

TOWN OF BELLEAIR
DEPARTMENT OF PUBLIC WORKS



TOWN OF BELLEAIR

CONTRACT PLANS

BAYVIEW DRIVE
STREET AND DRAINAGE IMPROVEMENTS

INDEX OF CONSTRUCTION PLANS

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END PROJECT
STA. 126+24.08 @ CONST. BAYVIEW DR.

BEGIN CONSTRUCTION
STA. 30+10.92 @ OCALA RD.

BEGIN CONSTRUCTION
STA. 20+10.50 @ SARASOTA RD.

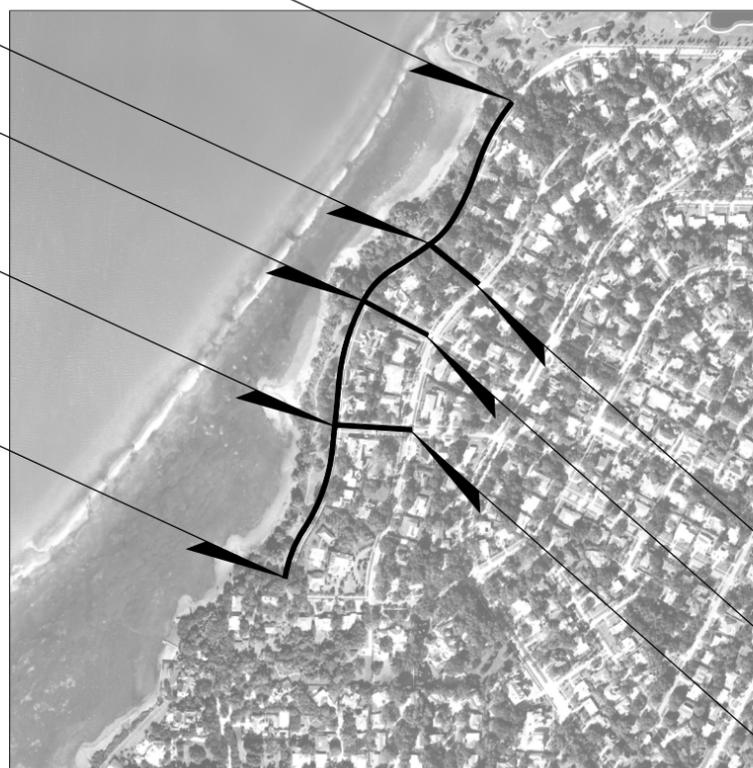
BEGIN CONSTRUCTION
STA. 10+10.50 @ ORLANDO RD.

BEGIN PROJECT
STA. 100+80.00 @ CONST. BAYVIEW DR.

END CONSTRUCTION
STA. 33+47.47 @ OCALA RD.

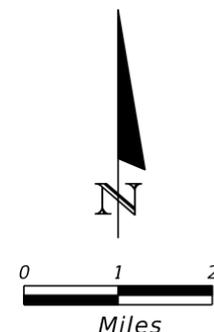
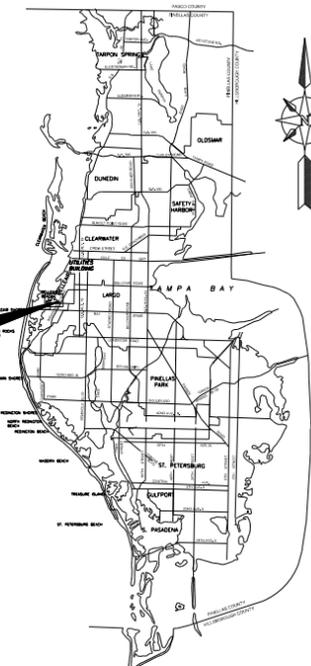
END CONSTRUCTION
STA. 24+30.00 @ SARASOTA RD.

END CONSTRUCTION
STA. 14+10.00 @ ORLANDO RD.



SECTIONS 28 & 29, TOWNSHIP 29 SOUTH, RANGE 15 EAST

PROJECT LOCATION



ROADWAY SHOP DRAWINGS
TO BE SUBMITTED TO:

BRET W. BENNETT, P.E. #53977
RS&H, INC.
1715 N. WESTSHORE BOULEVARD, SUITE 500
TAMPA, FLORIDA 33607-3999
(813) 289-5550

PLANS PREPARED BY:



1715 N. WESTSHORE BOULEVARD, SUITE 500
TAMPA, FLORIDA 33607-3999
(813) 289-5550 PHONE
(813) 289-0263 FAX

CONTRACT NO. C-9010
VENDOR NO. F592986466010
CERT. OF AUTHORIZATION NO. 5620

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

Design Standards

For Design Standards click on the "Design Standards" link at the following web site:

<http://www.dot.state.fl.us/rddesign/>

GOVERNING STANDARDS AND SPECIFICATIONS:

Florida Department of Transportation, 2015 Design Standards and revised Index Drawings as appended herein, and 2015 Standard Specifications for Road and Bridge Construction, as amended by Contract Documents.

TOWN OF BELLEAIR COMMISSIONERS

MAYOR: GARY H. KATICA
DEPUTY MAYOR: STEPHEN FOWLER
COMMISSIONER: TOM SHELLY
COMMISSIONER: KEVIN PICCARRETO
COMMISSIONER: MICHAEL WILKINSON
TOWN OF BELLEAIR MANAGER: MICAH MAXWELL
TOWN PROJECT MANAGER: KEITH BODEKER

REVISIONS

NO.	DATE	BY	DESCRIPTION

PROJECT LENGTH IS BASED ON @ OF CONSTRUCTION

LENGTH OF PROJECT

	LINEAR FEET	MILES
ROADWAY	2,544.08	0.482
BRIDGES		
NET LENGTH OF PROJECT	2,544.08	0.482
EXCEPTIONS		
GROSS LENGTH OF PROJECT	2,544.08	0.482

FINAL CONSTRUCTION PLANS
FEBRUARY 27, 2015



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ROADWAY PLANS
ENGINEER OF RECORD: BRET W. BENNETT, P.E.

P.E. NO.: 53977

FISCAL YEAR	SHEET NO.
15	1

PAY ITEM FOOTNOTES

0440-1-30 CLEANOUTS SHALL BE INCLUDED IN THE PRICE OF THE UNDERDRAIN.

0520-1-10 ROOT TRIMMING AND ROOT BARRIERS TO BE INCLUDED IN THE PRICE OF TYPE F CURB AND GUTTER.

REMOVAL OF EXIST. CONCRETE AND DROP CURB TO BE INCLUDED IN THE PARENT PRICE OF TYPE F CURB AND GUTTER.

0522-2 BRICK PAVERS, DETECTABLE WARNING SURFACES WITH TRUNCATED DOMES, SHALL BE INCLUDED IN THE PRICE OF CONCRETE SIDEWALK.

REMOVAL OF EXIST. CONCRETE AND DROP CURB TO BE INCLUDED IN THE PARENT PRICE OF CONCRETE SIDEWALK.

ALL CURB RETURNS SHALL BE CONSTRUCTED WITH 6" CONCRETE PAVEMENT.

0570-1-2 CHANGES TO PLANTING SHALL BE INCLUDED IN THE PRICE OF SODDING.

0715-4- INCLUDES ALL ITEMS REQUIRED FOR FULLY FUNCTIONING, COMPLETE STREET LIGHT SYSTEM, INCLUDING BUT NOT LIMITED TO LIGHT POLES, LUMINAIRE FIXTURES, CONDUITS, CONDUCTORS, PULL BOXES, ETC.

1050-11- WATER MAIN FIXTURES TO BE INCLUDED IN THE PARENT PRICE OF THE PIPE. INCLUDES PRICE TO ADJUST OR RELOCATE EXISTING METERS, VALVES, AND CONNECTIONS TO EXISTING RESIDENTIAL SERVICES.

TOWN OF BELLEAIR DEPARTMENT OF PUBLIC WORKS PROJECT SUMMARY OF PAY ITEMS			
ITEM NUMBER	ITEM DESCRIPTION	UNIT	QUANTITY TOTAL
0101- 1-	MOBILIZATION	LS	1.000
0102- 1-	MAINTENANCE OF TRAFFIC	LS	1.000
0104- 10- 3	SEDIMENT BARRIER	LF	3,092.400
0104- 11-	FLOATING TURBIDITY BARRIER	LF	172.000
0110- 1- 1	CLEARING & GRUBBING	LS	1.000
0110- 4-	REMOVAL OF EXISTING CONCRETE	SY	2,138.800
0120- 1-	REGULAR EXCAVATION	CY	3,115.000
0120- 6-	EMBANKMENT	CY	121.000
0121- 70-	FLOWABLE FILL	CY	304.700
0160- 4-	TYPE B STABILIZATION	SY	11,947.000
0162- 1- 11	PREPARED SOIL LAYER, FINISH SOIL LAYER, 6"	SY	12.000
0285-706-	OPTIONAL BASE, BASE GROUP 06 (CC ONLY)	SY	9,220.700
0334- 1- 13	SUPERPAVE ASPHALTIC CONC, TRAFFIC C	TN	760.700
0425- 1-351	INLETS, CURB, TYPE P-5, <10'	EA	28.000
0425- 1-361	INLETS, CURB, TYPE P-6, <10'	EA	2.000
0425- 1-451	INLETS, CURB, TYPE J-5, <10'	EA	5.000
0425- 1-452	INLETS, CURB, TYPE J-5, >10'	EA	5.000
0425- 1-902	INLETS (BAFFLE BOX) (>10')	EA	1.000
0425- 2- 61	MANHOLES, P-8, <10'	EA	2.000
0425- 2- 71	MANHOLES, J-7, <10'	EA	2.000
0425- 2- 72	MANHOLES, J-7, >10'	EA	1.000
0425- 2- 91	MANHOLES, J-8, <10'	EA	4.000
0425- 2- 92	MANHOLES, J-8, >10'	EA	2.000
0425- 4	INLETS, ADJUST	EA	2.000
0425- 11	MODIFY DRAINAGE STRUCTURE	EA	2.000
0430-175-118	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 18"S/CD	LF	653.000
0430-175-124	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 24"S/CD	LF	91.000
0430-175-136	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 36"S/CD	LF	298.000
0430-175-142	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 42"S/CD	LF	53.000
0430-175-148	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 48"S/CD	LF	572.000
0430-175-154	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 54"S/CD	LF	143.000
0430-175-166	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 66"S/CD	LF	590.000
0430-175-172	PIPE CULVERT, OPTIONAL MATERIAL, ROUND, 72"S/CD	LF	748.000
0440- 1- 30	UNDERDRAIN, TYPE 111	LF	2,607.000
0520- 1- 10	CONCRETE CURB & GUTTER, TYPE F	LF	7,352.000
0520- 3-	VALLEY GUTTER, CONCRETE	LF	185.000
0522- 1-	SIDEWALK CONCRETE, 4" THICK	SY	1,309.000
0522- 2-	SIDEWALK CONCRETE, 6" THICK	SY	516.100
0523- 1-	PATTERN PAVEMENT	SY	100.500
0526- 1- 1	PAVERS, ARCHITECTURAL, ROADWAY	SY	180.700
0570- 1- 2	PERFORMANCE TURF, SOD	SY	1,203.000
0590- 70- 1	IRRIGATION SYSTEM REPAIRS	LS	1.000
0700- 20- 11	SINGLE POST SIGN, F&I, LESS THAN 12 SF	AS	13.000
0711- 11-123	THERMOPLASTIC, STANDARD, WHITE, SOLID, 12"	LF	187.000
0711- 11-125	THERMOPLASTIC, STANDARD, WHITE, SOLID, 24"	LF	92.000
0715- 4-129	LIGHT POLE COMPLETE (FURNISH & INSTALL)	EA	1.000
0715- 4-400	LIGHT POLE COMPLETE (RELOCATE)	EA	22.000
1050- 11-222	UTILITY PIPE, F&I, PVC, WATER/SEWER, 2-4.9"	LF	1,157.000
1050- 11-223	UTILITY PIPE, F&I, PVC, WATER/SEWER, 5-7.9"	LF	2,924.000
1050- 16-002	UTILITY PIPE, REMOVE & DISPOSE, 2-4.9"	LF	928.000
1050- 16-003	UTILITY PIPE, REMOVE & DISPOSE, 5-7.9"	LF	2,881.000
1644-811-08	FIRE HYDRANT (RELOCATE)	EA	3.000



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FL.Cert.Nos: AAC001886
EB0005620 LCC000210



TOWN OF BELLEAIR
PUBLIC WORKS DEPARTMENT
901 PONCE DE LEON BLVD.
BELLEAIR, FL 33756

**BAYVIEW DRIVE
STREET AND DRAINAGE
IMPROVEMENTS**

SUB-CONSULTANTS

Mckim & Creed, Inc.
3802 Ehrlich Road, Suite 306
Tampa, Florida 33624
(813)549-3740

APPROVED BY:

BRET W. BENNETT, P.E.
FLA. REG. NO. 53977
DATE: _____

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:

REVIEWED BY: BWB

DRAWN BY: VES

DESIGNED BY: VES

HORIZONTAL SCALE:

VERTICAL SCALE:

AEP NO.: 104-2881-001

SHEET TITLE

SUMMARY OF PAY ITEMS

SHEET NUMBER



TOWN OF BELLEAIR
PUBLIC WORKS DEPARTMENT
901 PONCE DE LEON BLVD.
BELLEAIR, FL 33756

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APPROVED BY:

ROBERT M. GARRIGUES, P.E.
FLA. REG. NO. 47652
DATE: _____

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:

REVIEWED BY: RMG

DRAWN BY: DJ

DESIGNED BY: DJ

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VERTICAL SCALE:

AEP NO.: 104-2881-001

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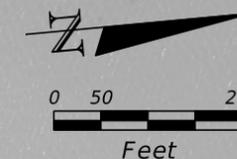
PROPOSED DRAINAGE MAP (1)

SHEET NUMBER

3

- NOTES:
1. THE ONLY MANHOLE THAT INCLUDES A CONTRIBUTING AREA IN THE SUB-BASIN AREA TABLE IS S-108 THE RUNOFF FROM THIS AREA IS REPRESENTED AS BASE FLOW IN STORM SEWER MODELING.
 2. CONTRIBUTING AREAS ARE NOT SHOWN FOR EXISTING INLETS THAT DO NOT RECEIVE ADDITIONAL CONTRIBUTING AREA IN THE POST DEVELOPEMENT CONDITION.
 3. THE CONTRIBUTING AREAS FOR S-300, S-301, S-302, AND S-303 AS WELL AS OTHER EXISTING INLETS WITHIN THE Ocala ROAD INTERSECTION HAVE BEEN ASSIGNED TO S-304 SINCE IT IS PART OF AN EXISTING COLLECTION SYSTEM.
 4. STRUCTURE S-4 IS THE LOCATION OF THE PROPOSED BAFFLE BOX.

CLEARWATER HARBOR



SUB-BASIN AREAS									
STR.	AREA	STR.	AREA	STR.	AREA	STR.	AREA	STR.	AREA
S-5	0.09	S-21	0.04	S-33	0.70	S-104	0.30		
S-7	0.09	S-22	0.31	S-34	0.01	S-106	0.50		
S-10	0.51	S-23	0.29	S-35	0.37	S-108	32.74		
S-11	0.06	S-24	0.36	S-36	0.05	S-200	0.78		
S-14	0.37	S-26	1.71	S-37	0.34	S-201	2.00		
S-15	0.09	S-27	1.01	S-38	0.05	S-202	1.40		
S-16	0.88	S-28	0.10	S-100	0.86	S-203	0.54		
S-18A	0.02	S-29	0.21	S-101	0.85	S-204	0.51		
S-19	0.90	S-31	0.42	S-102	1.60	S-304	24.70		
S-20	0.28	S-32	0.09	S-103	0.36				



- LEGEND:
- DRAINAGE DIVIDE
 - ~ FLOW ARROW
 - EX. DRAINAGE NETWORK
 - (XX) EXIST. STRUCTURE
 - (S-XX) PROPOSED STRUCTURE

NOTE: DO NOT USE THE INFORMATION ON THE DRAINAGE MAPS FOR CONSTRUCTION PURPOSES. DRAINAGE MAPS ARE IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DAMAGE CONCERNS.



LEGEND:

- DRAINAGE DIVIDE
- ~ FLOW ARROW
- EX. DRAINAGE NETWORK
- (XX) EXIST. STRUCTURE

NOTES: 1. DO NOT USE THE INFORMATION ON THE DRAINAGE MAPS FOR CONSTRUCTION PURPOSES. DRAINAGE MAPS ARE IN THE PLANS FOR DOCUMENTATION AND TO ASSIST CONSTRUCTION PERSONNEL WITH DAMAGE CONCERNS.
 2. SEE DRAINAGE MAP 1 FOR BAYVIEW DR. DRAINAGE BASINS.



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APPROVED BY:

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 FLA. REG. NO. 47652
 DATE: _____

REVISIONS

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DRAWN BY: DJ

DESIGNED BY: DJ

HORIZONTAL SCALE:

VERTICAL SCALE:

AEP NO.: 104-2881-001

SHEET TITLE

EXISTING DRAINAGE MAP (2)

SHEET NUMBER

4

STORM SEWER INFORMATION

- ⑬ Structure est13 storm inlet top of grate 22.20' throat 22.01' ie. nw 17.70' ie. e 18.18' ie. se 18.18'
- ⑭ Structure est14 storm inlet top 23.01' throat 22.16' ie. w 19.74' ie. ne 20.02' ie. s 20.29'
- ⑮ Structure est15 grate inlet top 25.84' ie. 21.88
- ⑯ Structure est16 storm inlet top 28.07' throat 27.31' ie. w 25.42' ie. e 25.51'
- ⑰ Structure est17 storm inlet top 28.50' throat 27.77' ie. w 26.29' ie. n 26.46' ie. e 26.96'
- ⑱ Structure est18 storm mh rim 26.46' ie. e 20.38' ie. w 3.15'
- ⑲ Structure est19 storm inlet rim 28.94' throat 28.20' ie. w 21.38' ie. e 22.06'
- ⑳ Structure est20 storm mh rim 32.81' ie. e 25.22' ie. w 25.22'
- ㉑ Structure est21 storm inlet top 28.78' ie. e 28.23' ie. se 26.16'
- ㉒ Structure est22 storm mh rim 29.71' ie. e 19.43' ie. w 19.37' ie. nw 25.17'
- ㉓ Structure est23 storm conflict inlet top 28.42' throat 27.69' ie. w 25.28' ie. e 25.17' top of pipe 27.55'
- ㉔ Structure est24 storm inlet top 28.98' throat 28.11' ie. n 26.66' ie. s 26.70'
- ㉕ Structure est25 storm inlet top 27.75' ie. nw 25.35' ie. e 25.74'
- ㉖ Structure est26 storm inlet top 27.73' ie. ne 24.85' ie. se 24.67'
- ㉗ Structure est27 storm inlet top 27.84' ie. n 24.83' ie. nw 24.45' ie. sw 24.43'
- ㉘ Structure est28 storm inlet top 28.39' throat 27.62' ie. e 26.72(4"pvc) ie. e 25.21(6"clay) ie. s 25.02'
- ㉙ Structure est29 f.e.s. inv. 5.21'
- ㉚ Structure est30 storm mh rim 23.61' ie. nw 5.22' ie. e 17.61'
- ㉛ Structure est31 storm inlet top 31.28' ie. w 17.85' ie. ese 20.33' ie. se 25.75'
- ㉜ Structure est32 storm inlet top 31.65' throat 30.88' ie. 28.23'
- ㉝ Structure est33 storm conflict mh rim 32.08' ie. e 23.59' ie. sw 20.30' ie. n 27.68' top of pipe 26.11'
- ㉞ Structure est34 storm inlet top 32.88' ie. e 26.76' ie. w 23.55'
- ㉟ Structure est35 storm inlet top 31.73' ie. 28.19'
- ㊱ Structure est36 storm inlet top 31.28' ie. nw 27.26' ie. se 28.82' ie. sw 30.28'
- ㊲ Structure est37 storm inlet top 34.27' ie. ne 30.63'
- ㊳ Structure est38 storm inlet top 34.37' ie. nw 28.74' ie. se 28.88' ie. sw 30.41'
- ㊴ Structure est39 storm inlet top 34.55' ie. ne 30.64'
- ㊵ Structure est40 storm mh rim 34.81' ie. w 28.81'

SANITARY SEWER INFORMATION

- Structure esa1 sanitary mh rim 45.97' ie. ne 33.96'(w) ie. ne 40.99'(e) ie. se 33.36' ie. sw 37.08'(e) ie. sw 33.95'(w) ie. nw 33.34'
- Structure esa2 sanitary mh rim 47.08' ie. nw 41.86' ie. se 32.73' ie. w 32.74'
- Structure esa3 sanitary mh rim 46.47' ie. w 32.02' ie. e 32.09' ie. s 32.13'
- Structure esa4 sanitary mh rim 46.41' ie. nw 43.06' ie. se 43.08'
- Structure esa5 sanitary mh rim 39.06' ie. nw 34.59' ie. se 34.59'
- Structure esa6 sanitary mh rim 38.61' ie. ne 34.48' ie. se 34.67' ie. sw 34.68' ie. w 34.61'
- Structure esa7 sanitary mh rim 39.29' ie. ne 33.96' ie. sw 33.95'
- Structure esa8 sanitary mh rim 39.05' ie. ne 33.75' ie. se 34.54' ie. sw 33.75'
- Structure esa9 sanitary mh rim 42.96' ie. nw 39.10' ie. ne 39.15' ie. se 40.38'
- Structure esa10 sanitary mh rim 34.12' ie. nw 29.85' ie. se 29.80' ie. sw 29.72'
- Structure esa11 sanitary mh rim 32.62' ie. w 28.45' ie. ne 28.58'
- Structure esa12 sanitary mh rim 29.96' ie. w 25.36' ie. e 25.70'
- Structure esa13 sanitary drop mh rim 23.71' ie. nw 16.06' ie. e 16.61' ie. e 20.21' ie. s 16.07'
- Structure esa14 sanitary mh rim 21.82' ie. n 15.93' ie. se 16.82' ie. w 15.86'
- Structure esa15 sanitary mh rim 21.67' ie. ne 16.85' ie. se 16.85'
- Structure esa16 sanitary mh rim 26.78' ie. ne 21.24' ie. se 22.28' ie. sw 21.24'
- Structure esa17 sanitary mh rim 27.87' ie. n 23.13' ie. s 22.45'
- Structure esa18 sanitary mh rim 28.96' ie. e 24.84' ie. s 24.79'
- Structure esa19 sanitary mh rim 32.51' ie. e 27.82' ie. w 26.07' ie. n 26.31'
- Structure esa20 sanitary mh rim 34.37' ie. e 26.16' ie. w 26.12'
- Structure esa21 sanitary mh rim 32.30' ie. n 25.12' ie. e 25.19' ie. s 25.14'
- Structure esa22 sanitary mh rim 34.96' ie. nw 26.51' ie. se 26.60'
- Structure esa23 sanitary mh rim 31.89' ie. e 28.29' ie. s 28.21'
- Structure esa24 sanitary mh rim 35.00' ie. e 30.05' ie. s 30.13' ie. w 29.98'

EXISTING STRUCTURE CALLOUT

- st1 storm manhole rim 32.43 ie n 26.76(15"rcp) ie s 24.54(24"rcp)
- st2 curb inlet top 26.76 ie e 20.73(24"pvc) ie w 23.44(24"x38"ercp)
- sa1 san manhole rim 32.43 ie n 25.75(8"vcp) ie s 24.34(12"pvc)

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VERTICAL SCALE:

AEP NO.: 104-2881-001

SHEET TITLE

**EXISTING DRAINAGE
AND UTILITY
STRUCTURES DATA**

SHEET NUMBER



TOWN OF BELLEAIR
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901 PONCE DE LEON BLVD.
BELLEAIR, FL 33756

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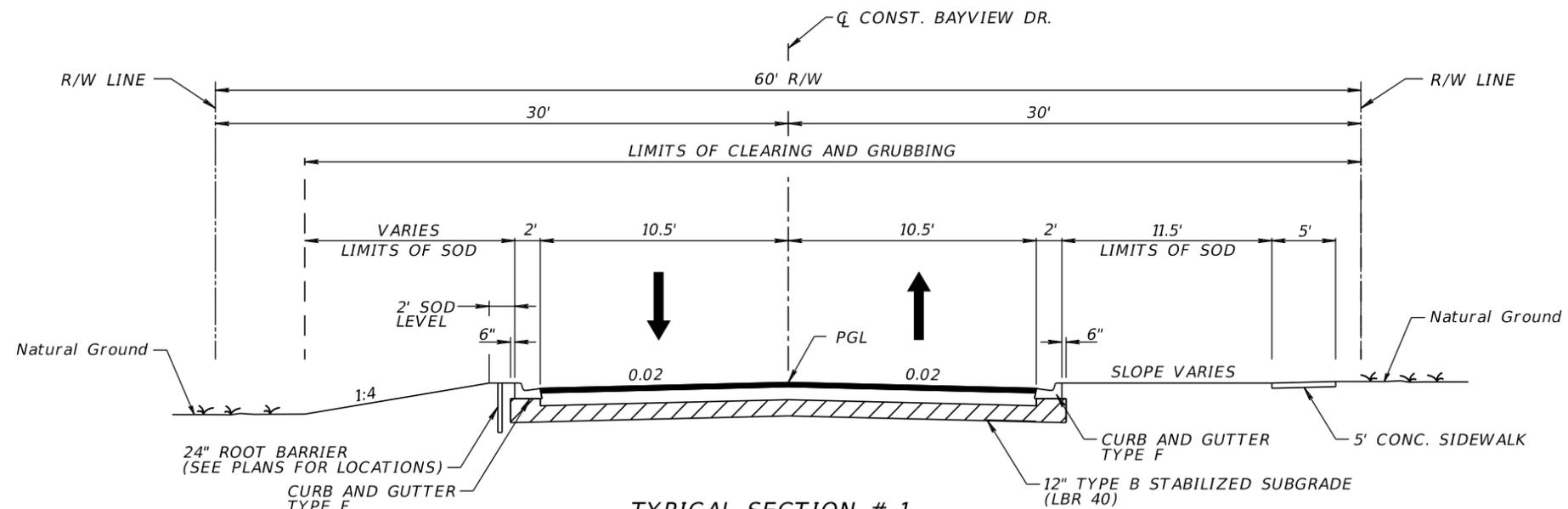
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SHEET TITLE

TYPICAL SECTIONS

SHEET NUMBER

6

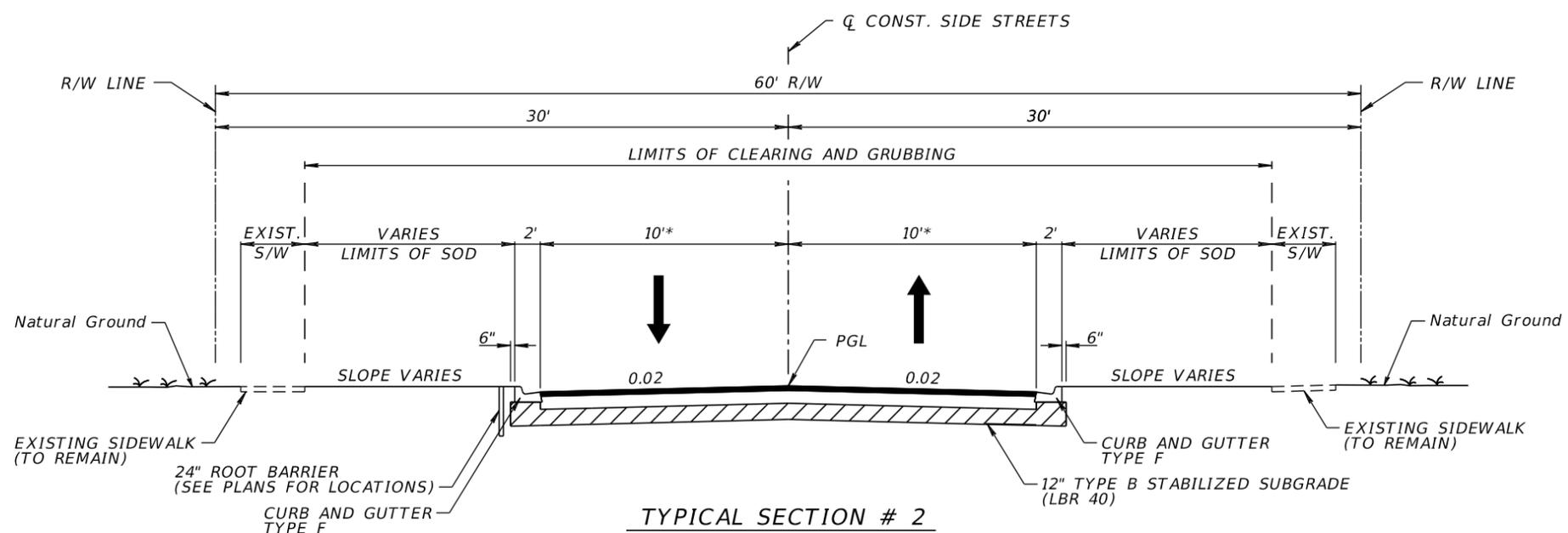


TYPICAL SECTION # 1
BAYVIEW DRIVE
STA. 100+80.00 TO STA. 126+24.08

DESIGN SPEED = 30 MPH
POSTED SPEED = 25 MPH

NEW CONSTRUCTION

OPTIONAL BASE GROUP 6 (CRUSHED CONCRETE ONLY) (8") WITH
TYPE SP-12.5 ASPHALTIC CONCRETE (TRAFFIC C) (1 1/2")



TYPICAL SECTION # 2
ORLANDO ROAD
STA. 10+10.50 TO STA. 14+10.00
SARASOTA ROAD
STA. 20+10.50 TO STA. 24+30.00
OCALA ROAD
STA. 30+10.92 TO STA. 33+47.47

DESIGN SPEED = 30 MPH
POSTED SPEED = 25 MPH

NEW CONSTRUCTION

OPTIONAL BASE GROUP 6 (CRUSHED CONCRETE ONLY) (8") WITH
TYPE SP-12.5 ASPHALTIC CONCRETE (TRAFFIC C) (1 1/2")

*OCALA ROAD - 10.5' LANE WIDTH



TOWN OF BELLEAIR
PUBLIC WORKS DEPARTMENT
901 PONCE DE LEON BLVD.
BELLEAIR, FL 33756

**BAYVIEW DRIVE
STREET AND DRAINAGE
IMPROVEMENTS**

SUB-CONSULTANTS

Mckim & Creed, Inc.
3802 Ehrlich Road, Suite 306
Tampa, Florida 33624
(813)549-3740

APPROVED BY:

BRET W. BENNETT, P.E.
FLA. REG. NO. 53977
DATE: _____

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:

REVIEWED BY: BWB

DRAWN BY: VES

DESIGNED BY: VES

HORIZONTAL SCALE:

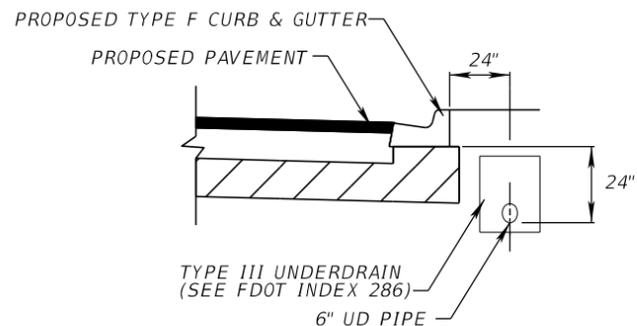
VERTICAL SCALE:

AEP NO.: 104-2881-001

SHEET TITLE

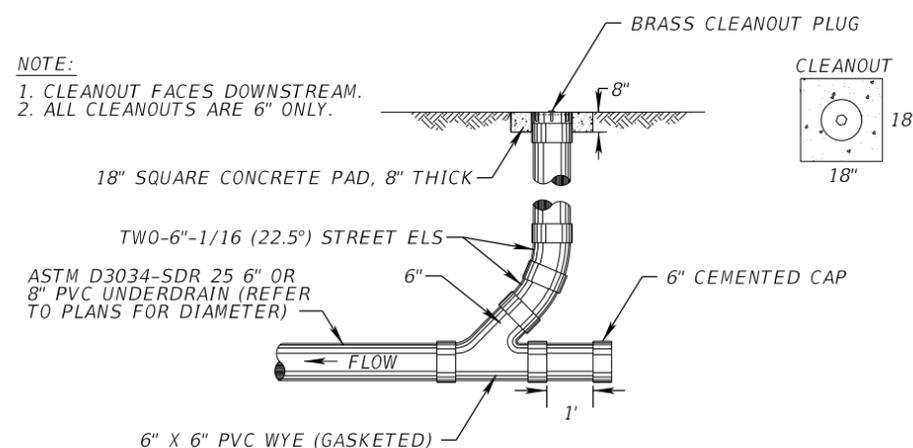
ROADWAY DETAILS

SHEET NUMBER



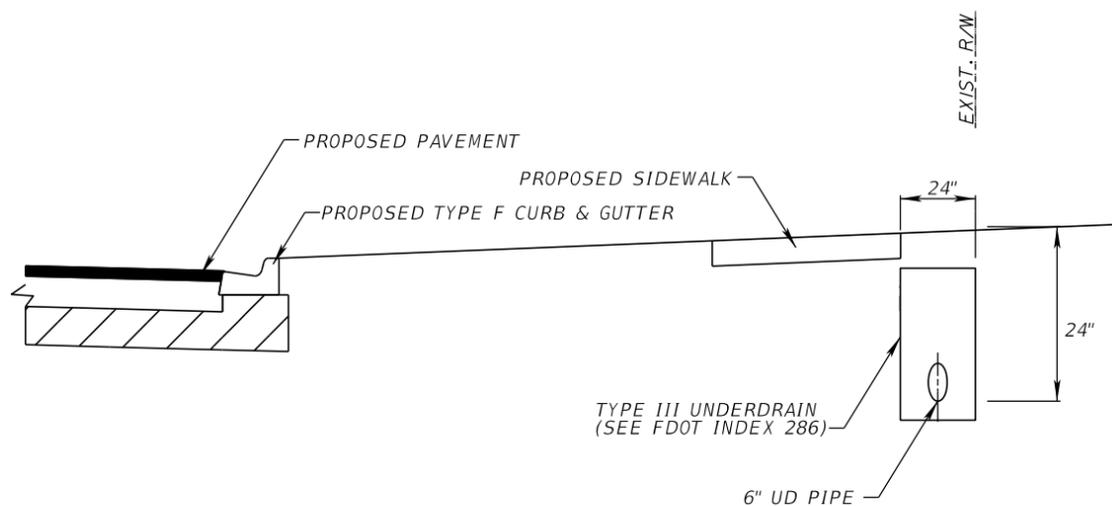
UNDERDRAIN DETAIL - BACK OF CURB

N.T.S.



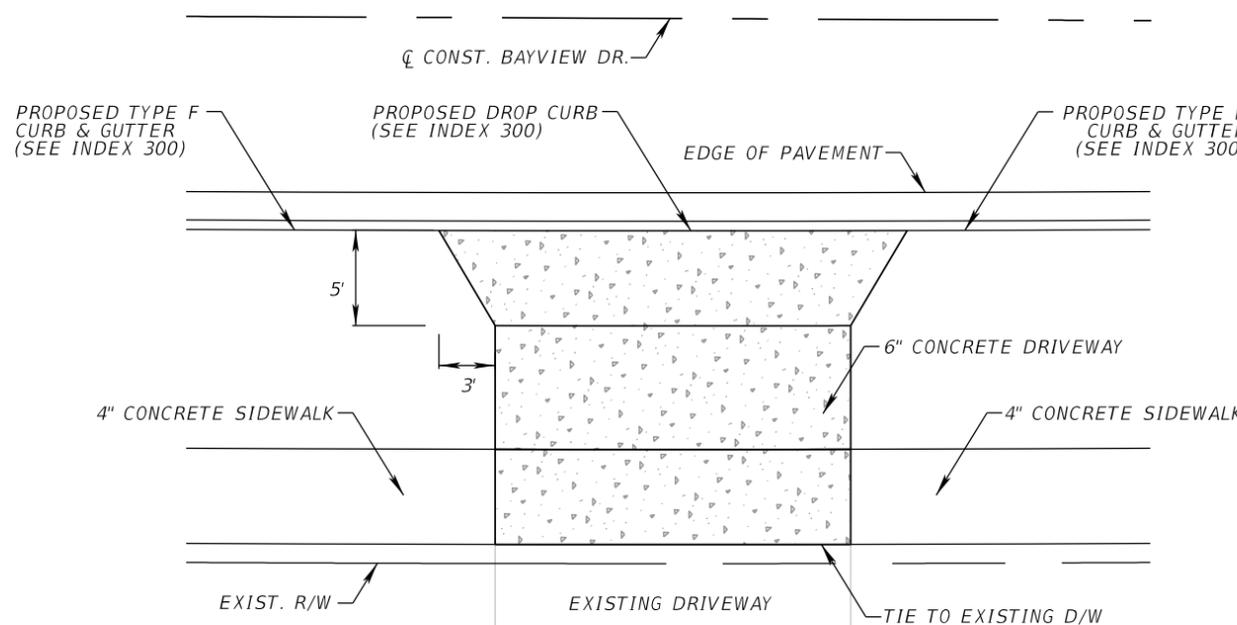
TERMINAL END UNDERDRAIN CLEANOUT (STORM)

N.T.S.



UNDERDRAIN DETAIL - BACK OF SIDEWALK

N.T.S.



DRIVEWAY DETAIL

N.T.S.



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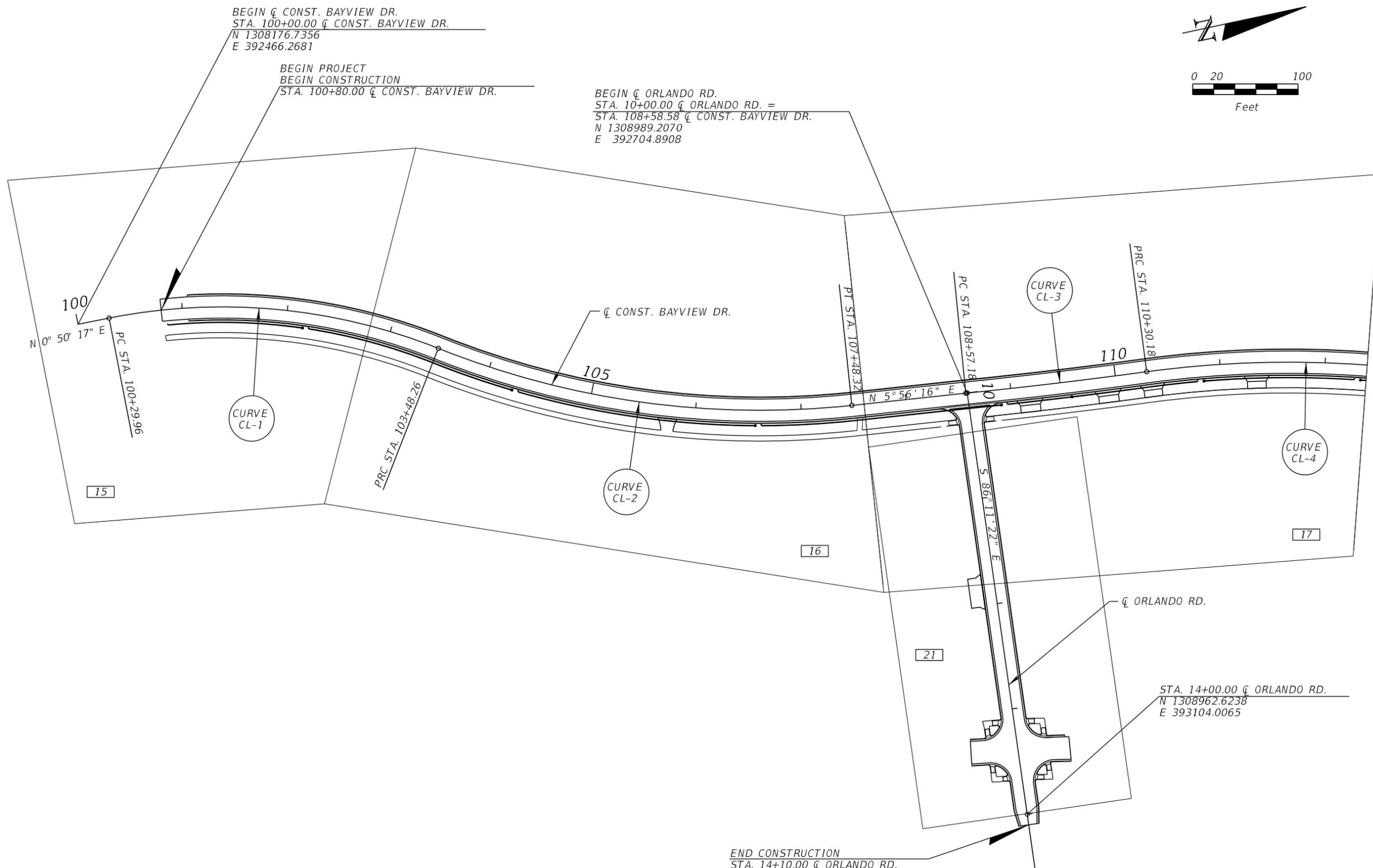
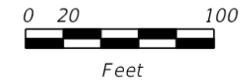
AEP NO.: 104-2881-001

SHEET TITLE

PROJECT LAYOUT (1)

SHEET NUMBER

11



BEGIN ζ CONST. BAYVIEW DR.
STA. 100+00.00 ζ CONST. BAYVIEW DR.
N 1308176.7356
E 392466.2681

BEGIN PROJECT
BEGIN CONSTRUCTION
STA. 100+80.00 ζ CONST. BAYVIEW DR.

BEGIN ζ ORLANDO RD.
STA. 10+00.00 ζ ORLANDO RD. =
STA. 108+58.58 ζ CONST. BAYVIEW DR.
N 1308989.2070
E 392704.8908

N 0° 50' 17" E
PC STA. 100+29.96

PRC STA. 103+48.26

PT STA. 107+48.32

PC STA. 108+57.18

PRC STA. 110+30.18

S 86° 11' 22" E

STA. 14+00.00 ζ ORLANDO RD.
N 1308962.6238
E 393104.0065

END CONSTRUCTION
STA. 14+10.00 ζ ORLANDO RD.

CURVE DATA CL-1	CURVE DATA CL-2	CURVE DATA CL-3	CURVE DATA CL-4
PI STA. = 101+93.57	PI STA. = 105+52.24	PI STA. = 109+43.69	PI STA. = 112+42.13
Δ = 32° 42' 13" (RT)	Δ = 27° 33' 53" (LT)	Δ = 1° 55' 02" (LT)	Δ = 23° 39' 30" (RT)
D = 10° 16' 28"	D = 6° 53' 24"	D = 1° 06' 30"	D = 5° 39' 42"
T = 163.62	T = 203.98	T = 86.51	T = 211.95
L = 318.30	L = 400.06	L = 173.00	L = 417.86
R = 557.65	R = 831.57	R = 5,170.00	R = 1,011.98
PC STA. = 100+29.96	PC STA. = 103+48.26	PC STA. = 108+57.18	PC STA. = 110+30.18
PT STA. = 103+48.26	PT STA. = 107+48.32	PT STA. = 110+30.18	PT STA. = 114+48.04
e = NC	e = NC	e = NC	e = NC

LEGEND	
	PLAN/PROFILE SHEETS



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VERTICAL SCALE:

AEP NO.: 104-2881-001

SHEET TITLE

PROJECT LAYOUT (2)

SHEET NUMBER

12

CURVE DATA CL-4
PI STA. = 112+42.13
Δ = 23° 39' 30" (RT)
D = 5° 39' 42"
T = 211.95
L = 417.86
R = 1,011.98
PC STA. = 110+30.18
PT STA. = 114+48.04
e = NC

CURVE DATA CL-5
PI STA. = 115+52.86
Δ = 31° 08' 02" (RT)
D = 15° 13' 41"
T = 104.82
L = 204.45
R = 376.25
PC STA. = 114+48.04
PT STA. = 116+52.49
e = NC

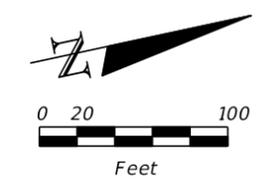
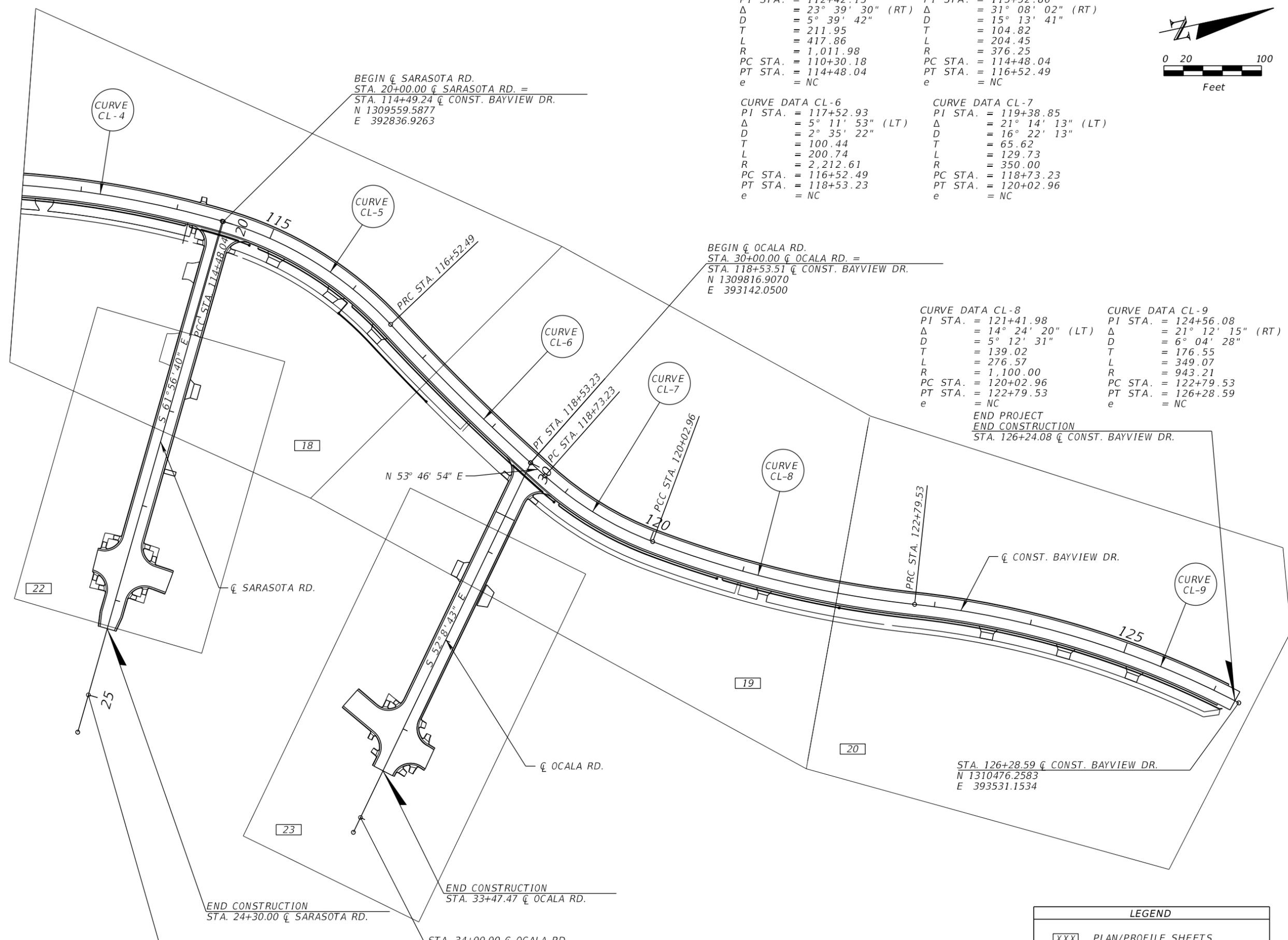
CURVE DATA CL-6
PI STA. = 117+52.93
Δ = 5° 11' 53" (LT)
D = 2° 35' 22"
T = 100.44
L = 200.74
R = 2,212.61
PC STA. = 116+52.49
PT STA. = 118+53.23
e = NC

CURVE DATA CL-7
PI STA. = 119+38.85
Δ = 21° 14' 13" (LT)
D = 16° 22' 13"
T = 65.62
L = 129.73
R = 350.00
PC STA. = 118+73.23
PT STA. = 120+02.96
e = NC

CURVE DATA CL-8
PI STA. = 121+41.98
Δ = 14° 24' 20" (LT)
D = 5° 12' 31"
T = 139.02
L = 276.57
R = 1,100.00
PC STA. = 120+02.96
PT STA. = 122+79.53
e = NC

CURVE DATA CL-9
PI STA. = 124+56.08
Δ = 21° 12' 15" (RT)
D = 6° 04' 28"
T = 176.55
L = 349.07
R = 943.21
PC STA. = 122+79.53
PT STA. = 126+28.59
e = NC

END PROJECT
END CONSTRUCTION
STA. 126+24.08 @ CONST. BAYVIEW DR.



LEGEND

XXX	PLAN/PROFILE SHEETS
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STA. 25+00.00 @ SARASOTA RD.
N 1309324.4236
E 393278.1720

STA. 34+00.00 @ OCALA RD.
N 1309571.4430
E 393457.8781

END CONSTRUCTION
STA. 24+30.00 @ SARASOTA RD.

END CONSTRUCTION
STA. 33+47.47 @ OCALA RD.

BEGIN @ SARASOTA RD.
STA. 20+00.00 @ SARASOTA RD. =
STA. 114+49.24 @ CONST. BAYVIEW DR.
N 1309559.5877
E 392836.9263

BEGIN @ OCALA RD.
STA. 30+00.00 @ OCALA RD. =
STA. 118+53.51 @ CONST. BAYVIEW DR.
N 1309816.9070
E 393142.0500

GENERAL NOTES

1. LOCATION, ELEVATION, AND DIMENSIONS OF EXISTING UTILITIES, STRUCTURES, AND OTHER FEATURES INCLUDING UNDERDRAINS ARE SHOWN IN ACCORDANCE WITH THE BEST INFORMATION AVAILABLE AT TIME OF THE PREPARATION OF THESE PLANS BUT DO NOT PURPORT TO BE ABSOLUTELY CORRECT.
2. THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATION, AND DIMENSIONS OF ALL EXISTING UTILITIES, STRUCTURES, AND OTHERS FEATURES AFFECTING HIS WORK AND SHALL COMPLY WITH ALL STATE, TOWN, AND LOCAL ORDINANCES AND OBTAIN ANY NECESSARY WORK PERMITS THAT MAY BE REQUIRED PRIOR TO CONSTRUCTION.
3. UTILITIES NOT UNDER THIS CONTRACT TO BE ADJUSTED BY UTILITY OWNERS.
4. THE CONTRACTOR SHALL PROVIDE AT LEAST 48 HOURS NOTICE TO THE VARIOUS UTILITY COMPANIES, INCLUDING THE TOWN TRAFFIC CONTROL SERVICES AT 744-5670, IN ORDER TO LOCATE AND IDENTIFY THEIR EXISTING UNDERGROUND FACILITIES PRIOR TO CONSTRUCTION, AS ESTABLISHED BY THE "UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT".
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OF THE COORDINATION OF CONSTRUCTION SCHEDULING BETWEEN THE CONTRACTOR & ALL UTILITY AGENCIES. NOTE: THIS INCLUDES MEETING WITH UTILITY AGENCIES PRIOR TO THE PRE-CONSTRUCTION CONFERENCE TO ADJUST THEIR SCHEDULES TO COINCIDE WITH THE CONTRACTORS CONSTRUCTION SCHEDULE. (REFERENCE CONTRACT DOCUMENTS.)
6. ALL STREET SIGNS AND STREET MARKERS ARE TO BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER.
7. THE TOWN RESERVES THE RIGHT TO PERFORM QUALITY ASSURANCE TESTING ON ALL MATERIALS DELIVERED TO PROJECT AND TO REJECT ALL MATERIALS NOT MEETING ACCEPTABLE STANDARDS.
8. WHERE CONNECTION TO EXISTING ACCESS IS NOT INDICATED ON THE PLANS, PROPER CONNECTION IS TO BE MADE AT THE DIRECTION OF THE TOWN PROJECT MANAGER. WHERE EXISTING ACCESS CONNECTIONS ARE SHOWN ON THE PLANS, SUCH CONNECTIONS MAY BE MOVED, ADJUSTED, MODIFIED, ADDED OR DELETED UPON REQUEST BY THE PROPERTY OWNER AND APPROVAL BY THE TOWN PROJECT MANAGER. ALL APPROVALS BY THE TOWN PROJECT MANAGER SHALL BE SUBJECT TO CONFORMANCE WITH APPLICABLE STANDARDS, CODES AND REGULATIONS, AND CONDITIONED UPON GRANT OF ANY NECESSARY RIGHT OF ENTRY BY THE PROPERTY OWNER WITHOUT CHARGE TO THE TOWN.

UPON PROPERTY OWNER'S REQUEST, MADE PRIOR TO COMMENCEMENT OF PROJECT CONSTRUCTION, THE TOWN MAY SUBSTITUTE A GRAVITY WALL FOR A GRADED AND HARMONIZED SLOPE OR VICE VERSA CONTINGENT UPON TOWN PROJECT MANAGER APPROVAL, WHICH APPROVAL SHALL BE SUBJECT TO CONFORMANCE WITH APPLICABLE STANDARDS, CODES AND REGULATIONS, AND CONDITIONED UPON GRANT OF ANY NECESSARY RIGHT OF ENTRY BY THE PROPERTY OWNER WITHOUT CHARGE TO THE TOWN.
9. NO STABILIZING WILL BE REQUIRED FOR PAVED TURNOUTS TO PRIVATE PROPERTY.
10. ALL EXISTING DRAINAGE STRUCTURES WITHIN THE RIGHT-OF-WAY SHALL REMAIN UNLESS SHOWN ON THE PLANS TO BE REMOVED.
11. IN THE EVENT EXCAVATION OF UNSUITABLE MATERIAL IS REQUIRED, IT MAY BE USED TO FLATTEN SLOPES IN AREAS PER STD. INDEX 505 & APPROVED BY THE ENGINEER.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE STAKE-OUT OF THE PROJECT, I.E., LINE, GRADE, SLOPE STAKE, UTILITY RELOCATIONS OR ANY OTHER STAKE-OUT THAT MAY BE REQUIRED TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS. NO ADDITIONAL PAYMENT SHALL BE MADE FOR THIS WORK.
13. OVERALL CLEAN-UP SHALL BE ACCOMPLISHED BY THE CONTRACTOR IN ACCORDANCE WITH TOWN STANDARDS OR AS DIRECTED BY THE ENGINEER. ANY AND ALL EXPENSES INCURRED FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR OTHER ITEMS.
14. THE CONTRACTOR SHALL ENDEAVOR TO PROTECT PRIVATE PROPERTY. ANY DAMAGE CAUSED BY THE CONTRACTOR IN THE PERFORMANCE OF HIS WORK SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE. PAYMENT SHALL NOT BE MADE FOR THIS WORK.
15. ANY DAMAGE TO STATE, COUNTY, OR TOWN ROADS CAUSED BY THE CONTRACTOR'S HAULING OR EXCAVATION EQUIPMENT SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. PAYMENT SHALL NOT BE MADE FOR THIS WORK.
16. ANY DAMAGES TO THE BLUFF (INCLUDING BUT NOT LIMITED TO THE BLUFF CONDITION, TREES, GRASS, SOIL/DIRT, UTILITIES, STRUCTURES, APPURTENANCES AND ANY OTHER EXISTING VEGETATION) SHALL BE REPAIRED TO ITS PRECONDITION BY THE CONTRACTOR. FOR THE PURPOSES OF THESE CONSTRUCTION PLANS, THE BLUFF SHALL BE DEFINED AS ANY EXISTING LAND OR WATER WEST OF THE BAYVIEW DRIVE WESTERN RIGHT OF WAY. ALL COST FOR REPAIRING THE BLUFF TO ITS PRECONSTRUCTION CONDITION SHALL BE BORNE BY THE CONTRACTOR.

AS PART OF THE SHEET PILING SHOP DRAWING SUBMITTAL, THE CONTRACTOR SHALL INCLUDE A CORRECTIVE ACTION PLAN IN THE EVENT THAT THE SHEET PILE DRIVING PROCESS IMPACTS, DAMAGES OR OTHERWISE CHANGES THE ELEVATION OF THE EXISTING BLUFF.

17. ALL SIDEWALK RAMPS SHALL BE BUILT PER THE LATEST F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS AT THE TIME OF BID.
18. ALL EROSION CONTROL FENCES AND BARRIERS SHALL BE ERECTED PRIOR TO ANY LAND ALTERATIONS, MAINTAINED DURING CONSTRUCTION, AND REMOVED FOLLOWING SOIL STABILIZATION AND FINAL DRESSING.
19. ALL SYMBOLS AND ABBREVIATIONS SHALL MEET F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NUMBERS 001 & 002.
20. THIS AREA IS VOLUME SENSITIVE, ALL PRECAUTIONS ARE TO BE TAKEN BY THE CONTRACTOR TO MAINTAIN FLOW INTEGRITY OF STORMWATER RUNOFF DURING RAIN EVENTS AT ALL TIMES.
21. THERE SHALL BE NO CHANGE IN OR DEVIATION FROM THESE PLANS WITHOUT PRIOR APPROVAL BY THE ENGINEER. IF POSSIBLE SIDEWALK DEFLECTION WILL AVOID TREE REMOVAL, CONTACT ENGINEER FOR REVIEW.
22. ALL EARTHWORK AND COMPACTION SHALL BE INSPECTED BY THE ENGINEER OR HIS DULY APPOINTED REPRESENTATIVE PRIOR TO FILLING OR CONSTRUCTING.
23. CONTRACTOR SHALL MAINTAIN SLOPES AND SOD UNTIL COMPLETION AND ACCEPTANCE OF TOTAL PROJECT. UNTIL ACCEPTANCE, ALL EROSION, SILTATION AND MAINTENANCE OF GRADES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
24. CONTRACTOR SHALL SPRINKLE OR OTHERWISE APPLY WATER TO EXPOSED CONSTRUCTION AREAS TO CONTROL SIGNIFICANT WIND EROSION AND FUGITIVE DUST.
25. ALL AREAS DISTURBED BY CONSTRUCTION ARE TO BE SODDED UNLESS NOTED OTHERWISE ON PLANS. ALL ITEMS DISTURBED BY CONSTRUCTION SHALL BE REPLACED, SODDING TO BE ACCOMPLISHED WITHIN ONE WEEK (OR SOONER) OF ADJACENT SIDEWALK CONSTRUCTION.
26. ALL PROPOSED GROUND ELEVATIONS ARE FINISHED SOD ELEVATIONS, FINISH GRADING SHALL BE 0.2 FEET LESS THAN ELEVATIONS SHOWN TO ALLOW FOR THICKNESS OF SOD.
27. ALL CONSTRUCTION SHALL BE IN COMPLIANCE WITH THE AMERICANS WITH DISABILITIES ACT AND THE FLORIDA ACCESSIBILITY CODE (ARTICLE 1, SECTION 74-4 (3), PAGE 4).
28. THE USE OF VIBRATORY ROLLERS FOR COMPACTION EFFORTS IS NOT ALLOWED ON THIS PROJECT.
29. CURB INLET ELEVATIONS AND OFFSETS IDENTIFIED AT THE THEORETICAL GUTTER ELEV. PER FDOT STANDARD INDEX.
30. FOR CURB INLETS LOCATED ON PALMETTO ROAD CURB INLET OFFSET IS MEASURED FROM THE CLOSEST INTERSECTING CROSS STREET (I.E. ORLANDO ROAD, SARASOTA ROAD, OR OCALA ROAD).
31. ALL STORM SEWER PIPE (I.E. RCP) SHALL BE A MINIMUM OF CLASS II.
32. THE CONTRACTOR SHALL HAVE A QUALIFIED STORMWATER MANAGEMENT INSPECTOR THAT HAS BEEN CERTIFIED THROUGH THE FDEP ON SITE DURING ALL CONSTRUCTION ACTIVITIES.
33. THE CONTRACTOR WILL REQUEST A PRE-POUR INSPECTION BY THE DESIGNATED TOWN INSPECTOR. THE CONTRACTOR SHALL NOT POUR ANY SIDEWALK OR SIDEWALK RAMP CONCRETE UNTIL IT PASSES A "PRE-POUR" INSPECTION AND TOWN INSPECTOR APPROVES THAT ALL DE-ROOTING AND CLEARING AND GRUBBING REQUIREMENTS, IF ANY, ARE PERFORMED IN ACCORDANCE WITH THIS SPECIFICATION, TO VERIFY THAT ALL FORM WORK IS SUFFICIENT, AND THAT THE SUBGRADE IS CUT TO THE PROPER DEPTH AND COMPACTED PROPERLY. WORK NOT IN ACCORDANCE WITH A COUNTY "POST-POUR" INSPECTION MAY REQUIRE THE COMPLETE REMOVAL OF REJECTED WORK OR RESULT IN A REDUCED PAYMENT OF THE DELIVERABLE. THE PRE-POUR INSPECTION APPROVAL SHALL NOT RELEASE THE CONTRACTOR FROM THE RESPONSIBILITY OF COMPLETING ALL WORK IN ACCORDANCE WITH PLANS AND SPECIFICATIONS OR DIRECTIONS OF THE ENGINEER.

TRAFFIC CONTROL GENERAL NOTES

34. THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES, IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" 2009, AND THE CURRENT FLORIDA DEPARTMENT OF TRANSPORTATION "ROADWAY AND TRAFFIC DESIGN STANDARDS" 2012, AS AMENDED BY THE SPECIFICATIONS FOR THIS PROJECT.
35. TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH DESIGN STANDARDS 600 SERIES.
36. WHENEVER CONSTRUCTION EQUIPMENT IS DRIVEN OR TRANSPORTED ON THE OPEN TRAVEL LANES, THE CONTRACTOR SHALL UTILIZE INDEX 619.
37. THE MINIMUM TEMPORARY LANE WIDTH ALLOWED IS TEN (10) FEET.
38. THE CONTRACTOR SHALL PROVIDE A DEDICATED CREW FOR THE INSTALLATION, MAINTENANCE CONTROL DEVICES (I.E. BARRICADES, SIGNS, ARROW BOARDS, ETC.). THIS CREW SHALL CONSIST OF THE CONTRACTOR'S WORK FORCE WHOSE SOLE RESPONSIBILITY WILL BE THE MAINTENANCE OF TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL FURNISH A WORK VEHICLE TO AID IN MAINTAINING THE CONTROL DEVICES.

39. EXISTING POSTED SPEED IS TO BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.

40. THE CONTRACTOR SHALL PROVIDE ANY AND ALL MATERIALS AND EQUIPMENT NEEDED TO MEET THE DROPOFF REQUIREMENTS OF FDOT STANDARD INDEX NO. 600. PAYMENT FOR ALL MATERIALS SHALL BE RESURFACED PRIOR TO OPENING TO TRAFFIC. IN THE EVENT THAT PAVEMENT OPERATION ARE STOPPED DUE TO WEATHER CONDITIONS OR TRAFFIC CONGESTION, THE CONTRACTOR'S ATTENTION IS DIRECTED TO STANDARD INDEX 600, SHEET 10 OF 13 - DROPOFFS IN WORK ZONES.

41. THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES IN ACCORDANCE WITH GUIDELINES PRESENT IN THE STORMWATER POLLUTION PREVENTION PLANS DURING CONSTRUCTION OPERATIONS TO ENSURE SAFE VEHICULAR OPERATIONS AS WELL AS TO PROHIBIT ANY UNDUE IMPACT ON OFF-SITE DRAINAGE OR ENVIRONMENTAL CONCERNS. ALL COSTS FOR INSTALLATION OF TEMPORARY BARRIER WALL, 1:4 SLOPES FOR DROPOFFS OR TEMPORARY CURB SHALL BE INCLUDED IN THE COST OF MAINTENANCE OF TRAFFIC.

42. ALL TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORK DAY OR WHENEVER THE WORK BECOMES INACTIVE. THE CONTRACTOR SHALL NOT OPEN ANY AREA THAT CANNOT BE BACKFILLED IN THE SAME DAY OPERATION. ALL TRENCHING OR EXCAVATION WITHIN THE PAVEMENT AREA SHALL BE PERFORMED PRIOR TO CONSTRUCTION AND MILLING & RESURFACING OPERATIONS.

43. THE TRAFFIC AND TRAVEL WAYS SHALL NOT BE ALTERED BY THE CONTRACTOR TO CREATE A WORK ZONE UNTIL ALL LABOR AND MATERIAL ARE AVAILABLE FOR THE THE CONSTRUCTION OF THAT AREA.

44. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT MILLED MATERIAL FROM ENTERING THE DRAINAGE SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING INLETS CLEAN OF PAVING MATERIALS, SILT, LIME ROCK AND DEBRIS DURING THE CONSTRUCTION AT NO ADDITIONAL COST.

45. THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE REMOVAL OF STORMWATER FROM THE ROADWAYS DURING CONSTRUCTION. PROVISIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.

46. THE CONTRACTOR SHALL PROVIDE, AS A MINIMUM, A 1:250 FEATHERING RATE, FOR ANY PAVEMENT ELEVATION CHANGE CAUSED BY MILLING OR RESURFACING ACTIVITIES THAT MOTORISTS WILL TRAVERSE DURING WORK.

47. THE CONTRACTOR SHALL MAINTAIN THE EXISTING LEVEL OF ILLUMINATION ON THE TRAVELED ROADWAY DURING CONSTRUCTION.

48. PRIOR TO IMPLEMENTING FULL ROAD CLOSURE, THE CONTRACTOR MUST SUBMIT A DETOUR PLAN FOR THE TOWN AND ENGINEER'S APPROVAL.

TREE PROTECTION GENERAL NOTES

49. IF ANY TREES ARE DAMAGED BY CONSTRUCTION ACTIVITY OR OTHER MEANS WITHIN THE DAMAGED BY CONSTRUCTION ACTIVITY OR OTHER MEANS WITHIN THE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL RETURN TREE TO ORIGINAL CONDITION WITH NO COMPENSATION FROM THE TOWN.

50. WHERE EXCAVATION IS IN CLOSE PROXIMITY OF TREES TO BE SAVED, THE CONTRACTOR SHALL USE CAUTION NOT TO DAMAGE THE ROOT SYSTEM. NO EQUIPMENT, SUPPLIES OR VEHICLES SHALL BE PARKED OR STORED WITHIN THE TREES DRIP LINE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENFORCE THESE REQUIREMENTS.

51. PARKING OF VEHICLES AND EQUIPMENT OR STOCKPILING OF MATERIALS WITHIN THE DRIPLINE OF TREES IS PROHIBITED. TREE PROTECTION BARRICADES MAY BE REQUIRED IF THE CONTRACTOR FAILS TO MEET THESE SPECIFICATIONS.

52. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL UNAUTHORIZED CUTTING OR DAMAGE TO ANY EXISTING TREES AND SHRUBS CAUSED BY CARELESS OPERATION OF EQUIPMENT, STOCKPILING OF MATERIALS, ETC. THIS SHALL INCLUDE COMPACTION BY DRIVING OR PARKING INSIDE THE DRIPLINE, OR THE SPILLING OF OIL, GASOLINE, OR OTHER DELETERIOUS MATERIALS WITHIN THE DRIPLINE.

53. AVOID SCRAPING LOWER LIMBS OR GOUGING BARK OF TREES BY HEAVY EQUIPMENT OR CONSTRUCTION MATERIALS. INSTALL BARRICADES OR WRAP TREE TRUNKS AS NEEDED.

54. ANY PRUNING DONE TO THE TREE SHALL BE DIRECTED BY A CERTIFIED ARBORIST THAT HAS BEEN APPROVED BY THE TOWN MANAGER OR PUBLIC WORKS DIRECTOR. IF LIMBS ARE ACCIDENTALLY BROKEN BY EQUIPMENT, REMOVE THE JAGGED EDGE BY SAWING AT THE BROKEN LIMB'S JUNCTION WITH THE TRUNK OR NEXT LARGER LIMB. COORDINATION WITH ARBORIST IS REQUIRED.

55. NO MATERIALS SHALL BE BURNED ON SITE.

56. EXISTING GRADE AROUND ALL TREE ROOTS SHALL BE MAINTAINED UNLESS OTHERWISE INDICATED ON DRAWINGS.

57. THE CONTRACTOR SHALL PROVIDE CLEAN, NATURAL SOILS WITHIN THE AFFECTED AREA OF THE DRIPLINE, AS DETERMINED BY THE TOWN.

58. TREES THAT REQUIRE BARRICADES ARE TO FOLLOW FDOT DESIGN STANDARDS INDEX 544 - TREE PROTECTION BARRICADE.

RS&H

RS&H, Inc.
1715 N. Westshore Blvd., Suite 500
Tampa, Florida 33607
(813)289-5550 FAX: (813)289-0263

www.rsandh.com
FL.Cert.Nos: AAC001886
EB0005620 LCC000210



TOWN OF BELLEAIR
PUBLIC WORKS DEPARTMENT
901 PONCE DE LEON BLVD.
BELLEAIR, FL 33756

**BAYVIEW DRIVE
STREET AND DRAINAGE
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SHEET TITLE

GENERAL NOTES

SHEET NUMBER

13

SURVEY NOTES

1. TYPE OF SURVEY: TOPOGRAPHIC SURVEY
2. DATE OF SURVEY: MARCH 31, 2004
3. SURVEY CREW: DAN McINTURFF and KYLE McCLUNG.
4. ELEVATIONS SHOWN HEREON ARE IN FEET AND REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988. (N.A.V.D.)
5. REFERENCE BENCHMARK IS CITY OF PINELLAS BENCHMARK NO. 757, STAMPED: HALL O, PINELLAS TOWN DISK, LOCATED AT THE INTERSECTION OF INDIAN ROCKS ROAD (STATE ROAD 697) AND ALTHEA ROAD. STATION IS LOCATED IN THE NORTHEAST CORNER OF THE INTERSECTION, 29.5 FEET SOUTHWEST OF A 12 INCH PALM TREE, 28.0 FEET NORTH OF CENTER OF ALTHEA ROAD, 21.5 FEET SOUTHEAST OF CENTER OF INDIAN ROCKS ROAD. SET IN TOP OF A 12 INCH DIAMETER ROUND CONCRETE MONUMENT THAT IS FLUSH WITH THE TOP OF THE GROUND.

ELEVATION = 47.43'
- REFERENCE BENCHMARK IS CITY OF PINELLAS BENCHMARK NO. 758, STAMPED: HALL P, PINELLAS TOWN DISK, LOCATED AT THE TRI-INTERSECTION OF INDIAN ROCKS ROAD (STATE ROAD 697), PONCE DE LEON BLVD. AND COUNTRY CLUB ROAD. STATION IS LOCATED IN THE NORTHWEST CORNER OF THE INTERSECTION, 21.0 FEET NORTHWEST OF CENTER OF INDIAN ROCKS ROAD, 16.0 FEET SOUTHWEST OF A CONCRETE LAMP POST, 11.8 FEET SOUTH OF A 16 INCH PALM TREE, 2.5 FEET SOUTH OF SOUTH EDGE OF SIDEWALK. SET IN TOP OF A 12 INCH DIAMETER ROUND CONCRETE MONUMENT THAT IS FLUSH WITH THE TOP OF THE GROUND.

ELEVATION = 46.29'
6. NO UNDERGROUND INSTALLATIONS OR IMPROVEMENTS HAVE BEEN LOCATED EXCEPT AS SHOWN.
7. NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS, RIGHT OF WAY AND/OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR EXCEPT AS SHOWN.
8. THIS SURVEY DOES NOT REFLECT NOR DETERMINE OWNERSHIP.
9. ALL MEASUREMENTS, DISTANCES, ELEVATIONS AND FEATURES SHOWN WERE PERFORMED IN STRICT ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS SET FORTH IN CHAPTER 61G17-6, FLORIDA ADMINISTRATION CODE.
10. USE OF THIS SURVEY BY ANYONE OTHER THAN THOSE PREPARED FOR WILL BE THE RE-USERS SOLE RISK WITHOUT LIABILITY TO THE SURVEYOR.
11. THERE MAY BE ITEMS DRAWN OUT OF SCALE TO GRAPHICALLY SHOW THEIR LOCATION.
12. ONLY TREES FOUR (4) INCHES AND LARGER DIAMETER AT BREAST HEIGHT (DBH), WERE LOCATED AND SHOWN ON MAP OF SURVEY.

SWFWMD GRANT FUNDING NOTES

13. THE CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF THE COOPERATIVE FUNDING AGREEMENT BETWEEN THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) AND THE TOWN OF BELLEAIR. THE AGREEMENT IS IN THE CONTRACT DOCUMENTS.
14. THE TOWN SHALL RECOGNIZE DISTRICT FUNDING IN ANY REPORTS, MODELS, STUDIES, MAPS, OR OTHER DOCUMENTS RESULTING FROM THIS AGREEMENT, AND THE FORM OF SAID RECOGNITION SHALL BE SUBJECT TO DISTRICT APPROVAL. IF CONSTRUCTION IS INVOLVED, THE TOWN SHALL PROVIDE SIGNAGE AT THE PROJECT SITE THAT RECOGNIZES FUNDING FOR THIS PROJECT PROVIDED BY THE DISTRICT. ALL SIGNAGE MUST MEET WITH DISTRICT WRITTEN APPROVAL AS TO FORM, CONTENT AND LOCATION, AND MUST BE IN ACCORDANCE WITH LOCAL SIGN ORDINANCES.
15. THE CONTRACTOR SHALL SUPPLY THE TOWN AS-BUILT DRAWINGS SIGNED AND SEALED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA FOR THE STORM SEWER SYSTEM WITHIN THE LIMITS OF THIS PROJECT BY FEBRUARY 19, 2016. THE AS-BUILTS WILL INCLUDE, BUT NOT LIMITED TO, THE FOLLOWING ITEMS:
 - CULVERTS - SIZE AND INVERTS
 - CONCRETE COLLAR INVERTS
 - BAFFLE BOX - INVERTS AND RIM ELEVATIONS
 - UNDERDRAIN CLEANOUT INVERTS
 - INLETS - INVERTS AND GRATE/RIM ELEVATIONS
 - MANHOLES - INVERTS AND RIM ELEVATIONS

TOPOGRAPHIC SYMBOL LEGEND

- (P) = PLAT
- P.B. = PLAT BOOK
- CONC. = CONCRETE
- MON. = MONUMENT
- R/W = RIGHT-OF-WAY
- FND. = FOUND
- (D) = DEED
- (M) = MEASURED
- PG. = PAGE
- T.B.M. = TEMPORARY BENCHMARK
- O.R.B. = OFFICIAL RECORD BOOK
- PID = PROPERTY IDENTIFICATION NO.
- NO. = NUMBER
- R.C.P. = REINFORCED CONCRETE PIPE
- C.M.P. = CORRUGATED METAL PIPE
- ES = EDGE OF SHELL
- TB = TOP OF BANK
- B.C = BACK OF CURB
- FPL = FLORIDA POWER & LIGHT
- VER. = VERIZON
- CATV = CABLE TELEVISION
- N&D = NAIL AND DISK
- I.P. = IRON PIPE
- I.R. = IRON ROD
- EP = EDGE OF PAVEMENT
- DR. = DRIVE
- U/G = UNDERGROUND
- DRAIN. = DRAINAGE
- M.E.S. = MITERED END SECTION
- EASE. = EASEMENT
- RS = RADIUS
- - NAIL FOUND
- - CONCRETE MONUMENT FOUND
- - IRON ROD & CAP SET
- - IRON ROD FOUND
- ⊕ - IRON PIPE FOUND
- ⊙ - NAIL & DISK FOUND
- ⊖ - BACKFLOW
- + - SIGN
- ⊗ - UTILITY POLE
- ☐ - LIGHT POLE
- ☐ - GUY WIRE
- ⊙ - BENCH MARK SET
- ☒ - SERVICE BOX
- ☒ - MISCELLANEOUS POLE
- ☒ - TRAFFIC SIGNAL SUPPORT
- ☒ - WATER FOUNTAIN/SHOWER
- ⊖ - U/G ELECTRIC
- ⊗ - VALVE
- ⊗ - FIRE HYDRANT
- ⊙ - METER
- ⊙ - SANITARY MANHOLE
- ⊖ - WELL
- ★ - HAND HOLE
- ⊖ - PHONE RISER(VERIZON)
- ☼ - PALM TREE
- ☼ - PINE TREE
- ☼ - OAK TREE

EXISTING SYMBOLS LEGEND

- EXISTING STORM MANHOLE
- ⊖ EXISTING ELECTRIC BOX
- ⊖ EXISTING ELECTRIC MANHOLE
- ⊖ EXISTING GAS VALVE
- ⊖ EXISTING GAS METER
- ▲ EXISTING SIGN
- ⊖ EXISTING MAIL BOX
- EXISTING SURVEY CORNER
- ⊖ EXISTING TRAFFIC BOX
- ☆ EXISTING CONC LIGHT POLE
- ☆ EXISTING LIGHT POST
- ⊖ EXISTING CONC POWER POLE
- ⊖ EXISTING METAL POLE
- ⊖ EXISTING WOOD POWER POLE
- ⊖ EXISTING WOOD POST
- ← EXISTING GUY WIRE
- ⊖ EXISTING SANITARY CLEANOUT
- ⊖ EXISTING SANITARY MANHOLE
- ⊖ EXISTING BUSH
- ⊖ EXISTING BOTTLE BRUSH
- ⊖ EXISTING CHINABERRY
- ⊖ EXISTING CITRUS
- ⊖ EXISTING CHERRY LAUREL
- ⊖ EXISTING EAR
- ▽ EXISTING EVERGREEN
- ⊖ EXISTING OLEANDER
- EXISTING LUGUSTRUM
- ☆ EXISTING JACARANDA
- ▽ EXISTING MAGNOLIA
- ☆ EXISTING MAPLE
- EXISTING OAK
- ☼ EXISTING PALM
- △ EXISTING PINE
- ▽ EXISTING HOLLY
- ⊗ EXISTING CAMPHOR
- ⊖ EXISTING CEDAR
- ⊖ EXISTING SWEET GUM
- ⊖ EXISTING BANYON
- ⊖ EXISTING TELEPHONE BOX
- ⊖ EXISTING TELEPHONE MANHOLE
- ⊖ EXISTING BACKFLOW PREVENTER
- ⊖ EXISTING FIRE HYDRANT
- ⊖ EXISTING WATER METER
- ⊖ EXISTING RECLAIMED WATER METER
- ⊖ EXISTING WATER VALVE
- ⊖ EXISTING RECLAIMED WATER VALVE
- ▽ EXISTING SPRINKLER
- ⊖^{sv} EXISTING SPRINKLER VALVE



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TOWN OF BELLEAIR
PUBLIC WORKS DEPARTMENT
901 PONCE DE LEON BLVD.
BELLEAIR, FL 33756

**BAYVIEW DRIVE
STREET AND DRAINAGE
IMPROVEMENTS**

SUB-CONSULTANTS

Mckim & Creed, Inc.
3802 Ehrlich Road, Suite 306
Tampa, Florida 33624
(813)549-3740

APPROVED BY:

DATE: _____

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:

REVIEWED BY: BWB

DRAWN BY: VES

DESIGNED BY: VES

HORIZONTAL SCALE:

VERTICAL SCALE:

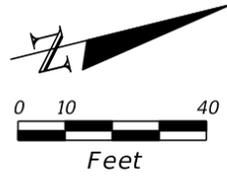
AEP NO.: 104-2881-001

SHEET TITLE

**SWFWMD &
SURVEY NOTES**

SHEET NUMBER

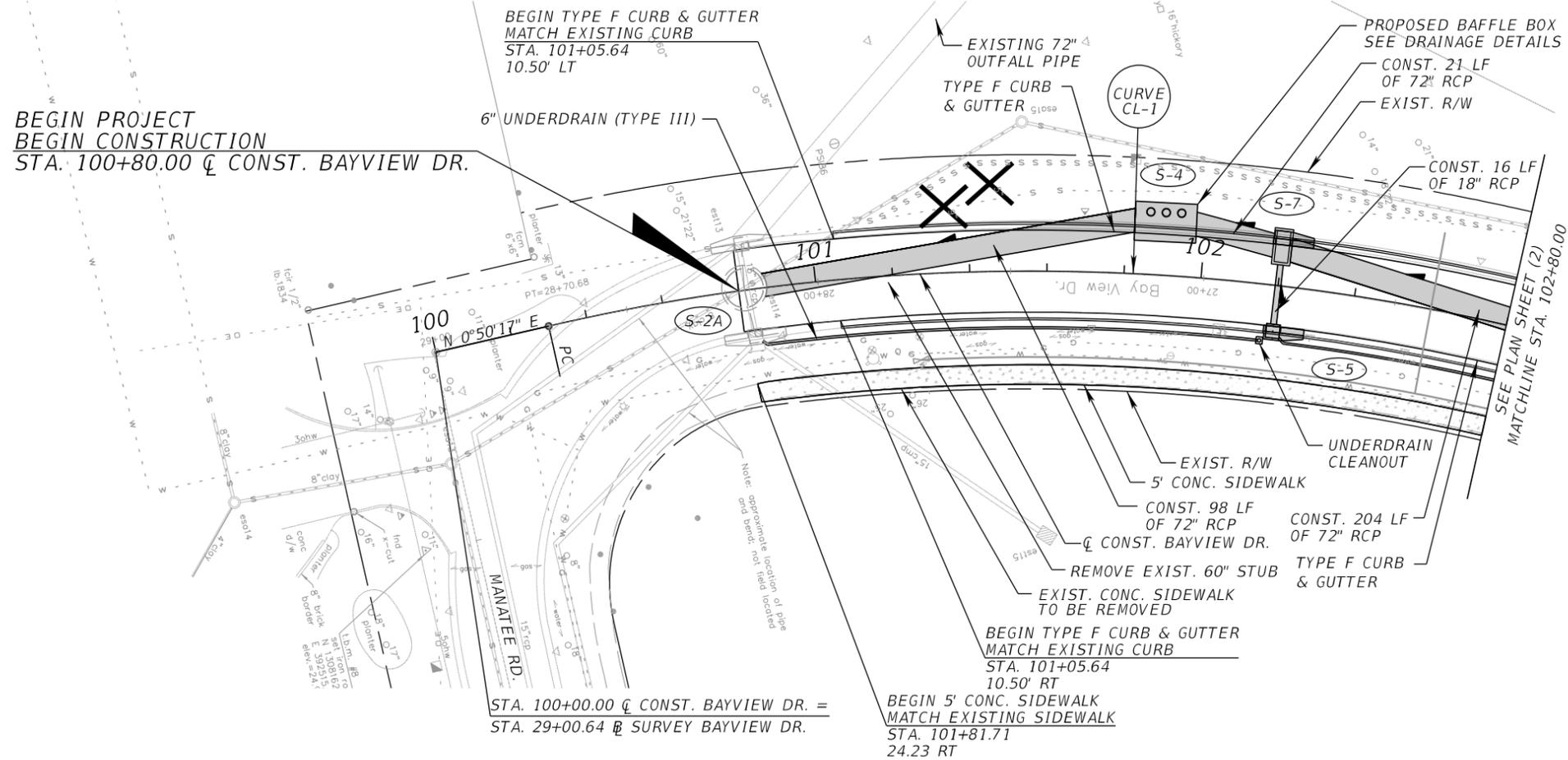
BAYVIEW DRIVE



PLAN SHEET LEGEND

- PROPOSED CONCRETE (DRIVEWAYS, 6" THK.; SIDEWALKS, 4" THK.)
- EXISTING DRWY PAVERS TO BE REMOVED AND RESET
- REMOVE EXISTING SIDEWALK
- REMOVE STORM STRUCTURE AND/OR PIPE
- PLUG AND FILL EXISTING PIPE
- REMOVE EXISTING TREE
- PROPOSED RCP
- UNDERDRAIN CLEANOUT

BEGIN PROJECT
BEGIN CONSTRUCTION
STA. 100+80.00 @ CONST. BAYVIEW DR.



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VERTICAL SCALE:

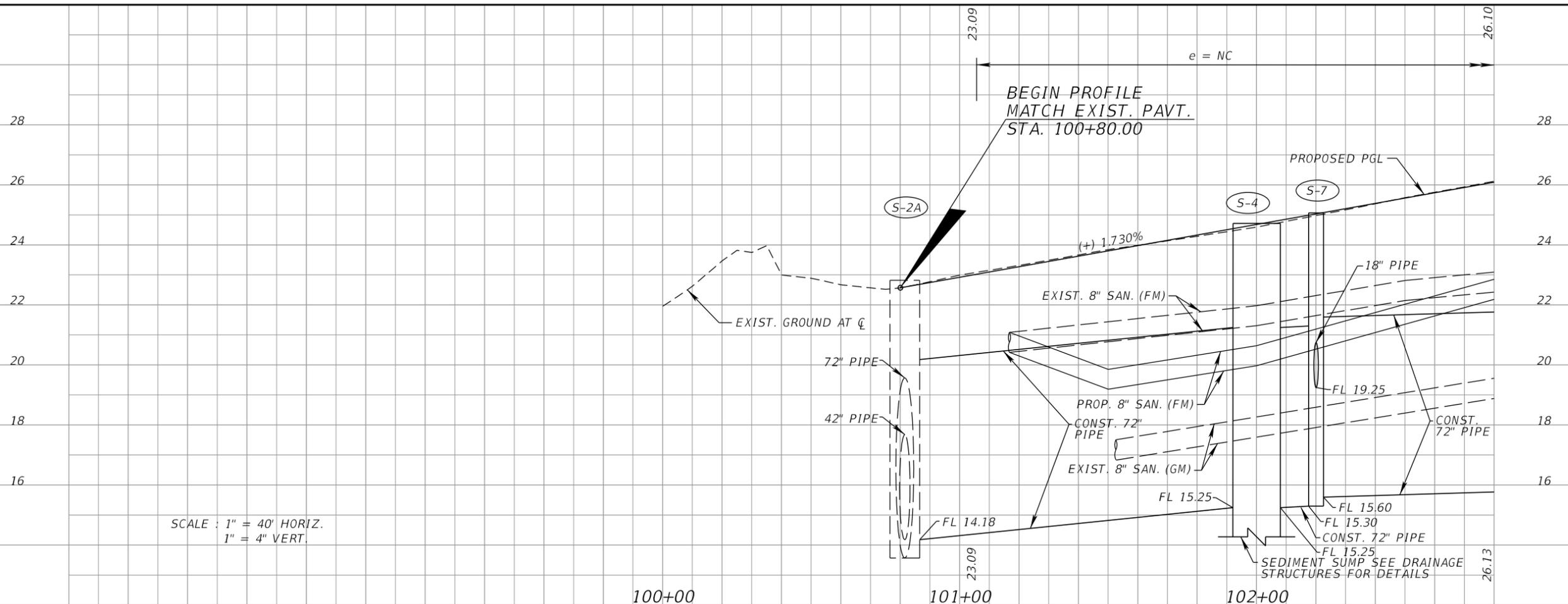
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SHEET TITLE

PLAN/PROFILE SHEET (1)
BAYVIEW DRIVE
STA. 100+80 TO STA. 102+80

SHEET NUMBER

15



BAYVIEW DRIVE



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VERTICAL SCALE:

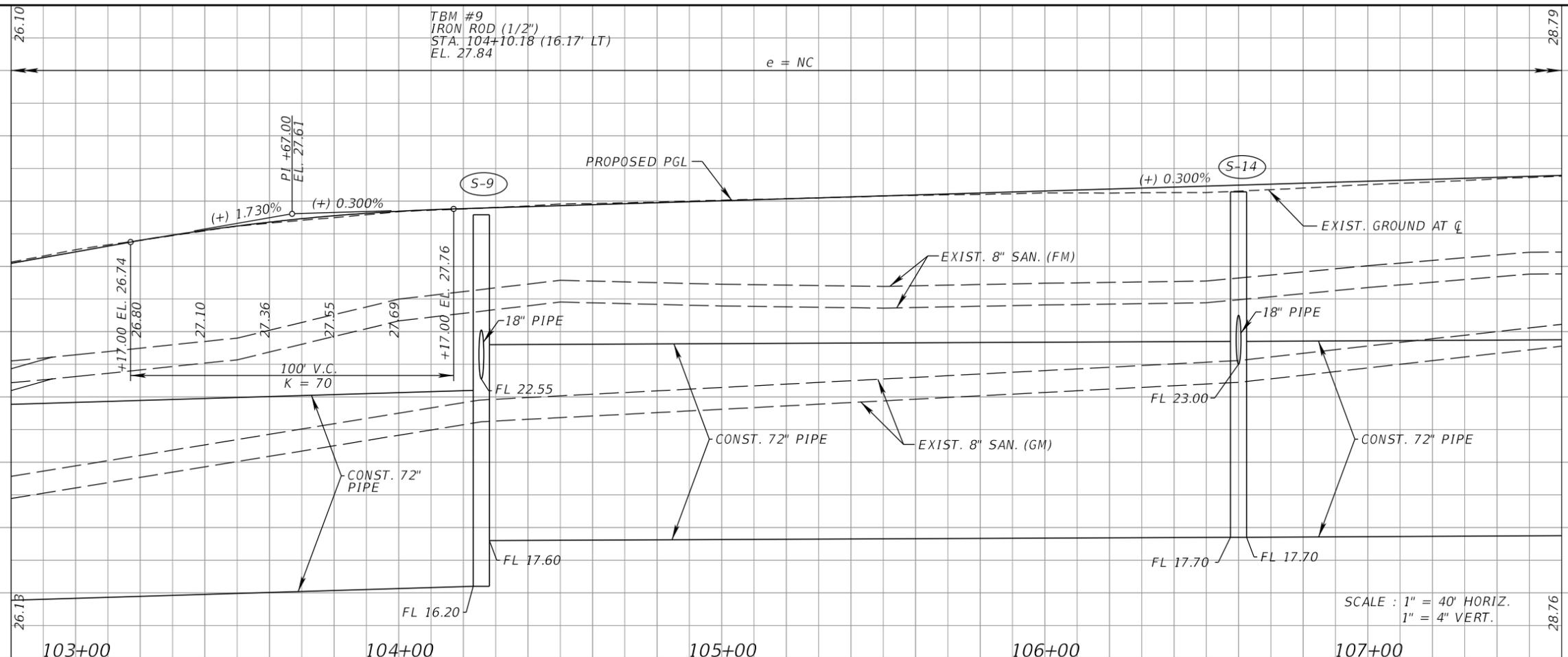
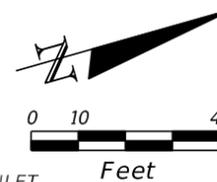
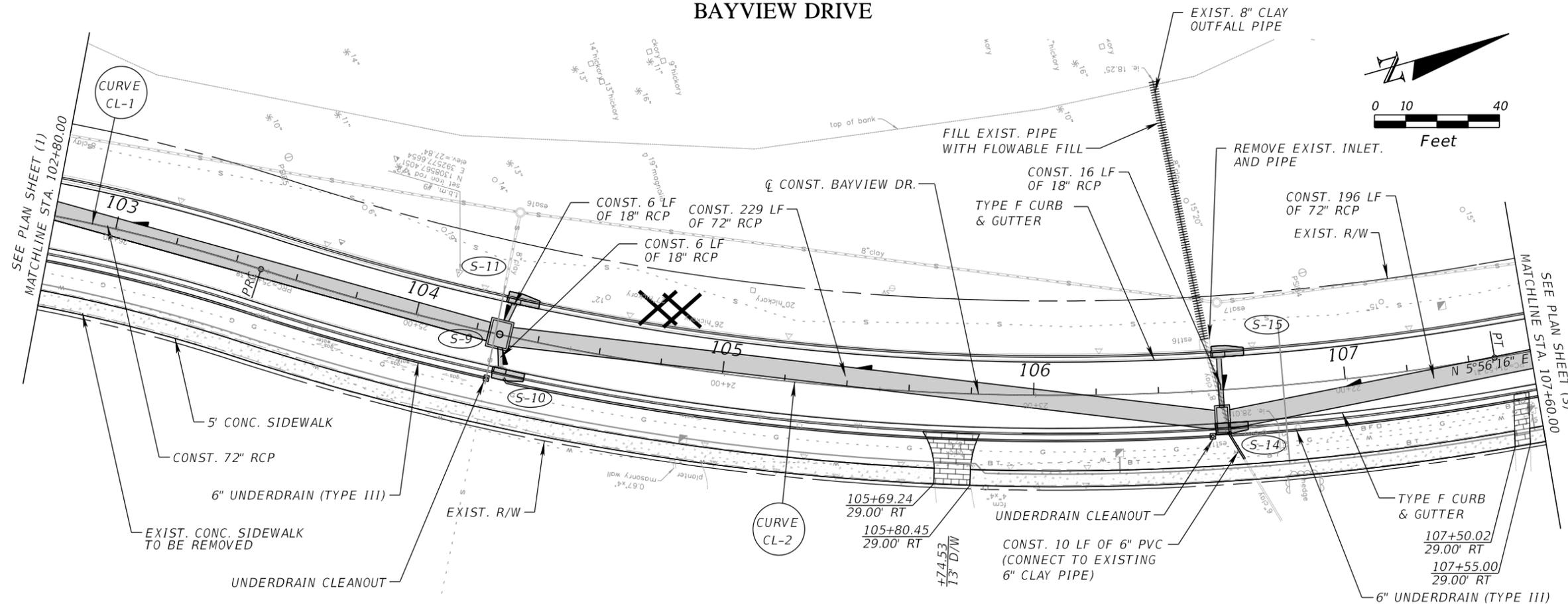
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SHEET TITLE

PLAN/PROFILE SHEET (2)
BAYVIEW DRIVE
STA. 102+80 TO STA. 107+60

SHEET NUMBER

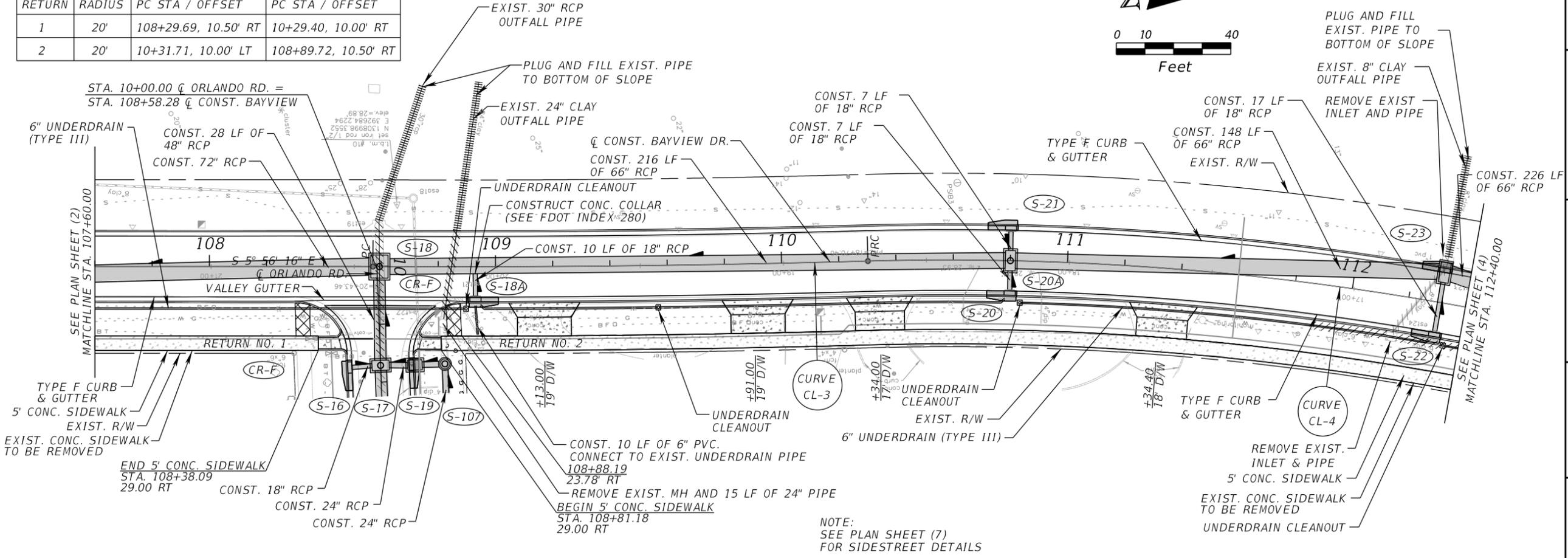
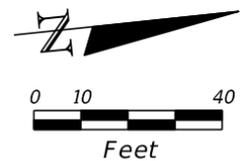
16



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

BAYVIEW DRIVE @ ORLANDO ROAD			
RETURN	RADIUS	PC STA / OFFSET	PT STA / OFFSET
1	20'	108+29.69, 10.50' RT	10+29.40, 10.00' RT
2	20'	10+31.71, 10.00' LT	108+89.72, 10.50' RT

BAYVIEW DRIVE



NOTE:
SEE PLAN SHEET (7)
FOR SIDESTREET DETAILS



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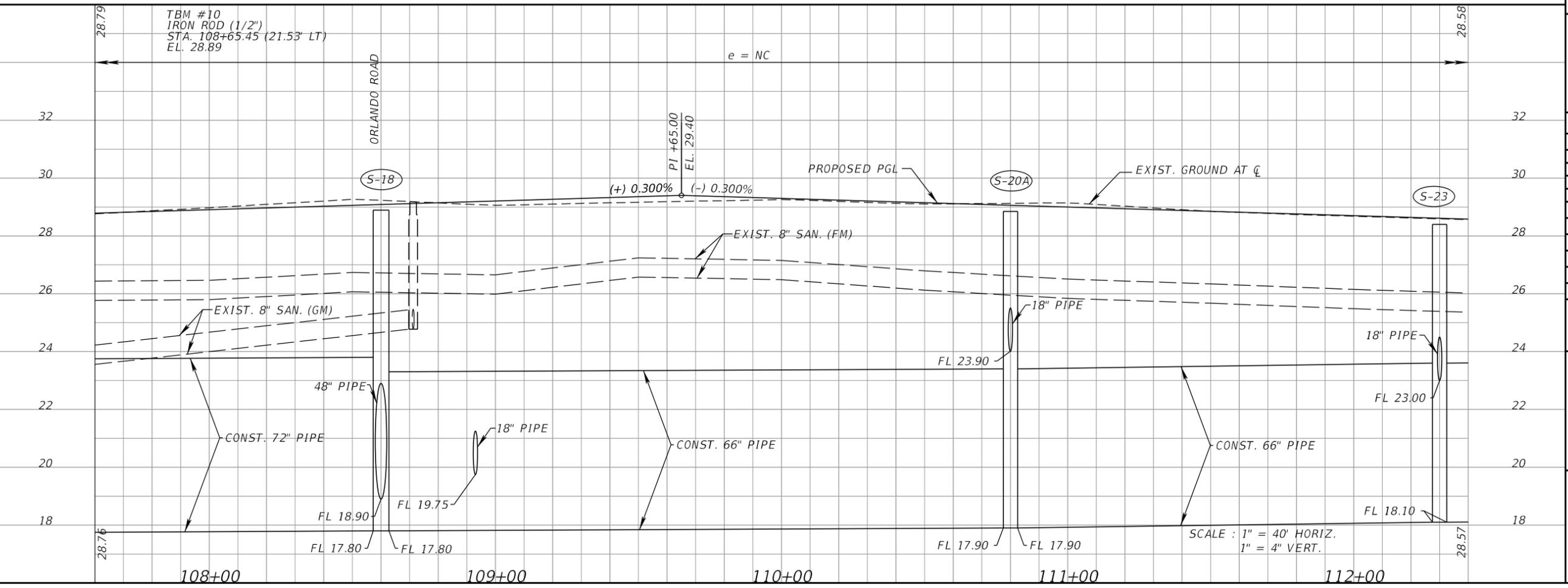
REVISIONS		
NO.	DESCRIPTION	DATE

DATE ISSUED:
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DESIGNED BY: VES
HORIZONTAL SCALE:
VERTICAL SCALE:
AEP NO.: 104-2881-001

SHEET TITLE
PLAN/PROFILE SHEET (3)
BAYVIEW DRIVE
STA. 107+60 TO STA. 112+40

SHEET NUMBER

17



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

BAYVIEW DRIVE



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VERTICAL SCALE:

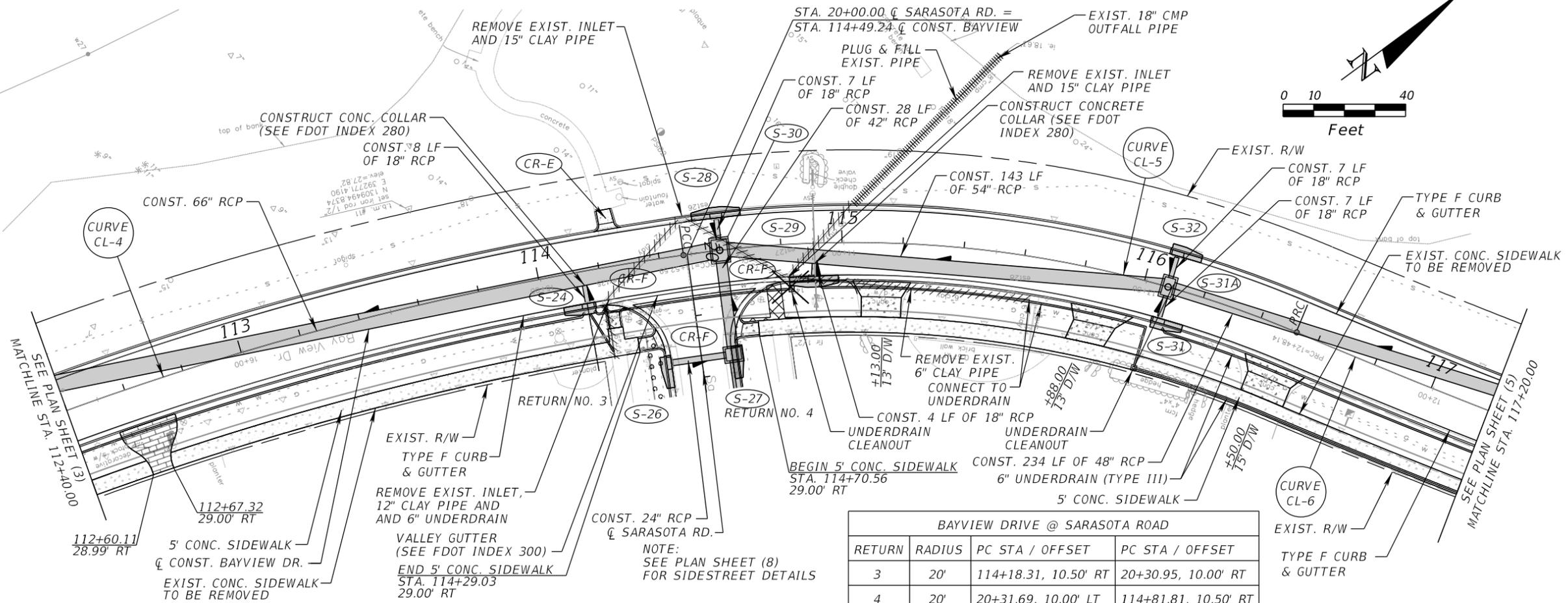
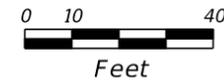
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SHEET TITLE

PLAN/PROFILE SHEET (4)
BAYVIEW DRIVE
STA. 112+40 TO STA. 117+20

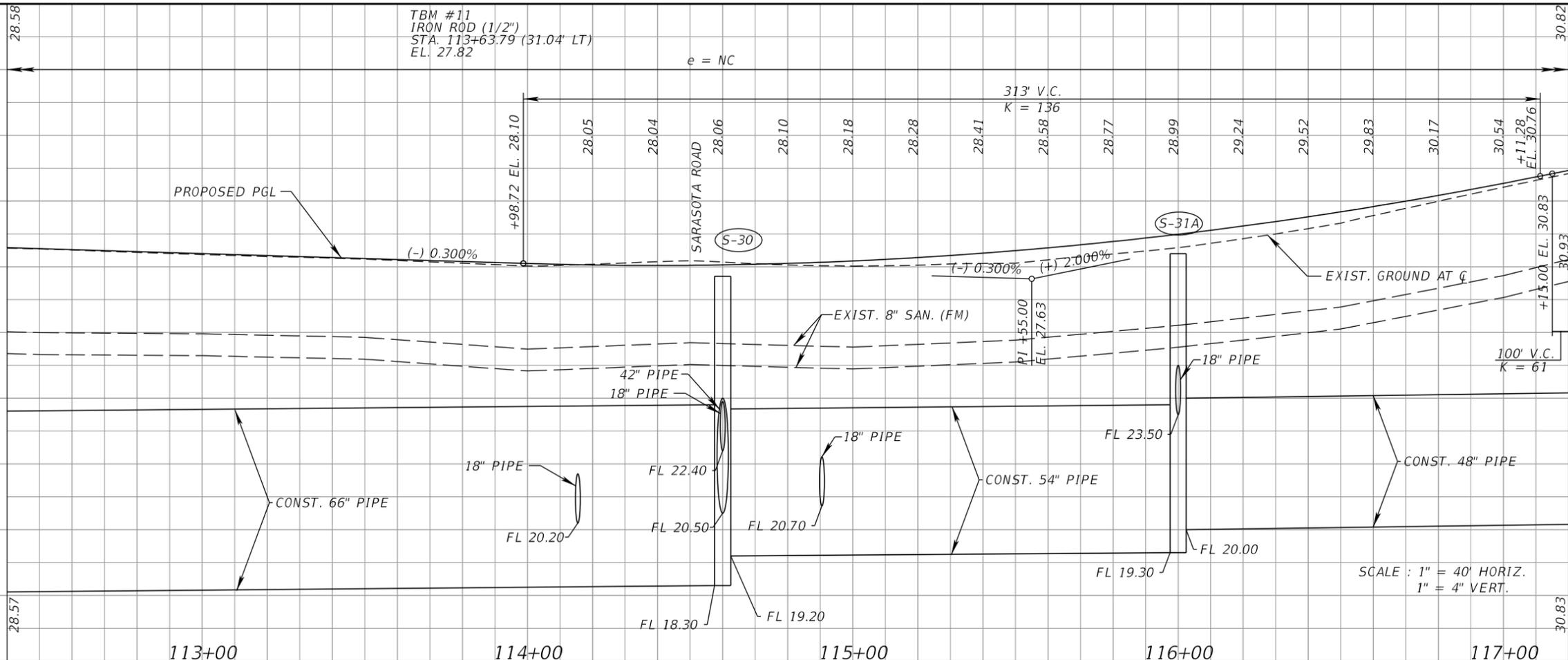
SHEET NUMBER

18



BAYVIEW DRIVE @ SARASOTA ROAD			
RETURN	RADIUS	PC STA / OFFSET	PT STA / OFFSET
3	20'	114+18.31, 10.50' RT	20+30.95, 10.00' RT
4	20'	20+31.69, 10.00' LT	114+81.81, 10.50' RT

NOTE:
SEE PLAN SHEET (8)
FOR SIDESTREET DETAILS



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

BAYVIEW DRIVE @ OCALA ROAD			
RETURN	RADIUS	PC STA / OFFSET	PC STA / OFFSET
5	20'	118+30.77, 10.50' RT	30+22.89, 10.50' RT
6	20'	30+39.84, 10.50' LT	118+92.14, 10.50' RT

BAYVIEW DRIVE



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HORIZONTAL SCALE:

VERTICAL SCALE:

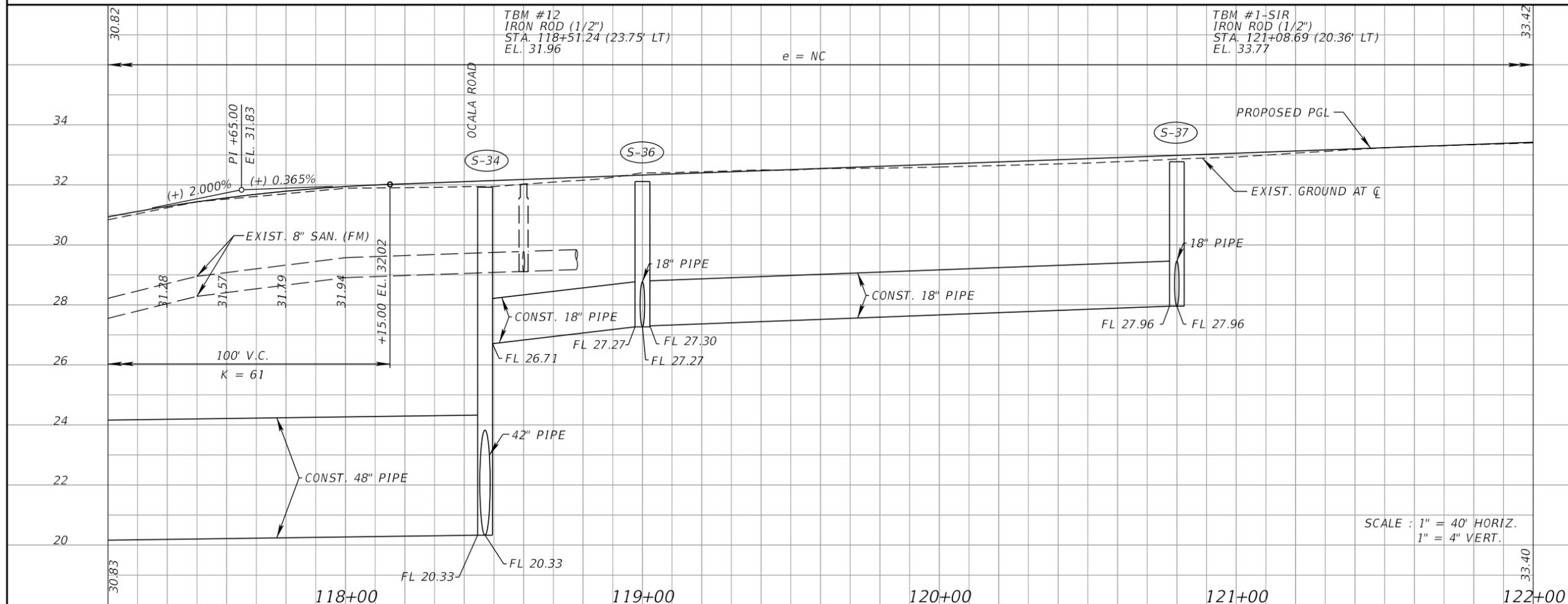
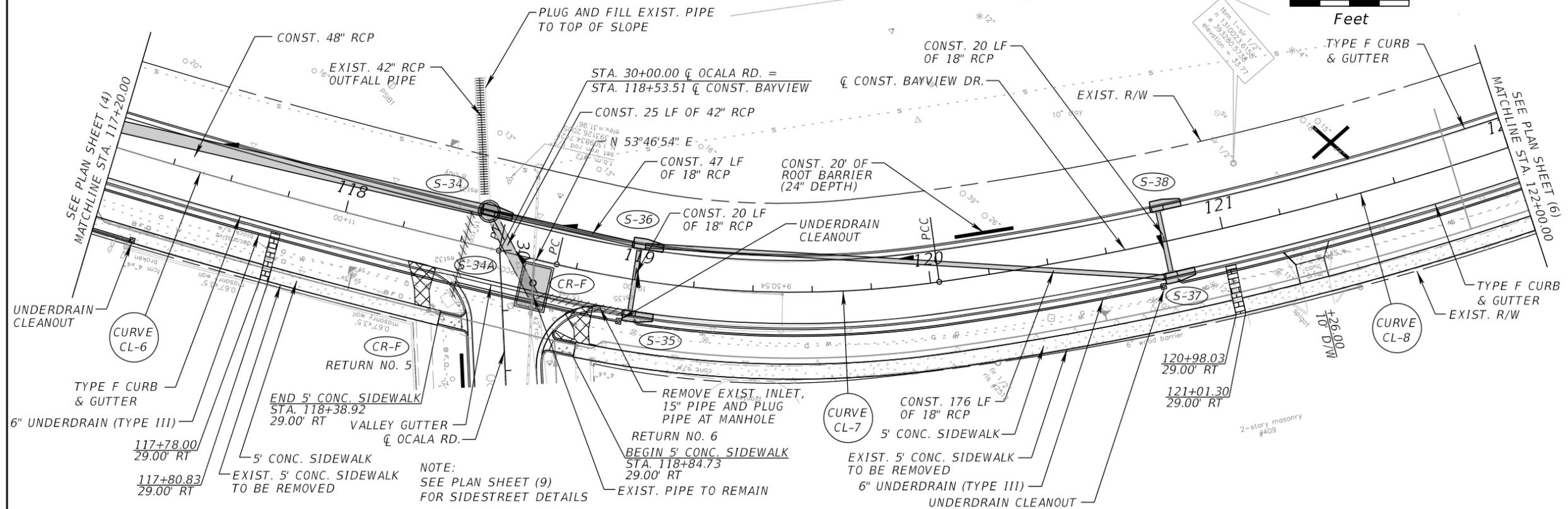
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SHEET TITLE

PLAN/PROFILE SHEET (5)
BAYVIEW DRIVE
STA. 117+20 TO STA. 122+00

SHEET NUMBER

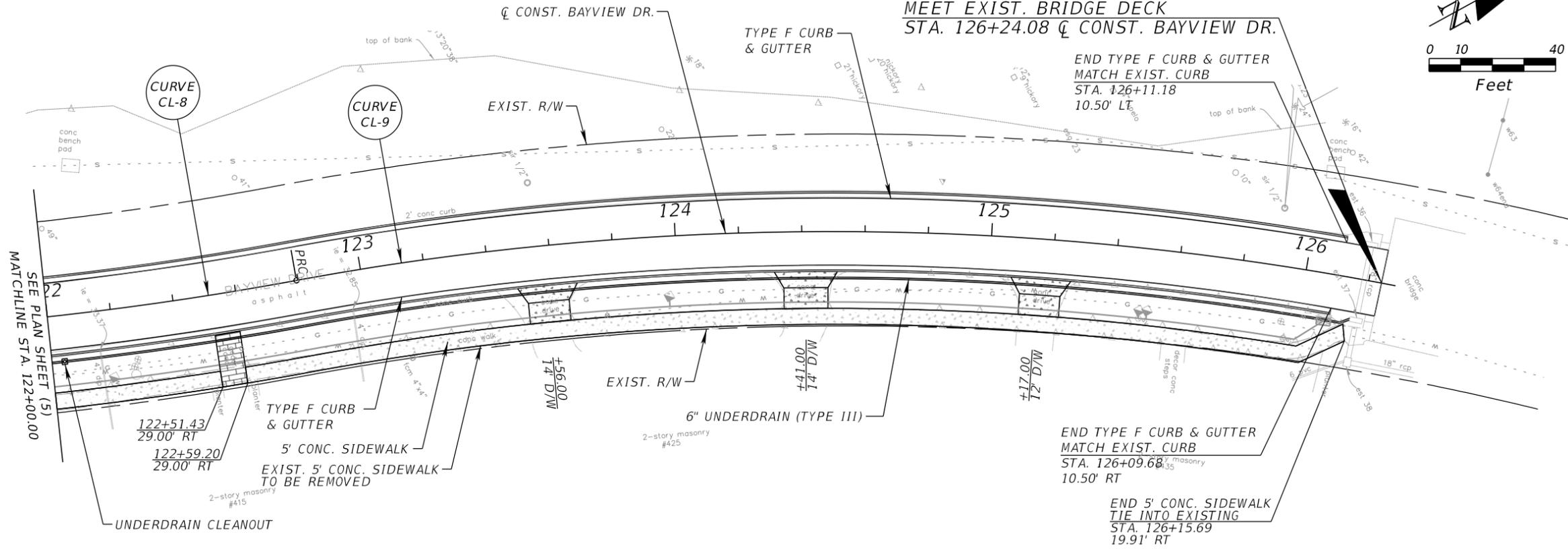
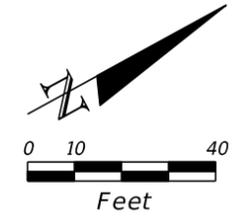
19



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

BAYVIEW DRIVE

END PROJECT
 END CONSTRUCTION
 MEET EXIST. BRIDGE DECK
 STA. 126+24.08 \bar{C} CONST. BAYVIEW DR.



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 BELLEAIR, FL 33756

**BAYVIEW DRIVE
 STREET AND DRAINAGE
 IMPROVEMENTS**

SUB-CONSULTANTS

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 Tampa, Florida 33624
 (813)549-3740

APPROVED BY:

BRET W. BENNETT, P.E.
 FLA. REG. NO. 53977
 DATE: _____

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:

REVIEWED BY: BWB

DRAWN BY: VES

DESIGNED BY: VES

HORIZONTAL SCALE:

VERTICAL SCALE:

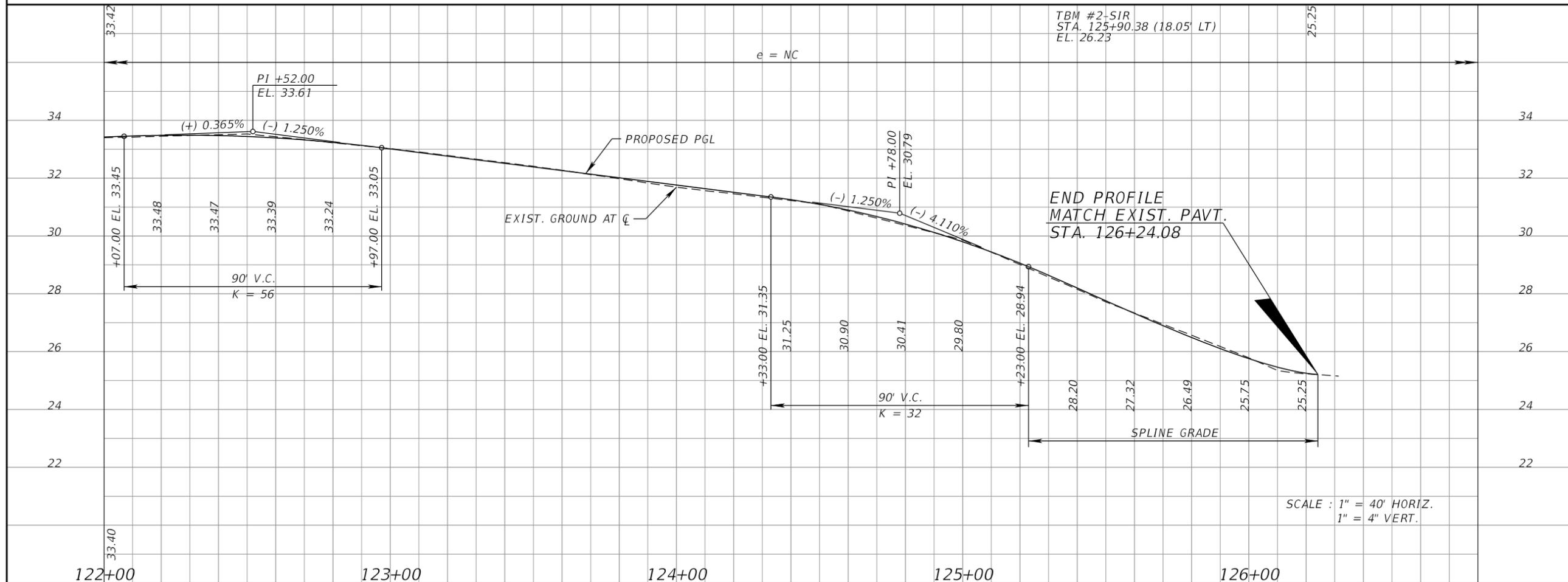
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SHEET TITLE

PLAN/PROFILE SHEET (6)
 BAYVIEW DRIVE
 STA. 122+00 TO STA. 126+24

SHEET NUMBER

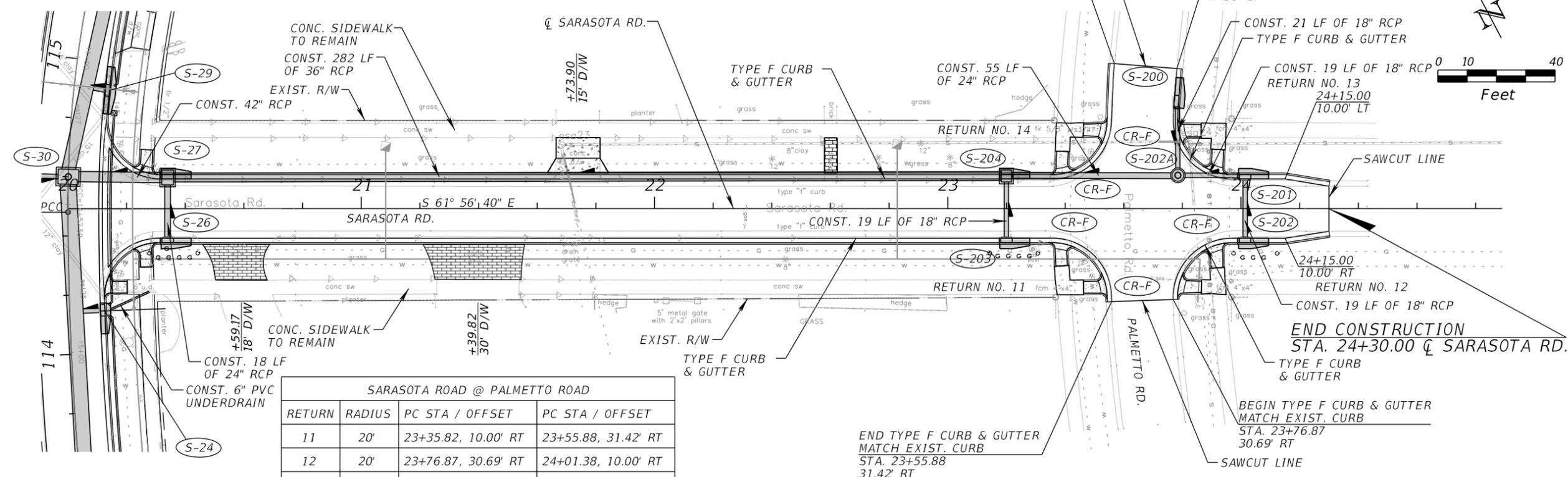
20



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

SARASOTA ROAD

NOTE:
SEE PLAN SHEET (4)
FOR BAYVIEW DR. DETAILS



SARASOTA ROAD @ PALMETTO ROAD			
RETURN	RADIUS	PC STA / OFFSET	PC STA / OFFSET
11	20'	23+35.82, 10.00' RT	23+55.88, 31.42' RT
12	20'	23+76.87, 30.69' RT	24+01.38, 10.00' RT
13	20'	23+78.12, 47.31' LT	24+01.38, 10.00' LT
14	20'	23+35.83, 10.00' LT	23+56.80, 48.98' LT



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APPROVED BY:

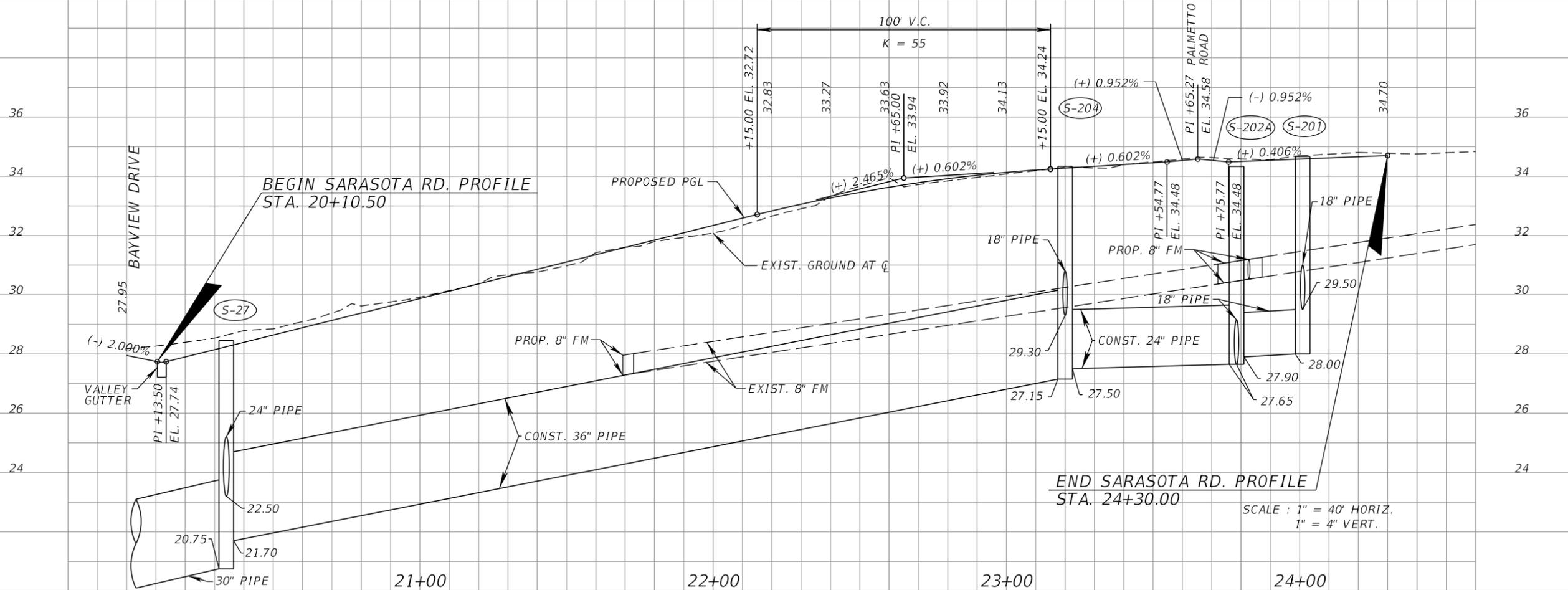
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REVISIONS		
NO.	DESCRIPTION	DATE

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HORIZONTAL SCALE:
VERTICAL SCALE:
AEP NO.: 104-2881-001

SHEET TITLE
**PLAN/PROFILE SHEET (8)
SARASOTA ROAD
STA. 20+11 TO STA. 24+30**

SHEET NUMBER
22



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

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HORIZONTAL SCALE:

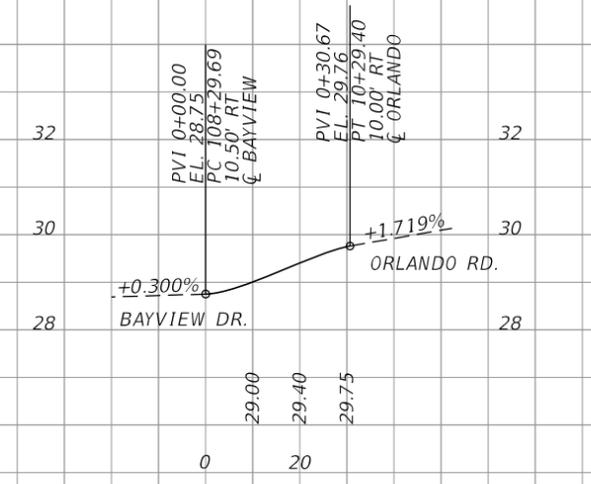
VERTICAL SCALE:

AEP NO.: 104-2881-001

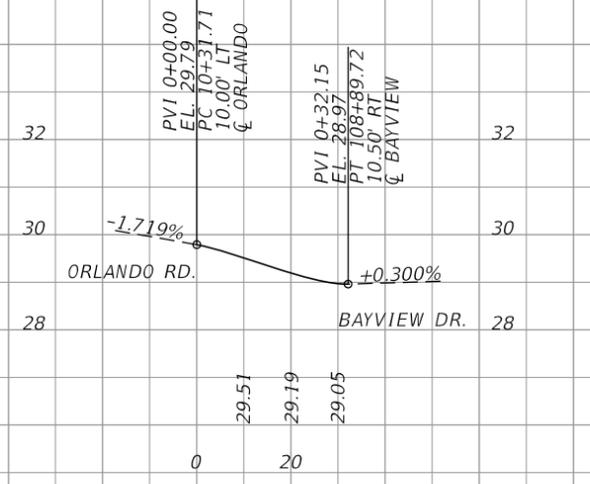
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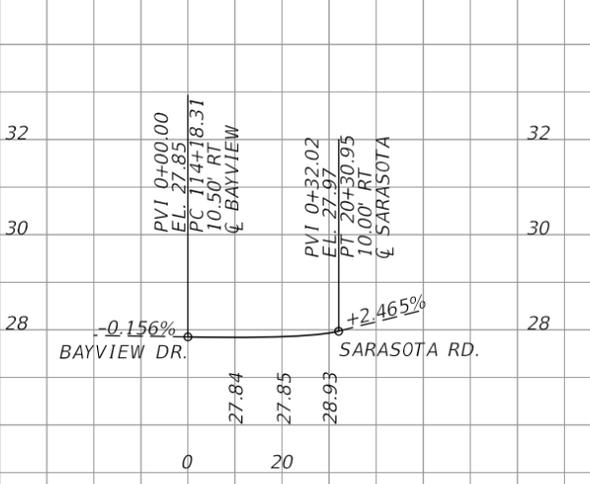
SHEET NUMBER



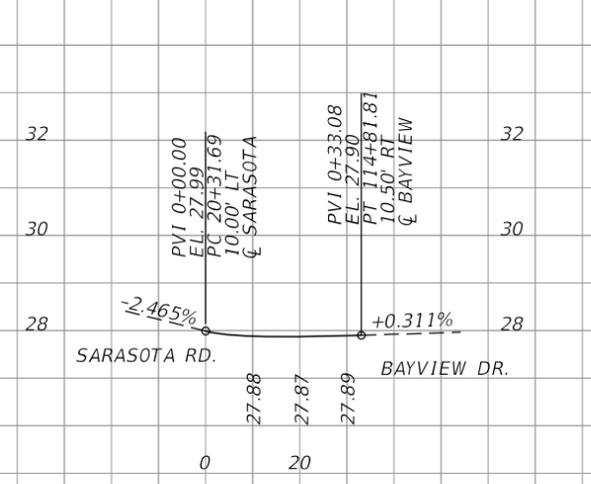
BAYVIEW DR AND ORLANDO RD - SOUTHEAST
 RETURN NO. 1
 (PLAN/PROFILE SHEET 3)



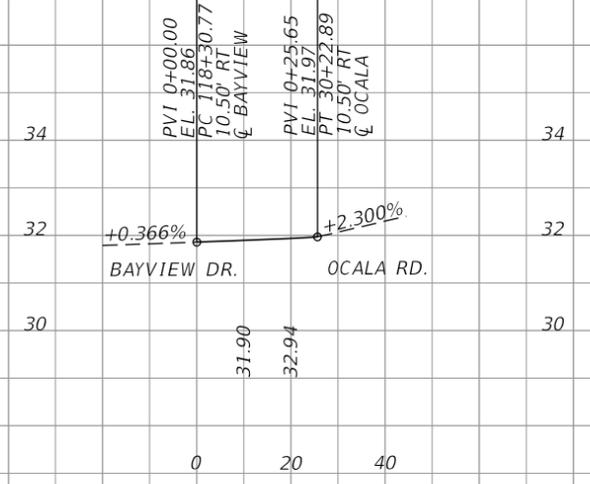
BAYVIEW DR AND ORLANDO RD - NORTHEAST
 RETURN NO. 2
 (PLAN/PROFILE SHEET 3)



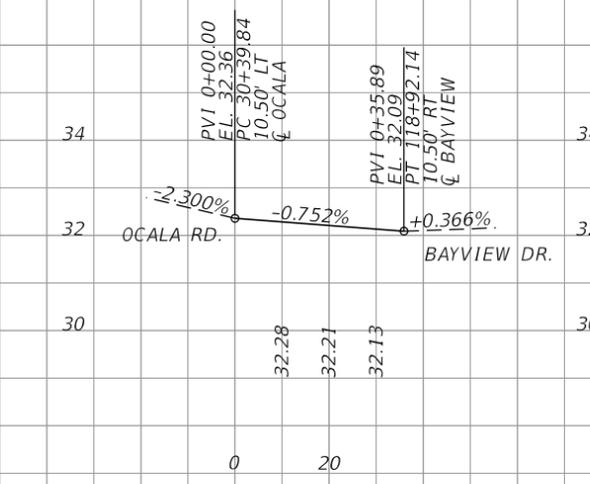
BAYVIEW DR AND SARASOTA RD - SOUTHEAST
 RETURN NO. 3
 (PLAN/PROFILE SHEET 4)



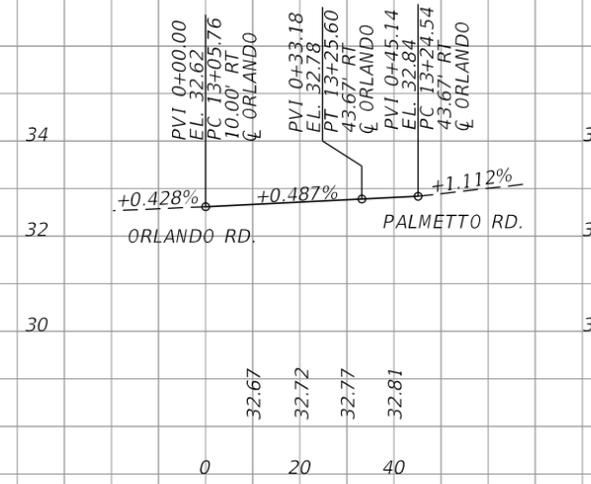
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 RETURN NO. 4
 (PLAN/PROFILE SHEET 4)



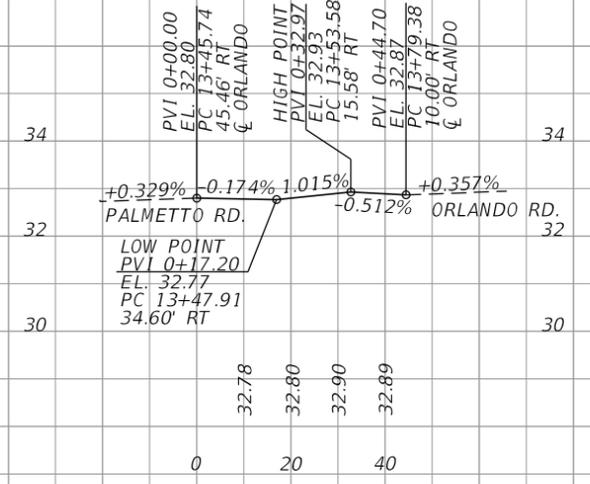
BAYVIEW DR AND OCALA RD - SOUTHEAST
 RETURN NO. 5
 (PLAN/PROFILE SHEET 5)



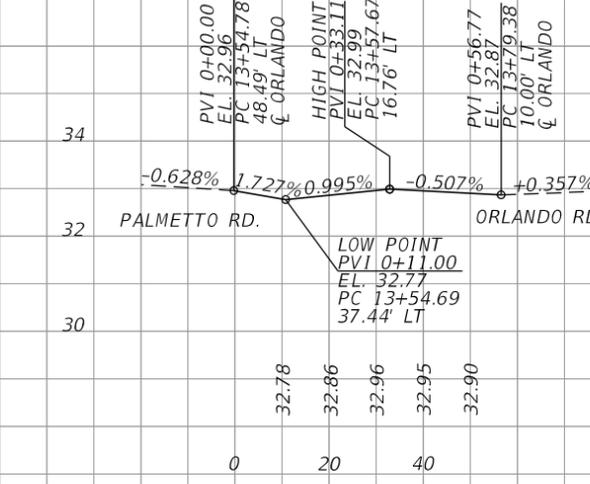
BAYVIEW DR AND OCALA RD - NORTHEAST
 RETURN NO. 6
 (PLAN/PROFILE SHEET 5)



ORLANDO RD AND PALMETTO RD - SOUTHWEST
 RETURN NO. 7
 (PLAN/PROFILE SHEET 7)



ORLANDO RD AND PALMETTO RD - SOUTHEAST
 RETURN NO. 8
 (PLAN/PROFILE SHEET 7)



ORLANDO RD AND PALMETTO RD - NORTHEAST
 RETURN NO. 9
 (PLAN/PROFILE SHEET 7)

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**BAYVIEW DRIVE
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IMPROVEMENTS**

SUB-CONSULTANTS

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3802 Ehrlich Road, Suite 306
Tampa, Florida 33624
(813)549-3740

APPROVED BY:

BRET W. BENNETT, P.E.
FLA. REG. NO. 53977
DATE: _____

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: _____

REVIEWED BY: BWB

DRAWN BY: VES

DESIGNED BY: VES

HORIZONTAL SCALE: _____

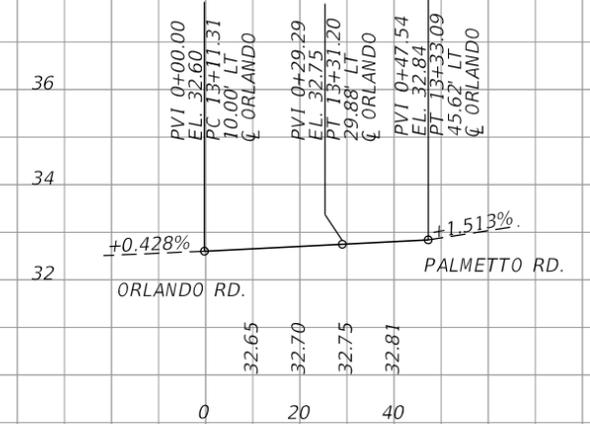
VERTICAL SCALE: _____

AEP NO.: 104-2881-001

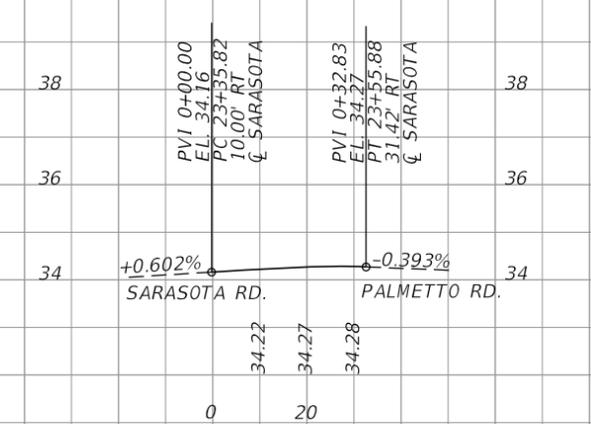
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SPECIAL PROFILES (2)

SHEET NUMBER



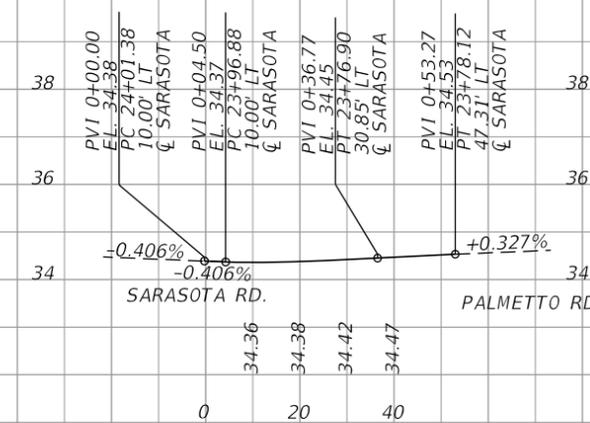
ORLANDO RD AND PALMETTO RD - NORTHWEST



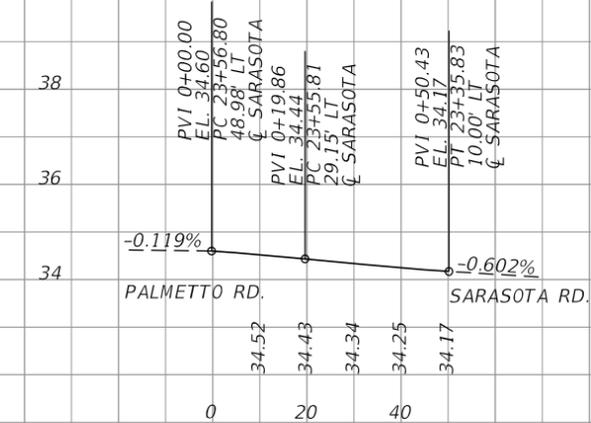
SARASOTA RD AND PALMETTO RD - SOUTHWEST



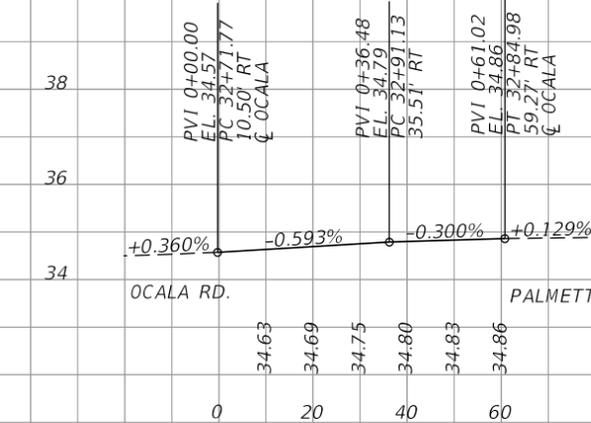
SARASOTA RD AND PALMETTO RD - SOUTHEAST



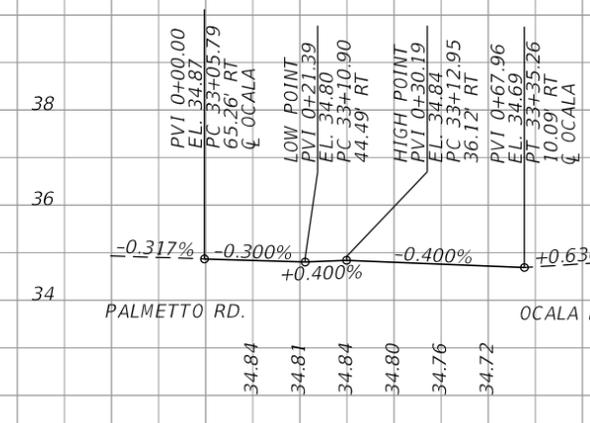
SARASOTA RD AND PALMETTO RD - NORTHEAST



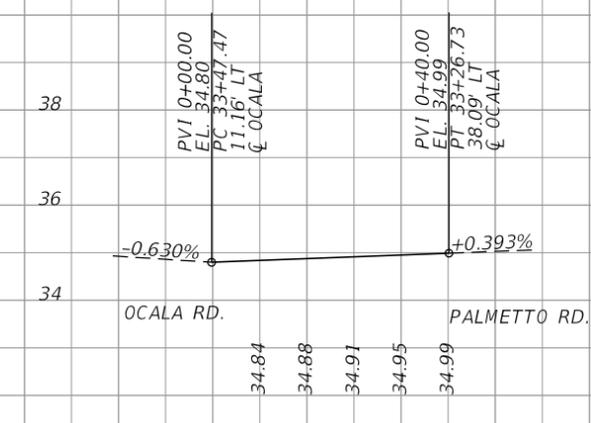
SARASOTA RD AND PALMETTO RD - NORTHWEST



OCALA RD AND PALMETTO RD - SOUTHWEST



OCALA RD AND PALMETTO RD - SOUTHEAST



OCALA RD AND PALMETTO RD - NORTHEAST



OCALA RD AND PALMETTO RD - NORTHWEST



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 FLA. REG. NO. 47652
 DATE: _____

REVISIONS

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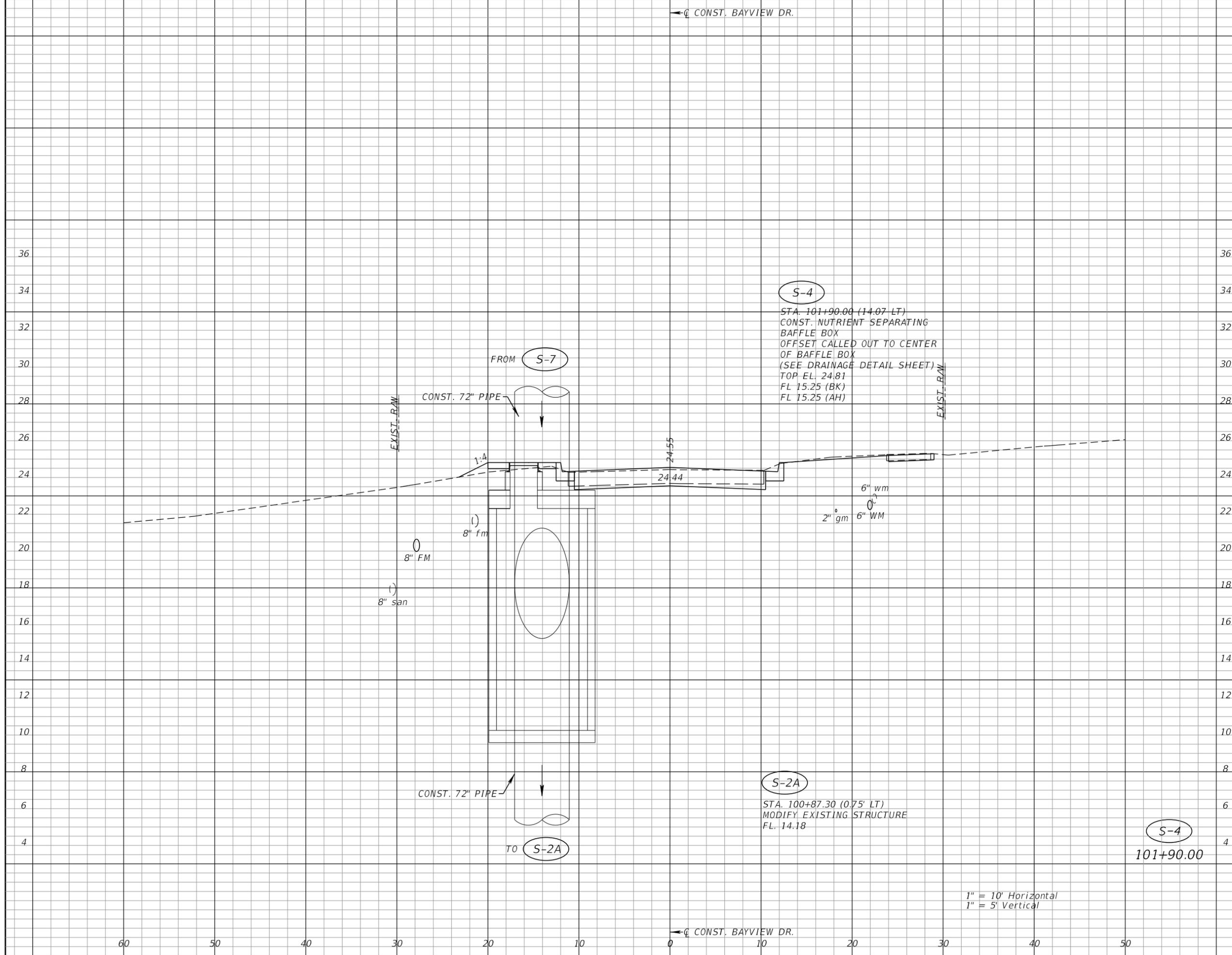
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 DRAWN BY: DJ
 DESIGNED BY: DJ
 HORIZONTAL SCALE: _____
 VERTICAL SCALE: _____
 AEP NO.: 104-2881-001

SHEET TITLE

DRAINAGE CROSS SECTIONS BAYVIEW DRIVE

SHEET NUMBER

26



1" = 10' Horizontal
 1" = 5' Vertical



**BAYVIEW DRIVE
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HORIZONTAL SCALE:

VERTICAL SCALE:

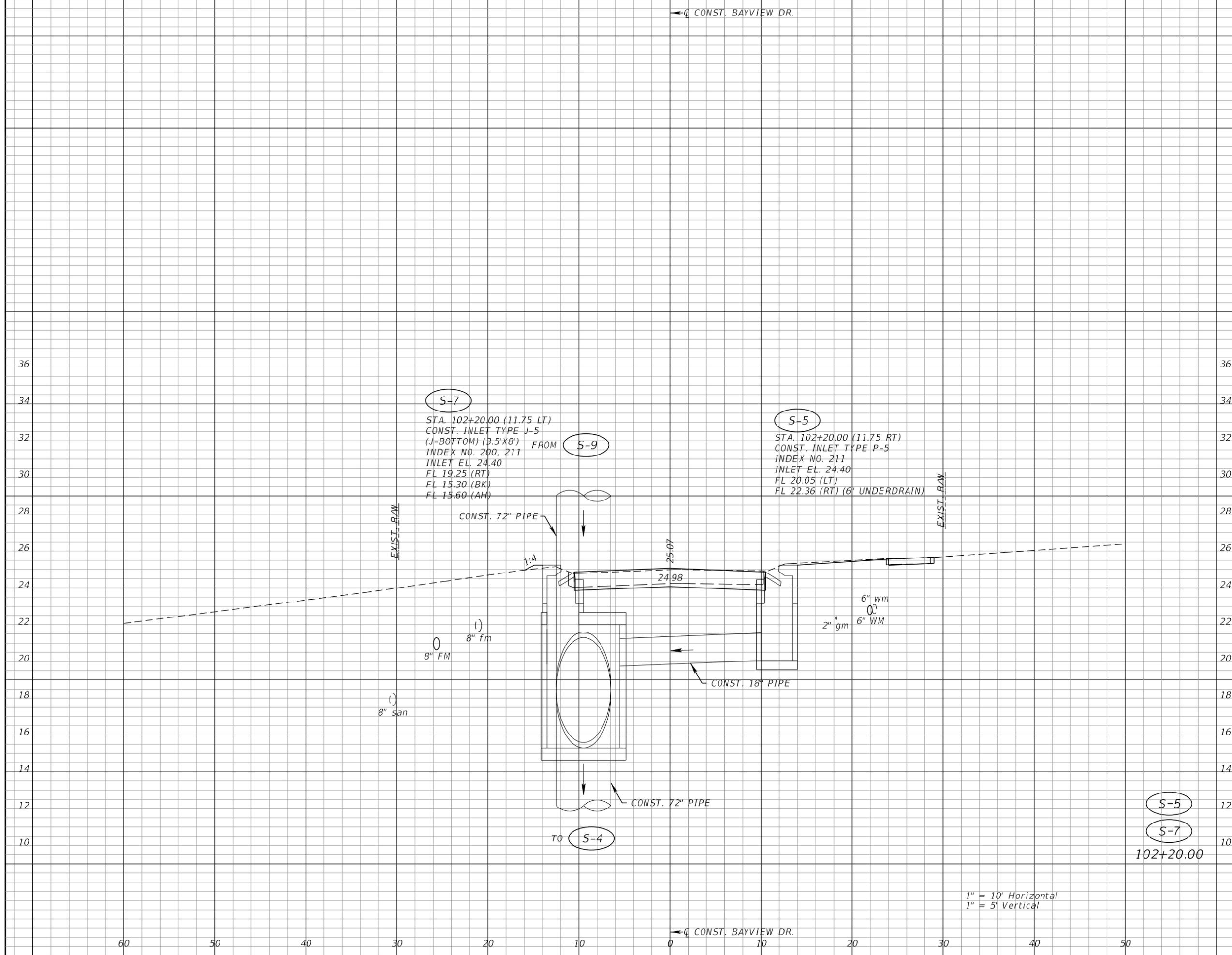
AEP NO.: 104-2881-001

SHEET TITLE

**DRAINAGE CROSS SECTIONS
 BAYVIEW DRIVE**

SHEET NUMBER

27





**BAYVIEW DRIVE
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REVISIONS

NO.	DESCRIPTION	DATE

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DESIGNED BY: DJ

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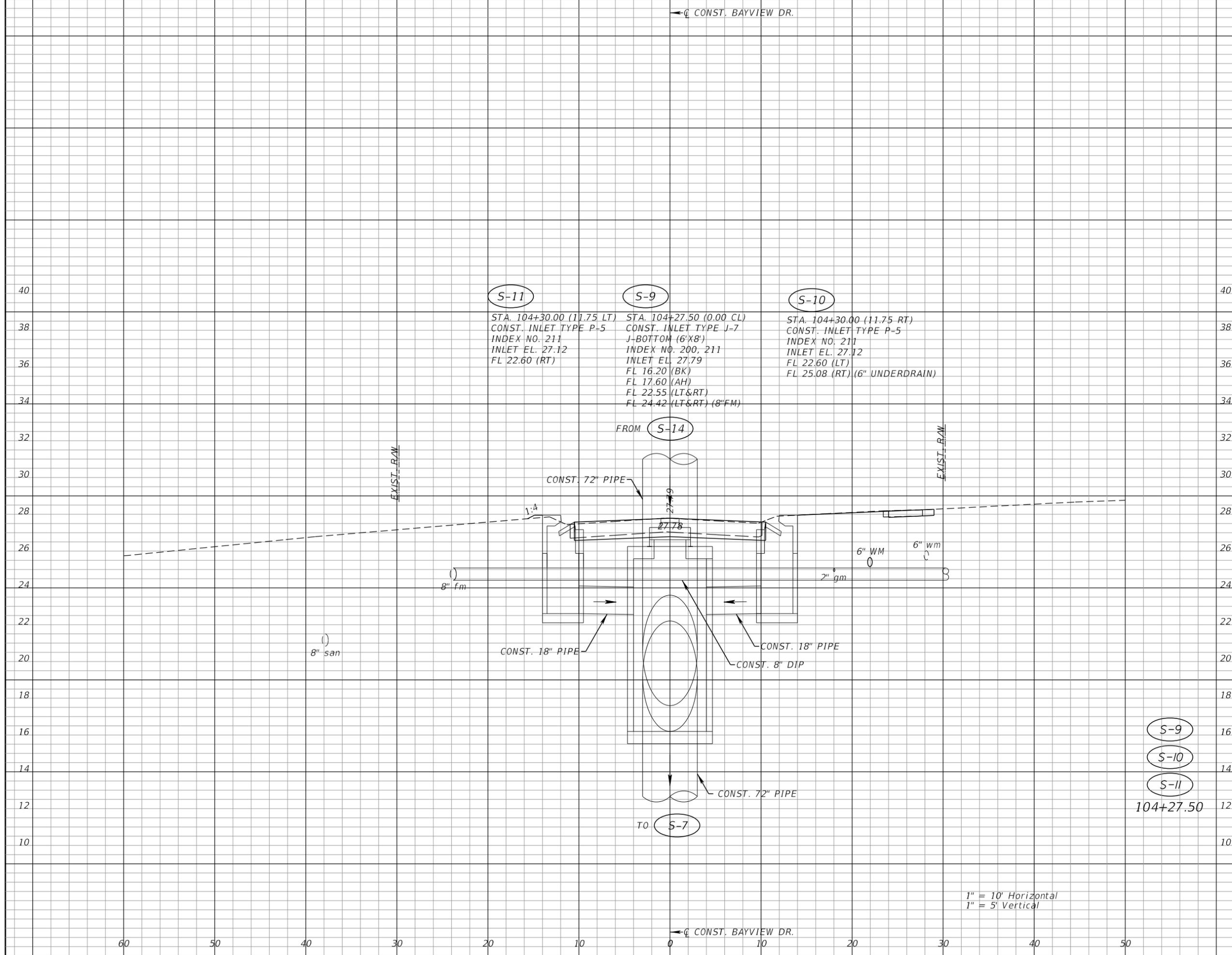
VERTICAL SCALE:

AEP NO.: 104-2881-001

SHEET TITLE

**DRAINAGE CROSS SECTIONS
 BAYVIEW DRIVE**

SHEET NUMBER



1" = 10' Horizontal
 1" = 5' Vertical

S-9
 S-10
 S-11
 104+27.50



**BAYVIEW DRIVE
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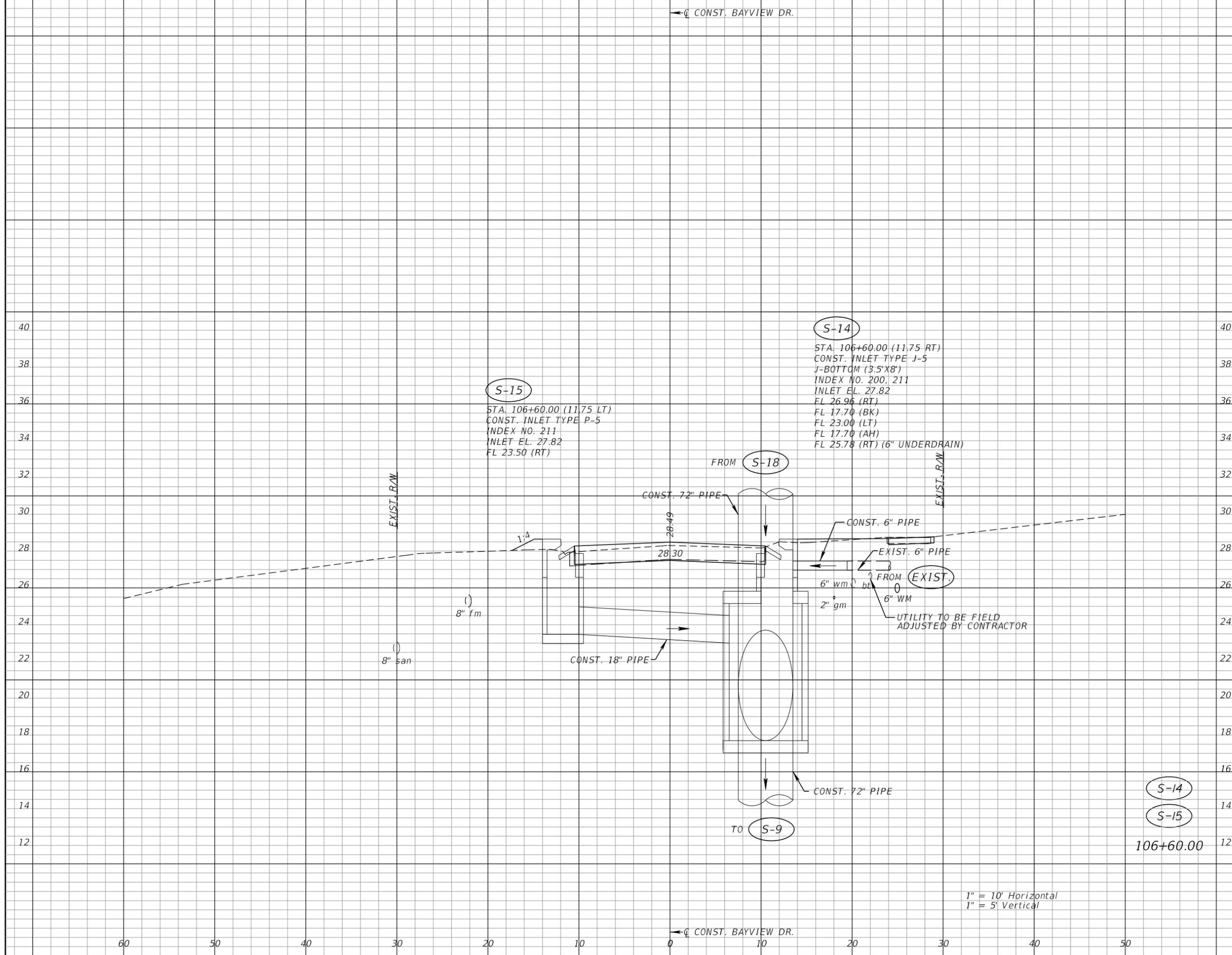
AEP NO.: 104-2881-001

SHEET TITLE

**DRAINAGE CROSS SECTIONS
BAYVIEW DRIVE**

SHEET NUMBER

29



S-14

STA. 106+60.00 (11.75 RT)
CONST. INLET TYPE J-5
J-BOTTOM (3.5'X8')
INDEX NO. 200, 211
INLET EL. 27.82
FL 26.96 (RT)
FL 17.70 (BK)
FL 23.00 (LT)
FL 17.70 (AH)
FL 25.78 (RT) (6" UNDERDRAIN)

S-15

STA. 106+60.00 (11.75 LT)
CONST. INLET TYPE P-5
INDEX NO. 211
INLET EL. 27.82
FL 23.50 (RT)

S-9

S-14

S-15

106+60.00

1" = 10' Horizontal
1" = 5' Vertical

← CONST. BAYVIEW DR.

60 50 40 30 20 10 0 10 20 30 40 50



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IMPROVEMENTS**

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HORIZONTAL SCALE:

VERTICAL SCALE:

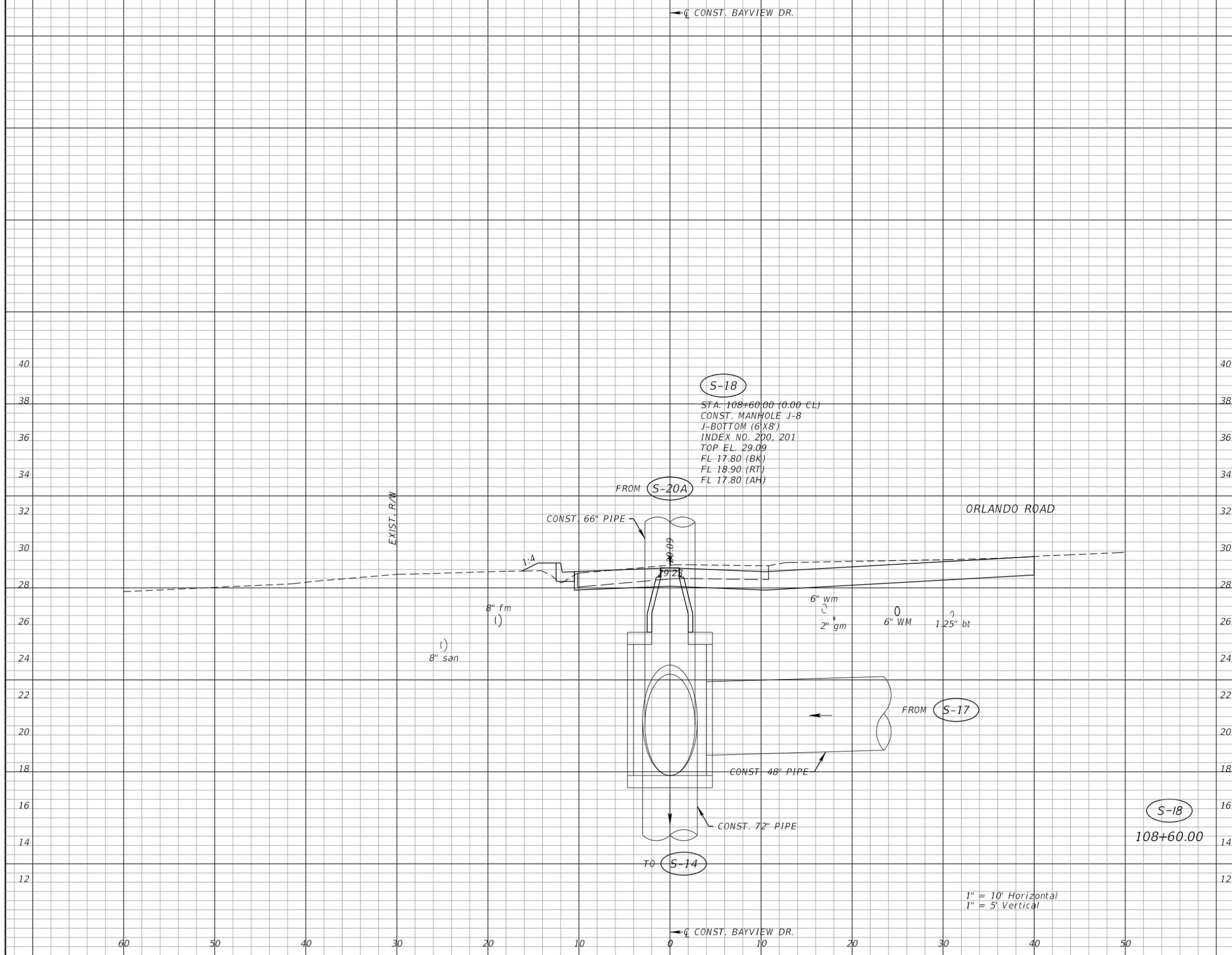
AEP NO.: 104-2881-001

SHEET TITLE

**DRAINAGE CROSS SECTIONS
BAYVIEW DRIVE**

SHEET NUMBER

30



S-18

STA. 108+60.00 (0.00 CL)
CONST. MANHOLE J-8
J-BOTTOM (6'X8')
INDEX NO. 200, 201
TOP EL. 29.09
FL 17.80 (BK)
FL 18.90 (RT)
FL 17.80 (AH)

FROM **S-20A**

CONST. 66" PIPE

ORLANDO ROAD

EXIST. R/W

8" fm
(1)

(1)
8" san

6" wm
2" gm
6" WM
1.25" bt

FROM **S-17**

CONST. 48" PIPE

CONST. 72" PIPE

TO **S-14**

S-18

108+60.00

1" = 10' Horizontal
1" = 5' Vertical

← Q CONST. BAYVIEW DR.

60 50 40 30 20 10 0 10 20 30 40 50

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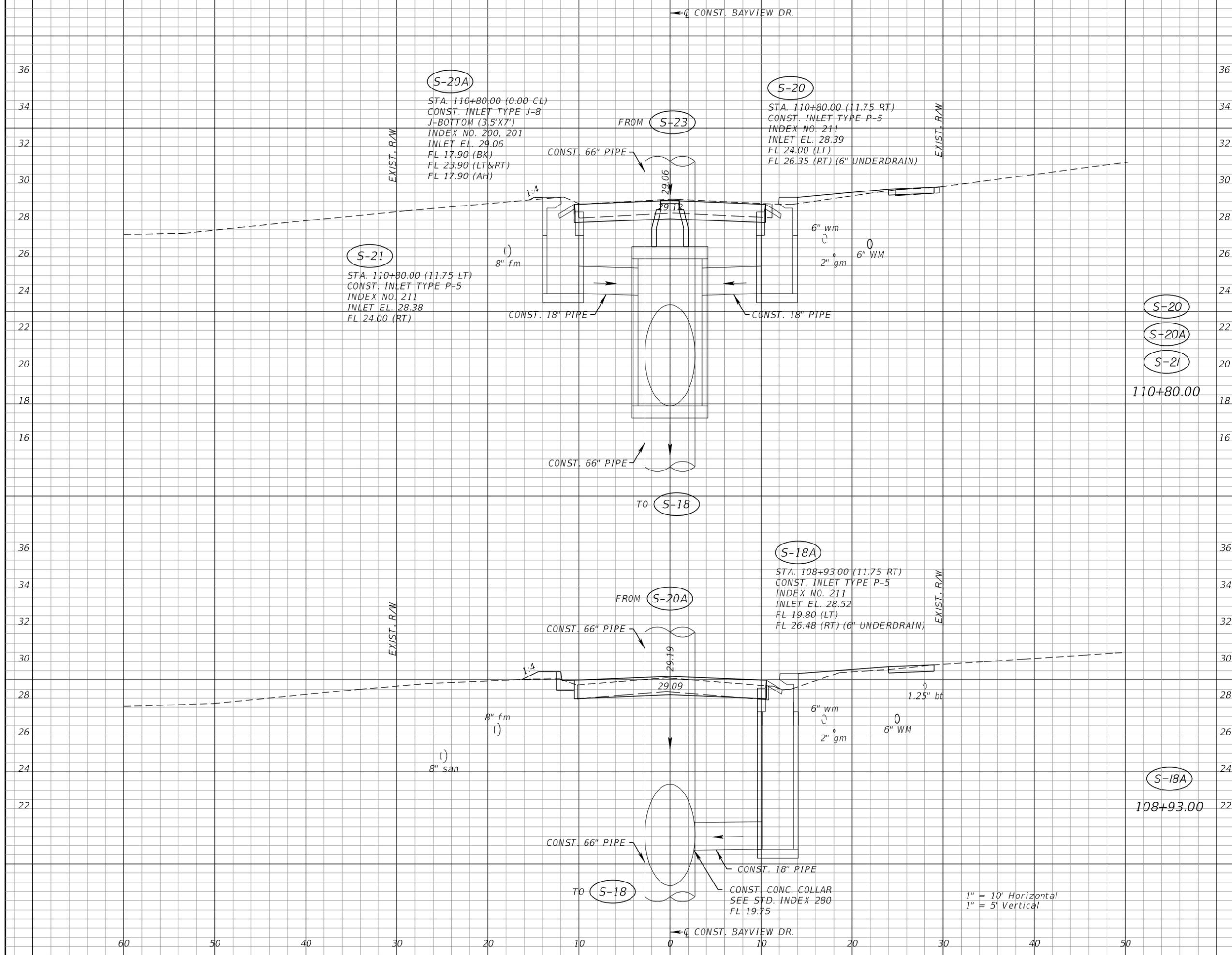
DATE ISSUED: _____
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 DRAWN BY: DJ
 DESIGNED BY: DJ
 HORIZONTAL SCALE: _____
 VERTICAL SCALE: _____
 AEP NO.: 104-2881-001

SHEET TITLE

**DRAINAGE CROSS SECTIONS
 BAYVIEW DRIVE**

SHEET NUMBER

31



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REVISIONS

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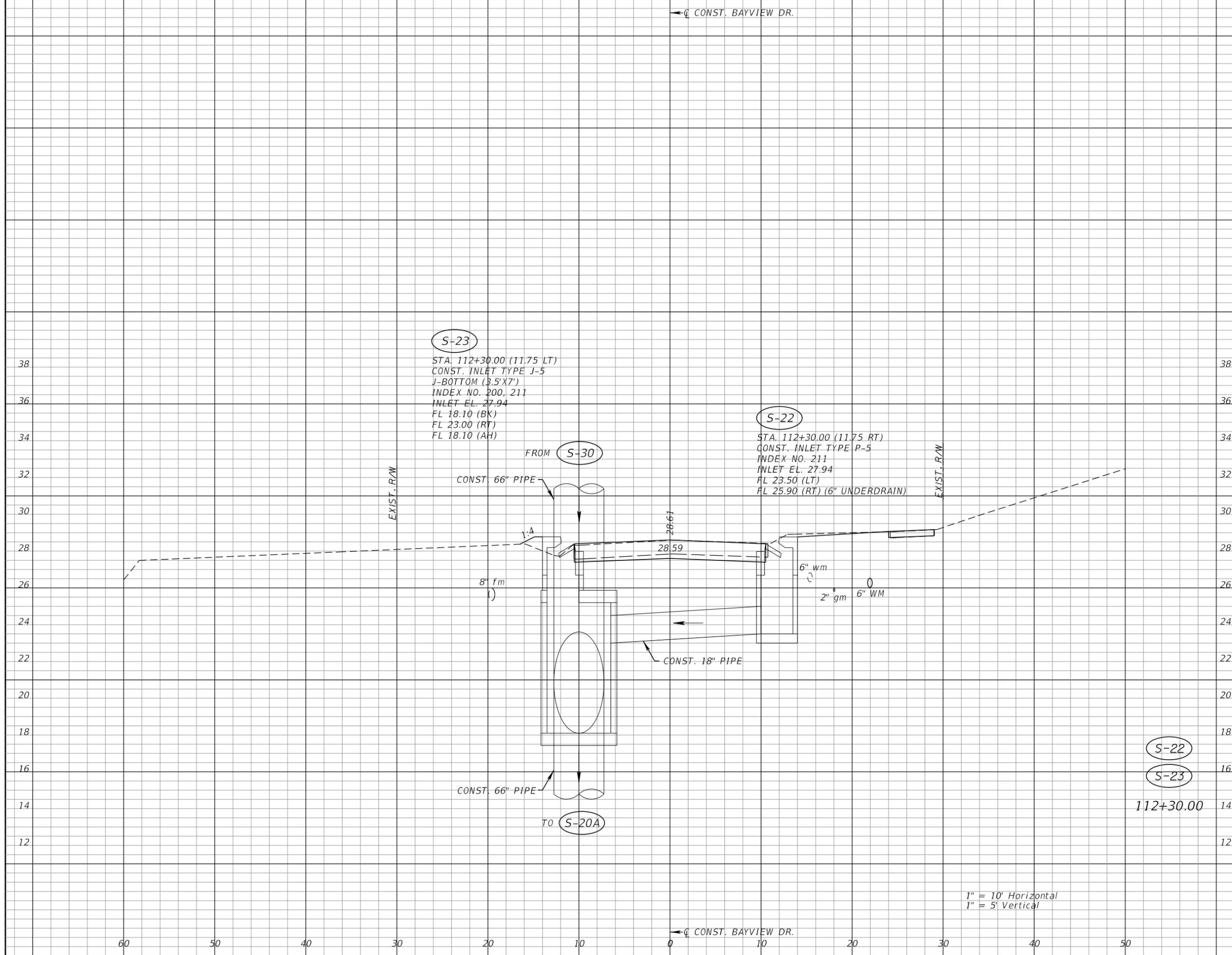
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 REVIEWED BY: RMG
 DRAWN BY: DJ
 DESIGNED BY: DJ
 HORIZONTAL SCALE: _____
 VERTICAL SCALE: _____
 AEP NO.: 104-2881-001

SHEET TITLE

DRAINAGE CROSS SECTIONS BAYVIEW DRIVE

SHEET NUMBER

32





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VERTICAL SCALE:

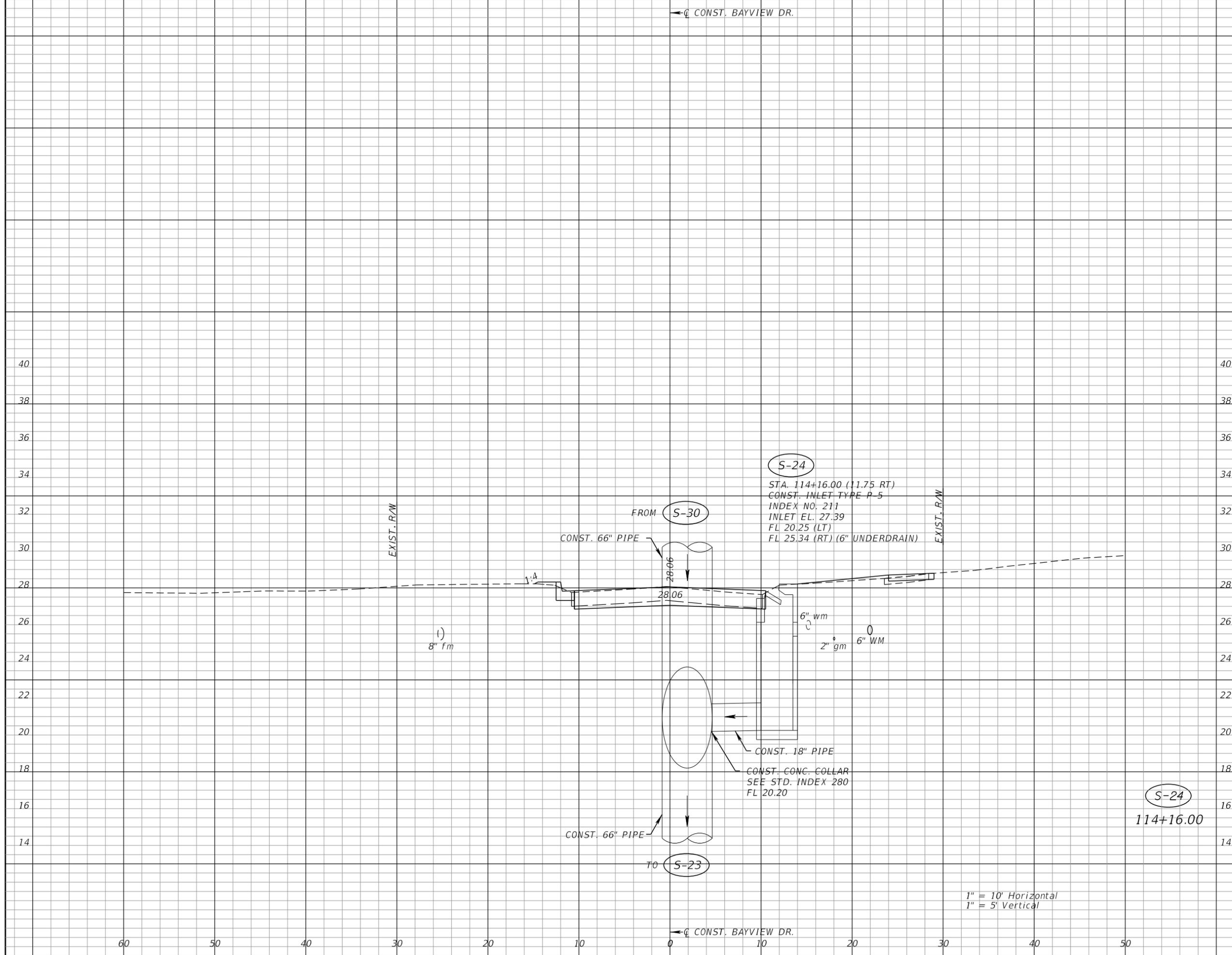
AEP NO.: 104-2881-001

SHEET TITLE

**DRAINAGE CROSS SECTIONS
BAYVIEW DRIVE**

SHEET NUMBER

33



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VERTICAL SCALE:

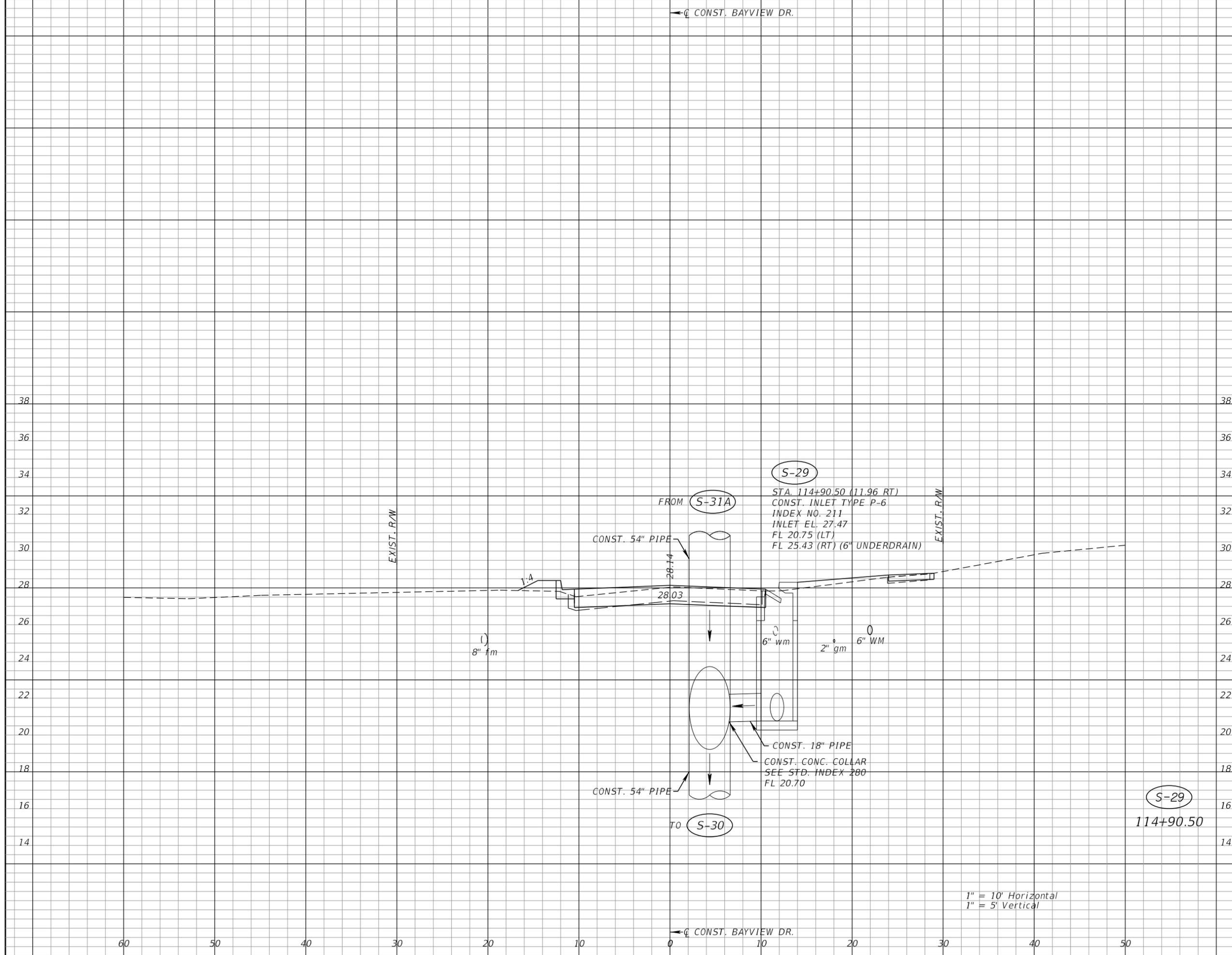
AEP NO.: 104-2881-001

SHEET TITLE

**DRAINAGE CROSS SECTIONS
 BAYVIEW DRIVE**

SHEET NUMBER

35



1" = 10' Horizontal
 1" = 5' Vertical



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VERTICAL SCALE:

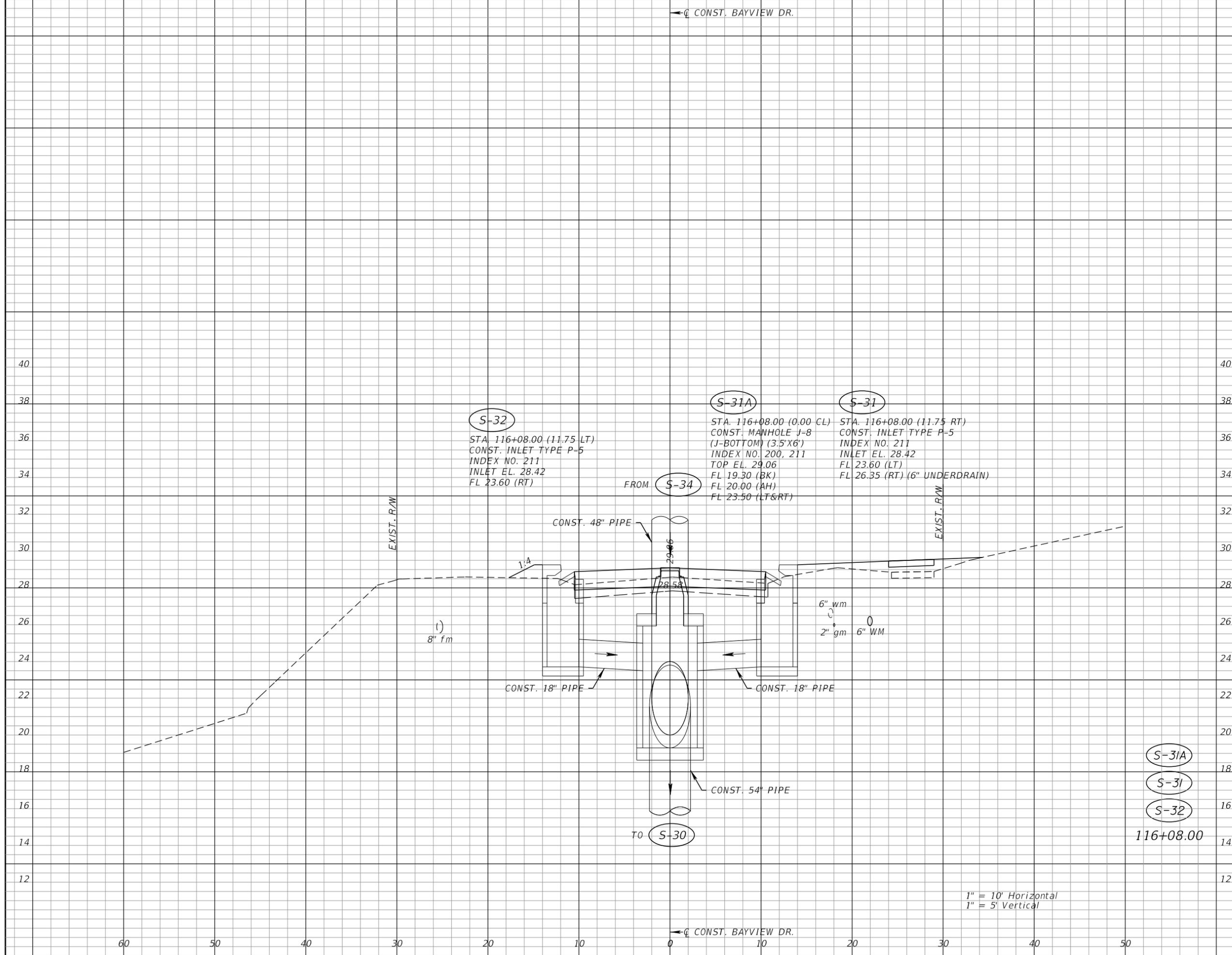
AEP NO.: 104-2881-001

SHEET TITLE

**DRAINAGE CROSS SECTIONS
 BAYVIEW DRIVE**

SHEET NUMBER

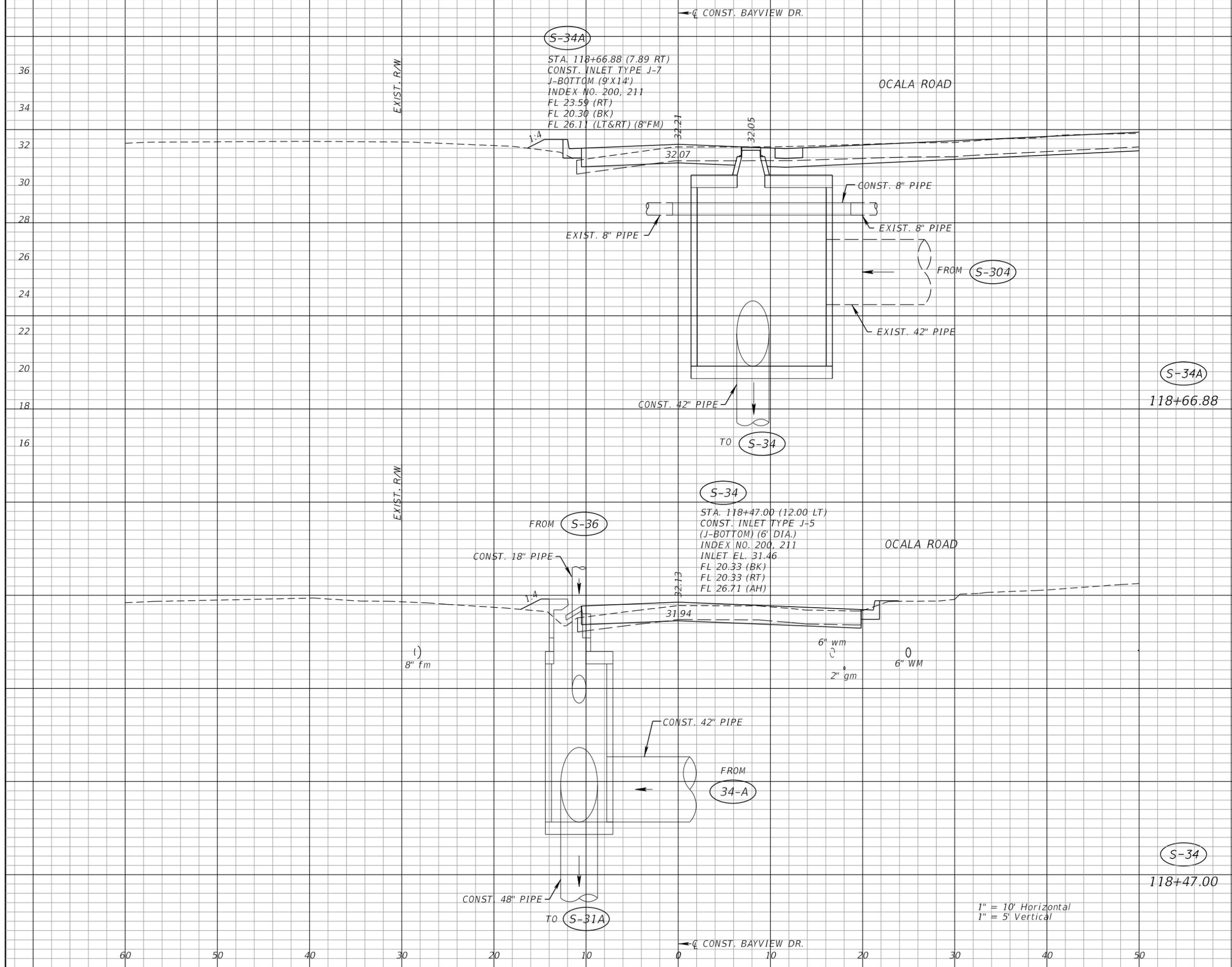
36



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DRAINAGE CROSS SECTIONS BAYVIEW DRIVE

SHEET NUMBER

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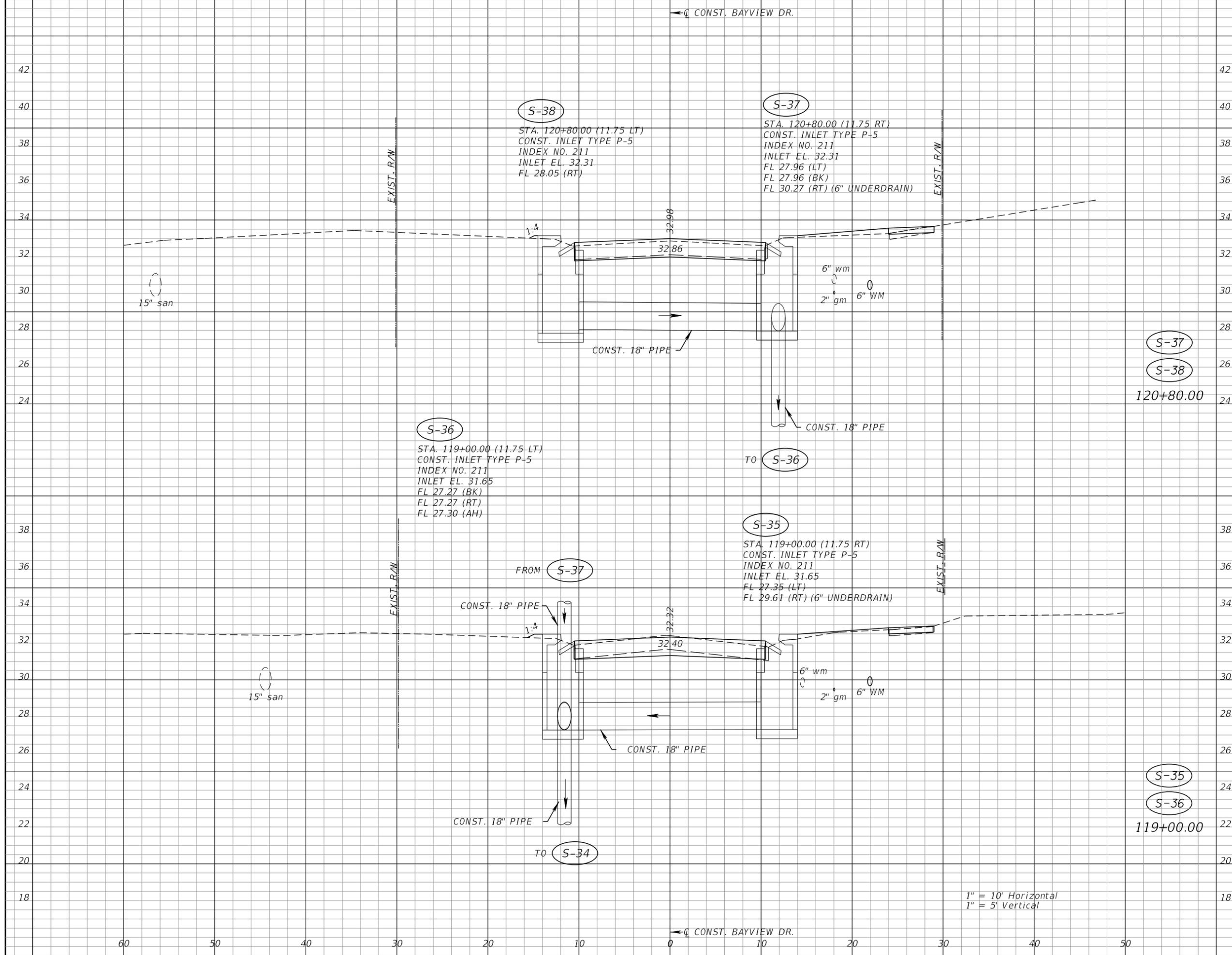
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SHEET TITLE
**DRAINAGE CROSS SECTIONS
 BAYVIEW DRIVE**

SHEET NUMBER
38



1" = 10' Horizontal
 1" = 5' Vertical

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HORIZONTAL SCALE:

VERTICAL SCALE:

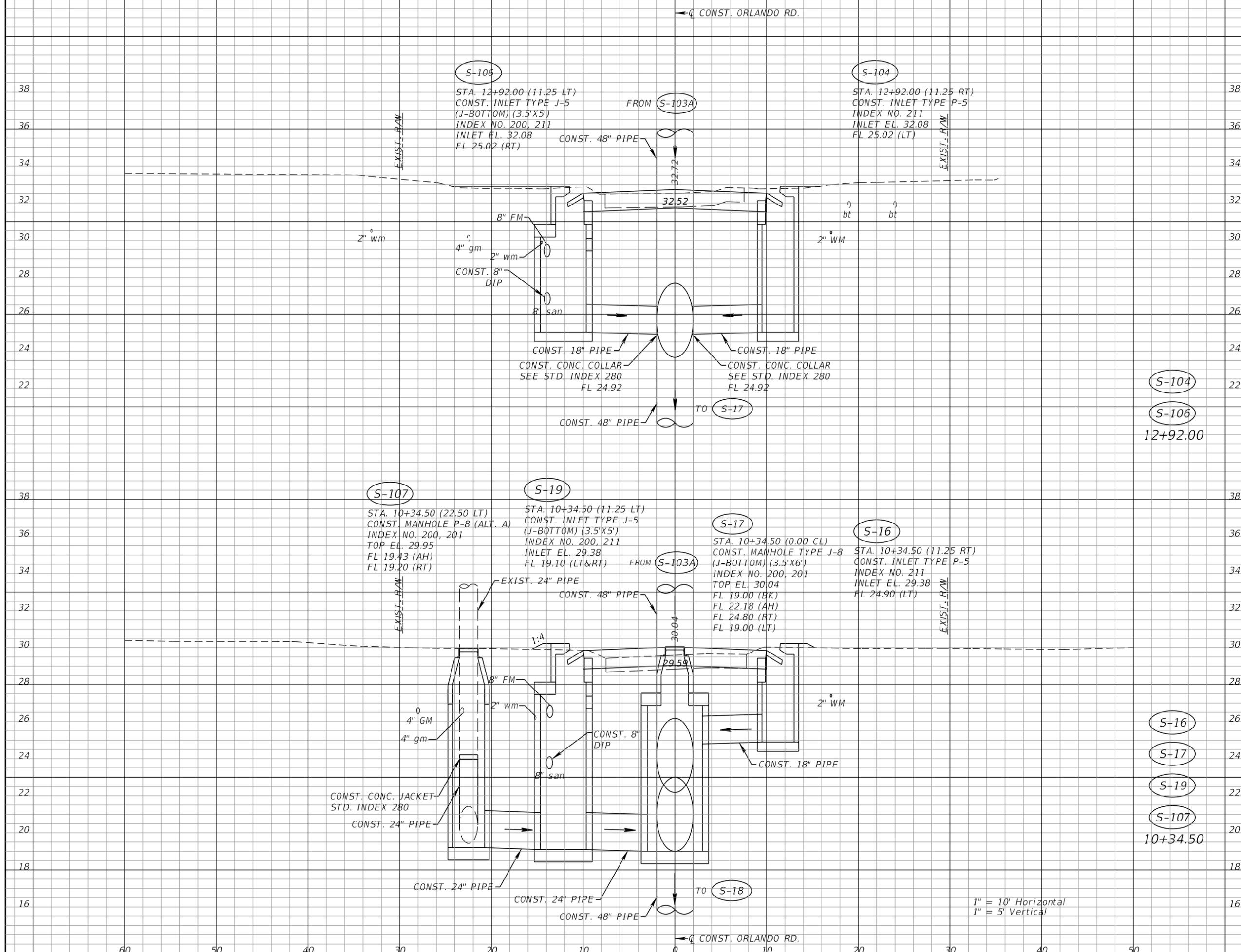
AEP NO.: 104-2881-001

SHEET TITLE

**DRAINAGE CROSS SECTIONS
ORLANDO ROAD**

SHEET NUMBER

39



1" = 10' Horizontal
1" = 5' Vertical

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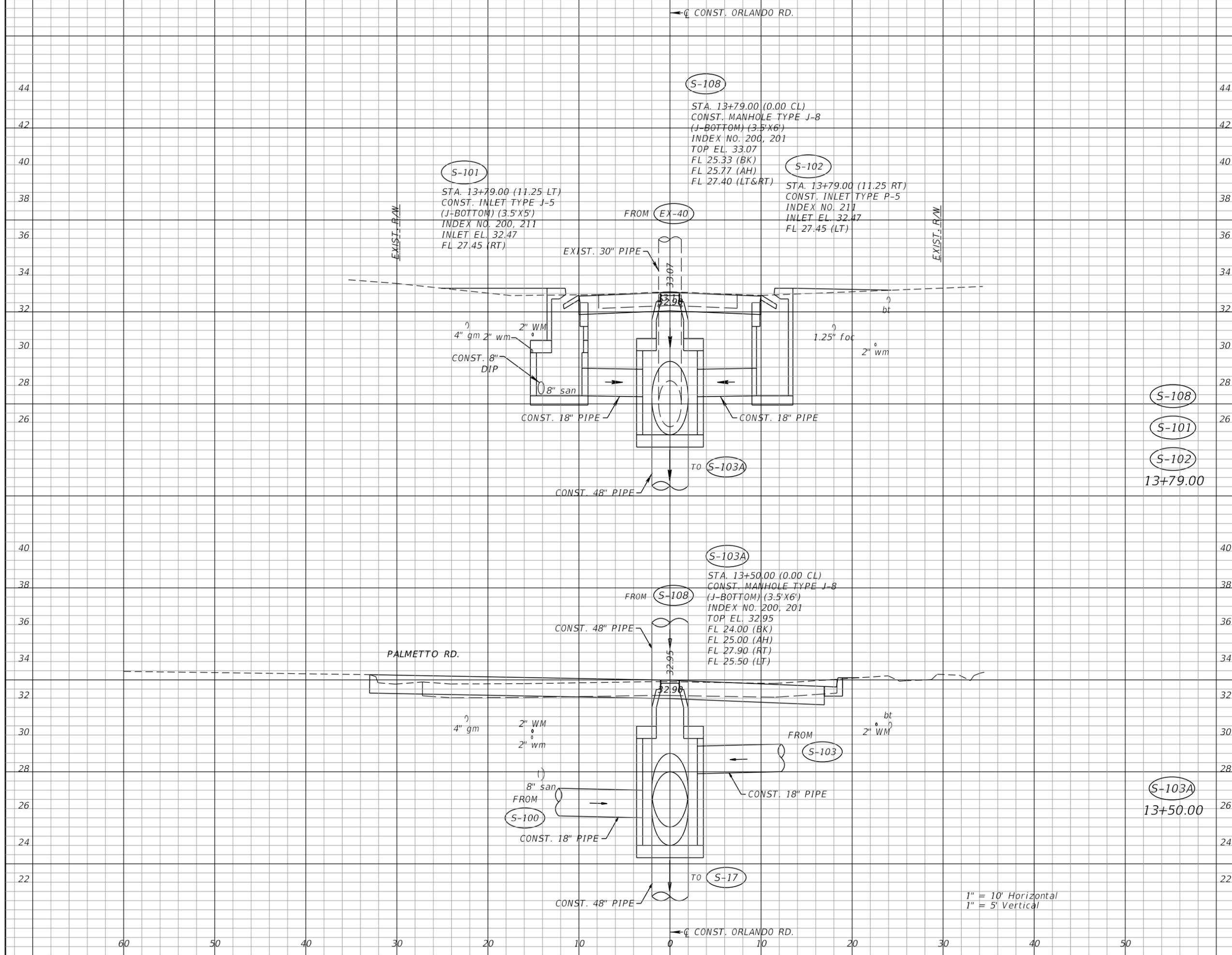
AEP NO.: 104-2881-001

SHEET TITLE

**DRAINAGE CROSS SECTIONS
 ORLANDO ROAD**

SHEET NUMBER

40



S-108
 S-101
 S-102
 13+79.00

S-103A
 13+50.00

60 50 40 30 20 10 0 10 20 30 40 50



TOWN OF BELLEAIR
PUBLIC WORKS DEPARTMENT
901 PONCE DE LEON BLVD.
BELLEAIR, FL 33756

**BAYVIEW DRIVE
STREET AND DRAINAGE
IMPROVEMENTS**

SUB-CONSULTANTS

Mckim & Creed, Inc.
3802 Ehrlich Road, Suite 306
Tampa, Florida 33624
(813)549-3740

APPROVED BY:

ROBERT M. GARRIGUES, P.E.
FLA. REG. NO. 47652
DATE: _____

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:

REVIEWED BY: RMG

DRAWN BY: DJ

DESIGNED BY: DJ

HORIZONTAL SCALE:

VERTICAL SCALE:

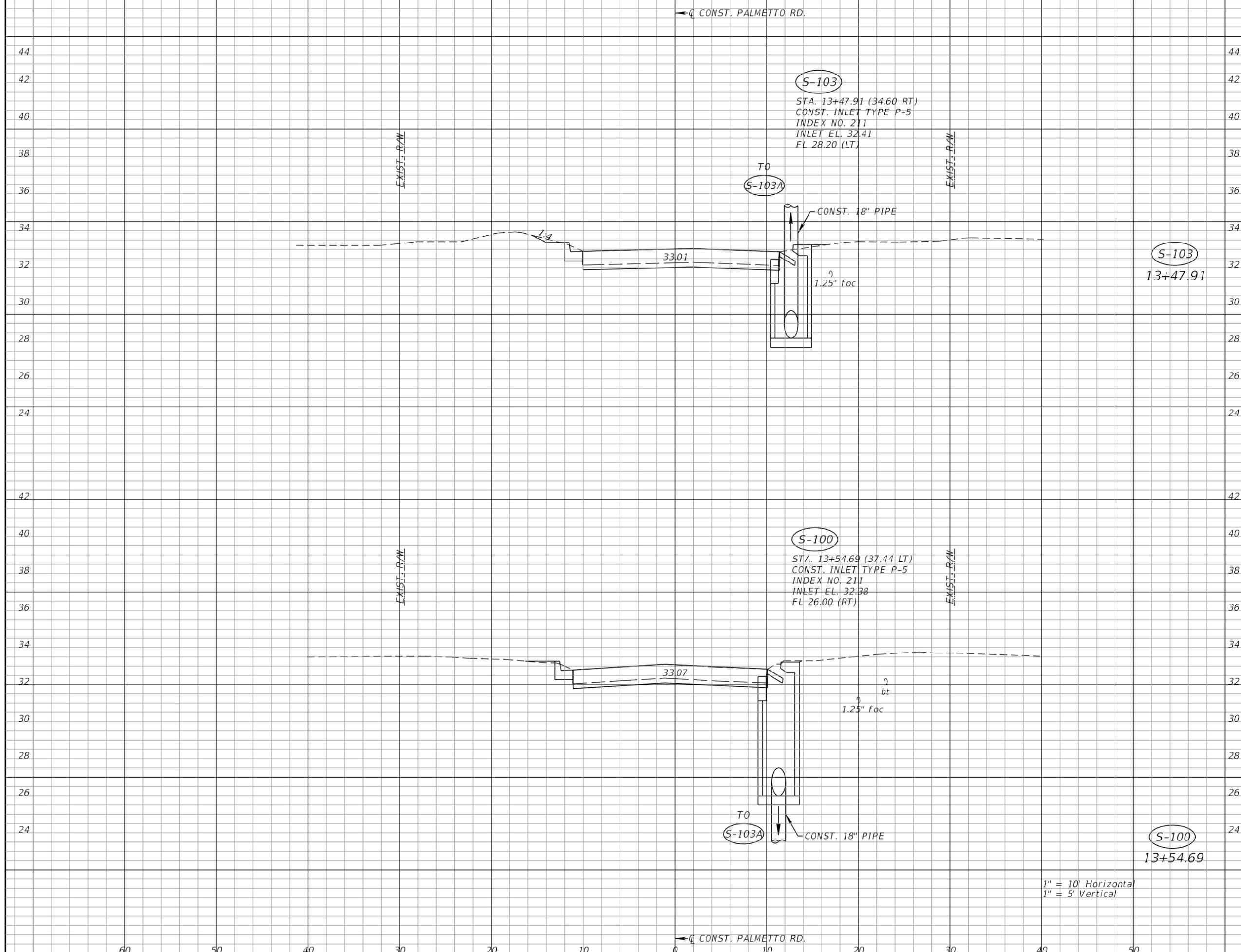
AEP NO.: 104-2881-001

SHEET TITLE

**DRAINAGE CROSS SECTIONS
PALMETTO ROAD**

SHEET NUMBER

41



1" = 10' Horizontal
1" = 5' Vertical

RS&H, Inc.
1715 N. Westshore Blvd., Suite 500
Tampa, Florida 33607
(813)289-5550 FAX: (813)289-0263

www.rsandh.com
FL Cert. Nos: AAC001886
EB0005620 LCC000210



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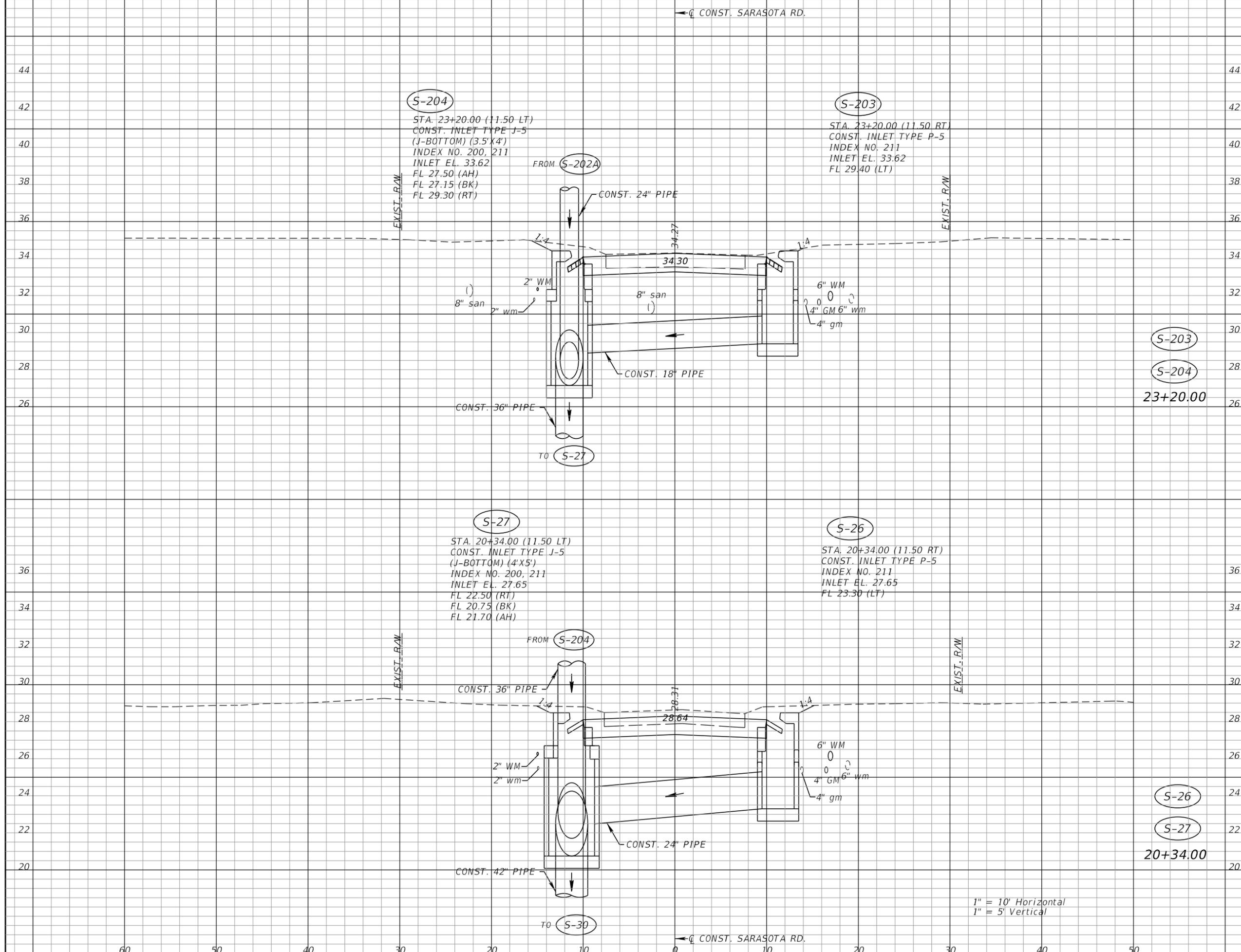
AEP NO.: 104-2881-001

SHEET TITLE

**DRAINAGE CROSS SECTIONS
SARASOTA ROAD**

SHEET NUMBER

42



S-204

STA. 23+20.00 (11.50 LT)
CONST. INLET TYPE J-5
(J-BOTTOM) (3.5' X 4')
INDEX NO. 200, 211
INLET EL. 33.62
FL 27.50 (AH)
FL 27.15 (BK)
FL 29.30 (RT)

S-203

STA. 23+20.00 (11.50 RT)
CONST. INLET TYPE P-5
INDEX NO. 211
INLET EL. 33.62
FL 29.40 (LT)

S-27

STA. 20+34.00 (11.50 LT)
CONST. INLET TYPE J-5
(J-BOTTOM) (4' X 5')
INDEX NO. 200, 211
INLET EL. 27.65
FL 22.50 (RT)
FL 20.75 (BK)
FL 21.70 (AH)

S-26

STA. 20+34.00 (11.50 RT)
CONST. INLET TYPE P-5
INDEX NO. 211
INLET EL. 27.65
FL 23.30 (LT)

1" = 10' Horizontal
1" = 5' Vertical

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 3802 Ehrlich Road, Suite 306
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 (813)549-3740

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 FLA. REG. NO. 47652
 DATE: _____

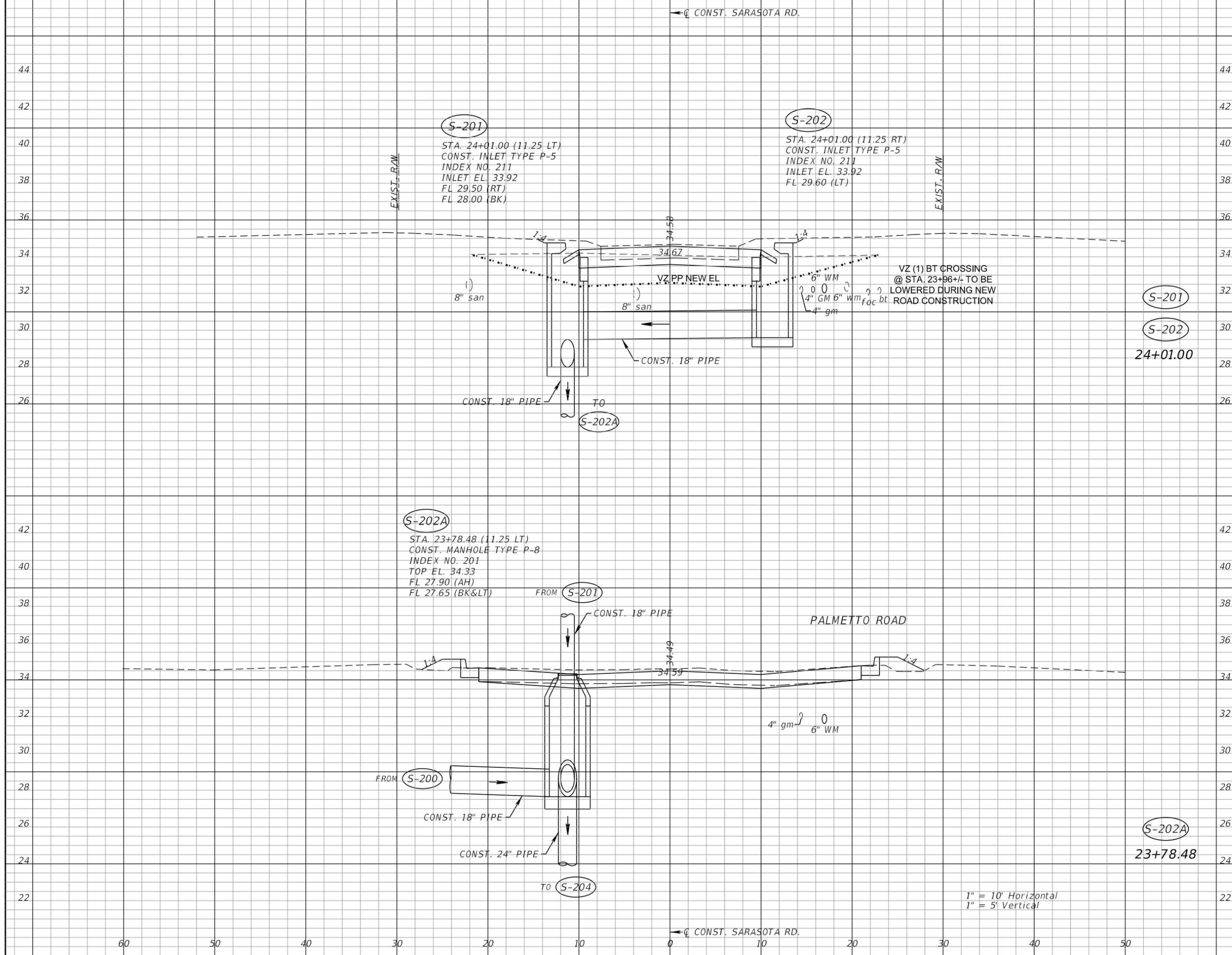
REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED: _____
 REVIEWED BY: RMG
 DRAWN BY: DJ
 DESIGNED BY: DJ
 HORIZONTAL SCALE: _____
 VERTICAL SCALE: _____
 AEP NO.: 104-2881-001

SHEET TITLE
**DRAINAGE CROSS SECTIONS
 SARASOTA ROAD**

SHEET NUMBER



S-201
S-202
 24+01.00

S-202A
 23+78.48



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VERTICAL SCALE:

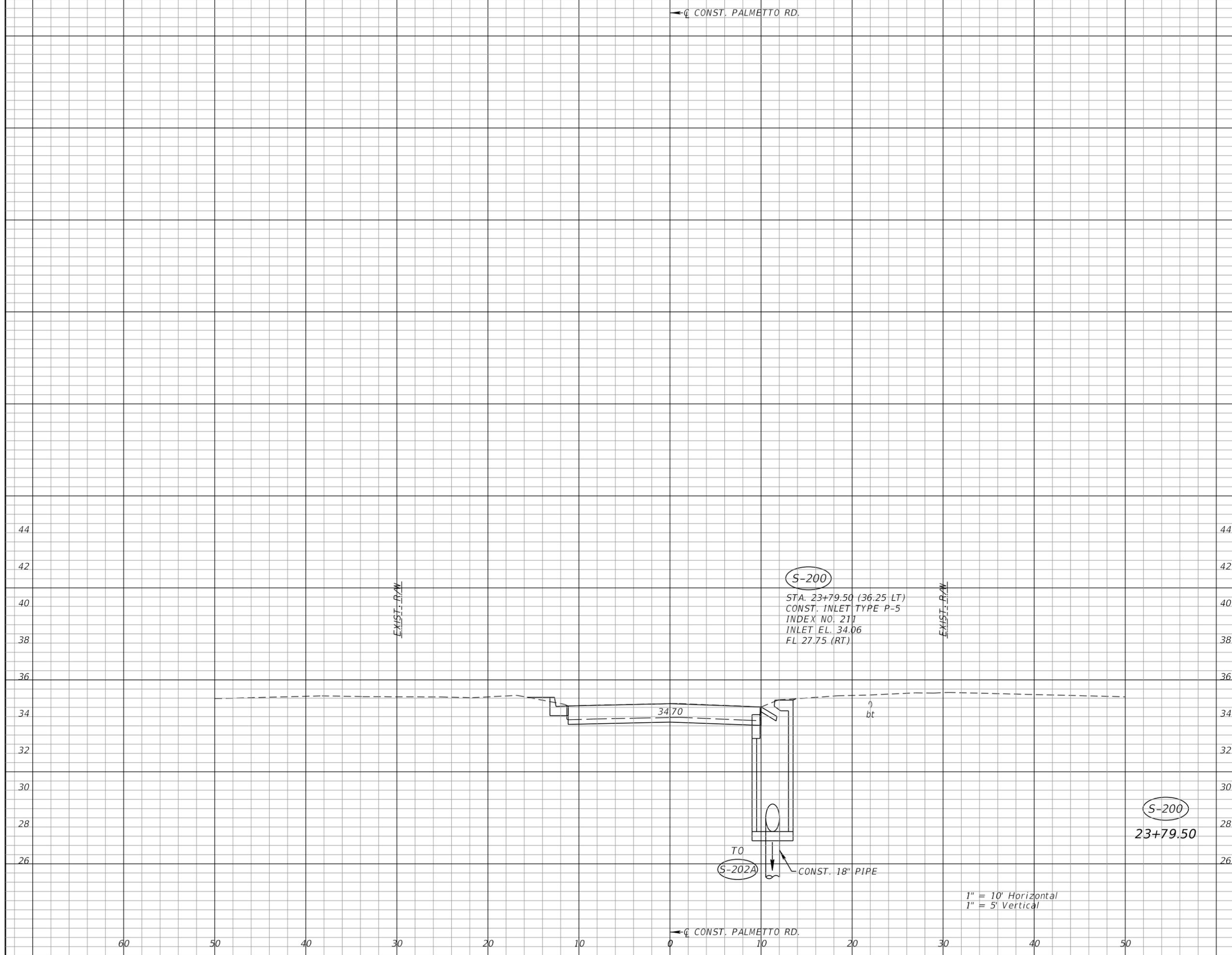
AEP NO.: 104-2881-001

SHEET TITLE

**DRAINAGE CROSS SECTIONS
 PALMETTO ROAD**

SHEET NUMBER

44



1" = 10' Horizontal
 1" = 5' Vertical



**BAYVIEW DRIVE
STREET AND DRAINAGE
IMPROVEMENTS**

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VERTICAL SCALE:

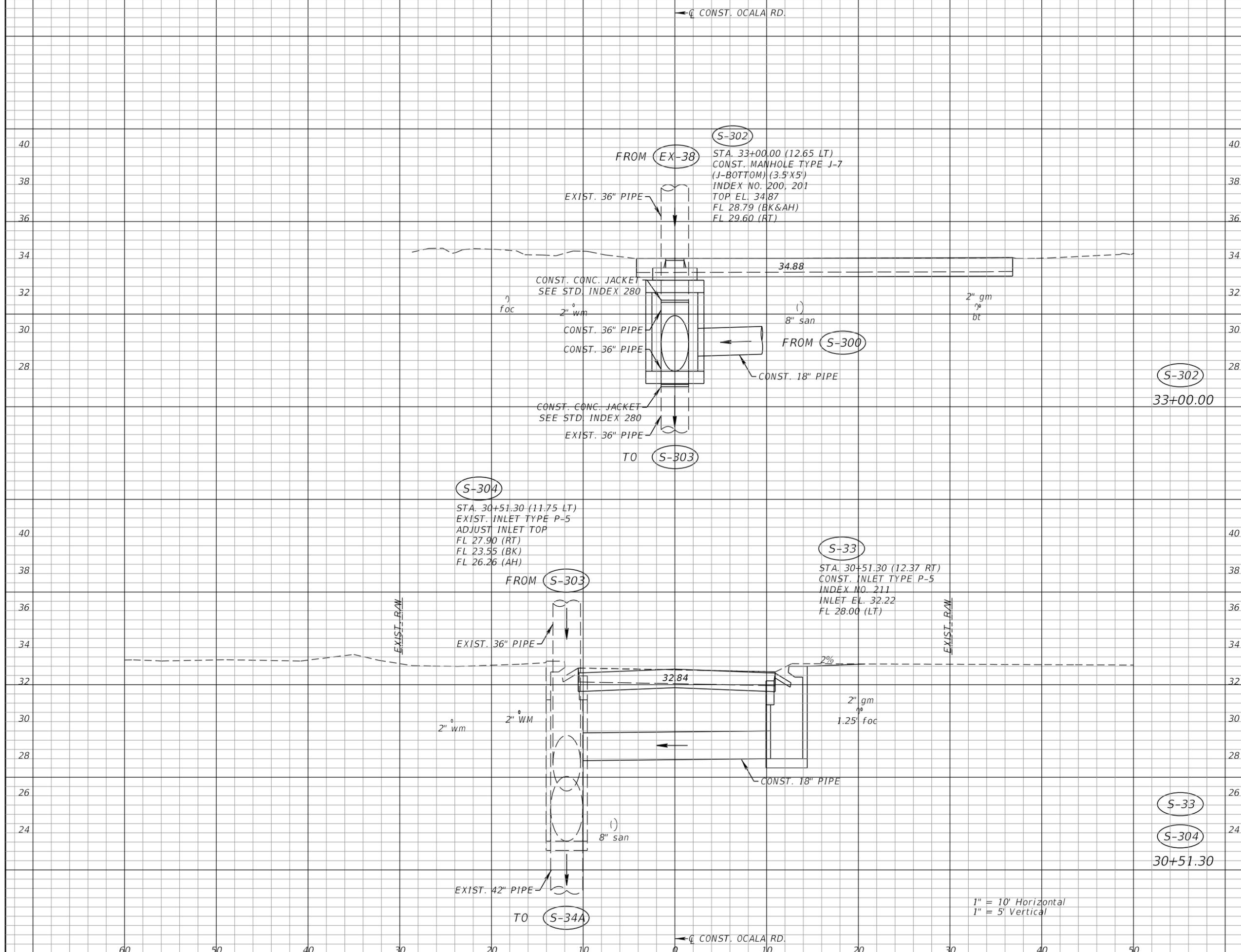
AEP NO.: 104-2881-001

SHEET TITLE

**DRAINAGE CROSS SECTIONS
OCALA ROAD**

SHEET NUMBER

45



← C CONST. OCALA RD.

← C CONST. OCALA RD.

1" = 10' Horizontal
1" = 5' Vertical

60 50 40 30 20 10 0 10 20 30 40 50

40
38
36
34
32
30
28
26
24

40
38
36
34
32
30
28
26
24

S-302
33+00.00

S-33
S-304
30+51.30

S-304

S-33

S-302

EX-38

S-300

S-303

S-303

S-34A

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DATE ISSUED:

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HORIZONTAL SCALE:

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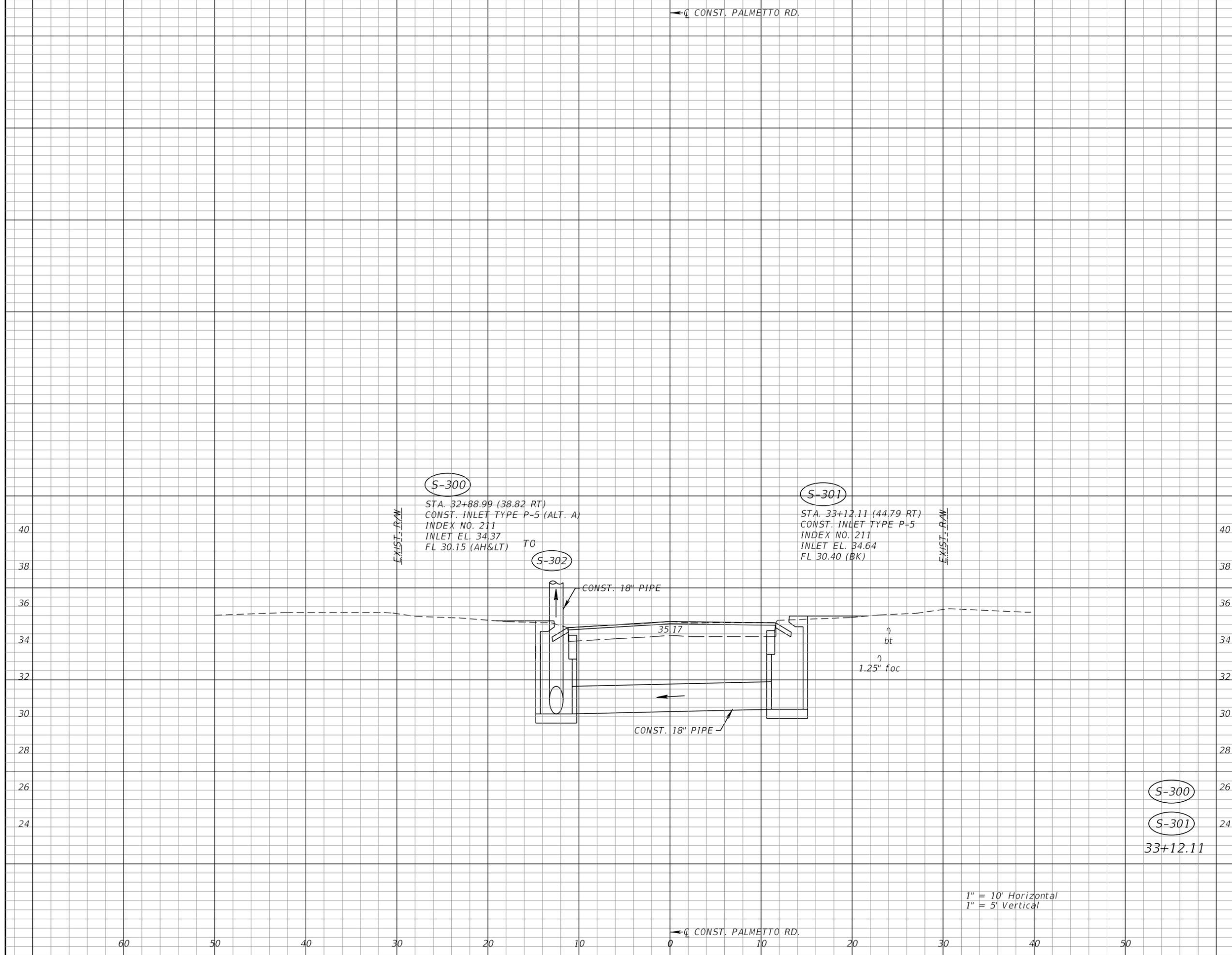
AEP NO.: 104-2881-001

SHEET TITLE

**DRAINAGE CROSS SECTIONS
 PALMETTO ROAD**

SHEET NUMBER

46



S-300

S-301

33+12.11

Reynolds, Smith and Hills, Inc.
 1715 N. Westshore Blvd., Suite 500
 Tampa, Florida 33607
 (813)289-5550 FAX: (813)289-0263
 www.rsandh.com
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 3802 Ehrlich Road, Suite 306
 Tampa, Florida 33624
 (813)549-3740

APPROVED BY:

DATE: _____

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:

REVIEWED BY: BWB

DRAWN BY: VES

DESIGNED BY: VES

HORIZONTAL SCALE:

VERTICAL SCALE:

AEP NO.: 104-2881-001

SHEET TITLE

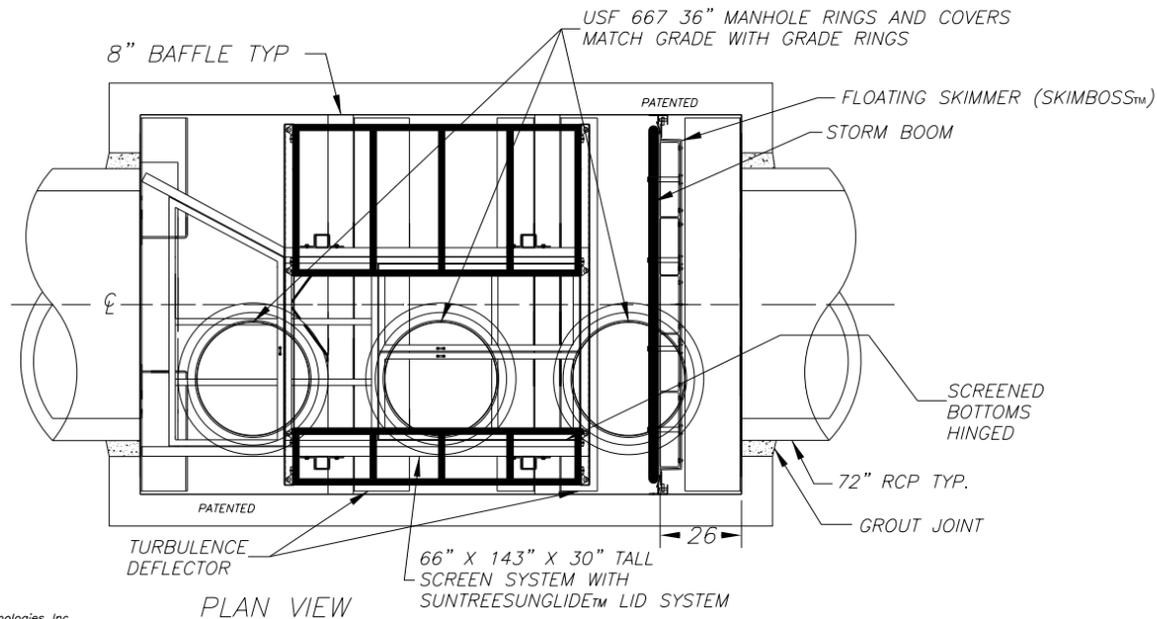
BAFFLE BOX DETAILS (1)

SHEET NUMBER

SUNTREE TECHNOLOGIES INC.d NUTRIENT SEPARATING BAFFLE BOX MODEL NO: NSBB-10-16-145-BAYVIEW DRIVE-1

FLOW & BY-PASS SPECIFICATIONS FOR BIOMASS SEPARATING SCREEN SYSTEM, SEDIMENT COLLECTION CHAMBERS, AND SKIMMER SPECIFICATIONS

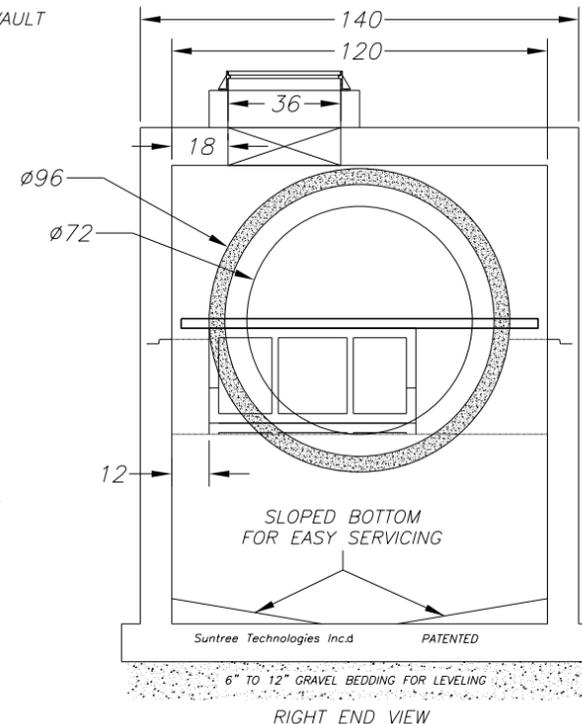
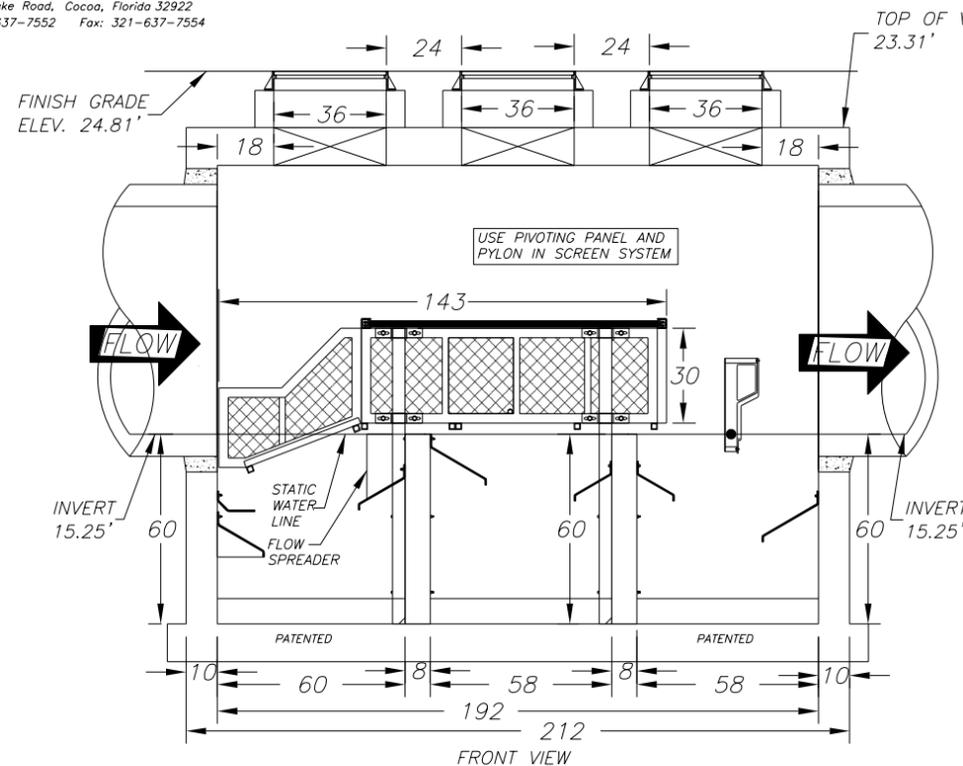
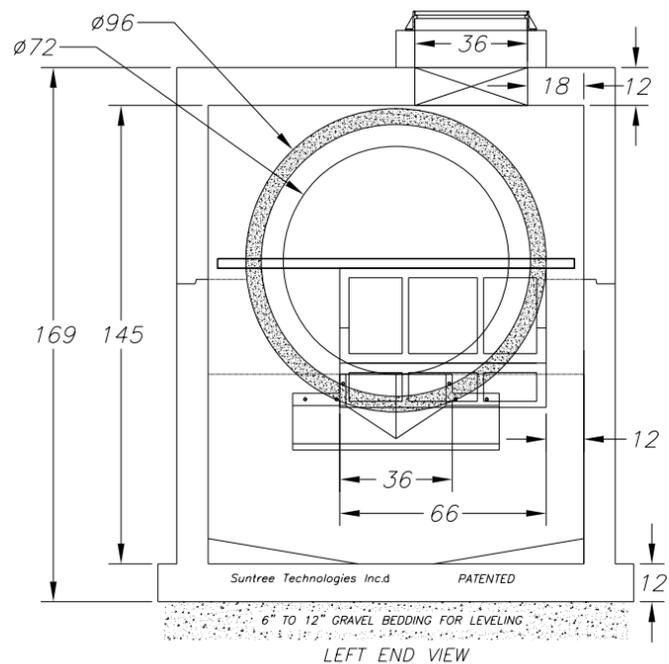
- Pipe inflow area (Drawn as 72" RCP) — 28.26 sq.ft.
- SCREEN SPECIFICATIONS:
- Open orifice area in screen system — 84.78 sq.ft.
 - Open orifice area in screen system with 50% blockage — 42.39 sq.ft.
 - Open orifice area in screen system with 75% blockage — 21.20 sq.ft.
 - Minimum by-pass through screen system below the top surface of the pipe — 54.76 sq.ft.
 - Minimum by-pass around screen system below the top surface of the pipe — 21.65 sq.ft.
 - Screen system storage volume — 128.50 cu.ft.
- SEDIMENT STORAGE:
- Volume of first sediment chamber — 250.00 cu.ft.
 - Volume of second sediment chamber — 241.66 cu.ft.
 - Volume of third sediment chamber — 241.66 cu.ft.
 - Total sediment volume — 733.33 cu.ft.
- SKIMMER SPECIFICATIONS:
- Flow area under skimmer — 19.58 sq.ft.
 - Area of pipe in line with skimmer — 11.95 sq.ft.
 - Area between the skimmer and the outflow pipe parallel with the surface of the pipe — 34.01 sq.ft.



**PATENTED
 AND PATENTS PEND.**

- INSTALLATION NOTES:
- INFLOW AND OUTFLOW PIPES ARE TO BE FLUSH WITH THE INSIDE SURFACE OF THE CONCRETE STRUCTURE. (CAN NOT INTRUDE BEYOND FLUSH)
 - INVERT OF OUTFLOW PIPE SHOULD BE EVEN WITH THE TOP OF THE BAFFLES.
 - BAFFLES SHOULD BE SEALED WITH GROUT.
 - THE BOTTOM OF THE SKIMMER SHOULD BE 6" BELOW THE INVERT OF THE OUTFLOW PIPE.
 - INVERT OF THE INFLOW PIPE SHOULD NOT BE BELOW THE INVERT OF THE OUTFLOW PIPE.

Suntree Technologies Inc.
 798 Clearlake Road, Cocoa, Florida 32922
 PH: 321-637-7552 Fax: 321-637-7554



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Tampa, Florida 33607
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TOWN OF BELLEAIR
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**BAYVIEW DRIVE
STREET AND DRAINAGE
IMPROVEMENTS**

SUB-CONSULTANTS

Mckim & Creed, Inc.
3802 Ehrlich Road, Suite 306
Tampa, Florida 33624
(813)549-3740

APPROVED BY:

DATE: _____

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:

REVIEWED BY: BWB

DRAWN BY: VES

DESIGNED BY: VES

HORIZONTAL SCALE:

VERTICAL SCALE:

AEP NO.: 104-2881-001

SHEET TITLE

BAFFLE BOX DETAILS (2)

SHEET NUMBER

Hydrodynamic, Volume, & Physical Specifications Of The Suntree Nutrient Separating Baffle Box
Model Number: NSBB-10-16-137-BAYVIEW DRIVE-1

1. The stormwater treatment structure is commonly placed on-line or off-line. It will be sized so that the entire flow of a INFLOW pipe will always receive treatment by passing it through the inside of the stormwater treatment structure.

2. For flows of 45 cfs a removal efficiency of at least 80% for TSS will be achieved. Peak flows will be based on site specific criteria and be able to pass through the stormwater treatment structure for treatment.

3. The stormwater treatment structure will be able to store captured solid debris such as leaves and litter in a dry state between rain events. The volume of dry storage will be approximately 140.80 cubic feet.

4. The stormwater treatment structure will have the capacity to store approximately 733.33 cubic feet of captured sediment.

5. The skimmer will be the Suntree SkimBoss™ System. As the water level in the vault changes, the Suntree floating skimmer will automatically move vertically, floating on the changing water level as needed to prevent water flow from topping the skimmer. On each end of the skimmer a track system is attached to the wall to hold the skimmer in place and provide for vertical movement. Wheels are attached to the ends of the skimmer and fit into the tracks and act to reduce the frictional forces between the skimmer and the tracks so that the skimmer can easily move vertically with the changing water elevations. There are 2 types of wheels that turn perpendicular to each other which are used to deal with the frictional forces. The centering wheels roll against the sides of the vault walls and work to reduce the frictional force of the vault walls. The load wheels reduce the friction produced from the water flow pushing the skimmer against the track in the direction of water flow. The body of the skimmer will be rigid and made of laminated fiberglass. The buoyancy of the skimmer comes from 2 components. The primary buoyancy component are the floats on the upstream side of the skimmer. These floats are located along the top of the skimmer and account for majority of the buoyancy. Another buoyancy component will be PVC structural foam laminated within the fiberglass layers of the body of the skimmer. The body of the skimmer is shaped so that the floats fit within the shape of the skimmer which combine to form a relatively flat surface on the upstream side. The floats are attached to the body of the skimmer within a cavity along the top of the skimmer. The floats are spaced off from the surface of the skimmer body so water can flow completely around on all sides of the float. The space between the float and the body of the skimmer is what allows the skimmer to buoyant relative to the water level on the upstream side of the skimmer. On the face of each end of the skimmer a rubber seal prevents the passage of oils or other floating chemicals. A hydrocarbon absorption boom is positioned along the face of the skimmer to absorb hydrocarbons. The hydrocarbon absorption boom is held in position by brackets that allow for the vertical movement of the boom along the face of the skimmer. The boom will float on the water surface and rise up and down with the changing water levels.

6. The nutrient separating screen system shall be positioned approximately 3.5" above the static water level within the baffle box. Adjacent to the inflow, the screen system will have openings on both sides that have a combined cross sectional area that exceeds the cross sectional area of the pipe. These openings will act as an internal bypass for water flow in the event that the screen system becomes full of debris.

7. The nutrient separating screen system shall have a minimum of 6" of vertical adjustment. The adjustment method shall be a system with brackets that are attached to the sides of the screen system that will slide vertically along 4" x 4" aluminum square poles. Two stainless steel bolts on each bracket can be tightened to lock the screen system in place, or loosened to allow for vertical adjustment of the screen system. The square poles are anchored to the baffle wall by stainless steel bolts.

8. The nutrient separating screen system shall have a minimum of 3" of horizontal adjustment in the direction of the length of the concrete structure. The brackets that clamp the vertical adjustment poles to the side of the screen system can be repositioned to allow of horizontal adjustment.

9. The nutrient separating screen system shall have a bottom section adjacent to the inflow which is hinged and can be opened for cleaning. This bottom section will function as a screened ramp to direct debris into the main body of the screened system. The sides of the screen system adjacent to the inflow will be made with stainless steel screen and transition in vertical height from a minimum of 8" above the inflow invert to the height of the main body of the screen system. The lower sides of the screen system adjacent to the inflow will provide bypass for water flow around the main body of the screen system if necessary. The cross sectional area of the bypass around the screen system will be equal to or exceed the cross sectional area of the inflow pipe.

10. The nutrient separating screen system shall give access from above grade to the lower sediment collection chambers by the following method. The bottom of the screen system will contain hinged screened doors that can be opened in such a way as to allow adequate access for a vacuum truck to remove everything in all the lower collection chambers.

11. The screen system structure will be a welded aluminum framework spanned by stainless steel screen, be generally rectangular in shape, and be formed to make a bottom, 2 long sides, 1 end, and a top; The inflow end will remain open so as to allow water to enter the screen system. The screen system will consist of panel sections that are held together with stainless steel bolts. When the panel sections are unbolted and separated from each other they will be able to pass through an access hatch or round manhole in the top of the baffle box for removal purposes. The aluminum frame work will be made of mostly 3" x 3" x 1/4" aluminum angle beam. The screen used to span the aluminum frame is described as follows: For the body of the screen system, flattened expanded stainless steel sheet 3/4" # 13 F; Open area = 75%; Grade = 304 Stainless Steel. The screen will be attached to the screen system frame by sandwiching the screen to the aluminum frame between a series of 1 1/4" x 3/16" aluminum bars and welded in place. Aluminum screen material is not allowed.

12. In the first chamber a series of deflectors will be installed to reduce turbulence in the chamber. The configuration of the deflectors is as follows: Directly under the inflow pipe and inflow of the screen system, a deflector will be attached to the inflow wall. This deflector will measure approximately 90" long x 12" wide and be attached with stainless steel wedge bolts onto the wall. On the inflow side of the first baffle will be a V shaped deflector so that it will spread wide water flow that impacts the inflow side of the first baffle. Under the V shaped flow spreader will be a deflector shape that prevents water that impacts the first baffle from flowing down into toward the bottom of the first chamber. This deflector can be angled or horizontal as needed. Adjacent to the left and right of the inflow pipe will be a corner deflector attached to the inflow wall approximately midway down between the inflow invert and the bottom of the settling chamber. All these deflectors will be made of fiberglass of approximately 3/8" thickness and be attached by stainless steel wedge bolts.

13. In the second chamber a series of deflectors will be installed to reduce turbulence in the chamber. The configuration of the deflectors is as follows: On the down stream side of the first baffle will be a deflector attached near the top of the baffle. This deflector will be angled and measure approximately 118" long x 18" wide. On the inflow side of the second baffle will be a deflector that is angled and measure approximately 118" long x 12" wide. This deflector will be attached at an elevation approximately 6" down from the top of the baffle. All these deflectors will be made of fiberglass of approximately 3/8" thickness and be attached by stainless steel wedge bolts.

14. In the Third chamber a series of deflectors will be installed to reduce turbulence in the chamber. The configuration of the deflectors is as follows: A deflector will be attached on the down stream side of the second baffle and it will be angled and measure approximately 118" long x 12" wide. A deflector will be attached on the outflow wall of the vault and it will be angled and measure approximately 118" long x 18" wide. These deflectors will be attached at an elevation approximately 8.5" down from the top of the baffle. All these deflectors will be made of fiberglass of approximately 3/8" thickness and be attached by stainless steel wedge bolts.

15. The structure of the box will be precast concrete. The concrete will be 28 day compressive strength $f_c = 5,000$ psi. Steel reinforcing will be ASTM A - 615 Grade 60. Structure will support an H20 loading as indicated by AASHTO. The joint between the concrete sections will ship lap and the joint sealed with Ram-Nek or equal butyl rubber joint sealant. Two baffles will separate the bottom of the structure into 3 chambers for the settling and collection of sediment. The baffles will be sealed with non-shrink grout to form 3 water tight chambers.

16. For access into the Nutrient Separating Baffle Box, 36" ROUND OPENINGS will be cast into the top of the vault.

17. The inflow and outflow pipes will not intrude beyond flush with the inside surface of the Nutrient Separating Baffle Box. The space between the pipe holes in the ends of the Nutrient Separating Baffle Box and the outside surface of the pipe will be filled with non-shrink grout to form a water proof seal. The invert of the outflow pipe will be even with the tops of the baffles.

GENERAL NOTES:

1.THE CONTRACTOR SHALL SUPPLY AND INSTALL THE BAFFLE BOX VAULT STRUCTURE BASED ON THE DESIGN CRITERIA AS DETAILED IN THE PLANS AND ACCORDING TO THE TECHNICAL SPECIFICATION AND STANDARD SPECIFICATIONS.

2.THE CONTRACTOR SHALL SECURE THE SERVICES OF A CONTRACTOR'S ENGINEER OF RECORD (CEOR) TO DESIGN AND DETAIL THE BAFFLE BOX VAULT STRUCTURE AND TEMPORARY CRITICAL SHEETPILES. THE CEOR SHALL BE A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.

3.THE CONTRACTOR SHALL KEEP ALL EQUIPMENT NECESSARY TO INSTALL THE BAFFLE BOX, ALL APPURTENANCES AND PIPES ON EITHER SIDE OF THE BAFFLE BOX WITHIN THE AREA OF PROPOSED ASPHALT AND CURB.

4.THE CONTRACTOR SHALL PROVIDE TEMPORARY CRITICAL SHEETPILE WALLS FOR ANY EXCAVATION THAT AFFECTS ANY EXISTING STRUCTURES (STRUCTURES, SIDEWALKS, UTILITIES, APPURTENANCES, ETC.) OR THE PUBLIC INSIDE OR OUTSIDE OF THE RIGHT OF WAY. ALL TEMPORARY CRITICAL SHEETPILE WALLS NECESSARY TO INSTALL THE BAFFLE BOX VAULT STRUCTURE AND SUPPORT EXISTING STRUCTURES OR THE PUBLIC SHALL BE DESIGNED AND DETAILED BY A CONTRACTOR'S ENGINEER OF RECORD (CEOR).

5.ALL CALCULATIONS AND DETAILS SHALL BE SIGNED AND SEALED BY THE CEOR. CALCULATIONS SHALL BE DEVELOPED ON 8 1/2 X 11 PAPER. ALL DESIGNS, CALCULATIONS, AND DETAILS SHALL BE SIGNED AND SEALED BY THE CEOR. DETAILS SHALL BE DEVELOPED ON 11 X 17 PAPER. DESIGNS AND DETAILS SHALL BE COMPATIBLE WITH THE FDOT STANDARD INDEXES WITH THE LATEST INTERIMS.

6.DESIGN SPECIFICATIONS:

a. 2010 AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 5th EDITION WITH CURRENT REVISIONS

b. FDOT PLANS PREPARATION MANUAL LATEST EDITION

c. FDOT STRUCTURES MANUAL, EFFECTIVE DATE JANUARY 2013

d. "INSITU SOIL IMPROVEMENT TECHNIQUES" AASHTO-AGC-ARTBA

e. Guide Design Specifications for Bridge Temporary Works, 1st Edition (1995) with 2008 interims

f. Construction Handbook for Bridge Temporary Works, 1st Edition (1995) with 2008 interims

7.DESIGN METHOD SHALL BE PER LOAD AND RESISTANCE FACTOR DESIGN METHOD.

8.DESIGN LOADING:

a. HL-93 LOADING.

b. DEAD LOADS.

c. HYDRAULIC EFFECTS INCLUDING BUOYANCY WITH GROUND WATER 1 FOOT BELOW THE GROUND SURFACE AND THE BAFFLE BOX VAULT STRUCTURE EMPTY OF WATER.

9.CONCRETE:

a. PROVIDE A 3/4" CHAMFER ON ALL EXPOSED EDGES, UNLESS OTHERWISE NOTED.

b. CONCRETE: CLASS IV, MINIMUM 28-DAY STRENGTH = 5500 PSI

10.REINFORCING STEEL:

a. REINFORCING STEEL SHALL BE ASTM A615, GRADE 60

b. CONCRETE COVER FOR REINFORCING STEEL SHALL BE 3" MINIMUM.

11.ENVIRONMENTAL CLASS: EXTREMELY AGGRESSIVE

12.UTILITIES:

a. THE UTILITIES SHOWN IN THE PLANS ARE AT APPROXIMATE LOCATIONS.

b. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR COMMENCING CONSTRUCTION.

13.SHOP DRAWINGS:

a. ALL DESIGNS, DETAILS AND SHOPDRAWINGS SHALL BE SUBMITTED TO THE CITY FOR DISTRIBUTION TO BE REVIEWED.

b. THE CONTRACTOR SHALL NOT ORDER ANY MATERIAL OR BEGIN CONSTRUCTION UNTIL ALL DESIGNS, DETAILS AND SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.

c. MULTIPLE SUBMITTALS DUE TO REJECTED DESIGNS, DETAILS OR SHOP DRAWINGS SHALL NOT BE GROUNDS FOR A CLAIM.

d. ADDITIONAL MATERIALS NECESSARY TO MEET THE DESIGN REQUIREMENTS THAT WERE NOT ACCOUNTED FOR IN THE CONTRACTOR'S BID SHALL NOT BE GROUNDS FOR A CLAIM.

14.THE BAFFLE BOX VAULT STRUCTURE SHALL BE A PRECAST CONCRETE STRUCTURE.

15.ANY AND ALL DAMAGE TO EXISTING STRUCTURES (STRUCTURES, SIDEWALKS, UTILITIES, APPURTENANCES, ETC.) INSIDE OR OUTSIDE OF THE RIGHT OF WAY SHALL BE REPAIRED TO ITS PRECONSTRUCTION CONDITION TO THE SATISFACTION OF THE ENGINEER. ALL COSTS FOR LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED FOR REPAIRING EXISTING STRUCTURES (STRUCTURES, SIDEWALKS, UTILITIES, APPURTENANCES, ETC.) SHALL BE BORNE BY THE CONTRACTOR.

16. THE CONTRACTOR SHALL ANTICIPATE DIFFICULT INSTALLATION FOR THE BAFFLE BOX VAULT STRUCTURE, THE TEMPORARY CRITICAL SHEETPILE WALLS, DEWATERING SYSTEMS, ETC. DUE TO HARD SOILS, INCLUDING DENSE CLAYS OR LIMESTONE, SANDS, LOOSE SOILS, DIFFICULT ACCESS, ETC.

17. THE CONTRACTOR SHALL ANTICIPATE DIFFICULT REMOVAL OF THE TEMPORARY CRITICAL SHEETPILE WALLS DUE TO HARD SOILS, INCLUDING DENSE CLAYS OR LIMESTONES, SANDS, DIFFICULT ACCESS, LOOSE SOILS, ETC.

18. DIFFICULT INSTALLATION AND REMOVAL CONDITIONS FOR THE BAFFLE BOX VAULT STRUCTURE, THE TEMPORARY CRITICAL SHEETPILE WALLS, DEWATERING SYSTEM, ETC. SHALL NOT BE GROUNDS FOR A CLAIM.

19. JOINT SEALANT: BUTYL RUBBER SS-S-00210.

20. ALL WALLS TO BE 10" THICK, BOTTOM TO BE 12" THICK AND TOP TO BE 12" THICK.

21. MINIMUM BAFFLE WALL THICKNESS 8".

22. TREATMENT DESIGN FLOW FOR 90" REMOVAL EFFICIENCY OF TSS IS 45 CFS.

23. INFLOW AND OUTFLOW PIPES ARE TO BE FLUSH WITH THE INSIDE SURFACE OF THE CONCRETE STRUCTURE. (CAN NOT INTRUDE BEYOND FLUSH)

24. BAFFLES ARE TO BE SEALED WITH GROUT TO FORM 3 WATER TIGHT CHAMBERS.

PAY ITEM NOTES:

425-1-902 INLETS (BAFFLE BOX) (>10')

ALL COSTS FOR LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS TO DESIGN, DETAIL, DEVELOP SHOP DRAWINGS, REVIEW TIME FOR ALL DESIGNS/DETAILS/SHOP DRAWINGS, FURNISH AND INSTALL THE BAFFLE BOX VAULT STRUCTURE (INCLUDING THE PRECAST STRUCTURE, ANY CAST-IN-PLACE CONCRETE, REINFORCING STEEL, BAFFLES, ETC.) AND THE TREATMENT EQUIPMENT (SKIMMER, NUTRIENT SEPARATING SCREEN SYSTEM, ETC.) SHALL BE INCLUDED IN THE UNIT BID PRICE FOR, BAFFLE BOX (FURNISH AND INSTALL), LUMP SUM.

ALL COSTS FOR LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS TO DESIGN, DEVELOP SHOP DRAWINGS, REVIEW TIME FOR ALL DESIGNS/DETAILS/SHOP DRAWINGS, FURNISHING , INSTALLING AND REMOVING THE TEMPORARY CRITICAL SHEETPILE WALLS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR BAFFLE BOX (FURNISH AND INSTALL), LUMP SUM.

ALL COSTS FOR LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS ASSOCIATED WITH DIFFICULT INSTALLATION OF THE BAFFLE BOX VAULT STRUCTURE, TEMPORARY CRITICAL SHEETPILE WALLS, DEWATERING SYSTEM, ETC. SHALL BE INCLUDED IN THE UNIT BID PRICE FOR BAFFLE BOX (FURNISH AND INSTALL), LUMP SUM.

ALL COSTS FOR LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS ASSOCIATED WITH DIFFICULT REMOVAL OF THE TEMPORARY CRITICAL SHEETPILE WALLS, DEWATERING SYSTEM, ETC. SHALL BE INCLUDED IN THE UNIT BID PRICE FOR BAFFLE BOX (FURNISH AND INSTALL), LUMP SUM.

PAYMENT FOR INCIDENTAL ITEMS NOT SPECIFICALLY COVERED IN THE INDIVIDUAL PAY ITEMS SHALL BE INCIDENTAL TO THE UNIT BID PRICES OF THE INCIDENTAL ITEMS.

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BAYVIEW DRIVE STREET AND DRAINAGE IMPROVEMENTS

SUB-CONSULTANTS

Mckim & Creed, Inc.
 3802 Ehrlich Road, Suite 306
 Tampa, Florida 33624
 (813)549-3740

APPROVED BY:

DATE: _____

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:

REVIEWED BY: BWB

DRAWN BY: VES

DESIGNED BY: VES

HORIZONTAL SCALE:

VERTICAL SCALE:

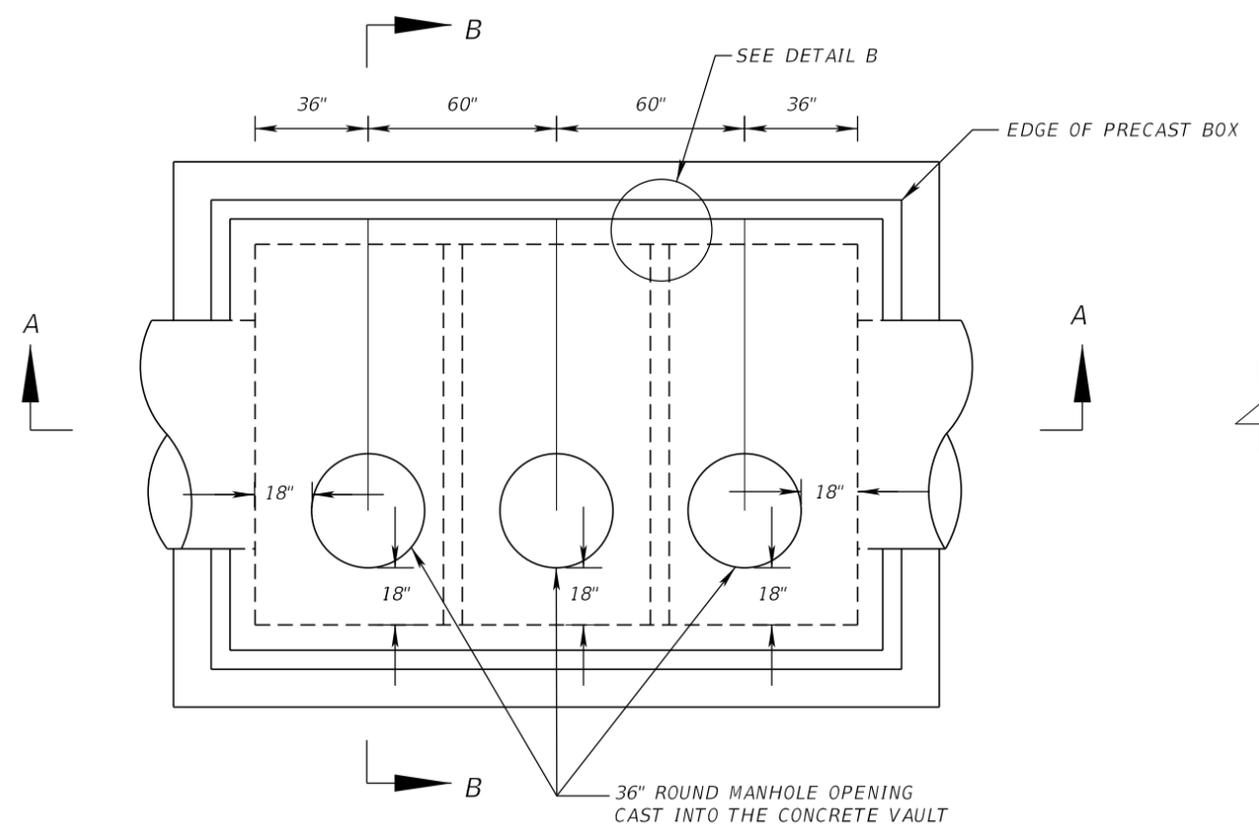
AEP NO.: 104-2881-001

SHEET TITLE

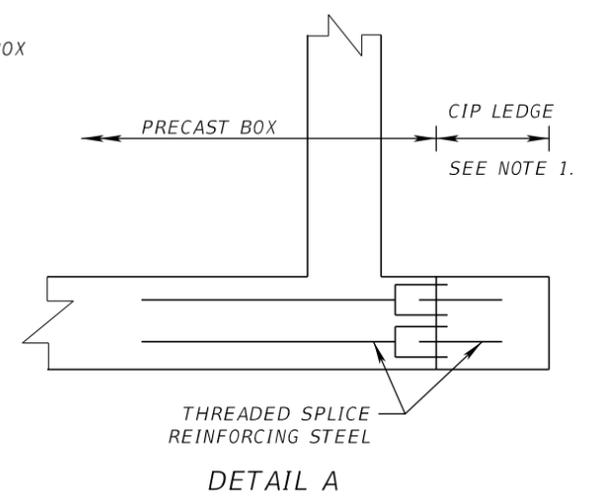
BAFFLE BOX DETAILS (3)

SHEET NUMBER

49

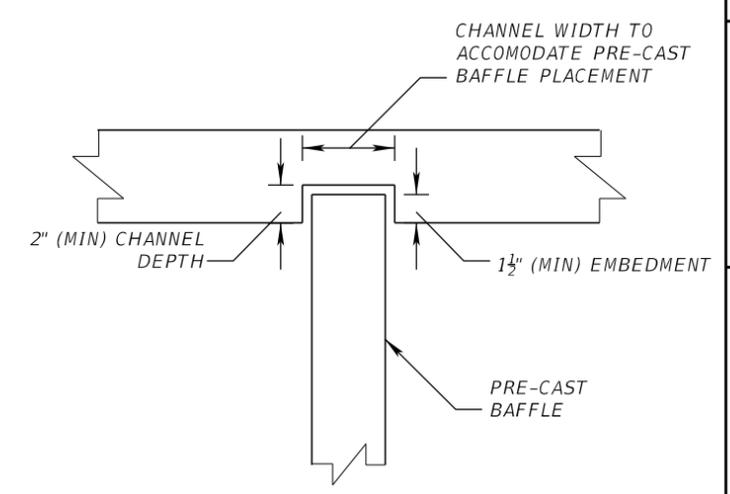


PLAN VIEW EXTERIOR

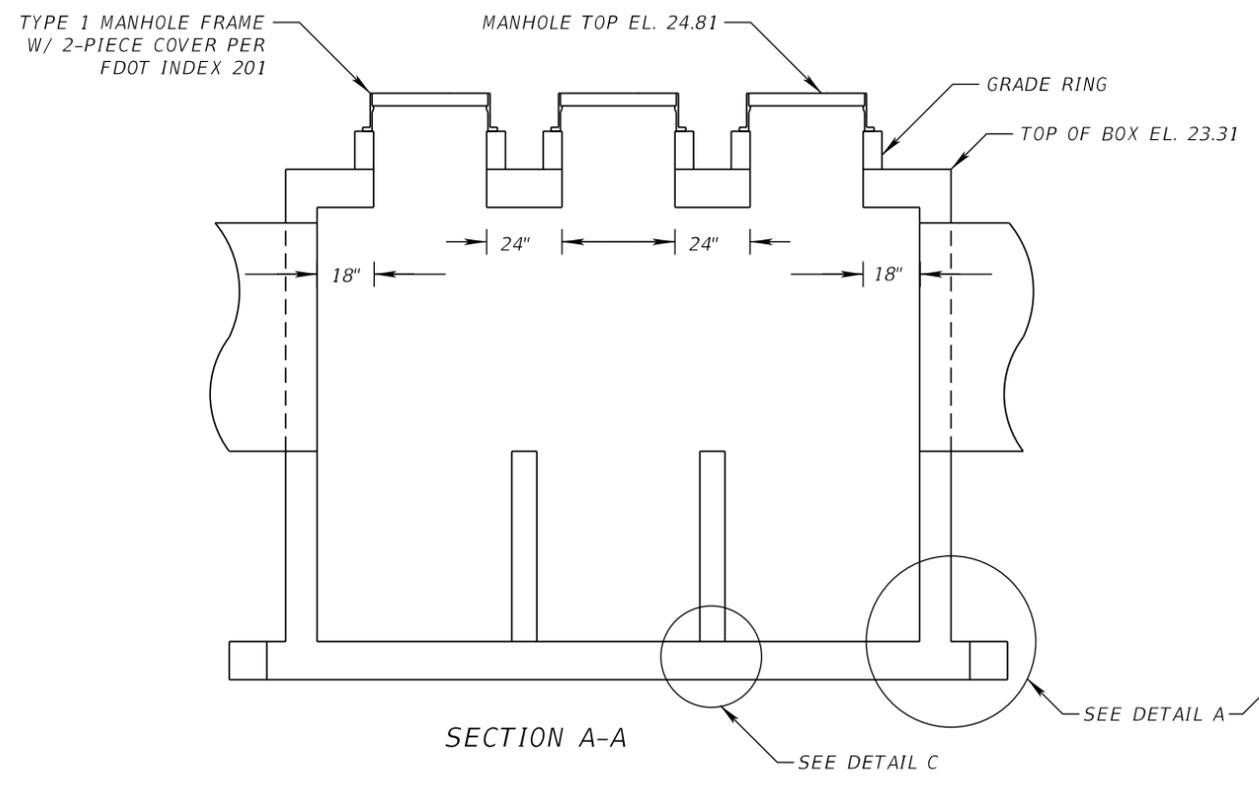


DETAIL A

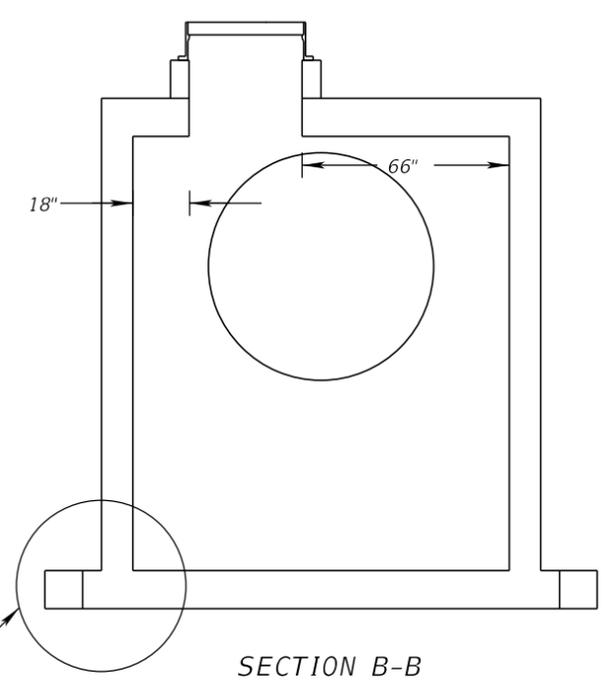
NOTES:
 1. THE CIP LEDGE SIZE & REINFORCING SHALL BE DESIGNED BY THE CONTRACTORS ENGINEER OF RECORD.



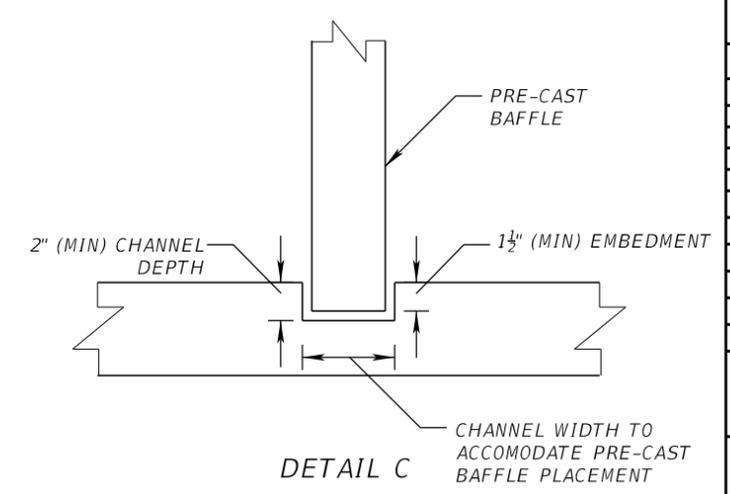
DETAIL B



SECTION A-A



SECTION B-B



DETAIL C

← CONST. BAYVIEW DR.

Regular Exc.		Embankment	
A	V	A	V



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NO.	DESCRIPTION	DATE

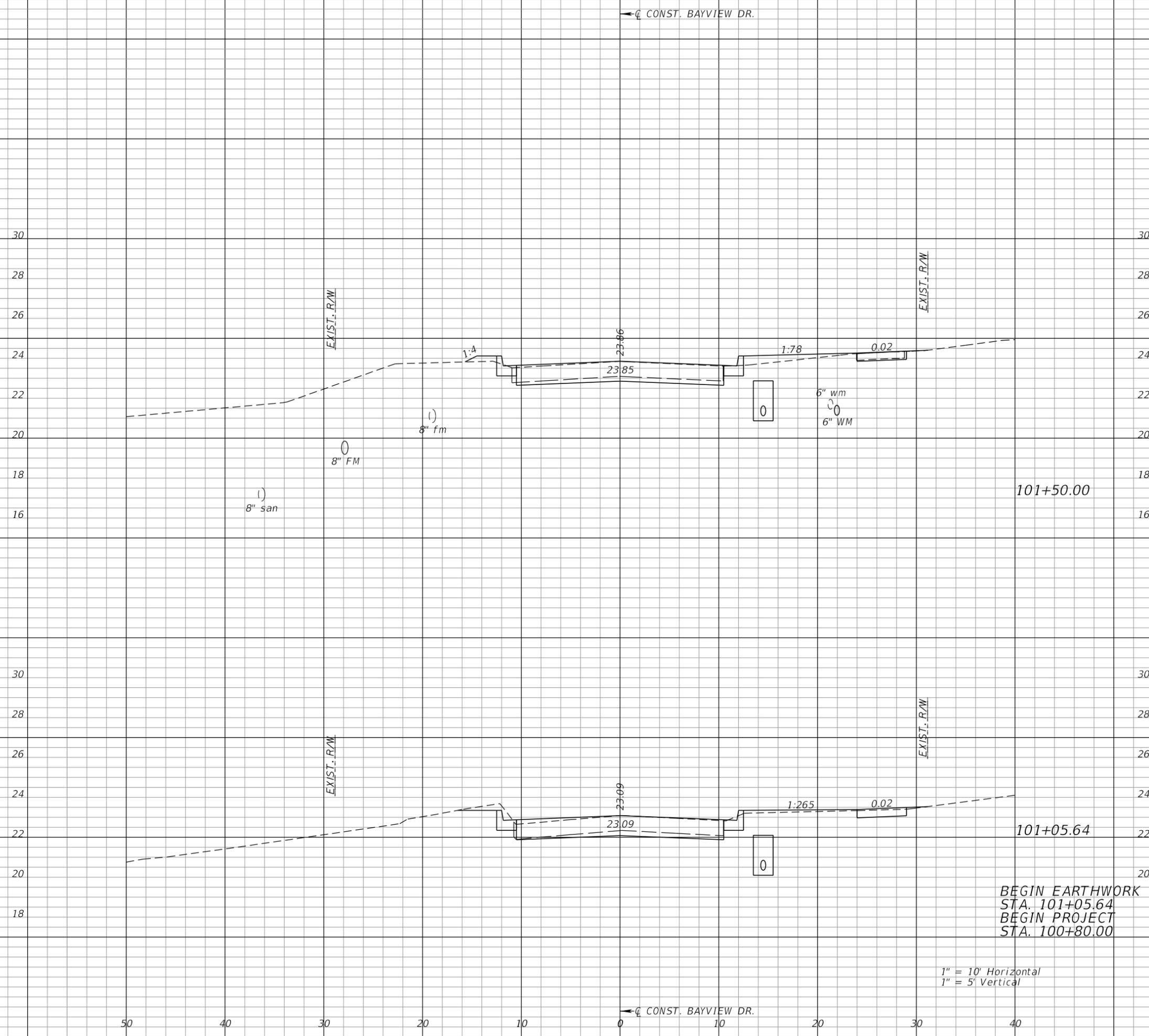
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 REVIEWED BY: BWB
 DRAWN BY: VES
 DESIGNED BY: VES
 HORIZONTAL SCALE: _____
 VERTICAL SCALE: _____
 AEP NO.: 104-2881-001

SHEET TITLE

CROSS SECTIONS
 BAYVIEW DRIVE

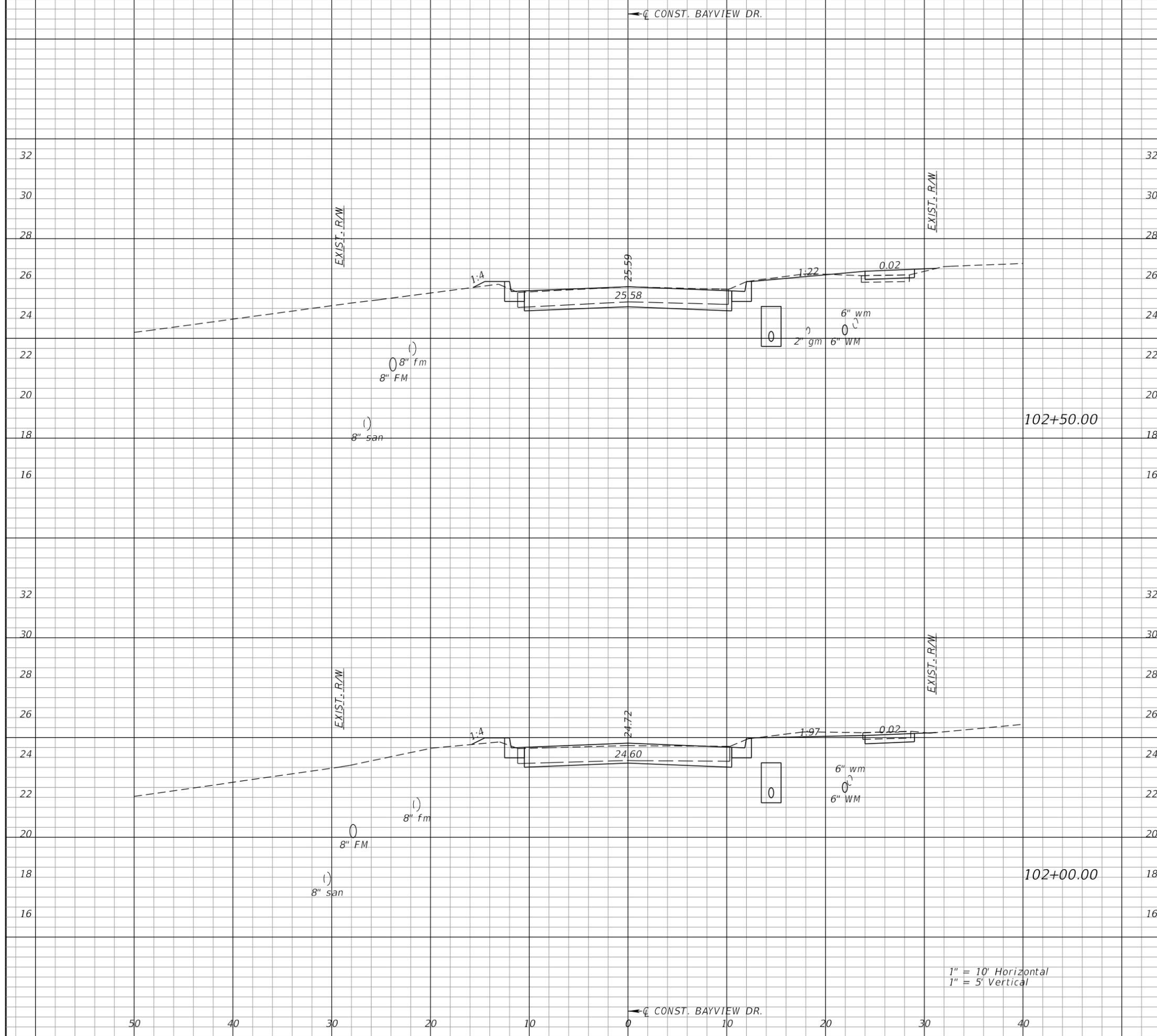
SHEET NUMBER

50



← CONST. BAYVIEW DR.

50 40 30 20 10 0 10 20 30 40



Station	Regular Exc.		Embankment	
	A	V	A	V
102+50.00	24	43	1	1
102+00.00	23	41	1	2



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VERTICAL SCALE: _____

AEP NO.: 104-2881-001

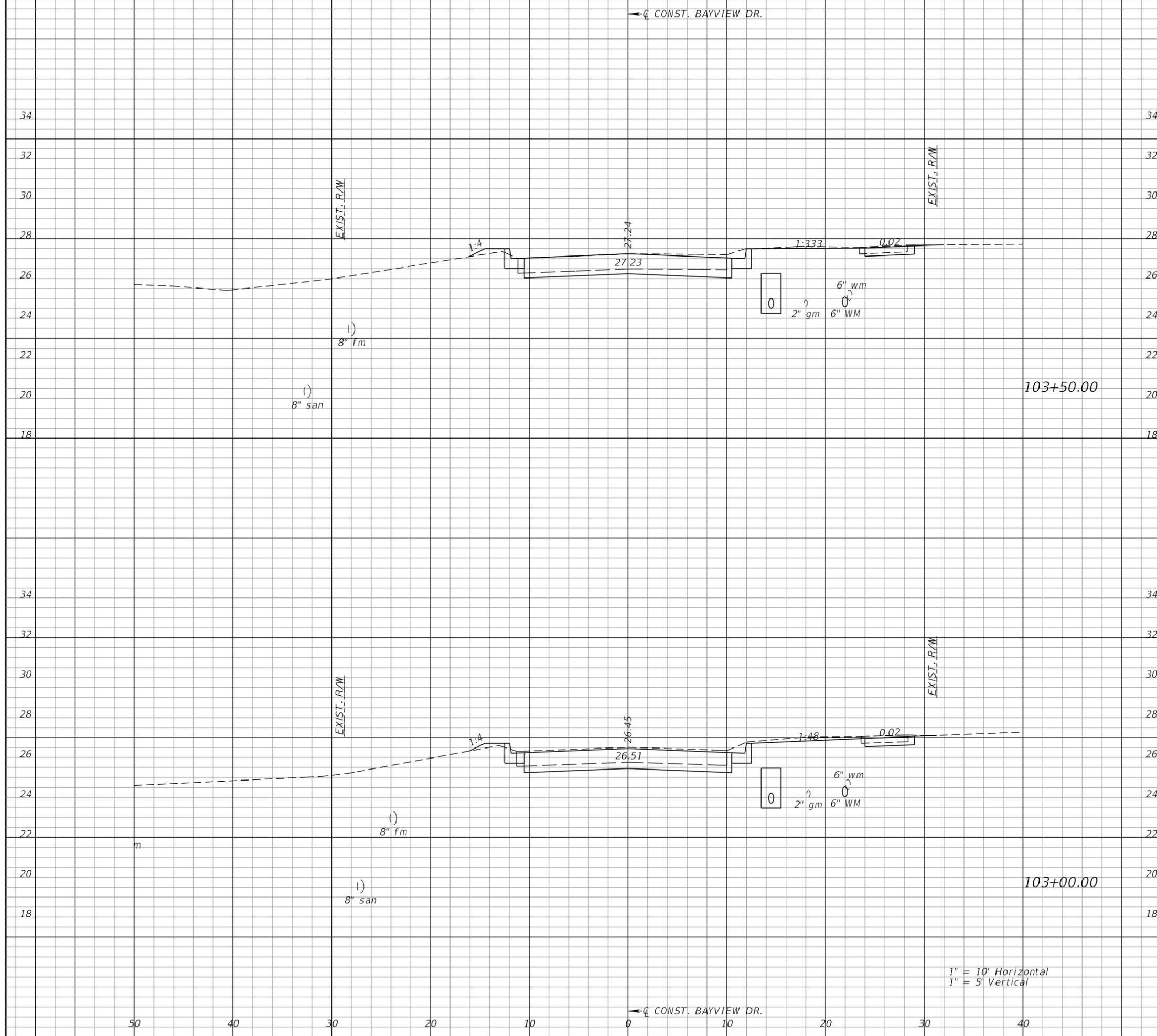
SHEET TITLE

**CROSS SECTIONS
BAYVIEW DRIVE**

SHEET NUMBER

51

1" = 10' Horizontal
1" = 5' Vertical



Regular		Exc.		Embankment	
A	V	A	V	A	V
25	47	1	1		
26	47	1	1		



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DESIGNED BY: VES
HORIZONTAL SCALE: _____
VERTICAL SCALE: _____
AEP NO.: 104-2881-001

SHEET TITLE
**CROSS SECTIONS
BAYVIEW DRIVE**

SHEET NUMBER
52

1" = 10' Horizontal
1" = 5' Vertical

← CONST. BAYVIEW DR.

← CONST. BAYVIEW DR.

50 40 30 20 10 0 10 20 30 40

← CONST. BAYVIEW DR.

Regular Exc.		Embankment	
A	V	A	V



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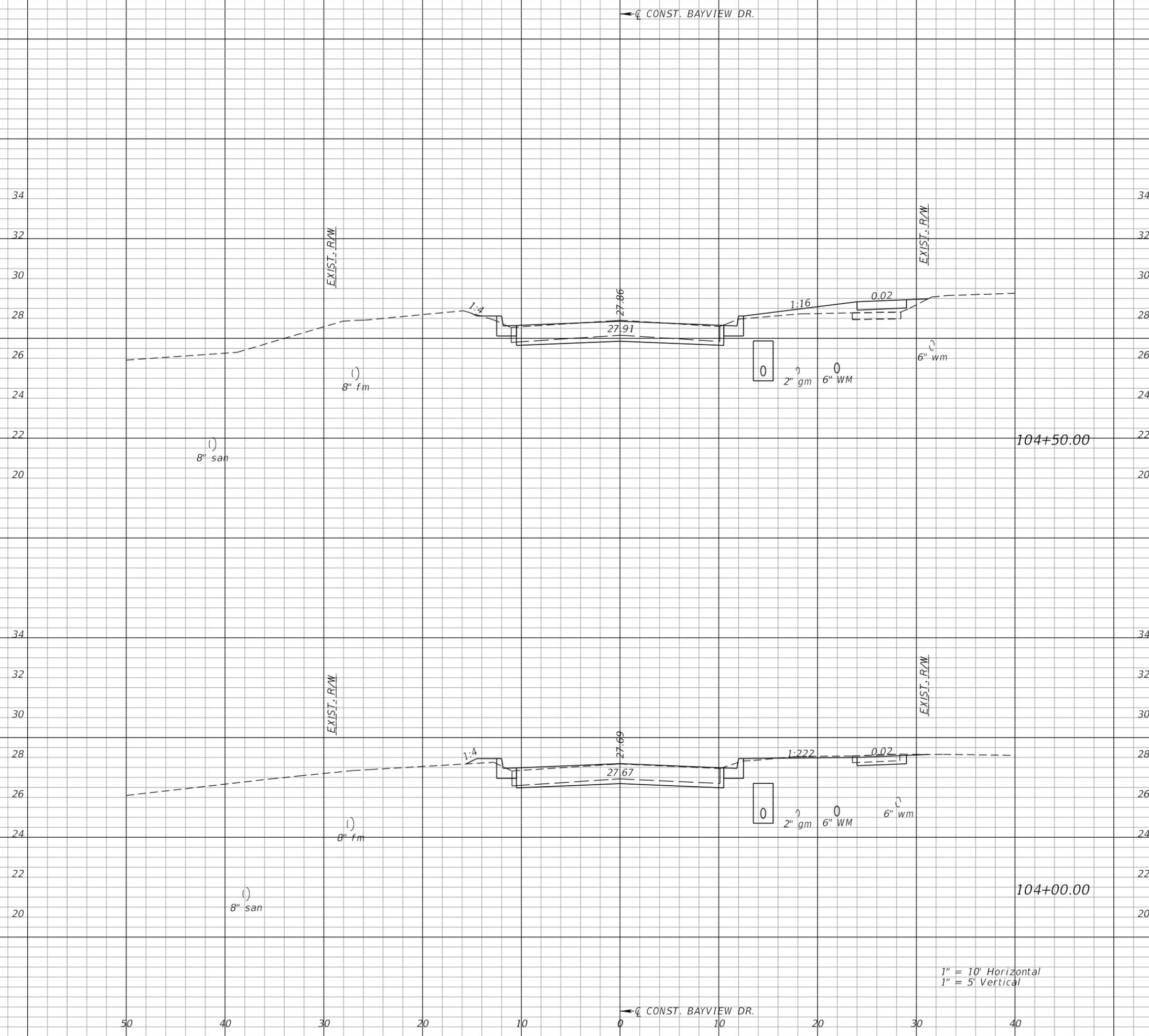
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 HORIZONTAL SCALE:
 VERTICAL SCALE:
 AEP NO.: 104-2881-001

SHEET TITLE

CROSS SECTIONS
BAYVIEW DRIVE

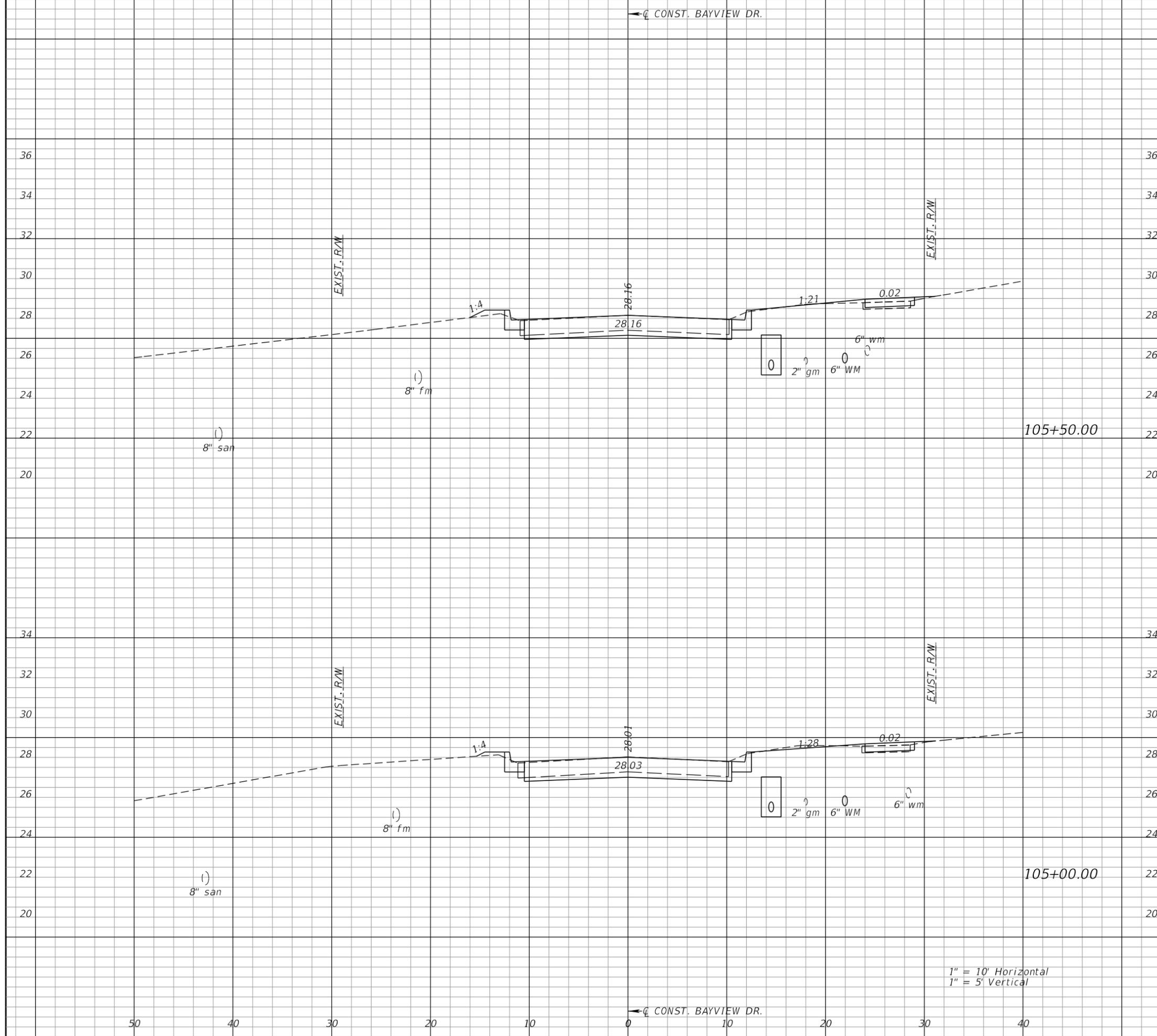
SHEET NUMBER

53



1" = 10' Horizontal
 1" = 5' Vertical

← CONST. BAYVIEW DR.



Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
105+50.00	23	44	1	1		
105+00.00	24	43	0	1		



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HORIZONTAL SCALE: _____
VERTICAL SCALE: _____
AEP NO.: 104-2881-001

SHEET TITLE
**CROSS SECTIONS
BAYVIEW DRIVE**

SHEET NUMBER
54

1" = 10' Horizontal
1" = 5' Vertical

← CONST. BAYVIEW DR.

Regular		Exc.		Embankment	
A	V	A	V	A	V



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VERTICAL SCALE:

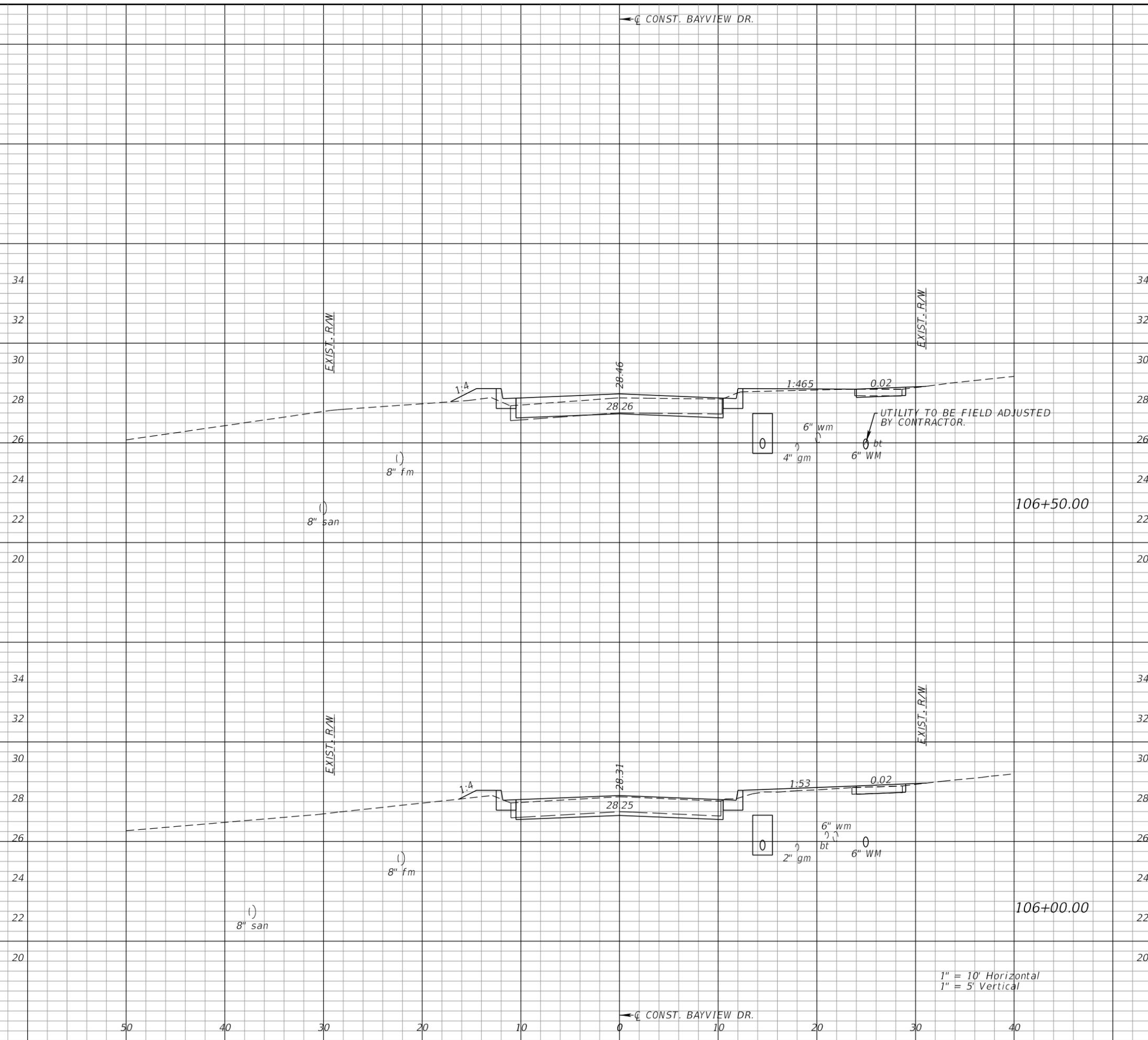
AEP NO.: 104-2881-001

SHEET TITLE

**CROSS SECTIONS
 BAYVIEW DRIVE**

SHEET NUMBER

55



1" = 10' Horizontal
 1" = 5' Vertical

← CONST. BAYVIEW DR.

← CONST. BAYVIEW DR.

Regular		Exc.		Embankment	
A	V	A	V	A	V



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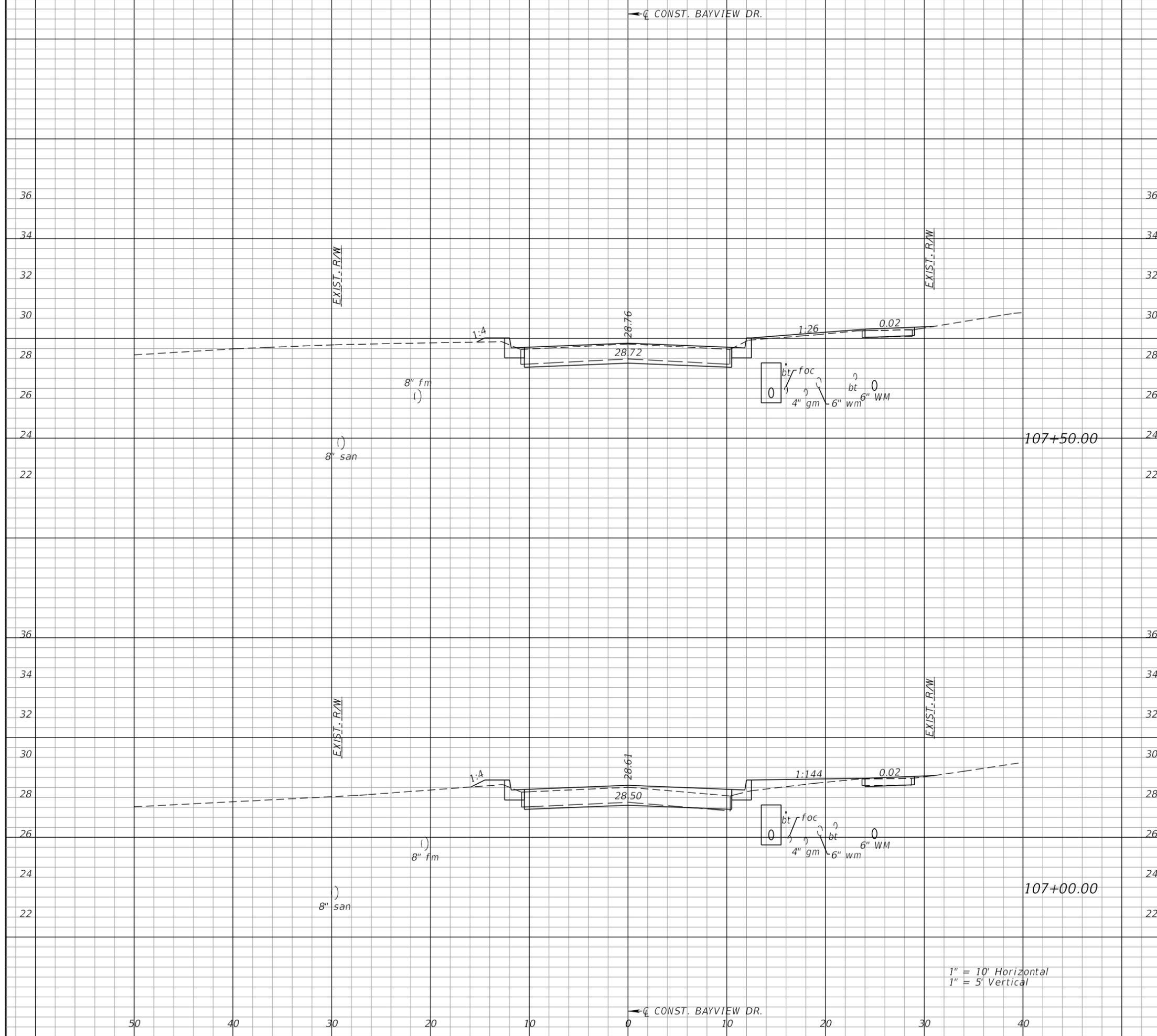
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 REVIEWED BY: BWB
 DRAWN BY: VES
 DESIGNED BY: VES
 HORIZONTAL SCALE: _____
 VERTICAL SCALE: _____
 AEP NO.: 104-2881-001

SHEET TITLE

**CROSS SECTIONS
 BAYVIEW DRIVE**

SHEET NUMBER

56



107+50.00

22

38

1

2

107+00.00

19

35

2

4

1" = 10' Horizontal
 1" = 5' Vertical

← CONST. BAYVIEW DR.

50 40 30 20 10 0 10 20 30 40

← CONST. BAYVIEW DR.

Regular		Exc.		Embankment	
A	V	A	V	A	V



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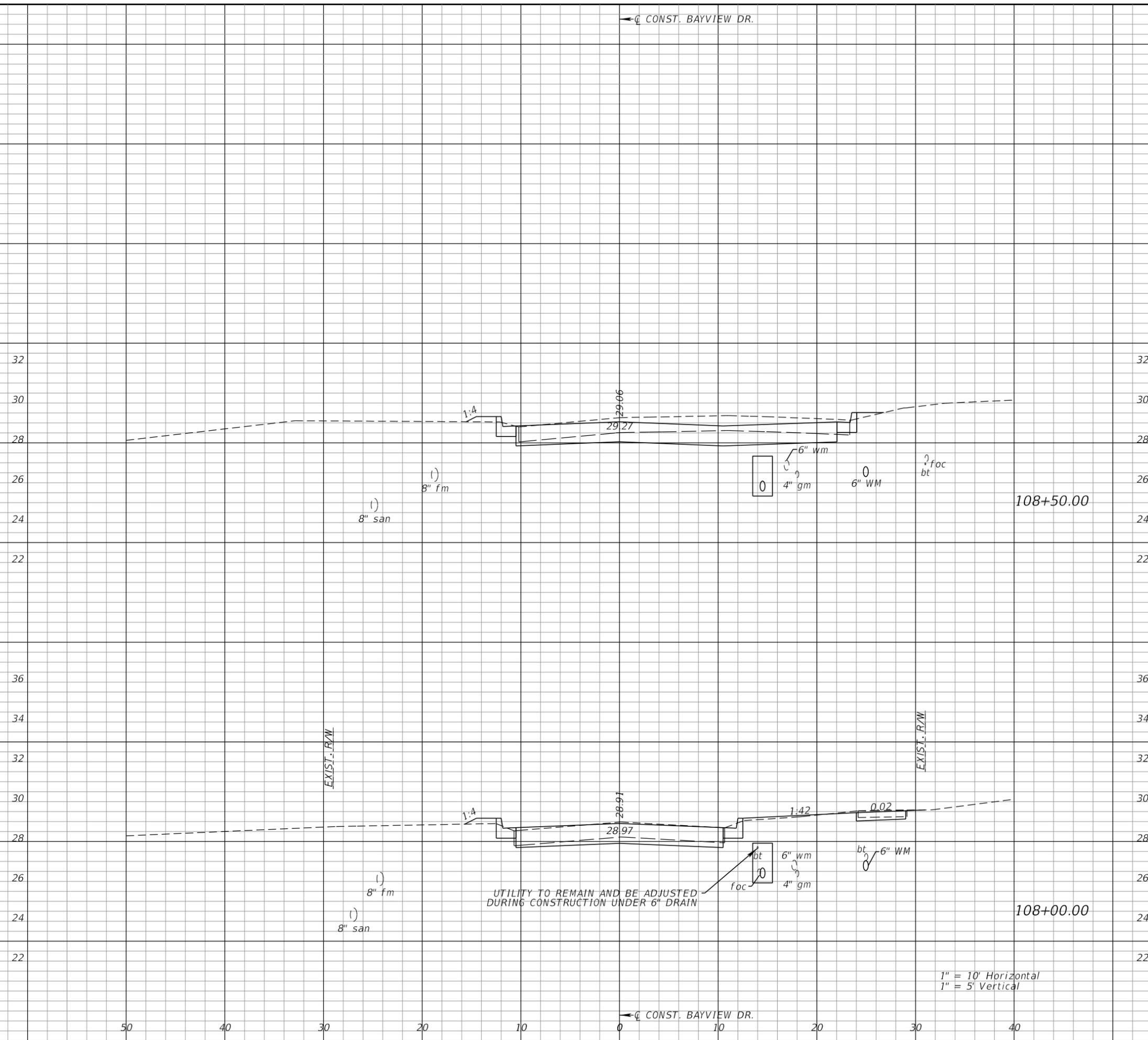
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 DESIGNED BY: VES
 HORIZONTAL SCALE:
 VERTICAL SCALE:
 AEP NO.: 104-2881-001

SHEET TITLE

CROSS SECTIONS
 BAYVIEW DRIVE

SHEET NUMBER

57



44

62

1

2

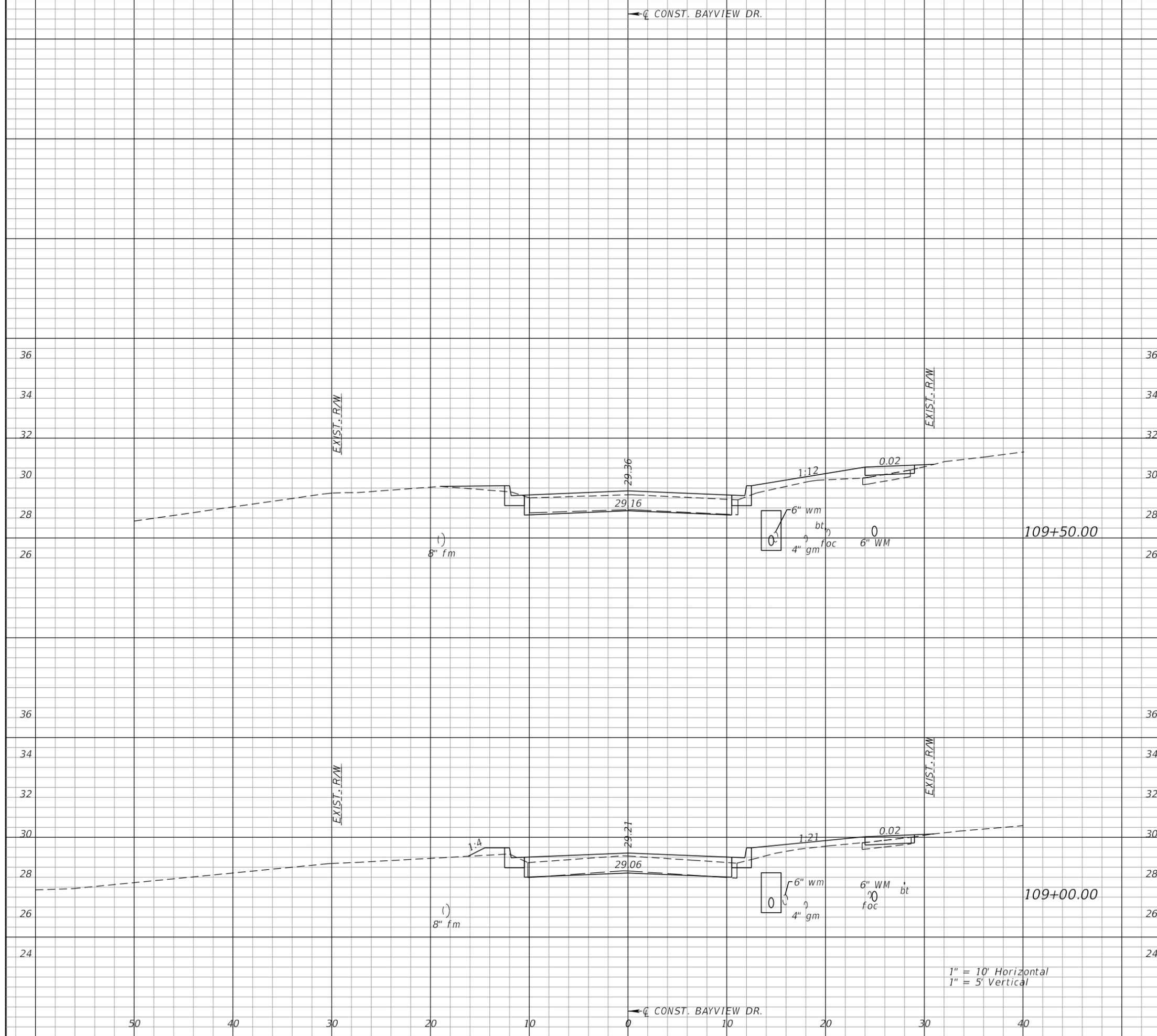
23

42

1

1

← CONST. BAYVIEW DR.



Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
109+50.00	19	35	1	3		
109+00.00	18	57	2	3		



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DESIGNED BY: VES
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VERTICAL SCALE: _____
AEP NO.: 104-2881-001

SHEET TITLE
CROSS SECTIONS BAYVIEW DRIVE

SHEET NUMBER
58

1" = 10' Horizontal
1" = 5' Vertical

← CONST. BAYVIEW DR.

Regular		Exc.		Embankment	
A	V	A	V	A	V



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HORIZONTAL SCALE:

VERTICAL SCALE:

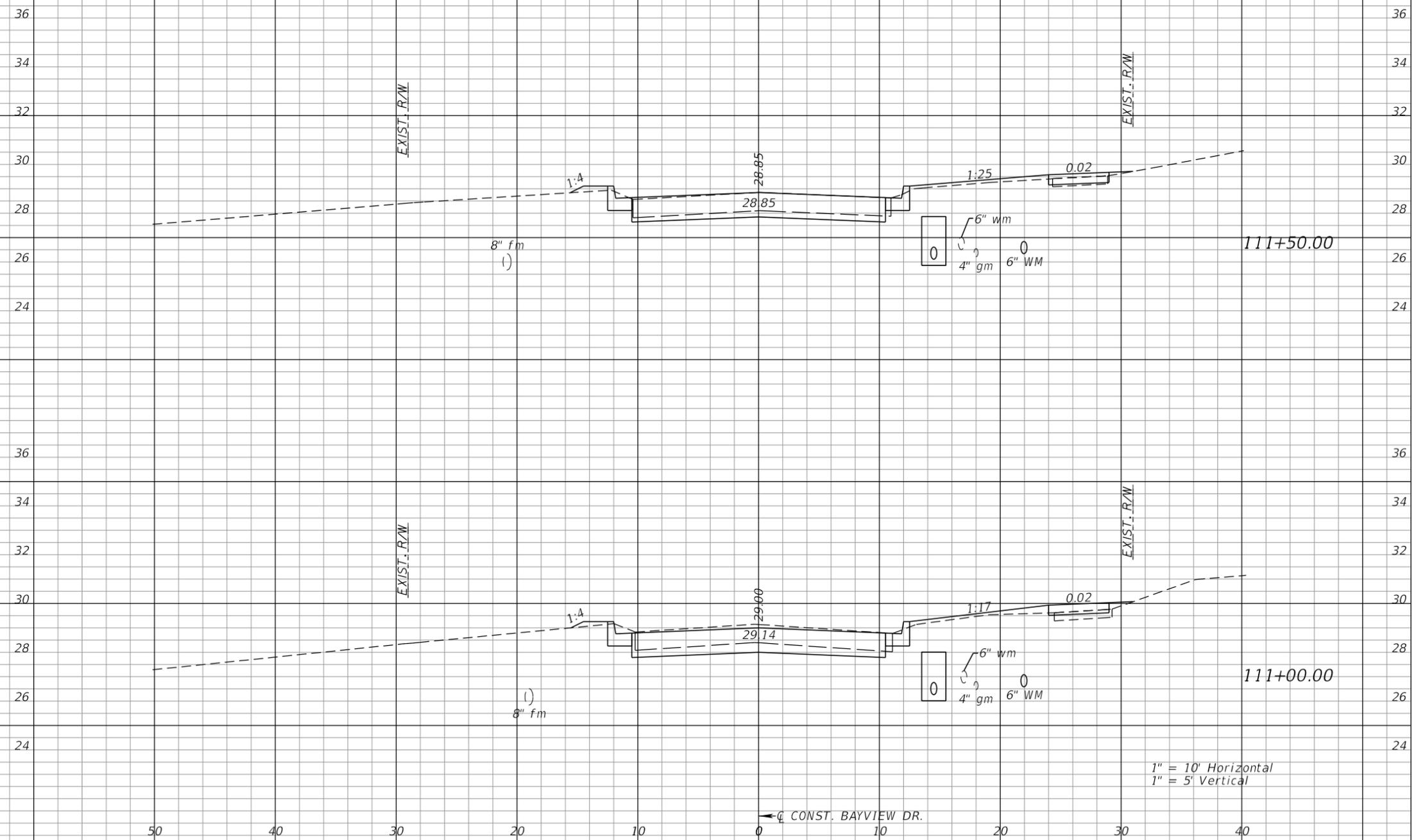
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SHEET TITLE

CROSS SECTIONS
 BAYVIEW DRIVE

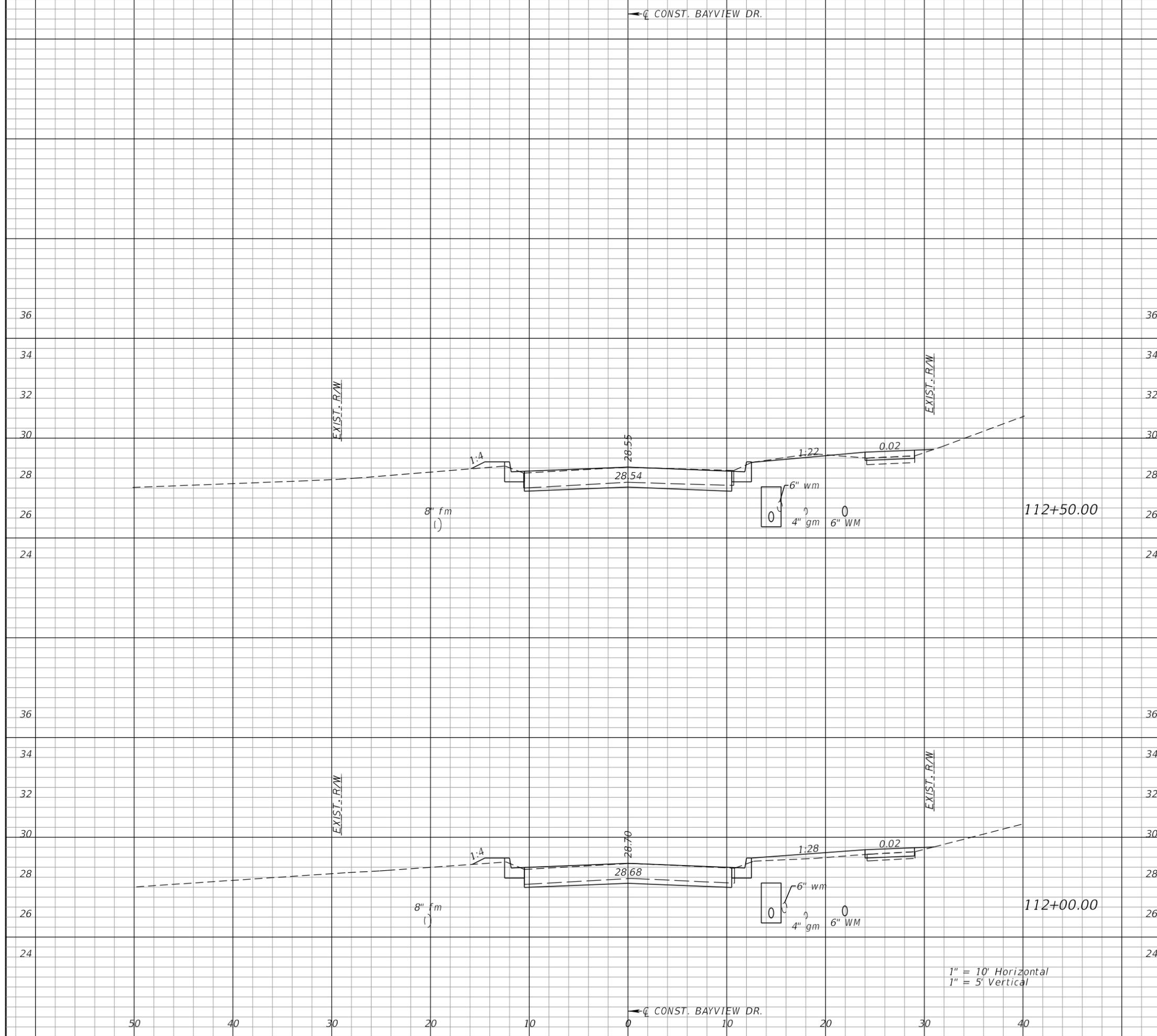
SHEET NUMBER

60



← CONST. BAYVIEW DR.

1" = 10' Horizontal
 1" = 5' Vertical



Regular		Exc.		Embankment	
A	V	A	V	A	V
24			43	1	2
23			42	1	2



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 HORIZONTAL SCALE:
 VERTICAL SCALE:
 AEP NO.: 104-2881-001

SHEET TITLE

CROSS SECTIONS
 BAYVIEW DRIVE

SHEET NUMBER

61

1" = 10' Horizontal
 1" = 5' Vertical

← CONST. BAYVIEW DR.

Regular		Exc.		Embankment	
A	V	A	V	A	V



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DESIGNED BY: VES

HORIZONTAL SCALE:

VERTICAL SCALE:

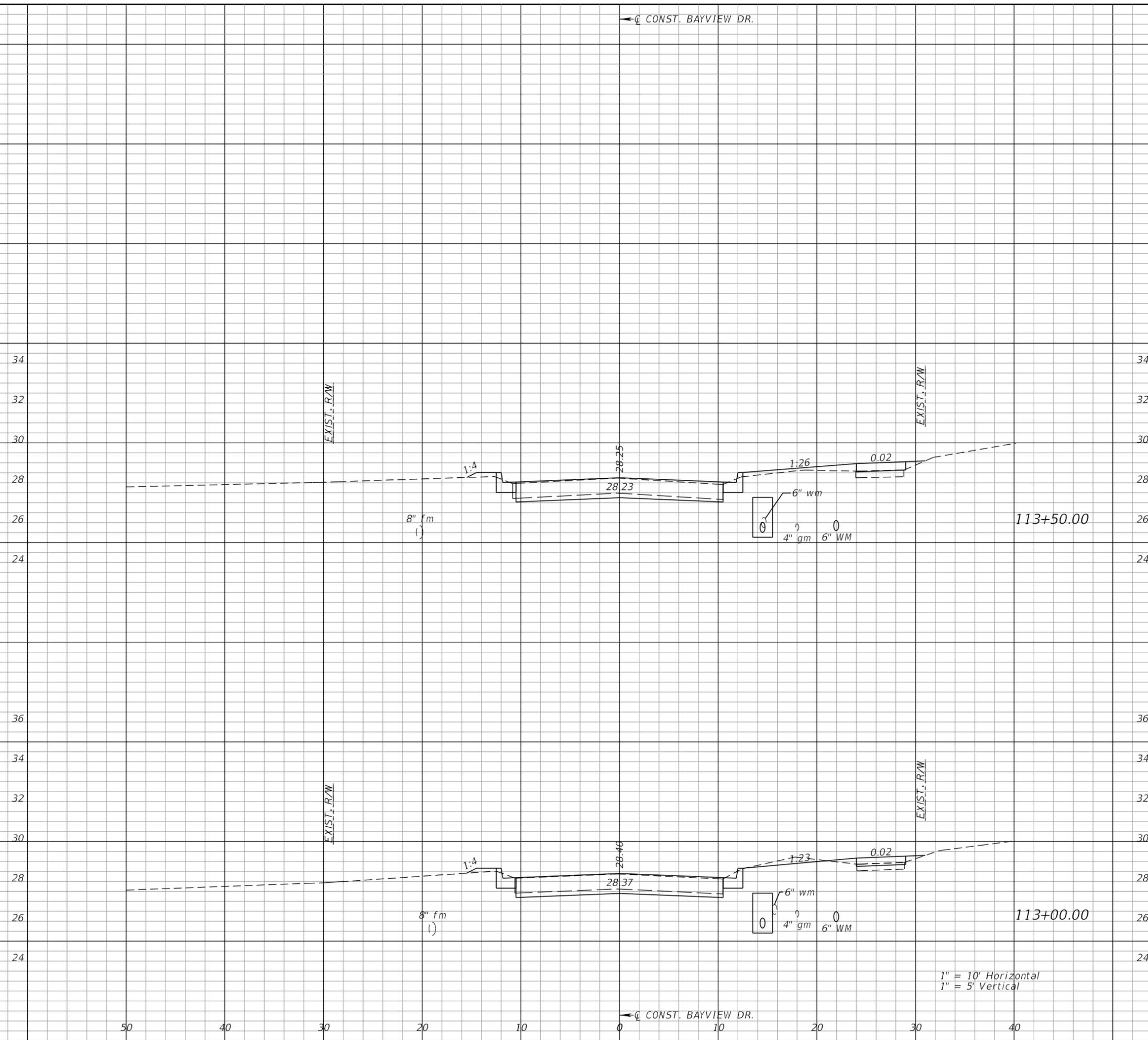
AEP NO.: 104-2881-001

SHEET TITLE

CROSS SECTIONS
 BAYVIEW DRIVE

SHEET NUMBER

62



22

42

1

1

23

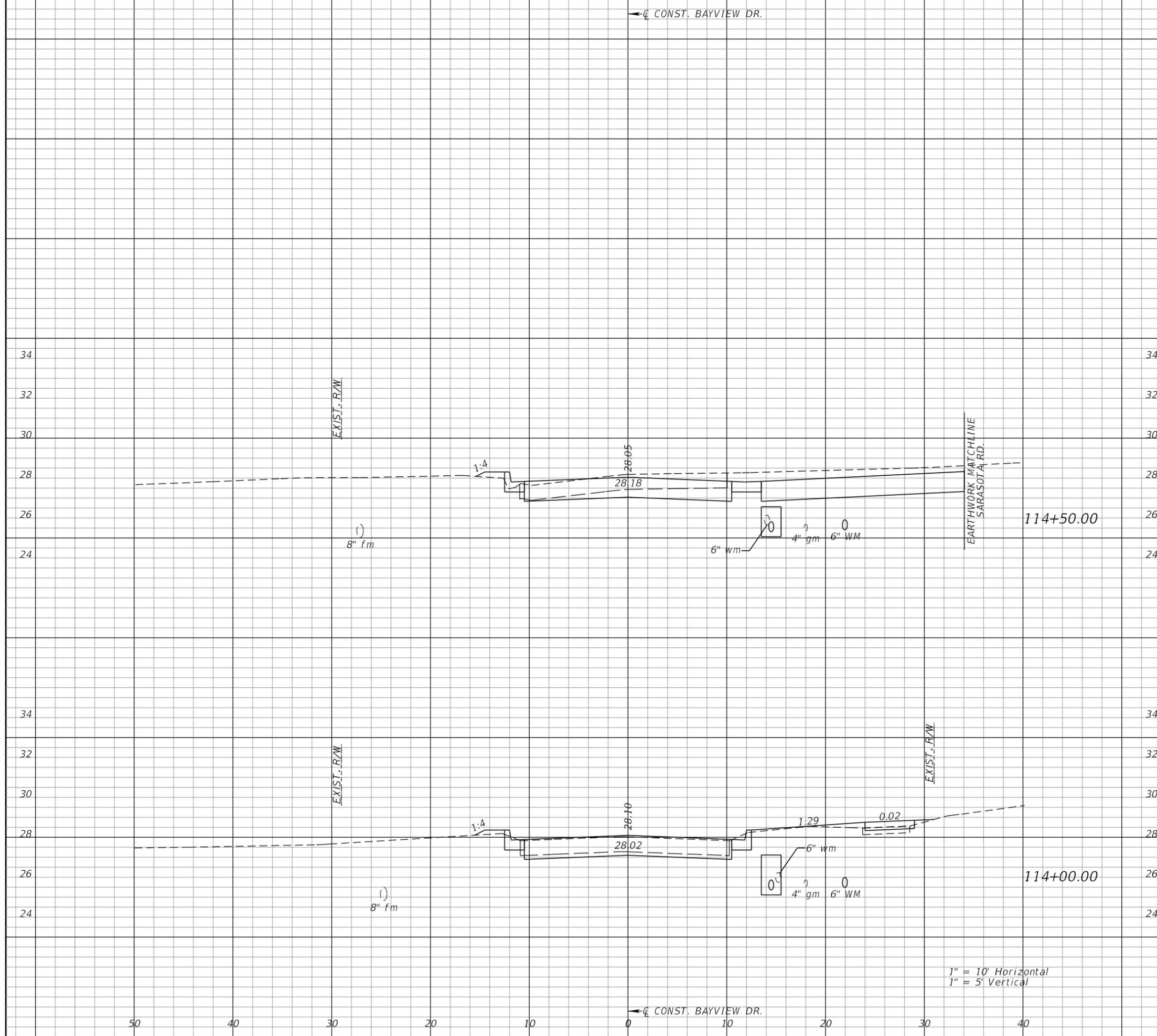
43

1

1

1" = 10' Horizontal
 1" = 5' Vertical

← CONST. BAYVIEW DR.



Regular		Exc.		Embankment	
A	V	A	V	A	V
49			66	1	
22			41	1	



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 www.rsandh.com
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 EB0005620 LCC000210



TOWN OF BELLEAIR
 PUBLIC WORKS DEPARTMENT
 901 PONCE DE LEON BLVD.
 BELLEAIR, FL 33756

BAYVIEW DRIVE STREET AND DRAINAGE IMPROVEMENTS

SUB-CONSULTANTS

Mckim & Creed, Inc.
 3802 Ehrlich Road, Suite 306
 Tampa, Florida 33624
 (813)549-3740

APPROVED BY:

BRET W. BENNETT, P.E.
 FLA. REG. NO. 53977
 DATE: _____

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:

REVIEWED BY: BWB

DRAWN BY: VES

DESIGNED BY: VES

HORIZONTAL SCALE:

VERTICAL SCALE:

AEP NO.: 104-2881-001

SHEET TITLE

CROSS SECTIONS
 BAYVIEW DRIVE

SHEET NUMBER

63

1" = 10' Horizontal
 1" = 5' Vertical

← CONST. BAYVIEW DR.

← CONST. BAYVIEW DR.

← C CONST. BAYVIEW DR.

Regular		Exc.		Embankment	
A	V	A	V	A	V



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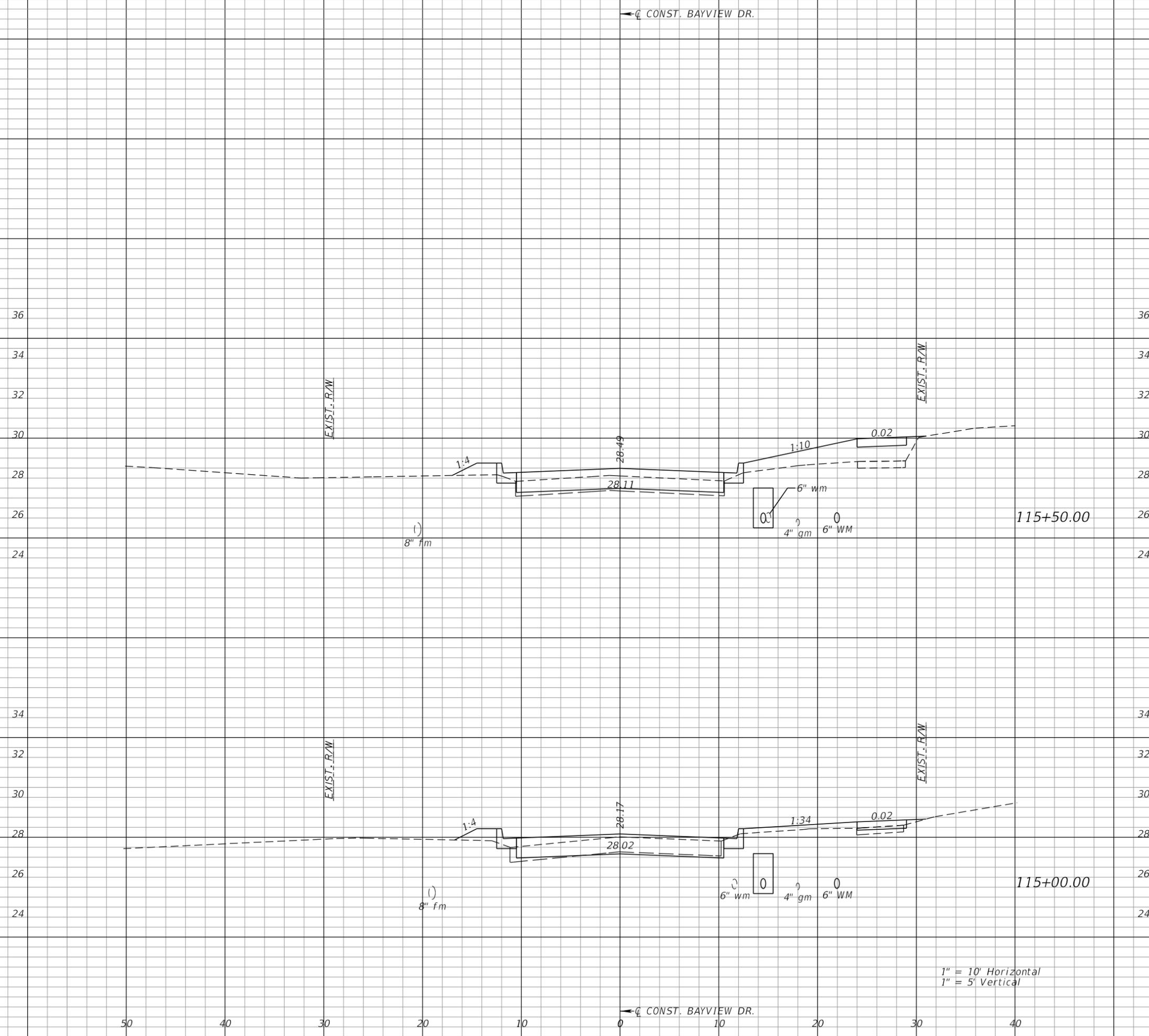
AEP NO.: 104-2881-001

SHEET TITLE

CROSS SECTIONS
 BAYVIEW DRIVE

SHEET NUMBER

64



14
 29
 3
 5

18
 62
 2
 3

1" = 10' Horizontal
 1" = 5' Vertical

← C CONST. BAYVIEW DR.

50 40 30 20 10 0 10 20 30 40

← CONST. BAYVIEW DR.

Regular Exc.		Embankment	
A	V	A	V



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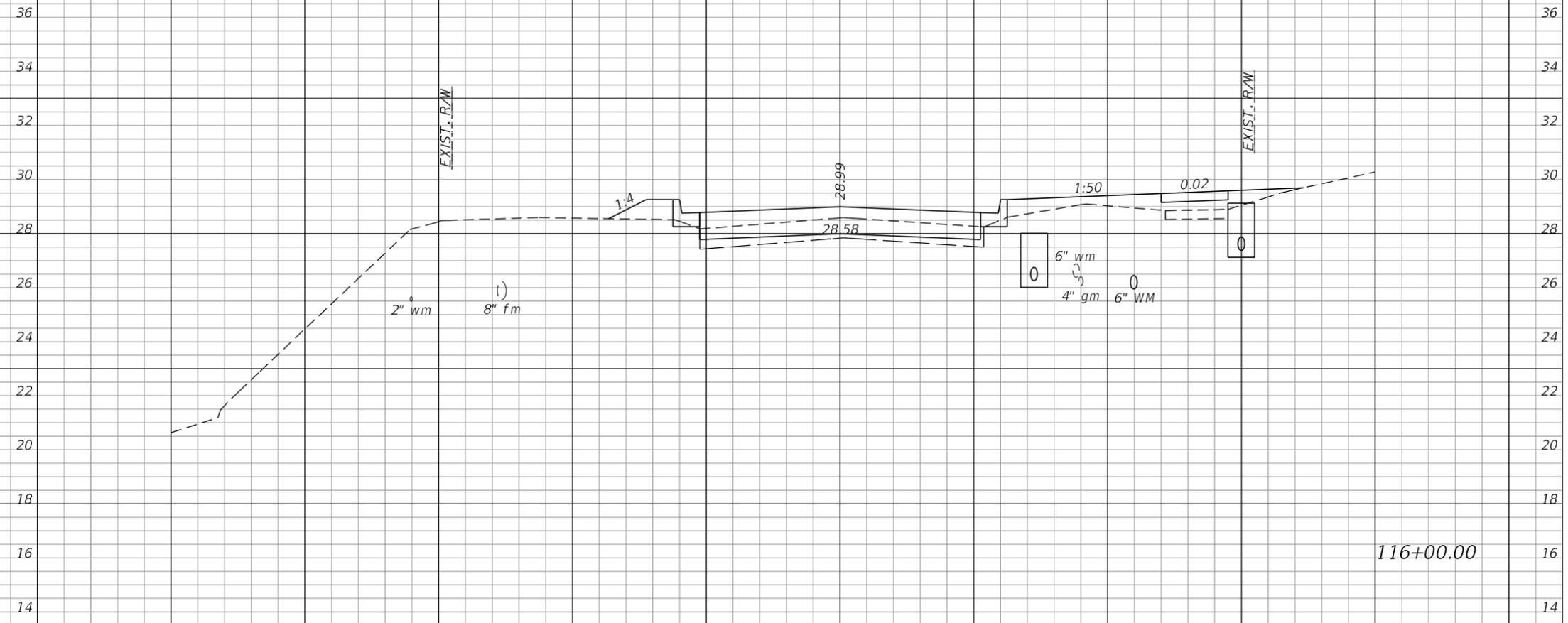
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SHEET TITLE

CROSS SECTIONS
 BAYVIEW DRIVE

SHEET NUMBER

65

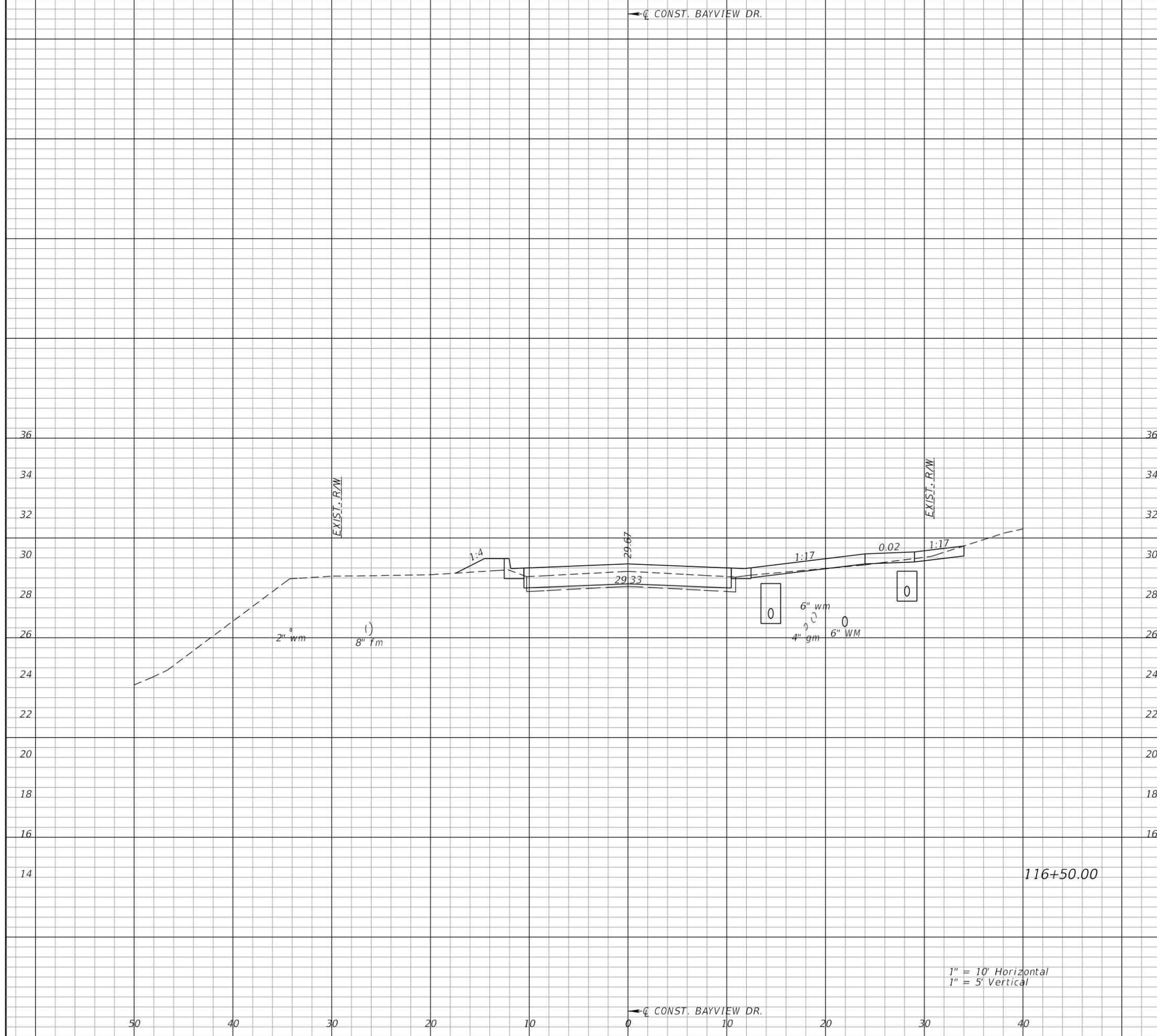


1" = 10' Horizontal
 1" = 5' Vertical

← CONST. BAYVIEW DR.

11	23	4	6
----	----	---	---

50 40 30 20 10 0 10 20 30 40



Regular		Exc.		Embankment	
A	V	A	V	A	V
13	23	5	8		



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SHEET TITLE
**CROSS SECTIONS
BAYVIEW DRIVE**

SHEET NUMBER
66

1" = 10' Horizontal
1" = 5' Vertical

← CONST. BAYVIEW DR.

Regular		Exc.		Embankment	
A	V	A	V	A	V



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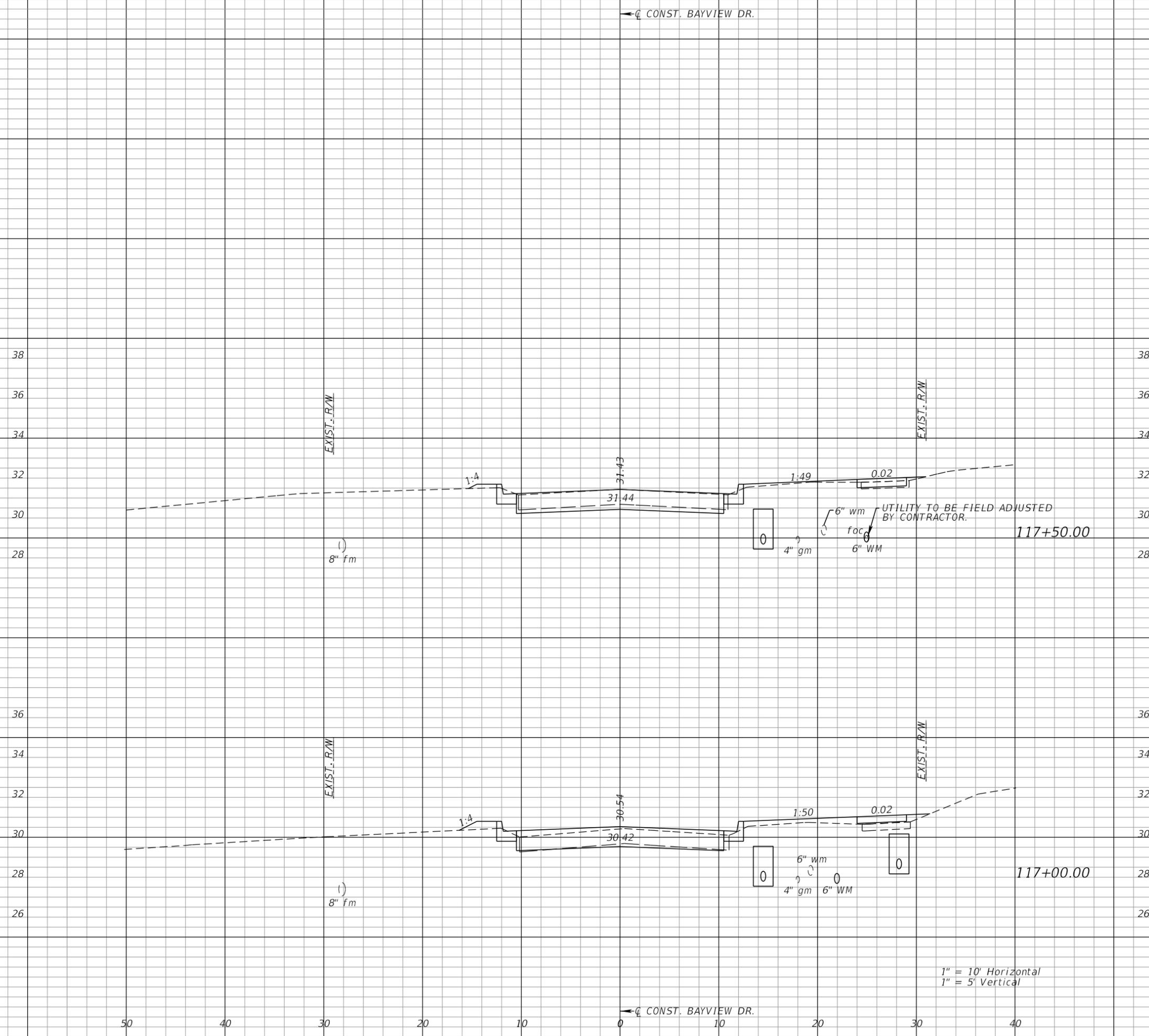
AEP NO.: 104-2881-001

SHEET TITLE

CROSS SECTIONS
 BAYVIEW DRIVE

SHEET NUMBER

67



← CONST. BAYVIEW DR.

1" = 10' Horizontal
 1" = 5' Vertical

23	39	1	2
19	30	2	6

50 40 30 20 10 0 10 20 30 40

← CONST. BAYVIEW DR.

Regular		Exc.		Embankment	
A	V	A	V	A	V



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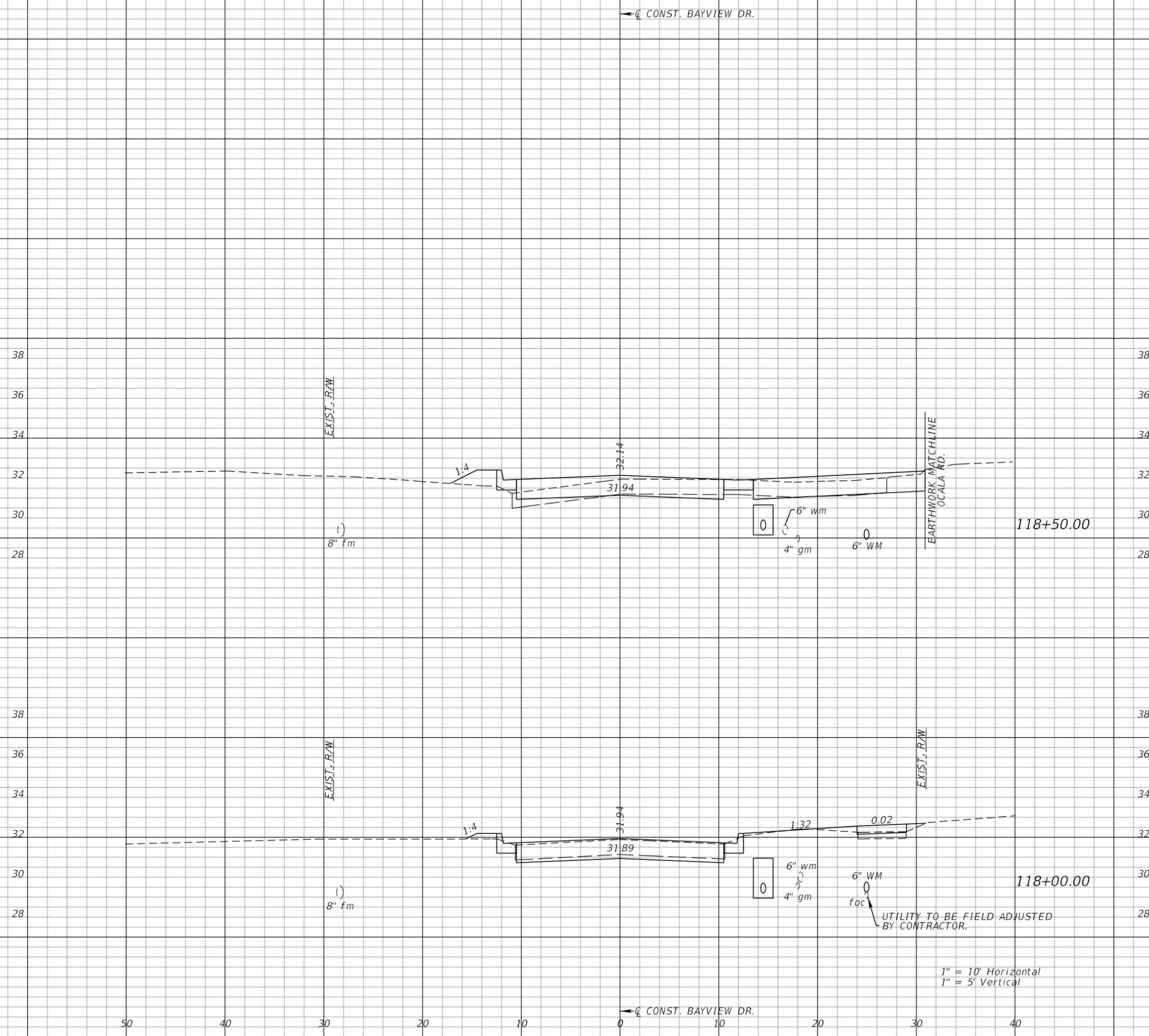
AEP NO.: 104-2881-001

SHEET TITLE

CROSS SECTIONS
 BAYVIEW DRIVE

SHEET NUMBER

68



← CONST. BAYVIEW DR.

50 40 30 20 10 0 10 20 30 40

← CONST. BAYVIEW DR.

Regular		Exc.		Embankment	
A	V	A	V	A	V



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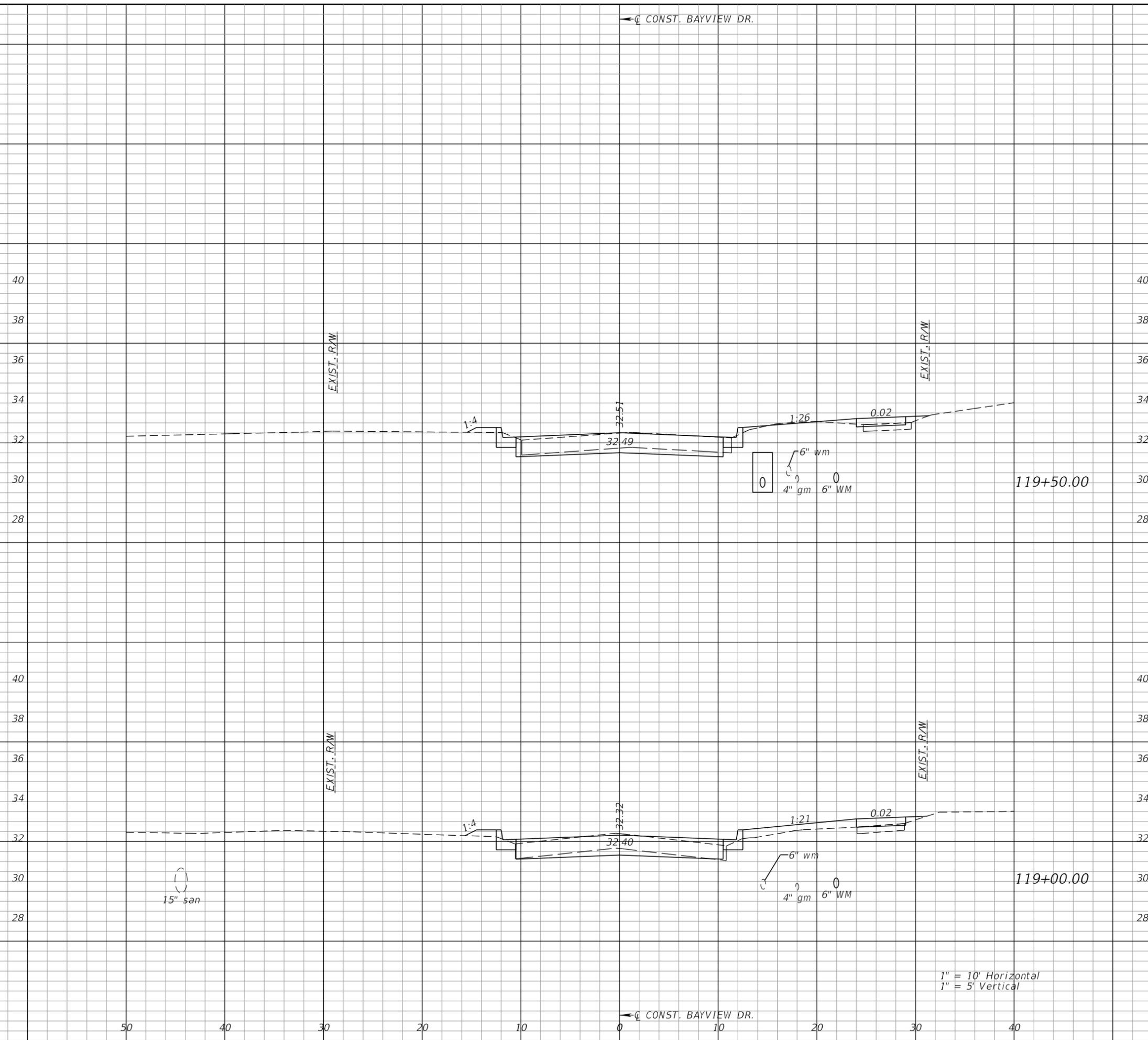
AEP NO.: 104-2881-001

SHEET TITLE

CROSS SECTIONS
 BAYVIEW DRIVE

SHEET NUMBER

69



23	40	1	2
----	----	---	---

21	48	2	4
----	----	---	---

1" = 10' Horizontal
 1" = 5' Vertical

← CONST. BAYVIEW DR.

50 40 30 20 10 0 10 20 30 40

← CONST. BAYVIEW DR.

Regular		Exc.		Embankment	
A	V	A	V	A	V



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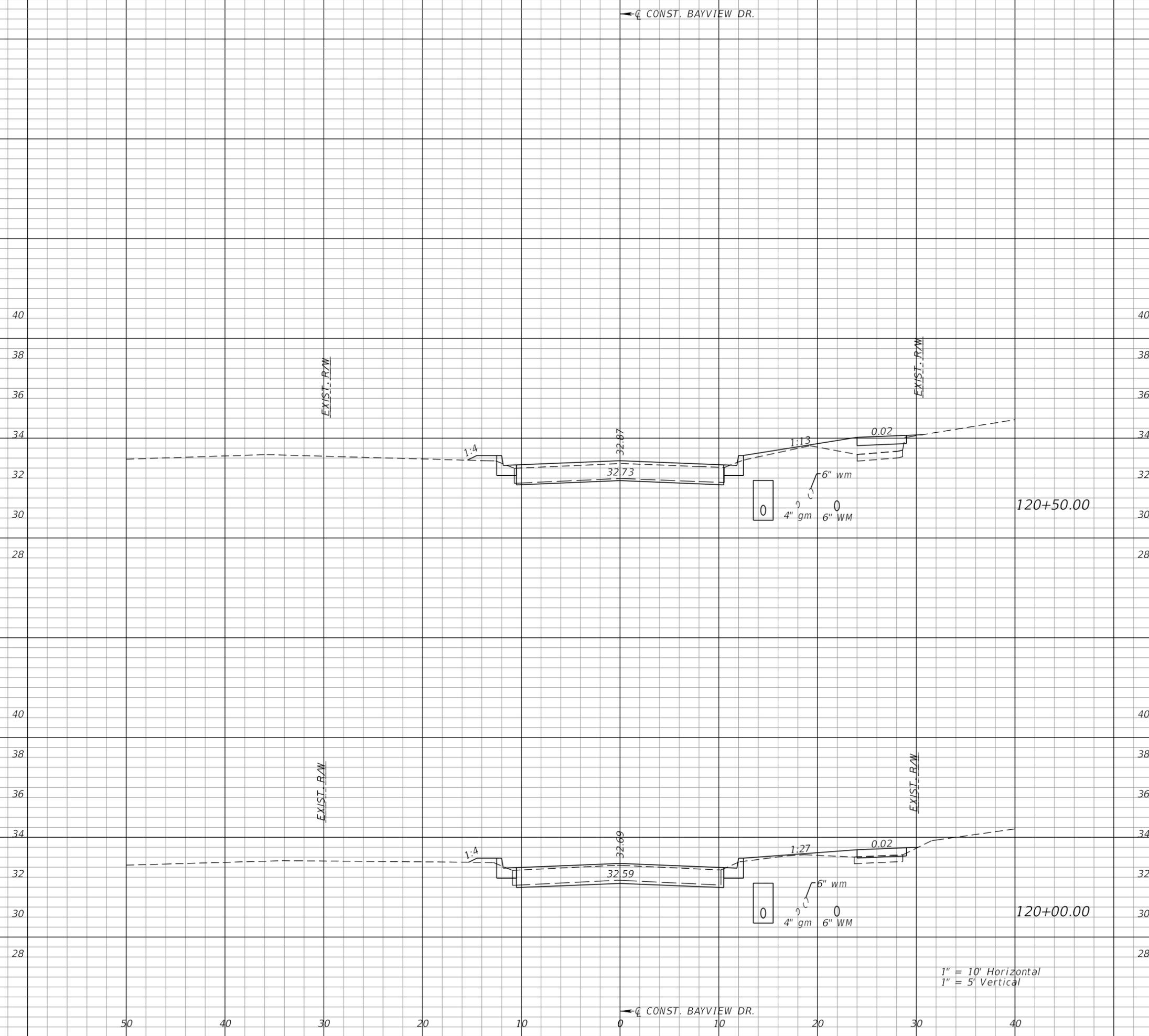
AEP NO.: 104-2881-001

SHEET TITLE

CROSS SECTIONS
 BAYVIEW DRIVE

SHEET NUMBER

70



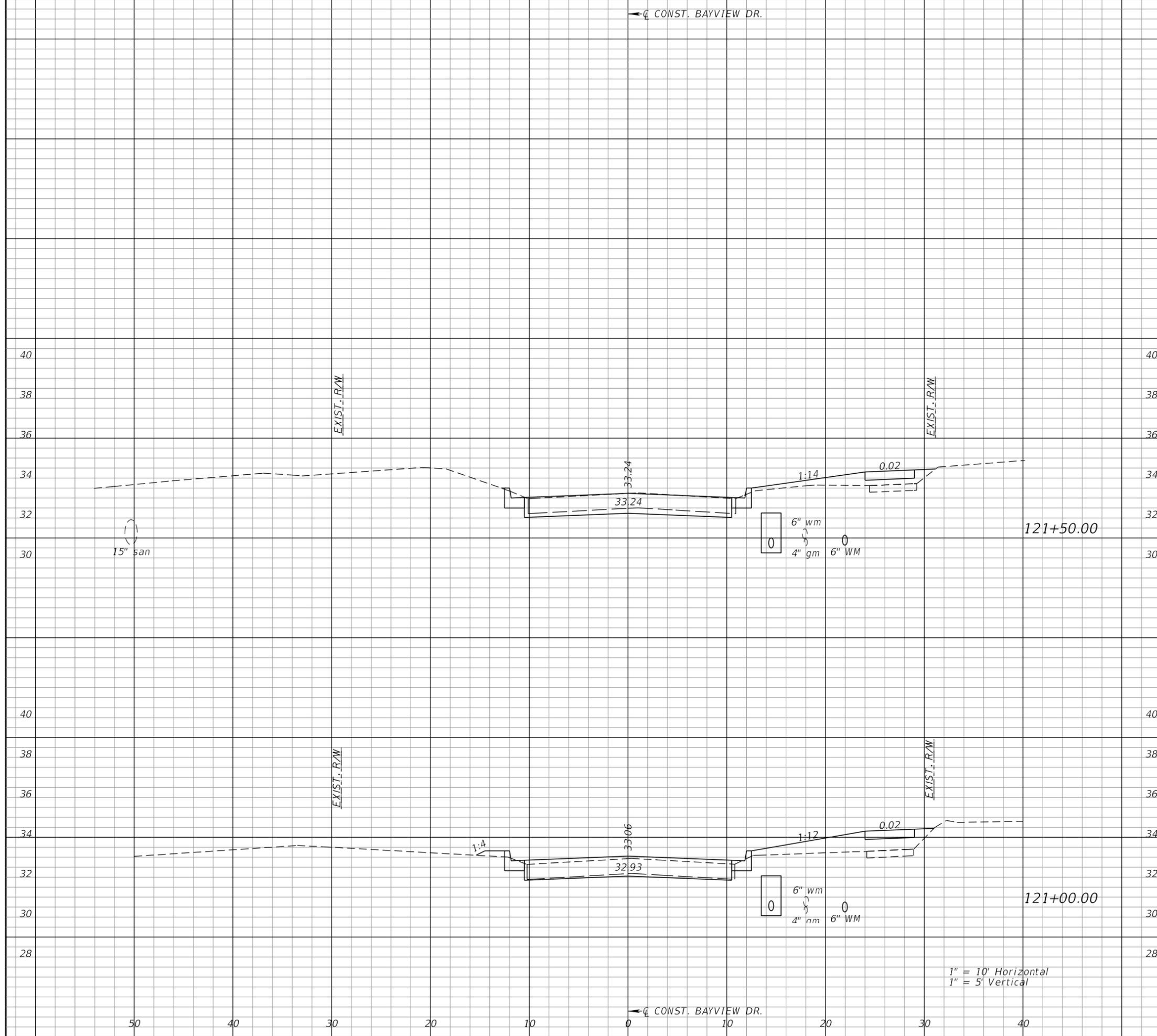
20	38	1	1
----	----	---	---

21	40	1	1
----	----	---	---

1" = 10' Horizontal
 1" = 5' Vertical

← CONST. BAYVIEW DR.

50 40 30 20 10 0 10 20 30 40



Regular		Exc.		Embankment	
A	V	A	V	A	V
24		41		0	
20		37		1	



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SHEET TITLE
**CROSS SECTIONS
BAYVIEW DRIVE**

SHEET NUMBER
71

1" = 10' Horizontal
1" = 5' Vertical

← CONST. BAYVIEW DR.

Regular		Exc.		Embankment	
A	V	A	V	A	V



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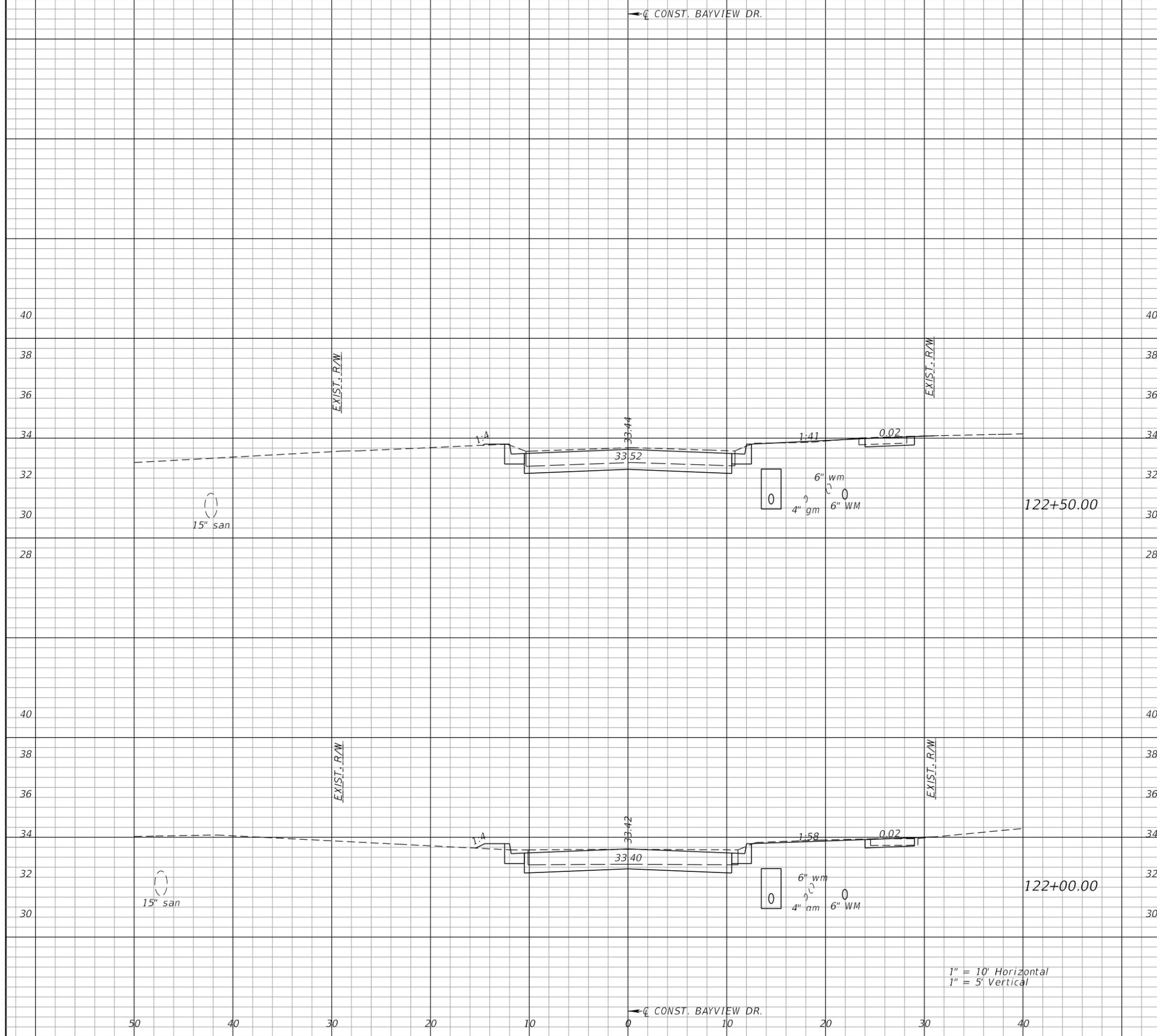
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SHEET TITLE

CROSS SECTIONS
 BAYVIEW DRIVE

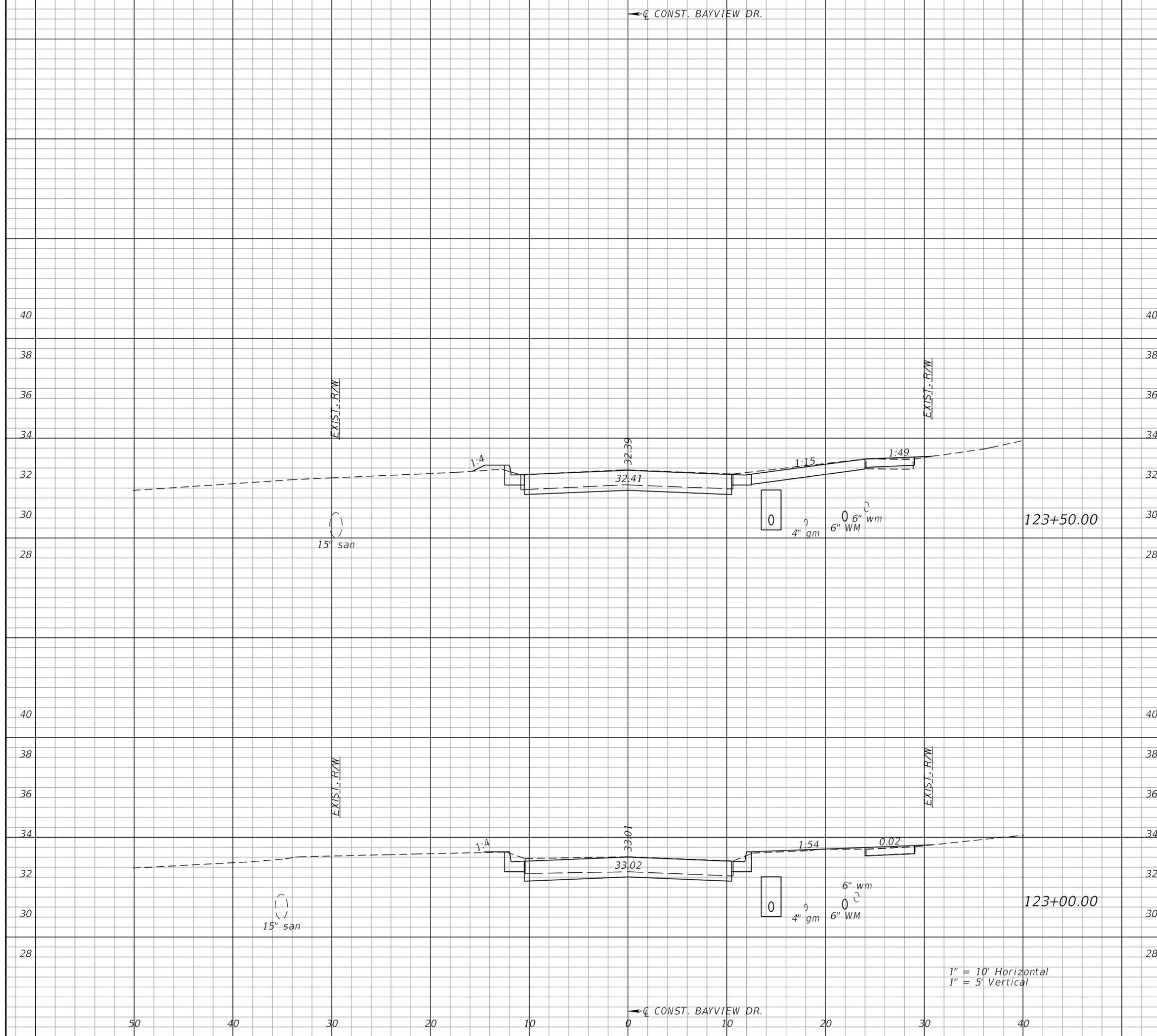
SHEET NUMBER

72



← CONST. BAYVIEW DR.

1" = 10' Horizontal
 1" = 5' Vertical



Regular		Exc.		Embankment	
A	V	A	V	A	V
24	45	1	1	0	0



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SHEET TITLE
**CROSS SECTIONS
BAYVIEW DRIVE**

SHEET NUMBER
73

1" = 10' Horizontal
1" = 5' Vertical

← CONST. BAYVIEW DR.

Regular		Exc.		Embankment	
A	V	A	V	A	V



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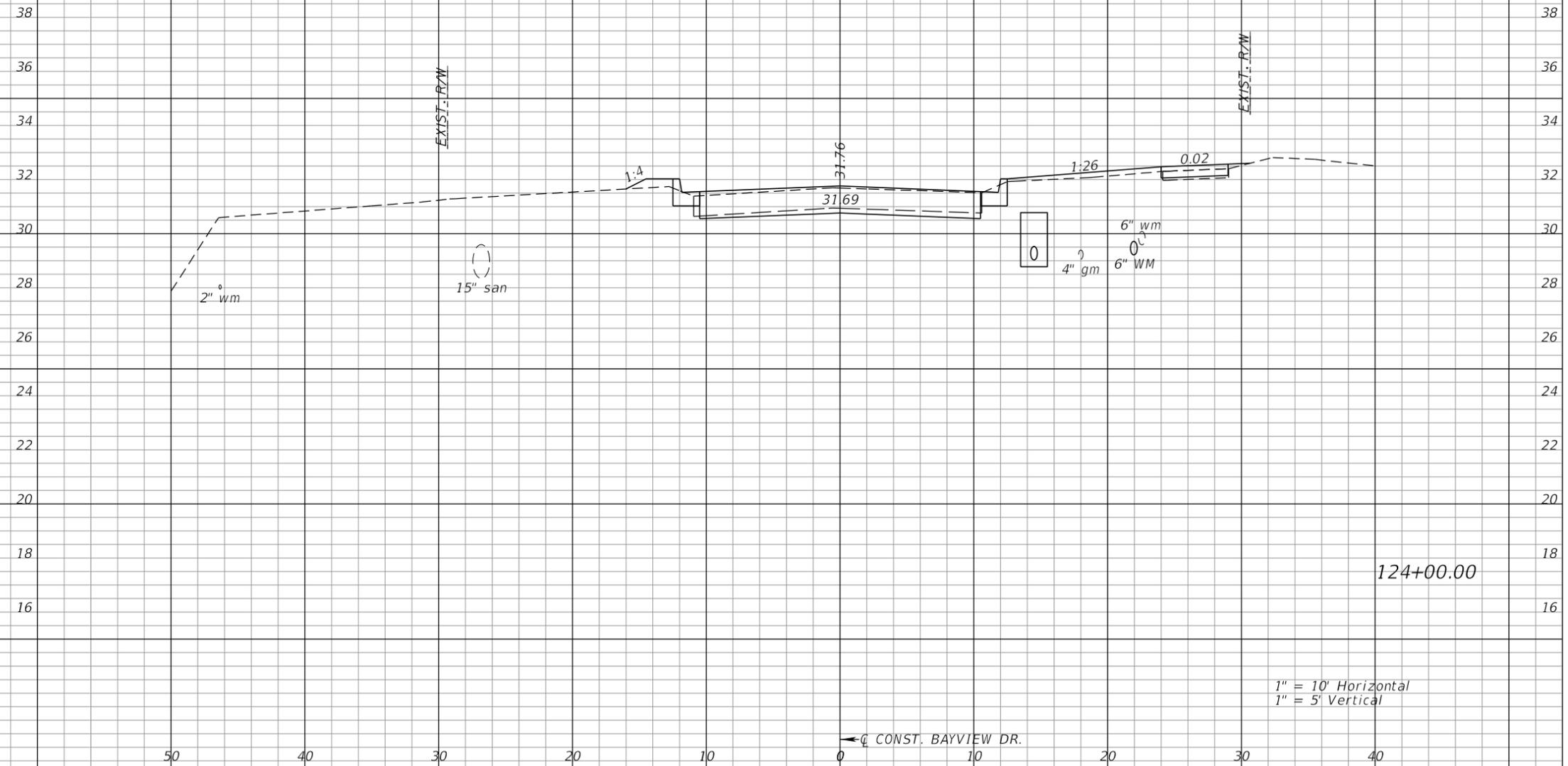
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SHEET TITLE

CROSS SECTIONS
 BAYVIEW DRIVE

SHEET NUMBER

74



1" = 10' Horizontal
 1" = 5' Vertical

← C CONST. BAYVIEW DR.

Regular		Exc.		Embankment	
A	V	A	V	A	V



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SHEET TITLE

CROSS SECTIONS
 BAYVIEW DRIVE

SHEET NUMBER

75



← C CONST. BAYVIEW DR.

1" = 10' Horizontal
 1" = 5' Vertical

50 40 30 20 10 0 10 20 30 40

← CONST. BAYVIEW DR.

BAYVIEW DRIVE
SUMMARY OF EARTHWORK

EMBANKMENT 99 CY
EXCAVATION 2162 CY

END PROJECT
END EARTHWORK
STA. 126+24.08

Regular		Exc.		Embankment	
A	V	A	V	A	V
0	11	0	0	0	0
24	41	1	2	1	1
20					



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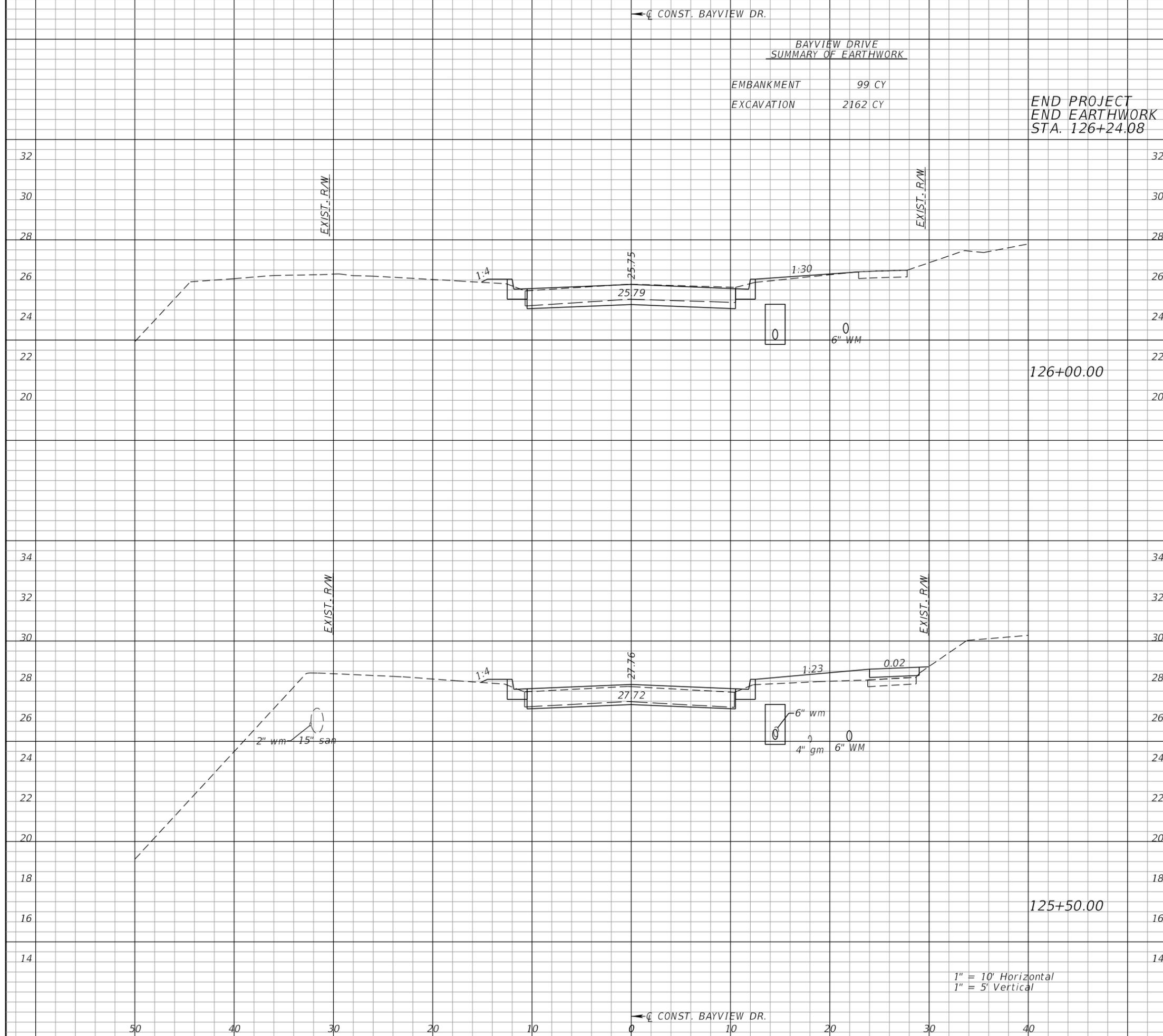
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SHEET TITLE

CROSS SECTIONS
BAYVIEW DRIVE

SHEET NUMBER

77



1" = 10' Horizontal
1" = 5' Vertical

← CONST. ORLANDO RD.

Regular		Exc.		Embankment	
A	V	A	V	A	V



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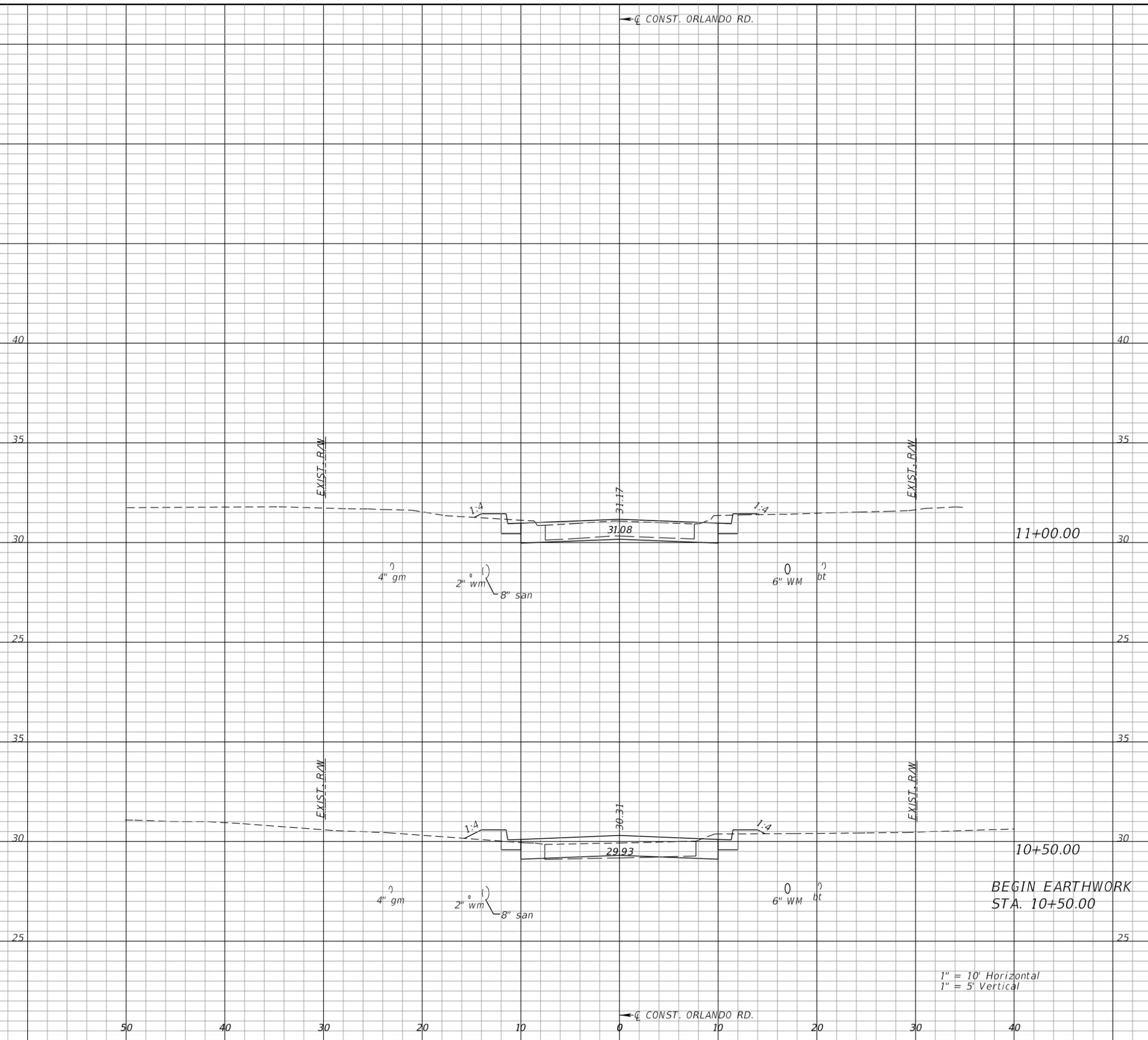
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 VERTICAL SCALE: _____
 AEP NO.: 104-2881-001

SHEET TITLE

CROSS SECTIONS
 ORLANDO ROAD

SHEET NUMBER

78



22
37
1
2

18
0
2
0

11+00.00

10+50.00

BEGIN EARTHWORK
 STA. 10+50.00

1" = 10' Horizontal
 1" = 5' Vertical

← CONST. ORLANDO RD.

← CONST. ORLANDO RD.

Regular		Exc.		Embankment	
A	V	A	V	A	V



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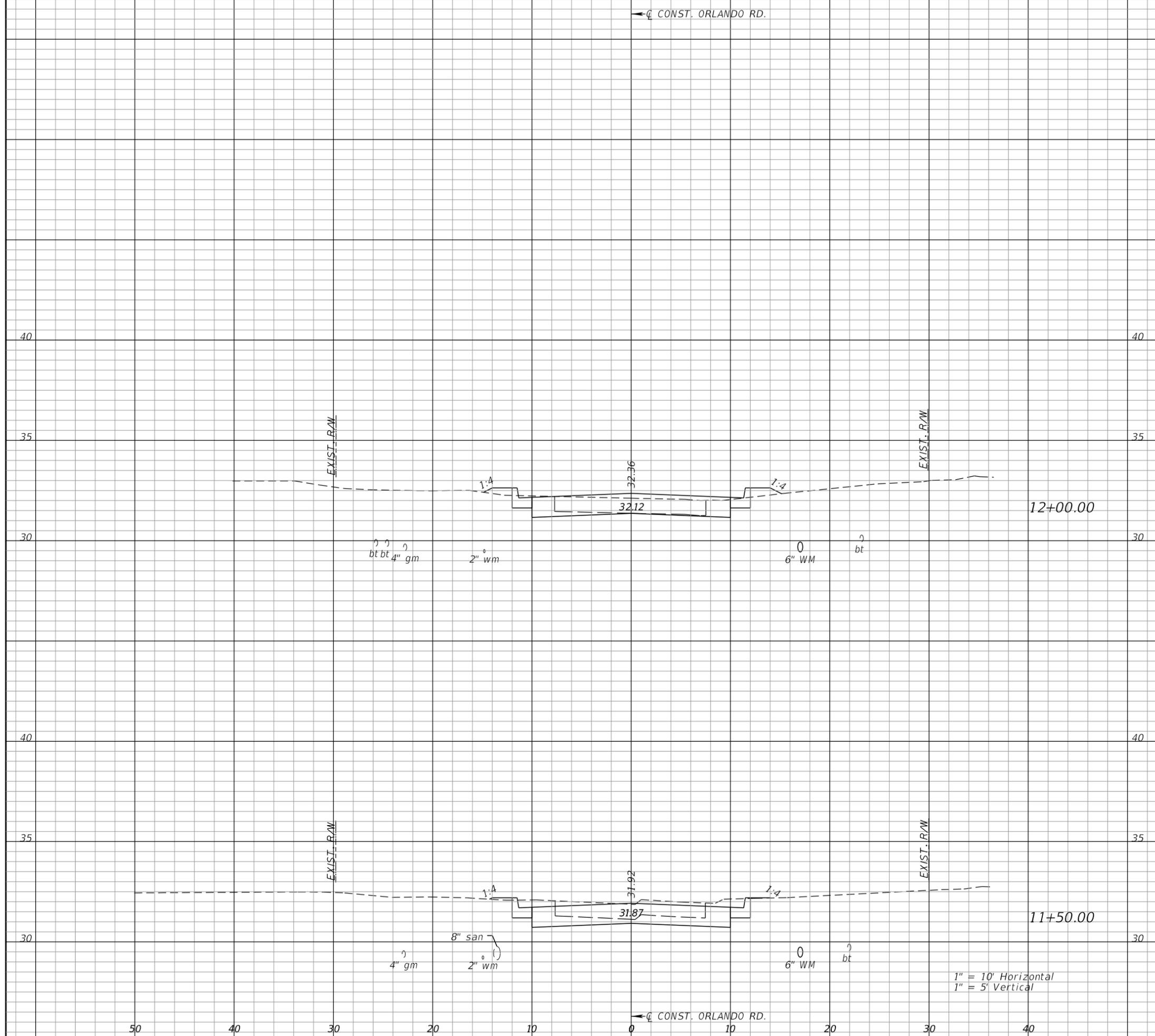
AEP NO.: 104-2881-001

SHEET TITLE

CROSS SECTIONS
 ORLANDO ROAD

SHEET NUMBER

79



19

43

2

2

27

45

0

1

1" = 10' Horizontal
 1" = 5' Vertical

← CONST. ORLANDO RD.

← CONST. ORLANDO RD.

Regular		Exc.		Embankment	
A	V	A	V	A	V



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 DATE: _____

REVISIONS

NO.	DESCRIPTION	DATE

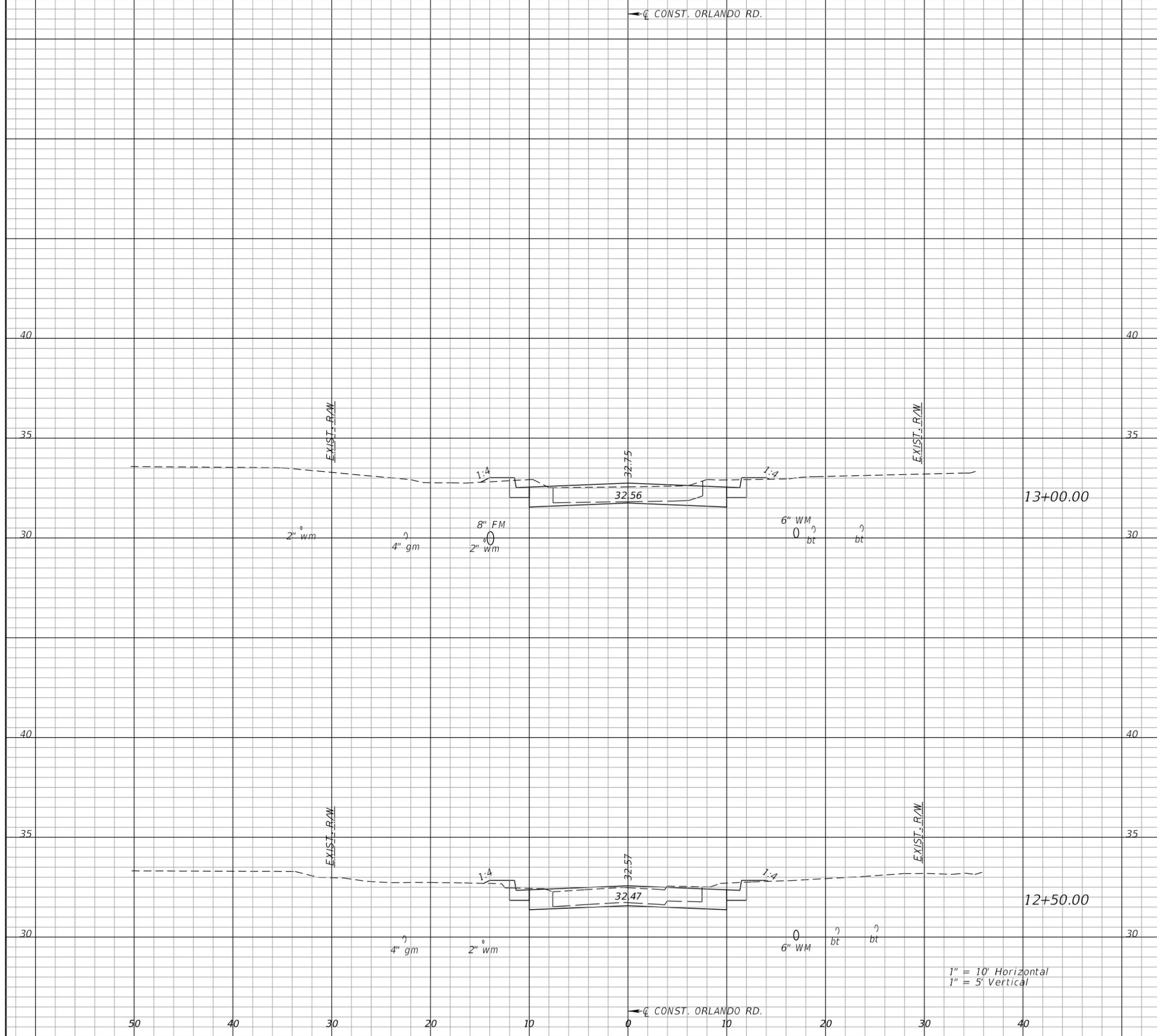
DATE ISSUED: _____
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 DRAWN BY: VES
 DESIGNED BY: VES
 HORIZONTAL SCALE: _____
 VERTICAL SCALE: _____
 AEP NO.: 104-2881-001

SHEET TITLE

**CROSS SECTIONS
 ORLANDO ROAD**

SHEET NUMBER

80



← CONST. ORLANDO RD.

← CONST. ORLANDO RD.

ORLANDO ROAD
SUMMARY OF EARTHWORK

EMBANKMENT 9 CY
EXCAVATION 330 CY

Regular Exc.		Embankment	
A	V	A	V



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**BAYVIEW DRIVE
STREET AND DRAINAGE
IMPROVEMENTS**

SUB-CONSULTANTS

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3802 Ehrlich Road, Suite 306
Tampa, Florida 33624
(813)549-3740

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HORIZONTAL SCALE:

VERTICAL SCALE:

AEP NO.: 104-2881-001

SHEET TITLE

CROSS SECTIONS
ORLANDO ROAD

SHEET NUMBER

81

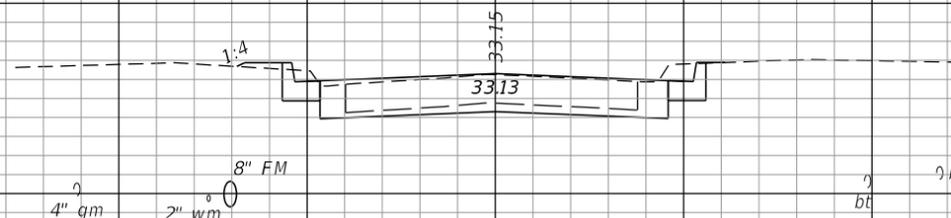
END EARTHWORK
STA. 14+10.00

14+00.00

0 4 0 0

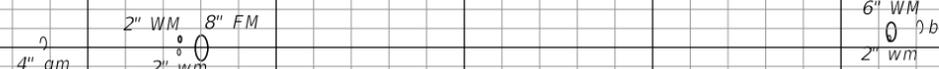
21 59 0 0

43 61 0 1



PALMETTO RD.

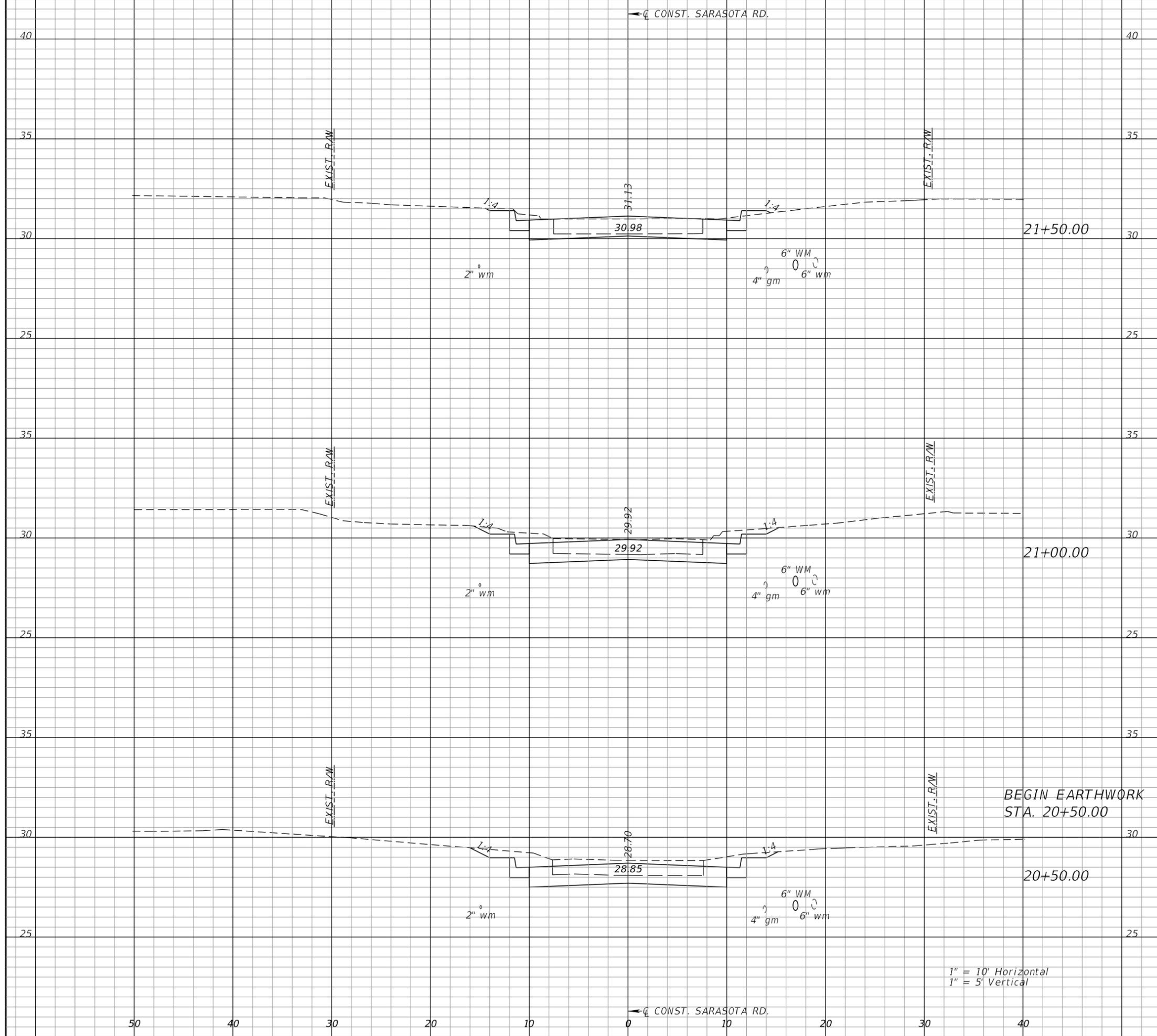
13+50.00



1" = 10' Horizontal
1" = 5' Vertical

← CONST. ORLANDO RD.

50 40 30 20 10 0 10 20 30 40



Station	Regular Exc.		Embankment	
	A	V	A	V
21+50.00	22	45	1	1
21+00.00	28	53	0	0
20+50.00	30	0	0	0



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 AEP NO.: 104-2881-001

SHEET TITLE

**CROSS SECTIONS
SARASOTA ROAD**

SHEET NUMBER

82

1" = 10' Horizontal
1" = 5' Vertical

← CONST. SARASOTA RD.

Regular		Exc.		Embankment	
A	V	A	V	A	V



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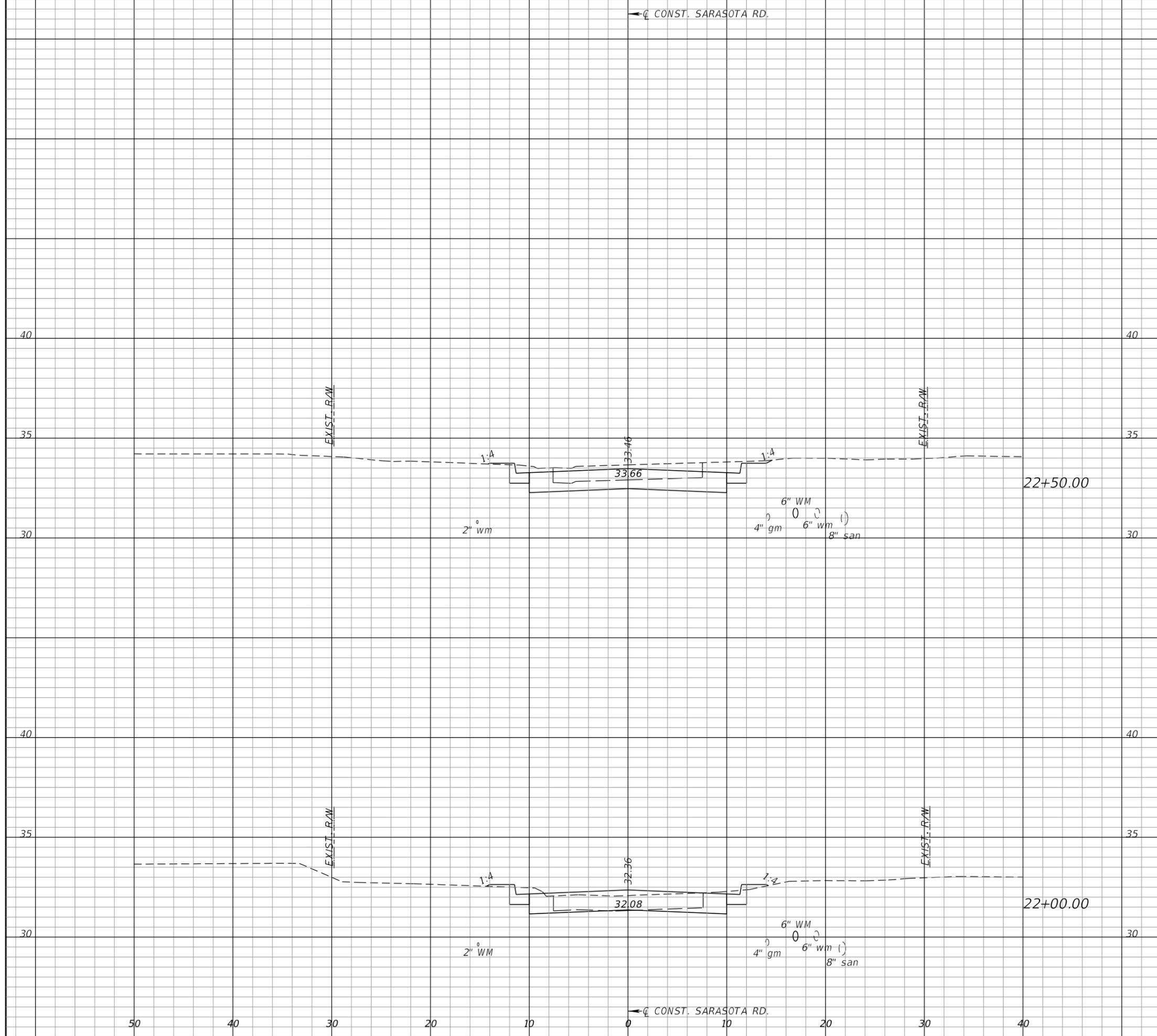
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 HORIZONTAL SCALE:
 VERTICAL SCALE:
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SHEET TITLE

CROSS SECTIONS
 SARASOTA ROAD

SHEET NUMBER

83



30
 47
 0
 1

21
 39
 1
 1

← CONST. SARASOTA RD.

← CONST. SARASOTA RD.

SARASOTA ROAD
SUMMARY OF EARTHWORK

EMBANKMENT 3 CY
EXCAVATION 353 CY

Regular Exc. Embankment
A V A V



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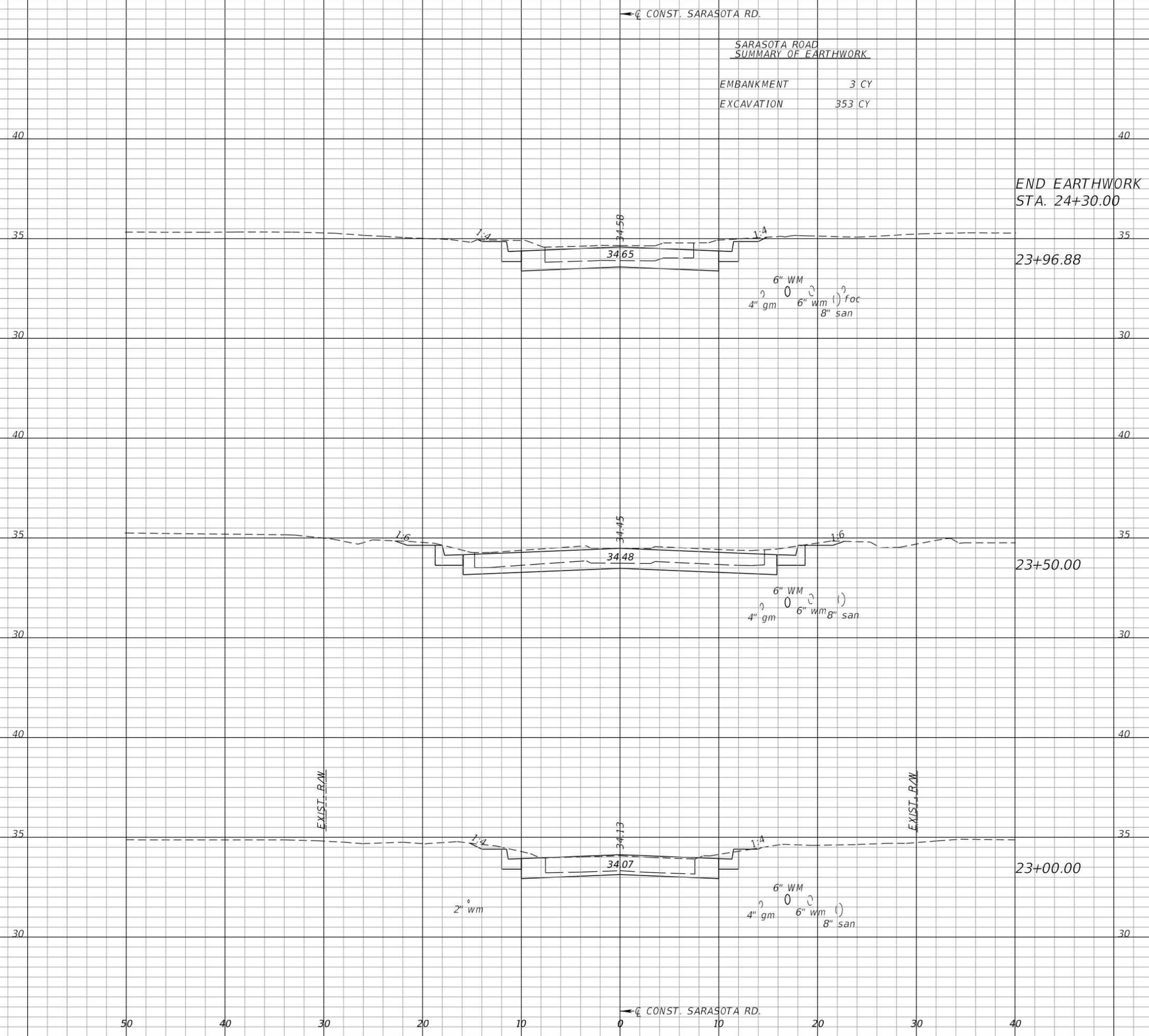
DATE ISSUED:
REVIEWED BY: BWB
DRAWN BY: VES
DESIGNED BY: VES
HORIZONTAL SCALE:
VERTICAL SCALE:
AEP NO.: 104-2881-001

SHEET TITLE

CROSS SECTIONS
SARASOTA ROAD

SHEET NUMBER

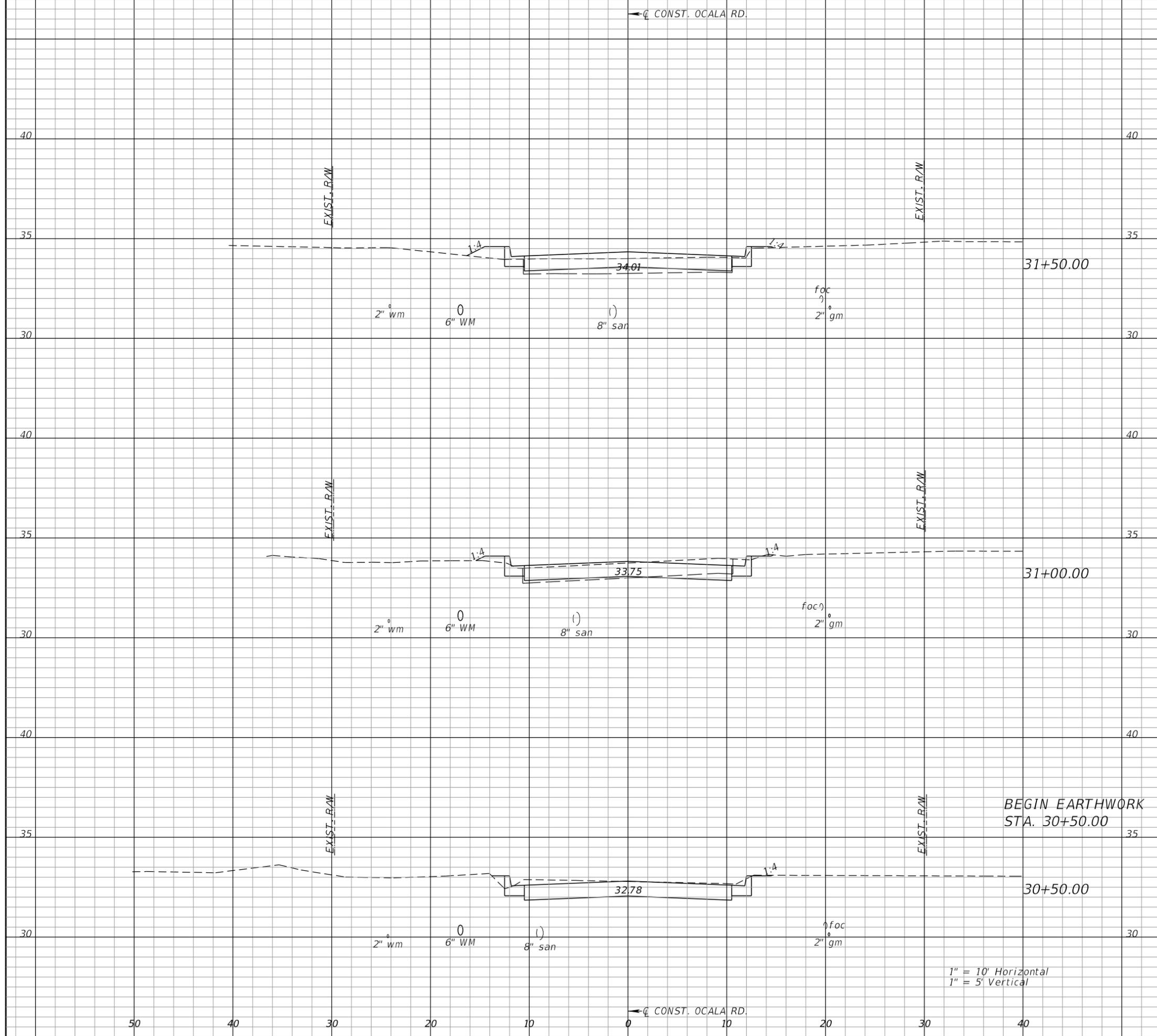
84



Station	Regular Exc. A	Regular Exc. V	Embankment A	Embankment V
23+96.88	27	60	0	0
23+50.00	42	60	0	0
23+00.00	23	49	0	0

← CONST. SARASOTA RD.

50 40 30 20 10 0 10 20 30 40



Station	Regular		Exc.		Embankment	
	A	V	A	V	A	V
31+50.00	13	29	2	3		
31+00.00	19	36	1	1		
30+50.00	20	0	0	0		

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HORIZONTAL SCALE: _____

VERTICAL SCALE: _____

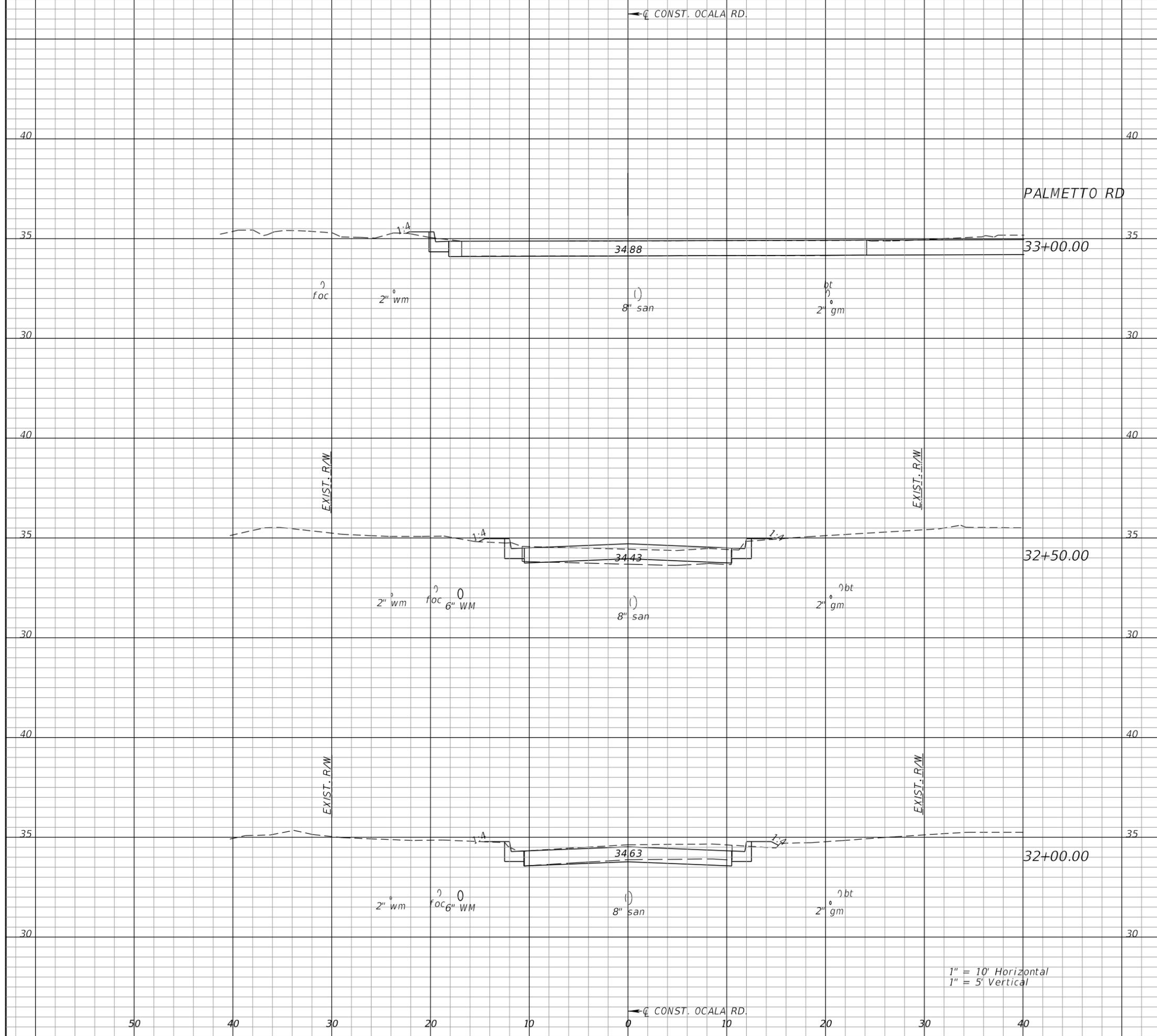
AEP NO.: 104-2881-001

SHEET TITLE

CROSS SECTIONS
OCALA ROAD

SHEET NUMBER

85



Regular		Exc.		Embankment	
A	V	A	V	A	V
62	72	0	1		
16	34	1	1		
22	32	1	3		



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HORIZONTAL SCALE: _____
VERTICAL SCALE: _____
AEP NO.: 104-2881-001

SHEET TITLE
**CROSS SECTIONS
OCALA ROAD**

SHEET NUMBER
86

1" = 10' Horizontal
1" = 5' Vertical

← CONST. OCALA RD. 50 40 30 20 10 0 10 20 30 40

← C CONST. OCALA RD.

OCALA ROAD
SUMMARY OF EARTHWORK
EMBANKMENT 10 CY
EXCAVATION 270 CY

Regular Exc. Embankment
A V A V



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DESIGNED BY: VES

HORIZONTAL SCALE:

VERTICAL SCALE:

AEP NO.: 104-2881-001

SHEET TITLE

CROSS SECTIONS
OCALA ROAD

SHEET NUMBER

87

40

40

END EARTHWORK
STA. 33+47.47

35

35

1:4

1:4

34.75

33+47.47

14

67

1

1

30

30

8" san

2" wm

bt

1" = 10' Horizontal
1" = 5' Vertical

← C CONST. OCALA RD.

50

40

30

20

10

0

10

20

30

40



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VERTICAL SCALE:

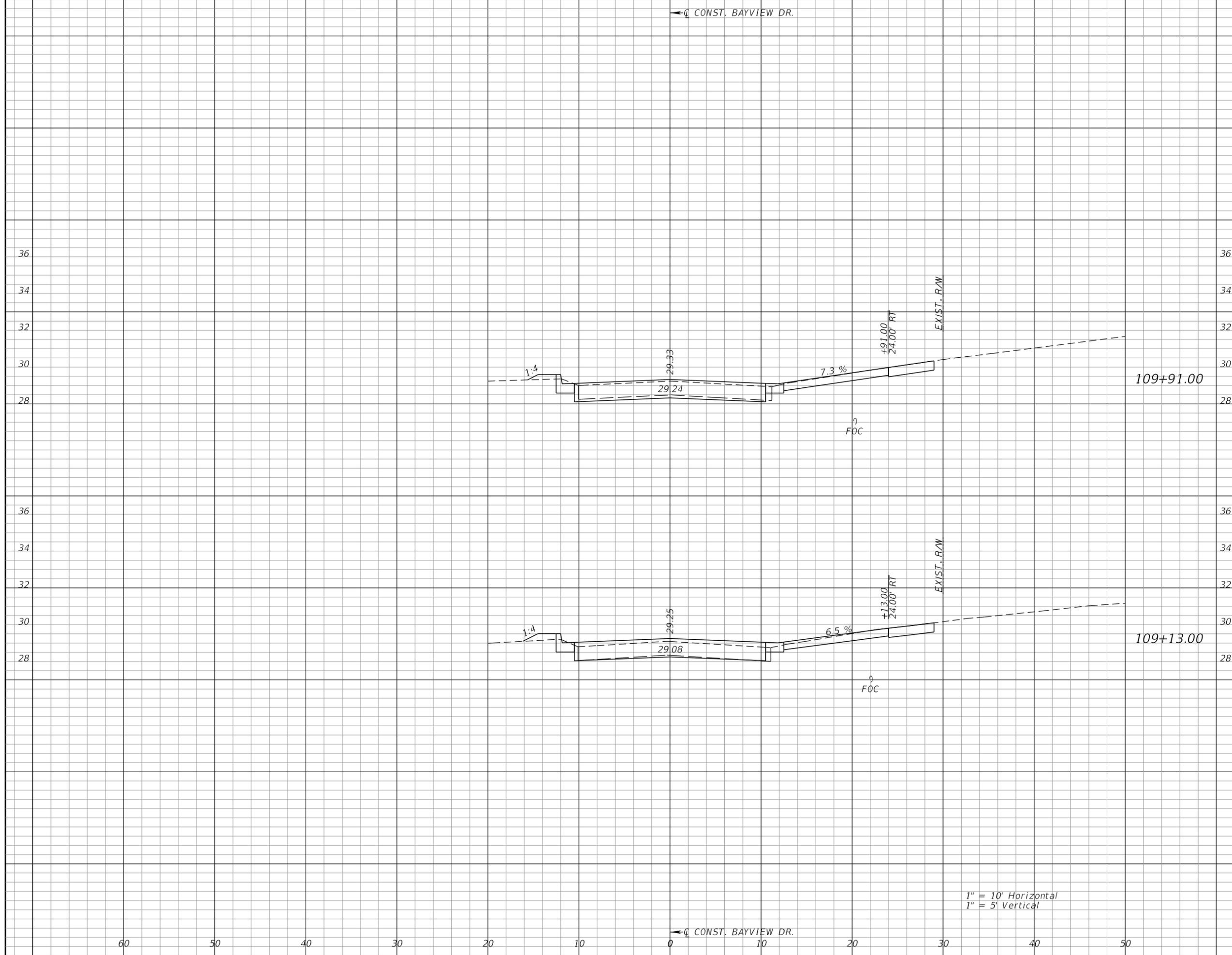
AEP NO.: 104-2881-001

SHEET TITLE

**DRIVEWAY HALF SECTIONS
 BAYVIEW DRIVE**

SHEET NUMBER

88



1" = 10' Horizontal
 1" = 5' Vertical



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HORIZONTAL SCALE:

VERTICAL SCALE:

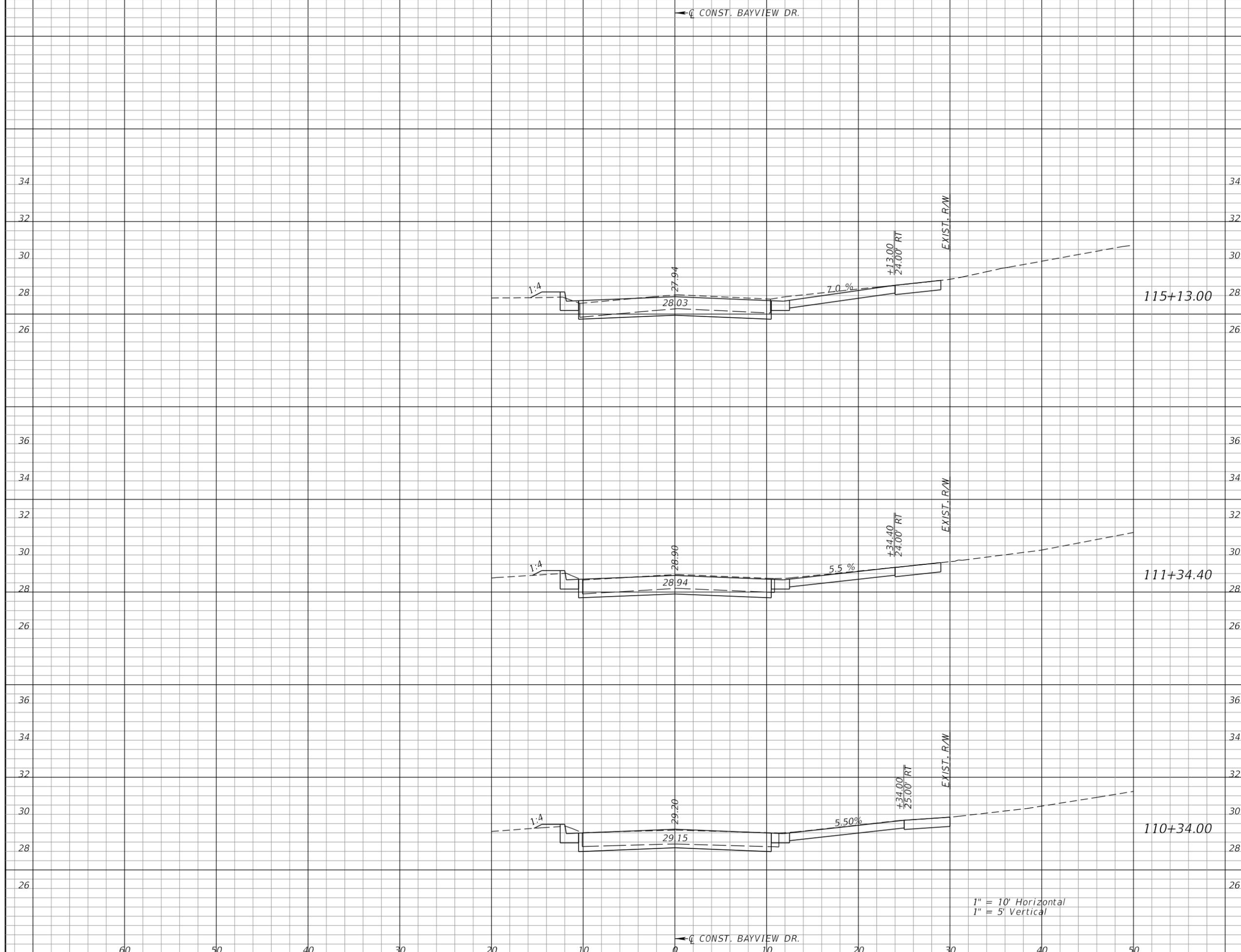
AEP NO.: 104-2881-001

SHEET TITLE

**DRIVEWAY HALF SECTIONS
BAYVIEW DRIVE**

SHEET NUMBER

89



1" = 10' Horizontal
1" = 5' Vertical

60 50 40 30 20 10 0 10 20 30 40 50



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HORIZONTAL SCALE: _____

VERTICAL SCALE: _____

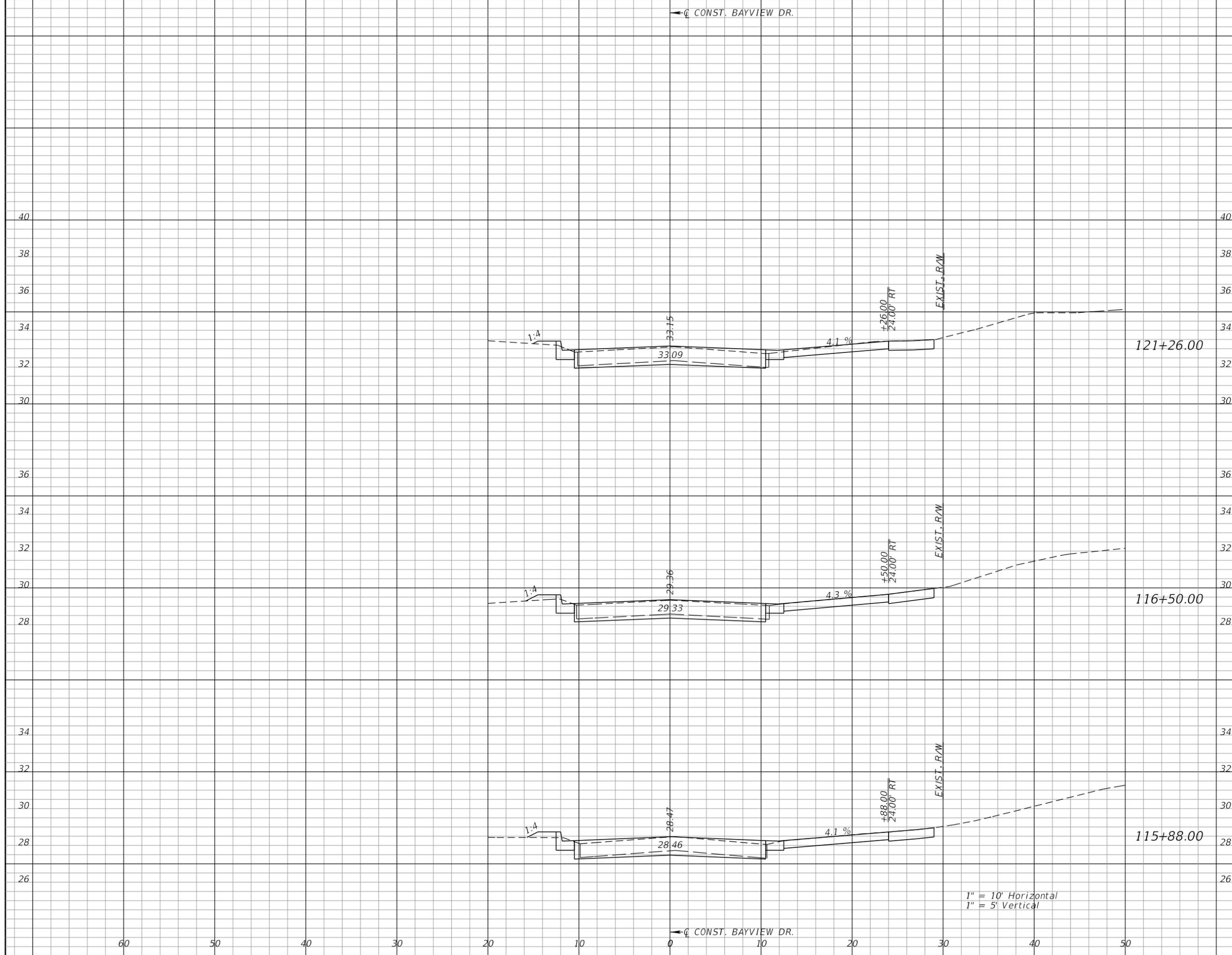
AEP NO.: 104-2881-001

SHEET TITLE

**DRIVEWAY HALF SECTIONS
 BAYVIEW DRIVE**

SHEET NUMBER

90



← C CONST. BAYVIEW DR.

← C CONST. BAYVIEW DR.

1" = 10' Horizontal
 1" = 5' Vertical

60 50 40 30 20 10 0 10 20 30 40 50



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VERTICAL SCALE: _____

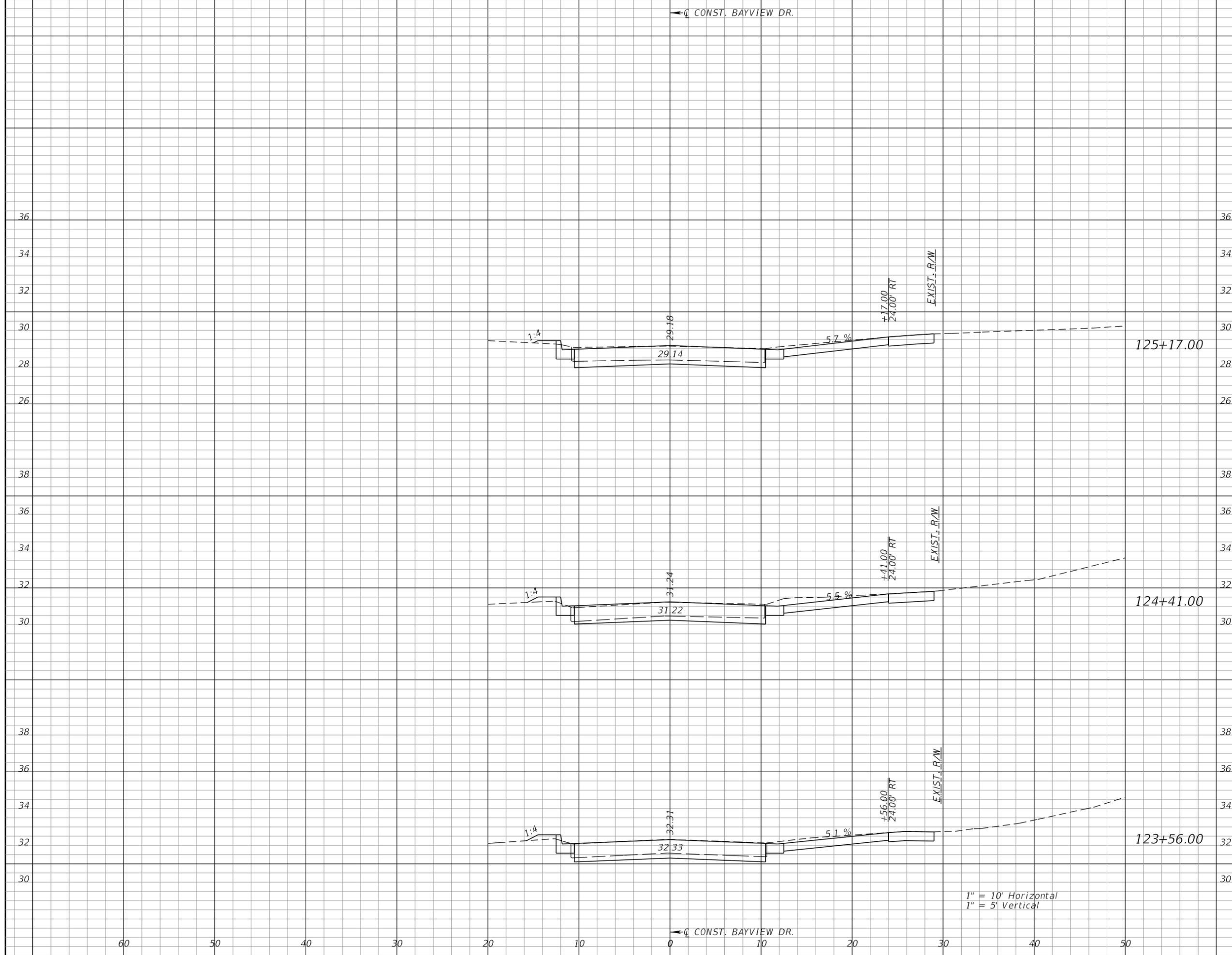
AEP NO.: 104-2881-001

SHEET TITLE

**DRIVEWAY HALF SECTIONS
 BAYVIEW DRIVE**

SHEET NUMBER

91



1" = 10' Horizontal
 1" = 5' Vertical

← Q CONST. ORLANDO RD.



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VERTICAL SCALE:

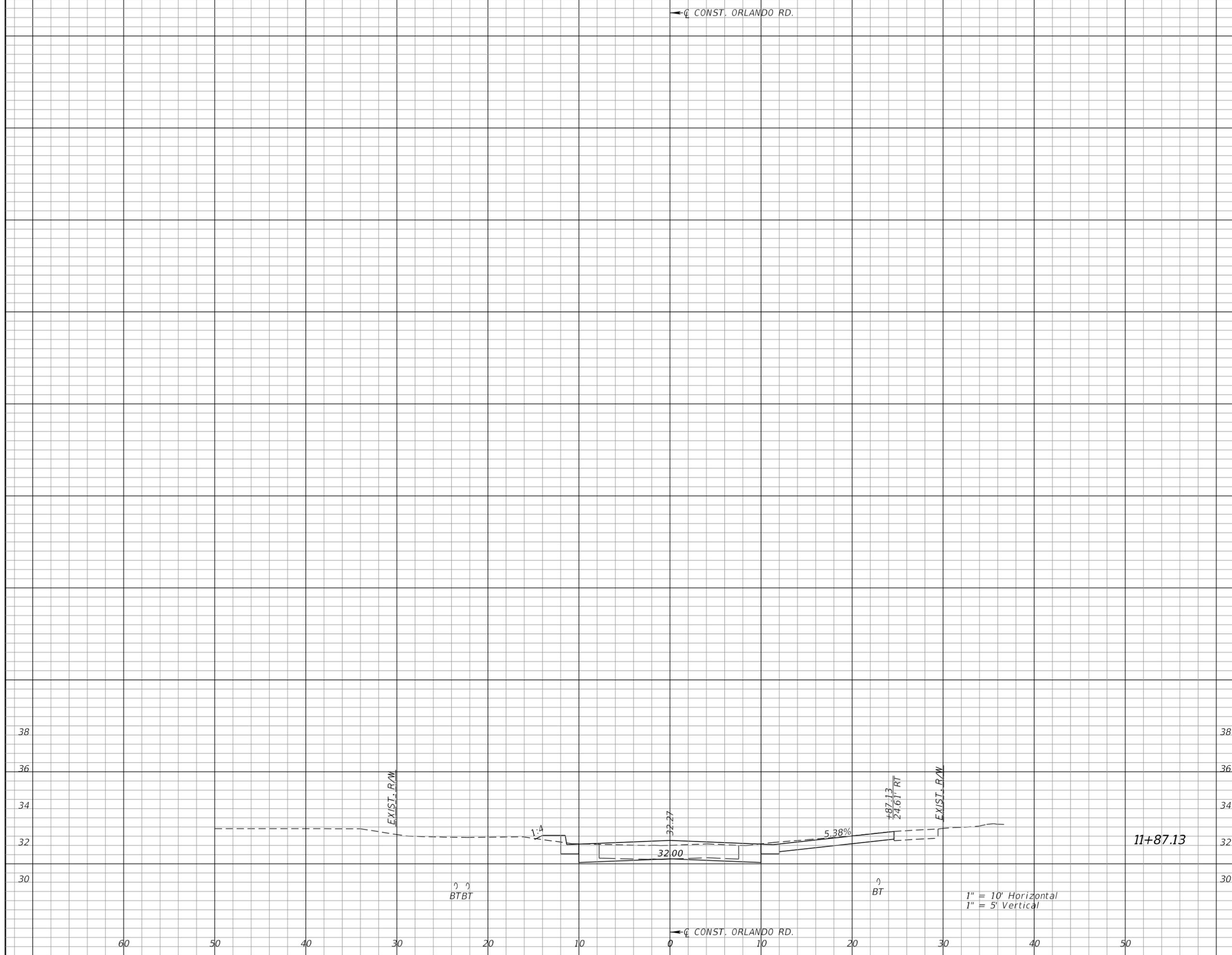
AEP NO.: 104-2881-001

SHEET TITLE

**DRIVEWAY HALF-SECTIONS
ORLANDO ROAD**

SHEET NUMBER

92



← Q CONST. ORLANDO RD.

1" = 10' Horizontal
1" = 5' Vertical



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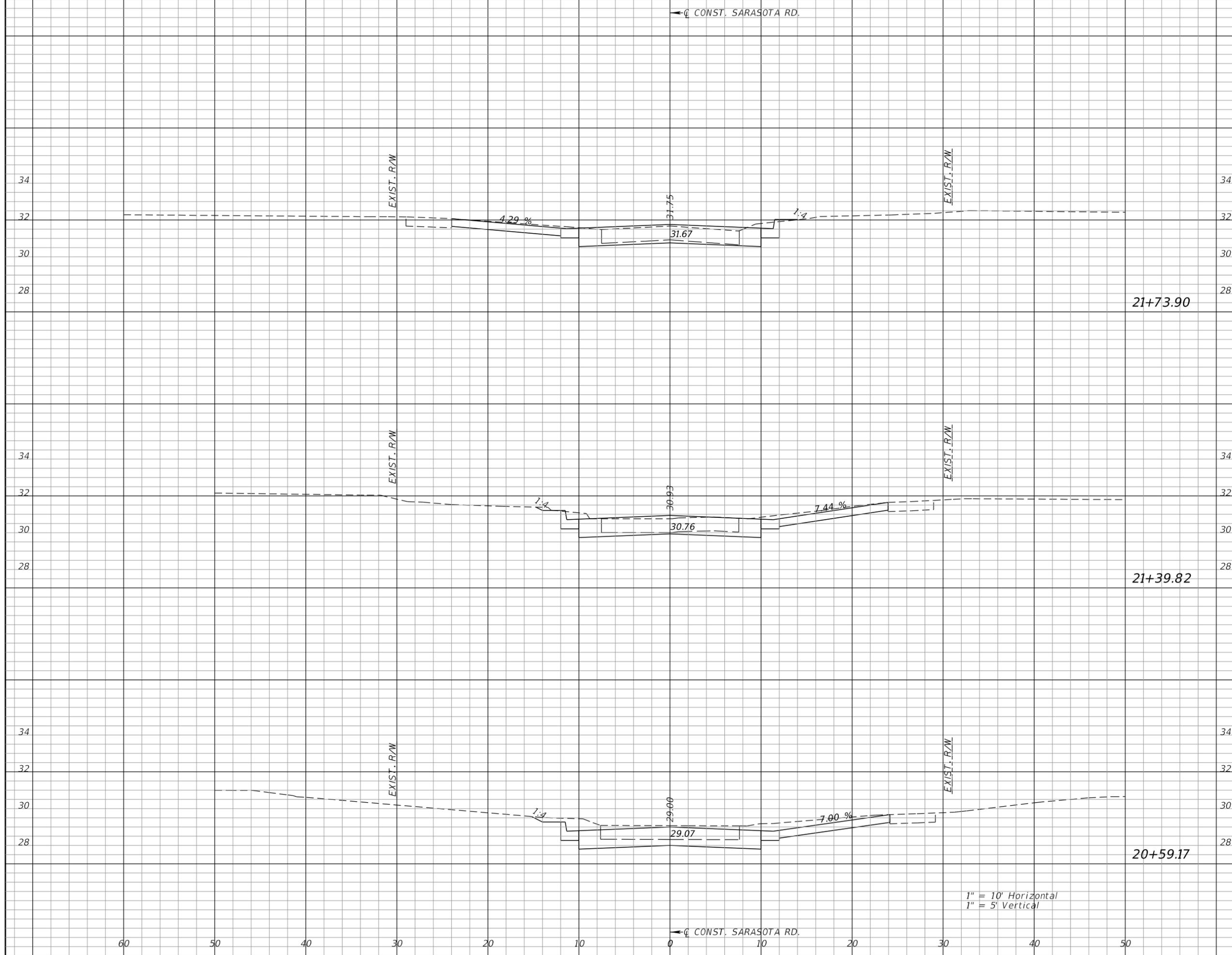
AEP NO.: 104-2881-001

SHEET TITLE

**DRIVEWAY HALF-SECTIONS
SARASOTA ROAD**

SHEET NUMBER

93



1" = 10' Horizontal
1" = 5' Vertical

← CONST. SARASOTA RD.



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VERTICAL SCALE:

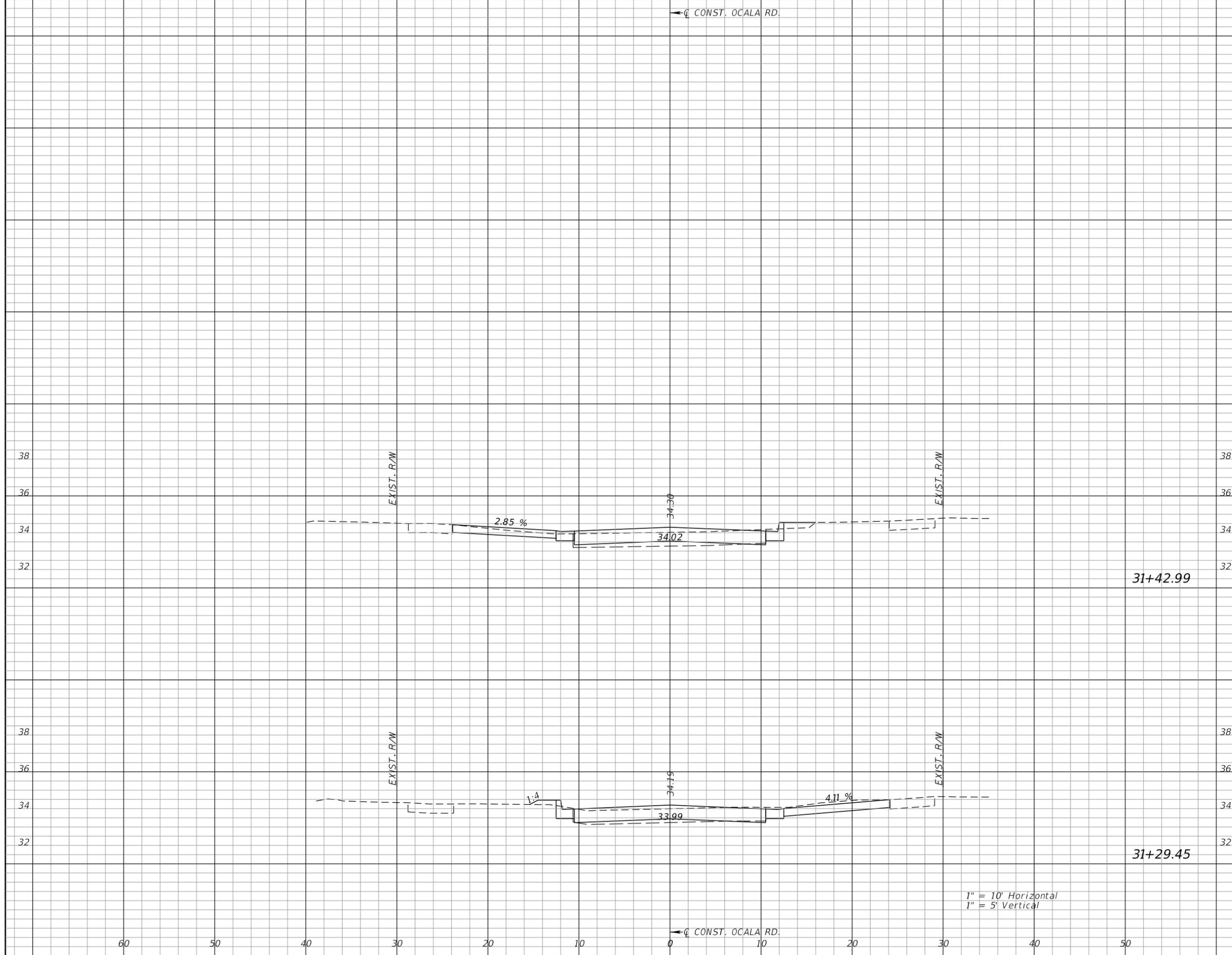
AEP NO.: 104-2881-001

SHEET TITLE

DRIVEWAY HALF-SECTIONS
 OCALA ROAD

SHEET NUMBER

94



1" = 10' Horizontal
 1" = 5' Vertical

31+42.99

31+29.45

← CONST. OCALA RD.

← CONST. OCALA RD.

The following narrative of the Storm water Pollution Prevention Plan contains references to the Standard Specifications for Road and Bridge Construction, the Design Standards, and other sheets of these construction plans. The first sheet of the construction plans (called the Key sheet) contains an index to the other sheets. The complete Storm water Pollution Prevention Plan includes several items: this narrative description, the documents referenced in this narrative, the contractor's approved Erosion Control Plan required by Specification Section 104, and reports of inspections made during construction.

1.0 SITE DESCRIPTION

1.a Nature of Construction Activities

This project, located in Pinellas County, reconstruct Bayview Drive to the north from Manatee Road to a location approximately 770 LF north of the intersection of Bayview Drive and Ocala Road.

1.b Sequence of Major Soil Disturbing Activities

Per FDOT Specification Section 104 Erosion Control Plan, the contractor shall be required to prepare a site specific Erosion Control Plan along with a Detailed Construction Schedule to indicate dates of major grading activities and determine sequences of temporary and permanent soil disturbing activities on all portions of the project. The contractor will be required to modify the plan or materials to adapt to seasonal variations, construction activity variations, or as directed by the engineer. Applicable erosion control devices and implementation procedures are supplied in the State of Florida Erosion and Sediment Control Designer and Reviewer Manual dated June 2007. The engineer is responsible for determining if any modifications or additional controls are required and to obtain deployment schedules for the implementation of all additional erosion control devices from the contractor.

1.c General Notes

- (a) All erosion control devices for each phase of work are to be installed prior to beginning work on that phase.
- (b) Install staked silt fence where listed in the contractor's approved erosion control plan for perimeter controls before the land is disturbed.
- (c) Provide synthetic bales where listed in the contractor's approved erosion control plan for ditch blocks during construction.
- (d) Provide inlet protection at inlet openings.
- (e) Cover or stabilize disturbed areas as soon as possible.
- (f) Do no disturb an area until it is necessary for construction to proceed.
- (g) Time construction activities to limit impact from seasonal climate changes or weather events.
- (h) Do no remove perimeter controls until after all upstream areas are fully stabilized and permanent grassing is established.
- (i) It is the contractors responsibility to obtain any dewatering permits necessary from all relevant regulatory agencies.

1.d Area Estimates

Total Site Area: 5.0 acres.
Total Area to be disturbed: 5.0 acres.

1.e Runoff Data

Runoff Coefficients:
Before: 0.50
After: 0.50

Soils Data: Soil types encountered along the project corridor are predominantly comprised of Myakka soils and Urban Land. Both soil types are categorized in the hydrologic group "A/D" and both are poorly drained due to the presence of silty material.

1.f Site Map

The construction plans will substitute as site maps. Locations of the required information are described below. The sheet numbers for all items discussed are identified on the Key Sheet of the construction plans.

- * Drainage Patterns: The flow directions are shown on the drainage maps and profiles provided in the construction plans.
- * Approximate Slopes: The slopes of the site can be seen on the plan and profile sheets and cross sections of the construction plans.
- * Areas of Soil Disturbance: The areas to be disturbed are indicated on the plan and profile sheets and cross sections. Any areas where permanent features are shown to be constructed above or below ground will be disturbed.
- * Areas Not to be Disturbed: For the purpose of this plan, it is reasonable to say that all areas of the project will be disturbed during some phase of construction.
- * Locations of Temporary Controls: Locations of temporary controls (i.e., erosion control devices) are shown on the plan sheets included with the construction plans.

* Areas to be Stabilized: Areas of permanent stabilization are shown on the typical sections and the plan and profile sheets.

* Discharge Points to Surface Waters: Pinellas Intercoastal Waterway.

1.g Receiving Waters

This project is located within the jurisdiction of the Southwest Florida Water Management District. Onsite stormwater runoff will discharge into Clearwater Harbor.

2.0 CONTROLS

2.a Erosion and Sediment Controls

In the Section 104 Erosion Control Plan, the contractor shall describe the proposed stabilization and structural practices based on the contractor's proposed Traffic Control Plan. The following recommended guidelines are based on the Traffic Control notes included in the construction plans. Where following the Traffic Control Plan (TCP) notes outlined in these construction plans, the contractor may chose to accept the following guidelines or modify them in the Section 104 Erosion Control Plan, subject to approval of the engineer.

The contractor will be responsible for providing TCP along with Erosion and Sediment Control plans to Southwest Florida Water Management District.

2.a.1 Stabilization Practices

In the Section 104 Erosion Control Plan, the contractor shall describe the stabilization practices proposed to control erosion. The contractor shall initiate all stabilization measures as soon as practical, but in no case more than 7 days, in portions of the site where construction activities have temporarily or permanently ceased. The stabilization practices shall include at least the following, unless otherwise approved by the Engineer.

Temporary:

* Seed and mulch, and sod in accordance with Specification Section 104.

Permanent:

* Asphalt or concrete surface.
* Sod in accordance with Specification Section 104.

2.a.2 Structural Practices

In the Section 104 Erosion Control Plan, the contractor shall describe the proposed structural practices to control or trap sediments and otherwise prevent the discharge of pollutants from exposed areas of the site. Sediment controls shall be in place before disturbing soil upstream of the control. The structural practices shall include at least the following, unless otherwise approved by the Engineer.

Temporary:

* Sediment Barriers in accordance with Specification Section 104 and as shown on the Traffic Control Plans.

* Floating Turbidity Barrier in accordance with specifications 104 and as shown in the Traffic Control Plans.

* Inlet protection in accordance with Specification 104 and as shown in the traffic control plans. All sediment controls shall be in place prior to any soil disturbing activity upstream of the control.

Permanent:

* Sod



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**BAYVIEW DRIVE
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IMPROVEMENTS**

SUB-CONSULTANTS

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Tampa, Florida 33624
(813)549-3740

APPROVED BY:

ROBERT M. GARRIGUES, P.E.
FLA. REG. NO. 47652
DATE: _____

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:

REVIEWED BY: RMG

DRAWN BY: DJ

DESIGNED BY: DJ

HORIZONTAL SCALE:

VERTICAL SCALE:

AEP NO.: 104-2881-001

SHEET TITLE

**STORMWATER POLLUTION
PREVENTION PLAN (1)**

SHEET NUMBER

95

2.b Stormwater Management

Stormwater will be conveyed in closed collection systems.

2.c Other Controls

2.c.1 Waste Disposal

In the Section 104 Erosion Control Plan, the contractor shall describe the proposed methods to prevent the discharge of solid material, including building materials, to waters of the United States. The proposed methods shall include at least the following, unless otherwise approved by the Engineer.

- * Providing liter control and collection within the project during construction activities.
- * Disposing of all fertilizer or other chemical containers according to EPA's standard practices as detailed by the manufacturer.
- * Disposing of solid materials including building and construction materials off the project site but not in surface waters.

2.c.2 Offsite Vehicle Tracking

In the Section 104 Erosion Control Plan, the contractor shall describe the proposed methods for minimizing offsite vehicle tracking of sediments and generating dust. The proposed methods shall include at least the following, unless otherwise approved by the Engineer.

- * Soil tracking prevention devices will be installed at all locations where construction vehicles will be carrying soil away from the project site.
- * Construction vehicles will be required to cover their loads to minimize loss of load into the air.

2.c.3 State and Local Regulations for Waste Disposal, Sanitary Sewer or Septic Tank Regulations

In the Section 104 Erosion Control Plan, the contractor shall describe the proposed procedures to comply with applicable state and local regulations for waste disposal, and sanitary sewer or septic systems.

2.c.4 Fertilizers and Pesticides

Fertilizer will be applied according to applicable subsections of Section 570 of the FDOT Standard Specifications for Road and Bridge Construction. The contractor is solely responsible for documenting the use of pesticides in the Section 104 Erosion Control Plan.

2.c.5 Toxic Substances

In the Section 104 Erosion Control Plan, the contractor shall provide a list of toxic substances that are likely to be used on the job and provide a plan addressing the generation, application, migration, storage, and disposal of these substances.

Erosion and turbidity control measures will be installed and maintained around work areas.

I HAVE REVIEWED AND AM AWARE OF THE INFORMATION INCLUDED ON THIS STORMWATER POLLUTION PREVENTION PLAN AND THE ASSOCIATED EROSION AND SEDIMENT CONTROL SHEETS. IT WILL BE MY RESPONSIBILITY TO ENSURE THAT THESE MEASURES ARE MAINTAINED THROUGHOUT THE PROJECT.

KEITH BODEKER, TOWN PROJECT MANAGER

Date

2.d.4 Approved State and Local Plans or Permits

This project is under the jurisdiction of the Southwest Florida Water Management District.

3.0 MAINTENANCE

In the Section 104 Erosion Control Plan, the contractor shall provide a plan for maintaining all erosion and sediments controls throughout construction. The maintenance plan shall at a minimum, comply with specification Section 104.

4.0 INSPECTIONS

Qualified personnel, who are certified through DEP Stormwater, Erosion and Sedimentation Control Inspector training program, shall inspect the following items at least once every seven calendar days and within 24 hours of the end of a storm that is 0.50 inches or greater. To comply, the contractor shall install and maintain rain gages and record the daily rainfall. Where sites have been permanently stabilized, inspections shall be conducted at least once every month. The contractor shall also inspect that controls installed in the field agree with the latest Stormwater Pollution Prevention Plan.

- * Points of discharge to waters of the United States.
- * Points of discharge to municipal separate storm sewer systems.
- * Disturbed areas of the site that have not been finally stabilized.
- * Areas used for storage of materials that are exposed to precipitation.
- * Structural controls.
- * Stormwater management systems.
- * Locations where vehicles enter or exit the site.

The contractor shall initiate repairs within 24 hours of inspections that indicate items are not in good working order.

If inspections indicate that the installed stabilization and structural practices are not sufficient to minimize erosion, retain sediments, and prevent discharging pollutants, the contractor shall provide additional measures, as approved by the Engineer.

5.0 NON-STORMWATER DISCHARGES

In the Section 104 Erosion Control Plan, the contractor shall identify all anticipated non-stormwater discharges (except flows from fire fighting activities). The contractor shall describe the proposed measures to prevent pollution of these non-stormwater discharges.



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IMPROVEMENTS**

SUB-CONSULTANTS

Mckim & Creed, Inc.
3802 Ehrlich Road, Suite 306
Tampa, Florida 33624
(813)549-3740

APPROVED BY:

ROBERT M. GARRIGUES, P.E.
FLA. REG. NO. 47652
DATE: _____

REVISIONS

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DATE ISSUED:

REVIEWED BY: RMG

DRAWN BY: DJ

DESIGNED BY: DJ

HORIZONTAL SCALE:

VERTICAL SCALE:

AEP NO.: 104-2881-001

SHEET TITLE

**STORMWATER POLLUTION
PREVENTION PLAN (2)**

SHEET NUMBER

96



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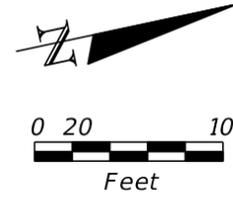
SHEET TITLE

**EROSION AND SEDIMENT
 CONTROL PLANS (1)**

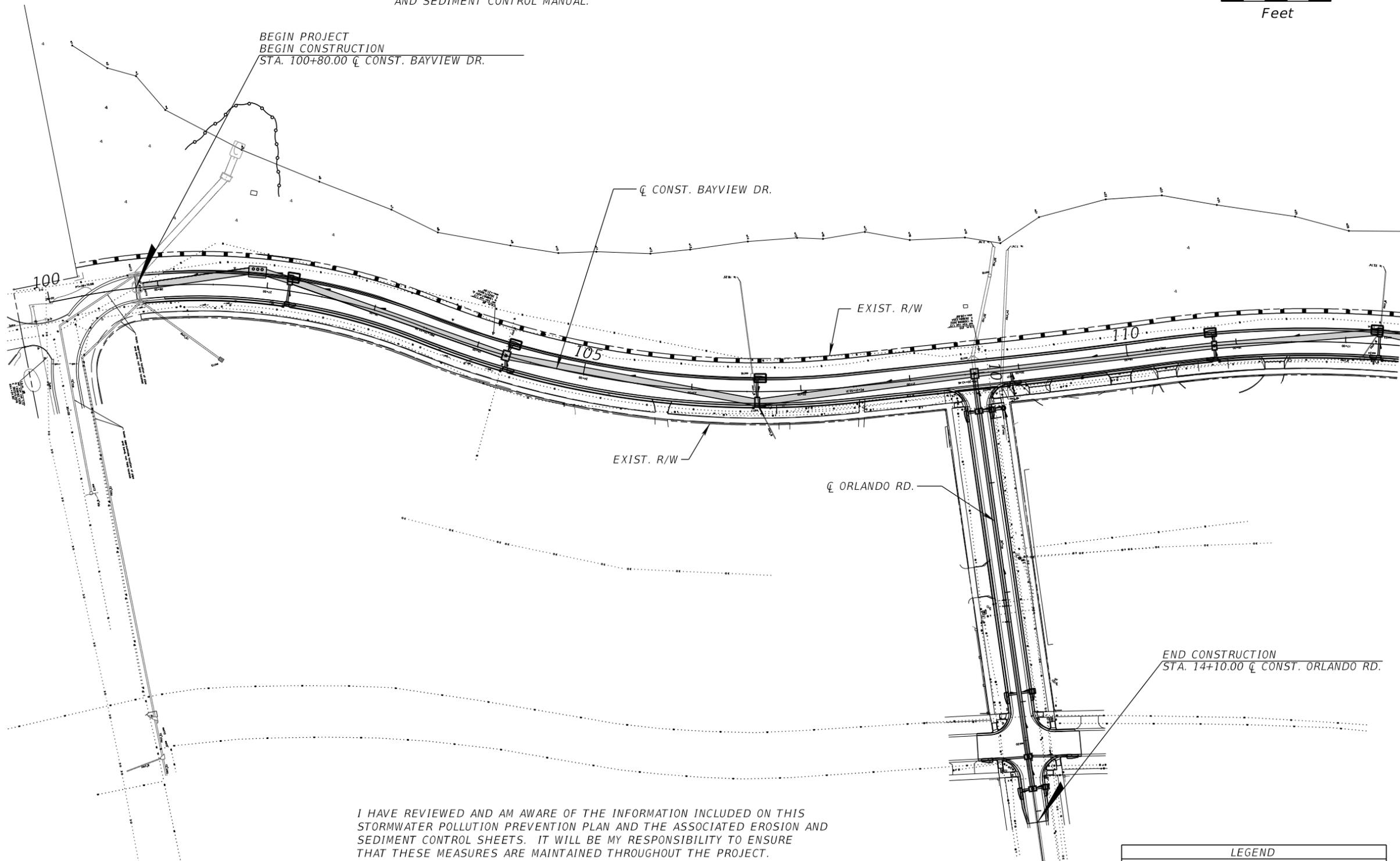
SHEET NUMBER

97

NOTE: APPROPRIATE SEDIMENT BARRIERS SHALL BE PLACED AT THE OPENING OF EACH EXISTING AND PROPOSED INLET WITHIN THE LIMITS OF THE PROJECT IN ACCORDANCE WITH THE STATE OF FLORIDA 2007 EROSION AND SEDIMENT CONTROL MANUAL.



BEGIN PROJECT
 BEGIN CONSTRUCTION
 STA. 100+80.00 @ CONST. BAYVIEW DR.



END CONSTRUCTION
 STA. 14+10.00 @ CONST. ORLANDO RD.

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 KEITH BODEKER, TOWN PROJECT MANAGER

 Date

LEGEND	
	SEDIMENT BARRIER
	FLOATING TURBIDITY BARRIER
	HAYBALE INLET PROTECTION



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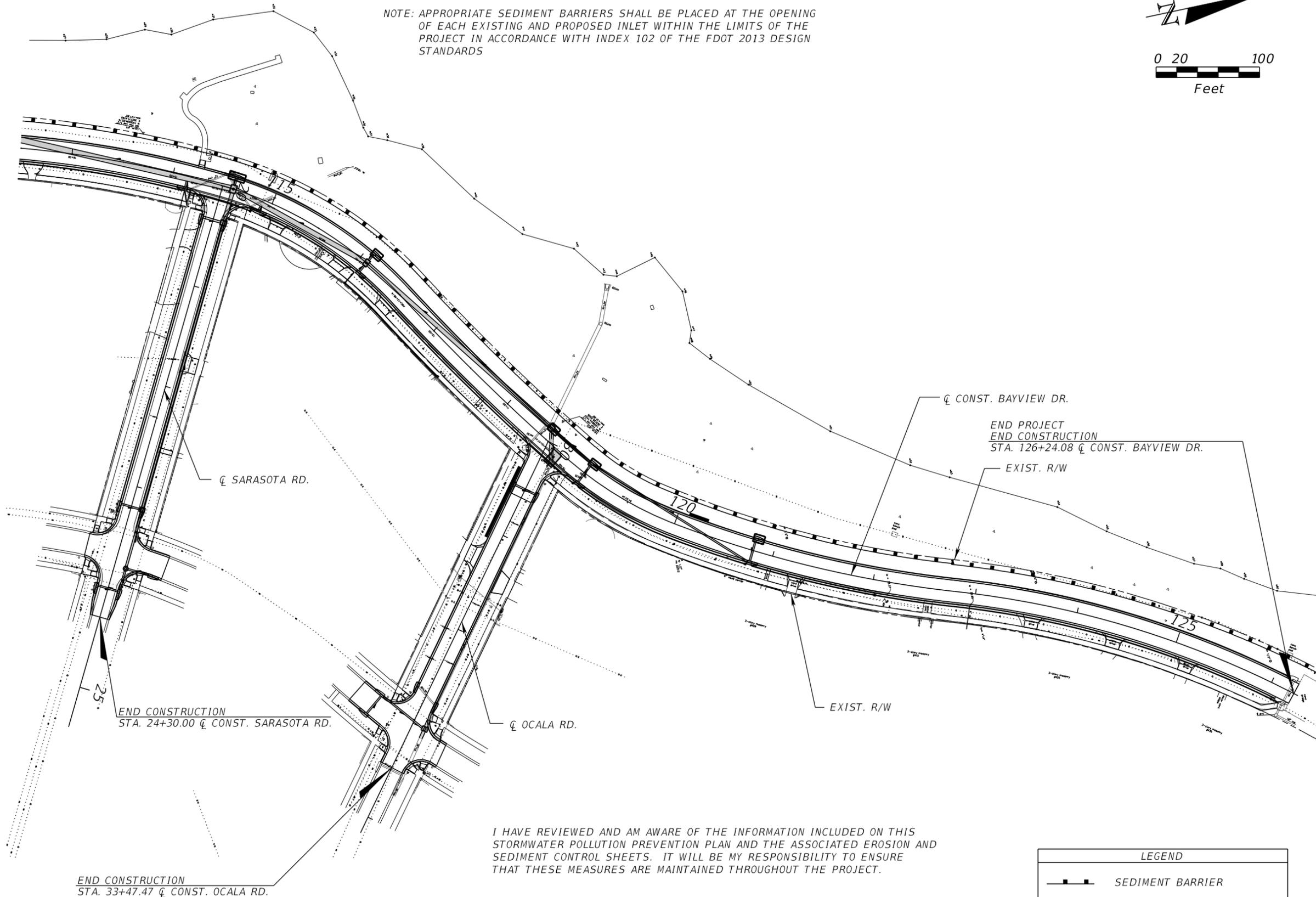
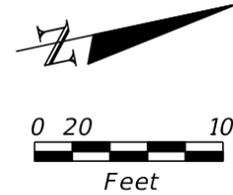
AEP NO.: 104-2881-001

SHEET TITLE

**EROSION AND SEDIMENT
 CONTROL PLANS (2)**

SHEET NUMBER

NOTE: APPROPRIATE SEDIMENT BARRIERS SHALL BE PLACED AT THE OPENING OF EACH EXISTING AND PROPOSED INLET WITHIN THE LIMITS OF THE PROJECT IN ACCORDANCE WITH INDEX 102 OF THE FDOT 2013 DESIGN STANDARDS



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LEGEND	
	SEDIMENT BARRIER
	FLOATING TURBIDITY BARRIER
	HAYBALE INLET PROTECTION

KEITH BODEKER, TOWN PROJECT MANAGER

Date

END CONSTRUCTION
 STA. 33+47.47 \bar{C} CONST. OCALA RD.

END CONSTRUCTION
 STA. 24+30.00 \bar{C} CONST. SARASOTA RD.

\bar{C} CONST. BAYVIEW DR.
 END PROJECT
 END CONSTRUCTION
 STA. 126+24.08 \bar{C} CONST. BAYVIEW DR.
 EXIST. R/W

\bar{C} SARASOTA RD.

\bar{C} OCALA RD.

EXIST. R/W

EXIST. R/W

BAYVIEW DRIVE



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APPROVED BY:

VINCENT E. SHINE, P.E.
 FLA. REG. NO. 67387
 DATE: _____

REVISIONS

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DATE ISSUED:

REVIEWED BY: BWB

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DESIGNED BY: VES

HORIZONTAL SCALE:

VERTICAL SCALE:

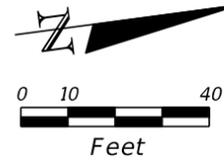
AEP NO.: 104-2881-001

SHEET TITLE

UTILITY ADJUSTMENT
 PLAN SHEET (1)
 STA. 100+80 TO STA. 102+80

SHEET NUMBER

99



BEGIN PROJECT
 BEGIN CONSTRUCTION
 STA. 100+80.00 @ CONST. BAYVIEW DR.

8" SAN/TO REMAIN
 PINELLAS TOWN UTILITIES

8" WM/TO REMAIN
 TOWN OF BELLEAIR

8" CI FM (LINED)/PROPOSED
 PINELLAS COUNTY/ BY OWNER

8" CI FM (LINED)/TO BE REMOVED
 PINELLAS COUNTY/ BY OWNER

8" SAN (UNLINED)/TO REMAIN
 PINELLAS COUNTY

INSTALL METER
 STA. 102+60.00
 20.00' LT

8" CI FM (LINED)/TO REMAIN
 PINELLAS COUNTY

EXIST. FIRE HYDRANT
 TO REMAIN
 INSTALL CHLORINE TAP
 CONNECT TO EXIST. GV
 STA. 101+26.34
 22.00' RT

RESET EXIST.
 LIGHT POLE

6" WM/TO BE REMOVED
 TOWN OF BELLEAIR/ BY CONTRACTOR

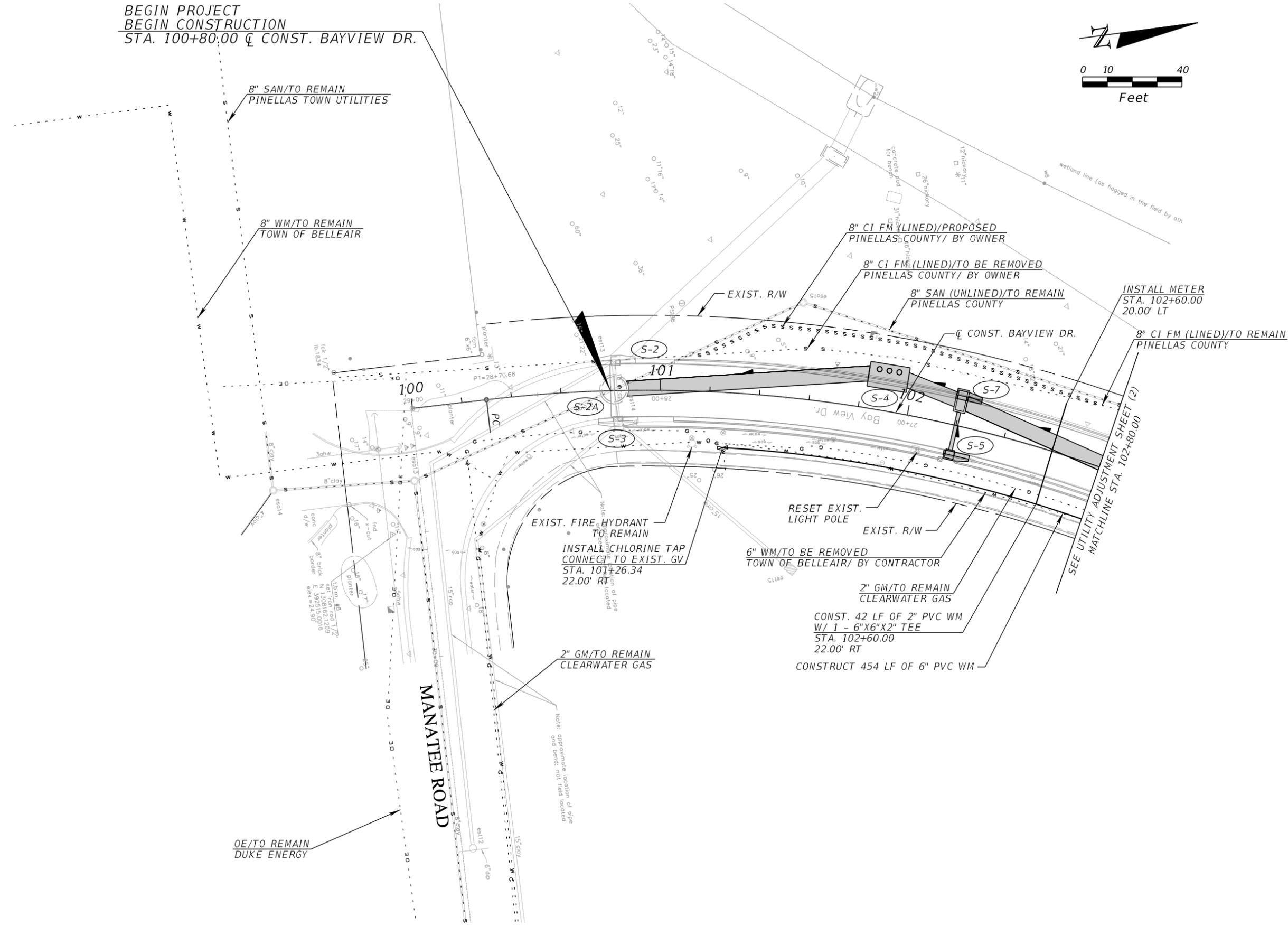
2" GM/TO REMAIN
 CLEARWATER GAS

CONST. 42 LF OF 2" PVC WM
 W/ 1 - 6"X6"X2" TEE
 STA. 102+60.00
 22.00' RT

CONSTRUCT 454 LF OF 6" PVC WM

2" GM/TO REMAIN
 CLEARWATER GAS

0E/TO REMAIN
 DUKE ENERGY



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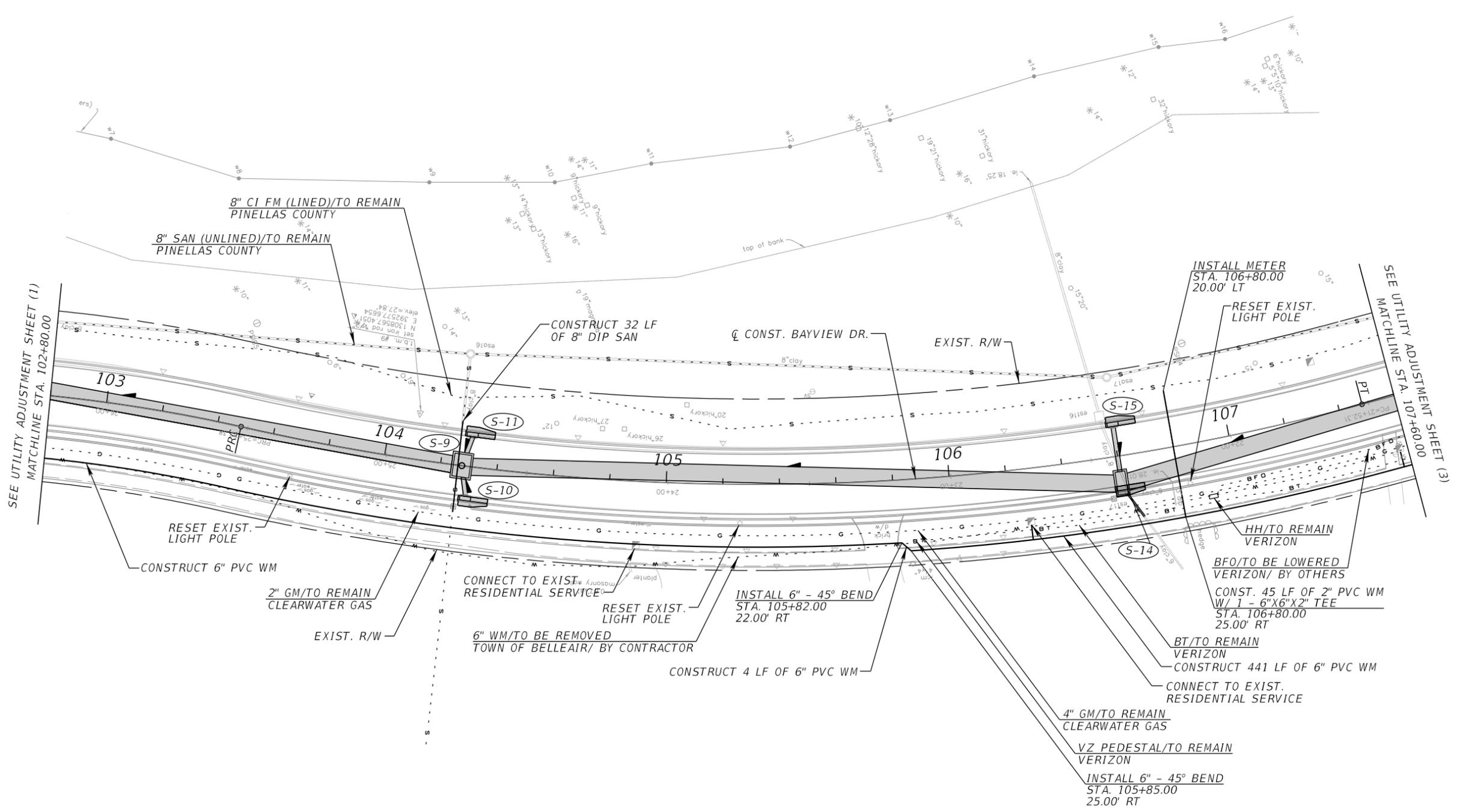
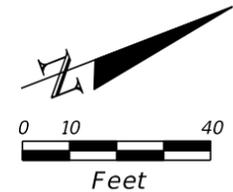
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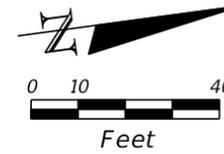
UTILITY ADJUSTMENT
PLAN SHEET (2)
STA. 102+80 TO STA. 107+60

SHEET NUMBER

100



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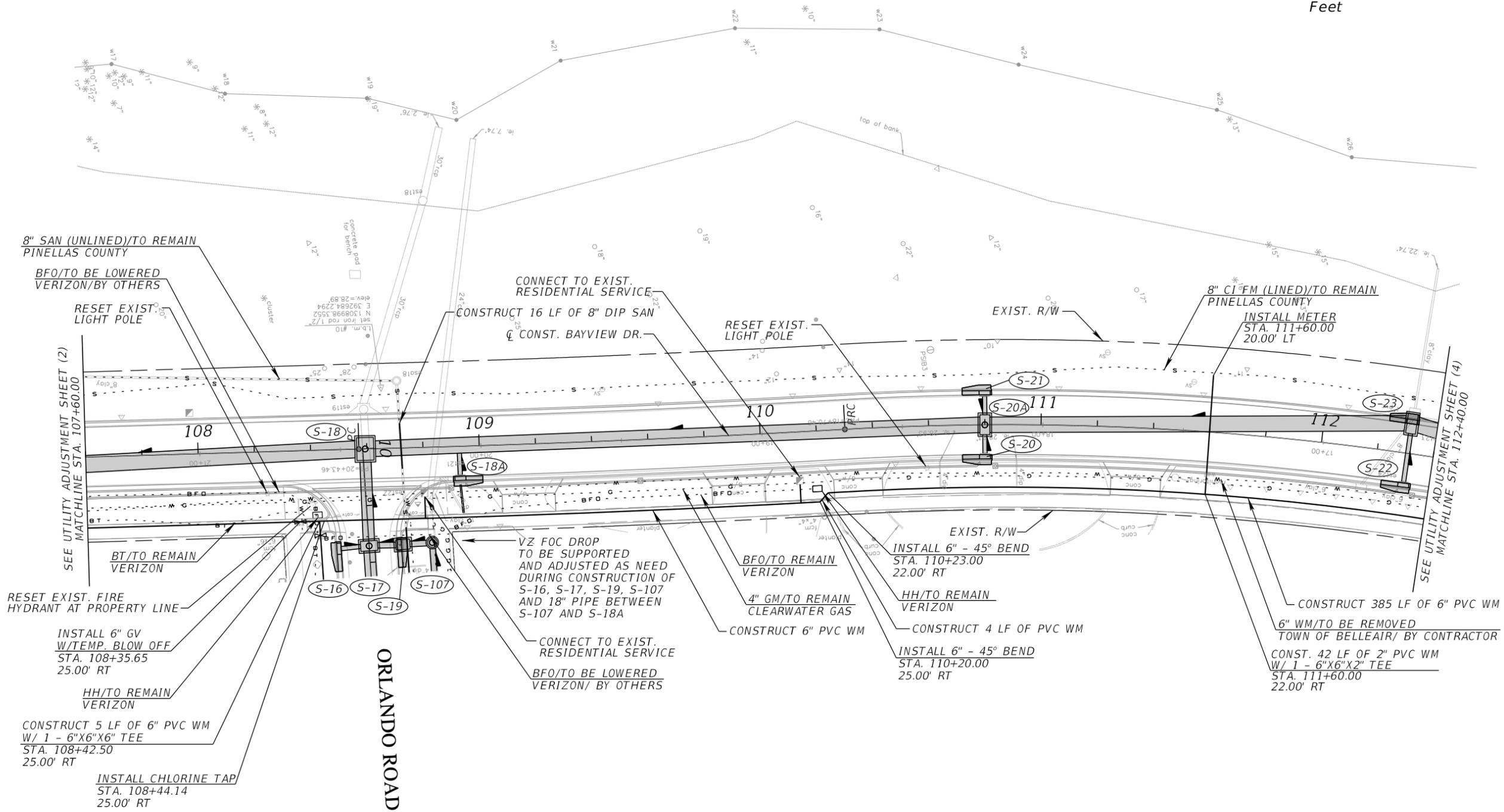
AEP NO.: 104-2881-001

SHEET TITLE

UTILITY ADJUSTMENT
PLAN SHEET (3)
STA. 107+60 TO STA. 112+40

SHEET NUMBER

101



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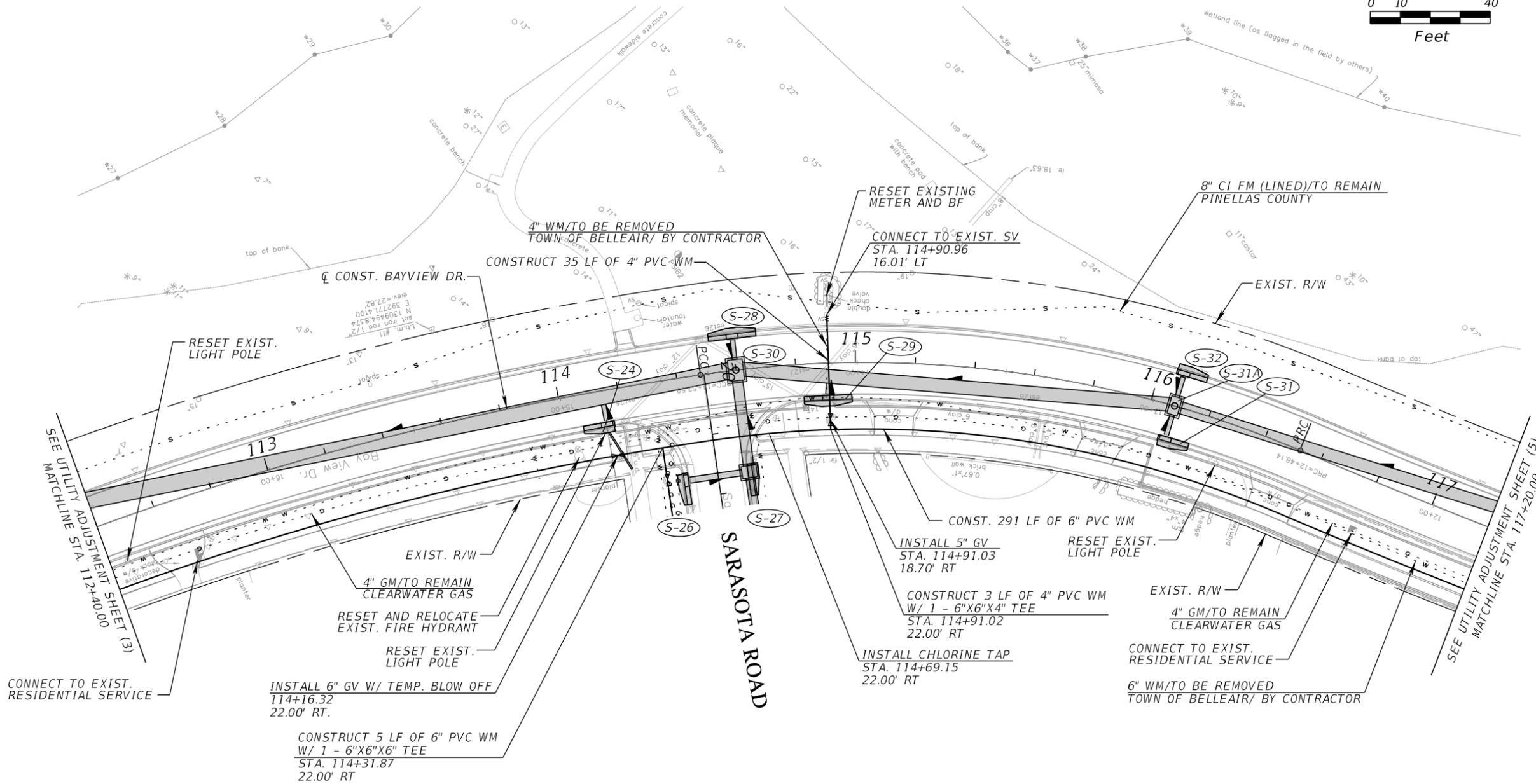
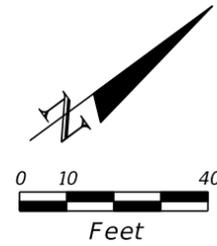
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SHEET TITLE

UTILITY ADJUSTMENT
 PLAN SHEET (4)
 STA. 112+40 TO STA. 117+20

SHEET NUMBER

102



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DATE: _____

REVISIONS

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DESIGNED BY: VES

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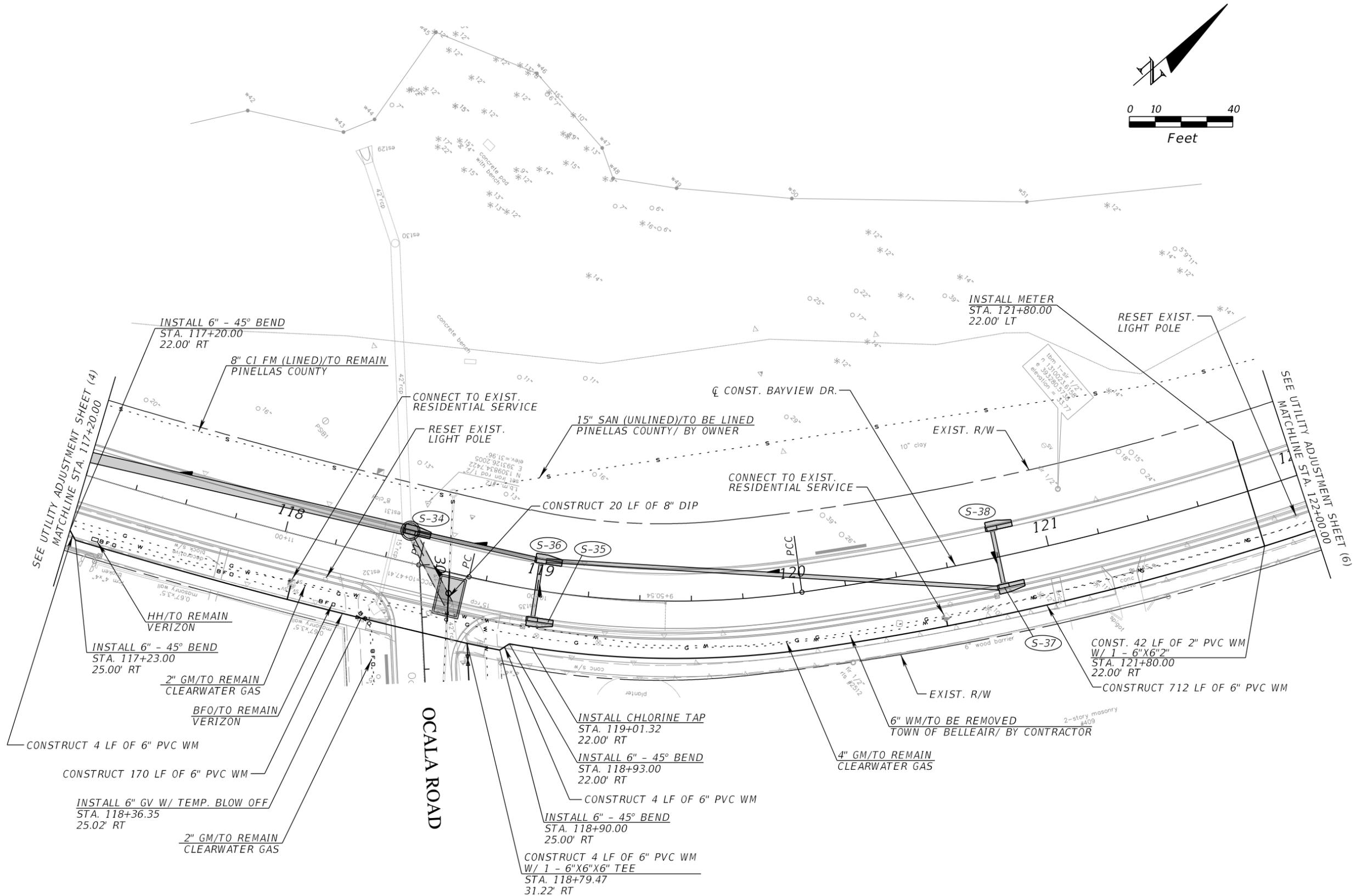
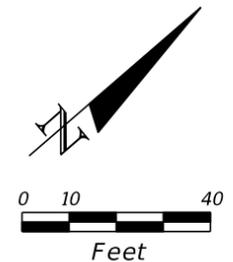
AEP NO.: 104-2881-001

SHEET TITLE

UTILITY ADJUSTMENT
PLAN SHEET (5)
STA. 117+20 TO STA. 122+00

SHEET NUMBER

103



ORLANDO ROAD



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BAYVIEW DRIVE STREET AND DRAINAGE IMPROVEMENTS

SUB-CONSULTANTS

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3802 Ehrlich Road, Suite 306
Tampa, Florida 33624
(813)549-3740

APPROVED BY:

VINCENT E. SHINE, P.E.
FLA. REG. NO. 67387
DATE: _____

REVISIONS

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VERTICAL SCALE:

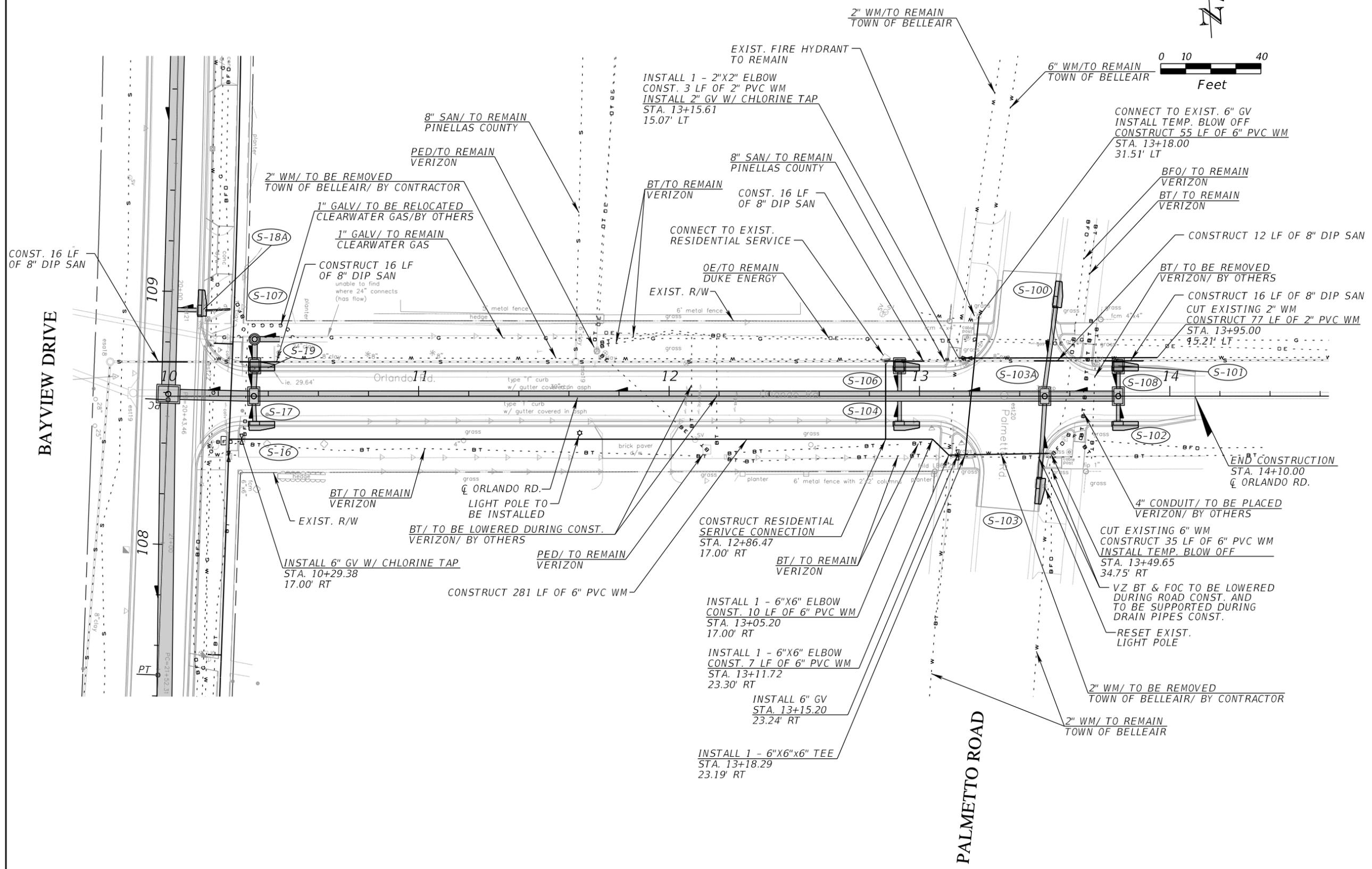
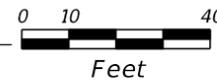
AEP NO.: 104-2881-001

SHEET TITLE

UTILITY ADJUSTMENT
PLAN SHEET (7)
ORLANDO ROAD
STA. 10+11 TO STA. 14+10

SHEET NUMBER

105



SARASOTA ROAD



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APPROVED BY:

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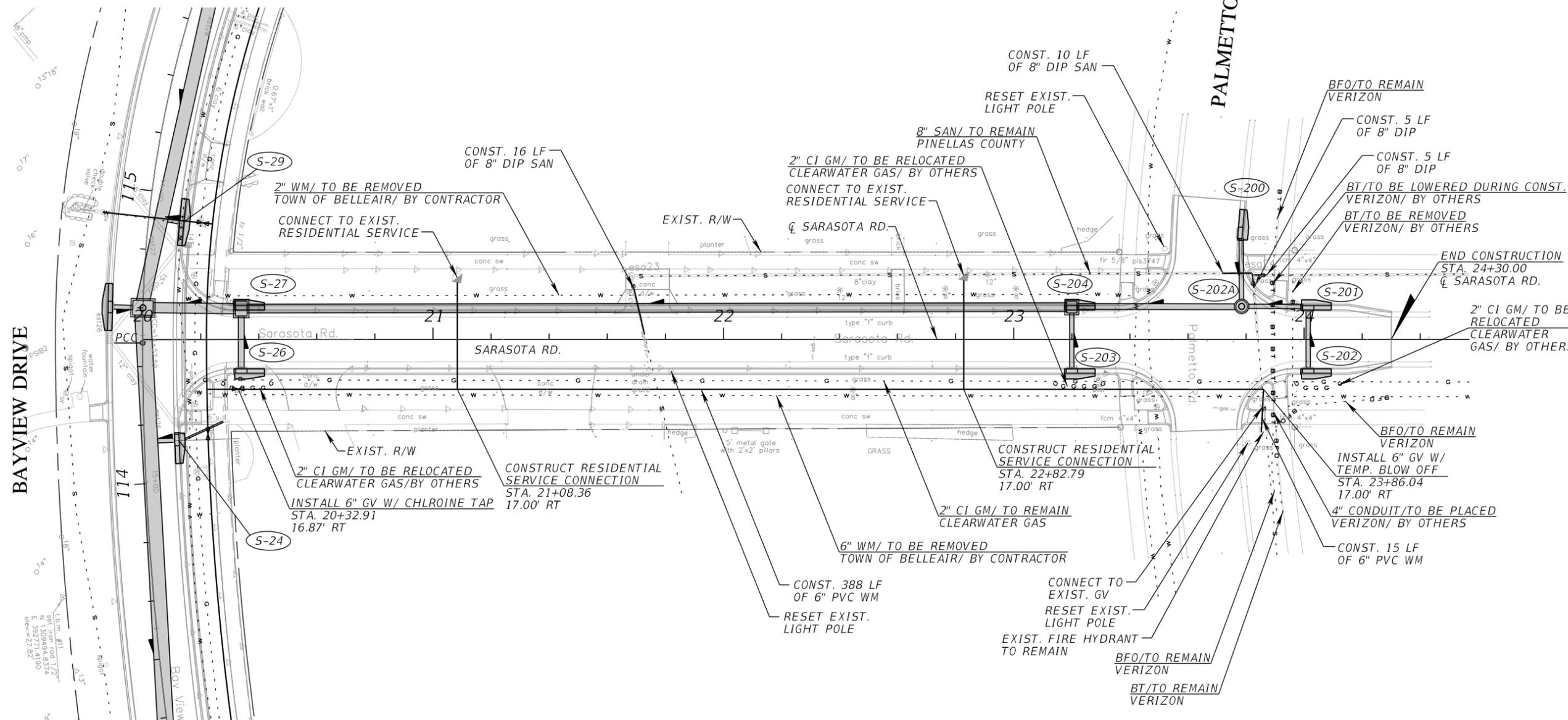
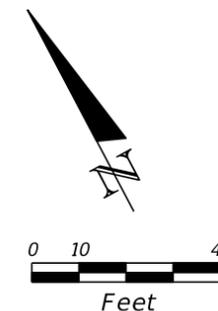
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SHEET TITLE

UTILITY ADJUSTMENT
PLAN SHEET (8)
SARASOTA ROAD
STA. 20+11 TO STA. 24+30

SHEET NUMBER

106



OCALA ROAD



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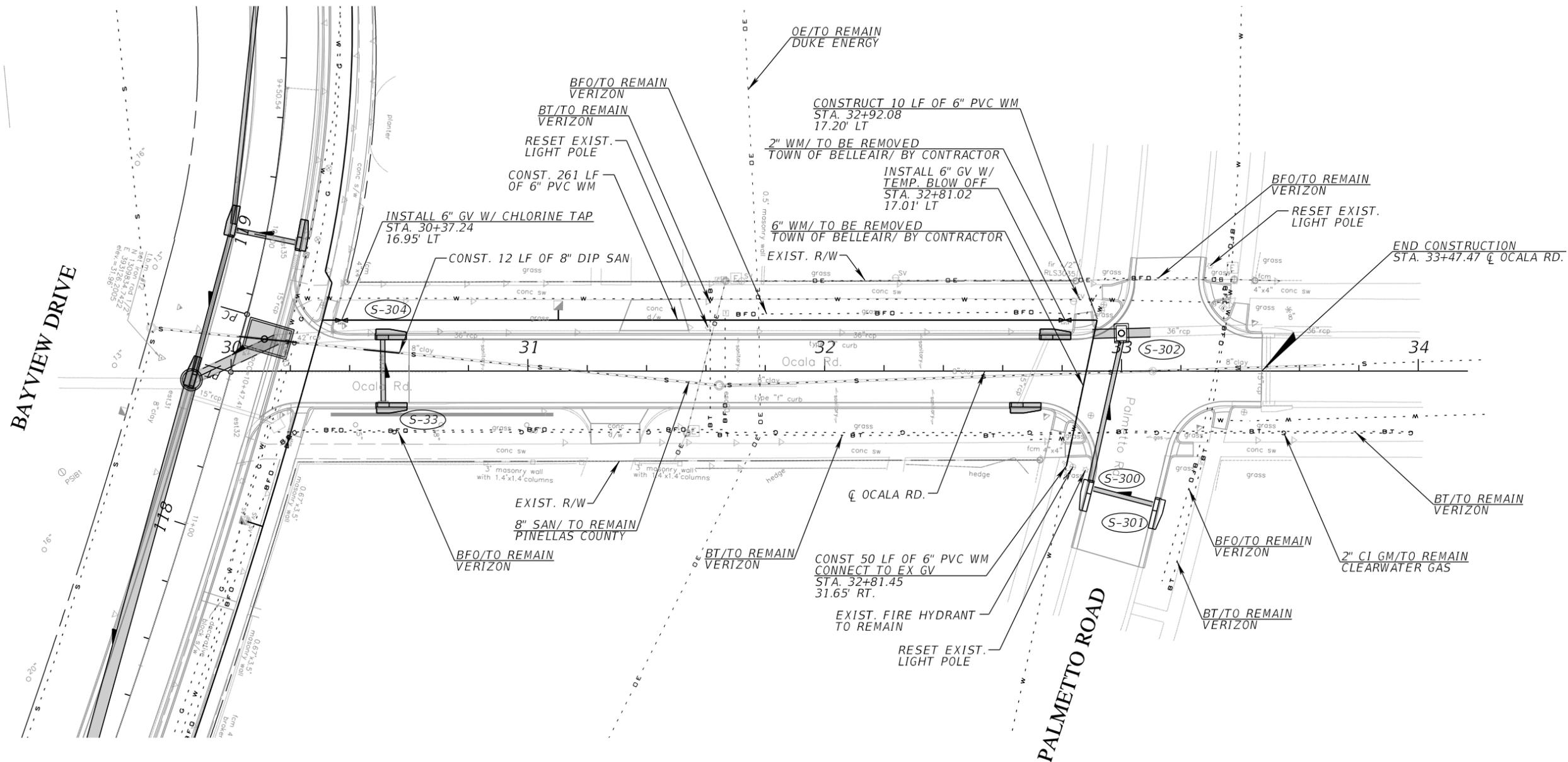
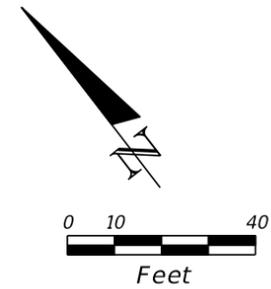
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SHEET TITLE

UTILITY ADJUSTMENT
PLAN SHEET (9)
OCALA ROAD
STA. 30+11 TO 33+47

SHEET NUMBER

107



RS&H, Inc.
1715 N. Westshore Blvd., Suite 500
Tampa, Florida 33607
(813)289-5550 FAX: (813)289-0263

www.rsandh.com
FL.Cert.Nos: AAC001886
EB0005620 LCC000210



TOWN OF BELLEAIR
PUBLIC WORKS DEPARTMENT
901 PONCE DE LEON BLVD.
BELLEAIR, FL 33756

**BAYVIEW DRIVE
STREET AND DRAINAGE
IMPROVEMENTS**

SUB-CONSULTANTS

Mckim & Creed, Inc.
3802 Ehrlich Road, Suite 306
Tampa, Florida 33624
(813)549-3740

APPROVED BY:

VINCENT E. SHINE, P.E.
FLA. REG. NO. 67387
DATE: _____

REVISIONS

NO.	DESCRIPTION	DATE

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REVIEWED BY: BWB

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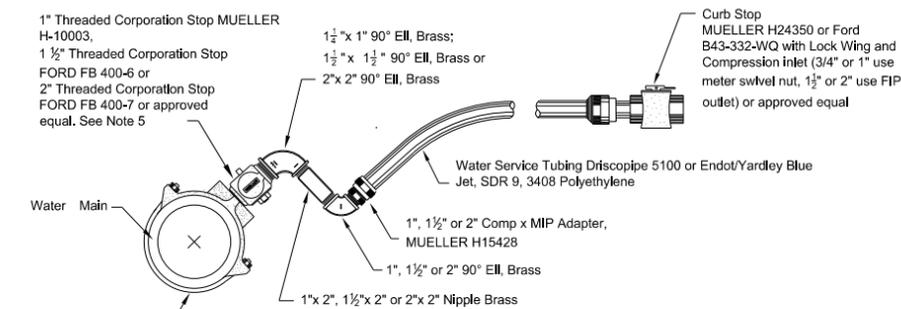
VERTICAL SCALE:

AEP NO.: 104-2881-001

SHEET TITLE

UTILITY DETAILS

SHEET NUMBER

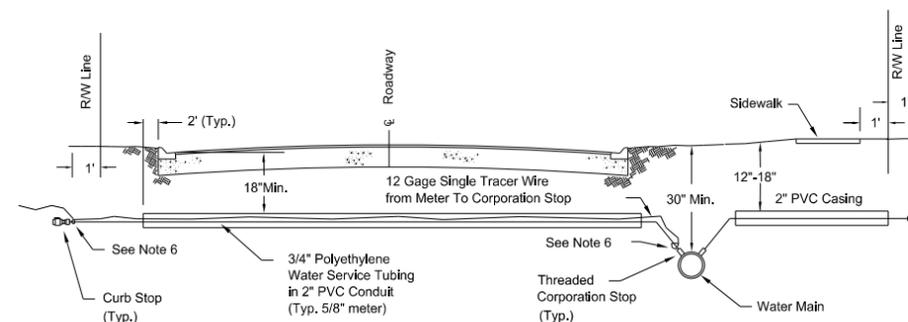


- NOTES:
1. CONTRACTOR TO STAKE SERVICE CONNECTIONS, WHICH ARE TO BE 2 FT. FROM SIDE LOT LINE ON EITHER SIDE OF LOT (SEE INDEX-401 SHEET 3 OF 3). THESE SERVICES TO BE CONSISTENT WITHIN THE SUBDIVISION. DRIVEWAYS SHALL NOT BE BUILT OVER METERS OR SERVICE TAPS. METERS OR SERVICE TAPS SHALL NOT BE INSTALLED WITHIN OR UNDER DRIVEWAYS.
 2. ALL LINES SHALL BE CHLORINATED AND PRESSURE TESTED (TEST FOR TWO HOURS @ 150 P.S.I.) UNDER THE DIRECTION OF THE UTILITIES DEPARTMENT. AFTER SUCCESSFUL COMPLETION OF THE TESTING AND CHLORINATION, THE PRESSURE SHALL REMAIN ON THE SYSTEM AT ALL TIMES.
 3. TEN FT. SEPARATION REQUIRED BETWEEN PARALLEL WATER & SANITARY SEWER LINES.
 4. SADDLES REQUIRED FOR ALL SERVICE CONNECTIONS TO MAINS.
 5. TAPS SHOULD BE MADE ON A 45° ANGLE FROM TOP OF PIPE, FOR CORP. 12" OR LESS, TAP SHALL BE MADE ON A 90° ANGLE FROM TOP OF PIPE.
 6. MINIMUM DISTANCE BETWEEN SERVICE TAPS TO BE NOT LESS THAN 36".

WATER MAIN SERVICE CONNECTION DETAIL

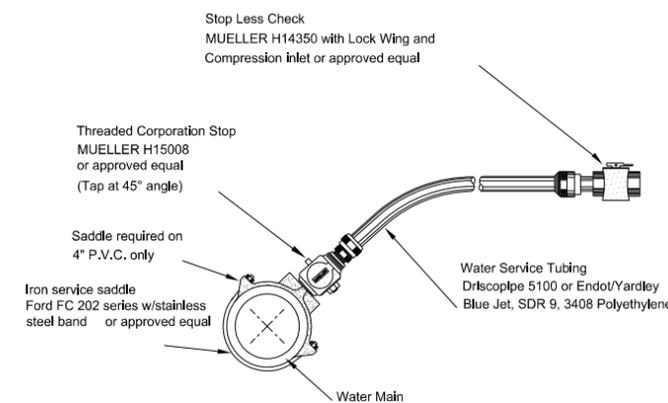
N.T.S.

- NOTES:
1. 2" PVC CASING SHALL EXTEND TO CUSTOMER SIDE OF SIDEWALK.
 2. PVC CONDUIT TO BE MIN. 18" BELOW THE SURFACE MEASURED FROM TOP OF FACE OF CURB.
 3. WATER MAINS TO BE MIN. 30" BELOW GRADE AND APPROX. 4' BACK OF CURB.
 4. CURB STOP TO BE LOCATED APPROX. 1 FOOT BACK OF RIGHT-OF-WAY.
 5. SERVICE LINE TO BE MIN. 12" AND MAX. 18" BELOW GRADE.
 6. CONNECT 12 GAGE TRACER WIRE WITH TIE WRAPS AT CORPORATION STOP AND AT CURB STOP. PROVIDE 1 FOOT MINIMUM EXCESS LENGTH OF TRACER WIRE IN METER BOX.



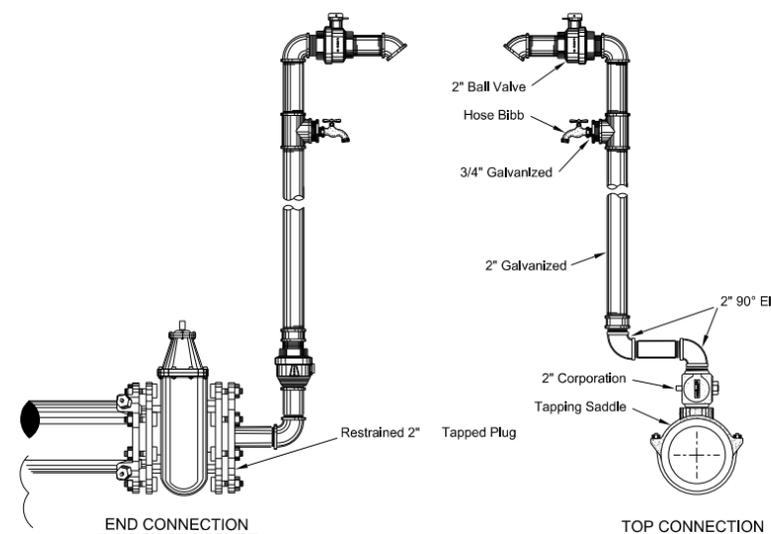
WATER MAIN SERVICE LINES TYPICAL SECTION

N.T.S.



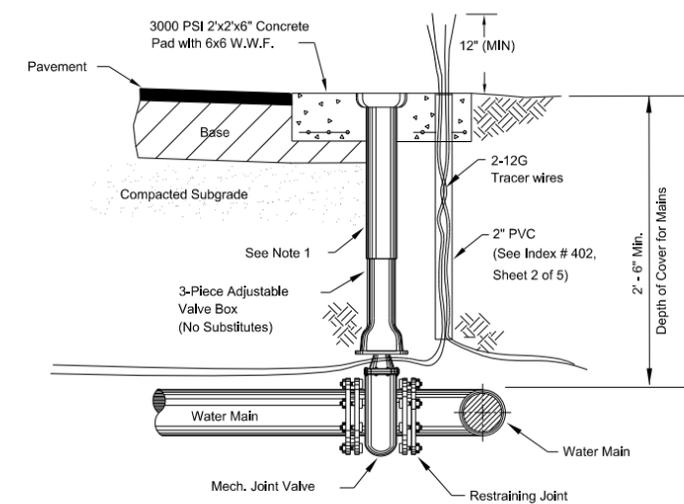
CHLORINATION TAP

N.T.S.



TEMPORARY BLOWOFF AND SAMPLE TAP

N.T.S.



TYPICAL VALVE & BOX SETTING

N.T.S.

CHLORINATION TAP

N.T.S.

TEMPORARY BLOWOFF AND SAMPLE TAP

N.T.S.

TYPICAL VALVE & BOX SETTING

N.T.S.

LIGHTNING GENERAL NOTES

- PRIOR TO ANY EQUIPMENT ORDER, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL EQUIPMENT SPECIFICATION OR DESIGN DATA FOR ALL MATERIAL PROPOSED FOR THE PROJECT.
- THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THESE PLANS, ARE APPROXIMATE AND BASED ON THE INFORMATION FURNISHED TO THE ENGINEER BY THE UTILITY OWNER(S) AND ARE SHOWN AS NOTICE TO THE CONTRACTOR THAT UNDERGROUND UTILITIES EXIST. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY OWNER(S) FOR LOCATION AND STAKING OF UNDERGROUND FACILITIES BEFORE EXCAVATING.
- STATE OF FLORIDA STATUTE 556 (2008) REQUIRES THAT BEFORE EXCAVATING, NOTICE BE GIVEN TO THE SUNSHINE STATE ONE CALL OF FLORIDA, INC. (SSOCOF) A MINIMUM OF TWO (2) FULL BUSINESS DAYS AT 1-800-432-4770. NOT ALL UTILITY COMPANIES ARE MEMBERS OF SSOCOF.
- THE LOCATION OF THE POLES, CONDUCTORS, CONDUITS, JUNCTION BOXES AND SERVICE POLES MAY BE SHIFTED BY THE CONTRACTOR TO ACCOMMODATE LOCAL CONDITIONS AND EXISTING UTILITY LOCATIONS. CONTACT ENGINEER IF THERE IS A CONFLICT TO BE RESOLVED, NO POLES ARE TO BE PLACED AT THE BOTTOM OF ANY DITCH.
- THE CONTRACTOR SHALL NOTIFY DUKE ENERGY AT LEAST 48 HOURS PRIOR TO ANY INSTALLATION THAT IS WITHIN 20 FEET OF ENERGIZED ELECTRICAL CONDUCTORS. DUKE ENERGY AT ITS OPTION, SHALL ASSIST THE CONTRACTOR, COVER UP ENERGIZED CONDUCTORS AT INSTALLATION SITE, OR TAKE OTHER SAFETY PRECAUTIONS AS NECESSARY. EXTREME CAUTION SHALL BE EXERCISED AT ALL TIMES IN PERFORMANCE OF WORK AROUND THE PRIMARY HIGH VOLTAGE COMPONENTS.
- THE CONTRACTOR SHALL STAKE ALL POLE LOCATIONS AND REQUEST UTILITY COMPANIES TO LOCATE AND STAKE UNDERGROUND UTILITIES PRIOR TO EXCAVATING.
- AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE WITHIN TWO FEET OF THE LIGHT POLE FOUNDATIONS OR CONDUIT RUNS, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR WILL HAND DIG THE FIRST FOUR FEET OF THE HOLE FOR THE POLE FOUNDATION AND CONDUIT RUN.
- ALL CONDUIT TRENCHES SHALL BE BACKFILLED COMPLETELY TO PROVIDE SAFE CROSSING BY THE END OF EACH WORKING DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE. THE CONTRACTOR SHALL NOT OPEN ANY AREA THAT CAN NOT BE BACKFILLED IN THE SAME WORK PERIOD.
- CONTRACTOR SHALL SUBMIT TO THE ENGINEER OF RECORD SHOP DRAWINGS DETAILING THE LAYOUT OF THE ELECTRICAL EQUIPMENT INSIDE THE DISTRIBUTION POINT LIGHTING ELECTRICAL ENCLOSURE.
- CONDUIT MUST BE PLACED WITHIN THE RIGHT-OF-WAY BUT CAN BE ADJUSTED TO FIT AROUND THE EXISTING AND PROPOSED UTILITIES AND CONDUITS. WHERE PLANNED LOCATION OF LIGHTING CONDUIT RUNS 36" UNDER PAVEMENT IS FOUND TO CONFLICT WITH UNDERGROUND UTILITIES, THE LIGHTING CONDUIT POSITION SHALL BE ALTERED VERTICALLY OR HORIZONTALLY TO AVOID THE CONFLICT AS RECOMMENDED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. COST OF SUCH TREATMENT WILL BE INCIDENTAL TO PAY ITEMS PROVIDED.
- THE LIGHTING SYSTEM WILL BE MAINTAINED BY THE TOWN OF BELLEAIR UPON FINAL ACCEPTANCE. THE CONTRACTOR SHALL SUBMIT THE AS-BUILT PLANS TO THE ENGINEER, PRIOR TO FINAL ACCEPTANCE. COST OF SUCH PREPARATION SHALL BE INCIDENTAL TO PAY ITEMS PROVIDED.
- THE CONTRACTOR SHALL SECURE THE SERVICES OF A CONTRACTOR'S ENGINEER OF RECORD (CEOR) TO DESIGN AND DETAIL THE STREET LIGHTING. THE CEOR SHALL BE A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- THE LIGHTING SHALL BE DESIGNED AND DETAILED BY A CONTRACTOR'S ENGINEER OF RECORD (CEOR).
- ALL CALCULATIONS AND DETAILS SHALL BE SIGNED AND SEALED BY THE CEOR. CALCULATIONS SHALL BE DEVELOPED ON 8 1/2" X 11" PAPER. ALL DESIGNS, CALCULATIONS, AND DETAILS SHALL BE SIGNED AND SEALED BY THE CEOR. DETAILS SHALL BE DEVELOPED ON 11" X 17" PAPER. DESIGNS AND DETAILS SHALL BE COMPATIBLE WITH THE FDOT STANDARD INDEX WITH THE LATEST REVISIONS.
- SHOP DRAWINGS:
 - ALL DESIGNS, DETAILS, AND SHOPDRAWINGS SHALL BE SUBMITTED TO THE CITY FOR DISTRIBUTION TO BE REVIEWED.
 - THE CONTRACTOR SHALL NOT ORDER ANY MATERIAL OR BEGIN CONSTRUCTION UNTIL ALL DESIGNS, DETAILS, AND SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.
 - MULTIPLE SUBMITTALS DUE TO REJECTED DESIGNS, DETAILS OR SHOP DRAWINGS SHALL NOT BE GROUNDS FOR A CLAIM.
 - ADDITIONAL MATERIALS NECESSARY TO MEET THE DESIGN REQUIREMENTS THAT WERE NOT ACCOUNTED FOR IN THE CONTRACTOR'S BID SHALL NOT BE GROUNDS FOR A CLAIM.
- STREET LIGHT TO BE MANUFACTURED BY: TRADITIONAL CONCRETE, INC., WASHINGTON STYLE, SERIES 700, MODEL #D713, STD. CODE D713-SP-EA-1, COLOR: SALT & PEPPER. LUMINAIRE: P/N CP-3091-LAF-S12-48W-3000K-120-RAL9005TX HEAD MODULE: ROUND, CLEAR FROSTED ACRYLIC, 1P 66 WEATHERPROOF FITTER: OCTOGONAL TRANSITION PLATE: OCTAGONAL, P/N CP 3752-RAL9005TX OPTICAL/ELECTRICAL: LED, 48W, WARM WHITE, TYPE 5 OPTIC, 120-277 VAC DRIVER MODULE WIRING: #14-7 AWG, 12" PIGTAIL COLOR: JET BLACK
- JUNCTION BOX TO BE HDPE, LIGHT DUTY (PEDESTRIAN), 300 LB/SF.
- PROVIDE ALL WORK TO MEET OR EXCEED REGULATORY REQUIREMENTS, INCLUDING LATEST EDITION OF THE NATIONAL ELECTRIC CODE (NEC), FLORIDA BUILDING CODE AND LOCAL REQUIREMENTS AND BUILDING CODES FOR ELECTRICAL SYSTEMS.
- PROVIDE ALL EQUIPMENT AND APPURTENANCES FOR A COMPLETE OPERATING INSTALLATION OF ALL ELECTRICAL SYSTEMS.
- PROVIDE ENGRAVED NAMEPLATES ATTACHED WITH STAINLESS STEEL SCREWS FOR ALL ELECTRICAL EQUIPMENT.
- ALL CONDUCTORS IN CONDUIT SHALL BE COPPER, 600 VOLT STRANDED WITH MINIMUM SIZE # 12 AWG THWN-2, UNLESS OTHERWISE SPECIFIED.
- ALL EQUIPMENT SHALL BE RATED FOR MAXIMUM AVAILABLE VOLTAGE AND GROUND FAULT CURRENT. ALL EQUIPMENT SHALL BE UL LISTED.
- CONTRACTOR SHALL COORDINATE ELECTRICAL REQUIREMENTS AND MAKE FINAL CONNECTIONS OF EQUIPMENT FURNISHED BY OTHER TRADES.

- ALL REWIRED CIRCUITS SHALL BE IN NEW CONDUIT, SCHEDULE 80 PVC. DIRECT BURIED CONDUIT SHALL HAVE 18" COVER MINIMUM, WITH METAL CAUTION TAPE 6" ABOVE.
- PROVIDE GREEN GROUND WIRE IN EACH RACEWAY. SIZE WIRE IN ACCORDANCE WITH TABLE 250.122 OF THE NEC.
- FOR EXISTING BRANCH CIRCUITS WHERE NEW WIRING WILL NOT BE INSTALLED, INTERCEPT EXISTING BRANCH CIRCUIT AT EXISTING POLE LOCATION AND INSTALL NEW JUNCTION BOX. RUN NEW CONDUIT AND WIRE TO NEW POLE LOCATION FROM NEW JUNCTION BOX.
- ALL WIREWAYS AND JUNCTION BOXES TO BE PROPERLY SIZED PER THE NEC. ALL WIRING TO HAVE WIRE OR CABLE MARKERS.
- OUTDOOR EQUIPMENT, CONDUIT AND CONNECTIONS SHALL BE WATERPROOF.
- WHEN MORE THAN ONE CIRCUIT IS CONTAINED IN A CONDUIT RUN, EACH LOAD CONDUCTOR SHALL HAVE ITS OWN SEPARATE NEUTRAL. NO SHARED NEUTRALS SHALL BE PERMITTED.
- PHOTOCELL TO BE HUB-MOUNTED DIRECTLY TO LOAD CONTROL CENTER BOX. PHOTOCELL TO BE MOUNTED ORIENTED DOWNWARD, PREFERABLY FACING NORTH. DO NOT ORIENT PHOTOCELL WHERE IT CAN POTENTIALLY SEE ARTIFICIAL LIGHT.
- LOAD CENTER TO BE SUITABLE AS SERVICE ENTRANCE EQUIPMENT. 10K AIC, MAIN LUGS ONLY, 120/240VAC, 1PH - 3W, AMPACITY AND SIZE PER PANEL SCHEDULES. PROVIDE ALL CIRCUIT BREAKERS, SPACES, AND BRANCH CIRCUIT WIRING PER PANEL SCHEDULES.
- PROVIDE A CIRCUIT DIRECTORY FOR ALL LOAD CENTERS.
- PROVIDE A SERVICE ENTRANCE LIGHTING ARRESTOR DEVICE AT THE MAIN SERVICE ENTRANCE.
- ALL ELECTRICAL GEAR SHALL BE OF THE SAME MANUFACTURER.
- WIND LOAD ANALYSIS, IF REQUIRED, WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.



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APPROVED BY:

JEREMY LEUSCHKE, P.E.
FLA. REG. NO. 69203
DATE: _____

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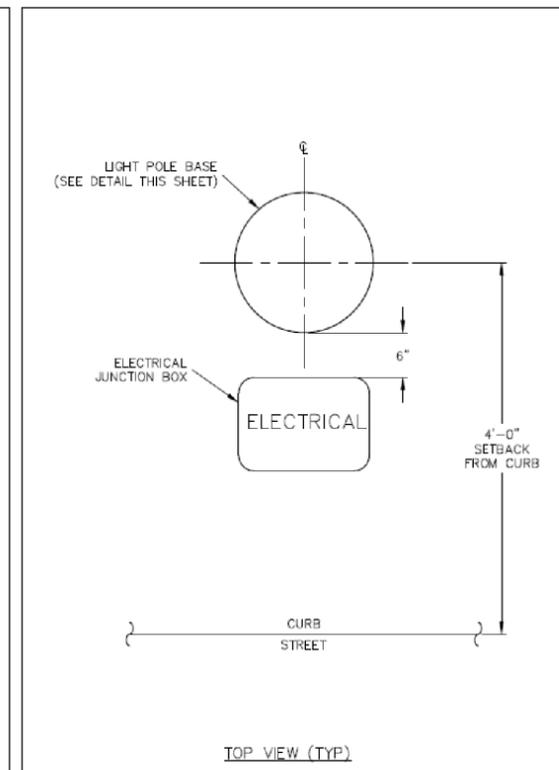
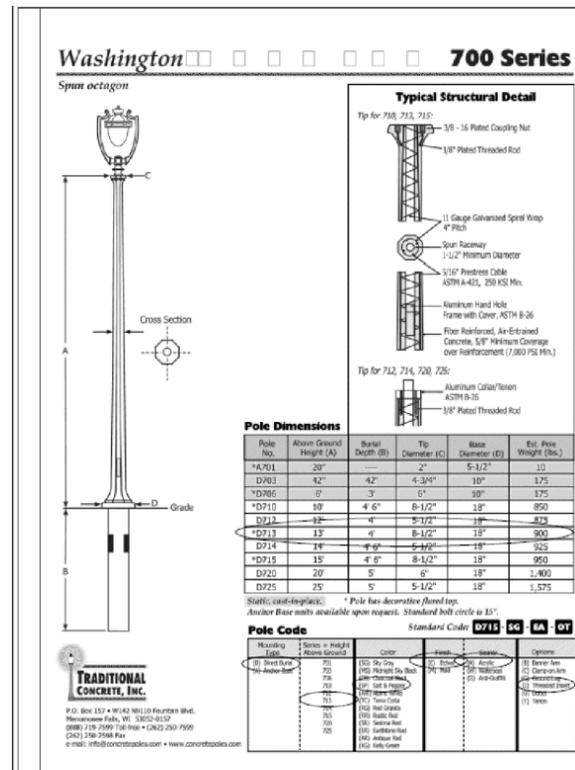
AEP NO.: 104-2881-001

SHEET TITLE

**LIGHTING NOTES
AND DETAILS**

SHEET NUMBER

109



SIGNING AND PAVEMENT MARKING GENERAL NOTES

1. ALL CROSSWALKS SHALL BE PATTERNED.

2. CROSSWALK SPECIFICATIONS

- INSTALLED PRODUCT IS PAVEWAY STS, MANUFACTURED BY PAVEWAY SYSTEMS, IN ACCORDANCE WITH FDOT SPECIFICATION 523.
- PROPOSED PATTERN IS DIAGONAL HERRINGBONE WITH SOLDIER COARSE BORDER.
- PROPOSED COLOR IS PAVEWAY SYSTEM COLOR CITRUS (R23).
- PROPOSED PATTERN AND COLOR MATCH CROSSWALKS INSTALLED ON BELLEVIEW BLVD AND DRUID RD.
- INSTALLATION
 - A. INSTALLATION IS TO TAKE PLACE ON A FULLY CURED SUBSTRATE. FOR ASPHALT SURFACES, FULL CURE IS 14 DAYS. FOR CONCRETE SURFACES, FULL CURE IS 28 DAYS.
 - B. SURFACE PREPARATION IS TO BE DONE MECHANICALLY, NOT CHEMICALLY. MEANS OF MECHANIC SURFACE PREPARATION INCLUDES BROOMS, HIGH POWERED BLOWER, OIL-FREE COMPRESSED AIR, PRESSURE WASHING (WITH APPROPRIATE DRYING TIME), DIAMOND GRINDING OR SHOT BLASTING. HEATING AN ASPHALT SUBSTRATE WITH THE INTENTION TO SOFTEN THE SURFACE IS NOT ALLOWED.
 - C. TEMPLATES, IN SELECTED PATTERN, ARE TO BE ALIGNED AND JOINED TOGETHER USING APPROPRIATE ADHESIVES.
 - D. INSTALLATION CAN PROCEED WHEN SURFACE TEMPERATURES ARE 55 DEGREES F AND RISING. THE BINDER IS TO BE SPREAD OVER THE TEMPLATE TO AN AVERAGE THICKNESS OF 50 MILS. IMMEDIATELY AFTER THE BINDER IS SPREAD, BEGIN BROADCASTING SELECTED AGGREGATE TO THE POINT OF REJECTION AND THE BINDER IS FULLY INFUSED.
 - E. CURE TIME WILL VARY AND THE AREA CAN BE OPENED FOR TRAFFIC BETWEEN 1-3 HOURS AFTER COMPLETION. BEFORE FULLY CURED, SWEEP OFF EXCESS AGGREGATE AND REMOVE THE TEMPLATES, REVEALING THE SELECTED PATTERN. UPON FULL CURE, SWEEP OR SCRAPE THE AREA AGGRESSIVELY TO REMOVE ANY REMAINING LOOSE AGGREGATE.
- DATA
 - A. PAVEWAY STS IS A 100% SOLIDS, THERMO SET BINDER. IT IS SOLVENT-FREE, LOW MODULUS, BONDING AGENT. IT IS TOPPED, AND IMBEDDED INTO, WITH ANGULAR AGGREGATES THAT EXHIBIT A HIGH POLISHED STONE VALUE (PSV). THROUGH COLOR, HIGH POLISHED STONE VALUE AGGREGATE SHOULD HAVE A NOMINAL SIZE RANGING FROM 0.04 MILLS TO 0.125 MILS.
 - B. INSTALLED THICKNESS OF PAVEWAY STS IS 5/32" NOMINAL ABOVE SUBSTRATE.
 - C. PAVEWAY STS EXHIBITS FN40R FRICTIONAL PERFORMANCE VALUES IN EXCESS OF 65 AFTER INITIAL INSTALLATION AND IN EXCESS OF 45 AFTER A PERIOD OF 30 MONTHS.



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**SIGNING &
 PAVEMENT MARKING
 GENERAL NOTES**

SHEET NUMBER

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SIGNING AND PAVEMENT MARKING GENERAL NOTES

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C. PAVEWAY STS EXHIBITS FN40R FRICTIONAL PERFORMANCE VALUES IN EXCESS OF 65 AFTER INITIAL INSTALLATION AND IN EXCESS OF 45 AFTER A PERIOD OF 30 MONTHS.



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ORLANDO ROAD



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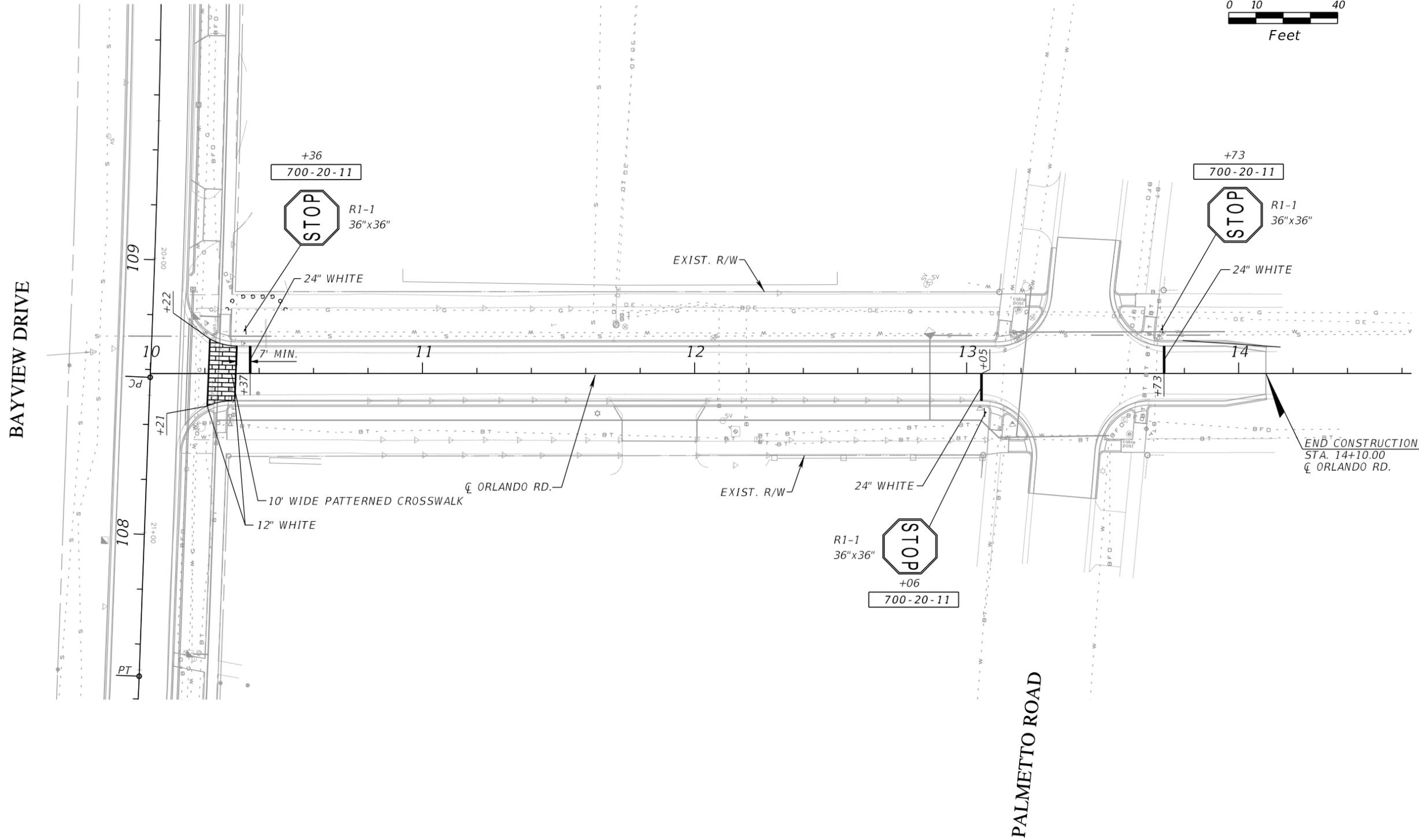
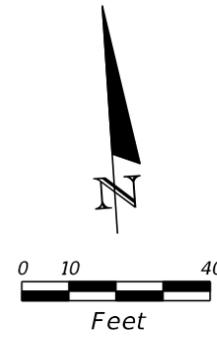
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SHEET TITLE

SIGNING &
PAVEMENT MARKING
PLAN SHEET (1)
ORLANDO ROAD

SHEET NUMBER

111



SARASOTA ROAD



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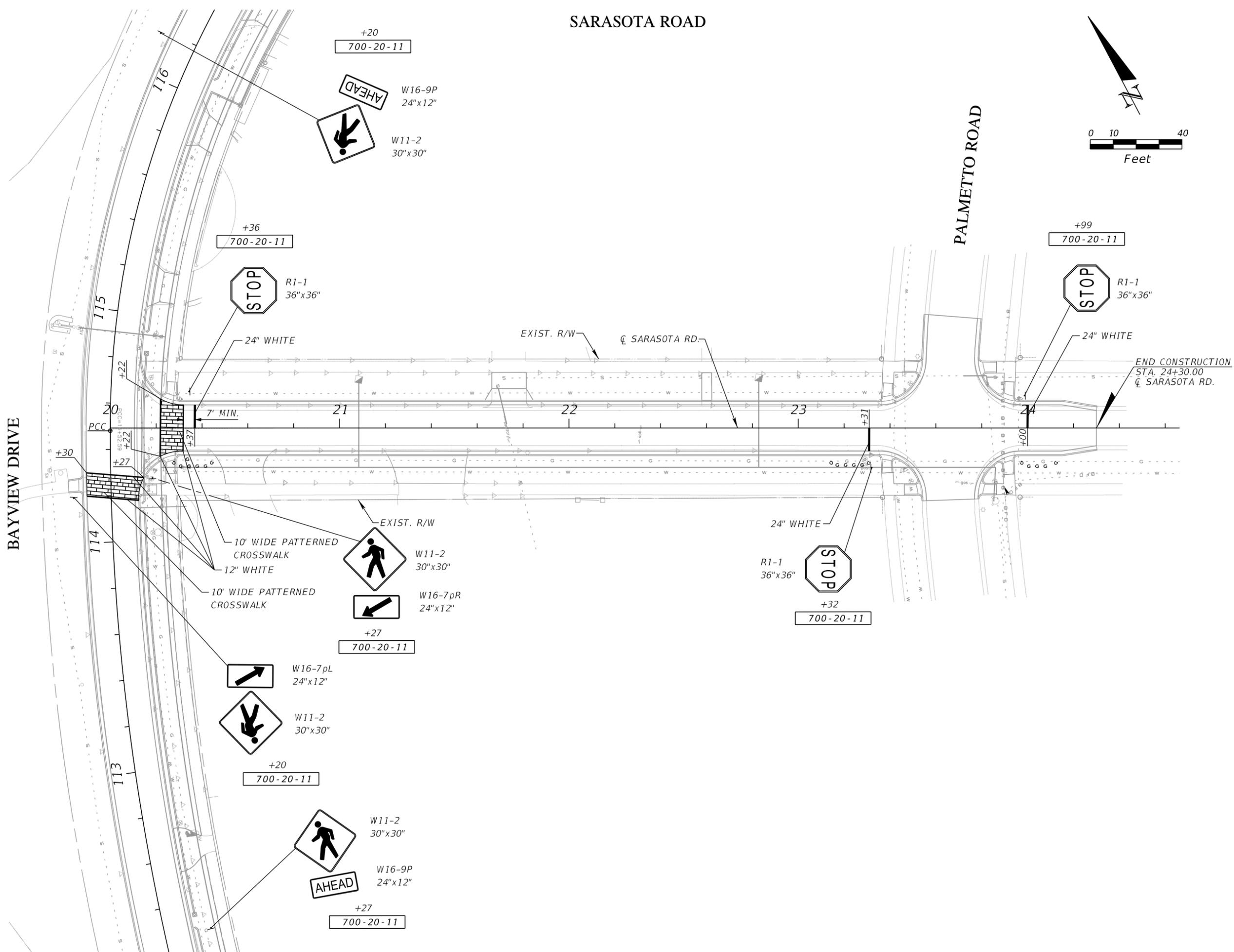
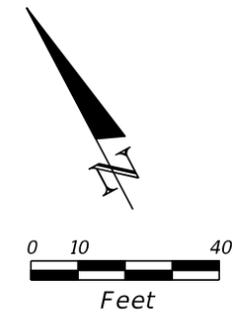
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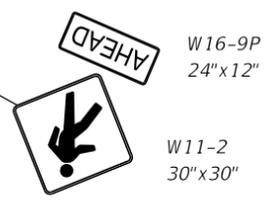
SIGNING &
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PLAN SHEET (2)
SARASOTA ROAD

SHEET NUMBER

112



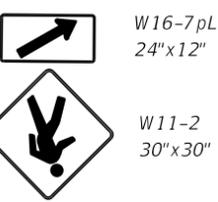
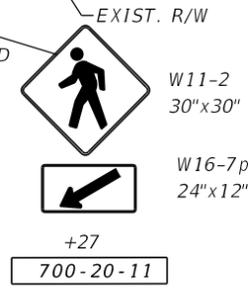
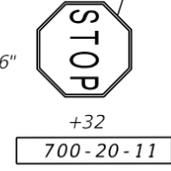
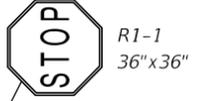
+20
700-20-11



+36
700-20-11



+99
700-20-11



+20
700-20-11



+27
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OCALA ROAD



RS&H, Inc.
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 EB0005620 LCC000210



TOWN OF BELLEAIR
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BAYVIEW DRIVE STREET AND DRAINAGE IMPROVEMENTS

SUB-CONSULTANTS

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APPROVED BY:

JEREMY LEUSCHKE, P.E.
 FLA. REG. NO. 69203
 DATE: _____

REVISIONS

NO.	DESCRIPTION	DATE

DATE ISSUED:

REVIEWED BY: BWB

DRAWN BY: VES

DESIGNED BY: VES

HORIZONTAL SCALE:

VERTICAL SCALE:

AEP NO.: 104-2881-001

SHEET TITLE
 SIGNING &
 PAVEMENT MARKING
 PLAN SHEET (3)
 Ocala Road

SHEET NUMBER

113

