N

GRAPHIC SCALE
0 30 60 120
(IN FEET)

6" PVC BOLLARD FILLED W/ CONCRETE EXTEND 6 FT. INTO BOTTOM AND 4 FT. ABOVE WATER LEVEL 6' O.C. PAINTED BRIGHT YELLOW

CONCRETE RUBBLE RIP-RAP TO MATCH EXISTING CANAL RIP-RAP (1 D-3)

EXISTING LOCK & DAM

TO LAKE BEAUCLAIR

FLOATING TURBIDITY BARRIER (2 D-1)

APOPKA-BEAUCLAIR CANAL

FROM LAKE APOPKA

S-12
~~60~~ 61 LF CONC. ENDWALL
W/ 5/8" VERTICAL ALUMINUM INSERT GUIDES @ 2 FT. O.C. OVER CULVERT OPENINGS
TOP EL. ~~67.0~~ 66.92 ASB
INV. EL. 58.0
N ~~1596420.11~~ 1596416.70
E ~~436524.16~~ 436516.11
84
90 LF DOUBLE 8'x6' CONC. BOX CULVERT

S-11
~~60~~ 61 LF CONC. ENDWALL
TOP EL. ~~67.0~~ 66.90 ASB
INV. EL. 58.0 ~~58.01~~
~~1596447.12~~ N 1596435.77
~~436435.75~~ E 436428.21

1 D-3 CONC. RUBBLE RIP-RAP

CR 48

MATCH EXISTING GRADE

S-10
32 LF CONC. ENDWALL
TOP EL. 68.00
INV. 58.00
5 D-2 W/ DEPTH SENSOR MOUNTED TO WALL
1596431.74 N
436235.22 E

5 D-2 SUBMERSIBLE pH PUMP

1 D-3 CONC. RUBBLE RIP-RAP

OUTFLOW CANAL
TOB EL. 68.00
BOT. EL. 58.00
SODDED SLOPES 2H:1V
20 FT. MAINTENANCE BERM
SODDED

S-8
32 LF CONC. ENDWALL
TOP EL. ~~68.00~~ 67.90
INV. 58.00
1596392.42 N
435877.38 E

40 LF 24" HDPE @ 0.50%

S-14
TYPE 'E' INLET
GRT. 67.50
INV. 62.20
1596463.56 N
435846.40 E

3 D-3 MES, INV. 62.00
1596419.36 N
435865.64 E

STAKED SILT FENCE (4 D-1)

CONC. RUBBLE RIP-RAP (1 D-3)

2" PVC ELECTRICAL CONDUIT AND WIRING FOR FLOW MEASUREMENT

STAKED SILT FENCE (4 D-1)

R50'

1 CS-1

1596420.99 N
436357.13 E

LEVEL & Ph TRANSMITTERS (7 D-2)

N 1596376.76
E 436412.29

N 1596371.29
E 436362.59

S-9
37 LF CONC. ENDWALL
W/ MOTORIZED SS WEIR GATE (EL. 64.0 TO EL. 58.0) (8 D-3)
TOP EL. 68.00
INV. EL. 58.00
BOT. EL. 50.00
N 1596378.06 ~~1596375.44~~
E 436241.12 ~~436240.72~~

CONC. RUBBLE RIP-RAP (1 D-3)

54 LF 8'x6' CONC. BOX CULVERT (5 D-3)

2" PVC ELECTRICAL CONDUIT AND WIRING FOR WEIR GATE MOTOR

N 1596394.78
E 436118.56

N 1596345.08
E 436124.02

N 1596339.61
E 436074.32

R50'

MATCH EXISTING GRADE

1596381.67 N
435999.28 E

N 1596337.43
E 436054.44

N 1596331.97
E 436004.74

S-7
37 LF CONC. ENDWALL
W/ MOTORIZED SS WEIR GATE (EL. 64.0 TO EL. 58.0) (8 D-3)
TOP EL. 68.00
INV. EL. 58.00
BOT. EL. 50.00
N ~~1596338.74~~ 1596335.5
E 435883.28 ~~435878.10~~

CONC. RUBBLE RIP-RAP (1 D-3)

54 LF 8'x6' CONC. BOX CULVERT (5 D-3)

N 1596411.96
E 435863.16

2" PVC ELECTRICAL CONDUIT AND WIRING FOR WEIR GATE MOTOR

R25

1596355.45 N
435760.72 E

N 1596305.75
E 435766.18

N 1596300.29
E 435716.48

R50'

MATCH EXISTING GRADE

4" PVC ELECTRICAL CONDUIT AND WIRING

R45'

FLOC SETTLING POND No. 1
TOB EL. 68.00
BOT. EL. 50.00
SLOPES 3H:1V,
EL. 68.00 TO EL. 62.00
2H:1V, EL. 62.00 TO EL. 50.00
20 FT. MAINTENANCE BERMS
SOD TO EL. 63.00

DREDGE CONTROL PANEL 5'x5'x6" CONC. PAD (TYP.)

DREDGE DISCHARGE STRUCTURE (TYP.)
2-6" PLUG VALVE W/ HANDWHEEL, 5'x5'x6" CONC. PAD

6" PVC DREDGE DISCHARGE LINE (SCH 80)

3" PVC ELECTRICAL CONDUIT AND WIRING FOR DREDGE CONTROL PANELS

FLOATING DREDGE DISCHARGE LINE AND POWER CABLE (TYP.)

FLOC SETTLING POND No. 2
TOB EL. 68.00
BOT. EL. 50.00
SLOPES 3H:1V,
EL. 68.00 TO EL. 62.00
2H:1V, EL. 62.00 TO EL. 50.00
20 FT. MAINTENANCE BERMS
SOD TO EL. 63.00

S-21
OUTFALL CONTROLE STRUCTURE
MOD. TYPE 'E' INLET (7 D-3)
GRT. ~~66.76~~
INV. ~~62.20~~ 62.18 ASB
2" ORIFICE INV. 65.75
1595848.98 N
435735.29 E

MES, INV. 62.00
N 1595854.29
E 435783.60 (3 D-3)

S-14
TYPE 'E' INLET
GRT. 67.50
INV. 63.82
1595566.99 N
435774.84 E
See Sh C-7

1595565.64 N
436501.43 E

1595560.18 N
436451.73 E

1595510.48 N
436457.20 E

REMOTE CONTROL DREDGE (TYP.)

DREDGE RAIL TRAVERSE SYSTEM (TYP.)

DREDGE CABLE TRAVERSE SYSTEM (TYP.)

1 D-3 CONC. RUBBLE RIP-RAP

S-4
30 LF CONC. ENDWALL
TOP EL. ~~68.00~~ 67.50
INV. 60.00 ~~59.50~~
W/ DEPTH SENSOR MOUNTED TO WALL
1595504.82 N
436337.09 E

1595533.96 N
436213.17 E

1595526.50 N
436163.47 E

1595526.31 N
436143.59 E

1595520.85 N
436093.89 E

1595471.15 N
436099.35 E

S-6
30 LF CONC. ENDWALL
TOP EL. ~~68.00~~ 67.95
INV. 60.00 ~~59.80~~
W/ DEPTH SENSOR MOUNTED TO WALL
1595465.50 N
435979.25 E
~~1595469.01~~
~~435978.87~~

2 D-3 TYPE 'E' INLET

3 D-3 MES, INV. ~~60.00~~ 58.25
N ~~1595472.16~~ 1595473.81
E ~~435925.48~~ 435910.12

FIRE MAIN INTAKE
TOP PIPE EL= 59.80

1595415.96 N
435972.47 E

1595494.63 N
435855.32 E

R50'

R21'

S-1
45 LF CONC. ENDWALL
W/ 5/8" VERTICAL ALUMINUM INSERT GUIDES @ 2 FT. O.C. OVER CULVERT OPENINGS
TOP EL. 71.00 70.80
INV. ~~60.00~~ 59.90
N 1595503.99
E 436773.21 ~~436776.49~~

CONC. RUBBLE RIP-RAP (1 D-3)

~~40~~ 41 LF DOUBLE 8'x6' CONC. BOX CULVERT

POINT OF ALUM ADDITION (4 D-2)

POINT OF AIR ADDITION (9 D-2)

S-2
45 LF CONC. ENDWALL
TOP EL. 68.00
INV. ~~60.00~~ 59.90
N 1595500.74 ~~1595499.53~~
E 436743.66 ~~436734.37~~

2" PE AIR LINE (SOCKET FUSION)

2"x 4" DBL. WALL HDPE ALUM FEED LINE (BUTT FUSION)

INFLOW CANAL
TOB EL. 68.00
BOT. EL. 60.00
SODDED SLOPES 2H:1V
20 FT. MAINTENANCE BERMS
SODDED

LEVEL TRANSMITTER (8 D-2)

4" PVC ELECTRICAL CONDUIT AND WIRING FOR SLUICE GATE MOTORS AND DREDGE CONTROL PANELS

MATCH EXISTING GRADE

2 CS-1

S-3
30 LF CONC. ENDWALL
W/ MOTORIZED SS SLUICE GATE (EL. 66.0 TO EL. 60.0) (9 D-3)
TOP EL. ~~68.00~~ 67.50
INV. EL. 60.00 ~~59.80~~
N 1595472.02
E 436340.70

STAKED SILT FENCE (4 D-1)

32 LF 8'x6' CONC. BOX CULVERT (5 D-3)

N 1595488.26
E 436218.63

14' WIDE CRUSHED CONC. ACCESS DRIVE

CONC. ELECTRICAL PULL BOX (TYP.)

6" PVC DREDGE DISCHARGE LINE

2" PVC ELECTRICAL CONDUIT AND WIRING FOR SLUICE GATE MOTOR

4" PVC ELECTRICAL CONDUIT AND WIRING FOR FLOC DEWATERING FACILITY

10" PVC DRAIN LINE @ 0.66% SLOPE

S-22 (10 D-3)
TYPE 'C' INLET
GRT. ~~66.50~~ 66.25
INV. ~~64.50~~ 64.25

30 LF 12" HDPE @ 0%

S-23 (10 D-3)
TYPE 'C' INLET
GRT. ~~66.50~~ 66.25
INV. ~~64.50~~ 64.25

S-5
30 LF CONC. ENDWALL
W/ MOTORIZED SS SLUICE GATE (EL. 66.0 TO EL. 60.0)
TOP EL. 68.00
INV. EL. 60.00 (9 D-3)
~~N 1595432.70~~
~~E 435982.85~~
N 1595434.48
E 435982.98

CONC. RUBBLE RIP-RAP (1 D-3)

DRY HYDRANT (6 D-3)
N 1595381.29
E 435936.66

6" DIP FIRE MAIN

4" PVC ELECTRICAL CONDUIT AND WIRING FOR FLOC DEWATERING FACILITY

2" PE AIR LINE (SOCKET FUSION)
2"x 4" DBL. WALL HDPE ALUM FEED LINE (BUTT FUSION)

N 1595444.93
E 435860.79

N 1595489.17
E 435805.62

STAKED SILT FENCE (4 D-1)

S-13 (2 D-3)
TYPE 'E' INLET
GRT. 67.50
INV. 64.00 N
65.00 W.
N 1595506.35
E 435768.58

61 LF 18" HDPE @ 0.29%

110 LF 18" HDPE @ 0.29%

MES, INV. 63.50
N 1595668.18
E 435732.22 (3 D-3)

49 LF 18" HDPE 0.41%

MATCH LINE - SEE SHEET C-3

MATCH LINE - SEE SHEET C-4

AS-BUILT
GIBBS & REGISTER, INC.
BY: MD DATE: 2/7/08

DESIGNED BY:	J. L. HERR
DRAWN BY:	L. E. HEIGHT
CHECKED BY:	H. H. HARPER
APPROVED BY:	H. H. HARPER
DATE: May., 2007	SCALE: 1"=60'

REV.	DATE	DESCRIPTION	APP'D. BY
1	2/20/07	PER. BUILDING DEPT. COMMENTS	HHH
2	5/9/07	REMOVED UNNECESSARY ANNOTATIONS	HHH
		ADDED ELEC. CONDUIT TO FLOW MEASUREMENT AREA	HHH
		CHANGED ENDWALL TO MITERED END SECTION ON 10" DRAIN	HHH
		MODIFIED CANAL RIP-RAP NOTE	HHH

ERD Environmental Research & Design, Inc.
EB# 6244 Water Quality Engineering
3419 Trentwood Blvd ◦ Suite 102 ◦ Orlando, Florida 32812
Phone: 407.855.9465 ◦ www.ERD.org ◦ Fax: 407.826.0419

APOPKA - BEAUCLAIR CANAL OFF-LINE NUTRIENT REDUCTION FACILITY

LAKE COUNTY, FLORIDA

TREATMENT SYSTEM SITE LAYOUT PLAN

HARVEY H. HARPER, P.E.
PROFESSIONAL ENGINEER NO. 32595
STATE OF FLORIDA

PROJECT No. 04-007

C-2

SHEET 5 OF 40

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Fri, 24 Aug 2007 - 11:38am