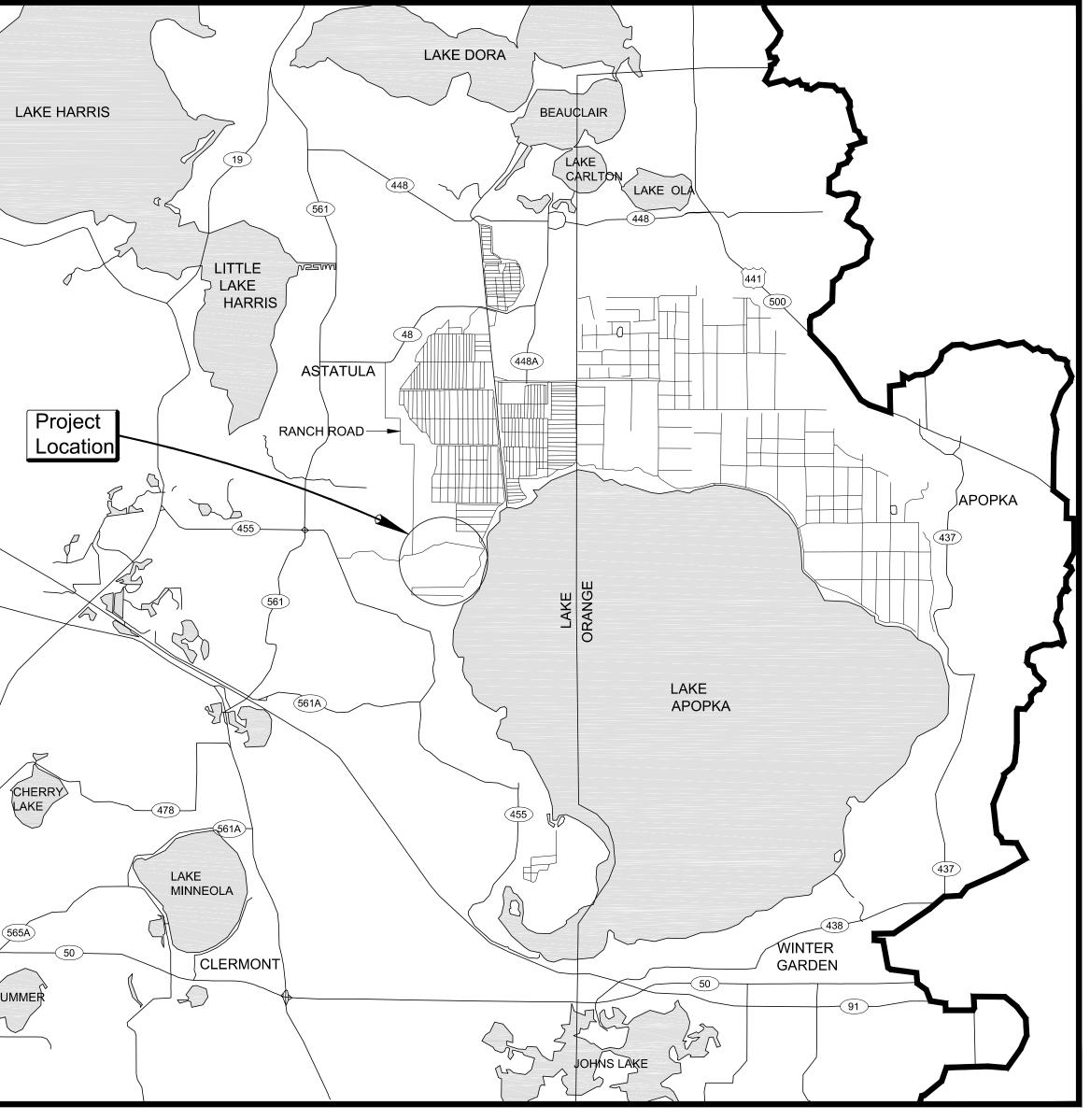
ST. JOHNS RIVER WATER MANAGEMENT DISTRICT APOPKA MARSH FLOW-WAY **10-PACK STRUCTURES A & B REHAB** LAKE COUNTY, FLORIDA LAKE DOR LAKE HARRIS LAKE OL LITTLE HARRIS ASTATULA Project RANCH ROAD Locatior GULF APOPKA D (455) LOCATION MAP Not to Scale LAKE APOPKA (561A) CHERRY LAKE MINNEOLA WINTER CLERMONT GARDEN SUMMER VICINITY MAP





	Sheet List Table
Sheet Number	Sheet Title
C1	COVER SHEET & VICINITY MAP
C2	OVERALL SITE PLAN
C3	SITE PLAN - STRUCTURE A
C4	PLAN & SECTION - STRUCTURE A
C5	SITE PLAN - STRUCTURE B
S1	WALKWAY PLAN AND ELEVATION
S2	WALKWAY DETAILS

FOR BID PURPOSES ONLY **NOT FOR CONSTRUCTION**

CERTIFICATION: RAWING FILENAME SHEET: ROYCE CLIFTON GANDY P.E. NUMBER:

DATE: .

10-PACKS REHAB.dwg

23017 MARCH 8, 2017

C1

BM SJRWMD 00-12-022-0 ELEVATION = 66.607' NAVD (88) FT.

RANCH ROAD

STRUCTURE A

REVISION

NOTES: 1. ALL ELEVATIONS SHOWN HERE ON ARE REFERENCED TO NAVD(88) FT. 2. ALL COORDINATES SHOWN HERE ON ARE REFERENCED TO HPGN AND PROJECTED TO FLORIDA ZONE (901) EAST.

BY DATE APPROVED DATE

APOPKA MARSH FLOW-WAY 10-PACK STRUCTURES A & B REHAB LAKE COUNTY, FLORIDA

TOPOGRAPHIC SURVEY A PARCEL OF LAND LOCATED IN SECTION 15, TOWNSHIP 21 SOUTH, RANGE 26 EAST, LAKE COUNTY, FLORIDA.

OVERVIEW

STRUCTURE B

R	WATER	ST. JOHNS RIVE MANAGEMENT P.O. BOX 1429 PALATKA, FLOR	DISTRICT
DRAWN:		DATE:MARCH 8, 2017	REVIEWER:
SCALE:	AS NOTED	DESIGNER: RCG	SECTION CHIEF:



TOPOGRAPHIC SURVEY A PARCEL OF LAND LOCATED IN SECTION 15, TOWNSHIP 21 SOUTH, RANGE 26 EAST, LAKE COUNTY, FLORIDA.

NOTE: ALL PIPES IN STRUCTURE "A" ARE 54" C.M.P. AS PER ENGINEER, AND NOT FIELD MEASURED (PIPES UNDERWATER)

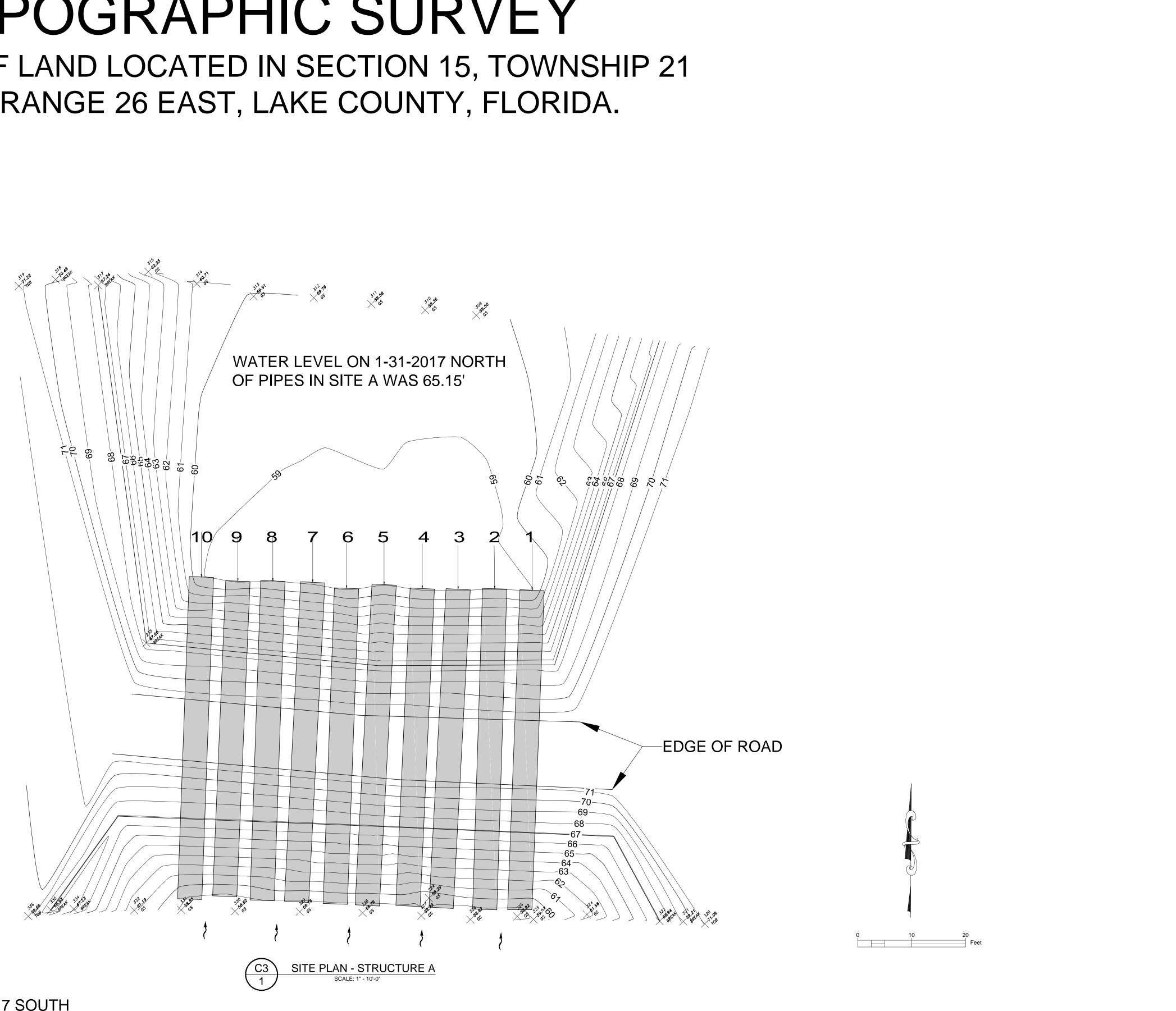
PIPE ELEVATIONS AND LENGTHS NAVD (88) FT				
PIPE #	LENGTH	TOP OF PIPE (SOUTH)	TOP OF PIPE (NORTH)	
1	59.26	63.31	63.44	
2	59.53	63.37	63.43	
3	59.18	63.36	63.36	
4	58.95	63.36	63.33	
5	58.95	63.24	63.42	
6	58.59	63.38	63.32	
7	59.36	63.31	63.25	
8	59.30	63.46	63.51	
9	58.52	63.26	63.37	
10	59.81	63.31	63.59	

BY DATE APPROVED DATE



APOPKA MARSH FLOW-WAY 10-PACK STRUCTURES A & B REHAB LAKE COUNTY, FLORIDA

REVISION



NOTE: SEE C4 FOR MORE DETAIL

SR WATER	ST. JOHNS RIVI MANAGEMENT	
	P.O. BOX 1429 PALATKA, FLOF	
DRAWN:	DATE:MARCH 8, 2017	REVIEWER:
SCALE:1" = 10' - 0"	DESIGNER:RCG	SECTION CHIEF:

FOR BID PURPOSES ONLY **NOT FOR CONSTRUCTION**

SITE PLAN - STRUCTURE A

CERTIFICATION: ROYCE CLIFTON GANDY

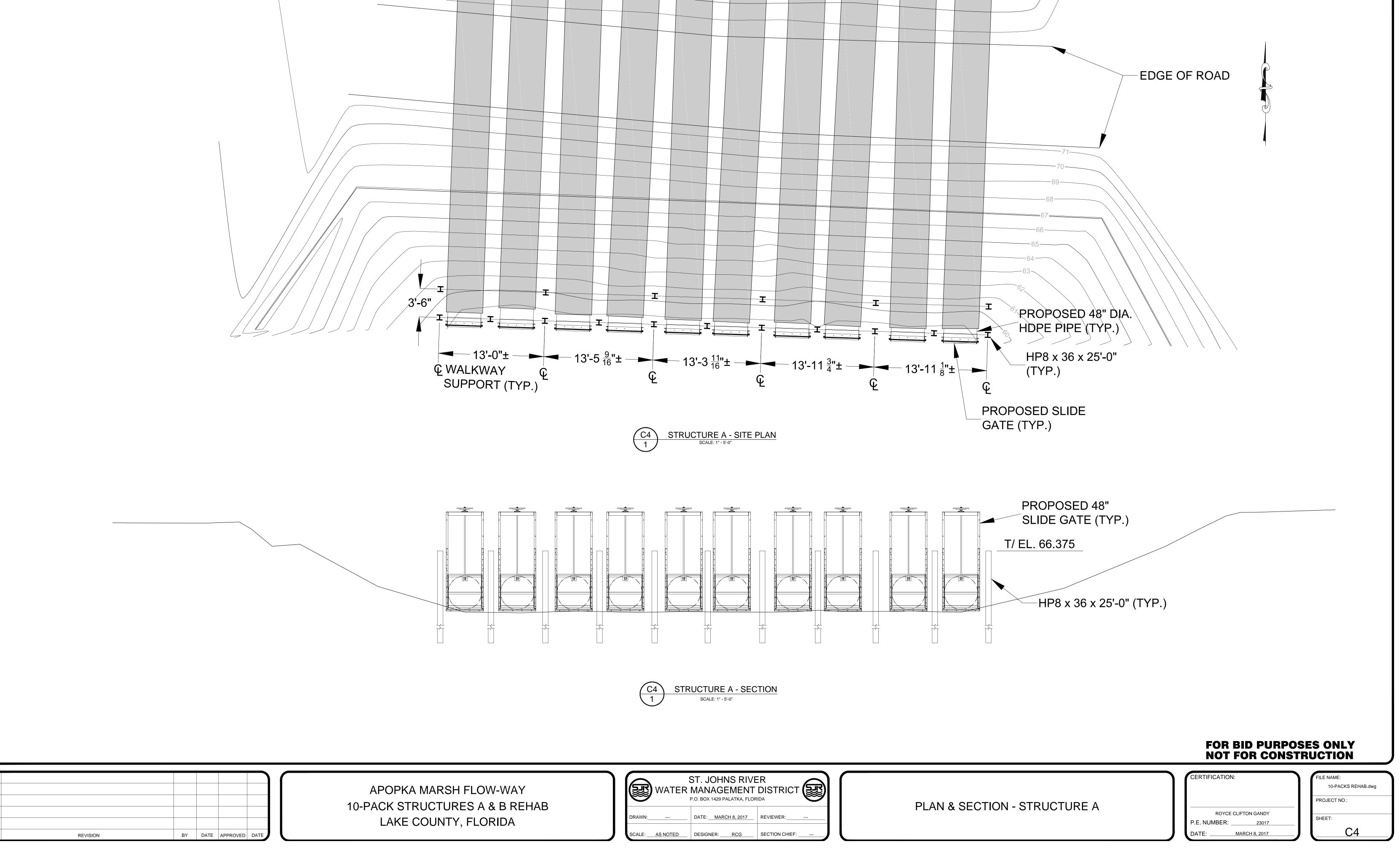
P.E. NUMBER: _ 23017 MARCH 8, 2017 DATE:

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SHEET:

PROJECT NO .:

C3



	ST. JOHNS RIV	
WATEI	P.O. BOX 1429 PALATKA, FLOI	
DRAWN:	DATE: <u>MARCH 8, 2017</u>	REVIEWER:
SCALE: AS NOTED	DESIGNER: RCG	SECTION CHIEF:

TOPOGRAPHIC SURVEY A PARCEL OF LAND LOCATED IN SECTION 15, TOWNSHIP 21 SOUTH, RANGE 26 EAST, LAKE COUNTY, FLORIDA.

NOTE: ALL PIPES IN STRUCTURE "B" ARE 54" C.M.P.

36² 31

56³.56

PIPE ELEVATIONS AND LENGTHS NAVD (88) FT

36⁰.2⁰

PIPE #	LENGTH	TOP OF PIPE (EAST)	PIPE INVERT (EAST)	TOP OF PIPE (WEST)	PIPE INVERT (WEST)
1	70.19	63.13	58.63	63.62	59.12
2	70.28	63.31	58.81	63.77	59.27
3	69.67	63.17	58.67	63.49	58.99
4	70.16	63.14	58.64	63.54	59.04
5	70.67	63.28	58.78	63.41	58.91
6	70.43	63.31	58.81	63.42	58.92
7	70.73	63.29	58.79	63.52	59.02
8	70.45	63.22	58.72	63.40	58.90
9	70.66	63.16	58.66	63.24	58.74
10	65.90	63.36	58.86	63.31	58.81

APOPKA MARSH FLOW-WAY 10-PACK STRUCTURES A & B REHAB LAKE COUNTY, FLORIDA

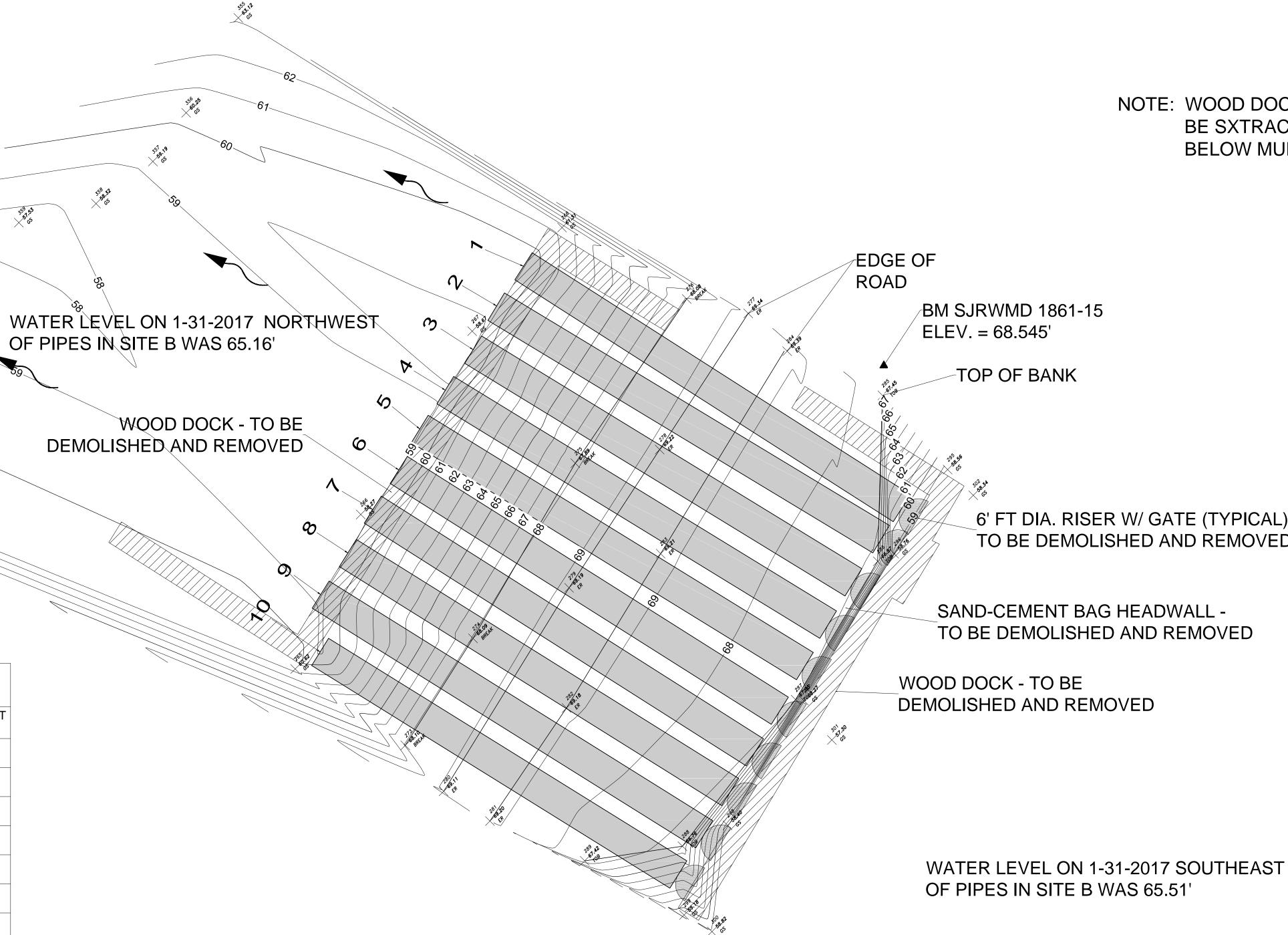
351 .9 59.5

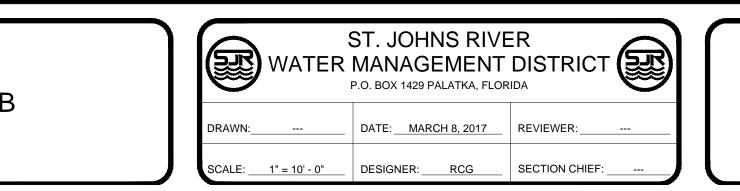
35⁸ 3

55⁵1.53

REVISION

BY DATE APPROVED DATE





NOTE: WOOD DOCK SUPPORT PILES TO BE SXTRACTED OR CUT OFF AT OR **BELOW MUD LINE.**

/BM SJRWMD 1861-15

TOP OF BANK

6' FT DIA. RISER W/ GATE (TYPICAL) -TO BE DEMOLISHED AND REMOVED

SAND-CEMENT BAG HEADWALL -TO BE DEMOLISHED AND REMOVED

DEMOLISHED AND REMOVED

FOR BID PURPOSES ONLY **NOT FOR CONSTRUCTION**

CERTIFICATION: ROYCE CLIFTON GANDY P.E. NUMBER: 23017 MARCH 8, 2017 DATE:

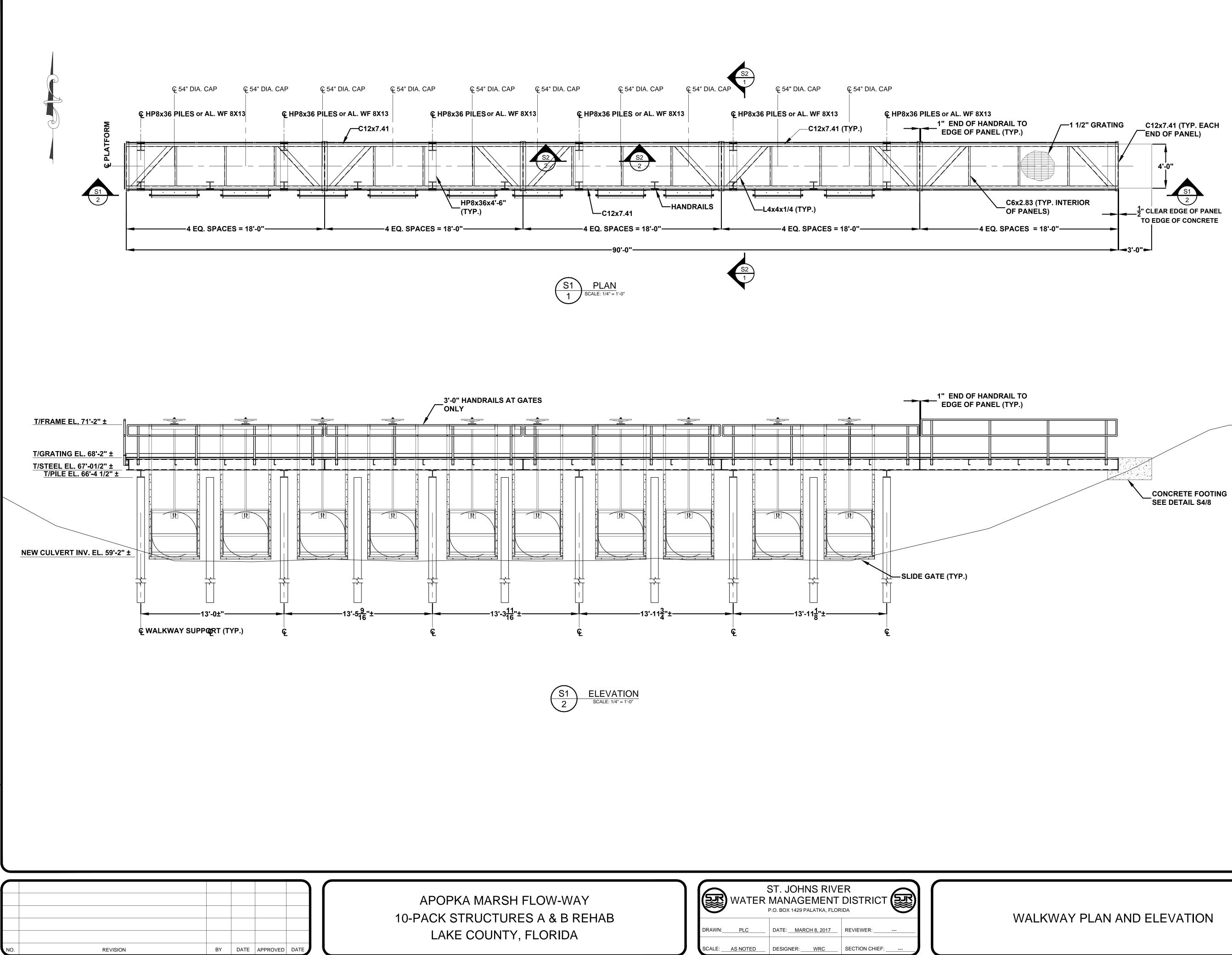
ILE NAME: 10-PACKS REHAB.dwg

PROJECT NO .:

SHEET:

SITE PLAN - STRUCTURE B

C5



R		ST. JOHI MANAGI		ER DISTRICT	S R
		P.O. BOX 1429 P			
DRAWN:	PLC	DATE: MAR	CH 8, 2017	REVIEWER:	
SCALE:	AS NOTED	DESIGNER:	WRC	SECTION CHIEF:	

NOTE SPECIFICATIONS:

CONCRETE:

- 1. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION, SECTION 400 WITH SUPPLEMENTS AND ALL PERTINENT SPECIFICATIONS CONTAINED THEREIN.
- 2. ALL CONCRETE SHALL BE FDOT CLASS I WITH A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 3000 PSI. PORTLAND CEMENT SHALL BE TYPE II IN ACCORDANCE WITH ASTM C-150. THE AGGREGATES SHALL CONFORM TO ASTM C-33 AND SHALL HAVE A 3/4-INCH MAXIMUM SIZE.
- 3. REINFORCING STEEL SHALL BE GRADE 60 DEFORMED BILLET STEEL BARS CONFORMING TO ASTM A-615.
- 4. THE MINIMUM CLEAR CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES FOR CONCRETE CAST AGAINST EARTH AND 2 INCHES ELSEWHERE, UNLESS OTHERWISE NOTED.
- 5. CONCRETE ANCHORS SHALL UTILIZE THE HILTI HIT-RE 500-SD EPOXY ADHESIVE ANCHORING SYSTEM, OR EQUAL. THREADED ANCHOR RODS, SHALL BE ³/₄" DIA. X 8-1/2" LONG HAS-R 316 STAINLESS STEEL WITH A MINIMUM EMBEDMENT DEPTH OF 6-3/4". NUTS AND WASHERS SHALL ALSO BE SS-316.

STRUCTURAL STEEL:

- 1. STRUCTURAL STEEL DESIGN, FABRICATION, AND ERECTION SHALL BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", LATEST EDITION.
- 2. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE NEW AND CONFORM TO THE REQUIREMENTS OF THE AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM) STANDARD A36 UNLESS NOTED OTHERWISE.
- 3. BOLTS SHALL BE STAINLESS STEEL CONFORMING TO ASTM F593, TYPE 316. SIZE OF BOLT SHALL ³/₄-INCH MINIMUM UNLESS NOTED OTHERWISE.
- 4. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING CODE" AWS D1.1. ALL WELDING SHALL UTILIZE E70XX ELECTRODES UNLESS NOTED OTHERWISE.

PAINTS AND PROTECTIVE COATINGS:

- 1. ALL STEEL SHALL BE PRIMED AND PAINTED IN ACCORDANCE WITH THE STEEL STRUCTURES PAINTING COUNCIL (SSPC) "STEEL STRUCTURES PAINTING MANUAL" STEEL SURFACE PREPARATION SHALL BE SSPC-10 NEAR WHITE BLAST CLEANING
- 2. PROTECTIVE COATING FOR STRUCTURAL STEEL SHALL BE AS MANUFACTURED BY SHERWIN-WILLIAMS, OR EQUAL, AS FOLLOWS:

FIRST COAT (PRIMER): DURA-PLATE 235, 4-8 MILS DFT SECOND COAT: DURA-PLATE 235, 4-8 MILS DFT THIRD (FINAL) COAT: DURA-PLATE 235, 4-8 MILS DFT COLOR: LIGHT GRAY

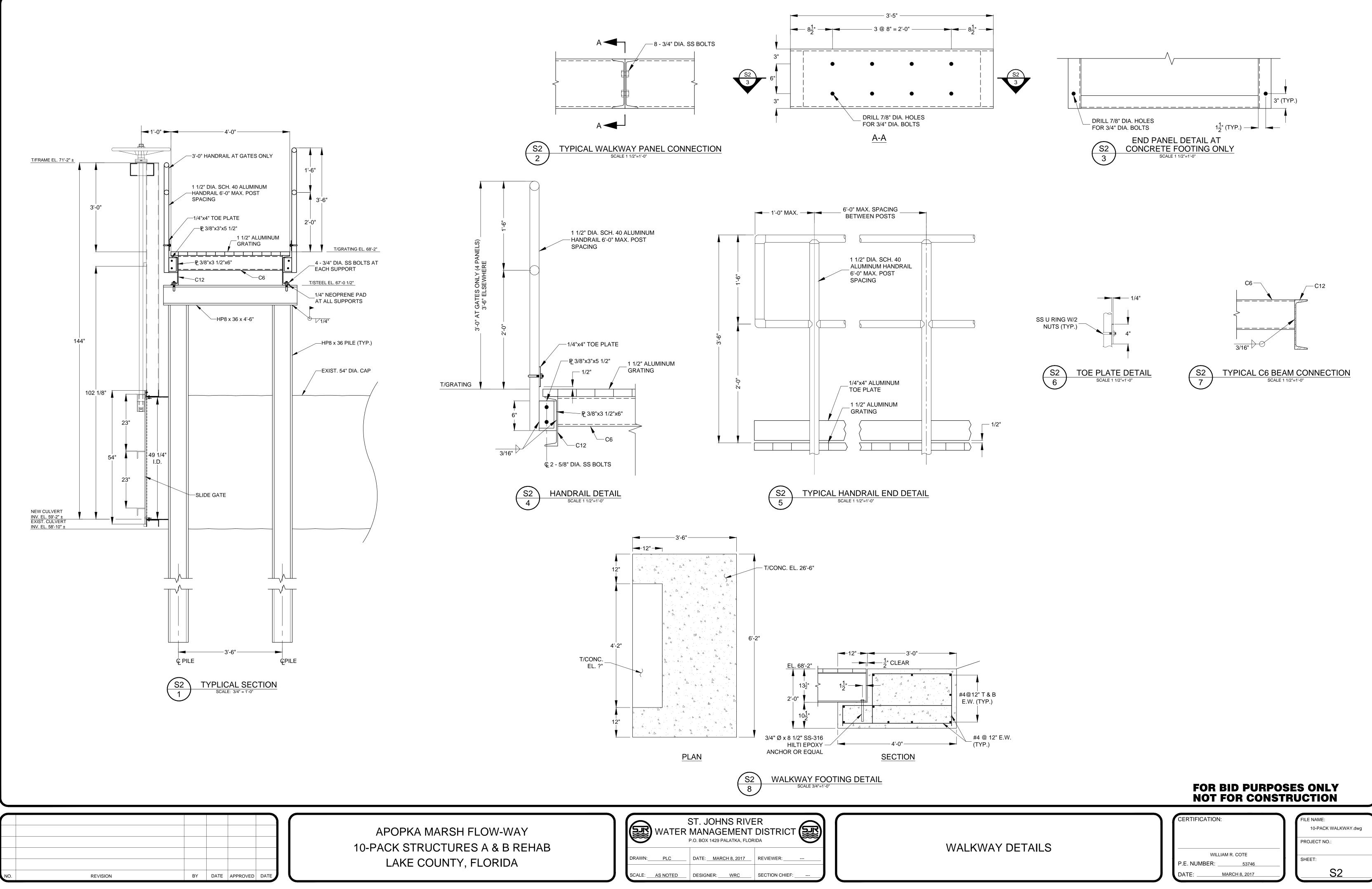
SURFACE PREPARATION AND APPLICATION SHALL BE IN ACCORDANCE WITH THE PAINT MANUFACTURER SPECIFICATIONS.

STRUCTURAL ALUMINUM:

- 1. STRUCTURAL ALUMINUM DESIGN AND FABRICATION SHALL BE IN ACCORDANCE WITH THE ALUMINUM ASSOCIATION, INC. "SPECIFICATIONS FOR ALUMINUM STRUCTURES", LATEST EDITION.
- 2. WELDING SHALL BE IN ACCORDANCE WITH THE AMERICAN WELDING SOCIETY (AWS) "STRUCTURAL WELDING CODE - ALUMINUM" AWS D1.2.
- 3. ALUMINUM STRUCTURAL SHAPES SHALL BE NEW AND CONSIST OF ALLOY 6061-T6 CONFORMING TO THE REQUIREMENTS OF THE AMERICAN SOCIETY OF TESTING AND MATERIALS (ASTM) STANDARD B308.
- 4. ALUMINUM BARS, RODS, AND WIRE SHALL BE NEW AND CONSIST OF ALLOY 6061-T6 CONFORMING TO THE REQUIREMENTS OF ASTM STANDARD B211.
- 5. ALUMINUM PLATE SHALL BE NEW AND CONSIST OF ALLOY 5052-H32 CONFORMING TO THE REQUIREMENTS OF ASTM STANDARD B209.
- 6. ALL BOLTS, NUTS, AND WASHERS SHALL CONSIST OF SS316 STAINLESS STEEL CONFORMING TO THE REQUIREMENTS OF ASTM STANDARDS F593 AND F594.
- 7. ALL WELDING SHALL UTILIZE ER4043 FILLER ALLOY AND SHALL BE SHOP WELDED TO THE GREATEST EXTENT POSSIBLE.
- 8. THE MINIMUM THICKNESS OF ALL CONNECTION ANGLES AND GUSSET PLATES SHALL BE ¹/₄-INCH UNLESS NOTED OTHERWISE.
- 9. FIELD CORRECTING OF FABRICATED COMPONENTS SHALL NOT BE PERMITTED ON STRUCTURAL MEMBERS WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- 10. ALUMINUM GRATING SHALL BE RECTANGULAR BAR TYPE (SERRATED), SWAGE-LOCKED, AND CONSIST OF ALUMINUM ALLOY 6063—T6. THE BEARING BARS SHALL BE 1-1/2" X 3/16" AT 1-3/16" ON CENTER. RECTANGULAR CROSS BARS SHALL BE 4" ON CENTER.
- 11. THE HANDRAIL POSTS AND RAILS SHALL BE 1-1/2 INCH DIAMETER SCHEDULE 40 PIPE FORMED FROM EXTRUDED 6063-T6 ALUMINUM EXCEPT THAT FORMED ELBOWS SHALL BE 6063-T4 ALUMINUM. THE MAXIMUM POST SPACING SHALL BE 6'-0" CENTER TO CENTER.
- 12. THE STRUCTURES ARE DESIGNED AS STABLE UNITS AFTER ALL COMPONENTS, INCLUDING BRACING, ARE IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY BRACING AS REQUIRED TO ENSURE THE VERTICAL AND LATERAL STABILITY OF THE ENTIRE STRUCTURE OR ANY PORTION THEREOF DURING CONSTRUCTION.

FOR BID PURPOSES ONLY **NOT FOR CONSTRUCTION**

PLAN AND ELEVATION	CERTIFICATION:	FILE NAME: 10-PACK WALKWAY.dwg PROJECT NO.:
PLAN AND ELEVATION	WILLIAM R. COTE P.E. NUMBER: 53746 DATE: MARCH 8, 2017	SHEET: S1



CERTIFICATION	J:
WIL	LIAM R. COTE
P.E. NUMBER:	53746
DATE:	MARCH 8, 2017

1	FILE NAME:
	10-PACK WALKWAY.dwg
	PROJECT NO.:
	SHEET