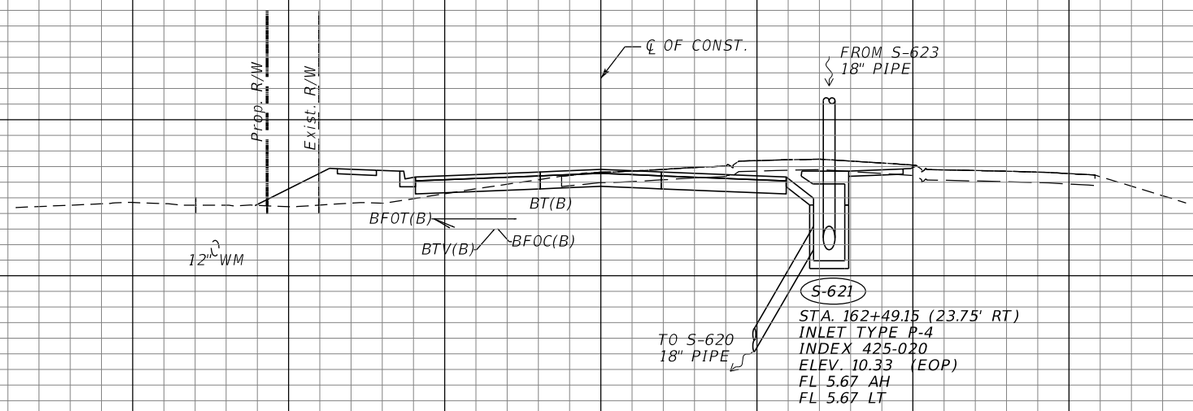
DRAINAGE STRUCTURES

SHEET NO. 143



S-622

162+76.71



162+49.15

S-621

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

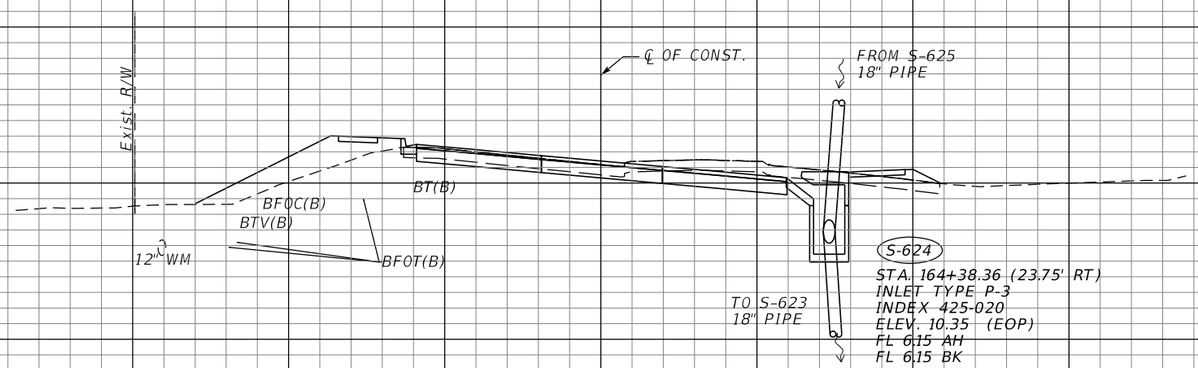
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
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400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

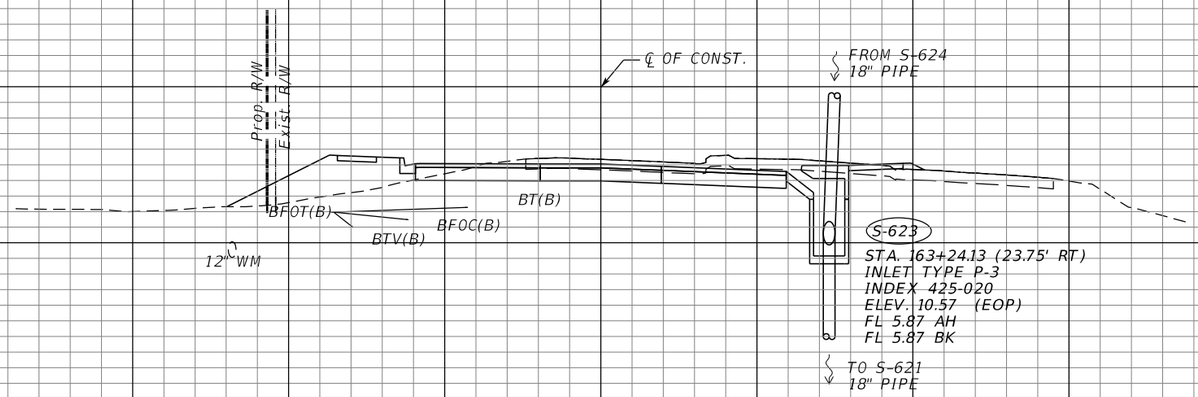
DRAINAGE STRUCTURES

SHEET NO. 144



S-624

164+38.36



S-623

163+24.13

1" = 20' Horizontal

1" = 10' Vertical

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

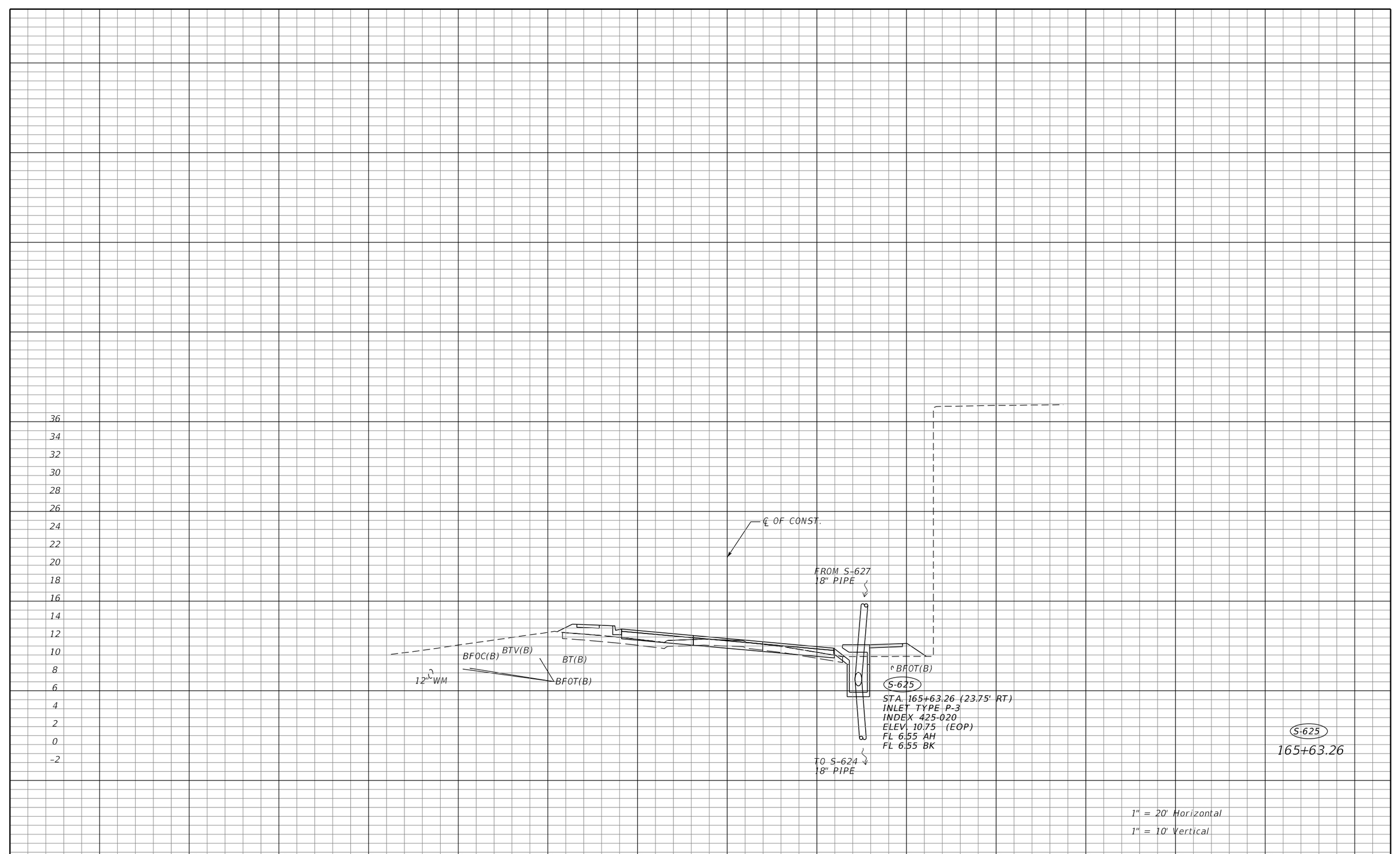
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
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LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 145



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

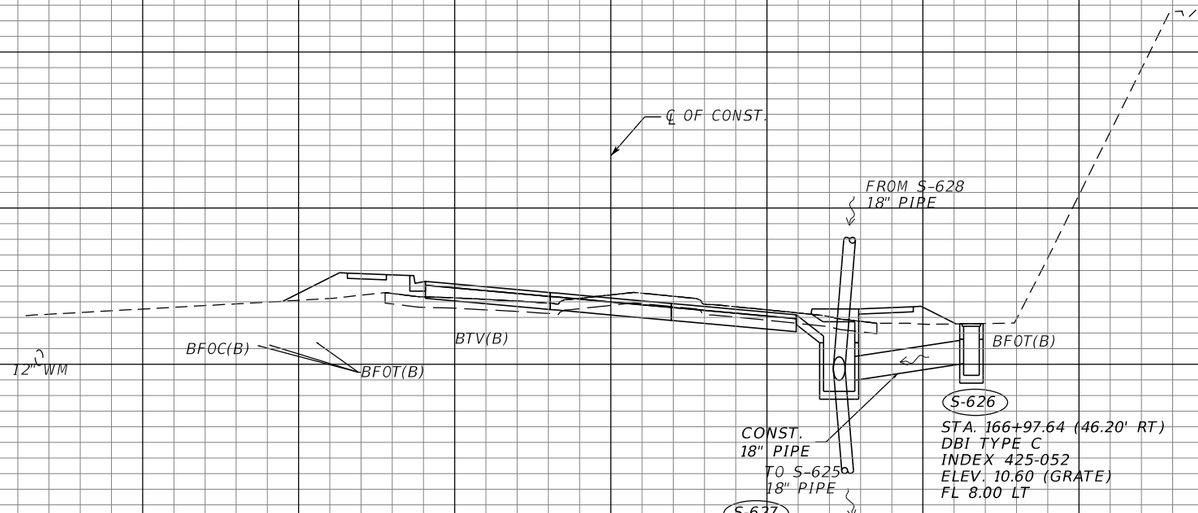
STEVEN D. COLLINS, P.E., Ph.D
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LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 146



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

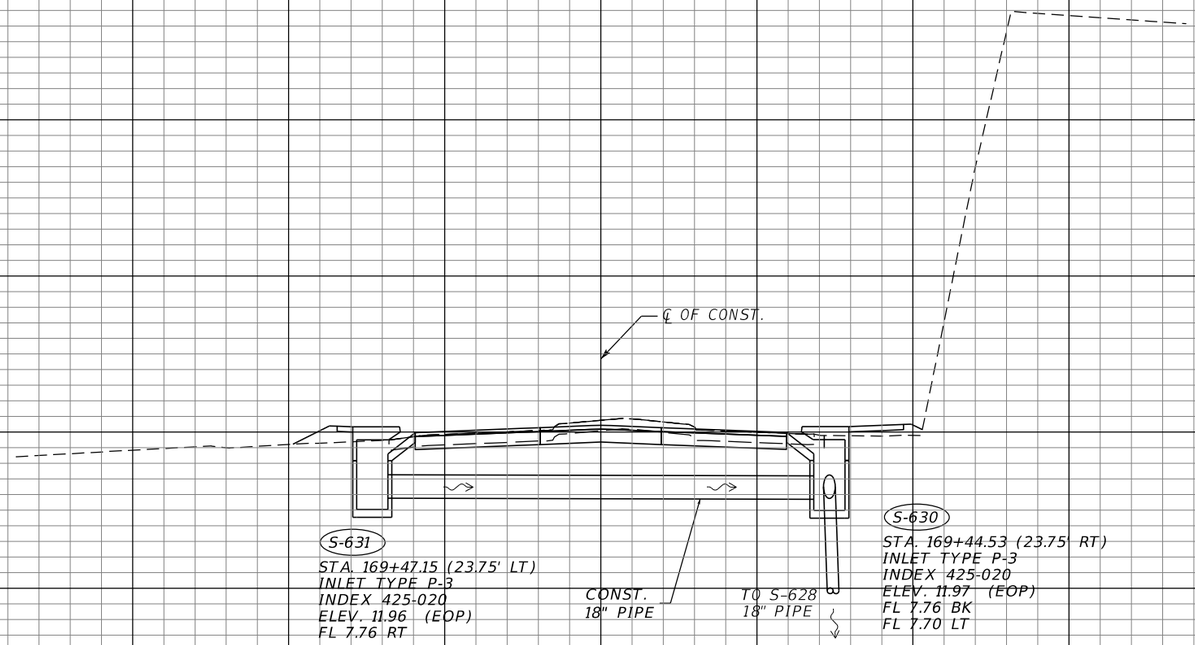
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

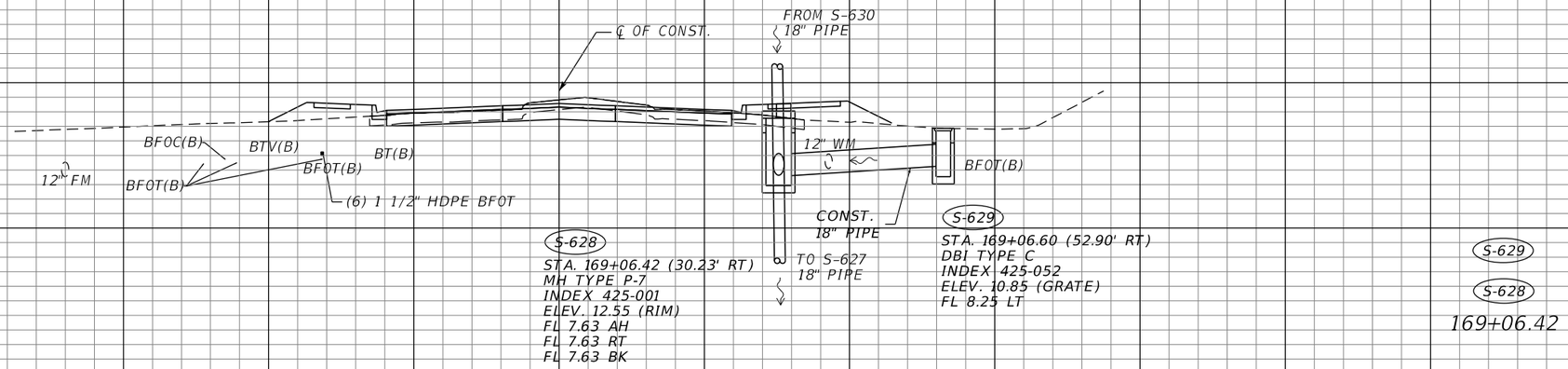
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

DRAINAGE STRUCTURES

SHEET NO. 147





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

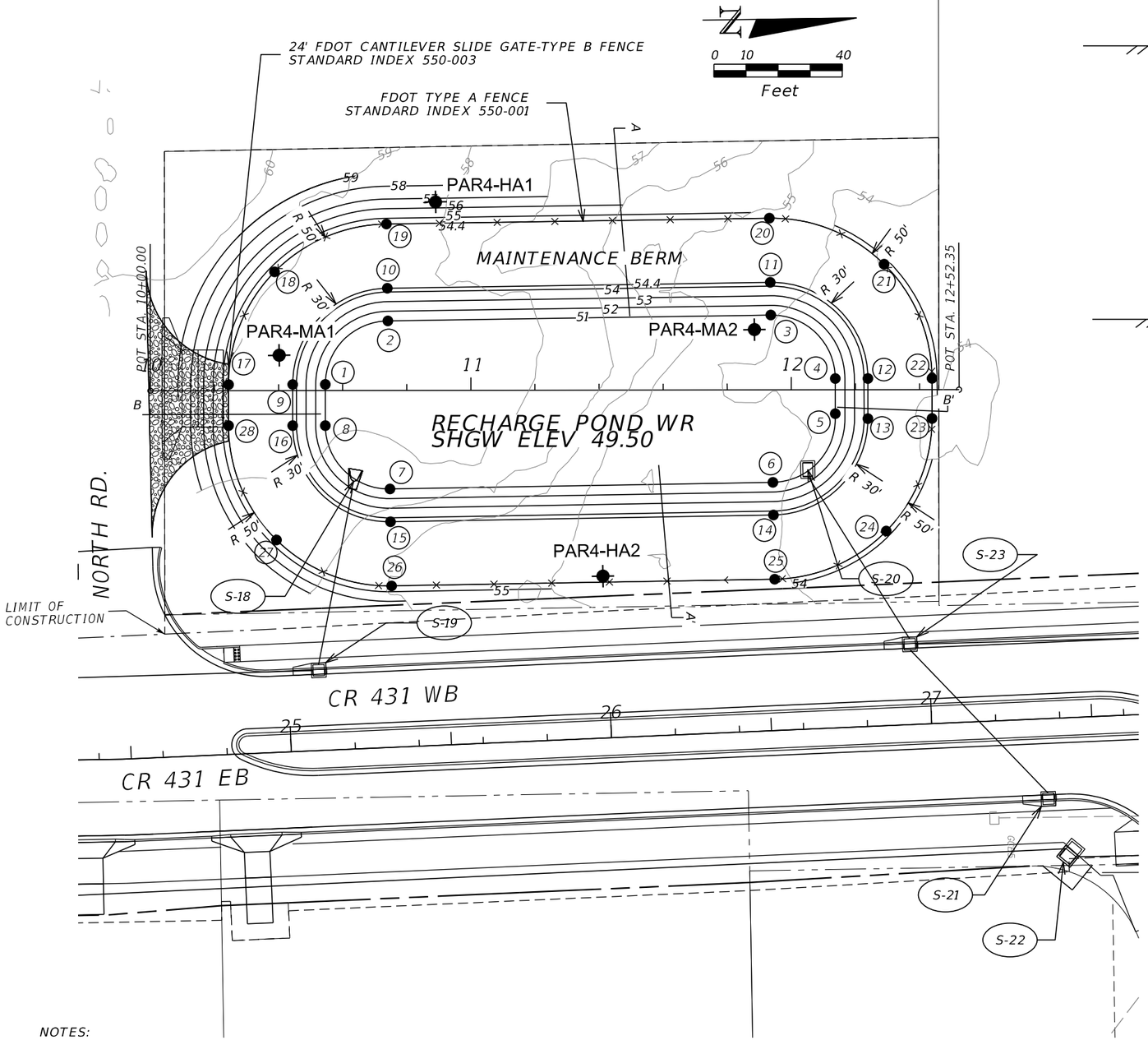
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

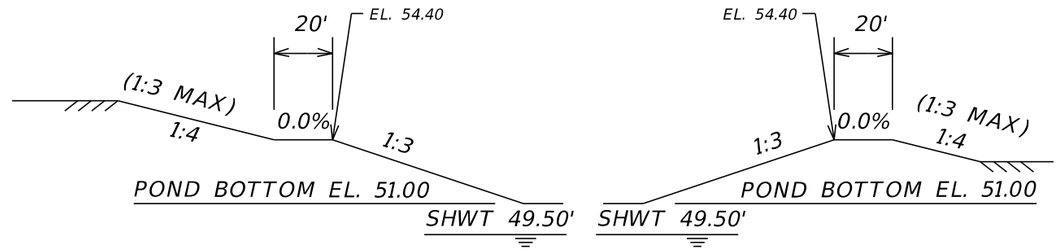
DRAINAGE STRUCTURES

SHEET NO. 148

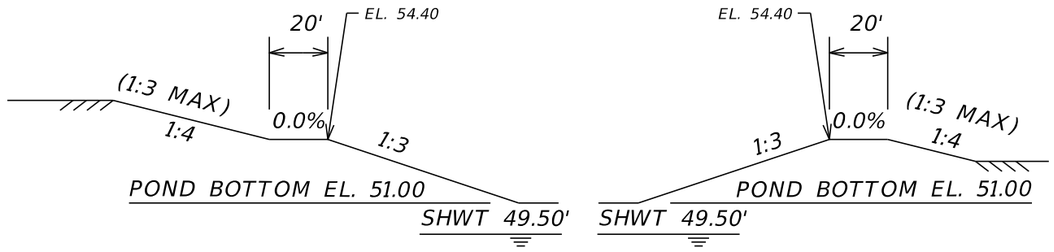


NOTES:
1) ADDITIONAL CONTROL STRUCTURE INFORMATION CAN BE FOUND IN THE TABLE LOCATED ON POND DETAIL SHEET 159

2) ⊕ BORING LOCATION



SECTION A-A'
NTS



SECTION B-B'
NTS

STAKEOUT TABLE			
POINT	STATION	OFFSET	EL.
1	10+54.60	1.89' LT	51.0
2	10+74.13	21.68' LT	51.0
3	11+93.59	26.33' LT	51.0
4	12+16.70	3.54' LT	51.0
5	12+13.70	7.45' RT	51.0
6	11+94.22	28.79' RT	51.0
7	10+74.71	30.72' RT	51.0
8	10+54.59	10.91' RT	51.0
9	10+44.40	1.90' LT	54.4
10	10+73.98	31.88' LT	54.4
11	11+93.49	33.53' LT	54.4
12	12+23.90	3.54' LT	54.4
13	12+23.90	8.99' RT	54.4
14	11+94.39	38.99' RT	54.4
15	10+74.88	40.92' RT	54.4
16	10+44.39	10.91' RT	54.4
17	10+24.40	1.91' LT	54.4
18	10+38.81	37.00' LT	54.4
19	10+73.71	51.88' LT	54.4
20	11+93.21	53.53' LT	54.4
21	12+29.01	39.14' LT	54.4
22	12+43.90	3.54' LT	54.4
23	12+43.90	8.99' RT	54.4
24	12+29.54	44.06' RT	54.4
25	11+94.71	58.98' RT	54.4
26	10+75.20	60.92' RT	54.4
27	10+39.31	46.56' RT	54.4
28	10+24.39	10.90' RT	54.4

POND WR-1
DHW EL. = 53.40' (25 YR/24 HR) WEIR. EL. = 52.30' SHW EL. = 49.50' BOTTOM EL. = 51.00'

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

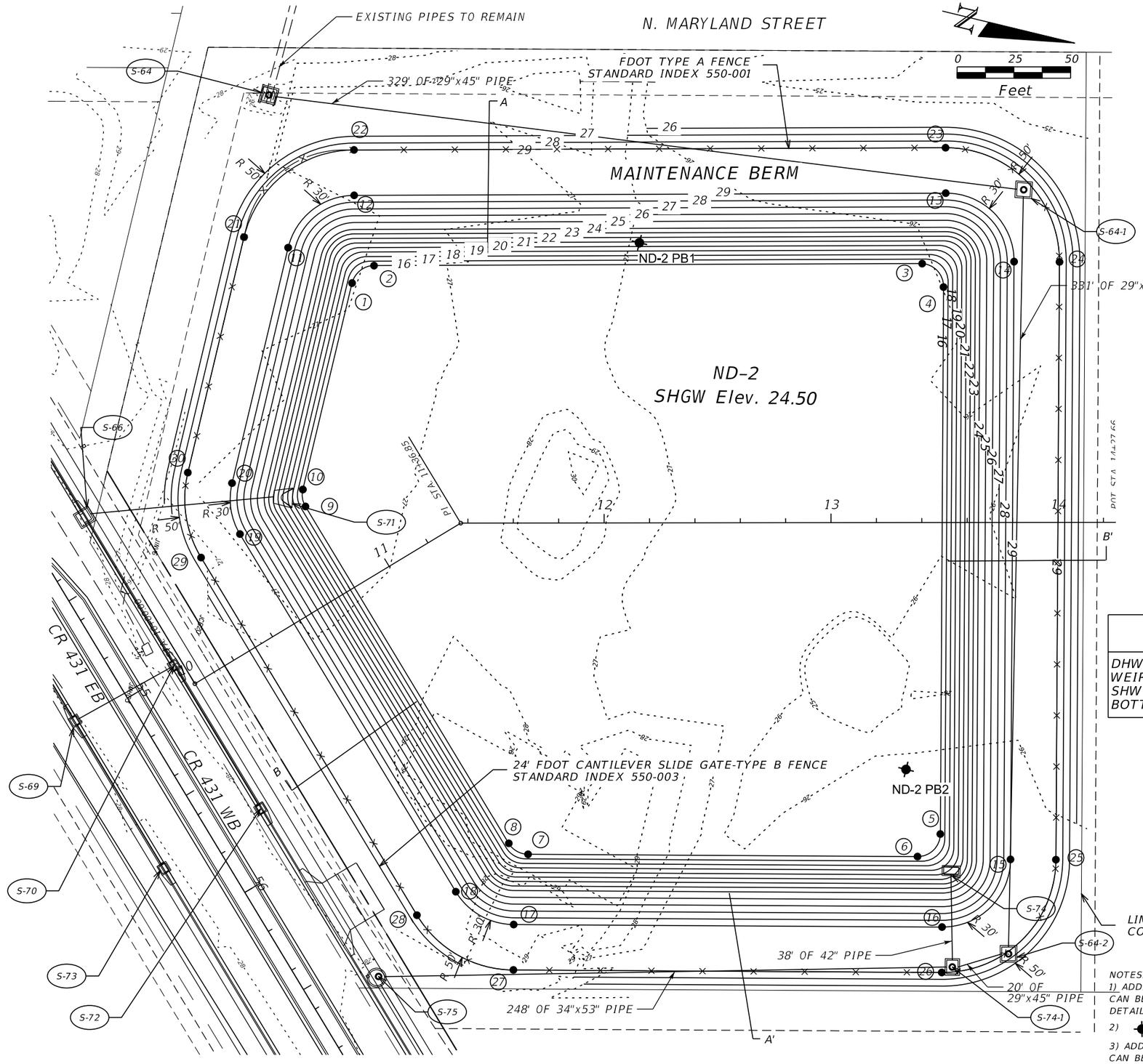
SEMINOLE COUNTY PUBLIC WORKS

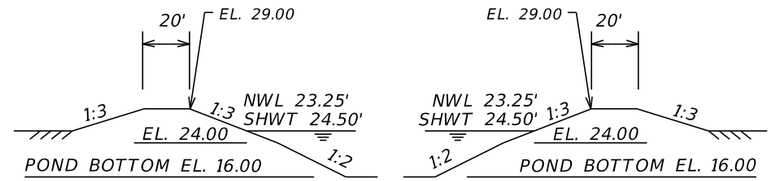
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND DETAIL (WR-1)

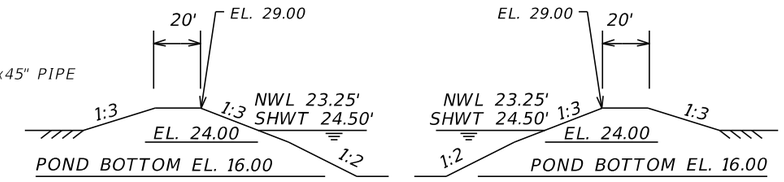
SHEET NO. 149

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2:19:08 PM
2/27/2025





SECTION A-A'



SECTION B-B'

NTS

STAKEOUT TABLE

POINT	STATION	OFFSET	EL.
1	11+36.85	116.44' LT	16.0
2	11+36.85	119.70' LT	16.0
3	13+39.69	114.06' LT	16.0
4	13+49.71	103.98' LT	16.0
5	13+47.96	137.23' RT	16.0
6	13+37.89	147.15' RT	16.0
7	10+86.85	140.20' RT	16.0
8	10+82.07	131.67' RT	16.0
9	10+82.07	41.64' LT	16.0
10	10+84.94	48.66' LT	16.0
11	11+34.48	143.20' LT	27.0
12	11+36.85	151.86' LT	27.0
13	13+50.72	145.08' LT	27.0
14	13+80.79	114.86' LT	27.0
15	13+78.88	148.45' RT	27.0
16	13+48.66	178.23' RT	27.0
17	10+65.41	163.43' RT	27.0
18	10+51.07	137.84' RT	27.0
19	10+51.07	46.15' LT	27.0
20	10+59.68	67.19' LT	27.0
21	11+20.22	157.23' LT	29.0
22	11+36.85	171.01' LT	29.0
23	13+50.68	165.08' LT	29.0
24	14+00.79	114.72' LT	29.0
25	13+98.88	148.60' RT	29.0
26	13+48.52	198.23' RT	29.0
27	10+54.97	180.49' RT	29.0
28	10+31.07	137.84' RT	29.0
29	10+31.07	46.15' LT	29.0
30	10+45.43	81.22' LT	29.0

POND ND-2

DHW EL. = 26.98(25 YR/24 HR)
WEIR. EL. = 23.75'
SHW EL. = 24.50'
BOTTOM EL. = 16.00'

NOTES:
1) ADDITIONAL CONTROL STRUCTURE INFORMATION CAN BE FOUND IN THE TABLE LOCATED ON POND DETAIL SHEET 159
2) ✦ BORING LOCATION
3) ADDITIONAL DRAINAGE STRUCTURE INFORMATION CAN BE FOUND IN THE DRAINAGE STRUCTURE TABLE ON POND DETAIL SHEET 159

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION
09/23	RESIZED POND AND ADDED 1:2 SLOPE TO 2' BELOW NWL		

STEVEN D. COLLINS, P.E., Ph.D.
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LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

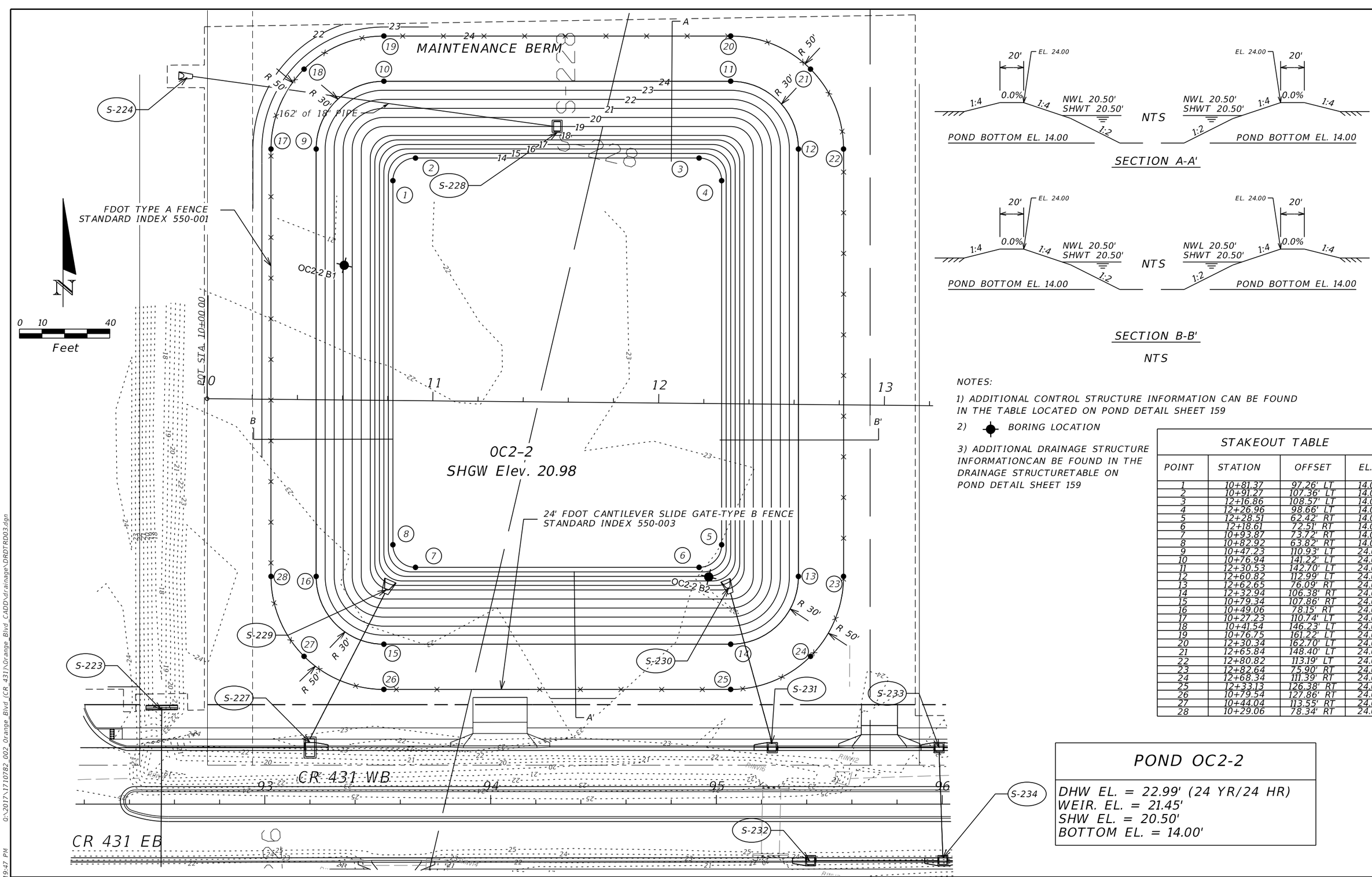
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND DETAIL (ND-2)

SHEET NO. 150

O:\2017\1710782_002_Orange_Blvd_(CR_431)\Orange_Blvd_CADD\drainage\DRDTR002.dgn
2:19:22 PM
2/27/2025



SECTION A-A'

SECTION B-B'

NTS

NOTES:

1) ADDITIONAL CONTROL STRUCTURE INFORMATION CAN BE FOUND IN THE TABLE LOCATED ON POND DETAIL SHEET 159

2) BORING LOCATION

3) ADDITIONAL DRAINAGE STRUCTURE INFORMATIONCAN BE FOUND IN THE DRAINAGE STRUCTURETABLE ON POND DETAIL SHEET 159

STAKEOUT TABLE

POINT	STATION	OFFSET	EL.
1	10+81.37	97.26' LT	14.0
2	10+91.27	107.36' LT	14.0
3	12+16.86	108.57' LT	14.0
4	12+26.96	98.66' LT	14.0
5	12+28.51	62.42' RT	14.0
6	12+18.61	72.51' RT	14.0
7	10+93.87	73.72' RT	14.0
8	10+82.92	63.82' RT	14.0
9	10+47.23	110.93' LT	24.0
10	10+76.94	141.22' LT	24.0
11	12+30.53	142.70' LT	24.0
12	12+60.82	112.99' LT	24.0
13	12+62.65	76.09' RT	24.0
14	12+32.94	106.38' RT	24.0
15	10+79.34	107.86' RT	24.0
16	10+49.06	78.15' RT	24.0
17	10+27.23	110.74' LT	24.0
18	10+41.54	146.23' LT	24.0
19	10+76.75	161.22' LT	24.0
20	12+30.34	162.70' LT	24.0
21	12+65.84	148.40' LT	24.0
22	12+80.82	113.19' LT	24.0
23	12+82.64	75.90' RT	24.0
24	12+68.34	111.39' RT	24.0
25	12+33.13	126.38' RT	24.0
26	10+79.54	127.86' RT	24.0
27	10+44.04	113.55' RT	24.0
28	10+29.06	78.34' RT	24.0

POND OC2-2

DHW EL. = 22.99' (24 YR/24 HR)
WEIR. EL. = 21.45'
SHW EL. = 20.50'
BOTTOM EL. = 14.00'

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

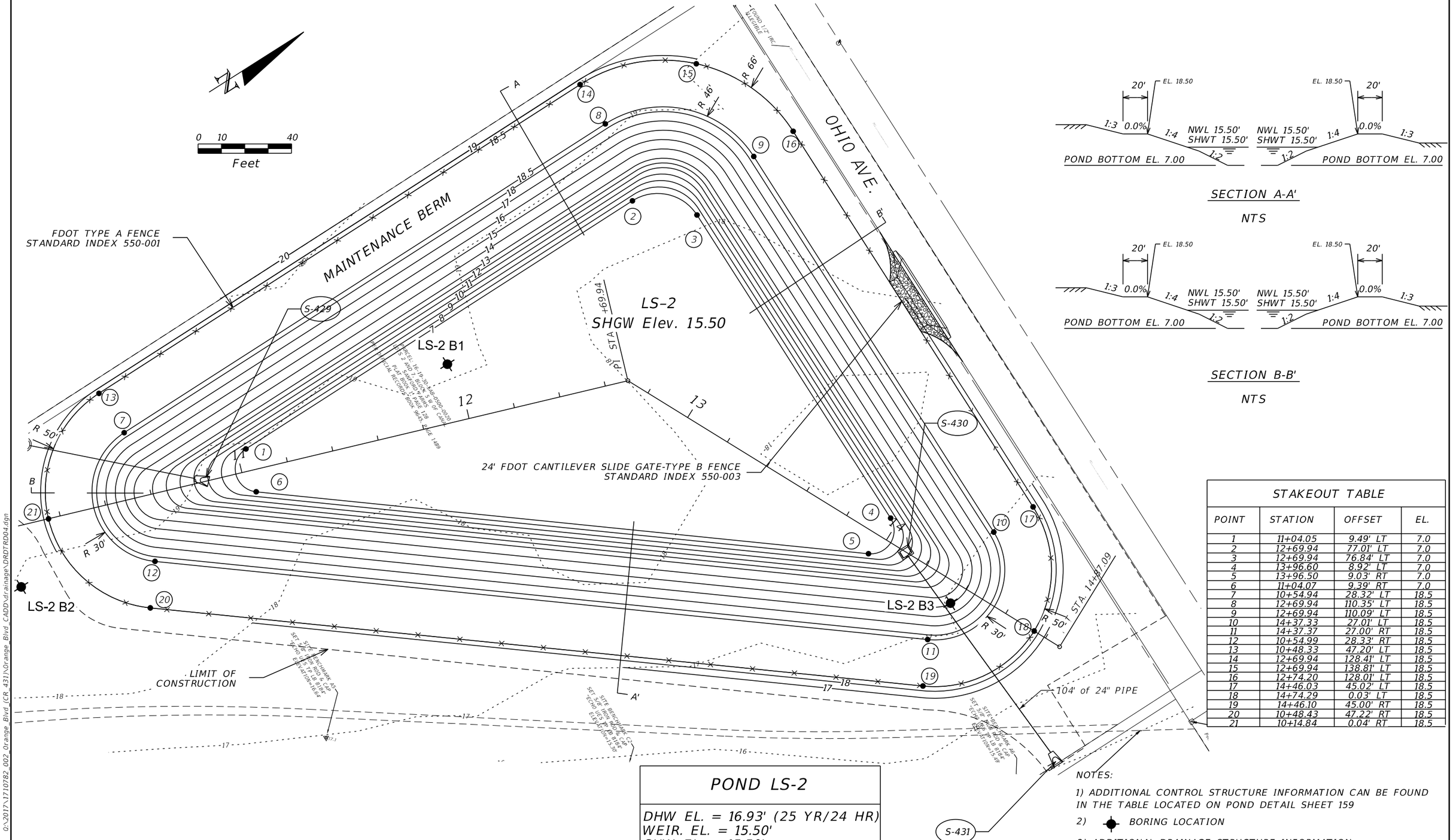
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND DETAIL (OC2-2)

SHEET NO. 151

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SECTION A-A'

NTS

SECTION B-B'

NTS

STAKEOUT TABLE			
POINT	STATION	OFFSET	EL.
1	11+04.05	9.49' LT	7.0
2	12+69.94	77.01' LT	7.0
3	12+69.94	76.84' LT	7.0
4	13+96.60	8.92' LT	7.0
5	13+96.50	9.03' RT	7.0
6	11+04.07	9.39' RT	7.0
7	10+54.94	28.32' LT	18.5
8	12+69.94	110.35' LT	18.5
9	12+69.94	110.09' LT	18.5
10	14+37.33	27.01' LT	18.5
11	14+37.37	27.00' RT	18.5
12	10+54.99	28.33' RT	18.5
13	10+48.33	47.20' LT	18.5
14	12+69.94	128.41' LT	18.5
15	12+69.94	138.81' LT	18.5
16	12+74.20	128.01' LT	18.5
17	14+46.03	45.02' LT	18.5
18	14+74.29	0.03' LT	18.5
19	14+46.10	45.00' RT	18.5
20	10+48.43	47.22' RT	18.5
21	10+14.84	0.04' RT	18.5

POND LS-2

DHW EL. = 16.93' (25 YR/24 HR)
WEIR. EL. = 15.50'
SHW EL. = 15.50'
BOTTOM EL. = 7.00'

NOTES:

1) ADDITIONAL CONTROL STRUCTURE INFORMATION CAN BE FOUND IN THE TABLE LOCATED ON POND DETAIL SHEET 159

2) ✦ BORING LOCATION

3) ADDITIONAL DRAINAGE STRUCTURE INFORMATION CAN BE FOUND IN THE DRAINAGE STRUCTURE TABLE ON POND DETAIL SHEET XXX

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

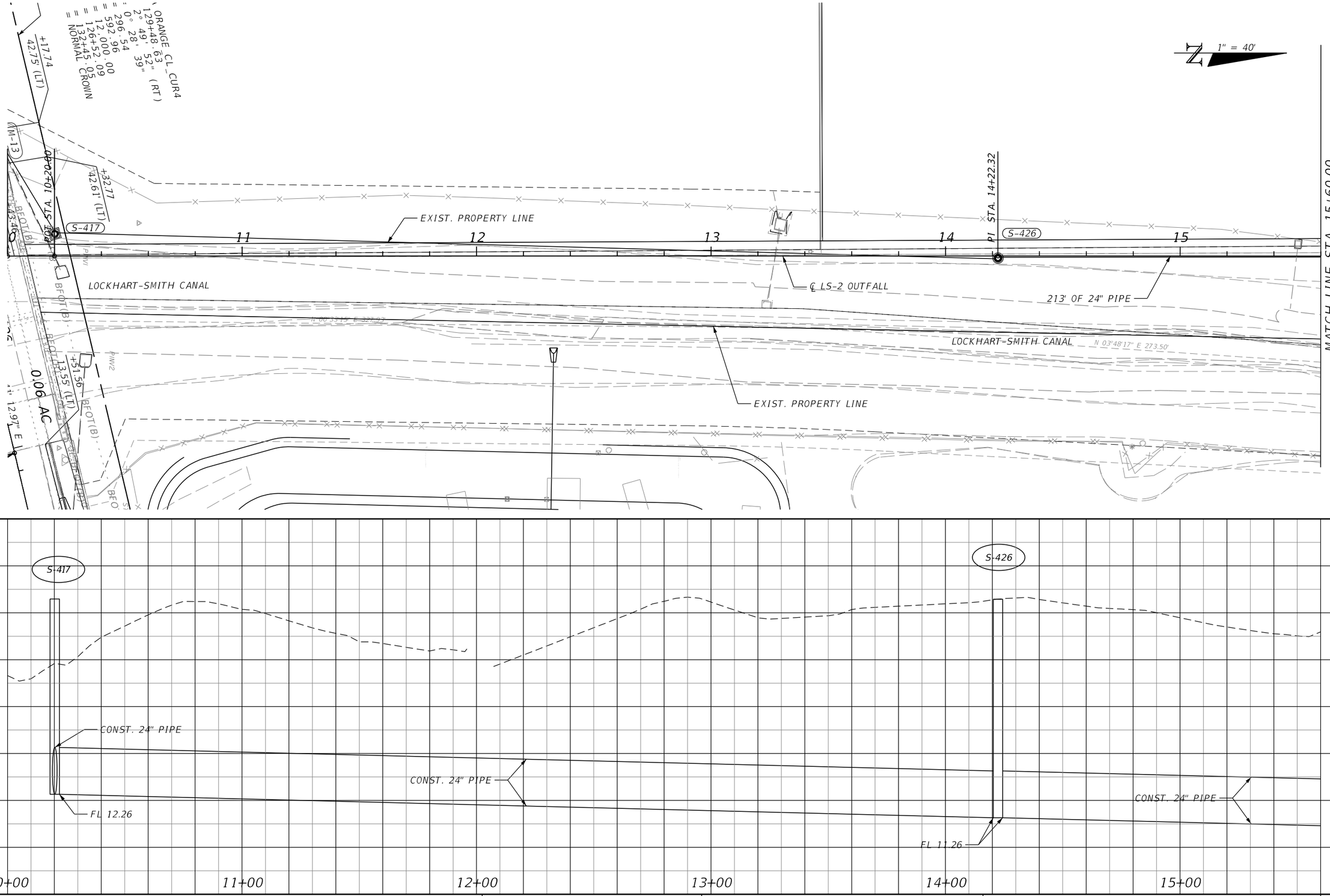
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND DETAIL (LS-2)

SHEET NO. 152

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2/27/2025



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

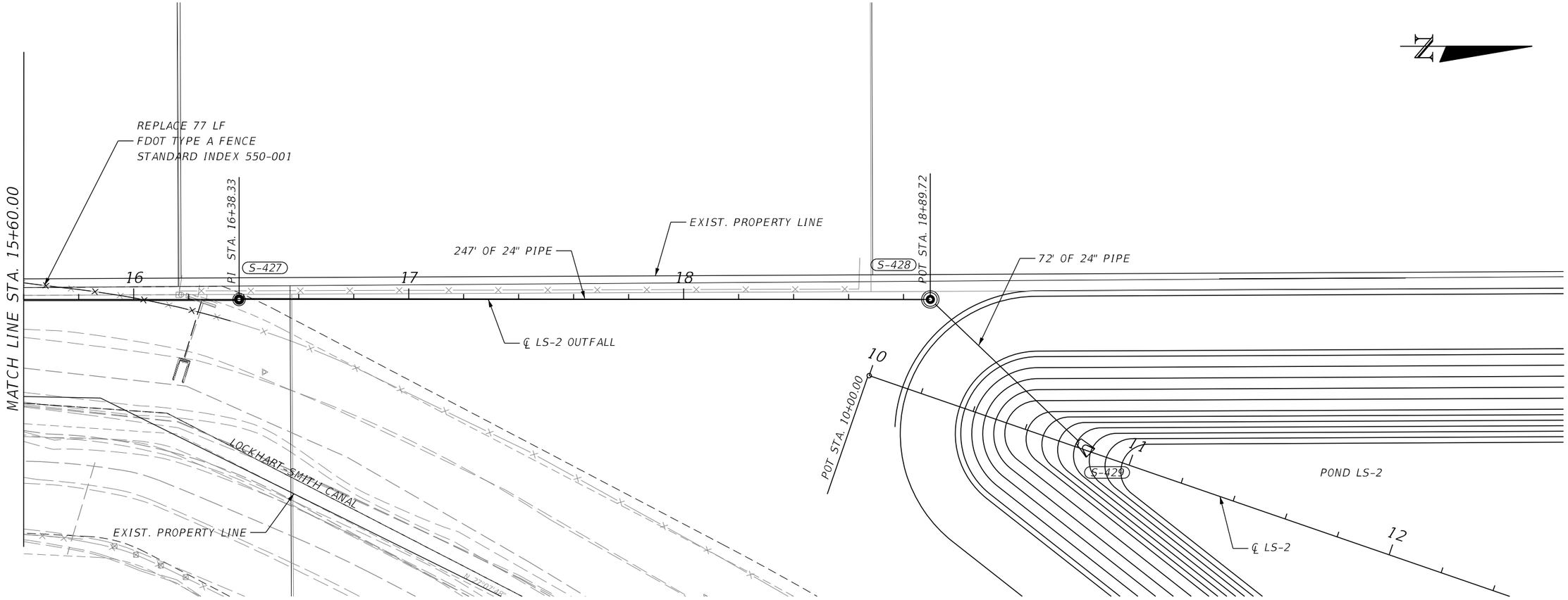
SEMINOLE COUNTY PUBLIC WORKS

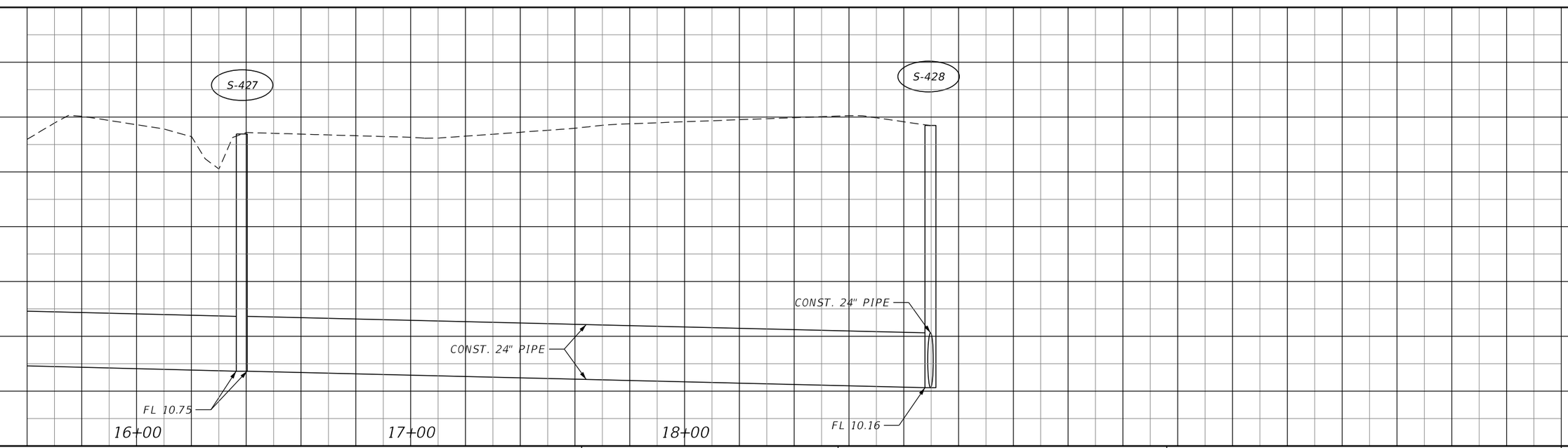
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND DETAIL (LS-2 OUTFALL)

SHEET NO. 153

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





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

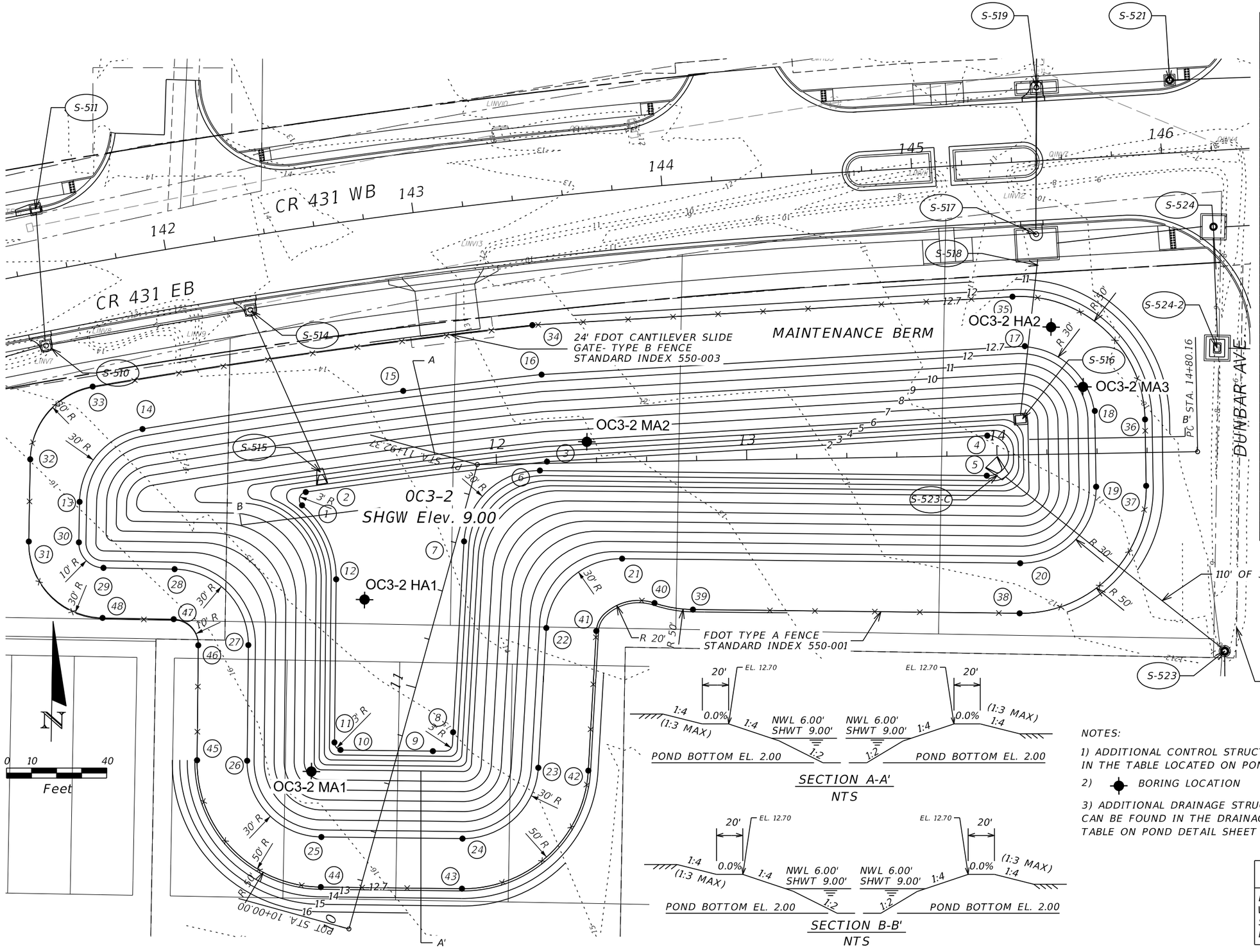
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND DETAIL (LS-2 OUTFALL)

SHEET NO. 154

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



STAKEOUT TABLE

POINT	STATION	OFFSET	EL.
1	11+58.04	63.15 LT	2.0
2	11+63.52	63.11 LT	2.0
3	12+20.22	0.68 LT	2.0
4	13+96.61	7.92 LT	2.0
5	13+96.08	8.07 RT	2.0
6	12+17.33	2.83 RT	2.0
7	11+61.41	3.07 RT	2.0
8	10+82.14	20.17 RT	2.0
9	10+78.61	18.01 RT	2.0
10	10+68.09	21.76 LT	2.0
11	10+70.23	25.43 LT	2.0
12	11+33.19	42.13 LT	2.0
13	11+35.67	149.17 LT	12.7
14	11+70.38	132.71 LT	12.7
15	11+92.37	41.74 LT	12.7
16	12+17.93	35.41 LT	12.7
17	14+08.16	43.23 LT	12.7
18	14+39.39	13.25 LT	12.7
19	14+39.39	13.25 RT	12.7
20	14+08.51	43.24 RT	12.7
21	12+49.53	38.59 RT	12.7
22	11+36.25	44.10 RT	12.7
23	10+82.20	55.76 RT	12.7
24	10+46.86	34.10 RT	12.7
25	10+32.46	20.40 LT	12.7
26	10+53.69	57.04 LT	12.7
27	10+98.54	68.94 LT	12.7
28	11+19.90	105.43 LT	12.7
29	11+12.81	132.96 LT	12.7
30	11+20.00	145.14 LT	12.7
31	11+15.01	164.50 LT	12.7
32	11+46.78	172.69 LT	12.7
33	11+81.42	156.38 LT	12.7
34	12+16.61	55.38 LT	12.7
35	14+07.34	63.21 LT	12.7
36	14+59.39	13.25 LT	12.7
37	14+59.39	13.25 RT	12.7
38	14+07.93	63.23 RT	12.7
39	12+77.48	59.42 RT	12.7
40	12+62.18	56.54 RT	12.7
41	11+41.01	63.53 RT	12.7
42	10+86.41	75.31 RT	12.7
43	11+81.42	39.21 RT	12.7
44	10+13.12	15.29 LT	12.7
45	10+48.75	76.43 LT	12.7
46	10+93.42	88.27 LT	12.7
47	11+00.54	100.44 LT	12.7
48	10+93.44	127.97 LT	12.7

SECTION A-A'
NTS

SECTION B-B'
NTS

NOTES:

1) ADDITIONAL CONTROL STRUCTURE INFORMATION CAN BE FOUND IN THE TABLE LOCATED ON POND DETAIL SHEET 159

2) BORING LOCATION

3) ADDITIONAL DRAINAGE STRUCTURE INFORMATION CAN BE FOUND IN THE DRAINAGE STRUCTURE TABLE ON POND DETAIL SHEET 159

POND OC3-2

DHW EL. = 11.72' (25 YR/24 HR)
WEIR. EL. = 6.50'
SHW EL. = 9.00'
BOTTOM EL. = 2.00'

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

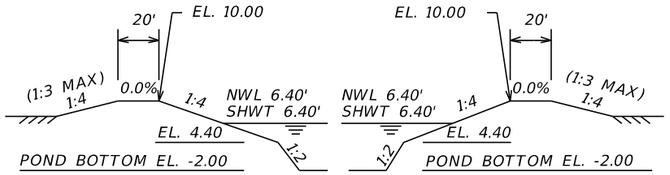
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND DETAIL (OC3-2)

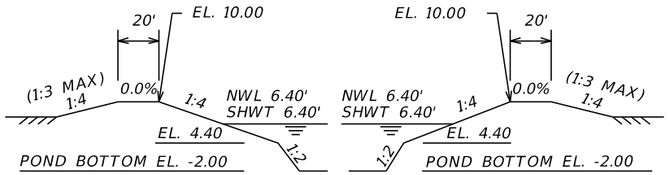
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SECTION A-A'

NTS



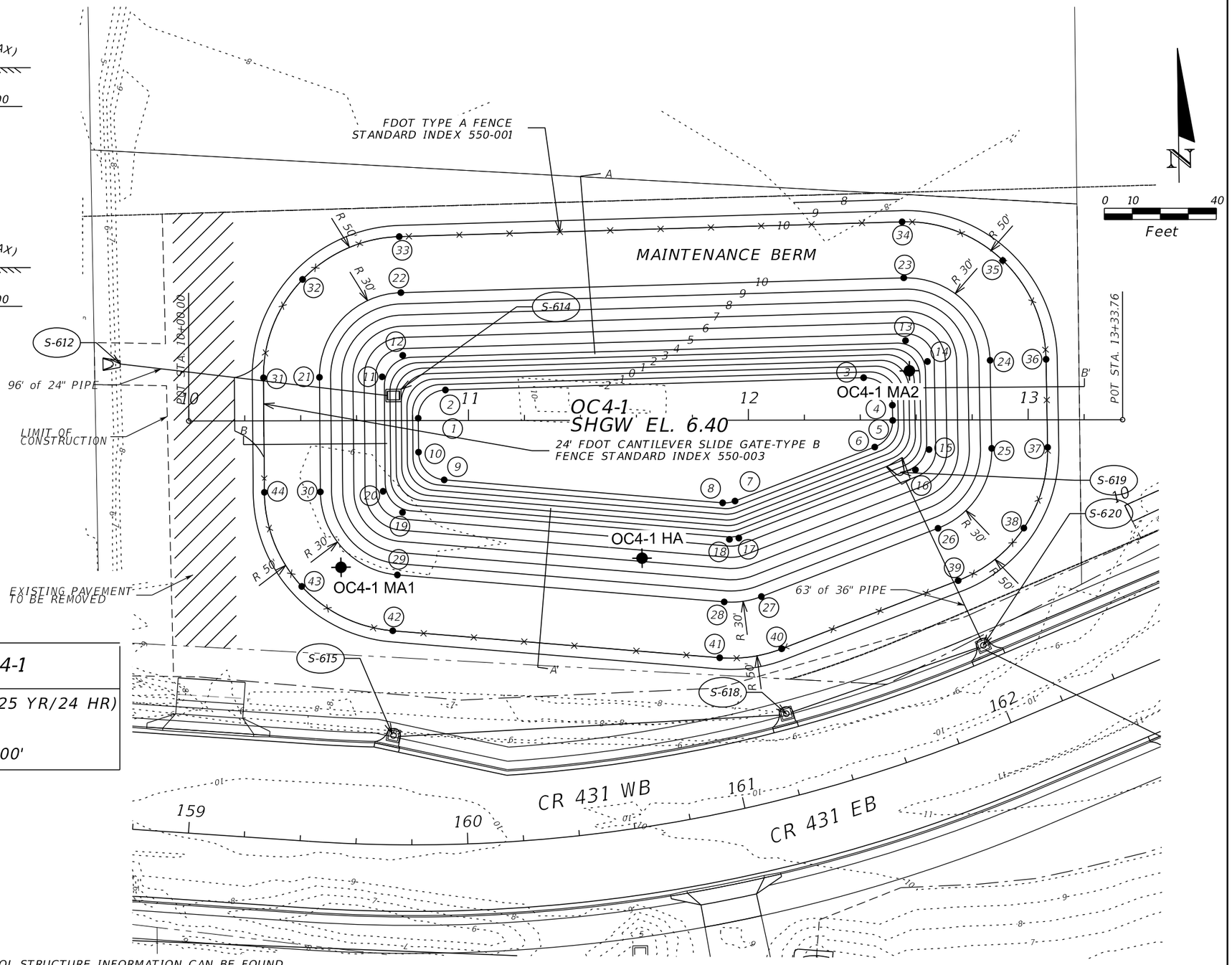
SECTION B-B'

NTS

STAKEOUT TABLE			
POINT	STATION	OFFSET	EL.
1	10+82.02	0.89' LT	-2.0
2	10+91.74	10.95' LT	-2.0
3	12+41.21	15.13' LT	-2.0
4	12+51.49	5.30' LT	-2.0
5	12+51.58	0.13' LT	-2.0
6	12+45.17	9.63' RT	-2.0
7	11+95.19	28.84' RT	-2.0
8	11+90.77	29.48' RT	-2.0
9	10+91.27	21.13' RT	-2.0
10	10+82.10	11.23' RT	-2.0
11	10+69.12	15.68' LT	4.4
12	10+76.51	23.33' LT	4.4
13	12+56.22	28.36' LT	4.4
14	12+64.03	20.89' LT	4.4
15	12+64.55	10.54' RT	4.4
16	12+59.68	17.76' RT	4.4
17	11+96.53	42.04' RT	4.4
18	11+93.17	42.52' RT	4.4
19	10+76.36	32.72' RT	4.4
20	10+69.39	25.20' RT	4.4
21	10+46.72	15.53' LT	10.0
22	10+75.88	45.72' LT	10.0
23	12+55.59	50.75' LT	10.0
24	12+86.43	21.26' LT	10.0
25	12+86.95	10.17' RT	10.0
26	12+67.72	38.67' RT	10.0
27	12+04.57	62.95' RT	10.0
28	11+91.30	64.84' RT	10.0
29	10+74.49	55.04' RT	10.0
30	10+46.99	25.35' RT	10.0
31	10+26.72	15.40' LT	10.0
32	10+40.76	50.47' LT	10.0
33	10+75.32	65.72' LT	10.0
34	12+55.04	70.74' LT	10.0
35	12+90.99	56.90' LT	10.0
36	13+06.43	21.59' LT	10.0
37	13+06.95	9.84' RT	10.0
38	12+98.40	38.63' RT	10.0
39	12+74.90	57.34' RT	10.0
40	12+11.75	81.62' RT	10.0
41	11+89.63	84.77' RT	10.0
42	10+72.81	74.97' RT	10.0
43	10+40.30	59.12' RT	10.0
44	10+27.00	25.49' RT	10.0

POND OC4-1

DHW EL. = 8.81' (25 YR/24 HR)
WEIR. EL. = 7.40'
SHW EL. = 6.40'
BOTTOM EL. = -2.00'



NOTES:

1) ADDITIONAL CONTROL STRUCTURE INFORMATION CAN BE FOUND IN THE TABLE LOCATED ON POND DETAIL SHEET 159

2) ⌖ BORING LOCATION

3) ADDITIONAL DRAINAGE STRUCTURE INFORMATION CAN BE FOUND IN THE DRAINAGE STRUCTURE TABLE ON POND DETAIL SHEET 159

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

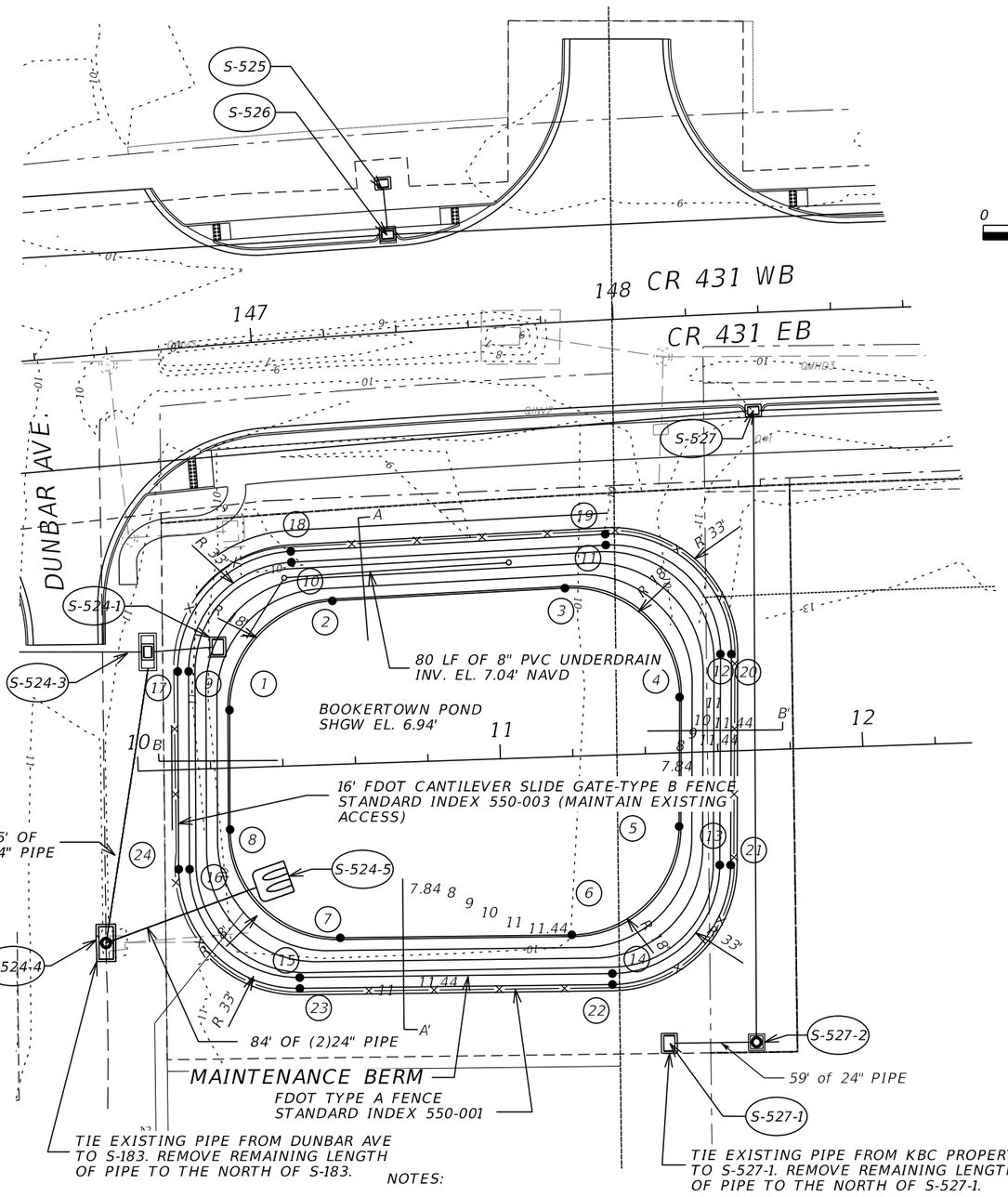
SEMINOLE COUNTY PUBLIC WORKS

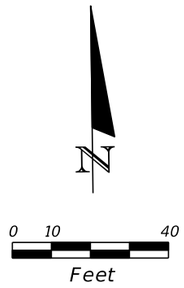
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND DETAIL (OC4-1)

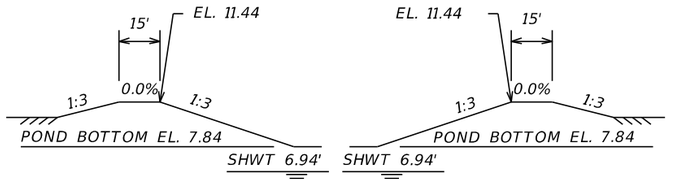
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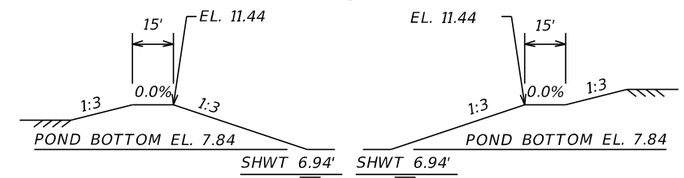
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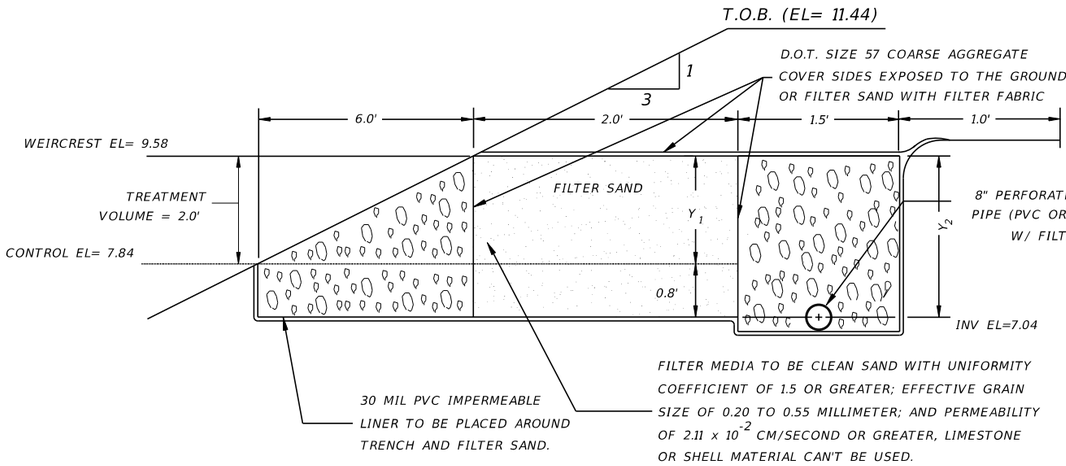


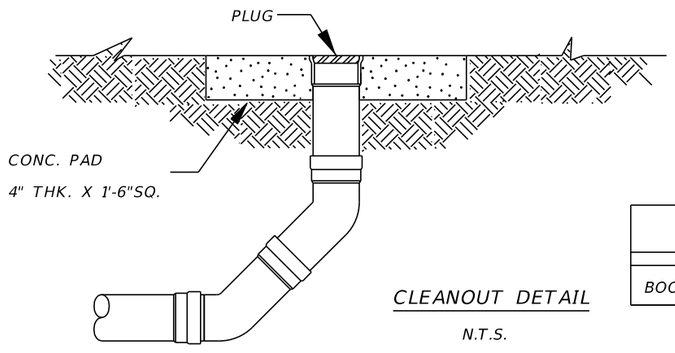


STAKEOUT TABLE			
POINT	STATION	OFFSET	EL.
1	10+25.76	15.96' LT	7.84
2	10+55.13	45.08' LT	7.84
3	11+19.36	46.41' LT	7.84
4	11+49.96	15.29' LT	7.84
5	11+48.63	20.29' RT	7.84
6	11+18.01	49.16' RT	7.84
7	10+54.15	47.81' RT	7.84
8	10+24.80	16.94' RT	7.84
9	10+14.83	56.10' LT	11.44
10	10+44.20	45.27' LT	11.44
11	11+31.04	57.89' LT	11.44
12	11+61.64	26.78' LT	11.44
13	11+59.46	31.32' RT	11.44
14	11+28.85	60.19' RT	11.44
15	10+42.60	58.36' RT	11.44
16	10+13.25	27.50' RT	11.44
17	10+11.83	27.06' LT	11.44
18	10+44.14	59.10' LT	11.44
19	11+30.97	60.89' LT	11.44
20	11+64.63	26.67' LT	11.44
21	11+62.46	31.43' RT	11.44
22	11+28.78	63.19' RT	11.44
23	10+42.54	61.36' RT	11.44
24	10+10.25	27.41' RT	11.44









CLEANOUT DETAIL
N.T.S.

UNDERDRAIN DETAIL
N.T.S.

UNDERDRAIN DATA

POND	Y_1	Y_2	WEIRCREST	DESIGN DRAWDOWN
BOOKERTOWN	2.04'	2.84'	9.58	7.84

POND BOOKERTOWN
DHW EL. = 10.20'
WEIR. EL. = 9.30'
SHW EL. = 6.94
BOTTOM EL. = 7.84'

NOTES:

1) ADDITIONAL CONTROL STRUCTURE INFORMATION CAN BE FOUND IN THE TABLE LOCATED ON POND DETAIL SHEET 159
2) ✦ BORING LOCATION
3) POND STAGE-STORAGE, SIDE SLOPES, AND MAINTENANCE BERM WIDTHS MATCH EXISTING PERMITTED PLANS.
4) ADDITIONAL DRAINAGE STRUCTURE INFORMATION CAN BE FOUND IN THE DRAINAGE STRUCTURE TABLE ON POND DETAIL SHEET XXX

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION
09/23	RESIZED POND AND EXTENDED PIPE AROUND NEW POND BERM		

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

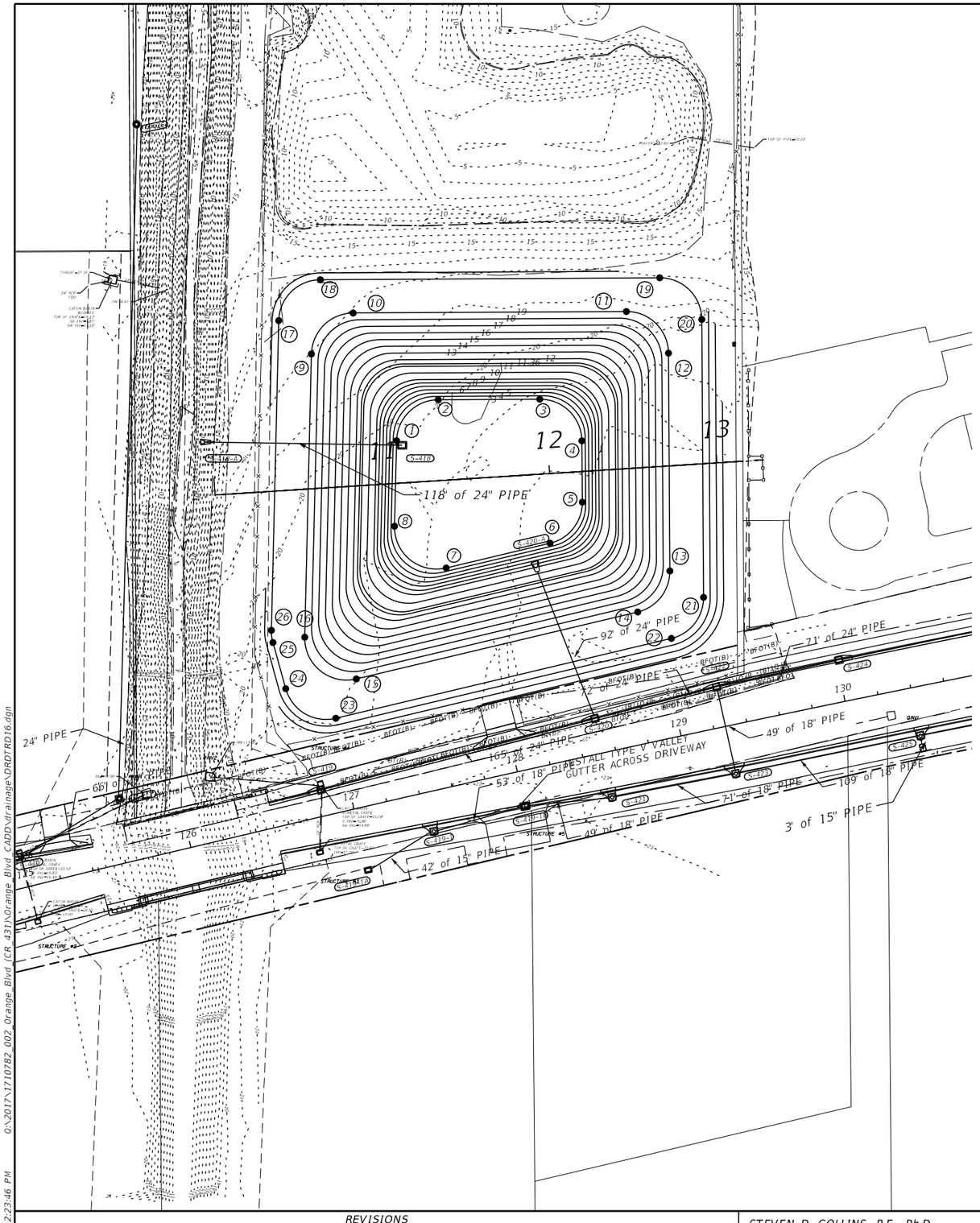
SEMINOLE COUNTY PUBLIC WORKS

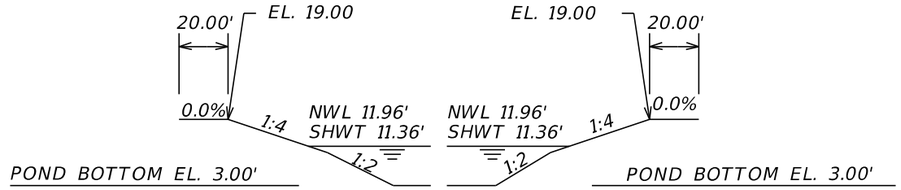
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND DETAIL (BOOKERTOWN)

SHEET NO. 157

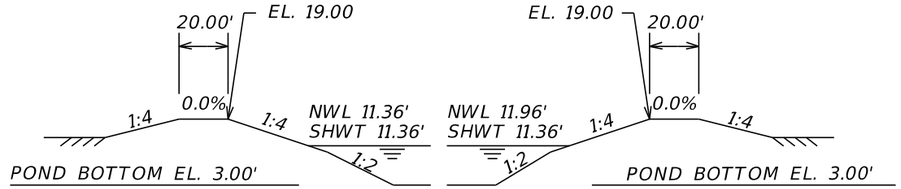
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2/27/2025





SECTION A-A'

NTS



SECTION B-B'

NTS

POND P-1
DHW EL. = 14.94'
WEIR. EL. = 15.00'
SHW EL. = 11.36'
BOTTOM EL. = 3.00'

STAKEOUT TABLE

POINT	STATION	OFFSET	EL.
1	11+10.14	25.42 LT	3.00
2	11+36.50	48.19 LT	3.00
3	11+97.02	44.66 LT	3.00
4	12+20.52	18.27 LT	3.00
5	12+18.42	18.27 RT	3.00
6	11+97.68	41.48 RT	3.00
7	11+34.80	52.25 RT	3.00
8	11+05.68	25.42 RT	3.00
9	10+62.76	80.28 LT	19.00
10	10+89.12	103.05 LT	19.00
11	12+51.91	93.55 LT	19.00
12	12+75.41	67.16 LT	19.00
13	12+67.96	62.54 RT	19.00
14	12+47.22	85.75 RT	19.00
15	10+77.10	114.90 RT	19.00
16	10+47.98	88.07 RT	19.00
17	10+44.54	80.28 LT	19.00
18	10+70.90	124.15 LT	19.00
19	12+73.03	93.55 LT	19.00
20	12+96.53	85.96 LT	19.00
21	12+87.01	79.57 RT	19.00
22	12+66.28	102.77 RT	19.00
23	10+63.40	137.54 RT	19.00
24	10+34.71	118.05 RT	19.00
25	10+28.81	90.03 RT	19.00
26	10+28.37	82.69 RT	19.00

NOTES:

1) ADDITIONAL CONTROL STRUCTURE INFORMATION CAN BE FOUND IN THE TABLE LOCATED ON POND DETAIL SHEET 159

2) ⊕ BORING LOCATION

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

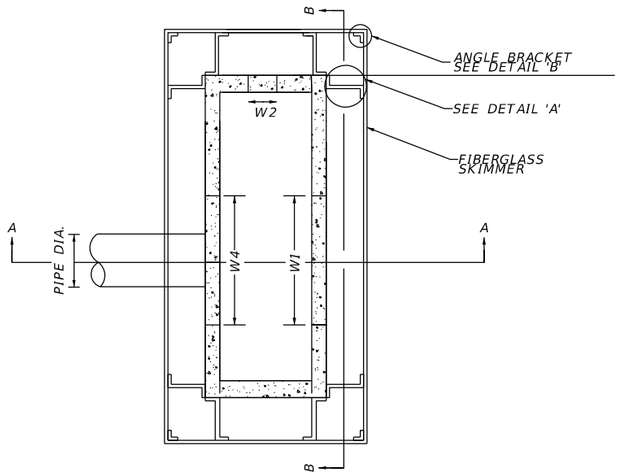
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

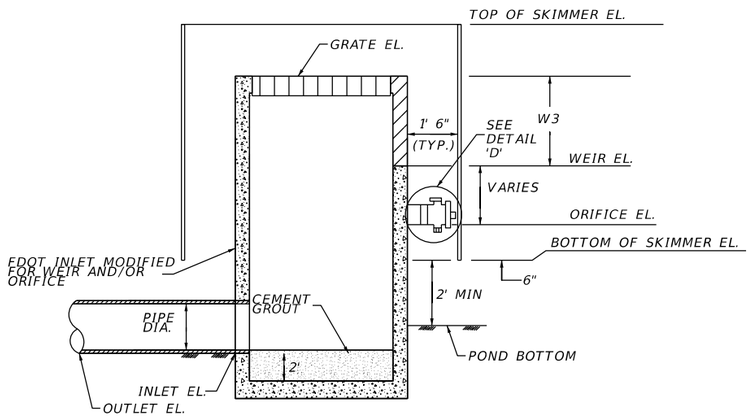
POND DETAIL (P-1)

SHEET NO. 158

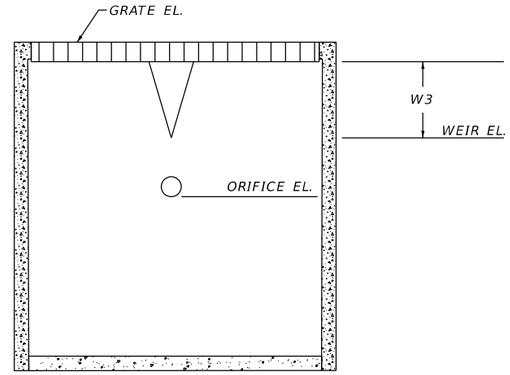
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2/27/2025



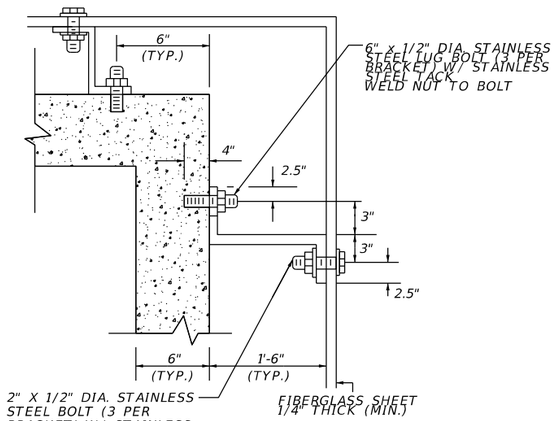
PLAN VIEW
NTS



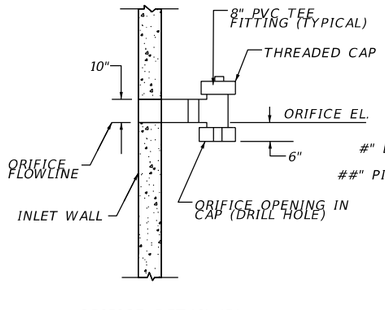
SECTION A-A (TYP.)
NTS



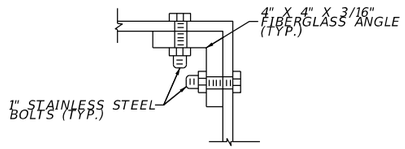
SECTION B-B
(V-NOTCH WEIR)
NTS



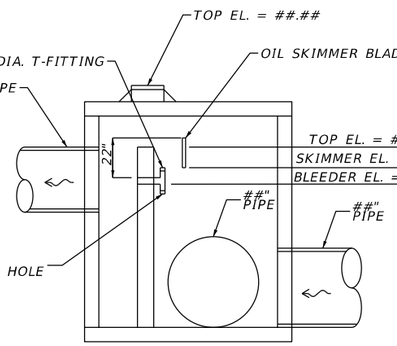
SKIMMER DETAIL 'A' (TYP.)
NTS



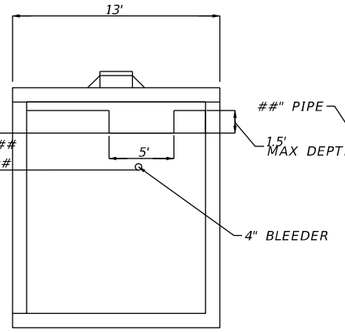
ORIFICE DETAIL 'D'
NTS



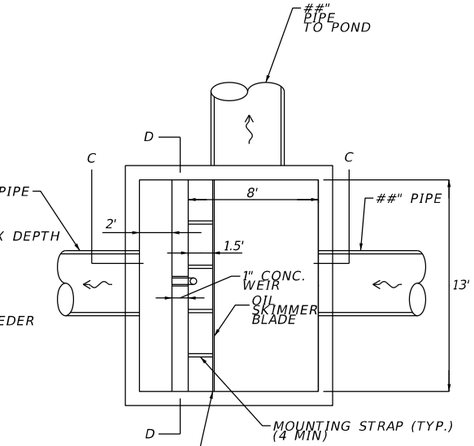
DETAIL 'B' (TYP.)
NTS



SECTION C-C
(BAFFLE BOX)
NTS



SECTION D-D
(BAFFLE BOX)
NTS



SECTION S##-## DETAIL
NTS

OUTFALL CONTROL STRUCTURES

POND	STRUCT. NO.	WEIR SHAPE	STRUCT. TYPE	GRATE EL.	WEIR EL.	WEIR LENGTH (IN) W1 (LONG SIDE)	WEIR LENGTH (IN) W4 (LONG SIDE)	WEIR LENGTH (IN) W2 (SHORT SIDE)	WEIR HEIGHT (IN) W3	ORIFICE SIZE (IN.)	ORIFICE EL.	TOP OF SKIMMER EL.	BOTTOM OF SKIMMER EL.	UPSTREAM PIPE EL. (INLET)	PIPE DIAMETER (IN.)	DOWNSTREAM PIPE EL. (OUTLET)
WR-1	S-20	RECTANGULAR	TYPE D	53.40	52.30	25.2	N/A	24	13.20	N/A	N/A	53.90	51.8	50	24	48.92
ND-2	S-74	RECTANGULAR	TYPE H	28.00	23.75	28.0	N/A	N/A	51.00	4.00	23.25	28.50	22.8	22.6	42	22.20
OC2-2	S-228	RECTANGULAR	TYPE D	23.00	21.40	24.0	N/A	N/A	18.0	4.00	20.5	23.50	20.0	19.5	18	18
LS-2	S-430	RECTANGULAR	TYPE D	17.50	16.00	36.0	N/A	N/A	18.0	4.00	15.5	18.00	15.0	10	18	8
P-1	S-418	V-NOTCH		18.00	15.00	6.0	N/A	N/A	36.0	4.00	11.36	18.5	10.9	8.5	18	8.20
OC3-2	S-516	RECTANGULAR	TYPE D	11.70	6.50	12.0	N/A	N/A	62.4	4.00	6.0	12.2	5.5	6.0	30	5.00
BOOKERTOWN	S-524-1	RECTANGULAR	TYPE D	10.40	9.30	36.0	36	24	13.7	N/A	N/A	10.9	8.8	7.07	24	6.90
OC4-1	S-614	RECTANGULAR	TYPE D	8.90	7.40	6.0	N/A	N/A	18.0	4.00	6.40	9.40	5.9	4.2	18	3.87

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

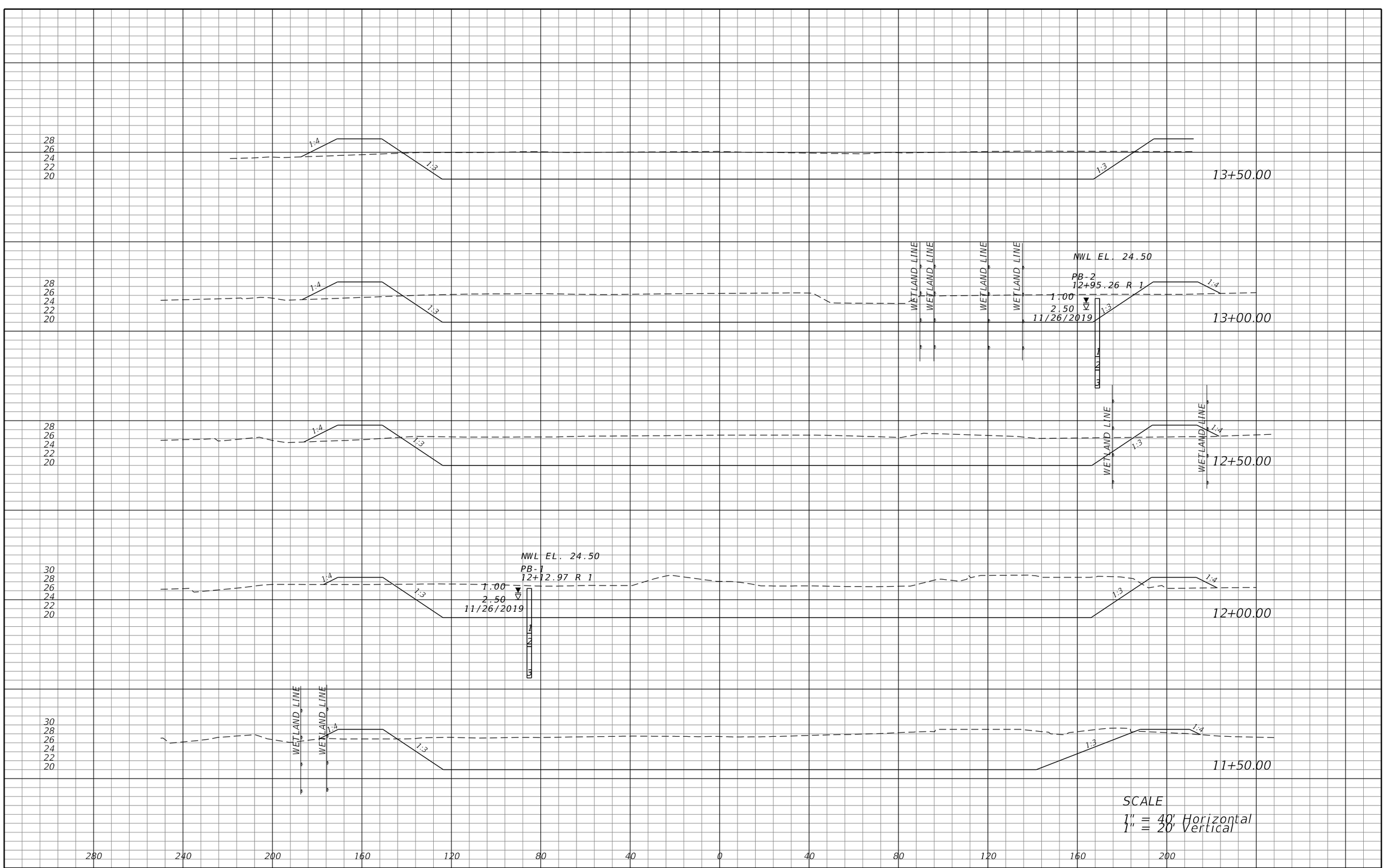
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND DETAIL

SHEET NO.
159

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2/27/2025



REVISIONS			
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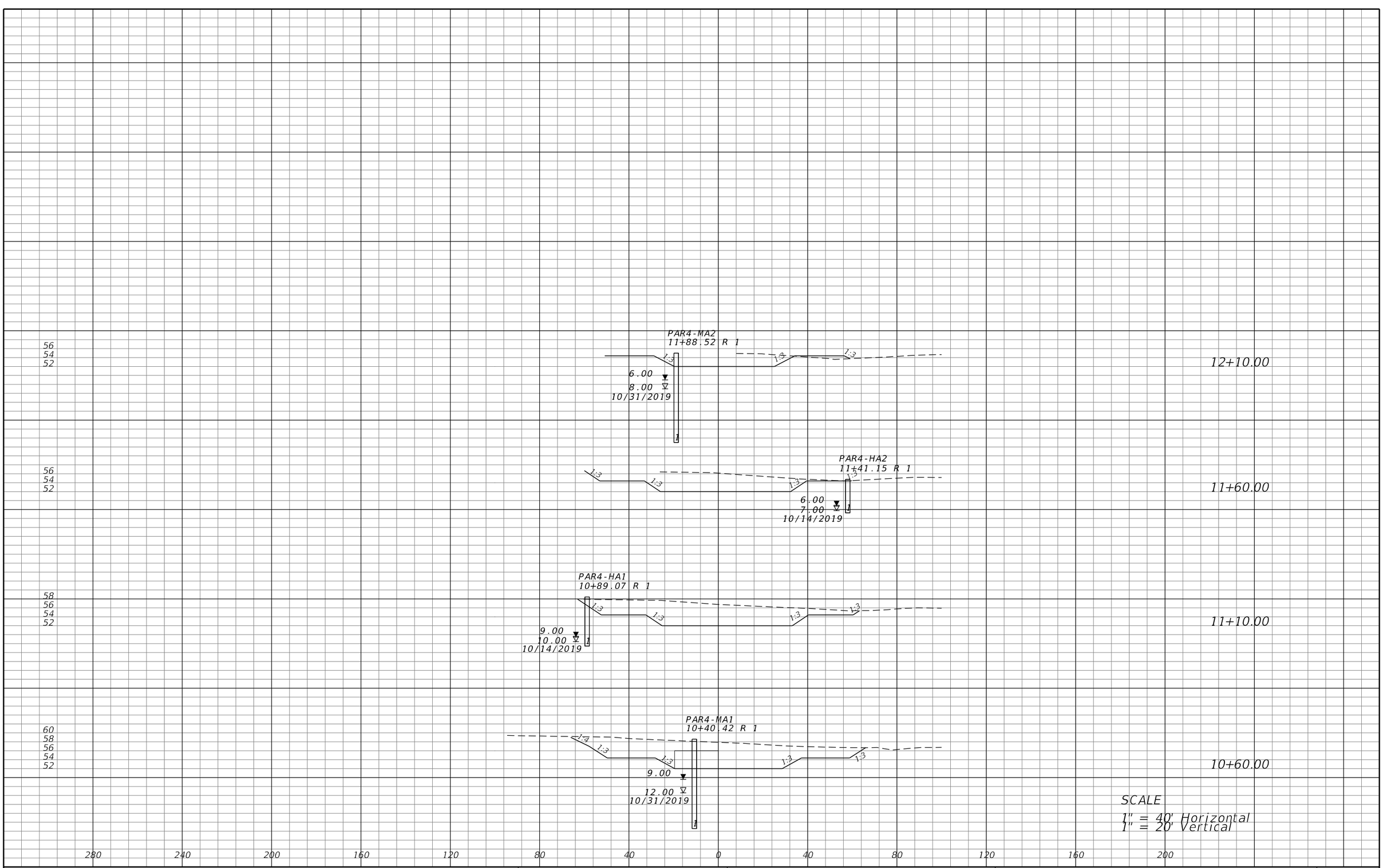
STEVEN D. COLLINS, P.E., Ph.D
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND CROSS-SECTIONS
(ND-2 POND)

SHEET NO. 160



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

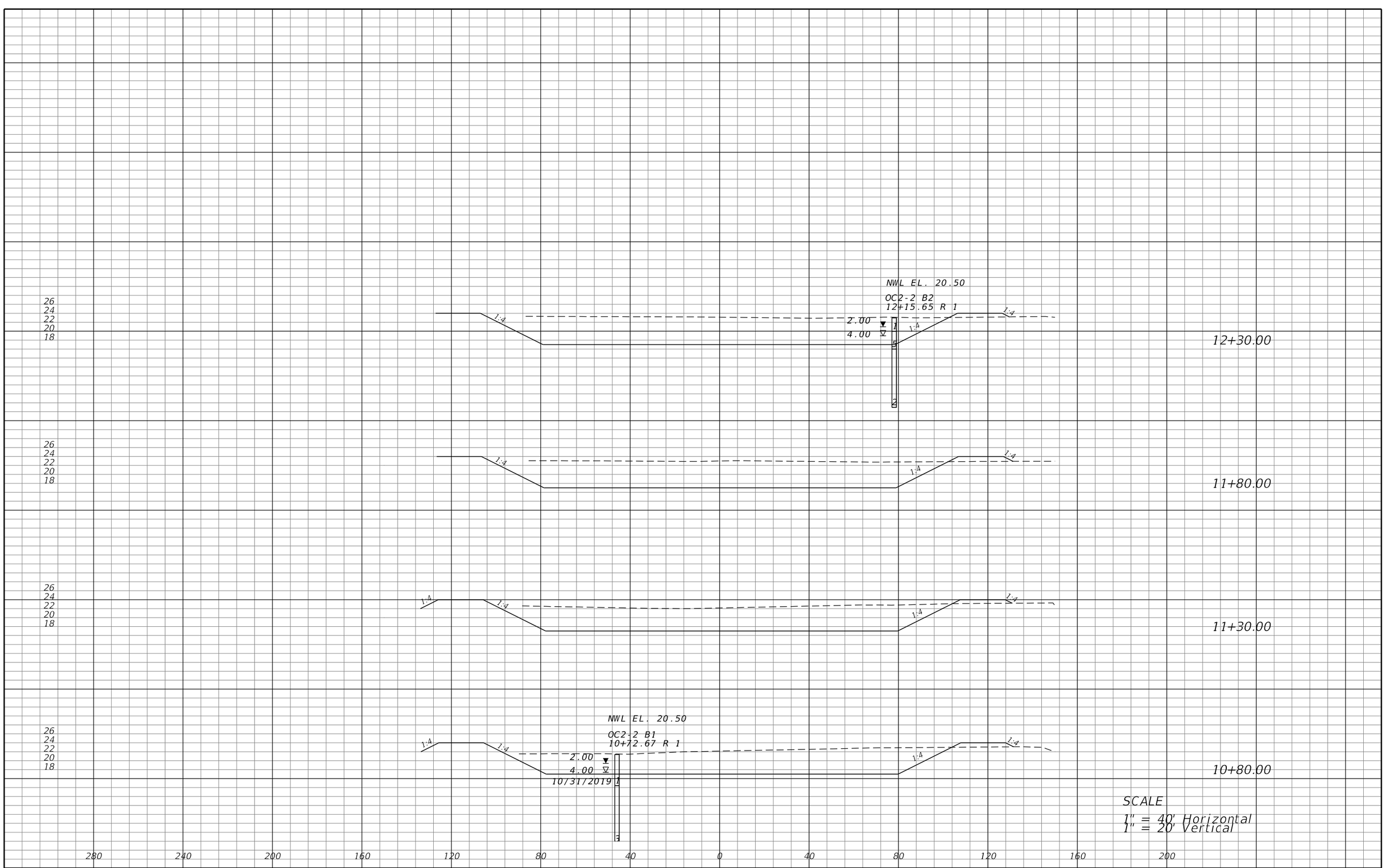
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
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400 COLONIAL CENTER PKWY., SUITE 100
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND CROSS-SECTIONS
(WR-1 POND)

SHEET NO. 161



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

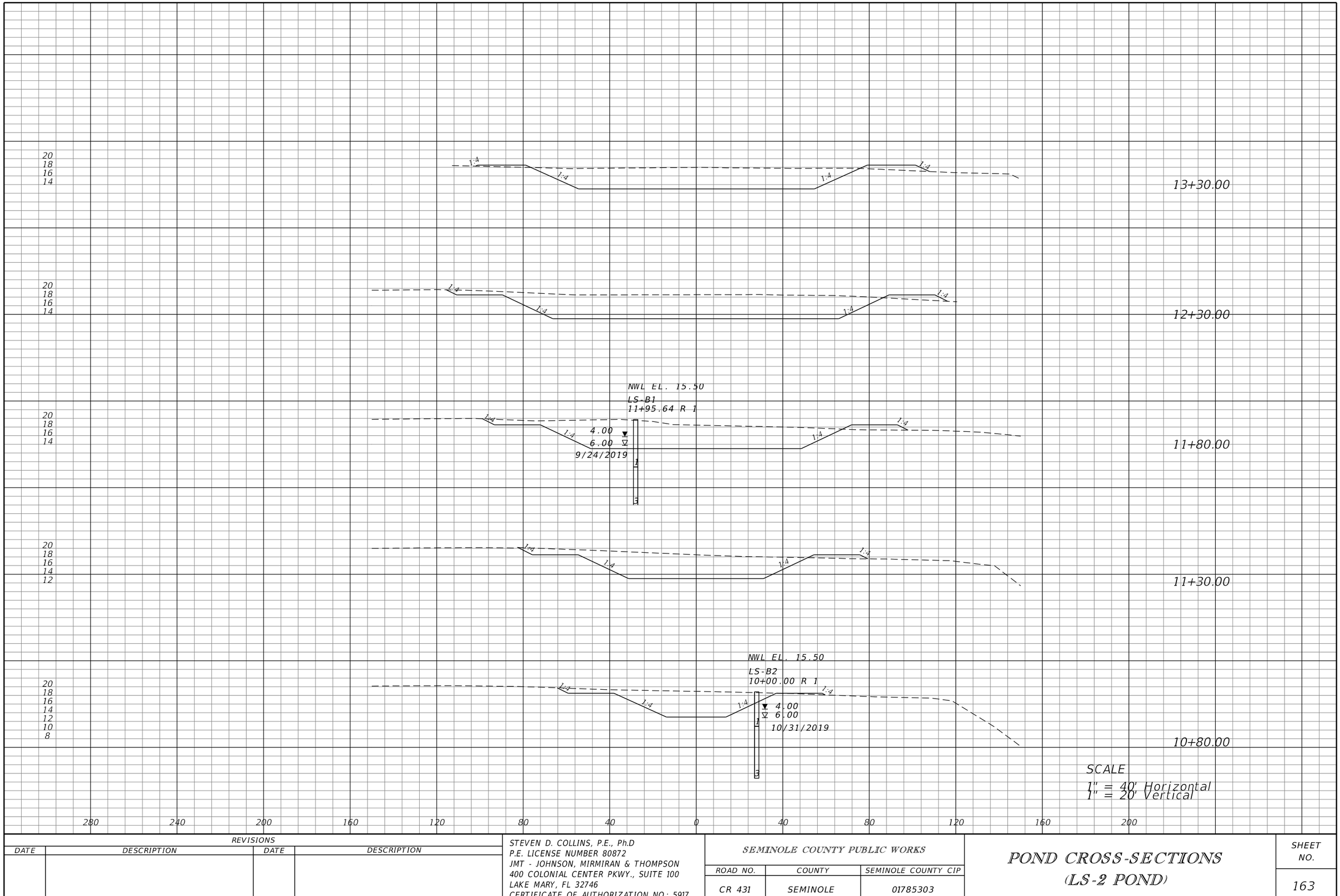
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
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400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND CROSS-SECTIONS
(OC2-2 POND)

SHEET NO. 162



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

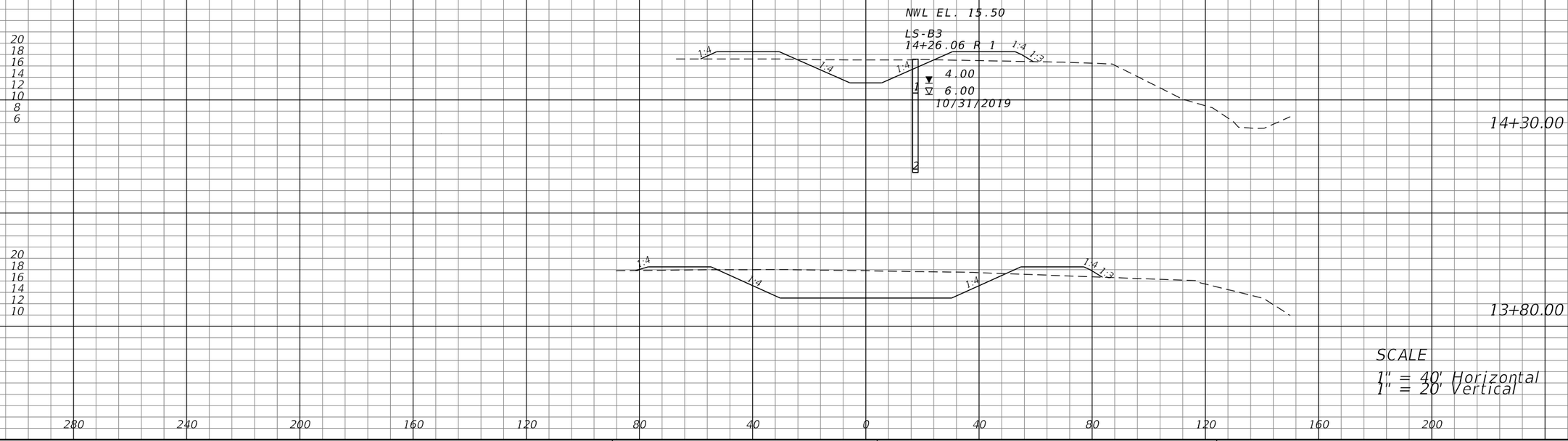
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND CROSS-SECTIONS (LS-2 POND)

SHEET NO. 163



SCALE
1" = 40' Horizontal
1" = 20' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

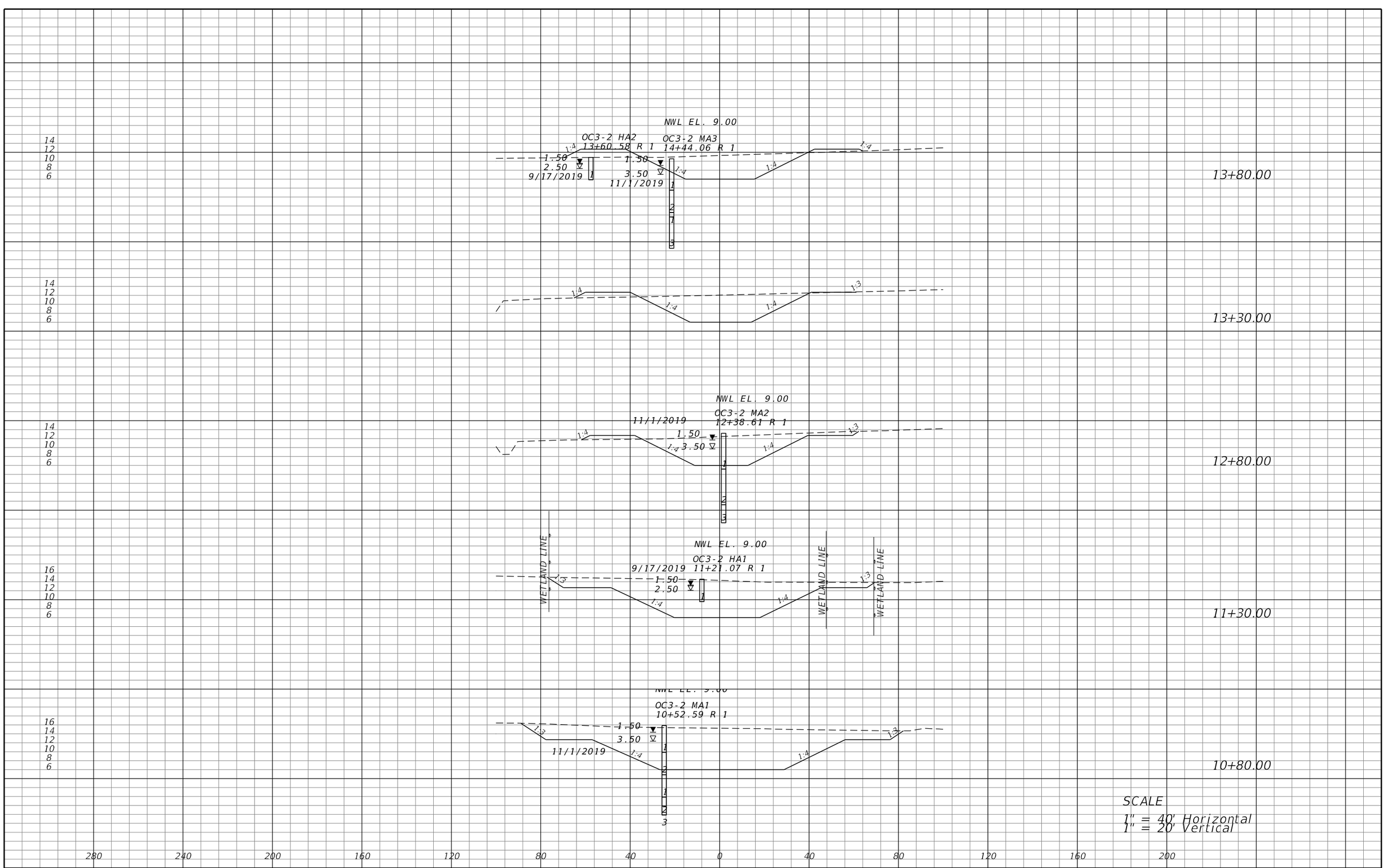
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND CROSS-SECTIONS
(LS-2 POND)

SHEET NO. 164



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

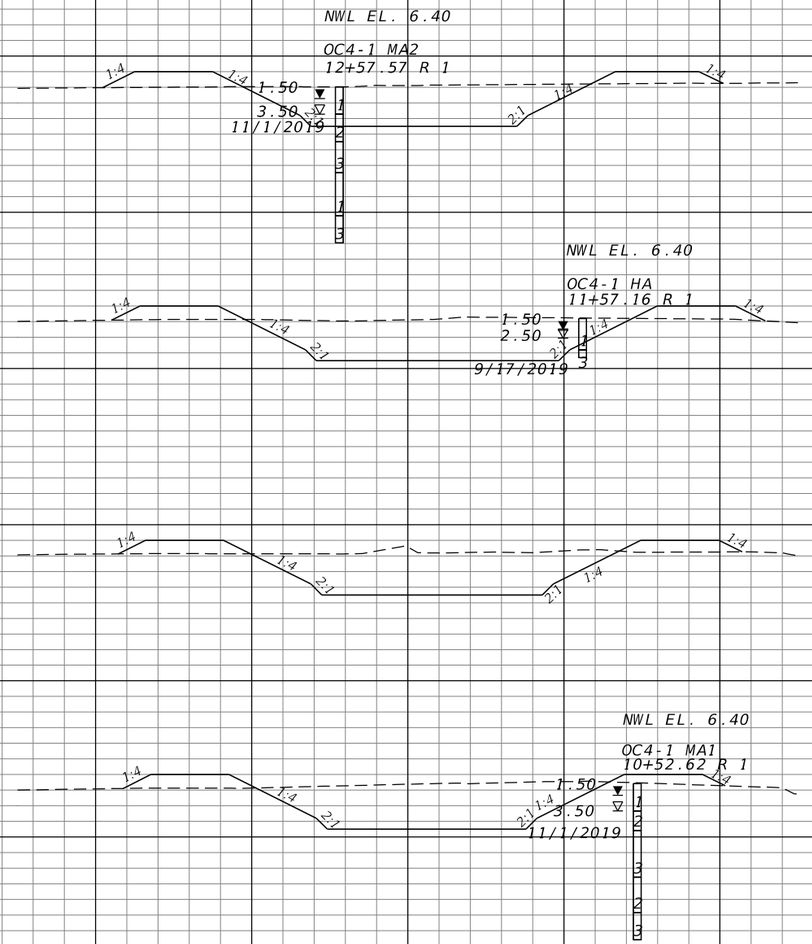
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND CROSS-SECTIONS
(OC3-2 POND)

SHEET NO. 165



SCALE
1" = 40' Horizontal
1" = 20' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

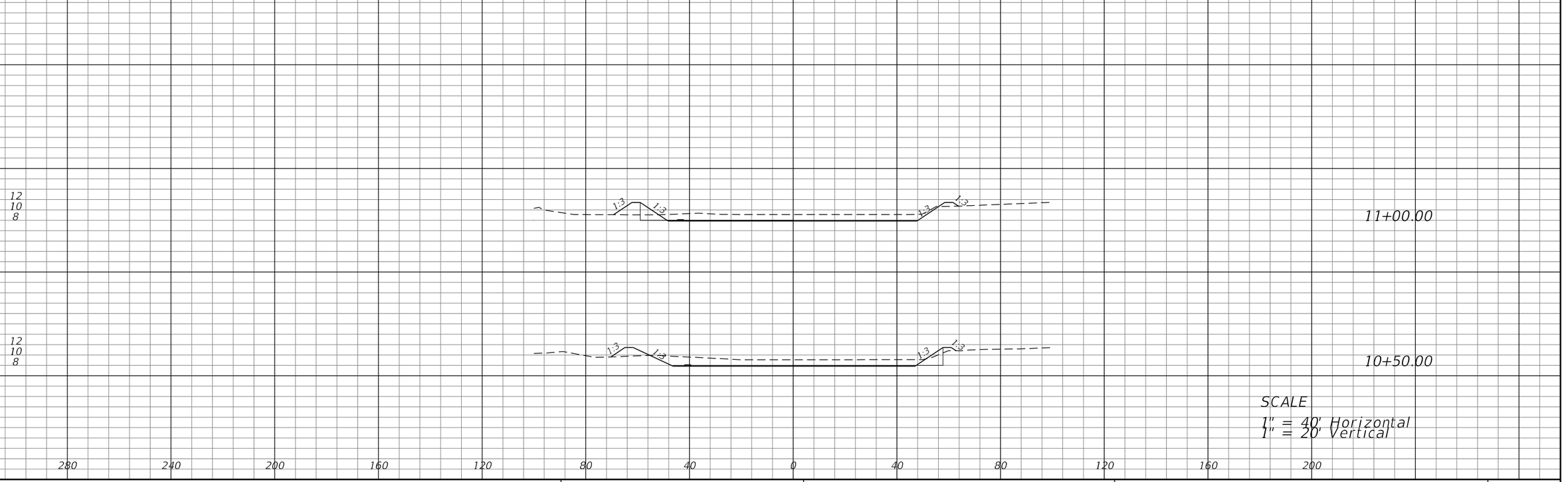
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND CROSS-SECTIONS (OC4-1 POND)

SHEET NO. 166



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

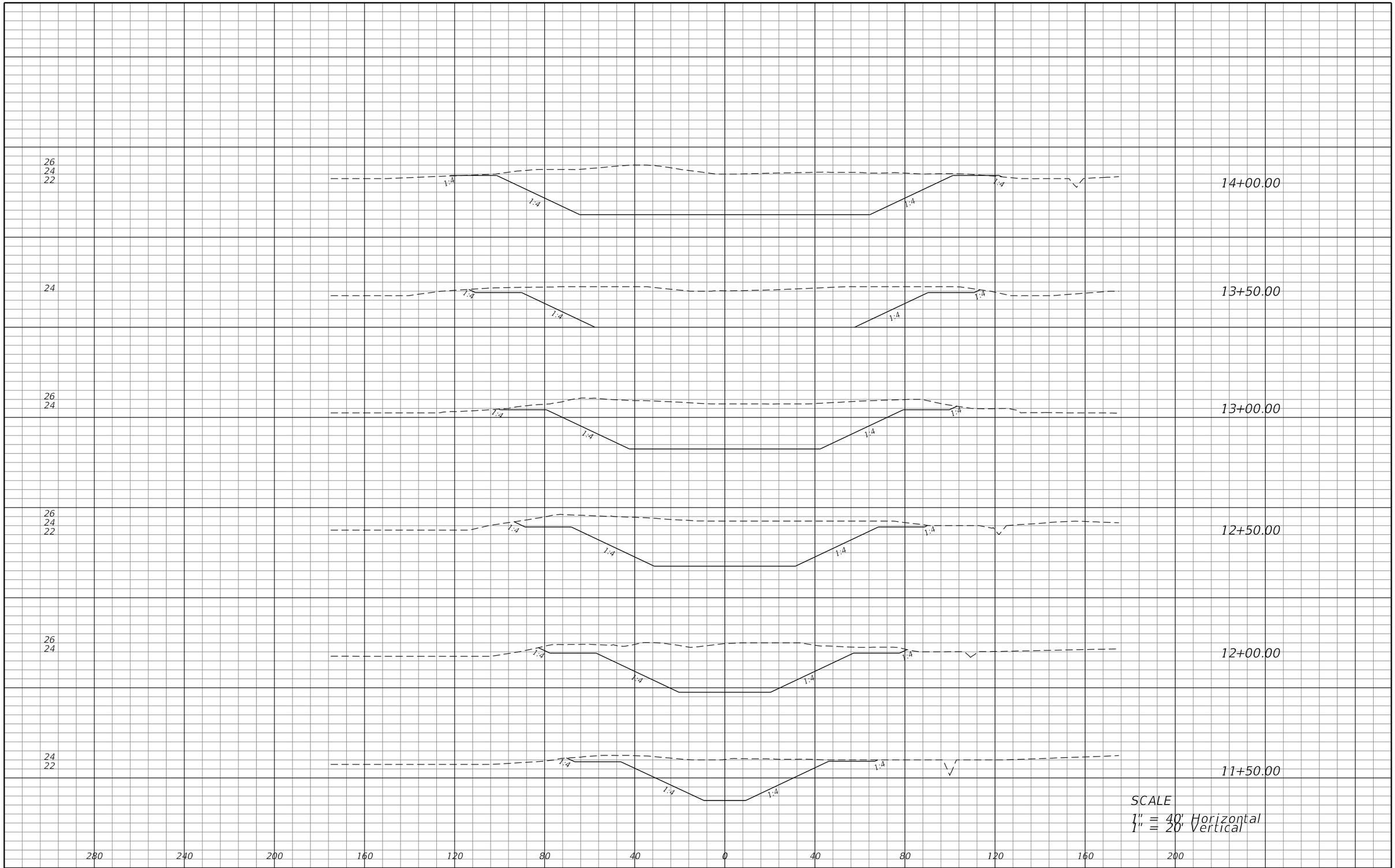
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND CROSS-SECTIONS (BOOKERTOWN POND)

SHEET NO. 167



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

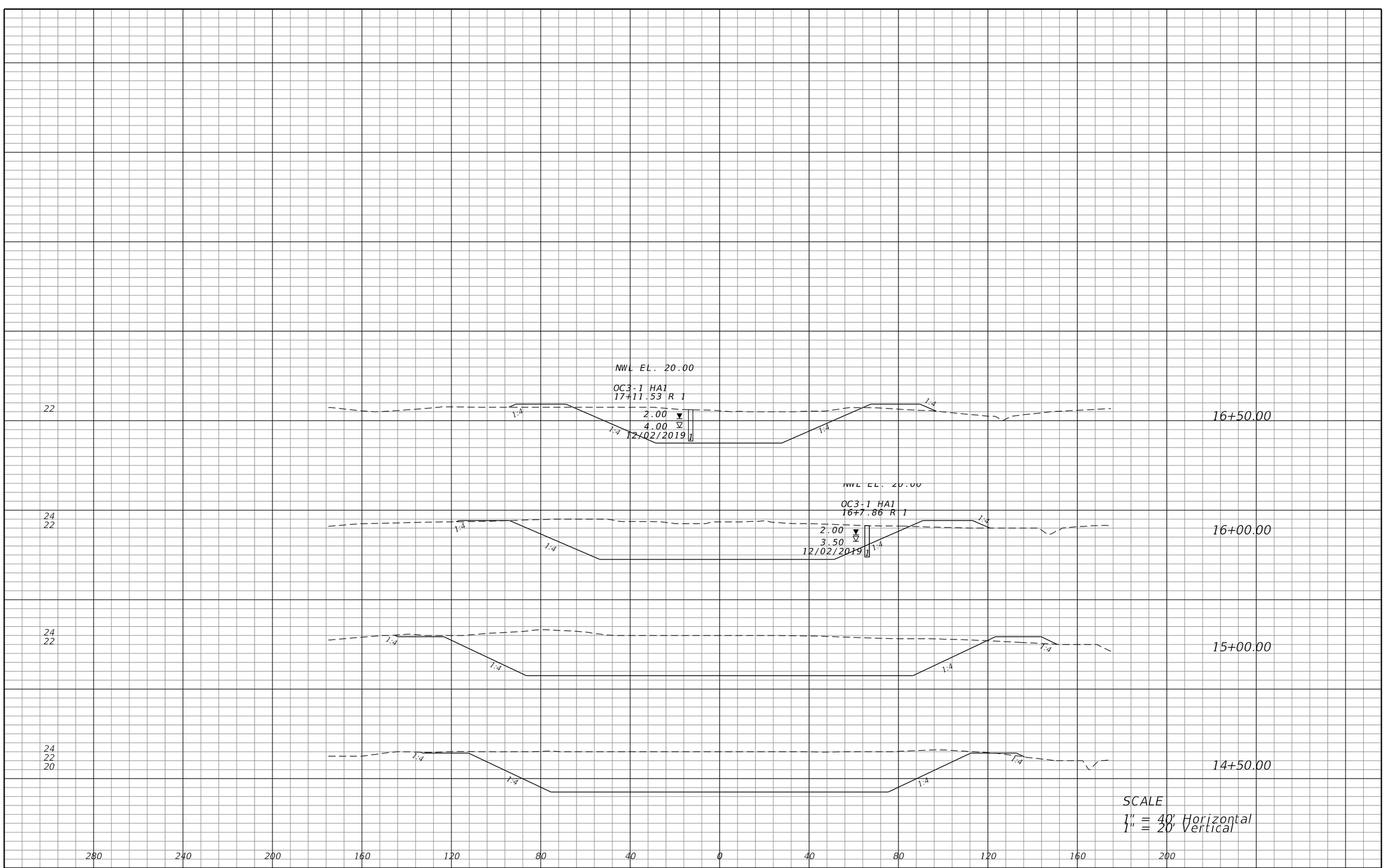
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND CROSS-SECTIONS (OC3-1 POND)

SHEET NO. 168



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

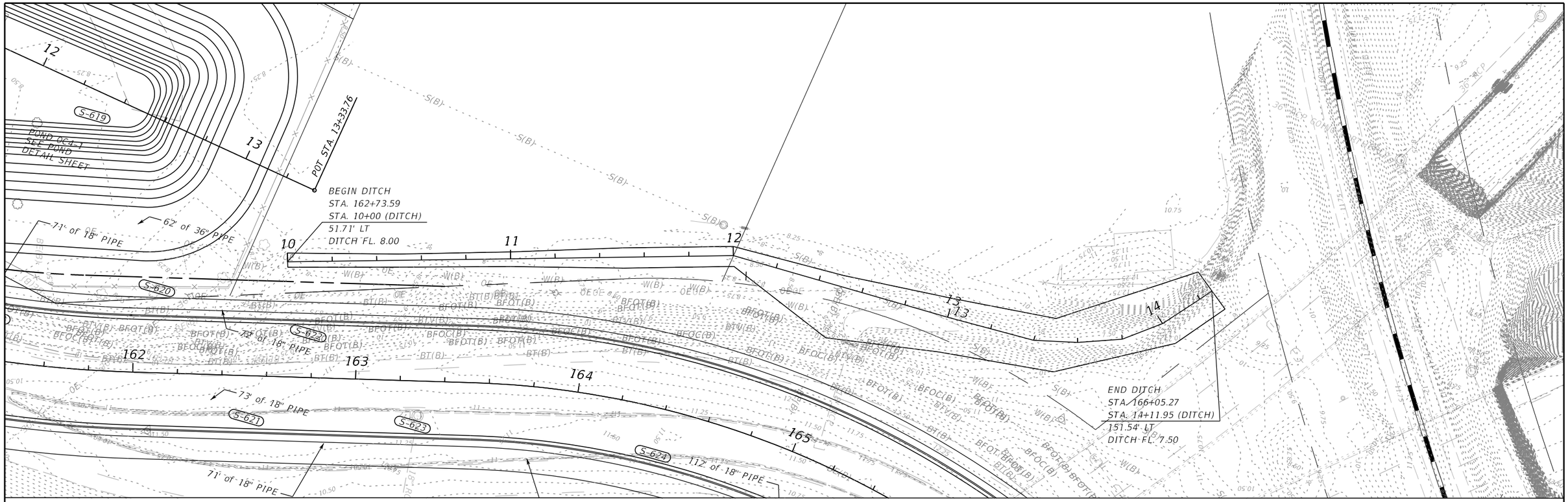
STEVEN D. COLLINS, P.E., Ph.D
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

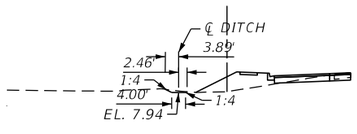
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

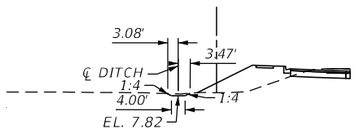
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SHEET NO. 169

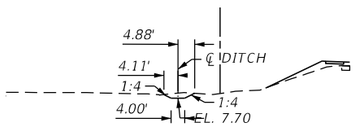




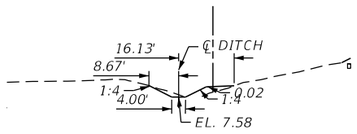
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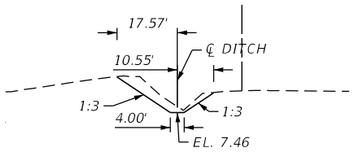
STA 11+00.00



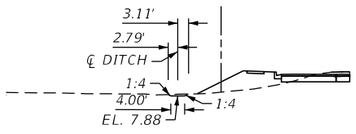
STA 12+00.00



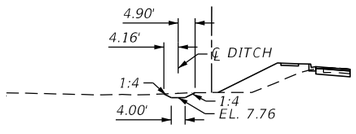
STA 13+00.00



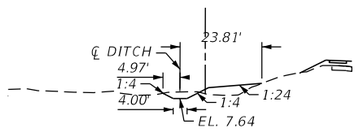
STA 14+00.00



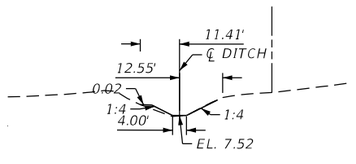
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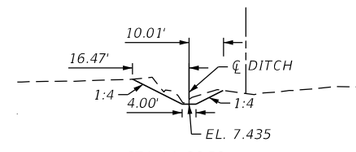
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STA 12+50.00



STA 13+50.00



STA 14+26.56

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
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JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

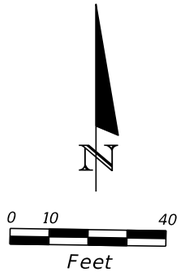
SEMINOLE COUNTY PUBLIC WORKS

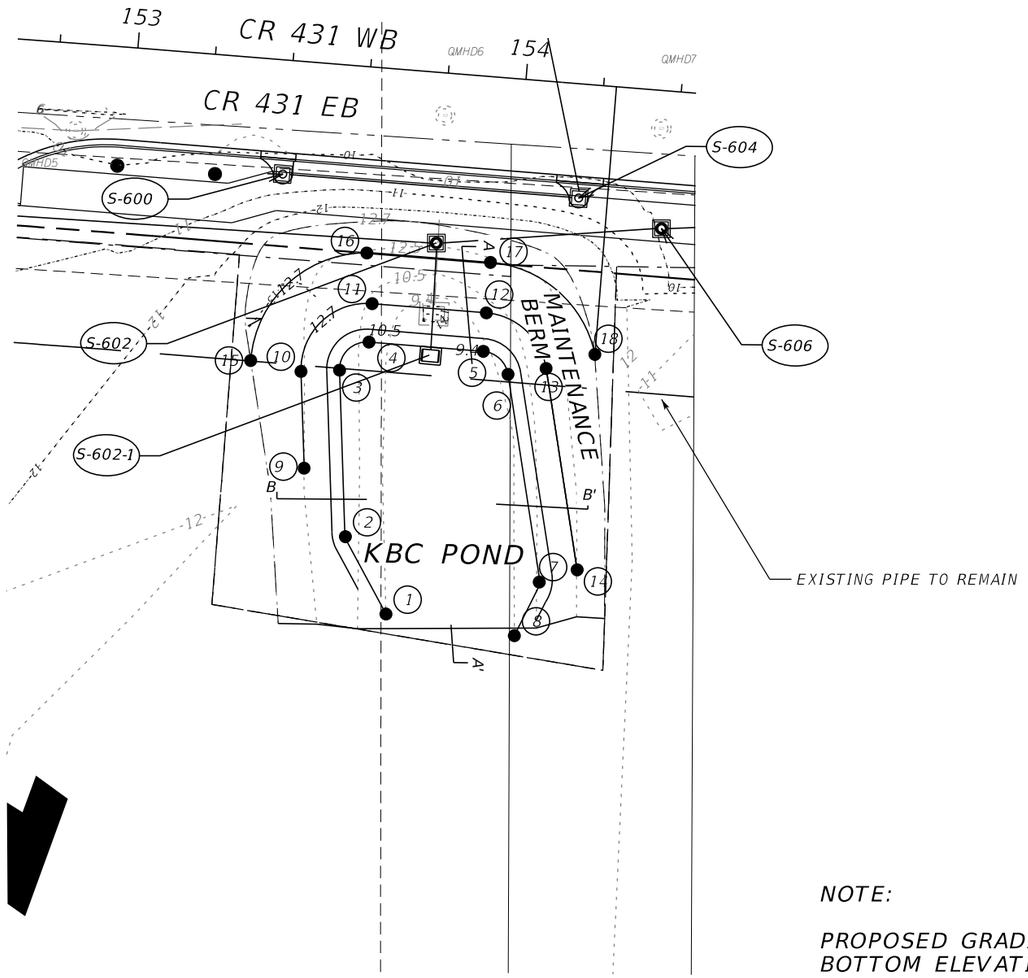
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

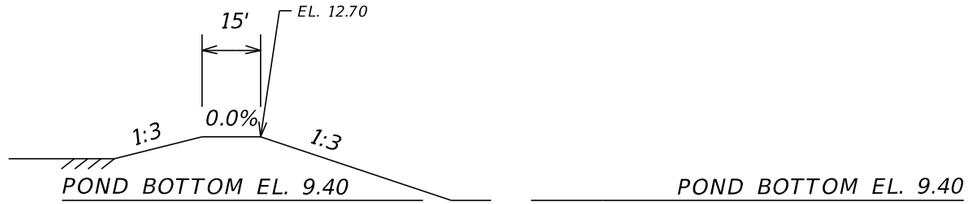
DRAINAGE DETAIL

SHEET NO. 170

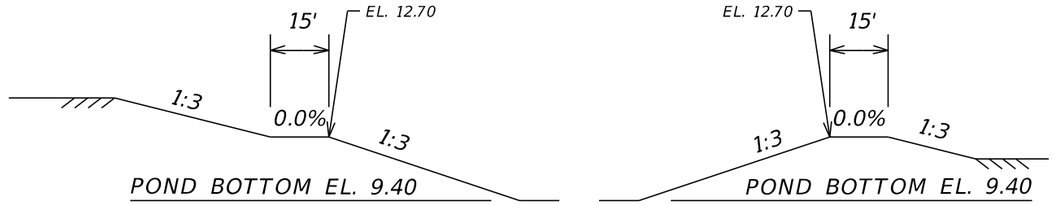
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2/27/2025







SECTION A-A'
NTS



SECTION B-B'
NTS

STAKEOUT TABLE			
POINT	STATION	OFFSET	EL.
1	153+75.18	139.64' RT	9.4
2	153+63.19	120.69' RT	9.4
3	153+58.27	78.28' RT	9.4
4	153+65.23	70.44' RT	9.4
5	153+94.65	70.44' RT	9.4
6	154+01.46	75.82' RT	9.4
7	154+13.76	128.30' RT	9.4
8	154+8.49	142.51' RT	9.4
9	153+51.22	104.03' RT	12.7
10	153+48.43	79.34' RT	12.7
11	153+65.23	60.54' RT	12.7
12	153+94.65	60.54' RT	12.7
13	154+11.09	73.53' RT	12.7
14	154+23.20	124.38' RT	12.7
15	153+35.33	77.59' RT	12.7
16	153+62.83	47.70' RT	12.7
17	153+94.65	47.54' RT	12.7
18	154+23.29	68.91' RT	12.7

NOTE:

PROPOSED GRADING TO MATCH EXISTING STORAGE, MAINTENANCE BERM ELEVATIONS, AND POND BOTTOM ELEVATION, ALL BASED ON 2020 TOPOGRAPHIC SURVEY CONDUCTED BY JONES, WOOD & GENTRY, INC. SEE EXISTING PERMIT ERP 108330-1

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STEVEN D. COLLINS, P.E., Ph.D.
P.E. LICENSE NUMBER 80872
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND DETAIL (KBC POND)

SHEET NO. 171

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Drainage Structure Table

Structure ID	Alignment	Station	Offset	RT/LT	Structure Type	Index No.	Elevation	Rim/Grate/EOP	AH	BK	LT	RT
S-64	Orange	53+04.71	190.65	LT	MH Type J-7 (6.0X6.0)	425-001	28.81	Rim		(2)18" F.L. 25.18	29"x45" F.L. 24.10	
S-64-1	Orange	55+12.38	453.78	LT	MH Type J-7 (6.0X6.0)	425-001	29.00	Rim	29"x45" F.L. 23.29			29"x45" F.L. 23.29
S-64-2	Orange	57+97.08	274.07	LT	MH Type J-7 (6.0X6.0)	425-001	29.00	Rim		29"x45" F.L. 22.60		29"x45" F.L. 22.60
S-71	Orange	53+79.02	183.20	LT	60" FES	430-020	24.42	Rim		60" F.L. 18.50		
S-74-1	Orange	57+89.23	249.88	LT	MH Type J-7 (5.0X6.0)	425-001	29.00	Rim		36" F.L. 22.56	29"x45" F.L. 22.56	34"x53" F.L. 22.20
S-224	Orange	92+64.15	322.20	LT	18" FES	430-020	19.71	Rim	18" F.L. 18.00			
S-229	Orange	93+53.84	94.78	LT	30" FES	430-020	19.79	Rim				30" F.L. 17.00
S-230	Orange	95+05.37	95.66	LT	24" FES	430-020	20.90	Rim				24" F.L. 18.65
S-418-A	Orange	126+63.38	233.47	LT	18" MES	430-020	18.00	Rim	18" F.L. 8.20			
S-420-A	Orange	128+37.25	116.43	LT	24" FES	425-020	10.20	Rim		24" F.L. 8.20		
S-427	Orange	127+13.40	637.77	LT	MH Type P-7 (3.5 Dia)	425-001	19.41	Rim			24" F.L. 10.75	24" F.L. 10.75
S-428	Orange	127+66.12	882.84	LT	MH Type J-7 (5.0 Dia)	425-001	19.69	Rim	24" F.L. 10.16			24" F.L. 10.16
S-429	Orange	128+25.78	925.52	LT	24" FES	430-020	12.25	Rim		24" F.L. 10.00		
S-431	Orange	131+39.16	1105.02	LT	24" FES	430-020	10.25	Rim		24" F.L. 8.00		
S-515	Orange	142+37.62	185.12	RT	24" FES	430-020	11.25	Rim			24" F.L. 9.00	
S-523	Orange	146+13.53	199.83	RT	MH Type P-7 (3.5 Dia)	425-001	12.00	Rim			36" F.L. 6.00	36" F.L. 6.00
S-523-A	Orange	146+07.49	314.97	RT	DBI Type C	425-052	10.16	Grate	36" F.L. 6.50			
S-523-C	Orange	145=28.33	123.00	RT	36" FES	430-020	12.00	Rim		36" F.L. 3.50		
S-524-2	Orange	146+17.66	78.83	RT	MH Type J-7 (9.0X9.0)	425-001	11.06	Rim	(2)24"X38" F.L. 6.33		(2)29"X45" F.L. 5.83	
S-524-3	Orange	146+64.41	82.8	RT	DBI Type C (9.0X3.5)	425-052	11.23	Grate	24" F.L. 6.90	(2)24"X38" F.L. 6.40		24" F.L. 6.90
S-527-1	Orange	148+05.47	200.06	RT	DBI Type D	425-052	11.06	Grate	24" F.L. 6.91			
S-527-2	Orange	148+30.70	200.89	RT	MH Type P-7 (3.5X3.5)	425-001	11.08	Rim		24" F.L. 6.90	24" F.L. 6.90	
S-611	Orange	158+50.72	59.22	LT	42" FES	430-020	6.63	Rim		42" F.L. 3.84		
S-612	Orange	158+61.81	165.25	LT	24" FES	430-020	6.67	Rim	24" F.L. 4.42			
S-619	Orange	161+98.51	96.69	LT	36" FES	430-020	7.38	Rim				36" F.L. 5.38
S-704	Orange	175+19.88	60.78	RT	DBI Type C	425-052	10.22	Grate	18" F.L. 5.38	18" F.L. 4.79		

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REVISIONS			
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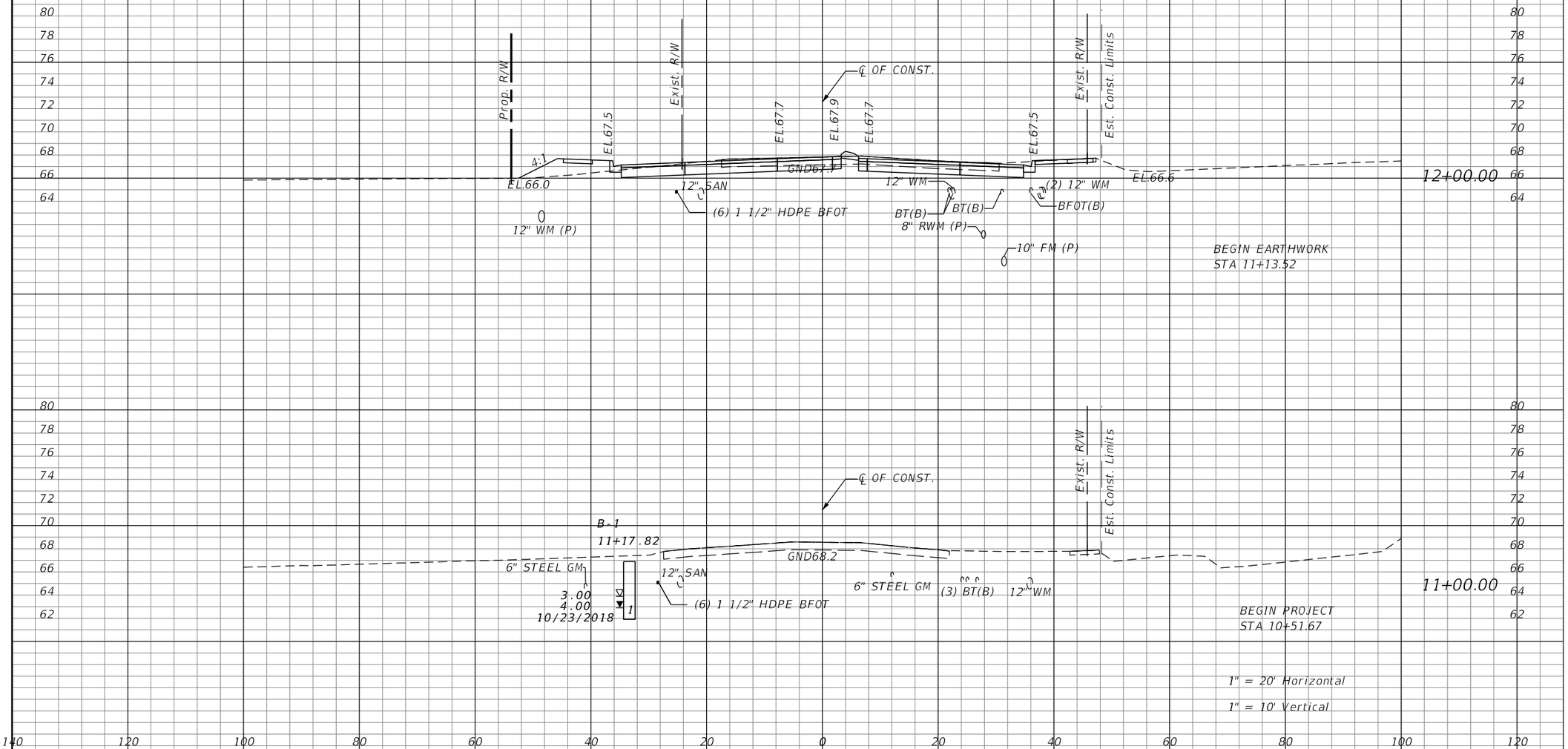
STEVEN D. COLLINS, P.E., Ph.D.
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

POND DETAIL

SHEET NO. 172



Regular Exc.		Embankment	
A	V	A	V
	322.4		63.2
79.3		14.45	
	146.9		26.8
0		0	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
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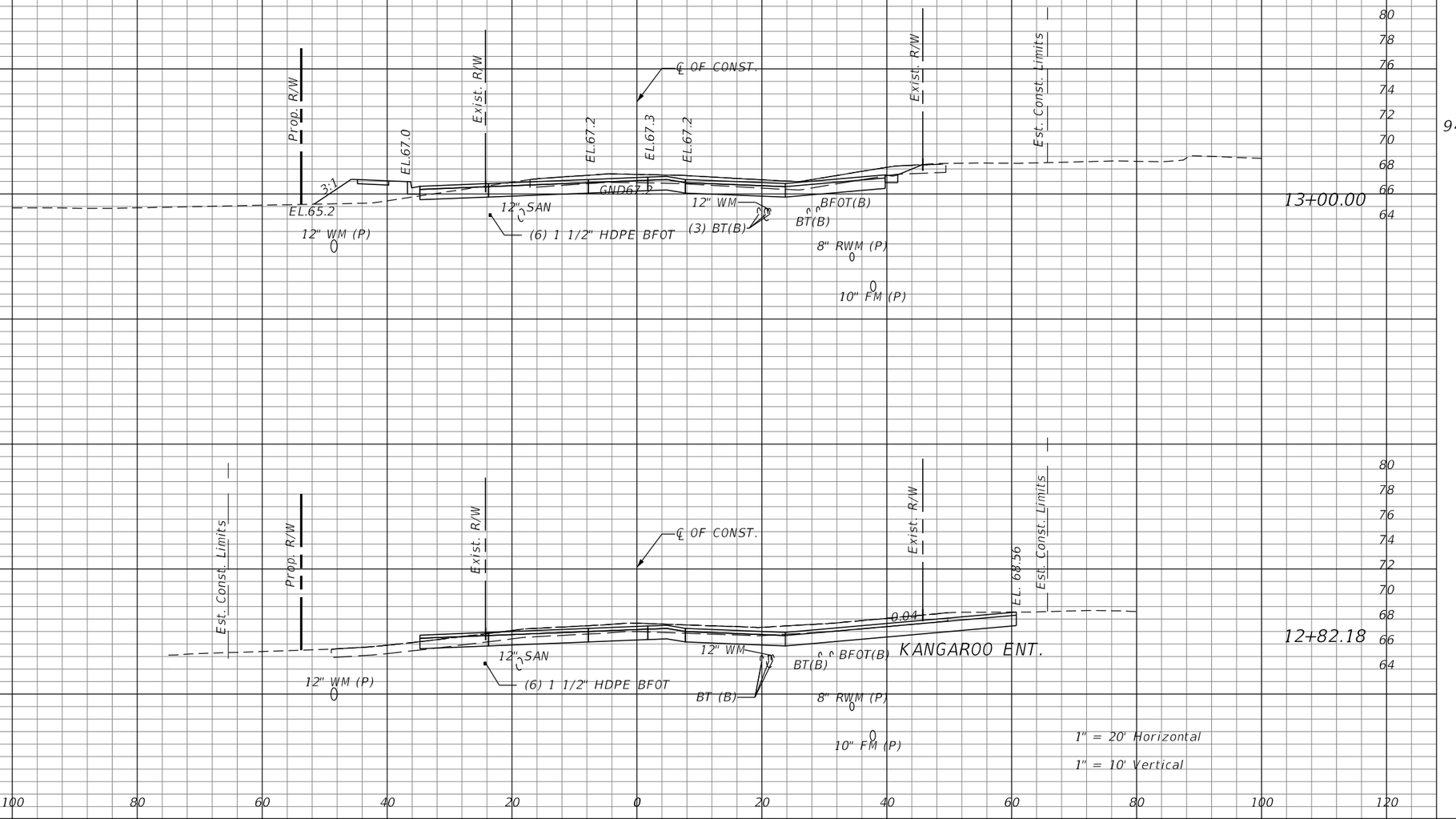
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 173

Regular Exc.		Embankment	
A	V	A	V
94.81		19.65	



REVISIONS			
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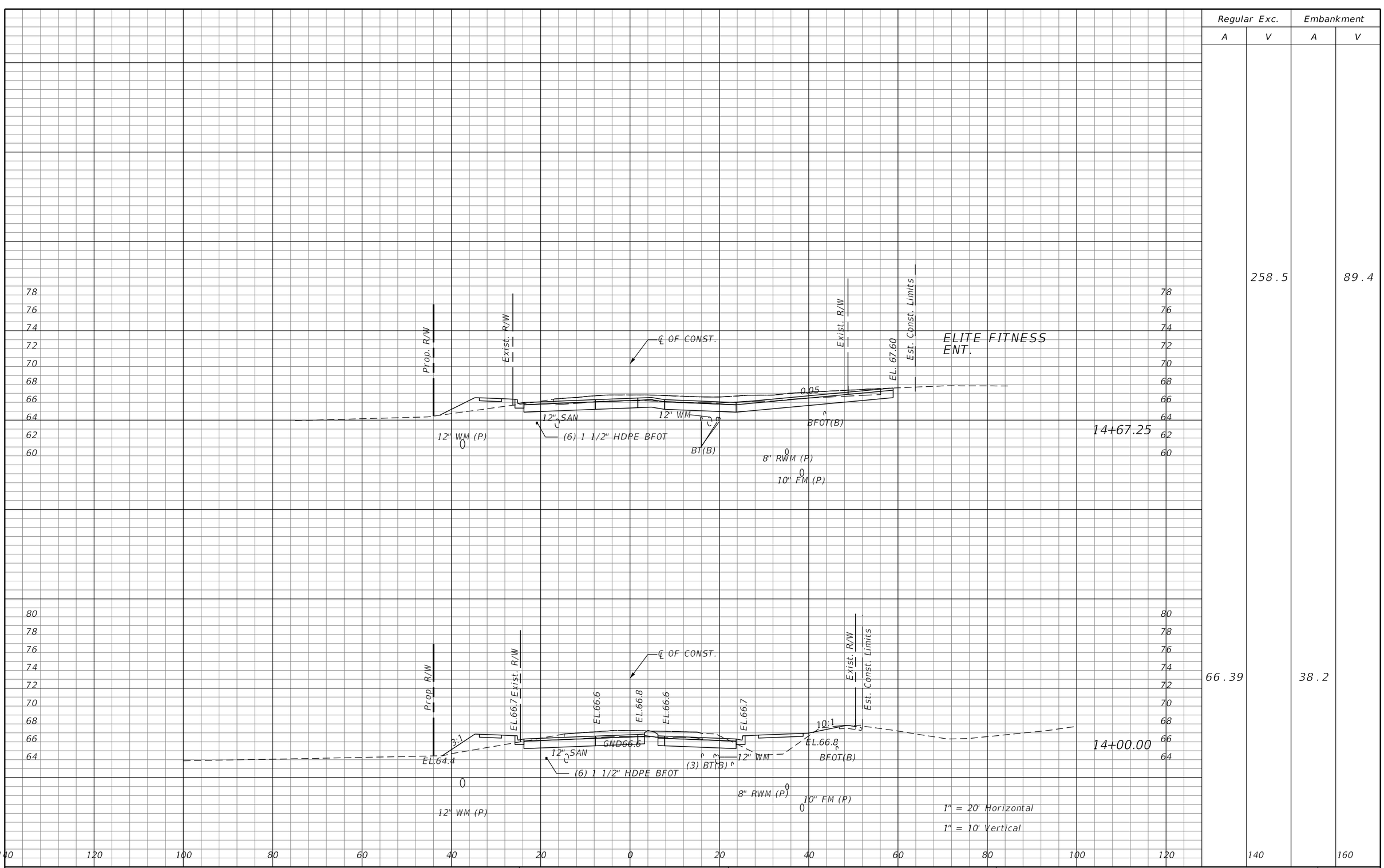
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 174

Regular Exc.		Embankment	
A	V	A	V
	258.5		89.4
	66.39		38.2
	298.5		107.1



REVISIONS			
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CERTIFICATE OF AUTHORIZATION NO.: 5917

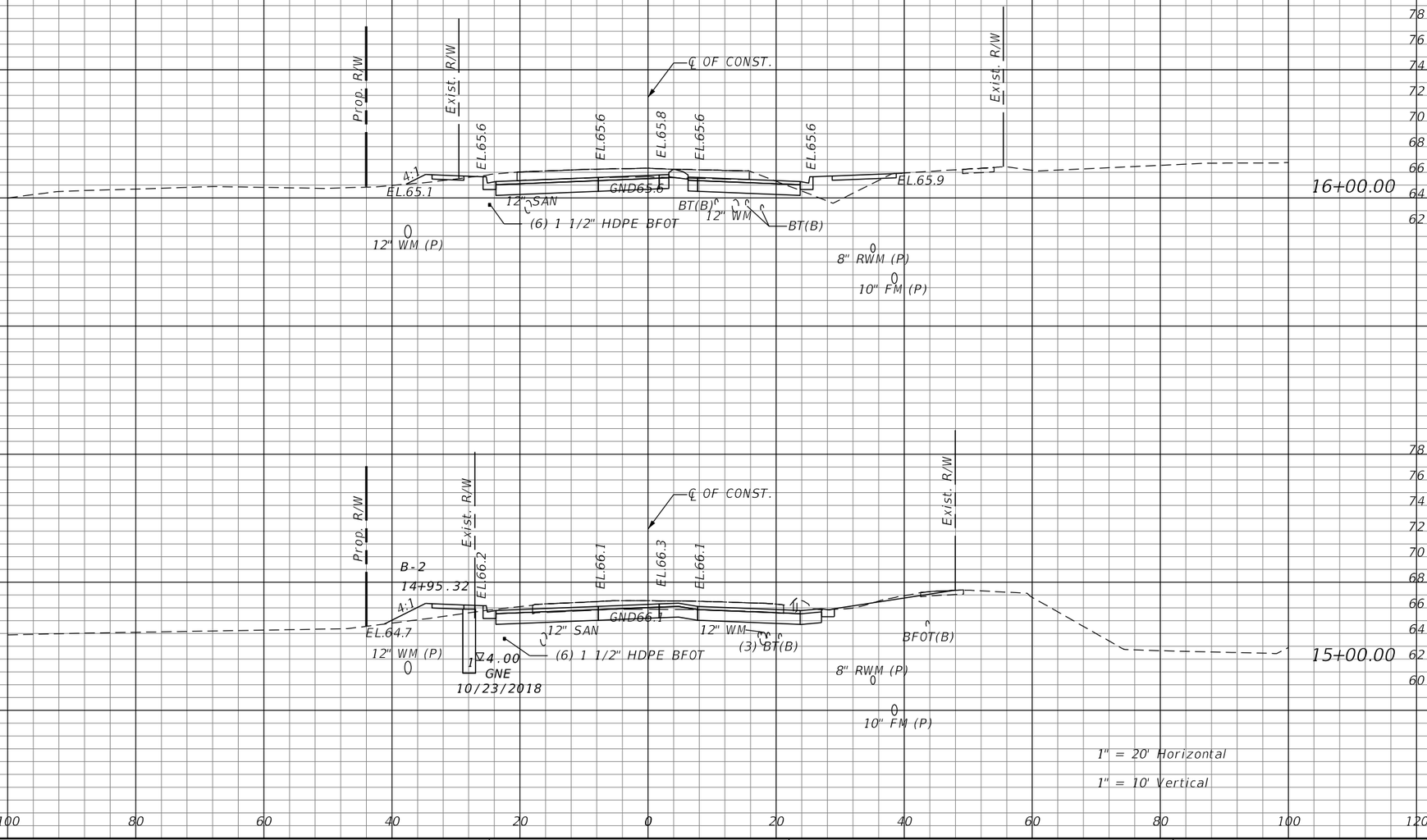
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 175

Regular Exc.		Embankment	
A	V	A	V
	282.4		41.5
75.99		14.95	
	276.3		46.4
73.22		10.08	



REVISIONS			
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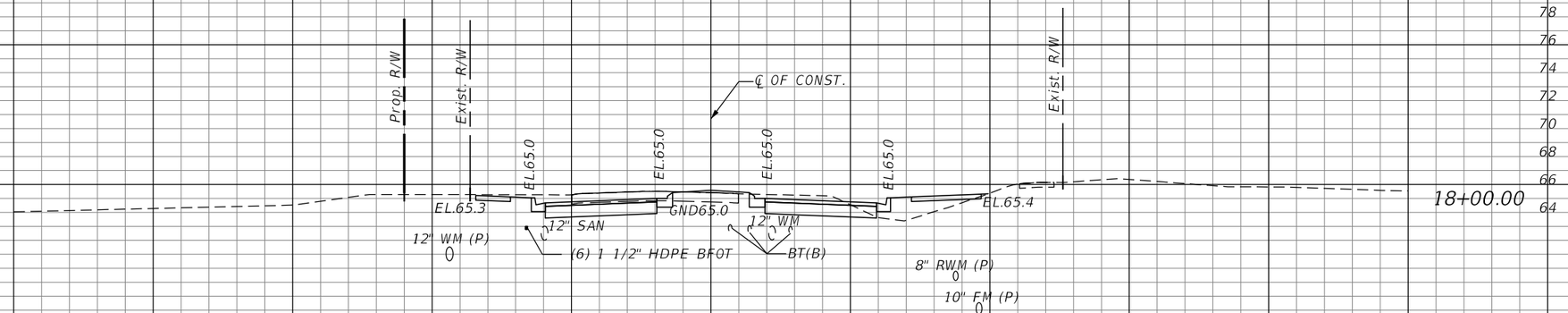
JASON R. FLICK, P.E.
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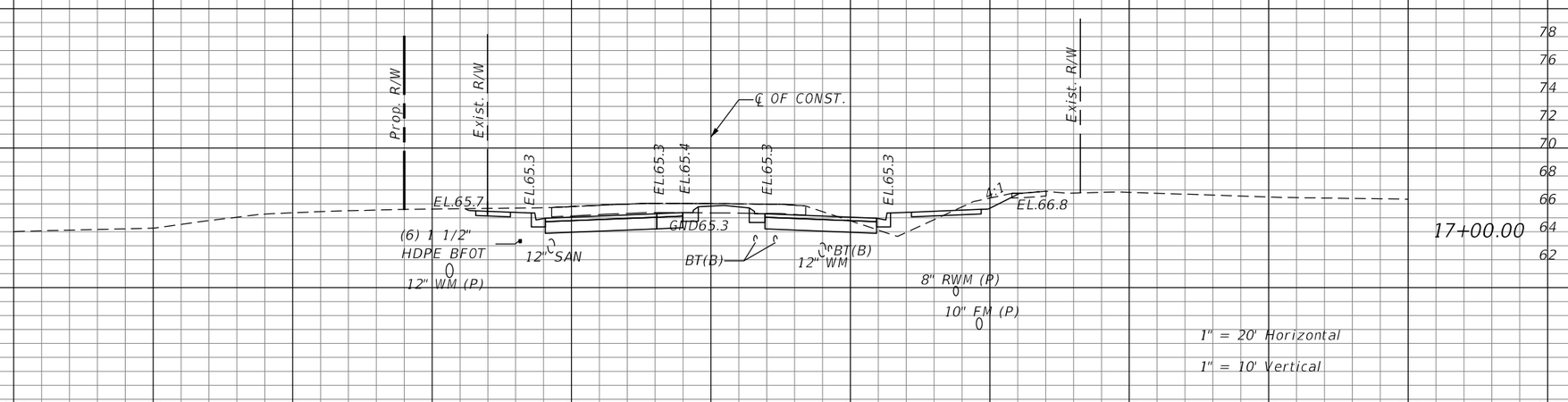
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 176





1" = 20' Horizontal

1" = 10' Vertical

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160

Regular Exc.		Embankment	
A	V	A	V
	363.5		23.1
54.48		12.49	
	242.6		37.0
76.51		7.47	

REVISIONS			
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LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

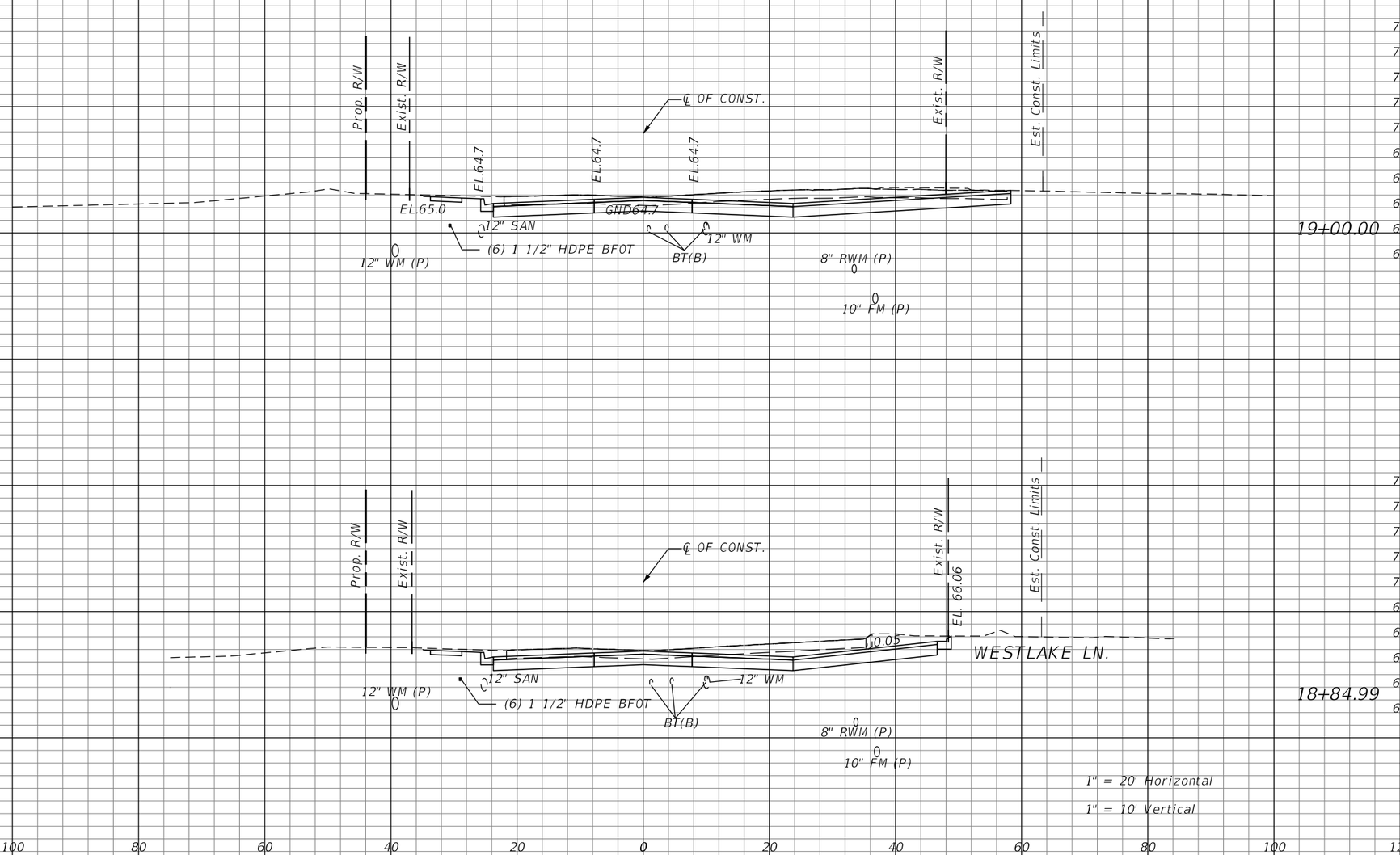
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 177

Regular Exc.		Embankment	
A	V	A	V
141.8	494.4	0	1.7



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

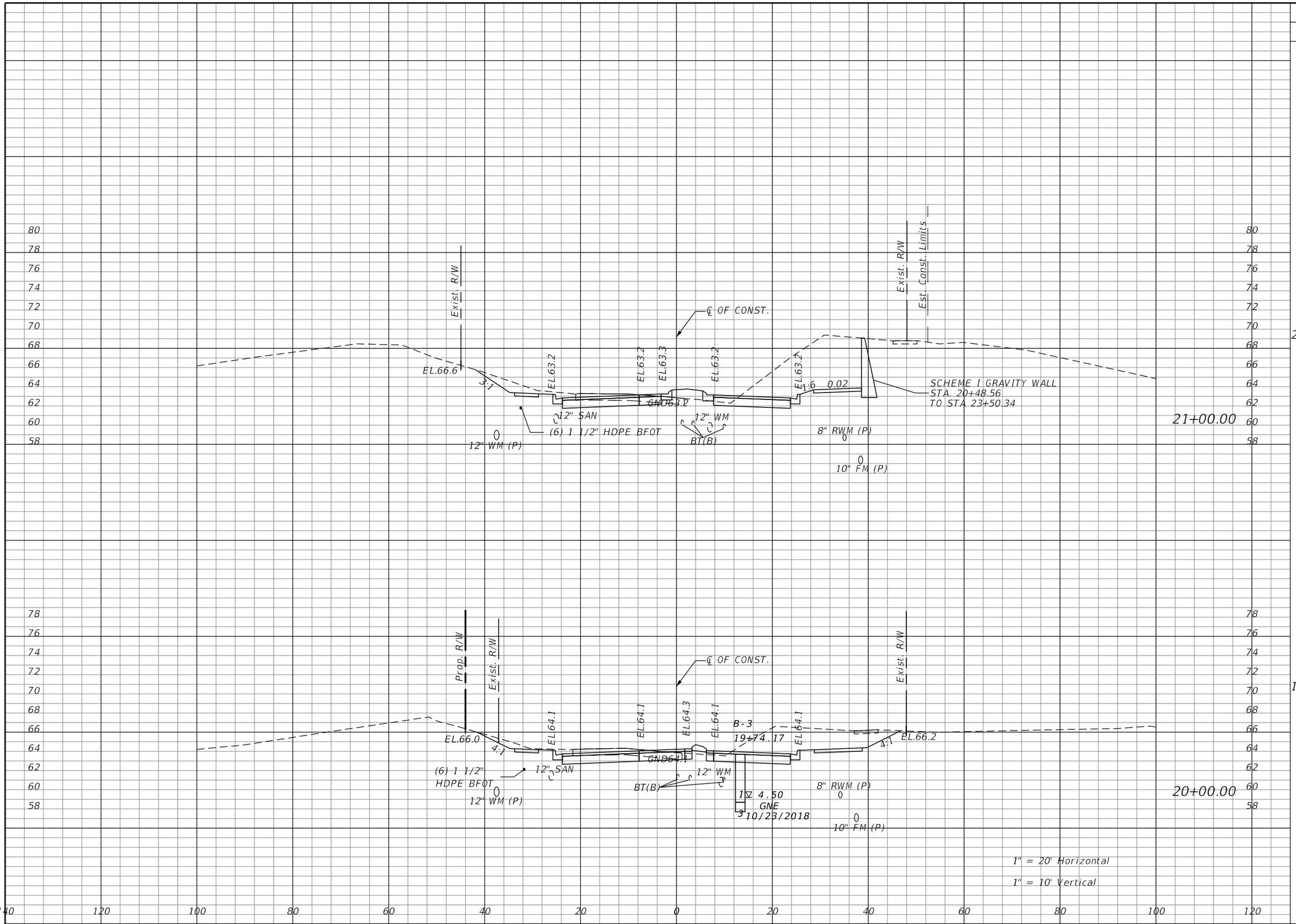
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 178



Regular Exc.		Embankment	
A	V	A	V
	744.4		30.9
213.31		6.08	
	626.8		12.9
125.15		0.91	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
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JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

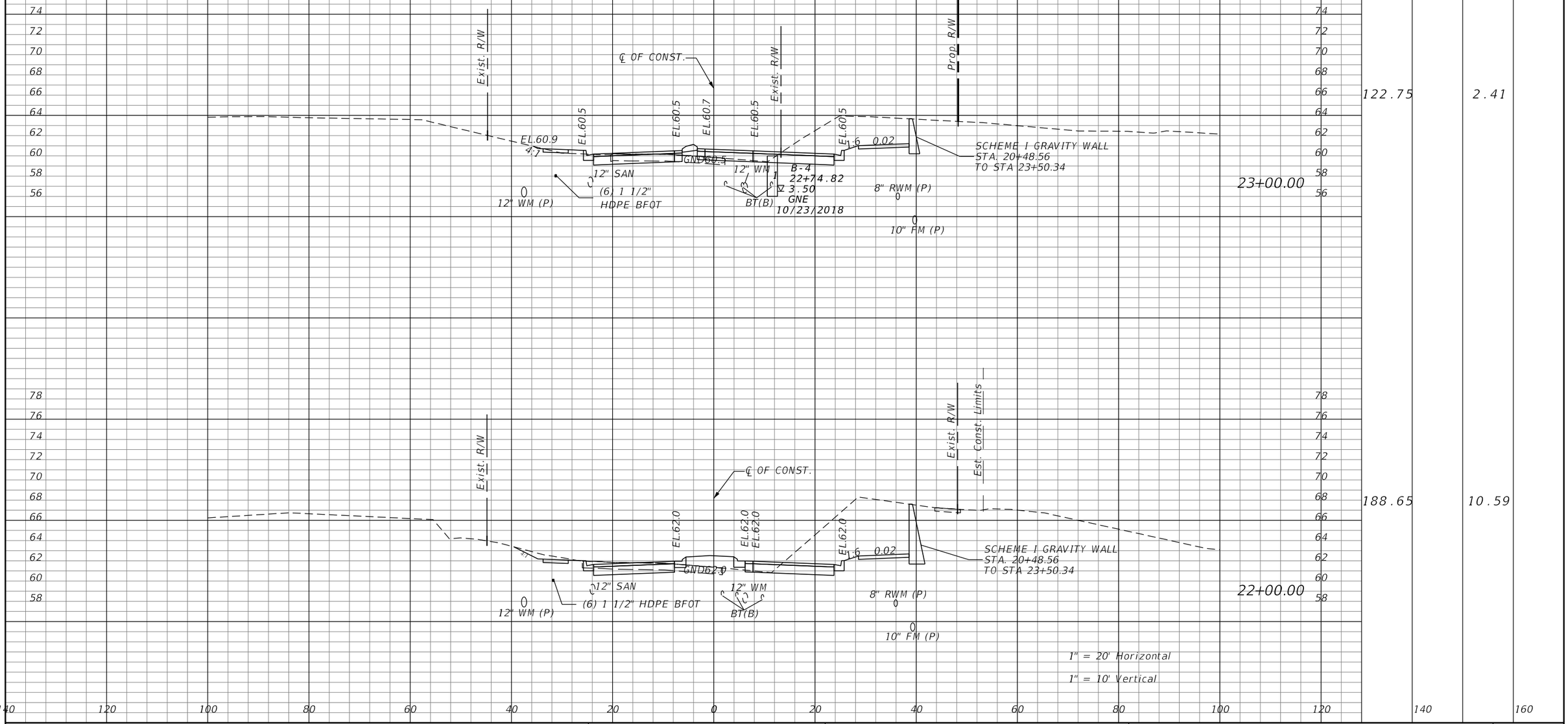
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 179

Regular Exc.		Embankment	
A	V	A	V
122.75		2.41	
188.65		10.59	



REVISIONS			
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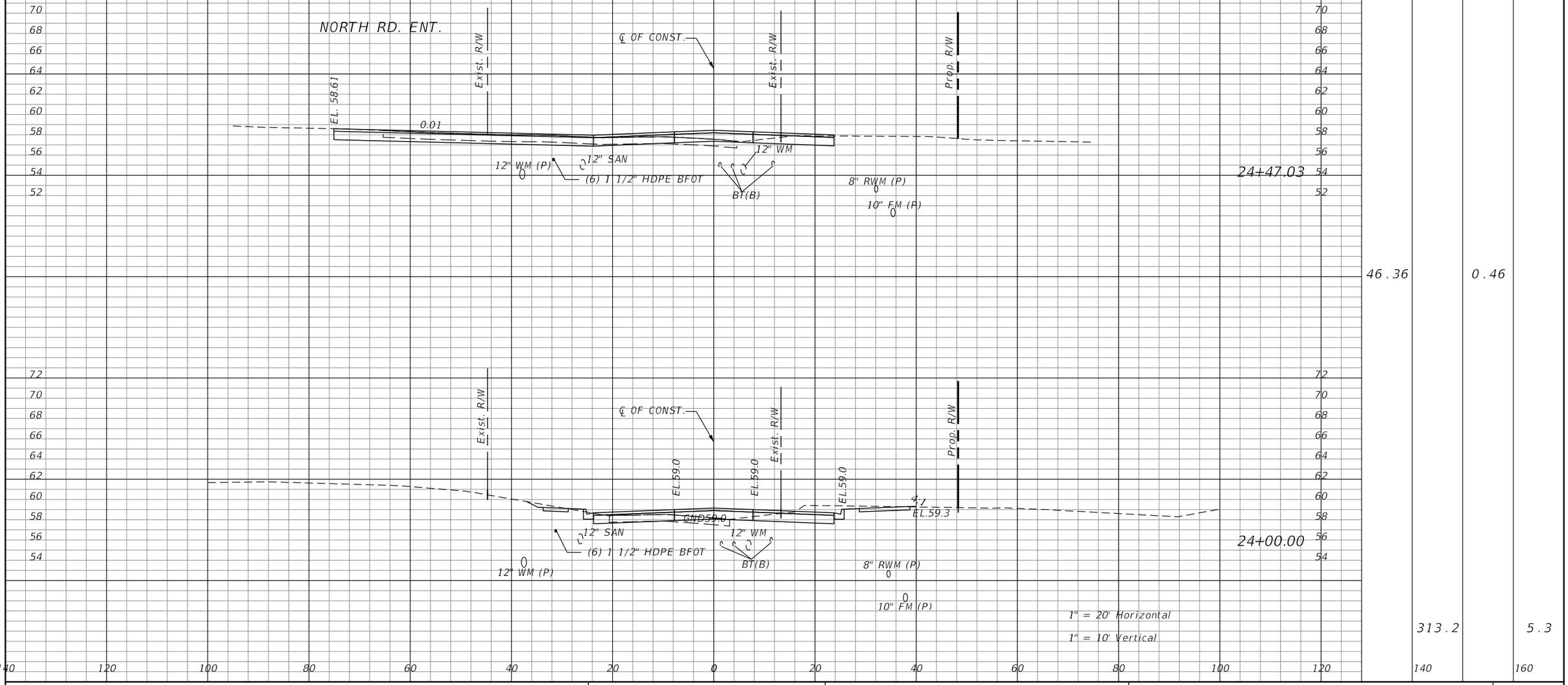
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 180

Regular Exc.		Embankment	
A	V	A	V
46.36		0.46	
313.2		5.3	



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

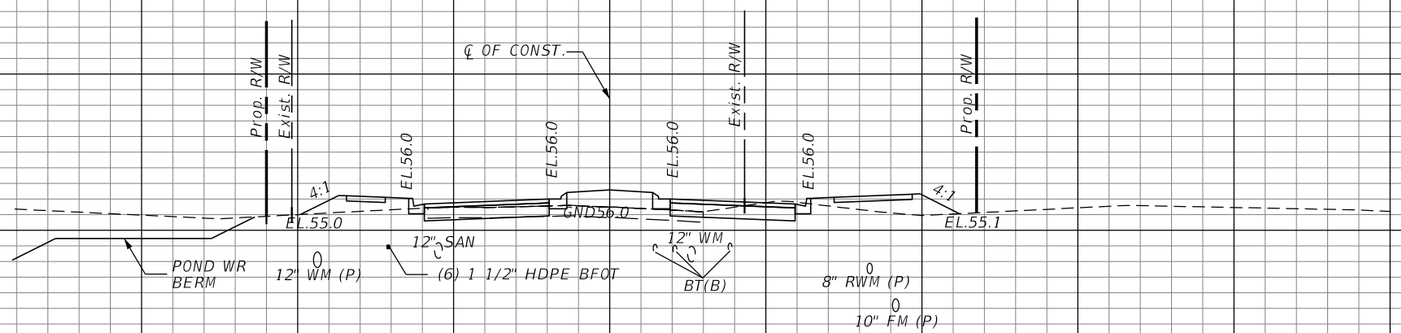
JASON R. FLICK, P.E.
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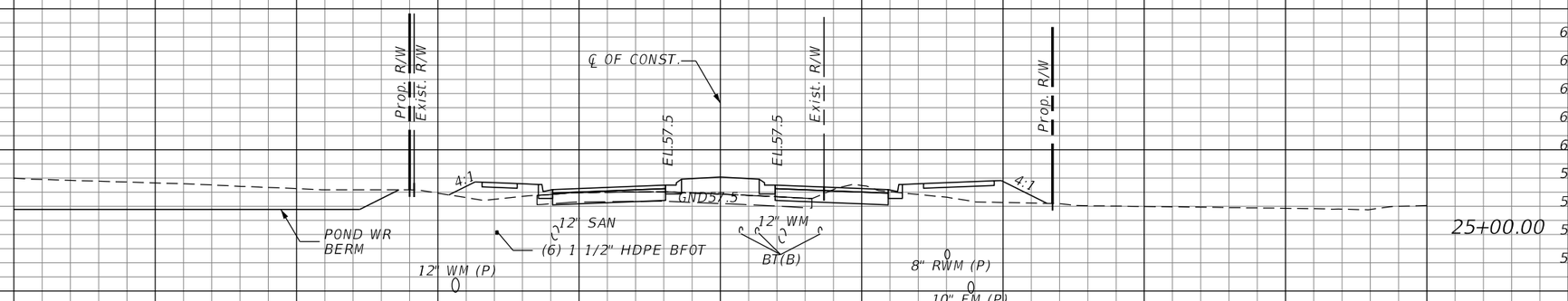
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 181





1" = 20' Horizontal

1" = 10' Vertical

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160

Regular Exc.		Embankment	
A	V	A	V
	90.0		130.8
26.1		32.85	
	95.6		111.3
25.54		27.27	

REVISIONS			
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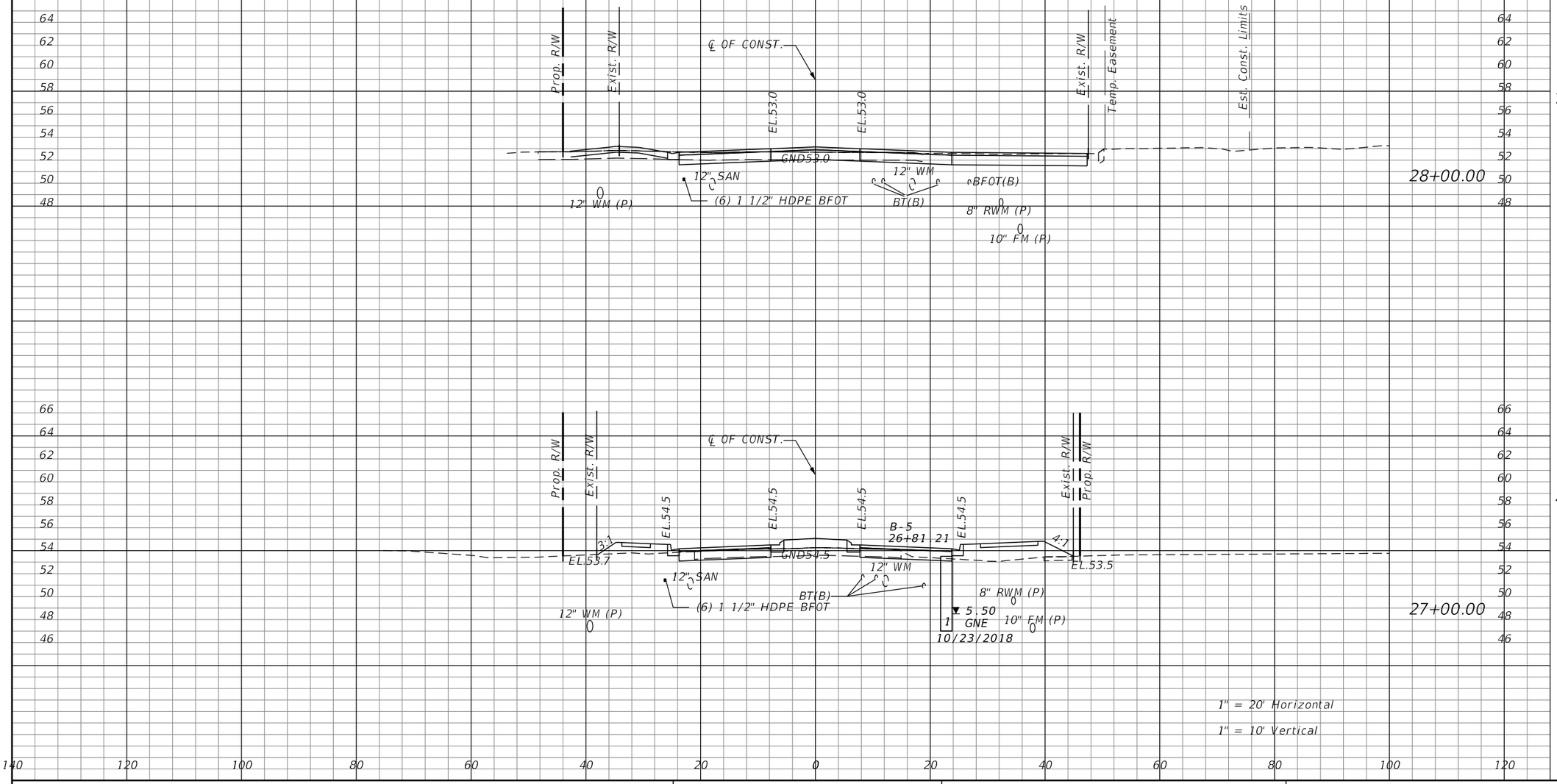
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 182

Regular Exc.		Embankment	
A	V	A	V
70.32	243.1	0	2.1
22.48	171.9	37.79	70.0



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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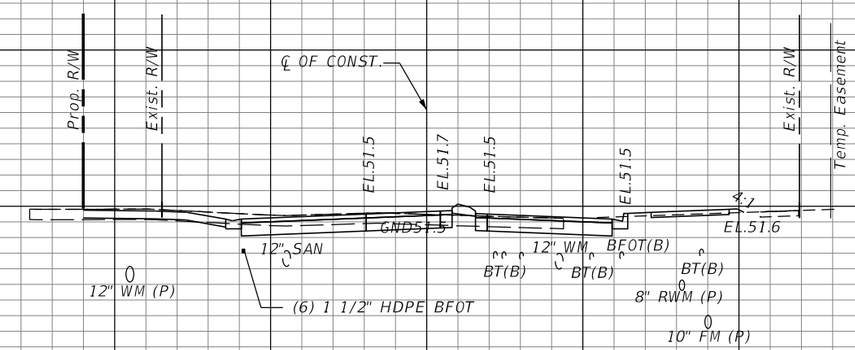
SEMINOLE COUNTY PUBLIC WORKS

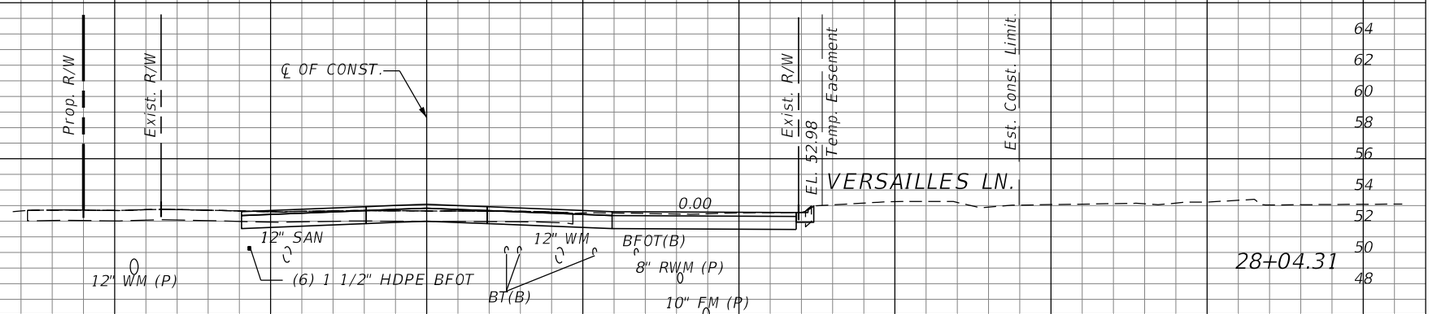
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 183

Regular Exc.		Embankment	
A	V	A	V
	214.0		50.8
60.95		1.11	





REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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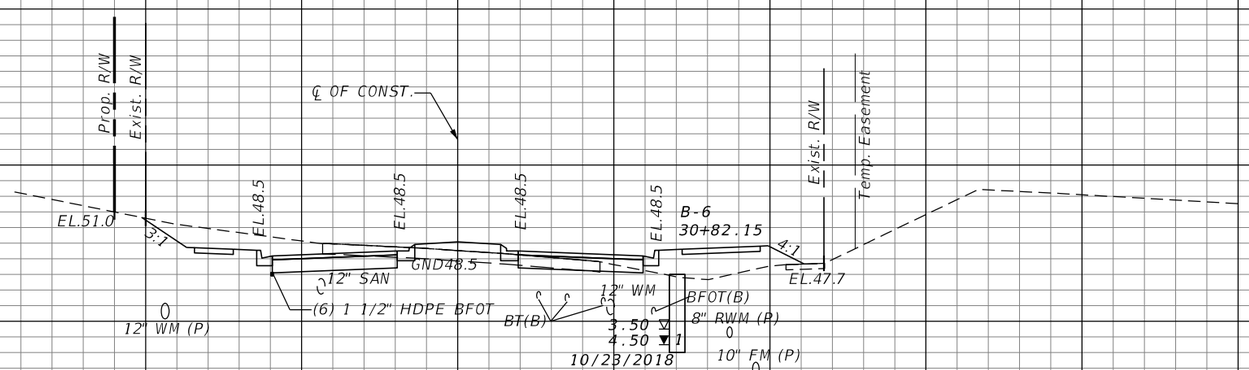
SEMINOLE COUNTY PUBLIC WORKS

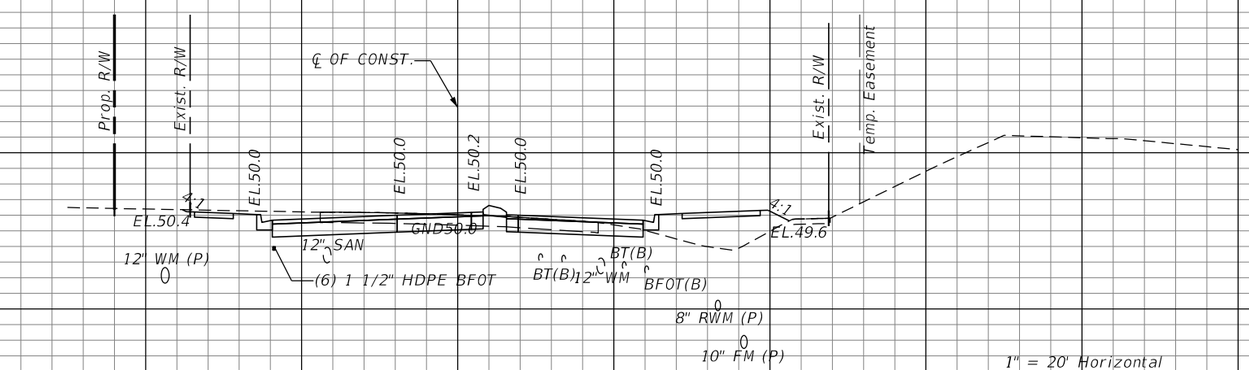
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 184

Regular Exc.		Embankment	
A	V	A	V
60.62	372.0	29.63	98.3
54.62	213.4	26.34	103.7





1" = 20' Horizontal

1" = 10' Vertical

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

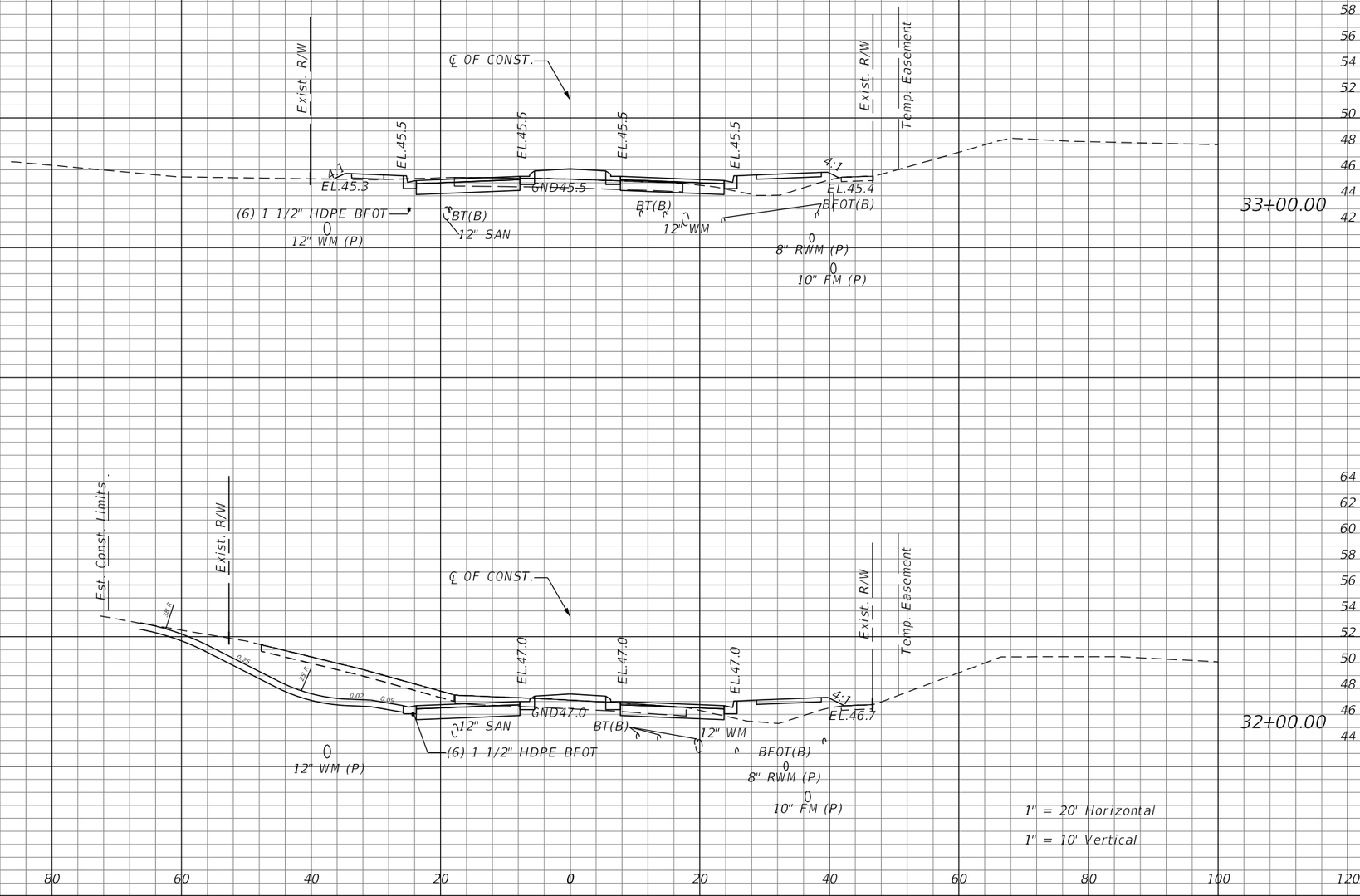
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
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SEMINOLE COUNTY PUBLIC WORKS

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CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 185



Regular Exc.		Embankment	
A	V	A	V
65.19	193.4	25.75	160.1
140.27	380.5	23.44	91.1

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

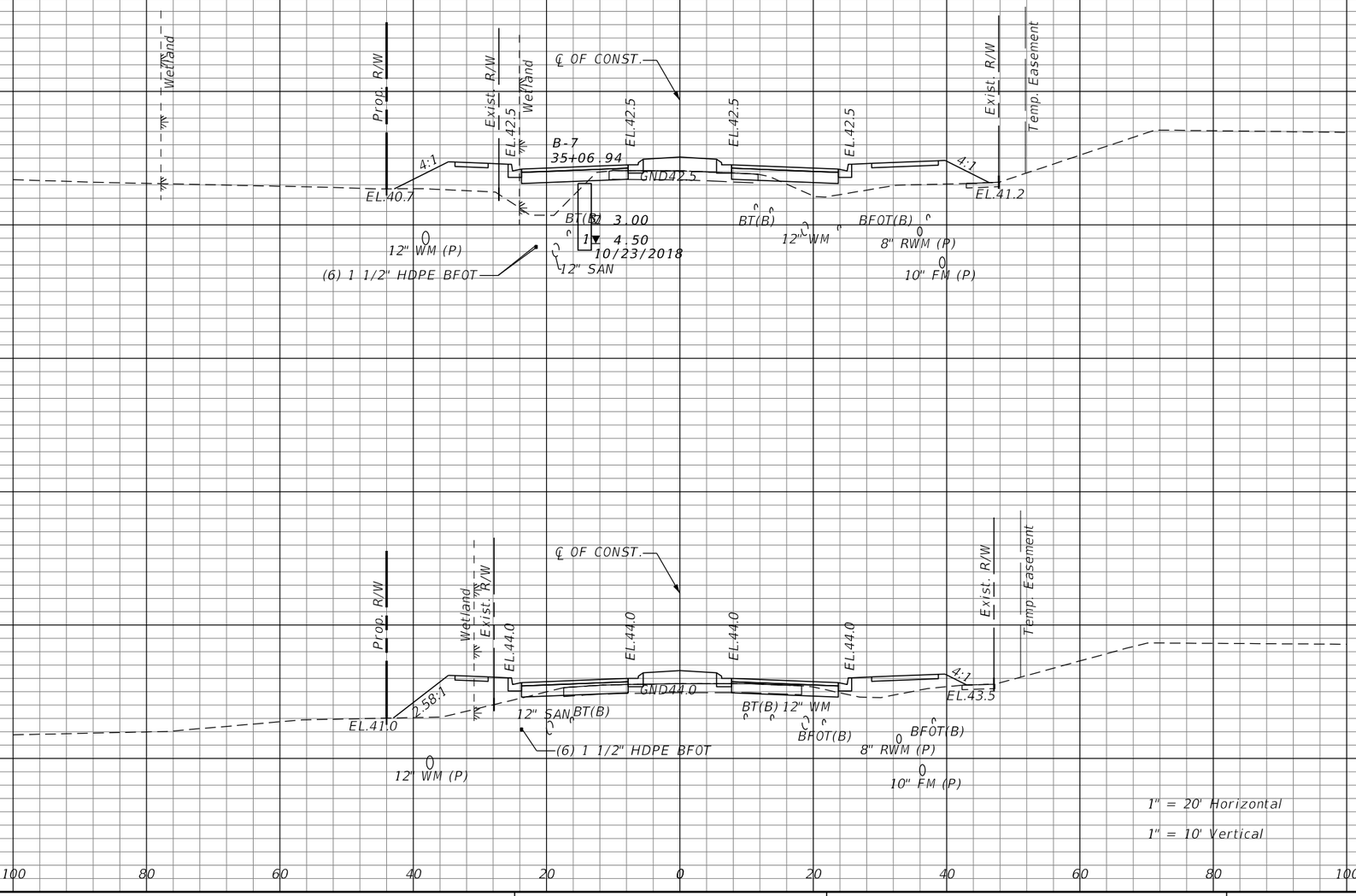
JASON R. FLICK, P.E.
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SEMINOLE COUNTY PUBLIC WORKS

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CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 186



Regular Exc.		Embankment	
A	V	A	V
6.88	26.2	85	347.9
39.24	85.4	60.72	269.9

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

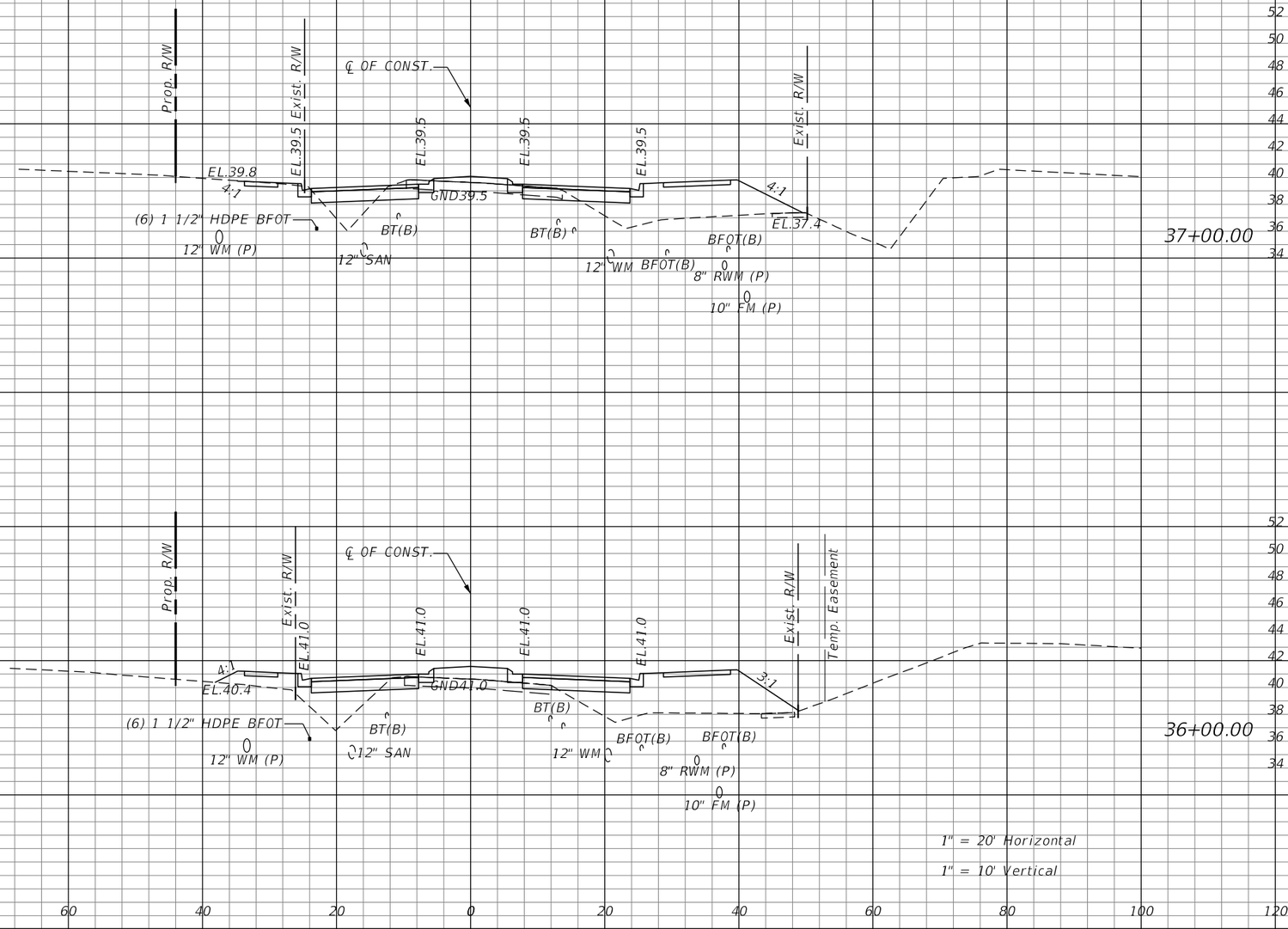
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 187



Regular Exc.		Embankment	
A	V	A	V
	101.8		216.9
20.36		72.63	
	51.2		325.0
7.27		102.89	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

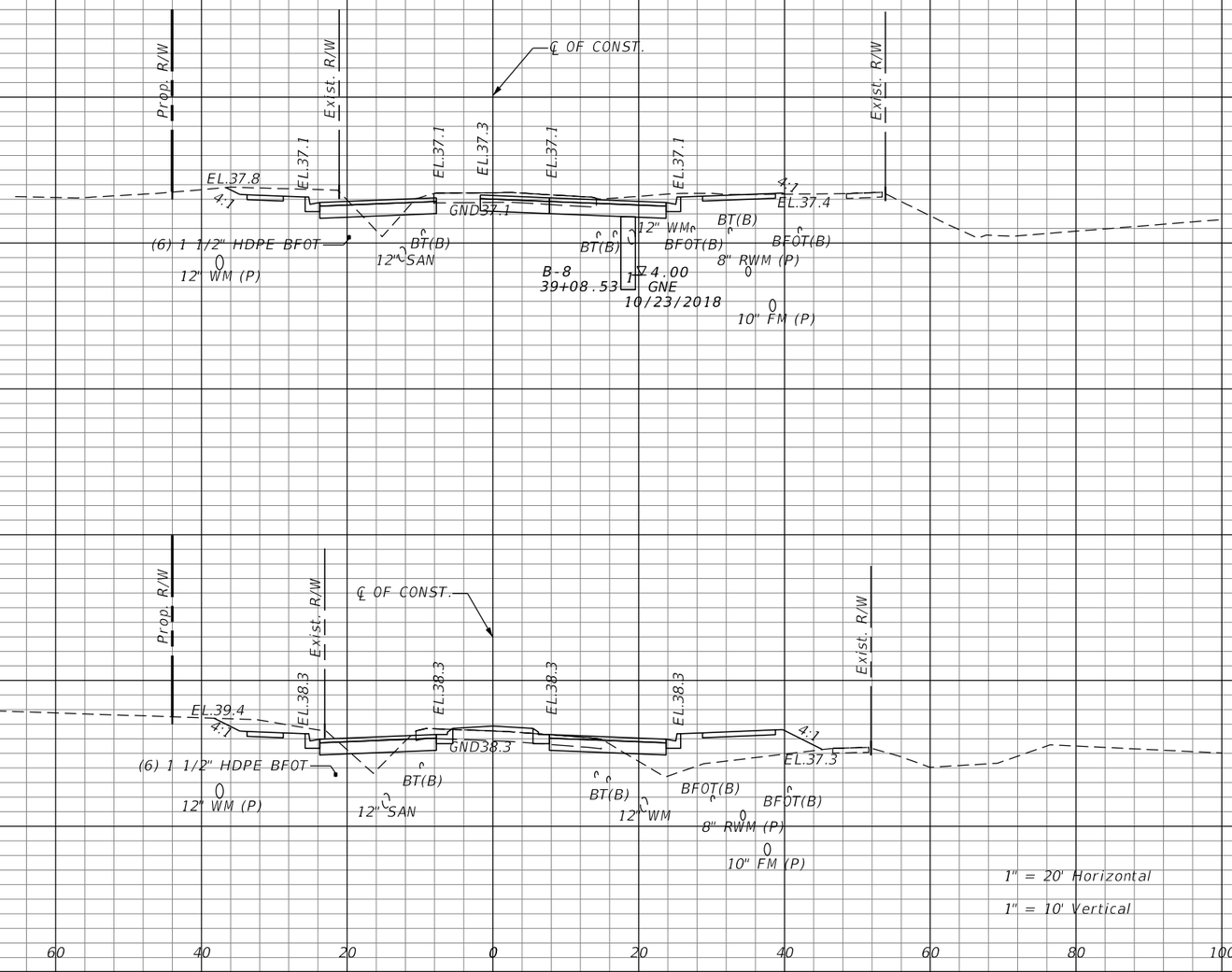
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 188



Regular Exc.		Embankment	
A	V	A	V
	183.6		81.7
63.69		3.85	
	182.0		89.5
34.59		44.48	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

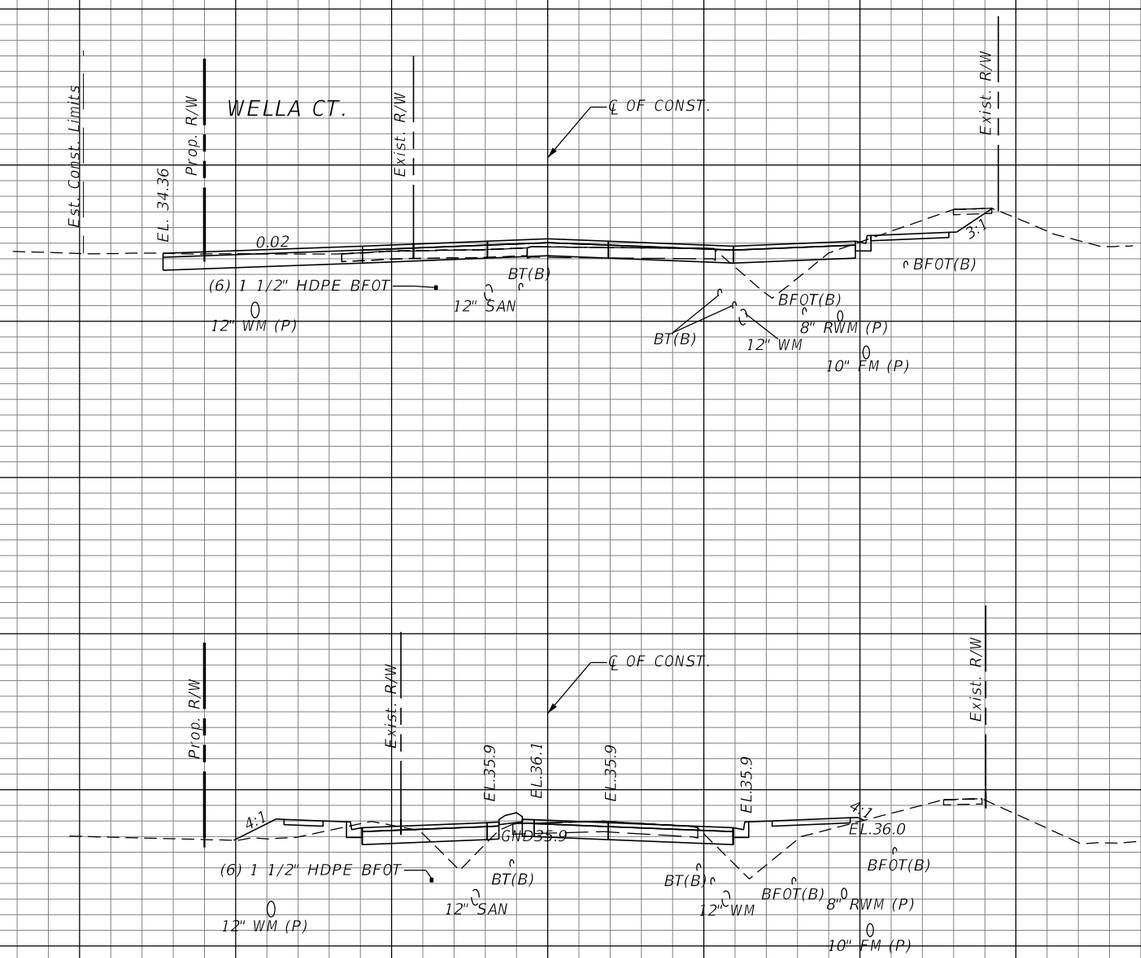
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 189

Regular Exc.		Embankment	
A	V	A	V
		35.44	40.28



1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

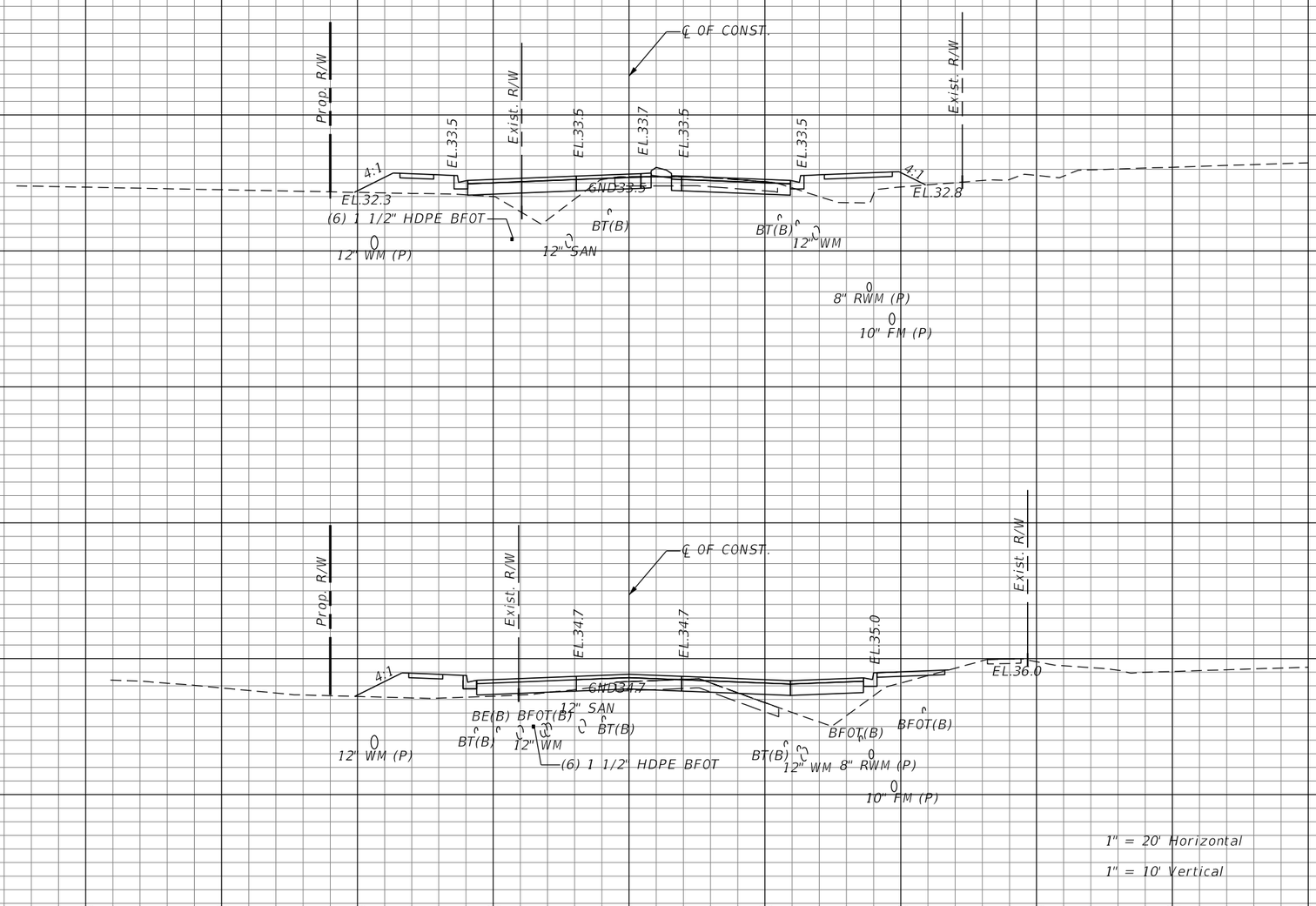
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 190



Regular Exc.		Embankment	
A	V	A	V
	108.4		186.7
23.7		55.92	
	82.9		189.9
21.06		46.61	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

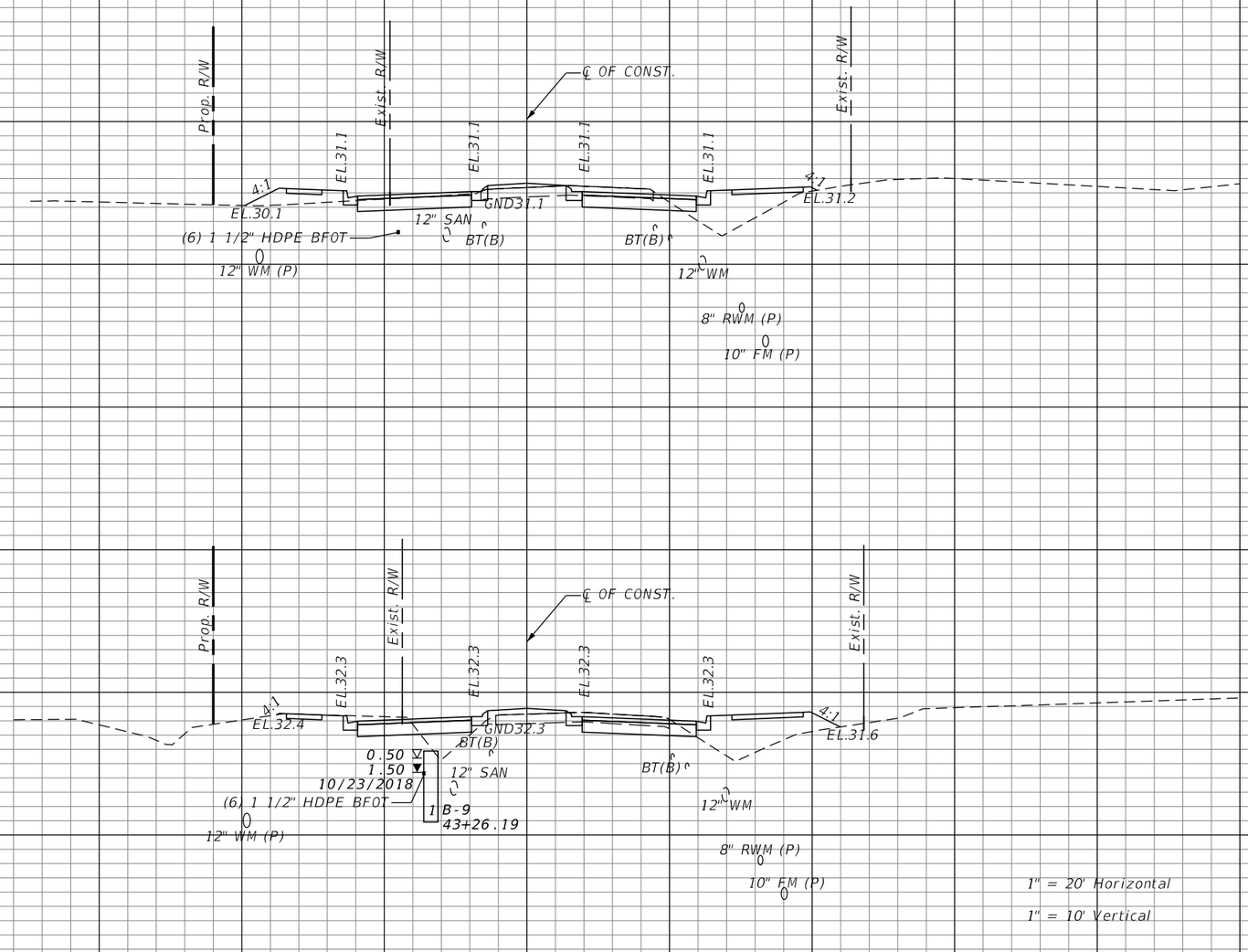
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 191



Regular Exc.		Embankment	
A	V	A	V
	126.2		139.1
34.83		37.42	
	129.0		152.4
34.82		44.87	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

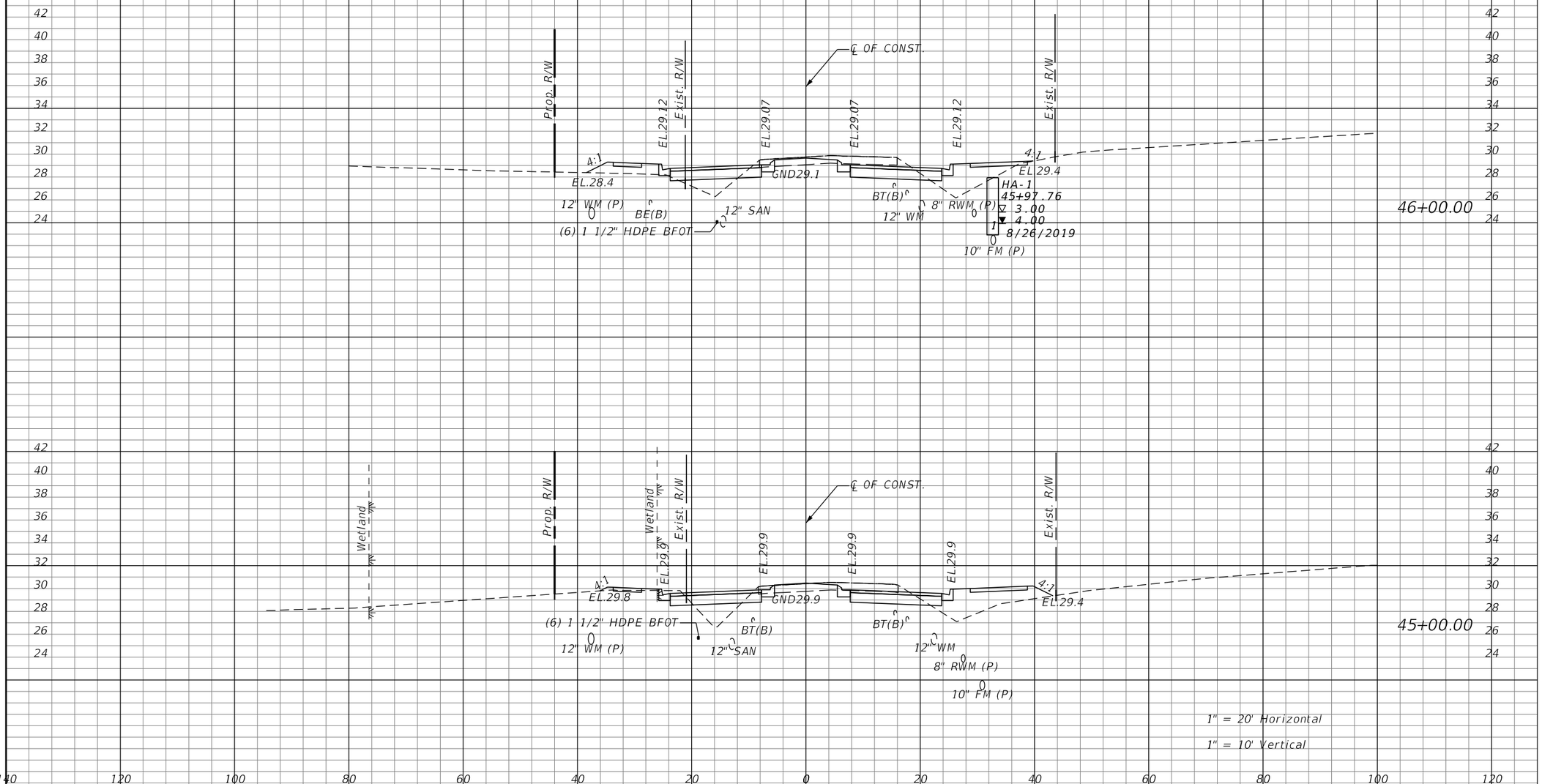
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 192



Regular Exc.		Embankment	
A	V	A	V
	201.7		103.7
31.95		55.82	
	120.9		173.1
33.33		37.67	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

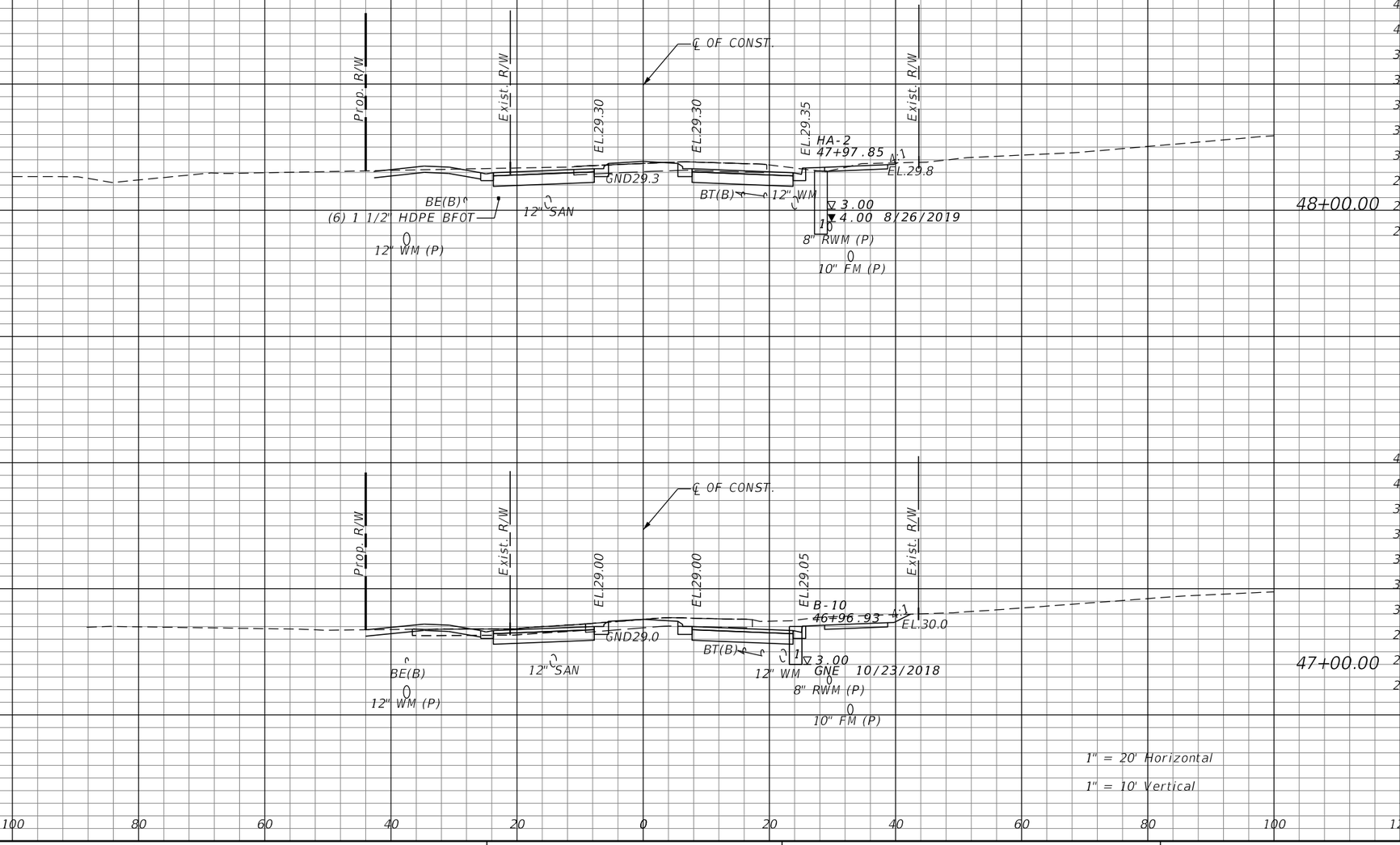
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SEMINOLE COUNTY PUBLIC WORKS

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CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 193



Regular Exc.		Embankment	
A	V	A	V
	172.3		90.1
61.94		1.84	
	257.3		3.8
76.99		0.2	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

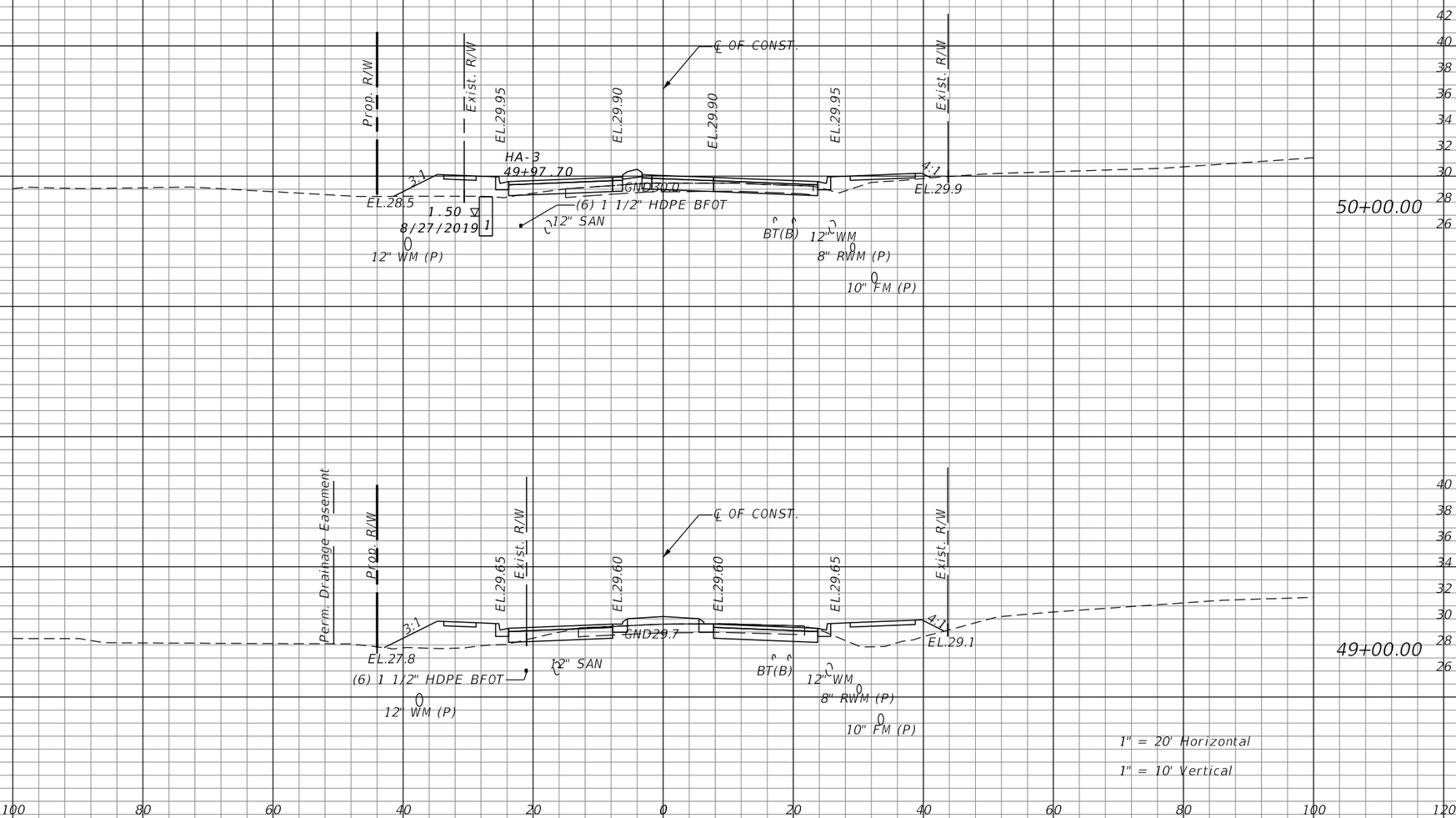
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SEMINOLE COUNTY PUBLIC WORKS

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CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 194



Regular Exc.		Embankment	
A	V	A	V
	236.70		152.91
99.56		52.51	
	150.2		138.0
31.08		46.83	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

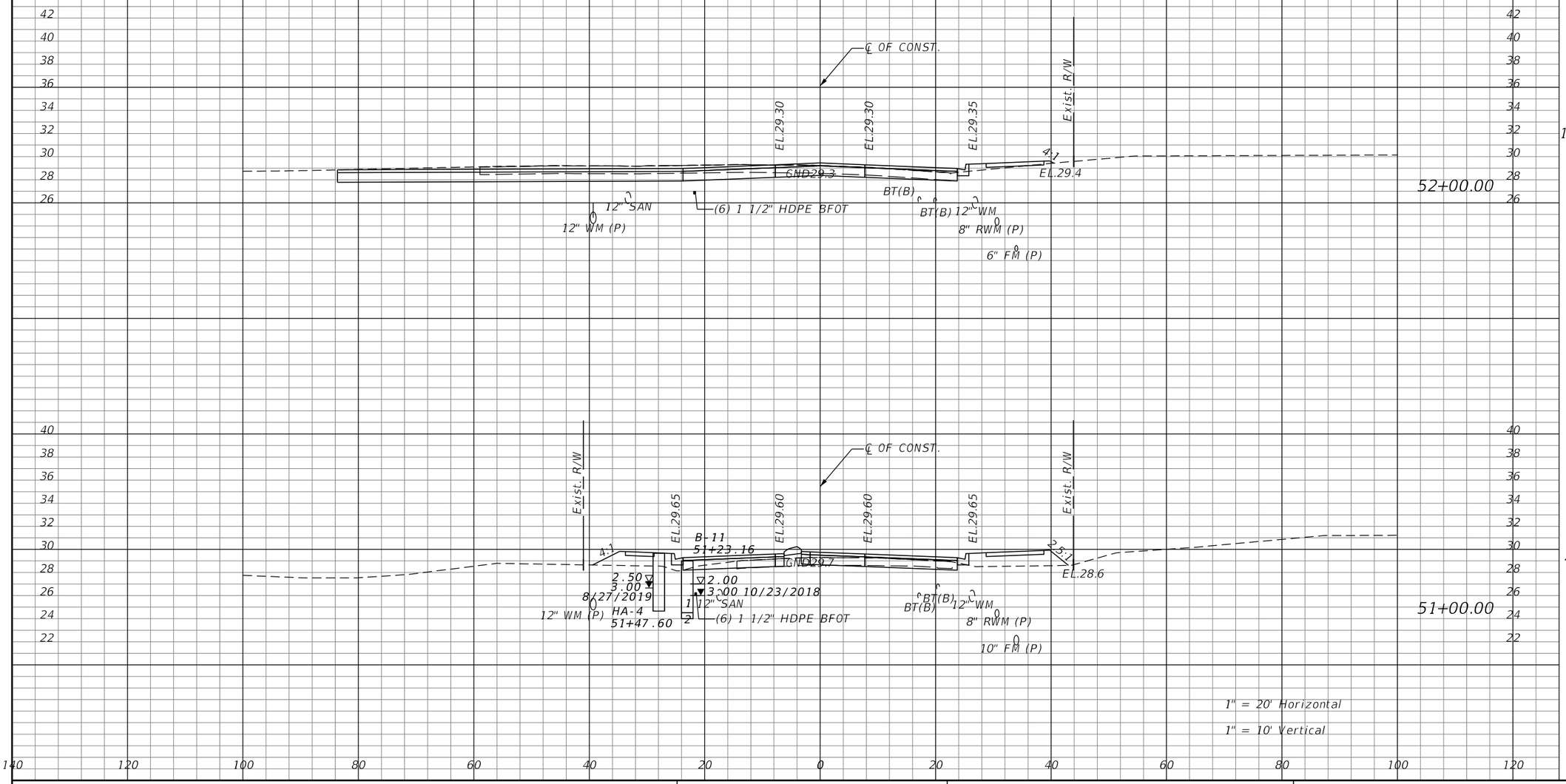
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P.E. LICENSE NUMBER 74741
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SEMINOLE COUNTY PUBLIC WORKS

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CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 195



Regular Exc.		Embankment	
A	V	A	V
	396.7		20.5
172.96		2.75	
	372.6		60.8
28.26		30.06	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
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400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

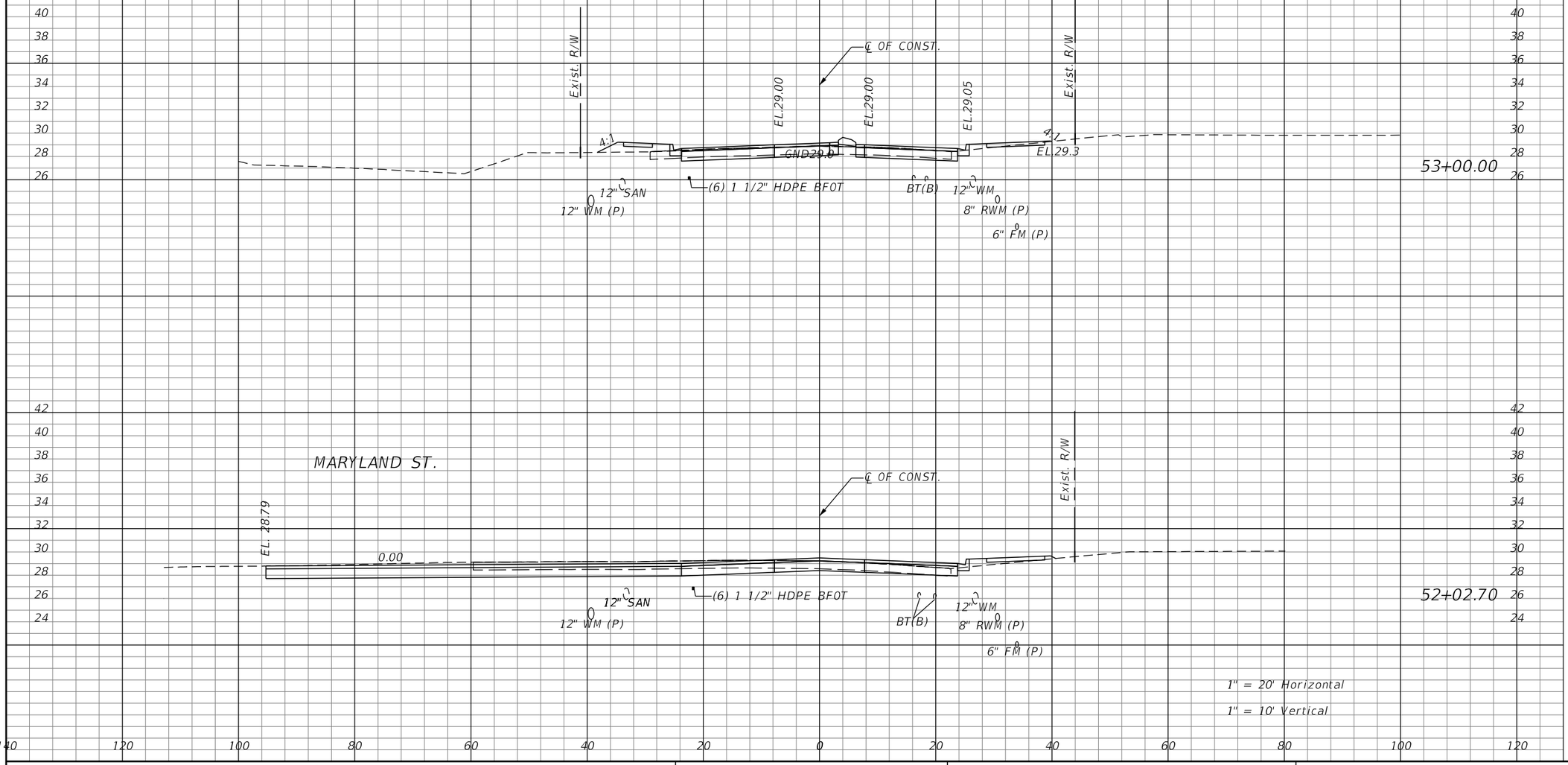
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 196

Regular Exc.		Embankment	
A	V	A	V
41.27		8.31	



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

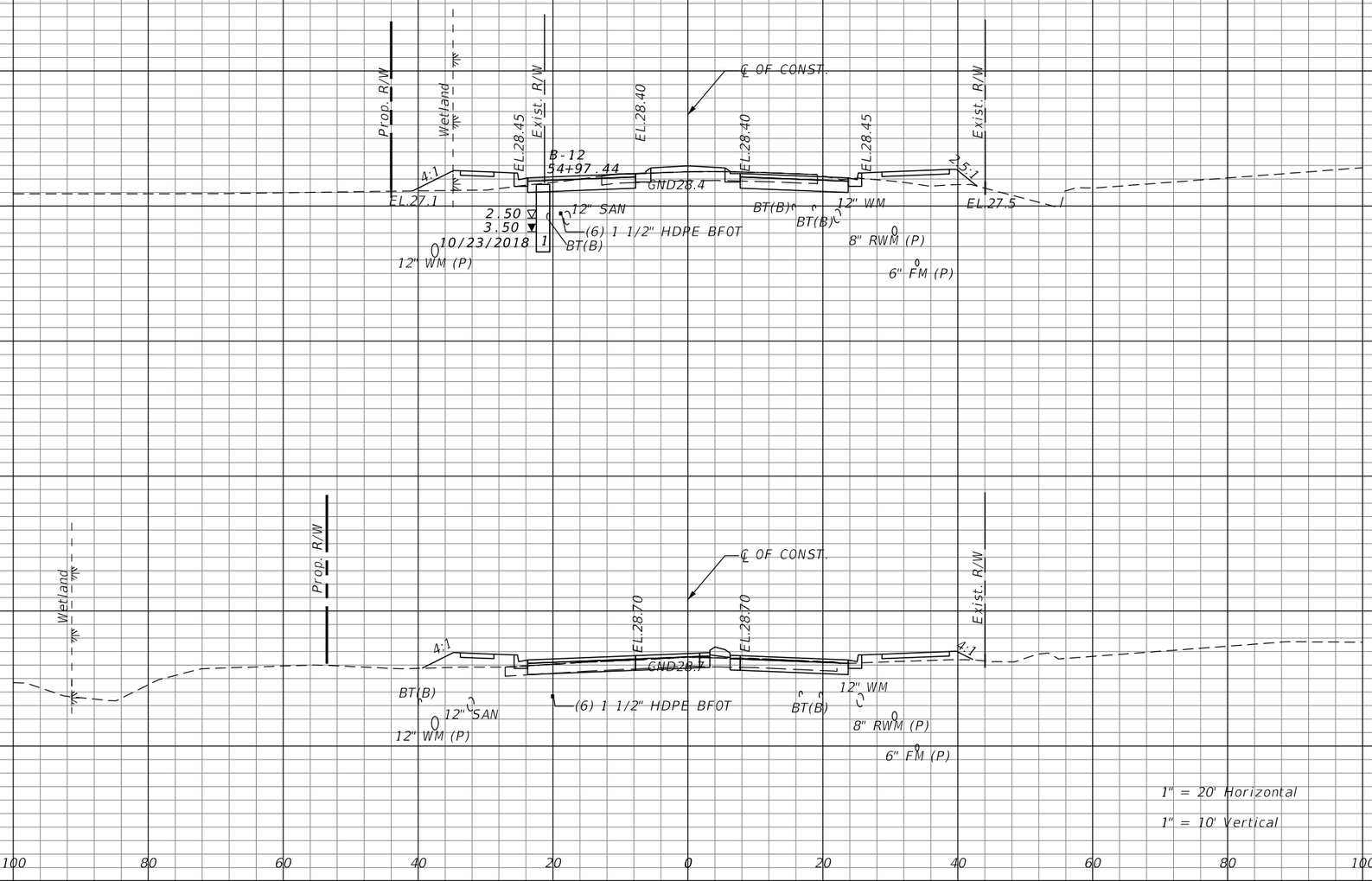
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SEMINOLE COUNTY PUBLIC WORKS

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CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 197



Regular Exc.		Embankment	
A	V	A	V
	114.9		112.9
37.03		29.27	
	136.7		83.8
36.76		15.99	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

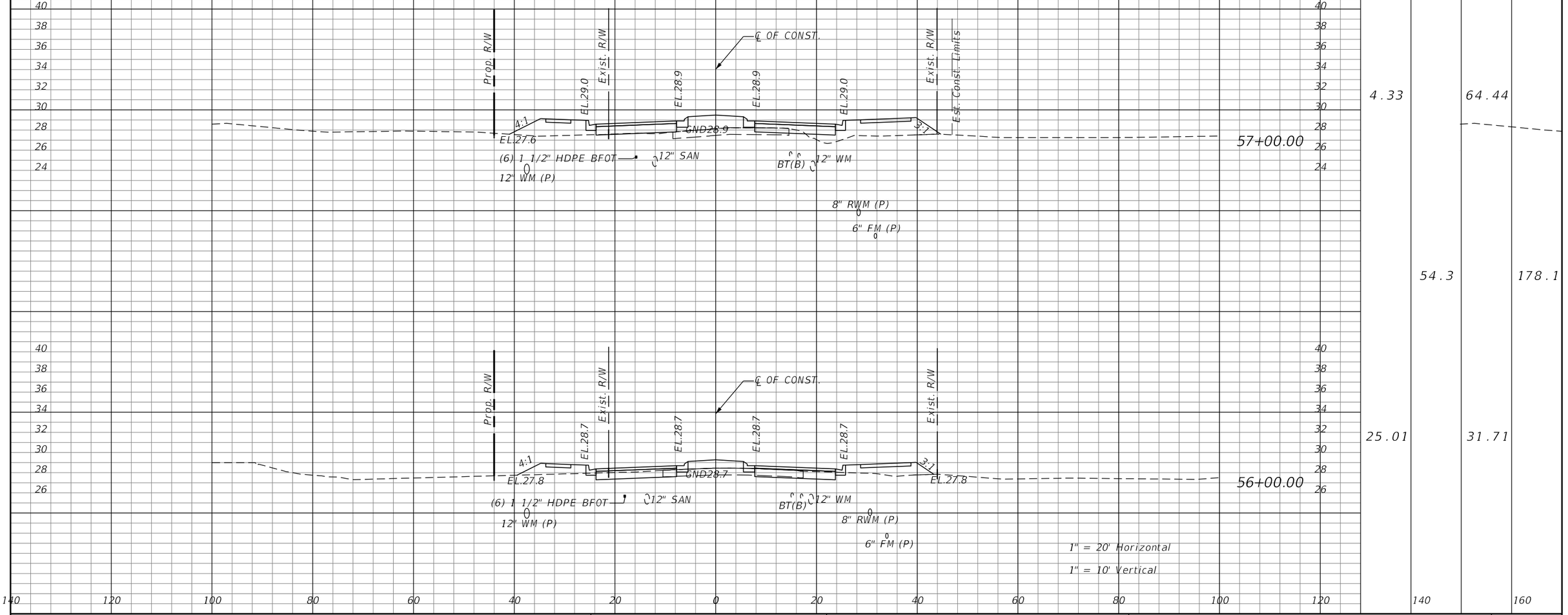
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SEMINOLE COUNTY PUBLIC WORKS

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ROADWAY CROSS-SECTIONS

SHEET NO. 198



Regular Exc.		Embankment	
A	V	A	V
4.33		64.44	
54.3		178.1	
25.01		31.71	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

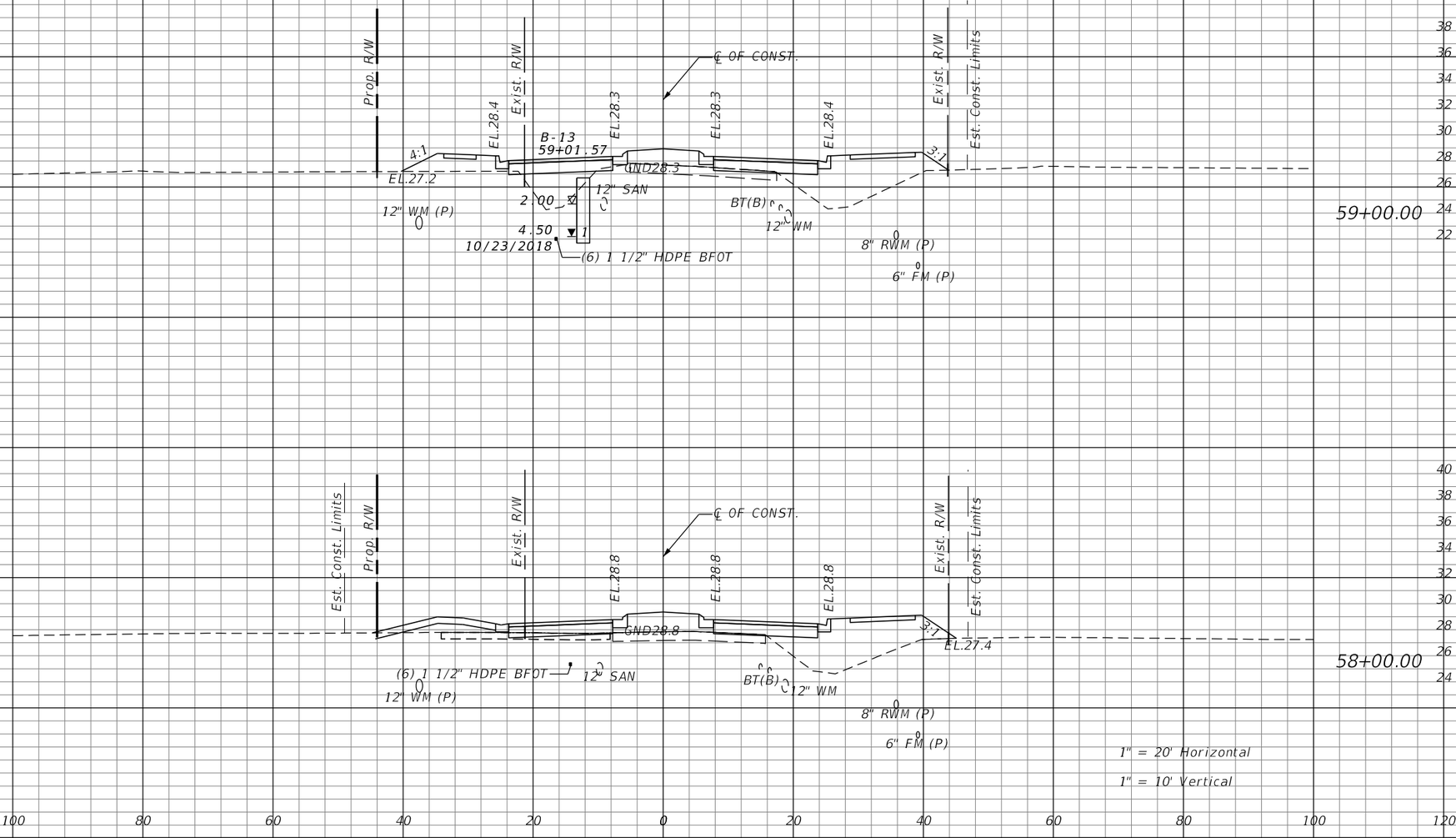
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P.E. LICENSE NUMBER 74741
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 199



Regular Exc.		Embankment	
A	V	A	V
	17.9		359.0
2.64		100.6	
	13.9		345.9
4.85		86.18	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

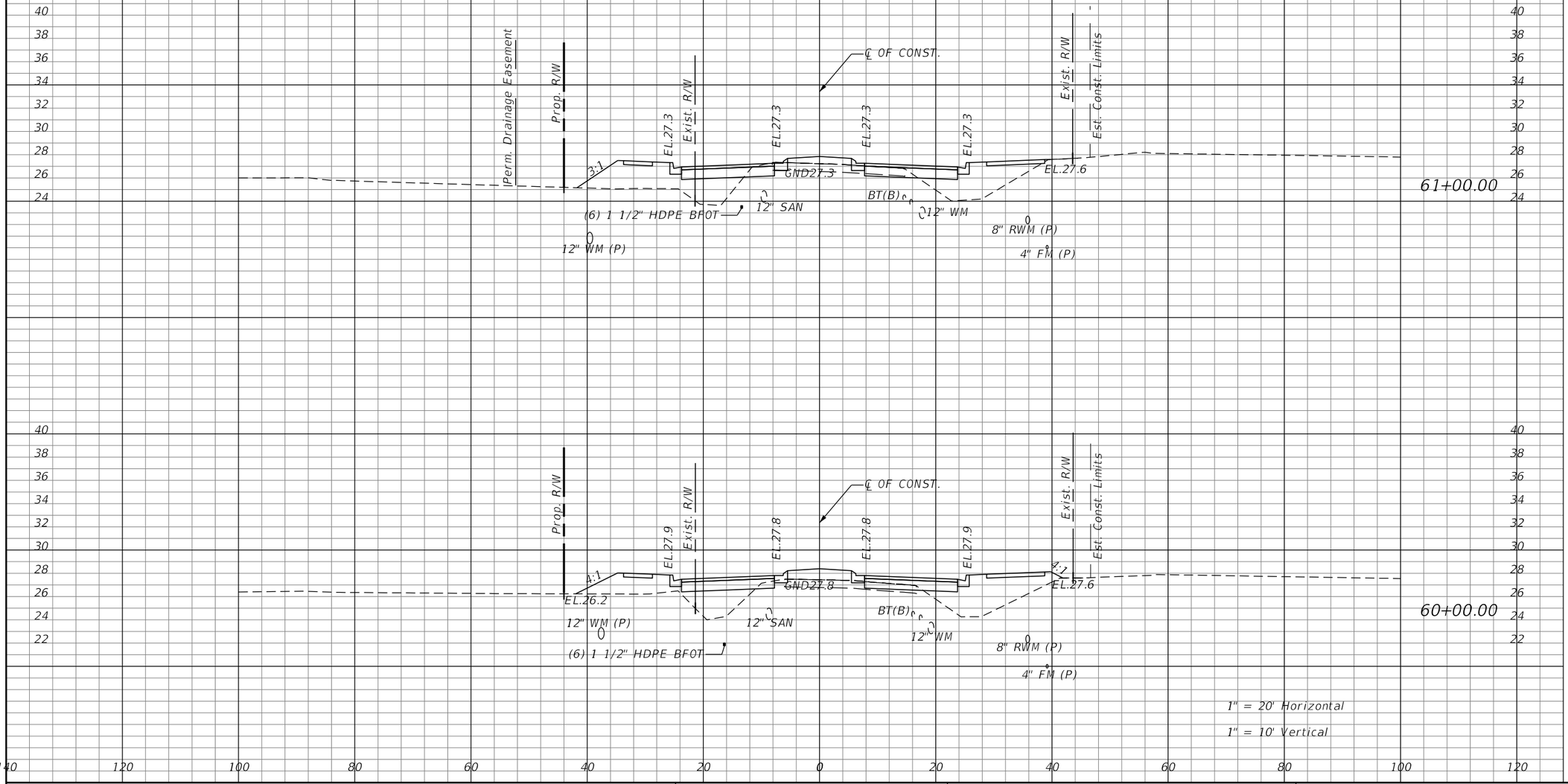
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P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
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LAKE MARY, FL 32746
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 200



Regular Exc.		Embankment	
A	V	A	V
13.42		88.03	
	37.8		335.7
7.01		93.24	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

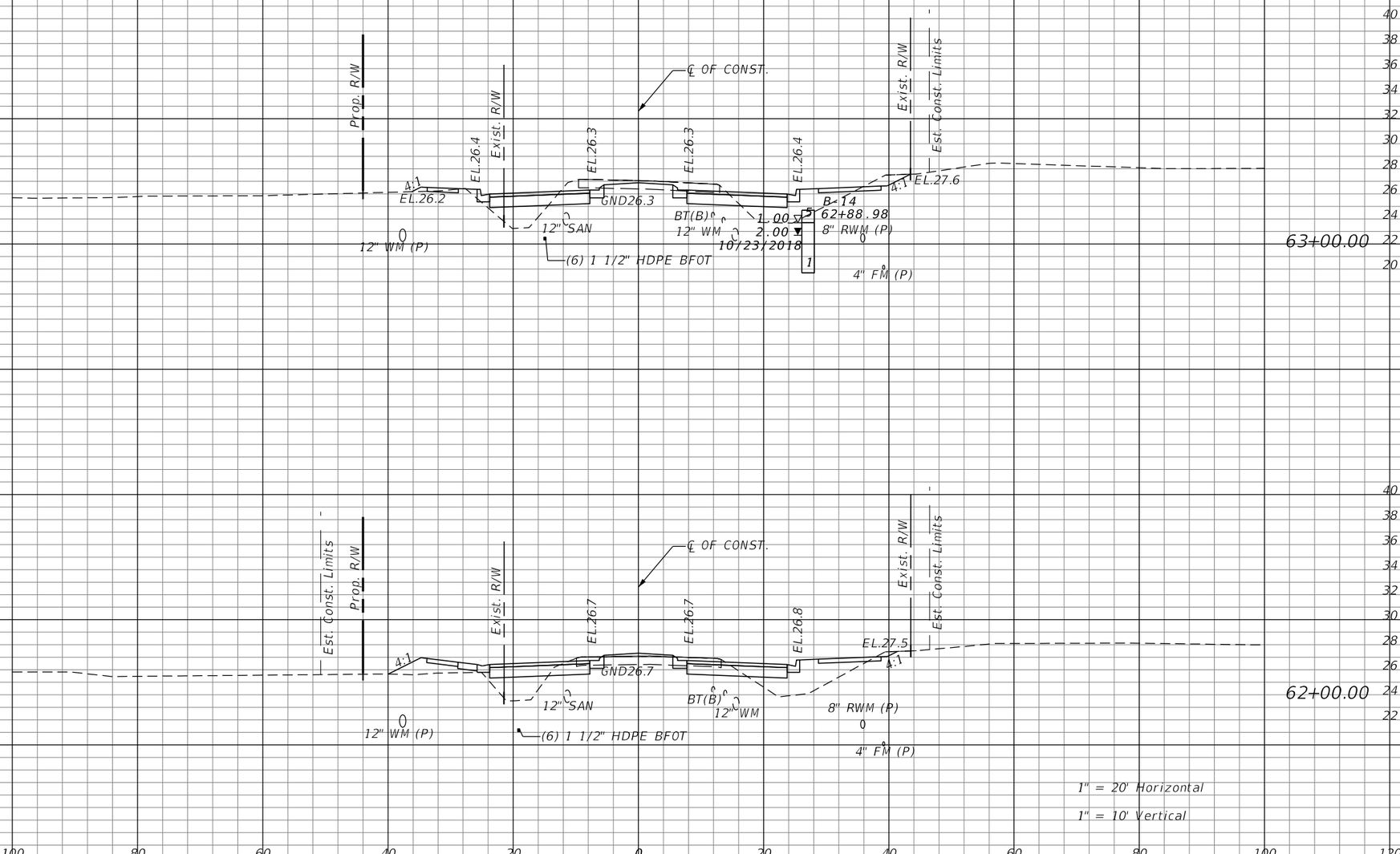
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 201



Regular Exc.		Embankment	
A	V	A	V
34.68		33.14	
29.78	119.4	49.07	152.2

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

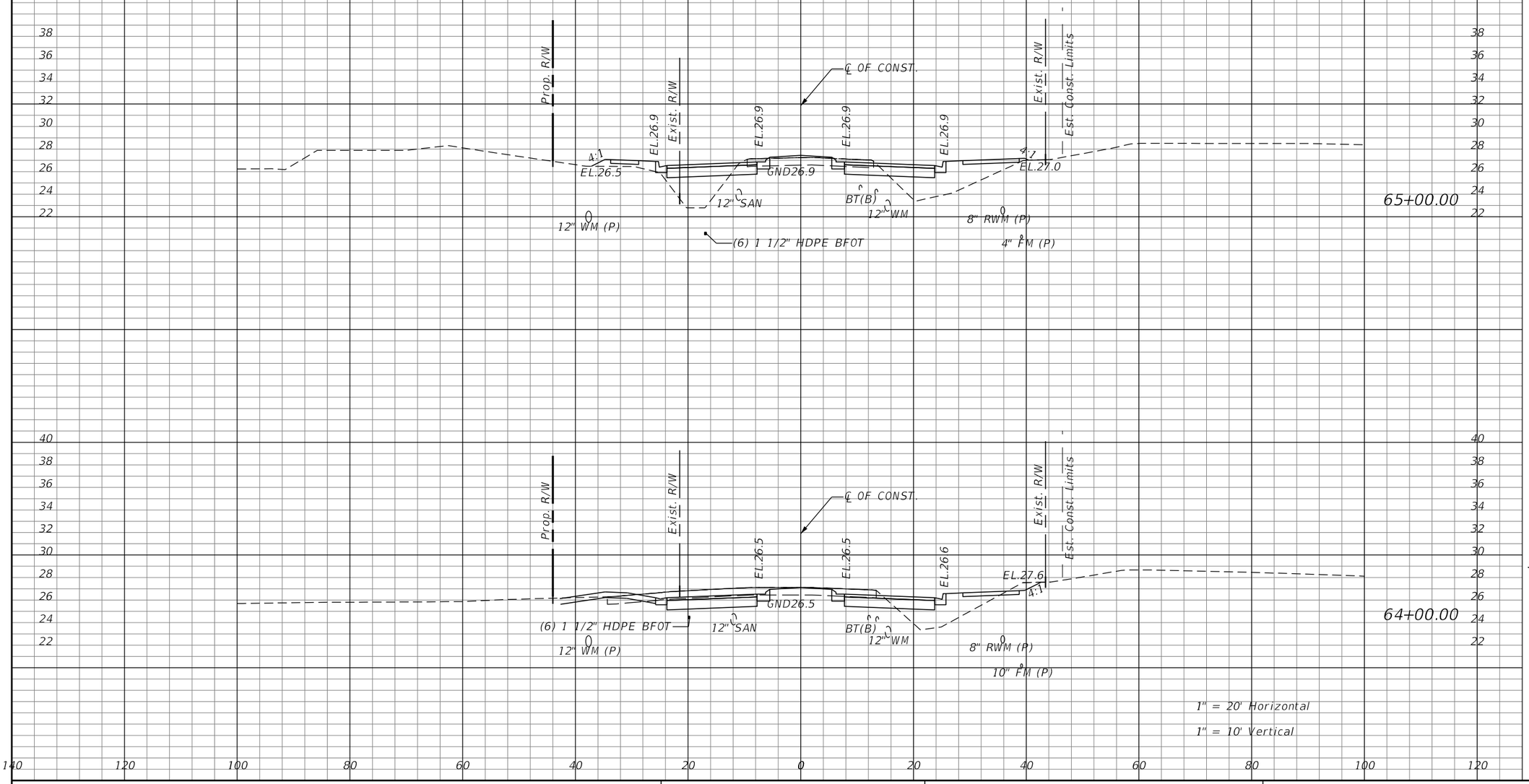
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 202



Regular Exc.		Embankment	
A	V	A	V
17.85		62.21	
	134.3		160.5
54.65		24.48	

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
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LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

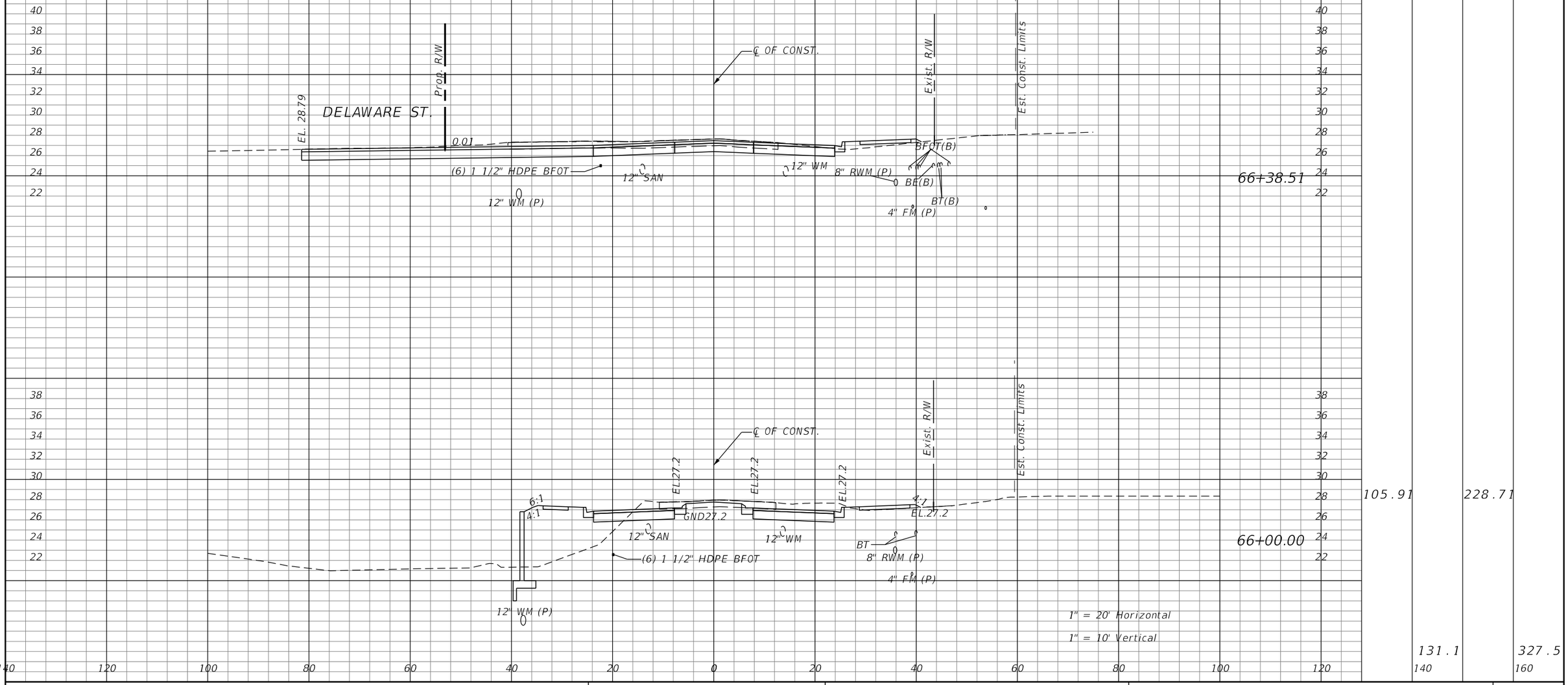
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 203

Regular Exc.		Embankment	
A	V	A	V
	215.46		528.28
	105.91		228.71
	131.1		327.5



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

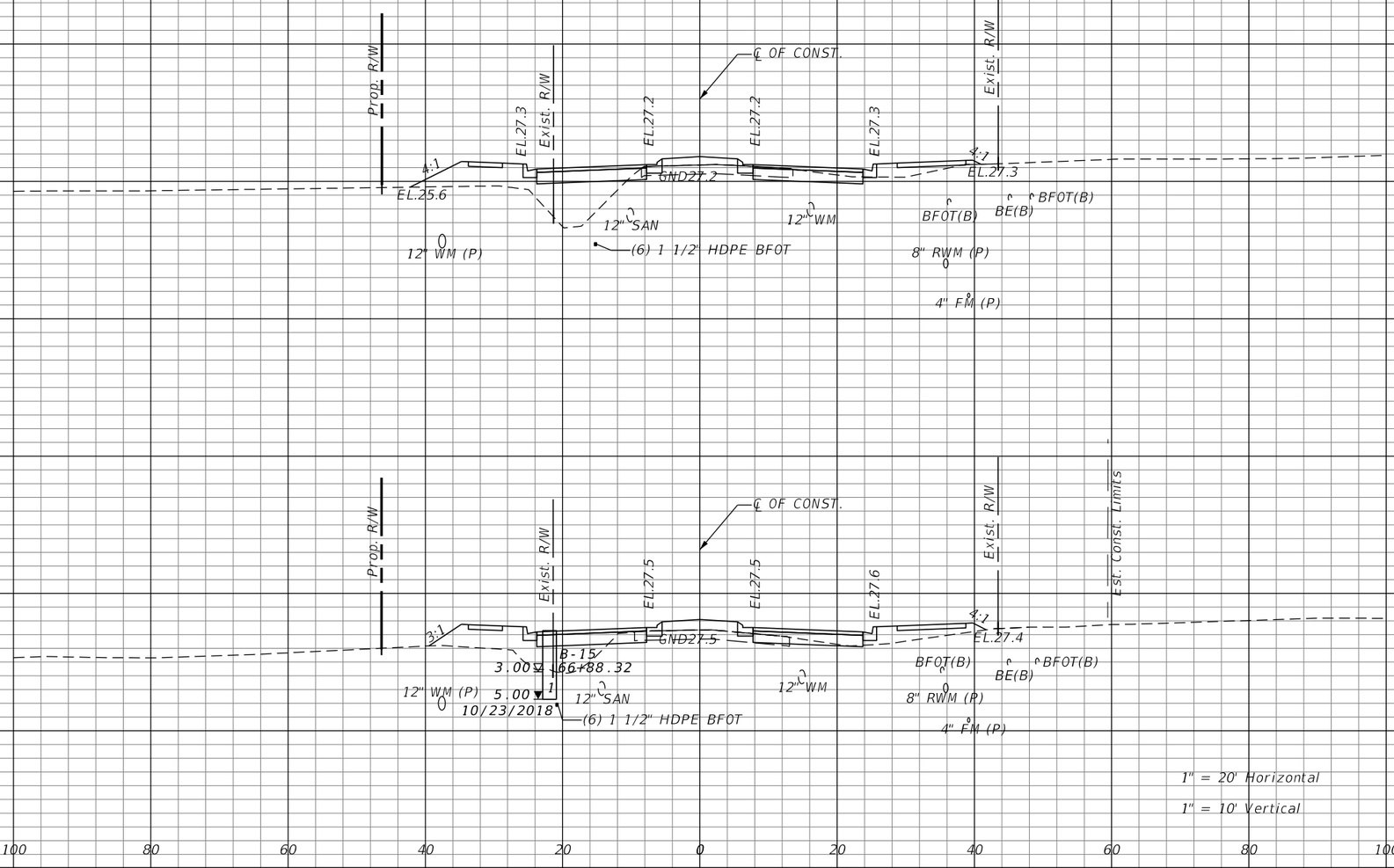
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 204



Regular Exc.		Embankment	
A	V	A	V
16.04	73.8	63.67	230.3
10.44	49.0	56.56	222.7

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

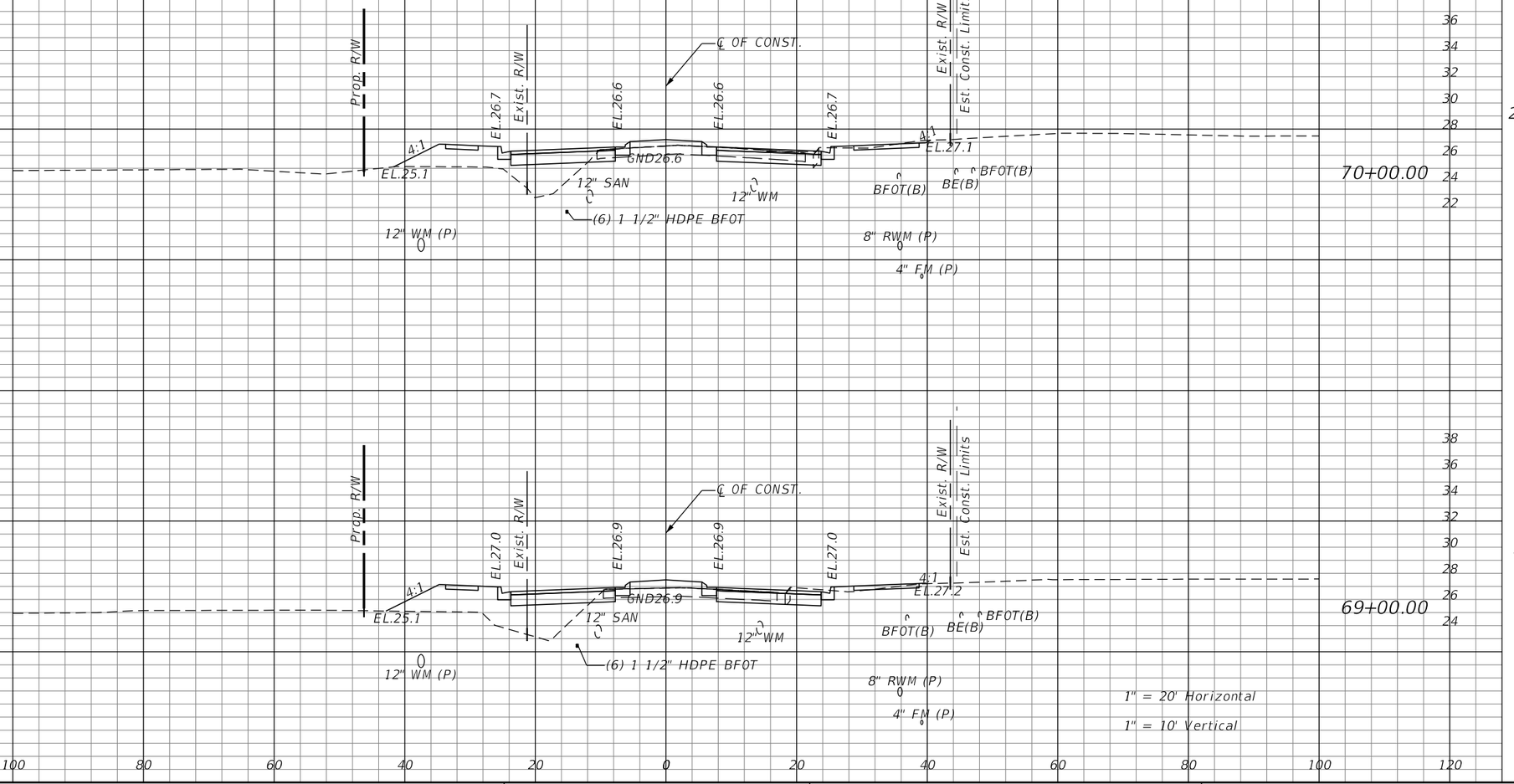
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P.E. LICENSE NUMBER 74741
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 205



Regular Exc.		Embankment	
A	V	A	V
	135.4		151.6
26.87		44.23	
	93.8		194.3
23.8		60.7	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

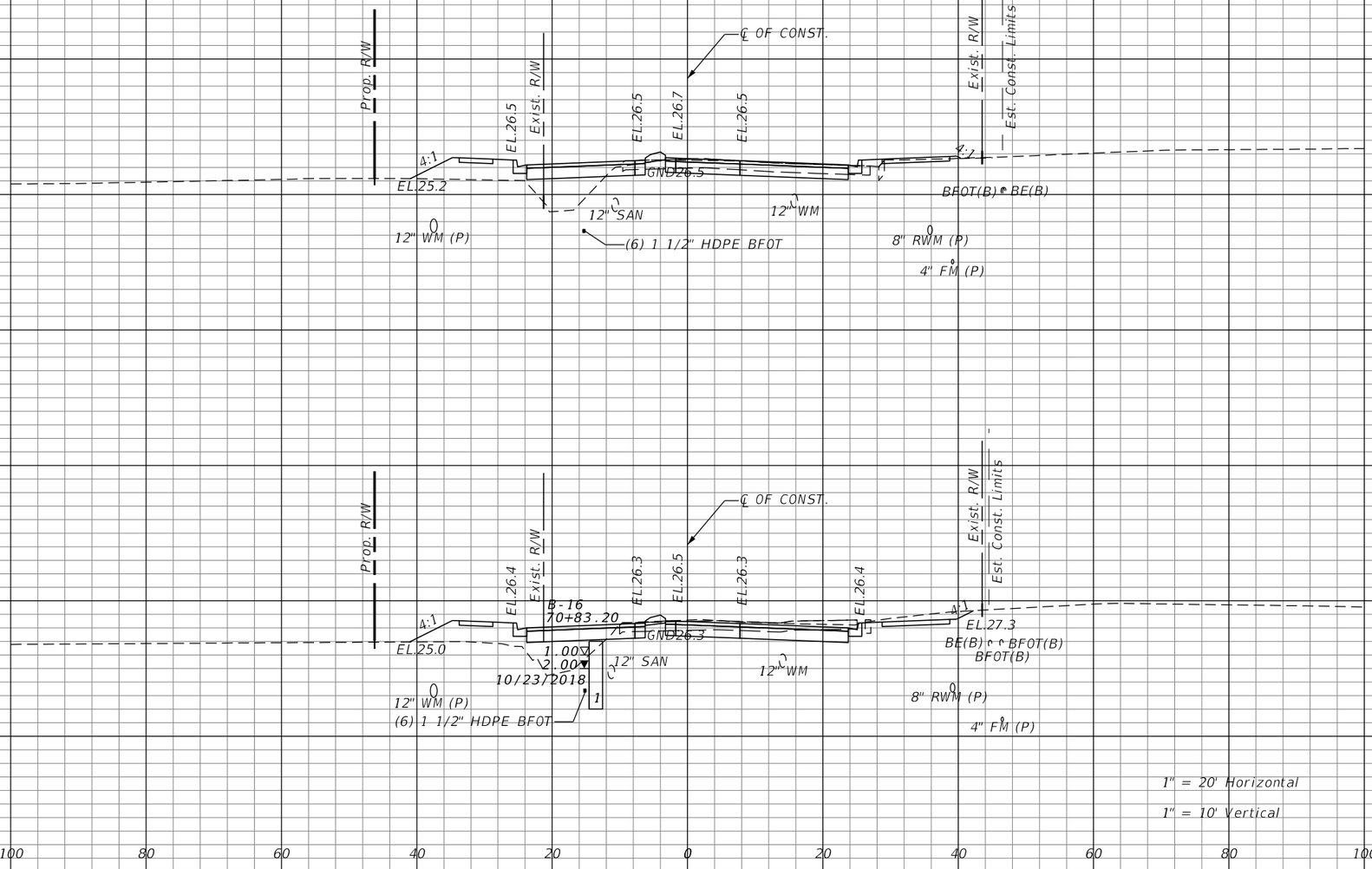
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SEMINOLE COUNTY PUBLIC WORKS

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ROADWAY CROSS-SECTIONS

SHEET NO. 206



Regular Exc.		Embankment	
A	V	A	V
36.7	149.0	38.57	162.4
46.22	153.6	37.63	141.1

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

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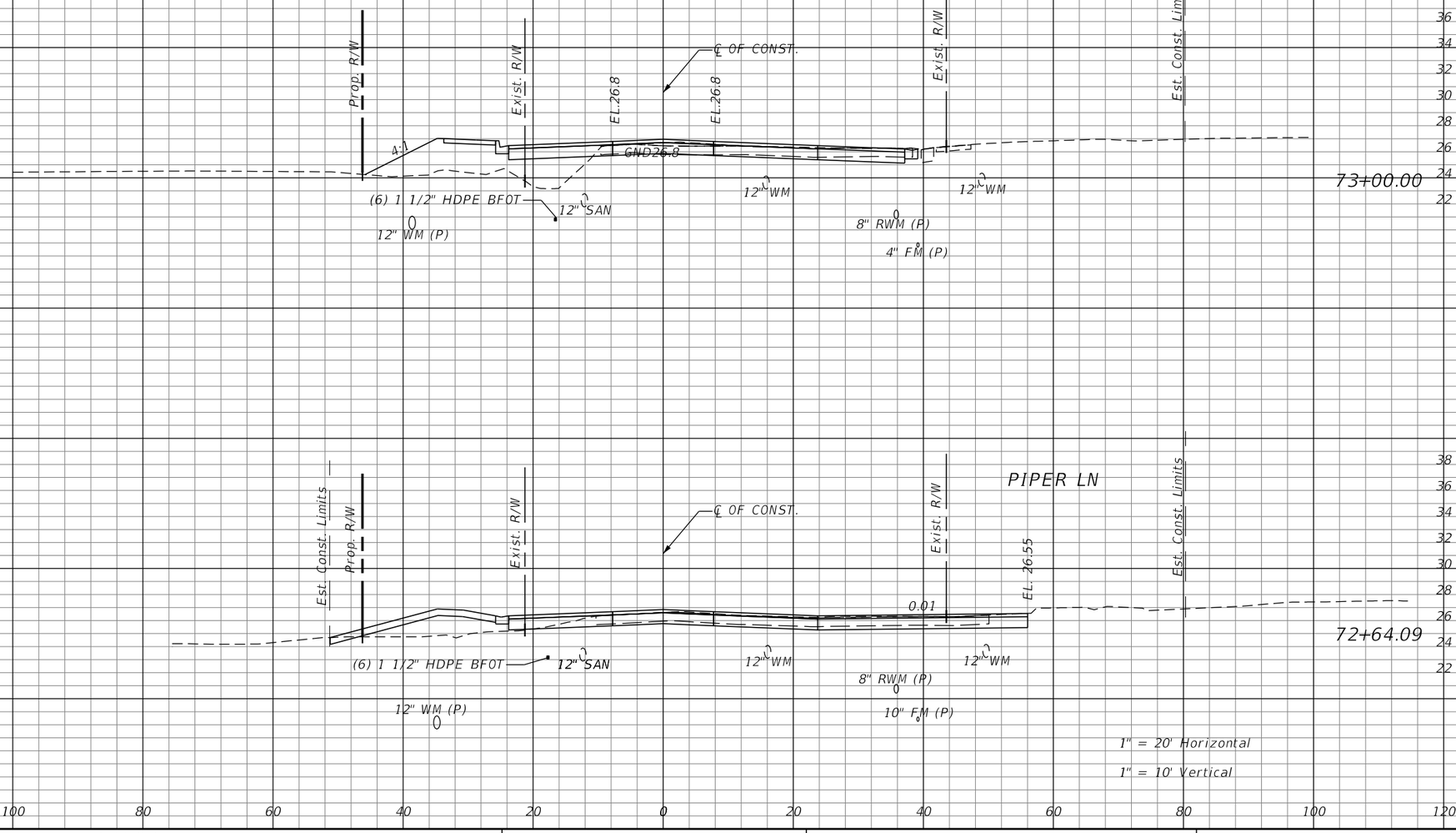
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 207

Regular Exc.		Embankment	
A	V	A	V
93.01		84.61	



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

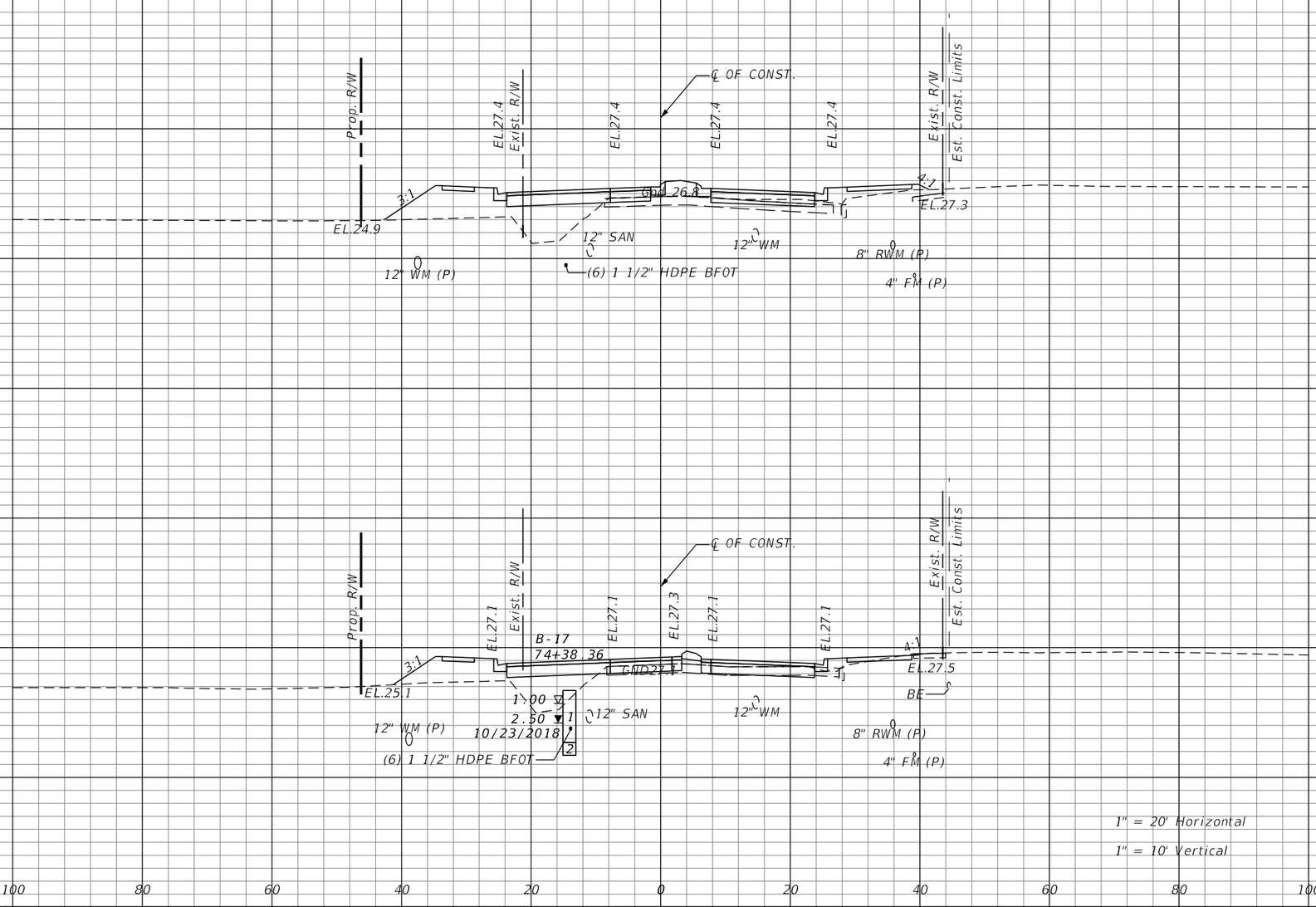
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 208



Regular Exc.		Embankment	
A	V	A	V
8.98	51.0	73.93	207.9
20.26	54.2	50.48	230.4

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

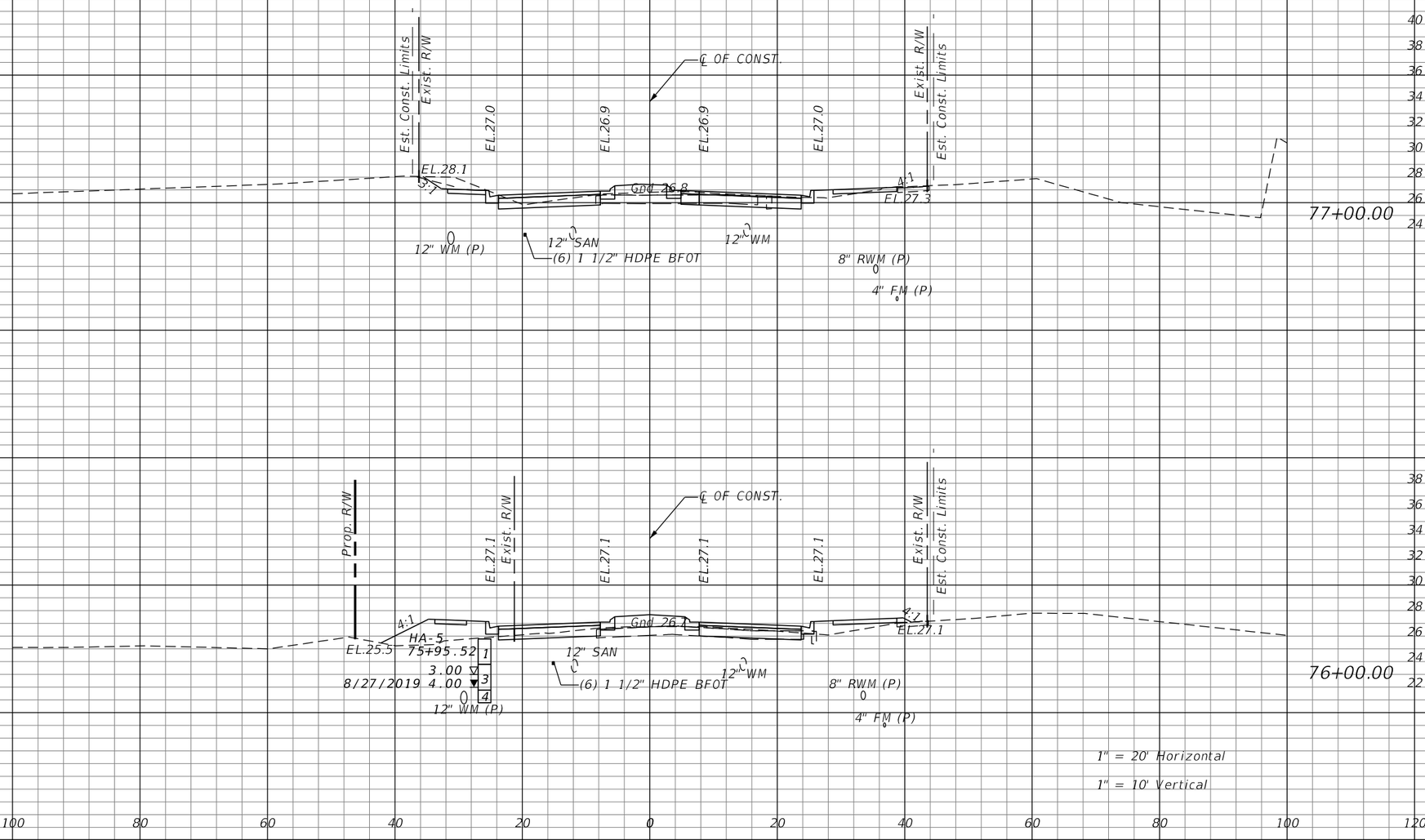
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 209



Regular Exc.		Embankment	
A	V	A	V
44.42	194.9	7.24	20.8
18.57	116.7	38.36	84.4

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

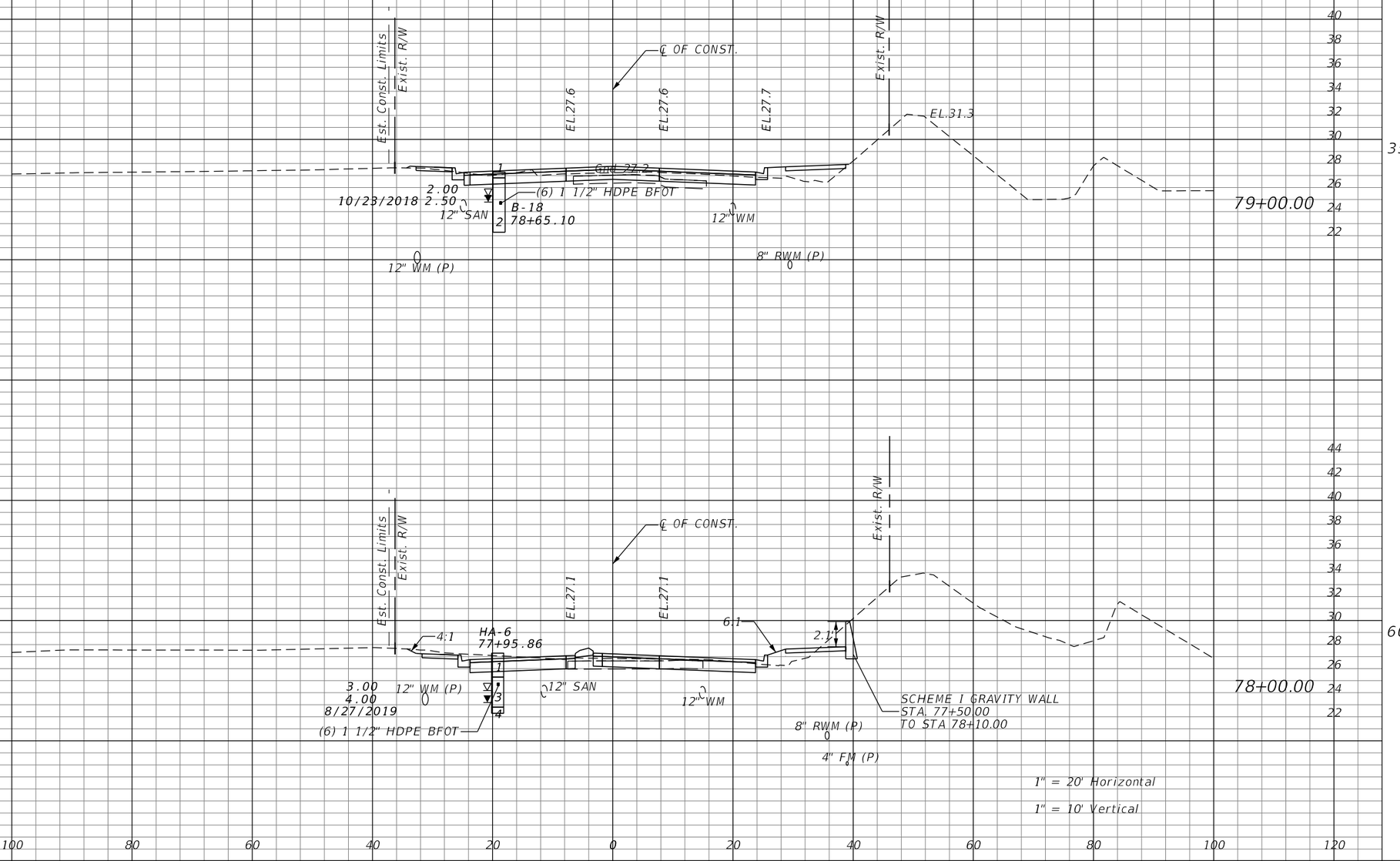
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 210



Regular Exc.		Embankment	
A	V	A	V
	70.0		230.6
35.02		10.33	
	177.5		26.5
60.83		3.99	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

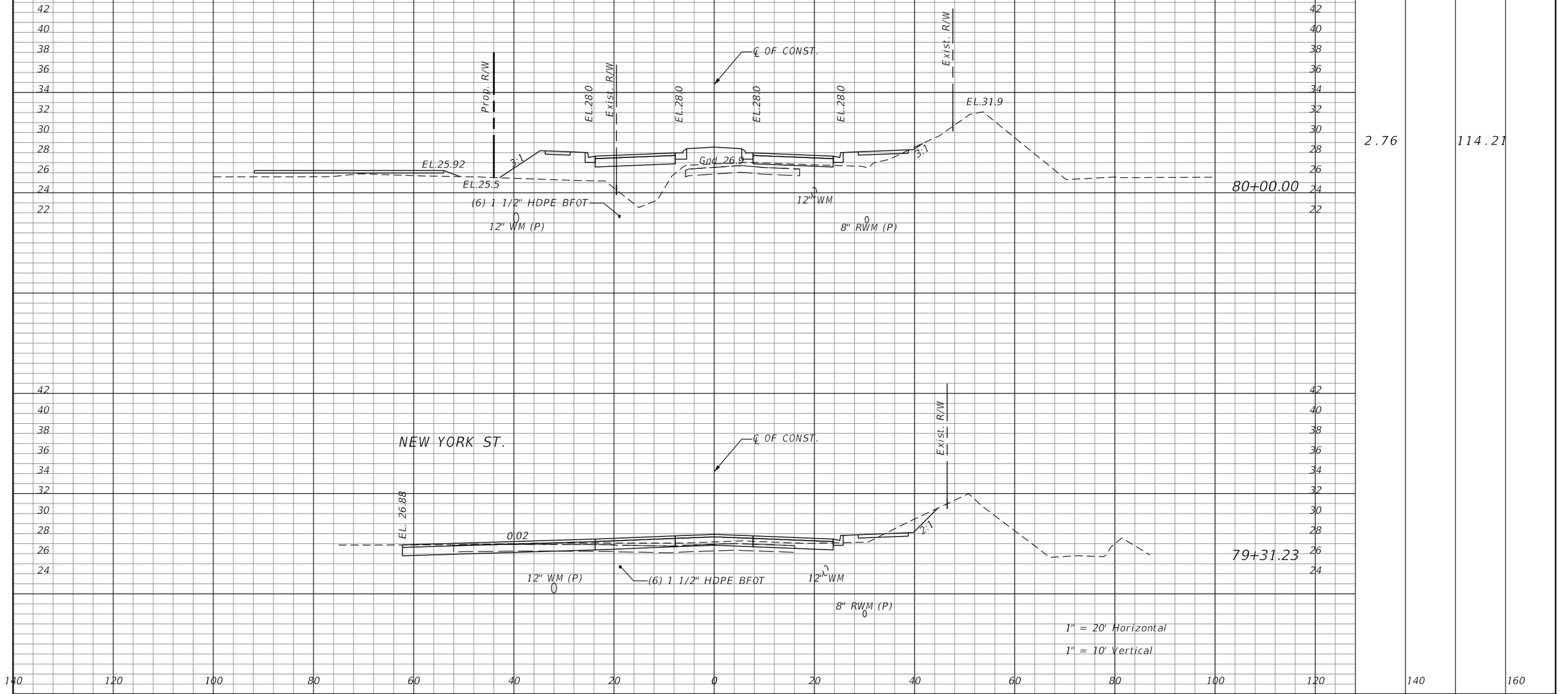
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 211

Regular Exc.		Embankment	
A	V	A	V
2.76		114.21	



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

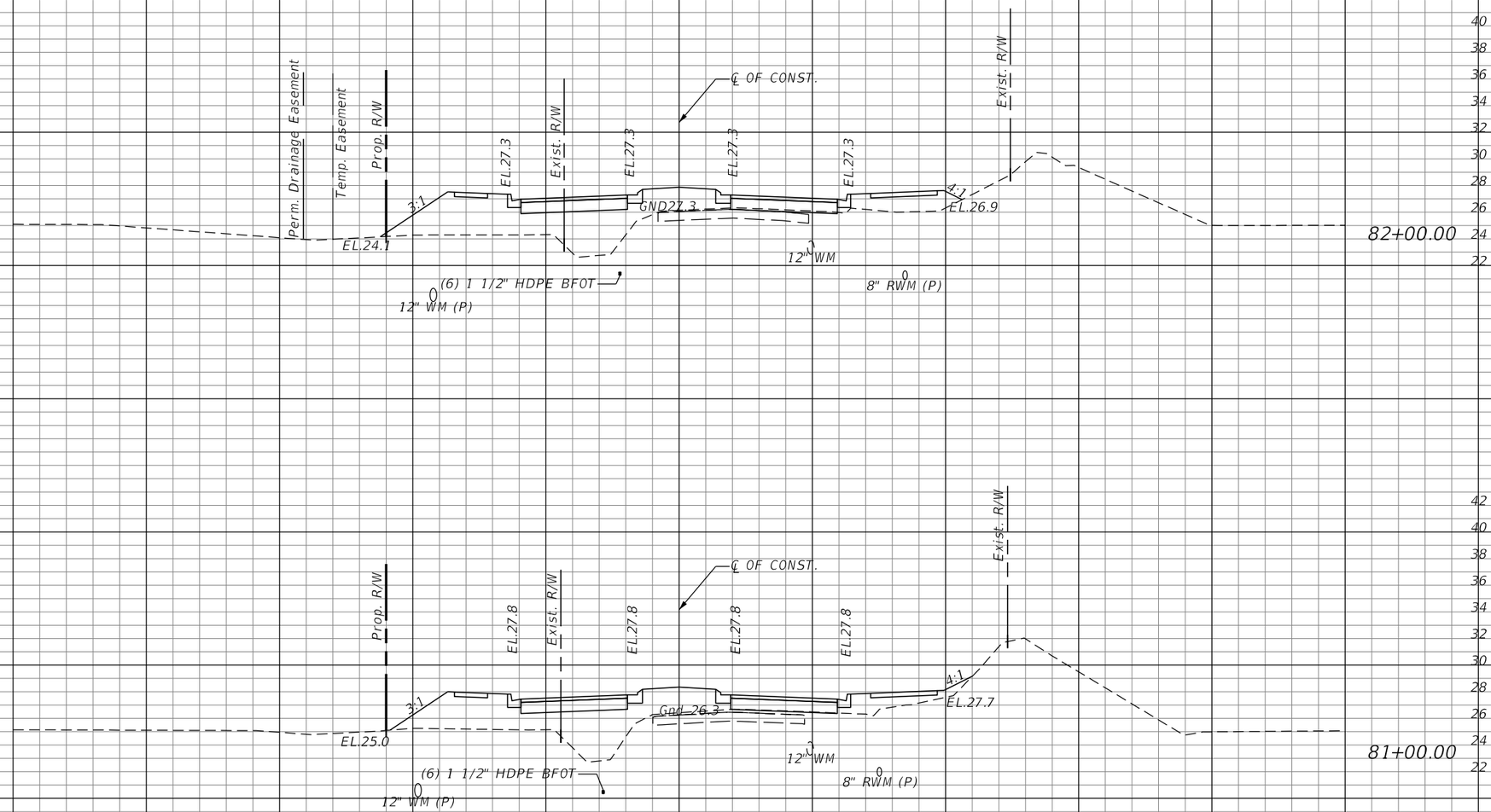
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 212



Regular Exc.		Embankment	
A	V	A	V
2.05	20.1	129.26	426.9
0.54	4.8	117.92	457.7

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

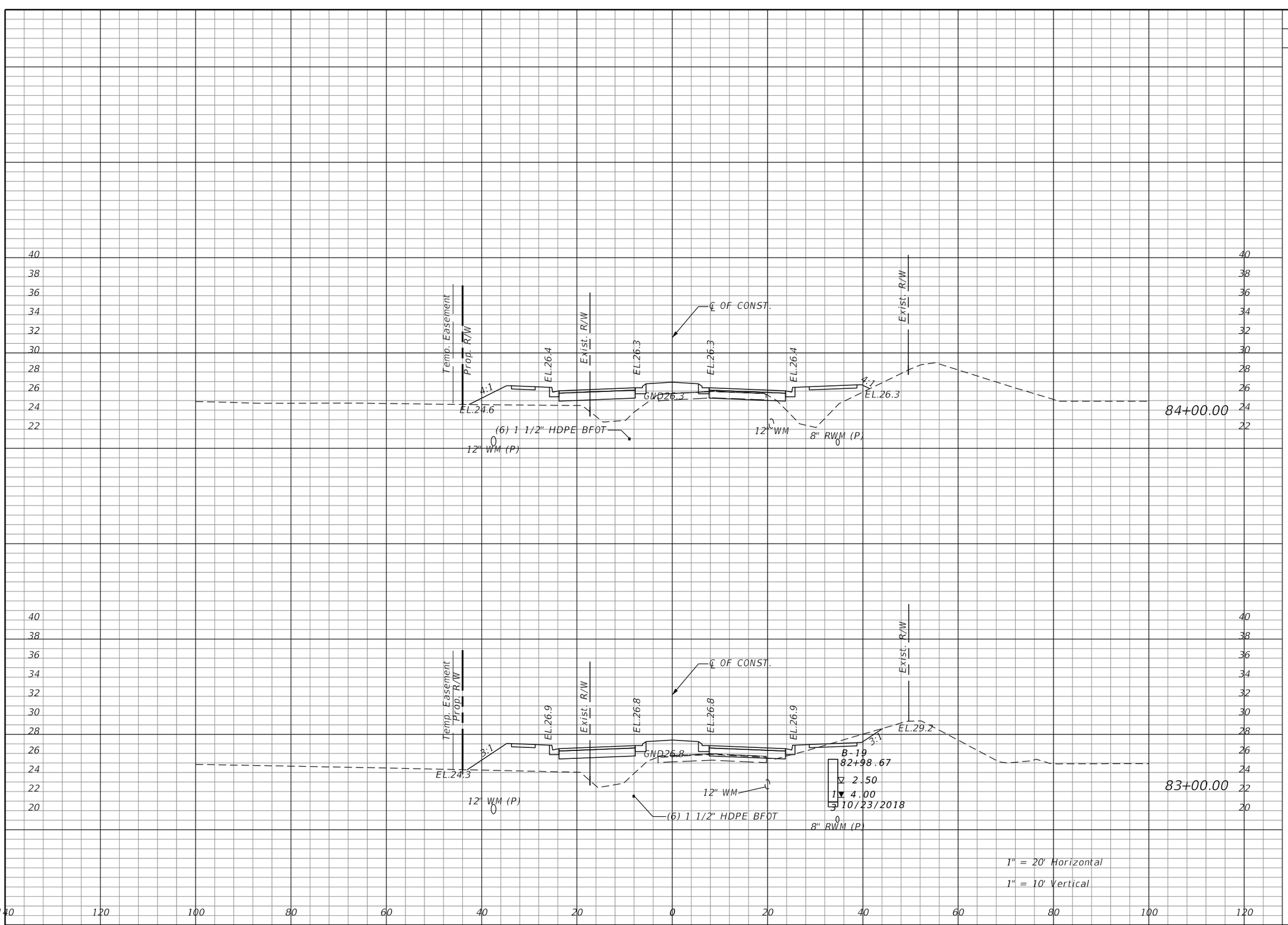
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 213



Regular Exc.		Embankment	
A	V	A	V
9.74	59.6	106.43	308.1
8.82	34.4	101.25	384.6

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

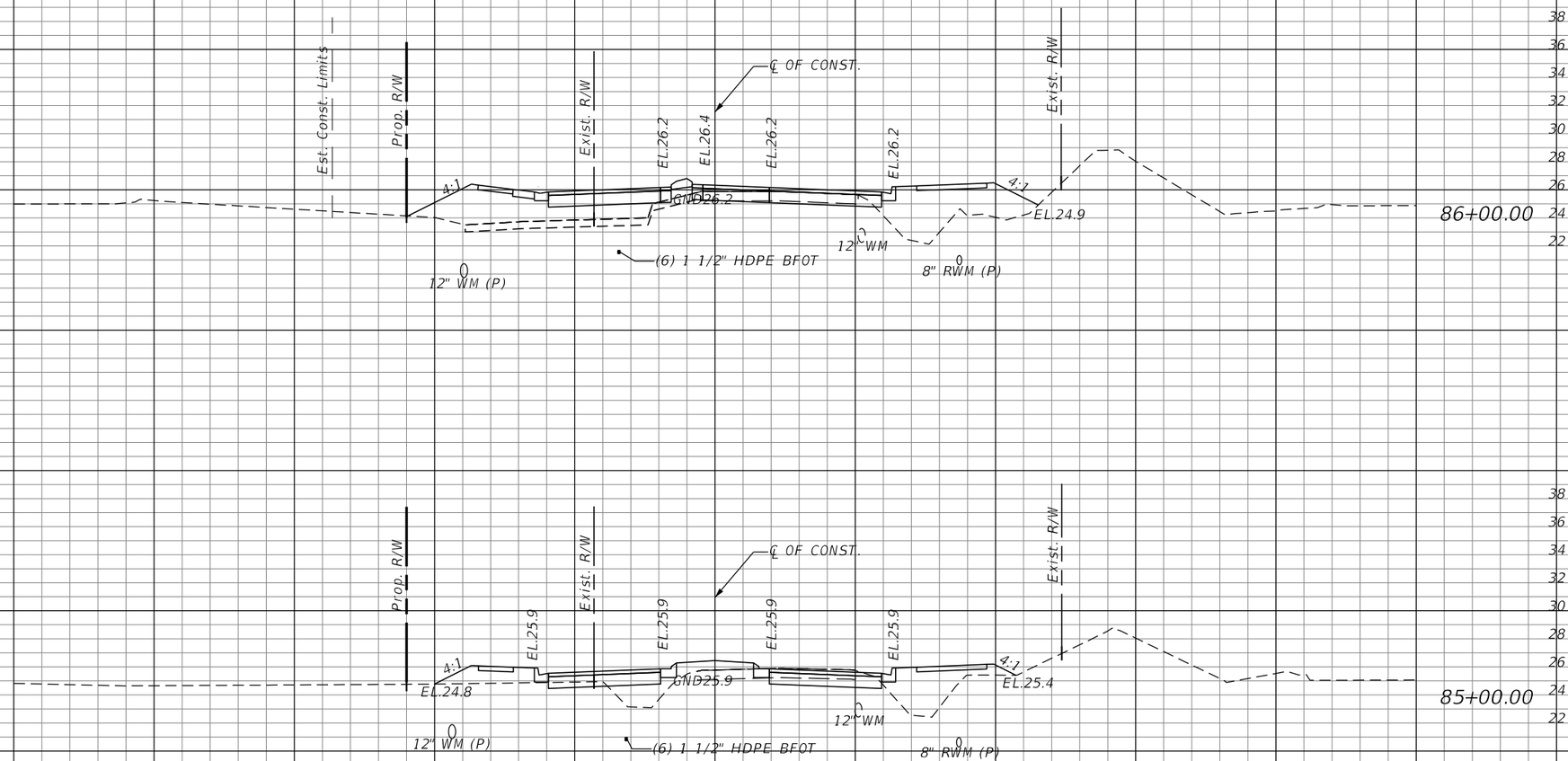
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 214



Regular Exc.		Embankment	
A	V	A	V
	59.7		286.4
19.15		102.65	
	77.0		301.1
22.42		59.95	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
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JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

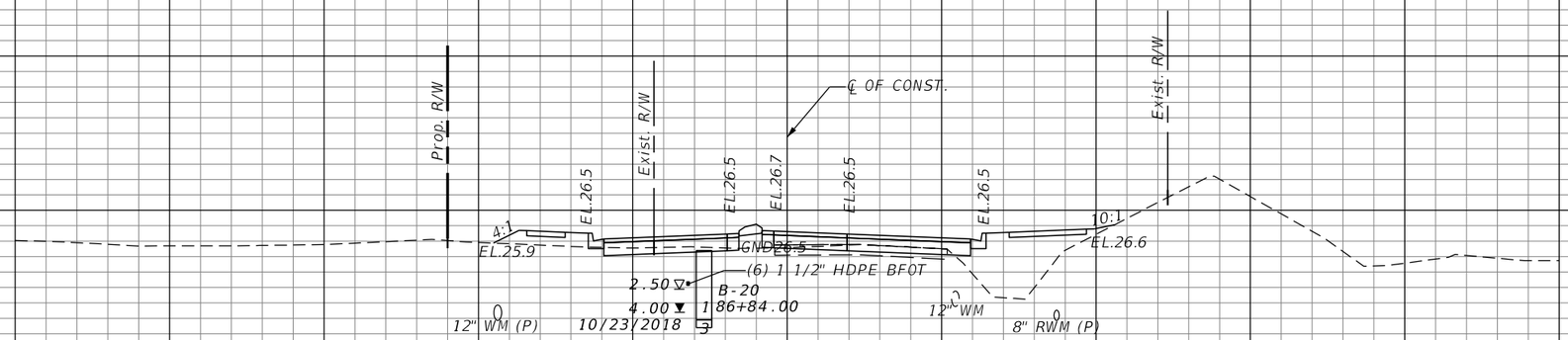
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 215

Regular Exc.		Embankment	
A	V	A	V
	144.1		171.8
	13.08		51.98





1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

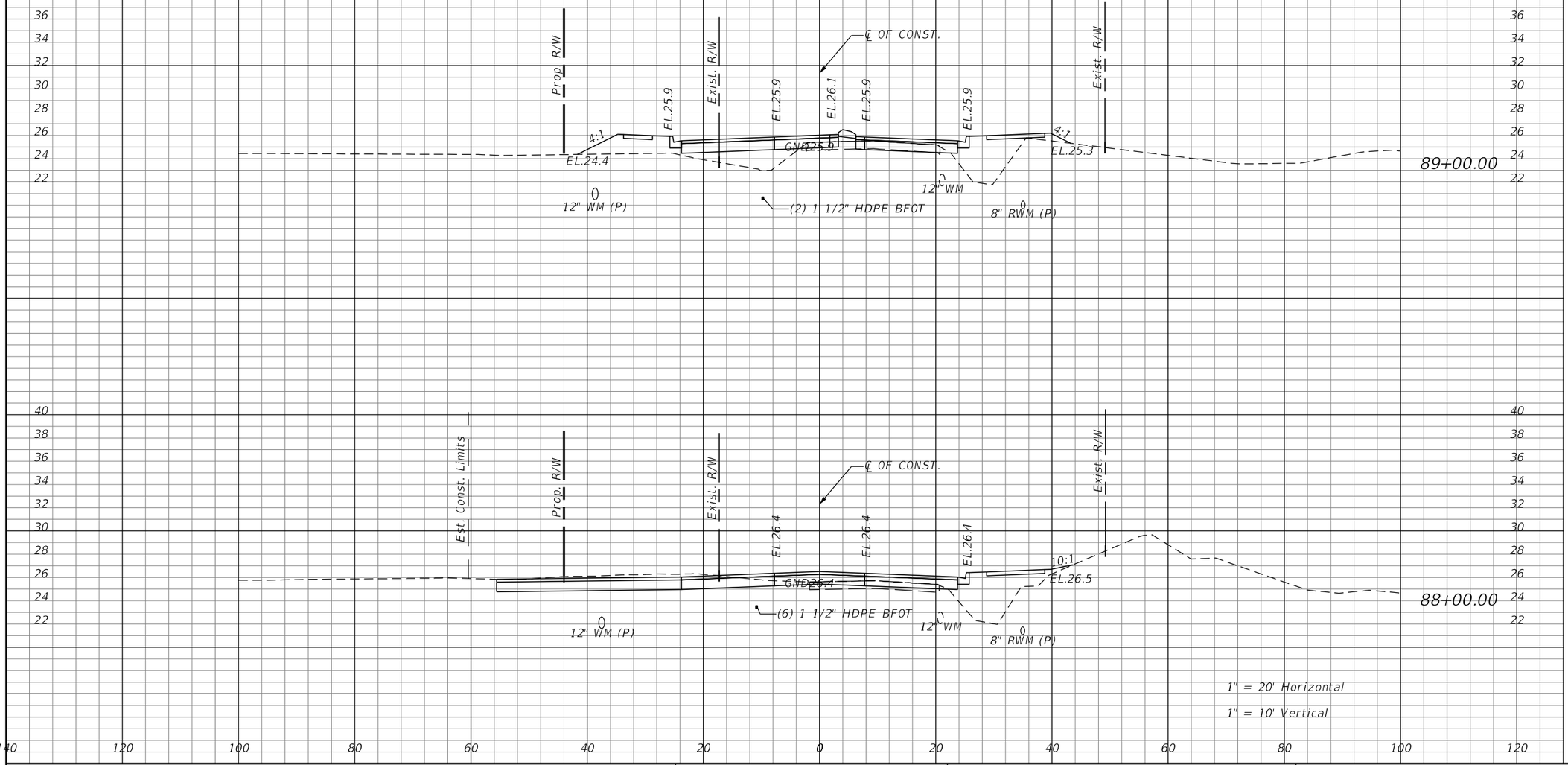
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
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LAKE MARY, FL 32746
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 216



Regular Exc.		Embankment	
A	V	A	V
	63.8		259.4
13.56		74.3	
	144.9		213.1
64.71		40.79	
	140		160

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

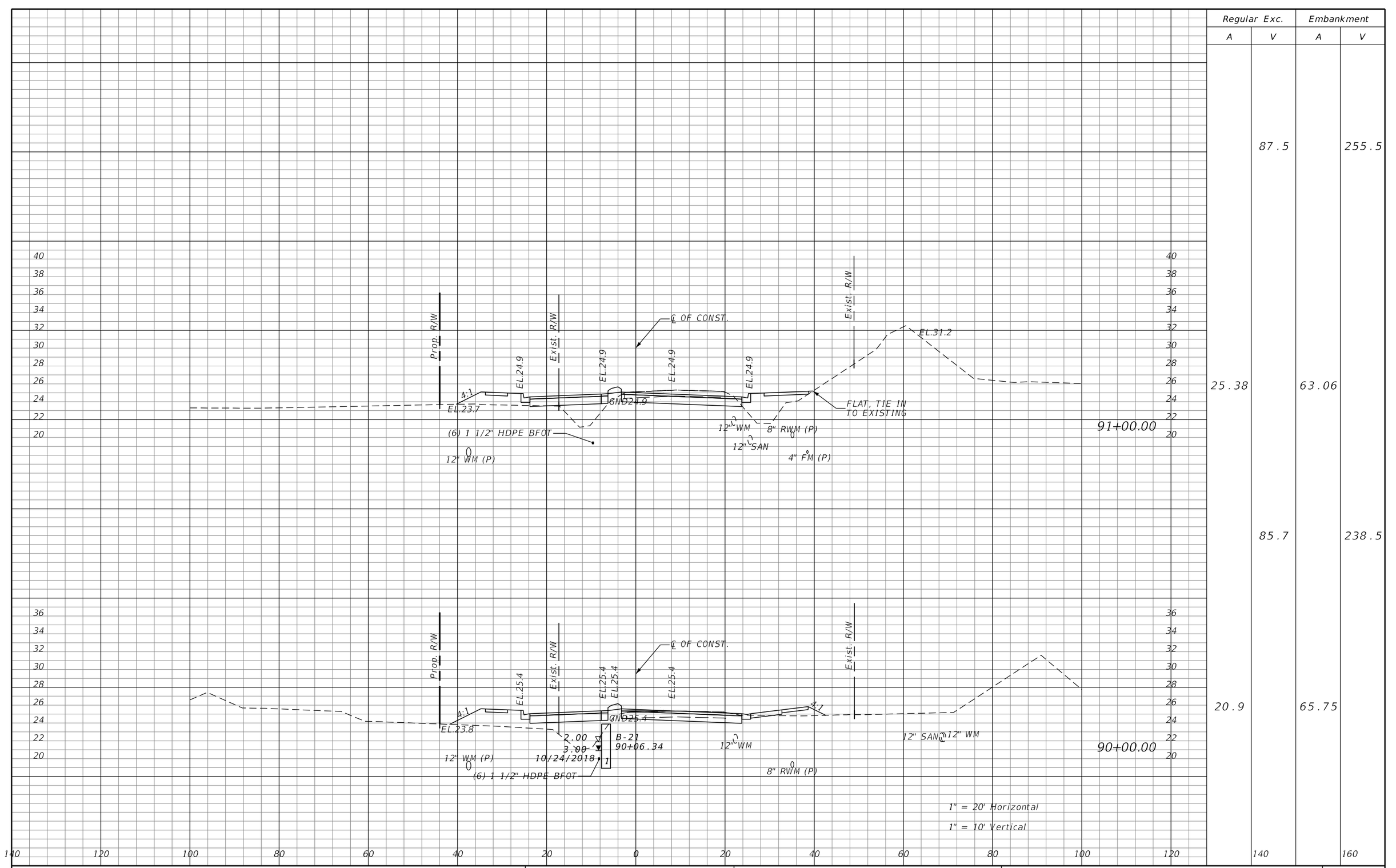
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P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 217



Regular Exc.		Embankment	
A	V	A	V
25.38	87.5	63.06	255.5
20.9	85.7	65.75	238.5

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

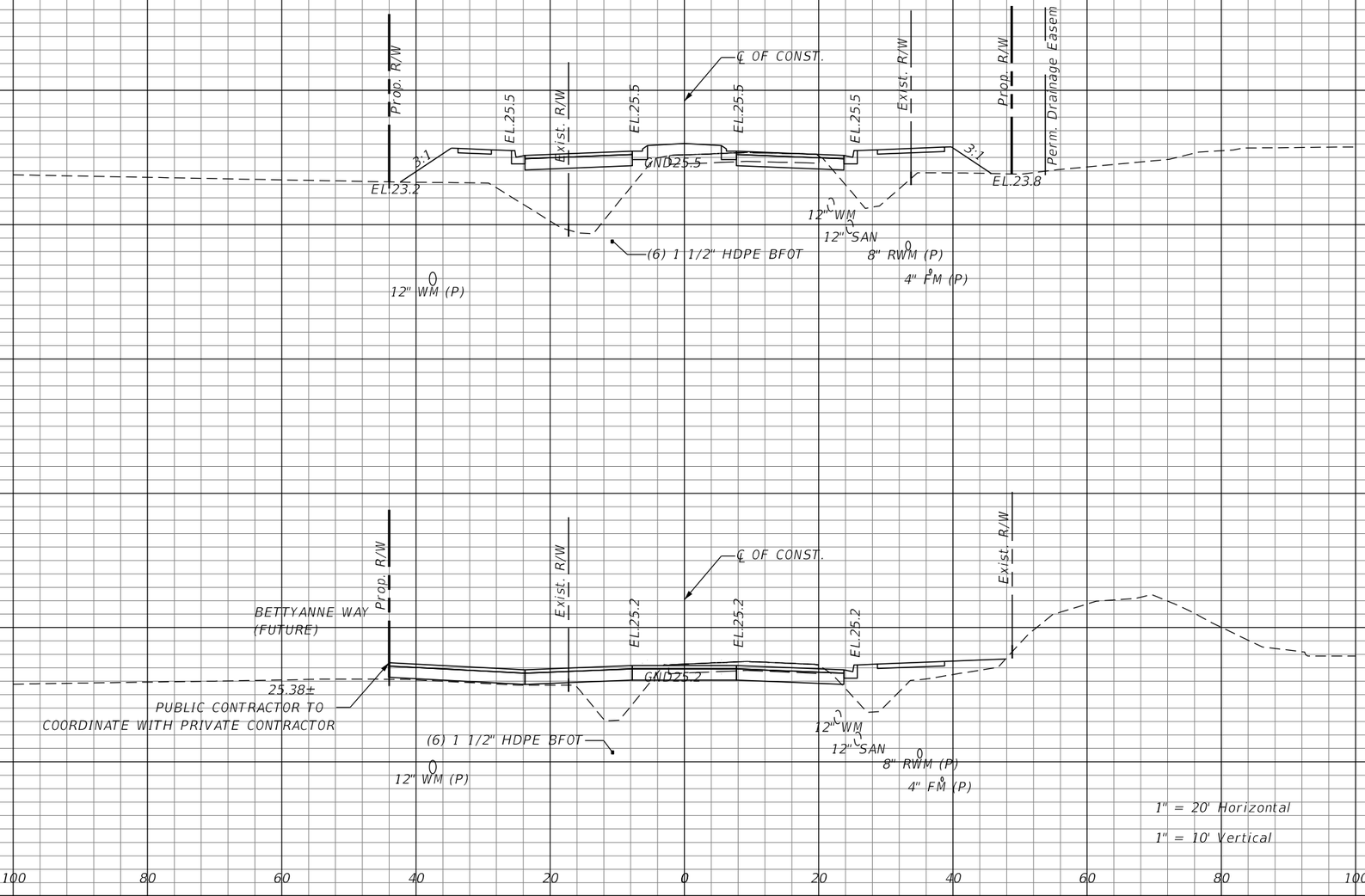
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P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
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LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 218



Regular Exc.		Embankment	
A	V	A	V
15.1	53.0	157.76	552.7
21.86	68.4	74.91	430.9

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

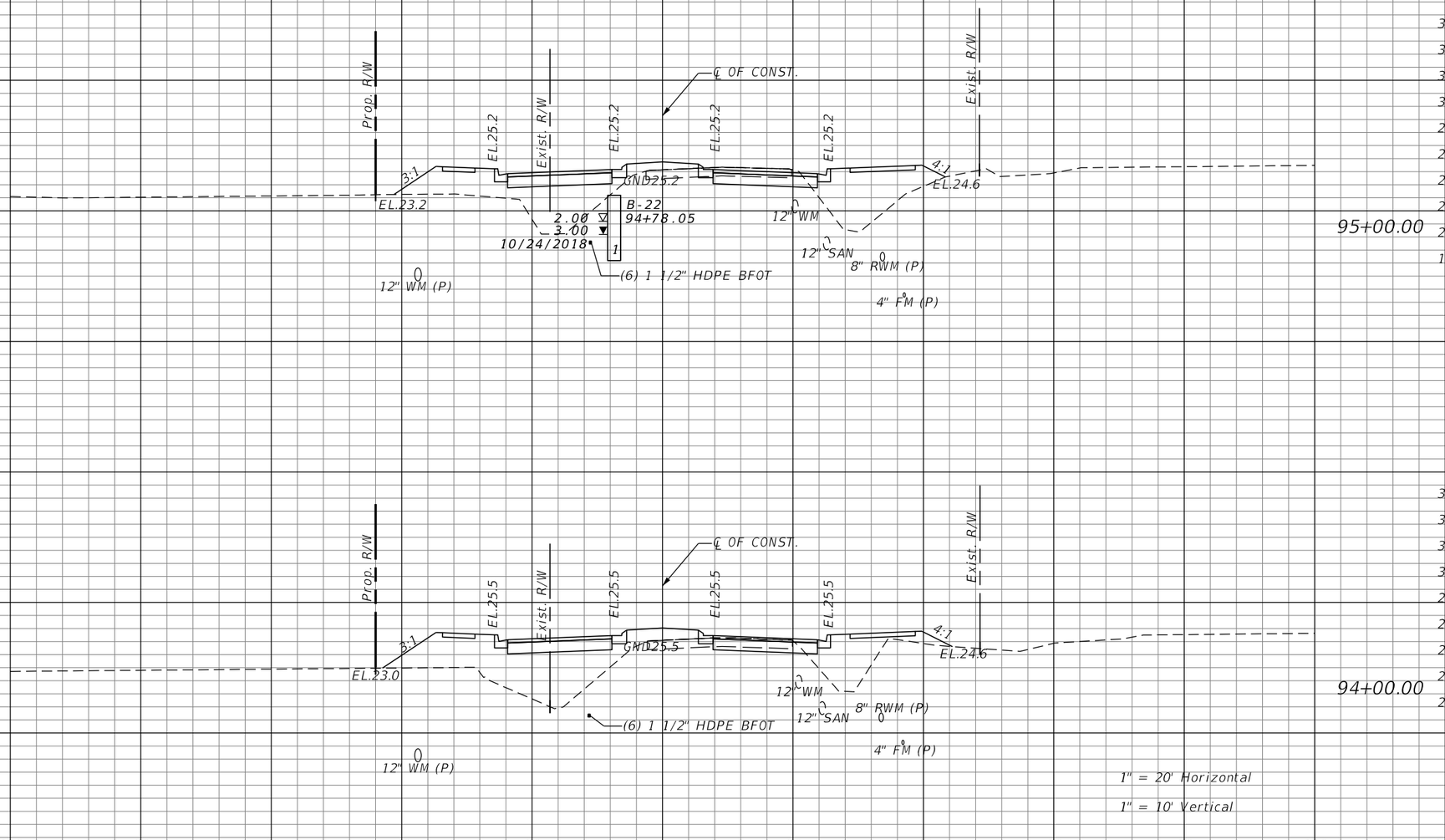
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P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
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LAKE MARY, FL 32746
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 219



Regular Exc.		Embankment	
A	V	A	V
	140.9		334.7
20.08		126.48	
	62.3		494.8
13.54		140.69	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

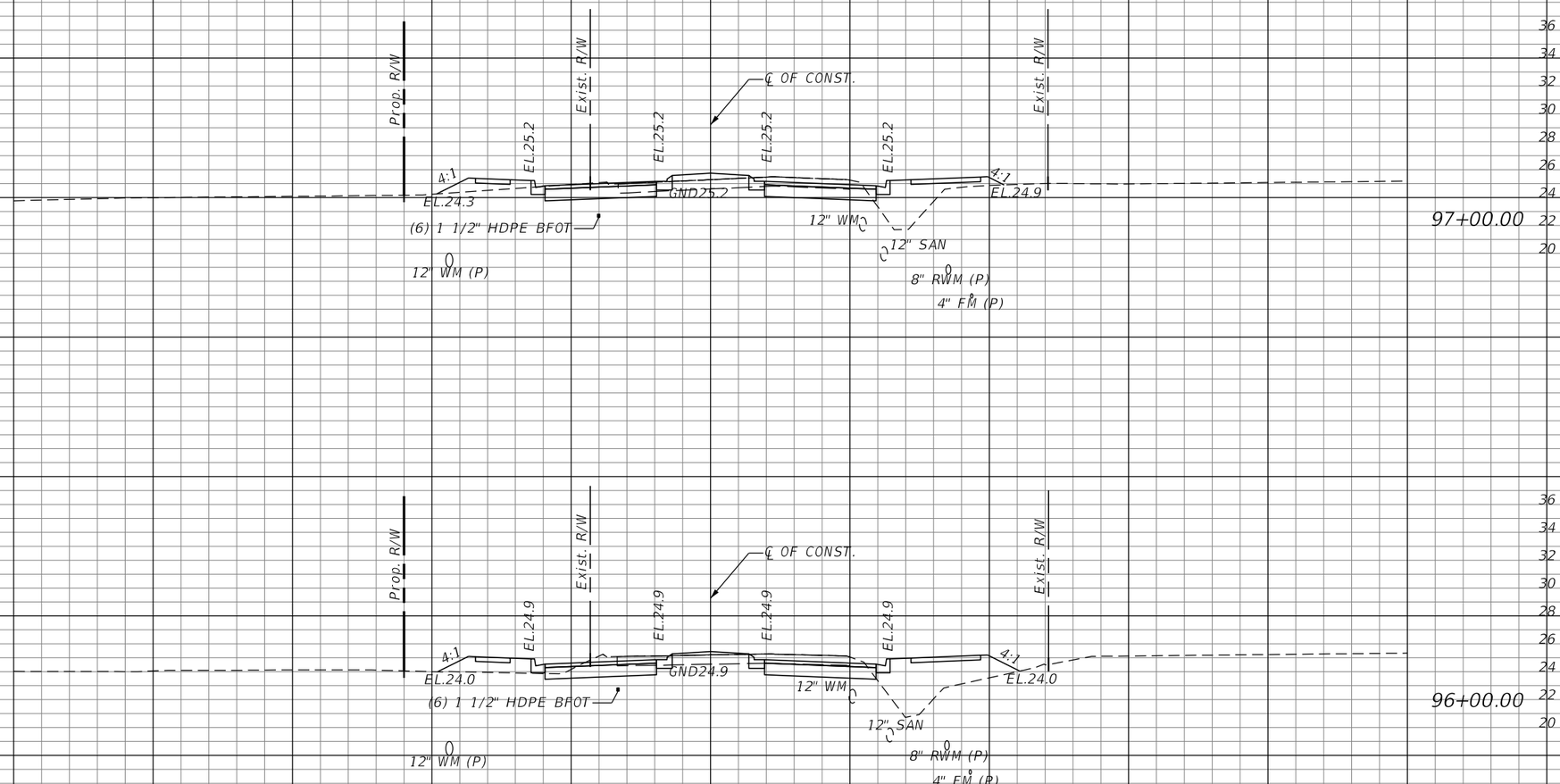
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 220



Regular Exc.		Embankment	
A	V	A	V
42.14		36.31	
	181.8		167.7
56.03		54.24	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

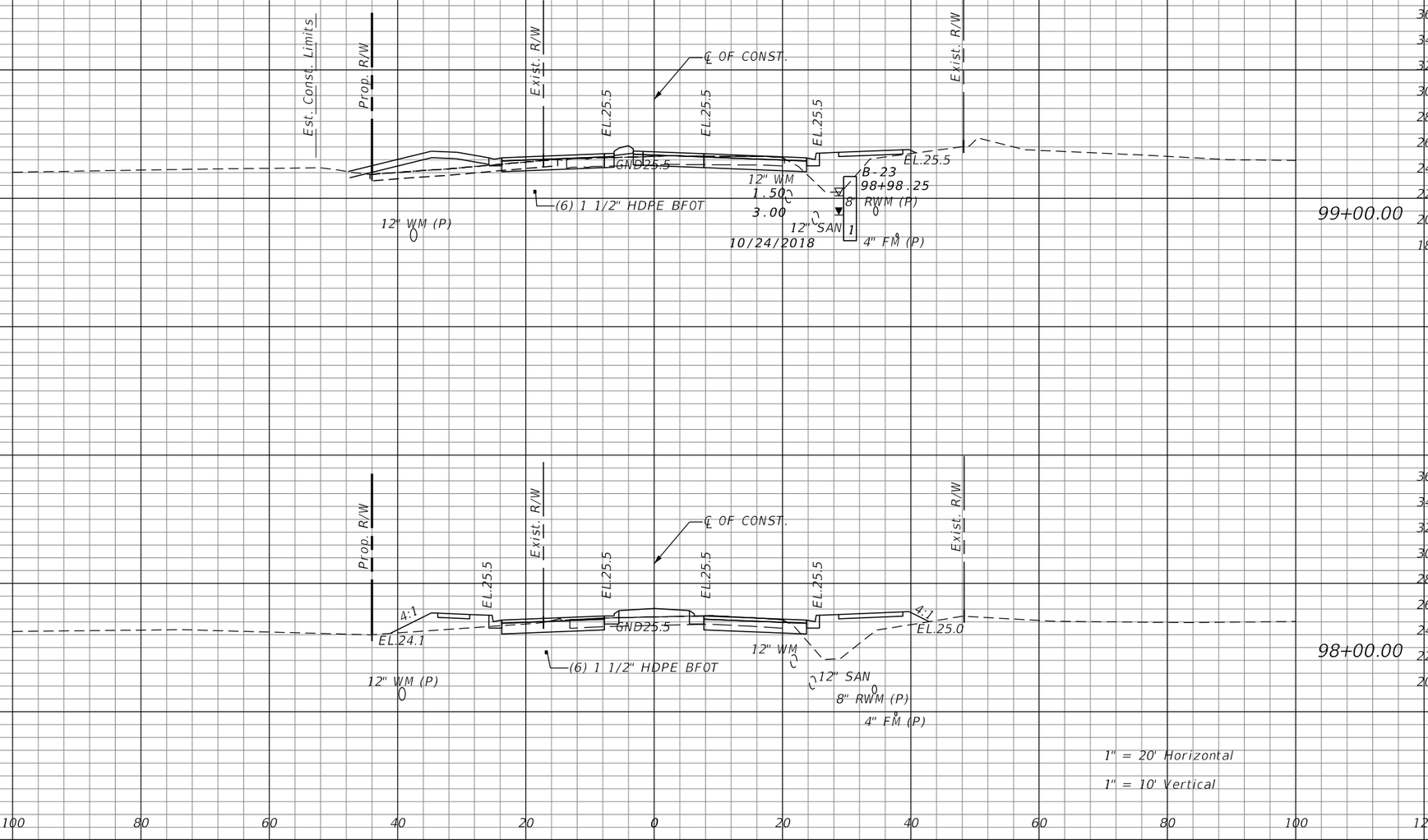
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
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LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 221



Regular Exc.		Embankment	
A	V	A	V
	161.6		121.0
36.41		31.92	
	124.3		154.4
30.69		51.47	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

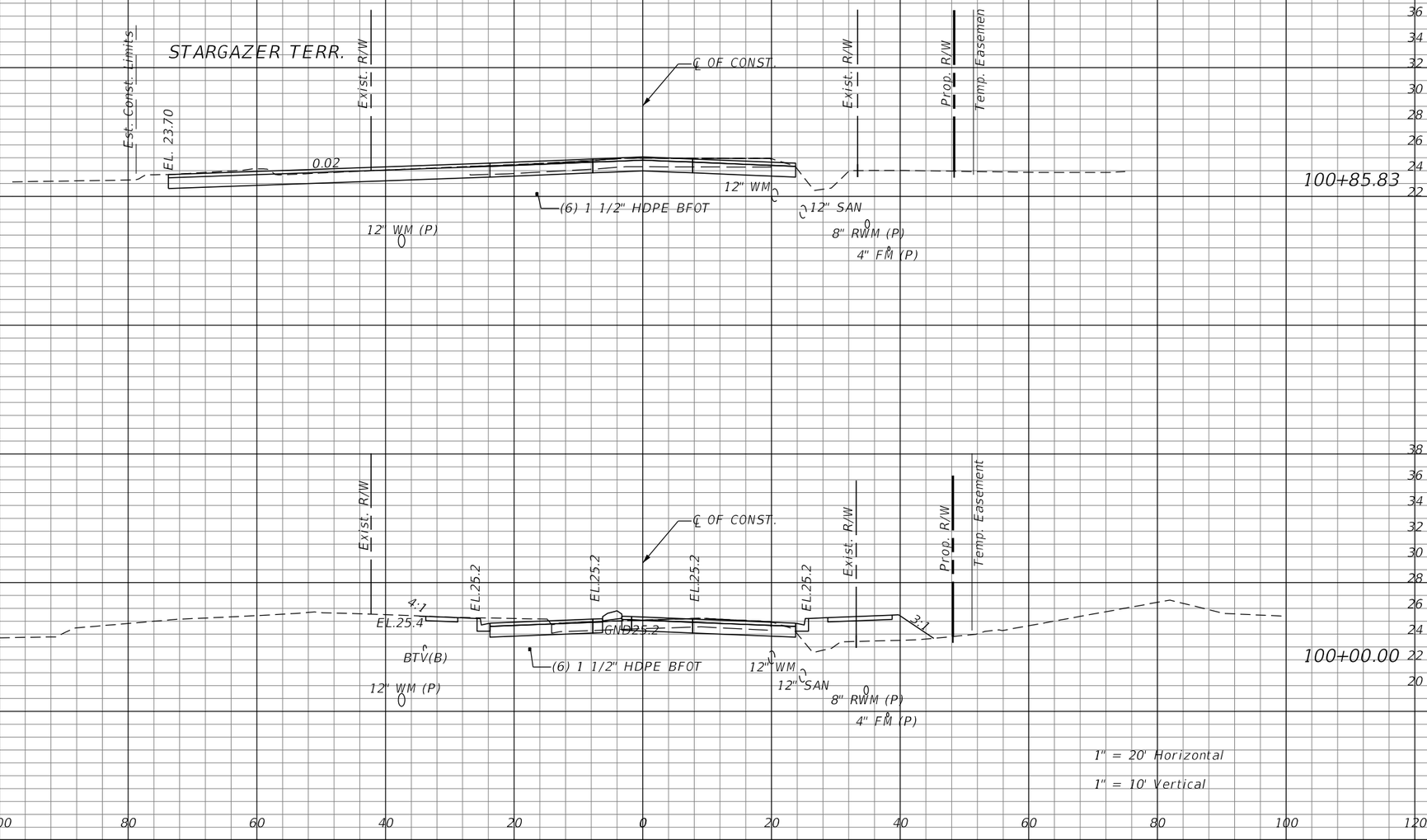
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 222

Regular Exc.		Embankment	
A	V	A	V
50.87		33.42	



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

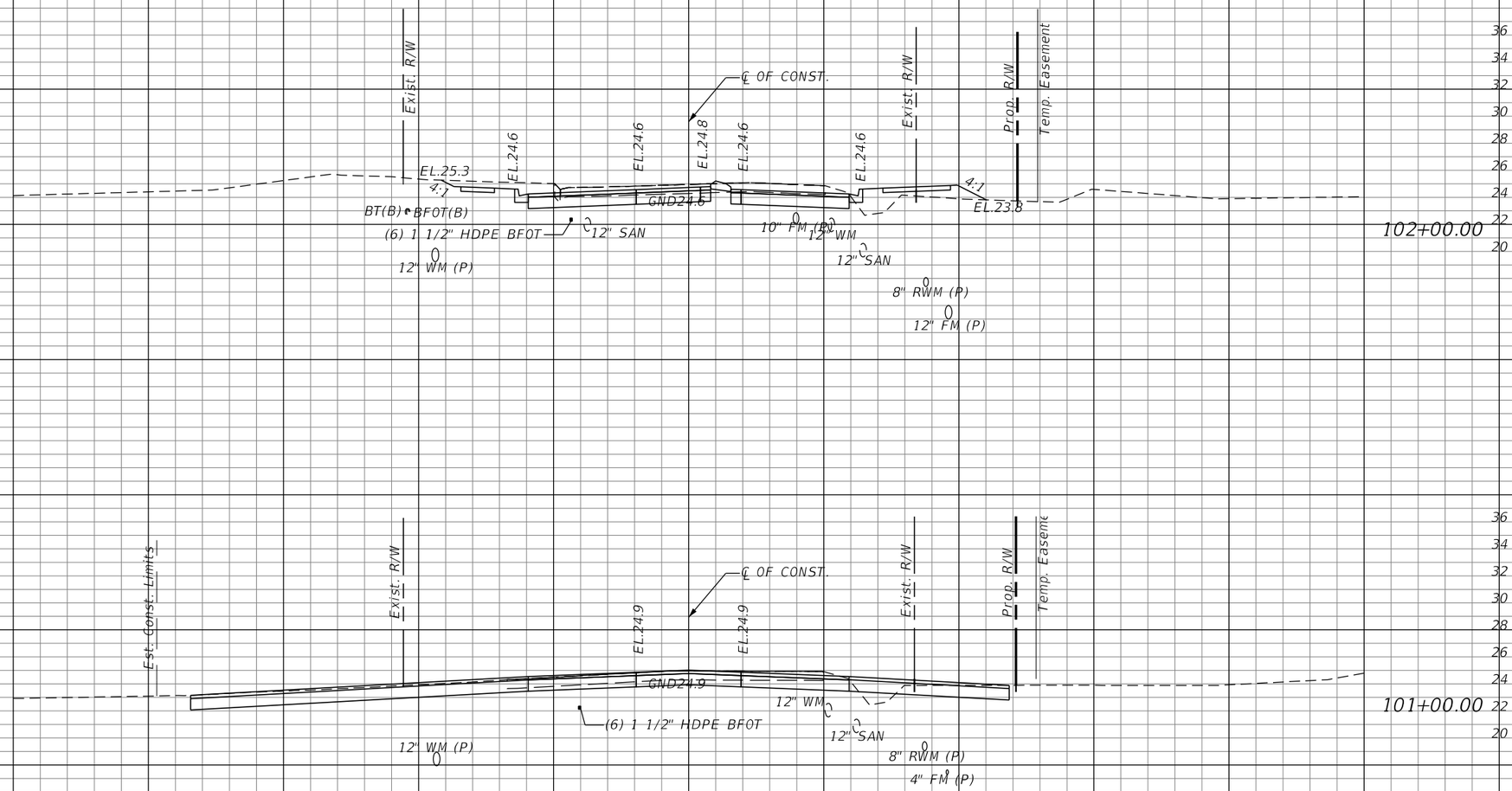
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 223



Regular Exc.		Embankment	
A	V	A	V
	218.7		79.8
77.03		14.74	
	356.6		33.2
115.52		3.21	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

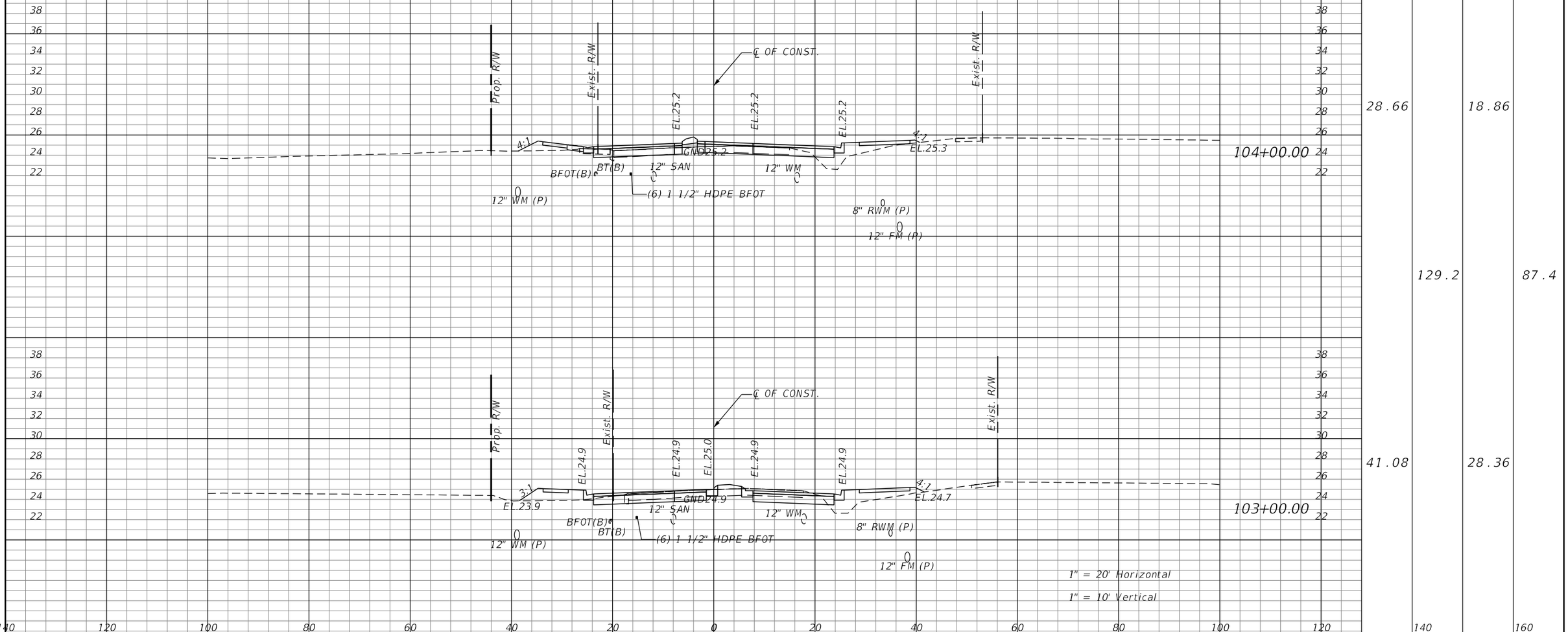
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 224



Regular Exc.		Embankment	
A	V	A	V
	81.1		160.6
28.66		18.86	
	129.2		87.4
41.08		28.36	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

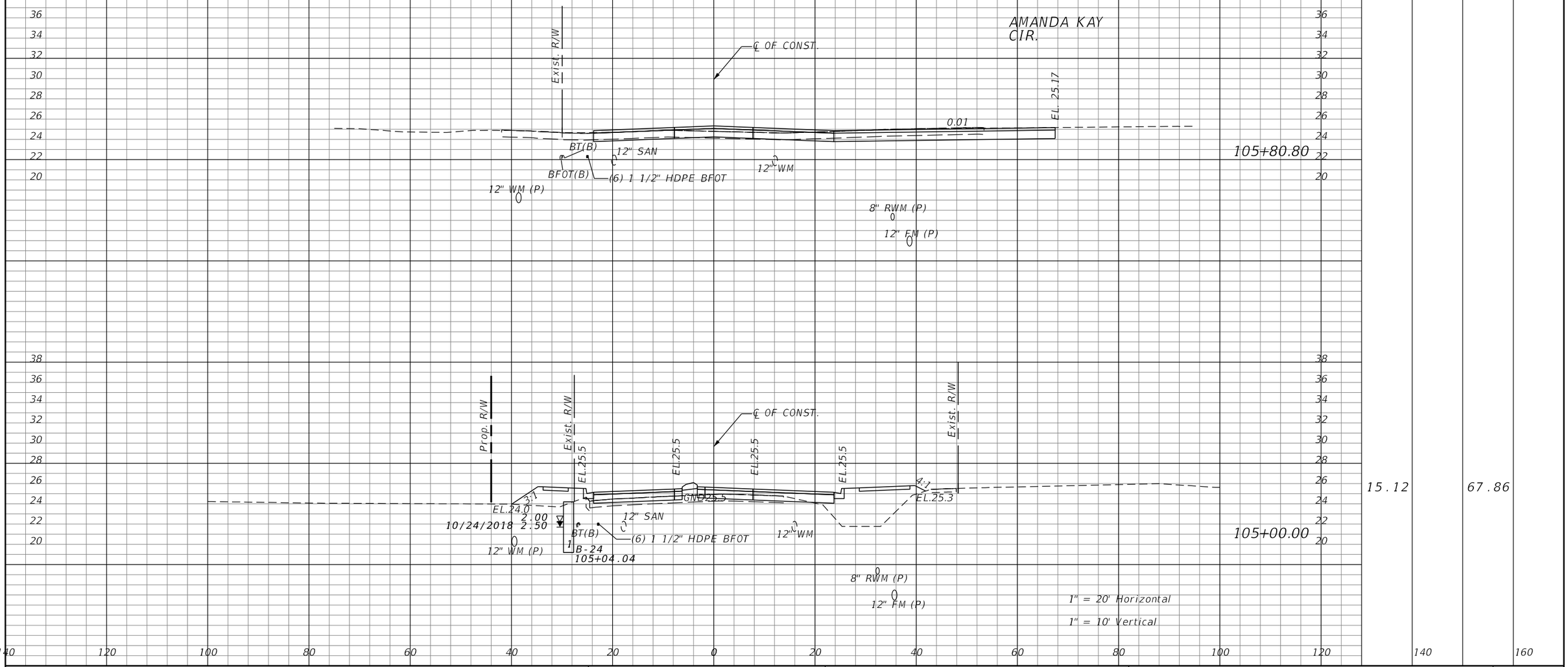
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 225

Regular Exc.		Embankment	
A	V	A	V
	144.0		126.0
	15.12		67.86



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

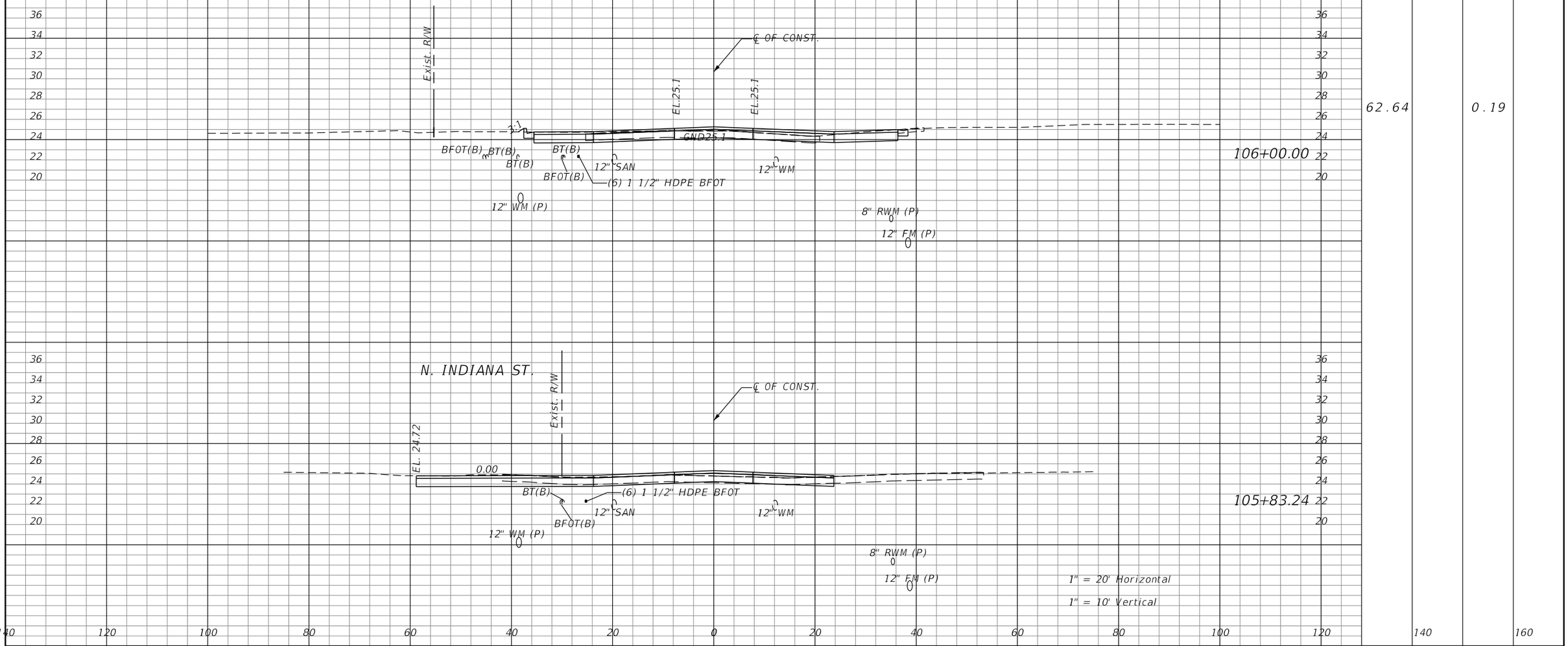
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 226

Regular Exc.		Embankment	
A	V	A	V
62.64	206.3	0.19	49.4



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

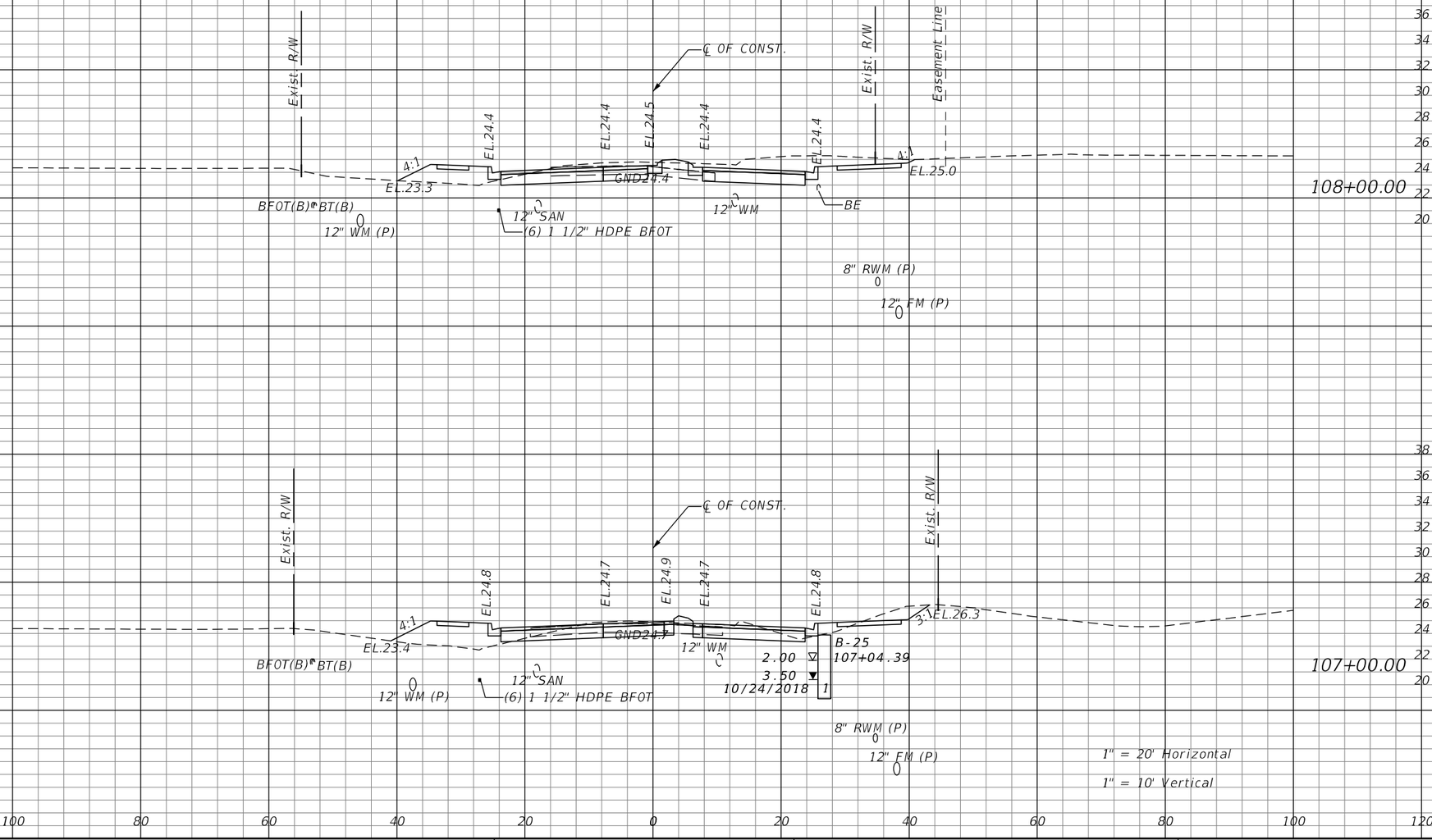
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
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LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 227



Regular Exc.		Embankment	
A	V	A	V
75.68	341.8	15.8	35.1
48.75	230.4	26.47	78.3

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

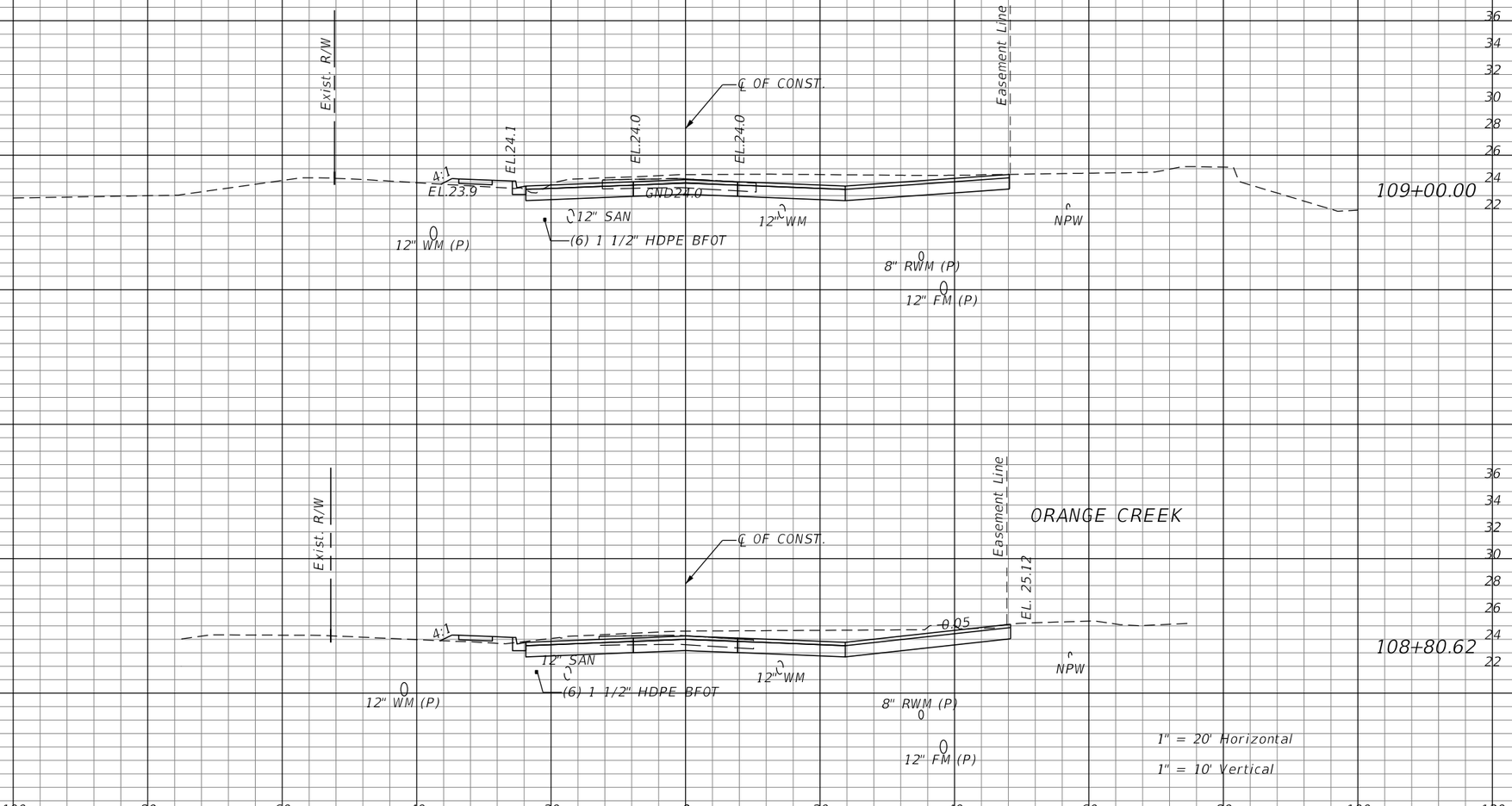
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 228

Regular Exc.		Embankment	
A	V	A	V
108.89		3.17	



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

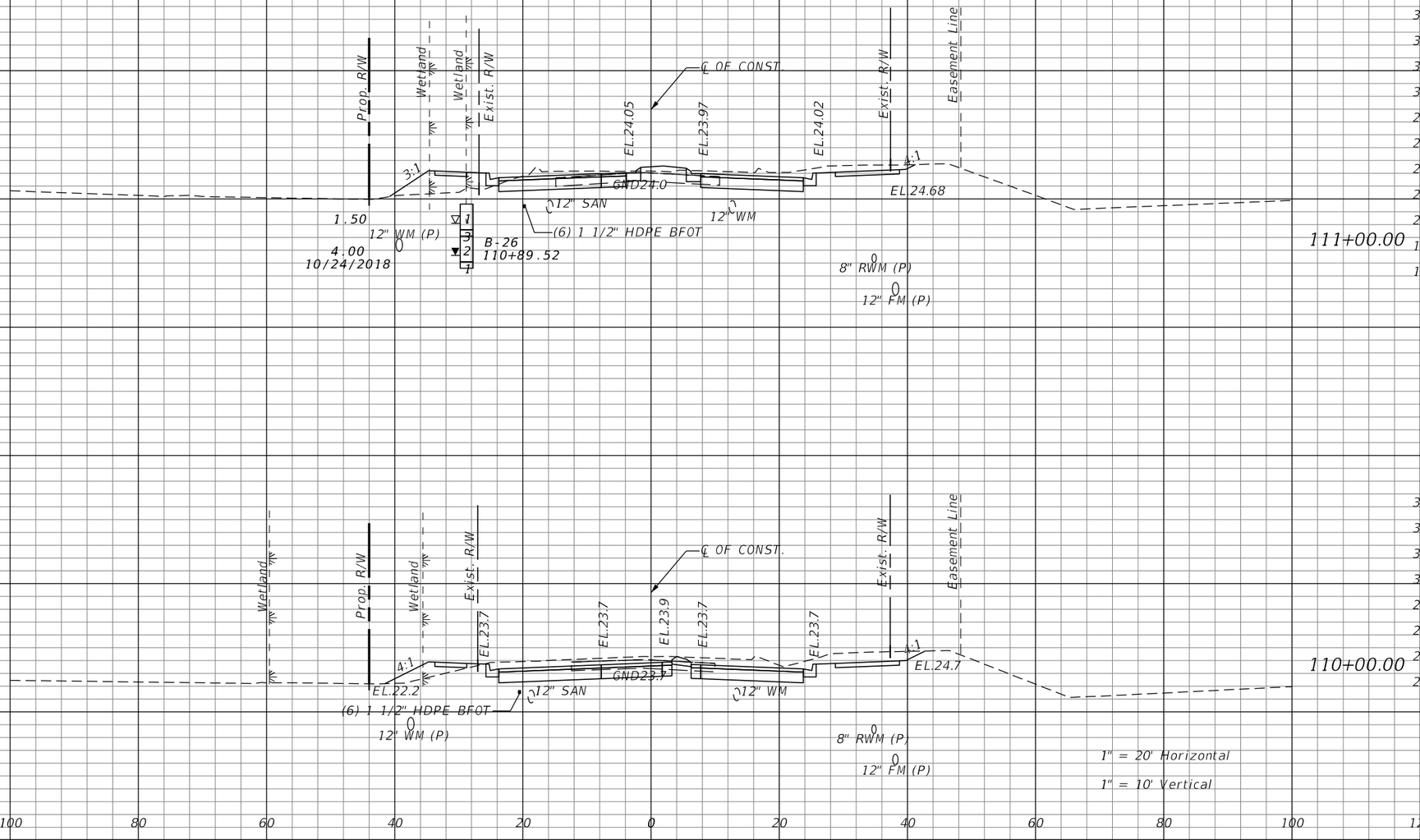
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
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LAKE MARY, FL 32746
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 229



Regular Exc.		Embankment	
A	V	A	V
	163.6		87.2
63.68		19.7	
	288.7		51.8
92.23		8.26	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

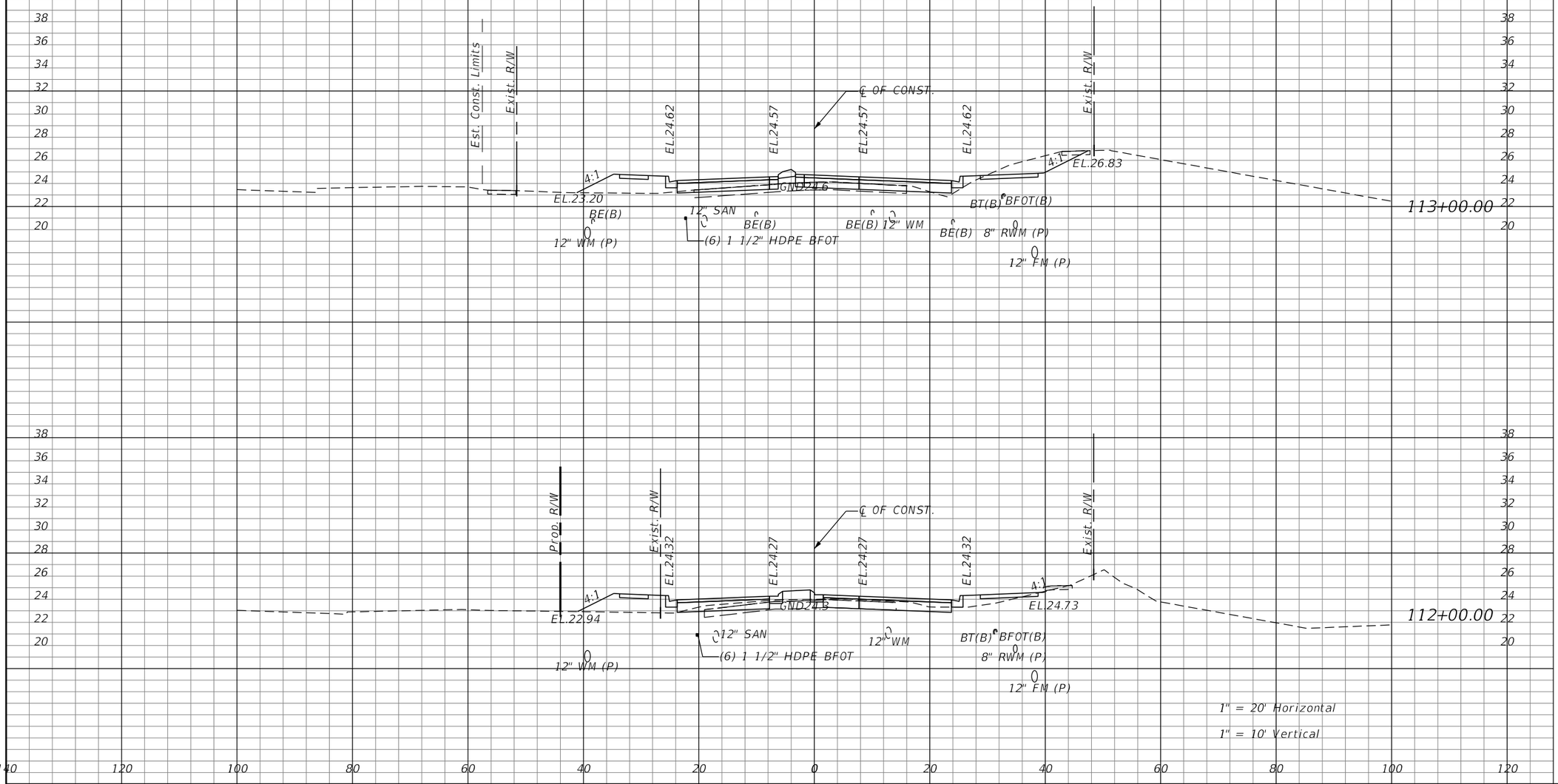
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 230



Regular Exc.		Embankment	
A	V	A	V
30.42		22.82	
24.64		27.4	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

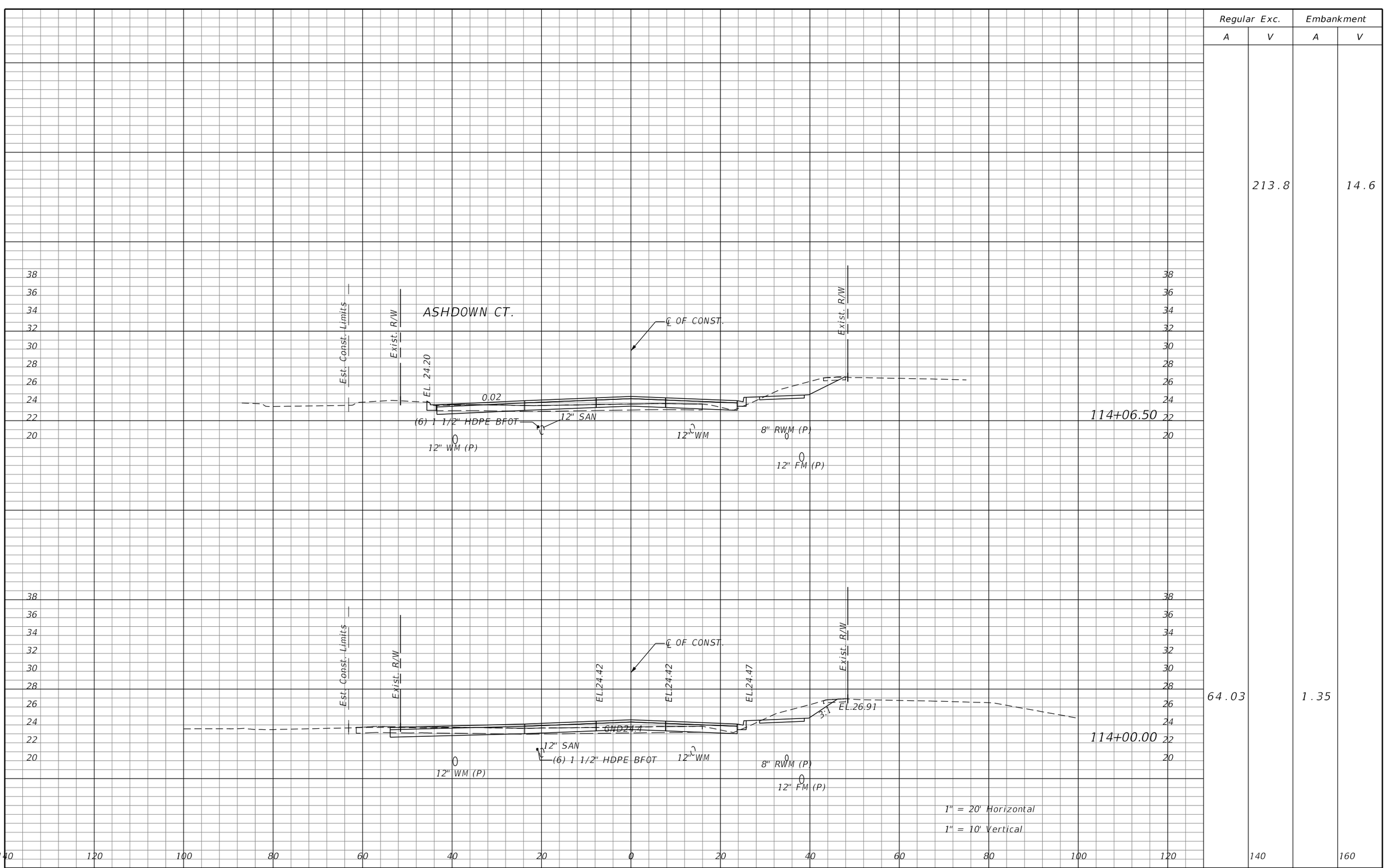
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 231



Regular Exc.		Embankment	
A	V	A	V
	213.8		14.6
	64.03		1.35
	174.9		44.8

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

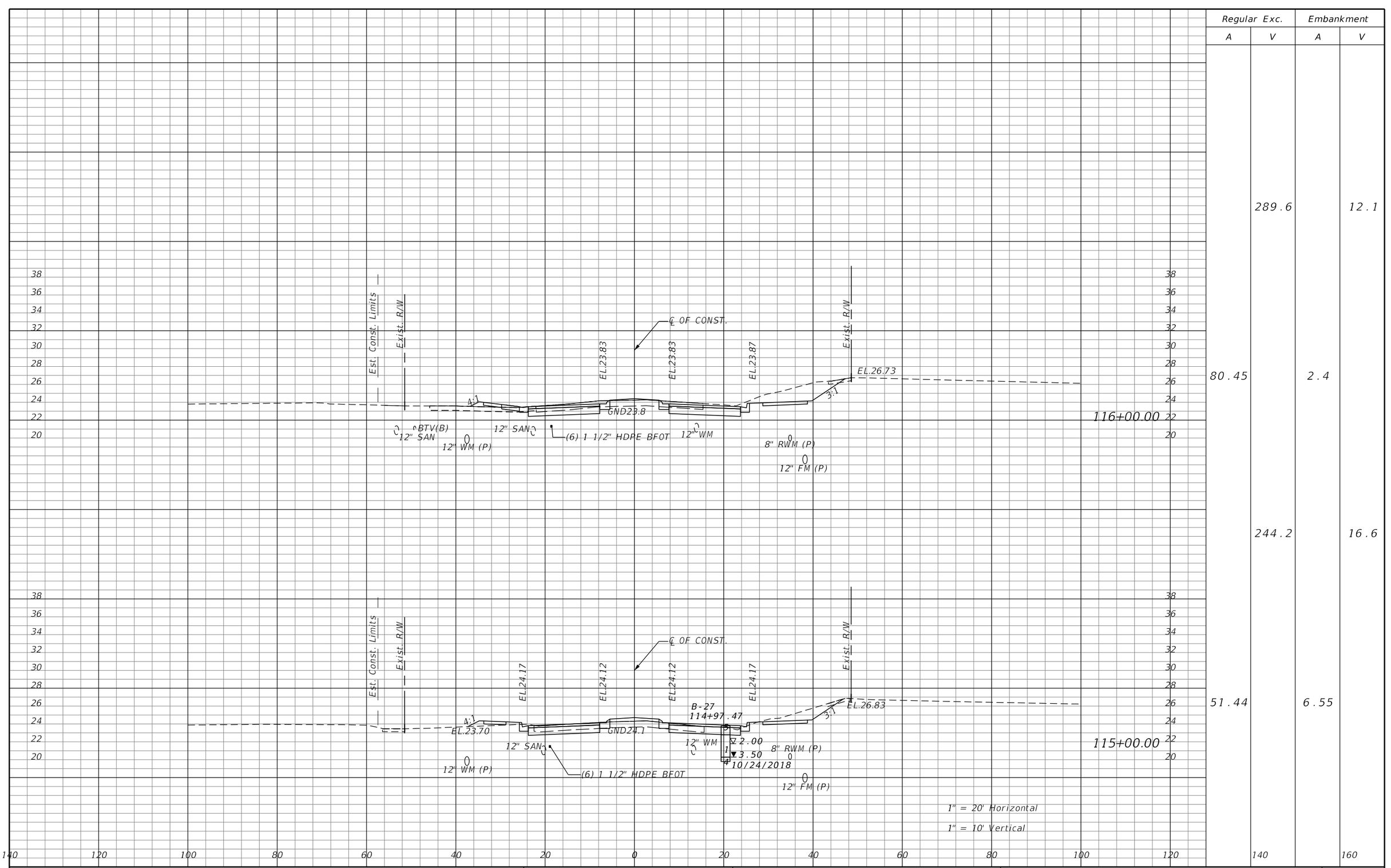
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CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 232



Regular Exc.		Embankment	
A	V	A	V
80.45	289.6	2.4	12.1
51.44	244.2	6.55	16.6

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

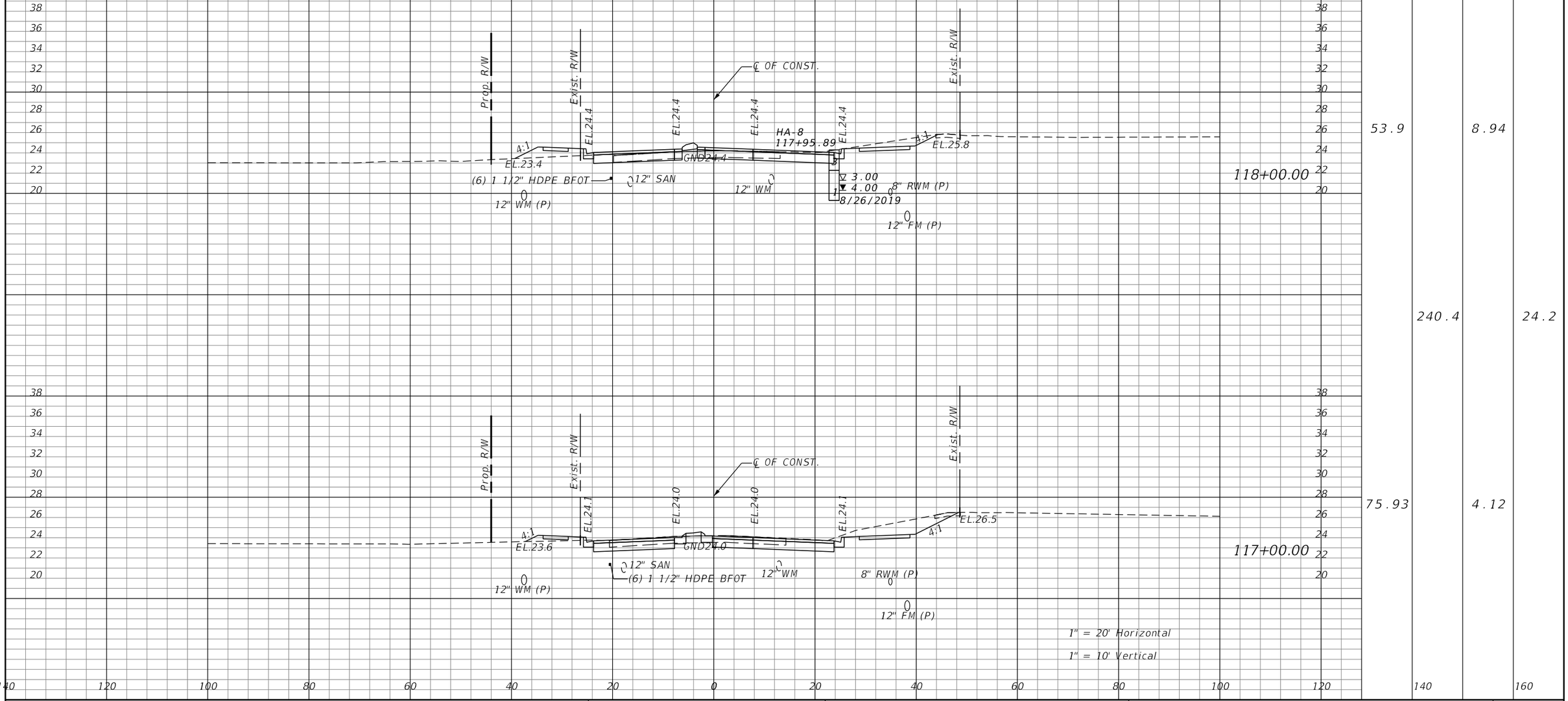
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 233



Regular Exc.		Embankment	
A	V	A	V
	289.9		17.5
53.9		8.94	
	240.4		24.2
75.93		4.12	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

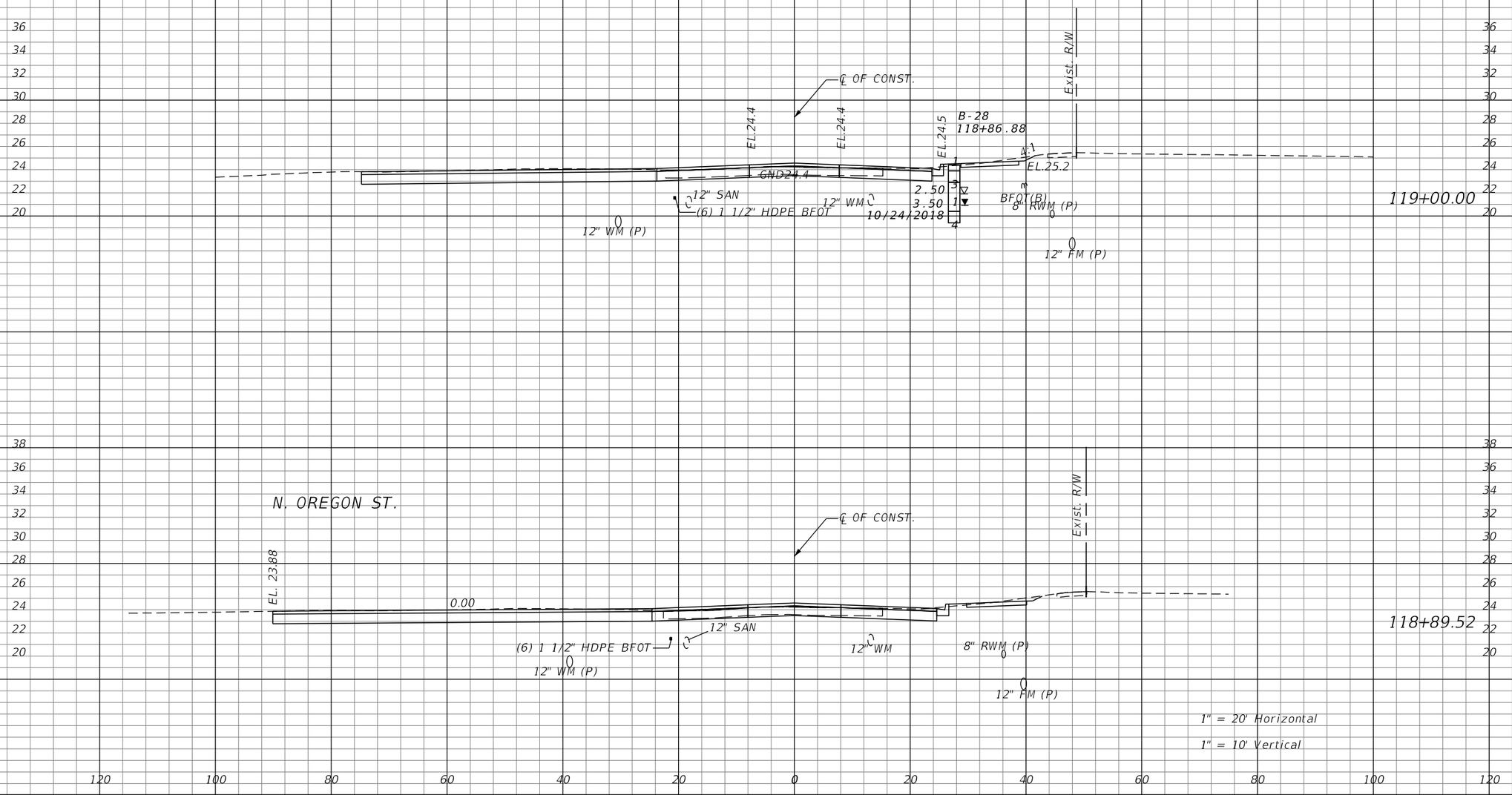
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 234

Regular Exc.		Embankment	
A	V	A	V
102.62		0.51	



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

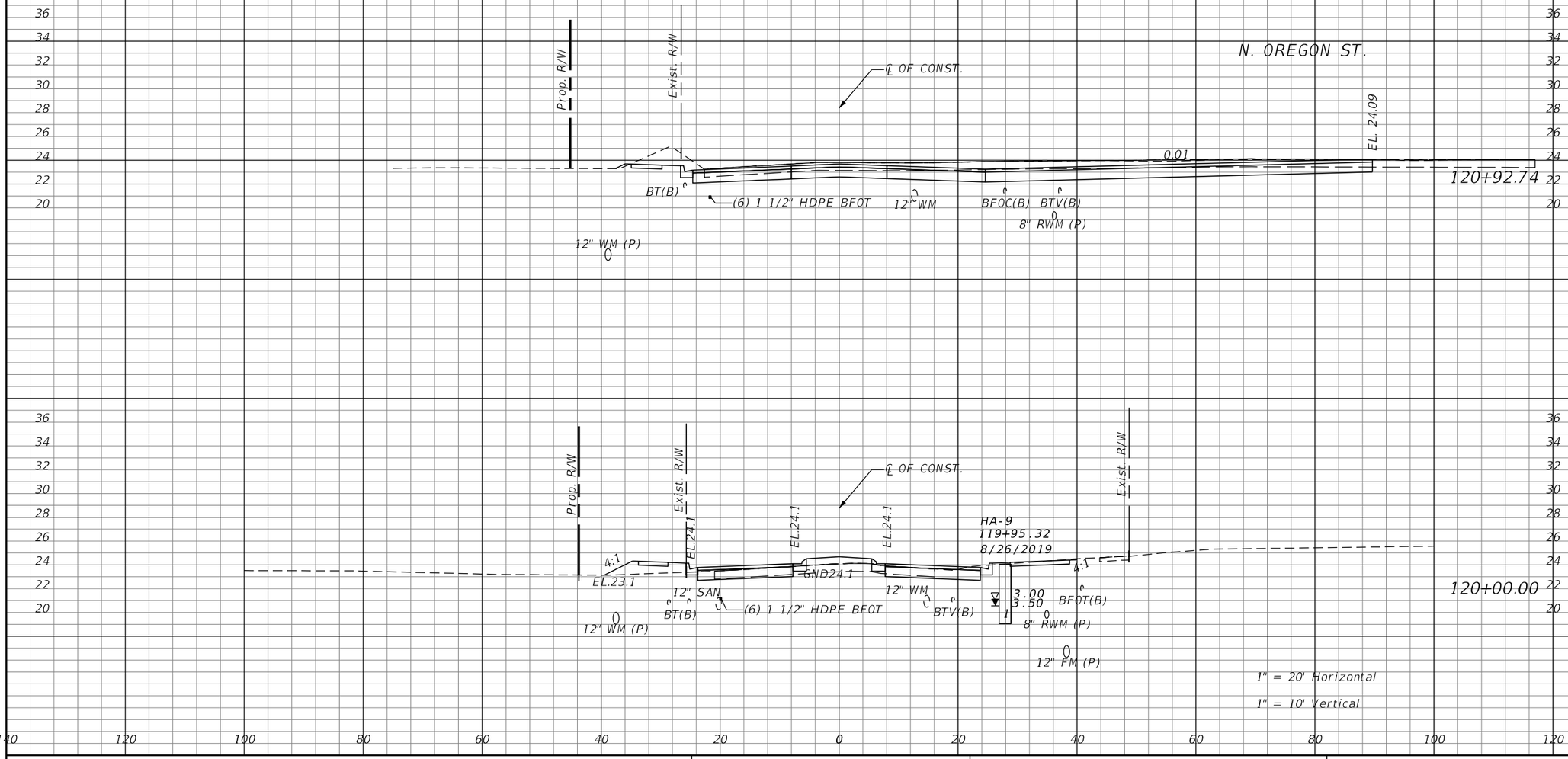
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 235



Regular Exc.		Embankment	
A	V	A	V
34.08	253.2	15.66	29.9

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

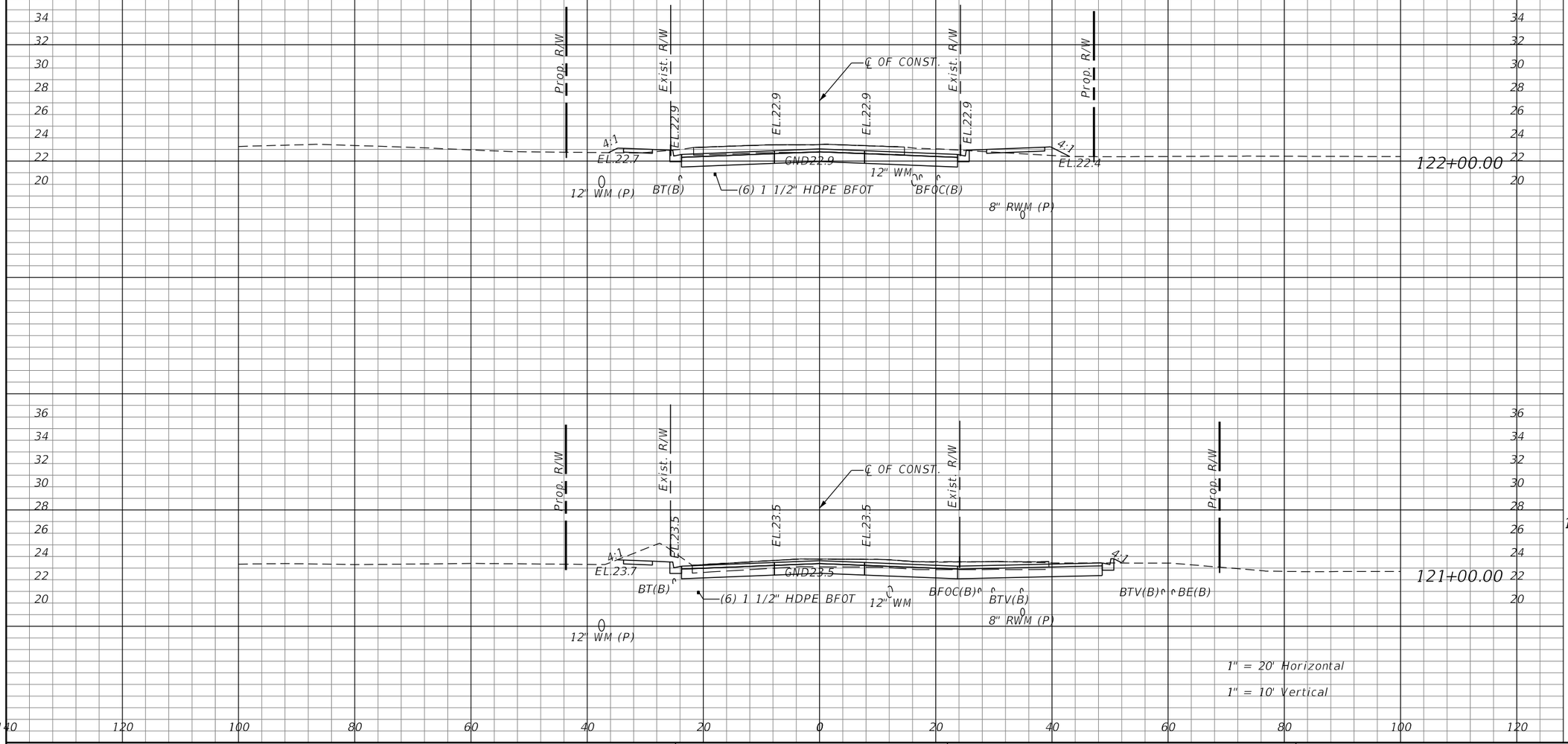
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 236



Regular Exc.		Embankment	
A	V	A	V
77.86		4.72	
	343.4		9.3
107.58		0.28	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

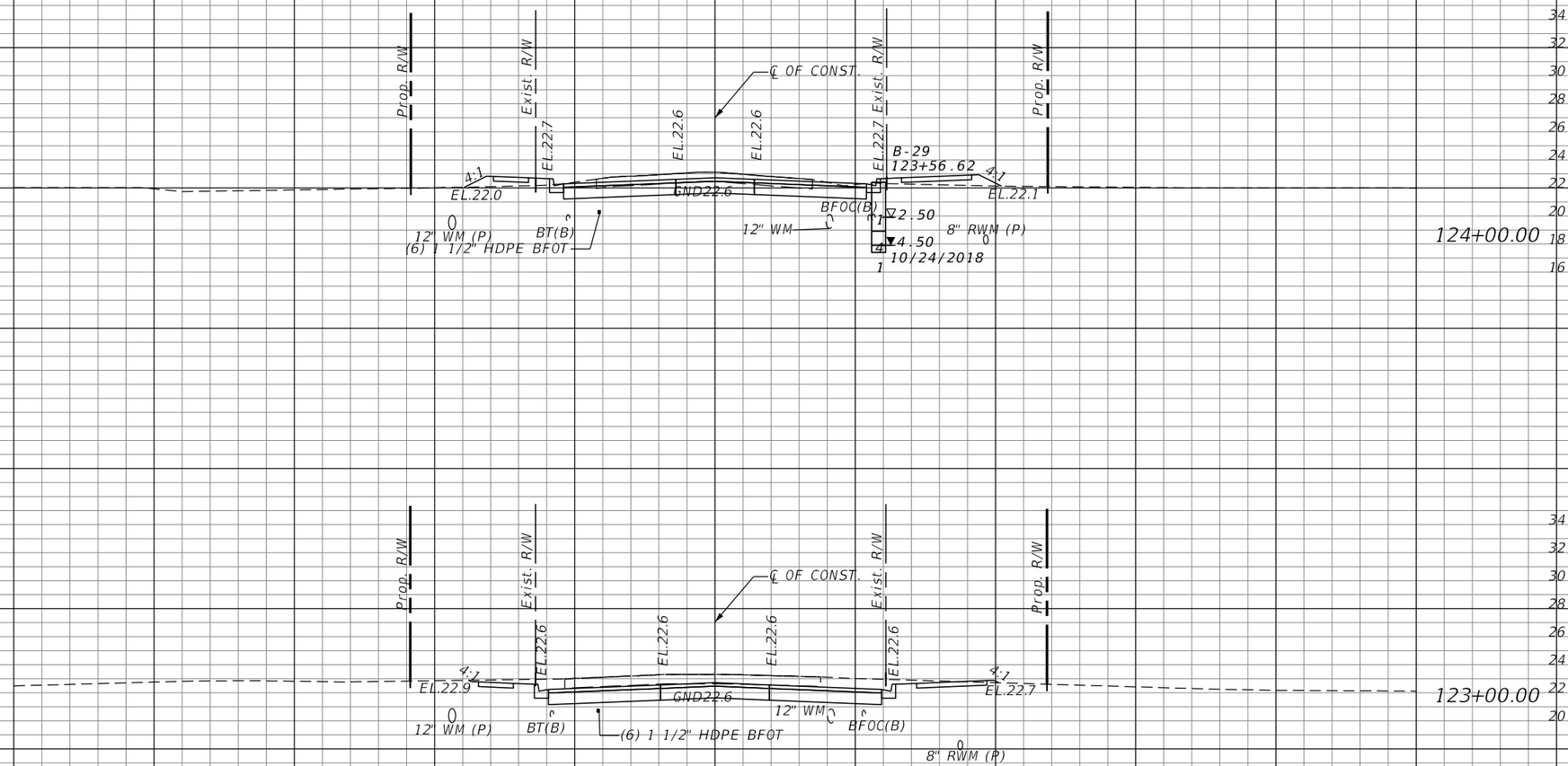
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 237



Regular Exc.		Embankment	
A	V	A	V
	167.3		131.1
59.66		10.83	
	291.4		20.4
97.71		0.21	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

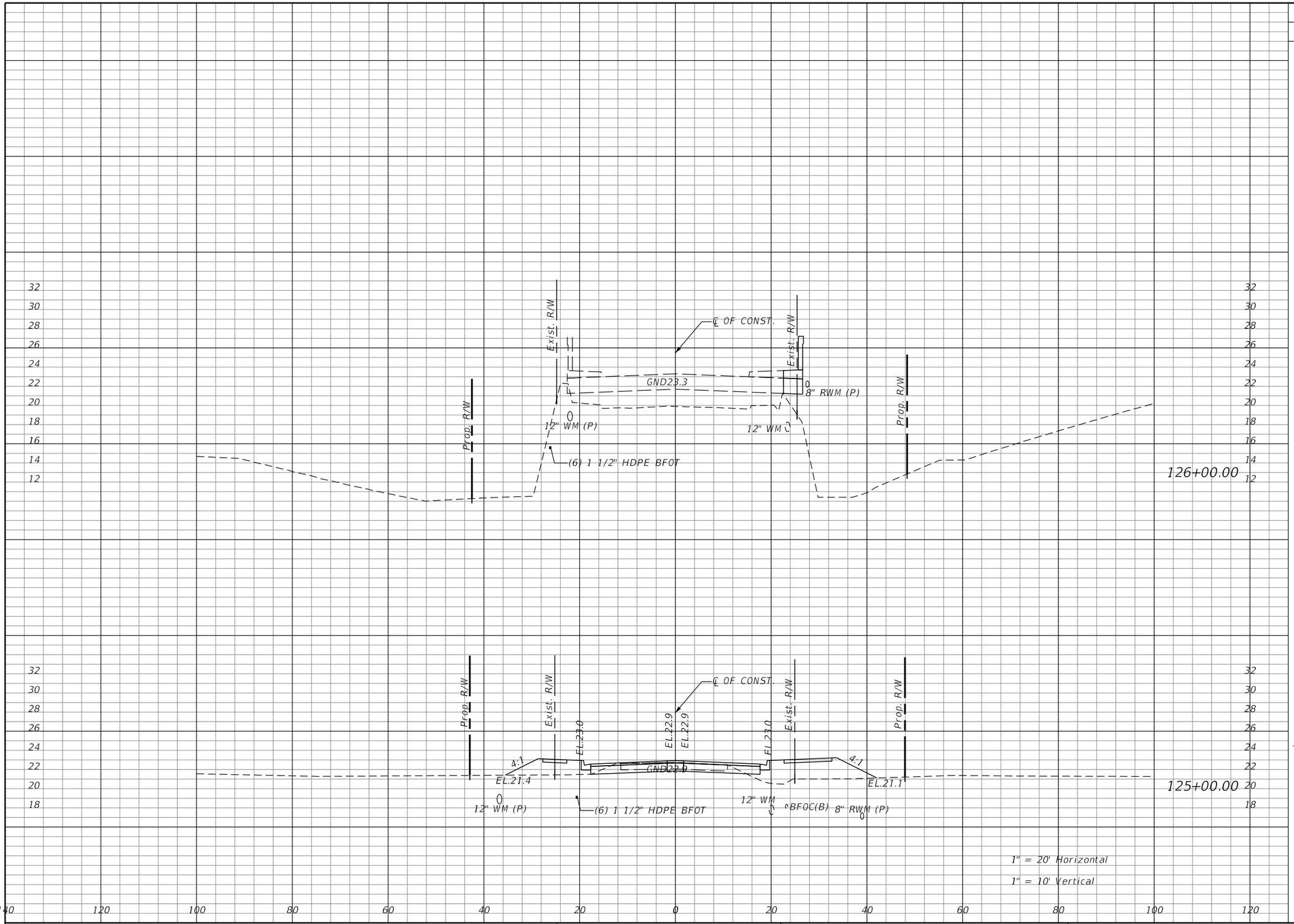
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 238



Regular Exc.		Embankment	
A	V	A	V
	65.8		38.9
0		0	
	56.8		111.0
30.67		59.94	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

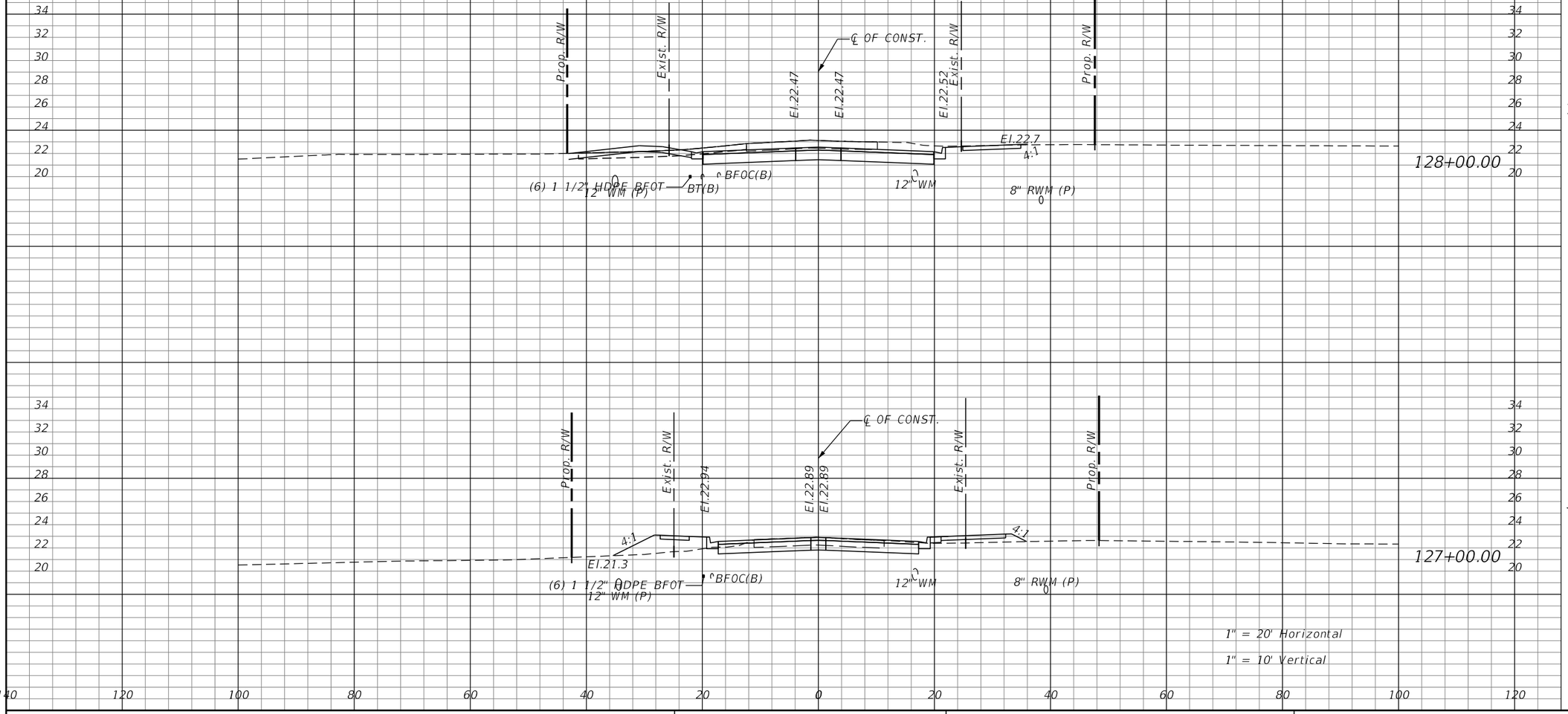
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
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SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 239



Regular Exc.		Embankment	
A	V	A	V
	627.1		0.1
78.97		0.06	
	212.1		39.0
35.55		20.99	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

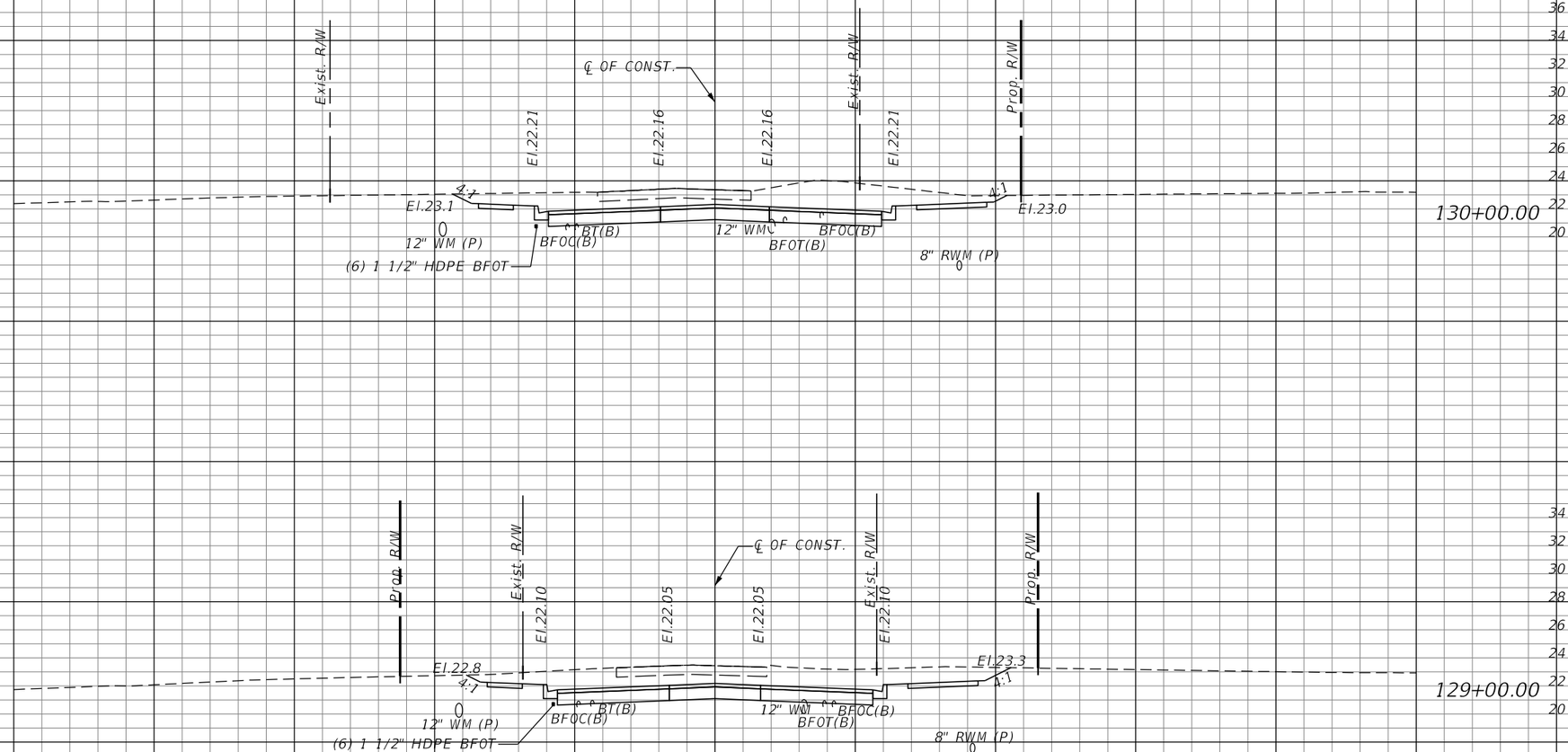
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 240

Regular Exc.		Embankment	
A	V	A	V
	450.2		0.0
152.05		0	
	762.4		0.0
259.67		0	



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

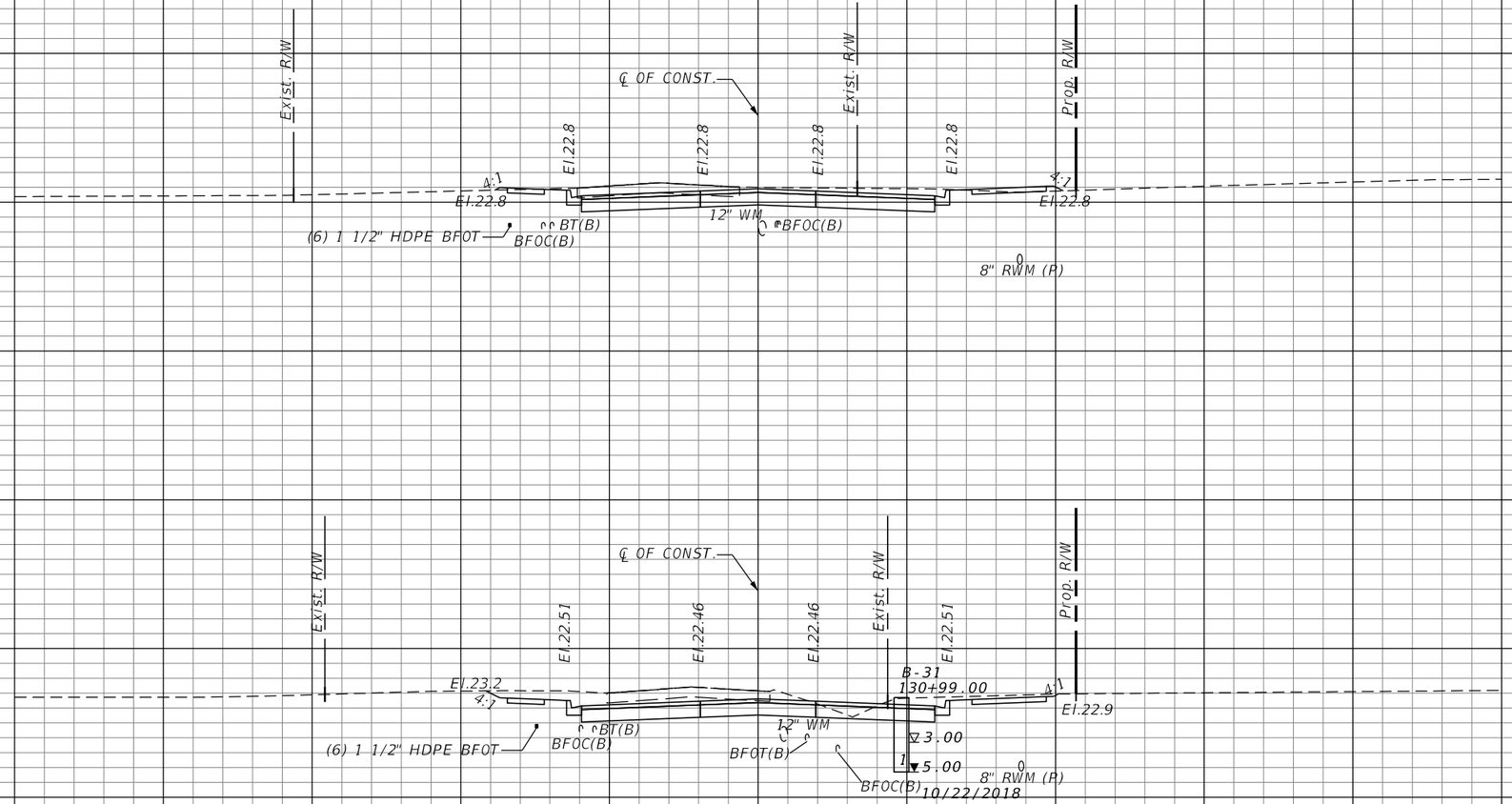
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 241



1" = 20' Horizontal

1" = 10' Vertical

Regular Exc.		Embankment	
A	V	A	V
76.04	316.9	0.82	1.5
91.07	309.5	0	1.5

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

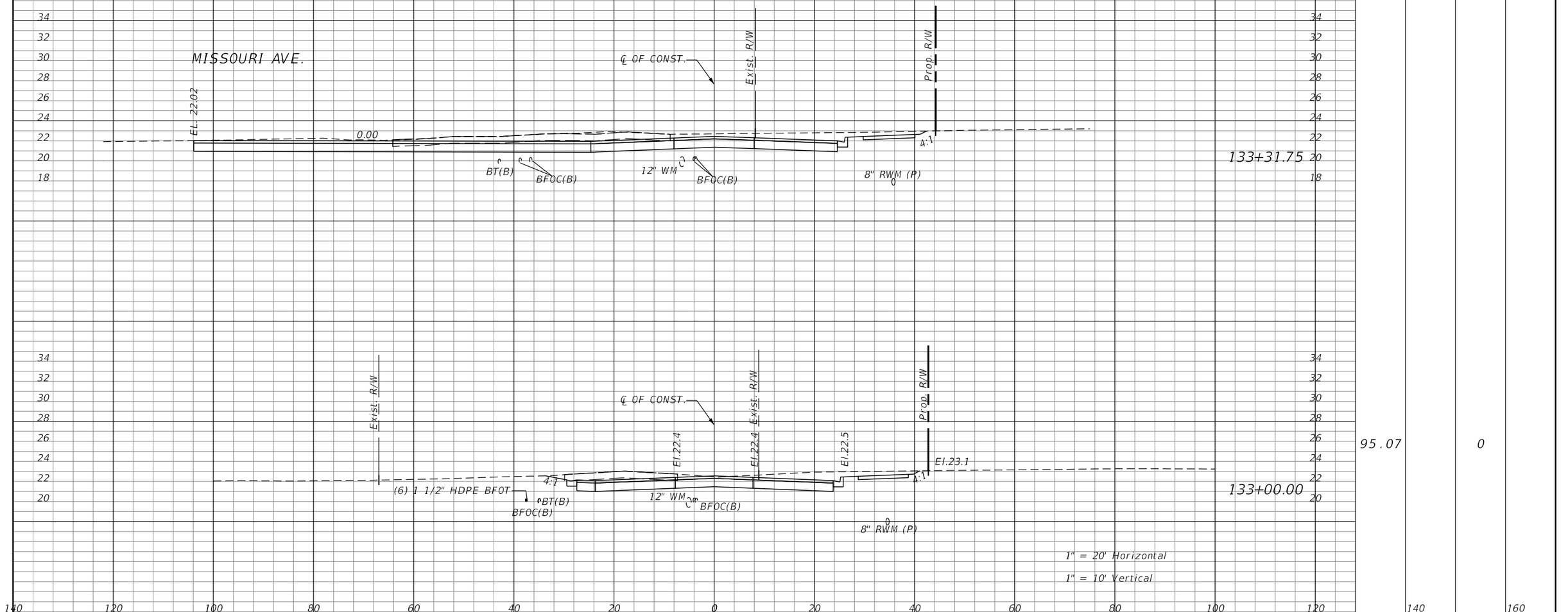
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 242

Regular Exc.		Embankment	
A	V	A	V
95.07			0



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

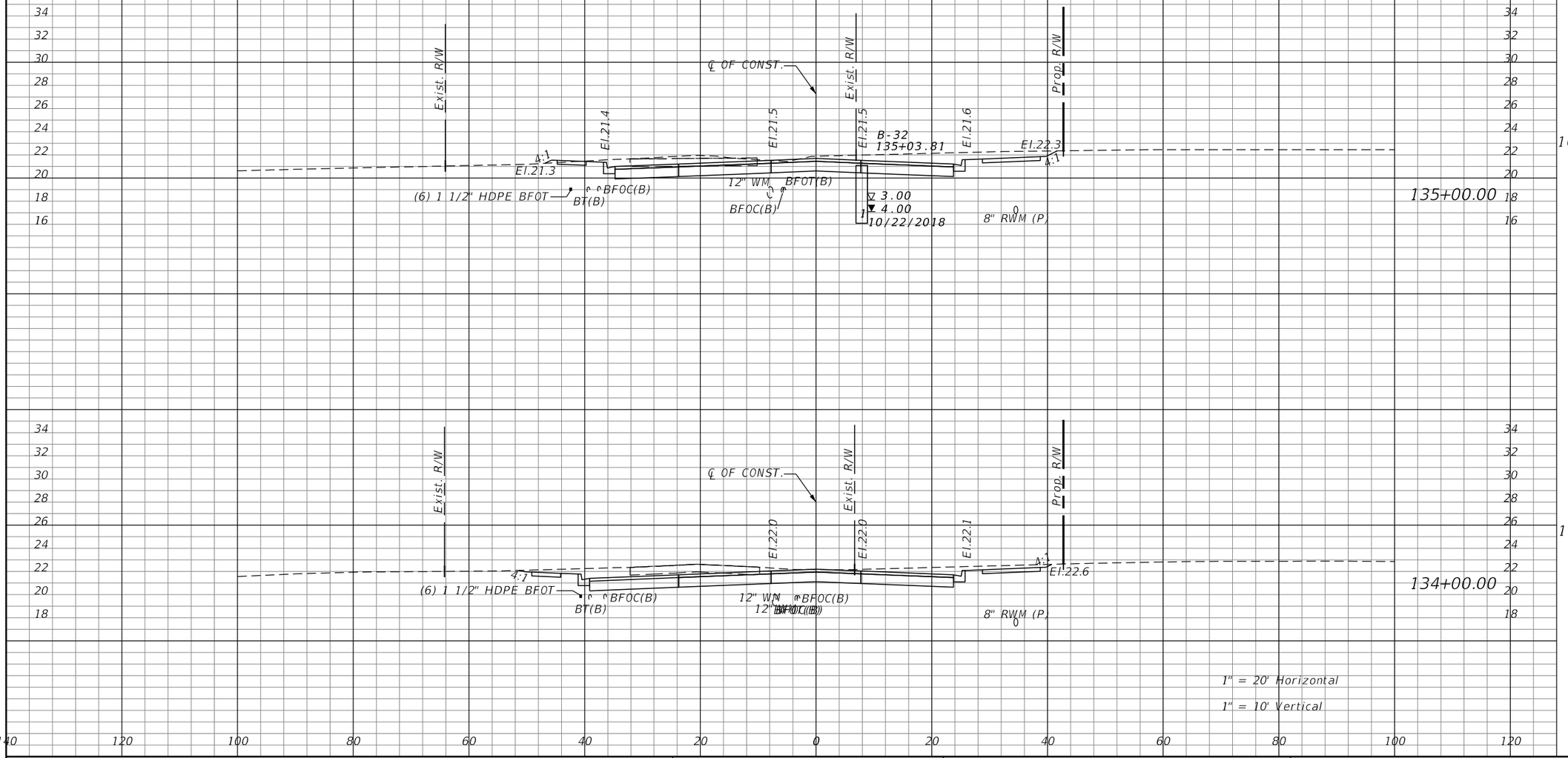
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
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LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 243



Regular Exc.		Embankment	
A	V	A	V
	347.4		2.1
109.34		0	
	413.8		0.0
114.11		0	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

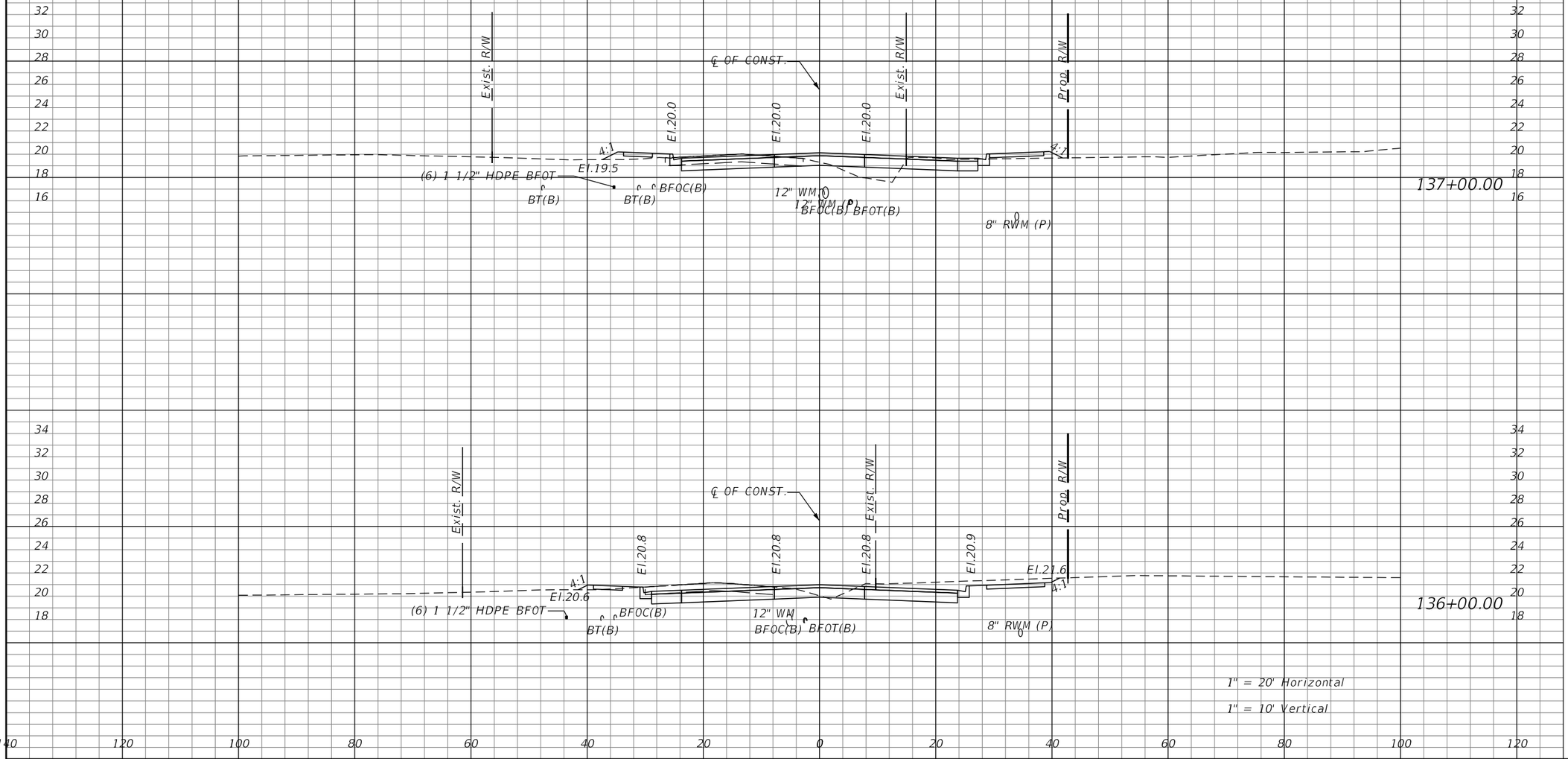
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 244

Regular Exc.		Embankment	
A	V	A	V
	213.5		45.7
71.35		12.53	
	277.0		25.3
78.24		1.15	



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 245

Regular Exc.		Embankment	
A	V	A	V
43.95		12.16	



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

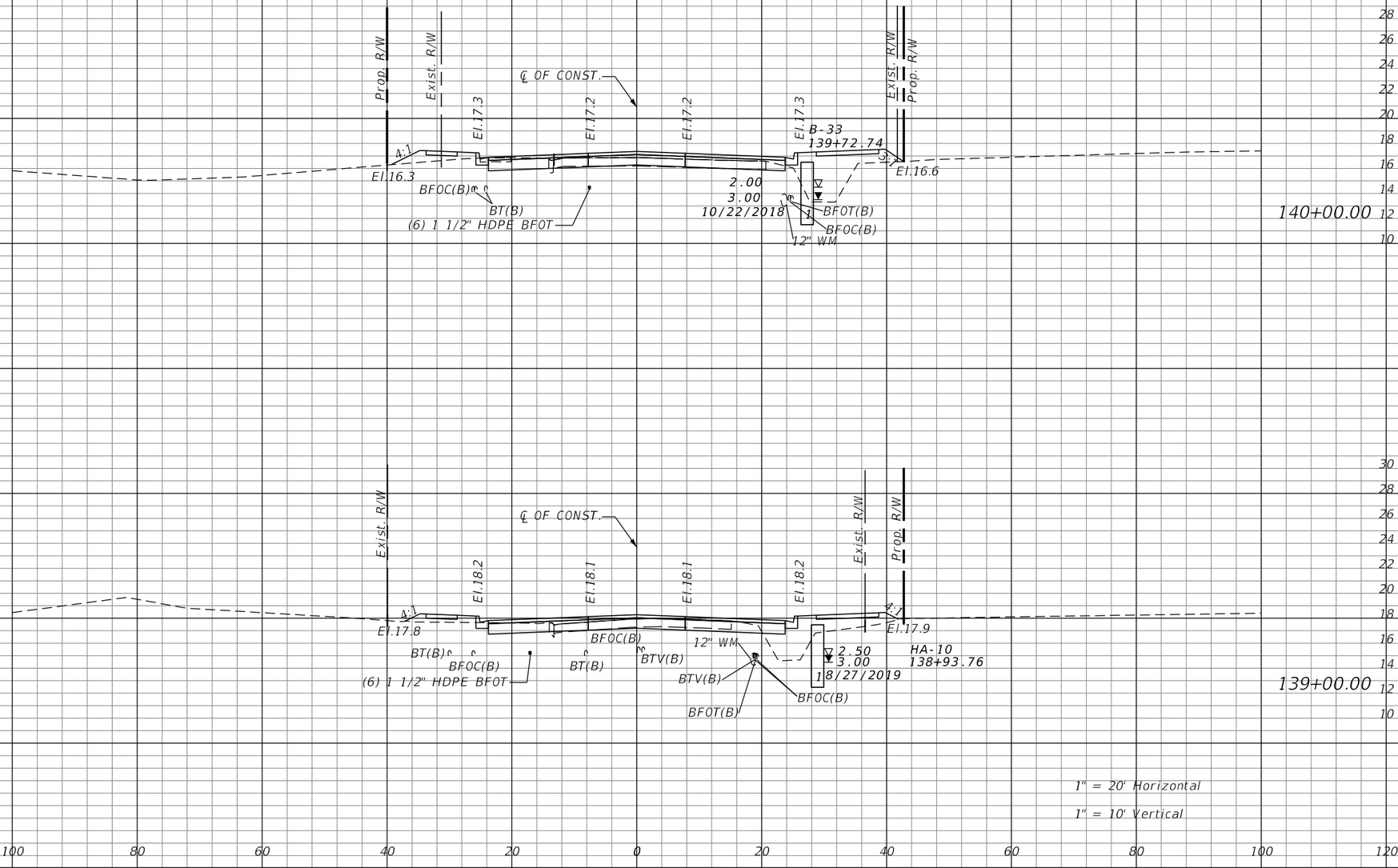
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 246



Regular Exc.		Embankment	
A	V	A	V
	104.2		164.3
35.03		41.4	
	129.0		136.7
34.65		32.42	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

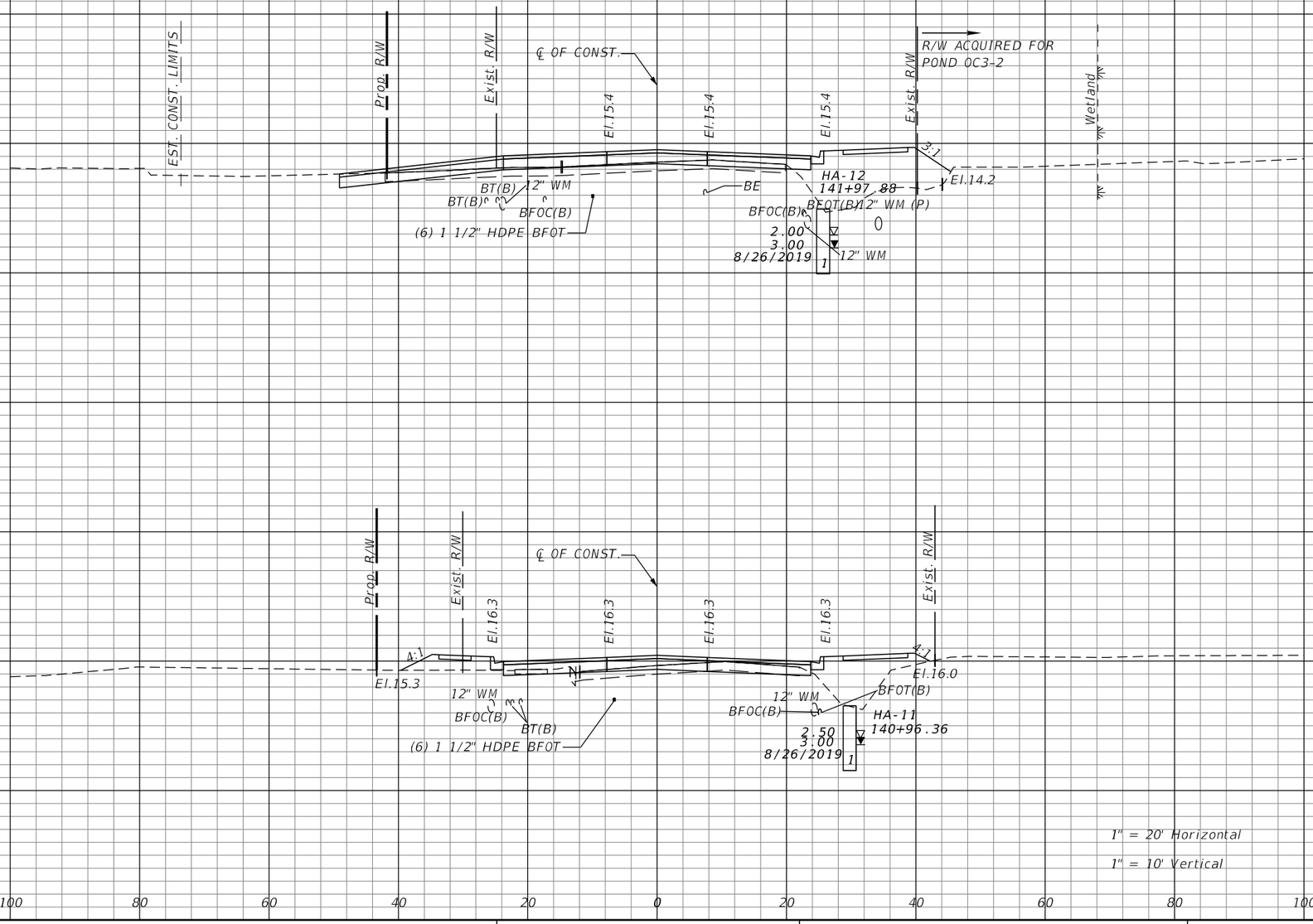
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 247



Regular Exc.		Embankment	
A	V	A	V
	61.6		201.7
23.21		68.74	
	82.4		215.0
21.26		47.34	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
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JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

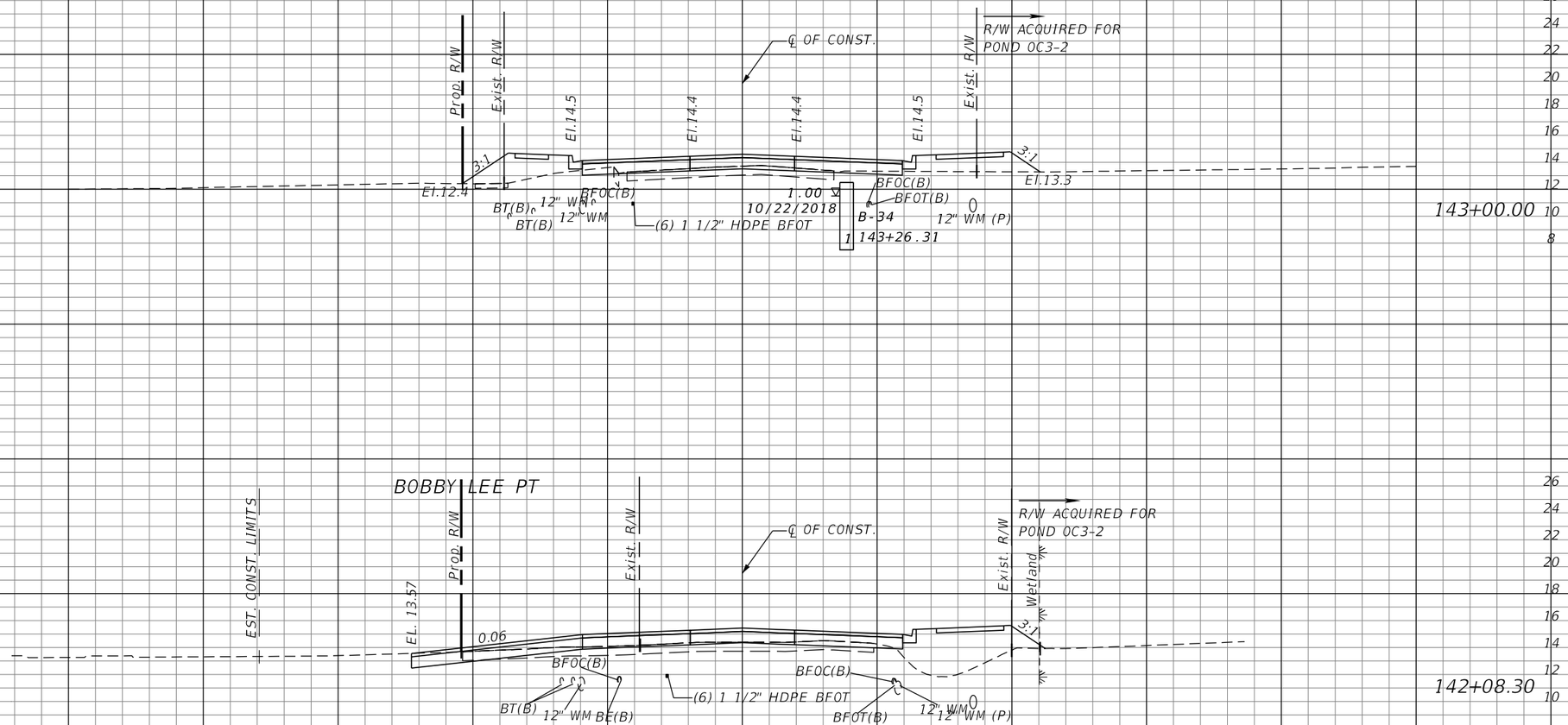
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 248

Regular Exc.		Embankment	
A	V	A	V
10.03	20.9	40.19	245.4



1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

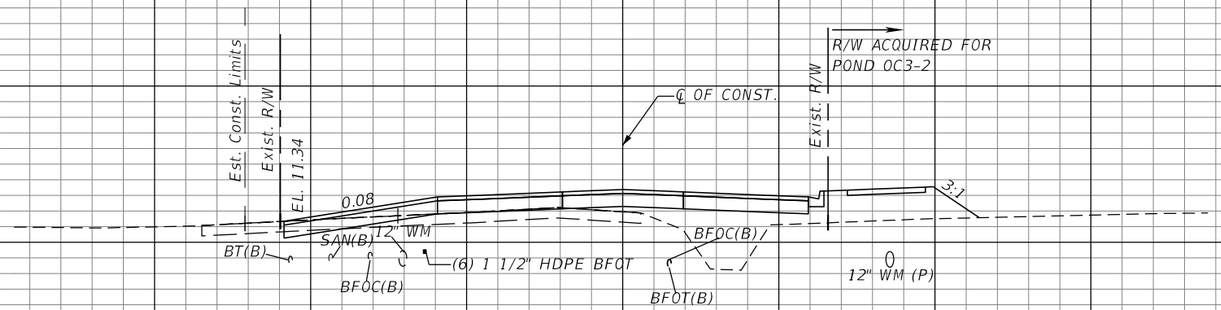
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

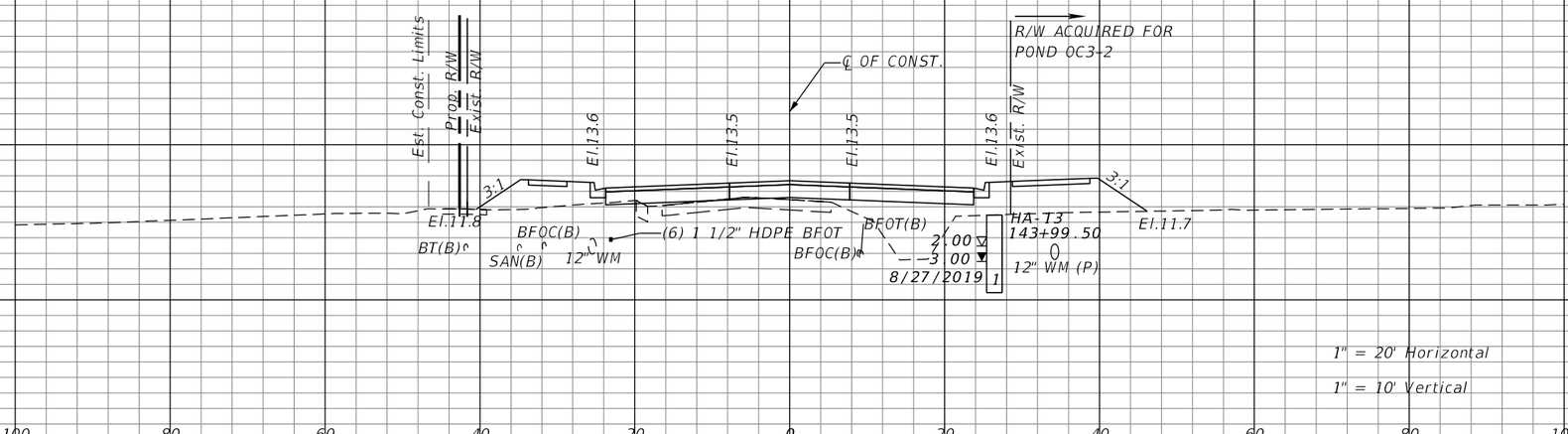
ROADWAY CROSS-SECTIONS

SHEET NO. 249

Regular Exc.		Embankment	
A	V	A	V

SANFORD PORT AUTHORITY





1.24		92.32	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

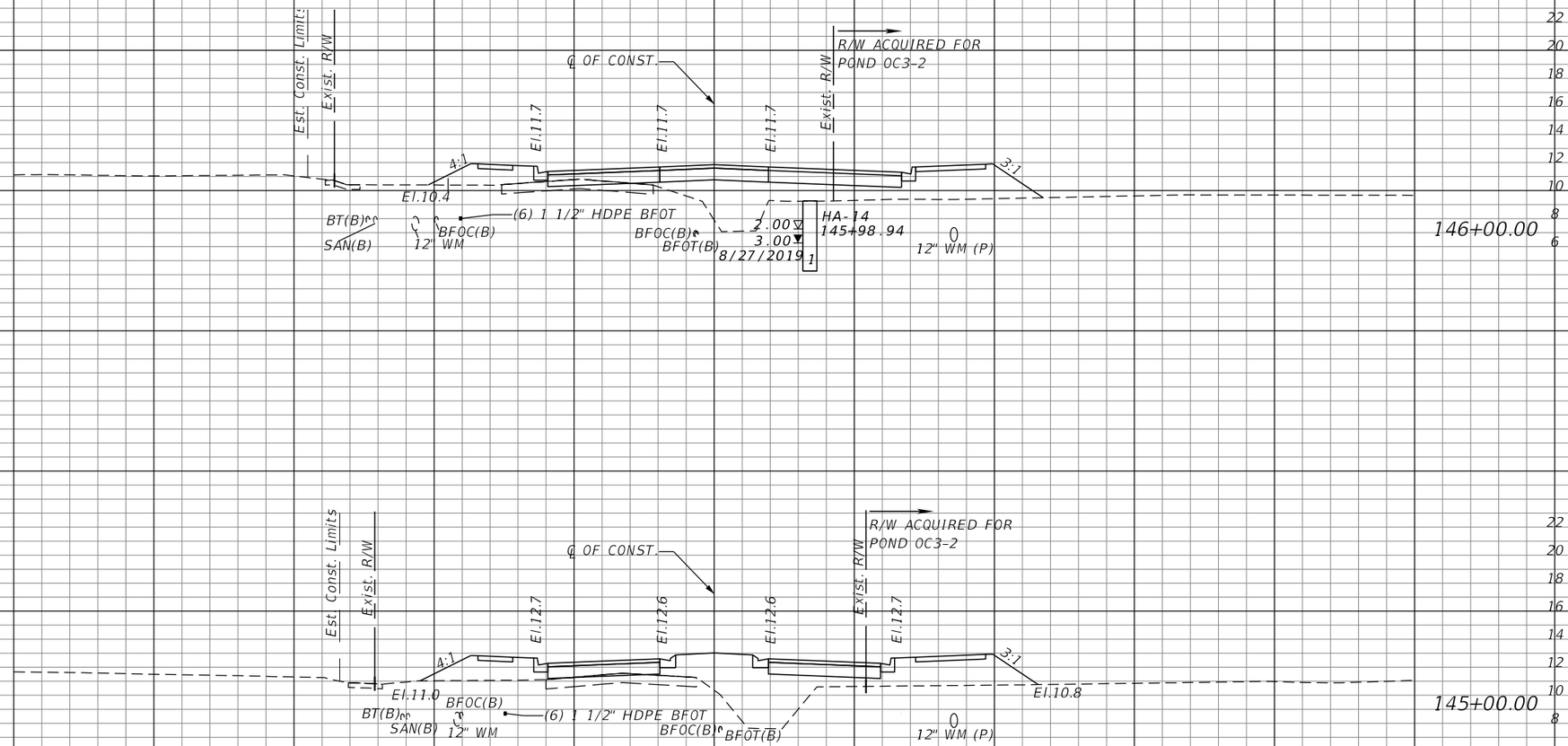
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 250



Regular Exc.		Embankment	
A	V	A	V
	30.8		301.3
3.42		107.2	
	7.8		400.4
0.8		109.02	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

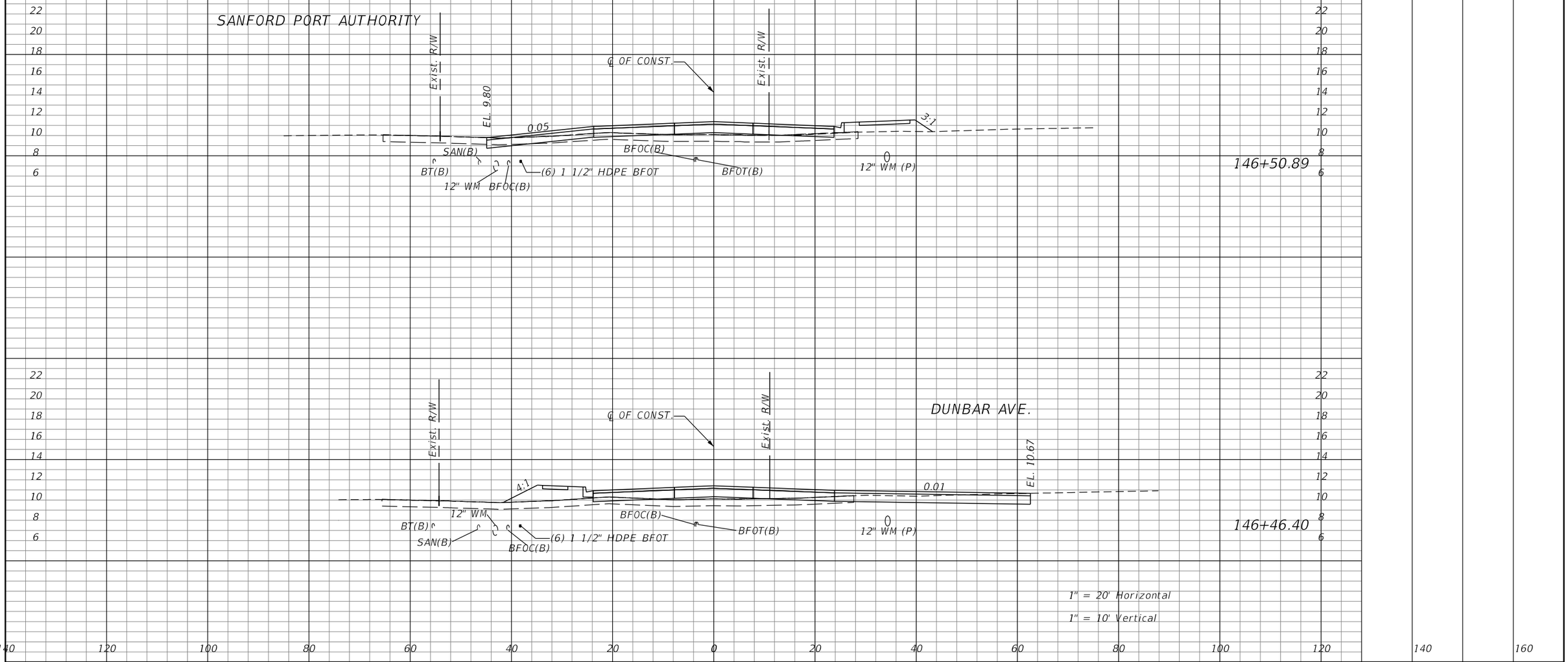
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 251

Regular Exc.		Embankment	
A	V	A	V



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

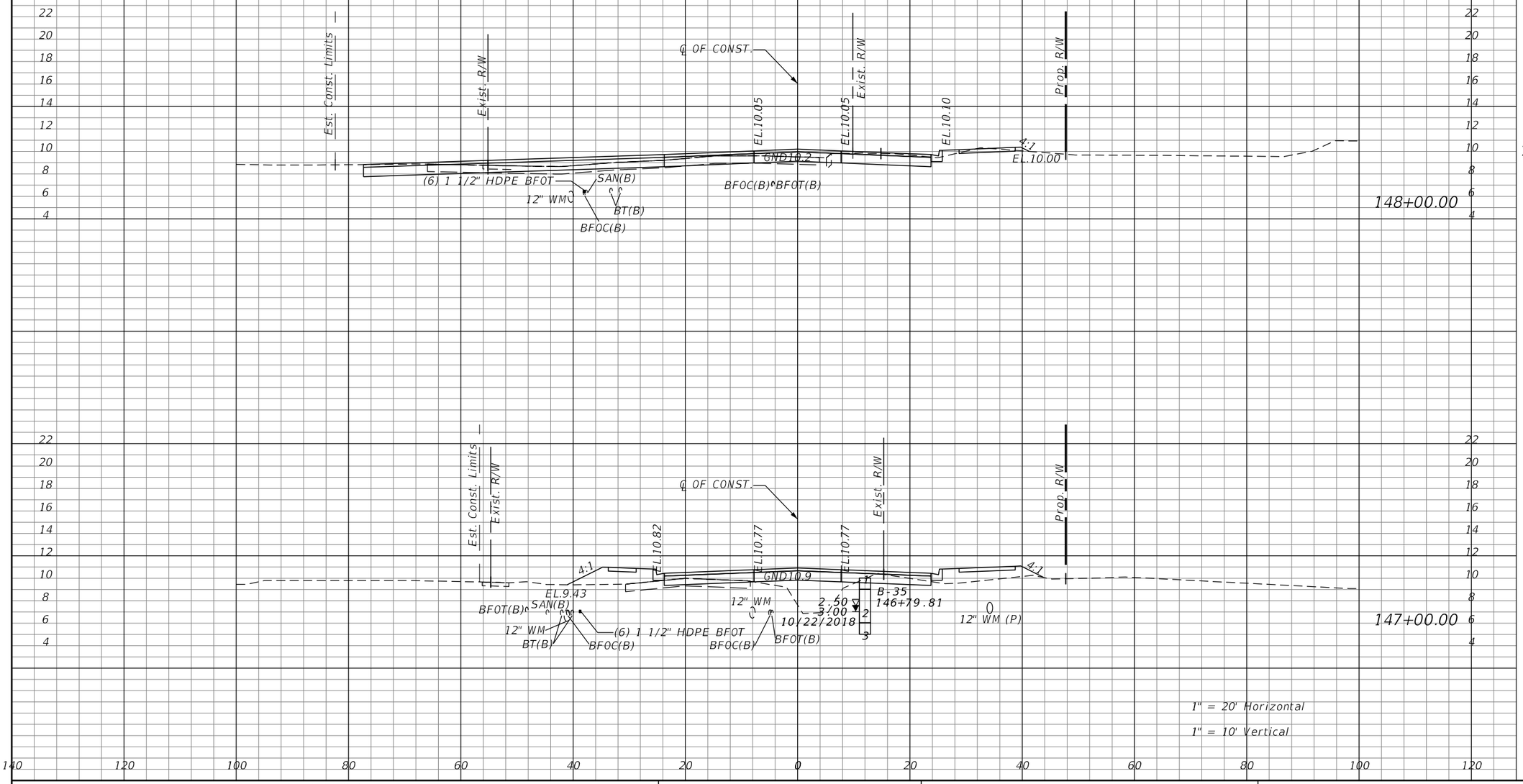
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
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LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 252



Regular Exc.		Embankment	
A	V	A	V
70.08	270.6	1.82	21.7
13.21	154.2	55.48	106.1

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

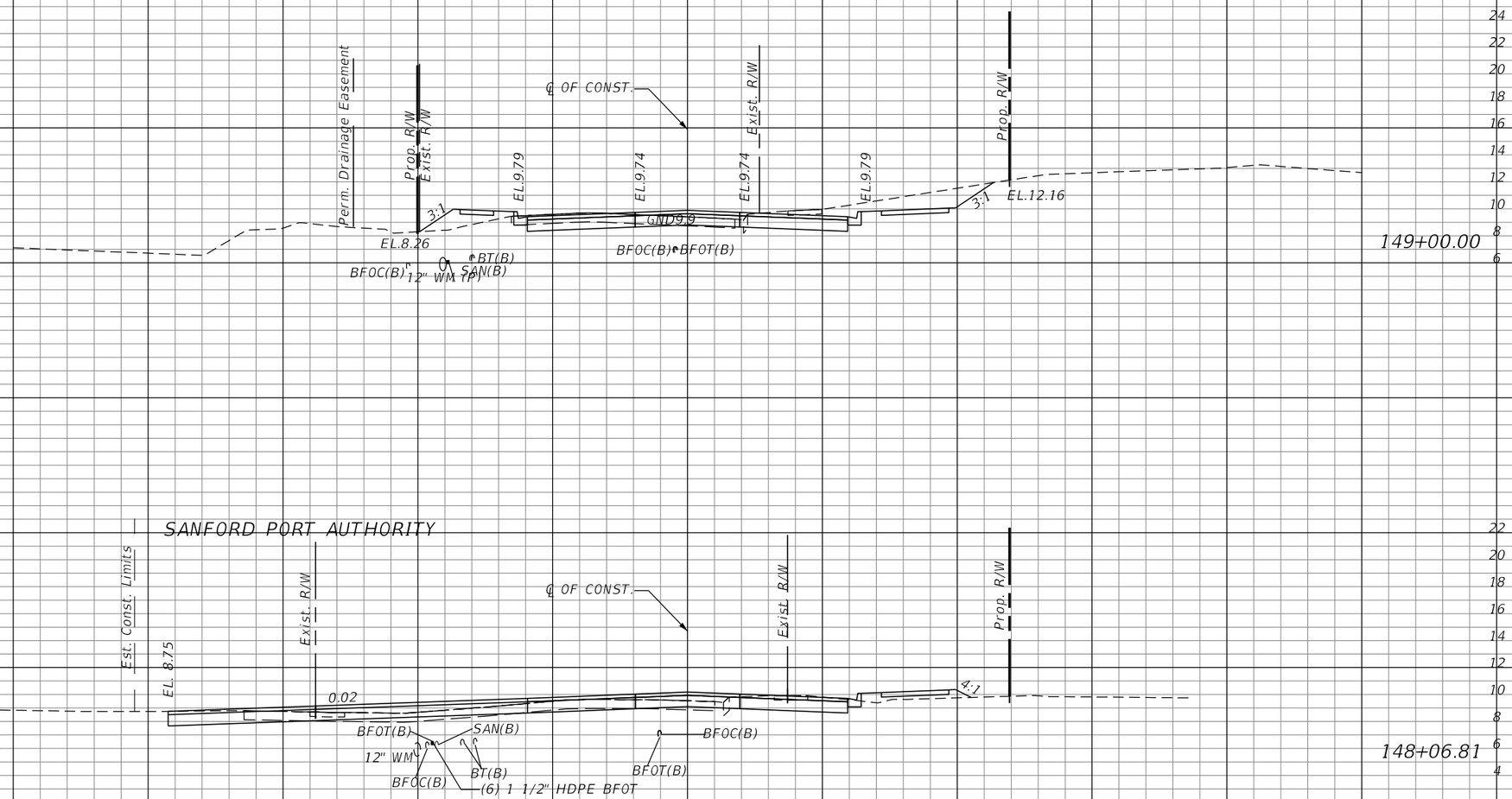
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 253

Regular Exc.		Embankment	
A	V	A	V
76.06		9.91	



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

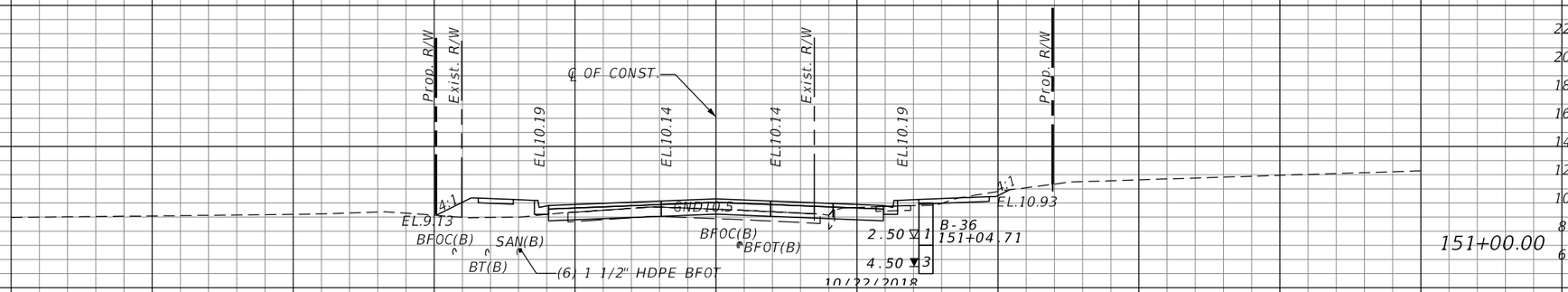
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

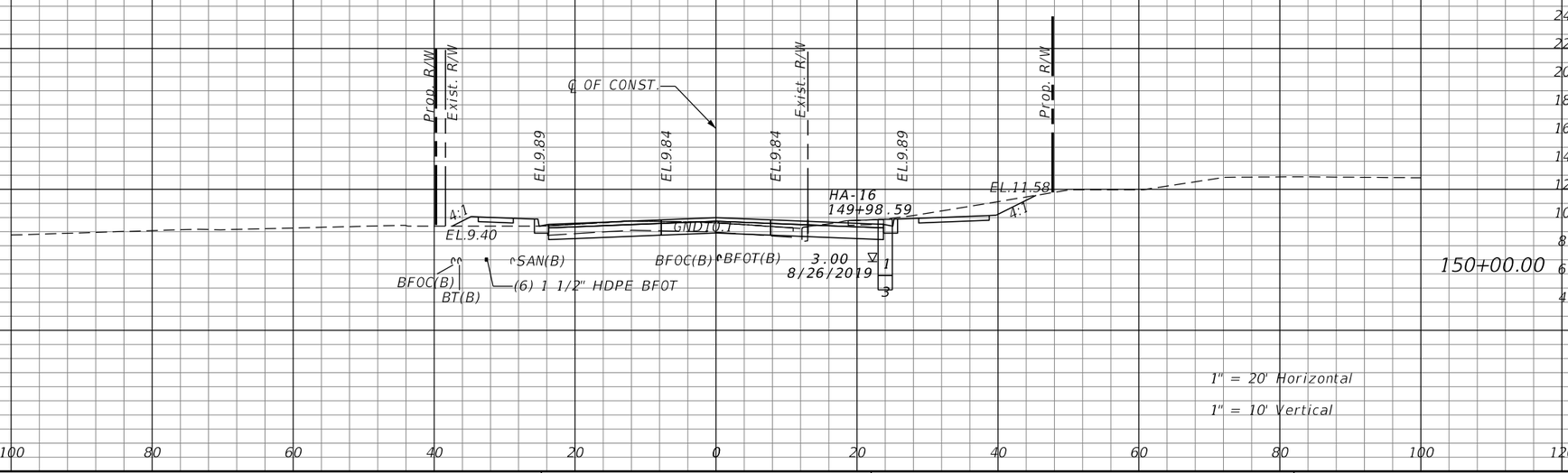
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 254





Regular Exc.		Embankment	
A	V	A	V
29.36	124.3	14.97	38.9
59.94	165.4	4.49	36.0

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

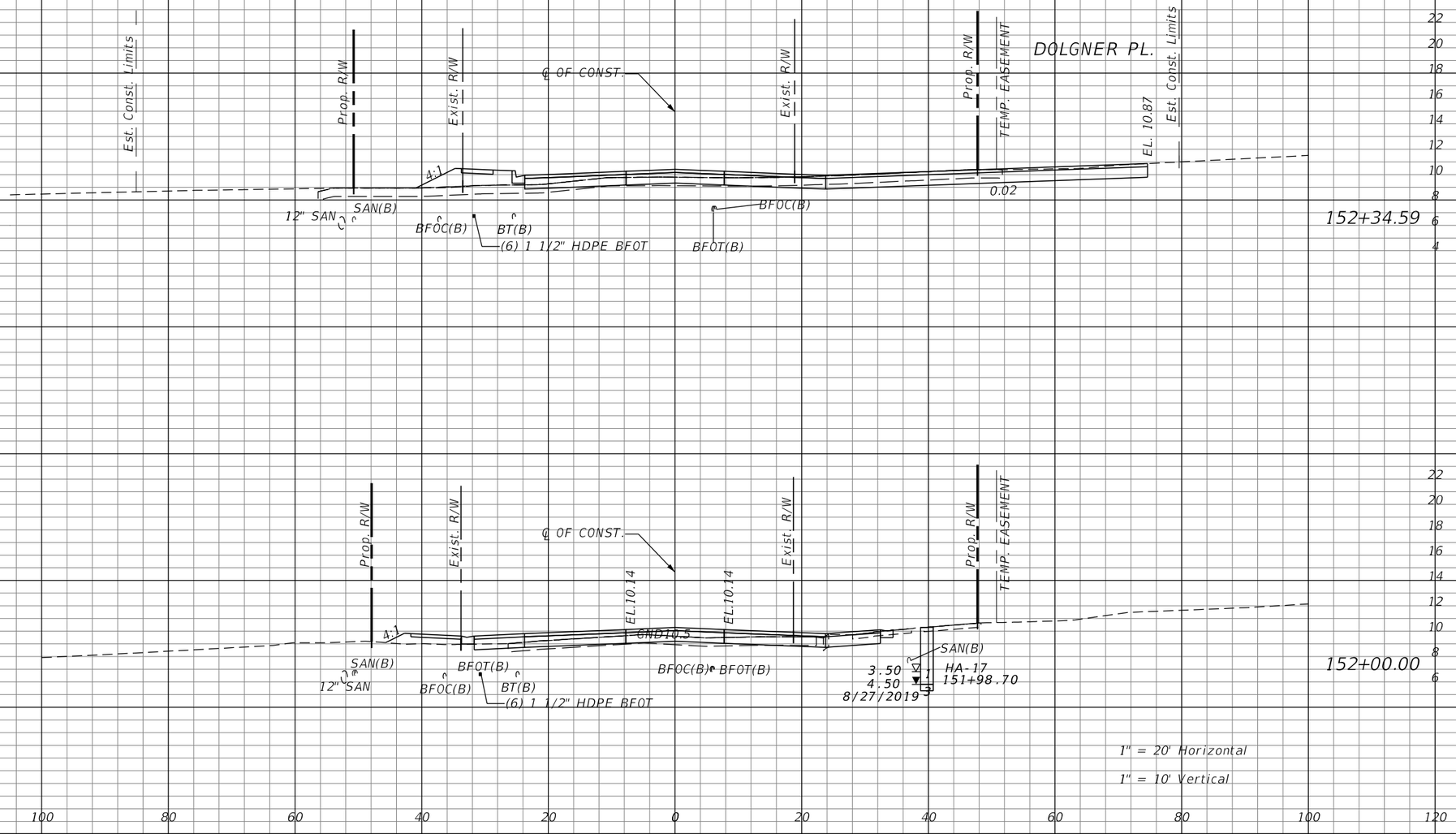
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 255

Regular Exc.		Embankment	
A	V	A	V



37.75

6.05

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

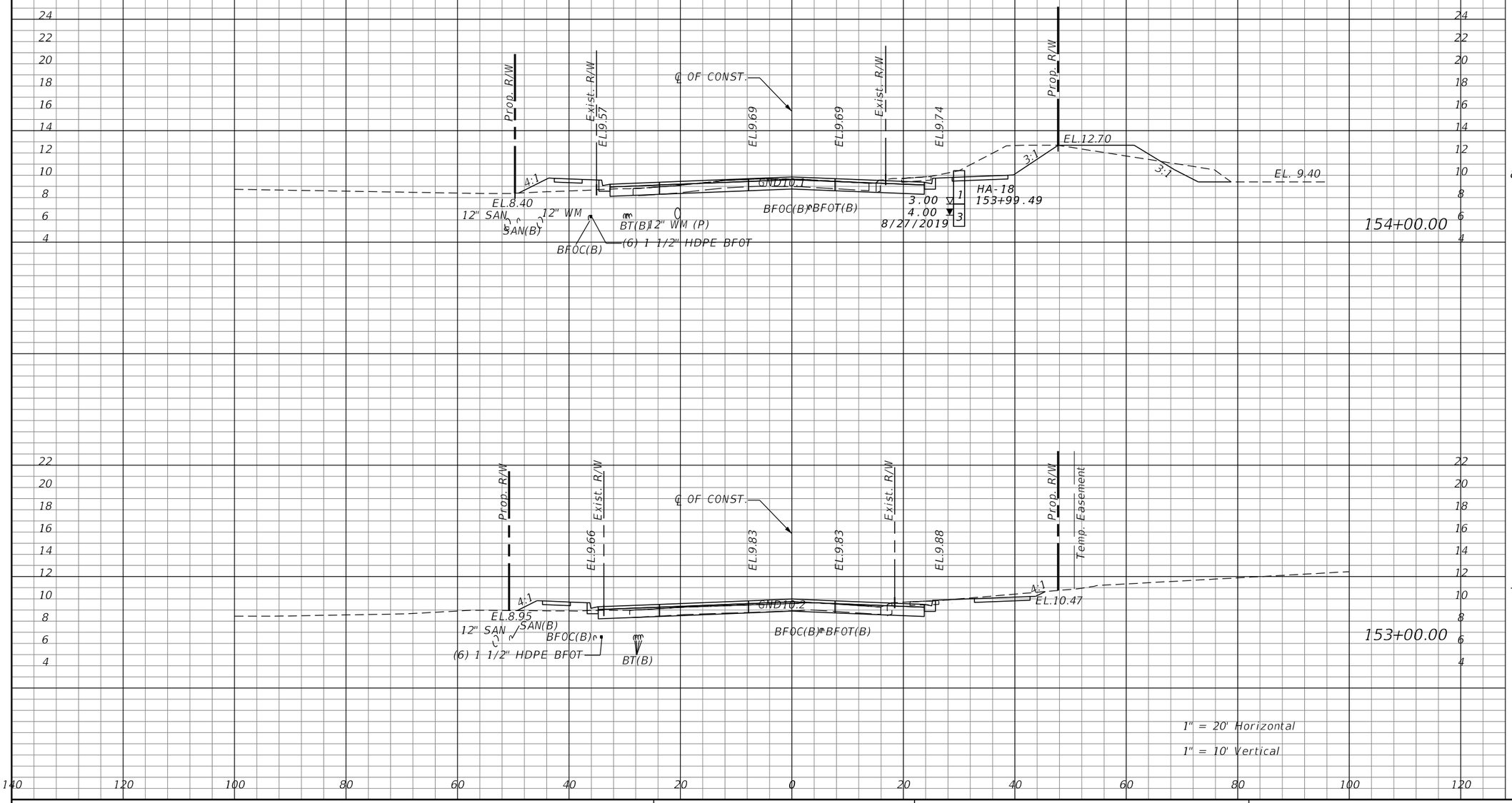
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 256



Regular Exc.		Embankment	
A	V	A	V
86.28	218.5	10.99	91.4
54.56	260.8	7.45	34.2

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

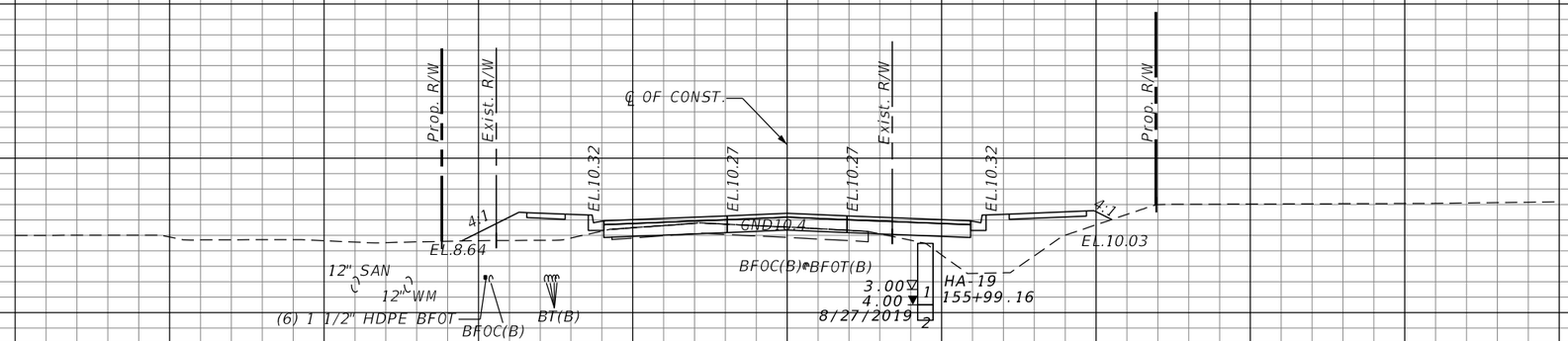
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

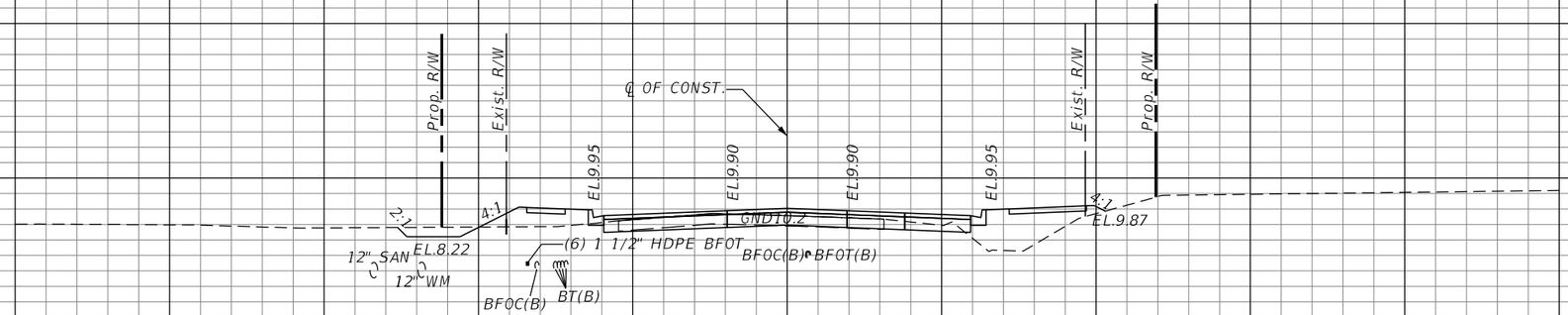
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 257





1" = 20' Horizontal

1" = 10' Vertical

140 120 100 80 60 40 20 0 20 40 60 80 100 120

Regular Exc.		Embankment	
A	V	A	V
14.15	29.0	68.85	282.3
31.7	84.9	38.37	198.6

140 160

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
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JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

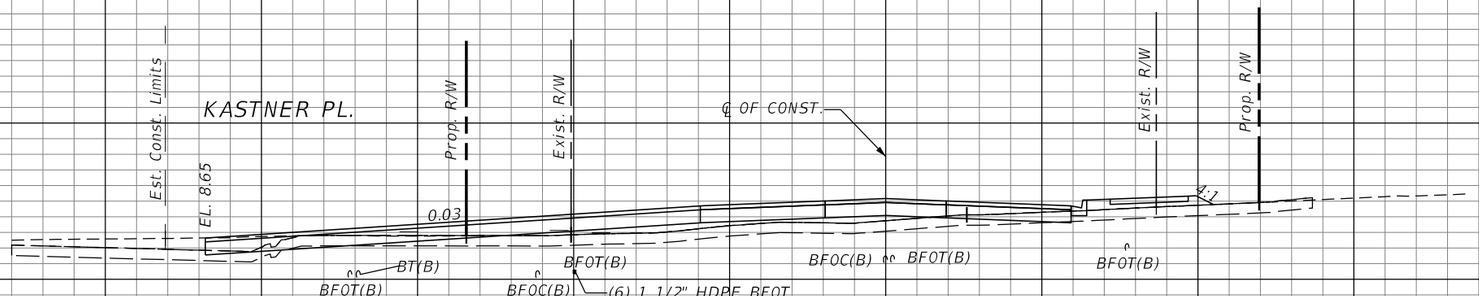
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 258

Regular Exc.		Embankment	
A	V	A	V
1.53		83.6	





1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

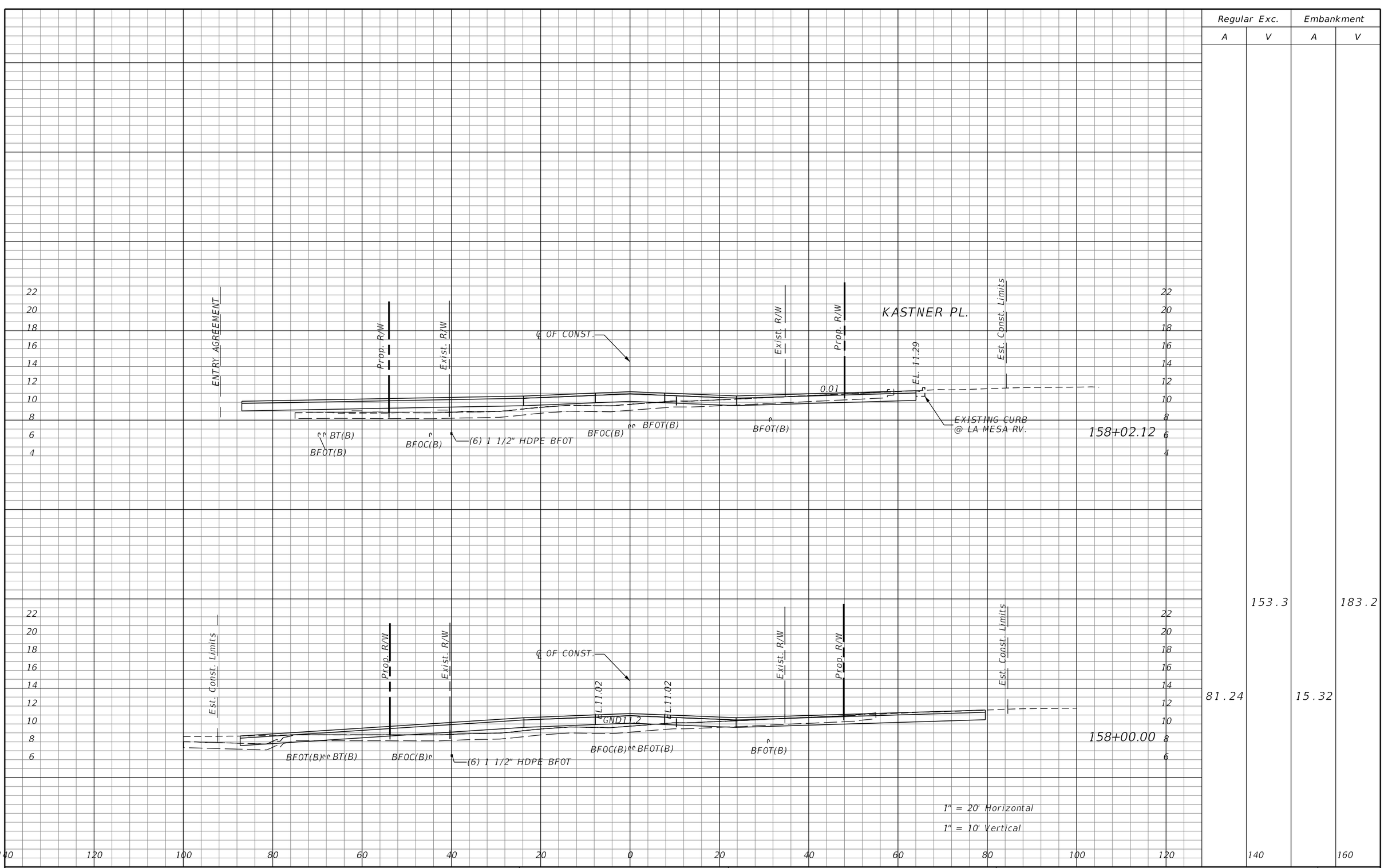
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 259

Regular Exc.		Embankment	
A	V	A	V
		153.3	183.2
		81.24	15.32



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

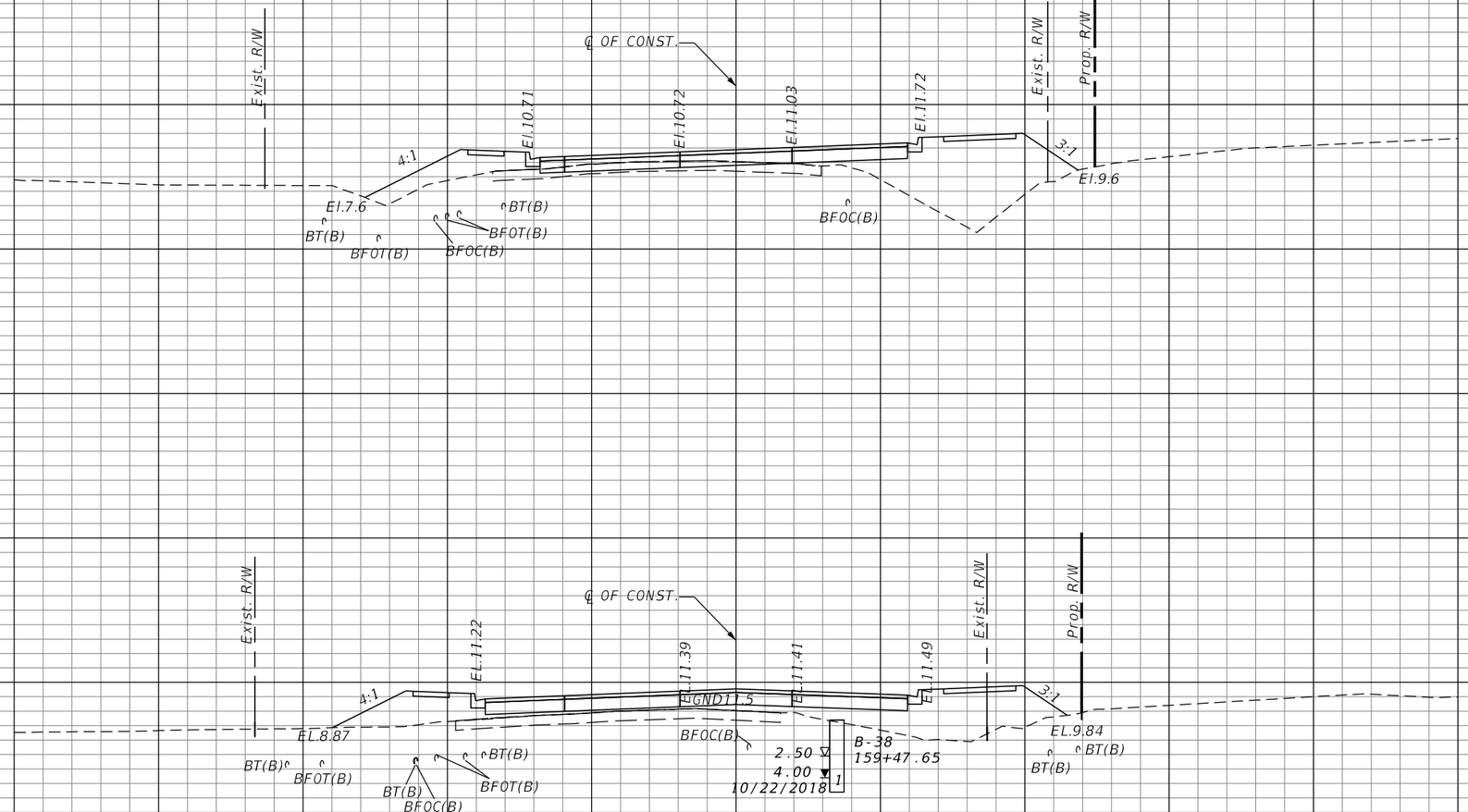
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 260



Regular Exc.		Embankment	
A	V	A	V
	60.4		367.2
12.42		138.69	
	23.0		471.1
0		115.71	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

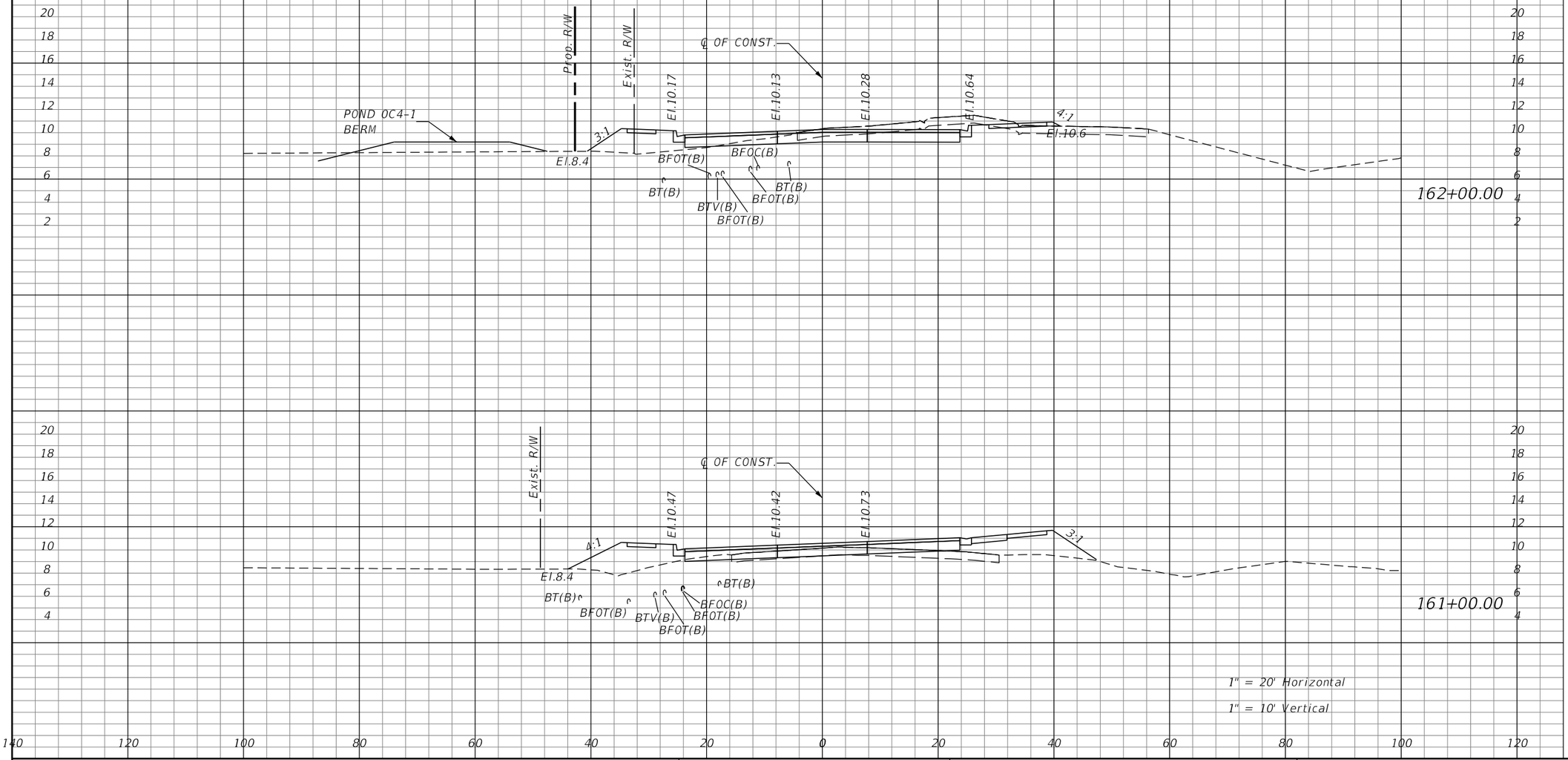
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 261



Regular Exc.		Embankment	
A	V	A	V
	265.9		100.9
58.63		24.73	
	146.0		156.2
20.21		59.61	
	140		160

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

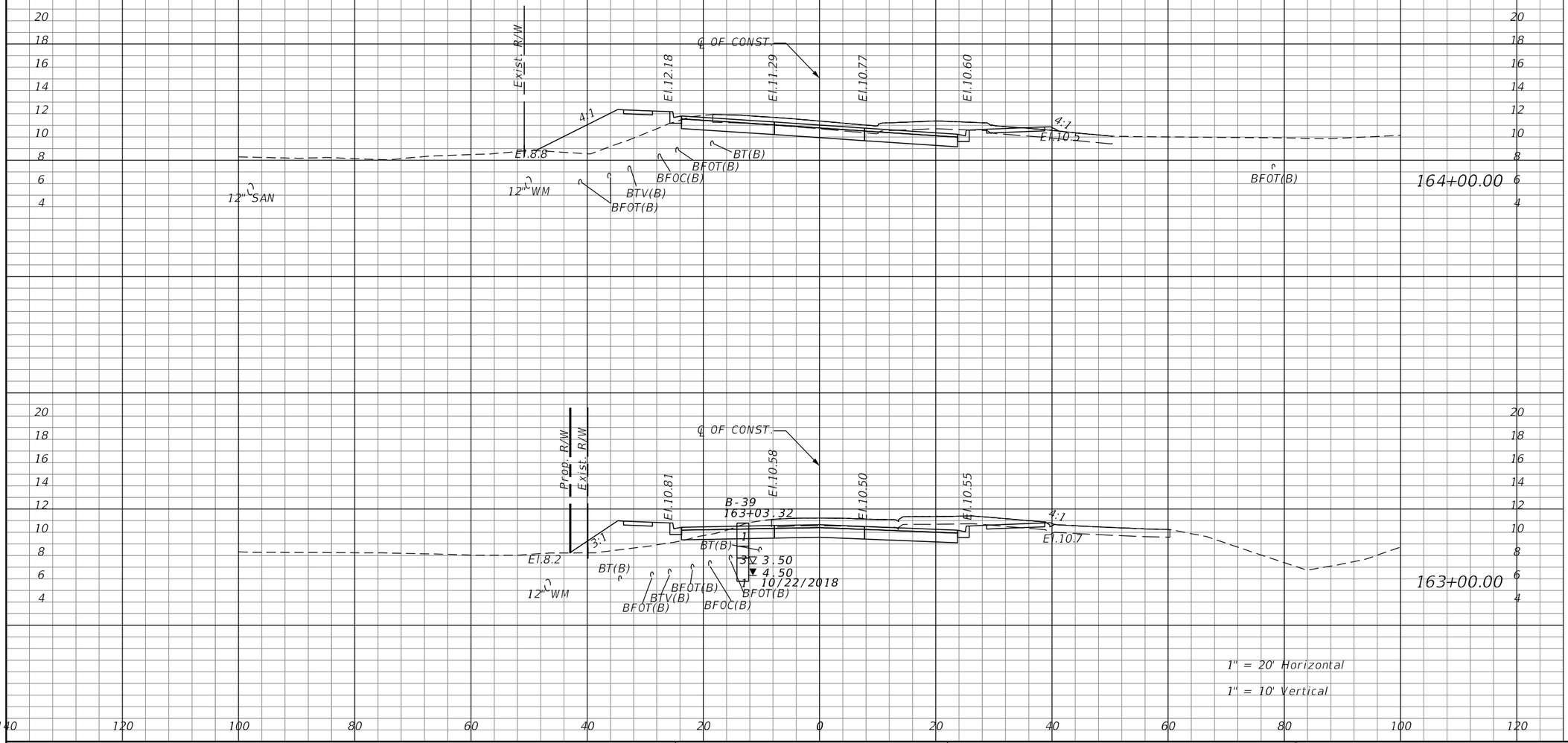
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 262



Regular Exc.		Embankment	
A	V	A	V
	244.9		36.1
82.58		0	
	310.2		55.1
84.95		29.77	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
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JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

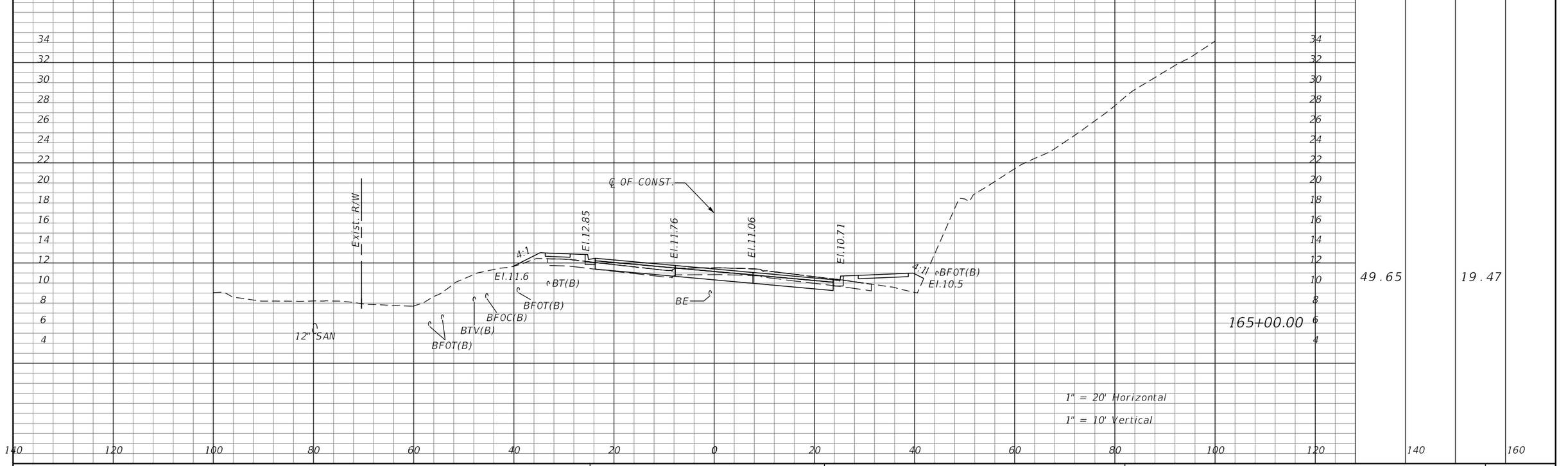
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 263

Regular Exc.		Embankment	
A	V	A	V
	205.8		109.8
49.65		19.47	



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

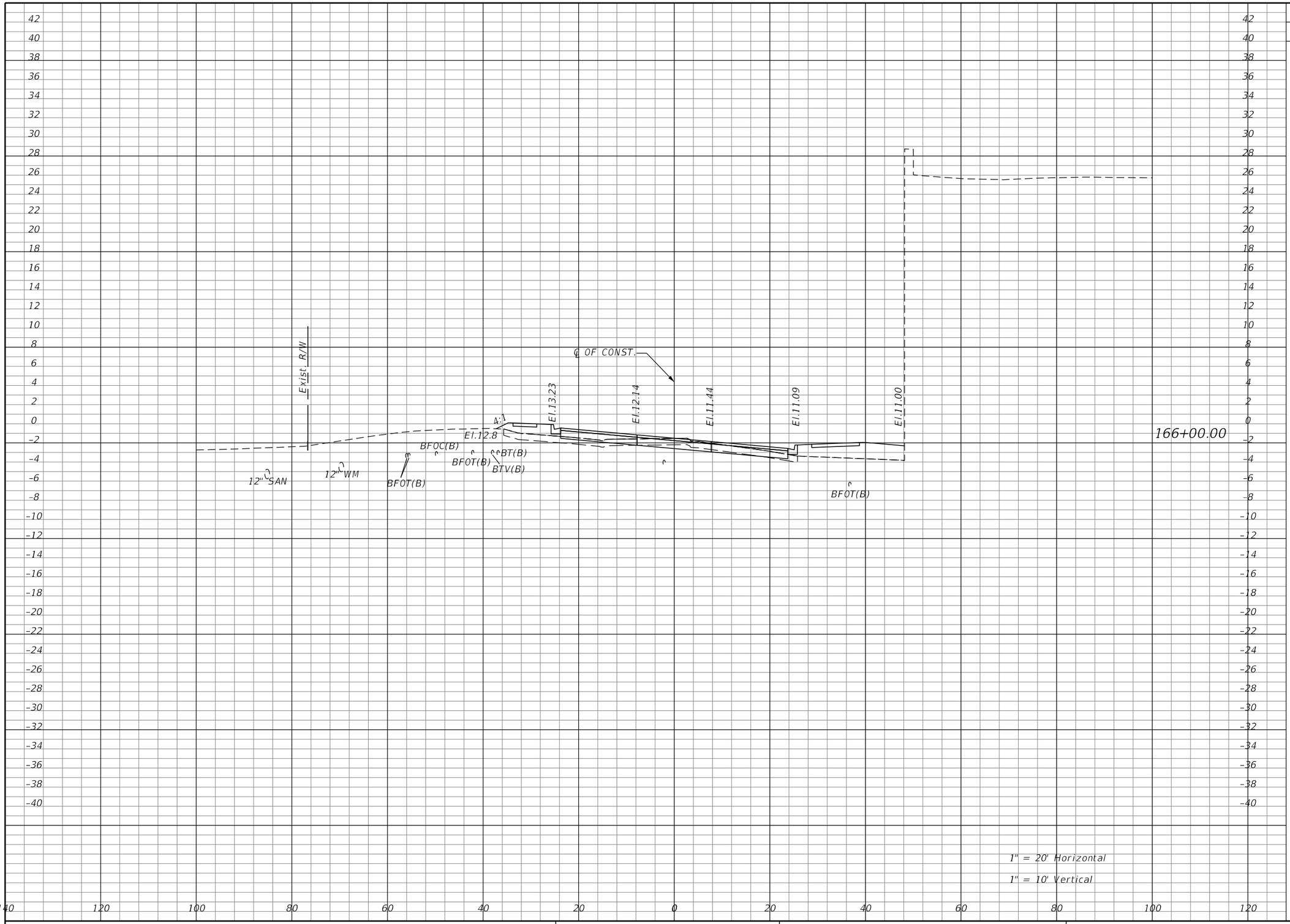
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 264



Regular Exc.		Embankment	
A	V	A	V
61.47		39.8	

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 265

Regular Exc.		Embankment	
A	V	A	V
49.9		25.8	



167+00.00

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

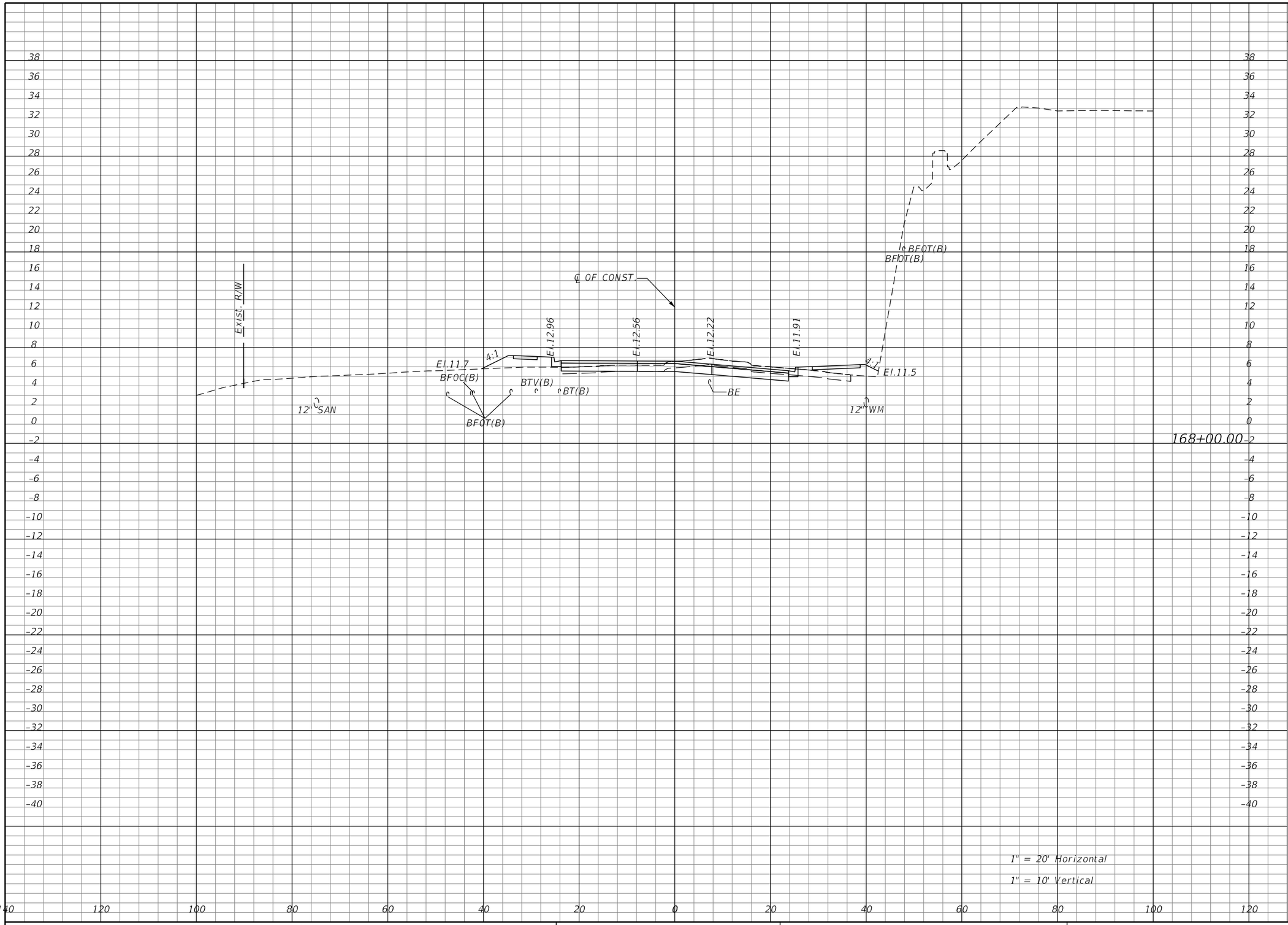
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 266



Regular Exc.		Embankment	
A	V	A	V
50.21		21.66	
185.4		87.9	

REVISIONS

DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 267

Regular Exc.		Embankment	
A	V	A	V
50.05		27.21	



169+00.00

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

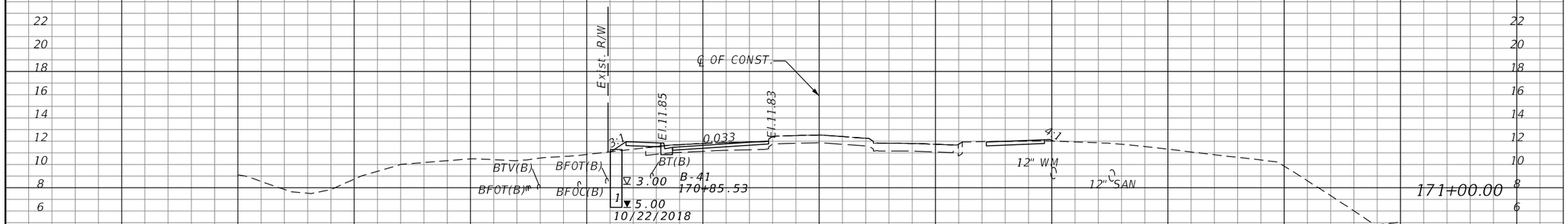
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

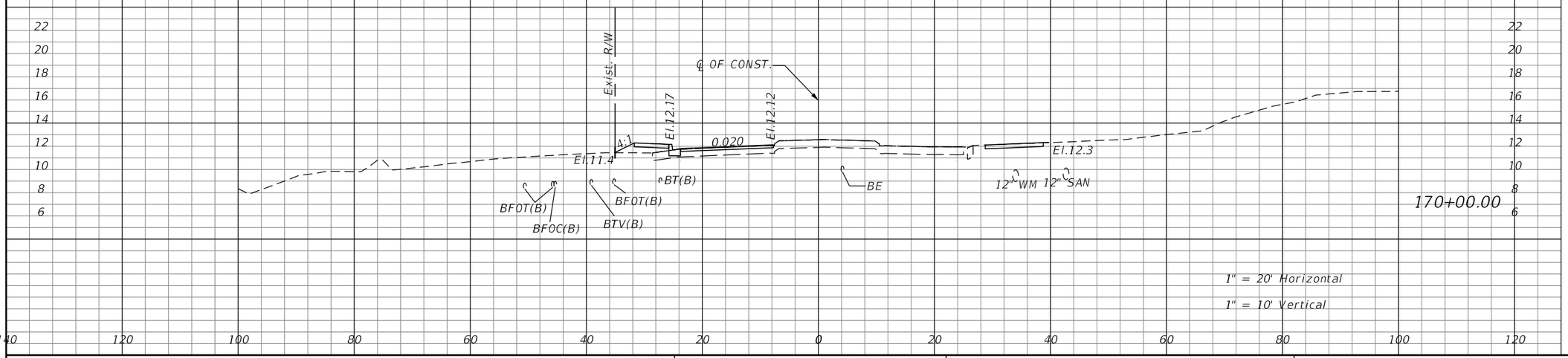
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 268





1" = 20' Horizontal

1" = 10' Vertical

Regular Exc.		Embankment	
A	V	A	V
2.97	8.6	2.44	8.4
3.23	11.5	3.92	11.8

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

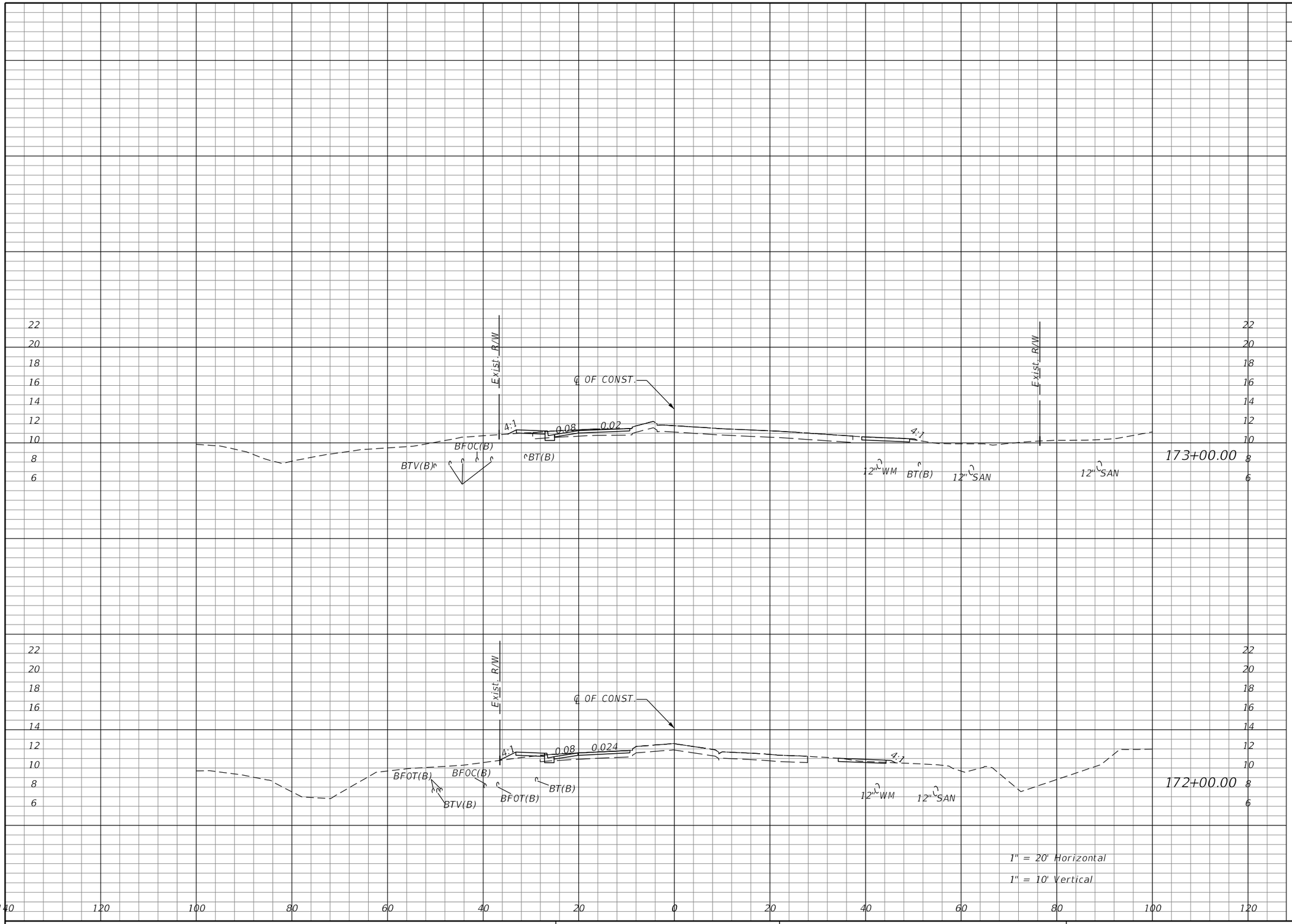
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 269



Regular Exc.		Embankment	
A	V	A	V
3.22	12.4	0.48	5.3
1.66	9.0	2.11	4.8

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

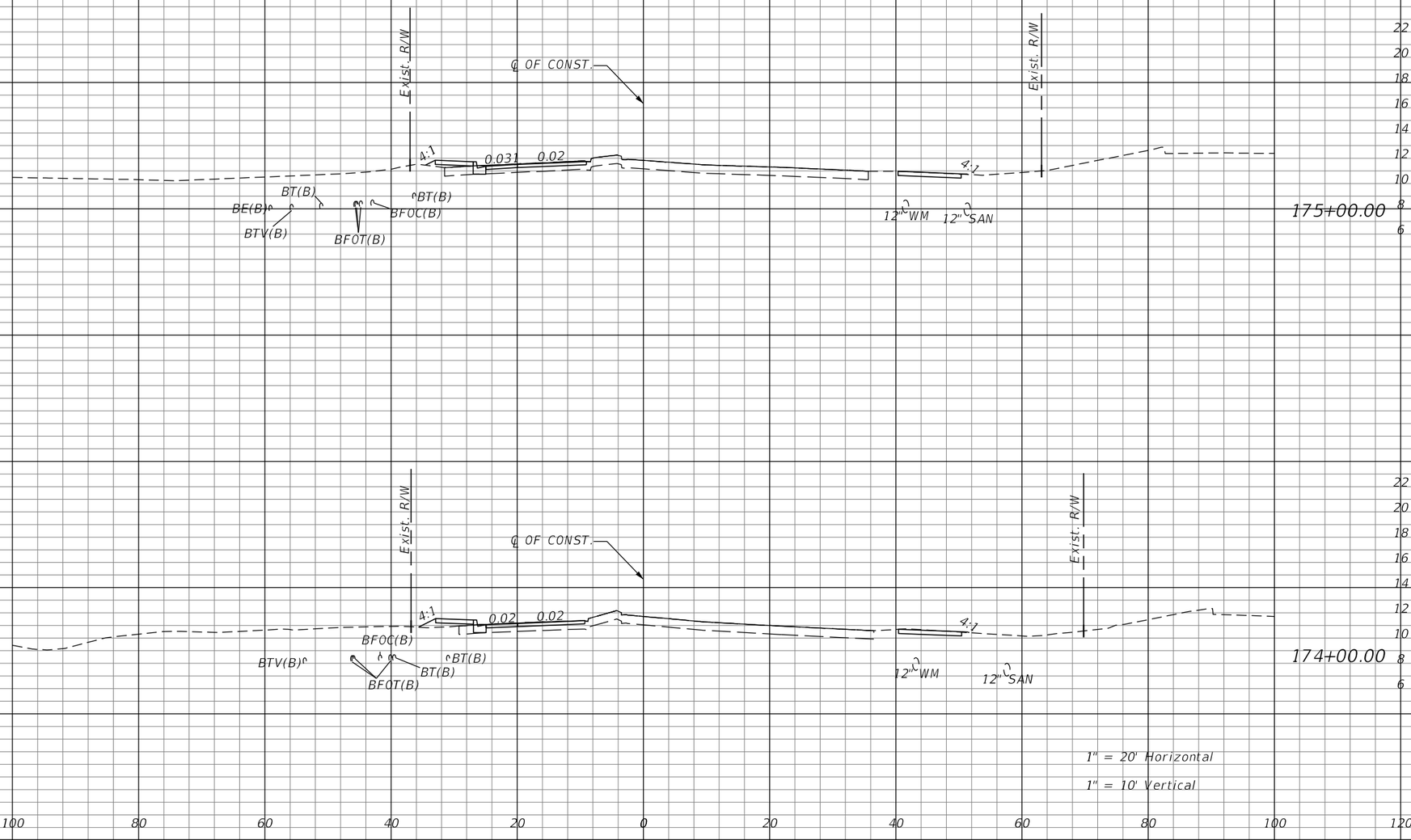
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 270



Regular Exc.		Embankment	
A	V	A	V
3.18	5.9	1.22	2.3
3.49	12.4	2.39	6.7

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

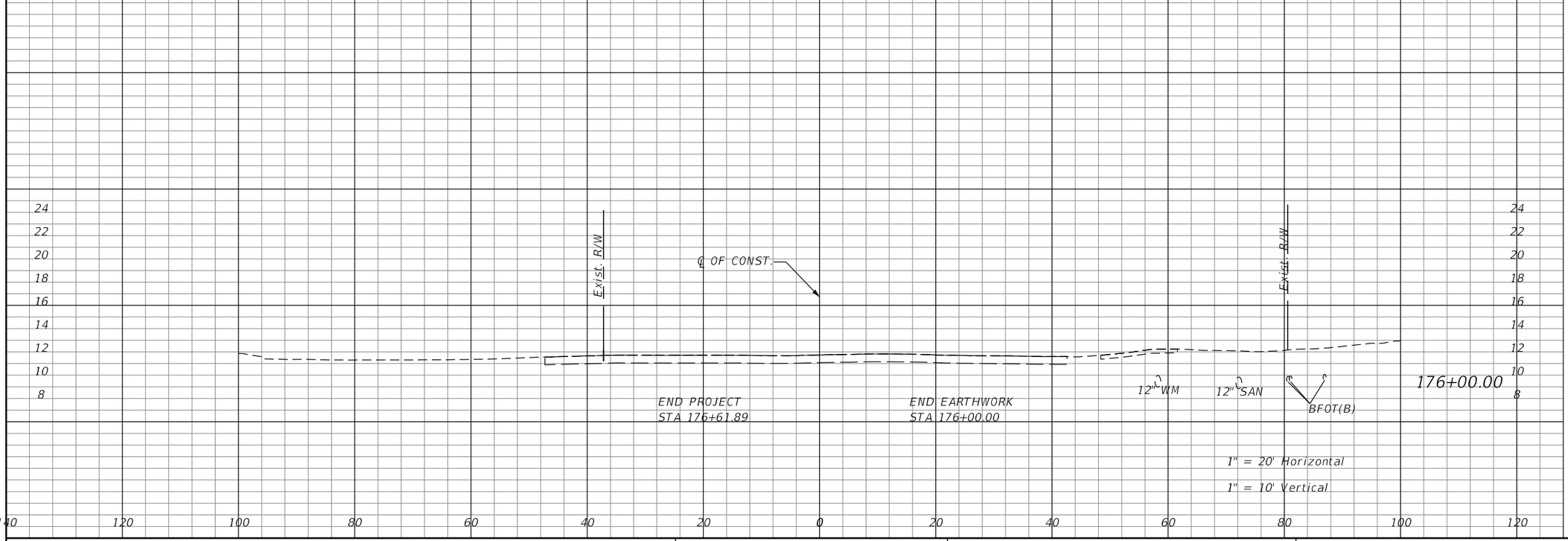
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 271

Regular Exc.		Embankment	
A	V	A	V
0		0	



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

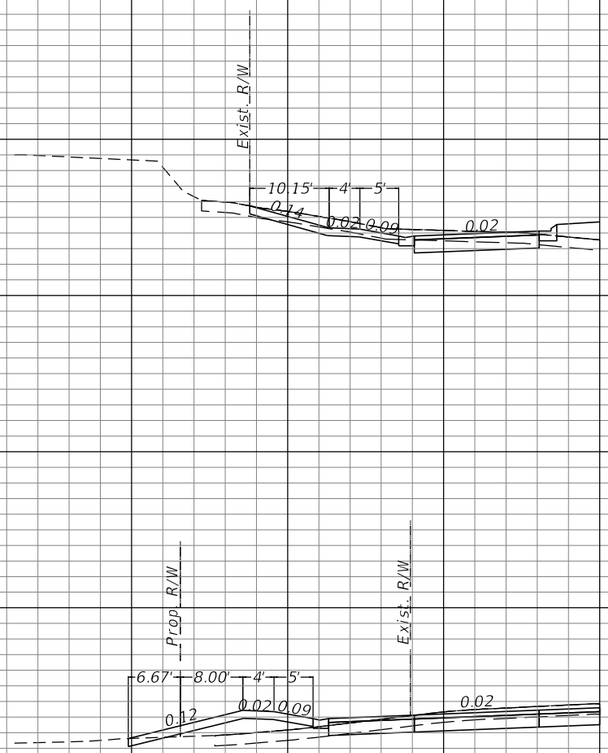
SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS

SHEET NO. 272

Regular Exc.		Embankment	
A	V	A	V



1" = 20' Horizontal

1" = 10' Vertical

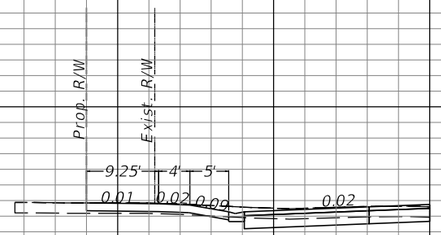
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

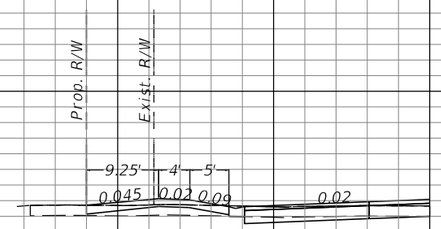
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET NO.

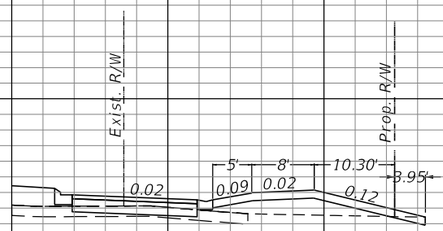
Regular Exc.		Embankment	
A	V	A	V



28+94.01



28+05.17



24+87.85

1" = 20' Horizontal

1" = 10' Vertical

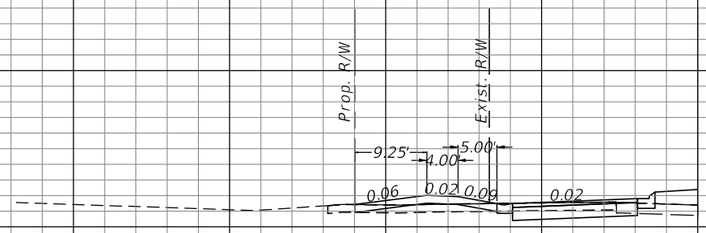
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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

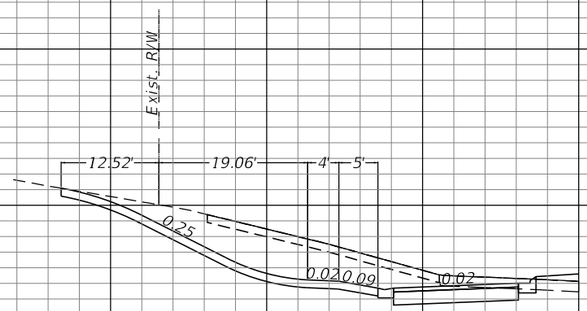
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

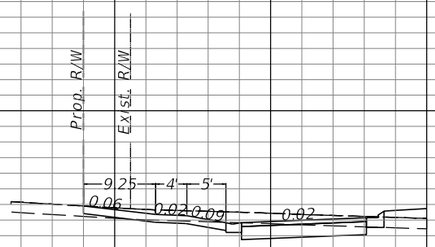
SHEET NO.



35+46.00



31+98.81



30+55.99

Regular Exc.		Embankment	
A	V	A	V

1" = 20' Horizontal

1" = 10' Vertical

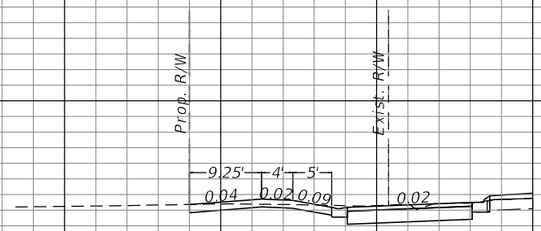
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

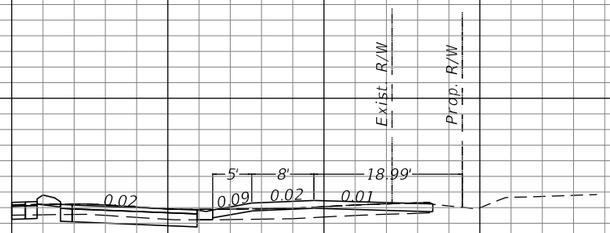
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET NO.

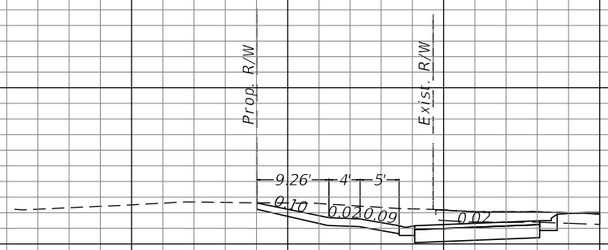
Regular Exc.		Embankment	
A	V	A	V



43+66.84



42+27.23



38+67.67

1" = 20' Horizontal

1" = 10' Vertical

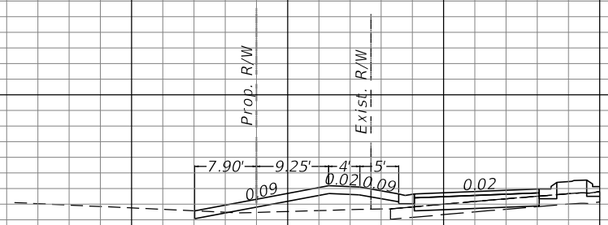
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

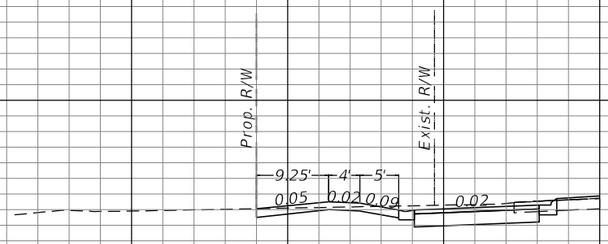
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET NO.

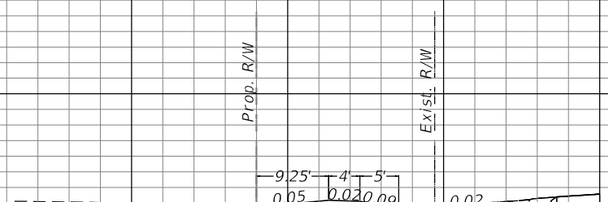
Regular Exc.		Embankment	
A	V	A	V



49+80.86



47+98.29



46+94.98

1" = 20' Horizontal

1" = 10' Vertical

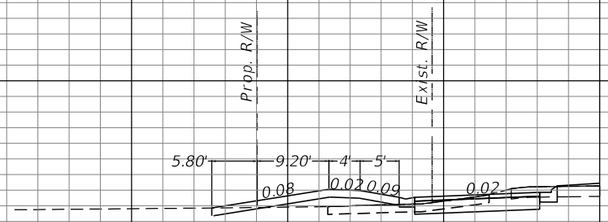
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

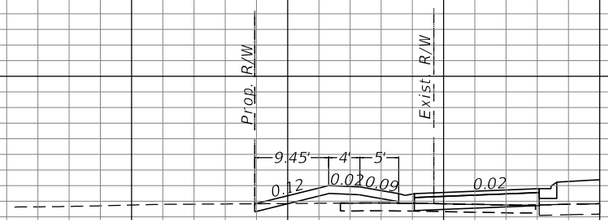
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET NO.

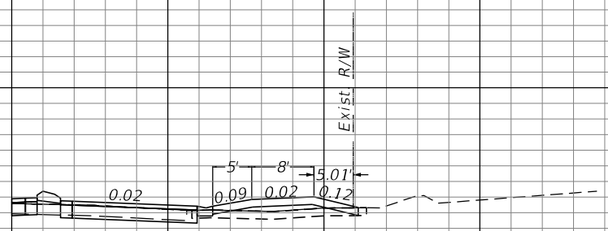
Regular Exc.		Embankment	
A	V	A	V



62+08.66



57+95.16



53+87.33

1" = 20' Horizontal

1" = 10' Vertical

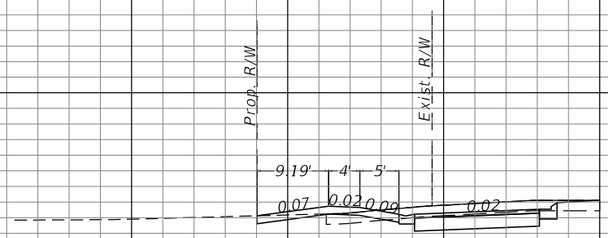
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET NO.

Regular Exc.		Embankment	
A	V	A	V



64+03.62

38 36 34 32 30 28 26

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160

1" = 20' Horizontal

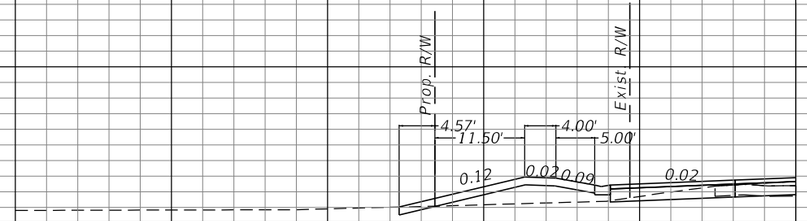
1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET NO.



Regular Exc.		Embankment	
A	V	A	V

72+81.96

1" = 20' Horizontal

1" = 10' Vertical

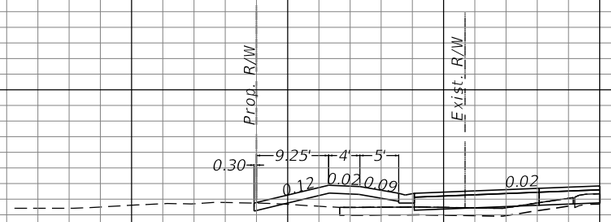
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

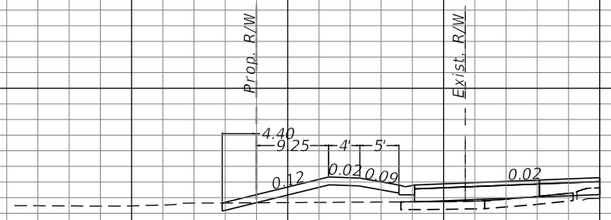
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET NO.

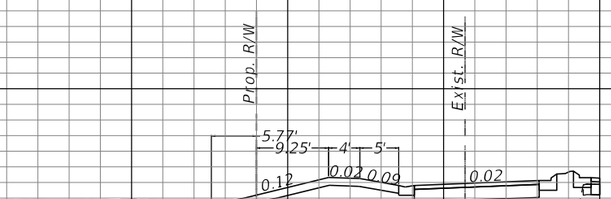
Regular Exc.		Embankment	
A	V	A	V



89+37.16



88+74.17



85+86.92

1" = 20' Horizontal

1" = 10' Vertical

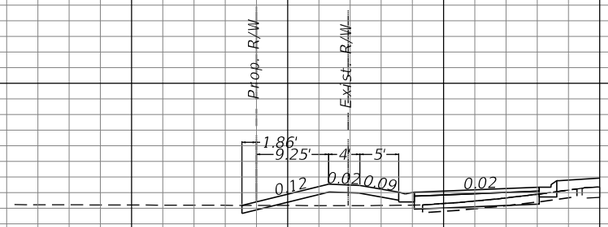
REVISIONS			
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STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET NO.

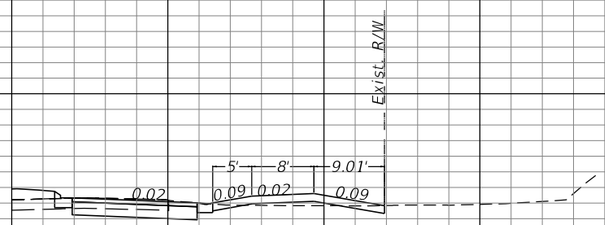
Regular Exc.		Embankment	
A	V	A	V



92+23.92



93+57.94



90+07.07

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

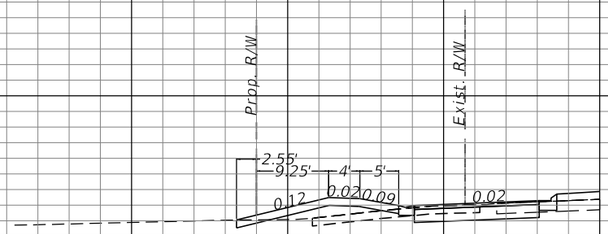
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

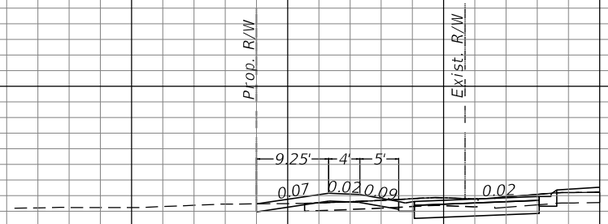
SHEET NO.

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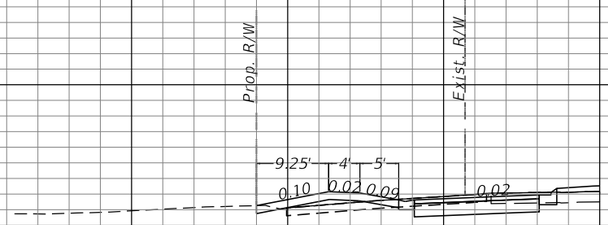
Regular Exc.		Embankment	
A	V	A	V



97+39.08



96+25.92



95+71.81

1" = 20' Horizontal

1" = 10' Vertical

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160

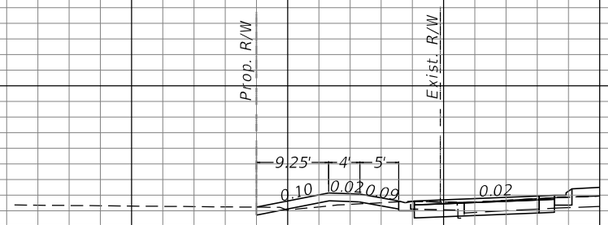
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

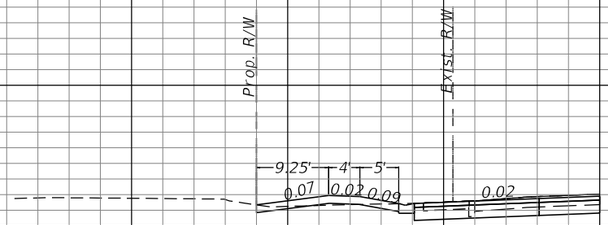
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET NO.

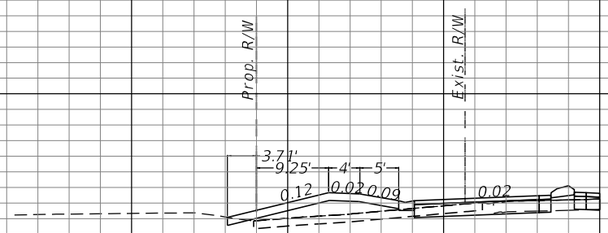
Regular Exc.		Embankment	
A	V	A	V



103+22.76



102+59.87



98+98.43

1" = 20' Horizontal

1" = 10' Vertical

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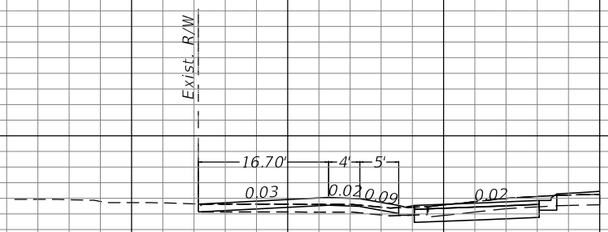
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

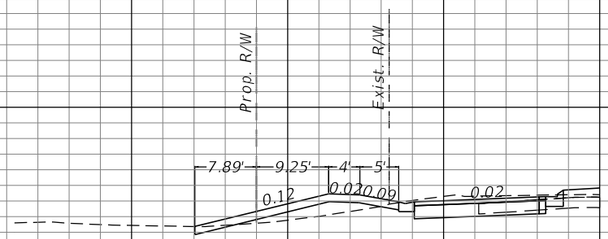
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET NO.

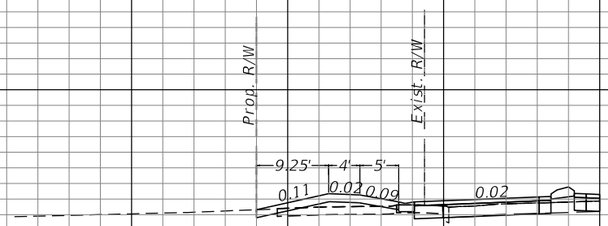
Regular Exc.		Embankment	
A	V	A	V



115+88.78



111+16.11



103+91.86

1" = 20' Horizontal

1" = 10' Vertical

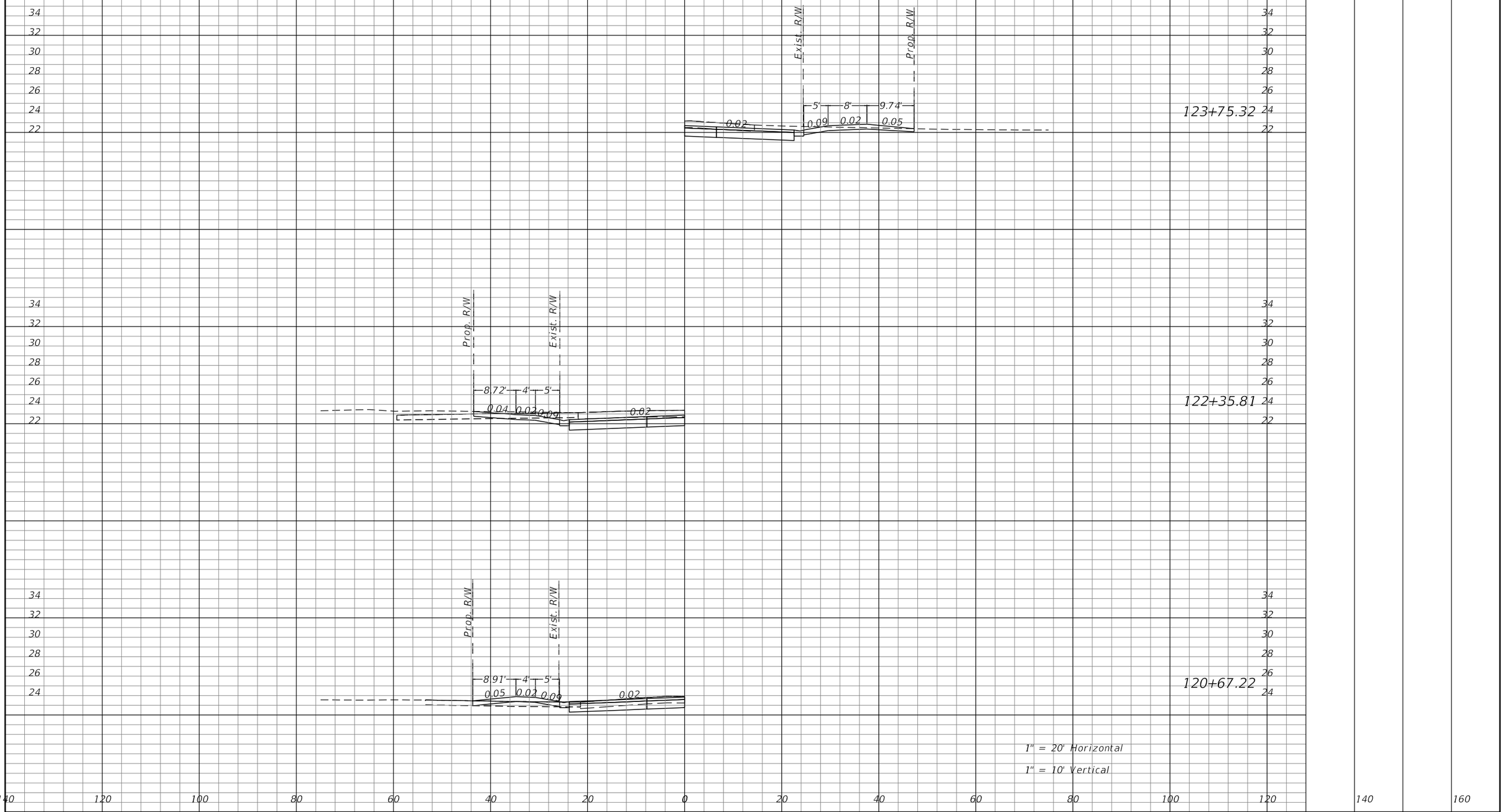
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET NO.

Regular Exc.		Embankment	
A	V	A	V



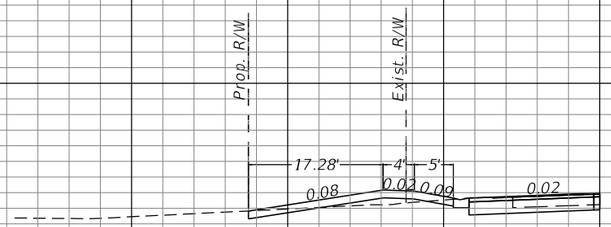
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

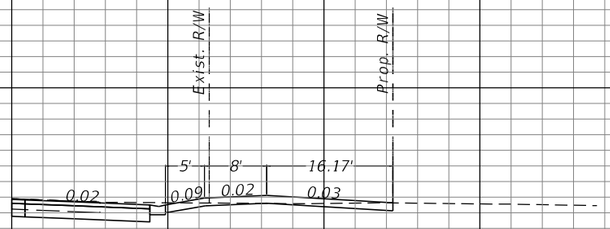
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

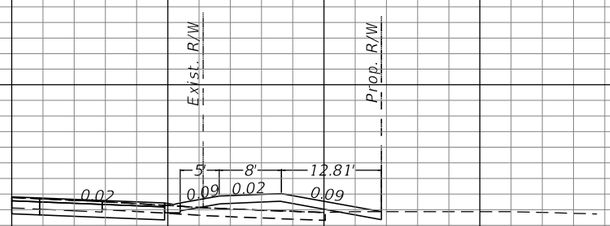
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET NO.

Regular Exc.		Embankment	
A	V	A	V







34 32 30 28 26 24 22

127+15.74

125+23.94

124+51.69

1" = 20' Horizontal

1" = 10' Vertical

140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160

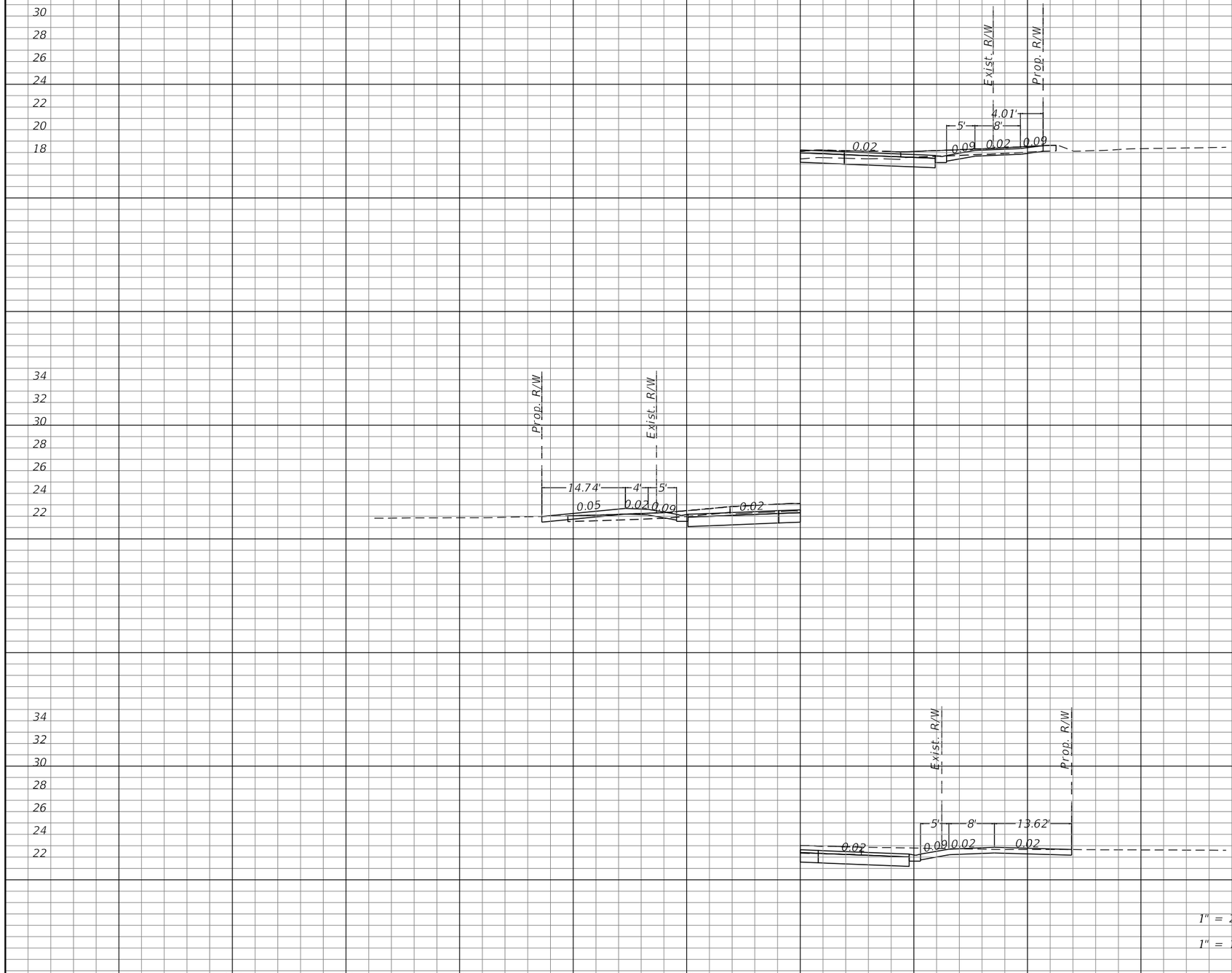
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET NO.

Regular Exc.		Embankment	
A	V	A	V



1" = 20' Horizontal

1" = 10' Vertical

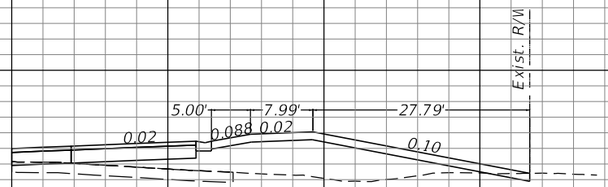
REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

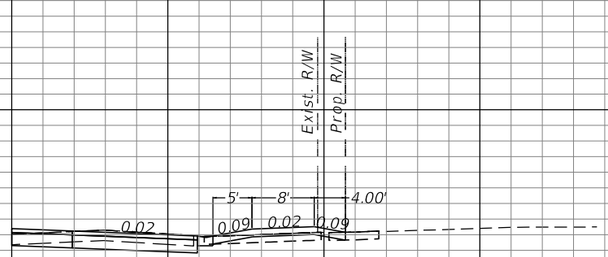
ROAD NO.	COUNTY	FINANCIAL PROJECT ID

SHEET NO.

Regular Exc.		Embankment	
A	V	A	V



160+87.56



140+58.42

1" = 20' Horizontal

1" = 10' Vertical

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

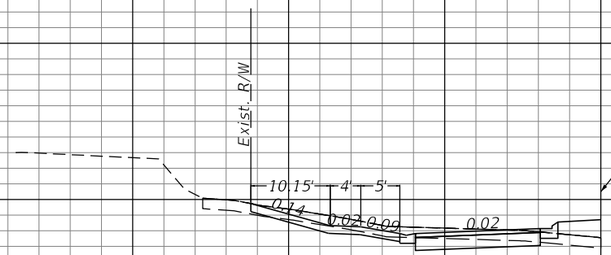
STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID

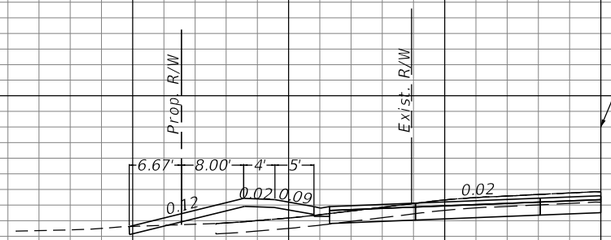
SHEET NO.



24+35.46



21+87.31



12+72.34

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

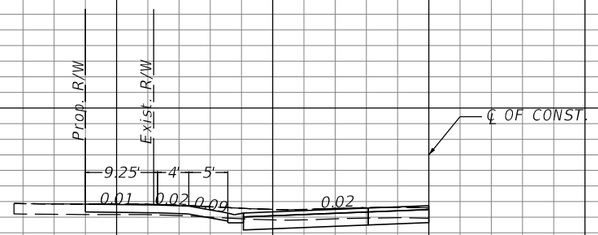
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

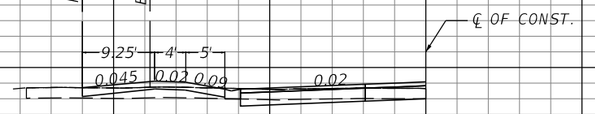
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

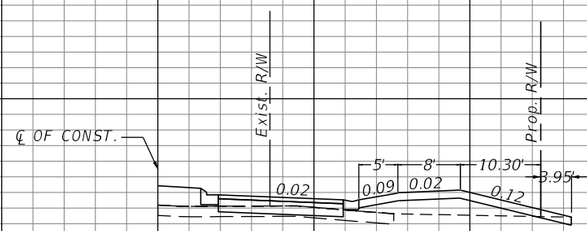
SHEET NO. 273



28+94.01



28+05.17



24+87.85

1" = 20' Horizontal

1" = 10' Vertical

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REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

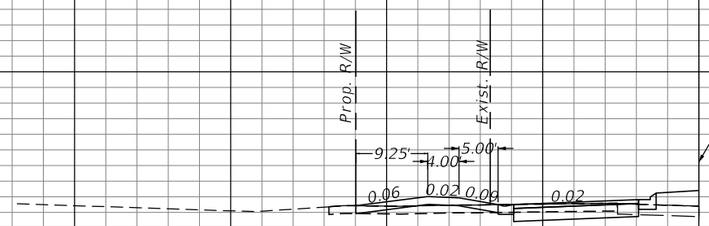
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

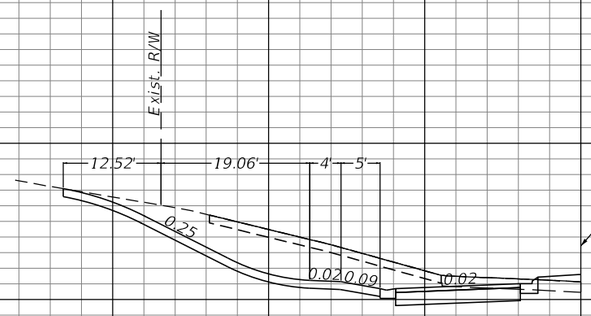
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

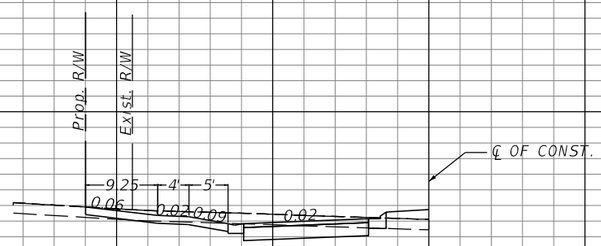
SHEET NO. 274



35+46.00



31+98.81



30+55.99

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

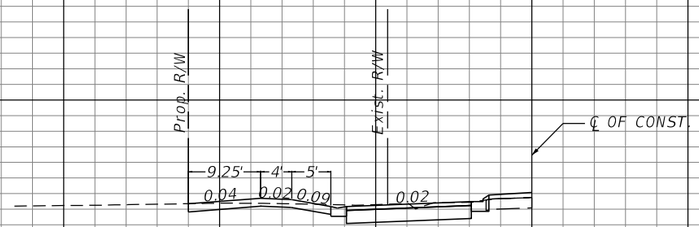
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

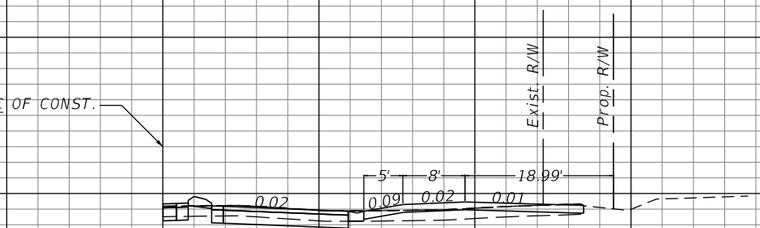
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

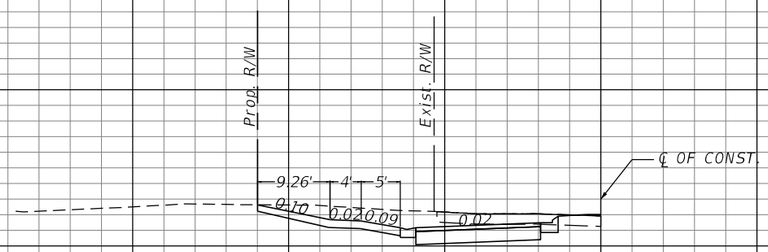
SHEET NO. 275



43+66.84



42+27.23



38+67.67

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

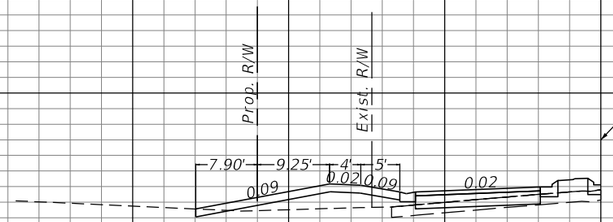
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

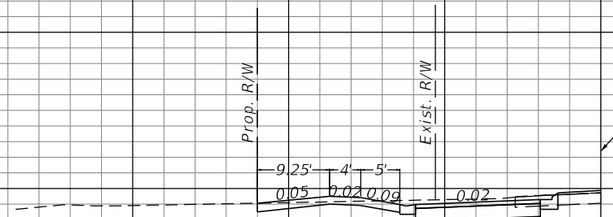
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

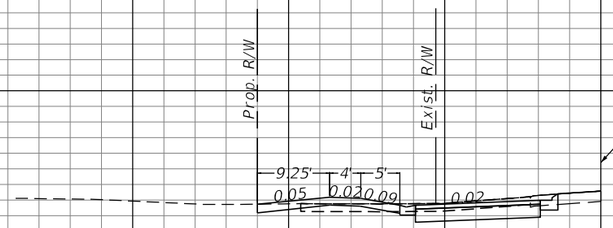
SHEET NO. 276



49+80.86



47+98.29



46+94.98

1" = 20' Horizontal

1" = 10' Vertical

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

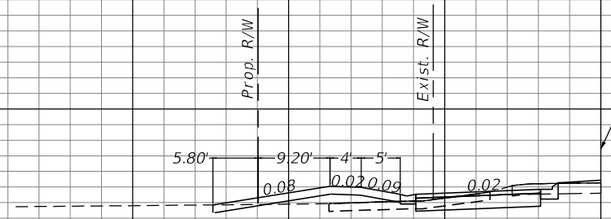
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

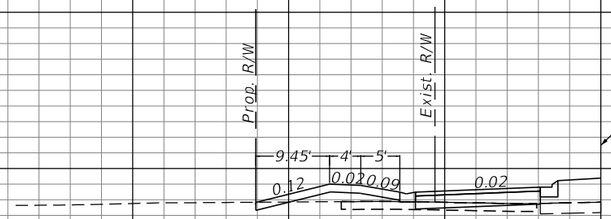
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

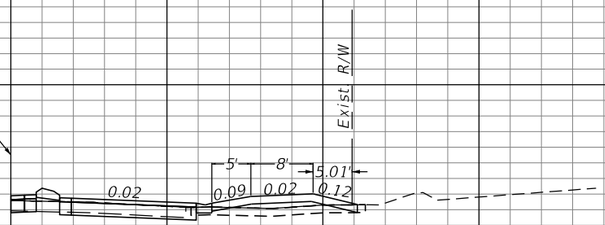
SHEET NO. 277



62+08.66



57+95.16



53+87.33

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

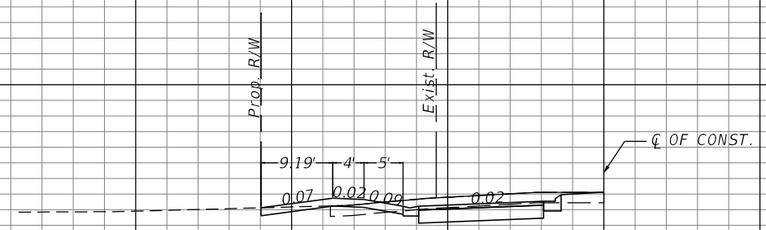
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

SHEET NO. 278



64+03.62

1" = 20' Horizontal

1" = 10' Vertical

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

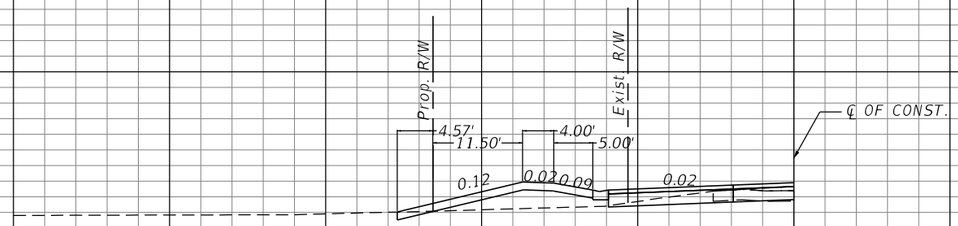
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

SHEET NO. 279



72+81.96

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

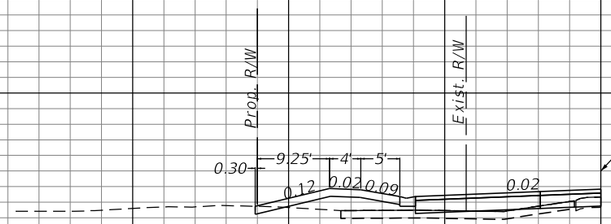
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

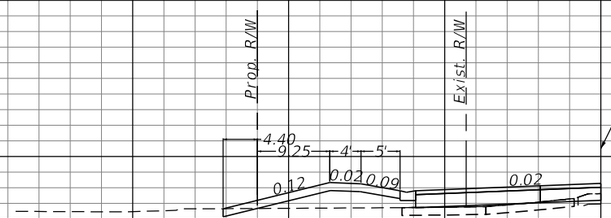
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

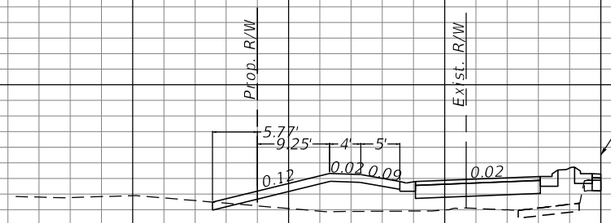
SHEET NO. 280



89+37.16



88+74.17



85+86.92

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

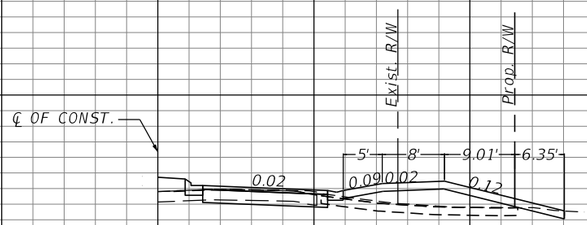
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

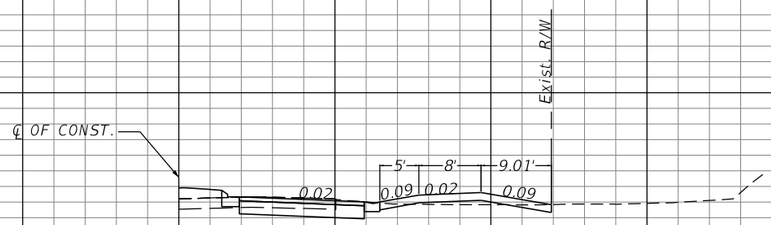
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

SHEET NO. 281



93+57.94



90+07.07

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

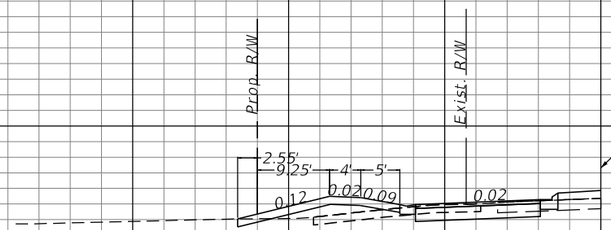
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

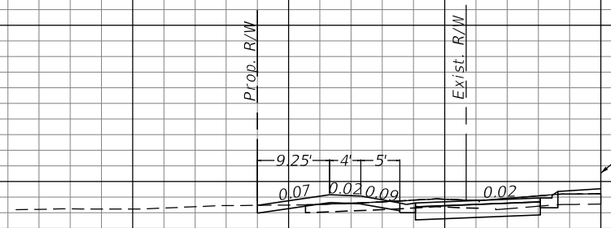
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

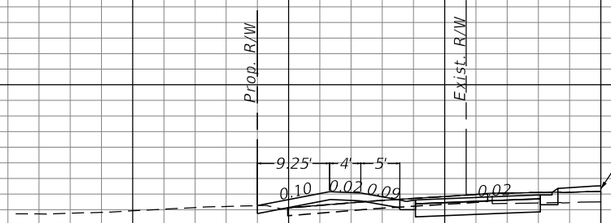
SHEET NO. 282



97+39.08



96+25.92



95+71.81

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

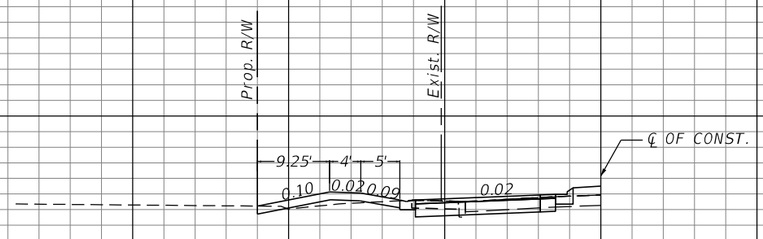
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

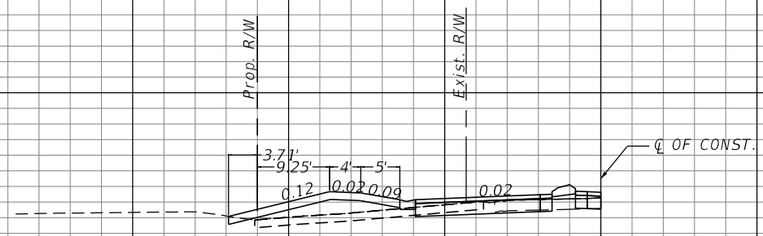
SHEET NO. 283



103+22.76



102+59.87



98+98.43

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

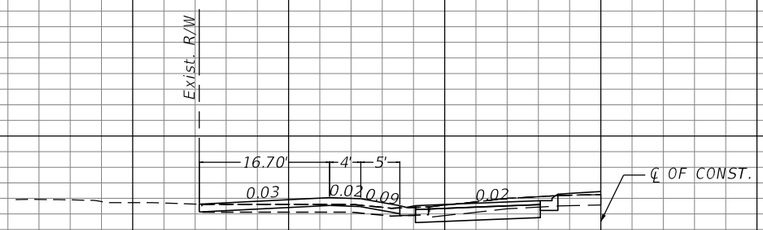
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

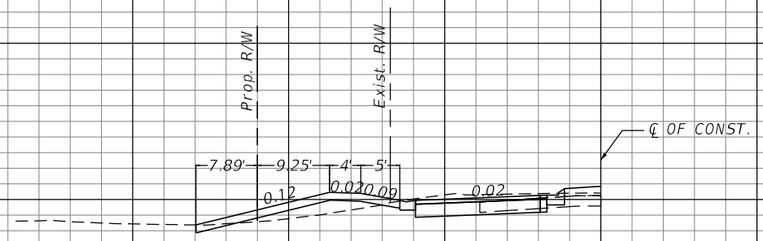
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

SHEET NO. 284



115+88.78



111+16.11



103+91.86

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

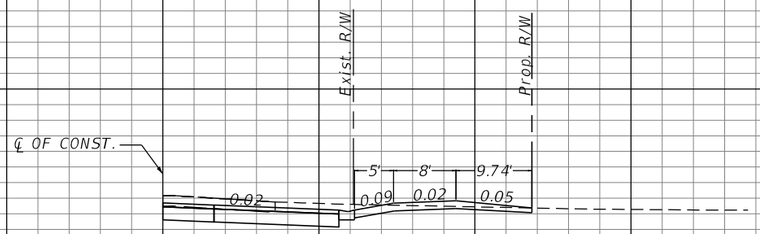
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

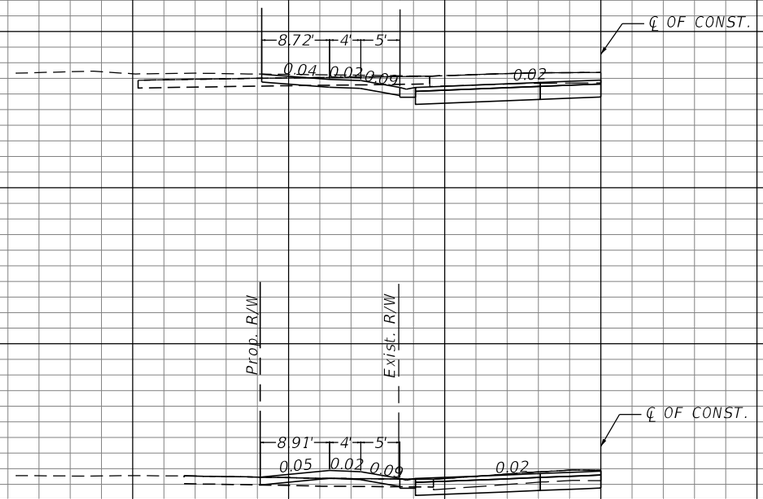
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

SHEET NO. 285



123+75.32



122+35.81

120+67.22

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

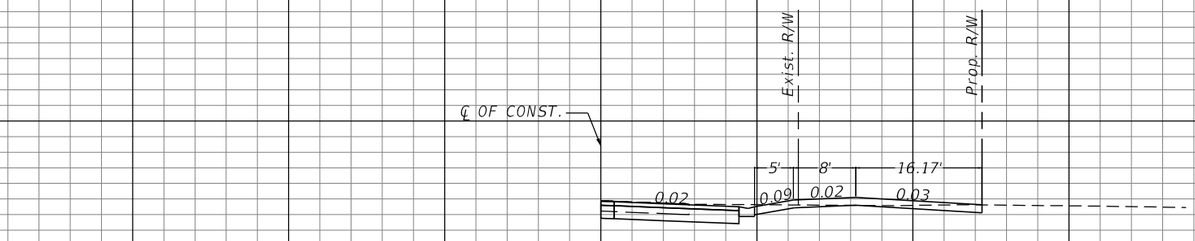
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

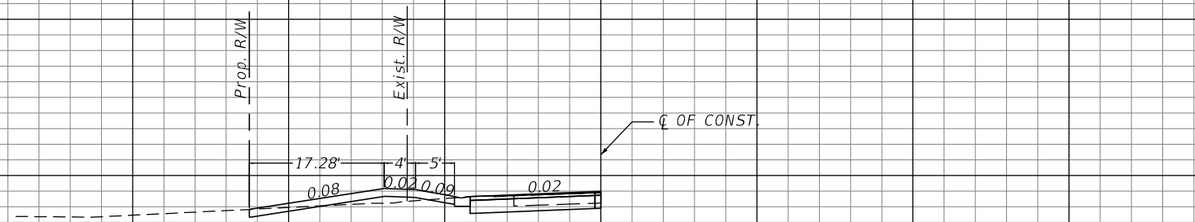
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

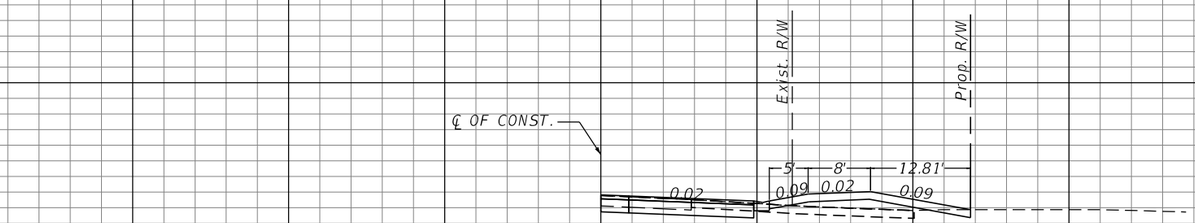
SHEET NO. 286



127+15.74



125+23.94



124+51.69

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

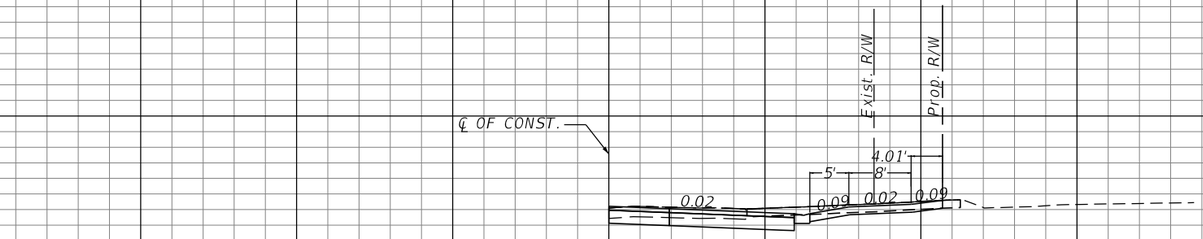
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

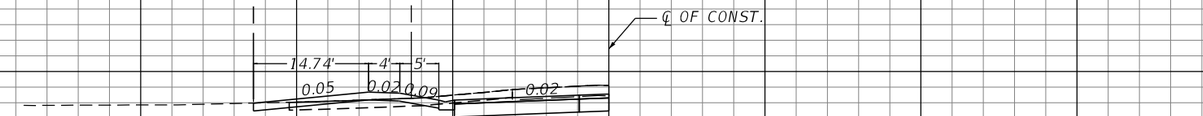
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

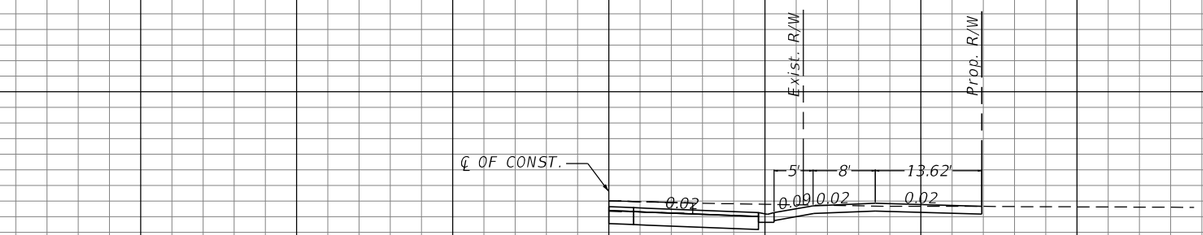
SHEET NO. 287



138+76.80



127+96.45



127+72.46

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

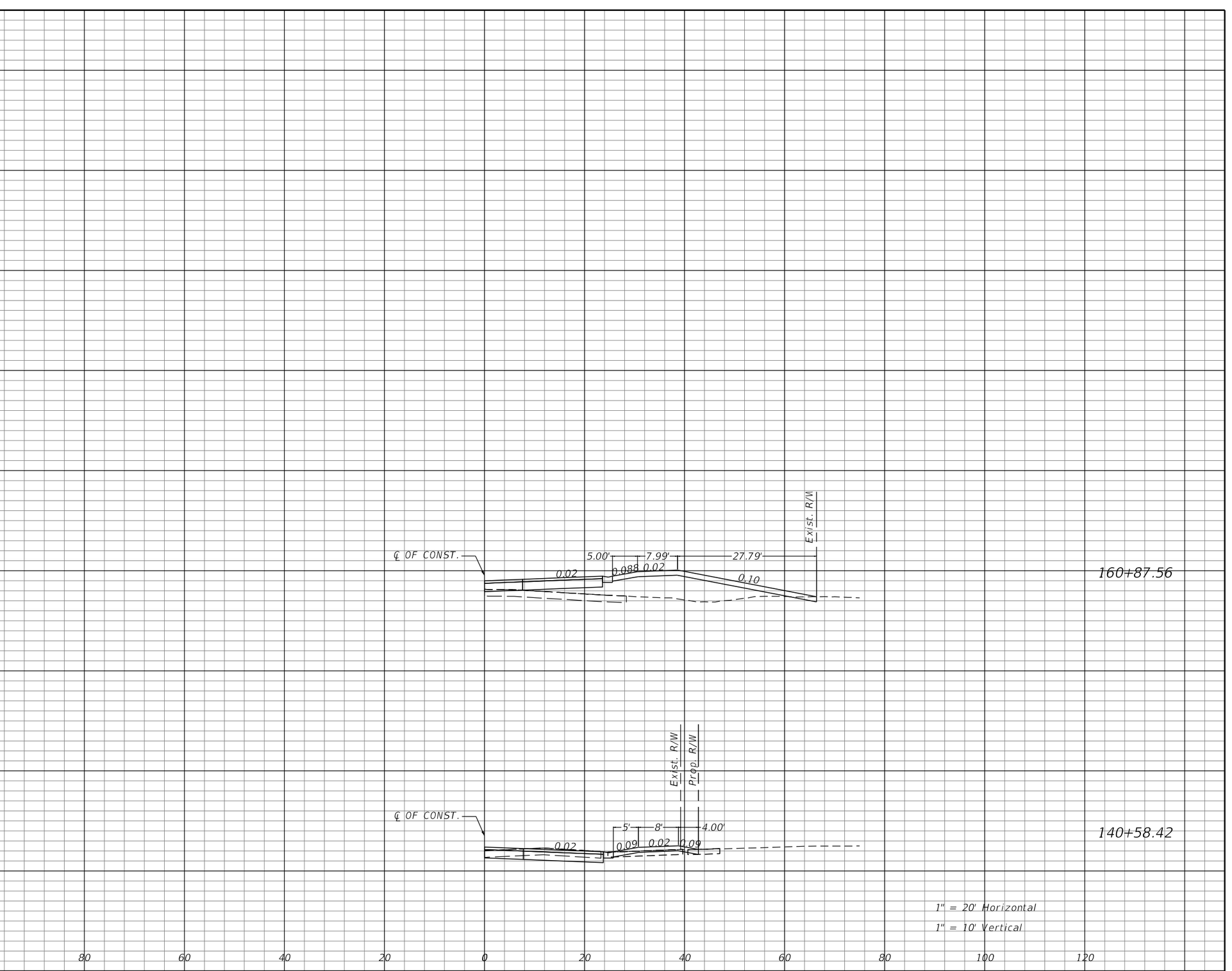
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

SHEET NO. 288



REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

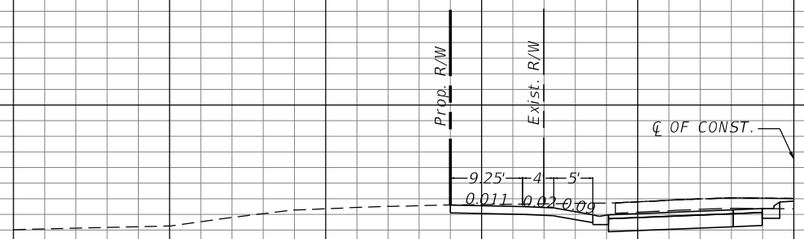
JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

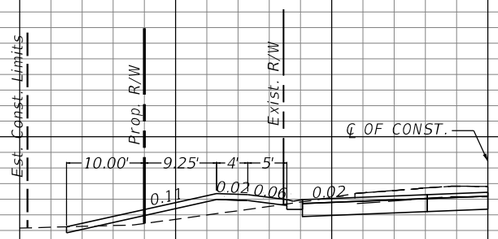
ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

SHEET NO. 289



17+00.00



14+65.82

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

160 140 120 100 80 60 40 20 0 20 40 60 80 100 120

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

JASON R. FLICK, P.E.
P.E. LICENSE NUMBER 74741
JMT - JOHNSON, MIRMIRAN & THOMPSON
400 COLONIAL CENTER PKWY., SUITE 100
LAKE MARY, FL 32746
CERTIFICATE OF AUTHORIZATION NO.: 5917

SEMINOLE COUNTY PUBLIC WORKS

ROAD NO.	COUNTY	SEMINOLE COUNTY CIP
CR 431	SEMINOLE	01785303

ROADWAY CROSS-SECTIONS (DRIVEWAYS)

SHEET NO. 289A