Cyrils Drive Widening - Narcoossee Road to Absher Road

Master Drainage Plan and Flood Study in Support of Cyrils Drive 60% Plans Submittal

Osceola County, Florida

Prepared for:

Tavistock East Services, LLC
6900 Tavistock Lakes Blvd, Suite 200
Orlando, FL 32827

Date:
September 2021

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FBPE Certificate of Authorization No. 28567

Christina M. Baxter P.E.
Florida P.E. 67547
Date: March 6, 2021

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SECTION 1

NARRATIVE AND SUMMARY OF RESULTS:

The Cyrils Drive widening project proposes 10,343.99 feet of Cyrils Drive road improvement with associated stormwater management system. Cyrils Drive is located east of fells cove in Osceola County, see Location MapExhibit 1. This Report provides exhibits and calculations in support of the roadway Stormwater pond water quality treatment and water quantity attenuation, floodplain impacts and compensation, analysis of the roadway crossing of the south Lake Ajay wetlands connecting to Lake Ajay to the north and overall pre-development vs. post-development analysis for the roadway basins and offsite contributing basins. More specific discussion of the basins is included below.

SPECIFIC BASIN SUMMARIES:

The majority of this drainage study is within the Lake Hart Basin, which discharges via Lake Ajay to East Lake Tohopekaliga Basin, however, a portion of the area is within the Sunbridge Flood Study that drains south to the NED Basin as indicated in the LOMR .

POND E-1:

The current permitted Cyrils Intersection design includes a portion of the Cyrils widening. Treatment, attenuation and compensating storage is currently permitted in Pond E-1 located NE of that intersection (SFWMD application No. 200622-3730). Pond E-1 recovers and discharges via the modified existing structure to the permitted tailwater for MH-118, which is northwest of the Pond E-1. The Pond E-1 discharge travels west then north to the discharge point on Narcoossee. Pond E-1 has an additional control structure designed to discharge only during the 100 year event to the east towards Lake Ajay North (Note: previous modeling direction set the current receiving body Lake Ajay North tailwater set 0.6' higher than the emergency discharge weir structure top).

The proposed Cyril widening requires an additional 0.98-Acre of roadway beyond the permitted storm water calculations mentioned in the above permit. The current weir design for E-1 is able to provide treatment for the additional area but fails compensating storage. Therefore, this project proposes the expansion of pond Pond E-1from 1.71 acres at NCL to 2.00 acres.

LAKE AJAY:

The current Cyrils roadway divides Lake Ajay North and Ajay South. Lake Hendon is the headwater of Ajay South and Hendon discharges north via 3 existing culverts and by overtopping the existing roadway.

The existing Cyrils roadway and three 24" pipes severely reduce the pre-development connectivity for Ajay N&S. Currently the flood elevations are affected by overtopping the existing roadway. Lake Hendon peak discharge flow for the 100Yy-24Hr occurs at approximately hour 12 which is well before Ajay's peak; the majority of the 600 cfs from south to north is discharged over the existing roadway. After the 12 hour peak Lake Ajay North begins to utilize Ajay South for storage (via

overtopping the road) and both north and south elevations eventually equalize for the 100 peak elevation. Preliminary research suggests Ajay South is impounded due to the road and the existing pipes by approximately a 3.7 feet. This is further corroborated by LIDAR topo that suggests a 1' differential from south to north topo lines. Basin 102 has been designed to attenuate 7.30 acres of Cyrils drive then discharges to Lake Ajay South.

BORROW PIT:

The current basin map is based on the Dewberry Southern Oaks (SFWMD Permit No 48-02392-P) and Bridgewalk (SFWMD Application No. 200701-3799) pre development condition, which extends from Clapp Simms Duda Road to the north, Narcoossee road to the west, Lake Hendon to the south and just past the borrow pit to the east along Cyrils. The eastern edge of the Dewberry basin study flows east toward depressional areas and wetland areas that ultimately discharge to Lake Ajay North. This boundary line was refined using the basin map from Bridgewalk (2020). Two areas south of the borrow pit, Cyrils E and Franklin Wetland were incorporated from Bridgewalk into the pre-development basin map. Franklin Wetland travels north and east to Cyrils E, Cyrils E travels east to a wetland area. Pre-development (existing) offsite flows are accounted from Cyrils E in the proposed Bridgewalk calculations; these flows ultimately discharging to Ajay North. A control structure in this wetland will be required to discharge to the north wetland.

The Borrow Pit was a closed basin in pre-development. Bridgewalk permitted an outfall to Ajay and is using this for their water quality treatment and water quantity attenuation from their inlet collection system. Upon coordination with Osceola Engineering Inc. (engineering firm who designed the Bridgewalk model), it appears that the borrow pit has adequate capacity to attenuate some runoff from Cyrils Drive as shown on the basin map. At our request, Osceola Engineering ran a test model with 10.42 Ac of the proposed Cyrils drive that resulted in minor elevation stages shown in the table below

Bridgewalk Borrow Pit			
Peak Flood Stages (NAVD88)			
Storm Event	Without	With	Delta
10 yr 24 hr	62.20	62.26	0.06
10yr 72 hr	62.40	62.49	0.09
100yr 72hr	63.01	63.14	0.13

We continue to coordinate with Osceola Engineering to finalize the amount of acceptable runoff from Cyrils drive that will discharge to the borrow pit without causing design storm stages to rise unacceptably. The area included in this submittal discharging to the borrow pit is not anticipated to impact the Bridgewalk Stormwater system in any significant manner.

OFF6 WETLAND:

Continuing east along Cyrils there is a Zone A area bisected by the existing Cyrils. The north, at Split Oak, is the head of this Zone A. This system flows south towards the Myrtle Creek Basin via an existing Control structure from Split Oak Permit 49-00785-S, Structure EA-1 discharges to south of Cyrils. The basin map has filled in these basin lines based on the NED FEMA Flood Study (Case#1367780524441). This Zone A area is part of the FEMA flood study. Cyrils widening ends approximately at Cyrils and Absher road.

FLOODPLAIN IMPACTS AND COMPENSATION:

Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) panel number 12097C0105G includes the project area. There are several areas that will impact the existing Flood Hazard Areas shown on the aforementioned FEMA FIMR Panel. Specific discussion of these areas is included below.

Floodplain Impacts 1 and 2 and compensation storage provided in Pond E-1 are as permitted in SFWMD application No. 081117-25 and SFWMD application No. 200622-3730 respectively.

The pre-development floodplain was studied as a part of the pre-development routing analysis for the roadway. The existing Cyrils Drive culverts were analyzed for their affect on the floodplain elevations south of the roadway. The analysis indicated that a rise of 6.5' to elevation 62.5' occurred as a result of the existing culverts inability to convey the upstream runoff, thus requiring the flow to overtop the existing roadway and cause the stage increase. During the post-development routing anlaysis, a series of box culverts were analyzed to provide additional conveyance and better equalization of the south wetland area (Lake Ajay south) and the north Lake Ajay system. With the implementation of the post development ten (10) 3'X6' culverts, an equivalent conveyance of Lake Ajay N and Lake Ajay South storm elevations was created. This analysis indicates that the addition of floodplain impacts in the way of roadway fill (Which was accounted for in the modeling), was offset by the addition of a properly sized conveyance system and thus causes no net floodplain impacts.

FLOODPLAIN IMPACTS (EXHIBIT 10)					
Location	100-yr FEMA Floodplain Elevation (ft)	Existing Ground Area of Impact (ft)	Depth of Fill (ft)	Area of Impact (ac)	Impact Volume (ac-ft)
IMPACT 1					1.45
IMPACT 2	61.5	58.5	3	1.91	5.74
IMPACT 3	61.5	58.4	3.1	4.53	14.05
IMPACT 4	72.1	71.7	0.4	3.79	1.51
TOTAL					22.76

COMPENSATION OF FLOODPLAIN IMPACTS (EXHIBIT 11)							
Compensating Area ID	Location	100-yr Floodplain Elevation (ft)	NCL Elevation (ft)	Depth of Storage (ft)	Compensating Storage Volume (acft)	Floodplain Impact Volume (ac-ft)	Excess(+)/ Deficit (-)
E-1	IMPACT 1&2	61.5	57.8	3.7	7.3	7.2	0.2
Box Culverts*	IMPACT 3	61.5	60.5	1.00	0.00	14.1	-14.1
107	IMPACT 4	72.1	71.1	1.0	1.5	1.5	0.00
	TOTAL				8.9	22.8	-14.1

* As mentioned above, with the implementation of the post development ten (10) 3'X6' culverts, an approximate equivalent conveyance of Lake Ajay N and Lake Ajay South storm elevations was created. This analysis indicates that the addition of floodplain impacts (Impact 3) in the way of roadway fill, was offset by the addition of a properly sized conveyance system and thus causes no net floodplain impacts.

Water Quality Criteria

Based on the Florida Department of Environmental Protection Comprehensive Verified List and the Comprehensive D-List of Impaired Water bodies, Lake Ajay, Canal 29B and Lake East Tohopekaliga are not listed as impaired waterbodies for nitrogen nor phosphorus.

The site is ultimately part of the Lake Okeechobee watershed which is designated as an impaired water body. An additional 50% water quality treatment will be provided. Also, post-development phosphorus loading will be limited to the pre-development rate.

For wet detention systems, the design treatment volume (Includes 50% additional WQ) is as follows:

- 1.5 inches of runoff over the drainage area or,
- 3.75 inches times the percentage imperviousness.

Water Quantity Criteria

The post-development peak rate of discharge will not exceed the pre-development peak rate of discharge to Lake Ajay from the following storm event:

- 10-year/72-hour storm event

PRE VS POST PEAK DISCHARGE RATE

TailWater Node	10 Year 72 Hour Storm Event					
	PRE			POST		
	Contributing Basin Area (AC)	Peak Runoff (CFS)	Flow Rate (CFS/AC)	Contributing Basin Area (AC)	Peak Runoff (CFS)	Flow Rate (CFS/AC)
Pond E-1	3.1	9.9	3.2	4.0	8.7	2.2
Lake Ajay S	976.6	388.5	0.4	976.6	388.4	0.4
OFF06	383.6	136.1	0.4	383.6	133.7	0.3
Total	**1363.2**	**534.5**	**4.0**	**1364.2**	**530.8**	**2.9**

Permitted & Proposed Post Development Pond E-1 Peak Stages Comparison

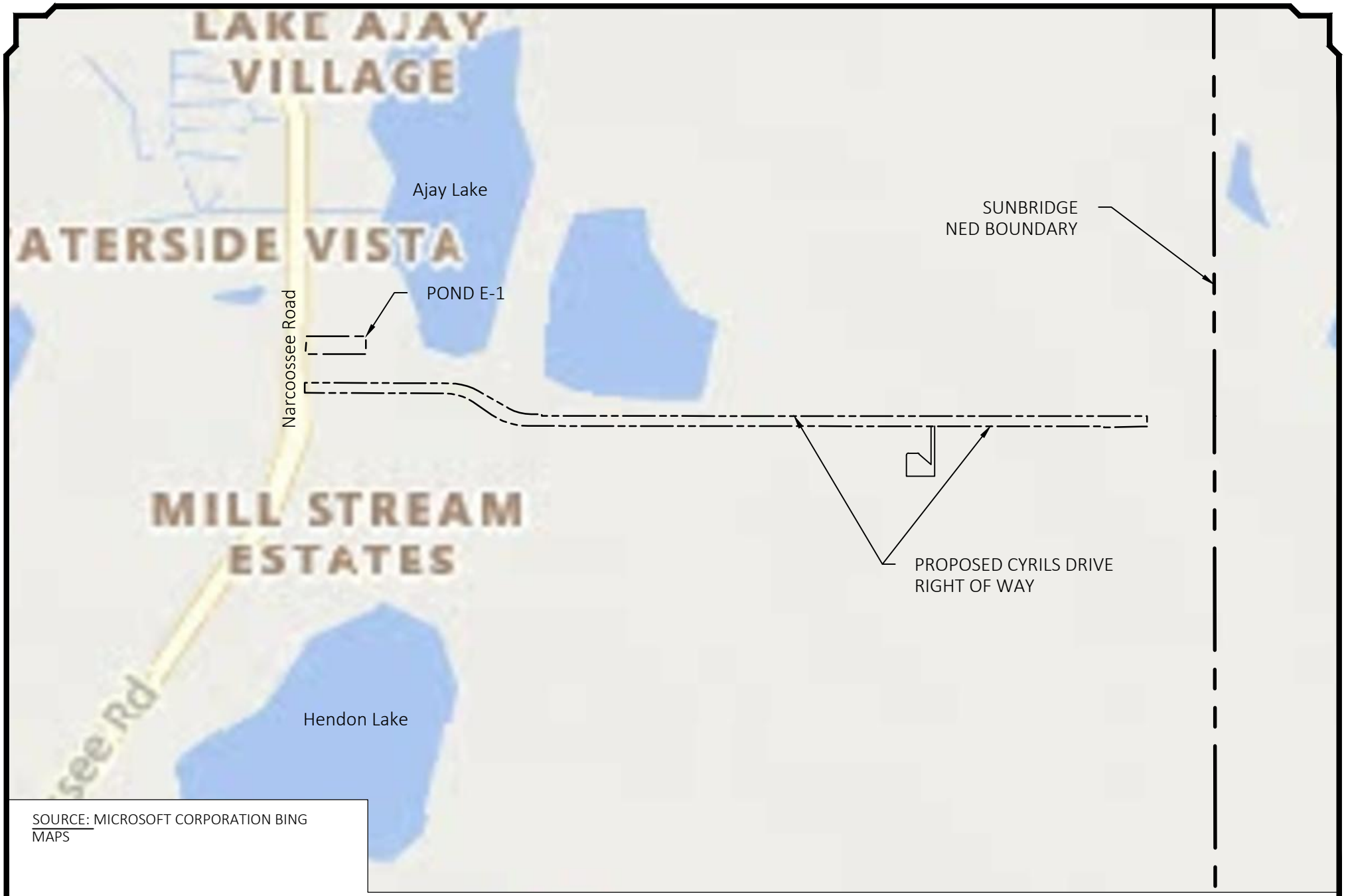
Pond E-1	Permitted Stages	Proposed Stages
10 yr\24hr	59.8'	59.7'
10 yr\72hr	60.3'	60.3'
100 yr\72hr	61.7'	61.0'
Min Road Elevation	59.8'	59.8'

Note:

1) Vertical Datum NAVD 88.

2) Pond Stages and Minimum Road Elevation are as permitted under SFWMD permit #49-103360-P, Application # 200622-3730.

3) Elvations obtained from SFWMD permit # 49-01006-P, Application # 081117-25 were in NGVD29 Datum. Conversion equation: NGVD29-1.015 ft = NAVD88 was used (Atlantic Surveying, LCC).



SOURCE: MICROSOFT CORPORATION BING MAPS

Location Map

Cyrils Drive Widening - Narcoossee Road to Absher Road

N

750" 0 750" 1500"

SCALE IN FEET

Exhibit 1

September 27, 2021

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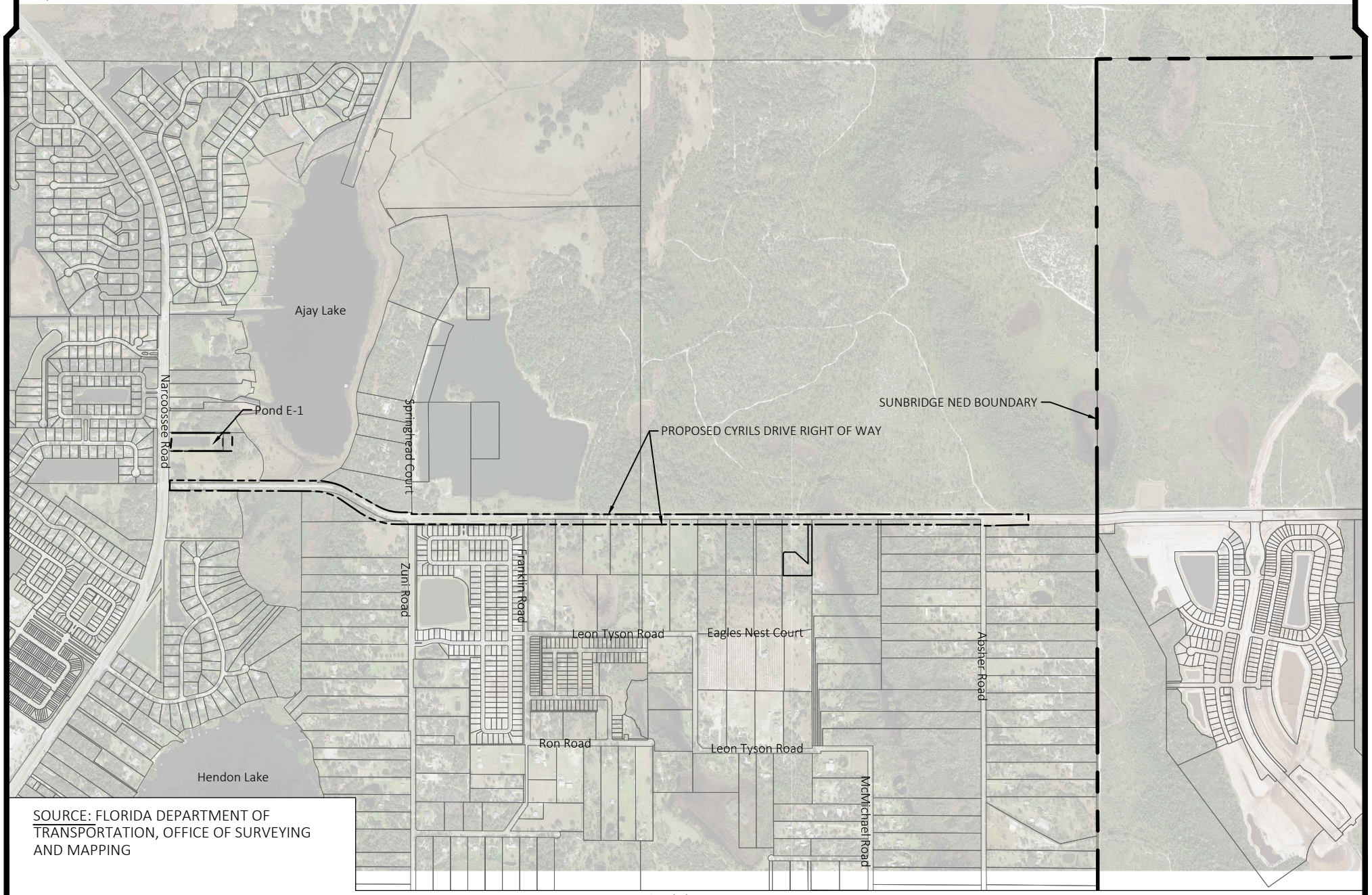
Z:\2017\17-042 TAVISTOCK - SUNBRIDGE\CYRILS DR\NARCOSSEE TO ABSHER\CAD\EXH & FIGS\STORMWATER\FIGURE 1 LOCATION MAP



SOURCE: FLORIDA DEPARTMENT OF TRANSPORTATION, OFFICE OF SURVEYING AND MAPPING

Aerial Map

Cyrils Drive Widening - Narcoossee Road to Absher Road

750" 0 750" 1500"

SCALE IN FEET

Exhibit 2

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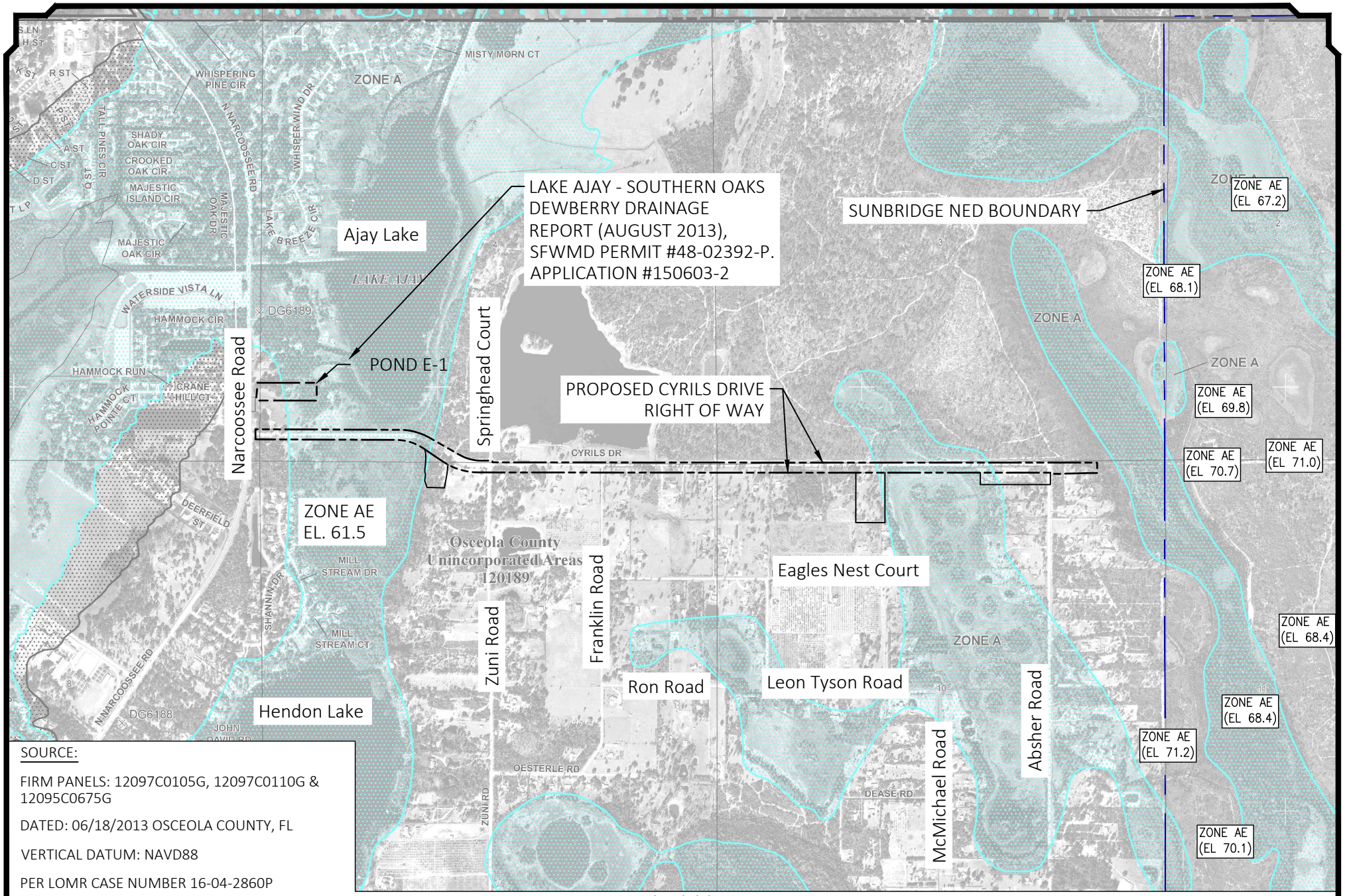

SOURCE:

FIRM PANELS: 12097C0105G, 12097C0110G & 12095C0675G

DATED: 06/18/2013 OSCEOLA COUNTY, FL

VERTICAL DATUM: NAVD88

PER LOMR CASE NUMBER 16-04-2860P

FEMA Floodplain Map

Cyrils Drive Widening - Narcoossee Road to Absher Road

750" 0 750" 1500"

SCALE IN FEET

Exhibit 3

February 10, 2021

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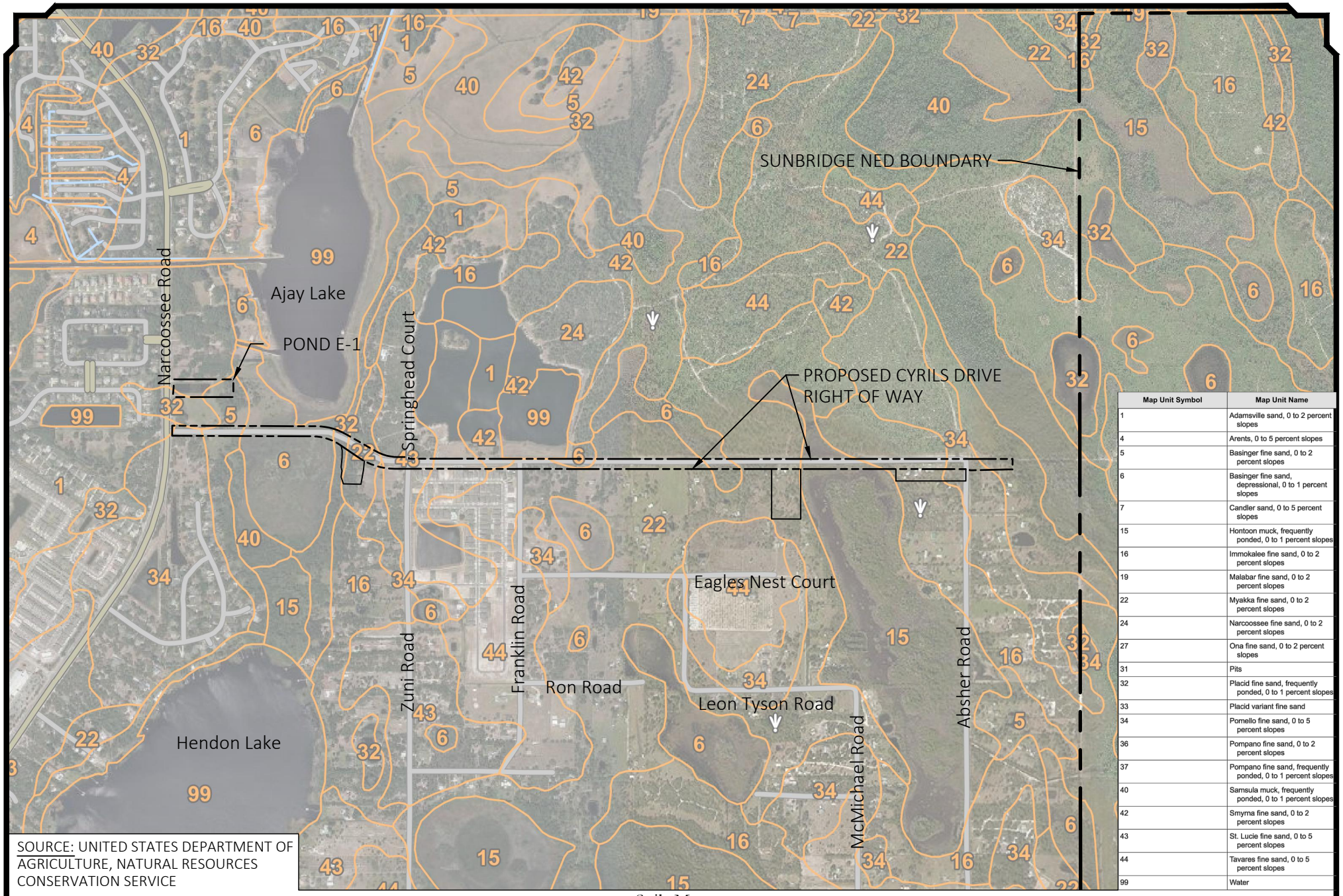

Map Unit Symbol	Map Unit Name
1	Adamsville sand, 0 to 2 percent slopes
4	Arents, 0 to 5 percent slopes
5	Basinger fine sand, 0 to 2 percent slopes
6	Basinger fine sand, depressional, 0 to 1 percent slopes
7	Candler sand, 0 to 5 percent slopes
15	Hontoon muck, frequently ponded, 0 to 1 percent slopes
16	Immokalee fine sand, 0 to 2 percent slopes
19	Malabar fine sand, 0 to 2 percent slopes
22	Myakka fine sand, 0 to 2 percent slopes
24	Narcoossee fine sand, 0 to 2 percent slopes
27	Ona fine sand, 0 to 2 percent slopes
31	Pits
32	Placid fine sand, frequently ponded, 0 to 1 percent slopes
33	Placid variant fine sand
34	Pomello fine sand, 0 to 5 percent slopes
36	Pompano fine sand, 0 to 2 percent slopes
37	Pompano fine sand, frequently ponded, 0 to 1 percent slopes
40	Samsula muck, frequently ponded, 0 to 1 percent slopes
42	Smyrna fine sand, 0 to 2 percent slopes
43	St. Lucie fine sand, 0 to 5 percent slopes
44	Tavares fine sand, 0 to 5 percent slopes
99	Water

SOURCE: UNITED STATES DEPARTMENT OF AGRICULTURE, NATURAL RESOURCES CONSERVATION SERVICE

Soils Map

Cyrils Drive Widening - Narcoossee Road to Absher Road

750" 0 750" 1500"

SCALE IN FEET

Exhibit 4

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SOURCE: USGS

USGS Map

Cyrils Drive Widening - Narcoossee Road to Absher Road

N

500" 0 500" 1000"

SCALE IN FEET

Exhibit 5

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SECTION 2

OFFSITE BASIN WETLAND NW1
OFFSITE BASIN WETLAND NW2
OFFSITE BASIN DITCH A1
OFFSITE BASIN DITCH A-3
OFFSITE BASIN DITCH B-0
OFFSITE BASIN LAKE AJAY
OFFSITE BASIN DITCH A TRIB
OFFSITE BASIN DITCH A-4
OFFSITE BASIN DITCH B-1
OFFSITE BASIN DITCH B-2
OFFSITE BASIN DITCH B-4
OFFSITE BASIN WETLAND N
OFFSITE BASIN DITCH A-9
OFFSITE BASIN DITCH A-8
OFFSITE BASIN DITCH A-6
OFFSITE BASIN DITCH B-5
OFFSITE BASIN WETLAND EAST
OFFSITE BASIN DITCH D-1
OFFSITE BASIN DITCH D-2
BRIDGEWALK BASINS APP#2007013799 PERMIT#49-103743-P
OFFSITE BASIN WETLAND SE1
OFFSITE BASIN SOUTHERN OAKS
OFFSITE BASIN WETLAND SE2
OFFSITE BASIN WETLAND SE3
OFFSITE BASIN WETLAND SE4
OFFSITE BASIN OFF01
OFFSITE BASIN OFF03
OFFSITE BASIN OFF05
OFFSITE BASIN OFF02-1
OFFSITE BASIN
OFFSITE BASIN OFF02-2
OFFSITE BASIN OFF06
OFFSITE BASIN OFF-7
OFFSITE BASIN LAKE AJAY
OFFSITE BASIN BORROW PIT
OFFSITE BASIN CYRILS W
OFFSITE BASIN CYRILS 2
OFFSITE BASIN CYRILS 1
OFFSITE BASIN AJAY N
OFFSITE BASIN & NODE AJAY S
OFFSITE BASIN FRANKLIN WETLAND
OFFSITE BASIN CYRILS E
OFFSITE BASIN HENDON
OFFSITE BASIN
AJAY LAKE
HENDON LAKE
CANAL 29B
NARCOOSSEE ROAD
SPRINGHEAD COURT
LEON TYSON ROAD
EAGLESNEST COURT
RON ROAD
LEON TYSON ROAD
FRANKLIN ROAD
ZUNI ROAD
MCMICHAEL ROAD
ABSHER ROAD
NED 15-1
NED 14
NED 14
NARCOOSSEE ROAD

LEGEND:

- CYRILS DRIVE WIDENING BOUNDARY
- SUNBRIDGE NED BOUNDARY
- WETLAND LIMITS
- EXISTING CONTOURS
- PRIMARY DRAINAGE BASIN LINE
- EXISTING DRAINAGE BASIN LINE
- NED04 — DRAINAGE BASIN IDENTIFICATION
- CONTROL STRUCTURE OUTFLOW
- CULVERT OUTFLOW
- OFFSITE DISCHARGE
- WETLANDS
- PONDS
- LAKE/CANAL
- WETLAND BUFFER

NOTES:

1. TOPOGRAPHY SOURCE IS DONALD W. MCINTOSH ASSOCIATES, INC
2. FEMA ELEVATIONS PER FIRM PANELS 12097C0105G, 12097C110G & 12095C0675F DATED 9-25-2009 OSCEOLA COUNTY, FL VERTICAL DATUM NAVD 88
3. SOUTHERN OAKS BASINS WERE OBTAINED FROM BRIDGEWALK SFWMD APP#

Pre-Development Basin Map

Cyrils Drive Widening - Narcoossee Road to Absher Road

N

500" 0 500" 1000"
SCALE IN FEET

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Exhibit 6

Z:\2017\17-042 TAVISTOCK – SUNBRIDGE\CYRILS DR\NARCOSSEE TO ABSHER\CAD\EXH & FIGS\STORMWATER\FIGURE 6 PRE-DEVELOPMENT BASIN MAP

TABLE PRE 1
CYRILS - NARCOOSSEE TO ABSHER WIDENING

PRE-DEVELOPMENT HYDROLOGIC DATA

BASIN ID	NODE ID	TOTAL DRAINAGE AREA(ac)	EXISTING LAND USE								WEIGHTED RUNOFF CN	TIME OF CONC. (min)
			OPEN SPACE FAIR				POND PERVIOUS	R.O.W. IMP.	WATER	IMPERVIOUS AREA (Ac.)		
			A	B	C	D	C					
			49	69	79	84	70	98	98	98		
B-1	E-1	4.04	1.15			1.04				1.85	**80**	15
B-2	E-1	10.75			1.53		0.63		1.37	7.22	**93**	22
104	Borrow Pit	10.26	3.12			5.09				2.05	**76**	43
107	Borrow Pit	6.56				5.25				1.31	**87**	40
108	Borrow Pit	5.72	0.46			4.12				1.14	**84**	26
TOTAL		**37.33**	**4.73**	**0.00**	**1.53**	**15.50**	**0.63**	**0.00**	**1.37**	**13.57**		

Notes:
1) Basin B-2 (Narcoossee Rd) is as permitted under Basin E1, SFWMD permit # 49-01006-P, Application # 081117-25.
2) Additional 0.98 Acres have been added to Basin B-1(Cyrils Drive) that was permitted under SFWMD permit #49-103360-P, Application # 200622-3730.
4) Basin 104, 107 and 108 have been designed to drain into the Borrow Pit (Bridgewalk project permit #49-103743-P, Application# 200701-3799)
4) Existing Cyrils roadway typically is 24' wide Asphalt Approximately 20% impervious across the 119' R/W.

CN	Hydrologic Condition: Open Space		
49	A	Fair	CN computed for areas with open space. Source: Table 2-2c: USDA TR-55, 1986.
69	B	Fair	
79	C	Fair	
84	D	Fair	

TABLE PRE 2
Cyrils Dr & Narcoossee Rd Intersection Improvements
PRE-DEVELOPMENT TIME OF CONCENTRATION

BASIN NO	OVERLAND FLOW (100' MAX) KINEMATIC WAVE FORMULA					SHALLLOW CONCENTRATED FLOW					CHANNELIZED FLOW					TOTAL TIME CONC. [5]
	LENGTH (FT)	SLOPE (%)	MANNING [1] (N)	INTENSITY [2] (IN/HR)	INC. TIME CONC. (MIN)	LENGTH (FT)	SLOPE (%)	UNPAVED / PAVED	VELOCITY [3] (FT/S)	INC. TIME CONC. (MIN)	LENGTH (FT)	SLOPE (%)	HYDRAULIC (FT)	VELOCITY [4] (FT/S)	INC. TIME CONC. (MIN)	
B-1	100	0.020	0.01	4.8	1.0	580	0.010	1.6	6.0	1.61	470	0.013	1.8	4.3	1.84	15
B-2																22
102	100	0.24%	0.011	4.8	2.3	850	0.26%	UNPAVED	0.8	17.22						20
104	100	0.24%	0.011	4.8	2.3	490	0.08%	UNPAVED	0.5	17.72						20
107	100	0.24%	0.011	4.8	2.3	1265	0.12%	UNPAVED	0.6	38.07						40
108	100	0.24%	0.011	4.8	2.3	1156	0.26%	UNPAVED	0.8	23.44						26

Notes:

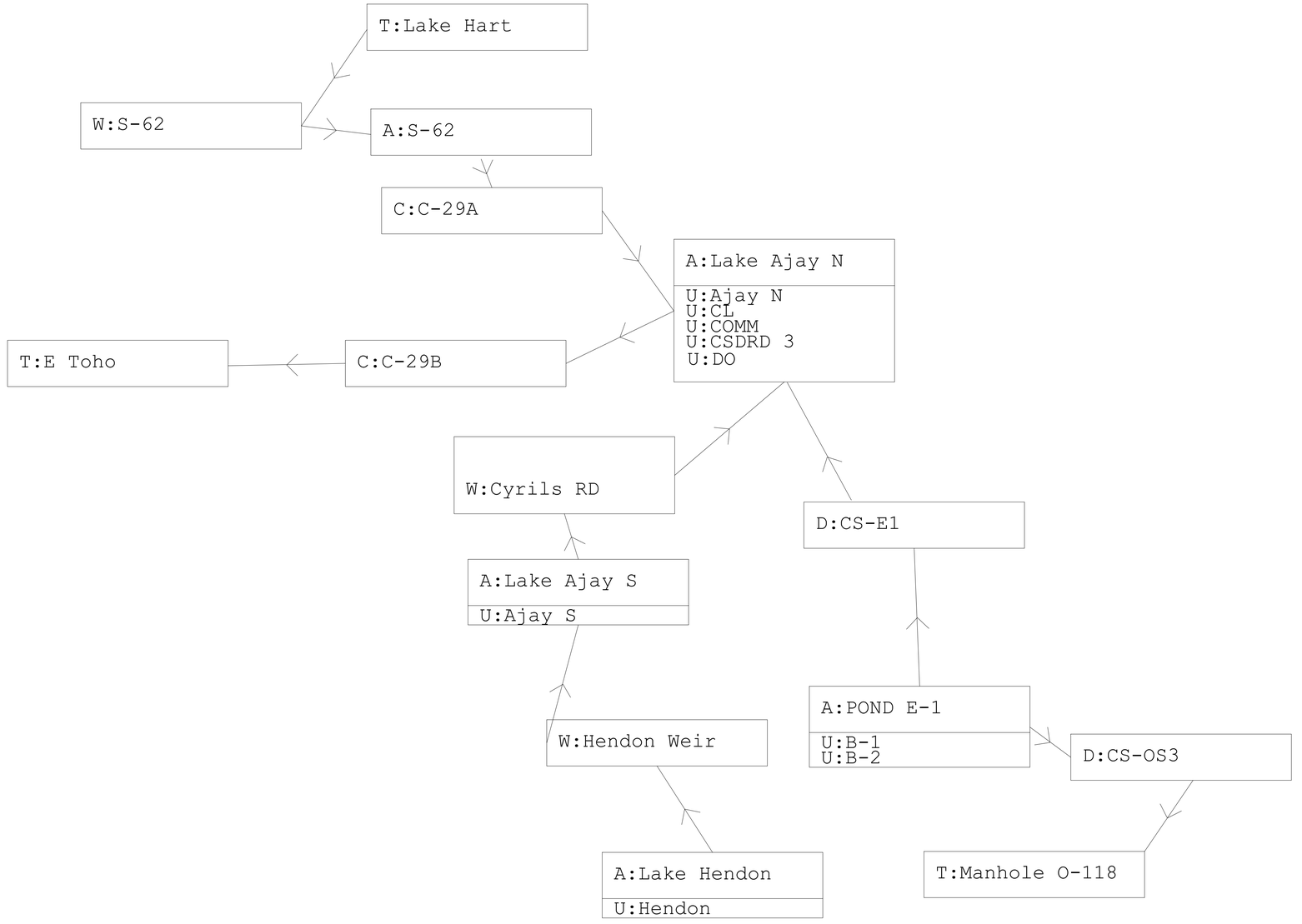
1) Per Table 3-1 of the TR-55. n=0.01 for Smooth Surface (Asphalt); n=0.15 for Short grass prairie

2) Per Appendix F of the TR-55. Unpaved V = $16.1345(s)^{0.5}$. Paved V = $20.3282(s)^{0.5}$.

3) Per equation 3-4 of the TR-55. V = [1.49r^(2/3)s^(1/2)]/n

4) Basin B-1 (Cyrils Drive) Time of Concentration is as permitted under SFWMD permit #49-103360-P, Application # 200622-3730.

4) Basin B-2 (Narcoossee Rd) Time of Concentration is as permitted under Basin E1, SFWMD permit # 49-01006-P, Application # 081117-25.



Pre-Development Nodal Diagram

Cyrils Drive Widening - Narcoossee Road to Absher Road

March 1, 2021
P & B Job No.: 17-042

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Name	Simulation	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow cfs	Max Outflow cfs
E Toho	100Y-24H	57.0	62.0	0.0000	120000	579.02	0.00
E Toho	100Y-24H-BS	61.0	62.0	0.0015	158414	725.91	0.00
E Toho	100Y-72H	57.0	62.0	0.0000	120000	709.32	0.00
E Toho	10Y-24H	57.0	62.0	0.0000	120000	579.02	0.00
E Toho	10Y-72H	57.0	62.0	0.0000	120000	422.98	0.00
E Toho	50Y-24H	57.0	62.0	0.0000	120000	379.31	0.00
Lake Ajay N	100Y-24H	57.8	88.0	0.0034	7379638	962.11	579.02
Lake Ajay N	100Y-24H-BS	61.3	88.0	0.0004	14090078	1625.04	725.91
Lake Ajay N	100Y-72H	58.1	88.0	0.0029	7707275	1233.23	709.32
Lake Ajay N	10Y-24H	57.8	88.0	0.0034	7379638	962.11	579.02
Lake Ajay N	10Y-72H	57.4	88.0	0.0020	7031691	662.08	422.98
Lake Ajay N	50Y-24H	57.4	88.0	0.0028	6942552	697.06	379.31
Lake Ajay S	100Y-24H	59.8	64.0	0.0050	1681161	685.25	664.36
Lake Ajay S	100Y-24H-BS	61.3	64.0	0.0004	2136595	770.88	595.13
Lake Ajay S	100Y-72H	58.3	64.0	0.0030	1341531	845.46	763.90
Lake Ajay S	10Y-24H	59.8	64.0	0.0050	1681161	685.25	664.36
Lake Ajay S	10Y-72H	57.5	64.0	0.0028	1199895	388.39	365.61
Lake Ajay S	50Y-24H	59.6	64.0	0.0050	1646542	427.80	392.88
Lake Hart	100Y-24H	57.0	64.0	0.0000	0	0.00	0.99
Lake Hart	100Y-24H-BS	63.0	64.0	3.0000	0	0.00	742.71
Lake Hart	100Y-72H	57.0	64.0	0.0000	0	0.00	1.00
Lake Hart	10Y-24H	57.0	64.0	0.0000	0	0.00	0.99
Lake Hart	10Y-72H	57.0	64.0	0.0000	0	0.00	0.64
Lake Hart	50Y-24H	57.0	64.0	0.0000	0	0.00	0.99
Lake Hendon	100Y-24H	61.7	64.0	0.0026	7601728	1141.81	587.12
Lake Hendon	100Y-24H-BS	61.7	64.0	-0.0002	7636886	880.05	652.94
Lake Hendon	100Y-72H	61.8	64.0	0.0017	7667540	1231.43	713.00
Lake Hendon	10Y-24H	61.7	64.0	0.0026	7601728	1141.81	587.12
Lake Hendon	10Y-72H	61.5	64.0	0.0019	7445084	664.55	333.36
Lake Hendon	50Y-24H	61.5	64.0	0.0030	7469564	788.31	368.77
MARYJANE TW	100Y-24H-BS	62.0	63.0	0.0007	0	331.35	0.00
MARYJANE TW	100YR-24H	62.0	63.0	0.0034	0	284.49	0.00
MARYJANE TW	100YR-72H	62.0	63.0	0.0051	0	354.75	0.00
MARYJANE TW	10YR-24H	62.0	63.0	0.0034	0	284.49	0.00
MARYJANE TW	10YR-72H	62.0	63.0	0.0051	0	188.25	0.00
MARYJANE TW	50Y-24H	62.0	63.0	0.0043	0	201.85	0.00
NED01	100Y-24H-BS	67.3	74.0	-0.0003	3110152	354.37	331.35
NED01	100YR-24H	67.2	74.0	0.0031	2792182	306.61	284.49
NED01	100YR-72H	67.3	74.0	0.0028	3257798	391.43	354.75
NED01	10YR-24H	67.2	74.0	0.0031	2792182	306.61	284.49
NED01	10YR-72H	67.0	74.0	0.0023	2049760	201.80	188.25
NED01	50Y-24H	67.0	74.0	0.0030	2114414	214.99	201.85
NED09	100Y-24H-BS	68.1	72.0	-0.0000	345933	33.18	33.04
NED09	100YR-24H	68.1	72.0	0.0003	344058	30.90	30.65
NED09	100YR-72H	68.2	72.0	0.0003	349351	37.79	37.56
NED09	10YR-24H	68.1	72.0	0.0003	344058	30.90	30.65
NED09	10YR-72H	68.1	72.0	0.0001	337165	20.47	20.42
NED09	50Y-24H	68.1	72.0	0.0003	338532	22.96	22.91
NED10	100Y-24H-BS	69.9	76.0	0.0002	1021798	60.99	42.17

Name	Simulation	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow cfs	Max Outflow cfs
NED10	100YR-24H	69.8	76.0	0.0030	1003317	59.22	33.27
NED10	100YR-72H	69.9	76.0	0.0019	1044013	67.11	56.19
NED10	10YR-24H	69.8	76.0	0.0030	1003317	59.22	33.27
NED10	10YR-72H	69.8	76.0	0.0022	968822	39.02	20.36
NED10	50Y-24H	69.7	76.0	0.0026	965866	43.08	19.39
NED11	100Y-24H-BS	70.1	75.0	0.0002	473191	38.73	31.94
NED11	100YR-24H	70.1	75.0	0.0039	470151	37.67	26.39
NED11	100YR-72H	70.1	75.0	0.0029	477320	41.01	40.07
NED11	10YR-24H	70.1	75.0	0.0039	470151	37.67	26.39
NED11	10YR-72H	70.1	75.0	0.0029	463710	24.56	15.95
NED11	50Y-24H	70.1	75.0	0.0031	463112	27.75	15.07
NED12	100Y-24H-BS	70.8	76.0	0.0001	28600	1.92	0.00
NED12	100YR-24H	70.7	76.0	0.0047	28515	2.78	0.00
NED12	100YR-72H	71.0	76.0	0.0027	29010	3.02	0.00
NED12	10YR-24H	70.7	76.0	0.0047	28515	2.78	0.00
NED12	10YR-72H	70.4	76.0	0.0021	28090	1.87	0.00
NED12	50Y-24H	70.4	76.0	0.0041	28072	2.42	0.00
NED13	100Y-24H-BS	71.0	76.0	0.0002	105563	12.12	12.11
NED13	100YR-24H	71.0	76.0	0.0050	105508	12.06	11.73
NED13	100YR-72H	71.0	76.0	0.0008	105732	13.30	13.30
NED13	10YR-24H	71.0	76.0	0.0050	105508	12.06	11.73
NED13	10YR-72H	71.0	76.0	0.0025	104880	7.77	7.77
NED13	50Y-24H	71.0	76.0	0.0050	105001	9.14	8.48
NED14	100Y-24H-BS	68.5	78.0	0.0004	23	387.59	0.00
NED14	100YR-24H	68.5	78.0	0.0030	27	320.21	0.00
NED14	100YR-72H	68.5	78.0	0.0045	32	478.44	0.00
NED14	10YR-24H	68.5	78.0	0.0030	27	320.21	0.00
NED14	10YR-72H	68.5	78.0	0.0045	32	215.49	0.00
NED14	50Y-24H	68.5	78.0	0.0030	30	231.48	0.00
NED28	100Y-24H-BS	71.3	77.0	0.0002	687483	60.88	50.16
NED28	100YR-24H	71.2	77.0	0.0042	680691	60.81	41.22
NED28	100YR-72H	71.3	77.0	0.0032	700143	73.39	68.49
NED28	10YR-24H	71.2	77.0	0.0042	680691	60.81	41.22
NED28	10YR-72H	71.2	77.0	0.0031	666660	39.82	24.93
NED28	50Y-24H	71.2	77.0	0.0032	664647	44.04	22.85
NED29	100Y-24H-BS	70.1	76.0	-0.0003	2127414	115.46	85.88
NED29	100YR-24H	70.1	76.0	0.0030	2105364	97.55	67.39
NED29	100YR-72H	70.1	76.0	0.0030	2156416	141.00	114.48
NED29	10YR-24H	70.1	76.0	0.0030	2105364	97.55	67.39
NED29	10YR-72H	69.9	76.0	0.0030	2005117	64.30	33.16
NED29	50Y-24H	70.0	76.0	0.0021	2022748	63.64	35.87
OFF05	100Y-24H-BS	73.2	75.0	0.0003	1558514	37.70	6.14
OFF05	100YR-24H	73.0	75.0	0.0021	1466863	32.85	2.02
OFF05	100YR-72H	73.4	75.0	0.0028	1678722	41.33	8.98
OFF05	10YR-24H	73.0	75.0	0.0021	1466863	32.85	2.02
OFF05	10YR-72H	72.9	75.0	0.0020	1362905	22.79	1.10
OFF05	50Y-24H	72.8	75.0	0.0018	1288930	24.14	0.87
OFF06	100Y-24H-BS	72.1	75.0	0.0003	5563537	211.86	22.88
OFF06	100YR-24H	71.9	75.0	0.0019	5373241	172.59	19.26

Name	Simulation	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow cfs	Max Outflow cfs
OFF06	100YR-72H	72.4	75.0	0.0030	5976205	235.05	27.95
OFF06	10YR-24H	71.9	75.0	0.0019	5373241	172.59	19.26
OFF06	10YR-72H	71.6	75.0	0.0018	5228853	133.68	14.82
OFF06	50Y-24H	71.6	75.0	0.0015	5249614	152.38	15.44
OFF7-1	100Y-24H-BS	69.2	72.0	0.0023	12071	22.88	22.92
OFF7-1	100YR-24H	69.0	72.0	0.0050	11713	19.26	19.94
OFF7-1	100YR-72H	69.3	72.0	0.0050	12191	27.95	27.98
OFF7-1	10YR-24H	69.0	72.0	0.0050	11713	19.26	19.94
OFF7-1	10YR-72H	68.7	72.0	0.0050	10793	14.82	14.83
OFF7-1	50Y-24H	68.9	72.0	0.0046	11390	15.44	16.24
OFF7-2	100Y-24H-BS	68.9	72.0	-0.0024	11224	39.50	39.45
OFF7-2	100YR-24H	68.8	72.0	0.0045	10942	34.40	34.48
OFF7-2	100YR-72H	68.8	72.0	-0.0048	11177	45.82	45.81
OFF7-2	10YR-24H	68.8	72.0	0.0045	10942	34.40	34.48
OFF7-2	10YR-72H	68.4	72.0	-0.0050	10192	25.18	25.19
OFF7-2	50Y-24H	68.6	72.0	0.0049	10681	26.97	27.07
S-62	100Y-24H	57.8	64.0	0.0040	179042	0.99	36.42
S-62	100Y-24H-BS	61.6	64.0	0.0009	229407	742.71	727.04
S-62	100Y-72H	58.1	64.0	0.0029	183226	1.00	0.00
S-62	10Y-24H	57.8	64.0	0.0040	179042	0.99	36.42
S-62	10Y-72H	57.4	64.0	0.0040	174576	0.64	35.96
S-62	50Y-24H	57.4	64.0	0.0036	173486	0.99	36.40

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==== Basins ====================================================================
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         Name: 102                     Node: Lake Ajay S            Status: Onsite
        Group: BASE                    Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                  Peaking Factor: 256.0
          Rainfall File:                 Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000             Time of Conc(min): 20.00
             Area(ac): 7.300                 Time Shift(hrs): 0.00
         Curve Number: 80.00            Max Allowable Q(cfs): 999999.000
              DCIA(%): 0.00



--------------------------------------------------------------------------------
         Name: 107                     Node: OFF06                  Status: Onsite
        Group: BASE-POST               Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                  Peaking Factor: 256.0
          Rainfall File:                 Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000             Time of Conc(min): 40.00
             Area(ac): 11.200                Time Shift(hrs): 0.00
         Curve Number: 87.00            Max Allowable Q(cfs): 999999.000
              DCIA(%): 0.00



--------------------------------------------------------------------------------
         Name: 108                     Node: OFF06                  Status: Onsite
        Group: BASE-POST               Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                  Peaking Factor: 256.0
          Rainfall File:                 Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000             Time of Conc(min): 26.00
             Area(ac): 8.370                 Time Shift(hrs): 0.00
         Curve Number: 84.00            Max Allowable Q(cfs): 999999.000
              DCIA(%): 0.00



--------------------------------------------------------------------------------
         Name: Ajay N                  Node: Lake Ajay N            Status: Onsite
        Group: BASE                    Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                  Peaking Factor: 256.0
          Rainfall File:                 Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000             Time of Conc(min): 37.00
             Area(ac): 304.020               Time Shift(hrs): 0.00
         Curve Number: 75.00            Max Allowable Q(cfs): 999999.000
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DCIA(%): 0.00

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

Name: Ajay S | Node: Lake Ajay S | Status: Onsite
Group: BASE | Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 | Peaking Factor: 256.0
Rainfall File: | Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 | Time of Conc(min): 56.00
Area(ac): 167.990 | Time Shift(hrs): 0.00
Curve Number: 52.00 | Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

Name: CL | Node: Lake Ajay N | Status: Onsite
Group: BASE | Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 | Peaking Factor: 256.0
Rainfall File: | Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 | Time of Conc(min): 55.00
Area(ac): 59.710 | Time Shift(hrs): 0.00
Curve Number: 43.00 | Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

Name: COMM | Node: Lake Ajay N | Status: Onsite
Group: BASE | Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 | Peaking Factor: 256.0
Rainfall File: | Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 | Time of Conc(min): 53.00
Area(ac): 17.970 | Time Shift(hrs): 0.00
Curve Number: 45.00 | Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

Name: CSDRD 1 | Node: Wet 4 | Status: Onsite
Group: BASE | Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 | Peaking Factor: 256.0
Rainfall File: | Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 | Time of Conc(min): 10.00
Area(ac): 2.750 | Time Shift(hrs): 0.00
Curve Number: 65.00 | Max Allowable Q(cfs): 999999.000

DCIA(%): 0.00

Information from Dewberry report April 2014.

Name: CSDRD 2 Node: Wet 5N Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 0.790 Time Shift(hrs): 0.00
Curve Number: 69.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Information from Dewberry report April 2014.

Name: CSDRD 3 Node: Lake Ajay N Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 7.580 Time Shift(hrs): 0.00
Curve Number: 69.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

Name: Cyrils 1 Node: Wet 1 Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 27.00
Area(ac): 4.560 Time Shift(hrs): 0.00
Curve Number: 65.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Information from Dewberry report April 2014.

Name: Cyrils 2 Node: Lake Ajay N Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 6.060 Time Shift(hrs): 0.00
Curve Number: 62.00 Max Allowable Q(cfs): 999999.000

DCIA(%): 0.00

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

Name: DO Node: Lake Ajay N Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 47.00
Area(ac): 63.530 Time Shift(hrs): 0.00
Curve Number: 52.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

Name: Hendon Node: Lake Hendon Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 64.00
Area(ac): 801.280 Time Shift(hrs): 0.00
Curve Number: 62.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

Name: NED01 Node: NED01 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 143.00
Area(ac): 152.840 Time Shift(hrs): 0.00
Curve Number: 86.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Name: NED09 Node: NED09 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 79.00
Area(ac): 25.630 Time Shift(hrs): 0.00
Curve Number: 84.00 Max Allowable Q(cfs): 999999.000

DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Name: NED10 Node: NED10 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 67.83
Area(ac): 33.440 Time Shift(hrs): 0.00
Curve Number: 84.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Name: NED11 Node: NED11 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 67.42
Area(ac): 29.930 Time Shift(hrs): 0.00
Curve Number: 85.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Name: NED12 Node: NED12 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 15.37
Area(ac): 0.940 Time Shift(hrs): 0.00
Curve Number: 91.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Name: NED13 Node: NED13 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 66.37
Area(ac): 11.820 Time Shift(hrs): 0.00
Curve Number: 80.00 Max Allowable Q(cfs): 999999.000

DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Name: NED14 Node: NED14 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 141.35
Area(ac): 262.070 Time Shift(hrs): 0.00
Curve Number: 86.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: NED27 Node: OFF7-2 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 240.00
Area(ac): 1.920 Time Shift(hrs): 0.00
Curve Number: 75.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Name: NED28 Node: NED28 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 59.00
Area(ac): 14.810 Time Shift(hrs): 0.00
Curve Number: 84.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Name: NED29 Node: NED29 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 224.00
Area(ac): 78.890 Time Shift(hrs): 0.00
Curve Number: 83.00 Max Allowable Q(cfs): 999999.000

DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Name: OFF01 Node: NED01 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 143.00
Area(ac): 338.880 Time Shift(hrs): 0.00
Curve Number: 70.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 2.23

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Name: OFF02 Node: NED14 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 96.00
Area(ac): 184.440 Time Shift(hrs): 0.00
Curve Number: 70.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: OFF03 Node: NED09 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 79.00
Area(ac): 18.770 Time Shift(hrs): 0.00
Curve Number: 49.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Name: OFF04 Node: NED10 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 66.00
Area(ac): 21.310 Time Shift(hrs): 0.00
Curve Number: 72.00 Max Allowable Q(cfs): 999999.000

DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Name: OFF05 Node: OFF05 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 163.00
Area(ac): 74.920 Time Shift(hrs): 0.00
Curve Number: 73.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Name: OFF06 Node: OFF06 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 125.00
Area(ac): 289.060 Time Shift(hrs): 0.00
Curve Number: 78.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Name: OFF07 Node: OFF7-2 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 240.00
Area(ac): 60.020 Time Shift(hrs): 0.00
Curve Number: 77.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Name: OFF08 Node: NED28 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 59.00
Area(ac): 51.670 Time Shift(hrs): 0.00
Curve Number: 66.00 Max Allowable Q(cfs): 999999.000

DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Name: OFF09 Node: NED29 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 224.00
Area(ac): 124.930 Time Shift(hrs): 0.00
Curve Number: 53.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Name: OFF29 Node: NED01 Status: Onsite
Group: NED Export Type: SCS Unit Hydrograph CN

Unit Hydrograph: UH100 Peaking Factor: 100.0
Rainfall File: Flmod Storm Duration(hrs): 72.00
Rainfall Amount(in): 9.330 Time of Conc(min): 143.00
Area(ac): 22.250 Time Shift(hrs): 0.00
Curve Number: 69.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

==========
==== Nodes ==========
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Name: E Toho Base Flow(cfs): 0.000 Init Stage(ft): 57.000
Group: BASE Warn Stage(ft): 62.000
Type: Time/Stage

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

Time(hrs)	Stage(ft)
0.00	57.000
100.00	57.000

Name: Lake Ajay N Base Flow(cfs): 0.000 Init Stage(ft): 57.000
Group: BASE Warn Stage(ft): 88.000
Type: Stage/Area

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

Stage(ft)	Area(ac)
57.000	143.9000
58.000	167.8000
59.000	190.9000
60.000	266.3000
61.000	307.4000
62.000	331.5000

Name: Lake Ajay S Base Flow(cfs): 0.000 Init Stage(ft): 57.000
Group: BASE Warn Stage(ft): 64.000
Type: Stage/Area

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

Stage(ft)	Area(ac)
56.000	21.3000
59.000	33.4000
64.000	67.4000

Name: Lake Hart Base Flow(cfs): 0.000 Init Stage(ft): 57.000
Group: BASE Warn Stage(ft): 64.000
Type: Time/Stage

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

Time(hrs)	Stage(ft)
0.00	57.000
100.00	57.000

Name: Lake Hendon Base Flow(cfs): 0.000 Init Stage(ft): 61.000
Group: BASE Warn Stage(ft): 64.000
Type: Stage/Area

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

Stage(ft)	Area(ac)
61.000	162.0000
64.000	217.0000

Name: MARYJANE TW Base Flow(cfs): 0.000 Init Stage(ft): 60.000
Group: NED Export Warn Stage(ft): 63.000
Type: Time/Stage

Information for Lake Mary Jane obtained from the report titled "Basin Planning for Boggy Creek and Lake Hart Watersheds, Final Report (June 1998), by

Basin, node and link data taken from the approved NED LOMR-NAVD88 Master ICPR3 model, obtained from FEMA.

The time-stage data for node MARYJANE was taken for the time-stage output for the approved 100Yr-24Hr event.

Time(hrs)	Stage(ft)
0.00	60.000
0.25	60.000
0.50	60.000
0.75	60.000
1.00	60.000
1.25	60.000
1.50	60.000
1.75	60.010
2.00	60.010
2.25	60.010
2.50	60.010
2.75	60.020
3.00	60.020
3.25	60.020
3.50	60.020
3.75	60.030
4.00	60.030
4.25	60.030
4.50	60.040
4.75	60.040
5.00	60.040
5.25	60.050
5.50	60.050
5.75	60.060
6.00	60.060
6.25	60.060
6.50	60.070
6.75	60.070
7.00	60.080
7.25	60.080
7.50	60.090
7.75	60.090
8.00	60.100
8.25	60.110
8.50	60.110
8.75	60.120
9.00	60.130
9.25	60.140
9.50	60.140
9.75	60.150
10.00	60.160
10.25	60.170
10.50	60.180

10.75	60.190
11.00	60.210
11.25	60.220
11.50	60.240
11.75	60.270
12.00	60.330
12.25	60.410
12.50	60.480
12.75	60.540
13.00	60.590
13.25	60.630
13.50	60.670
13.75	60.700
14.00	60.730
14.25	60.760
14.50	60.790
14.75	60.820
15.00	60.850
15.25	60.880
15.50	60.910
15.75	60.940
16.00	60.970
16.25	60.990
16.50	61.020
16.75	61.050
17.00	61.080
17.25	61.110
17.50	61.140
17.75	61.170
18.00	61.200
18.25	61.220
18.50	61.250
18.75	61.280
19.00	61.310
19.25	61.330
19.50	61.360
19.75	61.390
20.00	61.420
20.25	61.440
20.50	61.470
20.75	61.490
21.00	61.520
21.25	61.550
21.50	61.570
21.75	61.600
22.00	61.620
22.25	61.640
22.50	61.670
22.75	61.690
23.00	61.720
23.25	61.740
23.50	61.760

23.75	61.790
24.00	61.810
24.25	61.830
24.50	61.850
24.75	61.870
25.00	61.890
25.25	61.910
25.50	61.930
25.75	61.950
26.00	61.970
26.03	61.970

Name: NED01 Base Flow(cfs): 0.000 Init Stage(ft): 66.300
Group: NED Export Warn Stage(ft): 74.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
65.000	0.0000
66.000	0.0800
67.000	22.8700
68.000	96.6500
69.000	296.8500
70.000	696.9400
71.000	1153.7900
72.000	1639.9200
73.000	2137.4200
74.000	2643.4000

Name: NED09 Base Flow(cfs): 0.000 Init Stage(ft): 68.100
Group: NED Export Warn Stage(ft): 72.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
66.000	0.0000
67.000	0.1000
68.000	4.0700
69.000	13.8700
70.000	32.1000
71.000	69.0900
72.000	115.9300

Name: NED10 Base Flow(cfs): 0.000 Init Stage(ft): 68.700
Group: NED Export Warn Stage(ft): 76.000

Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
67.000	0.0000
68.000	0.7100
69.000	11.6600
70.000	28.1900
71.000	61.6900
72.000	109.9800
73.000	167.1400
74.000	225.5800
75.000	284.5500
76.000	343.6400

Name: NED11 Base Flow(cfs): 0.000 Init Stage(ft): 68.700
Group: NED Export Warn Stage(ft): 75.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
68.000	0.0000
69.000	5.5300
70.000	13.4800
71.000	26.0600
72.000	45.5400
73.000	69.3100
74.000	95.9500
75.000	126.5600

Name: NED12 Base Flow(cfs): 0.000 Init Stage(ft): 69.500
Group: NED Export Warn Stage(ft): 76.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
66.000	0.0000
67.000	0.0100
68.000	0.5500
69.000	1.1200
70.000	1.7300
71.000	2.3800
72.000	3.0600
73.000	3.8200

74.000	4.7500
75.000	5.8600
76.000	7.0200

Name: NED13 Base Flow(cfs): 0.000 Init Stage(ft): 70.000
Group: NED Export Warn Stage(ft): 76.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
69.000	0.0000
70.000	0.5200
71.000	1.9300
72.000	5.2400
73.000	10.0000
74.000	16.1400
75.000	26.8100
76.000	38.4300

Name: NED14 Base Flow(cfs): 0.000 Init Stage(ft): 67.000
Group: NED Export Warn Stage(ft): 78.000
Type: Time/Stage

Time/stage date were obtained from the approved Sunbridge NED conceptual permit, application #200622-3738

Time(hrs)	Stage(ft)
0.00	67.000
0.50	67.000
1.00	67.000
1.50	67.000
2.00	67.000
2.50	67.000
3.00	67.000
3.50	67.000
4.00	67.000
4.50	67.000
5.00	67.000
5.50	67.000
6.00	67.000
6.50	67.010
7.00	67.010
7.50	67.010
8.00	67.020
8.50	67.020
9.00	67.040
9.50	67.060

10.00	67.090
10.25	67.110
10.50	67.120
10.75	67.140
11.00	67.160
11.25	67.190
11.50	67.210
11.75	67.240
12.00	67.280
12.25	67.330
12.50	67.400
12.75	67.470
13.00	67.540
13.25	67.610
13.50	67.680
13.75	67.740
14.00	67.810
14.25	67.870
14.50	67.920
14.75	67.980
15.00	68.030
15.25	68.080
15.50	68.130
15.75	68.170
16.00	68.200
16.25	68.240
16.50	68.260
16.75	68.290
17.00	68.310
17.25	68.330
17.50	68.350
17.75	68.360
18.00	68.380
18.25	68.390
18.50	68.400
18.75	68.410
19.00	68.420
19.25	68.430
19.50	68.440
19.75	68.440
20.00	68.440
20.25	68.450
20.50	68.450
20.75	68.450
21.00	68.450
21.25	68.450
21.50	68.440
21.75	68.440
22.00	68.440
22.25	68.440
22.50	68.430
22.75	68.430

23.00	68.430
23.25	68.430
23.50	68.420
23.75	68.420
24.00	68.420
24.25	68.410
24.50	68.410
24.75	68.400
25.00	68.400
25.25	68.400
25.50	68.390
25.75	68.390
26.00	68.380
26.25	68.380
26.50	68.370
26.75	68.370
27.00	68.370
27.25	68.360
27.50	68.360
27.75	68.350
28.00	68.350
28.25	68.340
28.50	68.340
28.75	68.330
29.00	68.330
29.25	68.320
29.50	68.320
29.75	68.310
30.00	68.310
31.00	68.290
32.00	68.270
33.00	68.260
34.00	68.240
35.00	68.230
36.00	68.220
37.00	68.200
38.00	68.190
39.00	68.180
40.00	68.170
41.00	68.160
42.00	68.140
43.00	68.130
44.00	68.120
45.00	68.110
46.00	68.090
47.00	68.080
48.00	68.070
49.00	68.060
50.00	68.050
51.00	68.040
52.00	68.030
53.00	68.020

54.00	68.010
55.00	68.010
56.00	68.000
57.00	67.990
58.00	67.980
59.00	67.970
60.00	67.960
61.00	67.950
62.00	67.950
63.00	67.940
64.00	67.930
65.00	67.920
66.00	67.910
67.00	67.910
68.00	67.900
69.00	67.890
70.00	67.890
71.00	67.880
72.00	67.870
73.00	67.870
74.00	67.860
75.00	67.860
76.00	67.850
77.00	67.850
78.00	67.840
79.00	67.840
80.00	67.840
81.00	67.830
82.00	67.830
83.00	67.820
84.00	67.820
85.00	67.820
86.00	67.810
87.00	67.810
88.00	67.810
89.00	67.800
90.00	67.800
91.00	67.790
92.00	67.790
93.00	67.780
94.00	67.780
95.00	67.770
96.00	67.770
97.00	67.770
98.00	67.760
99.00	67.760
100.00	67.750
101.00	67.750
102.00	67.750
103.00	67.740
104.00	67.740
105.00	67.730

106.00	67.730
107.00	67.730
108.00	67.720
109.00	67.720
110.00	67.710
111.00	67.710
112.00	67.710
113.00	67.700
114.00	67.700
115.00	67.700
116.00	67.690
117.00	67.690
118.00	67.690
119.00	67.680
120.00	67.680
121.00	67.680
122.00	67.670
123.00	67.670
124.00	67.670
125.00	67.670
126.00	67.660
127.00	67.660
128.00	67.660
129.00	67.660
130.00	67.660
131.00	67.650
132.00	67.650
133.00	67.650
134.00	67.650
135.00	67.650
136.00	67.640
137.00	67.640
138.00	67.640
139.00	67.640
140.00	67.640
141.00	67.630
142.00	67.630
143.00	67.630
144.00	67.630
145.00	67.630
146.00	67.630
147.00	67.620
148.00	67.620
149.00	67.620
150.00	67.620
151.00	67.620
152.00	67.620
153.00	67.620
154.00	67.610
155.00	67.610
156.00	67.610
157.00	67.610

158.00	67.610
159.00	67.610
160.00	67.610
161.00	67.600
162.00	67.600
163.00	67.600
164.00	67.600
165.00	67.600
166.00	67.600
167.00	67.600
168.00	67.600
169.00	67.600
170.00	67.590
171.00	67.590
172.00	67.590
173.00	67.590
174.00	67.590
175.00	67.590
176.00	67.590
177.00	67.590
178.00	67.580
179.00	67.580
180.00	67.580
181.00	67.580
182.00	67.580
183.00	67.580
184.00	67.580
185.00	67.580
186.00	67.580
187.00	67.580
188.00	67.570
189.00	67.570
190.00	67.570
191.00	67.570
192.00	67.570
193.00	67.570
194.00	67.570
195.00	67.570
196.00	67.570
197.00	67.570
198.00	67.560
199.00	67.560
200.00	67.560
201.00	67.560
202.00	67.560
203.00	67.560
204.00	67.560
205.00	67.560
206.00	67.560
207.00	67.560
208.00	67.560
209.00	67.560

210.00	67.550
211.00	67.550
212.00	67.550
213.00	67.550
214.00	67.550
215.00	67.550
216.00	67.550
217.00	67.550
218.00	67.550
219.00	67.550
220.00	67.550
221.00	67.550
222.00	67.550
223.00	67.550
224.00	67.540
225.00	67.540
226.00	67.540
227.00	67.540
228.00	67.540
229.00	67.540
230.00	67.530
231.00	67.530
232.00	67.530
233.00	67.530
234.00	67.530
235.00	67.520
236.00	67.520
237.00	67.520
238.00	67.520
239.00	67.520
240.00	67.510
241.00	67.510
242.00	67.510
243.00	67.510
244.00	67.510
245.00	67.500
246.00	67.500
247.00	67.500
248.00	67.500
249.00	67.490
250.00	67.490
251.00	67.490
252.00	67.490
253.00	67.490
254.00	67.480
255.00	67.480
256.00	67.480
257.00	67.480
258.00	67.470
259.00	67.470
260.00	67.470
261.00	67.470

262.00	67.460
263.00	67.460
264.00	67.460
265.00	67.460
266.00	67.450
267.00	67.450
268.00	67.450
269.00	67.450
270.00	67.440
271.00	67.440
272.00	67.440
273.00	67.440
274.00	67.430
275.00	67.430
276.00	67.430
277.00	67.430
278.00	67.430
279.00	67.420
280.00	67.420
281.00	67.420
282.00	67.420
283.00	67.410
284.00	67.410
285.00	67.410
286.00	67.410
287.00	67.400
288.00	67.400
289.00	67.400
290.00	67.400
291.00	67.390
292.00	67.390
293.00	67.390
294.00	67.390
295.00	67.380
296.00	67.380
297.00	67.380
298.00	67.380
299.00	67.370
300.00	67.370

Name: NED28 Base Flow(cfs): 0.000 Init Stage(ft): 70.000
Group: NED Export Warn Stage(ft): 77.000
Type: Stage/Volume

Basin, node and link data taken from the approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R13677805244

Stage(ft)	Volume(af)
67.000	0.0000
68.000	0.0800
69.000	0.9400

70.000	9.1300
71.000	20.8100
72.000	37.5200
73.000	61.5600
74.000	92.2300
75.000	158.0300
76.000	224.3800
77.000	290.8500

Name: NED29 Base Flow(cfs): 0.000 Init Stage(ft): 69.000
Group: NED Export Warn Stage(ft): 76.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
67.000	0.0000
68.000	0.0300
69.000	17.4100
70.000	56.2900
71.000	112.0300
72.000	188.5600
73.000	281.7500
74.000	397.7400
75.000	537.0700
76.000	729.8400

Name: OFF05 Base Flow(cfs): 0.000 Init Stage(ft): 71.500
Group: NED Export Warn Stage(ft): 75.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
70.520	0.0000
71.000	1.5000
72.000	11.7900
73.000	39.4500
74.000	77.7100
75.000	134.7400

Name: OFF06 Base Flow(cfs): 0.000 Init Stage(ft): 70.550
Group: NED Export Warn Stage(ft): 75.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
70.550	0.0000
71.000	48.8100
72.000	165.9900
73.000	299.1700
74.000	480.3300
75.000	753.7900

Name: OFF7-1 Base Flow(cfs): 0.000 Init Stage(ft): 67.000
Group: NED Export Warn Stage(ft): 72.000
Type: Stage/Area

Upstream end of channel (east of Absher Rd)

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Area(ac)
67.000	0.0100
72.000	0.0200

Name: OFF7-2 Base Flow(cfs): 0.000 Init Stage(ft): 67.000
Group: NED Export Warn Stage(ft): 72.000
Type: Stage/Volume

Downstream end of channel @ western property bndy

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
67.000	0.0100
72.000	0.0200

Name: S-62 Base Flow(cfs): 0.000 Init Stage(ft): 57.000
Group: BASE Warn Stage(ft): 64.000
Type: Stage/Area

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

Stage(ft)	Area(ac)

Cross Sections

Name: Cyril Rd Group: BASE

Encroachment: No

Information from Dewberry report April 2014.

Station(ft)	Elevation(ft)	Manning's N
0.000	62.720	0.000000
100.000	61.350	0.000000
200.000	60.130	0.000000
300.000	59.510	0.000000
400.000	59.430	0.000000
500.000	59.460	0.000000
600.000	59.510	0.000000
700.000	59.360	0.000000
800.000	59.260	0.000000
900.000	59.340	0.000000
1000.000	59.310	0.000000
1100.000	59.390	0.000000
1200.000	59.340	0.000000
1300.000	59.980	0.000000
1400.000	60.660	0.000000
1500.000	60.810	0.000000
1600.000	61.280	0.000000
1700.000	62.520	0.000000

Name: Hendon Weir Group: BASE
Encroachment: No

Information from Dewberry report April 2014.

Station(ft)	Elevation(ft)	Manning's N
0.000	64.000	0.000000
520.000	61.000	0.000000
800.000	61.000	0.000000
1025.000	64.000	0.000000

Name: NED01-1 Group: NED Export
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	70.000	0.000000
2.000	70.000	0.000000
90.000	69.000	0.000000
112.000	68.500	0.000000
134.000	68.100	0.000000
186.000	68.000	0.000000

205.000	67.600	0.000000
230.000	67.100	0.000000
235.000	67.000	0.000000
246.000	67.400	0.000000
247.000	67.400	0.000000
254.000	67.100	0.000000
265.000	67.000	0.000000
301.000	67.000	0.000000
309.000	66.900	0.000000
315.000	66.700	0.000000
339.000	66.000	0.000000
356.000	66.000	0.000000
358.000	65.800	0.000000
379.000	66.000	0.000000
429.000	67.000	0.000000
437.000	67.300	0.000000
454.000	68.000	0.000000
623.000	68.100	0.000000
716.000	68.100	0.000000
726.000	68.200	0.000000
783.000	68.200	0.000000
851.000	68.600	0.000000
890.000	69.000	0.000000
1279.000	69.000	0.000000
1317.000	68.700	0.000000
1526.000	69.000	0.000000
1949.000	69.000	0.000000
2027.000	69.700	0.000000
2087.000	70.000	0.000000
2100.000	70.000	0.000000

Name: NED09 Group: NED Export
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	70.000	0.000000
161.000	70.000	0.000000
268.000	69.400	0.000000
312.000	69.100	0.000000
397.000	69.000	0.000000
1236.000	69.000	0.000000
1338.000	68.900	0.000000
1342.000	69.000	0.000000
1399.000	69.000	0.000000
1536.000	68.000	0.000000
1587.000	68.100	0.000000
1628.000	68.200	0.000000
1643.000	68.000	0.000000

1796.000	68.000	0.000000
1917.000	69.000	0.000000
1957.000	69.000	0.000000
1975.000	68.700	0.000000
1979.000	68.600	0.000000
1988.000	68.600	0.000000
2040.000	68.000	0.000000
2046.000	68.000	0.000000
2131.000	68.500	0.000000
2226.000	69.000	0.000000
2413.000	69.000	0.000000
2735.000	70.000	0.000000

Name: NED10 Group: NED Export
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	72.600	0.000000
2.000	72.600	0.000000
7.000	72.200	0.000000
9.000	72.300	0.000000
10.000	72.000	0.000000
11.000	71.800	0.000000
13.000	71.500	0.000000
14.000	71.200	0.000000
15.000	71.000	0.000000
17.000	70.400	0.000000
19.000	70.000	0.000000
58.000	70.000	0.000000
59.000	69.900	0.000000
62.000	70.000	0.000000
70.000	70.000	0.000000
107.000	69.800	0.000000
221.000	70.000	0.000000
349.000	70.000	0.000000
381.000	69.600	0.000000
390.000	69.500	0.000000
459.000	69.600	0.000000
475.000	69.800	0.000000
501.000	69.900	0.000000
814.000	69.900	0.000000
1580.000	70.000	0.000000
1694.000	70.000	0.000000
1927.000	71.100	0.000000
2687.000	70.700	0.000000

Name: NED11 Group: NED Export

Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	71.000	0.000000
1.000	71.000	0.000000
51.000	70.700	0.000000
52.000	70.700	0.000000
180.000	70.000	0.000000
537.000	70.000	0.000000
600.000	70.500	0.000000
660.000	71.000	0.000000

Name: NED12 Group: NED Export
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	74.000	0.000000
1.000	74.000	0.000000
17.000	73.600	0.000000
39.000	73.100	0.000000
47.000	73.100	0.000000
104.000	73.000	0.000000
127.000	72.500	0.000000
150.000	72.000	0.000000
183.000	72.000	0.000000
185.000	72.100	0.000000
194.000	72.400	0.000000
198.000	72.500	0.000000
199.000	72.600	0.000000
201.000	72.800	0.000000
203.000	73.000	0.000000
207.000	73.100	0.000000
212.000	73.100	0.000000
225.000	73.600	0.000000
237.000	74.000	0.000000

Name: NED13-1 Group: NED Export
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	71.000	0.000000

305.000	71.000	0.000000
415.000	71.100	0.000000
426.000	71.200	0.000000
512.000	71.800	0.000000
525.000	71.800	0.000000
549.000	72.000	0.000000
735.000	73.000	0.000000
754.000	73.000	0.000000

Name: NED13-2 Group: NED Export
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	71.000	0.000000
305.000	71.000	0.000000
415.000	71.100	0.000000
426.000	71.200	0.000000
512.000	71.800	0.000000
525.000	71.800	0.000000
549.000	72.000	0.000000
735.000	73.000	0.000000
754.000	73.000	0.000000

Name: NED28 Group: NED Export
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	73.100	0.000000
3.000	73.000	0.000000
25.000	73.000	0.000000
29.000	73.100	0.000000
31.000	73.100	0.000000
34.000	73.000	0.000000
39.000	73.000	0.000000
43.000	73.200	0.000000
52.000	73.800	0.000000
53.000	73.800	0.000000
55.000	74.000	0.000000
71.000	74.000	0.000000
77.000	73.700	0.000000
82.000	73.500	0.000000
83.000	73.400	0.000000
101.000	73.100	0.000000
107.000	73.100	0.000000

193.000	73.000	0.000000
250.000	72.000	0.000000
268.000	71.300	0.000000
275.000	71.000	0.000000
366.000	71.100	0.000000
450.000	71.000	0.000000
458.000	71.000	0.000000
479.000	71.200	0.000000
525.000	72.000	0.000000
819.000	73.000	0.000000
946.000	73.000	0.000000

Name: NED29 Group: NED Export
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	71.000	0.000000
79.000	70.000	0.000000
298.000	70.000	0.000000
311.000	70.400	0.000000
332.000	70.700	0.000000
335.000	70.500	0.000000
349.000	70.000	0.000000
397.000	70.000	0.000000
401.000	69.900	0.000000
416.000	69.600	0.000000
435.000	69.500	0.000000
466.000	70.000	0.000000
707.000	70.000	0.000000
714.000	70.200	0.000000
733.000	71.000	0.000000

Pipes

Name: Ajay Culvert From Node: Lake Ajay S Length(ft): 57.00
Group: BASE To Node: Lake Ajay N Count: 1
Friction Equation: Automatic
Solution Algorithm: Automatic
Flow: Both
Entrance Loss Coef: 0.50
Exit Loss Coef: 1.00
Bend Loss Coef: 0.00
Outlet Ctrl Spec: Use dc or tw
Inlet Ctrl Spec: Use dc
Stabilizer Option: None

	UPSTREAM	DOWNSTREAM
Geometry:	Circular	Circular
Span(in):	24.00	24.00
Rise(in):	24.00	24.00
Invert(ft):	55.400	55.100
Manning's N:	0.012000	0.012000
Top Clip(in):	0.000	0.000
Bot Clip(in):	0.000	0.000

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Information from Dewberry report April 2014. Dewberry model had only 1 - 24" culvert.

Name:	OFF7 P	From Node:	OFF7-2	Length(ft):	20.00
Group:	NED Export	To Node:	NED14	Count:	1
				Friction Equation:	Automatic
	UPSTREAM	DOWNSTREAM		Solution Algorithm:	Automatic
Geometry:	Horz Ellipse	Horz Ellipse		Flow:	Both
Span(in):	60.00	60.00		Entrance Loss Coef:	0.90
Rise(in):	31.00	31.00		Exit Loss Coef:	0.50
Invert(ft):	66.260	66.080		Bend Loss Coef:	0.00
Manning's N:	0.024000	0.024000		Outlet Ctrl Spec:	Use dc or tw
Top Clip(in):	0.000	0.000		Inlet Ctrl Spec:	Use dn
Bot Clip(in):	0.000	0.000		Stabilizer Option:	None

Upstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Groove end projecting

Downstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Groove end projecting

DWMA Survey-Under dirt road western bndy

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

==========
==== Channels ==========
==========

Name:	C-29A	From Node:	S-62	Length(ft):	6740.00
Group:	BASE	To Node:	Lake Ajay N	Count:	1
	UPSTREAM	DOWNSTREAM		Friction Equation:	Automatic
Geometry:	Trapezoidal	Trapezoidal		Solution Algorithm:	Automatic
Invert(ft):	47.000	47.000		Flow:	Both
TClpInitZ(ft):	9999.000	9999.000		Contraction Coef:	0.100
Manning's N:	0.033000	0.033000		Expansion Coef:	0.300
Top Clip(ft):	0.000	0.000		Entrance Loss Coef:	0.000
Bot Clip(ft):	0.000	0.000		Exit Loss Coef:	0.000
Main XSec:				Outlet Ctrl Spec:	Use dc or tw
AuxElev1(ft):				Inlet Ctrl Spec:	Use dc

Aux XSec1:			Stabilizer Option:	None
AuxElev2(ft):				
Aux XSec2:				
Top Width(ft):				
Depth(ft):				
Bot Width(ft):	10.000	10.000		
LtSdSlp(h/v):	2.00	2.00		
RtSdSlp(h/v):	2.00	2.00		

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

Name:	C-29B	From Node: Lake Ajay N	Length(ft):	4800.00
Group:	BASE	To Node: E Toho	Count:	1

	UPSTREAM	DOWNSTREAM		
Geometry:	Trapezoidal	Trapezoidal	Friction Equation:	Automatic
Invert(ft):	47.000	47.000	Solution Algorithm:	Automatic
TClpInitZ(ft):	9999.000	9999.000	Flow:	Both
Manning's N:	0.033000	0.033000	Contraction Coef:	0.100
Top Clip(ft):	0.000	0.000	Expansion Coef:	0.300
Bot Clip(ft):	0.000	0.000	Entrance Loss Coef:	0.000
Main XSec:			Exit Loss Coef:	0.000
AuxElev1(ft):			Outlet Ctrl Spec:	Use dc or tw
Aux XSec1:			Inlet Ctrl Spec:	Use dc
AuxElev2(ft):			Stabilizer Option:	None
Aux XSec2:				
Top Width(ft):				
Depth(ft):				
Bot Width(ft):	10.000	10.000		
LtSdSlp(h/v):	2.00	2.00		
RtSdSlp(h/v):	2.00	2.00		

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

Name:	OFF7	From Node: OFF7-1	Length(ft):	1400.00
Group:	NED Export	To Node: OFF7-2	Count:	1

	UPSTREAM	DOWNSTREAM		
Geometry:	Trapezoidal	Trapezoidal	Friction Equation:	Automatic
Invert(ft):	67.000	67.000	Solution Algorithm:	Automatic
TClpInitZ(ft):	9999.000	9999.000	Flow:	Both
Manning's N:	0.040000	0.040000	Contraction Coef:	0.100
Top Clip(ft):	0.000	0.000	Expansion Coef:	0.300
Bot Clip(ft):	0.000	0.000	Entrance Loss Coef:	0.000
Main XSec:			Exit Loss Coef:	0.000
AuxElev1(ft):			Outlet Ctrl Spec:	Use dc or tw
Aux XSec1:			Inlet Ctrl Spec:	Use dn
AuxElev2(ft):			Stabilizer Option:	None
Aux XSec2:				
Top Width(ft):				

```
     Depth(ft):
 Bot Width(ft): 10.000         10.000
  LtSdSlp(h/v): 1.50           1.50
  RtSdSlp(h/v): 1.50           1.50

Crossing 2 - Site visit 11/12/09

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

================================================================================
==== Drop Structures ===========================================================
================================================================================

         Name: NED29 P             From Node: NED29             Length(ft): 21.00
        Group: NED Export            To Node: NED14                  Count: 1

               UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
     Geometry: Circular       Circular                 Solution Algorithm: Automatic
     Span(in): 24.00          24.00                               Flow: Both
     Rise(in): 24.00          24.00                    Entrance Loss Coef: 0.500
   Invert(ft): 68.110         67.730                       Exit Loss Coef: 0.500
  Manning's N: 0.024000       0.024000                   Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                       Inlet Ctrl Spec: Use dn
 Bot Clip(in): 0.000          0.000                          Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular CMP: Projecting

Downstream FHWA Inlet Edge Description:
Circular CMP: Projecting

DWMA Survey-Under dirt drive across wetlands west of Lake Myrtle

Artificial weir added to maintain upstream initial stage elevation.
Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

*** Weir 1 of 1 for Drop Structure NED29 P ***
                                                                          TABLE
                  Count: 1                       Bottom Clip(in): 0.000
                   Type: Vertical: Fread            Top Clip(in): 0.000
                   Flow: Both                     Weir Disc Coef: 3.200
               Geometry: Rectangular            Orifice Disc Coef: 0.600

               Span(in): 9999.00                      Invert(ft): 69.000
               Rise(in): 9999.00                 Control Elev(ft): 69.000


--------------------------------------------------------------------------------------------------
         Name: OFF5                From Node: OFF05             Length(ft): 50.00
        Group: NED Export            To Node: OFF06                  Count: 1

               UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
```

```
     Geometry: Circular       Circular                  Solution Algorithm: Automatic
     Span(in): 18.00          18.00                                Flow: Both
     Rise(in): 18.00          18.00                     Entrance Loss Coef: 0.500
   Invert(ft): 69.000         69.000                        Exit Loss Coef: 1.000
  Manning's N: 0.012000       0.012000                    Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                       Inlet Ctrl Spec: Use dn
 Bot Clip(in): 0.000          0.000                         Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Crossing 1 - Field visit 11/12/09

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441


*** Weir 1 of 2 for Drop Structure OFF5 ***
                                                                                TABLE
                  Count: 1                       Bottom Clip(in): 0.000
                   Type: Horizontal                 Top Clip(in): 0.000
                   Flow: Both                    Weir Disc Coef: 3.000
               Geometry: Rectangular           Orifice Disc Coef: 0.600

               Span(in): 48.00                       Invert(ft): 73.000
               Rise(in): 60.00                  Control Elev(ft): 73.000

*** Weir 2 of 2 for Drop Structure OFF5 ***
                                                                                TABLE
                  Count: 1                       Bottom Clip(ft): 0.000
                   Type: Vertical: Mavis            Top Clip(ft): 0.000
                   Flow: Both                    Weir Disc Coef: 3.200
               Geometry: Trapezoidal           Orifice Disc Coef: 0.600

       Bottom Width(ft): 0.00                        Invert(ft): 71.500
       Left Sd Slp(h/v): 0.19                   Control Elev(ft): 71.500
      Right Sd Slp(h/v): 0.19              Struct Opening Dim(ft): 9999.00


-------------------------------------------------------------------------------------------------
         Name: OFF6                 From Node: OFF06              Length(ft): 40.00
        Group: NED Export             To Node: OFF7-1                   Count: 2

               UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
     Geometry: Circular       Circular                  Solution Algorithm: Automatic
     Span(in): 24.00          24.00                                Flow: Both
     Rise(in): 24.00          24.00                     Entrance Loss Coef: 0.900
   Invert(ft): 70.000         70.000                        Exit Loss Coef: 0.500
  Manning's N: 0.012000       0.012000                    Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                       Inlet Ctrl Spec: Use dn
```

```
 Bot Clip(in): 0.000          0.000                          Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

Crossing 2 - Site visit 11/12/09 (Absher Rd)

Artificial weir added to maintain upstream initial stage elevation.
Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

*** Weir 1 of 1 for Drop Structure OFF6 ***
                                                                                TABLE
                  Count: 1                       Bottom Clip(in): 0.000
                   Type: Vertical: Fread            Top Clip(in): 0.000
                   Flow: Both                     Weir Disc Coef: 3.200
               Geometry: Rectangular            Orifice Disc Coef: 0.600

               Span(in): 9999.00                        Invert(ft): 70.550
               Rise(in): 9999.00                 Control Elev(ft): 70.550


================================================================================
==== Weirs =====================================================================
================================================================================

         Name: Cyril Rd            From Node: Lake Ajay S
        Group: BASE                  To Node: Lake Ajay N
         Flow: Both                    Count: 1
         Type: Vertical: Paved      Geometry: Irregular

                       XSec: Cyril Rd
                  Invert(ft): 59.260
       Control Elevation(ft): 59.260
      Struct Opening Dim(ft): 9999.00
                                          TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
          Weir Discharge Coef: 2.900
      Orifice Discharge Coef: 0.600

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

--------------------------------------------------------------------------------------------------
         Name: Hendon Weir         From Node: Lake Hendon
        Group: BASE                  To Node: Lake Ajay S
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                       XSec: Hendon Weir
```

```
                Invert(ft): 61.000
       Control Elevation(ft): 61.000
      Struct Opening Dim(ft): 9999.00
                                        TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
        Weir Discharge Coef: 3.000
      Orifice Discharge Coef: 0.600

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

-------------------------------------------------------------------------------------------------
         Name: NED01-1             From Node: NED01
        Group: NED Export            To Node: MARYJANE TW
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                      XSec: NED01-1
                Invert(ft): 65.800
       Control Elevation(ft): 66.300
      Struct Opening Dim(ft): 9999.00
                                        TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
        Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED09               From Node: NED09
        Group: NED Export            To Node: NED01
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                      XSec: NED09
                Invert(ft): 68.000
       Control Elevation(ft): 68.100
      Struct Opening Dim(ft): 9999.00
                                        TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
        Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED10               From Node: NED10
        Group: NED Export            To Node: NED14
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular
```

```
                      XSec: NED10
                 Invert(ft): 69.500
       Control Elevation(ft): 69.500
      Struct Opening Dim(ft): 9999.00
                                          TABLE
            Bottom Clip(ft): 0.000
               Top Clip(ft): 0.000
         Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600

Basin, node and link data taken from the approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R13677805244

------------------------------------------------------------------------------------------------
         Name: NED11               From Node: NED11
        Group: NED Export            To Node: NED01
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                      XSec: NED11
                 Invert(ft): 70.000
       Control Elevation(ft): 70.000
      Struct Opening Dim(ft): 9999.00
                                          TABLE
            Bottom Clip(ft): 0.000
               Top Clip(ft): 0.000
         Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

------------------------------------------------------------------------------------------------
         Name: NED12               From Node: NED12
        Group: NED Export            To Node: NED10
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                      XSec: NED12
                 Invert(ft): 72.000
       Control Elevation(ft): 72.000
      Struct Opening Dim(ft): 9999.00
                                          TABLE
            Bottom Clip(ft): 0.000
               Top Clip(ft): 0.000
         Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

------------------------------------------------------------------------------------------------
         Name: NED13-1             From Node: NED13
        Group: NED Export            To Node: NED10
```

```
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                        XSec: NED13-1
                  Invert(ft): 71.000
       Control Elevation(ft): 71.000
      Struct Opening Dim(ft): 9999.00
                                        TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
           Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED13-2             From Node: NED13
        Group: NED Export            To Node: NED11
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                        XSec: NED13-2
                  Invert(ft): 71.000
       Control Elevation(ft): 71.000
      Struct Opening Dim(ft): 9999.00
                                        TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
           Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED28               From Node: NED28
        Group: NED Export            To Node: NED29
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                        XSec: NED28
                  Invert(ft): 71.000
       Control Elevation(ft): 71.000
      Struct Opening Dim(ft): 9999.00
                                        TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
           Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
```

```
         Name: NED29               From Node: NED29
        Group: NED Export            To Node: NED14
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                      XSec: NED29
                Invert(ft): 69.500
       Control Elevation(ft): 69.500
      Struct Opening Dim(ft): 9999.00
                                        TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
          Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: S-62                From Node: Lake Hart
        Group: BASE                  To Node: S-62
         Flow: Positive                Count: 1
         Type: Vertical: Mavis      Geometry: Rectangular

                    Span(in): 168.00
                    Rise(in): 146.30
                  Invert(ft): 54.300
       Control Elevation(ft): 54.300
                                        TABLE
             Bottom Clip(in): 0.000
                Top Clip(in): 0.000
          Weir Discharge Coef: 3.200
      Orifice Discharge Coef: 0.600

Information from Dewberry approved MDR report April 2014.(SFWMD Permit# 48-02392-P)

===============================================================================================
==== Hydrology Simulations ====================================================================
===============================================================================================

         Name: 100Y-24H
     Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100Y-24H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 24.00
          Rainfall File: Flmod
    Rainfall Amount(in): 10.40

Time(hrs)       Print Inc(min)
--------------- ---------------
30.000          5.00

-------------------------------------------------------------------------------------------------
```

Name: 100Y-72H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100Y-72H.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 12.00

Time(hrs)	Print Inc(min)
90.000	5.00

Name: 100YR-24H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100YR-24H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Flmod
Rainfall Amount(in): 10.40

Time(hrs)	Print Inc(min)
999.000	15.00

Name: 100YR-24HR-BS
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100YR-24HR-BS.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Orange
Rainfall Amount(in): 11.30

Time(hrs)	Print Inc(min)
60.000	5.00

Name: 100YR-72H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100YR-72H.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 13.50

Time(hrs)	Print Inc(min)
90.000	5.00

Name: 10Y-24H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\10Y-24H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Flmod
Rainfall Amount(in): 6.00

Time(hrs)	Print Inc(min)
30.000	5.00

Name: 10Y-72H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\10Y-72H.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 8.00

Time(hrs)	Print Inc(min)
90.000	5.00

Name: 10YR-24H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\10YR-24H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Flmod
Rainfall Amount(in): 6.50

Time(hrs)	Print Inc(min)
999.000	5.00

Name: 10YR-72H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\10YR-72H.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 8.50

Time(hrs)	Print Inc(min)
999.000	5.00

Name: 50YR-24HR
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\50YR-24HR.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Flmod
Rainfall Amount(in): 8.40

Time(hrs)	Print Inc(min)
30.000	5.00

==========
==== Routing Simulations ==========
==========

Name: 100Y-24H Hydrology Sim: 100Y-24H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100Y-24H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 150.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

Value of 11.3" & Orange used with Dewberry Model ICPR3
Value of 10" & FL Mod used with P&B Cyrils Narcoossee Intersection ICPR4 (10" value from SFWMD Vol II sheet A-16 (49 of 58)
Note: pay attention to GROUPS

Time(hrs)	Print Inc(min)
10.000	15.000
999.000	60.000

Group	Run
BASE	Yes

Name: 100Y-24H-BS Hydrology Sim: 100YR-24HR-BS
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100Y-24H-BS.I32

Execute: No Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 0.50 Delta Z Factor: 0.00100
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 100.00

Min Calc Time(sec): 0.3000 Max Calc Time(sec): 60.0000
Boundary Stages: BS 100yr24hr Boundary Flows:

Value of 11.3" & Orange used with Dewberry Model ICPR3
Value of 10" & FL Mod used with P&B Cyrils Narcoossee Intersection ICPR4 (10" value from SFWMD Vol II sheet A-16 (49 of 58)

Time(hrs)	Print Inc(min)
999.000	15.000

Group	Run
BASE	Yes
BASE-POST	Yes
NED Export	Yes

Name: 100Y-72H Hydrology Sim: 100Y-72H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100Y-72H.I32

Execute: No Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 100.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Ajay-S 100-72 Boundary Flows:

Time(hrs)	Print Inc(min)
90.000	15.000

Group	Run
BASE	Yes

Name: 100YR-24H Hydrology Sim: 100YR-24H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100YR-24H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 30.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000

Boundary Stages: Boundary Flows:

Time(hrs)	Print Inc(min)
0.000	30.000
10.000	15.000
30.000	60.000

Group	Run
BASE-POST	Yes
NED Export	Yes

Name: 100YR-72H Hydrology Sim: 100YR-72H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100YR-72H.I32

Execute: No Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 90.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 90.0000
Boundary Stages: Boundary Flows:

Time(hrs)	Print Inc(min)
90.000	15.000

Group	Run
BASE-POST	Yes
NED Export	Yes

Name: 10Y-24H Hydrology Sim: 10Y-24H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100Y-24H.I32

Execute: No Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 30.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000

Boundary Stages: Ajay-S 10-24 Boundary Flows:

Time(hrs)	Print Inc(min)
11.750	15.000
12.500	5.000
999.000	15.000

Group	Run
BASE	Yes

Name: 10Y-72H Hydrology Sim: 10Y-72H
Filename: Z:\2017\17-042 TAVISTOCK - SUNBRIDGE\CYRILS DR\NARCOSSEE TO ABSHER\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\10Y-72H.I32

Execute: No Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 100.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Ajay-S 10-72 Boundary Flows:

Narcoossee intersection Tailwaters LAke Ajay N:
100/24=61.40
100/72=61.40
10/24=57.80
10/72=57.80

Time(hrs)	Print Inc(min)
59.500	15.000
60.500	5.000
900.000	15.000

Group	Run
BASE	Yes

Name: 10YR-24H Hydrology Sim: 10YR-24H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100YR-24H.I32

Execute: No Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 30.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

Time(hrs)	Print Inc(min)
30.000	15.000

Group	Run
BASE-POST	Yes
NED Export	Yes

Name: 10YR-72H Hydrology Sim: 10YR-72H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\10YR-72H.I32

Execute: No Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 90.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 90.0000
Boundary Stages: Boundary Flows:

Time(hrs)	Print Inc(min)
90.000	15.000

Group	Run
BASE-POST	Yes
NED Export	Yes

Name: 50Y-24H Hydrology Sim: 50YR-24HR
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\50Y-24H.I32

Execute: Yes Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000

Start Time(hrs): 0.000 End Time(hrs): 150.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

Time(hrs)	Print Inc(min)
30.000	15.000

Group	Run
BASE	Yes
BASE-POST	Yes
NED Export	Yes

Boundary Conditions

Name: Ajay-S 10-24 Node: PONDE1 AJAY TW Type: Stage

Time(hrs)	Stage(ft)
0.000	58.500
9999.000	58.500

Name: Ajay-S 100-24 Node: PONDE1 AJAY TW Type: Stage

Time(hrs)	Stage(ft)
0.000	61.400
999.000	61.400

Name: Ajay-S 10-72 Node: PONDE1 AJAY TW Type: Stage

Time(hrs)	Stage(ft)
0.000	57.800
999.000	57.800

Name: Ajay-S 100-72 Node: PONDE1 AJAY TW Type: Stage

Time(hrs)	Stage(ft)
0.000	61.400
999.000	61.400

Name: BS 100yr24hr Node: E Toho Type: Stage

Time(hrs)	Stage(ft)
0.000	57.000
3.000	57.000
15.450	61.000
100.000	61.000

Name: BS 100yr24hr Node: Lake Hart Type: Stage

Time(hrs)	Stage(ft)
0.000	60.000
3.000	60.000
13.110	63.000
100.000	63.000

Name: NED14-100YR-24H Node: Type: Stage

Time(hrs)	Stage(ft)
0.000	67.000
0.500	67.000
1.000	67.000
1.500	67.000
2.000	67.000
2.500	67.000
3.000	67.000
3.500	67.000
4.000	67.000
4.500	67.000
5.000	67.000
5.500	67.000
6.000	67.000
6.500	67.010
7.000	67.010
7.500	67.010
8.000	67.020
8.500	67.020
9.000	67.040
9.500	67.060
10.000	67.090
10.250	67.110
10.500	67.120
10.750	67.140
11.000	67.160
11.250	67.190
11.500	67.210

11.750	67.240
12.000	67.280
12.250	67.330
12.500	67.400
12.750	67.470
13.000	67.540
13.250	67.610
13.500	67.680
13.750	67.740
14.000	67.810
14.250	67.870
14.500	67.920
14.750	67.980
15.000	68.030
15.250	68.080
15.500	68.130
15.750	68.170
16.000	68.200
16.250	68.240
16.500	68.260
16.750	68.290
17.000	68.310
17.250	68.330
17.500	68.350
17.750	68.360
18.000	68.380
18.250	68.390
18.500	68.400
18.750	68.410
19.000	68.420
19.250	68.430
19.500	68.440
19.750	68.440
20.000	68.440
20.250	68.450
20.500	68.450
20.750	68.450
21.000	68.450
21.250	68.450
21.500	68.440
21.750	68.440
22.000	68.440
22.250	68.440
22.500	68.430
22.750	68.430
23.000	68.430
23.250	68.430
23.500	68.420
23.750	68.420
24.000	68.420
24.250	68.410
24.500	68.410

24.750	68.400
25.000	68.400
25.250	68.400
25.500	68.390
25.750	68.390
26.000	68.380
26.250	68.380
26.500	68.370
26.750	68.370
27.000	68.370
27.250	68.360
27.500	68.360
27.750	68.350
28.000	68.350
28.250	68.340
28.500	68.340
28.750	68.330
29.000	68.330
29.250	68.320
29.500	68.320
29.750	68.310
30.000	68.310
31.000	68.290
32.000	68.270
33.000	68.260
34.000	68.240
35.000	68.230
36.000	68.220
37.000	68.200
38.000	68.190
39.000	68.180
40.000	68.170
41.000	68.160
42.000	68.140
43.000	68.130
44.000	68.120
45.000	68.110
46.000	68.090
47.000	68.080
48.000	68.070
49.000	68.060
50.000	68.050
51.000	68.040
52.000	68.030
53.000	68.020
54.000	68.010
55.000	68.010
56.000	68.000
57.000	67.990
58.000	67.980
59.000	67.970
60.000	67.960

61.000	67.950
62.000	67.950
63.000	67.940
64.000	67.930
65.000	67.920
66.000	67.910
67.000	67.910
68.000	67.900
69.000	67.890
70.000	67.890
71.000	67.880
72.000	67.870
73.000	67.870
74.000	67.860
75.000	67.860
76.000	67.850
77.000	67.850
78.000	67.840
79.000	67.840
80.000	67.840
81.000	67.830
82.000	67.830
83.000	67.820
84.000	67.820
85.000	67.820
86.000	67.810
87.000	67.810
88.000	67.810
89.000	67.800
90.000	67.800
91.000	67.790
92.000	67.790
93.000	67.780
94.000	67.780
95.000	67.770
96.000	67.770
97.000	67.770
98.000	67.760
99.000	67.760
100.000	67.750
101.000	67.750
102.000	67.750
103.000	67.740
104.000	67.740
105.000	67.730
106.000	67.730
107.000	67.730
108.000	67.720
109.000	67.720
110.000	67.710
111.000	67.710
112.000	67.710

113.000	67.700
114.000	67.700
115.000	67.700
116.000	67.690
117.000	67.690
118.000	67.690
119.000	67.680
120.000	67.680
121.000	67.680
122.000	67.670
123.000	67.670
124.000	67.670
125.000	67.670
126.000	67.660
127.000	67.660
128.000	67.660
129.000	67.660
130.000	67.660
131.000	67.650
132.000	67.650
133.000	67.650
134.000	67.650
135.000	67.650
136.000	67.640
137.000	67.640
138.000	67.640
139.000	67.640
140.000	67.640
141.000	67.630
142.000	67.630
143.000	67.630
144.000	67.630
145.000	67.630
146.000	67.630
147.000	67.620
148.000	67.620
149.000	67.620
150.000	67.620
151.000	67.620
152.000	67.620
153.000	67.620
154.000	67.610
155.000	67.610
156.000	67.610
157.000	67.610
158.000	67.610
159.000	67.610
160.000	67.610
161.000	67.600
162.000	67.600
163.000	67.600
164.000	67.600

165.000	67.600
166.000	67.600
167.000	67.600
168.000	67.600
169.000	67.600
170.000	67.590
171.000	67.590
172.000	67.590
173.000	67.590
174.000	67.590
175.000	67.590
176.000	67.590
177.000	67.590
178.000	67.580
179.000	67.580
180.000	67.580
181.000	67.580
182.000	67.580
183.000	67.580
184.000	67.580
185.000	67.580
186.000	67.580
187.000	67.580
188.000	67.570
189.000	67.570
190.000	67.570
191.000	67.570
192.000	67.570
193.000	67.570
194.000	67.570
195.000	67.570
196.000	67.570
197.000	67.570
198.000	67.560
199.000	67.560
200.000	67.560
201.000	67.560
202.000	67.560
203.000	67.560
204.000	67.560
205.000	67.560
206.000	67.560
207.000	67.560
208.000	67.560
209.000	67.560
210.000	67.550
211.000	67.550
212.000	67.550
213.000	67.550
214.000	67.550
215.000	67.550
216.000	67.550

217.000	67.550
218.000	67.550
219.000	67.550
220.000	67.550
221.000	67.550
222.000	67.550
223.000	67.550
224.000	67.540
225.000	67.540
226.000	67.540
227.000	67.540
228.000	67.540
229.000	67.540
230.000	67.530
231.000	67.530
232.000	67.530
233.000	67.530
234.000	67.530
235.000	67.520
236.000	67.520
237.000	67.520
238.000	67.520
239.000	67.520
240.000	67.510
241.000	67.510
242.000	67.510
243.000	67.510
244.000	67.510
245.000	67.500
246.000	67.500
247.000	67.500
248.000	67.500
249.000	67.490
250.000	67.490
251.000	67.490
252.000	67.490
253.000	67.490
254.000	67.480
255.000	67.480
256.000	67.480
257.000	67.480
258.000	67.470
259.000	67.470
260.000	67.470
261.000	67.470
262.000	67.460
263.000	67.460
264.000	67.460
265.000	67.460
266.000	67.450
267.000	67.450
268.000	67.450

269.000	67.450
270.000	67.440
271.000	67.440
272.000	67.440
273.000	67.440
274.000	67.430
275.000	67.430
276.000	67.430
277.000	67.430
278.000	67.430
279.000	67.420
280.000	67.420
281.000	67.420
282.000	67.420
283.000	67.410
284.000	67.410
285.000	67.410
286.000	67.410
287.000	67.400
288.000	67.400
289.000	67.400
290.000	67.400
291.000	67.390
292.000	67.390
293.000	67.390
294.000	67.390
295.000	67.380
296.000	67.380
297.000	67.380
298.000	67.380
299.000	67.370
300.000	67.370

Name: NED14-10YR-24HR Node: NED14 Type: Stage

Time(hrs)	Stage(ft)
0.000	67.000
0.250	67.000
0.500	67.000
0.750	67.000
1.000	67.000
1.250	67.000
1.500	67.000
1.750	67.000
2.000	67.000
2.250	67.000
2.500	67.000
2.750	67.000
3.000	67.000
3.250	67.000

3.500	67.000
3.750	67.000
4.000	67.000
4.250	67.000
4.501	67.000
4.750	67.000
5.000	67.000
5.250	67.000
5.500	67.000
5.750	67.000
6.000	67.000
6.251	67.000
6.501	67.000
6.750	67.000
7.000	67.000
7.250	67.000
7.500	67.000
7.750	67.000
8.000	67.000
8.250	67.010
8.501	67.010
8.750	67.010
9.000	67.010
9.250	67.010
9.501	67.010
9.750	67.010
10.001	67.010
10.250	67.020
10.500	67.020
10.750	67.020
11.000	67.030
11.250	67.040
11.500	67.050
11.751	67.060
12.000	67.070
12.251	67.100
12.500	67.130
12.751	67.160
13.001	67.190
13.250	67.230
13.500	67.280
13.750	67.330
14.001	67.380
14.251	67.430
14.500	67.480
14.750	67.520
15.000	67.570
15.250	67.610
15.500	67.650
15.750	67.690
16.000	67.730
16.250	67.770

16.501	67.800
16.750	67.830
17.000	67.850
17.250	67.880
17.500	67.910
17.750	67.930
18.000	67.950
18.250	67.980
18.500	68.000
18.750	68.020
19.000	68.040
19.250	68.050
19.500	68.070
19.750	68.080
20.000	68.100
20.250	68.110
20.500	68.120
20.750	68.130
21.000	68.140
21.250	68.150
21.500	68.150
21.750	68.160
22.000	68.160
22.250	68.170
22.500	68.170
22.750	68.170
23.000	68.180
23.250	68.180
23.500	68.180
23.750	68.180
24.000	68.180
24.250	68.190
24.500	68.190
24.750	68.190
25.000	68.190
25.250	68.190
25.500	68.190
25.750	68.190
26.000	68.190
26.250	68.190
26.501	68.190
26.750	68.180
27.000	68.180
27.250	68.180
27.500	68.180
27.750	68.180
28.000	68.180
28.250	68.180
28.500	68.170
28.750	68.170
29.000	68.170
29.250	68.170

29.500	68.170
29.750	68.160
30.000	68.160
30.250	68.160
30.500	68.160
30.750	68.160
31.000	68.150
31.251	68.150
31.500	68.150
31.750	68.150
32.000	68.150
32.250	68.140
32.500	68.140
32.750	68.140
33.000	68.140
33.250	68.130
33.500	68.130
33.750	68.130
34.000	68.130
34.250	68.130
34.500	68.120
34.750	68.120
35.000	68.120
35.250	68.120
35.500	68.110
35.750	68.110
36.000	68.110
36.250	68.110
36.500	68.110
36.750	68.110
37.000	68.100
37.250	68.100
37.500	68.100
37.750	68.100
38.000	68.100
38.250	68.090
38.500	68.090
38.750	68.090
39.001	68.090
39.250	68.090
39.500	68.090
39.750	68.080
40.000	68.080
40.250	68.080
40.500	68.080
40.750	68.080
41.000	68.080
41.250	68.070
41.500	68.070
41.750	68.070
42.000	68.070
42.250	68.070

42.500	68.070
42.750	68.060
43.000	68.060
43.250	68.060
43.500	68.060
43.750	68.060
44.000	68.060
44.250	68.050
44.500	68.050
44.750	68.050
45.000	68.050
45.250	68.050
45.500	68.050
45.750	68.040
46.001	68.040
46.251	68.040
46.501	68.040
46.751	68.040
47.000	68.040
47.251	68.040
47.500	68.030
47.750	68.030
48.001	68.030
48.251	68.030
48.500	68.030
48.750	68.030
49.000	68.020
49.250	68.020
49.500	68.020
49.750	68.020
50.000	68.020
50.250	68.020
50.500	68.010
50.750	68.010
51.000	68.010
51.251	68.010
51.500	68.010
51.750	68.010
52.000	68.010
52.250	68.000
52.500	68.000
52.750	68.000
53.000	68.000
53.250	68.000
53.500	68.000
53.751	67.990
54.000	67.990
54.250	67.990
54.500	67.990
54.751	67.990
55.000	67.990
55.250	67.980

55.500	67.980
55.750	67.980
56.000	67.980
56.251	67.980
56.500	67.980
56.750	67.980
57.000	67.970
57.250	67.970
57.500	67.970
57.750	67.970
58.000	67.970
58.250	67.970
58.500	67.960
58.750	67.960
59.000	67.960
59.250	67.960
59.500	67.960
59.750	67.960
60.000	67.960
60.250	67.950
60.500	67.950
60.750	67.950
61.001	67.950
61.250	67.950
61.500	67.950
61.751	67.950
62.000	67.940
62.250	67.940
62.500	67.940
62.750	67.940
63.000	67.940
63.250	67.940
63.500	67.940
63.750	67.940
64.001	67.930
64.250	67.930
64.500	67.930
64.751	67.930
65.000	67.930
65.250	67.930
65.500	67.930
65.750	67.930
66.000	67.920
66.250	67.920
66.500	67.920
66.751	67.920
67.000	67.920
67.250	67.920
67.501	67.920
67.750	67.920
68.001	67.910
68.250	67.910

68.500	67.910
68.750	67.910
69.000	67.910
69.250	67.910
69.500	67.910
69.750	67.910
70.000	67.910
70.250	67.900
70.500	67.900
70.750	67.900
71.000	67.900
71.250	67.900
71.501	67.900
71.750	67.900
72.000	67.900
72.250	67.900
72.500	67.900
72.750	67.890
73.000	67.890
73.251	67.890
73.500	67.890
73.751	67.890
74.000	67.890
74.250	67.890
74.500	67.890
74.751	67.890
75.000	67.890
75.250	67.890
75.500	67.880
75.750	67.880
76.000	67.880
76.250	67.880
76.500	67.880
76.751	67.880
77.001	67.880
77.250	67.880
77.500	67.880
77.750	67.880
78.000	67.880
78.250	67.880
78.501	67.870
78.751	67.870
79.000	67.870
79.250	67.870
79.500	67.870
79.750	67.870
80.000	67.870
80.250	67.870
80.500	67.870
80.750	67.870
81.000	67.870
81.250	67.870

81.500	67.870
81.750	67.860
82.000	67.860
82.250	67.860
82.500	67.860
82.750	67.860
83.000	67.860
83.250	67.860
83.500	67.860
83.750	67.860
84.000	67.860
84.250	67.860
84.500	67.860
84.750	67.860
85.000	67.860
85.251	67.850
85.500	67.850
85.750	67.850
86.000	67.850
86.250	67.850
86.500	67.850
86.750	67.850
87.000	67.850
87.250	67.850
87.500	67.850
87.750	67.850
88.000	67.850
88.250	67.850
88.500	67.850
88.751	67.840
89.000	67.840
89.250	67.840
89.501	67.840
89.750	67.840
90.000	67.840
90.250	67.840
90.500	67.840
90.750	67.840
91.000	67.840
91.250	67.840
91.500	67.840
91.751	67.840
92.000	67.840
92.250	67.840
92.501	67.830
92.750	67.830
93.000	67.830
93.250	67.830
93.500	67.830
93.750	67.830
94.000	67.830
94.250	67.830

94.500	67.830
94.751	67.830
95.000	67.830
95.251	67.820
95.500	67.820
95.750	67.820
96.000	67.820
96.251	67.820
96.500	67.820
96.750	67.820
97.000	67.820
97.251	67.810
97.501	67.810
97.750	67.810
98.000	67.810
98.250	67.810
98.500	67.810
98.750	67.810
99.000	67.810
99.250	67.800
99.501	67.800
99.750	67.800
100.000	67.800
100.250	67.800
100.500	67.800
100.750	67.800
101.000	67.800
101.251	67.800
101.500	67.790
101.750	67.790
102.001	67.790
102.250	67.790
102.500	67.790
102.751	67.790
103.000	67.790
103.250	67.790
103.501	67.780
103.751	67.780
104.001	67.780
104.250	67.780
104.500	67.780
104.750	67.780
105.001	67.780
105.250	67.780
105.501	67.780
105.750	67.780
106.000	67.770
106.250	67.770
106.500	67.770
106.750	67.770
107.001	67.770
107.251	67.770

107.500	67.770
107.750	67.770
108.000	67.770
108.251	67.770
108.500	67.760
108.750	67.760
109.000	67.760
109.251	67.760
109.500	67.760
109.750	67.760
110.000	67.760
110.250	67.760
110.500	67.760
110.750	67.760
111.001	67.750
111.251	67.750
111.500	67.750
111.750	67.750
112.001	67.750
112.251	67.750
112.501	67.750
112.750	67.750
113.000	67.750
113.250	67.750
113.500	67.750
113.750	67.750
114.000	67.740
114.250	67.740
114.500	67.740
114.750	67.740
115.000	67.740
115.250	67.740
115.500	67.740
115.750	67.740
116.000	67.740
116.251	67.740
116.500	67.740
116.751	67.740
117.000	67.740
117.250	67.730
117.500	67.730
117.750	67.730
118.000	67.730
118.250	67.730
118.500	67.730
118.750	67.730
119.000	67.730
119.250	67.730
119.500	67.730
119.750	67.730
120.000	67.730
120.250	67.720

120.500	67.720
120.751	67.720
121.000	67.720
121.250	67.720
121.500	67.720
121.750	67.720
122.000	67.720
122.250	67.720
122.500	67.720
122.750	67.710
123.000	67.710
123.250	67.710
123.500	67.710
123.750	67.710
124.000	67.710
124.250	67.710
124.500	67.710
124.750	67.710
125.000	67.710
125.250	67.710
125.500	67.710
125.750	67.700
126.000	67.700
126.251	67.700
126.500	67.700
126.751	67.700
127.000	67.700
127.251	67.700
127.501	67.700
127.751	67.700
128.000	67.700
128.250	67.700
128.500	67.700
128.750	67.690
129.000	67.690
129.250	67.690
129.500	67.690
129.750	67.690
130.000	67.690
130.250	67.690
130.500	67.690
130.750	67.690
131.000	67.690
131.250	67.690
131.500	67.690
131.750	67.690
132.000	67.690
132.250	67.680
132.500	67.680
132.750	67.680
133.000	67.680
133.250	67.680

133.500	67.680
133.750	67.680
134.000	67.680
134.250	67.680
134.500	67.680
134.750	67.680
135.000	67.680
135.250	67.680
135.500	67.680
135.750	67.680
136.000	67.670
136.250	67.670
136.500	67.670
136.750	67.670
137.000	67.670
137.250	67.670
137.500	67.670
137.750	67.670
138.000	67.670
138.251	67.670
138.500	67.670
138.751	67.670
139.000	67.670
139.250	67.670
139.500	67.670
139.750	67.670
140.000	67.670
140.250	67.660
140.500	67.660
140.750	67.660
141.000	67.660
141.250	67.660
141.500	67.660
141.750	67.660
142.000	67.660
142.250	67.660
142.500	67.660
142.750	67.660
143.000	67.660
143.250	67.660
143.500	67.660
143.750	67.660
144.000	67.660
144.250	67.660
144.500	67.660
144.750	67.660
145.000	67.650
145.250	67.650
145.500	67.650
145.750	67.650
146.000	67.650
146.250	67.650

146.500	67.650
146.750	67.650
147.000	67.650
147.250	67.650
147.500	67.650
147.750	67.650
148.000	67.650
148.250	67.650
148.501	67.650
148.750	67.650
149.000	67.650
149.250	67.650
149.500	67.650
149.750	67.650
150.000	67.650

Name: NED14-10YR-72HR Node: NED14 Type: Stage

Time(hrs)	Stage(ft)
0.000	67.000
0.250	67.000
0.500	67.000
0.750	67.000
1.000	67.000
1.250	67.000
1.500	67.000
1.750	67.000
2.000	67.000
2.250	67.000
2.500	67.000
2.750	67.000
3.000	67.000
3.250	67.000
3.500	67.000
3.750	67.000
4.000	67.000
4.250	67.000
4.500	67.000
4.751	67.000
5.000	67.000
5.250	67.000
5.500	67.000
5.751	67.000
6.000	67.000
6.250	67.000
6.500	67.000
6.750	67.000
7.001	67.000
7.250	67.000
7.500	67.000

7.750	67.000
8.000	67.000
8.250	67.000
8.500	67.000
8.750	67.000
9.000	67.000
9.250	67.000
9.500	67.000
9.751	67.000
10.001	67.000
10.251	67.000
10.500	67.000
10.750	67.000
11.000	67.000
11.251	67.000
11.500	67.000
11.750	67.000
12.000	67.000
12.251	67.000
12.500	67.000
12.751	67.000
13.000	67.000
13.250	67.000
13.500	67.000
13.750	67.000
14.000	67.000
14.251	67.000
14.501	67.000
14.751	67.000
15.001	67.000
15.250	67.000
15.501	67.000
15.750	67.000
16.000	67.000
16.250	67.000
16.500	67.000
16.750	67.000
17.000	67.000
17.250	67.000
17.500	67.000
17.750	67.000
18.000	67.000
18.250	67.000
18.500	67.000
18.750	67.000
19.001	67.000
19.250	67.000
19.500	67.000
19.750	67.000
20.000	67.000
20.251	67.000
20.500	67.000

20.750	67.000
21.000	67.000
21.250	67.010
21.500	67.010
21.750	67.010
22.000	67.010
22.250	67.010
22.500	67.010
22.750	67.010
23.001	67.010
23.250	67.010
23.500	67.010
23.750	67.010
24.000	67.010
24.250	67.010
24.501	67.010
24.750	67.010
25.000	67.010
25.250	67.010
25.500	67.010
25.750	67.010
26.000	67.010
26.250	67.010
26.500	67.010
26.750	67.010
27.000	67.010
27.250	67.010
27.500	67.010
27.750	67.010
28.000	67.010
28.250	67.010
28.501	67.010
28.750	67.010
29.000	67.010
29.250	67.010
29.500	67.010
29.750	67.010
30.000	67.010
30.250	67.010
30.500	67.020
30.750	67.020
31.000	67.020
31.250	67.020
31.500	67.020
31.750	67.020
32.000	67.020
32.251	67.020
32.500	67.020
32.750	67.020
33.000	67.030
33.250	67.030
33.500	67.030

33.750	67.030
34.000	67.040
34.250	67.040
34.500	67.040
34.750	67.050
35.001	67.050
35.250	67.050
35.500	67.060
35.750	67.060
36.000	67.070
36.250	67.070
36.500	67.070
36.751	67.080
37.000	67.080
37.250	67.080
37.500	67.090
37.750	67.090
38.000	67.100
38.250	67.100
38.500	67.110
38.750	67.110
39.000	67.120
39.250	67.120
39.500	67.130
39.750	67.130
40.000	67.140
40.250	67.140
40.500	67.150
40.750	67.150
41.000	67.150
41.250	67.160
41.500	67.160
41.750	67.170
42.000	67.170
42.251	67.180
42.501	67.180
42.750	67.180
43.000	67.190
43.250	67.190
43.500	67.200
43.750	67.200
44.000	67.200
44.250	67.210
44.501	67.210
44.750	67.210
45.000	67.220
45.250	67.230
45.500	67.230
45.750	67.240
46.000	67.250
46.250	67.260
46.500	67.260

46.750	67.270
47.001	67.280
47.250	67.280
47.501	67.290
47.750	67.300
48.001	67.300
48.250	67.310
48.500	67.320
48.751	67.330
49.000	67.330
49.250	67.340
49.500	67.350
49.750	67.350
50.001	67.360
50.251	67.370
50.501	67.380
50.751	67.380
51.000	67.390
51.250	67.400
51.500	67.400
51.750	67.410
52.000	67.420
52.250	67.430
52.500	67.430
52.750	67.440
53.000	67.450
53.250	67.460
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59.750	67.740
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137.250	67.880
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137.750	67.870
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148.250	67.850
148.500	67.850
148.750	67.850
149.000	67.850
149.250	67.850
149.500	67.850
149.750	67.850
150.000	67.850

Name: NED14-100YR-72H Node: NED14 Type: Stage

Time(hrs)	Stage(ft)
0.000	67.000
0.250	67.000
0.500	67.000
0.750	67.000
1.000	67.000
1.250	67.000
1.500	67.000
1.750	67.000
2.000	67.000
2.250	67.000
2.500	67.000
2.750	67.000
3.000	67.000
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4.750	67.000
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6.250	67.000
6.501	67.000
6.750	67.000
7.000	67.000
7.250	67.000
7.500	67.000
7.751	67.000
8.000	67.000
8.250	67.000
8.500	67.000
8.750	67.000
9.000	67.000
9.251	67.000
9.500	67.000
9.750	67.000
10.000	67.000
10.250	67.000
10.500	67.000
10.750	67.000
11.001	67.000
11.250	67.000
11.500	67.000
11.750	67.000

12.000	67.000
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12.750	67.000
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13.500	67.000
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15.000	67.010
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19.750	67.010
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20.750	67.020
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21.251	67.020
21.500	67.020
21.750	67.020
22.000	67.020
22.250	67.020
22.500	67.020
22.750	67.030
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24.000	67.040
24.250	67.040
24.500	67.050
24.750	67.050

25.000	67.050
25.250	67.060
25.500	67.060
25.750	67.070
26.000	67.070
26.250	67.080
26.500	67.080
26.750	67.090
27.000	67.090
27.250	67.100
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27.750	67.110
28.000	67.120
28.250	67.120
28.500	67.130
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29.750	67.160
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30.250	67.170
30.500	67.170
30.750	67.180
31.000	67.180
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32.000	67.200
32.250	67.210
32.500	67.210
32.750	67.210
33.000	67.220
33.251	67.230
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34.250	67.270
34.500	67.280
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35.001	67.300
35.250	67.310
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35.750	67.330
36.000	67.340
36.250	67.350
36.500	67.350
36.750	67.360
37.000	67.370
37.251	67.380
37.501	67.390
37.750	67.400

38.000	67.410
38.250	67.420
38.500	67.430
38.750	67.440
39.000	67.450
39.251	67.460
39.500	67.470
39.750	67.470
40.000	67.480
40.250	67.490
40.500	67.500
40.750	67.510
41.000	67.520
41.250	67.530
41.500	67.540
41.750	67.550
42.000	67.560
42.250	67.570
42.500	67.580
42.750	67.590
43.000	67.600
43.250	67.610
43.500	67.610
43.750	67.620
44.000	67.630
44.250	67.640
44.500	67.650
44.750	67.660
45.001	67.670
45.250	67.680
45.500	67.690
45.750	67.690
46.000	67.700
46.250	67.710
46.500	67.720
46.750	67.730
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47.250	67.740
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49.500	67.800
49.750	67.810
50.000	67.820
50.250	67.820
50.500	67.830
50.750	67.830

51.000	67.840
51.250	67.850
51.500	67.850
51.750	67.860
52.000	67.860
52.250	67.870
52.500	67.880
52.750	67.880
53.000	67.890
53.250	67.900
53.500	67.900
53.750	67.910
54.000	67.910
54.250	67.920
54.500	67.930
54.750	67.940
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55.250	67.950
55.500	67.960
55.751	67.970
56.000	67.970
56.250	67.980
56.500	67.990
56.750	68.000
57.000	68.010
57.250	68.020
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57.750	68.040
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63.250	68.470
63.500	68.480
63.750	68.490

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68.250	68.470
68.500	68.460
68.750	68.460
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70.250	68.430
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70.750	68.420
71.000	68.420
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71.500	68.410
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75.750	68.320
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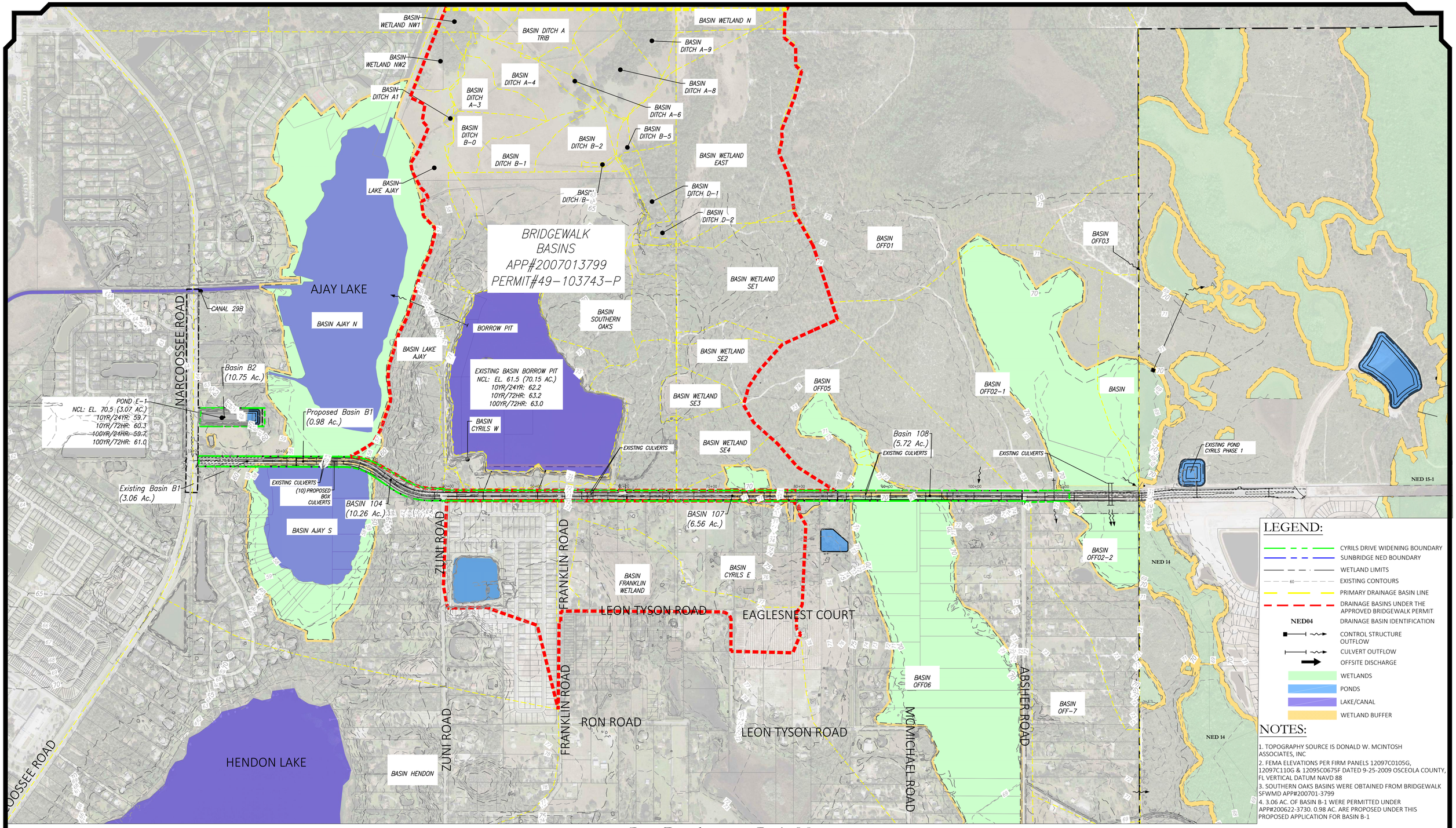
SECTION 3



LEGEND:

- CYRILS DRIVE WIDENING BOUNDARY
- SUNBRIDGE NED BOUNDARY
- WETLAND LIMITS
- EXISTING CONTOURS
- PRIMARY DRAINAGE BASIN LINE
- DRAINAGE BASINS UNDER THE APPROVED BRIDGEWALK PERMIT
- NED04 — DRAINAGE BASIN IDENTIFICATION
- CONTROL STRUCTURE OUTFLOW
- CULVERT OUTFLOW
- OFFSITE DISCHARGE
- WETLANDS
- PONDS
- LAKE/CANAL
- WETLAND BUFFER

NOTES:

1. TOPOGRAPHY SOURCE IS DONALD W. MCINTOSH ASSOCIATES, INC
2. FEMA ELEVATIONS PER FIRM PANELS 12097C0105G, 12097C110G & 12095C0675F DATED 9-25-2009 OSCEOLA COUNTY, FL VERTICAL DATUM NAVD 88
3. SOUTHERN OAKS BASINS WERE OBTAINED FROM BRIDGEWALK SFWMD APP#200701-3799
4. 3.06 AC. OF BASIN B-1 WERE PERMITTED UNDER APP#200622-3730. 0.98 AC. ARE PROPOSED UNDER THIS PROPOSED APPLICATION FOR BASIN B-1

N

500" 0 500" 1000"

SCALE IN FEET

Post-Development Basin Map

Cyrils Drive Widening - Narcoossee Road to Absher Road

February 10, 2021

P & B Job No.: 17-042

2602 E. Livingston St.
Orlando, Florida 32803- 407.487.2594

POULOS & BENNETT

www.poulosandbennett.com
Certificate of Authorization No. 28567

Exhibit 7

\\PNBS01\PROJECTS\2017\17-042 TAVISTOCK - SUNBRIDGE\CYRILS DR\NARCOSSEE TO ABSHER\CAD\EXH & FIGS\STORMWATER\FIGURE 7 POST-DEVELOPMENT BASIN MAP

TABLE POST 1
CYRILS - NARCOOSSEE TO ABSHER WIDENING

POST-DEVELOPMENT HYDROLOGIC DATA

BASIN ID	NODE ID	TOTAL DRAINAGE AREA(ac)	EFFECTIVE DRAINAGE AREA (Ac.)	PERCENT IMPERVIOUS (%)	PROPOSED LAND USE					NCL (ac)	WEIGHTED RUNOFF CN	TIME OF CONC. (min)
					OPEN SPACE GOOD				IMPERVIOUS AREA (Ac.)			
					A	B	C	D				
					39	61	74	80	98	100		
B-1	E-1	4.04	4.04	56%	1.2			0.6	2.3	0.0	78	15
B-2		10.75	8.74	67%			1.5		7.2	2.0	95	15
104	Borrow Pit	10.26	10.26	69%	0.8			2.5	6.9	0.0	89	15
107	Borrow Pit	6.56	6.56	73%				1.9	4.7	0.0	93	15
108	Borrow Pit	5.72	5.72	73%			0.3	1.4	4.1	0.0	92	15
Total		**37.33**	**35.32**		**1.95**	**0.00**	**1.82**	**6.43**	**25.12**	**2.01**		

Notes:
1) Basin B-2 (Narcoossee Rd) area is as permitted (Basin E1) under SFWMD permit # 49-01006-P, Application # 081117-25.
2) Additional 0.98 Acres have been added to Basin B-1(Cyrils Drive) that was permitted under SFWMD permit #49-103360-P, Application # 200622-3730.
3) Node Borrow Pit is as permitted under SFWMD permit # 200701-3799, Application # 200701-3799.
4) Basin 104, 107 and 108 have been designed to drain into the Borrow Pit (Bridgewalk project permit #49-103743-P, Application# 200701-3799)

CN	Hydrologic Condition: Open space		
39	A	good	CN computed for open space. Source: Table 2-2c: USDA TR-55, 1986.
61	B	good	
74	C	good	
80	D	good	

TABLE POST 3
CYRILS - NARCOOSSEE TO ABSHER WIDENING

SOUTH FLORIDA WATER QUALITY DATA

WET DETENTION TREATMENT METHOD

BASIN ID	RECEIVING NODE	TOTAL DRAINAGE AREA (ac)	POND NCL AREA (ac)	PERVIOUS AREA (ac)	SITE AREA FOR WQ (ac)	IMPERVIOUS AREA FOR WQ (ac)	% IMPERVIOUSNESS AREA FOR WQ	1.5" RUNOFF OVER BASIN (ac-ft)	3.75" Times %IMPERVIOUSNESS (ac-ft)	WATER QUALITY VOLUME REQUIRED (ac-ft)	DETENTION VOLUME PROVIDED (ac-ft)
B-1	E-1	4.04	0.00	1.79	4.04	2.25	56%	0.51	0.70	0.70	2.96
B-2		10.75	2.01							1.81	
104	Borrow Pit	220.44	70.15	49.81	150.29	57.54	38%	27.56	17.98	27.56	26.01
107	Borrow Pit										
108	Borrow Pit										
TOTAL		**235.23**	**72.16**	**51.61**	**154.33**	**68.52**		**28.06**	**18.68**	**30.07**	**28.97**

Notes:
1) The required water quality for Basin B-2 (Narcoossee Rd) is as permitted under Basin E1, SFWMD permit # 49-01006-P, Application # 081117-25
2) The provided water quality for Node "Borrow Pit" is as permitted under SFWMD permit # 200701-3799, Application # 200701-3799
3) 0.98 Acres were added to the permited Basin B-1 (3.06 acres) were provided under permit #49-103360-P, Application # 200622-3730.
4) Basin 104, 107 and 108 have been designed to drain into the Borrow Pit (Bridgewalk project permit #49-103743-P, Application# 200701-3799
5) Borow Pit Volume provided has been obtained from Bridgewalk project permit #49-103743-P, Application# 200701-3799
6) Site Area for Water Quality = Total Drainage Area- NCL Area
7) Percent Impervious Area =(Impervious Area for Water Quality /Site Area for Water Quality) x10(
8) 1.5" Runoff Volume over Basin = 1.5 x Total Drainage Area/12
9) 3.75" Runoff Volume over Impervious Area for Water Quality = ((3.75 x % Imp.Area) x (Total Drianage Area - NCL Area))/1

TABLE POST 4
CYRILS - NARCOOSSEE TO ABSHER WIDENING
POND STAGE/STORAGE

POND E-1

Wet Detention

	VOLUME (ac-ft)	STAGE (ft)	AREA (ac)
Water Quality Required:	2.51	58.89	2.2
Water Quality Provided:	2.96	59.09	2.2
Water Quality Depth		1.11	
WQ - 1/2" Volume	1.90	58.62	

PERMANENT POOL

	STAGE (ft)	AREA (ac)	STORAGE (ac-ft)	VOLUME PROVIDED (ac-ft)
Top of Bank Elev.	61.99	2.8	9.9	
	60.99	2.5	7.2	
NCL	57.79	2.0	0.0	0.0
	55.79	1.7		3.7
Anoxic Depth	45.79	1.1		17.8
Bottom	45.79	1.1		17.8

Borrow Pit

Wet Detention

	VOLUME (ac-ft)	STAGE (ft)	AREA (ac)
Water Quality Required:	27.56	61.89	70.5
Water Quality Provided:	28.12	61.90	70.6
Water Quality Depth		0.39	
WQ - 1/2" Volume	27.56	61.89	

PERMANENT POOL

	STAGE (ft)	AREA (ac)	STORAGE (ac-ft)	VOLUME PROVIDED (ac-ft)
Top of Bank Elev.	63.00	70.5	106.3	
	61.75	70.5	17.6	
NCL	61.50	70.2	0.0	0.0

POND 107 Comp

For Floodplain Compensation Storage Only

PERMANENT POOL

	STAGE (ft)	AREA (ac)	STORAGE (ac-ft)	VOLUME PROVIDED (ac-ft)
Top of Bank Elev.	72.10	1.6	1.5	
Bottom	71.10	1.5	0.0	0.0

Note:

1) Vertical Datum NAVD 88.

2) Pond Stages and Water Quality Provided stage of Pond "E-1" are as permitted under Pond "E1 Comp", SFWMD permit # 49-01006-P, Application # 081117-25

3) Pond Stages and Water Quality Provided stage of Pond "Borrow Pit" are as permitted under SFWMD permit # 200701-3799, Application # 49-103743-P

4) Elevations of Pond E-1 were obtained from SFWMD permit # 49-01006-P, Application # 081117-25 were in NGVD29 Datum. Conversion equation: NGVD29-1.015 ft = NAVD88 was used (Atlantic Surveying, LCC).

5) Pond E-1 has been expanded to accomidate the proposed 0.98 acre expansion of Basin B-1, additional 0.18 ac-ft of volume.

6) Pond 107 Comp has been designed to provide compensation storage only. No treatment will be provided.

TABLE POST 5
CYRILS - NARCOOSSEE TO ABSHER WIDENING

BLEEDDOWN ORIFICE SUMMARY

Orifice diameter required to draw-down one-half inch of treatment volume in 24 hours.

Input Parameters:

(h_1) Depth of water (ft) between top of required treatment volume and orifice invert.

(Vt) 1/2 Inch water quality treatment volume (ac-ft).

Calculated Parameters:

Average depth (ft) of water above orifice (h)
Average flow rate (cfs) required to draw-down one-half inch of the treatment volume in 24 hours (Q)
Area (sq ft) of orifice required (A)
Diameter (in) of orifice required (D)
Coefficient (C) = 0.6

$$Q = \left(\frac{V_t \times 43{,}560\,{}^{sf}/_{acre}}{day}\right)\left(\frac{day}{24\,hr}\right)\left(\frac{hr}{3{,}600\,sec}\right)$$

$$Q = CA\sqrt{2gh} \qquad \therefore A = \frac{Q}{C\sqrt{2gh}}$$

$$D = \sqrt{\frac{4A}{\Pi}}$$

POND	Input Parameters (h_1) (feet)	(V_t) (ac-ft)	(Q) (cfs)	(A) (sq in)	(D) (in)	No. of Orifices & Equivalent Size: Orifice Diameter (in)	Number of Orifices	Equivalent Diameter (in)
POND E-1	1.11	0.53	0.27	7.62	3.12	**4.75**	**1**	**4.75**

Note:
1) Existing Orifice 4.75"of Pond E-1 is under permit # 49-01006-P, Application # 081117-25:

TABLE POST 6
CYRILS - NARCOOSSEE TO ABSHER WIDENING

POND PEAK STAGES

Node	10yr/24hr	10yr/72hr	100yr/24hr	100yr/72hr	Minimum Road Elev.	Minimum TOB Elev.	Top of Bank	NCL
POND E-1	59.7'	60.3'	59.7'	61.0'	60.3'	61.3'	62.0	57.8'
Borrow Pit	62.2'	63.2'	-	63.0'	63.5'	64.2'	76.0	61.5'

Notes:

1) Minimum road elevation is the greater of two feet above the normal control level, or at the 10 year 72hour stage in the receiving pond.

2) Additional 0.98 Acres have been added to Basin B-1(Cyrils Drive) that was permitted under SFWMD permit #49-103360-P,

3) Basin 104, 107 and 108 have been designed to drain into the Borrow Pit (Bridgewalk project permit #49-103743-P, Application# 200701-3799)

4) Borrow Pit stages are as permitted under Bridgewalk project permit #49-103743-P, Application# 200701-3799

TABLE POST 7
CYRILS - NARCOOSSEE TO ABSHER WIDENING

PRE VS POST PEAK DISCHARGE RATE

TailWater Node	10 Year 72 Hour Storm Event					
	PRE			POST		
	Contributing Basin Area (AC)	Peak Runoff (CFS)	Flow Rate (CFS/AC)	Contributing Basin Area (AC)	Peak Runoff (CFS)	Flow Rate (CFS/AC)
Pond E-1	3.1	9.9	3.2	4.0	8.7	2.2
Total	**3.1**	**9.9**	**3.2**	**4.0**	**8.7**	**2.2**

Notes:

1) Pre-development discharge rate for Pond E-1 is as permitted under Pond E1, SFWMD permit # 49-01006-P, Application # 081117-25.

2) Basin 104, 107 and 108 have been designed to drain into the Borrow Pit (Bridgewalk project permit #49-103743-P, Application# 200701-3799).

TABLE POST 8
CYRILS - NARCOOSSEE TO ABSHER WIDENING

Permitted & Proposed Post Development Pond E-1 Peak Stages Comparison

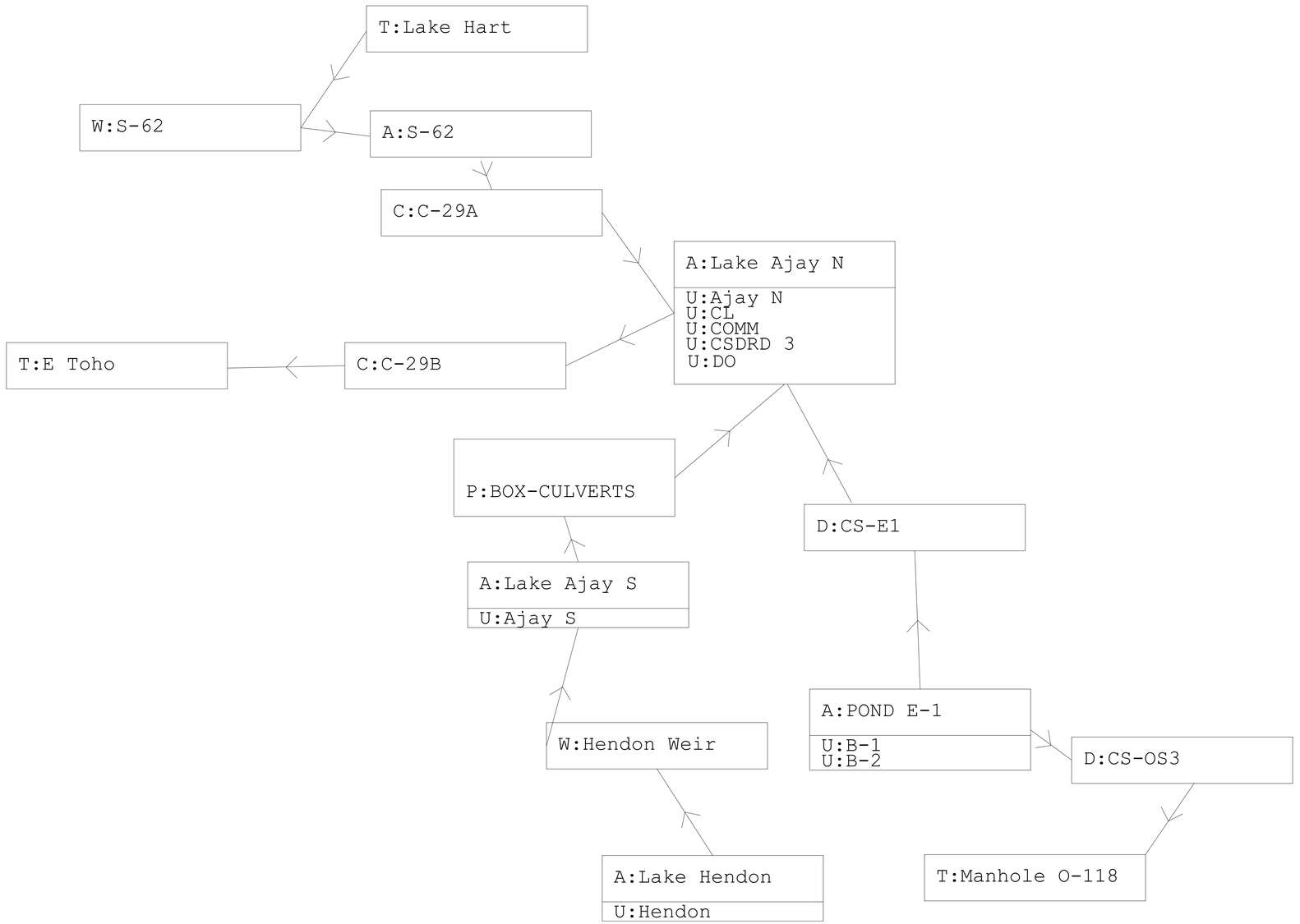
Pond E-1	Permitted Stages	Proposed Stages
10 yr\24hr	59.8'	59.7'
10 yr\72hr	60.3'	60.3'
100 yr\72hr	61.7'	61.0'
Min Road Elevation	59.8'	60.3'

Note:

1) Vertical Datum NAVD 88.

2) Pond Stages and Minimum Road Elevation are as permitted under SFWMD permit #49-103360-P, Application # 200622-3730.

3) Elvations obtained from SFWMD permit # 49-01006-P, Application # 081117-25 were in NGVD29 Datum. Conversion equation: NGVD29-1.015 ft = NAVD88 was used (Atlantic Surveying, LCC).



Post-Development Nodal Diagram

Cyrils Drive Widening - Narcoossee Road to Absher Road

March 1, 2021
P & B Job No.: 17-042

4625 Halder Lane, Suite B
Orlando, Florida 32814 - 407.487.2594

POULOS & BENNETT

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Name	Simulation	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow cfs	Max Outflow cfs
E Toho	100Y-24H	57.0	62.0	0.0000	120000	636.8	0.0
E Toho	100Y-24H-BS	61.0	62.0	0.0015	158414	725.9	0.0
E Toho	100Y-72H	57.0	62.0	0.0000	120000	709.3	0.0
E Toho	10Y-24H	57.0	62.0	0.0000	120000	636.8	0.0
E Toho	10Y-72H	57.0	62.0	0.0000	120000	423.0	0.0
E Toho	50Y-24H	57.0	62.0	0.0000	120000	468.0	0.0
Lake Ajay N	100Y-24H	57.9	88.0	0.0024	7526177	1074.5	636.8
Lake Ajay N	100Y-24H-BS	61.3	88.0	0.0004	14090078	1625.0	725.9
Lake Ajay N	100Y-72H	58.1	88.0	0.0029	7707275	1233.2	709.3
Lake Ajay N	10Y-24H	57.9	88.0	0.0024	7526177	1074.5	636.8
Lake Ajay N	10Y-72H	57.4	88.0	0.0020	7031691	662.1	423.0
Lake Ajay N	50Y-24H	57.5	88.0	0.0014	7126618	748.7	468.0
Lake Ajay S	100Y-24H	58.1	64.0	0.0031	1297056	686.4	628.5
Lake Ajay S	100Y-24H-BS	61.3	64.0	0.0004	2136595	770.9	595.1
Lake Ajay S	100Y-72H	58.3	64.0	0.0030	1341531	845.5	763.9
Lake Ajay S	10Y-24H	58.1	64.0	0.0031	1297056	686.4	628.5
Lake Ajay S	10Y-72H	57.5	64.0	0.0028	1199895	388.4	365.6
Lake Ajay S	50Y-24H	57.6	64.0	0.0020	1217958	428.4	405.0
Lake Hart	100Y-24H	57.0	64.0	0.0000	0	0.0	1.0
Lake Hart	100Y-24H-BS	63.0	64.0	3.0000	0	0.0	742.7
Lake Hart	100Y-72H	57.0	64.0	0.0000	0	0.0	1.0
Lake Hart	10Y-24H	57.0	64.0	0.0000	0	0.0	1.0
Lake Hart	10Y-72H	57.0	64.0	0.0000	0	0.0	0.6
Lake Hart	50Y-24H	57.0	64.0	0.0000	0	0.0	1.0
Lake Hendon	100Y-24H	61.7	64.0	0.0020	7601756	1141.8	587.2
Lake Hendon	100Y-24H-BS	61.7	64.0	-0.0002	7636886	880.0	652.9
Lake Hendon	100Y-72H	61.8	64.0	0.0017	7667540	1231.4	713.0
Lake Hendon	10Y-24H	61.7	64.0	0.0020	7601756	1141.8	587.2
Lake Hendon	10Y-72H	61.5	64.0	0.0019	7445084	664.5	333.4
Lake Hendon	50Y-24H	61.5	64.0	0.0019	7469576	788.3	368.8
Manhole O-118	100Y-24H	58.5	61.8	1.3900	0	10.5	0.0
Manhole O-118	100Y-24H-BS	58.5	61.8	1.3900	0	10.6	0.0
Manhole O-118	100Y-72H	58.5	61.8	1.3900	0	10.7	0.0
Manhole O-118	10Y-24H	58.5	61.8	1.3900	0	10.5	0.0
Manhole O-118	10Y-72H	58.5	61.8	1.3900	0	8.7	0.0
Manhole O-118	50Y-24H	58.5	61.8	1.3900	0	9.0	0.0
MARYJANE TW	100Y-24H-BS	62.0	63.0	0.0007	0	331.4	0.0
MARYJANE TW	100YR-24H	62.0	63.0	0.0020	0	284.5	0.0
MARYJANE TW	100YR-72H	62.0	63.0	0.0051	0	354.8	0.0
MARYJANE TW	10YR-24H	62.0	63.0	0.0020	0	284.5	0.0
MARYJANE TW	10YR-72H	62.0	63.0	0.0051	0	188.2	0.0
MARYJANE TW	50Y-24H	62.0	63.0	0.0020	0	201.9	0.0
NED01	100Y-24H-BS	67.3	74.0	-0.0003	3110152	354.4	331.4
NED01	100YR-24H	67.2	74.0	0.0020	2792080	306.6	284.5
NED01	100YR-72H	67.3	74.0	0.0028	3257798	391.4	354.8
NED01	10YR-24H	67.2	74.0	0.0020	2792080	306.6	284.5
NED01	10YR-72H	67.0	74.0	0.0023	2049760	201.8	188.2
NED01	50Y-24H	67.0	74.0	-0.0024	2114478	215.0	201.9

Name	Simulation	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow cfs	Max Outflow cfs
NED09	100Y-24H-BS	68.1	72.0	-0.0000	345933	33.2	33.0
NED09	100YR-24H	68.1	72.0	0.0002	344057	30.9	30.7
NED09	100YR-72H	68.2	72.0	0.0003	349351	37.8	37.6
NED09	10YR-24H	68.1	72.0	0.0002	344057	30.9	30.7
NED09	10YR-72H	68.1	72.0	0.0001	337165	20.5	20.4
NED09	50Y-24H	68.1	72.0	-0.0001	338532	23.0	22.9
NED10	100Y-24H-BS	69.9	76.0	0.0002	1021798	61.0	42.2
NED10	100YR-24H	69.8	76.0	0.0023	1003309	59.2	33.3
NED10	100YR-72H	69.9	76.0	0.0019	1044013	67.1	56.2
NED10	10YR-24H	69.8	76.0	0.0023	1003309	59.2	33.3
NED10	10YR-72H	69.8	76.0	0.0022	968822	39.0	20.4
NED10	50Y-24H	69.7	76.0	0.0023	965869	43.1	19.4
NED11	100Y-24H-BS	70.1	75.0	0.0002	473191	38.7	31.9
NED11	100YR-24H	70.1	75.0	0.0030	470149	37.7	26.4
NED11	100YR-72H	70.1	75.0	0.0029	477320	41.0	40.1
NED11	10YR-24H	70.1	75.0	0.0030	470149	37.7	26.4
NED11	10YR-72H	70.1	75.0	0.0029	463710	24.6	15.9
NED11	50Y-24H	70.1	75.0	0.0030	463112	27.8	15.1
NED12	100Y-24H-BS	70.8	76.0	0.0001	28600	1.9	0.0
NED12	100YR-24H	70.7	76.0	0.0021	28515	2.8	0.0
NED12	100YR-72H	71.0	76.0	0.0027	29010	3.0	0.0
NED12	10YR-24H	70.7	76.0	0.0021	28515	2.8	0.0
NED12	10YR-72H	70.4	76.0	0.0021	28090	1.9	0.0
NED12	50Y-24H	70.4	76.0	0.0014	28072	2.4	0.0
NED13	100Y-24H-BS	71.0	76.0	0.0002	105563	12.1	12.1
NED13	100YR-24H	71.0	76.0	0.0029	105507	12.1	11.7
NED13	100YR-72H	71.0	76.0	0.0008	105732	13.3	13.3
NED13	10YR-24H	71.0	76.0	0.0029	105507	12.1	11.7
NED13	10YR-72H	71.0	76.0	0.0025	104880	7.8	7.8
NED13	50Y-24H	71.0	76.0	0.0031	105002	9.1	8.5
NED14	100Y-24H-BS	68.5	78.0	0.0004	23	387.6	0.0
NED14	100YR-24H	68.5	78.0	0.0027	27	321.2	0.0
NED14	100YR-72H	68.5	78.0	0.0045	32	478.4	0.0
NED14	10YR-24H	68.5	78.0	0.0027	27	321.2	0.0
NED14	10YR-72H	68.5	78.0	0.0045	32	215.5	0.0
NED14	50Y-24H	68.5	78.0	0.0030	30	231.1	0.0
NED28	100Y-24H-BS	71.3	77.0	0.0002	687483	60.9	50.2
NED28	100YR-24H	71.2	77.0	0.0031	680688	60.8	41.2
NED28	100YR-72H	71.3	77.0	0.0032	700143	73.4	68.5
NED28	10YR-24H	71.2	77.0	0.0031	680688	60.8	41.2
NED28	10YR-72H	71.2	77.0	0.0031	666660	39.8	24.9
NED28	50Y-24H	71.2	77.0	0.0029	664649	44.0	22.9
NED29	100Y-24H-BS	70.1	76.0	-0.0003	2127414	115.5	85.9
NED29	100YR-24H	70.1	76.0	0.0030	2105361	97.6	67.4
NED29	100YR-72H	70.1	76.0	0.0030	2156416	141.0	114.5
NED29	10YR-24H	70.1	76.0	0.0030	2105361	97.6	67.4
NED29	10YR-72H	69.9	76.0	0.0030	2005117	64.3	33.2
NED29	50Y-24H	70.0	76.0	0.0021	2022751	63.6	35.9

Name	Simulation	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow cfs	Max Outflow cfs
OFF05	100Y-24H-BS	73.2	75.0	0.0003	1558514	37.7	6.1
OFF05	100YR-24H	73.0	75.0	0.0021	1466981	32.9	2.0
OFF05	100YR-72H	73.4	75.0	0.0028	1678722	41.3	9.0
OFF05	10YR-24H	73.0	75.0	0.0021	1466981	32.9	2.0
OFF05	10YR-72H	72.9	75.0	0.0020	1362905	22.8	1.1
OFF05	50Y-24H	72.8	75.0	0.0018	1288918	24.1	0.9
OFF06	100Y-24H-BS	72.1	75.0	0.0003	5563537	211.9	22.9
OFF06	100YR-24H	71.9	75.0	0.0019	5410898	203.8	20.4
OFF06	100YR-72H	72.4	75.0	0.0030	5976205	235.0	27.9
OFF06	10YR-24H	71.9	75.0	0.0019	5410898	203.8	20.4
OFF06	10YR-72H	71.6	75.0	0.0018	5228853	133.7	14.8
OFF06	50Y-24H	71.6	75.0	0.0016	5235134	146.5	15.0
OFF7-1	100Y-24H-BS	69.2	72.0	0.0023	12071	22.9	22.9
OFF7-1	100YR-24H	69.1	72.0	0.0050	11830	20.4	21.0
OFF7-1	100YR-72H	69.3	72.0	0.0050	12191	27.9	28.0
OFF7-1	10YR-24H	69.1	72.0	0.0050	11830	20.4	21.0
OFF7-1	10YR-72H	68.7	72.0	0.0050	10793	14.8	14.8
OFF7-1	50Y-24H	68.9	72.0	0.0050	11362	15.0	15.8
OFF7-2	100Y-24H-BS	68.9	72.0	-0.0024	11224	39.5	39.5
OFF7-2	100YR-24H	68.8	72.0	-0.0043	11010	35.8	35.8
OFF7-2	100YR-72H	68.8	72.0	-0.0048	11177	45.8	45.8
OFF7-2	10YR-24H	68.8	72.0	-0.0043	11010	35.8	35.8
OFF7-2	10YR-72H	68.4	72.0	-0.0050	10192	25.2	25.2
OFF7-2	50Y-24H	68.6	72.0	-0.0042	10668	26.6	26.7
POND 102	100Y-24H	63.7	64.5	0.0050	49426	36.8	12.8
POND 102	100Y-24H-BS	63.6	64.5	0.0005	49139	16.2	11.5
POND 102	100Y-72H	63.8	64.5	0.0050	50437	32.6	18.0
POND 102	10Y-24H	63.7	64.5	0.0050	49426	36.8	12.8
POND 102	10Y-72H	63.3	64.5	0.0050	47051	21.2	2.0
POND 102	50Y-24H	63.4	64.5	0.0050	47524	29.0	3.8
POND 107	100Y-24H-BS	72.1	73.2	0.0003	143847	25.6	16.1
POND 107	100YR-24H	72.1	73.2	0.0040	144194	54.5	23.7
POND 107	100YR-72H	72.4	73.2	0.0044	147525	57.3	21.9
POND 107	10YR-24H	72.1	73.2	0.0040	144194	54.5	23.7
POND 107	10YR-72H	71.8	73.2	0.0041	141987	35.7	10.3
POND 107	50Y-24H	71.8	73.2	0.0025	142140	46.8	10.9
POND 108	100Y-24H-BS	72.2	73.5	0.0003	81864	19.0	14.2
POND 108	100YR-24H	72.4	73.5	0.0050	83246	40.4	24.4
POND 108	100YR-72H	72.4	73.5	0.0050	83317	42.7	23.0
POND 108	10YR-24H	72.4	73.5	0.0050	83246	40.4	24.4
POND 108	10YR-72H	72.1	73.5	0.0050	81138	26.6	11.0
POND 108	50Y-24H	72.1	73.5	0.0033	81340	34.7	11.6
POND E-1	100Y-24H	60.9	62.0	0.0041	109271	64.2	11.8
POND E-1	100Y-24H-BS	61.0	62.0	0.0004	109494	32.1	12.4
POND E-1	100Y-72H	61.0	62.0	0.0036	109986	58.6	13.7
POND E-1	10Y-24H	60.9	62.0	0.0041	109271	64.2	11.8
POND E-1	10Y-72H	60.3	62.0	0.0031	104660	38.0	8.7
POND E-1	50Y-24H	60.3	62.0	0.0041	105250	50.8	9.0

Name	Simulation	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow cfs	Max Outflow cfs
S-62	100Y-24H	57.9	64.0	-0.0040	180860	1.0	32.6
S-62	100Y-24H-BS	61.6	64.0	0.0009	229407	742.7	727.0
S-62	100Y-72H	58.1	64.0	0.0029	183226	1.0	0.0
S-62	10Y-24H	57.9	64.0	-0.0040	180860	1.0	32.6
S-62	10Y-72H	57.4	64.0	0.0040	174576	0.6	36.0
S-62	50Y-24H	57.5	64.0	0.0030	175785	1.0	39.8

==========
==== Basins ====
==========

Name: 102 Node: POND 102 Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 15.00
Area(ac): 7.300 Time Shift(hrs): 0.00
Curve Number: 88.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: 107 Node: POND 107 Status: Onsite
Group: BASE-POST Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 15.00
Area(ac): 11.200 Time Shift(hrs): 0.00
Curve Number: 93.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: 108 Node: POND 108 Status: Onsite
Group: BASE-POST Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 15.00
Area(ac): 8.370 Time Shift(hrs): 0.00
Curve Number: 92.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Name: Ajay N Node: Lake Ajay N Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 37.00
Area(ac): 304.020 Time Shift(hrs): 0.00

```
           Curve Number: 75.00              Max Allowable Q(cfs): 999999.000
                DCIA(%): 0.00

Information from Dewberry MDR report April 2014(SFWMD Permit# 48-02392-P)

-------------------------------------------------------------------------------------------------
         Name: Ajay S                   Node: Lake Ajay S            Status: Onsite
        Group: BASE                     Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                   Peaking Factor: 256.0
          Rainfall File:                    Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000                Time of Conc(min): 56.00
              Area(ac): 167.990                 Time Shift(hrs): 0.00
           Curve Number: 52.00              Max Allowable Q(cfs): 999999.000
                DCIA(%): 0.00

Information from Dewberry MDR report April 2014(SFWMD Permit# 48-02392-P)

-------------------------------------------------------------------------------------------------
         Name: B-1                      Node: POND E-1               Status: Onsite
        Group: BASE                     Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                   Peaking Factor: 256.0
          Rainfall File:                    Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000                Time of Conc(min): 15.00
              Area(ac): 4.040                   Time Shift(hrs): 0.00
           Curve Number: 78.00              Max Allowable Q(cfs): 999999.000
                DCIA(%): 0.00

Basin includes 3.06 ac that was permitted under SWWMD Permit #49-103660-P; Application #200622-3730.

-------------------------------------------------------------------------------------------------
         Name: B-2                      Node: POND E-1               Status: Onsite
        Group: BASE                     Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                   Peaking Factor: 256.0
          Rainfall File:                    Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000                Time of Conc(min): 22.00
              Area(ac): 10.750                  Time Shift(hrs): 0.00
           Curve Number: 94.00              Max Allowable Q(cfs): 999999.000
                DCIA(%): 0.00

Basin is as approved under SWWMD #49-01006-P; Application #08117-25

-------------------------------------------------------------------------------------------------
         Name: CL                       Node: Lake Ajay N            Status: Onsite
        Group: BASE                     Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                   Peaking Factor: 256.0
          Rainfall File:                    Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000                Time of Conc(min): 55.00
```

Area(ac): 59.710 Time Shift(hrs): 0.00
Curve Number: 43.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Information from Dewberry MDR report April 2014(SFWMD Permit# 48-02392-P)

Name: COMM Node: Lake Ajay N Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 53.00
Area(ac): 17.970 Time Shift(hrs): 0.00
Curve Number: 45.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Information from Dewberry MDR report April 2014(SFWMD Permit# 48-02392-P)

Name: CSDRD 1 Node: Wet 4 Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 2.750 Time Shift(hrs): 0.00
Curve Number: 65.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Information from Dewberry report April 2014.

Name: CSDRD 2 Node: Wet 5N Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00
Rainfall Amount(in): 0.000 Time of Conc(min): 10.00
Area(ac): 0.790 Time Shift(hrs): 0.00
Curve Number: 69.00 Max Allowable Q(cfs): 999999.000
DCIA(%): 0.00

Information from Dewberry report April 2014.

Name: CSDRD 3 Node: Lake Ajay N Status: Onsite
Group: BASE Type: SCS Unit Hydrograph CN

Unit Hydrograph: Uh256 Peaking Factor: 256.0
Rainfall File: Storm Duration(hrs): 0.00

```
    Rainfall Amount(in): 0.000                Time of Conc(min): 10.00
              Area(ac): 7.580                   Time Shift(hrs): 0.00
          Curve Number: 69.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Information from Dewberry MDR report April 2014(SFWMD Permit# 48-02392-P)

-------------------------------------------------------------------------------------------------
         Name: Cyrils 1                Node: Wet 1                  Status: Onsite
        Group: BASE                    Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                  Peaking Factor: 256.0
          Rainfall File:                    Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000                Time of Conc(min): 27.00
              Area(ac): 4.560                   Time Shift(hrs): 0.00
          Curve Number: 65.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Information from Dewberry report April 2014.

-------------------------------------------------------------------------------------------------
         Name: DO                      Node: Lake Ajay N            Status: Onsite
        Group: BASE                    Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                  Peaking Factor: 256.0
          Rainfall File:                    Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000                Time of Conc(min): 47.00
              Area(ac): 63.530                  Time Shift(hrs): 0.00
          Curve Number: 52.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Information from Dewberry MDR report April 2014(SFWMD Permit# 48-02392-P)

-------------------------------------------------------------------------------------------------
         Name: Hendon                  Node: Lake Hendon            Status: Onsite
        Group: BASE                    Type: SCS Unit Hydrograph CN

        Unit Hydrograph: Uh256                  Peaking Factor: 256.0
          Rainfall File:                    Storm Duration(hrs): 0.00
    Rainfall Amount(in): 0.000                Time of Conc(min): 64.00
              Area(ac): 801.280                 Time Shift(hrs): 0.00
          Curve Number: 62.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Information from Dewberry MDR report April 2014(SFWMD Permit# 48-02392-P)

-------------------------------------------------------------------------------------------------
         Name: NED01                   Node: NED01                  Status: Onsite
        Group: NED Export              Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                  Peaking Factor: 100.0
```

```
          Rainfall File: Flmod              Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                Time of Conc(min): 143.00
              Area(ac): 152.840                 Time Shift(hrs): 0.00
          Curve Number: 86.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED09                    Node: NED09                  Status: Onsite
        Group: NED Export               Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                  Peaking Factor: 100.0
          Rainfall File: Flmod              Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                Time of Conc(min): 79.00
              Area(ac): 25.630                  Time Shift(hrs): 0.00
          Curve Number: 84.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED10                    Node: NED10                  Status: Onsite
        Group: NED Export               Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                  Peaking Factor: 100.0
          Rainfall File: Flmod              Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                Time of Conc(min): 67.83
              Area(ac): 33.440                  Time Shift(hrs): 0.00
          Curve Number: 84.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED11                    Node: NED11                  Status: Onsite
        Group: NED Export               Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                  Peaking Factor: 100.0
          Rainfall File: Flmod              Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                Time of Conc(min): 67.42
              Area(ac): 29.930                  Time Shift(hrs): 0.00
          Curve Number: 85.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED12                    Node: NED12                  Status: Onsite
        Group: NED Export               Type: SCS Unit Hydrograph CN
```

```
        Unit Hydrograph: UH100                  Peaking Factor: 100.0
          Rainfall File: Flmod               Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                 Time of Conc(min): 15.37
              Area(ac): 0.940                    Time Shift(hrs): 0.00
          Curve Number: 91.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED13                    Node: NED13                  Status: Onsite
        Group: NED Export               Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                  Peaking Factor: 100.0
          Rainfall File: Flmod               Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                 Time of Conc(min): 66.37
              Area(ac): 11.820                   Time Shift(hrs): 0.00
          Curve Number: 80.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED14                    Node: NED14                  Status: Onsite
        Group: NED Export               Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                  Peaking Factor: 100.0
          Rainfall File: Flmod               Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                 Time of Conc(min): 141.35
              Area(ac): 262.070                  Time Shift(hrs): 0.00
          Curve Number: 86.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED27                    Node: OFF7-2                 Status: Onsite
        Group: NED Export               Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                  Peaking Factor: 100.0
          Rainfall File: Flmod               Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                 Time of Conc(min): 240.00
              Area(ac): 1.920                    Time Shift(hrs): 0.00
          Curve Number: 75.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED28                    Node: NED28                  Status: Onsite
        Group: NED Export               Type: SCS Unit Hydrograph CN
```

```
        Unit Hydrograph: UH100                  Peaking Factor: 100.0
          Rainfall File: Flmod               Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                 Time of Conc(min): 59.00
              Area(ac): 14.810                   Time Shift(hrs): 0.00
          Curve Number: 84.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED29                    Node: NED29                  Status: Onsite
        Group: NED Export               Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                  Peaking Factor: 100.0
          Rainfall File: Flmod               Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                 Time of Conc(min): 224.00
              Area(ac): 78.890                   Time Shift(hrs): 0.00
          Curve Number: 83.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: OFF01                    Node: NED01                  Status: Onsite
        Group: NED Export               Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                  Peaking Factor: 100.0
          Rainfall File: Flmod               Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                 Time of Conc(min): 143.00
              Area(ac): 338.880                  Time Shift(hrs): 0.00
          Curve Number: 70.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 2.23

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: OFF02                    Node: NED14                  Status: Onsite
        Group: NED Export               Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                  Peaking Factor: 100.0
          Rainfall File: Flmod               Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                 Time of Conc(min): 96.00
              Area(ac): 184.440                  Time Shift(hrs): 0.00
          Curve Number: 70.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: OFF03                    Node: NED09                  Status: Onsite
```

```
        Group: NED Export               Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                  Peaking Factor: 100.0
          Rainfall File: Flmod               Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                 Time of Conc(min): 79.00
                Area(ac): 18.770                 Time Shift(hrs): 0.00
           Curve Number: 49.00              Max Allowable Q(cfs): 999999.000
                DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: OFF04                    Node: NED10                  Status: Onsite
        Group: NED Export               Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                  Peaking Factor: 100.0
          Rainfall File: Flmod               Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                 Time of Conc(min): 66.00
                Area(ac): 21.310                 Time Shift(hrs): 0.00
           Curve Number: 72.00              Max Allowable Q(cfs): 999999.000
                DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: OFF05                    Node: OFF05                  Status: Onsite
        Group: NED Export               Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                  Peaking Factor: 100.0
          Rainfall File: Flmod               Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                 Time of Conc(min): 163.00
                Area(ac): 74.920                 Time Shift(hrs): 0.00
           Curve Number: 73.00              Max Allowable Q(cfs): 999999.000
                DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: OFF06                    Node: OFF06                  Status: Onsite
        Group: NED Export               Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                  Peaking Factor: 100.0
          Rainfall File: Flmod               Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                 Time of Conc(min): 125.00
                Area(ac): 289.060                Time Shift(hrs): 0.00
           Curve Number: 78.00              Max Allowable Q(cfs): 999999.000
                DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
```

```
         Name: OFF07                   Node: OFF7-2                Status: Onsite
        Group: NED Export              Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                 Peaking Factor: 100.0
          Rainfall File: Flmod              Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                Time of Conc(min): 240.00
              Area(ac): 60.020                   Time Shift(hrs): 0.00
          Curve Number: 77.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: OFF08                   Node: NED28                 Status: Onsite
        Group: NED Export              Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                 Peaking Factor: 100.0
          Rainfall File: Flmod              Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                Time of Conc(min): 59.00
              Area(ac): 51.670                   Time Shift(hrs): 0.00
          Curve Number: 66.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: OFF09                   Node: NED29                 Status: Onsite
        Group: NED Export              Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                 Peaking Factor: 100.0
          Rainfall File: Flmod              Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                Time of Conc(min): 224.00
              Area(ac): 124.930                  Time Shift(hrs): 0.00
          Curve Number: 53.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: OFF29                   Node: NED01                 Status: Onsite
        Group: NED Export              Type: SCS Unit Hydrograph CN

        Unit Hydrograph: UH100                 Peaking Factor: 100.0
          Rainfall File: Flmod              Storm Duration(hrs): 72.00
    Rainfall Amount(in): 9.330                Time of Conc(min): 143.00
              Area(ac): 22.250                   Time Shift(hrs): 0.00
          Curve Number: 69.00               Max Allowable Q(cfs): 999999.000
               DCIA(%): 0.00

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441
```

==========
==== Nodes ==========
==========

Name: E Toho Base Flow(cfs): 0.000 Init Stage(ft): 57.000
Group: BASE Warn Stage(ft): 62.000
Type: Time/Stage

Information from Dewberry MDR report April 2014(SFWMD Permit# 48-02392-P)

Time(hrs)	Stage(ft)
0.00	57.000
100.00	57.000

Name: Lake Ajay N Base Flow(cfs): 0.000 Init Stage(ft): 57.000
Group: BASE Warn Stage(ft): 88.000
Type: Stage/Area

Information from Dewberry MDR report April 2014(SFWMD Permit# 48-02392-P)

Stage(ft)	Area(ac)
57.000	143.9000
58.000	167.8000
59.000	190.9000
60.000	266.3000
61.000	307.4000
62.000	331.5000

Name: Lake Ajay S Base Flow(cfs): 0.000 Init Stage(ft): 57.000
Group: BASE Warn Stage(ft): 64.000
Type: Stage/Area

Information from Dewberry MDR report April 2014(SFWMD Permit# 48-02392-P)

Stage(ft)	Area(ac)
56.000	21.3000
59.000	33.4000
64.000	67.4000

Name: Lake Hart Base Flow(cfs): 0.000 Init Stage(ft): 57.000
Group: BASE Warn Stage(ft): 64.000
Type: Time/Stage

Information from Dewberry MDR report April 2014(SFWMD Permit# 48-02392-P)

Time(hrs)	Stage(ft)
0.00	57.000
100.00	57.000

Name: Lake Hendon Base Flow(cfs): 0.000 Init Stage(ft): 61.000
Group: BASE Warn Stage(ft): 64.000
Type: Stage/Area

Information from Dewberry MDR report April 2014(SFWMD Permit# 48-02392-P)

Stage(ft)	Area(ac)
61.000	162.0000
64.000	217.0000

Name: Manhole O-118 Base Flow(cfs): 0.000 Init Stage(ft): 57.070
Group: BASE Warn Stage(ft): 61.750
Type: Time/Stage

NAVD88 10yr-72 Hr Max Stage
Existing manhole under SWWMD #49-01006-P; Application #08117-25
Elevation converted NGVD29 to NAVD88 : NGVD29-1.015 ft = NAVD88 Atlantic Survey

Time(hrs)	Stage(ft)
0.00	58.460
9999.00	58.460

Name: MARYJANE TW Base Flow(cfs): 0.000 Init Stage(ft): 60.000
Group: NED Export Warn Stage(ft): 63.000
Type: Time/Stage

Information for Lake Mary Jane obtained from the report titled "Basin Planning for Boggy Creek and Lake Hart Watersheds, Final Report (June 1998), by

Basin, node and link data taken from the approved NED LOMR-NAVD88 Master ICPR3 model, obtained from FEMA.

The time-stage data for node MARYJANE was taken for the time-stage output for the approved 100Yr-24Hr event.

Time(hrs)	Stage(ft)
0.00	60.000
0.25	60.000
0.50	60.000
0.75	60.000
1.00	60.000

1.25	60.000
1.50	60.000
1.75	60.010
2.00	60.010
2.25	60.010
2.50	60.010
2.75	60.020
3.00	60.020
3.25	60.020
3.50	60.020
3.75	60.030
4.00	60.030
4.25	60.030
4.50	60.040
4.75	60.040
5.00	60.040
5.25	60.050
5.50	60.050
5.75	60.060
6.00	60.060
6.25	60.060
6.50	60.070
6.75	60.070
7.00	60.080
7.25	60.080
7.50	60.090
7.75	60.090
8.00	60.100
8.25	60.110
8.50	60.110
8.75	60.120
9.00	60.130
9.25	60.140
9.50	60.140
9.75	60.150
10.00	60.160
10.25	60.170
10.50	60.180
10.75	60.190
11.00	60.210
11.25	60.220
11.50	60.240
11.75	60.270
12.00	60.330
12.25	60.410
12.50	60.480
12.75	60.540
13.00	60.590
13.25	60.630
13.50	60.670
13.75	60.700

14.00	60.730
14.25	60.760
14.50	60.790
14.75	60.820
15.00	60.850
15.25	60.880
15.50	60.910
15.75	60.940
16.00	60.970
16.25	60.990
16.50	61.020
16.75	61.050
17.00	61.080
17.25	61.110
17.50	61.140
17.75	61.170
18.00	61.200
18.25	61.220
18.50	61.250
18.75	61.280
19.00	61.310
19.25	61.330
19.50	61.360
19.75	61.390
20.00	61.420
20.25	61.440
20.50	61.470
20.75	61.490
21.00	61.520
21.25	61.550
21.50	61.570
21.75	61.600
22.00	61.620
22.25	61.640
22.50	61.670
22.75	61.690
23.00	61.720
23.25	61.740
23.50	61.760
23.75	61.790
24.00	61.810
24.25	61.830
24.50	61.850
24.75	61.870
25.00	61.890
25.25	61.910
25.50	61.930
25.75	61.950
26.00	61.970
26.03	61.970

Name: NED01 Base Flow(cfs): 0.000 Init Stage(ft): 66.300
Group: NED Export Warn Stage(ft): 74.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
65.000	0.0000
66.000	0.0800
67.000	22.8700
68.000	96.6500
69.000	296.8500
70.000	696.9400
71.000	1153.7900
72.000	1639.9200
73.000	2137.4200
74.000	2643.4000

Name: NED09 Base Flow(cfs): 0.000 Init Stage(ft): 68.100
Group: NED Export Warn Stage(ft): 72.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
66.000	0.0000
67.000	0.1000
68.000	4.0700
69.000	13.8700
70.000	32.1000
71.000	69.0900
72.000	115.9300

Name: NED10 Base Flow(cfs): 0.000 Init Stage(ft): 68.700
Group: NED Export Warn Stage(ft): 76.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
67.000	0.0000
68.000	0.7100
69.000	11.6600
70.000	28.1900
71.000	61.6900

72.000	109.9800
73.000	167.1400
74.000	225.5800
75.000	284.5500
76.000	343.6400

Name: NED11 Base Flow(cfs): 0.000 Init Stage(ft): 68.700
Group: NED Export Warn Stage(ft): 75.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
68.000	0.0000
69.000	5.5300
70.000	13.4800
71.000	26.0600
72.000	45.5400
73.000	69.3100
74.000	95.9500
75.000	126.5600

Name: NED12 Base Flow(cfs): 0.000 Init Stage(ft): 69.500
Group: NED Export Warn Stage(ft): 76.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
66.000	0.0000
67.000	0.0100
68.000	0.5500
69.000	1.1200
70.000	1.7300
71.000	2.3800
72.000	3.0600
73.000	3.8200
74.000	4.7500
75.000	5.8600
76.000	7.0200

Name: NED13 Base Flow(cfs): 0.000 Init Stage(ft): 70.000
Group: NED Export Warn Stage(ft): 76.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
69.000	0.0000
70.000	0.5200
71.000	1.9300
72.000	5.2400
73.000	10.0000
74.000	16.1400
75.000	26.8100
76.000	38.4300

Name: NED14 Base Flow(cfs): 0.000 Init Stage(ft): 67.000
Group: NED Export Warn Stage(ft): 78.000
Type: Time/Stage

Time/stage date were obtained from the approved Sunbridge NED conceptual permit, application #200622-3738

Time(hrs)	Stage(ft)
0.00	67.000
0.50	67.000
1.00	67.000
1.50	67.000
2.00	67.000
2.50	67.000
3.00	67.000
3.50	67.000
4.00	67.000
4.50	67.000
5.00	67.000
5.50	67.000
6.00	67.000
6.50	67.010
7.00	67.010
7.50	67.010
8.00	67.020
8.50	67.020
9.00	67.040
9.50	67.060
10.00	67.090
10.25	67.110
10.50	67.120
10.75	67.140
11.00	67.160
11.25	67.190
11.50	67.210
11.75	67.240
12.00	67.280

12.25	67.330
12.50	67.400
12.75	67.470
13.00	67.540
13.25	67.610
13.50	67.680
13.75	67.740
14.00	67.810
14.25	67.870
14.50	67.920
14.75	67.980
15.00	68.030
15.25	68.080
15.50	68.130
15.75	68.170
16.00	68.200
16.25	68.240
16.50	68.260
16.75	68.290
17.00	68.310
17.25	68.330
17.50	68.350
17.75	68.360
18.00	68.380
18.25	68.390
18.50	68.400
18.75	68.410
19.00	68.420
19.25	68.430
19.50	68.440
19.75	68.440
20.00	68.440
20.25	68.450
20.50	68.450
20.75	68.450
21.00	68.450
21.25	68.450
21.50	68.440
21.75	68.440
22.00	68.440
22.25	68.440
22.50	68.430
22.75	68.430
23.00	68.430
23.25	68.430
23.50	68.420
23.75	68.420
24.00	68.420
24.25	68.410
24.50	68.410
24.75	68.400

25.00	68.400
25.25	68.400
25.50	68.390
25.75	68.390
26.00	68.380
26.25	68.380
26.50	68.370
26.75	68.370
27.00	68.370
27.25	68.360
27.50	68.360
27.75	68.350
28.00	68.350
28.25	68.340
28.50	68.340
28.75	68.330
29.00	68.330
29.25	68.320
29.50	68.320
29.75	68.310
30.00	68.310
31.00	68.290
32.00	68.270
33.00	68.260
34.00	68.240
35.00	68.230
36.00	68.220
37.00	68.200
38.00	68.190
39.00	68.180
40.00	68.170
41.00	68.160
42.00	68.140
43.00	68.130
44.00	68.120
45.00	68.110
46.00	68.090
47.00	68.080
48.00	68.070
49.00	68.060
50.00	68.050
51.00	68.040
52.00	68.030
53.00	68.020
54.00	68.010
55.00	68.010
56.00	68.000
57.00	67.990
58.00	67.980
59.00	67.970
60.00	67.960

61.00	67.950
62.00	67.950
63.00	67.940
64.00	67.930
65.00	67.920
66.00	67.910
67.00	67.910
68.00	67.900
69.00	67.890
70.00	67.890
71.00	67.880
72.00	67.870
73.00	67.870
74.00	67.860
75.00	67.860
76.00	67.850
77.00	67.850
78.00	67.840
79.00	67.840
80.00	67.840
81.00	67.830
82.00	67.830
83.00	67.820
84.00	67.820
85.00	67.820
86.00	67.810
87.00	67.810
88.00	67.810
89.00	67.800
90.00	67.800
91.00	67.790
92.00	67.790
93.00	67.780
94.00	67.780
95.00	67.770
96.00	67.770
97.00	67.770
98.00	67.760
99.00	67.760
100.00	67.750
101.00	67.750
102.00	67.750
103.00	67.740
104.00	67.740
105.00	67.730
106.00	67.730
107.00	67.730
108.00	67.720
109.00	67.720
110.00	67.710
111.00	67.710

112.00	67.710
113.00	67.700
114.00	67.700
115.00	67.700
116.00	67.690
117.00	67.690
118.00	67.690
119.00	67.680
120.00	67.680
121.00	67.680
122.00	67.670
123.00	67.670
124.00	67.670
125.00	67.670
126.00	67.660
127.00	67.660
128.00	67.660
129.00	67.660
130.00	67.660
131.00	67.650
132.00	67.650
133.00	67.650
134.00	67.650
135.00	67.650
136.00	67.640
137.00	67.640
138.00	67.640
139.00	67.640
140.00	67.640
141.00	67.630
142.00	67.630
143.00	67.630
144.00	67.630
145.00	67.630
146.00	67.630
147.00	67.620
148.00	67.620
149.00	67.620
150.00	67.620
151.00	67.620
152.00	67.620
153.00	67.620
154.00	67.610
155.00	67.610
156.00	67.610
157.00	67.610
158.00	67.610
159.00	67.610
160.00	67.610
161.00	67.600
162.00	67.600

163.00	67.600
164.00	67.600
165.00	67.600
166.00	67.600
167.00	67.600
168.00	67.600
169.00	67.600
170.00	67.590
171.00	67.590
172.00	67.590
173.00	67.590
174.00	67.590
175.00	67.590
176.00	67.590
177.00	67.590
178.00	67.580
179.00	67.580
180.00	67.580
181.00	67.580
182.00	67.580
183.00	67.580
184.00	67.580
185.00	67.580
186.00	67.580
187.00	67.580
188.00	67.570
189.00	67.570
190.00	67.570
191.00	67.570
192.00	67.570
193.00	67.570
194.00	67.570
195.00	67.570
196.00	67.570
197.00	67.570
198.00	67.560
199.00	67.560
200.00	67.560
201.00	67.560
202.00	67.560
203.00	67.560
204.00	67.560
205.00	67.560
206.00	67.560
207.00	67.560
208.00	67.560
209.00	67.560
210.00	67.550
211.00	67.550
212.00	67.550
213.00	67.550

214.00	67.550
215.00	67.550
216.00	67.550
217.00	67.550
218.00	67.550
219.00	67.550
220.00	67.550
221.00	67.550
222.00	67.550
223.00	67.550
224.00	67.540
225.00	67.540
226.00	67.540
227.00	67.540
228.00	67.540
229.00	67.540
230.00	67.530
231.00	67.530
232.00	67.530
233.00	67.530
234.00	67.530
235.00	67.520
236.00	67.520
237.00	67.520
238.00	67.520
239.00	67.520
240.00	67.510
241.00	67.510
242.00	67.510
243.00	67.510
244.00	67.510
245.00	67.500
246.00	67.500
247.00	67.500
248.00	67.500
249.00	67.490
250.00	67.490
251.00	67.490
252.00	67.490
253.00	67.490
254.00	67.480
255.00	67.480
256.00	67.480
257.00	67.480
258.00	67.470
259.00	67.470
260.00	67.470
261.00	67.470
262.00	67.460
263.00	67.460
264.00	67.460

265.00	67.460
266.00	67.450
267.00	67.450
268.00	67.450
269.00	67.450
270.00	67.440
271.00	67.440
272.00	67.440
273.00	67.440
274.00	67.430
275.00	67.430
276.00	67.430
277.00	67.430
278.00	67.430
279.00	67.420
280.00	67.420
281.00	67.420
282.00	67.420
283.00	67.410
284.00	67.410
285.00	67.410
286.00	67.410
287.00	67.400
288.00	67.400
289.00	67.400
290.00	67.400
291.00	67.390
292.00	67.390
293.00	67.390
294.00	67.390
295.00	67.380
296.00	67.380
297.00	67.380
298.00	67.380
299.00	67.370
300.00	67.370

Name: NED28 Base Flow(cfs): 0.000 Init Stage(ft): 70.000
Group: NED Export Warn Stage(ft): 77.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
67.000	0.0000
68.000	0.0800
69.000	0.9400
70.000	9.1300
71.000	20.8100

72.000	37.5200
73.000	61.5600
74.000	92.2300
75.000	158.0300
76.000	224.3800
77.000	290.8500

Name: NED29 Base Flow(cfs): 0.000 Init Stage(ft): 69.000
Group: NED Export Warn Stage(ft): 76.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
67.000	0.0000
68.000	0.0300
69.000	17.4100
70.000	56.2900
71.000	112.0300
72.000	188.5600
73.000	281.7500
74.000	397.7400
75.000	537.0700
76.000	729.8400

Name: OFF05 Base Flow(cfs): 0.000 Init Stage(ft): 71.500
Group: NED Export Warn Stage(ft): 75.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
70.520	0.0000
71.000	1.5000
72.000	11.7900
73.000	39.4500
74.000	77.7100
75.000	134.7400

Name: OFF06 Base Flow(cfs): 0.000 Init Stage(ft): 70.550
Group: NED Export Warn Stage(ft): 75.000
Type: Stage/Volume

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)

70.550	0.0000
71.000	48.8100
72.000	165.9900
73.000	299.1700
74.000	480.3300
75.000	753.7900

Name: OFF7-1 Base Flow(cfs): 0.000 Init Stage(ft): 67.000
Group: NED Export Warn Stage(ft): 72.000
Type: Stage/Area

Upstream end of channel (east of Absher Rd)
Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Area(ac)
67.000	0.0100
72.000	0.0200

Name: OFF7-2 Base Flow(cfs): 0.000 Init Stage(ft): 67.000
Group: NED Export Warn Stage(ft): 72.000
Type: Stage/Volume

Downstream end of channel @ western property bndy

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

Stage(ft)	Volume(af)
67.000	0.0100
72.000	0.0200

Name: POND 102 Base Flow(cfs): 0.000 Init Stage(ft): 60.500
Group: BASE Warn Stage(ft): 64.500
Type: Stage/Area

Stage(ft)	Area(ac)
60.500	0.8100
63.500	1.1000
64.500	1.3100

Name: POND 107 Base Flow(cfs): 0.000 Init Stage(ft): 70.500
Group: BASE-POST Warn Stage(ft): 73.200

Type: Stage/Area

Stage(ft)	Area(ac)
70.500	3.0700
72.200	3.3200
73.200	3.7000

Name: POND 108 Base Flow(cfs): 0.000 Init Stage(ft): 70.500
Group: BASE-POST Warn Stage(ft): 73.500
Type: Stage/Area

Stage(ft)	Area(ac)
70.500	1.6200
72.500	1.9300
73.500	2.3200

Name: POND E-1 Base Flow(cfs): 0.000 Init Stage(ft): 57.790
Group: BASE Warn Stage(ft): 62.000
Type: Stage/Area

Pond stages were obtained from SWWMD Permit #49-103660-P; Application #200622-3730.

Stage(ft)	Area(ac)
57.790	2.0100
60.990	2.5200
61.990	2.8500

Name: S-62 Base Flow(cfs): 0.000 Init Stage(ft): 57.000
Group: BASE Warn Stage(ft): 64.000
Type: Stage/Area

Information from Dewberry MDR report April 2014(SFWMD Permit# 48-02392-P)

Stage(ft)	Area(ac)

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==== Cross Sections ==========
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Name: Hendon Weir Group: BASE

Encroachment: No

Information from Dewberry report April 2014.

Station(ft)	Elevation(ft)	Manning's N
0.000	64.000	0.000000
520.000	61.000	0.000000
800.000	61.000	0.000000
1025.000	64.000	0.000000

Name: NED01-1 Group: NED Export
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	70.000	0.000000
2.000	70.000	0.000000
90.000	69.000	0.000000
112.000	68.500	0.000000
134.000	68.100	0.000000
186.000	68.000	0.000000
205.000	67.600	0.000000
230.000	67.100	0.000000
235.000	67.000	0.000000
246.000	67.400	0.000000
247.000	67.400	0.000000
254.000	67.100	0.000000
265.000	67.000	0.000000
301.000	67.000	0.000000
309.000	66.900	0.000000
315.000	66.700	0.000000
339.000	66.000	0.000000
356.000	66.000	0.000000
358.000	65.800	0.000000
379.000	66.000	0.000000
429.000	67.000	0.000000
437.000	67.300	0.000000
454.000	68.000	0.000000
623.000	68.100	0.000000
716.000	68.100	0.000000
726.000	68.200	0.000000
783.000	68.200	0.000000
851.000	68.600	0.000000
890.000	69.000	0.000000
1279.000	69.000	0.000000
1317.000	68.700	0.000000
1526.000	69.000	0.000000

1949.000	69.000	0.000000
2027.000	69.700	0.000000
2087.000	70.000	0.000000
2100.000	70.000	0.000000

Name: NED09 Group: NED Export
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	70.000	0.000000
161.000	70.000	0.000000
268.000	69.400	0.000000
312.000	69.100	0.000000
397.000	69.000	0.000000
1236.000	69.000	0.000000
1338.000	68.900	0.000000
1342.000	69.000	0.000000
1399.000	69.000	0.000000
1536.000	68.000	0.000000
1587.000	68.100	0.000000
1628.000	68.200	0.000000
1643.000	68.000	0.000000
1796.000	68.000	0.000000
1917.000	69.000	0.000000
1957.000	69.000	0.000000
1975.000	68.700	0.000000
1979.000	68.600	0.000000
1988.000	68.600	0.000000
2040.000	68.000	0.000000
2046.000	68.000	0.000000
2131.000	68.500	0.000000
2226.000	69.000	0.000000
2413.000	69.000	0.000000
2735.000	70.000	0.000000

Name: NED10 Group: NED Export
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	72.600	0.000000
2.000	72.600	0.000000
7.000	72.200	0.000000
9.000	72.300	0.000000

10.000	72.000	0.000000
11.000	71.800	0.000000
13.000	71.500	0.000000
14.000	71.200	0.000000
15.000	71.000	0.000000
17.000	70.400	0.000000
19.000	70.000	0.000000
58.000	70.000	0.000000
59.000	69.900	0.000000
62.000	70.000	0.000000
70.000	70.000	0.000000
107.000	69.800	0.000000
221.000	70.000	0.000000
349.000	70.000	0.000000
381.000	69.600	0.000000
390.000	69.500	0.000000
459.000	69.600	0.000000
475.000	69.800	0.000000
501.000	69.900	0.000000
814.000	69.900	0.000000
1580.000	70.000	0.000000
1694.000	70.000	0.000000
1927.000	71.100	0.000000
2687.000	70.700	0.000000

Name: NED11 Group: NED Export
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	71.000	0.000000
1.000	71.000	0.000000
51.000	70.700	0.000000
52.000	70.700	0.000000
180.000	70.000	0.000000
537.000	70.000	0.000000
600.000	70.500	0.000000
660.000	71.000	0.000000

Name: NED12 Group: NED Export
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	74.000	0.000000

1.000	74.000	0.000000
17.000	73.600	0.000000
39.000	73.100	0.000000
47.000	73.100	0.000000
104.000	73.000	0.000000
127.000	72.500	0.000000
150.000	72.000	0.000000
183.000	72.000	0.000000
185.000	72.100	0.000000
194.000	72.400	0.000000
198.000	72.500	0.000000
199.000	72.600	0.000000
201.000	72.800	0.000000
203.000	73.000	0.000000
207.000	73.100	0.000000
212.000	73.100	0.000000
225.000	73.600	0.000000
237.000	74.000	0.000000

Name: NED13-1 Group: NED Export
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	71.000	0.000000
305.000	71.000	0.000000
415.000	71.100	0.000000
426.000	71.200	0.000000
512.000	71.800	0.000000
525.000	71.800	0.000000
549.000	72.000	0.000000
735.000	73.000	0.000000
754.000	73.000	0.000000

Name: NED13-2 Group: NED Export
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	71.000	0.000000
305.000	71.000	0.000000
415.000	71.100	0.000000
426.000	71.200	0.000000
512.000	71.800	0.000000
525.000	71.800	0.000000

549.000	72.000	0.000000
735.000	73.000	0.000000
754.000	73.000	0.000000

Name: NED28 Group: NED Export
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	73.100	0.000000
3.000	73.000	0.000000
25.000	73.000	0.000000
29.000	73.100	0.000000
31.000	73.100	0.000000
34.000	73.000	0.000000
39.000	73.000	0.000000
43.000	73.200	0.000000
52.000	73.800	0.000000
53.000	73.800	0.000000
55.000	74.000	0.000000
71.000	74.000	0.000000
77.000	73.700	0.000000
82.000	73.500	0.000000
83.000	73.400	0.000000
101.000	73.100	0.000000
107.000	73.100	0.000000
193.000	73.000	0.000000
250.000	72.000	0.000000
268.000	71.300	0.000000
275.000	71.000	0.000000
366.000	71.100	0.000000
450.000	71.000	0.000000
458.000	71.000	0.000000
479.000	71.200	0.000000
525.000	72.000	0.000000
819.000	73.000	0.000000
946.000	73.000	0.000000

Name: NED29 Group: NED Export
Encroachment: No

Station(ft)	Elevation(ft)	Manning's N
0.000	71.000	0.000000
79.000	70.000	0.000000

298.000	70.000	0.000000
311.000	70.400	0.000000
332.000	70.700	0.000000
335.000	70.500	0.000000
349.000	70.000	0.000000
397.000	70.000	0.000000
401.000	69.900	0.000000
416.000	69.600	0.000000
435.000	69.500	0.000000
466.000	70.000	0.000000
707.000	70.000	0.000000
714.000	70.200	0.000000
733.000	71.000	0.000000

==========
==== Pipes ==========
==========

Name: BOX-CULVERTS From Node: Lake Ajay S Length(ft): 110.00
Group: BASE To Node: Lake Ajay N Count: 10
Friction Equation: Automatic

	UPSTREAM	DOWNSTREAM		
Geometry:	Rectangular	Rectangular	Solution Algorithm:	Automatic
Span(in):	72.00	72.00	Flow:	Both
Rise(in):	36.00	36.00	Entrance Loss Coef:	0.00
Invert(ft):	55.500	55.000	Exit Loss Coef:	1.00
Manning's N:	0.012000	0.012000	Bend Loss Coef:	0.00
Top Clip(in):	0.000	0.000	Outlet Ctrl Spec:	Use dc or tw
Bot Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dc
			Stabilizer Option:	None

Upstream FHWA Inlet Edge Description:
Rectangular Box: 30° to 75° wingwall flares

Downstream FHWA Inlet Edge Description:
Rectangular Box: 30° to 75° wingwall flares

Proposed Culverts.

Name: OFF7 P From Node: OFF7-2 Length(ft): 20.00
Group: NED Export To Node: NED14 Count: 1
Friction Equation: Automatic

	UPSTREAM	DOWNSTREAM		
Geometry:	Horz Ellipse	Horz Ellipse	Solution Algorithm:	Automatic
Span(in):	60.00	60.00	Flow:	Both
Rise(in):	31.00	31.00	Entrance Loss Coef:	0.90
Invert(ft):	66.260	66.080	Exit Loss Coef:	0.50
Manning's N:	0.024000	0.024000	Bend Loss Coef:	0.00
Top Clip(in):	0.000	0.000	Outlet Ctrl Spec:	Use dc or tw
			Inlet Ctrl Spec:	Use dn

```
 Bot Clip(in): 0.000          0.000                       Stabilizer Option: None


Upstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Groove end projecting

Downstream FHWA Inlet Edge Description:
Horizontal Ellipse Concrete: Groove end projecting

DWMA Survey-Under dirt road western bndy

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

================================================================================
==== Channels ==================================================================
================================================================================

          Name: C-29A               From Node: S-62              Length(ft): 6740.00
         Group: BASE                  To Node: Lake Ajay N            Count: 1

                UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
      Geometry: Trapezoidal    Trapezoidal               Solution Algorithm: Automatic
    Invert(ft): 47.000         47.000                               Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                   Contraction Coef: 0.100
   Manning's N: 0.033000       0.033000                     Expansion Coef: 0.300
  Top Clip(ft): 0.000          0.000                     Entrance Loss Coef: 0.000
  Bot Clip(ft): 0.000          0.000                         Exit Loss Coef: 0.000
     Main XSec:                                           Outlet Ctrl Spec: Use dc or tw
  AuxElev1(ft):                                            Inlet Ctrl Spec: Use dc
     Aux XSec1:                                          Stabilizer Option: None
  AuxElev2(ft):
     Aux XSec2:
 Top Width(ft):
     Depth(ft):
 Bot Width(ft): 10.000         10.000
  LtSdSlp(h/v): 2.00           2.00
  RtSdSlp(h/v): 2.00           2.00

Information from Dewberry MDR report April 2014(SFWMD Permit# 48-02392-P)

--------------------------------------------------------------------------------------------------
          Name: C-29B               From Node: Lake Ajay N       Length(ft): 4800.00
         Group: BASE                  To Node: E Toho                 Count: 1

                UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
      Geometry: Trapezoidal    Trapezoidal               Solution Algorithm: Automatic
    Invert(ft): 47.000         47.000                               Flow: Both
 TClpInitZ(ft): 9999.000       9999.000                   Contraction Coef: 0.100
   Manning's N: 0.033000       0.033000                     Expansion Coef: 0.300
  Top Clip(ft): 0.000          0.000                     Entrance Loss Coef: 0.000
```

Bot Clip(ft):	0.000	0.000	Exit Loss Coef:	0.000
Main XSec:			Outlet Ctrl Spec:	Use dc or tw
AuxElev1(ft):			Inlet Ctrl Spec:	Use dc
Aux XSec1:			Stabilizer Option:	None
AuxElev2(ft):				
Aux XSec2:				
Top Width(ft):				
Depth(ft):				
Bot Width(ft):	10.000	10.000		
LtSdSlp(h/v):	2.00	2.00		
RtSdSlp(h/v):	2.00	2.00		

Information from Dewberry MDR report April 2014(SFWMD Permit# 48-02392-P)

Name:	OFF7	From Node:	OFF7-1	Length(ft):	1400.00
Group:	NED Export	To Node:	OFF7-2	Count:	1

	UPSTREAM	DOWNSTREAM		
			Friction Equation:	Automatic
Geometry:	Trapezoidal	Trapezoidal	Solution Algorithm:	Automatic
Invert(ft):	67.000	67.000	Flow:	Both
TClpInitZ(ft):	9999.000	9999.000	Contraction Coef:	0.100
Manning's N:	0.040000	0.040000	Expansion Coef:	0.300
Top Clip(ft):	0.000	0.000	Entrance Loss Coef:	0.000
Bot Clip(ft):	0.000	0.000	Exit Loss Coef:	0.000
Main XSec:			Outlet Ctrl Spec:	Use dc or tw
AuxElev1(ft):			Inlet Ctrl Spec:	Use dn
Aux XSec1:			Stabilizer Option:	None
AuxElev2(ft):				
Aux XSec2:				
Top Width(ft):				
Depth(ft):				
Bot Width(ft):	10.000	10.000		
LtSdSlp(h/v):	1.50	1.50		
RtSdSlp(h/v):	1.50	1.50		

Crossing 2 - Site visit 11/12/09
Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

==========
==== Drop Structures ==========
==========

Name:	CS-102	From Node:	POND 102	Length(ft):	50.00
Group:	BASE	To Node:	Lake Ajay S	Count:	1

	UPSTREAM	DOWNSTREAM		
			Friction Equation:	Automatic
Geometry:	Circular	Circular	Solution Algorithm:	Automatic
Span(in):	30.00	30.00	Flow:	Both
Rise(in):	30.00	30.00	Entrance Loss Coef:	0.500
Invert(ft):	57.000	56.500	Exit Loss Coef:	1.000

```
  Manning's N: 0.012000       0.012000                  Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                      Inlet Ctrl Spec: Use dc
 Bot Clip(in): 0.000          0.000                        Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall



*** Weir 1 of 3 for Drop Structure CS-102 ***
                                                                                TABLE
                  Count: 1                      Bottom Clip(in): 0.000
                   Type: Vertical: Mavis           Top Clip(in): 0.000
                   Flow: Both                   Weir Disc Coef: 3.200
               Geometry: Circular              Orifice Disc Coef: 0.600

               Span(in): 3.00                        Invert(ft): 60.500
               Rise(in): 3.00                 Control Elev(ft): 60.500

*** Weir 2 of 3 for Drop Structure CS-102 ***
                                                                                TABLE
                  Count: 1                      Bottom Clip(in): 0.000
                   Type: Vertical: Mavis           Top Clip(in): 0.000
                   Flow: Both                   Weir Disc Coef: 3.200
               Geometry: Rectangular           Orifice Disc Coef: 0.600

               Span(in): 4.00                        Invert(ft): 62.000
               Rise(in): 9999.00              Control Elev(ft): 62.000

*** Weir 3 of 3 for Drop Structure CS-102 ***
                                                                                TABLE
                  Count: 1                      Bottom Clip(in): 0.000
                   Type: Horizontal                Top Clip(in): 0.000
                   Flow: Both                   Weir Disc Coef: 3.200
               Geometry: Rectangular           Orifice Disc Coef: 0.600

               Span(in): 49.00                       Invert(ft): 63.300
               Rise(in): 37.00                Control Elev(ft): 63.300


-------------------------------------------------------------------------------------------------
         Name: CS-107              From Node: POND 107          Length(ft): 93.00
        Group: BASE-POST             To Node: OFF06                Count: 1

               UPSTREAM       DOWNSTREAM                Friction Equation: Automatic
     Geometry: Circular       Circular                 Solution Algorithm: Automatic
     Span(in): 30.00          30.00                                Flow: Both
     Rise(in): 30.00          30.00                   Entrance Loss Coef: 0.500
```

Invert(ft):	65.500	65.000	Exit Loss Coef: 1.000
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in):	0.000	0.000	Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

*** Weir 1 of 3 for Drop Structure CS-107 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Circular	Orifice Disc Coef:	0.600
Span(in):	3.00	Invert(ft):	70.500
Rise(in):	3.00	Control Elev(ft):	70.500

*** Weir 2 of 3 for Drop Structure CS-107 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	54.00	Invert(ft):	71.000
Rise(in):	9999.00	Control Elev(ft):	71.000

*** Weir 3 of 3 for Drop Structure CS-107 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	49.00	Invert(ft):	71.800
Rise(in):	37.00	Control Elev(ft):	71.800

Name:	CS-108	From Node: POND 108	Length(ft): 60.00
Group:	BASE-POST	To Node: OFF06	Count: 1

	UPSTREAM	DOWNSTREAM		
			Friction Equation:	Automatic
Geometry:	Circular	Circular	Solution Algorithm:	Automatic
Span(in):	30.00	30.00	Flow:	Both

Rise(in):	30.00	30.00	Entrance Loss Coef: 0.500
Invert(ft):	65.500	65.000	Exit Loss Coef: 1.000
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in):	0.000	0.000	Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

*** Weir 1 of 3 for Drop Structure CS-108 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Circular	Orifice Disc Coef:	0.600
Span(in):	3.00	Invert(ft):	70.500
Rise(in):	3.00	Control Elev(ft):	70.500

*** Weir 2 of 3 for Drop Structure CS-108 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Mavis	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	60.00	Invert(ft):	71.300
Rise(in):	9999.00	Control Elev(ft):	71.300

*** Weir 3 of 3 for Drop Structure CS-108 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	49.00	Invert(ft):	72.100
Rise(in):	37.00	Control Elev(ft):	72.100

Name:	CS-E1	From Node: POND E-1	Length(ft): 36.00
Group:	BASE	To Node: Lake Ajay N	Count: 1

	UPSTREAM	DOWNSTREAM	
Geometry:	Circular	Circular	Friction Equation: Automatic
			Solution Algorithm: Automatic

Span(in):	24.00	24.00	Flow: Both
Rise(in):	24.00	24.00	Entrance Loss Coef: 0.500
Invert(ft):	57.000	56.910	Exit Loss Coef: 1.000
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec: Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec: Use dc
Bot Clip(in):	0.000	0.000	Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Structure was obtained from SWWMD Permit #49-103660-P; Application #200622-3730.

*** Weir 1 of 1 for Drop Structure CS-E1 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	37.00	Invert(ft):	60.800
Rise(in):	24.00	Control Elev(ft):	60.800

Name:	CS-OS3	From Node:	POND E-1	Length(ft):	1153.00
Group:	BASE	To Node:	Manhole O-118	Count:	1

	UPSTREAM	DOWNSTREAM		
			Friction Equation:	Automatic
Geometry:	Circular	Circular	Solution Algorithm:	Automatic
Span(in):	24.00	24.00	Flow:	Both
Rise(in):	24.00	24.00	Entrance Loss Coef:	0.500
Invert(ft):	53.980	52.680	Exit Loss Coef:	1.000
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec:	Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dc
Bot Clip(in):	0.000	0.000	Solution Incs:	10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Structure was obtained from SWWMD Permit #49-103660-P; Application #200622-3730.

*** Weir 1 of 3 for Drop Structure CS-OS3 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Fread	Top Clip(in):	0.000

```
                Flow: Both                    Weir Disc Coef: 3.200
            Geometry: Circular             Orifice Disc Coef: 0.600

            Span(in): 4.75                       Invert(ft): 57.790
            Rise(in): 4.75                Control Elev(ft): 57.790

*** Weir 2 of 3 for Drop Structure CS-OS3 ***
                                                                  TABLE
               Count: 1                     Bottom Clip(in): 0.000
                Type: Vertical: Mavis          Top Clip(in): 0.000
                Flow: Both                    Weir Disc Coef: 3.200
            Geometry: Rectangular          Orifice Disc Coef: 0.600

            Span(in): 56.40                      Invert(ft): 59.090
            Rise(in): 15.60               Control Elev(ft): 59.090

*** Weir 3 of 3 for Drop Structure CS-OS3 ***
                                                                  TABLE
               Count: 1                     Bottom Clip(in): 0.000
                Type: Horizontal              Top Clip(in): 0.000
                Flow: Both                    Weir Disc Coef: 3.200
            Geometry: Rectangular          Orifice Disc Coef: 0.600

            Span(in): 37.20                      Invert(ft): 60.390
            Rise(in): 49.20               Control Elev(ft): 60.390


-------------------------------------------------------------------------------------------------
         Name: NED29 P             From Node: NED29             Length(ft): 21.00
        Group: NED Export            To Node: NED14                  Count: 1

               UPSTREAM       DOWNSTREAM               Friction Equation: Automatic
     Geometry: Circular       Circular                 Solution Algorithm: Automatic
     Span(in): 24.00          24.00                                Flow: Both
     Rise(in): 24.00          24.00                    Entrance Loss Coef: 0.500
   Invert(ft): 68.110         67.730                       Exit Loss Coef: 0.500
  Manning's N: 0.024000       0.024000                   Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                       Inlet Ctrl Spec: Use dn
 Bot Clip(in): 0.000          0.000                          Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular CMP: Projecting

Downstream FHWA Inlet Edge Description:
Circular CMP: Projecting

DWMA Survey-Under dirt drive across wetlands west of Lake Myrtle

Artificial weir added to maintain upstream initial stage elevation.

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441
```

*** Weir 1 of 1 for Drop Structure NED29 P ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Vertical: Fread	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.200
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	9999.00	Invert(ft):	69.000
Rise(in):	9999.00	Control Elev(ft):	69.000

Name:	OFF5	From Node: OFF05	Length(ft): 50.00
Group:	NED Export	To Node: OFF06	Count: 1

	UPSTREAM	DOWNSTREAM		
			Friction Equation:	Automatic
Geometry:	Circular	Circular	Solution Algorithm:	Automatic
Span(in):	18.00	18.00	Flow:	Both
Rise(in):	18.00	18.00	Entrance Loss Coef:	0.500
Invert(ft):	69.000	69.000	Exit Loss Coef:	1.000
Manning's N:	0.012000	0.012000	Outlet Ctrl Spec:	Use dc or tw
Top Clip(in):	0.000	0.000	Inlet Ctrl Spec:	Use dn
Bot Clip(in):	0.000	0.000	Solution Incs:	10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Downstream FHWA Inlet Edge Description:
Circular Concrete: Square edge w/ headwall

Crossing 1 - Field visit 11/12/09

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

*** Weir 1 of 2 for Drop Structure OFF5 ***

TABLE

Count:	1	Bottom Clip(in):	0.000
Type:	Horizontal	Top Clip(in):	0.000
Flow:	Both	Weir Disc Coef:	3.000
Geometry:	Rectangular	Orifice Disc Coef:	0.600
Span(in):	48.00	Invert(ft):	73.000
Rise(in):	60.00	Control Elev(ft):	73.000

*** Weir 2 of 2 for Drop Structure OFF5 ***

TABLE

Count:	1	Bottom Clip(ft):	0.000
Type:	Vertical: Mavis	Top Clip(ft):	0.000

```
                  Flow: Both                    Weir Disc Coef: 3.200
              Geometry: Trapezoidal           Orifice Disc Coef: 0.600

       Bottom Width(ft): 0.00                       Invert(ft): 71.500
       Left Sd Slp(h/v): 0.19                  Control Elev(ft): 71.500
      Right Sd Slp(h/v): 0.19             Struct Opening Dim(ft): 9999.00


-------------------------------------------------------------------------------------------------
         Name: OFF6                From Node: OFF06              Length(ft): 40.00
        Group: NED Export            To Node: OFF7-1                Count: 2

               UPSTREAM       DOWNSTREAM                 Friction Equation: Automatic
     Geometry: Circular       Circular                  Solution Algorithm: Automatic
     Span(in): 24.00          24.00                                Flow: Both
     Rise(in): 24.00          24.00                    Entrance Loss Coef: 0.900
   Invert(ft): 70.000         70.000                       Exit Loss Coef: 0.500
  Manning's N: 0.012000       0.012000                   Outlet Ctrl Spec: Use dc or tw
 Top Clip(in): 0.000          0.000                       Inlet Ctrl Spec: Use dn
 Bot Clip(in): 0.000          0.000                          Solution Incs: 10

Upstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

Downstream FHWA Inlet Edge Description:
Circular Concrete: Groove end projecting

Crossing 2 - Site visit 11/12/09 (Absher Rd)

Artificial weir added to maintain upstream initial stage elevation.
Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

*** Weir 1 of 1 for Drop Structure OFF6 ***
                                                                                  TABLE
                  Count: 1                      Bottom Clip(in): 0.000
                   Type: Vertical: Fread           Top Clip(in): 0.000
                   Flow: Both                   Weir Disc Coef: 3.200
              Geometry: Rectangular           Orifice Disc Coef: 0.600

              Span(in): 9999.00                       Invert(ft): 70.550
              Rise(in): 9999.00                  Control Elev(ft): 70.550


===============================================================================================
==== Weirs ====================================================================================
===============================================================================================

         Name: Hendon Weir         From Node: Lake Hendon
        Group: BASE                  To Node: Lake Ajay S
         Flow: Both                     Count: 1
         Type: Vertical: Fread      Geometry: Irregular
```

```
                     XSec: Hendon Weir
                Invert(ft): 61.000
       Control Elevation(ft): 61.000
      Struct Opening Dim(ft): 9999.00
                                        TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
          Weir Discharge Coef: 3.000
      Orifice Discharge Coef: 0.600

Information from Dewberry MDR report April 2014(SFWMD Permit# 48-02392-P)

-------------------------------------------------------------------------------------------------
         Name: NED01-1             From Node: NED01
        Group: NED Export            To Node: MARYJANE TW
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                     XSec: NED01-1
                Invert(ft): 65.800
       Control Elevation(ft): 66.300
      Struct Opening Dim(ft): 9999.00
                                        TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
          Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED09               From Node: NED09
        Group: NED Export            To Node: NED01
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                     XSec: NED09
                Invert(ft): 68.000
       Control Elevation(ft): 68.100
      Struct Opening Dim(ft): 9999.00
                                        TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
          Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED10               From Node: NED10
```

```
        Group: NED Export            To Node: NED14
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                        XSec: NED10
                  Invert(ft): 69.500
       Control Elevation(ft): 69.500
      Struct Opening Dim(ft): 9999.00
                                        TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
          Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED11               From Node: NED11
        Group: NED Export            To Node: NED01
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                        XSec: NED11
                  Invert(ft): 70.000
       Control Elevation(ft): 70.000
      Struct Opening Dim(ft): 9999.00
                                        TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
          Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED12               From Node: NED12
        Group: NED Export            To Node: NED10
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                        XSec: NED12
                  Invert(ft): 72.000
       Control Elevation(ft): 72.000
      Struct Opening Dim(ft): 9999.00
                                        TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
          Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441
```

```
-------------------------------------------------------------------------------------------------
         Name: NED13-1             From Node: NED13
        Group: NED Export            To Node: NED10
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                        XSec: NED13-1
                  Invert(ft): 71.000
       Control Elevation(ft): 71.000
      Struct Opening Dim(ft): 9999.00
                                        TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
          Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED13-2             From Node: NED13
        Group: NED Export            To Node: NED11
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                        XSec: NED13-2
                  Invert(ft): 71.000
       Control Elevation(ft): 71.000
      Struct Opening Dim(ft): 9999.00
                                        TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
          Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

-------------------------------------------------------------------------------------------------
         Name: NED28               From Node: NED28
        Group: NED Export            To Node: NED29
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                        XSec: NED28
                  Invert(ft): 71.000
       Control Elevation(ft): 71.000
      Struct Opening Dim(ft): 9999.00
                                        TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
          Weir Discharge Coef: 2.600
```

```
      Orifice Discharge Coef: 0.600

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

------------------------------------------------------------------------------------------------------
         Name: NED29               From Node: NED29
        Group: NED Export            To Node: NED14
         Flow: Both                    Count: 1
         Type: Vertical: Fread      Geometry: Irregular

                        XSec: NED29
                  Invert(ft): 69.500
       Control Elevation(ft): 69.500
      Struct Opening Dim(ft): 9999.00
                                        TABLE
             Bottom Clip(ft): 0.000
                Top Clip(ft): 0.000
          Weir Discharge Coef: 2.600
      Orifice Discharge Coef: 0.600

Approved NED LOMR-NAVD88 Master ICPR3 model, obtained from "Northeast District (NED)" FEMA Case# R1367780524441

------------------------------------------------------------------------------------------------------
         Name: S-62                From Node: Lake Hart
        Group: BASE                  To Node: S-62
         Flow: Positive                Count: 1
         Type: Vertical: Mavis      Geometry: Rectangular

                    Span(in): 168.00
                    Rise(in): 146.30
                  Invert(ft): 54.300
       Control Elevation(ft): 54.300
                                        TABLE
             Bottom Clip(in): 0.000
                Top Clip(in): 0.000
          Weir Discharge Coef: 3.200
      Orifice Discharge Coef: 0.600

Information from Dewberry MDR report April 2014(SFWMD Permit# 48-02392-P)

==============================================================================
==== Hydrology Simulations ===================================================
==============================================================================

         Name: 100Y-24H
     Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100Y-24H.R32

      Override Defaults: Yes
    Storm Duration(hrs): 24.00
          Rainfall File: Flmod
    Rainfall Amount(in): 10.40
```

Time(hrs)	Print Inc(min)
30.000	5.00

Name: 100Y-72H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100Y-72H.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 12.00

Time(hrs)	Print Inc(min)
90.000	5.00

Name: 100YR-24H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100YR-24H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Flmod
Rainfall Amount(in): 10.40

Time(hrs)	Print Inc(min)
10.000	15.00
30.000	60.00

Name: 100YR-24HR-BS
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100YR-24HR-BS.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Orange
Rainfall Amount(in): 11.30

Time(hrs)	Print Inc(min)
60.000	5.00

Name: 100YR-72H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100YR-72H.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00

Rainfall File: Sfwmd72
Rainfall Amount(in): 13.50

Time(hrs)	Print Inc(min)
90.000	5.00

Name: 10Y-24H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\10Y-24H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Flmod
Rainfall Amount(in): 6.00

Time(hrs)	Print Inc(min)
30.000	5.00

Name: 10Y-72H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\10Y-72H.R32

Override Defaults: Yes
Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 8.00

Time(hrs)	Print Inc(min)
90.000	5.00

Name: 10YR-24H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\10YR-24H.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Flmod
Rainfall Amount(in): 6.50

Time(hrs)	Print Inc(min)
60.000	5.00

Name: 10YR-72H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\10YR-72H.R32

Override Defaults: Yes

Storm Duration(hrs): 72.00
Rainfall File: Sfwmd72
Rainfall Amount(in): 8.50

Time(hrs)	Print Inc(min)
100.000	5.00

Name: 50YR-24HR
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\50YR-24HR.R32

Override Defaults: Yes
Storm Duration(hrs): 24.00
Rainfall File: Flmod
Rainfall Amount(in): 8.40

Time(hrs)	Print Inc(min)
30.000	5.00

==========
==== Routing Simulations ==========
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Name: 100Y-24H Hydrology Sim: 100Y-24H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100Y-24H.I32

Execute: No Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 150.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

Value of 11.3" & Orange used with Dewberry Model ICPR3
Value of 10" & FL Mod used with P&B Cyrils Narcoossee Intersection ICPR4 (10" value from SFWMD Vol II sheet A-16 (49 of 58)
Note: pay attention to GROUPS

Time(hrs)	Print Inc(min)
10.000	15.000
999.000	60.000

Group	Run
BASE	Yes

Name: 100Y-24H-BS Hydrology Sim: 100YR-24HR-BS
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100Y-24H-BS.I32

Execute: No Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 0.50 Delta Z Factor: 0.00100
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 100.00
Min Calc Time(sec): 0.3000 Max Calc Time(sec): 60.0000
Boundary Stages: BS 100yr24hr Boundary Flows:

Value of 11.3" & Orange used with Dewberry Model ICPR3
Value of 10" & FL Mod used with P&B Cyrils Narcoossee Intersection ICPR4 (10" value from SFWMD Vol II sheet A-16 (49 of 58)

Time(hrs)	Print Inc(min)
999.000	15.000

Group	Run
BASE	Yes
BASE-POST	Yes
BASE-PRE	Yes
NED Export	Yes

Name: 100Y-72H Hydrology Sim: 100Y-72H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100Y-72H.I32

Execute: No Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 72.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Ajay-S 100-72 Boundary Flows:

Time(hrs)	Print Inc(min)
90.000	15.000

Group	Run
BASE	Yes

Name: 100YR-24H Hydrology Sim: 100YR-24H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100YR-24H.I32

Execute: No Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 30.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

Time(hrs)	Print Inc(min)
9999.000	15.000

Group	Run
BASE-POST	Yes
NED Export	Yes

Name: 100YR-72H Hydrology Sim: 100YR-72H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100YR-72H.I32

Execute: No Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 90.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 90.0000
Boundary Stages: Boundary Flows:

Time(hrs)	Print Inc(min)
90.000	15.000

Group	Run
BASE-POST	Yes
NED Export	Yes

Name: 10Y-24H Hydrology Sim: 10Y-24H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100Y-24H.I32

Execute: No Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 24.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Ajay-S 10-24 Boundary Flows:

Time(hrs)	Print Inc(min)
11.750	15.000
12.500	5.000
999.000	15.000

Group	Run
BASE	Yes

Name: 10Y-72H Hydrology Sim: 10Y-72H
Filename: Z:\2017\17-042 TAVISTOCK - SUNBRIDGE\CYRILS DR\NARCOSSEE TO ABSHER\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\10Y-72H.I32

Execute: No Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 72.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Ajay-S 10-72 Boundary Flows:

Narcoossee intersection Tailwaters LAke Ajay N:
100/24=61.40
100/72=61.40
10/24=57.80
10/72=57.80

Time(hrs)	Print Inc(min)
59.500	15.000
60.500	5.000
900.000	15.000

Group	Run
BASE	Yes

Name: 10YR-24H Hydrology Sim: 10YR-24H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\100YR-24H.I32

Execute: No Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 30.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

Time(hrs)	Print Inc(min)
60.000	5.000

Group	Run
BASE-POST	Yes
NED Export	Yes

Name: 10YR-72H Hydrology Sim: 10YR-72H
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\10YR-72H.I32

Execute: No Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 90.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 90.0000
Boundary Stages: Boundary Flows:

Time(hrs)	Print Inc(min)
90.000	15.000

Group	Run

BASE-POST Yes
NED Export Yes

Name: 50Y-24H Hydrology Sim: 50YR-24HR
Filename: Z:\2017\17-042 Tavistock - Sunbridge\CYRILS DR\Narcossee to Absher\ENGINEERING\STORMWATER\ICPR3\PRELIMINARY PONDS\50Y-24H.I32

Execute: No Restart: No Patch: No
Alternative: No

Max Delta Z(ft): 1.00 Delta Z Factor: 0.00500
Time Step Optimizer: 10.000
Start Time(hrs): 0.000 End Time(hrs): 150.00
Min Calc Time(sec): 0.5000 Max Calc Time(sec): 60.0000
Boundary Stages: Boundary Flows:

Time(hrs)	Print Inc(min)
30.000	15.000

Group	Run
BASE	Yes
BASE-POST	Yes
BASE-PRE	Yes
NED Export	Yes

==========
==== Boundary Conditions ====
==========

Name: Ajay-S 10-24 Node: PONDE1 AJAY TW Type: Stage

Time(hrs)	Stage(ft)
0.000	58.500
9999.000	58.500

Name: Ajay-S 100-24 Node: PONDE1 AJAY TW Type: Stage

Time(hrs)	Stage(ft)
0.000	61.400
999.000	61.400

Name: Ajay-S 10-72 Node: PONDE1 AJAY TW Type: Stage

Time(hrs)	Stage(ft)
0.000	57.800
999.000	57.800

Name: Ajay-S 100-72 Node: PONDE1 AJAY TW Type: Stage

Time(hrs)	Stage(ft)
0.000	61.400
999.000	61.400

Name: BS 100yr24hr Node: E Toho Type: Stage

Time(hrs)	Stage(ft)
0.000	57.000
3.000	57.000
15.450	61.000
100.000	61.000

Name: BS 100yr24hr Node: Lake Hart Type: Stage

Time(hrs)	Stage(ft)
0.000	60.000
3.000	60.000
13.110	63.000
100.000	63.000

Name: NED14-100YR-24H Node: Type: Stage

Time(hrs)	Stage(ft)
0.000	67.000
0.500	67.000
1.000	67.000
1.500	67.000
2.000	67.000
2.500	67.000
3.000	67.000
3.500	67.000
4.000	67.000
4.500	67.000
5.000	67.000

5.500	67.000
6.000	67.000
6.500	67.010
7.000	67.010
7.500	67.010
8.000	67.020
8.500	67.020
9.000	67.040
9.500	67.060
10.000	67.090
10.250	67.110
10.500	67.120
10.750	67.140
11.000	67.160
11.250	67.190
11.500	67.210
11.750	67.240
12.000	67.280
12.250	67.330
12.500	67.400
12.750	67.470
13.000	67.540
13.250	67.610
13.500	67.680
13.750	67.740
14.000	67.810
14.250	67.870
14.500	67.920
14.750	67.980
15.000	68.030
15.250	68.080
15.500	68.130
15.750	68.170
16.000	68.200
16.250	68.240
16.500	68.260
16.750	68.290
17.000	68.310
17.250	68.330
17.500	68.350
17.750	68.360
18.000	68.380
18.250	68.390
18.500	68.400
18.750	68.410
19.000	68.420
19.250	68.430
19.500	68.440
19.750	68.440
20.000	68.440
20.250	68.450

20.500	68.450
20.750	68.450
21.000	68.450
21.250	68.450
21.500	68.440
21.750	68.440
22.000	68.440
22.250	68.440
22.500	68.430
22.750	68.430
23.000	68.430
23.250	68.430
23.500	68.420
23.750	68.420
24.000	68.420
24.250	68.410
24.500	68.410
24.750	68.400
25.000	68.400
25.250	68.400
25.500	68.390
25.750	68.390
26.000	68.380
26.250	68.380
26.500	68.370
26.750	68.370
27.000	68.370
27.250	68.360
27.500	68.360
27.750	68.350
28.000	68.350
28.250	68.340
28.500	68.340
28.750	68.330
29.000	68.330
29.250	68.320
29.500	68.320
29.750	68.310
30.000	68.310
31.000	68.290
32.000	68.270
33.000	68.260
34.000	68.240
35.000	68.230
36.000	68.220
37.000	68.200
38.000	68.190
39.000	68.180
40.000	68.170
41.000	68.160
42.000	68.140

43.000	68.130
44.000	68.120
45.000	68.110
46.000	68.090
47.000	68.080
48.000	68.070
49.000	68.060
50.000	68.050
51.000	68.040
52.000	68.030
53.000	68.020
54.000	68.010
55.000	68.010
56.000	68.000
57.000	67.990
58.000	67.980
59.000	67.970
60.000	67.960
61.000	67.950
62.000	67.950
63.000	67.940
64.000	67.930
65.000	67.920
66.000	67.910
67.000	67.910
68.000	67.900
69.000	67.890
70.000	67.890
71.000	67.880
72.000	67.870
73.000	67.870
74.000	67.860
75.000	67.860
76.000	67.850
77.000	67.850
78.000	67.840
79.000	67.840
80.000	67.840
81.000	67.830
82.000	67.830
83.000	67.820
84.000	67.820
85.000	67.820
86.000	67.810
87.000	67.810
88.000	67.810
89.000	67.800
90.000	67.800
91.000	67.790
92.000	67.790
93.000	67.780

94.000	67.780
95.000	67.770
96.000	67.770
97.000	67.770
98.000	67.760
99.000	67.760
100.000	67.750
101.000	67.750
102.000	67.750
103.000	67.740
104.000	67.740
105.000	67.730
106.000	67.730
107.000	67.730
108.000	67.720
109.000	67.720
110.000	67.710
111.000	67.710
112.000	67.710
113.000	67.700
114.000	67.700
115.000	67.700
116.000	67.690
117.000	67.690
118.000	67.690
119.000	67.680
120.000	67.680
121.000	67.680
122.000	67.670
123.000	67.670
124.000	67.670
125.000	67.670
126.000	67.660
127.000	67.660
128.000	67.660
129.000	67.660
130.000	67.660
131.000	67.650
132.000	67.650
133.000	67.650
134.000	67.650
135.000	67.650
136.000	67.640
137.000	67.640
138.000	67.640
139.000	67.640
140.000	67.640
141.000	67.630
142.000	67.630
143.000	67.630
144.000	67.630

145.000	67.630
146.000	67.630
147.000	67.620
148.000	67.620
149.000	67.620
150.000	67.620
151.000	67.620
152.000	67.620
153.000	67.620
154.000	67.610
155.000	67.610
156.000	67.610
157.000	67.610
158.000	67.610
159.000	67.610
160.000	67.610
161.000	67.600
162.000	67.600
163.000	67.600
164.000	67.600
165.000	67.600
166.000	67.600
167.000	67.600
168.000	67.600
169.000	67.600
170.000	67.590
171.000	67.590
172.000	67.590
173.000	67.590
174.000	67.590
175.000	67.590
176.000	67.590
177.000	67.590
178.000	67.580
179.000	67.580
180.000	67.580
181.000	67.580
182.000	67.580
183.000	67.580
184.000	67.580
185.000	67.580
186.000	67.580
187.000	67.580
188.000	67.570
189.000	67.570
190.000	67.570
191.000	67.570
192.000	67.570
193.000	67.570
194.000	67.570
195.000	67.570

196.000	67.570
197.000	67.570
198.000	67.560
199.000	67.560
200.000	67.560
201.000	67.560
202.000	67.560
203.000	67.560
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206.000	67.560
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224.000	67.540
225.000	67.540
226.000	67.540
227.000	67.540
228.000	67.540
229.000	67.540
230.000	67.530
231.000	67.530
232.000	67.530
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238.000	67.520
239.000	67.520
240.000	67.510
241.000	67.510
242.000	67.510
243.000	67.510
244.000	67.510
245.000	67.500
246.000	67.500

247.000	67.500
248.000	67.500
249.000	67.490
250.000	67.490
251.000	67.490
252.000	67.490
253.000	67.490
254.000	67.480
255.000	67.480
256.000	67.480
257.000	67.480
258.000	67.470
259.000	67.470
260.000	67.470
261.000	67.470
262.000	67.460
263.000	67.460
264.000	67.460
265.000	67.460
266.000	67.450
267.000	67.450
268.000	67.450
269.000	67.450
270.000	67.440
271.000	67.440
272.000	67.440
273.000	67.440
274.000	67.430
275.000	67.430
276.000	67.430
277.000	67.430
278.000	67.430
279.000	67.420
280.000	67.420
281.000	67.420
282.000	67.420
283.000	67.410
284.000	67.410
285.000	67.410
286.000	67.410
287.000	67.400
288.000	67.400
289.000	67.400
290.000	67.400
291.000	67.390
292.000	67.390
293.000	67.390
294.000	67.390
295.000	67.380
296.000	67.380
297.000	67.380

298.000	67.380
299.000	67.370
300.000	67.370

Name: NED14-10YR-24HR Node: NED14 Type: Stage

Time(hrs)	Stage(ft)
0.000	67.000
0.250	67.000
0.500	67.000
0.750	67.000
1.000	67.000
1.250	67.000
1.500	67.000
1.750	67.000
2.000	67.000
2.250	67.000
2.500	67.000
2.750	67.000
3.000	67.000
3.250	67.000
3.500	67.000
3.750	67.000
4.000	67.000
4.250	67.000
4.501	67.000
4.750	67.000
5.000	67.000
5.250	67.000
5.500	67.000
5.750	67.000
6.000	67.000
6.251	67.000
6.501	67.000
6.750	67.000
7.000	67.000
7.250	67.000
7.500	67.000
7.750	67.000
8.000	67.000
8.250	67.010
8.501	67.010
8.750	67.010
9.000	67.010
9.250	67.010
9.501	67.010
9.750	67.010
10.001	67.010
10.250	67.020

10.500	67.020
10.750	67.020
11.000	67.030
11.250	67.040
11.500	67.050
11.751	67.060
12.000	67.070
12.251	67.100
12.500	67.130
12.751	67.160
13.001	67.190
13.250	67.230
13.500	67.280
13.750	67.330
14.001	67.380
14.251	67.430
14.500	67.480
14.750	67.520
15.000	67.570
15.250	67.610
15.500	67.650
15.750	67.690
16.000	67.730
16.250	67.770
16.501	67.800
16.750	67.830
17.000	67.850
17.250	67.880
17.500	67.910
17.750	67.930
18.000	67.950
18.250	67.980
18.500	68.000
18.750	68.020
19.000	68.040
19.250	68.050
19.500	68.070
19.750	68.080
20.000	68.100
20.250	68.110
20.500	68.120
20.750	68.130
21.000	68.140
21.250	68.150
21.500	68.150
21.750	68.160
22.000	68.160
22.250	68.170
22.500	68.170
22.750	68.170
23.000	68.180

23.250	68.180
23.500	68.180
23.750	68.180
24.000	68.180
24.250	68.190
24.500	68.190
24.750	68.190
25.000	68.190
25.250	68.190
25.500	68.190
25.750	68.190
26.000	68.190
26.250	68.190
26.501	68.190
26.750	68.180
27.000	68.180
27.250	68.180
27.500	68.180
27.750	68.180
28.000	68.180
28.250	68.180
28.500	68.170
28.750	68.170
29.000	68.170
29.250	68.170
29.500	68.170
29.750	68.160
30.000	68.160
30.250	68.160
30.500	68.160
30.750	68.160
31.000	68.150
31.251	68.150
31.500	68.150
31.750	68.150
32.000	68.150
32.250	68.140
32.500	68.140
32.750	68.140
33.000	68.140
33.250	68.130
33.500	68.130
33.750	68.130
34.000	68.130
34.250	68.130
34.500	68.120
34.750	68.120
35.000	68.120
35.250	68.120
35.500	68.110
35.750	68.110

36.000	68.110
36.250	68.110
36.500	68.110
36.750	68.110
37.000	68.100
37.250	68.100
37.500	68.100
37.750	68.100
38.000	68.100
38.250	68.090
38.500	68.090
38.750	68.090
39.001	68.090
39.250	68.090
39.500	68.090
39.750	68.080
40.000	68.080
40.250	68.080
40.500	68.080
40.750	68.080
41.000	68.080
41.250	68.070
41.500	68.070
41.750	68.070
42.000	68.070
42.250	68.070
42.500	68.070
42.750	68.060
43.000	68.060
43.250	68.060
43.500	68.060
43.750	68.060
44.000	68.060
44.250	68.050
44.500	68.050
44.750	68.050
45.000	68.050
45.250	68.050
45.500	68.050
45.750	68.040
46.001	68.040
46.251	68.040
46.501	68.040
46.751	68.040
47.000	68.040
47.251	68.040
47.500	68.030
47.750	68.030
48.001	68.030
48.251	68.030
48.500	68.030

48.750	68.030
49.000	68.020
49.250	68.020
49.500	68.020
49.750	68.020
50.000	68.020
50.250	68.020
50.500	68.010
50.750	68.010
51.000	68.010
51.251	68.010
51.500	68.010
51.750	68.010
52.000	68.010
52.250	68.000
52.500	68.000
52.750	68.000
53.000	68.000
53.250	68.000
53.500	68.000
53.751	67.990
54.000	67.990
54.250	67.990
54.500	67.990
54.751	67.990
55.000	67.990
55.250	67.980
55.500	67.980
55.750	67.980
56.000	67.980
56.251	67.980
56.500	67.980
56.750	67.980
57.000	67.970
57.250	67.970
57.500	67.970
57.750	67.970
58.000	67.970
58.250	67.970
58.500	67.960
58.750	67.960
59.000	67.960
59.250	67.960
59.500	67.960
59.750	67.960
60.000	67.960
60.250	67.950
60.500	67.950
60.750	67.950
61.001	67.950
61.250	67.950

61.500	67.950
61.751	67.950
62.000	67.940
62.250	67.940
62.500	67.940
62.750	67.940
63.000	67.940
63.250	67.940
63.500	67.940
63.750	67.940
64.001	67.930
64.250	67.930
64.500	67.930
64.751	67.930
65.000	67.930
65.250	67.930
65.500	67.930
65.750	67.930
66.000	67.920
66.250	67.920
66.500	67.920
66.751	67.920
67.000	67.920
67.250	67.920
67.501	67.920
67.750	67.920
68.001	67.910
68.250	67.910
68.500	67.910
68.750	67.910
69.000	67.910
69.250	67.910
69.500	67.910
69.750	67.910
70.000	67.910
70.250	67.900
70.500	67.900
70.750	67.900
71.000	67.900
71.250	67.900
71.501	67.900
71.750	67.900
72.000	67.900
72.250	67.900
72.500	67.900
72.750	67.890
73.000	67.890
73.251	67.890
73.500	67.890
73.751	67.890
74.000	67.890

74.250	67.890
74.500	67.890
74.751	67.890
75.000	67.890
75.250	67.890
75.500	67.880
75.750	67.880
76.000	67.880
76.250	67.880
76.500	67.880
76.751	67.880
77.001	67.880
77.250	67.880
77.500	67.880
77.750	67.880
78.000	67.880
78.250	67.880
78.501	67.870
78.751	67.870
79.000	67.870
79.250	67.870
79.500	67.870
79.750	67.870
80.000	67.870
80.250	67.870
80.500	67.870
80.750	67.870
81.000	67.870
81.250	67.870
81.500	67.870
81.750	67.860
82.000	67.860
82.250	67.860
82.500	67.860
82.750	67.860
83.000	67.860
83.250	67.860
83.500	67.860
83.750	67.860
84.000	67.860
84.250	67.860
84.500	67.860
84.750	67.860
85.000	67.860
85.251	67.850
85.500	67.850
85.750	67.850
86.000	67.850
86.250	67.850
86.500	67.850
86.750	67.850

87.000	67.850
87.250	67.850
87.500	67.850
87.750	67.850
88.000	67.850
88.250	67.850
88.500	67.850
88.751	67.840
89.000	67.840
89.250	67.840
89.501	67.840
89.750	67.840
90.000	67.840
90.250	67.840
90.500	67.840
90.750	67.840
91.000	67.840
91.250	67.840
91.500	67.840
91.751	67.840
92.000	67.840
92.250	67.840
92.501	67.830
92.750	67.830
93.000	67.830
93.250	67.830
93.500	67.830
93.750	67.830
94.000	67.830
94.250	67.830
94.500	67.830
94.751	67.830
95.000	67.830
95.251	67.820
95.500	67.820
95.750	67.820
96.000	67.820
96.251	67.820
96.500	67.820
96.750	67.820
97.000	67.820
97.251	67.810
97.501	67.810
97.750	67.810
98.000	67.810
98.250	67.810
98.500	67.810
98.750	67.810
99.000	67.810
99.250	67.800
99.501	67.800

99.750	67.800
100.000	67.800
100.250	67.800
100.500	67.800
100.750	67.800
101.000	67.800
101.251	67.800
101.500	67.790
101.750	67.790
102.001	67.790
102.250	67.790
102.500	67.790
102.751	67.790
103.000	67.790
103.250	67.790
103.501	67.780
103.751	67.780
104.001	67.780
104.250	67.780
104.500	67.780
104.750	67.780
105.001	67.780
105.250	67.780
105.501	67.780
105.750	67.780
106.000	67.770
106.250	67.770
106.500	67.770
106.750	67.770
107.001	67.770
107.251	67.770
107.500	67.770
107.750	67.770
108.000	67.770
108.251	67.770
108.500	67.760
108.750	67.760
109.000	67.760
109.251	67.760
109.500	67.760
109.750	67.760
110.000	67.760
110.250	67.760
110.500	67.760
110.750	67.760
111.001	67.750
111.251	67.750
111.500	67.750
111.750	67.750
112.001	67.750
112.251	67.750

112.501	67.750
112.750	67.750
113.000	67.750
113.250	67.750
113.500	67.750
113.750	67.750
114.000	67.740
114.250	67.740
114.500	67.740
114.750	67.740
115.000	67.740
115.250	67.740
115.500	67.740
115.750	67.740
116.000	67.740
116.251	67.740
116.500	67.740
116.751	67.740
117.000	67.740
117.250	67.730
117.500	67.730
117.750	67.730
118.000	67.730
118.250	67.730
118.500	67.730
118.750	67.730
119.000	67.730
119.250	67.730
119.500	67.730
119.750	67.730
120.000	67.730
120.250	67.720
120.500	67.720
120.751	67.720
121.000	67.720
121.250	67.720
121.500	67.720
121.750	67.720
122.000	67.720
122.250	67.720
122.500	67.720
122.750	67.710
123.000	67.710
123.250	67.710
123.500	67.710
123.750	67.710
124.000	67.710
124.250	67.710
124.500	67.710
124.750	67.710
125.000	67.710

125.250	67.710
125.500	67.710
125.750	67.700
126.000	67.700
126.251	67.700
126.500	67.700
126.751	67.700
127.000	67.700
127.251	67.700
127.501	67.700
127.751	67.700
128.000	67.700
128.250	67.700
128.500	67.700
128.750	67.690
129.000	67.690
129.250	67.690
129.500	67.690
129.750	67.690
130.000	67.690
130.250	67.690
130.500	67.690
130.750	67.690
131.000	67.690
131.250	67.690
131.500	67.690
131.750	67.690
132.000	67.690
132.250	67.680
132.500	67.680
132.750	67.680
133.000	67.680
133.250	67.680
133.500	67.680
133.750	67.680
134.000	67.680
134.250	67.680
134.500	67.680
134.750	67.680
135.000	67.680
135.250	67.680
135.500	67.680
135.750	67.680
136.000	67.670
136.250	67.670
136.500	67.670
136.750	67.670
137.000	67.670
137.250	67.670
137.500	67.670
137.750	67.670

138.000	67.670
138.251	67.670
138.500	67.670
138.751	67.670
139.000	67.670
139.250	67.670
139.500	67.670
139.750	67.670
140.000	67.670
140.250	67.660
140.500	67.660
140.750	67.660
141.000	67.660
141.250	67.660
141.500	67.660
141.750	67.660
142.000	67.660
142.250	67.660
142.500	67.660
142.750	67.660
143.000	67.660
143.250	67.660
143.500	67.660
143.750	67.660
144.000	67.660
144.250	67.660
144.500	67.660
144.750	67.660
145.000	67.650
145.250	67.650
145.500	67.650
145.750	67.650
146.000	67.650
146.250	67.650
146.500	67.650
146.750	67.650
147.000	67.650
147.250	67.650
147.500	67.650
147.750	67.650
148.000	67.650
148.250	67.650
148.501	67.650
148.750	67.650
149.000	67.650
149.250	67.650
149.500	67.650
149.750	67.650
150.000	67.650

Name: NED14-10YR-72HR Node: NED14 Type: Stage

Time(hrs)	Stage(ft)
0.000	67.000
0.250	67.000
0.500	67.000
0.750	67.000
1.000	67.000
1.250	67.000
1.500	67.000
1.750	67.000
2.000	67.000
2.250	67.000
2.500	67.000
2.750	67.000
3.000	67.000
3.250	67.000
3.500	67.000
3.750	67.000
4.000	67.000
4.250	67.000
4.500	67.000
4.751	67.000
5.000	67.000
5.250	67.000
5.500	67.000
5.751	67.000
6.000	67.000
6.250	67.000
6.500	67.000
6.750	67.000
7.001	67.000
7.250	67.000
7.500	67.000
7.750	67.000
8.000	67.000
8.250	67.000
8.500	67.000
8.750	67.000
9.000	67.000
9.250	67.000
9.500	67.000
9.751	67.000
10.001	67.000
10.251	67.000
10.500	67.000
10.750	67.000
11.000	67.000
11.251	67.000
11.500	67.000

11.750	67.000
12.000	67.000
12.251	67.000
12.500	67.000
12.751	67.000
13.000	67.000
13.250	67.000
13.500	67.000
13.750	67.000
14.000	67.000
14.251	67.000
14.501	67.000
14.751	67.000
15.001	67.000
15.250	67.000
15.501	67.000
15.750	67.000
16.000	67.000
16.250	67.000
16.500	67.000
16.750	67.000
17.000	67.000
17.250	67.000
17.500	67.000
17.750	67.000
18.000	67.000
18.250	67.000
18.500	67.000
18.750	67.000
19.001	67.000
19.250	67.000
19.500	67.000
19.750	67.000
20.000	67.000
20.251	67.000
20.500	67.000
20.750	67.000
21.000	67.000
21.250	67.010
21.500	67.010
21.750	67.010
22.000	67.010
22.250	67.010
22.500	67.010
22.750	67.010
23.001	67.010
23.250	67.010
23.500	67.010
23.750	67.010
24.000	67.010
24.250	67.010

24.501	67.010
24.750	67.010
25.000	67.010
25.250	67.010
25.500	67.010
25.750	67.010
26.000	67.010
26.250	67.010
26.500	67.010
26.750	67.010
27.000	67.010
27.250	67.010
27.500	67.010
27.750	67.010
28.000	67.010
28.250	67.010
28.501	67.010
28.750	67.010
29.000	67.010
29.250	67.010
29.500	67.010
29.750	67.010
30.000	67.010
30.250	67.010
30.500	67.020
30.750	67.020
31.000	67.020
31.250	67.020
31.500	67.020
31.750	67.020
32.000	67.020
32.251	67.020
32.500	67.020
32.750	67.020
33.000	67.030
33.250	67.030
33.500	67.030
33.750	67.030
34.000	67.040
34.250	67.040
34.500	67.040
34.750	67.050
35.001	67.050
35.250	67.050
35.500	67.060
35.750	67.060
36.000	67.070
36.250	67.070
36.500	67.070
36.751	67.080
37.000	67.080

37.250	67.080
37.500	67.090
37.750	67.090
38.000	67.100
38.250	67.100
38.500	67.110
38.750	67.110
39.000	67.120
39.250	67.120
39.500	67.130
39.750	67.130
40.000	67.140
40.250	67.140
40.500	67.150
40.750	67.150
41.000	67.150
41.250	67.160
41.500	67.160
41.750	67.170
42.000	67.170
42.251	67.180
42.501	67.180
42.750	67.180
43.000	67.190
43.250	67.190
43.500	67.200
43.750	67.200
44.000	67.200
44.250	67.210
44.501	67.210
44.750	67.210
45.000	67.220
45.250	67.230
45.500	67.230
45.750	67.240
46.000	67.250
46.250	67.260
46.500	67.260
46.750	67.270
47.001	67.280
47.250	67.280
47.501	67.290
47.750	67.300
48.001	67.300
48.250	67.310
48.500	67.320
48.751	67.330
49.000	67.330
49.250	67.340
49.500	67.350
49.750	67.350

50.001	67.360
50.251	67.370
50.501	67.380
50.751	67.380
51.000	67.390
51.250	67.400
51.500	67.400
51.750	67.410
52.000	67.420
52.250	67.430
52.500	67.430
52.750	67.440
53.000	67.450
53.250	67.460
53.500	67.460
53.751	67.470
54.000	67.480
54.250	67.490
54.500	67.500
54.750	67.510
55.000	67.510
55.250	67.520
55.500	67.530
55.751	67.540
56.000	67.550
56.250	67.560
56.501	67.570
56.750	67.580
57.000	67.590
57.250	67.600
57.501	67.610
57.750	67.630
58.000	67.640
58.251	67.650
58.500	67.660
58.750	67.680
59.000	67.690
59.250	67.710
59.500	67.720
59.750	67.740
60.000	67.760
60.250	67.790
60.501	67.820
60.750	67.860
61.000	67.890
61.251	67.930
61.500	67.960
61.750	67.990
62.000	68.030
62.250	68.060
62.500	68.080

62.750	68.110
63.000	68.130
63.250	68.150
63.500	68.170
63.750	68.190
64.000	68.200
64.250	68.210
64.500	68.220
64.750	68.230
65.000	68.240
65.250	68.250
65.500	68.250
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148.250	67.850
148.500	67.850
148.750	67.850
149.000	67.850
149.250	67.850
149.500	67.850
149.750	67.850
150.000	67.850

Name: NED14-100YR-72H Node: NED14 Type: Stage

Time(hrs)	Stage(ft)
0.000	67.000

0.250	67.000
0.500	67.000
0.750	67.000
1.000	67.000
1.250	67.000
1.500	67.000
1.750	67.000
2.000	67.000
2.250	67.000
2.500	67.000
2.750	67.000
3.000	67.000
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4.750	67.000
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6.750	67.000
7.000	67.000
7.250	67.000
7.500	67.000
7.751	67.000
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8.500	67.000
8.750	67.000
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9.750	67.000
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11.500	67.000
11.750	67.000
12.000	67.000
12.250	67.000
12.500	67.000
12.750	67.000

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13.750	67.010
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14.250	67.010
14.500	67.010
14.750	67.010
15.000	67.010
15.251	67.010
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20.750	67.020
21.000	67.020
21.251	67.020
21.500	67.020
21.750	67.020
22.000	67.020
22.250	67.020
22.500	67.020
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23.750	67.040
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24.250	67.040
24.500	67.050
24.750	67.050
25.000	67.050
25.250	67.060
25.500	67.060

25.750	67.070
26.000	67.070
26.250	67.080
26.500	67.080
26.750	67.090
27.000	67.090
27.250	67.100
27.500	67.100
27.750	67.110
28.000	67.120
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32.000	67.200
32.250	67.210
32.500	67.210
32.750	67.210
33.000	67.220
33.251	67.230
33.500	67.240
33.750	67.250
34.000	67.260
34.250	67.270
34.500	67.280
34.750	67.290
35.001	67.300
35.250	67.310
35.500	67.320
35.750	67.330
36.000	67.340
36.250	67.350
36.500	67.350
36.750	67.360
37.000	67.370
37.251	67.380
37.501	67.390
37.750	67.400
38.000	67.410
38.250	67.420

38.500	67.430
38.750	67.440
39.000	67.450
39.251	67.460
39.500	67.470
39.750	67.470
40.000	67.480
40.250	67.490
40.500	67.500
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41.000	67.520
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42.250	67.570
42.500	67.580
42.750	67.590
43.000	67.600
43.250	67.610
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44.750	67.660
45.001	67.670
45.250	67.680
45.500	67.690
45.750	67.690
46.000	67.700
46.250	67.710
46.500	67.720
46.750	67.730
47.000	67.740
47.250	67.740
47.500	67.750
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50.250	67.820
50.500	67.830
50.750	67.830
51.000	67.840

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51.750	67.860
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52.250	67.870
52.500	67.880
52.750	67.880
53.000	67.890
53.250	67.900
53.500	67.900
53.750	67.910
54.000	67.910
54.250	67.920
54.500	67.930
54.750	67.940
55.000	67.940
55.250	67.950
55.500	67.960
55.751	67.970
56.000	67.970
56.250	67.980
56.500	67.990
56.750	68.000
57.000	68.010
57.250	68.020
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57.750	68.040
58.000	68.050
58.250	68.060
58.500	68.070
58.750	68.080
59.000	68.090
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63.250	68.470
63.500	68.480
63.750	68.490

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68.500	68.460
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70.250	68.430
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70.750	68.420
71.000	68.420
71.250	68.410
71.500	68.410
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74.750	68.340
75.000	68.340
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75.500	68.330
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76.000	68.320
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298.750	67.710
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299.250	67.710
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299.750	67.710
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Name: Manhole O-118-1 Node: Manhole O-118 Type: Stage

Time(hrs)	Stage(ft)
0.000	59.500
9999.000	59.500

Name: MH I-118-10-72 Node: Manhole O-118 Type: Stage

Time(hrs)	Stage(ft)
0.000	58.500
9999.000	58.500

Name: MH-I-1118-10-24 Node: Manhole O-118 Type: Stage

Time(hrs)	Stage(ft)
0.000	57.900
9999.000	57.900

Name: Lake-Ajay-100-7 Node: PONDE1 AJAY TW Type: Stage

Time(hrs)	Stage(ft)
0.000	61.400
9999.000	61.400

Name: Lake-Ajay- 10-7 Node: PONDE1 AJAY TW Type: Stage

Time(hrs)	Stage(ft)
0.000	58.500
9999.000	58.500

SECTION 4

TABLE NUTRIENT 1
Cyrils Dr & Narcoossee Rd Intersection Improvements

PRE-DEVELOPMENT NUTRIENT LOADING CALCULATIONS (Harper Methodology)

BASIN	TOTAL DRAINAGE AREA (Ac.)	EXISTING LAND USE				NCL	ANNUAL RUNOFF (ac-ft/yr)	TP LOAD (kg TP/yr)
		Highway 50% Impervious						
		Open Space (Fair)			IMP.			
	Soil Type=>	A	C	D				
	C Value =>	0.007	0.087	0.128	0.612			
	Phosphorus Event Mean Concentration =>	0.220	0.220	0.220	0.220			
B-1	4.04	1.15		1.04	1.85		5.30	1.44
B-2	10.75						18.38	4.99
104	10.26	3.12		5.09	2.05		8.04	2.18
107	6.56			5.25	1.31		6.14	1.67
108	5.72	0.46		4.12	1.14		5.13	1.39
TOTAL	**37.33**	**4.73**	**0.00**	**15.50**	**6.35**	**0.00**	**42.98**	**11.66**

Notes:

1) Reference: Harper H.H., D.M. Baker (2007) "Evaluation of Current Stormwater Design Criteria within the State of Florida" Final report for Florida Department of Environmental Protection, Contract S0108, June 2007.

2) C Value based on Table 4-24 Summary of Mean Runoff Coefficients for each cluster as a Function of Land Use and Hydrologic Soil Group, Cluster 2. (2007 Harper Re

3) Annual runoff calculation: Area x C value x Annual Rainfall (50 in/yr)

4) Phosphorus Event Mean Concentration based on Table 4-17 (2007 Harper Report)

5) Total phosphorus load: Annual Runoff x 43,560ft^2/ac x 7.48 gal/ft^3 x 3.785 liter/gal x P mg/liter x 1kg/10^6 mg

6) Average TP 0.312 kg TP/yr/acre

7) Total phosphorus load for Basin EB-2 (Narcoossee Rd) is as permitted (Post-Development Basin E1) under SFWMD permit # 49-01006-P, Application # 081117-25.

TABLE NUTRIENT 2
Cyrils Dr & Narcoossee Rd Intersection Improvements

POST-DEVELOPMENT NUTRIENT LOADING CALCULATIONS (Harper Methodology)

BASIN	TOTAL DRAINAGE AREA (Ac.)	POST-DEVELOPMENT LAND USE				NCL	ANNUAL RUNOFF (ac-ft/yr)	TP LOAD (kg TP/yr)
		Highway 75% Impervious			IMP.			
		Open Space (Good)						
	Soil Type=>	A	C	D				
	C Value =>	0.612	0.641	0.654	0.654			
	Phosphorus Event Mean Concentration =>	0.220	0.220	0.220	0.220			
B-1	4.04	1.15		0.64	2.25	0.00	10.81	2.93
B-2	10.75				7.22	2.01	18.38	4.99
104	10.26	0.80		2.55	6.91	0.00	27.82	7.55
107	6.56			1.89	4.67	0.00	17.88	4.85
108	5.72			1.35	4.07	0.00	14.77	4.01
TOTAL	**37.33**	**1.95**	**0.00**	**6.43**	**25.12**	**2.01**	**89.65**	**24.32**

Notes:

1) Reference: Harper H.H., D.M. Baker (2007) "Evaluation of Current Stormwater Design Criteria within the State of Florida" Final report for Florida Department of Environmental Protection, Contract S0108, June 2007.
2) C Value based on Table 4-24 Summary of Mean Runoff Coefficients for each cluster as a Function of Land Use and Hydrologic Soil Group. (2007 Harper Report)
3) Annual runoff calculation: Area x C value x Annual Rainfall (50 in/yr)
4) Phosphorus Event Mean Concentration based on Table 4-17 (2007 Harper Report)
5) Total phosphorus load: Annual Runoff x 43,560ft^2/ac x 7.48 gal/ft^3 x 3.785 liter/gal x P mg/liter x 1kg/10^6 mg
6) Average TP 0.652 kg TP/yr/acre
7) Total phosphorus load for Basin B-2 (Narcoossee Rd) is as permitted (Post-Development Basin E1) under SFWMD permit # 49-01006-P, Application # 081117-25.
8) Basin 104, 107 and 108 have been designed to drain into the Borrow Pit (Bridgewalk project permit #49-103743-P, Application# 200701-3799)

TABLE NUTRIENT 3
Cyrils Dr & Narcoossee Rd Intersection Improvements

WET DETENTION NUTRIENT REMOVAL

Basin ID	Node ID	Total Annual Runoff ac-ft	TP before treatment kg / year	Provided PPV[1] ac-ft	Residence Time Provided[2] days	TP % Removal[3]	TP Load After Treatment[4] kg / year	Mean TP Concentration[5] µg / L	Mean Chlorophyll-a Concentration[6] mg / m^3	Secchi Disk Depth[7] m	Depth to Anoxic Conditions[8] ft
B-1	E-1	10.81	2.93	17.78	222	81%	**1.50**	25.98	12.33	1.52	12
B-2		18.38	4.99								
104	Borrow Pit	27.82	7.55	388.00	500	88%	**0.91**	1.77	0.72	3.61	12
107	Borrow Pit	17.88	4.85				**0.58**	1.16	0.46	3.74	12
108	Borrow Pit	14.77	4.01				**0.48**	0.97	0.38	3.78	12
TOTAL		**89.65**	**24.32**	**405.78**	**722.41**		**3.47**	**29.87**	**13.89**	**12.65**	**48.00**

Notes:

1) See Table Post-5 Pond Stage Storage for detailed pond volume calculations

2) Pond Residence Time = PPV x 365/Annual Runoff. Maximum Single Pond Residence Time of 500 days used for calculations, which equates to 88% TP Removal)

3) Calculated phosphorus removal % = $44.53+6.146*\ln(t_d)+ 0.145*(\ln(t_d)^2)$ calculation per FDEP Statewide Stormwater Draft Water Quality Applicant Handbook (July 2009) page 133 section 17.4 Wet Detention in series

4) TP Load before Treatment x (1 - %Removal)

5) Mean P Concentration TP load after treatmentl x 1 year/ (Annual Runoff + Provided Pond Volume) x 1 ac/43,560 ft2 x 1 ft3/7.48 gal x 1 gal/3.785 liters x 10^9 ug/kg

6) Mean Chlorophyll-a concentration ln(chyl-a) = 1.058 ln (TP) - 0.934

7) Mean Secchi Disk depth [24.2386 + (0.3041)(chyl-a)] / (6.0632 + chyl-a)

8) Depth of anoxic conditions 3.035 x Secchi + 0.02164 x (chyl-a) - 0.004979 x Total P x 3.28 ft/m

9) The provided depth of anoxic conditions in the existing Pond E-1 is 9 days under SFWMD Permit# 49-01006-P, Application# 081117-25.

10) The provided TP % removal in the existing Pond E-1 is 74.2% under SFWMD Permit# 49-01006-P, Application# 081117-25.

11) The provided TP % removal and PPV in the existing "Borrow Pit" is 100% under SFWMD Permit# 200701-3799, Application # 49-103743-P.

TABLE NUTRIENT 4
Cyrils Dr & Narcoossee Rd Intersection Improvements

PRE VS POST NUTRIENT SUMMARY

SUMMARY		
POND E-1	**Phosphorus**	
Pre-Development Load	**6.42**	**(kg/yr)**
Post-Development Load Prior to Treatment	7.92	(kg/yr)
Required Removal Efficiency	19%	
Post-Development Load After Wet Detention	1.50	(kg/yr)
Total Post-Development Load After Treatment	**1.50**	**(kg/yr)**
Post Development Efficiency	81%	

POND 107	Phosphorus	
Pre-Development Load	**1.67**	**(kg/yr)**
Post-Development Load Prior to Treatment	4.85	(kg/yr)
Required Removal Efficiency	66%	
Post-Development Load After Wet Detention	0.58	(kg/yr)
Total Post-Development Load After Treatment	**0.58**	**(kg/yr)**
Post Development Efficiency	88%	

POND 108	Phosphorus	
Pre-Development Load	**1.39**	**(kg/yr)**
Post-Development Load Prior to Treatment	4.01	(kg/yr)
Required Removal Efficiency	65%	
Post-Development Load After Wet Detention	0.48	(kg/yr)
Total Post-Development Load After Treatment	**0.48**	**(kg/yr)**
Post Development Efficiency	88%	

Total Project	Phosphorus	
Pre-Development Load	**11.66**	**(kg/yr)**
Post-Development Load Prior to Treatment	24.32	(kg/yr)
Required Removal Efficiency	52%	
Post-Development Load After Wet Detention	3.47	(kg/yr)
Total Post-Development Load After Treatment	**3.47**	**(kg/yr)**
Post Development Efficiency	86%	

Notes:
1) The provided TP % removal and PPV in the existing "Borrow Pit" is 100% under SFWMD Permit# 200701-3799, Application # 49-103743-P.

SECTION 5

PRE-DEVELOPMENT FLOODPLAIN IMPACTS (EXHIBIT 10)					
Location	**100-yr FEMA Floodplain Elevation (ft)**	**Existing Ground Elevation (ft)**	**Depth of Fill (ft)**	**Area of Impact (ac)**	**Impact Volume (ac-ft)**
IMPACT 1					1.45
IMPACT 2	61.5	58.5	3.0	1.91	5.74
IMPACT 3	61.5	58.4	3.1	4.53	14.05
IMPACT 4	72.1	71.7	0.4	3.79	1.51
TOTAL					**22.76**

NOTE:

1-FEMA FIRM MAP# 12097C0105G

2-IMPACTS 1 AND 2 ARE AS PERMITTED UNDER SFWMD ERP APPLICATION #081117-25

3-IMPACT AREA 2 IS AS PERMITTED UNDER SFWMD APPLICATION # 200B22-3730.

4-100 YEARS FEMA FLOOD PLAIN ELEVATION IS AS PERMITTED IN SFWMD APPLICATION # 1506003-2. FEMA FIRM MAP# 12097C0105G

AREA OF IMPACT 1
1.45 AC-FT

AJAY LAKE

NARCOOSSEE ROAD

LAKE AJAY- SOUTHERN OAKS DEWBERRY DRAINAGE REPORT (AUGUST 2013), SFWMD PERMIT# 48-02392-P. APPLICATION # 150603-2.

FLOODPLAIN ZONE AE 61.5 FT

AREA OF IMPACT 2
5.74 AC-FT

AREA OF IMPACT 3
14.05 AC-FT

FLOODPLAIN IMPACT 4
1.51 AC-FT.

FEMA FLOODPLAIN ZONE A

DEL WEBB BOUNDARY

HENDON LAKE

LEGEND

	FLOODPLAIN IMPACT
	BASE FLOOD ELEVATION
	CYRILS DRIVE WIDENING BOUNDARY
	EXISTING CONTOUR
	WETLAND LINE
	BUFFER

Floodplain Impacts

Cyrils Drive Widening - Narcoossee Road to Absher Road

500" 0 500" 1000"
SCALE IN FEET

Exhibit 10

March 2, 2021
P & B Job No.: 17-042

2602 E. Livingston St.
Orlando, Florida 32803- 407.487.2594
POULOS & BENNETT
www.poulosandbennett.com
Certificate of Authorization No. 28567

Z:\2017\17-042 TAVISTOCK - SUNBRIDGE\CYRILS DR\NARCOSSEE TO ABSHER\CAD\EXH & FIGS\STORMWATER\FIGURE 10 FLOODPLAIN IMPACTS

POST-DEVELOPMENT COMPENSATING STORAGE							
Location	**Compensating Area ID**	**100 Yr. Floodplain Elevation**	**NCL Elevation**	**Depth of Storage (ft.)**	**Compensating Storage Volume (ac-ft.)**	**Floodplain Impact Volume (ac-ft.)**	**Excess(+) /Deficit (-)**
IMPACT 1&2	POND E-1	61.5	57.8	3.72	7.3	7.2	0.2
IMPACT 3	Box Culverts	61.5	60.5	1.00	0.00	14.1	-14.1
IMPACT 4	POND 107 Comp	72.1	71.1	1.00	1.5	1.5	0.00
TOTAL					8.9	22.8	-14.1

NOTE:

1-FEMA FIRM MAP# 12097C0105G

2-COMPENSATION STORAGE POND E-1 IS AS PERMITTED UNDER SFWMD ERP APPLICATION #081117-25

AREA OF COMPENSATING STORAGE POND E-1
7.34 AC -FT

LAKE AJAY- SOUTHERN OAKS DEWBERRY DRAINAGE REPORT (AUGUST 2013), SFWMD PERMIT# 48-02392-P. APPLICATION # 150603-2.

FLOODPLAIN ZONE AE 61.5 FT

AREA OF COMPENSATING STORAGE POND 107 COMP
1.51 AC -FT

AJAY LAKE

NARCOOSSEE ROAD

(10) - BOX CULVERTS

HENDON LAKE

DEL WEBB BOUNDARY

Pond CR-2

Pond CR-3

Pond A

Pond H

LEGEND

- COMPENSATING STORAGE
- BASE FLOOD ELEVATION
- CYRILS DRIVE WIDENING BOUNDARY
- EXISTING CONTOUR
- WETLAND LINE
- BUFFER

Floodplain Compensating Storage

Cyrils Drive Widening - Narcoossee Road to Absher Road

N

500" 0 500" 1000"

SCALE IN FEET

Exhibit 11

March 2, 2021

P & B Job No.: 17-042

2602 E. Livingston St.
Orlando, Florida 32803- 407.487.2594

POULOS & BENNETT

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Z:\2017\17-042 TAVISTOCK – SUNBRIDGE\CYRILS DR\NARCOSSEE TO ABSHER\CAD\EXH & FIGS\STORMWATER\FIGURE 11 FLOODPLAIN IMPACTS

TABLE FLOODPLAIN-1

Cyrils Dr & Narcoossee Rd Intersection Improvements

FLOOPLAIN IMPACTS AND COMPENSATING STORAGE CALCULATIONS

PRE-DEVELOPMENT FLOODPLAIN IMPACTS (EXHIBIT 10)					
Location	**100-yr FEMA Floodplain Elevation (ft)**	**Existing Ground Elevation (ft)**	**Depth of Fill (ft)**	**Area of Impact (ac)**	**Impact Volume (ac-ft)**
IMPACT 1					1.45
IMPACT 2	61.5	58.5	3.0	1.91	5.74
IMPACT 3	61.5	58.4	3.1	4.53	14.05
IMPACT 4	72.1	71.7	0.4	3.79	1.51
TOTAL					**22.76**

POST-DEVELOPMENT COMPENSATING STORAGE (EXHIBIT 11)							
Location	**Compensating Area ID**	**100 Yr. Floodplain Elevation**	**NCL Elevaton**	**Depth of Storage (ft)**	**Compensating Storage Volume (ac-ft)**	**Floodplain Impact Volume (ac-ft)**	**Excess(+)/Deficit (-)**
IMPACT 1&2	E-1	61.5	57.8	3.7	7.3	7.2	0.1
IMPACT 3	Box Culverts	61.5			0.0	14.1	-14.1
IMPACT 4	107 Comp	72.1	71.1	1.0	1.5	1.5	0.0
TOTAL					8.8	8.7	-14.1

Notes:

1) Vertical Datum NAVD 88

2) Topographic survey provided by Atlantic Surveying, LCC

3) Pre-development area of impact 1 is as permitted under SFWMD, Appendix 8 of the drainage report of permit # 49-01006-P, Application # 081117-25.

4) Pre-development area of impact 2 is as permitted under SFWMD permit #49-103360-P, Application # 200622-3730.

5) 100-year FEMA Floodplain elevation is as permitted in SFWMD # 48-02392-P, Application# 150603-2, FEMA FIRM MAP# 12097C0105G

5) 100-year FEMA Floodplain elevation is as permitted in SFWMD # 48-02392-P, Application# 150603-2, FEMA FIRM MAP# 12097C0105G

APPENDIX 1

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10Y-24H	POND 102	BASE	0.00	60.5	64.5	35284	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	0.26	60.5	64.5	35284	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	0.50	60.5	64.5	35284	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	0.77	60.5	64.5	35284	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	1.02	60.5	64.5	35284	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	1.27	60.5	64.5	35284	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	1.52	60.5	64.5	35284	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	1.77	60.5	64.5	35284	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	2.02	60.5	64.5	35284	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	2.27	60.5	64.5	35284	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	2.52	60.5	64.5	35284	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	2.77	60.5	64.5	35284	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	3.02	60.5	64.5	35284	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	3.27	60.5	64.5	35284	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	3.52	60.5	64.5	35284	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	3.77	60.5	64.5	35284	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	4.02	60.5	64.5	35285	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	4.27	60.5	64.5	35289	0.0	0.0	0.0	0.0
10Y-24H	POND 102	BASE	4.52	60.5	64.5	35295	0.1	0.0	0.0	0.0
10Y-24H	POND 102	BASE	4.77	60.5	64.5	35303	0.1	0.0	0.0	0.0
10Y-24H	POND 102	BASE	5.02	60.5	64.5	35313	0.1	0.0	0.0	0.0
10Y-24H	POND 102	BASE	5.27	60.5	64.5	35327	0.1	0.0	0.0	0.0
10Y-24H	POND 102	BASE	5.52	60.5	64.5	35343	0.2	0.0	0.0	0.0
10Y-24H	POND 102	BASE	5.77	60.5	64.5	35361	0.2	0.0	0.0	0.0
10Y-24H	POND 102	BASE	6.02	60.5	64.5	35382	0.2	0.0	0.0	0.0
10Y-24H	POND 102	BASE	6.27	60.5	64.5	35406	0.2	0.0	0.0	0.0
10Y-24H	POND 102	BASE	6.52	60.5	64.5	35433	0.3	0.0	0.0	0.0
10Y-24H	POND 102	BASE	6.77	60.5	64.5	35464	0.3	0.0	0.0	0.0
10Y-24H	POND 102	BASE	7.02	60.6	64.5	35498	0.3	0.0	0.0	0.0
10Y-24H	POND 102	BASE	7.27	60.6	64.5	35535	0.4	0.0	0.0	0.0
10Y-24H	POND 102	BASE	7.52	60.6	64.5	35577	0.4	0.0	0.1	0.0
10Y-24H	POND 102	BASE	7.77	60.6	64.5	35622	0.4	0.0	0.1	0.0
10Y-24H	POND 102	BASE	8.02	60.6	64.5	35669	0.5	0.0	0.1	0.0
10Y-24H	POND 102	BASE	8.27	60.6	64.5	35721	0.5	0.0	0.1	0.0
10Y-24H	POND 102	BASE	8.52	60.6	64.5	35779	0.6	0.0	0.1	0.0
10Y-24H	POND 102	BASE	8.77	60.6	64.5	35843	0.7	0.0	0.1	0.0
10Y-24H	POND 102	BASE	9.02	60.6	64.5	35913	0.7	0.0	0.1	0.0
10Y-24H	POND 102	BASE	9.27	60.7	64.5	35990	0.8	0.0	0.1	0.0
10Y-24H	POND 102	BASE	9.52	60.7	64.5	36072	0.9	0.1	0.2	0.0
10Y-24H	POND 102	BASE	9.77	60.7	64.5	36161	1.0	0.1	0.2	0.0
10Y-24H	POND 102	BASE	10.02	60.7	64.5	36259	1.1	0.1	0.2	0.0
10Y-24H	POND 102	BASE	10.27	60.8	64.5	36370	1.2	0.1	0.2	0.0
10Y-24H	POND 102	BASE	10.52	60.8	64.5	36498	1.4	0.1	0.2	0.0
10Y-24H	POND 102	BASE	10.77	60.8	64.5	36643	1.7	0.1	0.3	0.0
10Y-24H	POND 102	BASE	11.02	60.9	64.5	36814	1.9	0.1	0.3	0.0
10Y-24H	POND 102	BASE	11.27	60.9	64.5	37002	2.1	0.1	0.4	0.0
10Y-24H	POND 102	BASE	11.52	61.0	64.5	37248	3.3	0.1	0.4	0.0
10Y-24H	POND 102	BASE	11.75	61.1	64.5	37776	8.8	0.2	0.5	0.0

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10Y-24H	POND 102	BASE	12.00	61.4	64.5	39051	18.1	0.2	0.8	0.0
10Y-24H	POND 102	BASE	12.09	61.5	64.5	39655	19.6	0.2	0.9	0.0
10Y-24H	POND 102	BASE	12.17	61.7	64.5	40235	18.6	0.2	1.1	0.0
10Y-24H	POND 102	BASE	12.25	61.8	64.5	40785	17.0	0.3	1.2	0.0
10Y-24H	POND 102	BASE	12.33	61.9	64.5	41282	15.6	0.3	1.3	0.0
10Y-24H	POND 102	BASE	12.42	62.0	64.5	41722	13.7	0.3	1.4	0.0
10Y-24H	POND 102	BASE	12.50	62.1	64.5	42102	12.0	0.3	1.5	0.0
10Y-24H	POND 102	BASE	12.75	62.3	64.5	42953	8.2	0.5	1.7	0.0
10Y-24H	POND 102	BASE	13.01	62.5	64.5	43510	5.5	0.6	1.8	0.1
10Y-24H	POND 102	BASE	13.26	62.5	64.5	43841	3.7	0.7	1.9	0.1
10Y-24H	POND 102	BASE	13.51	62.6	64.5	44043	2.8	0.8	2.0	0.1
10Y-24H	POND 102	BASE	13.77	62.6	64.5	44192	2.2	0.8	2.1	0.1
10Y-24H	POND 102	BASE	14.02	62.6	64.5	44298	2.0	0.9	2.1	0.1
10Y-24H	POND 102	BASE	14.27	62.7	64.5	44384	1.8	0.9	2.1	0.1
10Y-24H	POND 102	BASE	14.52	62.7	64.5	44453	1.7	0.9	2.2	0.2
10Y-24H	POND 102	BASE	14.77	62.7	64.5	44509	1.5	1.0	2.2	0.2
10Y-24H	POND 102	BASE	15.02	62.7	64.5	44552	1.4	1.0	2.2	0.2
10Y-24H	POND 102	BASE	15.27	62.7	64.5	44587	1.3	1.0	2.3	0.2
10Y-24H	POND 102	BASE	15.52	62.7	64.5	44615	1.3	1.0	2.3	0.2
10Y-24H	POND 102	BASE	15.77	62.7	64.5	44637	1.2	1.0	2.3	0.3
10Y-24H	POND 102	BASE	16.02	62.7	64.5	44652	1.1	1.0	2.3	0.3
10Y-24H	POND 102	BASE	16.27	62.7	64.5	44661	1.1	1.0	2.4	0.3
10Y-24H	POND 102	BASE	16.52	62.7	64.5	44665	1.0	1.0	2.4	0.3
10Y-24H	POND 102	BASE	16.77	62.7	64.5	44666	1.0	1.0	2.4	0.3
10Y-24H	POND 102	BASE	17.02	62.7	64.5	44663	1.0	1.0	2.4	0.4
10Y-24H	POND 102	BASE	17.27	62.7	64.5	44658	0.9	1.0	2.5	0.4
10Y-24H	POND 102	BASE	17.52	62.7	64.5	44653	0.9	1.0	2.5	0.4
10Y-24H	POND 102	BASE	17.77	62.7	64.5	44644	0.9	1.0	2.5	0.4
10Y-24H	POND 102	BASE	18.02	62.7	64.5	44630	0.8	1.0	2.5	0.4
10Y-24H	POND 102	BASE	18.27	62.7	64.5	44614	0.8	1.0	2.5	0.5
10Y-24H	POND 102	BASE	18.52	62.7	64.5	44601	0.8	1.0	2.5	0.5
10Y-24H	POND 102	BASE	18.77	62.7	64.5	44585	0.8	1.0	2.6	0.5
10Y-24H	POND 102	BASE	19.02	62.7	64.5	44565	0.7	1.0	2.6	0.5
10Y-24H	POND 102	BASE	19.27	62.7	64.5	44544	0.7	1.0	2.6	0.5
10Y-24H	POND 102	BASE	19.52	62.7	64.5	44526	0.7	1.0	2.6	0.6
10Y-24H	POND 102	BASE	19.77	62.7	64.5	44507	0.7	1.0	2.6	0.6
10Y-24H	POND 102	BASE	20.02	62.7	64.5	44486	0.7	0.9	2.6	0.6
10Y-24H	POND 102	BASE	20.27	62.7	64.5	44464	0.7	0.9	2.6	0.6
10Y-24H	POND 102	BASE	20.52	62.7	64.5	44438	0.6	0.9	2.7	0.6
10Y-24H	POND 102	BASE	20.77	62.7	64.5	44412	0.6	0.9	2.7	0.7
10Y-24H	POND 102	BASE	21.02	62.7	64.5	44385	0.6	0.9	2.7	0.7
10Y-24H	POND 102	BASE	21.27	62.7	64.5	44358	0.6	0.9	2.7	0.7
10Y-24H	POND 102	BASE	21.52	62.6	64.5	44332	0.6	0.9	2.7	0.7
10Y-24H	POND 102	BASE	21.77	62.6	64.5	44307	0.6	0.9	2.7	0.7
10Y-24H	POND 102	BASE	22.02	62.6	64.5	44282	0.6	0.9	2.7	0.8
10Y-24H	POND 102	BASE	22.27	62.6	64.5	44258	0.6	0.9	2.7	0.8
10Y-24H	POND 102	BASE	22.52	62.6	64.5	44235	0.6	0.9	2.8	0.8
10Y-24H	POND 102	BASE	22.77	62.6	64.5	44211	0.6	0.9	2.8	0.8

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10Y-24H	POND 102	BASE	23.02	62.6	64.5	44185	0.5	0.8	2.8	0.8
10Y-24H	POND 102	BASE	23.27	62.6	64.5	44158	0.5	0.8	2.8	0.8
10Y-24H	POND 102	BASE	23.52	62.6	64.5	44130	0.5	0.8	2.8	0.9
10Y-24H	POND 102	BASE	23.77	62.6	64.5	44102	0.5	0.8	2.8	0.9
10Y-24H	POND 102	BASE	24.01	62.6	64.5	44074	0.4	0.8	2.8	0.9
10Y-24H	POND E-1	BASE	0.00	57.8	62.0	87556	0.0	-0.4	0.0	0.0
10Y-24H	POND E-1	BASE	0.26	57.8	62.0	87585	0.0	-0.4	0.0	-0.0
10Y-24H	POND E-1	BASE	0.50	57.8	62.0	87613	0.0	-0.4	0.0	-0.0
10Y-24H	POND E-1	BASE	0.77	57.8	62.0	87643	0.0	-0.4	0.0	-0.0
10Y-24H	POND E-1	BASE	1.02	57.8	62.0	87672	0.0	-0.4	0.0	-0.0
10Y-24H	POND E-1	BASE	1.27	57.8	62.0	87700	0.0	-0.4	0.0	-0.0
10Y-24H	POND E-1	BASE	1.52	57.8	62.0	87729	0.0	-0.4	0.0	-0.1
10Y-24H	POND E-1	BASE	1.77	57.8	62.0	87757	0.0	-0.4	0.0	-0.1
10Y-24H	POND E-1	BASE	2.02	57.8	62.0	87786	0.0	-0.4	0.0	-0.1
10Y-24H	POND E-1	BASE	2.27	57.8	62.0	87816	0.0	-0.4	0.0	-0.1
10Y-24H	POND E-1	BASE	2.52	57.8	62.0	87848	0.1	-0.4	0.0	-0.1
10Y-24H	POND E-1	BASE	2.77	57.8	62.0	87882	0.1	-0.4	0.0	-0.1
10Y-24H	POND E-1	BASE	3.02	57.8	62.0	87920	0.1	-0.4	0.0	-0.1
10Y-24H	POND E-1	BASE	3.27	57.8	62.0	87960	0.2	-0.4	0.0	-0.1
10Y-24H	POND E-1	BASE	3.52	57.9	62.0	88004	0.2	-0.4	0.0	-0.1
10Y-24H	POND E-1	BASE	3.77	57.9	62.0	88051	0.3	-0.4	0.0	-0.1
10Y-24H	POND E-1	BASE	4.02	57.9	62.0	88101	0.3	-0.4	0.0	-0.1
10Y-24H	POND E-1	BASE	4.27	57.9	62.0	88154	0.4	-0.4	0.0	-0.1
10Y-24H	POND E-1	BASE	4.52	57.9	62.0	88211	0.4	-0.4	0.0	-0.1
10Y-24H	POND E-1	BASE	4.77	57.9	62.0	88271	0.5	-0.4	0.1	-0.2
10Y-24H	POND E-1	BASE	5.02	57.9	62.0	88334	0.5	-0.4	0.1	-0.2
10Y-24H	POND E-1	BASE	5.27	57.9	62.0	88401	0.6	-0.4	0.1	-0.2
10Y-24H	POND E-1	BASE	5.52	57.9	62.0	88470	0.6	-0.4	0.1	-0.2
10Y-24H	POND E-1	BASE	5.77	57.9	62.0	88542	0.6	-0.4	0.1	-0.2
10Y-24H	POND E-1	BASE	6.02	57.9	62.0	88616	0.7	-0.4	0.1	-0.2
10Y-24H	POND E-1	BASE	6.27	58.0	62.0	88694	0.7	-0.4	0.1	-0.2
10Y-24H	POND E-1	BASE	6.52	58.0	62.0	88776	0.8	-0.4	0.1	-0.2
10Y-24H	POND E-1	BASE	6.77	58.0	62.0	88862	0.9	-0.4	0.2	-0.2
10Y-24H	POND E-1	BASE	7.02	58.0	62.0	88952	0.9	-0.4	0.2	-0.2
10Y-24H	POND E-1	BASE	7.27	58.0	62.0	89046	1.0	-0.4	0.2	-0.2
10Y-24H	POND E-1	BASE	7.52	58.0	62.0	89146	1.1	-0.4	0.2	-0.2
10Y-24H	POND E-1	BASE	7.77	58.0	62.0	89250	1.1	-0.4	0.2	-0.3
10Y-24H	POND E-1	BASE	8.02	58.0	62.0	89358	1.2	-0.4	0.3	-0.3
10Y-24H	POND E-1	BASE	8.27	58.1	62.0	89470	1.3	-0.4	0.3	-0.3
10Y-24H	POND E-1	BASE	8.52	58.1	62.0	89590	1.4	-0.4	0.3	-0.3
10Y-24H	POND E-1	BASE	8.77	58.1	62.0	89717	1.5	-0.3	0.3	-0.3
10Y-24H	POND E-1	BASE	9.02	58.1	62.0	89854	1.7	-0.3	0.4	-0.3
10Y-24H	POND E-1	BASE	9.27	58.1	62.0	89998	1.8	-0.3	0.4	-0.3
10Y-24H	POND E-1	BASE	9.52	58.2	62.0	90150	1.9	-0.3	0.5	-0.3
10Y-24H	POND E-1	BASE	9.77	58.2	62.0	90311	2.1	-0.3	0.5	-0.3
10Y-24H	POND E-1	BASE	10.02	58.2	62.0	90484	2.3	-0.3	0.5	-0.3
10Y-24H	POND E-1	BASE	10.27	58.2	62.0	90672	2.6	-0.3	0.6	-0.3

Simulation	Node	Group	Time	Stage	Warning Stage	Surface Area	Total Inflow	Total Outflow	Total Vol In	Total Vol Out
			hrs	ft	ft	ft2	cfs	cfs	af	af
10Y-24H	POND E-1	BASE	10.52	58.3	62.0	90881	2.9	-0.3	0.7	-0.3
10Y-24H	POND E-1	BASE	10.77	58.3	62.0	91112	3.4	-0.2	0.7	-0.3
10Y-24H	POND E-1	BASE	11.02	58.3	62.0	91375	3.8	-0.2	0.8	-0.3
10Y-24H	POND E-1	BASE	11.27	58.4	62.0	91661	4.2	-0.2	0.9	-0.3
10Y-24H	POND E-1	BASE	11.52	58.4	62.0	92005	6.1	-0.1	1.0	-0.3
10Y-24H	POND E-1	BASE	11.75	58.5	62.0	92613	14.4	0.1	1.2	-0.3
10Y-24H	POND E-1	BASE	12.00	58.7	62.0	94047	30.1	0.3	1.6	-0.3
10Y-24H	POND E-1	BASE	12.09	58.8	62.0	94754	34.1	0.4	1.9	-0.3
10Y-24H	POND E-1	BASE	12.17	58.9	62.0	95479	34.7	0.4	2.1	-0.3
10Y-24H	POND E-1	BASE	12.25	59.0	62.0	96212	33.2	0.4	2.3	-0.3
10Y-24H	POND E-1	BASE	12.33	59.1	62.0	96898	31.1	0.6	2.5	-0.3
10Y-24H	POND E-1	BASE	12.42	59.2	62.0	97520	28.4	1.2	2.8	-0.3
10Y-24H	POND E-1	BASE	12.50	59.3	62.0	98063	25.5	2.0	2.9	-0.3
10Y-24H	POND E-1	BASE	12.75	59.5	62.0	99251	18.6	4.1	3.4	-0.3
10Y-24H	POND E-1	BASE	13.01	59.6	62.0	99971	13.8	5.5	3.7	-0.1
10Y-24H	POND E-1	BASE	13.26	59.6	62.0	100365	10.5	6.0	4.0	-0.0
10Y-24H	POND E-1	BASE	13.51	59.7	62.0	100553	8.0	6.2	4.2	0.1
10Y-24H	POND E-1	BASE	13.77	59.7	62.0	100603	6.1	6.3	4.3	0.2
10Y-24H	POND E-1	BASE	14.02	59.7	62.0	100548	4.8	6.2	4.4	0.4
10Y-24H	POND E-1	BASE	14.27	59.6	62.0	100437	4.0	6.1	4.5	0.5
10Y-24H	POND E-1	BASE	14.52	59.6	62.0	100299	3.6	5.9	4.6	0.6
10Y-24H	POND E-1	BASE	14.77	59.6	62.0	100150	3.3	5.7	4.7	0.7
10Y-24H	POND E-1	BASE	15.02	59.6	62.0	99993	3.0	5.5	4.7	0.8
10Y-24H	POND E-1	BASE	15.27	59.6	62.0	99839	2.8	5.2	4.8	1.0
10Y-24H	POND E-1	BASE	15.52	59.5	62.0	99692	2.7	5.0	4.9	1.1
10Y-24H	POND E-1	BASE	15.77	59.5	62.0	99555	2.5	4.7	4.9	1.2
10Y-24H	POND E-1	BASE	16.02	59.5	62.0	99423	2.4	4.4	5.0	1.3
10Y-24H	POND E-1	BASE	16.27	59.5	62.0	99300	2.3	4.2	5.0	1.3
10Y-24H	POND E-1	BASE	16.52	59.5	62.0	99184	2.2	3.9	5.1	1.4
10Y-24H	POND E-1	BASE	16.77	59.4	62.0	99075	2.1	3.7	5.1	1.5
10Y-24H	POND E-1	BASE	17.02	59.4	62.0	98973	2.0	3.5	5.1	1.6
10Y-24H	POND E-1	BASE	17.27	59.4	62.0	98878	1.9	3.4	5.2	1.7
10Y-24H	POND E-1	BASE	17.52	59.4	62.0	98792	1.9	3.2	5.2	1.7
10Y-24H	POND E-1	BASE	17.77	59.4	62.0	98711	1.8	3.1	5.3	1.8
10Y-24H	POND E-1	BASE	18.02	59.4	62.0	98630	1.7	2.9	5.3	1.8
10Y-24H	POND E-1	BASE	18.27	59.4	62.0	98555	1.7	2.8	5.3	1.9
10Y-24H	POND E-1	BASE	18.52	59.4	62.0	98488	1.7	2.7	5.4	2.0
10Y-24H	POND E-1	BASE	18.77	59.4	62.0	98426	1.6	2.6	5.4	2.0
10Y-24H	POND E-1	BASE	19.02	59.3	62.0	98363	1.5	2.5	5.4	2.1
10Y-24H	POND E-1	BASE	19.27	59.3	62.0	98304	1.5	2.4	5.5	2.1
10Y-24H	POND E-1	BASE	19.52	59.3	62.0	98251	1.5	2.3	5.5	2.2
10Y-24H	POND E-1	BASE	19.77	59.3	62.0	98203	1.5	2.2	5.5	2.2
10Y-24H	POND E-1	BASE	20.02	59.3	62.0	98157	1.4	2.1	5.6	2.3
10Y-24H	POND E-1	BASE	20.27	59.3	62.0	98111	1.3	2.1	5.6	2.3
10Y-24H	POND E-1	BASE	20.52	59.3	62.0	98065	1.3	2.0	5.6	2.3
10Y-24H	POND E-1	BASE	20.77	59.3	62.0	98020	1.2	1.9	5.6	2.4
10Y-24H	POND E-1	BASE	21.02	59.3	62.0	97978	1.2	1.9	5.7	2.4
10Y-24H	POND E-1	BASE	21.27	59.3	62.0	97938	1.2	1.8	5.7	2.5