

# Applicant's Information

- Supplemental Pattern Book (Revised)
- Concept Plan (Site Plan for Hotel Tract)
- Master Concept Plan
- Coconut Point North Village Surface Water Management Analysis – Basin 5A



# Coconut Point

ESTERO, FLORIDA

DESIGN REVIEW GUIDELINES

RECEIVED  
APR 09 2108

VILLAGE OF ESTERO

# Hilton Garden Inn at Coconut Point

Supplemental Pattern Book  
Tract 1D-3

PLOTTED DATE:



CONCEPT PLAN  
SCALE: 1" = 30'



PROJECT NORTH



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NO.	DATE	DESCRIPTION	DESIGNED BY	DRAWN BY	APPROVED BY
1	10-10-17	CONCEPT PLAN			

ROOM COUNT:
ST FLOOR: 3 KETS
TYPICAL FLOOR: 4 + 284 + 32 KETS
TOTAL: 3,523
PARKING:
PARKING SPACES: 12

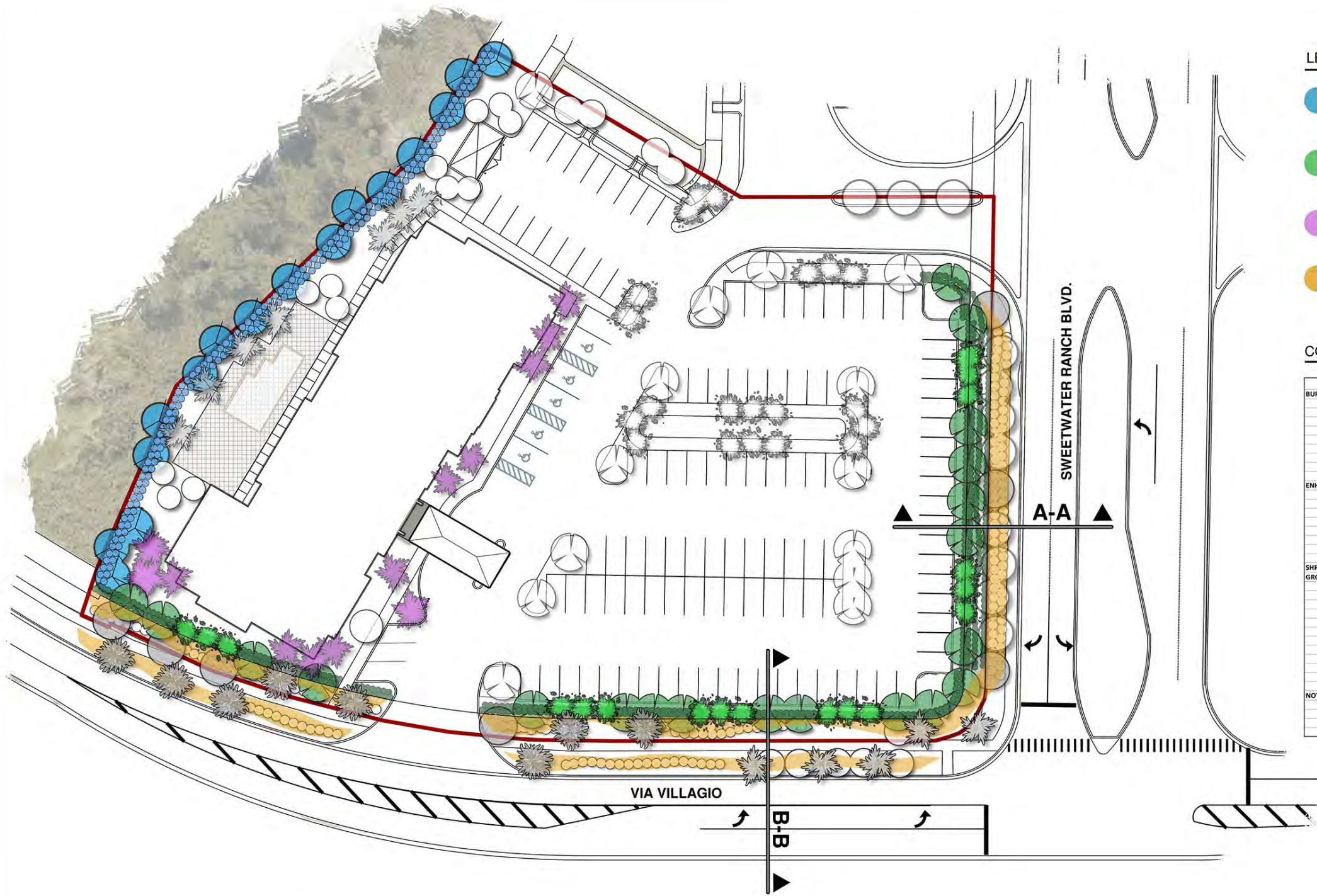
COCONUT POINT  
TRACT ID-3  
PROJECT NUMBER: 1703  
SCALE: AS SHOWN  
CONCEPT PLAN

AS.1

# Conceptual Site Plan

## Tract 1D-3





**LEGEND**

- ADDED BUFFER PLANTINGS NOT CURRENTLY REQUIRED (5 - TREES/PALMS WITH 66 - SHRUBS PER 100' LF)
- STANDARD TYPE 'D' BUFFER PLANTING QUANTITIES IN ADDITION TO EXISTING STREETSCAPE
- BUILDING PERIMETER PALMS PLANTED AT VARYING HEIGHTS (16' - 18' HT. 20'-22' OVERAL)
- ENHANCED AND RE-INSTALL SHRUBS AND GROUND COVERS WITHIN R/W (COCONUT POINT STREETScape)

**CONCEPTUAL PLANT LIST**

	Common Name	Botanical Name	Native	Cold Tolerant
<b>BUFFER TREES</b>				
	(Min. Spec: 12'-14' H x 4'-5" S 3.5" Cal. 45G)			
	Black Olive	Bucida buceras	Yes	Yes
	Slash Pine	Pinus ellottii 'Densa'	Yes	Yes
	Satinleaf	Chrysophyllum oliviforme	Yes	Yes
	Live Oak	Quercus virginiana	Yes	Yes
	Bald Cypress	Taxodium distichum	Yes	Yes
	Other Acceptable Native Or Naturalized Species			
<b>ENHANCED PALMS</b>				
	(Min. Spec: 16'-18' CT, 20'-22' OA)			
	Royal Palm	Roystonea Regia	Yes	Yes
	Bismarck Palm	Bismarckia nobilis	No	Yes
	Silver Date Palm	Phoenix Sylvestris	No	Yes
	Winnin Palm	Vecthia Winnin	No	Yes
	Other Acceptable Native Or Naturalized Species			
<b>SHRUBS / GROUNDCOVERS</b>				
	(Minimum Specs Per Code)			
	Walters Viburnum	Viburnum obovatum	Yes	Yes
	Green Island Ficus	Ficus microcarpa 'Green Island'	No	Yes
	Muhly Grass	Muhlenbergia capillaris	Yes	Yes
	Sand Cord Grass	Spartina bakeri	Yes	Yes
	Indian Hawthorn	Rhaphiolepis 'Majestic Beauty'	No	Yes
	Silver Palmetto	Serenoa repens 'Silver Form'	Yes	Yes
	Wart Fern	Microsorium scolopendrium	No	Yes
	Cocoplum	Chrysobalanus icaco	Yes	Yes
	Other Acceptable Native Or Naturalized Species			
<b>NOTES:</b>				
	MINIMUM TREES / PALMS 75% NATIVE			
	MINIMUM SHRUBS / GROUND COVE 50% NATIVE			
	ALL REQUIRED QUANTITIES TO EXCEED CODE MINIMUM			

**Hilton Garden Inn at Coconut Point**

EXHIBIT A.1

**CONCEPTUAL LANDSCAPE ENHANCED PLAN**

DATE: 11-13-17



SCALE: NTS

PREPARED BY



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239.334.9144 | www.LAIFLA.com | mail@LAIFLA.com

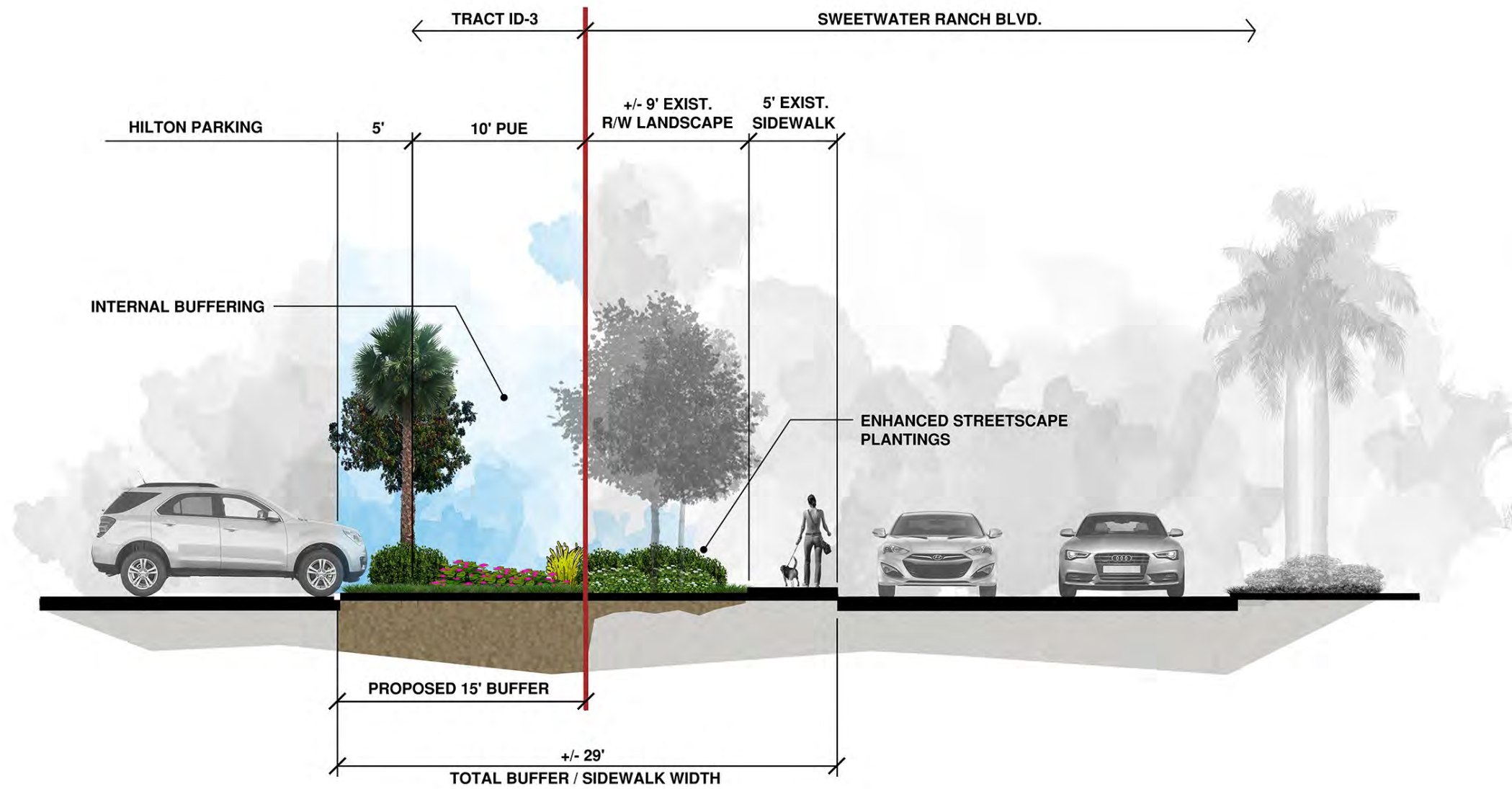
3D Animation | Virtual Design | Digital Imagery | Land Planning & Graphics | Landscape Architecture

PREPARED FOR



Enhanced Landscaping





**Hilton Garden Inn at Coconut Point**

**EXHIBIT A.2**

**CROSS SECTION 'A-A' - SWEETWATER RANCH BLVD.**

DATE: 11-13-17

PREPARED BY



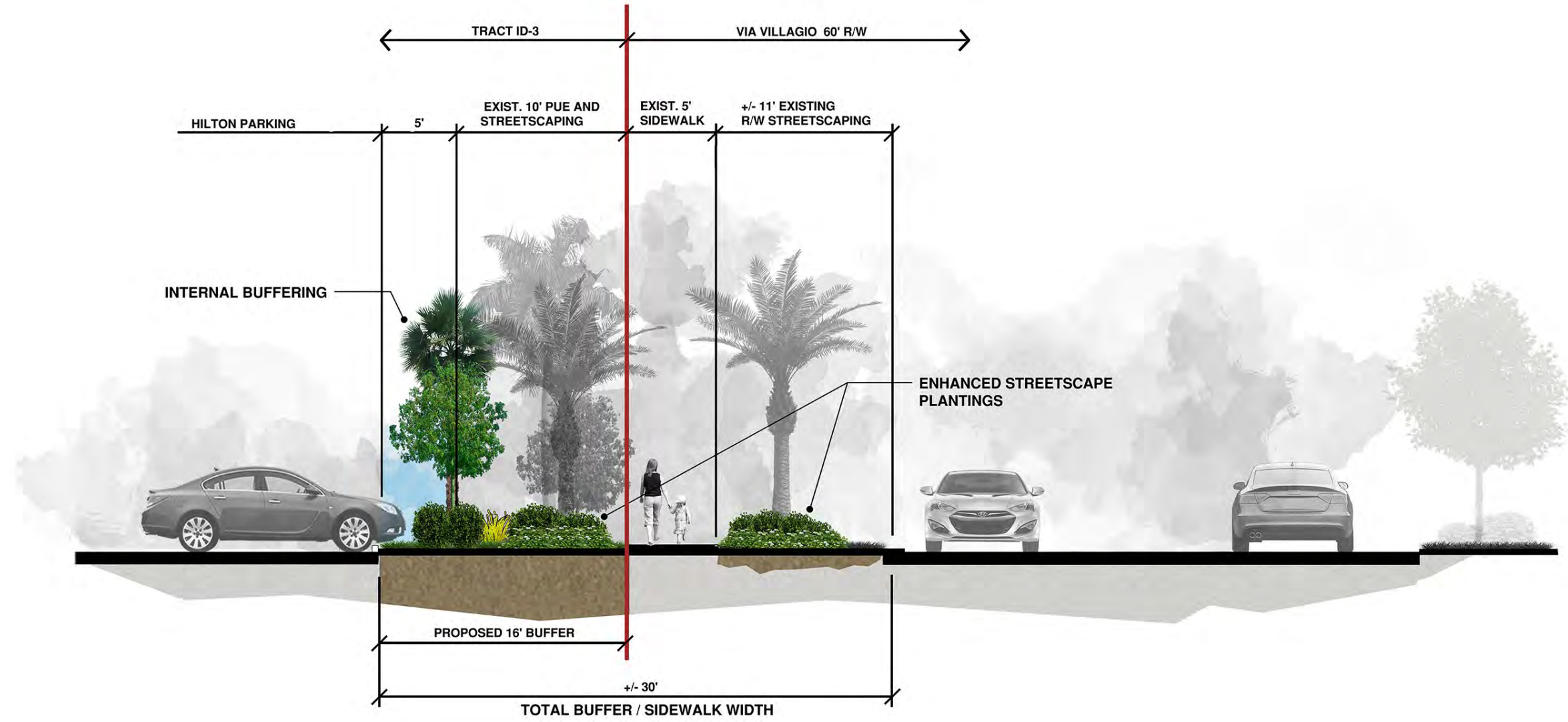
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Hilton Garden Inn at Coconut Point

EXHIBIT A.3

DATE: 11-13-17

CROSS SECTION 'B-B' - VIA VILLAGIO

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# Building Elevation

## Color Scheme - Option 1



# Building Elevation

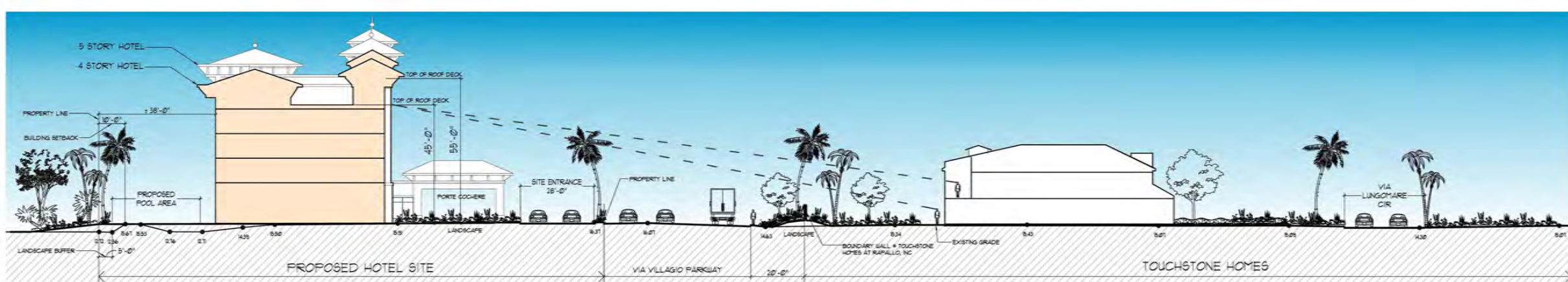
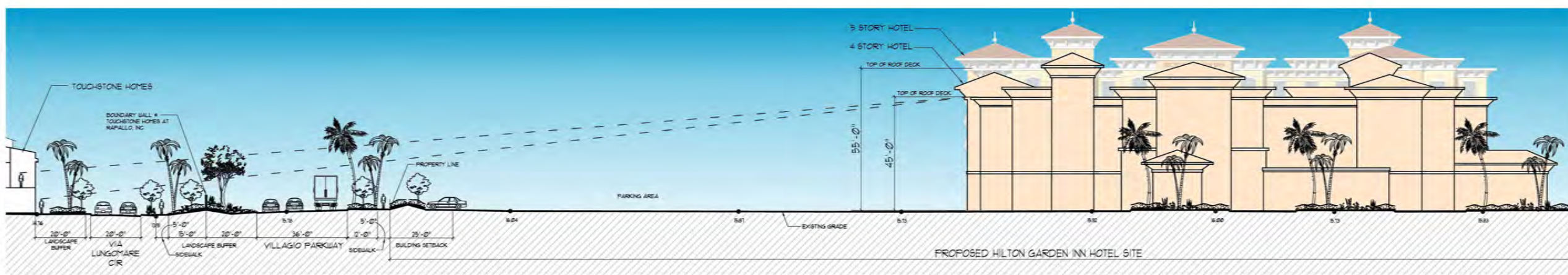
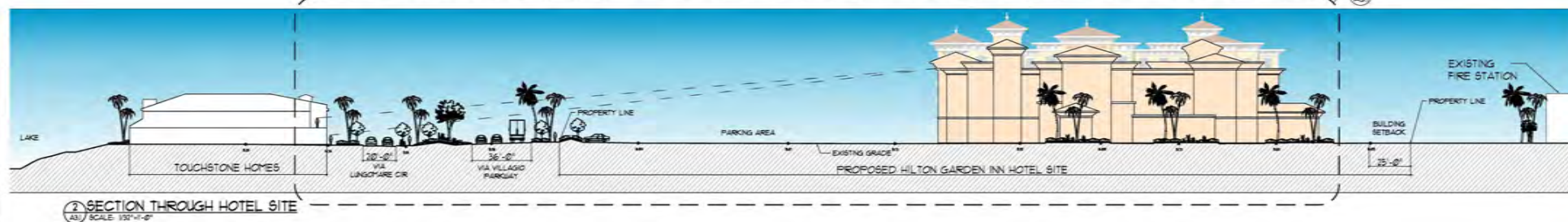
## Color Scheme - Option 2







# Line of Sight



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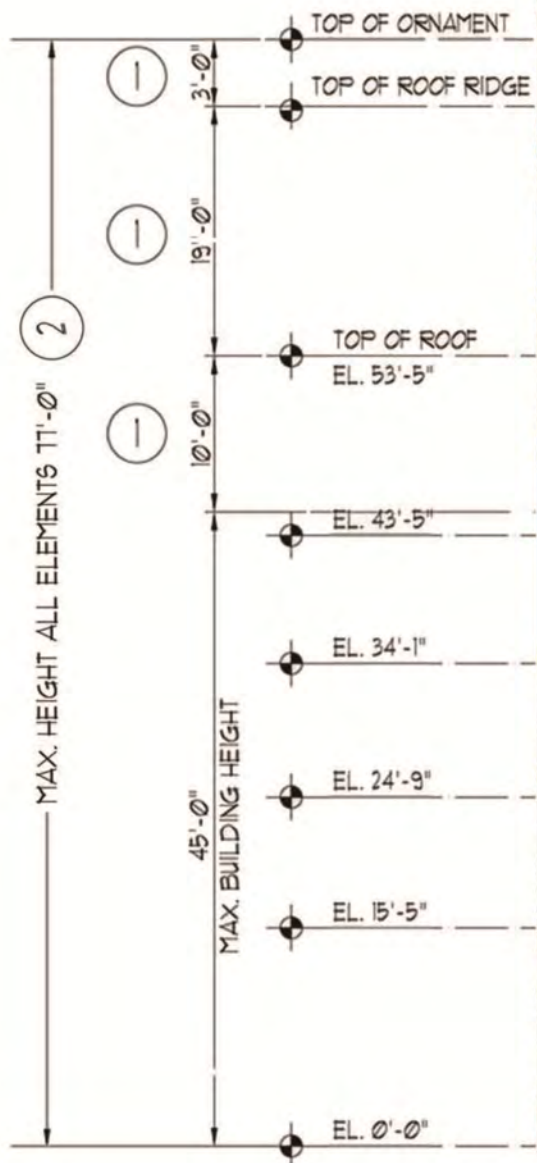


COCONUT POINT  
TRACT ID-3

SITE VIEW DIAGRAM  
DATE: 06-17-2011 SCALE: AS SHOWN

A3.1





- ① DEVIATION 1 SEEKS RELIEF FROM THE LDC SECTION 33-229, *MAXIMUM HEIGHT*, WHICH LIMITS MAXIMUM BUILDING HEIGHT OUTSIDE OF THE INTERSTATE HIGHWAY INTERCHANGE AREAS TO A MAXIMUM OF THREE STORIES OR 45 FEET, TO ALLOW A MAXIMUM BUILDING HEIGHT OF 55 FEET, MEASURED PER SEC. 34-2111 (1) OF THE LAND DEVELOPMENT CODE.
- ② DEVIATION 2 SEEKS RELIEF FROM LDC SECTION 33-229, *MAXIMUM HEIGHT*, WHICH REQUIRES A DEVIATION TO EXCEED THE MAXIMUM HEIGHT LIMITATIONS FOR ARCHITECTURAL ELEMENTS THAT ENHANCE VISIBILITY, OR CREATE FOCAL POINTS OR AMENITIES, SUCH AS TURRETS, SCULPTURE, CLOCK TOWER AND CORNER ACCENTUATING ROOFLINES, TO ALLOW FOR ARCHITECTURAL ELEMENTS NOT TO EXCEED AN ADDITIONAL 22 FEET IN HEIGHT.



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HILTON GARDEN INN  
ESTERO, FL.

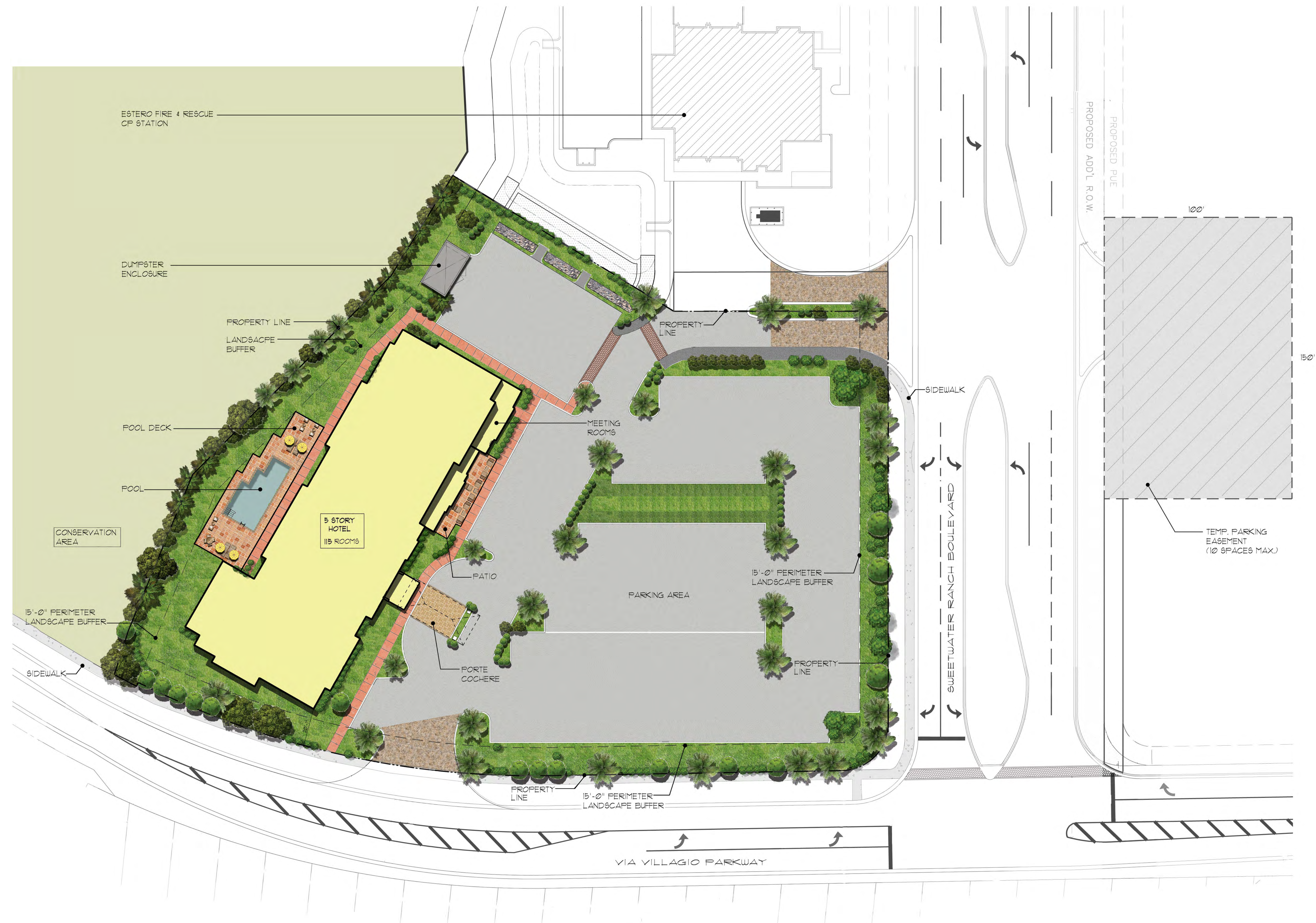
DEVIATION 1 & 2  
BUILDING HEIGHT

DATE: 12/18/2017

SCALE: NTS



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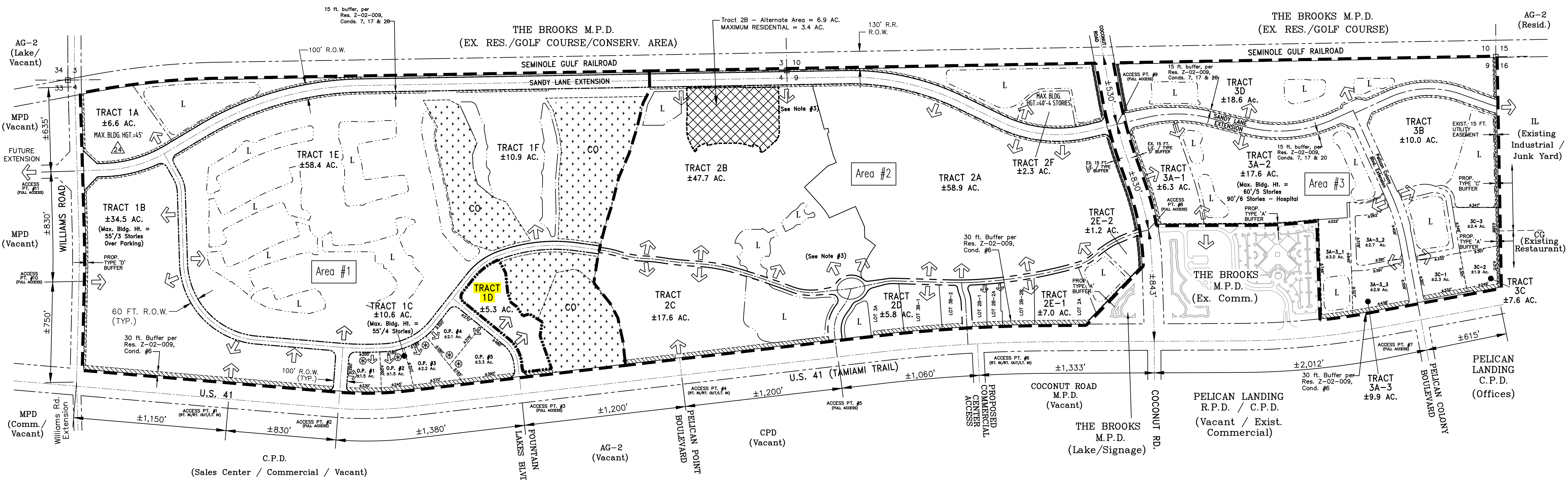
REVISION	DATE	DESCRIPTION	CHECKED BY:	APPROVED BY:
1	11-01-2011	CONCEPT PLAN		

ROOM COUNT:
1ST FLOOR: 3 KEYS
TYPICAL FLOOR # 4: 2844 + 12 KEYS
TOTAL: 18 KEYS
PARKING:
PARKING SPACES: 13

COCONUT POINT  
 TRACT 1D-3  
 PROJECT NUMBER: 17101  
 SCALE: AS SHOWN  
 CONCEPT PLAN

CONCEPT PLAN  
 SCALE: 1" = 20'  
 PROJECT NORTH

PLOTTED DATE:



**PROJECT SUMMARY:**

1. REQUEST: A REZONING FROM AG-2 TO MIXED USE PLANNED DEVELOPMENT (MPD)

2. OVERALL CONCEPTUAL PROJECT ACREAGE:

CONSERVATION AREAS	± 33.4 ACRES
LAKES	± 58.8 ACRES
INTERNAL (PRIVATE) R.O.W.	± 20.2 ACRES
INTERNAL (PUBLIC) R.O.W.	± 25.6 ACRES
GREEN AREAS / OPEN SPACE	± 8.7 ACRES
DEVELOPMENT TRACT AREAS	± 335.7 ACRES
TOTAL	± 482.4 ACRES

3. CONCEPTUAL TRACT AND LAND USE / ACREAGE BREAKDOWN:

a. DEVELOPMENT AREAS:

**Development Area #1:** (Residential - 720 M.F./A.L.F./APT. Units / Retail - Comm. 66,100 Sq.Ft. / Office 481,277 Sq.Ft. / Hotel 120 Rooms / Bank w/ D.T. - 8,000 Sq.Ft.)

Proposed Lakes	± 28.1 Ac.
Proposed Internal/Private R.O.W.	± 8.2 Ac.
Proposed Public R.O.W. (Sandy Lane Extension)	± 10.1 Ac.
Conservation Areas	± 33.4 Ac.
Green Areas / Open Space	± 4.7 Ac.
Development Areas (Tracts 1A - 1F)	± 126.3 Ac.
Total Development Area #1	± 210.8 Ac.

**Development Area #2:** (Residential - 450 M.F. Units / Retail - Comm. 1,440,110 Sq.Ft. / Gen. Office 90,000 Sq.Ft. / Hotel - 250 Rooms)

Proposed Lakes	± 17.0 Ac.
Proposed Internal/Private R.O.W.	± 6.1 Ac.
Proposed Public R.O.W. (Sandy Lane Extension)	± 8.1 Ac.
Green Areas / Open Space	± 4.0 Ac.
Development Areas (Tracts 2A - 2F)	± 140.5 Ac.
Total Development Area #2	± 175.7 Ac.

**Development Area #3:** (Residential - 424 M.F. / A.L.F. Units / Retail - Comm. 40,000 Sq.Ft. / Office 264,500 Sq.Ft.)

Proposed Lakes	± 13.7 Ac.
Proposed Internal/Private R.O.W.	± 5.9 Ac.
Proposed Public R.O.W. (Sandy Lane Extension)	± 7.4 Ac.
Development Areas (Tracts 3A-1 thru 3 - 3D)	± 68.9 Ac.
Total Development Area #3	± 95.9 Ac.

b. MAXIMUM DEVELOPMENT TRACT INTENSITY: (NOTE: CUMULATIVE INTENSITIES WILL NOT EXCEED MAXIMUM PROPOSED LAND USES FOR EACH DEVELOPMENT AREA)

<b>Development Area #1:</b>	
Tract 1A	200 MF/ALF/APT. Units / 50,000 s.f. Office
Tract 1B	450,000 s.f. Office
Tract 1C	90,000 s.f. Retail / 20,000 s.f. Office / 120 Room Hotel
<b>Tract 1D</b>	<b>5,000 s.f. Retail/35,000 s.f. Office / Fire Station / 120 Room Hotel</b>
Tract 1E	450 M.F. DU'S
Tract 1F	90 M.F. DU'S

<b>Development Area #2:</b>	
Tract 2A	650,000 s.f. Retail / 450 M.F. DU'S / 60,000 s.f. Office / 200 Room Hotel
Tract 2B	600,000 s.f. Retail / 200 Room Hotel / 200 M.F. DU'S
Tract 2C	150,000 s.f. Retail / 20,000 s.f. Office / 200 Room Hotel
Tract 2D/E	150,000 s.f. Retail / 30,000 s.f. Office / 200 Room Hotel
Tract 2F	20,000 s.f. Retail / 30,000 s.f. Office / 100 M.F. Units / 150 Room Hotel

<b>Development Area #3:</b>	
Tract 3A-1 thru 3	60,000 s.f. Retail / 300,000 s.f. Office / 160 Hospital Beds (1)
Tract 3B	200 A.L.F. Units
Tract 3C	40,000 s.f. Retail / 90,000 s.f. Office
Tract 3D	224 M.F. DU'S

	M.F. / A.L.F./APT. (UNITS)	RETAIL COMM. (SQ.FT.)	OFFICE (SQ.FT.)	HOTEL (ROOMS)	Bank w/ DT (SQ.FT.)
2001 - 2024	1,594*	1,546,210	835,777	370	8,000

\* M.F. / A.L.F./APT. UNITS MAY BE REPLACED WITH S.F. / T.F. / T.H. / DUPLEX USES SO LONG AS THE TOTAL NO. OF PEAK HOUR VEHICULAR TRIPS GENERATED BY THE DEVELOPMENT IS NOT INCREASED AND APPROVAL IS OBTAINED IN ACCORDANCE WITH RESOLUTION Z-02-009.

5. CONCEPTUAL OPEN SPACE (Tract 2B Alternate Plan):

a. REQUIRED (per L.C.L.D.C.):\*

<b>Development Area #1:</b> (LESS Sandy Lane Extension and Tracts 1A+ 1E & 1F) (Tracts 1A / 1E / 1F)	124.8 Ac. x 30%	± 37.44 Ac.
	75.9 Ac. x 40%	± 30.36 Ac.
<b>Development Area #2 [ALT 1, TRACT 2B ALT AREA = 3.4 AC RESIDENTIAL MAX]:</b> (LESS Sandy Lane Extension & Resid. Area) (Residential Area)	158.4 Ac. x 30%	± 47.5 Ac.**
	9.2 Ac. x 40%	± 3.7 Ac.
<b>Development Area #2 [ALT 2, TRACT 2B ALT AREA = NO RESIDENTIAL]:</b> (LESS Sandy Lane Extension & Resid. Area) (Residential Area)	161.8 Ac. x 30%	± 48.5 Ac.
	5.8 Ac. x 40%	± 2.3 Ac.
<b>Development Area #3:</b> (LESS Sandy Lane Extension & Tracts 3B & 3D) (Tracts 3B & 3D)	59.7 Ac. x 30%	± 17.9 Ac.
	28.8 Ac. x 40%	± 11.5 Ac.
<b>Total Open Space Required [ALT 1]:</b>		± 148.4 Ac.
<b>Total Open Space Required [ALT 2]:</b>		± 148.0 Ac.

\* The % of Open Space may vary depending upon the ultimate land uses.  
\*\* Includes Residential above Commercial uses.

b. PROVIDED (per L.C.L.D.C.):

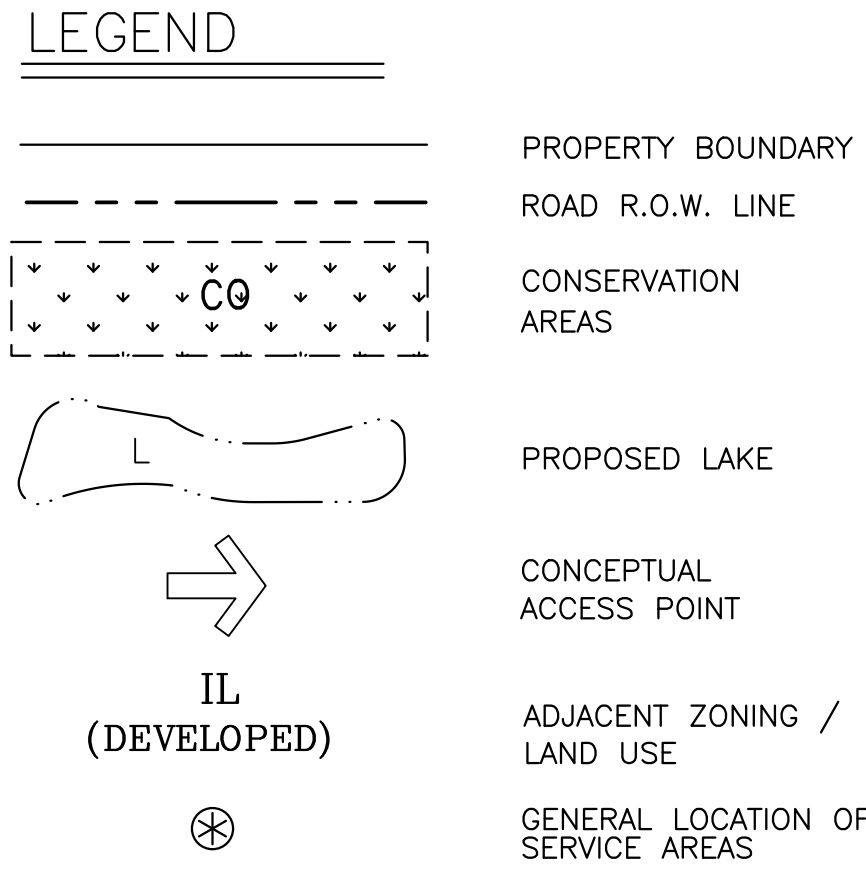
Prop. Lake Areas (@ < 25.0% of 150.2 Ac.)	± 37.6 Ac.
Prop. Conservation Areas	± 33.4 Ac.
<b>Development Area #1:</b> Commercial Development (Tracts 1B/1C/1D) Residential Development (Tracts 1A/1E/1F)	50.4 Ac. x 19.65% ± 9.9 Ac. 75.9 Ac. x 30.0% ± 22.8 Ac.
Sub-total:	± 32.7 Ac.
<b>Development Area #2 [ALT 1, TRACT 2B ALT AREA = 3.4 AC RESIDENTIAL MAX]:</b> Commercial Development (Tracts 2A - 2F) Residential Development (Tract 2A) Residential Development (Tracts 2B)	131.3 Ac. x 19.52% ± 25.6 Ac. 5.8 Ac. x 23.60% ± 1.4 Ac. 3.4 Ac. x 23.50% ± 0.8 Ac.
Sub-total:	± 27.8 Ac.
<b>Development Area #2 [ALT 2, TRACT 2B ALT AREA = NO RESIDENTIAL]:</b> Commercial Development (Tracts 2A - 2F) Residential Development (Tract 2A)	134.7 Ac. x 19.52% ± 26.3 Ac. 5.8 Ac. x 23.60% ± 1.4 Ac.
Sub-total:	± 27.7 Ac.

Development Area #3:

Commercial Development Tracts (Tracts 3A-1 thru -3 & 3C)	42.6 Ac. x 19.55%	± 8.3 Ac.
Residential Development (Tracts 3B & 3D)	28.8 Ac. x 30.00%	± 8.6 Ac.
Sub-total:		± 16.9 Ac.
<b>Total Open Space Provided [ALT 1]:</b>		± 148.4 Ac.
<b>Total Open Space Provided [ALT 2]:</b>		± 148.0 Ac.

6. INDIGENOUS OPEN SPACE: DUE TO THE EXISTING AGRICULTURAL LAND USE AND THE EXTENT OF MELALEUCA INVASION WITHIN THE REMAINING FORESTED AREAS, NO INDIGENOUS OPEN SPACE IS REQUIRED.

7. NOTES:
- A. Internal access will be provided to allow through traffic between US 41 and Sandy Lane Extension.
  - B. For Tract 1C general service area locations, see above MCP.
  - C. The project will be designed to facilitate the use of the Lee Tran services in accordance with Lee County LDC Sec. 34-411(e) and 10-442.



NO.	REVISIONS	DATE
01/26/06	Added MF Units to Tract 2B (See Increase in table above)	01/26/06
11/16/05	Added Access Pt. for Tract 3A-1	11/16/05
07/16/05	Revised for Administrative Amendment #8 Tract 3D	07/16/05
02/22/05	Revised for Admin. Amendment A022005-00080	02/22/05
02/04/05	Revised for Administrative Amendment Submittal	02/04/05
08/25/04	Revised for Administrative Amendment Submittal	08/25/04
05/19/04	Revised for Administrative Amendment Submittal	05/19/04
02/27/04	Revised for Administrative Amendment Submittal	02/27/04
12/09/02	Revised per County Attorney's Office Memo	12/09/02
12/16/01	Revised Tracts / O.S. Calc's / Permitted Uses	12/16/01
03/08/01	Revised per County Staff 1st R.A.U.	03/08/01

6200 Whiskey Creek Drive  
Fort Myers, FL 33919  
Phone: (239) 985-1200  
Florida Certificate of  
Authorization No. 1772

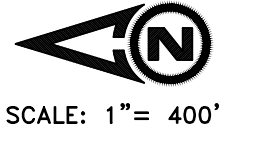


**COCONUT POINT M.P.D.  
MASTER CONCEPT PLAN  
EXHIBIT IV - E**

DESIGNED: E.M.C.	DATE: 08/16/05
DRAWN: C.R.B.	DATE: 08/16/05
CHECKED: P.M.	DATE: 05/16/17
VERT. SCALE: 1" = 400'	HORIZ. SCALE: 1" = 400'

DRAWING NO.	9779B_MCP8
PROJECT NO.	97.79-B
SHEET NO.	1 of 1

ATTACHMENT 'A'



SCALE: 1" = 400'

**Coconut Point North Village  
Surface Water Management Analysis – Basin 5A**

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Prepared For:

Coconut Point North Village Association, Inc.



Prepared By:



6200 Whiskey Creek Dr., Fort Myers, FL 33919

239.985.1200 FAX: 239.985.1259

March 27, 2018

## EXECUTIVE SUMMARY

In the summer of 2017, a series of large unprecedented rainfall events over 2 ½ weeks occurred within the southern Lee County area. These rainfall events led to various flood stages within the many Village of Estero communities, including the Coconut point North Village Basin 5A. On August 26 -28, approximately 17 inches of rainfall fell on the Coconut Point / Brooks developments, exceeding the SFWMD 100 year – 3-day design storm event. On September 10, Hurricane Irma produced approximately 10 inches over 1 day, exceeding the SFWMD 100 year – 1-day design storm event. Observations of the Coconut Point North Village Basin 5A surface water management (SWM) system during these storm events revealed the following:

- The main backbone road within the basin (Via Villagio) had ponding water at the low / inlet points as anticipated per design.
- The Rapallo community had ponding water within the lakes and roadways that appeared to peak at approximately 15.8 -15.9 NGVD.
- The outfall into the Halfway Creek flowway based on monitoring data peaked at approximately 15.2 NGVD.
- Certain low / inlet points within Rapallo roadways ponded more water than anticipated, leading one to conclude possible pipe blockage or reduced capacity.
- The Basin 5A control structure did not bleed down to control elevation (12.5 NGVD) in between storms.

Because of the above flood stages and observations, the Coconut Point North Village Association requested an analysis of the Coconut Point Basin 5A SWM system to determine the effect of buildout of the remaining Coconut Point North Village vacant lands and to recommend any improvements if needed.



## BACKGROUND

Coconut Point is a 482-acre master planned mixed-use development within the Village of Estero. The project was conceptually permitted by SFWMD in 1997 as part of an overall 3014-acre project known as The Brooks of Bonita Springs and Sweetwater Ranch MPD. A Conceptual Environmental Resource Permit (ERP) Modification was approved in 2003 and later a series of ERP Construction / Operation permits were approved between 2004-2005.

The Basin 5A SWM system consists of a drainage area of 152.4 acres generally bounded by US 41 on the west, Williams Road on the north, the Seminole Gulf Railroad on the east, and the Halfway Creek flowway area on the south, refer to attachment "Drainage Exhibit" for a graphical depiction of the Basin 5A boundary and projects served. Basin 5A contains 22.2 acres of lakes all interconnected by equalizer pipes, with a control structure that discharges into the southern Halfway Creek flowway and ultimately to the Estero River. Basin 5A generally serves all commercial lands along US 41 and Williams Road, the residential parcel Tract 1A in the northeast portion of the basin, the basin's backbone roadways, a portion of Via Coconut public roadway and the Rapallo residential community. The majority of the SWM system's wet detention lakes are located within the Rapallo residential community. There are also dry pretreatment stormwater areas that treat the first flush of runoff within the commercial tracts that provide additional storage. See attached Exhibit A depicting the Master Drainage Plan for Basin 5A.

SFWMD permitted design parameters are as follows:

Control Elevation: 12.50 NGVD

5 Year – 1 Day storm event Design High Water (DHW): 14.31 NGVD;

Discharge (Q) = 8.78 cfs

25 Year – 3 Day storm event DHW: 15.14 NGVD

Discharge Q = 13.80 cfs

100 Year – 3 Day storm event DHW: 15.96 NGVD

Discharge Q = 0.0 cfs

Minimum Roads = 15.0 NGVD

Minimum Perimeter Berm = 15.2 NGVD

Minimum Finished Floor = 16.50 NGVD

## **ANALYSIS**

The following are the results from four (4) computer design models completed to simulate the function of the Coconut Point North Village Basin 5A SWM system under different design criteria. This will help predict future peak storm events under various development scenarios while also indicating where possible drainage improvements could lessen such peak storm levels within the Basin 5A SWM system.

The models compared the results of the system to provide flood protection utilizing performance criteria as established by SFWMD and Lee County as being the 5-year (24 hour) and 3-day (72 Hour) design storm events, while maintaining minimum allowable release of excess storm runoff from the site. The performance of the system is required to provide that minimum center line of roadway elevations are above the peak stage resulting from a 5-year event and provide storm water attenuation of excess runoff so as to not increase the flow off-site resulting from a 25-year design event. The perimeter berm of the development must meet or exceed the 25-year design peak water elevation, and a control structure is designed to limit the offsite flow or discharge to meet the allowable release rate. Basin 5A has a control structure in place and perimeter berm constructed for the system.

The four scenarios of development modeled are summarized as follows:

**Model 1**: The first model analyzed the series of interconnected lakes and development using “as-constructed” record information that included the actual lake volumes for estimating storm water storage and used the maximum built-out land cover for developed areas that provided the impervious surface to estimate

the rate of storm runoff. This model differed from the model completed at the time of permitting Basin 5A through SFWMD (Permit # 36-00288-S) because the former model only used “estimates” for future development, while this Model 1 uses actual values for the actual current developments. Known future development plans were used for Tract 1A (apartment site) and Tract 1D-3 (hotel site). The remaining vacant tracts (Tract 1C and 1D-1) used the same permitted assumptions for development. The same assumed outfall conditions used at time of permitting was used. The model also reduced the basin time of concentration to 20 minutes versus the original model of 60 minutes to reflect more directly connected impervious areas suited to the urban development of the basin.

The results of the model compared to the estimates derived at the time of permit review are tabulated below (Please note that Model 1 provided peak stages for each lake as more detailed information as to connectivity of the lake system is available) The comparison of the two models showed a slight increase of the 25-year peak stage for Lake 5A-3 and Lake 5A-4, of 0.21 ft, or about 3 inches.

	<u>5 year/ 1 Day (ft NGVD)</u>	<u>25 year/3 Day (ft NGVD)</u>	<u>Peak Q (CFS)</u>
<i>Original Permit</i>	14.31	15.14	13.8
<i>Model 1:</i>			
<i>Lake 5A-1</i>	14.34	15.18	
<i>Lake 5A-2</i>	14.34	15.18	
<i>Lake 5A-3</i>	14.37	15.36	
<i>Lake 5A-4</i>	14.46	15.35	
<i>Lake 5A-5</i>	14.45	15.34	
<b><i>Lake 5A-6</i></b>	<b>14.33</b>	<b>15.18</b>	<b>14.40</b>
<i>Lake 5A-7</i>	14.42	15.30	

*Note: Lake 5A-6 water level at 10 days after rain event recedes to 12.57, or 0.07 ft above control elevation 12.5 ft NGVD.*

**Model 1A:** Model 1A used the same data provided within Model 1 for lake storage and input used to estimate runoff from development lands. The difference between Models 1 and 1A is that Model 1A used actual tail-water stages to reflect the elevation measured by staff gage from the “above design” storm events witnessed during the 2017 storm season. The observed tail water were elevations measured in the downstream flow way within Coconut Point and are the location where the Basin 5A system outfalls from on-site lakes through the control structure to the flow-way via a 36” diameter culvert. A comparison of the tailwater stages estimated in the original permit versus observed are summarized below and they are inputted into the model with varying time to simulate the rising and falling of the tailwater stage:

<u>Hour</u>	<u>Model 1 Tail Water (ft NGVD)</u>	<u>Model 1A Tail Water (ft NGVD)</u>
0	12.0	12.5
24	12.4	12.8
48	13.1	14.8
72	14.3	15.1
168		14.1
200	12.5	
336		12.5
360	12.0	12.5

A comparison of the Model 1A versus the Original Permit data is provided below, and the lake nearest the outfall structure exhibited an increase of 0.37 ft, or about 4.5 inches for the 25-year event due to the higher tailwater affects. The peak outfall discharge reduced to only 11.31 cfs as well:

	<u>5 year (ft NGVD)</u>	<u>25 year (ft NGVD)</u>	<u>Peak Disch. (CFS)</u>
Original Permit	14.31	15.14	13.8
<i>Model 1A:</i>			
Lake 5A-1	14.83	15.51	
Lake 5A-2	14.83	15.51	
Lake 5A-3	14.83	15.64	
Lake 5A-4	14.83	15.64	
Lake 5A-5	14.83	15.63	
Lake 5A-6	14.83	15.51	11.31
Lake 5A-7	14.83	15.60	

*Note: Lake 5A-6 water level at 10 days after rain event recedes to 13.06, or 0.56 ft above control elevation 12.5 ft NGVD.*

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**Model 2:** Model 2 utilized much of the same data for lake storage, estimated development runoff and tailwater stage in Model 1A, but analyzed the potential mitigating conditions for currently undeveloped tracts as potentially ponding excess runoff and lessening the overall peak stage witnessed during the 2017 “above design” storm events. The undeveloped tracts were altered in the model so they could store excess runoff. The runoff from these lots were also changed from a potential “build-out” impervious land cover to their generally pasture land cover, or Curve Number of 83 to be exact. Current / existing ground elevations

were used for storage purposes. The affects of the undeveloped lots and potential storage had a reduction to the peak stage of Lake 5A-6 of about 0.15 ft or around 2 inches, and there was a reduction of the peak discharge to about 9.3 cfs. The comparison of Model 2 versus Model 1A is summarized as follows:

	<u>5 year (ft NGVD)</u>	<u>25 year (ft NGVD)</u>	<u>Peak Disch. (CFS)</u>
Original Permit	14.31	15.14	13.8
<i>Model 1A/Model 2:</i>			
Lake 5A-1	14.83/14.79	15.51/15.42	
Lake 5A-2	14.83/14.79	15.51/15.42	
Lake 5A-3	14.83/14.79	15.64/15.50	
Lake 5A-4	14.83/14.79	15.64/15.49	
Lake 5A-5	14.83/14.79	15.63/15.48	
Lake 5A-6	14.83/14.79	15.51/15.41	11.31/9.33
Lake 5A-7	14.83/14.79	15.60/15.47	

*Note: Lake 5A-6 water level at 10 days after rain event recedes to 13.12, or 0.62 ft above control elevation 12.5 ft NGVD.*

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**Model 3:** One last simulation was performed that analyzed the improvement of the control structure so that the system could discharge excess runoff as was allowed by the original permit, or the pre versus post benchmark. The original permit allowed the Basin to discharge up to 13.8 cfs, while the results of Model 1A determined with the higher tailwater condition only about 11.3 cfs was being

discharged. Model 3 increases the size of the control structure opening so more flow can exit increasing the notch from 16” width to 17.5 inches. However, to get more discharge it was found that the 36” outfall pipe also was limiting the discharge to the flow-way. Increasing the flow required the outfall pipe exiting the Control Structure 5A to also be increased from 36” diameter to 48” diameter to attain the desired flow. The results of this option are summarized as follows:

	<u>5 year (ft NGVD)</u>	<u>25 year (ft NGVD)</u>	<u>Peak Disch. (CFS)</u>
Original Permit	14.31	15.14	13.8
<i>Model 1A/Model 3:</i>			
Lake 5A-1	14.83/14.86	15.51/15.49	
Lake 5A-2	14.83/14.86	15.51/15.49	
Lake 5A-3	14.83/14.86	15.64/15.65	
Lake 5A-4	14.83/14.86	15.64/15.65	
Lake 5A-5	14.83/14.86	15.63/15.64	
Lake 5A-6	14.83/14.86	15.51/15.48	11.31/13.7
Lake 5A-7	14.83/14.86	15.60/15.60	

*Note: Lake 5A-6 water level at 10 days after rain event recedes to 13.02, or 0.52 ft above control elevation 12.5 ft NGVD.*

## Results and Recommendations

The model used in the original permit included estimates for the future development of the basin and what lakes would be constructed to provide flood protection for the community. This model also evaluated a control structure to limit flow to the downstream flow way based upon assumed water elevations of the downstream natural flow way or tail water condition. Since the permit was issued, the community experienced extreme storm events in the 2017 season that observed downstream stages at high elevations for a longer duration than originally assumed under SFWMD criteria for design storms. This negatively affected the performance of the system to provide flood protection and allow the system to recede or re-charge for the next storm event. The proper time for recharge is generally 10 days after the storm event passes.

If the results and comparison of Model 3 are used as a benchmark, a modification of the existing control structure to increase the peak discharge for the 25-year event required not only modifying the control structure, but increasing the outfall pipe capacity as well. However, this reduction in peak storm elevation is modest in terms of flood protection and the cost for renovation of the existing control structure and the outfall pipe is not practical. Furthermore, this modification would never provide additional assurance that in the case of an extreme storm event greater than estimated, that the lake system would not be subject to the same extents of flooding since the location of the existing control structure is internal to the Rapallo development rather than in a more beneficial location as adjacent to the outfall/flow-way.

It is our professional opinion, that the addition of emergency overflow structure(s) so that the lake system would spill over to the downstream flow way would be more effective and advantageous, as well as providing redundancy for flood protection. The overflow structure offers assurance for the system to outfall excess runoff rather than reliance on the control structure or underground storm sewer exiting the structure that can get clogged or further restricts capacity for storm events beyond the 25-year design event. The emergency overflow structure(s) can be designed so when the lake system exceeds the permitted 25-year design stage, 15.14 ft NGVD, that it starts allowing water to discharge to the downstream natural flow way. This practice should be permissible and is in



accordance with SFWMD criteria in that the 25-year design event has to be contained within the site and the perimeter berms. The addition of a spillway would not compromise the surface water management system as long as the elevation of the overflow structure is at or exceeds the 25-year peak stage elevation and is properly stabilized to prevent erosion.

In determining a preferred location for an overflow structure, it should be located so the source or lake system is contiguous and hydraulically connected so once the lake stage is exceeded, it can flow freely. Secondly, it should be as close to the downstream natural flow way as possible. Since most the existing lake system constructed is landlocked by buildings, Lake 5A-1 is potentially a location adjacent to the railroad grade offering such a possibility due to the lake proximity to the railroad grade/ditch that is connected to the upstream portion of the flow-way. An additional and possibly superior location would be near or within the future development tracts between the natural flow way and Sweetwater Ranch Road that provide close proximity to the downstream flow-way closer to US 41. At this area, there is a combination of underground storm sewer connecting Lake 5A-7 under Via Villagio roadway just south of the intersection of Sweetwater Ranch Road that serves as a drainage connection to swale near the Estero Fire Station development. The swale within the undeveloped tract could be improved with portions of the southern bank of the swale to serve as an overflow structure should the lake elevation exceed 15.12 ft. In addition, if permissible with SFWMD, this location could also serve as an additional control structure so the allowable discharge rate for the overall Basin 5A could be attained to meet the allowable rate of 13.8 cfs, while it apparently does not due to the witnessed tailwater conditions. This would allow the existing control structure within 5A-6 to remain “as-is”, and then construct another control structure in combination for the overflow structure to attain the overall discharge rate allowed.

There are other possible locations where flood mitigation can be provided such as the southern edge of the Rapallo property adjacent to the flow way. There are multiple minor drainage structures that collect roof drains and yard swales to convey the runoff to the Rapallo storm sewer and ultimately the lakes. It may be possible to have these systems provide reverse flow during peak stage events where they would act as overflow devices to convey water from the lakes to the flowway – again only when the lake level exceeds the 25-year design event.

In either case, the overflow structure(s) and yard drain pipes will need review and approval through the relevant agencies, including but not limited to Village of Estero and SFWMD. The overflow structures should be armored to resist erosion of the crest and would include some type of energy dissipater downstream to reduce the velocity of the excess runoff to the receiving waters. Depending on the extent of the overflow structures desired, the costs of each overflow structure are in the range of \$15,000-\$20,000 including costs relative to design, permitting and construction. A new control structure would be much less than the costs to modify the existing control structure and replace the outfall pipe. A new structure would be approximately \$8,000 and should be integrated with the overflow structure to save overall cost.

We would recommend a pre-application meeting with SFWMD staff to review this analysis and its recommendations.

Please refer to Exhibit A for a graphical depiction of the recommendations suggested.

In addition, based on storm event observations, an inspection and periodical maintenance program should be initiated for all of the Rapallo SWM system piping, and the key offsite drainage structures affecting the Halfway Creek flowway and ultimately the SWM system's outfall control structure and pipe.

The existing control structure CS5A located within the Coconut Point Basin 5A was modified to increase the overflow area (above the 25 year / 3 day storm event) in 2008. Notches in the walls were constructed so water could enter the structure in case debris or such affected the flow of water. The structure could be modified further to i) increase the overflow capacity of the structure; and / or ii) widen the weir in order to account for higher tailwater conditions. The costs to modify the structure would be approximately \$3000 to widen or cut new notches within the concrete walls of the structure and approximately \$2500 to widen / cut the existing weir plate. Again SFWMD review and approval would be required.

## **ATTACHMENTS**

Basin 5A – DRAINAGE EXHIBIT

EXHIBIT A – CONCEPTUAL SPILLWAY LOCATIONS

ICPR MODEL 1 output

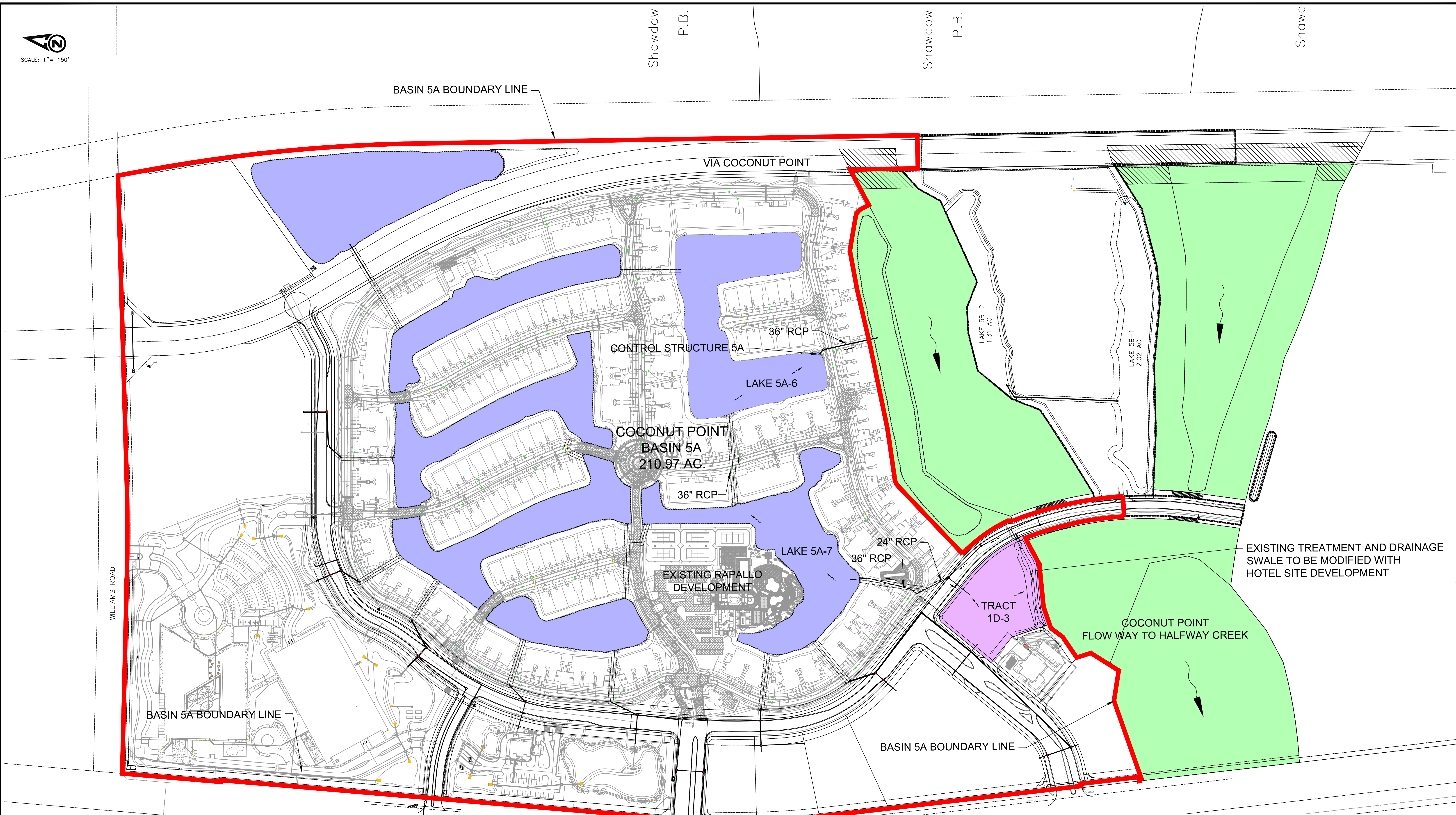
ICPR MODEL 1A output

ICPR MODEL 2 output

IPR MODEL 3 output



SCALE: 1" = 150'



STORMWATER MANAGEMENT SUMMARY (PERMIT # 36-00288-S, APP# 020116-8)

BASIN	MWL	5 YEAR EVENT		25 YEAR EVENT		100 YEAR EVENT		MIN. ROADS (NGVD)	MIN. BERM (NGVD)	MIN. FF (NGVD)
		STAGE NGVD	DISCHARGE CFS	STAGE NGVD	DISCHARGE CFS	STAGE NGVD	BASIN DISCHARGE CFS			
5A	12.5	14.31	8.78	15.14	13.80	15.96	-	15.00	16.00	16.50

NUMBER	REVISIONS	DATE

## Coconut Point

### Tract 1D-3/Basin 5A

DESIGNED BY: R.B. DATE: 03/19/07  
 DRAWN BY: J.C.B. DATE: 03/19/07  
 CHECKED BY: R.B. DATE: 03/07  
 VERTICAL SCALE: NONE HORIZONTAL SCALE: 1" = 20'



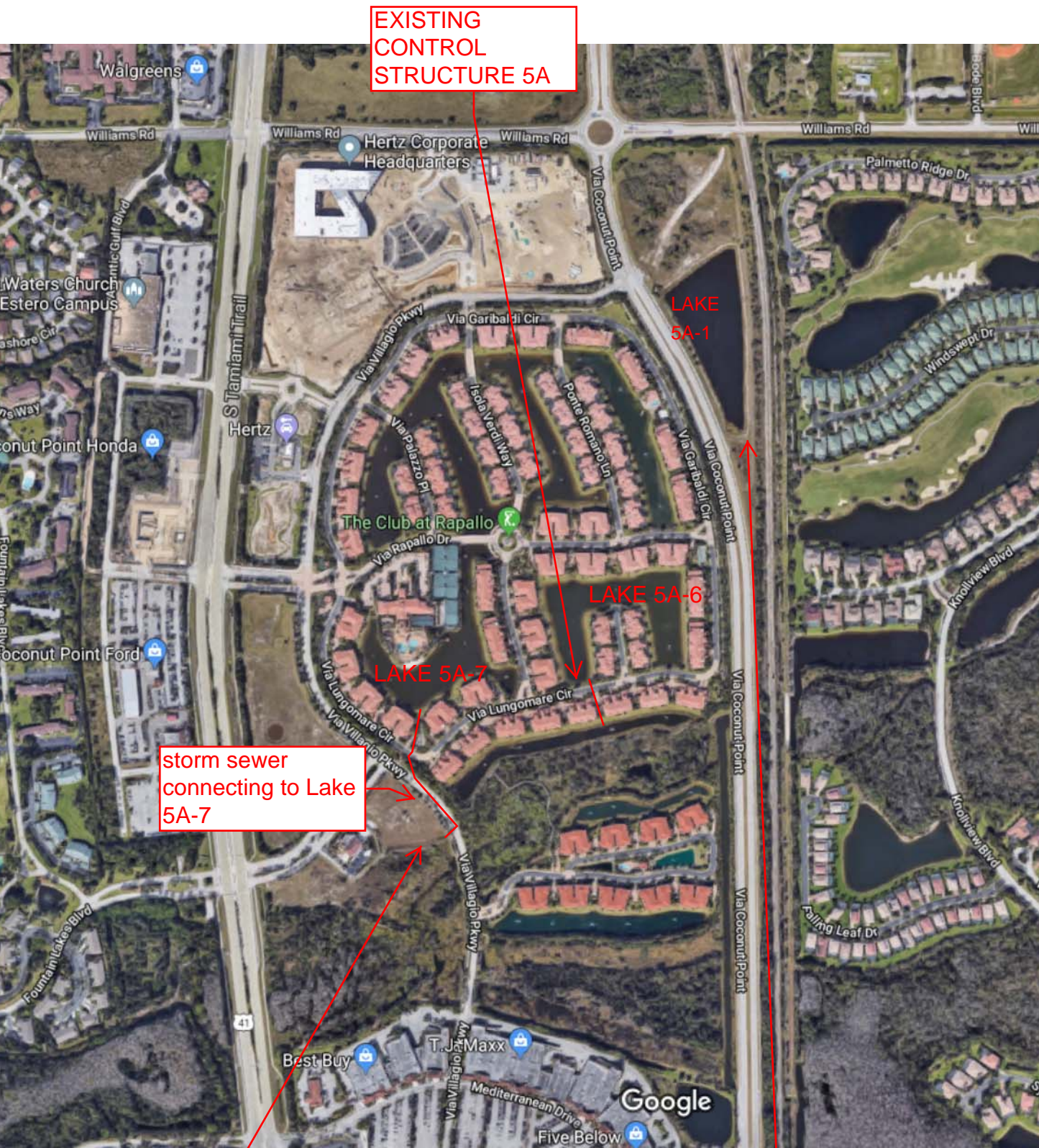
6200 Whiskey Creek Drive  
 Fort Myers, FL. 33919  
 Phone : (941) 985-1200  
 Professional Registration No.1772  
 Naples · Fort Myers · Venice · Englewood

### DRAINAGE EXHIBIT

THESE DRAWINGS ARE NOT APPROVED UNLESS SIGNED AND SEALED BELOW :  
 \_\_\_\_\_  
 FLORIDA PROFESSIONAL ENGINEER  
 DATE \_\_\_\_\_

REFERENCE NO.	DRAWING NO.
PROJECT NO.	SHEET NO.
2017.018	OF

H:\2007\200707\DWG\CONSTRUCTION\LEE\_CO-SF\MD\_PLANS\04-0707E\KCDWG\_3/22/2007\_10:49:48 AM.EDT



EXISTING CONTROL STRUCTURE 5A

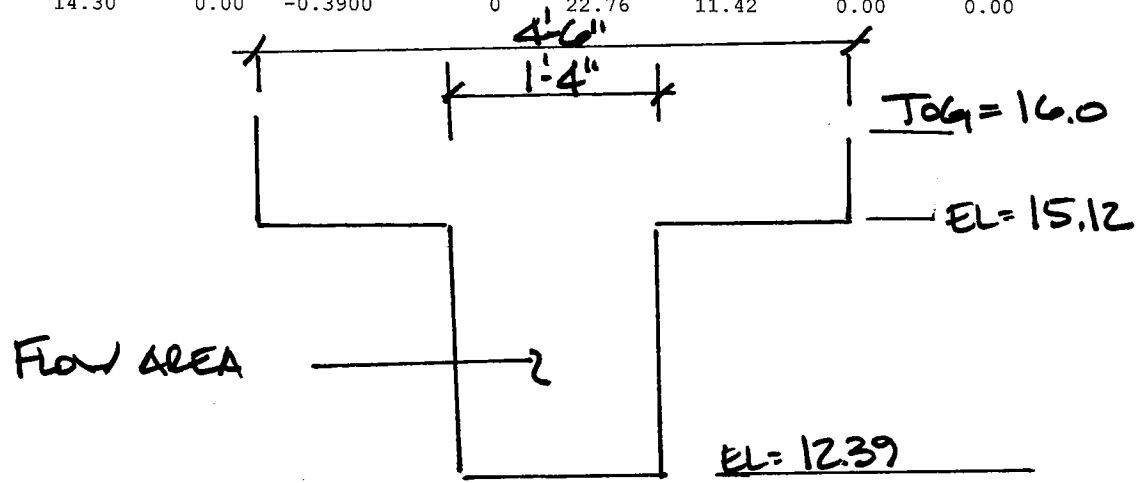
storm sewer connecting to Lake 5A-7

COMBINATION ADD'L. CONTROL STRUCTURE WITH SPILLWAY LOCATION B

SPILLWAY LOCATION A

EXHIBIT A

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
F.S. Basin	BASE	25 year1	68.99	15.30	0.00	0.0016	489541	60.00	65.86	9.04	15.56
Hertz GHQ Basin	BASE	25 year1	68.75	15.35	0.00	0.0002	426123	60.00	72.36	59.94	13.97
Hertz SC Basin	BASE	25 year1	68.91	15.34	0.00	0.0090	234577	60.00	25.37	8.42	2.95
Hertz Undev.	BASE	25 year1	68.76	15.36	0.00	-0.0076	219898	60.00	31.86	59.52	9.38
Junction 4-5	BASE	25 year1	70.07	15.34	0.00	-0.0217	148	9.73	10.05	61.02	13.77
Lake 5A-1	BASE	25 year1	72.35	15.18	0.00	0.0001	592334	60.00	64.06	88.72	2.06
Lake 5A-2	BASE	25 year1	72.27	15.18	0.00	0.0002	196442	60.00	29.71	88.94	2.73
Lake 5A-3	BASE	25 year1	68.76	15.36	0.00	0.0002	244396	60.00	43.31	65.31	2.28
Lake 5A-4	BASE	25 year1	68.76	15.35	0.00	0.0002	190127	60.00	40.33	60.32	7.57
Lake 5A-5	BASE	25 year1	68.89	15.34	0.00	0.0044	155521	60.00	20.91	8.25	4.60
Lake 5A-6	BASE	25 year1	72.24	15.18	0.00	0.0122	322076	60.00	62.95	64.14	14.40
Lake 5A-7	BASE	25 year1	68.99	15.30	0.00	0.0114	333672	60.00	75.13	62.86	11.45
Outfall	BASE	25 year1	72.00	14.30	0.00	-0.3900	0	64.14	14.40	0.00	0.00
F.S. Basin	BASE	5YEAR	20.81	14.42	0.00	0.0016	170599	12.00	40.40	12.00	35.41
Hertz GHQ Basin	BASE	5YEAR	18.38	14.47	0.00	0.0004	194801	12.00	44.39	12.02	21.33
Hertz SC Basin	BASE	5YEAR	20.21	14.45	0.00	0.0090	124384	12.00	15.56	11.46	2.39
Hertz Undev.	BASE	5YEAR	18.09	14.47	0.00	0.0023	76110	12.00	19.55	12.00	19.50
Junction 4-5	BASE	5YEAR	20.17	14.45	0.00	0.0233	148	14.50	9.91	12.55	12.80
Lake 5A-1	BASE	5YEAR	23.58	14.34	0.00	0.0003	326543	12.00	39.29	29.11	1.61
Lake 5A-2	BASE	5YEAR	23.46	14.34	0.00	0.0003	129673	12.00	17.79	2.01	2.29
Lake 5A-3	BASE	5YEAR	18.12	14.47	0.00	0.0004	174580	12.00	42.03	12.80	2.77
Lake 5A-4	BASE	5YEAR	18.41	14.46	0.00	0.0004	144165	12.01	36.27	12.91	7.53
Lake 5A-5	BASE	5YEAR	20.17	14.45	0.00	0.0044	100908	12.00	17.17	4.98	4.79
Lake 5A-6	BASE	5YEAR	23.33	14.33	0.00	0.0121	227010	12.00	43.55	22.76	11.42
Lake 5A-7	BASE	5YEAR	20.81	14.42	0.00	0.0115	218978	12.01	65.20	12.66	16.49
Outfall	BASE	5YEAR	72.00	14.30	0.00	-0.3900	0	22.76	11.42	0.00	0.00

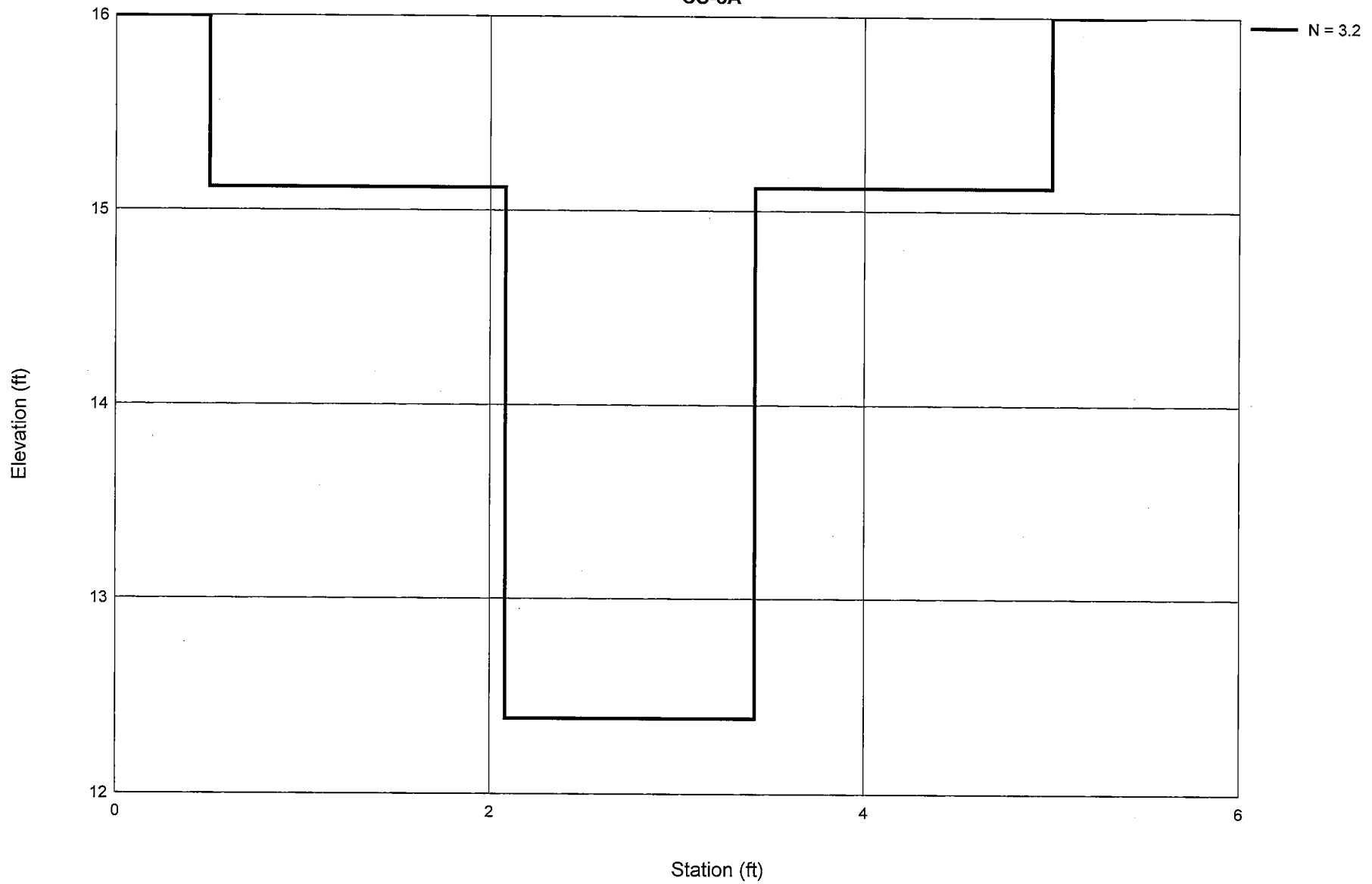


Model 1

AS-BUILT CONTROL STRUCTURE SA

Breakout 1  
4/2/2018

CS-5A



Breakout 1

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25 year1	Lake 5A-6	BASE	0.00	12.39	0.00	158	0.00	0.00	0.0	0.0
25 year1	Lake 5A-6	BASE	1.02	12.39	0.00	158	0.00	0.00	0.0	0.0
25 year1	Lake 5A-6	BASE	2.02	12.39	0.00	158	0.00	0.00	0.0	0.0
25 year1	Lake 5A-6	BASE	3.01	12.39	0.00	158	-0.17	0.00	-0.0	0.0
25 year1	Lake 5A-6	BASE	4.00	12.39	0.00	158	6.71	0.00	0.3	0.0
25 year1	Lake 5A-6	BASE	5.00	12.40	0.00	158	6.70	0.00	0.8	0.0
25 year1	Lake 5A-6	BASE	6.00	12.42	0.00	158	6.70	0.02	1.4	0.0
25 year1	Lake 5A-6	BASE	7.00	12.44	0.00	158	6.70	0.05	1.9	0.0
25 year1	Lake 5A-6	BASE	8.00	12.47	0.00	158	6.71	0.09	2.5	0.0
25 year1	Lake 5A-6	BASE	9.00	12.50	0.00	182126	-3.07	0.16	2.6	0.0
25 year1	Lake 5A-6	BASE	10.00	12.51	0.00	182126	0.88	0.19	2.5	0.0
25 year1	Lake 5A-6	BASE	11.00	12.53	0.00	182126	0.94	0.22	2.6	0.1
25 year1	Lake 5A-6	BASE	12.00	12.54	0.00	182126	1.12	0.26	2.7	0.1
25 year1	Lake 5A-6	BASE	13.00	12.56	0.00	182126	1.10	0.30	2.8	0.1
25 year1	Lake 5A-6	BASE	14.00	12.58	0.00	182126	1.18	0.34	2.9	0.1
25 year1	Lake 5A-6	BASE	15.00	12.59	0.00	182126	1.25	0.39	3.0	0.2
25 year1	Lake 5A-6	BASE	16.00	12.61	0.00	182126	1.32	0.44	3.1	0.2
25 year1	Lake 5A-6	BASE	17.00	12.63	0.00	182126	1.39	0.50	3.2	0.2
25 year1	Lake 5A-6	BASE	18.00	12.65	0.00	182126	1.46	0.55	3.3	0.3
25 year1	Lake 5A-6	BASE	19.00	12.66	0.00	182126	1.52	0.61	3.4	0.3
25 year1	Lake 5A-6	BASE	20.00	12.68	0.00	182126	1.59	0.67	3.6	0.4
25 year1	Lake 5A-6	BASE	21.00	12.70	0.00	182126	1.65	0.74	3.7	0.4
25 year1	Lake 5A-6	BASE	22.00	12.72	0.00	182126	1.71	0.80	3.8	0.5
25 year1	Lake 5A-6	BASE	23.00	12.74	0.00	182126	1.67	0.87	4.0	0.6
25 year1	Lake 5A-6	BASE	24.00	12.75	0.00	182126	1.73	0.93	4.1	0.6
25 year1	Lake 5A-6	BASE	25.00	12.77	0.00	182126	2.23	1.00	4.3	0.7
25 year1	Lake 5A-6	BASE	26.00	12.80	0.00	182126	2.41	1.08	4.5	0.8
25 year1	Lake 5A-6	BASE	27.00	12.83	0.00	182126	2.49	1.16	4.7	0.9
25 year1	Lake 5A-6	BASE	28.00	12.85	0.00	182126	2.56	1.24	4.9	1.0
25 year1	Lake 5A-6	BASE	29.00	12.88	0.00	182126	2.62	1.32	5.1	1.1
25 year1	Lake 5A-6	BASE	30.00	12.90	0.00	182126	2.68	1.40	5.3	1.2
25 year1	Lake 5A-6	BASE	31.00	12.93	0.00	182126	2.74	1.48	5.5	1.3
25 year1	Lake 5A-6	BASE	32.00	12.95	0.00	182126	2.80	1.55	5.8	1.5
25 year1	Lake 5A-6	BASE	33.00	12.98	0.00	182126	2.86	1.63	6.0	1.6
25 year1	Lake 5A-6	BASE	34.00	13.00	0.00	182126	2.91	1.70	6.2	1.7
25 year1	Lake 5A-6	BASE	35.00	13.03	0.00	182126	2.98	1.76	6.5	1.9
25 year1	Lake 5A-6	BASE	36.00	13.05	0.00	182126	3.04	1.83	6.7	2.0
25 year1	Lake 5A-6	BASE	37.00	13.07	0.00	182126	3.12	1.90	7.0	2.2
25 year1	Lake 5A-6	BASE	38.00	13.10	0.00	182126	3.18	1.97	7.3	2.3
25 year1	Lake 5A-6	BASE	39.00	13.12	0.00	182126	3.25	2.03	7.5	2.5
25 year1	Lake 5A-6	BASE	40.00	13.15	0.00	182126	3.30	2.10	7.8	2.7
25 year1	Lake 5A-6	BASE	41.00	13.17	0.00	182126	3.36	2.16	8.1	2.8
25 year1	Lake 5A-6	BASE	42.00	13.19	0.00	182126	3.42	2.22	8.3	3.0
25 year1	Lake 5A-6	BASE	43.00	13.22	0.00	182126	3.47	2.27	8.6	3.2
25 year1	Lake 5A-6	BASE	44.00	13.24	0.00	182126	3.52	2.33	8.9	3.4
25 year1	Lake 5A-6	BASE	45.00	13.26	0.00	182126	3.56	2.38	9.2	3.6
25 year1	Lake 5A-6	BASE	46.00	13.29	0.00	182126	3.59	2.43	9.5	3.8
25 year1	Lake 5A-6	BASE	47.00	13.31	0.00	182126	3.62	2.48	9.8	4.0
25 year1	Lake 5A-6	BASE	48.00	13.33	0.00	182126	3.75	2.52	10.1	4.2

Breakout 1  
4/2/2018



Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25 year1	Lake 5A-6	BASE	49.00	13.36	0.00	182126	3.80	2.47	10.4	4.4
25 year1	Lake 5A-6	BASE	50.00	13.39	0.00	182126	3.82	2.41	10.7	4.6
25 year1	Lake 5A-6	BASE	51.00	13.42	0.00	182126	4.04	2.35	11.1	4.8
25 year1	Lake 5A-6	BASE	52.00	13.45	0.00	182126	4.22	2.31	11.4	5.0
25 year1	Lake 5A-6	BASE	53.00	13.50	0.00	182126	4.82	2.34	11.8	5.2
25 year1	Lake 5A-6	BASE	54.00	13.55	0.00	183672	5.58	2.49	12.2	5.4
25 year1	Lake 5A-6	BASE	55.00	13.62	0.00	185691	6.47	2.77	12.7	5.6
25 year1	Lake 5A-6	BASE	56.00	13.69	0.00	188042	7.46	3.18	13.3	5.9
25 year1	Lake 5A-6	BASE	57.00	13.78	0.00	190711	8.63	3.71	13.9	6.1
25 year1	Lake 5A-6	BASE	58.00	13.88	0.00	193831	10.41	4.39	14.7	6.5
25 year1	Lake 5A-6	BASE	59.00	14.01	0.00	198499	13.29	5.34	15.7	6.9
25 year1	Lake 5A-6	BASE	60.00	14.52	0.00	244574	62.95	9.75	18.9	7.5
25 year1	Lake 5A-6	BASE	61.00	14.96	0.00	296752	27.97	13.59	22.6	8.5
25 year1	Lake 5A-6	BASE	62.00	15.06	0.00	308224	16.61	14.31	24.5	9.6
25 year1	Lake 5A-6	BASE	63.00	15.09	0.00	311361	16.49	14.36	25.8	10.8
25 year1	Lake 5A-6	BASE	64.00	15.11	0.00	314428	16.48	14.40	27.2	12.0
25 year1	Lake 5A-6	BASE	65.00	15.13	0.00	316466	15.30	14.36	28.5	13.2
25 year1	Lake 5A-6	BASE	66.00	15.14	0.00	317688	15.10	14.26	29.8	14.4
25 year1	Lake 5A-6	BASE	67.00	15.15	0.00	318836	15.00	14.14	31.0	15.5
25 year1	Lake 5A-6	BASE	68.00	15.16	0.00	319989	14.87	14.01	32.2	16.7
25 year1	Lake 5A-6	BASE	69.00	15.17	0.00	320751	14.13	13.83	33.4	17.8
25 year1	Lake 5A-6	BASE	70.00	15.17	0.00	321152	13.89	13.61	34.6	19.0
25 year1	Lake 5A-6	BASE	71.00	15.17	0.00	321565	13.70	13.37	35.7	20.1
25 year1	Lake 5A-6	BASE	72.00	15.18	0.00	322022	13.48	13.12	36.9	21.2
25 year1	Lake 5A-6	BASE	73.00	15.17	0.00	321597	12.25	13.16	37.9	22.3
25 year1	Lake 5A-6	BASE	74.00	15.16	0.00	320324	12.09	13.11	38.9	23.4
25 year1	Lake 5A-6	BASE	75.00	15.15	0.00	318968	12.04	13.05	39.9	24.4
25 year1	Lake 5A-6	BASE	76.00	15.14	0.00	317597	11.97	12.99	40.9	25.5
25 year1	Lake 5A-6	BASE	77.00	15.13	0.00	316198	11.90	12.94	41.9	26.6
25 year1	Lake 5A-6	BASE	78.00	15.11	0.00	314766	11.84	12.90	42.9	27.7
25 year1	Lake 5A-6	BASE	79.00	15.10	0.00	313304	11.78	12.85	43.9	28.7
25 year1	Lake 5A-6	BASE	80.00	15.09	0.00	311817	11.72	12.81	44.8	29.8
25 year1	Lake 5A-6	BASE	81.00	15.08	0.00	310310	11.66	12.76	45.8	30.8
25 year1	Lake 5A-6	BASE	82.00	15.06	0.00	308785	11.61	12.71	46.8	31.9
25 year1	Lake 5A-6	BASE	83.00	15.05	0.00	307246	11.55	12.65	47.7	32.9
25 year1	Lake 5A-6	BASE	84.00	15.04	0.00	305691	11.49	12.60	48.7	34.0
25 year1	Lake 5A-6	BASE	85.00	15.03	0.00	304125	11.43	12.54	49.6	35.0
25 year1	Lake 5A-6	BASE	86.00	15.01	0.00	302547	11.37	12.48	50.6	36.1
25 year1	Lake 5A-6	BASE	87.00	15.00	0.00	300960	11.31	12.42	51.5	37.1
25 year1	Lake 5A-6	BASE	88.00	14.99	0.00	299374	11.25	12.36	52.4	38.1
25 year1	Lake 5A-6	BASE	89.00	14.97	0.00	297781	11.19	12.30	53.4	39.1
25 year1	Lake 5A-6	BASE	90.00	14.96	0.00	296177	11.12	12.24	54.3	40.1
25 year1	Lake 5A-6	BASE	91.00	14.95	0.00	294565	11.06	12.18	55.2	41.2
25 year1	Lake 5A-6	BASE	92.00	14.93	0.00	292943	11.00	12.11	56.1	42.2
25 year1	Lake 5A-6	BASE	93.00	14.92	0.00	291314	10.93	12.05	57.0	43.2
25 year1	Lake 5A-6	BASE	94.00	14.90	0.00	289677	10.87	11.98	57.9	44.1
25 year1	Lake 5A-6	BASE	95.00	14.89	0.00	288031	10.80	11.92	58.8	45.1
25 year1	Lake 5A-6	BASE	96.00	14.88	0.00	286379	10.74	11.85	59.7	46.1
25 year1	Lake 5A-6	BASE	97.00	14.86	0.00	284718	10.67	11.78	60.6	47.1

Peak\*

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Breakout 1  
4/2/2018

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25 year1	Lake 5A-6	BASE	98.00	14.85	0.00	283049	10.61	11.72	61.5	48.1
25 year1	Lake 5A-6	BASE	99.00	14.83	0.00	281372	10.54	11.65	62.3	49.0
25 year1	Lake 5A-6	BASE	100.00	14.82	0.00	279687	10.47	11.58	63.2	50.0
25 year1	Lake 5A-6	BASE	101.00	14.81	0.00	277994	10.40	11.51	64.1	50.9
25 year1	Lake 5A-6	BASE	102.00	14.79	0.00	276292	10.33	11.43	64.9	51.9
25 year1	Lake 5A-6	BASE	103.00	14.78	0.00	274583	10.26	11.36	65.8	52.8
25 year1	Lake 5A-6	BASE	104.00	14.76	0.00	272864	10.19	11.29	66.6	53.8
25 year1	Lake 5A-6	BASE	105.00	14.75	0.00	271138	10.12	11.22	67.5	54.7
25 year1	Lake 5A-6	BASE	106.00	14.73	0.00	269402	10.04	11.14	68.3	55.6
25 year1	Lake 5A-6	BASE	107.00	14.72	0.00	267658	9.97	11.07	69.1	56.5
25 year1	Lake 5A-6	BASE	108.00	14.70	0.00	265904	9.89	10.99	69.9	57.5
25 year1	Lake 5A-6	BASE	109.00	14.69	0.00	264141	9.82	10.91	70.7	58.4
25 year1	Lake 5A-6	BASE	110.00	14.67	0.00	262368	9.74	10.83	71.6	59.3
25 year1	Lake 5A-6	BASE	111.00	14.66	0.00	260585	9.66	10.76	72.4	60.1
25 year1	Lake 5A-6	BASE	112.00	14.64	0.00	258793	9.59	10.68	73.2	61.0
25 year1	Lake 5A-6	BASE	113.00	14.63	0.00	256990	9.51	10.60	73.9	61.9
25 year1	Lake 5A-6	BASE	114.00	14.61	0.00	255176	9.43	10.52	74.7	62.8
25 year1	Lake 5A-6	BASE	115.00	14.60	0.00	253352	9.35	10.43	75.5	63.6
25 year1	Lake 5A-6	BASE	116.00	14.58	0.00	251517	9.27	10.35	76.3	64.5
25 year1	Lake 5A-6	BASE	117.00	14.57	0.00	249670	9.18	10.27	77.0	65.4
25 year1	Lake 5A-6	BASE	118.00	14.55	0.00	247811	9.10	10.18	77.8	66.2
25 year1	Lake 5A-6	BASE	119.00	14.53	0.00	245940	9.02	10.10	78.5	67.0
25 year1	Lake 5A-6	BASE	120.00	14.52	0.00	244056	8.93	10.01	79.3	67.9
25 year1	Lake 5A-6	BASE	121.00	14.50	0.00	242159	8.84	9.92	80.0	68.7
25 year1	Lake 5A-6	BASE	122.00	14.49	0.00	240638	8.76	9.84	80.7	69.5
25 year1	Lake 5A-6	BASE	123.00	14.47	0.00	239197	8.67	9.75	81.5	70.3
25 year1	Lake 5A-6	BASE	124.00	14.45	0.00	237749	8.58	9.66	82.2	71.1
25 year1	Lake 5A-6	BASE	125.00	14.44	0.00	236293	8.49	9.57	82.9	71.9
25 year1	Lake 5A-6	BASE	126.00	14.42	0.00	234829	8.40	9.48	83.6	72.7
25 year1	Lake 5A-6	BASE	127.00	14.40	0.00	233358	8.31	9.39	84.3	73.5
25 year1	Lake 5A-6	BASE	128.00	14.39	0.00	231880	8.22	9.29	85.0	74.3
25 year1	Lake 5A-6	BASE	129.00	14.37	0.00	230395	8.13	9.20	85.6	75.0
25 year1	Lake 5A-6	BASE	130.00	14.35	0.00	228903	8.04	9.11	86.3	75.8
25 year1	Lake 5A-6	BASE	131.00	14.34	0.00	227403	7.94	9.01	87.0	76.5
25 year1	Lake 5A-6	BASE	132.00	14.32	0.00	225896	7.85	8.92	87.6	77.3
25 year1	Lake 5A-6	BASE	133.00	14.30	0.00	224382	7.76	8.82	88.3	78.0
25 year1	Lake 5A-6	BASE	134.00	14.29	0.00	222861	7.66	8.72	88.9	78.7
25 year1	Lake 5A-6	BASE	135.00	14.27	0.00	221334	7.56	8.62	89.5	79.4
25 year1	Lake 5A-6	BASE	136.00	14.25	0.00	219800	7.47	8.52	90.1	80.2
25 year1	Lake 5A-6	BASE	137.00	14.24	0.00	218258	7.37	8.42	90.8	80.9
25 year1	Lake 5A-6	BASE	138.00	14.22	0.00	216708	7.27	8.32	91.4	81.5
25 year1	Lake 5A-6	BASE	139.00	14.20	0.00	215148	7.16	8.22	92.0	82.2
25 year1	Lake 5A-6	BASE	140.00	14.18	0.00	213577	7.06	8.11	92.5	82.9
25 year1	Lake 5A-6	BASE	141.00	14.16	0.00	212000	6.96	8.01	93.1	83.6
25 year1	Lake 5A-6	BASE	142.00	14.15	0.00	210412	6.86	7.91	93.7	84.2
25 year1	Lake 5A-6	BASE	143.00	14.13	0.00	208814	6.76	7.80	94.3	84.9
25 year1	Lake 5A-6	BASE	144.00	14.11	0.00	207209	6.66	7.70	94.8	85.5
25 year1	Lake 5A-6	BASE	145.00	14.09	0.00	205583	6.56	7.59	95.4	86.1
25 year1	Lake 5A-6	BASE	146.00	14.07	0.00	203950	6.42	7.48	95.9	86.8

Breakout 1  
4/2/2018

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25 year1	Lake 5A-6	BASE	147.00	14.06	0.00	202307	6.35	7.38	96.4	87.4
25 year1	Lake 5A-6	BASE	148.00	14.04	0.00	200640	6.22	7.27	96.9	88.0
25 year1	Lake 5A-6	BASE	149.00	14.02	0.00	199012	6.10	7.16	97.4	88.6
25 year1	Lake 5A-6	BASE	150.00	14.00	0.00	197356	6.06	7.05	97.9	89.2
25 year1	Lake 5A-6	BASE	151.00	13.98	0.00	196776	5.96	6.94	98.4	89.8
25 year1	Lake 5A-6	BASE	152.00	13.96	0.00	196199	5.83	6.83	98.9	90.3
25 year1	Lake 5A-6	BASE	153.00	13.94	0.00	195625	5.68	6.73	99.4	90.9
25 year1	Lake 5A-6	BASE	154.00	13.92	0.00	195057	5.56	6.62	99.9	91.4
25 year1	Lake 5A-6	BASE	155.00	13.91	0.00	194495	5.46	6.52	100.3	92.0
25 year1	Lake 5A-6	BASE	156.00	13.89	0.00	193938	5.44	6.42	100.8	92.5
25 year1	Lake 5A-6	BASE	157.00	13.87	0.00	193381	5.32	6.31	101.2	93.0
25 year1	Lake 5A-6	BASE	158.00	13.85	0.00	192834	5.31	6.22	101.7	93.6
25 year1	Lake 5A-6	BASE	159.00	13.83	0.00	192297	5.15	6.12	102.1	94.1
25 year1	Lake 5A-6	BASE	160.00	13.82	0.00	191757	5.06	6.02	102.5	94.6
25 year1	Lake 5A-6	BASE	161.00	13.80	0.00	191225	4.99	5.93	102.9	95.1
25 year1	Lake 5A-6	BASE	162.00	13.78	0.00	190698	4.94	5.84	103.3	95.5
25 year1	Lake 5A-6	BASE	163.00	13.76	0.00	190180	4.91	5.75	103.8	96.0
25 year1	Lake 5A-6	BASE	164.00	13.75	0.00	189666	4.77	5.66	104.2	96.5
25 year1	Lake 5A-6	BASE	165.00	13.73	0.00	189155	4.67	5.57	104.5	97.0
25 year1	Lake 5A-6	BASE	166.00	13.71	0.00	188651	4.64	5.49	104.9	97.4
25 year1	Lake 5A-6	BASE	167.00	13.70	0.00	188151	4.56	5.40	105.3	97.9
25 year1	Lake 5A-6	BASE	168.00	13.68	0.00	187657	4.44	5.32	105.7	98.3
25 year1	Lake 5A-6	BASE	169.00	13.67	0.00	187166	4.48	5.24	106.0	98.7
25 year1	Lake 5A-6	BASE	170.00	13.65	0.00	186682	4.35	5.16	106.4	99.2
25 year1	Lake 5A-6	BASE	171.00	13.63	0.00	186203	4.22	5.08	106.8	99.6
25 year1	Lake 5A-6	BASE	172.00	13.62	0.00	185721	4.20	5.00	107.1	100.0
25 year1	Lake 5A-6	BASE	173.00	13.60	0.00	185250	4.13	4.92	107.5	100.4
25 year1	Lake 5A-6	BASE	174.00	13.59	0.00	184784	4.07	4.85	107.8	100.8
25 year1	Lake 5A-6	BASE	175.00	13.57	0.00	184323	4.00	4.77	108.1	101.2
25 year1	Lake 5A-6	BASE	176.00	13.56	0.00	183867	3.94	4.70	108.5	101.6
25 year1	Lake 5A-6	BASE	177.00	13.54	0.00	183416	3.88	4.63	108.8	102.0
25 year1	Lake 5A-6	BASE	178.00	13.53	0.00	182970	3.82	4.56	109.1	102.4
25 year1	Lake 5A-6	BASE	179.00	13.51	0.00	182528	3.76	4.49	109.4	102.8
25 year1	Lake 5A-6	BASE	180.00	13.50	0.00	182126	3.70	4.42	109.7	103.1
25 year1	Lake 5A-6	BASE	181.00	13.48	0.00	182126	3.64	4.36	110.0	103.5
25 year1	Lake 5A-6	BASE	182.00	13.47	0.00	182126	3.59	4.29	110.3	103.8
25 year1	Lake 5A-6	BASE	183.00	13.46	0.00	182126	3.53	4.23	110.6	104.2
25 year1	Lake 5A-6	BASE	184.00	13.44	0.00	182126	3.48	4.16	110.9	104.5
25 year1	Lake 5A-6	BASE	185.00	13.43	0.00	182126	3.43	4.10	111.2	104.9
25 year1	Lake 5A-6	BASE	186.00	13.42	0.00	182126	3.38	4.04	111.5	105.2
25 year1	Lake 5A-6	BASE	187.00	13.40	0.00	182126	3.33	3.98	111.8	105.6
25 year1	Lake 5A-6	BASE	188.00	13.39	0.00	182126	3.28	3.92	112.0	105.9
25 year1	Lake 5A-6	BASE	189.00	13.38	0.00	182126	3.23	3.87	112.3	106.2
25 year1	Lake 5A-6	BASE	190.00	13.37	0.00	182126	3.18	3.81	112.6	106.5
25 year1	Lake 5A-6	BASE	191.00	13.35	0.00	182126	3.14	3.76	112.8	106.8
25 year1	Lake 5A-6	BASE	192.00	13.34	0.00	182126	3.09	3.70	113.1	107.1
25 year1	Lake 5A-6	BASE	193.00	13.33	0.00	182126	3.05	3.65	113.3	107.4
25 year1	Lake 5A-6	BASE	194.00	13.32	0.00	182126	3.00	3.60	113.6	107.7
25 year1	Lake 5A-6	BASE	195.00	13.31	0.00	182126	2.96	3.54	113.8	108.0

Breakout 1  
4/2/2018

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25 year1	Lake 5A-6	BASE	196.00	13.29	0.00	182126	2.92	3.49	114.1	108.3
25 year1	Lake 5A-6	BASE	197.00	13.28	0.00	182126	2.87	3.44	114.3	108.6
25 year1	Lake 5A-6	BASE	198.00	13.27	0.00	182126	2.83	3.39	114.5	108.9
25 year1	Lake 5A-6	BASE	199.00	13.26	0.00	182126	2.79	3.34	114.8	109.2
25 year1	Lake 5A-6	BASE	200.00	13.25	0.00	182126	2.75	3.30	115.0	109.5
25 year1	Lake 5A-6	BASE	201.00	13.24	0.00	182126	2.70	3.24	115.2	109.7
25 year1	Lake 5A-6	BASE	202.00	13.23	0.00	182126	2.66	3.18	115.5	110.0
25 year1	Lake 5A-6	BASE	203.00	13.22	0.00	182126	2.61	3.12	115.7	110.2
25 year1	Lake 5A-6	BASE	204.00	13.21	0.00	182126	2.56	3.07	115.9	110.5
25 year1	Lake 5A-6	BASE	205.00	13.20	0.00	182126	2.52	3.02	116.1	110.8
25 year1	Lake 5A-6	BASE	206.00	13.19	0.00	182126	2.47	2.96	116.3	111.0
25 year1	Lake 5A-6	BASE	207.00	13.18	0.00	182126	2.43	2.91	116.5	111.2
25 year1	Lake 5A-6	BASE	208.00	13.17	0.00	182126	2.39	2.86	116.7	111.5
25 year1	Lake 5A-6	BASE	209.00	13.16	0.00	182126	2.35	2.81	116.9	111.7
25 year1	Lake 5A-6	BASE	210.00	13.15	0.00	182126	2.31	2.77	117.1	111.9
25 year1	Lake 5A-6	BASE	211.00	13.14	0.00	182126	2.27	2.72	117.3	112.2
25 year1	Lake 5A-6	BASE	212.00	13.13	0.00	182126	2.23	2.67	117.5	112.4
25 year1	Lake 5A-6	BASE	213.00	13.13	0.00	182126	2.19	2.63	117.6	112.6
25 year1	Lake 5A-6	BASE	214.00	13.12	0.00	182126	2.16	2.59	117.8	112.8
25 year1	Lake 5A-6	BASE	215.00	13.11	0.00	182126	2.12	2.54	118.0	113.0
25 year1	Lake 5A-6	BASE	216.00	13.10	0.00	182126	2.09	2.50	118.2	113.3
25 year1	Lake 5A-6	BASE	217.00	13.09	0.00	182126	2.05	2.46	118.3	113.5
25 year1	Lake 5A-6	BASE	218.00	13.08	0.00	182126	2.02	2.42	118.5	113.7
25 year1	Lake 5A-6	BASE	219.00	13.08	0.00	182126	1.99	2.38	118.7	113.9
25 year1	Lake 5A-6	BASE	220.00	13.07	0.00	182126	1.95	2.34	118.8	114.1
25 year1	Lake 5A-6	BASE	221.00	13.06	0.00	182126	1.92	2.31	119.0	114.2
25 year1	Lake 5A-6	BASE	222.00	13.05	0.00	182126	1.89	2.27	119.2	114.4
25 year1	Lake 5A-6	BASE	223.00	13.05	0.00	182126	1.86	2.23	119.3	114.6
25 year1	Lake 5A-6	BASE	224.00	13.04	0.00	182126	1.83	2.20	119.5	114.8
25 year1	Lake 5A-6	BASE	225.00	13.03	0.00	182126	1.80	2.16	119.6	115.0
25 year1	Lake 5A-6	BASE	226.00	13.02	0.00	182126	1.77	2.13	119.8	115.2
25 year1	Lake 5A-6	BASE	227.00	13.02	0.00	182126	1.75	2.10	119.9	115.3
25 year1	Lake 5A-6	BASE	228.00	13.01	0.00	182126	1.72	2.06	120.1	115.5
25 year1	Lake 5A-6	BASE	229.00	13.00	0.00	182126	1.69	2.03	120.2	115.7
25 year1	Lake 5A-6	BASE	230.00	13.00	0.00	182126	1.67	2.00	120.3	115.8
25 year1	Lake 5A-6	BASE	231.00	12.99	0.00	182126	1.64	1.97	120.5	116.0
25 year1	Lake 5A-6	BASE	232.00	12.98	0.00	182126	1.61	1.94	120.6	116.2
25 year1	Lake 5A-6	BASE	233.00	12.98	0.00	182126	1.59	1.91	120.7	116.3
25 year1	Lake 5A-6	BASE	234.00	12.97	0.00	182126	1.56	1.88	120.9	116.5
25 year1	Lake 5A-6	BASE	235.00	12.96	0.00	182126	1.53	1.85	121.0	116.6
25 year1	Lake 5A-6	BASE	236.00	12.96	0.00	182126	1.51	1.83	121.1	116.8
25 year1	Lake 5A-6	BASE	237.00	12.95	0.00	182126	1.49	1.80	121.2	116.9
25 year1	Lake 5A-6	BASE	238.00	12.95	0.00	182126	1.46	1.77	121.4	117.1
25 year1	Lake 5A-6	BASE	239.00	12.94	0.00	182126	1.44	1.74	121.5	117.2
25 year1	Lake 5A-6	BASE	240.00	12.93	0.00	182126	1.42	1.71	121.6	117.4
25 year1	Lake 5A-6	BASE	241.00	12.93	0.00	182126	1.39	1.69	121.7	117.5
25 year1	Lake 5A-6	BASE	242.00	12.92	0.00	182126	1.37	1.66	121.8	117.7
25 year1	Lake 5A-6	BASE	243.00	12.92	0.00	182126	1.35	1.63	122.0	117.8
25 year1	Lake 5A-6	BASE	244.00	12.91	0.00	182126	1.32	1.61	122.1	117.9

Breakout 1  
4/2/2018

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25 year1	Lake 5A-6	BASE	245.00	12.91	0.00	182126	1.30	1.58	122.2	118.1
25 year1	Lake 5A-6	BASE	246.00	12.90	0.00	182126	1.28	1.56	122.3	118.2
25 year1	Lake 5A-6	BASE	247.00	12.90	0.00	182126	1.26	1.53	122.4	118.3
25 year1	Lake 5A-6	BASE	248.00	12.89	0.00	182126	1.24	1.51	122.5	118.4
25 year1	Lake 5A-6	BASE	249.00	12.88	0.00	182126	1.22	1.48	122.6	118.6
25 year1	Lake 5A-6	BASE	250.00	12.88	0.00	182126	1.20	1.46	122.7	118.7
25 year1	Lake 5A-6	BASE	251.00	12.87	0.00	182126	1.18	1.44	122.8	118.8
25 year1	Lake 5A-6	BASE	252.00	12.87	0.00	182126	1.16	1.42	122.9	118.9
25 year1	Lake 5A-6	BASE	253.00	12.86	0.00	182126	1.14	1.39	123.0	119.0
25 year1	Lake 5A-6	BASE	254.00	12.86	0.00	182126	1.12	1.37	123.1	119.2
25 year1	Lake 5A-6	BASE	255.00	12.85	0.00	182126	1.10	1.35	123.2	119.3
25 year1	Lake 5A-6	BASE	256.00	12.85	0.00	182126	1.09	1.33	123.3	119.4
25 year1	Lake 5A-6	BASE	257.00	12.85	0.00	182126	1.07	1.31	123.3	119.5
25 year1	Lake 5A-6	BASE	258.00	12.84	0.00	182126	1.05	1.29	123.4	119.6
25 year1	Lake 5A-6	BASE	259.00	12.84	0.00	182126	1.03	1.27	123.5	119.7
25 year1	Lake 5A-6	BASE	260.00	12.83	0.00	182126	1.02	1.25	123.6	119.8
25 year1	Lake 5A-6	BASE	261.00	12.83	0.00	182126	1.00	1.23	123.7	119.9
25 year1	Lake 5A-6	BASE	262.00	12.82	0.00	182126	0.99	1.21	123.8	120.0
25 year1	Lake 5A-6	BASE	263.00	12.82	0.00	182126	0.97	1.19	123.8	120.1
25 year1	Lake 5A-6	BASE	264.00	12.81	0.00	182126	0.95	1.17	123.9	120.2
25 year1	Lake 5A-6	BASE	265.00	12.81	0.00	182126	0.94	1.16	124.0	120.3
25 year1	Lake 5A-6	BASE	266.00	12.81	0.00	182126	0.92	1.14	124.1	120.4
25 year1	Lake 5A-6	BASE	267.00	12.80	0.00	182126	0.91	1.12	124.2	120.5
25 year1	Lake 5A-6	BASE	268.00	12.80	0.00	182126	0.90	1.11	124.2	120.6
25 year1	Lake 5A-6	BASE	269.00	12.79	0.00	182126	0.88	1.09	124.3	120.7
25 year1	Lake 5A-6	BASE	270.00	12.79	0.00	182126	0.87	1.07	124.4	120.8
25 year1	Lake 5A-6	BASE	271.00	12.78	0.00	182126	0.85	1.06	124.4	120.8
25 year1	Lake 5A-6	BASE	272.00	12.78	0.00	182126	0.84	1.04	124.5	120.9
25 year1	Lake 5A-6	BASE	273.00	12.78	0.00	182126	0.83	1.02	124.6	121.0
25 year1	Lake 5A-6	BASE	274.00	12.77	0.00	182126	0.81	1.01	124.7	121.1
25 year1	Lake 5A-6	BASE	275.00	12.77	0.00	182126	0.80	0.99	124.7	121.2
25 year1	Lake 5A-6	BASE	276.00	12.77	0.00	182126	0.79	0.98	124.8	121.3
25 year1	Lake 5A-6	BASE	277.00	12.76	0.00	182126	0.78	0.97	124.9	121.3
25 year1	Lake 5A-6	BASE	278.00	12.76	0.00	182126	0.77	0.95	124.9	121.4
25 year1	Lake 5A-6	BASE	279.00	12.75	0.00	182126	0.75	0.94	125.0	121.5
25 year1	Lake 5A-6	BASE	280.00	12.75	0.00	182126	0.74	0.92	125.0	121.6
25 year1	Lake 5A-6	BASE	281.00	12.75	0.00	182126	0.73	0.91	125.1	121.7
25 year1	Lake 5A-6	BASE	282.00	12.74	0.00	182126	0.72	0.90	125.2	121.7
25 year1	Lake 5A-6	BASE	283.00	12.74	0.00	182126	0.71	0.88	125.2	121.8
25 year1	Lake 5A-6	BASE	284.00	12.74	0.00	182126	0.70	0.87	125.3	121.9
25 year1	Lake 5A-6	BASE	285.00	12.73	0.00	182126	0.69	0.86	125.3	121.9
25 year1	Lake 5A-6	BASE	286.00	12.73	0.00	182126	0.68	0.85	125.4	122.0
25 year1	Lake 5A-6	BASE	287.00	12.73	0.00	182126	0.67	0.83	125.4	122.1
25 year1	Lake 5A-6	BASE	288.00	12.72	0.00	182126	0.66	0.82	125.5	122.2
25 year1	Lake 5A-6	BASE	289.00	12.72	0.00	182126	0.65	0.81	125.6	122.2
25 year1	Lake 5A-6	BASE	290.00	12.72	0.00	182126	0.64	0.80	125.6	122.3
25 year1	Lake 5A-6	BASE	291.00	12.71	0.00	182126	0.63	0.79	125.7	122.4
25 year1	Lake 5A-6	BASE	292.00	12.71	0.00	182126	0.62	0.78	125.7	122.4
25 year1	Lake 5A-6	BASE	293.00	12.71	0.00	182126	0.61	0.77	125.8	122.5

Breakout 1  
4/2/2018

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25 year1	Lake 5A-6	BASE	294.00	12.71	0.00	182126	0.60	0.75	125.8	122.5
25 year1	Lake 5A-6	BASE	295.00	12.70	0.00	182126	0.59	0.74	125.9	122.6
25 year1	Lake 5A-6	BASE	296.00	12.70	0.00	182126	0.58	0.73	125.9	122.7
25 year1	Lake 5A-6	BASE	297.00	12.70	0.00	182126	0.57	0.72	126.0	122.7
25 year1	Lake 5A-6	BASE	298.00	12.69	0.00	182126	0.57	0.71	126.0	122.8
25 year1	Lake 5A-6	BASE	299.00	12.69	0.00	182126	0.56	0.70	126.1	122.9
25 year1	Lake 5A-6	BASE	300.00	12.69	0.00	182126	0.55	0.69	126.1	122.9
25 year1	Lake 5A-6	BASE	301.00	12.69	0.00	182126	0.54	0.68	126.1	123.0
25 year1	Lake 5A-6	BASE	302.00	12.68	0.00	182126	0.53	0.67	126.2	123.0
25 year1	Lake 5A-6	BASE	303.00	12.68	0.00	182126	0.53	0.67	126.2	123.1
25 year1	Lake 5A-6	BASE	304.00	12.68	0.00	182126	0.52	0.66	126.3	123.1
25 year1	Lake 5A-6	BASE	305.00	12.67	0.00	182126	0.51	0.65	126.3	123.2
25 year1	Lake 5A-6	BASE	306.00	12.67	0.00	182126	0.50	0.64	126.4	123.2
25 year1	Lake 5A-6	BASE	307.00	12.67	0.00	182126	0.50	0.63	126.4	123.3
25 year1	Lake 5A-6	BASE	308.00	12.67	0.00	182126	0.49	0.62	126.4	123.3
25 year1	Lake 5A-6	BASE	309.00	12.66	0.00	182126	0.48	0.61	126.5	123.4
25 year1	Lake 5A-6	BASE	310.00	12.66	0.00	182126	0.48	0.60	126.5	123.4
25 year1	Lake 5A-6	BASE	311.00	12.66	0.00	182126	0.47	0.60	126.6	123.5
25 year1	Lake 5A-6	BASE	312.00	12.66	0.00	182126	0.46	0.59	126.6	123.5
25 year1	Lake 5A-6	BASE	313.00	12.65	0.00	182126	0.46	0.58	126.6	123.6
25 year1	Lake 5A-6	BASE	314.00	12.65	0.00	182126	0.45	0.57	126.7	123.6
25 year1	Lake 5A-6	BASE	315.00	12.65	0.00	182126	0.44	0.57	126.7	123.7
25 year1	Lake 5A-6	BASE	316.00	12.65	0.00	182126	0.44	0.56	126.7	123.7
25 year1	Lake 5A-6	BASE	317.00	12.65	0.00	182126	0.43	0.55	126.8	123.8
25 year1	Lake 5A-6	BASE	318.00	12.64	0.00	182126	0.43	0.54	126.8	123.8
25 year1	Lake 5A-6	BASE	319.00	12.64	0.00	182126	0.42	0.54	126.9	123.9
25 year1	Lake 5A-6	BASE	320.00	12.64	0.00	182126	0.41	0.53	126.9	123.9
25 year1	Lake 5A-6	BASE	321.00	12.64	0.00	182126	0.41	0.52	126.9	124.0
25 year1	Lake 5A-6	BASE	322.00	12.63	0.00	182126	0.40	0.51	127.0	124.0
25 year1	Lake 5A-6	BASE	323.00	12.63	0.00	182126	0.40	0.51	127.0	124.0
25 year1	Lake 5A-6	BASE	324.00	12.63	0.00	182126	0.39	0.50	127.0	124.1
25 year1	Lake 5A-6	BASE	325.00	12.63	0.00	182126	0.39	0.50	127.1	124.1
25 year1	Lake 5A-6	BASE	326.00	12.63	0.00	182126	0.38	0.49	127.1	124.2
25 year1	Lake 5A-6	BASE	327.00	12.62	0.00	182126	0.38	0.48	127.1	124.2
25 year1	Lake 5A-6	BASE	328.00	12.62	0.00	182126	0.37	0.48	127.1	124.2
25 year1	Lake 5A-6	BASE	329.00	12.62	0.00	182126	0.37	0.47	127.2	124.3
25 year1	Lake 5A-6	BASE	330.00	12.62	0.00	182126	0.36	0.46	127.2	124.3
25 year1	Lake 5A-6	BASE	331.00	12.62	0.00	182126	0.36	0.46	127.2	124.4
25 year1	Lake 5A-6	BASE	332.00	12.61	0.00	182126	0.35	0.45	127.3	124.4
25 year1	Lake 5A-6	BASE	333.00	12.61	0.00	182126	0.35	0.45	127.3	124.4
25 year1	Lake 5A-6	BASE	334.00	12.61	0.00	182126	0.35	0.44	127.3	124.5
25 year1	Lake 5A-6	BASE	335.00	12.61	0.00	182126	0.24	0.44	127.3	124.5
25 year1	Lake 5A-6	BASE	336.00	12.61	0.00	182126	0.34	0.43	127.4	124.5
25 year1	Lake 5A-6	BASE	337.00	12.61	0.00	182126	0.34	0.42	127.4	124.6
25 year1	Lake 5A-6	BASE	338.00	12.60	0.00	182126	0.33	0.42	127.4	124.6
25 year1	Lake 5A-6	BASE	339.00	12.60	0.00	182126	0.33	0.41	127.5	124.6
25 year1	Lake 5A-6	BASE	340.00	12.60	0.00	182126	0.23	0.41	127.5	124.7
25 year1	Lake 5A-6	BASE	341.00	12.60	0.00	182126	0.22	0.40	127.5	124.7
25 year1	Lake 5A-6	BASE	342.00	12.60	0.00	182126	0.32	0.40	127.5	124.7

Breakout 1  
4/2/2018

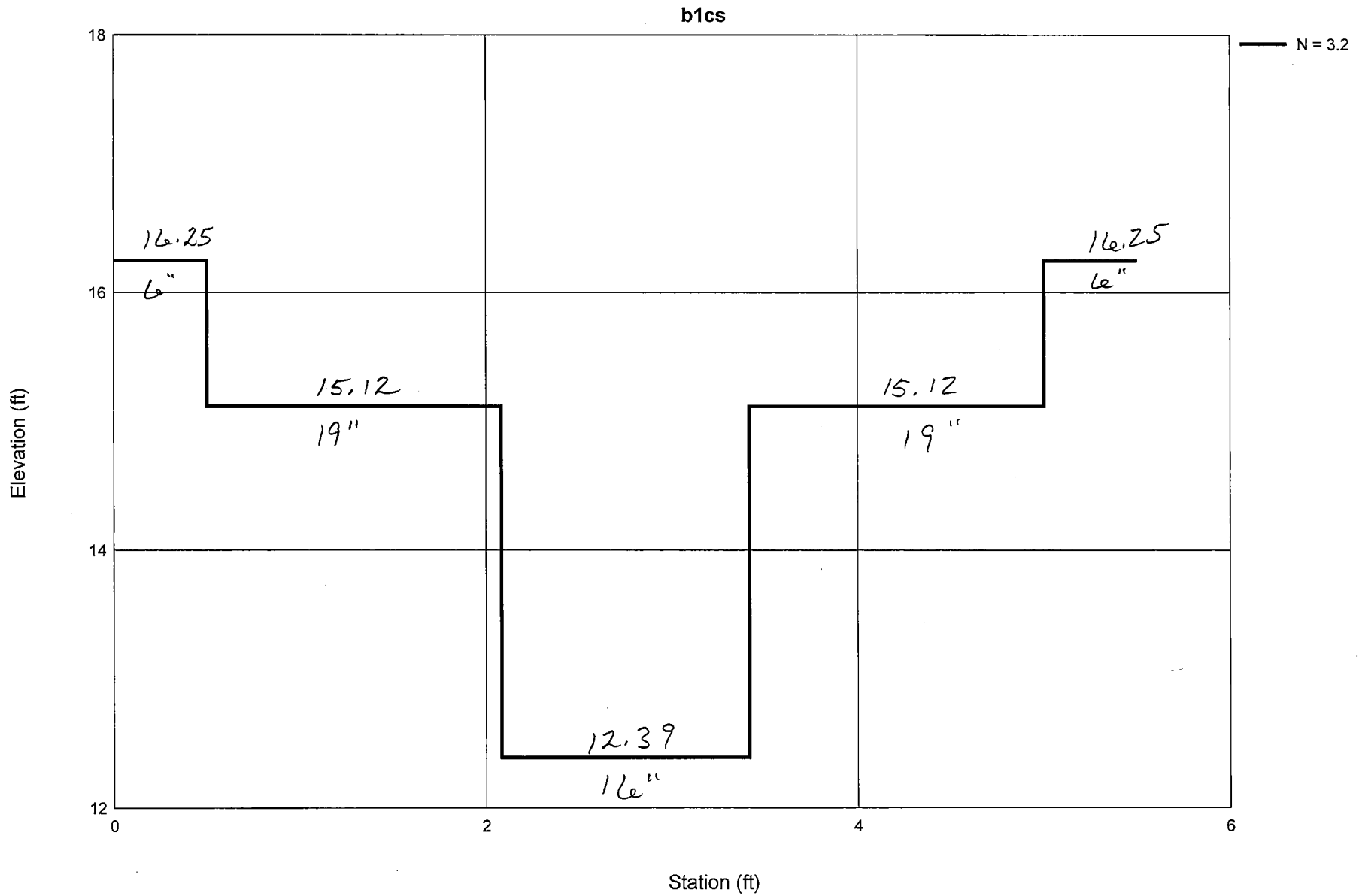
Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25 year1	Lake 5A-6	BASE	343.00	12.59	0.00	182126	0.22	0.39	127.5	124.8
25 year1	Lake 5A-6	BASE	344.00	12.59	0.00	182126	0.32	0.39	127.6	124.8
25 year1	Lake 5A-6	BASE	345.00	12.59	0.00	182126	0.21	0.38	127.6	124.8
25 year1	Lake 5A-6	BASE	346.00	12.59	0.00	182126	0.31	0.38	127.6	124.9
25 year1	Lake 5A-6	BASE	347.00	12.59	0.00	182126	0.31	0.38	127.6	124.9
25 year1	Lake 5A-6	BASE	348.00	12.59	0.00	182126	0.20	0.37	127.7	124.9
25 year1	Lake 5A-6	BASE	349.00	12.58	0.00	182126	0.30	0.37	127.7	125.0
25 year1	Lake 5A-6	BASE	350.00	12.58	0.00	182126	0.30	0.36	127.7	125.0
25 year1	Lake 5A-6	BASE	351.00	12.58	0.00	182126	0.20	0.36	127.7	125.0
25 year1	Lake 5A-6	BASE	352.00	12.58	0.00	182126	0.30	0.35	127.7	125.1
25 year1	Lake 5A-6	BASE	353.00	12.58	0.00	182126	0.29	0.35	127.8	125.1
25 year1	Lake 5A-6	BASE	354.00	12.58	0.00	182126	0.29	0.34	127.8	125.1
25 year1	Lake 5A-6	BASE	355.00	12.58	0.00	182126	0.29	0.34	127.8	125.1
25 year1	Lake 5A-6	BASE	356.00	12.57	0.00	182126	0.29	0.34	127.8	125.2
25 year1	Lake 5A-6	BASE	357.00	12.57	0.00	182126	0.28	0.33	127.9	125.2
25 year1	Lake 5A-6	BASE	358.00	12.57	0.00	182126	0.18	0.33	127.9	125.2
25 year1	Lake 5A-6	BASE	359.00	12.57	0.00	182126	0.28	0.33	127.9	125.3
25 year1	Lake 5A-6	BASE	360.00	12.57	0.00	182126	0.28	0.32	127.9	125.3

Breakout 1  
4/2/2018

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
F.S. BASIN	BASE	005Y24H	96.99	14.83	0.00	0.0003	326700	12.00	41.11	12.04	32.44
HERTZ GHQ BASIN	BASE	005Y24H	99.10	14.83	0.00	0.0003	166422	12.00	45.16	12.14	22.17
HERTZ SC BASIN	BASE	005Y24H	98.84	14.83	0.00	0.0003	179622	12.00	15.83	12.00	1.69
HERTZ UNDEV	BASE	005Y24H	99.11	14.83	0.00	0.0030	139913	12.00	19.89	12.00	19.84
JUNCTION 4-5	BASE	005Y24H	98.31	14.82	0.00	0.0075	148	15.23	10.41	14.97	7.92
LAKE 5A-1	BASE	005Y24H	96.48	14.83	0.00	0.0002	491800	12.00	39.98	27.55	1.40
LAKE 5A-2	BASE	005Y24H	96.48	14.83	0.00	0.0002	167727	12.00	18.93	27.56	1.97
LAKE 5A-3	BASE	005Y24H	99.12	14.83	0.00	0.0003	202708	12.00	42.76	15.58	2.38
LAKE 5A-4	BASE	005Y24H	99.14	14.83	0.00	0.0003	162855	12.04	37.32	13.37	8.81
LAKE 5A-5	BASE	005Y24H	98.86	14.83	0.00	0.0003	123769	12.00	18.10	36.79	3.06
LAKE 5A-6	BASE	005Y24H	96.49	14.83	0.00	0.0002	281242	12.01	42.27	23.02	10.72
LAKE 5A-7	BASE	005Y24H	96.99	14.83	0.00	0.0003	270917	12.02	62.84	12.83	15.54
TAILWATER	BASE	005Y24H	72.00	15.10	0.00	0.1100	0	23.02	10.72	0.00	0.00
F.S. BASIN	BASE	025Y24H	72.14	15.60	0.00	0.0004	568554	60.00	66.08	74.04	1.72
HERTZ GHQ BASIN	BASE	025Y24H	72.07	15.64	0.00	0.0004	458486	60.00	72.59	60.10	21.14
HERTZ SC BASIN	BASE	025Y24H	72.11	15.63	0.00	0.0003	256001	60.00	25.45	75.06	0.83
HERTZ UNDEV	BASE	025Y24H	72.07	15.64	0.00	-0.0058	256868	60.00	31.97	50.01	4.38
JUNCTION 4-5	BASE	025Y24H	70.93	15.63	0.00	0.0074	148	62.63	9.60	63.65	6.77
LAKE 5A-1	BASE	025Y24H	72.35	15.51	0.00	0.0003	662217	60.00	64.26	88.67	1.73
LAKE 5A-2	BASE	025Y24H	72.26	15.51	0.00	0.0004	223678	60.00	28.64	88.38	2.31
LAKE 5A-3	BASE	025Y24H	72.07	15.64	0.00	0.0004	266777	60.00	36.38	62.69	2.51
LAKE 5A-4	BASE	025Y24H	72.07	15.64	0.00	0.0004	204878	60.00	42.22	60.97	9.99
LAKE 5A-5	BASE	025Y24H	72.09	15.63	0.00	0.0004	174018	60.00	21.30	76.11	2.91
LAKE 5A-6	BASE	025Y24H	72.22	15.51	0.00	0.0004	361839	60.00	52.97	68.19	11.31
LAKE 5A-7	BASE	025Y24H	72.13	15.60	0.00	0.0004	373915	60.00	55.82	63.67	9.07
TAILWATER	BASE	025Y24H	72.00	15.10	0.00	0.1100	0	68.19	11.31	0.00	0.00

NEW MODEL 1A  
36" pipe





NEW MODEL 1A

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	0.00	12.39	0.00	51066	0.00	-0.15
025Y24H	LAKE 5A-6	BASE	0.50	12.39	0.00	51480	-0.09	-0.17
025Y24H	LAKE 5A-6	BASE	1.00	12.39	0.00	51853	0.00	-0.18
025Y24H	LAKE 5A-6	BASE	1.50	12.39	0.00	52249	0.00	-0.19
025Y24H	LAKE 5A-6	BASE	2.00	12.39	0.00	52670	0.00	-0.21
025Y24H	LAKE 5A-6	BASE	2.50	12.40	0.00	53118	-0.19	-0.22
025Y24H	LAKE 5A-6	BASE	3.00	12.40	0.00	53605	-0.20	-0.24
025Y24H	LAKE 5A-6	BASE	3.50	12.40	0.00	54367	-0.07	-0.25
025Y24H	LAKE 5A-6	BASE	4.00	12.40	0.00	55740	-0.05	-0.27
025Y24H	LAKE 5A-6	BASE	4.50	12.41	0.00	57818	-0.05	-0.28
025Y24H	LAKE 5A-6	BASE	5.00	12.42	0.00	60532	-0.04	-0.29
025Y24H	LAKE 5A-6	BASE	5.50	12.42	0.00	63755	0.09	-0.31
025Y24H	LAKE 5A-6	BASE	6.00	12.43	0.00	67361	0.11	-0.32
025Y24H	LAKE 5A-6	BASE	6.50	12.45	0.00	71249	0.13	-0.33
025Y24H	LAKE 5A-6	BASE	7.00	12.46	0.00	75337	0.16	-0.34
025Y24H	LAKE 5A-6	BASE	7.50	12.47	0.00	79562	0.19	-0.34
025Y24H	LAKE 5A-6	BASE	8.00	12.48	0.00	83878	0.21	-0.35
025Y24H	LAKE 5A-6	BASE	8.50	12.49	0.00	88249	0.24	-0.36
025Y24H	LAKE 5A-6	BASE	9.00	12.50	0.00	91870	0.26	-0.37
025Y24H	LAKE 5A-6	BASE	9.50	12.52	0.00	94117	0.29	-0.37
025Y24H	LAKE 5A-6	BASE	10.00	12.53	0.00	96409	0.31	-0.38
025Y24H	LAKE 5A-6	BASE	10.50	12.54	0.00	98735	0.33	-0.38
025Y24H	LAKE 5A-6	BASE	11.00	12.55	0.00	101085	0.35	-0.38
025Y24H	LAKE 5A-6	BASE	11.50	12.57	0.00	103452	0.38	-0.38
025Y24H	LAKE 5A-6	BASE	12.00	12.58	0.00	105830	0.40	-0.38
025Y24H	LAKE 5A-6	BASE	12.50	12.59	0.00	108212	0.42	-0.37
025Y24H	LAKE 5A-6	BASE	13.00	12.61	0.00	110592	0.44	-0.36
025Y24H	LAKE 5A-6	BASE	13.50	12.62	0.00	112966	0.47	-0.35
025Y24H	LAKE 5A-6	BASE	14.00	12.63	0.00	115328	0.50	-0.33
025Y24H	LAKE 5A-6	BASE	14.50	12.65	0.00	117673	0.53	-0.31
025Y24H	LAKE 5A-6	BASE	15.00	12.66	0.00	119996	0.57	-0.28
025Y24H	LAKE 5A-6	BASE	15.50	12.67	0.00	122293	0.62	-0.24
025Y24H	LAKE 5A-6	BASE	16.00	12.68	0.00	124559	0.67	-0.19
025Y24H	LAKE 5A-6	BASE	16.50	12.70	0.00	126789	0.73	-0.13
025Y24H	LAKE 5A-6	BASE	17.00	12.71	0.00	128978	0.79	-0.06
025Y24H	LAKE 5A-6	BASE	17.50	12.72	0.00	131122	0.87	0.02
025Y24H	LAKE 5A-6	BASE	18.00	12.73	0.00	133221	0.94	0.09
025Y24H	LAKE 5A-6	BASE	18.50	12.74	0.00	135284	1.01	0.16
025Y24H	LAKE 5A-6	BASE	19.00	12.75	0.00	137315	1.06	0.22
025Y24H	LAKE 5A-6	BASE	19.50	12.77	0.00	139317	1.12	0.27
025Y24H	LAKE 5A-6	BASE	20.00	12.78	0.00	141290	1.17	0.32
025Y24H	LAKE 5A-6	BASE	20.50	12.79	0.00	143238	1.21	0.36
025Y24H	LAKE 5A-6	BASE	21.00	12.80	0.00	145160	1.26	0.41
025Y24H	LAKE 5A-6	BASE	21.50	12.81	0.00	147057	1.30	0.45
025Y24H	LAKE 5A-6	BASE	22.00	12.82	0.00	148931	1.34	0.49
025Y24H	LAKE 5A-6	BASE	22.50	12.83	0.00	150783	1.37	0.53
025Y24H	LAKE 5A-6	BASE	23.00	12.84	0.00	152612	1.41	0.56
025Y24H	LAKE 5A-6	BASE	23.50	12.85	0.00	154419	1.45	0.60
025Y24H	LAKE 5A-6	BASE	24.00	12.86	0.00	156206	1.48	0.63
025Y24H	LAKE 5A-6	BASE	24.50	12.87	0.00	158301	1.56	0.39
025Y24H	LAKE 5A-6	BASE	25.00	12.88	0.00	160926	1.41	0.01
025Y24H	LAKE 5A-6	BASE	25.50	12.90	0.00	163893	1.14	-0.39
025Y24H	LAKE 5A-6	BASE	26.00	12.92	0.00	166999	0.92	-0.69
025Y24H	LAKE 5A-6	BASE	26.50	12.93	0.00	170157	0.71	-0.94
025Y24H	LAKE 5A-6	BASE	27.00	12.95	0.00	173342	0.53	-1.16
025Y24H	LAKE 5A-6	BASE	27.50	12.97	0.00	176548	0.36	-1.37
025Y24H	LAKE 5A-6	BASE	28.00	12.99	0.00	179771	0.19	-1.58
025Y24H	LAKE 5A-6	BASE	28.50	13.01	0.00	182083	0.03	-1.79
025Y24H	LAKE 5A-6	BASE	29.00	13.02	0.00	182084	-0.14	-1.99
025Y24H	LAKE 5A-6	BASE	29.50	13.04	0.00	182086	-0.28	-2.19
025Y24H	LAKE 5A-6	BASE	30.00	13.06	0.00	182088	-0.43	-2.40
025Y24H	LAKE 5A-6	BASE	30.50	13.08	0.00	182089	-0.63	-2.60
025Y24H	LAKE 5A-6	BASE	31.00	13.10	0.00	182091	-0.80	-2.81
025Y24H	LAKE 5A-6	BASE	31.50	13.12	0.00	182093	-0.97	-3.02
025Y24H	LAKE 5A-6	BASE	32.00	13.14	0.00	182094	-1.14	-3.23
025Y24H	LAKE 5A-6	BASE	32.50	13.16	0.00	182096	-1.32	-3.44
025Y24H	LAKE 5A-6	BASE	33.00	13.18	0.00	182098	-1.49	-3.65
025Y24H	LAKE 5A-6	BASE	33.50	13.20	0.00	182100	-1.66	-3.87
025Y24H	LAKE 5A-6	BASE	34.00	13.23	0.00	182102	-1.84	-4.09
025Y24H	LAKE 5A-6	BASE	34.50	13.25	0.00	182104	-2.02	-4.31
025Y24H	LAKE 5A-6	BASE	35.00	13.27	0.00	182106	-2.20	-4.53

NEW MODEL 1A  
36" pipe

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	35.50	13.29	0.00	182108	-2.38	-4.75
025Y24H	LAKE 5A-6	BASE	36.00	13.32	0.00	182110	-2.57	-4.97
025Y24H	LAKE 5A-6	BASE	36.50	13.34	0.00	182112	-2.74	-5.20
025Y24H	LAKE 5A-6	BASE	37.00	13.37	0.00	182114	-2.93	-5.42
025Y24H	LAKE 5A-6	BASE	37.50	13.39	0.00	182116	-3.11	-5.65
025Y24H	LAKE 5A-6	BASE	38.00	13.42	0.00	182119	-3.30	-5.88
025Y24H	LAKE 5A-6	BASE	38.50	13.44	0.00	182121	-3.59	-6.11
025Y24H	LAKE 5A-6	BASE	39.00	13.47	0.00	182123	-3.59	-6.34
025Y24H	LAKE 5A-6	BASE	39.50	13.49	0.00	182125	-3.80	-6.57
025Y24H	LAKE 5A-6	BASE	40.00	13.52	0.00	182733	-3.99	-6.80
025Y24H	LAKE 5A-6	BASE	40.50	13.55	0.00	183559	-4.17	-7.03
025Y24H	LAKE 5A-6	BASE	41.00	13.57	0.00	184392	-4.37	-7.27
025Y24H	LAKE 5A-6	BASE	41.50	13.60	0.00	185232	-4.60	-7.49
025Y24H	LAKE 5A-6	BASE	42.00	13.63	0.00	186080	-4.90	-7.71
025Y24H	LAKE 5A-6	BASE	42.50	13.66	0.00	186937	-5.01	-7.93
025Y24H	LAKE 5A-6	BASE	43.00	13.69	0.00	187794	-5.25	-8.16
025Y24H	LAKE 5A-6	BASE	43.50	13.71	0.00	188660	-5.43	-8.38
025Y24H	LAKE 5A-6	BASE	44.00	13.74	0.00	189536	-5.59	-8.60
025Y24H	LAKE 5A-6	BASE	44.50	13.77	0.00	190411	-5.76	-8.82
025Y24H	LAKE 5A-6	BASE	45.00	13.80	0.00	191297	-5.94	-9.04
025Y24H	LAKE 5A-6	BASE	45.50	13.83	0.00	192192	-6.12	-9.26
025Y24H	LAKE 5A-6	BASE	46.00	13.86	0.00	193095	-6.30	-9.49
025Y24H	LAKE 5A-6	BASE	46.50	13.89	0.00	194003	-6.48	-9.71
025Y24H	LAKE 5A-6	BASE	47.00	13.92	0.00	194918	-6.67	-9.93
025Y24H	LAKE 5A-6	BASE	47.50	13.95	0.00	195838	-6.85	-10.15
025Y24H	LAKE 5A-6	BASE	48.00	13.98	0.00	196764	-7.04	-10.37
025Y24H	LAKE 5A-6	BASE	48.50	14.01	0.00	198268	-7.00	-10.29
025Y24H	LAKE 5A-6	BASE	49.00	14.04	0.00	200904	-6.93	-10.21
025Y24H	LAKE 5A-6	BASE	49.50	14.07	0.00	203499	-6.86	-10.13
025Y24H	LAKE 5A-6	BASE	50.00	14.10	0.00	206040	-6.82	-10.05
025Y24H	LAKE 5A-6	BASE	50.50	14.13	0.00	208575	-6.62	-9.96
025Y24H	LAKE 5A-6	BASE	51.00	14.15	0.00	211133	-6.50	-9.87
025Y24H	LAKE 5A-6	BASE	51.50	14.18	0.00	213694	-6.33	-9.77
025Y24H	LAKE 5A-6	BASE	52.00	14.21	0.00	216250	-6.23	-9.66
025Y24H	LAKE 5A-6	BASE	52.50	14.24	0.00	218876	-5.83	-9.54
025Y24H	LAKE 5A-6	BASE	53.00	14.27	0.00	221615	-5.59	-9.41
025Y24H	LAKE 5A-6	BASE	53.50	14.30	0.00	224468	-5.12	-9.26
025Y24H	LAKE 5A-6	BASE	54.00	14.34	0.00	227435	-4.84	-9.08
025Y24H	LAKE 5A-6	BASE	54.50	14.37	0.00	230507	-4.33	-8.89
025Y24H	LAKE 5A-6	BASE	55.00	14.41	0.00	233689	-3.94	-8.67
025Y24H	LAKE 5A-6	BASE	55.50	14.45	0.00	236968	-3.45	-8.41
025Y24H	LAKE 5A-6	BASE	56.00	14.48	0.00	240320	-3.10	-8.13
025Y24H	LAKE 5A-6	BASE	56.50	14.52	0.00	244428	-2.44	-7.81
025Y24H	LAKE 5A-6	BASE	57.00	14.56	0.00	249125	-2.01	-7.46
025Y24H	LAKE 5A-6	BASE	57.50	14.60	0.00	253929	-1.18	-7.05
025Y24H	LAKE 5A-6	BASE	58.00	14.64	0.00	258952	-0.37	-6.57
025Y24H	LAKE 5A-6	BASE	58.50	14.69	0.00	264172	0.57	-6.02
025Y24H	LAKE 5A-6	BASE	59.00	14.74	0.00	269948	2.56	-5.32
025Y24H	LAKE 5A-6	BASE	59.50	14.80	0.00	277410	6.85	-4.22
025Y24H	LAKE 5A-6	BASE	60.00	15.00	0.00	300926	52.97	1.81
025Y24H	LAKE 5A-6	BASE	60.50	15.22	0.00	327837	35.39	7.18
025Y24H	LAKE 5A-6	BASE	61.00	15.34	0.00	341114	22.84	9.42
025Y24H	LAKE 5A-6	BASE	61.50	15.38	0.00	346821	15.31	10.31
025Y24H	LAKE 5A-6	BASE	62.00	15.40	0.00	348953	12.53	10.59
025Y24H	LAKE 5A-6	BASE	62.50	15.41	0.00	349954	11.98	10.67
025Y24H	LAKE 5A-6	BASE	63.00	15.42	0.00	350811	12.21	10.73
025Y24H	LAKE 5A-6	BASE	63.50	15.43	0.00	351903	12.92	10.83
025Y24H	LAKE 5A-6	BASE	64.00	15.44	0.00	353284	13.37	10.98
025Y24H	LAKE 5A-6	BASE	64.50	15.45	0.00	354505	12.72	11.10
025Y24H	LAKE 5A-6	BASE	65.00	15.46	0.00	355390	12.45	11.16
025Y24H	LAKE 5A-6	BASE	65.50	15.46	0.00	356128	12.35	11.20
025Y24H	LAKE 5A-6	BASE	66.00	15.47	0.00	356811	12.34	11.22
025Y24H	LAKE 5A-6	BASE	66.50	15.47	0.00	357476	12.35	11.25
025Y24H	LAKE 5A-6	BASE	67.00	15.48	0.00	358129	12.35	11.27
025Y24H	LAKE 5A-6	BASE	67.50	15.48	0.00	358770	12.35	11.29
025Y24H	LAKE 5A-6	BASE	68.00	15.49	0.00	359400	12.35	11.31
025Y24H	LAKE 5A-6	BASE	68.50	15.49	0.00	359893	11.92	11.30
025Y24H	LAKE 5A-6	BASE	69.00	15.50	0.00	360221	11.75	11.27
025Y24H	LAKE 5A-6	BASE	69.50	15.50	0.00	360493	11.66	11.23
025Y24H	LAKE 5A-6	BASE	70.00	15.50	0.00	360749	11.61	11.18
025Y24H	LAKE 5A-6	BASE	70.50	15.50	0.00	361005	11.57	11.13

NEW MODEL 1A  
36" pipe

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	71.00	15.50	0.00	361263	11.53	11.09
025Y24H	LAKE 5A-6	BASE	71.50	15.51	0.00	361523	11.48	11.04
025Y24H	LAKE 5A-6	BASE	72.00	15.51	0.00	361782	11.43	10.99
025Y24H	LAKE 5A-6	BASE	72.50	15.51	0.00	361761	10.59	11.06
025Y24H	LAKE 5A-6	BASE	73.00	15.51	0.00	361391	10.30	11.08
025Y24H	LAKE 5A-6	BASE	73.50	15.50	0.00	360900	10.19	11.07
025Y24H	LAKE 5A-6	BASE	74.00	15.50	0.00	360373	10.16	11.06
025Y24H	LAKE 5A-6	BASE	74.50	15.49	0.00	359844	10.16	11.04
025Y24H	LAKE 5A-6	BASE	75.00	15.49	0.00	359315	10.14	11.03
025Y24H	LAKE 5A-6	BASE	75.50	15.48	0.00	358784	10.12	11.01
025Y24H	LAKE 5A-6	BASE	76.00	15.48	0.00	358249	10.10	11.00
025Y24H	LAKE 5A-6	BASE	76.50	15.47	0.00	357709	10.08	10.98
025Y24H	LAKE 5A-6	BASE	77.00	15.47	0.00	357165	10.05	10.96
025Y24H	LAKE 5A-6	BASE	77.50	15.47	0.00	356617	10.03	10.94
025Y24H	LAKE 5A-6	BASE	78.00	15.46	0.00	356066	10.01	10.92
025Y24H	LAKE 5A-6	BASE	78.50	15.46	0.00	355511	9.98	10.90
025Y24H	LAKE 5A-6	BASE	79.00	15.45	0.00	354952	9.96	10.88
025Y24H	LAKE 5A-6	BASE	79.50	15.45	0.00	354390	9.93	10.86
025Y24H	LAKE 5A-6	BASE	80.00	15.44	0.00	353826	9.91	10.84
025Y24H	LAKE 5A-6	BASE	80.50	15.44	0.00	353259	9.88	10.82
025Y24H	LAKE 5A-6	BASE	81.00	15.43	0.00	352690	9.86	10.79
025Y24H	LAKE 5A-6	BASE	81.50	15.43	0.00	352119	9.83	10.77
025Y24H	LAKE 5A-6	BASE	82.00	15.42	0.00	351546	9.80	10.74
025Y24H	LAKE 5A-6	BASE	82.50	15.42	0.00	350971	9.78	10.72
025Y24H	LAKE 5A-6	BASE	83.00	15.41	0.00	350395	9.75	10.69
025Y24H	LAKE 5A-6	BASE	83.50	15.41	0.00	349817	9.72	10.66
025Y24H	LAKE 5A-6	BASE	84.00	15.40	0.00	349238	9.69	10.63
025Y24H	LAKE 5A-6	BASE	84.50	15.40	0.00	348658	9.66	10.61
025Y24H	LAKE 5A-6	BASE	85.00	15.39	0.00	348076	9.63	10.58
025Y24H	LAKE 5A-6	BASE	85.50	15.39	0.00	347493	9.61	10.55
025Y24H	LAKE 5A-6	BASE	86.00	15.38	0.00	346910	9.58	10.52
025Y24H	LAKE 5A-6	BASE	86.50	15.38	0.00	346325	9.55	10.49
025Y24H	LAKE 5A-6	BASE	87.00	15.37	0.00	345739	9.52	10.46
025Y24H	LAKE 5A-6	BASE	87.50	15.37	0.00	345153	9.49	10.43
025Y24H	LAKE 5A-6	BASE	88.00	15.36	0.00	344565	9.46	10.40
025Y24H	LAKE 5A-6	BASE	88.50	15.36	0.00	343977	9.43	10.38
025Y24H	LAKE 5A-6	BASE	89.00	15.35	0.00	343389	9.40	10.34
025Y24H	LAKE 5A-6	BASE	89.50	15.35	0.00	342801	9.37	10.31
025Y24H	LAKE 5A-6	BASE	90.00	15.34	0.00	342213	9.34	10.28
025Y24H	LAKE 5A-6	BASE	90.50	15.34	0.00	341625	9.31	10.25
025Y24H	LAKE 5A-6	BASE	91.00	15.34	0.00	341036	9.28	10.22
025Y24H	LAKE 5A-6	BASE	91.50	15.33	0.00	340447	9.25	10.19
025Y24H	LAKE 5A-6	BASE	92.00	15.33	0.00	339858	9.22	10.16
025Y24H	LAKE 5A-6	BASE	92.50	15.32	0.00	339269	9.20	10.13
025Y24H	LAKE 5A-6	BASE	93.00	15.32	0.00	338679	9.17	10.10
025Y24H	LAKE 5A-6	BASE	93.50	15.31	0.00	338089	9.14	10.07
025Y24H	LAKE 5A-6	BASE	94.00	15.31	0.00	337499	9.11	10.04
025Y24H	LAKE 5A-6	BASE	94.50	15.30	0.00	336908	9.08	10.01
025Y24H	LAKE 5A-6	BASE	95.00	15.30	0.00	336317	9.05	9.98
025Y24H	LAKE 5A-6	BASE	95.50	15.29	0.00	335726	9.02	9.95
025Y24H	LAKE 5A-6	BASE	96.00	15.29	0.00	335135	8.99	9.92
025Y24H	LAKE 5A-6	BASE	96.50	15.28	0.00	334543	8.97	9.89
025Y24H	LAKE 5A-6	BASE	97.00	15.28	0.00	333951	8.94	9.86
025Y24H	LAKE 5A-6	BASE	97.50	15.27	0.00	333359	8.91	9.83
025Y24H	LAKE 5A-6	BASE	98.00	15.27	0.00	332766	8.88	9.80
025Y24H	LAKE 5A-6	BASE	98.50	15.26	0.00	332173	8.86	9.77
025Y24H	LAKE 5A-6	BASE	99.00	15.26	0.00	331580	8.83	9.75
025Y24H	LAKE 5A-6	BASE	99.50	15.25	0.00	330987	8.81	9.72
025Y24H	LAKE 5A-6	BASE	100.00	15.25	0.00	330393	8.78	9.69
025Y24H	LAKE 5A-6	BASE	100.50	15.24	0.00	329799	8.75	9.67
025Y24H	LAKE 5A-6	BASE	101.00	15.24	0.00	329204	8.73	9.64
025Y24H	LAKE 5A-6	BASE	101.50	15.23	0.00	328609	8.70	9.61
025Y24H	LAKE 5A-6	BASE	102.00	15.23	0.00	328014	8.68	9.59
025Y24H	LAKE 5A-6	BASE	102.50	15.22	0.00	327418	8.65	9.56
025Y24H	LAKE 5A-6	BASE	103.00	15.22	0.00	326822	8.63	9.53
025Y24H	LAKE 5A-6	BASE	103.50	15.21	0.00	326226	8.60	9.51
025Y24H	LAKE 5A-6	BASE	104.00	15.21	0.00	325629	8.58	9.48
025Y24H	LAKE 5A-6	BASE	104.50	15.20	0.00	325031	8.56	9.46
025Y24H	LAKE 5A-6	BASE	105.00	15.20	0.00	324433	8.53	9.44
025Y24H	LAKE 5A-6	BASE	105.50	15.19	0.00	323834	8.51	9.41
025Y24H	LAKE 5A-6	BASE	106.00	15.19	0.00	323235	8.49	9.39

NEW MODEL 1A  
36" pipe

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	106.50	15.18	0.00	322635	8.46	9.37
025Y24H	LAKE 5A-6	BASE	107.00	15.18	0.00	322035	8.44	9.34
025Y24H	LAKE 5A-6	BASE	107.50	15.17	0.00	321433	8.42	9.32
025Y24H	LAKE 5A-6	BASE	108.00	15.17	0.00	320832	8.40	9.30
025Y24H	LAKE 5A-6	BASE	108.50	15.16	0.00	320229	8.38	9.28
025Y24H	LAKE 5A-6	BASE	109.00	15.16	0.00	319625	8.36	9.26
025Y24H	LAKE 5A-6	BASE	109.50	15.15	0.00	319021	8.34	9.24
025Y24H	LAKE 5A-6	BASE	110.00	15.15	0.00	318415	8.32	9.22
025Y24H	LAKE 5A-6	BASE	110.50	15.14	0.00	317809	8.30	9.20
025Y24H	LAKE 5A-6	BASE	111.00	15.14	0.00	317201	8.28	9.18
025Y24H	LAKE 5A-6	BASE	111.50	15.13	0.00	316592	8.27	9.16
025Y24H	LAKE 5A-6	BASE	112.00	15.13	0.00	315981	8.25	9.15
025Y24H	LAKE 5A-6	BASE	112.50	15.12	0.00	315369	8.23	9.14
025Y24H	LAKE 5A-6	BASE	113.00	15.11	0.00	314753	8.22	9.12
025Y24H	LAKE 5A-6	BASE	113.50	15.11	0.00	314137	8.21	9.11
025Y24H	LAKE 5A-6	BASE	114.00	15.10	0.00	313518	8.20	9.10
025Y24H	LAKE 5A-6	BASE	114.50	15.10	0.00	312898	8.19	9.09
025Y24H	LAKE 5A-6	BASE	115.00	15.09	0.00	312277	8.17	9.08
025Y24H	LAKE 5A-6	BASE	115.50	15.09	0.00	311654	8.16	9.06
025Y24H	LAKE 5A-6	BASE	116.00	15.08	0.00	311031	8.15	9.05
025Y24H	LAKE 5A-6	BASE	116.50	15.08	0.00	310406	8.14	9.04
025Y24H	LAKE 5A-6	BASE	117.00	15.07	0.00	309781	8.12	9.03
025Y24H	LAKE 5A-6	BASE	117.50	15.07	0.00	309154	8.11	9.01
025Y24H	LAKE 5A-6	BASE	118.00	15.06	0.00	308525	8.10	9.00
025Y24H	LAKE 5A-6	BASE	118.50	15.06	0.00	307896	8.09	8.99
025Y24H	LAKE 5A-6	BASE	119.00	15.05	0.00	307267	8.07	8.98
025Y24H	LAKE 5A-6	BASE	119.50	15.05	0.00	306636	8.06	8.96
025Y24H	LAKE 5A-6	BASE	120.00	15.04	0.00	306005	8.05	8.95
025Y24H	LAKE 5A-6	BASE	120.50	15.04	0.00	305372	8.04	8.93
025Y24H	LAKE 5A-6	BASE	121.00	15.03	0.00	304739	8.02	8.92
025Y24H	LAKE 5A-6	BASE	121.50	15.03	0.00	304105	8.01	8.91
025Y24H	LAKE 5A-6	BASE	122.00	15.02	0.00	303469	8.00	8.89
025Y24H	LAKE 5A-6	BASE	122.50	15.01	0.00	302833	7.98	8.88
025Y24H	LAKE 5A-6	BASE	123.00	15.01	0.00	302196	7.97	8.86
025Y24H	LAKE 5A-6	BASE	123.50	15.00	0.00	301558	7.95	8.85
025Y24H	LAKE 5A-6	BASE	124.00	15.00	0.00	300921	7.94	8.84
025Y24H	LAKE 5A-6	BASE	124.50	14.99	0.00	300286	7.93	8.82
025Y24H	LAKE 5A-6	BASE	125.00	14.99	0.00	299650	7.91	8.81
025Y24H	LAKE 5A-6	BASE	125.50	14.98	0.00	299013	7.90	8.79
025Y24H	LAKE 5A-6	BASE	126.00	14.98	0.00	298375	7.88	8.78
025Y24H	LAKE 5A-6	BASE	126.50	14.97	0.00	297737	7.87	8.76
025Y24H	LAKE 5A-6	BASE	127.00	14.97	0.00	297097	7.85	8.75
025Y24H	LAKE 5A-6	BASE	127.50	14.96	0.00	296455	7.84	8.73
025Y24H	LAKE 5A-6	BASE	128.00	14.96	0.00	295813	7.82	8.72
025Y24H	LAKE 5A-6	BASE	128.50	14.95	0.00	295169	7.81	8.70
025Y24H	LAKE 5A-6	BASE	129.00	14.94	0.00	294525	7.79	8.68
025Y24H	LAKE 5A-6	BASE	129.50	14.94	0.00	293879	7.78	8.67
025Y24H	LAKE 5A-6	BASE	130.00	14.93	0.00	293232	7.76	8.65
025Y24H	LAKE 5A-6	BASE	130.50	14.93	0.00	292583	7.75	8.64
025Y24H	LAKE 5A-6	BASE	131.00	14.92	0.00	291934	7.73	8.62
025Y24H	LAKE 5A-6	BASE	131.50	14.92	0.00	291283	7.71	8.60
025Y24H	LAKE 5A-6	BASE	132.00	14.91	0.00	290630	7.70	8.59
025Y24H	LAKE 5A-6	BASE	132.50	14.91	0.00	289977	7.68	8.57
025Y24H	LAKE 5A-6	BASE	133.00	14.90	0.00	289323	7.66	8.55
025Y24H	LAKE 5A-6	BASE	133.50	14.90	0.00	288667	7.65	8.54
025Y24H	LAKE 5A-6	BASE	134.00	14.89	0.00	288010	7.63	8.52
025Y24H	LAKE 5A-6	BASE	134.50	14.88	0.00	287352	7.61	8.50
025Y24H	LAKE 5A-6	BASE	135.00	14.88	0.00	286692	7.59	8.48
025Y24H	LAKE 5A-6	BASE	135.50	14.87	0.00	286032	7.58	8.46
025Y24H	LAKE 5A-6	BASE	136.00	14.87	0.00	285371	7.56	8.44
025Y24H	LAKE 5A-6	BASE	136.50	14.86	0.00	284709	7.54	8.42
025Y24H	LAKE 5A-6	BASE	137.00	14.86	0.00	284046	7.52	8.41
025Y24H	LAKE 5A-6	BASE	137.50	14.85	0.00	283381	7.50	8.39
025Y24H	LAKE 5A-6	BASE	138.00	14.85	0.00	282715	7.48	8.37
025Y24H	LAKE 5A-6	BASE	138.50	14.84	0.00	282049	7.46	8.35
025Y24H	LAKE 5A-6	BASE	139.00	14.83	0.00	281381	7.44	8.33
025Y24H	LAKE 5A-6	BASE	139.50	14.83	0.00	280711	7.42	8.31
025Y24H	LAKE 5A-6	BASE	140.00	14.82	0.00	280041	7.41	8.29
025Y24H	LAKE 5A-6	BASE	140.50	14.82	0.00	279369	7.39	8.27
025Y24H	LAKE 5A-6	BASE	141.00	14.81	0.00	278696	7.37	8.25
025Y24H	LAKE 5A-6	BASE	141.50	14.81	0.00	278021	7.35	8.23

NEW MODEL 1A  
36" pipe

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	142.00	14.80	0.00	277346	7.33	8.21
025Y24H	LAKE 5A-6	BASE	142.50	14.79	0.00	276670	7.31	8.18
025Y24H	LAKE 5A-6	BASE	143.00	14.79	0.00	275992	7.29	8.16
025Y24H	LAKE 5A-6	BASE	143.50	14.78	0.00	275313	7.27	8.14
025Y24H	LAKE 5A-6	BASE	144.00	14.78	0.00	274632	7.24	8.12
025Y24H	LAKE 5A-6	BASE	144.50	14.77	0.00	273951	7.22	8.10
025Y24H	LAKE 5A-6	BASE	145.00	14.77	0.00	273268	7.20	8.08
025Y24H	LAKE 5A-6	BASE	145.50	14.76	0.00	272583	7.18	8.06
025Y24H	LAKE 5A-6	BASE	146.00	14.75	0.00	271898	7.16	8.04
025Y24H	LAKE 5A-6	BASE	146.50	14.75	0.00	271211	7.14	8.01
025Y24H	LAKE 5A-6	BASE	147.00	14.74	0.00	270524	7.12	7.99
025Y24H	LAKE 5A-6	BASE	147.50	14.74	0.00	269834	7.10	7.97
025Y24H	LAKE 5A-6	BASE	148.00	14.73	0.00	269143	7.07	7.95
025Y24H	LAKE 5A-6	BASE	148.50	14.72	0.00	268451	7.05	7.92
025Y24H	LAKE 5A-6	BASE	149.00	14.72	0.00	267757	7.03	7.90
025Y24H	LAKE 5A-6	BASE	149.50	14.71	0.00	267062	7.01	7.88
025Y24H	LAKE 5A-6	BASE	150.00	14.71	0.00	266365	6.99	7.86
025Y24H	LAKE 5A-6	BASE	150.50	14.70	0.00	265667	6.96	7.83
025Y24H	LAKE 5A-6	BASE	151.00	14.70	0.00	264967	6.94	7.81
025Y24H	LAKE 5A-6	BASE	151.50	14.69	0.00	264265	6.92	7.79
025Y24H	LAKE 5A-6	BASE	152.00	14.68	0.00	263562	6.89	7.76
025Y24H	LAKE 5A-6	BASE	152.50	14.68	0.00	262858	6.87	7.74
025Y24H	LAKE 5A-6	BASE	153.00	14.67	0.00	262152	6.85	7.72
025Y24H	LAKE 5A-6	BASE	153.50	14.67	0.00	261445	6.83	7.69
025Y24H	LAKE 5A-6	BASE	154.00	14.66	0.00	260736	6.80	7.67
025Y24H	LAKE 5A-6	BASE	154.50	14.65	0.00	260024	6.78	7.64
025Y24H	LAKE 5A-6	BASE	155.00	14.65	0.00	259312	6.75	7.62
025Y24H	LAKE 5A-6	BASE	155.50	14.64	0.00	258598	6.73	7.59
025Y24H	LAKE 5A-6	BASE	156.00	14.64	0.00	257883	6.71	7.57
025Y24H	LAKE 5A-6	BASE	156.50	14.63	0.00	257166	6.68	7.54
025Y24H	LAKE 5A-6	BASE	157.00	14.62	0.00	256448	6.65	7.52
025Y24H	LAKE 5A-6	BASE	157.50	14.62	0.00	255727	6.63	7.49
025Y24H	LAKE 5A-6	BASE	158.00	14.61	0.00	255006	6.61	7.47
025Y24H	LAKE 5A-6	BASE	158.50	14.61	0.00	254282	6.57	7.44
025Y24H	LAKE 5A-6	BASE	159.00	14.60	0.00	253558	6.56	7.42
025Y24H	LAKE 5A-6	BASE	159.50	14.59	0.00	252829	6.53	7.39
025Y24H	LAKE 5A-6	BASE	160.00	14.59	0.00	252101	6.51	7.37
025Y24H	LAKE 5A-6	BASE	160.50	14.58	0.00	251373	6.48	7.34
025Y24H	LAKE 5A-6	BASE	161.00	14.57	0.00	250641	6.44	7.31
025Y24H	LAKE 5A-6	BASE	161.50	14.57	0.00	249907	6.42	7.29
025Y24H	LAKE 5A-6	BASE	162.00	14.56	0.00	249174	6.41	7.26
025Y24H	LAKE 5A-6	BASE	162.50	14.56	0.00	248437	6.38	7.23
025Y24H	LAKE 5A-6	BASE	163.00	14.55	0.00	247700	6.33	7.21
025Y24H	LAKE 5A-6	BASE	163.50	14.54	0.00	246960	6.32	7.18
025Y24H	LAKE 5A-6	BASE	164.00	14.54	0.00	246218	6.30	7.15
025Y24H	LAKE 5A-6	BASE	164.50	14.53	0.00	245476	6.28	7.13
025Y24H	LAKE 5A-6	BASE	165.00	14.52	0.00	244731	6.25	7.10
025Y24H	LAKE 5A-6	BASE	165.50	14.52	0.00	243985	6.22	7.07
025Y24H	LAKE 5A-6	BASE	166.00	14.51	0.00	243236	6.19	7.04
025Y24H	LAKE 5A-6	BASE	166.50	14.51	0.00	242488	6.16	7.02
025Y24H	LAKE 5A-6	BASE	167.00	14.50	0.00	241752	6.14	6.99
025Y24H	LAKE 5A-6	BASE	167.50	14.49	0.00	241187	6.11	6.96
025Y24H	LAKE 5A-6	BASE	168.00	14.49	0.00	240621	6.08	6.93
025Y24H	LAKE 5A-6	BASE	168.50	14.48	0.00	240054	6.05	6.90
025Y24H	LAKE 5A-6	BASE	169.00	14.47	0.00	239488	6.00	6.87
025Y24H	LAKE 5A-6	BASE	169.50	14.47	0.00	238920	5.99	6.83
025Y24H	LAKE 5A-6	BASE	170.00	14.46	0.00	238354	5.95	6.80
025Y24H	LAKE 5A-6	BASE	170.50	14.45	0.00	237786	5.94	6.77
025Y24H	LAKE 5A-6	BASE	171.00	14.45	0.00	237217	5.89	6.74
025Y24H	LAKE 5A-6	BASE	171.50	14.44	0.00	236650	5.86	6.70
025Y24H	LAKE 5A-6	BASE	172.00	14.44	0.00	236083	5.84	6.67
025Y24H	LAKE 5A-6	BASE	172.50	14.43	0.00	235517	5.81	6.64
025Y24H	LAKE 5A-6	BASE	173.00	14.42	0.00	234947	5.77	6.61
025Y24H	LAKE 5A-6	BASE	173.50	14.42	0.00	234379	5.76	6.57
025Y24H	LAKE 5A-6	BASE	174.00	14.41	0.00	233811	5.70	6.54
025Y24H	LAKE 5A-6	BASE	174.50	14.40	0.00	233242	5.69	6.51
025Y24H	LAKE 5A-6	BASE	175.00	14.40	0.00	232674	5.64	6.48
025Y24H	LAKE 5A-6	BASE	175.50	14.39	0.00	232106	5.61	6.45
025Y24H	LAKE 5A-6	BASE	176.00	14.38	0.00	231538	5.61	6.41
025Y24H	LAKE 5A-6	BASE	176.50	14.38	0.00	230970	5.56	6.38
025Y24H	LAKE 5A-6	BASE	177.00	14.37	0.00	230402	5.54	6.35

NEW MODEL 1A  
36" pipe

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	177.50	14.37	0.00	229834	5.49	6.32
025Y24H	LAKE 5A-6	BASE	178.00	14.36	0.00	229266	5.49	6.28
025Y24H	LAKE 5A-6	BASE	178.50	14.35	0.00	228700	5.44	6.25
025Y24H	LAKE 5A-6	BASE	179.00	14.35	0.00	228134	5.41	6.22
025Y24H	LAKE 5A-6	BASE	179.50	14.34	0.00	227566	5.38	6.19
025Y24H	LAKE 5A-6	BASE	180.00	14.33	0.00	226999	5.35	6.16
025Y24H	LAKE 5A-6	BASE	180.50	14.33	0.00	226431	5.32	6.13
025Y24H	LAKE 5A-6	BASE	181.00	14.32	0.00	225863	5.29	6.09
025Y24H	LAKE 5A-6	BASE	181.50	14.31	0.00	225295	5.26	6.06
025Y24H	LAKE 5A-6	BASE	182.00	14.31	0.00	224727	5.23	6.03
025Y24H	LAKE 5A-6	BASE	182.50	14.30	0.00	224159	5.20	6.00
025Y24H	LAKE 5A-6	BASE	183.00	14.30	0.00	223591	5.17	5.97
025Y24H	LAKE 5A-6	BASE	183.50	14.29	0.00	223022	5.14	5.94
025Y24H	LAKE 5A-6	BASE	184.00	14.28	0.00	222454	5.11	5.90
025Y24H	LAKE 5A-6	BASE	184.50	14.28	0.00	221884	5.05	5.87
025Y24H	LAKE 5A-6	BASE	185.00	14.27	0.00	221315	5.04	5.84
025Y24H	LAKE 5A-6	BASE	185.50	14.26	0.00	220746	5.01	5.81
025Y24H	LAKE 5A-6	BASE	186.00	14.26	0.00	220175	5.00	5.78
025Y24H	LAKE 5A-6	BASE	186.50	14.25	0.00	219605	4.98	5.74
025Y24H	LAKE 5A-6	BASE	187.00	14.24	0.00	219036	4.94	5.71
025Y24H	LAKE 5A-6	BASE	187.50	14.24	0.00	218466	4.89	5.68
025Y24H	LAKE 5A-6	BASE	188.00	14.23	0.00	217897	4.86	5.65
025Y24H	LAKE 5A-6	BASE	188.50	14.22	0.00	217328	4.87	5.62
025Y24H	LAKE 5A-6	BASE	189.00	14.22	0.00	216759	4.83	5.59
025Y24H	LAKE 5A-6	BASE	189.50	14.21	0.00	216191	4.79	5.56
025Y24H	LAKE 5A-6	BASE	190.00	14.21	0.00	215622	4.75	5.52
025Y24H	LAKE 5A-6	BASE	190.50	14.20	0.00	215052	4.72	5.49
025Y24H	LAKE 5A-6	BASE	191.00	14.19	0.00	214484	4.72	5.46
025Y24H	LAKE 5A-6	BASE	191.50	14.19	0.00	213915	4.69	5.43
025Y24H	LAKE 5A-6	BASE	192.00	14.18	0.00	213346	4.65	5.40
025Y24H	LAKE 5A-6	BASE	192.50	14.17	0.00	212779	4.60	5.37
025Y24H	LAKE 5A-6	BASE	193.00	14.17	0.00	212209	4.56	5.34
025Y24H	LAKE 5A-6	BASE	193.50	14.16	0.00	211640	4.54	5.31
025Y24H	LAKE 5A-6	BASE	194.00	14.15	0.00	211075	4.53	5.28
025Y24H	LAKE 5A-6	BASE	194.50	14.15	0.00	210501	4.48	5.24
025Y24H	LAKE 5A-6	BASE	195.00	14.14	0.00	209932	4.45	5.21
025Y24H	LAKE 5A-6	BASE	195.50	14.13	0.00	209362	4.45	5.18
025Y24H	LAKE 5A-6	BASE	196.00	14.13	0.00	208796	4.42	5.15
025Y24H	LAKE 5A-6	BASE	196.50	14.12	0.00	208224	4.37	5.12
025Y24H	LAKE 5A-6	BASE	197.00	14.12	0.00	207653	4.33	5.09
025Y24H	LAKE 5A-6	BASE	197.50	14.11	0.00	207085	4.32	5.06
025Y24H	LAKE 5A-6	BASE	198.00	14.10	0.00	206515	4.29	5.03
025Y24H	LAKE 5A-6	BASE	198.50	14.10	0.00	205945	4.26	5.00
025Y24H	LAKE 5A-6	BASE	199.00	14.09	0.00	205375	4.22	4.97
025Y24H	LAKE 5A-6	BASE	199.50	14.08	0.00	204805	4.20	4.94
025Y24H	LAKE 5A-6	BASE	200.00	14.08	0.00	204236	4.17	4.90
025Y24H	LAKE 5A-6	BASE	200.50	14.07	0.00	203664	4.13	4.87
025Y24H	LAKE 5A-6	BASE	201.00	14.06	0.00	203095	4.11	4.84
025Y24H	LAKE 5A-6	BASE	201.50	14.06	0.00	202523	4.08	4.81
025Y24H	LAKE 5A-6	BASE	202.00	14.05	0.00	201952	4.05	4.78
025Y24H	LAKE 5A-6	BASE	202.50	14.05	0.00	201381	4.09	4.75
025Y24H	LAKE 5A-6	BASE	203.00	14.04	0.00	200815	3.98	4.72
025Y24H	LAKE 5A-6	BASE	203.50	14.03	0.00	200239	3.97	4.68
025Y24H	LAKE 5A-6	BASE	204.00	14.03	0.00	199668	3.94	4.65
025Y24H	LAKE 5A-6	BASE	204.50	14.02	0.00	199099	3.91	4.62
025Y24H	LAKE 5A-6	BASE	205.00	14.01	0.00	198531	3.88	4.59
025Y24H	LAKE 5A-6	BASE	205.50	14.01	0.00	197963	3.86	4.56
025Y24H	LAKE 5A-6	BASE	206.00	14.00	0.00	197396	3.83	4.53
025Y24H	LAKE 5A-6	BASE	206.50	13.99	0.00	197186	3.80	4.50
025Y24H	LAKE 5A-6	BASE	207.00	13.99	0.00	196993	3.77	4.47
025Y24H	LAKE 5A-6	BASE	207.50	13.98	0.00	196800	3.75	4.43
025Y24H	LAKE 5A-6	BASE	208.00	13.97	0.00	196608	3.72	4.40
025Y24H	LAKE 5A-6	BASE	208.50	13.97	0.00	196417	3.69	4.38
025Y24H	LAKE 5A-6	BASE	209.00	13.96	0.00	196227	3.67	4.35
025Y24H	LAKE 5A-6	BASE	209.50	13.96	0.00	196038	3.64	4.32
025Y24H	LAKE 5A-6	BASE	210.00	13.95	0.00	195850	3.62	4.29
025Y24H	LAKE 5A-6	BASE	210.50	13.94	0.00	195663	3.60	4.26
025Y24H	LAKE 5A-6	BASE	211.00	13.94	0.00	195477	3.57	4.23
025Y24H	LAKE 5A-6	BASE	211.50	13.93	0.00	195292	3.55	4.21
025Y24H	LAKE 5A-6	BASE	212.00	13.93	0.00	195107	3.53	4.18
025Y24H	LAKE 5A-6	BASE	212.50	13.92	0.00	194924	3.50	4.15

NEW MODEL 1A  
36" pipe

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	213.00	13.91	0.00	194742	3.48	4.13
025Y24H	LAKE 5A-6	BASE	213.50	13.91	0.00	194560	3.46	4.10
025Y24H	LAKE 5A-6	BASE	214.00	13.90	0.00	194379	3.44	4.08
025Y24H	LAKE 5A-6	BASE	214.50	13.90	0.00	194199	3.42	4.05
025Y24H	LAKE 5A-6	BASE	215.00	13.89	0.00	194020	3.40	4.03
025Y24H	LAKE 5A-6	BASE	215.50	13.88	0.00	193842	3.37	4.00
025Y24H	LAKE 5A-6	BASE	216.00	13.88	0.00	193664	3.35	3.98
025Y24H	LAKE 5A-6	BASE	216.50	13.87	0.00	193488	3.33	3.96
025Y24H	LAKE 5A-6	BASE	217.00	13.87	0.00	193312	3.31	3.93
025Y24H	LAKE 5A-6	BASE	217.50	13.86	0.00	193137	3.29	3.91
025Y24H	LAKE 5A-6	BASE	218.00	13.86	0.00	192962	3.28	3.89
025Y24H	LAKE 5A-6	BASE	218.50	13.85	0.00	192789	3.26	3.86
025Y24H	LAKE 5A-6	BASE	219.00	13.84	0.00	192616	3.24	3.84
025Y24H	LAKE 5A-6	BASE	219.50	13.84	0.00	192444	3.22	3.82
025Y24H	LAKE 5A-6	BASE	220.00	13.83	0.00	192273	3.20	3.80
025Y24H	LAKE 5A-6	BASE	220.50	13.83	0.00	192102	3.18	3.78
025Y24H	LAKE 5A-6	BASE	221.00	13.82	0.00	191932	3.16	3.76
025Y24H	LAKE 5A-6	BASE	221.50	13.82	0.00	191763	3.15	3.74
025Y24H	LAKE 5A-6	BASE	222.00	13.81	0.00	191594	3.13	3.72
025Y24H	LAKE 5A-6	BASE	222.50	13.81	0.00	191427	3.11	3.70
025Y24H	LAKE 5A-6	BASE	223.00	13.80	0.00	191259	3.10	3.68
025Y24H	LAKE 5A-6	BASE	223.50	13.79	0.00	191093	3.08	3.66
025Y24H	LAKE 5A-6	BASE	224.00	13.79	0.00	190927	3.06	3.64
025Y24H	LAKE 5A-6	BASE	224.50	13.78	0.00	190762	3.05	3.62
025Y24H	LAKE 5A-6	BASE	225.00	13.78	0.00	190597	3.03	3.60
025Y24H	LAKE 5A-6	BASE	225.50	13.77	0.00	190433	3.02	3.58
025Y24H	LAKE 5A-6	BASE	226.00	13.77	0.00	190270	3.00	3.57
025Y24H	LAKE 5A-6	BASE	226.50	13.76	0.00	190107	2.99	3.55
025Y24H	LAKE 5A-6	BASE	227.00	13.76	0.00	189945	2.97	3.53
025Y24H	LAKE 5A-6	BASE	227.50	13.75	0.00	189783	2.96	3.51
025Y24H	LAKE 5A-6	BASE	228.00	13.75	0.00	189622	2.94	3.50
025Y24H	LAKE 5A-6	BASE	228.50	13.74	0.00	189462	2.93	3.48
025Y24H	LAKE 5A-6	BASE	229.00	13.74	0.00	189302	2.91	3.46
025Y24H	LAKE 5A-6	BASE	229.50	13.73	0.00	189143	2.90	3.45
025Y24H	LAKE 5A-6	BASE	230.00	13.72	0.00	188984	2.88	3.43
025Y24H	LAKE 5A-6	BASE	230.50	13.72	0.00	188826	2.87	3.41
025Y24H	LAKE 5A-6	BASE	231.00	13.71	0.00	188668	2.86	3.40
025Y24H	LAKE 5A-6	BASE	231.50	13.71	0.00	188511	2.84	3.38
025Y24H	LAKE 5A-6	BASE	232.00	13.70	0.00	188354	2.83	3.37
025Y24H	LAKE 5A-6	BASE	232.50	13.70	0.00	188198	2.82	3.35
025Y24H	LAKE 5A-6	BASE	233.00	13.69	0.00	188042	2.80	3.34
025Y24H	LAKE 5A-6	BASE	233.50	13.69	0.00	187887	2.79	3.32
025Y24H	LAKE 5A-6	BASE	234.00	13.68	0.00	187733	2.78	3.31
025Y24H	LAKE 5A-6	BASE	234.50	13.68	0.00	187579	2.77	3.29
025Y24H	LAKE 5A-6	BASE	235.00	13.67	0.00	187425	2.75	3.28
025Y24H	LAKE 5A-6	BASE	235.50	13.67	0.00	187272	2.74	3.26
025Y24H	LAKE 5A-6	BASE	236.00	13.66	0.00	187119	2.73	3.25
025Y24H	LAKE 5A-6	BASE	236.50	13.66	0.00	186967	2.72	3.24
025Y24H	LAKE 5A-6	BASE	237.00	13.65	0.00	186815	2.71	3.22
025Y24H	LAKE 5A-6	BASE	237.50	13.65	0.00	186664	2.69	3.21
025Y24H	LAKE 5A-6	BASE	238.00	13.64	0.00	186513	2.68	3.19
025Y24H	LAKE 5A-6	BASE	238.50	13.64	0.00	186363	2.67	3.18
025Y24H	LAKE 5A-6	BASE	239.00	13.63	0.00	186213	2.66	3.17
025Y24H	LAKE 5A-6	BASE	239.50	13.63	0.00	186063	2.65	3.16
025Y24H	LAKE 5A-6	BASE	240.00	13.62	0.00	185914	2.64	3.14
025Y24H	LAKE 5A-6	BASE	240.50	13.62	0.00	185765	2.63	3.13
025Y24H	LAKE 5A-6	BASE	241.00	13.61	0.00	185617	2.62	3.12
025Y24H	LAKE 5A-6	BASE	241.50	13.61	0.00	185469	2.61	3.10
025Y24H	LAKE 5A-6	BASE	242.00	13.60	0.00	185322	2.59	3.09
025Y24H	LAKE 5A-6	BASE	242.50	13.60	0.00	185175	2.58	3.08
025Y24H	LAKE 5A-6	BASE	243.00	13.60	0.00	185028	2.57	3.07
025Y24H	LAKE 5A-6	BASE	243.50	13.59	0.00	184882	2.56	3.06
025Y24H	LAKE 5A-6	BASE	244.00	13.59	0.00	184737	2.55	3.04
025Y24H	LAKE 5A-6	BASE	244.50	13.58	0.00	184591	2.54	3.03
025Y24H	LAKE 5A-6	BASE	245.00	13.58	0.00	184446	2.53	3.02
025Y24H	LAKE 5A-6	BASE	245.50	13.57	0.00	184302	2.52	3.01
025Y24H	LAKE 5A-6	BASE	246.00	13.57	0.00	184157	2.51	3.00
025Y24H	LAKE 5A-6	BASE	246.50	13.56	0.00	184014	2.50	2.99
025Y24H	LAKE 5A-6	BASE	247.00	13.56	0.00	183870	2.49	2.97
025Y24H	LAKE 5A-6	BASE	247.50	13.55	0.00	183727	2.48	2.96
025Y24H	LAKE 5A-6	BASE	248.00	13.55	0.00	183584	2.47	2.95

NEW MODEL 1A  
36" pipe



Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	248.50	13.54	0.00	183442	2.47	2.94
025Y24H	LAKE 5A-6	BASE	249.00	13.54	0.00	183300	2.46	2.93
025Y24H	LAKE 5A-6	BASE	249.50	13.53	0.00	183159	2.45	2.92
025Y24H	LAKE 5A-6	BASE	250.00	13.53	0.00	183017	2.44	2.91
025Y24H	LAKE 5A-6	BASE	250.50	13.52	0.00	182877	2.43	2.90
025Y24H	LAKE 5A-6	BASE	251.00	13.52	0.00	182736	2.42	2.89
025Y24H	LAKE 5A-6	BASE	251.50	13.52	0.00	182596	2.41	2.88
025Y24H	LAKE 5A-6	BASE	252.00	13.51	0.00	182456	2.40	2.87
025Y24H	LAKE 5A-6	BASE	252.50	13.51	0.00	182317	2.39	2.86
025Y24H	LAKE 5A-6	BASE	253.00	13.50	0.00	182178	2.38	2.84
025Y24H	LAKE 5A-6	BASE	253.50	13.50	0.00	182126	2.37	2.83
025Y24H	LAKE 5A-6	BASE	254.00	13.49	0.00	182125	2.37	2.82
025Y24H	LAKE 5A-6	BASE	254.50	13.49	0.00	182125	2.36	2.81
025Y24H	LAKE 5A-6	BASE	255.00	13.48	0.00	182124	2.35	2.80
025Y24H	LAKE 5A-6	BASE	255.50	13.48	0.00	182124	2.34	2.79
025Y24H	LAKE 5A-6	BASE	256.00	13.47	0.00	182124	2.33	2.78
025Y24H	LAKE 5A-6	BASE	256.50	13.47	0.00	182123	2.32	2.77
025Y24H	LAKE 5A-6	BASE	257.00	13.47	0.00	182123	2.32	2.76
025Y24H	LAKE 5A-6	BASE	257.50	13.46	0.00	182123	2.31	2.76
025Y24H	LAKE 5A-6	BASE	258.00	13.46	0.00	182122	2.30	2.75
025Y24H	LAKE 5A-6	BASE	258.50	13.45	0.00	182122	2.29	2.74
025Y24H	LAKE 5A-6	BASE	259.00	13.45	0.00	182121	2.28	2.73
025Y24H	LAKE 5A-6	BASE	259.50	13.44	0.00	182121	2.27	2.72
025Y24H	LAKE 5A-6	BASE	260.00	13.44	0.00	182121	2.27	2.71
025Y24H	LAKE 5A-6	BASE	260.50	13.43	0.00	182120	2.26	2.70
025Y24H	LAKE 5A-6	BASE	261.00	13.43	0.00	182120	2.25	2.69
025Y24H	LAKE 5A-6	BASE	261.50	13.43	0.00	182119	2.24	2.68
025Y24H	LAKE 5A-6	BASE	262.00	13.42	0.00	182119	2.24	2.67
025Y24H	LAKE 5A-6	BASE	262.50	13.42	0.00	182119	2.23	2.66
025Y24H	LAKE 5A-6	BASE	263.00	13.41	0.00	182118	2.22	2.65
025Y24H	LAKE 5A-6	BASE	263.50	13.41	0.00	182118	2.21	2.65
025Y24H	LAKE 5A-6	BASE	264.00	13.40	0.00	182118	2.21	2.64
025Y24H	LAKE 5A-6	BASE	264.50	13.40	0.00	182117	2.20	2.63
025Y24H	LAKE 5A-6	BASE	265.00	13.40	0.00	182117	2.19	2.62
025Y24H	LAKE 5A-6	BASE	265.50	13.39	0.00	182116	2.18	2.61
025Y24H	LAKE 5A-6	BASE	266.00	13.39	0.00	182116	2.18	2.60
025Y24H	LAKE 5A-6	BASE	266.50	13.38	0.00	182116	2.17	2.59
025Y24H	LAKE 5A-6	BASE	267.00	13.38	0.00	182115	2.16	2.59
025Y24H	LAKE 5A-6	BASE	267.50	13.38	0.00	182115	2.16	2.58
025Y24H	LAKE 5A-6	BASE	268.00	13.37	0.00	182115	2.15	2.57
025Y24H	LAKE 5A-6	BASE	268.50	13.37	0.00	182114	2.14	2.56
025Y24H	LAKE 5A-6	BASE	269.00	13.36	0.00	182114	2.13	2.55
025Y24H	LAKE 5A-6	BASE	269.50	13.36	0.00	182114	2.13	2.54
025Y24H	LAKE 5A-6	BASE	270.00	13.35	0.00	182113	2.12	2.54
025Y24H	LAKE 5A-6	BASE	270.50	13.35	0.00	182113	2.11	2.53
025Y24H	LAKE 5A-6	BASE	271.00	13.35	0.00	182113	2.11	2.52
025Y24H	LAKE 5A-6	BASE	271.50	13.34	0.00	182112	2.10	2.51
025Y24H	LAKE 5A-6	BASE	272.00	13.34	0.00	182112	2.09	2.50
025Y24H	LAKE 5A-6	BASE	272.50	13.33	0.00	182111	2.09	2.49
025Y24H	LAKE 5A-6	BASE	273.00	13.33	0.00	182111	2.08	2.49
025Y24H	LAKE 5A-6	BASE	273.50	13.33	0.00	182111	2.07	2.48
025Y24H	LAKE 5A-6	BASE	274.00	13.32	0.00	182110	2.07	2.47
025Y24H	LAKE 5A-6	BASE	274.50	13.32	0.00	182110	2.06	2.46
025Y24H	LAKE 5A-6	BASE	275.00	13.31	0.00	182110	2.05	2.45
025Y24H	LAKE 5A-6	BASE	275.50	13.31	0.00	182109	2.04	2.45
025Y24H	LAKE 5A-6	BASE	276.00	13.31	0.00	182109	2.04	2.44
025Y24H	LAKE 5A-6	BASE	276.50	13.30	0.00	182109	2.03	2.43
025Y24H	LAKE 5A-6	BASE	277.00	13.30	0.00	182108	2.02	2.42
025Y24H	LAKE 5A-6	BASE	277.50	13.29	0.00	182108	2.02	2.41
025Y24H	LAKE 5A-6	BASE	278.00	13.29	0.00	182108	2.01	2.41
025Y24H	LAKE 5A-6	BASE	278.50	13.29	0.00	182107	2.00	2.40
025Y24H	LAKE 5A-6	BASE	279.00	13.28	0.00	182107	2.00	2.39
025Y24H	LAKE 5A-6	BASE	279.50	13.28	0.00	182107	1.99	2.38
025Y24H	LAKE 5A-6	BASE	280.00	13.28	0.00	182106	1.98	2.37
025Y24H	LAKE 5A-6	BASE	280.50	13.27	0.00	182106	1.98	2.37
025Y24H	LAKE 5A-6	BASE	281.00	13.27	0.00	182106	1.97	2.36
025Y24H	LAKE 5A-6	BASE	281.50	13.26	0.00	182105	1.96	2.35
025Y24H	LAKE 5A-6	BASE	282.00	13.26	0.00	182105	1.96	2.34
025Y24H	LAKE 5A-6	BASE	282.50	13.26	0.00	182105	1.95	2.34
025Y24H	LAKE 5A-6	BASE	283.00	13.25	0.00	182104	1.95	2.33
025Y24H	LAKE 5A-6	BASE	283.50	13.25	0.00	182104	1.94	2.32

NEW MODEL 1A  
36" pipe

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	284.00	13.25	0.00	182104	1.93	2.31
025Y24H	LAKE 5A-6	BASE	284.50	13.24	0.00	182103	1.93	2.30
025Y24H	LAKE 5A-6	BASE	285.00	13.24	0.00	182103	1.92	2.30
025Y24H	LAKE 5A-6	BASE	285.50	13.23	0.00	182103	1.91	2.29
025Y24H	LAKE 5A-6	BASE	286.00	13.23	0.00	182102	1.91	2.28
025Y24H	LAKE 5A-6	BASE	286.50	13.23	0.00	182102	1.90	2.27
025Y24H	LAKE 5A-6	BASE	287.00	13.22	0.00	182102	1.89	2.27
025Y24H	LAKE 5A-6	BASE	287.50	13.22	0.00	182101	1.89	2.26
025Y24H	LAKE 5A-6	BASE	288.00	13.22	0.00	182101	1.88	2.25
025Y24H	LAKE 5A-6	BASE	288.50	13.21	0.00	182101	1.87	2.24
025Y24H	LAKE 5A-6	BASE	289.00	13.21	0.00	182100	1.87	2.23
025Y24H	LAKE 5A-6	BASE	289.50	13.20	0.00	182100	1.86	2.23
025Y24H	LAKE 5A-6	BASE	290.00	13.20	0.00	182100	1.85	2.22
025Y24H	LAKE 5A-6	BASE	290.50	13.20	0.00	182100	1.85	2.21
025Y24H	LAKE 5A-6	BASE	291.00	13.19	0.00	182099	1.84	2.20
025Y24H	LAKE 5A-6	BASE	291.50	13.19	0.00	182099	1.83	2.20
025Y24H	LAKE 5A-6	BASE	292.00	13.19	0.00	182099	1.83	2.19
025Y24H	LAKE 5A-6	BASE	292.50	13.18	0.00	182098	1.82	2.18
025Y24H	LAKE 5A-6	BASE	293.00	13.18	0.00	182098	1.82	2.17
025Y24H	LAKE 5A-6	BASE	293.50	13.18	0.00	182098	1.81	2.17
025Y24H	LAKE 5A-6	BASE	294.00	13.17	0.00	182097	1.80	2.16
025Y24H	LAKE 5A-6	BASE	294.50	13.17	0.00	182097	1.80	2.15
025Y24H	LAKE 5A-6	BASE	295.00	13.17	0.00	182097	1.79	2.14
025Y24H	LAKE 5A-6	BASE	295.50	13.16	0.00	182096	1.78	2.14
025Y24H	LAKE 5A-6	BASE	296.00	13.16	0.00	182096	1.78	2.13
025Y24H	LAKE 5A-6	BASE	296.50	13.16	0.00	182096	1.77	2.12
025Y24H	LAKE 5A-6	BASE	297.00	13.15	0.00	182096	1.76	2.11
025Y24H	LAKE 5A-6	BASE	297.50	13.15	0.00	182095	1.76	2.10
025Y24H	LAKE 5A-6	BASE	298.00	13.14	0.00	182095	1.75	2.10
025Y24H	LAKE 5A-6	BASE	298.50	13.14	0.00	182095	1.74	2.09
025Y24H	LAKE 5A-6	BASE	299.00	13.14	0.00	182094	1.74	2.08
025Y24H	LAKE 5A-6	BASE	299.50	13.13	0.00	182094	1.73	2.07
025Y24H	LAKE 5A-6	BASE	300.00	13.13	0.00	182094	1.73	2.07
025Y24H	LAKE 5A-6	BASE	300.50	13.13	0.00	182093	1.72	2.06
025Y24H	LAKE 5A-6	BASE	301.00	13.12	0.00	182093	1.71	2.05
025Y24H	LAKE 5A-6	BASE	301.50	13.12	0.00	182093	1.71	2.04
025Y24H	LAKE 5A-6	BASE	302.00	13.12	0.00	182093	1.70	2.04
025Y24H	LAKE 5A-6	BASE	302.50	13.11	0.00	182092	1.69	2.03
025Y24H	LAKE 5A-6	BASE	303.00	13.11	0.00	182092	1.69	2.02
025Y24H	LAKE 5A-6	BASE	303.50	13.11	0.00	182092	1.68	2.02
025Y24H	LAKE 5A-6	BASE	304.00	13.10	0.00	182091	1.68	2.01
025Y24H	LAKE 5A-6	BASE	304.50	13.10	0.00	182091	1.67	2.00
025Y24H	LAKE 5A-6	BASE	305.00	13.10	0.00	182091	1.66	1.99
025Y24H	LAKE 5A-6	BASE	305.50	13.10	0.00	182091	1.66	1.99
025Y24H	LAKE 5A-6	BASE	306.00	13.09	0.00	182090	1.65	1.98
025Y24H	LAKE 5A-6	BASE	306.50	13.09	0.00	182090	1.64	1.97
025Y24H	LAKE 5A-6	BASE	307.00	13.09	0.00	182090	1.64	1.96
025Y24H	LAKE 5A-6	BASE	307.50	13.08	0.00	182089	1.63	1.96
025Y24H	LAKE 5A-6	BASE	308.00	13.08	0.00	182089	1.63	1.95
025Y24H	LAKE 5A-6	BASE	308.50	13.08	0.00	182089	1.62	1.94
025Y24H	LAKE 5A-6	BASE	309.00	13.07	0.00	182089	1.61	1.93
025Y24H	LAKE 5A-6	BASE	309.50	13.07	0.00	182088	1.61	1.93
025Y24H	LAKE 5A-6	BASE	310.00	13.07	0.00	182088	1.60	1.92
025Y24H	LAKE 5A-6	BASE	310.50	13.06	0.00	182088	1.60	1.91
025Y24H	LAKE 5A-6	BASE	311.00	13.06	0.00	182088	1.59	1.91
025Y24H	LAKE 5A-6	BASE	311.50	13.06	0.00	182087	1.58	1.90
025Y24H	LAKE 5A-6	BASE	312.00	13.05	0.00	182087	1.58	1.89
025Y24H	LAKE 5A-6	BASE	312.50	13.05	0.00	182087	1.57	1.88
025Y24H	LAKE 5A-6	BASE	313.00	13.05	0.00	182086	1.57	1.88
025Y24H	LAKE 5A-6	BASE	313.50	13.04	0.00	182086	1.56	1.87
025Y24H	LAKE 5A-6	BASE	314.00	13.04	0.00	182086	1.55	1.86
025Y24H	LAKE 5A-6	BASE	314.50	13.04	0.00	182086	1.55	1.85
025Y24H	LAKE 5A-6	BASE	315.00	13.04	0.00	182085	1.54	1.85
025Y24H	LAKE 5A-6	BASE	315.50	13.03	0.00	182085	1.54	1.84
025Y24H	LAKE 5A-6	BASE	316.00	13.03	0.00	182085	1.53	1.83
025Y24H	LAKE 5A-6	BASE	316.50	13.03	0.00	182085	1.52	1.83
025Y24H	LAKE 5A-6	BASE	317.00	13.02	0.00	182084	1.52	1.82
025Y24H	LAKE 5A-6	BASE	317.50	13.02	0.00	182084	1.51	1.81
025Y24H	LAKE 5A-6	BASE	318.00	13.02	0.00	182084	1.51	1.81
025Y24H	LAKE 5A-6	BASE	318.50	13.01	0.00	182084	1.50	1.80
025Y24H	LAKE 5A-6	BASE	319.00	13.01	0.00	182083	1.49	1.79

-10  
DAYS  
AFTER  
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EVENT

NEW MODEL 1A  
36" pipe

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	319.50	13.01	0.00	182083	1.49	1.78
025Y24H	LAKE 5A-6	BASE	320.00	13.01	0.00	182083	1.48	1.78
025Y24H	LAKE 5A-6	BASE	320.50	13.00	0.00	182083	1.48	1.77
025Y24H	LAKE 5A-6	BASE	321.00	13.00	0.00	182082	1.47	1.76
025Y24H	LAKE 5A-6	BASE	321.50	13.00	0.00	181589	1.46	1.76
025Y24H	LAKE 5A-6	BASE	322.00	12.99	0.00	181065	1.46	1.75
025Y24H	LAKE 5A-6	BASE	322.50	12.99	0.00	180543	1.45	1.74
025Y24H	LAKE 5A-6	BASE	323.00	12.99	0.00	180021	1.45	1.74
025Y24H	LAKE 5A-6	BASE	323.50	12.99	0.00	179500	1.44	1.73
025Y24H	LAKE 5A-6	BASE	324.00	12.98	0.00	178980	1.44	1.72
025Y24H	LAKE 5A-6	BASE	324.50	12.98	0.00	178460	1.43	1.71
025Y24H	LAKE 5A-6	BASE	325.00	12.98	0.00	177941	1.42	1.71
025Y24H	LAKE 5A-6	BASE	325.50	12.97	0.00	177423	1.42	1.70
025Y24H	LAKE 5A-6	BASE	326.00	12.97	0.00	176905	1.41	1.69
025Y24H	LAKE 5A-6	BASE	326.50	12.97	0.00	176388	1.41	1.68
025Y24H	LAKE 5A-6	BASE	327.00	12.97	0.00	175872	1.40	1.68
025Y24H	LAKE 5A-6	BASE	327.50	12.96	0.00	175357	1.39	1.67
025Y24H	LAKE 5A-6	BASE	328.00	12.96	0.00	174843	1.39	1.66
025Y24H	LAKE 5A-6	BASE	328.50	12.96	0.00	174329	1.38	1.66
025Y24H	LAKE 5A-6	BASE	329.00	12.95	0.00	173816	1.38	1.65
025Y24H	LAKE 5A-6	BASE	329.50	12.95	0.00	173304	1.37	1.64
025Y24H	LAKE 5A-6	BASE	330.00	12.95	0.00	172792	1.36	1.63
025Y24H	LAKE 5A-6	BASE	330.50	12.95	0.00	172282	1.36	1.63
025Y24H	LAKE 5A-6	BASE	331.00	12.94	0.00	171772	1.35	1.62
025Y24H	LAKE 5A-6	BASE	331.50	12.94	0.00	171263	1.34	1.61
025Y24H	LAKE 5A-6	BASE	332.00	12.94	0.00	170755	1.34	1.60
025Y24H	LAKE 5A-6	BASE	332.50	12.93	0.00	170248	1.33	1.60
025Y24H	LAKE 5A-6	BASE	333.00	12.93	0.00	169742	1.32	1.59
025Y24H	LAKE 5A-6	BASE	333.50	12.93	0.00	169237	1.32	1.58
025Y24H	LAKE 5A-6	BASE	334.00	12.93	0.00	168733	1.31	1.57
025Y24H	LAKE 5A-6	BASE	334.50	12.92	0.00	168230	1.31	1.56
025Y24H	LAKE 5A-6	BASE	335.00	12.92	0.00	167728	1.30	1.56
025Y24H	LAKE 5A-6	BASE	335.50	12.92	0.00	167227	1.29	1.55
025Y24H	LAKE 5A-6	BASE	336.00	12.92	0.00	166727	1.29	1.54
025Y24H	LAKE 5A-6	BASE	336.50	12.91	0.00	166229	1.28	1.53
025Y24H	LAKE 5A-6	BASE	337.00	12.91	0.00	165735	1.27	1.52
025Y24H	LAKE 5A-6	BASE	337.50	12.91	0.00	165243	1.26	1.50
025Y24H	LAKE 5A-6	BASE	338.00	12.90	0.00	164754	1.25	1.49
025Y24H	LAKE 5A-6	BASE	338.50	12.90	0.00	164268	1.24	1.48
025Y24H	LAKE 5A-6	BASE	339.00	12.90	0.00	163784	1.23	1.47
025Y24H	LAKE 5A-6	BASE	339.50	12.90	0.00	163303	1.22	1.46
025Y24H	LAKE 5A-6	BASE	340.00	12.89	0.00	162824	1.21	1.44
025Y24H	LAKE 5A-6	BASE	340.50	12.89	0.00	162347	1.20	1.43
025Y24H	LAKE 5A-6	BASE	341.00	12.89	0.00	161873	1.19	1.42
025Y24H	LAKE 5A-6	BASE	341.50	12.89	0.00	161402	1.18	1.41
025Y24H	LAKE 5A-6	BASE	342.00	12.88	0.00	160933	1.17	1.40
025Y24H	LAKE 5A-6	BASE	342.50	12.88	0.00	160466	1.16	1.39
025Y24H	LAKE 5A-6	BASE	343.00	12.88	0.00	160002	1.15	1.37
025Y24H	LAKE 5A-6	BASE	343.50	12.88	0.00	159541	1.14	1.36
025Y24H	LAKE 5A-6	BASE	344.00	12.87	0.00	159081	1.13	1.35
025Y24H	LAKE 5A-6	BASE	344.50	12.87	0.00	158624	1.12	1.34
025Y24H	LAKE 5A-6	BASE	345.00	12.87	0.00	158170	1.11	1.33
025Y24H	LAKE 5A-6	BASE	345.50	12.87	0.00	157718	1.10	1.32
025Y24H	LAKE 5A-6	BASE	346.00	12.86	0.00	157268	1.09	1.31
025Y24H	LAKE 5A-6	BASE	346.50	12.86	0.00	156821	1.08	1.30
025Y24H	LAKE 5A-6	BASE	347.00	12.86	0.00	156376	1.07	1.29
025Y24H	LAKE 5A-6	BASE	347.50	12.86	0.00	155934	1.07	1.28
025Y24H	LAKE 5A-6	BASE	348.00	12.85	0.00	155493	1.06	1.27
025Y24H	LAKE 5A-6	BASE	348.50	12.85	0.00	155056	1.05	1.26
025Y24H	LAKE 5A-6	BASE	349.00	12.85	0.00	154620	1.04	1.25
025Y24H	LAKE 5A-6	BASE	349.50	12.85	0.00	154187	1.03	1.24
025Y24H	LAKE 5A-6	BASE	350.00	12.84	0.00	153756	1.02	1.23
025Y24H	LAKE 5A-6	BASE	350.50	12.84	0.00	153328	1.01	1.22
025Y24H	LAKE 5A-6	BASE	351.00	12.84	0.00	152901	1.01	1.21
025Y24H	LAKE 5A-6	BASE	351.50	12.84	0.00	152478	1.00	1.20
025Y24H	LAKE 5A-6	BASE	352.00	12.84	0.00	152056	0.99	1.19
025Y24H	LAKE 5A-6	BASE	352.50	12.83	0.00	151637	0.98	1.18
025Y24H	LAKE 5A-6	BASE	353.00	12.83	0.00	151220	0.97	1.17
025Y24H	LAKE 5A-6	BASE	353.50	12.83	0.00	150805	0.96	1.16
025Y24H	LAKE 5A-6	BASE	354.00	12.83	0.00	150392	0.96	1.15
025Y24H	LAKE 5A-6	BASE	354.50	12.82	0.00	149982	0.95	1.14

NEW MODEL 1A  
36" pipe

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	355.00	12.82	0.00	149574	0.94	1.13
025Y24H	LAKE 5A-6	BASE	355.50	12.82	0.00	149168	0.93	1.12
025Y24H	LAKE 5A-6	BASE	356.00	12.82	0.00	148765	0.93	1.11
025Y24H	LAKE 5A-6	BASE	356.50	12.81	0.00	148363	0.92	1.10
025Y24H	LAKE 5A-6	BASE	357.00	12.81	0.00	147964	0.91	1.09
025Y24H	LAKE 5A-6	BASE	357.50	12.81	0.00	147567	0.90	1.08
025Y24H	LAKE 5A-6	BASE	358.00	12.81	0.00	147173	0.90	1.07
025Y24H	LAKE 5A-6	BASE	358.50	12.81	0.00	146780	0.89	1.07
025Y24H	LAKE 5A-6	BASE	359.00	12.80	0.00	146390	0.88	1.06
025Y24H	LAKE 5A-6	BASE	359.50	12.80	0.00	146002	0.87	1.05
025Y24H	LAKE 5A-6	BASE	360.00	12.80	0.00	145616	0.87	1.04

NEW MODEL 1A  
36" pipe

Model # 2

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs
F.S. Basin	BASE	25 year1	72.47	15.47	0.00	0.0016	820954	60.00	57.72
Hertz GHQ Basin	BASE	25 year1	72.20	15.49	0.00	0.0002	458125	60.00	72.36
Hertz SC Basin	BASE	25 year1	72.33	15.49	0.00	0.0097	247862	60.00	25.37
Hertz Undev.	BASE	25 year1	72.21	15.50	0.00	0.0071	239402	60.00	31.86
Junction 4-5	BASE	25 year1	71.61	15.49	0.00	-0.0179	148	61.86	12.72
Lake 5A-1	BASE	25 year1	72.56	15.42	0.00	0.0012	642500	60.00	64.06
Lake 5A-2	BASE	25 year1	72.46	15.42	0.00	0.0022	215701	60.00	28.74
Lake 5A-3	BASE	25 year1	72.21	15.50	0.00	-0.0116	255363	60.00	39.89
Lake 5A-4	BASE	25 year1	72.23	15.49	0.00	-0.0286	197467	60.00	38.84
Lake 5A-5	BASE	25 year1	72.33	15.48	0.00	0.0039	165047	60.00	21.67
Lake 5A-6	BASE	25 year1	72.40	15.41	0.00	0.0120	350341	60.00	46.14
Lake 5A-7	BASE	25 year1	72.43	15.47	0.00	0.0149	356112	60.00	36.23
Outfall	BASE	25 year1	72.00	15.10	0.00	0.0000	0	68.41	9.33
F.S. Basin	BASE	5YEAR	105.38	14.79	0.00	0.0016	655296	12.00	24.66
Hertz GHQ Basin	BASE	5YEAR	107.65	14.79	0.00	0.0006	284200	12.00	44.38
Hertz SC Basin	BASE	5YEAR	107.06	14.79	0.00	-0.0033	172942	12.00	15.56
Hertz Undev.	BASE	5YEAR	107.64	14.79	0.00	0.0071	132036	12.00	19.54
Junction 4-5	BASE	5YEAR	106.67	14.79	0.00	0.0177	148	13.48	16.44
Lake 5A-1	BASE	5YEAR	104.70	14.79	0.00	-0.0009	475672	12.00	39.29
Lake 5A-2	BASE	5YEAR	104.68	14.79	0.00	0.0022	164058	12.00	18.73
Lake 5A-3	BASE	5YEAR	107.64	14.79	0.00	-0.0116	199142	12.00	42.03
Lake 5A-4	BASE	5YEAR	107.65	14.79	0.00	-0.0291	160505	12.02	41.98
Lake 5A-5	BASE	5YEAR	107.06	14.79	0.00	0.0039	120997	12.00	20.10
Lake 5A-6	BASE	5YEAR	104.70	14.79	0.00	0.0115	276044	12.00	39.90
Lake 5A-7	BASE	5YEAR	105.38	14.79	0.00	0.0149	265070	12.01	42.05
Outfall	BASE	5YEAR	72.00	15.10	0.00	0.0000	0	23.08	9.36

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af
25 year1	Lake 5A-6	BASE	0.00	12.00	0.00	158	0.00	-0.15	0.0
25 year1	Lake 5A-6	BASE	1.00	12.02	0.00	158	7.43	-0.18	0.3
25 year1	Lake 5A-6	BASE	2.00	12.04	0.00	158	7.39	-0.21	0.9
25 year1	Lake 5A-6	BASE	3.00	12.06	0.00	158	7.36	-0.24	1.5
25 year1	Lake 5A-6	BASE	4.00	12.09	0.00	158	7.32	-0.27	2.1
25 year1	Lake 5A-6	BASE	5.00	12.16	0.00	158	7.24	-0.30	2.7
25 year1	Lake 5A-6	BASE	6.00	12.27	0.00	158	6.36	-0.33	3.3
25 year1	Lake 5A-6	BASE	7.00	12.33	0.00	158	6.29	-0.37	3.8
25 year1	Lake 5A-6	BASE	8.00	12.38	0.00	158	6.22	-0.40	4.3
25 year1	Lake 5A-6	BASE	9.00	12.42	0.00	158	6.15	-0.43	4.8
25 year1	Lake 5A-6	BASE	10.00	12.46	0.00	158	6.10	-0.44	5.4
25 year1	Lake 5A-6	BASE	11.00	12.50	0.00	182126	0.26	-0.44	5.6
25 year1	Lake 5A-6	BASE	12.00	12.52	0.00	182126	0.41	-0.47	5.6
25 year1	Lake 5A-6	BASE	13.00	12.54	0.00	182126	0.44	-0.49	5.7
25 year1	Lake 5A-6	BASE	14.00	12.55	0.00	182126	0.46	-0.51	5.7
25 year1	Lake 5A-6	BASE	15.00	12.57	0.00	182126	0.48	-0.52	5.8
25 year1	Lake 5A-6	BASE	16.00	12.59	0.00	182126	0.50	-0.54	5.8
25 year1	Lake 5A-6	BASE	17.00	12.61	0.00	182126	0.50	-0.55	5.8
25 year1	Lake 5A-6	BASE	18.00	12.63	0.00	182126	0.52	-0.56	5.9
25 year1	Lake 5A-6	BASE	19.00	12.65	0.00	182126	0.52	-0.56	5.9
25 year1	Lake 5A-6	BASE	20.00	12.67	0.00	182126	0.51	-0.56	6.0
25 year1	Lake 5A-6	BASE	21.00	12.69	0.00	182126	0.51	-0.55	6.0
25 year1	Lake 5A-6	BASE	22.00	12.71	0.00	182126	0.52	-0.54	6.1
25 year1	Lake 5A-6	BASE	23.00	12.74	0.00	182126	0.55	-0.51	6.1
25 year1	Lake 5A-6	BASE	24.00	12.76	0.00	182126	0.57	-0.48	6.1
25 year1	Lake 5A-6	BASE	25.00	12.78	0.00	182126	0.62	-0.88	6.2
25 year1	Lake 5A-6	BASE	26.00	12.81	0.00	182126	0.45	-1.23	6.2
25 year1	Lake 5A-6	BASE	27.00	12.85	0.00	182126	0.19	-1.59	6.3
25 year1	Lake 5A-6	BASE	28.00	12.88	0.00	182126	-0.19	-1.95	6.3
25 year1	Lake 5A-6	BASE	29.00	12.91	0.00	182126	-0.52	-2.33	6.2
25 year1	Lake 5A-6	BASE	30.00	12.95	0.00	182126	-0.86	-2.73	6.2
25 year1	Lake 5A-6	BASE	31.00	12.99	0.00	182126	-1.22	-3.13	6.1
25 year1	Lake 5A-6	BASE	32.00	13.03	0.00	182126	-1.59	-3.55	6.0
25 year1	Lake 5A-6	BASE	33.00	13.07	0.00	182126	-1.96	-3.99	5.8
25 year1	Lake 5A-6	BASE	34.00	13.11	0.00	182126	-2.34	-4.43	5.6
25 year1	Lake 5A-6	BASE	35.00	13.15	0.00	182126	-2.72	-4.88	5.4
25 year1	Lake 5A-6	BASE	36.00	13.19	0.00	182126	-3.12	-5.34	5.2
25 year1	Lake 5A-6	BASE	37.00	13.24	0.00	182126	-3.51	-5.81	4.9
25 year1	Lake 5A-6	BASE	38.00	13.28	0.00	182126	-3.92	-6.28	4.6
25 year1	Lake 5A-6	BASE	39.00	13.33	0.00	182126	-4.34	-6.76	4.3

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af
25 year1	Lake 5A-6	BASE	40.00	13.38	0.00	182126	-4.77	-7.25	3.9
25 year1	Lake 5A-6	BASE	41.00	13.43	0.00	182126	-5.20	-7.74	3.5
25 year1	Lake 5A-6	BASE	42.00	13.48	0.00	182126	-5.64	-8.24	3.0
25 year1	Lake 5A-6	BASE	43.00	13.53	0.00	183059	-6.16	-8.74	2.6
25 year1	Lake 5A-6	BASE	44.00	13.58	0.00	184655	-6.57	-9.22	2.0
25 year1	Lake 5A-6	BASE	45.00	13.64	0.00	186265	-6.97	-9.69	1.5
25 year1	Lake 5A-6	BASE	46.00	13.69	0.00	187892	-7.35	-10.17	0.9
25 year1	Lake 5A-6	BASE	47.00	13.74	0.00	189533	-7.76	-10.65	0.3
25 year1	Lake 5A-6	BASE	48.00	13.80	0.00	191185	-8.19	-11.13	-0.4
25 year1	Lake 5A-6	BASE	49.00	13.85	0.00	192798	-8.19	-11.04	-1.1
25 year1	Lake 5A-6	BASE	50.00	13.90	0.00	194389	-8.17	-10.95	-1.8
25 year1	Lake 5A-6	BASE	51.00	13.96	0.00	196008	-7.93	-10.85	-2.4
25 year1	Lake 5A-6	BASE	52.00	14.01	0.00	198266	-7.68	-10.73	-3.1
25 year1	Lake 5A-6	BASE	53.00	14.07	0.00	203412	-7.18	-10.58	-3.7
25 year1	Lake 5A-6	BASE	54.00	14.13	0.00	208989	-6.62	-10.40	-4.3
25 year1	Lake 5A-6	BASE	55.00	14.20	0.00	214973	-6.01	-10.16	-4.8
25 year1	Lake 5A-6	BASE	56.00	14.27	0.00	221302	-5.38	-9.86	-5.2
25 year1	Lake 5A-6	BASE	57.00	14.34	0.00	227967	-4.62	-9.49	-5.7
25 year1	Lake 5A-6	BASE	58.00	14.43	0.00	235211	-3.41	-9.01	-6.0
25 year1	Lake 5A-6	BASE	59.00	14.52	0.00	244390	-1.12	-8.28	-6.2
25 year1	Lake 5A-6	BASE	60.00	14.91	0.00	289955	46.11	-1.62	-4.3
25 year1	Lake 5A-6	BASE	61.00	15.21	0.00	326641	15.51	6.93	-1.8
25 year1	Lake 5A-6	BASE	62.00	15.27	0.00	333768	11.45	8.03	-0.7
25 year1	Lake 5A-6	BASE	63.00	15.31	0.00	337833	10.94	8.57	0.3
25 year1	Lake 5A-6	BASE	64.00	15.33	0.00	340790	11.12	8.92	1.2
25 year1	Lake 5A-6	BASE	65.00	15.35	0.00	342885	10.28	9.11	2.1
25 year1	Lake 5A-6	BASE	66.00	15.36	0.00	344344	10.31	9.19	2.9
25 year1	Lake 5A-6	BASE	67.00	15.37	0.00	345754	10.39	9.25	3.8
25 year1	Lake 5A-6	BASE	68.00	15.39	0.00	347151	10.43	9.31	4.6
25 year1	Lake 5A-6	BASE	69.00	15.39	0.00	348178	9.88	9.31	5.5
25 year1	Lake 5A-6	BASE	70.00	15.40	0.00	348872	9.76	9.23	6.3
25 year1	Lake 5A-6	BASE	71.00	15.41	0.00	349541	9.70	9.15	7.1
25 year1	Lake 5A-6	BASE	72.00	15.41	0.00	350213	9.61	9.06	7.9
25 year1	Lake 5A-6	BASE	73.00	15.41	0.00	350103	8.55	9.18	8.6
25 year1	Lake 5A-6	BASE	74.00	15.40	0.00	349295	8.46	9.17	9.3
25 year1	Lake 5A-6	BASE	75.00	15.40	0.00	348428	8.44	9.15	10.0
25 year1	Lake 5A-6	BASE	76.00	15.39	0.00	347555	8.41	9.12	10.7
25 year1	Lake 5A-6	BASE	77.00	15.38	0.00	346668	8.37	9.09	11.4
25 year1	Lake 5A-6	BASE	78.00	15.37	0.00	345769	8.33	9.06	12.1
25 year1	Lake 5A-6	BASE	79.00	15.37	0.00	344860	8.29	9.02	12.8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af
25 year1	Lake 5A-6	BASE	80.00	15.36	0.00	343945	8.25	8.98	13.5
25 year1	Lake 5A-6	BASE	81.00	15.35	0.00	343023	8.21	8.94	14.2
25 year1	Lake 5A-6	BASE	82.00	15.34	0.00	342099	8.16	8.90	14.8
25 year1	Lake 5A-6	BASE	83.00	15.34	0.00	341171	8.12	8.86	15.5
25 year1	Lake 5A-6	BASE	84.00	15.33	0.00	340242	8.08	8.82	16.2
25 year1	Lake 5A-6	BASE	85.00	15.32	0.00	339311	8.04	8.77	16.8
25 year1	Lake 5A-6	BASE	86.00	15.31	0.00	338379	8.00	8.73	17.5
25 year1	Lake 5A-6	BASE	87.00	15.30	0.00	337446	7.96	8.69	18.2
25 year1	Lake 5A-6	BASE	88.00	15.30	0.00	336512	7.91	8.65	18.8
25 year1	Lake 5A-6	BASE	89.00	15.29	0.00	335576	7.88	8.61	19.5
25 year1	Lake 5A-6	BASE	90.00	15.28	0.00	334642	7.84	8.57	20.1
25 year1	Lake 5A-6	BASE	91.00	15.27	0.00	333708	7.81	8.53	20.8
25 year1	Lake 5A-6	BASE	92.00	15.27	0.00	332773	7.77	8.49	21.4
25 year1	Lake 5A-6	BASE	93.00	15.26	0.00	331839	7.73	8.46	22.1
25 year1	Lake 5A-6	BASE	94.00	15.25	0.00	330904	7.70	8.42	22.7
25 year1	Lake 5A-6	BASE	95.00	15.24	0.00	329969	7.67	8.38	23.3
25 year1	Lake 5A-6	BASE	96.00	15.23	0.00	329034	7.63	8.35	24.0
25 year1	Lake 5A-6	BASE	97.00	15.23	0.00	328082	7.62	8.35	24.6
25 year1	Lake 5A-6	BASE	98.00	15.22	0.00	327120	7.62	8.35	25.2
25 year1	Lake 5A-6	BASE	99.00	15.21	0.00	326154	7.62	8.36	25.9
25 year1	Lake 5A-6	BASE	100.00	15.20	0.00	325174	7.61	8.36	26.5
25 year1	Lake 5A-6	BASE	101.00	15.19	0.00	324193	7.62	8.36	27.1
25 year1	Lake 5A-6	BASE	102.00	15.19	0.00	323207	7.61	8.36	27.7
25 year1	Lake 5A-6	BASE	103.00	15.18	0.00	322219	7.62	8.36	28.4
25 year1	Lake 5A-6	BASE	104.00	15.17	0.00	321223	7.62	8.36	29.0
25 year1	Lake 5A-6	BASE	105.00	15.16	0.00	320224	7.62	8.36	29.6
25 year1	Lake 5A-6	BASE	106.00	15.15	0.00	319224	7.62	8.36	30.3
25 year1	Lake 5A-6	BASE	107.00	15.14	0.00	318212	7.62	8.37	30.9
25 year1	Lake 5A-6	BASE	108.00	15.14	0.00	317205	7.63	8.37	31.5
25 year1	Lake 5A-6	BASE	109.00	15.13	0.00	316191	7.63	8.38	32.1
25 year1	Lake 5A-6	BASE	110.00	15.12	0.00	315170	7.64	8.39	32.8
25 year1	Lake 5A-6	BASE	111.00	15.11	0.00	314141	7.65	8.41	33.4
25 year1	Lake 5A-6	BASE	112.00	15.10	0.00	313097	7.66	8.42	34.0
25 year1	Lake 5A-6	BASE	113.00	15.09	0.00	312054	7.67	8.43	34.7
25 year1	Lake 5A-6	BASE	114.00	15.08	0.00	311008	7.68	8.44	35.3
25 year1	Lake 5A-6	BASE	115.00	15.07	0.00	309952	7.67	8.45	35.9
25 year1	Lake 5A-6	BASE	116.00	15.07	0.00	308893	7.70	8.46	36.6
25 year1	Lake 5A-6	BASE	117.00	15.06	0.00	307827	7.71	8.47	37.2
25 year1	Lake 5A-6	BASE	118.00	15.05	0.00	306765	7.72	8.48	37.9
25 year1	Lake 5A-6	BASE	119.00	15.04	0.00	305689	7.72	8.48	38.5



Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af
25 year1	Lake 5A-6	BASE	120.00	15.03	0.00	304612	7.73	8.49	39.1
25 year1	Lake 5A-6	BASE	121.00	15.02	0.00	303540	7.73	8.49	39.8
25 year1	Lake 5A-6	BASE	122.00	15.01	0.00	302456	7.73	8.49	40.4
25 year1	Lake 5A-6	BASE	123.00	15.00	0.00	301376	7.74	8.50	41.0
25 year1	Lake 5A-6	BASE	124.00	14.99	0.00	300298	7.74	8.50	41.7
25 year1	Lake 5A-6	BASE	125.00	14.98	0.00	299206	7.73	8.50	42.3
25 year1	Lake 5A-6	BASE	126.00	14.98	0.00	298121	7.74	8.50	43.0
25 year1	Lake 5A-6	BASE	127.00	14.97	0.00	297027	7.73	8.49	43.6
25 year1	Lake 5A-6	BASE	128.00	14.96	0.00	295935	7.73	8.49	44.2
25 year1	Lake 5A-6	BASE	129.00	14.95	0.00	294840	7.73	8.49	44.9
25 year1	Lake 5A-6	BASE	130.00	14.94	0.00	293730	7.72	8.48	45.5
25 year1	Lake 5A-6	BASE	131.00	14.93	0.00	292625	7.72	8.48	46.2
25 year1	Lake 5A-6	BASE	132.00	14.92	0.00	291509	7.71	8.47	46.8
25 year1	Lake 5A-6	BASE	133.00	14.91	0.00	290398	7.71	8.47	47.4
25 year1	Lake 5A-6	BASE	134.00	14.90	0.00	289269	7.69	8.46	48.1
25 year1	Lake 5A-6	BASE	135.00	14.89	0.00	288143	7.69	8.45	48.7
25 year1	Lake 5A-6	BASE	136.00	14.88	0.00	287020	7.68	8.44	49.3
25 year1	Lake 5A-6	BASE	137.00	14.87	0.00	285877	7.67	8.43	50.0
25 year1	Lake 5A-6	BASE	138.00	14.86	0.00	284744	7.66	8.42	50.6
25 year1	Lake 5A-6	BASE	139.00	14.85	0.00	283605	7.62	8.41	51.2
25 year1	Lake 5A-6	BASE	140.00	14.84	0.00	282449	7.64	8.40	51.9
25 year1	Lake 5A-6	BASE	141.00	14.83	0.00	281296	7.63	8.38	52.5
25 year1	Lake 5A-6	BASE	142.00	14.82	0.00	280145	7.58	8.37	53.1
25 year1	Lake 5A-6	BASE	143.00	14.81	0.00	278969	7.59	8.35	53.8
25 year1	Lake 5A-6	BASE	144.00	14.80	0.00	277804	7.56	8.34	54.4
25 year1	Lake 5A-6	BASE	145.00	14.79	0.00	276632	7.57	8.32	55.0
25 year1	Lake 5A-6	BASE	146.00	14.78	0.00	275455	7.55	8.30	55.6
25 year1	Lake 5A-6	BASE	147.00	14.77	0.00	274271	7.52	8.29	56.3
25 year1	Lake 5A-6	BASE	148.00	14.76	0.00	273086	7.49	8.27	56.9
25 year1	Lake 5A-6	BASE	149.00	14.75	0.00	271900	7.50	8.25	57.5
25 year1	Lake 5A-6	BASE	150.00	14.74	0.00	270699	7.47	8.23	58.1
25 year1	Lake 5A-6	BASE	151.00	14.73	0.00	269496	7.45	8.21	58.7
25 year1	Lake 5A-6	BASE	152.00	14.72	0.00	268293	7.43	8.19	59.3
25 year1	Lake 5A-6	BASE	153.00	14.71	0.00	267080	7.41	8.16	60.0
25 year1	Lake 5A-6	BASE	154.00	14.70	0.00	265872	7.39	8.14	60.6
25 year1	Lake 5A-6	BASE	155.00	14.69	0.00	264649	7.37	8.12	61.2
25 year1	Lake 5A-6	BASE	156.00	14.68	0.00	263423	7.34	8.09	61.8
25 year1	Lake 5A-6	BASE	157.00	14.67	0.00	262193	7.32	8.07	62.4
25 year1	Lake 5A-6	BASE	158.00	14.66	0.00	260956	7.29	8.04	63.0
25 year1	Lake 5A-6	BASE	159.00	14.65	0.00	259723	7.27	8.02	63.6

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af
25 year1	Lake 5A-6	BASE	160.00	14.64	0.00	258477	7.21	7.99	64.2
25 year1	Lake 5A-6	BASE	161.00	14.63	0.00	257238	7.21	7.96	64.8
25 year1	Lake 5A-6	BASE	162.00	14.62	0.00	255970	7.18	7.93	65.4
25 year1	Lake 5A-6	BASE	163.00	14.61	0.00	254732	7.16	7.90	66.0
25 year1	Lake 5A-6	BASE	164.00	14.60	0.00	253462	7.10	7.87	66.6
25 year1	Lake 5A-6	BASE	165.00	14.59	0.00	252198	7.11	7.84	67.2
25 year1	Lake 5A-6	BASE	166.00	14.58	0.00	250926	7.03	7.81	67.7
25 year1	Lake 5A-6	BASE	167.00	14.57	0.00	249640	7.05	7.78	68.3
25 year1	Lake 5A-6	BASE	168.00	14.56	0.00	248355	6.97	7.75	68.9
25 year1	Lake 5A-6	BASE	169.00	14.54	0.00	247056	6.97	7.70	69.5
25 year1	Lake 5A-6	BASE	170.00	14.53	0.00	245779	6.89	7.66	70.1
25 year1	Lake 5A-6	BASE	171.00	14.52	0.00	244482	6.88	7.61	70.6
25 year1	Lake 5A-6	BASE	172.00	14.51	0.00	243204	6.85	7.57	71.2
25 year1	Lake 5A-6	BASE	173.00	14.50	0.00	241905	6.80	7.52	71.8
25 year1	Lake 5A-6	BASE	174.00	14.49	0.00	240904	6.76	7.47	72.3
25 year1	Lake 5A-6	BASE	175.00	14.48	0.00	239929	6.72	7.43	72.9
25 year1	Lake 5A-6	BASE	176.00	14.47	0.00	238953	6.67	7.38	73.4
25 year1	Lake 5A-6	BASE	177.00	14.46	0.00	237966	6.60	7.33	74.0
25 year1	Lake 5A-6	BASE	178.00	14.45	0.00	236986	6.57	7.29	74.5
25 year1	Lake 5A-6	BASE	179.00	14.43	0.00	236007	6.54	7.24	75.1
25 year1	Lake 5A-6	BASE	180.00	14.42	0.00	235027	6.49	7.19	75.6
25 year1	Lake 5A-6	BASE	181.00	14.41	0.00	234043	6.43	7.15	76.1
25 year1	Lake 5A-6	BASE	182.00	14.40	0.00	233057	6.37	7.10	76.7
25 year1	Lake 5A-6	BASE	183.00	14.39	0.00	232069	6.32	7.05	77.2
25 year1	Lake 5A-6	BASE	184.00	14.38	0.00	231078	6.28	7.00	77.7
25 year1	Lake 5A-6	BASE	185.00	14.37	0.00	230086	6.24	6.95	78.2
25 year1	Lake 5A-6	BASE	186.00	14.36	0.00	229095	6.19	6.91	78.7
25 year1	Lake 5A-6	BASE	187.00	14.35	0.00	228102	6.14	6.86	79.2
25 year1	Lake 5A-6	BASE	188.00	14.33	0.00	227113	6.10	6.81	79.7
25 year1	Lake 5A-6	BASE	189.00	14.32	0.00	226115	6.04	6.76	80.3
25 year1	Lake 5A-6	BASE	190.00	14.31	0.00	225115	6.00	6.71	80.7
25 year1	Lake 5A-6	BASE	191.00	14.30	0.00	224117	5.95	6.66	81.2
25 year1	Lake 5A-6	BASE	192.00	14.29	0.00	223123	5.94	6.62	81.7
25 year1	Lake 5A-6	BASE	193.00	14.28	0.00	222119	5.87	6.57	82.2
25 year1	Lake 5A-6	BASE	194.00	14.27	0.00	221118	5.81	6.52	82.7
25 year1	Lake 5A-6	BASE	195.00	14.26	0.00	220116	5.78	6.47	83.2
25 year1	Lake 5A-6	BASE	196.00	14.24	0.00	219111	5.72	6.42	83.7
25 year1	Lake 5A-6	BASE	197.00	14.23	0.00	218107	5.71	6.37	84.1
25 year1	Lake 5A-6	BASE	198.00	14.22	0.00	217101	5.62	6.32	84.6
25 year1	Lake 5A-6	BASE	199.00	14.21	0.00	216093	5.58	6.27	85.1

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol · In af
25 year1	Lake 5A-6	BASE	200.00	14.20	0.00	215084	5.53	6.22	85.5
25 year1	Lake 5A-6	BASE	201.00	14.19	0.00	214067	5.48	6.17	86.0
25 year1	Lake 5A-6	BASE	202.00	14.18	0.00	213055	5.43	6.12	86.4
25 year1	Lake 5A-6	BASE	203.00	14.17	0.00	212041	5.39	6.07	86.9
25 year1	Lake 5A-6	BASE	204.00	14.15	0.00	211017	5.34	6.02	87.3
25 year1	Lake 5A-6	BASE	205.00	14.14	0.00	209996	5.30	5.97	87.8
25 year1	Lake 5A-6	BASE	206.00	14.13	0.00	208973	5.25	5.92	88.2
25 year1	Lake 5A-6	BASE	207.00	14.12	0.00	207951	5.20	5.87	88.6
25 year1	Lake 5A-6	BASE	208.00	14.11	0.00	206930	5.15	5.81	89.1
25 year1	Lake 5A-6	BASE	209.00	14.10	0.00	205908	5.10	5.76	89.5
25 year1	Lake 5A-6	BASE	210.00	14.08	0.00	204884	5.05	5.71	89.9
25 year1	Lake 5A-6	BASE	211.00	14.07	0.00	203860	5.00	5.66	90.3
25 year1	Lake 5A-6	BASE	212.00	14.06	0.00	202835	4.95	5.60	90.7
25 year1	Lake 5A-6	BASE	213.00	14.05	0.00	201808	4.90	5.55	91.1
25 year1	Lake 5A-6	BASE	214.00	14.04	0.00	200780	4.85	5.50	91.5
25 year1	Lake 5A-6	BASE	215.00	14.03	0.00	199751	4.80	5.44	91.9
25 year1	Lake 5A-6	BASE	216.00	14.02	0.00	198720	4.75	5.39	92.3
25 year1	Lake 5A-6	BASE	217.00	14.00	0.00	197690	4.70	5.34	92.7
25 year1	Lake 5A-6	BASE	218.00	13.99	0.00	197128	4.65	5.29	93.1
25 year1	Lake 5A-6	BASE	219.00	13.98	0.00	196775	4.60	5.24	93.5
25 year1	Lake 5A-6	BASE	220.00	13.97	0.00	196424	4.56	5.18	93.9
25 year1	Lake 5A-6	BASE	221.00	13.96	0.00	196074	4.51	5.13	94.2
25 year1	Lake 5A-6	BASE	222.00	13.95	0.00	195726	4.46	5.08	94.6
25 year1	Lake 5A-6	BASE	223.00	13.93	0.00	195379	4.42	5.03	95.0
25 year1	Lake 5A-6	BASE	224.00	13.92	0.00	195034	4.37	4.98	95.3
25 year1	Lake 5A-6	BASE	225.00	13.91	0.00	194690	4.33	4.94	95.7
25 year1	Lake 5A-6	BASE	226.00	13.90	0.00	194348	4.28	4.89	96.1
25 year1	Lake 5A-6	BASE	227.00	13.89	0.00	194007	4.24	4.84	96.4
25 year1	Lake 5A-6	BASE	228.00	13.88	0.00	193669	4.20	4.79	96.8
25 year1	Lake 5A-6	BASE	229.00	13.87	0.00	193331	4.16	4.75	97.1
25 year1	Lake 5A-6	BASE	230.00	13.86	0.00	192995	4.11	4.70	97.4
25 year1	Lake 5A-6	BASE	231.00	13.85	0.00	192661	4.07	4.66	97.8
25 year1	Lake 5A-6	BASE	232.00	13.83	0.00	192328	4.03	4.61	98.1
25 year1	Lake 5A-6	BASE	233.00	13.82	0.00	191997	3.99	4.57	98.5
25 year1	Lake 5A-6	BASE	234.00	13.81	0.00	191667	3.95	4.53	98.8
25 year1	Lake 5A-6	BASE	235.00	13.80	0.00	191339	3.91	4.48	99.1
25 year1	Lake 5A-6	BASE	236.00	13.79	0.00	191012	3.87	4.44	99.4
25 year1	Lake 5A-6	BASE	237.00	13.78	0.00	190687	3.84	4.40	99.7
25 year1	Lake 5A-6	BASE	238.00	13.77	0.00	190363	3.80	4.36	100.1
25 year1	Lake 5A-6	BASE	239.00	13.76	0.00	190041	3.76	4.32	100.4

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af
25 year1	Lake 5A-6	BASE	240.00	13.75	0.00	189719	3.72	4.28	100.7
25 year1	Lake 5A-6	BASE	241.00	13.74	0.00	189400	3.69	4.24	101.0
25 year1	Lake 5A-6	BASE	242.00	13.73	0.00	189082	3.65	4.20	101.3
25 year1	Lake 5A-6	BASE	243.00	13.72	0.00	188765	3.62	4.16	101.6
25 year1	Lake 5A-6	BASE	244.00	13.71	0.00	188449	3.58	4.12	101.9
25 year1	Lake 5A-6	BASE	245.00	13.70	0.00	188135	3.55	4.08	102.2
25 year1	Lake 5A-6	BASE	246.00	13.69	0.00	187823	3.51	4.04	102.5
25 year1	Lake 5A-6	BASE	247.00	13.68	0.00	187511	3.48	4.01	102.8
25 year1	Lake 5A-6	BASE	248.00	13.67	0.00	187201	3.44	3.97	103.0
25 year1	Lake 5A-6	BASE	249.00	13.66	0.00	186893	3.41	3.93	103.3
25 year1	Lake 5A-6	BASE	250.00	13.65	0.00	186586	3.38	3.90	103.6
25 year1	Lake 5A-6	BASE	251.00	13.64	0.00	186280	3.34	3.86	103.9
25 year1	Lake 5A-6	BASE	252.00	13.63	0.00	185975	3.31	3.83	104.2
25 year1	Lake 5A-6	BASE	253.00	13.62	0.00	185672	3.28	3.79	104.4
25 year1	Lake 5A-6	BASE	254.00	13.61	0.00	185370	3.25	3.76	104.7
25 year1	Lake 5A-6	BASE	255.00	13.60	0.00	185069	3.22	3.72	105.0
25 year1	Lake 5A-6	BASE	256.00	13.59	0.00	184770	3.18	3.69	105.2
25 year1	Lake 5A-6	BASE	257.00	13.58	0.00	184471	3.15	3.65	105.5
25 year1	Lake 5A-6	BASE	258.00	13.57	0.00	184175	3.12	3.62	105.8
25 year1	Lake 5A-6	BASE	259.00	13.56	0.00	183879	3.09	3.59	106.0
25 year1	Lake 5A-6	BASE	260.00	13.55	0.00	183585	3.06	3.55	106.3
25 year1	Lake 5A-6	BASE	261.00	13.54	0.00	183292	3.03	3.52	106.5
25 year1	Lake 5A-6	BASE	262.00	13.53	0.00	183000	3.00	3.49	106.8
25 year1	Lake 5A-6	BASE	263.00	13.52	0.00	182710	2.97	3.46	107.0
25 year1	Lake 5A-6	BASE	264.00	13.51	0.00	182420	2.95	3.43	107.3
25 year1	Lake 5A-6	BASE	265.00	13.50	0.00	182133	2.92	3.39	107.5
25 year1	Lake 5A-6	BASE	266.00	13.49	0.00	182126	2.89	3.36	107.7
25 year1	Lake 5A-6	BASE	267.00	13.48	0.00	182126	2.86	3.33	108.0
25 year1	Lake 5A-6	BASE	268.00	13.47	0.00	182126	2.83	3.30	108.2
25 year1	Lake 5A-6	BASE	269.00	13.46	0.00	182126	2.81	3.27	108.5
25 year1	Lake 5A-6	BASE	270.00	13.45	0.00	182126	2.78	3.24	108.7
25 year1	Lake 5A-6	BASE	271.00	13.44	0.00	182126	2.75	3.21	108.9
25 year1	Lake 5A-6	BASE	272.00	13.44	0.00	182126	2.73	3.18	109.1
25 year1	Lake 5A-6	BASE	273.00	13.43	0.00	182126	2.70	3.15	109.4
25 year1	Lake 5A-6	BASE	274.00	13.42	0.00	182126	2.68	3.13	109.6
25 year1	Lake 5A-6	BASE	275.00	13.41	0.00	182126	2.65	3.10	109.8
25 year1	Lake 5A-6	BASE	276.00	13.40	0.00	182126	2.63	3.07	110.0
25 year1	Lake 5A-6	BASE	277.00	13.39	0.00	182126	2.60	3.04	110.2
25 year1	Lake 5A-6	BASE	278.00	13.38	0.00	182126	2.58	3.02	110.5
25 year1	Lake 5A-6	BASE	279.00	13.37	0.00	182126	2.55	2.99	110.7

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af
25 year1	Lake 5A-6	BASE	280.00	13.37	0.00	182126	2.53	2.96	110.9
25 year1	Lake 5A-6	BASE	281.00	13.36	0.00	182126	2.50	2.94	111.1
25 year1	Lake 5A-6	BASE	282.00	13.35	0.00	182126	2.48	2.91	111.3
25 year1	Lake 5A-6	BASE	283.00	13.34	0.00	182126	2.46	2.88	111.5
25 year1	Lake 5A-6	BASE	284.00	13.33	0.00	182126	2.44	2.86	111.7
25 year1	Lake 5A-6	BASE	285.00	13.32	0.00	182126	2.41	2.83	111.9
25 year1	Lake 5A-6	BASE	286.00	13.31	0.00	182126	2.39	2.81	112.1
25 year1	Lake 5A-6	BASE	287.00	13.31	0.00	182126	2.37	2.78	112.3
25 year1	Lake 5A-6	BASE	288.00	13.30	0.00	182126	2.35	2.76	112.5
25 year1	Lake 5A-6	BASE	289.00	13.29	0.00	182126	2.33	2.73	112.7
25 year1	Lake 5A-6	BASE	290.00	13.28	0.00	182126	2.30	2.71	112.9
25 year1	Lake 5A-6	BASE	291.00	13.27	0.00	182126	2.28	2.69	113.1
25 year1	Lake 5A-6	BASE	292.00	13.27	0.00	182126	2.26	2.66	113.2
25 year1	Lake 5A-6	BASE	293.00	13.26	0.00	182126	2.24	2.64	113.4
25 year1	Lake 5A-6	BASE	294.00	13.25	0.00	182126	2.22	2.62	113.6
25 year1	Lake 5A-6	BASE	295.00	13.24	0.00	182126	2.20	2.59	113.8
25 year1	Lake 5A-6	BASE	296.00	13.24	0.00	182126	2.18	2.57	114.0
25 year1	Lake 5A-6	BASE	297.00	13.23	0.00	182126	2.16	2.55	114.2
25 year1	Lake 5A-6	BASE	298.00	13.22	0.00	182126	2.14	2.52	114.3
25 year1	Lake 5A-6	BASE	299.00	13.21	0.00	182126	2.12	2.50	114.5
25 year1	Lake 5A-6	BASE	300.00	13.20	0.00	182126	2.10	2.48	114.7
25 year1	Lake 5A-6	BASE	301.00	13.20	0.00	182126	2.08	2.46	114.9
25 year1	Lake 5A-6	BASE	302.00	13.19	0.00	182126	2.06	2.44	115.0
25 year1	Lake 5A-6	BASE	303.00	13.18	0.00	182126	2.04	2.41	115.2
25 year1	Lake 5A-6	BASE	304.00	13.18	0.00	182126	2.02	2.39	115.4
25 year1	Lake 5A-6	BASE	305.00	13.17	0.00	182126	2.00	2.37	115.5
25 year1	Lake 5A-6	BASE	306.00	13.16	0.00	182126	1.98	2.35	115.7
25 year1	Lake 5A-6	BASE	307.00	13.15	0.00	182126	1.97	2.33	115.9
25 year1	Lake 5A-6	BASE	308.00	13.15	0.00	182126	1.95	2.31	116.0
25 year1	Lake 5A-6	BASE	309.00	13.14	0.00	182126	1.93	2.29	116.2
25 year1	Lake 5A-6	BASE	310.00	13.13	0.00	182126	1.91	2.27	116.3
25 year1	Lake 5A-6	BASE	311.00	13.13	0.00	182126	1.89	2.25	116.5
25 year1	Lake 5A-6	BASE	312.00	13.12	0.00	182126	1.88	2.23	116.7
25 year1	Lake 5A-6	BASE	313.00	13.11	0.00	182126	1.86	2.21	116.8
25 year1	Lake 5A-6	BASE	314.00	13.10	0.00	182126	1.84	2.19	117.0
25 year1	Lake 5A-6	BASE	315.00	13.10	0.00	182126	1.82	2.17	117.1
25 year1	Lake 5A-6	BASE	316.00	13.09	0.00	182126	1.81	2.15	117.3
25 year1	Lake 5A-6	BASE	317.00	13.08	0.00	182126	1.79	2.13	117.4
25 year1	Lake 5A-6	BASE	318.00	13.08	0.00	182126	1.77	2.11	117.6
25 year1	Lake 5A-6	BASE	319.00	13.07	0.00	182126	1.75	2.09	117.7

- 10  
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Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af
25 year1	Lake 5A-6	BASE	320.00	13.06	0.00	182126	1.74	2.07	117.8
25 year1	Lake 5A-6	BASE	321.00	13.06	0.00	182126	1.72	2.05	118.0
25 year1	Lake 5A-6	BASE	322.00	13.05	0.00	182126	1.70	2.03	118.1
25 year1	Lake 5A-6	BASE	323.00	13.05	0.00	182126	1.69	2.01	118.3
25 year1	Lake 5A-6	BASE	324.00	13.04	0.00	182126	1.67	1.99	118.4
25 year1	Lake 5A-6	BASE	325.00	13.03	0.00	182126	1.66	1.98	118.6
25 year1	Lake 5A-6	BASE	326.00	13.03	0.00	182126	1.64	1.96	118.7
25 year1	Lake 5A-6	BASE	327.00	13.02	0.00	182126	1.62	1.94	118.8
25 year1	Lake 5A-6	BASE	328.00	13.01	0.00	182126	1.61	1.92	119.0
25 year1	Lake 5A-6	BASE	329.00	13.01	0.00	182126	1.59	1.90	119.1
25 year1	Lake 5A-6	BASE	330.00	13.00	0.00	182126	1.58	1.88	119.2
25 year1	Lake 5A-6	BASE	331.00	13.00	0.00	182126	1.56	1.86	119.3
25 year1	Lake 5A-6	BASE	332.00	12.99	0.00	182126	1.54	1.85	119.5
25 year1	Lake 5A-6	BASE	333.00	12.98	0.00	182126	1.53	1.83	119.6
25 year1	Lake 5A-6	BASE	334.00	12.98	0.00	182126	1.51	1.81	119.7
25 year1	Lake 5A-6	BASE	335.00	12.97	0.00	182126	1.49	1.79	119.9
25 year1	Lake 5A-6	BASE	336.00	12.97	0.00	182126	1.48	1.77	120.0
25 year1	Lake 5A-6	BASE	337.00	12.96	0.00	182126	1.45	1.75	120.1
25 year1	Lake 5A-6	BASE	338.00	12.95	0.00	182126	1.43	1.72	120.2
25 year1	Lake 5A-6	BASE	339.00	12.95	0.00	182126	1.41	1.69	120.3
25 year1	Lake 5A-6	BASE	340.00	12.94	0.00	182126	1.38	1.67	120.4
25 year1	Lake 5A-6	BASE	341.00	12.94	0.00	182126	1.36	1.64	120.6
25 year1	Lake 5A-6	BASE	342.00	12.93	0.00	182126	1.34	1.61	120.7
25 year1	Lake 5A-6	BASE	343.00	12.93	0.00	182126	1.32	1.59	120.8
25 year1	Lake 5A-6	BASE	344.00	12.92	0.00	182126	1.30	1.57	120.9
25 year1	Lake 5A-6	BASE	345.00	12.92	0.00	182126	1.28	1.54	121.0
25 year1	Lake 5A-6	BASE	346.00	12.91	0.00	182126	1.26	1.52	121.1
25 year1	Lake 5A-6	BASE	347.00	12.91	0.00	182126	1.24	1.49	121.2
25 year1	Lake 5A-6	BASE	348.00	12.90	0.00	182126	1.22	1.47	121.3
25 year1	Lake 5A-6	BASE	349.00	12.90	0.00	182126	1.20	1.45	121.4
25 year1	Lake 5A-6	BASE	350.00	12.89	0.00	182126	1.18	1.43	121.5
25 year1	Lake 5A-6	BASE	351.00	12.89	0.00	182126	1.16	1.41	121.6
25 year1	Lake 5A-6	BASE	352.00	12.88	0.00	182126	1.14	1.38	121.7
25 year1	Lake 5A-6	BASE	353.00	12.88	0.00	182126	1.12	1.36	121.8
25 year1	Lake 5A-6	BASE	354.00	12.87	0.00	182126	1.11	1.34	121.9
25 year1	Lake 5A-6	BASE	355.00	12.87	0.00	182126	1.09	1.32	122.0
25 year1	Lake 5A-6	BASE	356.00	12.86	0.00	182126	1.07	1.30	122.1
25 year1	Lake 5A-6	BASE	357.00	12.86	0.00	182126	1.05	1.28	122.1
25 year1	Lake 5A-6	BASE	358.00	12.85	0.00	182126	1.04	1.26	122.2
25 year1	Lake 5A-6	BASE	359.00	12.85	0.00	182126	1.02	1.24	122.3

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af
25 year1	Lake 5A-6	BASE	360.00	12.85	0.00	182126	1.00	1.23	122.4
25 year1	Lake 5A-6	BASE	360.00	12.85	0.00	182126	1.00	1.23	122.4

==== Basins =====

Name: F.S. Basin                      Node: F.S. Basin                      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): 20.070                              Time Shift(hrs): 0.00  
Curve Number: 76.00                              Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: Hertz GHQ Basin                      Node: Hertz GHQ Basin                      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): 22.050                              Time Shift(hrs): 0.00  
Curve Number: 93.00                              Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

Name: Hertz SC Basin                      Node: Hertz SC Basin                      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): 7.730                              Time Shift(hrs): 0.00  
Curve Number: 93.00                              Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00



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Name: Hertz Undev.                      Node: Hertz Undev.                      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): 9.710                              Time Shift(hrs): 0.00  
Curve Number: 93.00                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

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Name: Lake 5A-1                              Node: Lake 5A-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): 20.00  
Area(ac): 19.520                              Time Shift(hrs): 0.00  
Curve Number: 93.00                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

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Name: Lake 5A-2                              Node: Lake 5A-2                              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): 10.670                              Time Shift(hrs): 0.00  
Curve Number: 93.00                      Max Allowable Q(cfs): 999999.000  
DCIA(%): 0.00

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Name: Lake 5A-3                              Node: Lake 5A-3                              Status: Onsite  
Group: BASE                              Type: SCS Unit Hydrograph CN

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Unit Hydrograph: Uh256  
Rainfall File:  
Rainfall Amount(in): 0.000  
Area(ac): 11.190  
Curve Number: 93.00  
DCIA(%): 0.00

Peaking Factor: 256.0  
Storm Duration(hrs): 0.00  
Time of Conc(min): 20.00  
Time Shift(hrs): 0.00  
Max Allowable Q(cfs): 999999.000

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Name: Lake 5A-4  
Group: BASE

Node: Lake 5A-4  
Type: SCS Unit Hydrograph CN

Status: Onsite

Unit Hydrograph: Uh256  
Rainfall File:  
Rainfall Amount(in): 0.000  
Area(ac): 8.050  
Curve Number: 93.00  
DCIA(%): 0.00

Peaking Factor: 256.0  
Storm Duration(hrs): 0.00  
Time of Conc(min): 20.00  
Time Shift(hrs): 0.00  
Max Allowable Q(cfs): 999999.000

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Name: Lake 5A-5  
Group: BASE

Node: Lake 5A-5  
Type: SCS Unit Hydrograph CN

Status: Onsite

Unit Hydrograph: Uh256  
Rainfall File:  
Rainfall Amount(in): 0.000  
Area(ac): 8.010  
Curve Number: 93.00  
DCIA(%): 0.00

Peaking Factor: 256.0  
Storm Duration(hrs): 0.00  
Time of Conc(min): 20.00  
Time Shift(hrs): 0.00  
Max Allowable Q(cfs): 999999.000

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Name: Lake 5A-6  
Group: BASE

Node: Lake 5A-6  
Type: SCS Unit Hydrograph CN

Status: Onsite

Unit Hydrograph: Uh256  
Rainfall File:  
Rainfall Amount(in): 0.000  
Area(ac): 16.220

Peaking Factor: 256.0  
Storm Duration(hrs): 0.00  
Time of Conc(min): 20.00  
Time Shift(hrs): 0.00

Curve Number: 93.00  
DCIA(%): 0.00

Max Allowable Q(cfs): 999999.000

Name: Lake 5A-7  
Group: BASE

Node: Lake 5A-7  
Type: SCS Unit Hydrograph CN

Status: Onsite

Unit Hydrograph: Uh256  
Rainfall File:  
Rainfall Amount(in): 0.000  
Area(ac): 17.210  
Curve Number: 93.00  
DCIA(%): 0.00

Peaking Factor: 256.0  
Storm Duration(hrs): 0.00  
Time of Conc(min): 20.00  
Time Shift(hrs): 0.00  
Max Allowable Q(cfs): 999999.000

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

Name: F.S. Basin  
Group: BASE  
Type: Stage/Volume

Base Flow(cfs): 0.000

Init Stage(ft): 12.000  
Warn Stage(ft): 0.000

Stage(ft)	Volume(af)
11.500	0.0000
12.000	0.0010
12.500	0.0600
13.000	0.1100
13.500	0.8300
14.000	4.3800
14.500	9.0800
15.000	16.5700
15.500	26.2100
16.000	35.5300
16.500	43.6400

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Name: Hertz GHQ Basin      Base Flow(cfs): 0.000      Init Stage(ft): 12.000  
Group: BASE                      Warn Stage(ft): 0.000  
Type: Stage/Volume

Stage(ft)	Volume(af)
11.500	0.0000
12.000	0.0010
12.500	0.7800
13.000	1.5600
13.500	2.3400
14.000	3.1200
14.500	4.5500
15.000	7.7600
15.500	12.4800
16.000	18.3100
16.500	25.2600

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Name: Hertz SC Basin      Base Flow(cfs): 0.000      Init Stage(ft): 12.000  
Group: BASE                      Warn Stage(ft): 0.000  
Type: Stage/Volume

Stage(ft)	Volume(af)
12.500	0.0900
13.000	0.3700
13.500	0.8400
14.000	1.4900
14.500	2.4800
15.000	4.4800
15.500	7.1800
16.000	10.2000
16.500	13.5100

---

Name: Hertz Undev.      Base Flow(cfs): 0.000      Init Stage(ft): 12.000  
Group: BASE                      Warn Stage(ft): 0.000  
Type: Stage/Volume

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Stage(ft)	Volume(af)
14.000	0.0000
14.500	0.4000
15.000	1.8800
15.500	4.2900
16.000	7.3900
16.500	11.2000

---

Name: Junction 4-5	Base Flow(cfs): 0.000	Init Stage(ft): 12.000
Group: BASE	Plunge Factor: 1.00	Warn Stage(ft): 0.000
Type: Manhole, Flat Floor		

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Stage(ft)	Area(ac)
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Name: Lake 5A-1	Base Flow(cfs): 0.000	Init Stage(ft): 12.000
Group: BASE		Warn Stage(ft): 0.000
Type: Stage/Volume		

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Stage(ft)	Volume(af)
12.000	0.0000
12.500	0.0010
13.000	2.4100
13.500	4.8100
14.000	7.2200
14.500	10.2200
15.000	15.7000
15.500	22.9200
16.000	30.8600
16.500	39.5300

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Name: Lake 5A-2  
Group: BASE  
Type: Stage/Volume

Base Flow(cfs): 0.000

Init Stage(ft): 12.000  
Warn Stage(ft): 0.000

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Stage(ft)	Volume(af)
12.000	0.0000
12.500	0.0010
13.000	1.1300
13.500	2.2500
14.000	3.3800
14.500	4.7400
15.000	6.5900
15.500	8.9100
16.000	11.7000
16.500	14.9700

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Name: Lake 5A-3  
Group: BASE  
Type: Stage/Volume

Base Flow(cfs): 0.000

Init Stage(ft): 12.000  
Warn Stage(ft): 0.000

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Stage(ft)	Volume(af)
12.000	0.0000
12.500	0.0010
13.000	1.5700
13.500	3.1300
14.000	4.7000
14.500	6.4900
15.000	8.7500
15.500	11.4500
16.000	14.6200
16.500	18.2400

---

Name: Lake 5A-4  
Group: BASE  
Type: Stage/Volume

Base Flow(cfs): 0.000

Init Stage(ft): 12.000  
Warn Stage(ft): 0.000

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Stage(ft)	Volume(af)
12.000	0.0000
12.500	0.0010
13.000	1.3700
13.500	2.7300
14.000	4.1000
14.500	5.6200
15.000	7.4400
15.500	9.5600
16.000	11.9800
16.500	14.7000

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Name: Lake 5A-5  
Group: BASE  
Type: Stage/Volume

Base Flow(cfs): 0.000

Init Stage(ft): 12.000  
Warn Stage(ft): 0.000

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Stage(ft)	Volume(af)
12.500	0.0000
13.000	0.8200
13.500	1.6400
14.000	2.4600
14.500	3.4700
15.000	4.8300
15.500	6.5500
16.000	8.6400
16.500	11.0800

---

Name: Lake 5A-6  
Group: BASE  
Type: Stage/Volume

Base Flow(cfs): 0.000

Init Stage(ft): 12.000  
Warn Stage(ft): 0.000

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Stage(ft)	Volume(af)
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12.500	0.0000
13.000	2.0900
13.500	4.1800
14.000	6.2700
14.500	8.7100
15.000	11.8200
15.500	15.6200
16.000	20.1000
16.500	25.2600

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Name: Lake 5A-7	Base Flow(cfs): 0.000	Init Stage(ft): 12.000
Group: BASE		Warn Stage(ft): 0.000
Type: Stage/Volume		

Stage(ft)	Volume(af)
12.500	0.0000
13.000	1.8300
13.500	3.6600
14.000	5.4900
14.500	7.7100
15.000	10.6900
15.500	14.4400
16.000	18.9600
16.500	24.2400

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Name: Outfall	Base Flow(cfs): 0.000	Init Stage(ft): 12.500
Group: BASE		Warn Stage(ft): 0.000
Type: Time/Stage		

Time(hrs)	Stage(ft)
0.00	12.500
24.00	12.800
48.00	14.800
72.00	15.100



96.00	14.900
168.00	14.100
336.00	12.500
360.00	12.500

==== Cross Sections =====

Name: CS-5A  
Encroachment: No

Group: BASE

Station(ft)	Elevation(ft)	Manning's N
0.000	16.000	3.200000
0.000	15.120	3.200000
1.583	15.120	3.200000
1.583	12.390	3.200000
2.913	12.390	3.200000
2.913	15.120	3.200000
4.500	15.120	3.200000
4.500	16.000	3.200000

==== Pipes =====

Name: 4-5 -> 5A-7  
Group: BASE

From Node: Junction 4-5  
To Node: Lake 5A-7

Length(ft): 118.00  
Count: 1

	UPSTREAM	DOWNSTREAM
Geometry:	Circular	Circular
Span(in):	36.00	36.00
Rise(in):	36.00	36.00
Invert(ft):	6.500	6.500
Manning's N:	0.012000	0.012000
Top Clip(in):	0.000	0.000
Bot Clip(in):	0.000	0.000

Friction Equation: Automatic  
Solution Algorithm: Automatic  
Flow: Both  
Entrance Loss Coef: 0.70  
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 FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

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

---

Name: 5A-1 -> 5A-2	From Node: Lake 5A-1	Length(ft): 575.00
Group: BASE	To Node: Lake 5A-2	Count: 1
		Friction Equation: Automatic
		Solution Algorithm: Automatic
		Flow: Both
		Entrance Loss Coef: 0.70
		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):	36.00	36.00
Rise(in):	36.00	36.00
Invert(ft):	3.900	1.490
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

---

Name: 5A-2 -> 5A-6	From Node: Lake 5A-2	Length(ft): 238.00
Group: BASE	To Node: Lake 5A-6	Count: 1
		Friction Equation: Automatic
		Solution Algorithm: Automatic
		Flow: Both
		Entrance Loss Coef: 0.70
		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):	36.00	36.00
Rise(in):	36.00	36.00
Invert(ft):	6.430	6.430
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

---

Name: 5A-3 -> 5A-4	From Node: Lake 5A-3	Length(ft): 164.00
Group: BASE	To Node: Lake 5A-4	Count: 1
		Friction Equation: Automatic
		Solution Algorithm: Automatic
		Flow: Both
		Entrance Loss Coef: 0.70
		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):	36.00	36.00
Rise(in):	36.00	36.00
Invert(ft):	6.600	6.600
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

---

Name: 5A-4 -> 4-5	From Node: Lake 5A-4	Length(ft): 89.00
Group: BASE	To Node: Junction 4-5	Count: 1
		Friction Equation: Automatic
		Solution Algorithm: Automatic
		Flow: Both
		Entrance Loss Coef: 0.70
		Exit Loss Coef: 1.00
		Bend Loss Coef: 0.00

	UPSTREAM	DOWNSTREAM
Geometry:	Circular	Circular
Span(in):	36.00	36.00
Rise(in):	36.00	36.00
Invert(ft):	6.500	6.500

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

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

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

---

Name: 5A-5 -> 4-5	From Node: Lake 5A-5	Length(ft): 264.00
Group: BASE	To Node: Junction 4-5	Count: 1
	UPSTREAM	DOWNSTREAM
Geometry: Circular	Circular	Friction Equation: Automatic
Span(in): 36.00	36.00	Solution Algorithm: Automatic
Rise(in): 36.00	36.00	Flow: Both
Invert(ft): 6.500	6.500	Entrance Loss Coef: 0.70
Manning's N: 0.012000	0.012000	Exit Loss Coef: 1.00
Top Clip(in): 0.000	0.000	Bend Loss Coef: 0.00
Bot Clip(in): 0.000	0.000	Outlet Ctrl Spec: Use dc or tw
		Inlet Ctrl Spec: Use dc
		Stabilizer Option: None

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

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

---

Name: 5A-7 -> 5A-6	From Node: Lake 5A-7	Length(ft): 363.00
Group: BASE	To Node: Lake 5A-6	Count: 1
	UPSTREAM	DOWNSTREAM
Geometry: Circular	Circular	Friction Equation: Automatic
		Solution Algorithm: Automatic
		Flow: Both

---

Span(in): 36.00	36.00	Entrance Loss Coef: 0.70
Rise(in): 36.00	36.00	Exit Loss Coef: 1.00
Invert(ft): 6.430	6.430	Bend Loss Coef: 0.00
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	Stabilizer Option: None

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

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

---

Name: F.S. 42" L 5A-7	From Node: F.S. Basin	Length(ft): 176.00
Group: BASE	To Node: Lake 5A-7	Count: 1
		Friction Equation: Automatic
		Solution Algorithm: Automatic
		Flow: Both
		Entrance Loss Coef: 0.70
		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 FHWA Inlet Edge Description:  
Circular Concrete: Square edge w/ headwall

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

---

Name: F.S. 48" L 5A-7	From Node: F.S. Basin	Length(ft): 179.00
Group: BASE	To Node: Lake 5A-7	Count: 1

	UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
	Geometry: Circular	Circular	Solution Algorithm: Automatic
	Span(in): 48.00	48.00	Flow: Both
	Rise(in): 48.00	48.00	Entrance Loss Coef: 0.70
	Invert(ft): 5.300	5.000	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:  
Circular Concrete: Square edge w/ headwall

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

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Name: GHQ 42" 5A-4	From Node: Hertz GHQ Basin	Length(ft): 174.00
Group: BASE	To Node: Lake 5A-4	Count: 1

	UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
	Geometry: Circular	Circular	Solution Algorithm: Automatic
	Span(in): 42.00	42.00	Flow: Both
	Rise(in): 42.00	42.00	Entrance Loss Coef: 0.70
	Invert(ft): 5.500	5.000	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:  
Circular Concrete: Square edge w/ headwall

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

---

Name: GHQ 48" 5A-4	From Node: Hertz GHQ Basin	Length(ft): 163.00
Group: BASE	To Node: Lake 5A-4	Count: 1
		Friction Equation: Automatic
UPSTREAM	DOWNSTREAM	Solution Algorithm: Automatic
Geometry: Circular	Circular	Flow: Both
Span(in): 48.00	48.00	Entrance Loss Coef: 0.70
Rise(in): 48.00	48.00	Exit Loss Coef: 1.00
Invert(ft): 6.500	6.500	Bend Loss Coef: 0.00
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	Stabilizer Option: None

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

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

---

Name: Hz Und -> 5A-3	From Node: Hertz Undev.	Length(ft): 176.00
Group: BASE	To Node: Lake 5A-3	Count: 1
		Friction Equation: Automatic
UPSTREAM	DOWNSTREAM	Solution Algorithm: Automatic
Geometry: Circular	Circular	Flow: Both
Span(in): 48.00	48.00	Entrance Loss Coef: 0.70
Rise(in): 48.00	48.00	Exit Loss Coef: 1.00
Invert(ft): 5.730	5.330	Bend Loss Coef: 0.00
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	Stabilizer Option: None

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

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

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Name: SC 24" 5A-5	From Node: Hertz SC Basin	Length(ft): 163.00
Group: BASE	To Node: Lake 5A-5	Count: 1
		Friction Equation: Automatic
		Solution Algorithm: Automatic
		Flow: Both
UPSTREAM	DOWNSTREAM	Entrance Loss Coef: 0.70
Geometry: Circular	Circular	Exit Loss Coef: 1.00
Span(in): 24.00	24.00	Bend Loss Coef: 0.00
Rise(in): 24.00	24.00	Outlet Ctrl Spec: Use dc or tw
Invert(ft): 6.500	6.500	Inlet Ctrl Spec: Use dc
Manning's N: 0.012000	0.012000	Stabilizer Option: None
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

---

Name: SC 30" 5A-5	From Node: Hertz SC Basin	Length(ft): 175.00
Group: BASE	To Node: Lake 5A-5	Count: 1
		Friction Equation: Automatic
		Solution Algorithm: Automatic
		Flow: Both
UPSTREAM	DOWNSTREAM	Entrance Loss Coef: 0.70
Geometry: Circular	Circular	Exit Loss Coef: 1.00
Span(in): 30.00	30.00	Bend Loss Coef: 0.00
Rise(in): 30.00	30.00	Outlet Ctrl Spec: Use dc or tw
Invert(ft): 6.000	4.660	Inlet Ctrl Spec: Use dc
Manning's N: 0.012000	0.012000	Stabilizer Option: None
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

==== Drop Structures =====

Name: CS	From Node: Lake 5A-6	Length(ft): 300.00
Group: BASE	To Node: Outfall	Count: 1
UPSTREAM	DOWNSTREAM	Friction Equation: Automatic
Geometry: Circular	Circular	Solution Algorithm: Automatic
Span(in): 36.00	36.00	Flow: Both
Rise(in): 36.00	36.00	Entrance Loss Coef: 0.700
Invert(ft): 8.700	8.100	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 2 for Drop Structure CS \*\*\*

Count: 1	Bottom Clip(in): 0.000	TABLE
Type: Horizontal	Top Clip(in): 0.000	
Flow: Both	Weir Disc Coef: 3.200	
Geometry: Circular	Orifice Disc Coef: 0.600	
Span(in): 48.00	Invert(ft): 16.000	
Rise(in): 48.00	Control Elev(ft): 16.000	

\*\*\* Weir 2 of 2 for Drop Structure CS \*\*\*

Count: 1	Bottom Clip(ft): 0.000	TABLE
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Type: Vertical: Mavis                      Top Clip(ft): 0.000  
Flow: Both                                      Weir Disc Coef: 3.200  
Geometry: Irregular                            Orifice Disc Coef: 0.600  
  
Cross Section: CS-5A                            Control Elev(ft): 12.390  
Invert(ft): 12.390                            Struct Opening Dim(ft): 9999.00

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

Name: 25 year1  
Filename: H:\2017\2017084\E\ICPR\Breakout 2\040423-28 Rainfall data files\25 year1.R32

Override Defaults: Yes  
Storm Duration(hrs): 72.00  
Rainfall File: Sfwmd72  
Rainfall Amount(in): 10.19

Time(hrs)	Print Inc(min)
360.000	60.00

-----  
Name: 5YEAR  
Filename: H:\2017\2017084\E\ICPR\Breakout 2\040423-28 Rainfall data files\5YEAR.R32

Override Defaults: Yes  
Storm Duration(hrs): 24.00  
Rainfall File: Flmod  
Rainfall Amount(in): 5.50

Time(hrs)	Print Inc(min)
360.000	60.00

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

Name: 25 year1                      Hydrology Sim: 25 year1  
Filename: H:\2017\2017084\E\ICPR\Breakout 2\040423-28 Rainfall data files\25 year1.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): 360.00  
Min Calc Time(sec): 0.5000                Max Calc Time(sec): 60.0000  
Boundary Stages:                    Boundary Flows:

Time(hrs)	Print Inc(min)
360.000	60.000
Group	Run
BASE	Yes

---

Name: 5YEAR                    Hydrology Sim: 5YEAR  
Filename: H:\2017\2017084\E\ICPR\Breakout 2\040423-28 Rainfall data files\5YEAR.I32

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

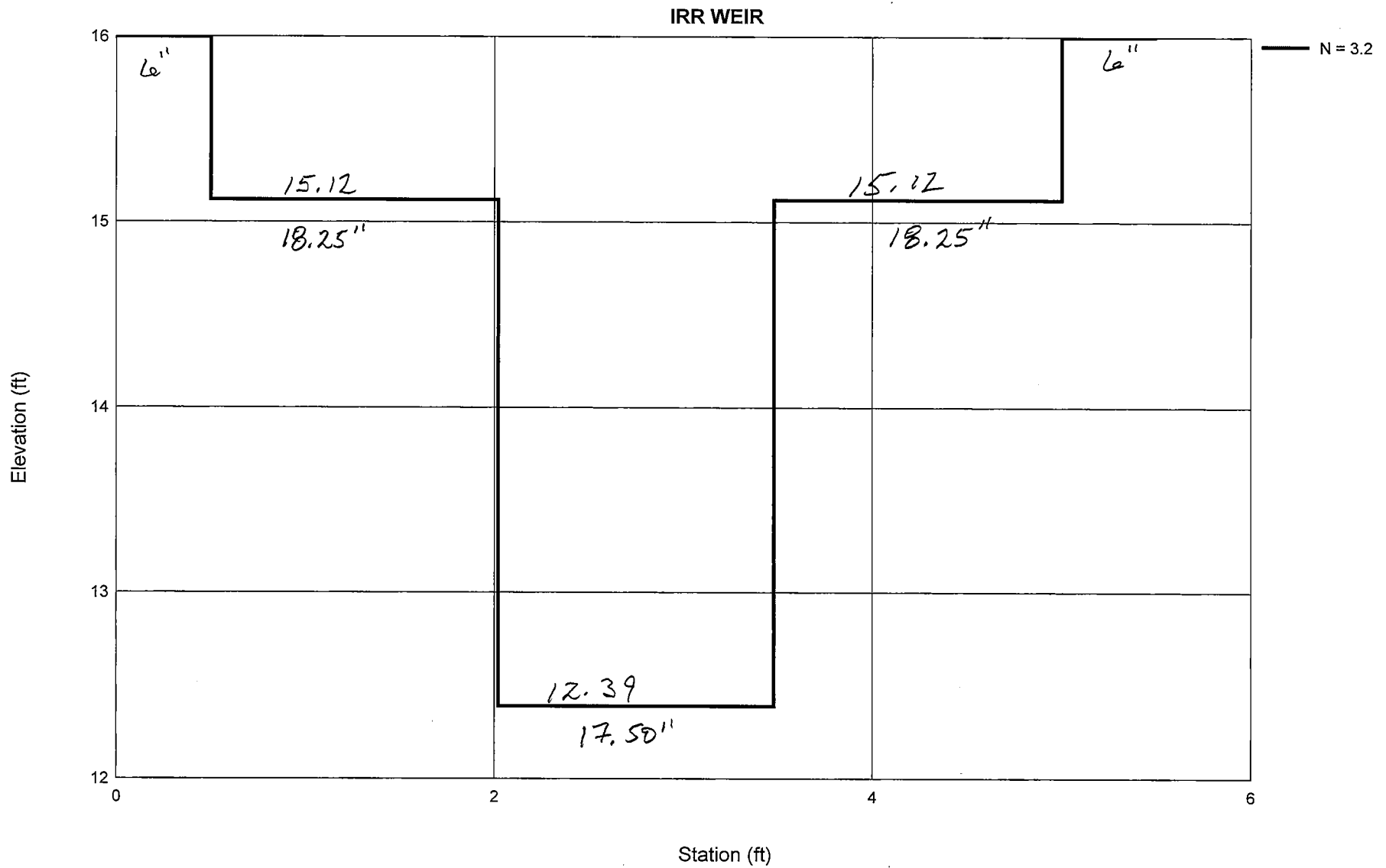
Max Delta Z(ft): 1.00                    Delta Z Factor: 0.00500  
Time Step Optimizer: 10.000  
Start Time(hrs): 0.000                    End Time(hrs): 360.00  
Min Calc Time(sec): 0.5000                Max Calc Time(sec): 60.0000  
Boundary Stages:                    Boundary Flows:

Time(hrs)	Print Inc(min)
360.000	60.000
Group	Run
BASE	Yes



Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
F. S. BASIN	BASE	005Y24H	94.07	14.86	0.00	0.0003	340452	12.25	44.52	12.25	33.74
HERTZ GHQ BASIN	BASE	005Y24H	96.27	14.86	0.00	0.0004	172802	12.25	48.91	12.29	24.80
HERTZ SC BASIN	BASE	005Y24H	95.99	14.86	0.00	0.0004	184114	12.25	17.15	12.01	1.82
HERTZ UNDEV	BASE	005Y24H	96.25	14.86	0.00	0.0030	145189	12.25	21.54	12.25	21.49
JUNCTION 4-5	BASE	005Y24H	95.46	14.87	0.00	0.0071	148	14.90	10.50	14.94	8.06
LAKE 5A-1	BASE	005Y24H	93.42	14.86	0.00	0.0003	502998	12.25	43.30	26.78	1.48
LAKE 5A-2	BASE	005Y24H	93.41	14.86	0.00	0.0003	170274	12.25	20.23	26.78	2.09
LAKE 5A-3	BASE	005Y24H	96.26	14.86	0.00	0.0004	205097	12.25	46.32	15.81	2.44
LAKE 5A-4	BASE	005Y24H	96.27	14.86	0.00	0.0004	164430	12.25	41.54	13.21	8.91
LAKE 5A-5	BASE	005Y24H	95.99	14.86	0.00	0.0004	125634	12.15	18.55	25.59	2.98
LAKE 5A-6	BASE	005Y24H	93.42	14.86	0.00	0.0003	284851	12.25	47.16	22.69	11.55
LAKE 5A-7	BASE	005Y24H	94.09	14.86	0.00	0.0004	274963	12.25	67.31	12.79	15.72
TAILWATER	BASE	005Y24H	72.00	15.10	0.00	0.1100	0	22.69	11.55	0.00	0.00
F. S. BASIN	BASE	025Y24H	72.02	15.60	0.00	0.0004	568981	60.00	66.08	73.82	2.01
HERTZ GHQ BASIN	BASE	025Y24H	68.97	15.65	0.00	0.0004	469375	60.00	72.60	60.13	20.66
HERTZ SC BASIN	BASE	025Y24H	69.37	15.64	0.00	0.0003	256561	60.00	25.45	75.47	0.95
HERTZ UNDEV	BASE	025Y24H	69.00	15.65	0.00	-0.0065	258568	60.00	31.97	49.31	4.37
JUNCTION 4-5	BASE	025Y24H	71.00	15.64	0.00	0.0073	148	62.46	9.63	66.40	7.06
LAKE 5A-1	BASE	025Y24H	72.17	15.49	0.00	0.0003	658476	60.00	64.27	77.46	1.86
LAKE 5A-2	BASE	025Y24H	72.12	15.49	0.00	0.0004	221610	60.00	28.75	76.96	2.49
LAKE 5A-3	BASE	025Y24H	68.99	15.65	0.00	0.0004	267889	60.00	36.20	62.65	2.57
LAKE 5A-4	BASE	025Y24H	68.99	15.65	0.00	0.0004	205554	60.00	41.67	60.55	10.03
LAKE 5A-5	BASE	025Y24H	69.34	15.64	0.00	0.0004	174666	60.00	21.33	78.22	2.95
LAKE 5A-6	BASE	025Y24H	72.12	15.48	0.00	0.0004	358560	60.00	53.46	65.03	13.66
LAKE 5A-7	BASE	025Y24H	72.01	15.60	0.00	0.0004	374169	60.00	55.96	66.02	9.79
TAILWATER	BASE	025Y24H	72.00	15.10	0.00	0.1100	0	65.03	13.66	0.00	0.00

NEW MODEL 3 - IRREGULAR WEIR  
DISCHARGE PIPE TO 48"  
INCREASED WEIR



NEW MODEL 3 - IRREGULAR WEIR  
 DISCHARGE PIPE TO 48"  
 INCREASED WEIR

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	0.00	12.39	0.00	51066	0.00	-0.17
025Y24H	LAKE 5A-6	BASE	0.50	12.39	0.00	51520	-0.10	-0.18
025Y24H	LAKE 5A-6	BASE	1.00	12.39	0.00	51929	-0.19	-0.20
025Y24H	LAKE 5A-6	BASE	1.50	12.39	0.00	52362	-0.19	-0.21
025Y24H	LAKE 5A-6	BASE	2.00	12.39	0.00	52824	-0.09	-0.23
025Y24H	LAKE 5A-6	BASE	2.50	12.40	0.00	53314	-0.20	-0.24
025Y24H	LAKE 5A-6	BASE	3.00	12.40	0.00	53845	-0.11	-0.26
025Y24H	LAKE 5A-6	BASE	3.50	12.40	0.00	54652	-0.16	-0.28
025Y24H	LAKE 5A-6	BASE	4.00	12.40	0.00	56069	-0.06	-0.29
025Y24H	LAKE 5A-6	BASE	4.50	12.41	0.00	58185	-0.05	-0.31
025Y24H	LAKE 5A-6	BASE	5.00	12.42	0.00	60934	-0.05	-0.32
025Y24H	LAKE 5A-6	BASE	5.50	12.43	0.00	64187	0.05	-0.34
025Y24H	LAKE 5A-6	BASE	6.00	12.44	0.00	67819	0.10	-0.35
025Y24H	LAKE 5A-6	BASE	6.50	12.45	0.00	71731	0.11	-0.36
025Y24H	LAKE 5A-6	BASE	7.00	12.46	0.00	75840	0.13	-0.37
025Y24H	LAKE 5A-6	BASE	7.50	12.47	0.00	80084	0.16	-0.38
025Y24H	LAKE 5A-6	BASE	8.00	12.48	0.00	84417	0.19	-0.39
025Y24H	LAKE 5A-6	BASE	8.50	12.49	0.00	88804	0.21	-0.39
025Y24H	LAKE 5A-6	BASE	9.00	12.51	0.00	92158	0.24	-0.40
025Y24H	LAKE 5A-6	BASE	9.50	12.52	0.00	94419	0.26	-0.41
025Y24H	LAKE 5A-6	BASE	10.00	12.53	0.00	96723	0.28	-0.41
025Y24H	LAKE 5A-6	BASE	10.50	12.54	0.00	99061	0.30	-0.41
025Y24H	LAKE 5A-6	BASE	11.00	12.56	0.00	101423	0.33	-0.41
025Y24H	LAKE 5A-6	BASE	11.50	12.57	0.00	103800	0.35	-0.41
025Y24H	LAKE 5A-6	BASE	12.00	12.58	0.00	106188	0.37	-0.41
025Y24H	LAKE 5A-6	BASE	12.50	12.60	0.00	108578	0.39	-0.40
025Y24H	LAKE 5A-6	BASE	13.00	12.61	0.00	110965	0.42	-0.39
025Y24H	LAKE 5A-6	BASE	13.50	12.62	0.00	113344	0.45	-0.38
025Y24H	LAKE 5A-6	BASE	14.00	12.64	0.00	115709	0.48	-0.36
025Y24H	LAKE 5A-6	BASE	14.50	12.65	0.00	118055	0.52	-0.33
025Y24H	LAKE 5A-6	BASE	15.00	12.66	0.00	120377	0.56	-0.29
025Y24H	LAKE 5A-6	BASE	15.50	12.67	0.00	122670	0.61	-0.24
025Y24H	LAKE 5A-6	BASE	16.00	12.69	0.00	124928	0.67	-0.19
025Y24H	LAKE 5A-6	BASE	16.50	12.70	0.00	127146	0.74	-0.12
025Y24H	LAKE 5A-6	BASE	17.00	12.71	0.00	129318	0.81	-0.04
025Y24H	LAKE 5A-6	BASE	17.50	12.72	0.00	131442	0.89	0.05
025Y24H	LAKE 5A-6	BASE	18.00	12.73	0.00	133521	0.97	0.13
025Y24H	LAKE 5A-6	BASE	18.50	12.74	0.00	135564	1.03	0.19
025Y24H	LAKE 5A-6	BASE	19.00	12.76	0.00	137575	1.10	0.26
025Y24H	LAKE 5A-6	BASE	19.50	12.77	0.00	139555	1.15	0.31
025Y24H	LAKE 5A-6	BASE	20.00	12.78	0.00	141507	1.20	0.36
025Y24H	LAKE 5A-6	BASE	20.50	12.79	0.00	143433	1.25	0.41
025Y24H	LAKE 5A-6	BASE	21.00	12.80	0.00	145332	1.30	0.46
025Y24H	LAKE 5A-6	BASE	21.50	12.81	0.00	147207	1.34	0.50
025Y24H	LAKE 5A-6	BASE	22.00	12.82	0.00	149058	1.38	0.54
025Y24H	LAKE 5A-6	BASE	22.50	12.83	0.00	150886	1.42	0.59
025Y24H	LAKE 5A-6	BASE	23.00	12.84	0.00	152691	1.46	0.62
025Y24H	LAKE 5A-6	BASE	23.50	12.85	0.00	154474	1.50	0.66
025Y24H	LAKE 5A-6	BASE	24.00	12.86	0.00	156236	1.54	0.70
025Y24H	LAKE 5A-6	BASE	24.50	12.87	0.00	158314	1.60	0.44
025Y24H	LAKE 5A-6	BASE	25.00	12.88	0.00	160941	1.41	0.01
025Y24H	LAKE 5A-6	BASE	25.50	12.90	0.00	163929	1.12	-0.43
025Y24H	LAKE 5A-6	BASE	26.00	12.92	0.00	167066	0.86	-0.76
025Y24H	LAKE 5A-6	BASE	26.50	12.94	0.00	170261	0.64	-1.03
025Y24H	LAKE 5A-6	BASE	27.00	12.95	0.00	173487	0.44	-1.28
025Y24H	LAKE 5A-6	BASE	27.50	12.97	0.00	176739	0.25	-1.52
025Y24H	LAKE 5A-6	BASE	28.00	12.99	0.00	180012	0.06	-1.75
025Y24H	LAKE 5A-6	BASE	28.50	13.01	0.00	182083	-0.12	-1.97
025Y24H	LAKE 5A-6	BASE	29.00	13.03	0.00	182085	-0.28	-2.20
025Y24H	LAKE 5A-6	BASE	29.50	13.04	0.00	182086	-0.45	-2.43
025Y24H	LAKE 5A-6	BASE	30.00	13.06	0.00	182088	-0.68	-2.65
025Y24H	LAKE 5A-6	BASE	30.50	13.08	0.00	182090	-0.86	-2.88
025Y24H	LAKE 5A-6	BASE	31.00	13.10	0.00	182091	-1.05	-3.11
025Y24H	LAKE 5A-6	BASE	31.50	13.12	0.00	182093	-1.24	-3.35
025Y24H	LAKE 5A-6	BASE	32.00	13.14	0.00	182095	-1.43	-3.58
025Y24H	LAKE 5A-6	BASE	32.50	13.17	0.00	182097	-1.62	-3.82
025Y24H	LAKE 5A-6	BASE	33.00	13.19	0.00	182099	-1.82	-4.06
025Y24H	LAKE 5A-6	BASE	33.50	13.21	0.00	182101	-2.01	-4.30
025Y24H	LAKE 5A-6	BASE	34.00	13.23	0.00	182103	-2.21	-4.54
025Y24H	LAKE 5A-6	BASE	34.50	13.26	0.00	182105	-2.41	-4.79

NEW MODEL 3 - IRREGULAR WEIR  
DISCHARGE PIPE TO 48"  
INCREASED WEIR

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	35.00	13.28	0.00	182107	-2.62	-5.03
025Y24H	LAKE 5A-6	BASE	35.50	13.30	0.00	182109	-2.82	-5.28
025Y24H	LAKE 5A-6	BASE	36.00	13.33	0.00	182111	-3.03	-5.53
025Y24H	LAKE 5A-6	BASE	36.50	13.35	0.00	182113	-3.23	-5.79
025Y24H	LAKE 5A-6	BASE	37.00	13.38	0.00	182115	-3.39	-6.04
025Y24H	LAKE 5A-6	BASE	37.50	13.40	0.00	182118	-3.76	-6.30
025Y24H	LAKE 5A-6	BASE	38.00	13.43	0.00	182120	-3.99	-6.55
025Y24H	LAKE 5A-6	BASE	38.50	13.46	0.00	182122	-4.19	-6.81
025Y24H	LAKE 5A-6	BASE	39.00	13.49	0.00	182125	-4.36	-7.07
025Y24H	LAKE 5A-6	BASE	39.50	13.51	0.00	182518	-4.50	-7.33
025Y24H	LAKE 5A-6	BASE	40.00	13.54	0.00	183375	-4.70	-7.59
025Y24H	LAKE 5A-6	BASE	40.50	13.57	0.00	184243	-5.00	-7.85
025Y24H	LAKE 5A-6	BASE	41.00	13.60	0.00	185122	-5.15	-8.12
025Y24H	LAKE 5A-6	BASE	41.50	13.63	0.00	186005	-5.40	-8.38
025Y24H	LAKE 5A-6	BASE	42.00	13.66	0.00	186899	-5.54	-8.65
025Y24H	LAKE 5A-6	BASE	42.50	13.69	0.00	187800	-5.82	-8.92
025Y24H	LAKE 5A-6	BASE	43.00	13.72	0.00	188712	-6.03	-9.18
025Y24H	LAKE 5A-6	BASE	43.50	13.75	0.00	189636	-6.24	-9.45
025Y24H	LAKE 5A-6	BASE	44.00	13.78	0.00	190570	-6.46	-9.72
025Y24H	LAKE 5A-6	BASE	44.50	13.81	0.00	191513	-6.69	-9.99
025Y24H	LAKE 5A-6	BASE	45.00	13.84	0.00	192465	-6.91	-10.26
025Y24H	LAKE 5A-6	BASE	45.50	13.87	0.00	193425	-7.14	-10.53
025Y24H	LAKE 5A-6	BASE	46.00	13.90	0.00	194394	-7.36	-10.81
025Y24H	LAKE 5A-6	BASE	46.50	13.93	0.00	195370	-7.59	-11.08
025Y24H	LAKE 5A-6	BASE	47.00	13.97	0.00	196355	-7.82	-11.35
025Y24H	LAKE 5A-6	BASE	47.50	14.00	0.00	197347	-8.04	-11.63
025Y24H	LAKE 5A-6	BASE	48.00	14.03	0.00	200205	-8.26	-11.90
025Y24H	LAKE 5A-6	BASE	48.50	14.06	0.00	203040	-8.26	-11.80
025Y24H	LAKE 5A-6	BASE	49.00	14.09	0.00	205786	-8.21	-11.69
025Y24H	LAKE 5A-6	BASE	49.50	14.12	0.00	208458	-8.15	-11.59
025Y24H	LAKE 5A-6	BASE	50.00	14.15	0.00	211064	-8.09	-11.48
025Y24H	LAKE 5A-6	BASE	50.50	14.18	0.00	213647	-7.89	-11.37
025Y24H	LAKE 5A-6	BASE	51.00	14.21	0.00	216238	-7.76	-11.24
025Y24H	LAKE 5A-6	BASE	51.50	14.24	0.00	218821	-7.58	-11.12
025Y24H	LAKE 5A-6	BASE	52.00	14.27	0.00	221387	-7.45	-10.98
025Y24H	LAKE 5A-6	BASE	52.50	14.30	0.00	224012	-7.04	-10.83
025Y24H	LAKE 5A-6	BASE	53.00	14.33	0.00	226732	-6.78	-10.65
025Y24H	LAKE 5A-6	BASE	53.50	14.36	0.00	229554	-6.28	-10.46
025Y24H	LAKE 5A-6	BASE	54.00	14.40	0.00	232481	-5.97	-10.24
025Y24H	LAKE 5A-6	BASE	54.50	14.43	0.00	235504	-5.41	-9.99
025Y24H	LAKE 5A-6	BASE	55.00	14.46	0.00	238616	-5.05	-9.70
025Y24H	LAKE 5A-6	BASE	55.50	14.50	0.00	241801	-4.46	-9.38
025Y24H	LAKE 5A-6	BASE	56.00	14.54	0.00	246133	-4.03	-9.02
025Y24H	LAKE 5A-6	BASE	56.50	14.57	0.00	250560	-3.28	-8.61
025Y24H	LAKE 5A-6	BASE	57.00	14.61	0.00	255055	-2.81	-8.15
025Y24H	LAKE 5A-6	BASE	57.50	14.65	0.00	259645	-1.89	-7.62
025Y24H	LAKE 5A-6	BASE	58.00	14.69	0.00	264434	-0.96	-7.00
025Y24H	LAKE 5A-6	BASE	58.50	14.73	0.00	269403	0.12	-6.28
025Y24H	LAKE 5A-6	BASE	59.00	14.78	0.00	274888	2.26	-5.35
025Y24H	LAKE 5A-6	BASE	59.50	14.84	0.00	281997	6.92	-3.88
025Y24H	LAKE 5A-6	BASE	60.00	15.03	0.00	304699	53.50	3.20
025Y24H	LAKE 5A-6	BASE	60.50	15.25	0.00	330672	36.41	9.36
025Y24H	LAKE 5A-6	BASE	61.00	15.35	0.00	343120	24.26	11.94
025Y24H	LAKE 5A-6	BASE	61.50	15.39	0.00	348174	17.01	12.90
025Y24H	LAKE 5A-6	BASE	62.00	15.41	0.00	349834	14.50	13.16
025Y24H	LAKE 5A-6	BASE	62.50	15.42	0.00	350580	14.31	13.22
025Y24H	LAKE 5A-6	BASE	63.00	15.42	0.00	351376	14.83	13.29
025Y24H	LAKE 5A-6	BASE	63.50	15.43	0.00	352476	15.25	13.43
025Y24H	LAKE 5A-6	BASE	64.00	15.44	0.00	353590	15.38	13.57
025Y24H	LAKE 5A-6	BASE	64.50	15.45	0.00	354438	14.66	13.66
025Y24H	LAKE 5A-6	BASE	65.00	15.45	0.00	354966	14.41	13.67
025Y24H	LAKE 5A-6	BASE	65.50	15.46	0.00	355392	14.34	13.67
025Y24H	LAKE 5A-6	BASE	66.00	15.46	0.00	355799	14.34	13.66
025Y24H	LAKE 5A-6	BASE	66.50	15.46	0.00	356214	14.35	13.65
025Y24H	LAKE 5A-6	BASE	67.00	15.47	0.00	356636	14.35	13.65
025Y24H	LAKE 5A-6	BASE	67.50	15.47	0.00	357060	14.35	13.64
025Y24H	LAKE 5A-6	BASE	68.00	15.47	0.00	357484	14.34	13.63
025Y24H	LAKE 5A-6	BASE	68.50	15.48	0.00	357780	13.89	13.60
025Y24H	LAKE 5A-6	BASE	69.00	15.48	0.00	357918	13.69	13.52
025Y24H	LAKE 5A-6	BASE	69.50	15.48	0.00	358013	13.59	13.44

NEW MODEL 3 - IRREGULAR WEIR  
DISCHARGE PIPE TO 48"  
INCREASED WEIR



Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	70.00	15.48	0.00	358108	13.52	13.36
025Y24H	LAKE 5A-6	BASE	70.50	15.48	0.00	358217	13.47	13.27
025Y24H	LAKE 5A-6	BASE	71.00	15.48	0.00	358340	13.41	13.19
025Y24H	LAKE 5A-6	BASE	71.50	15.48	0.00	358473	13.34	13.11
025Y24H	LAKE 5A-6	BASE	72.00	15.48	0.00	358612	13.27	13.03
025Y24H	LAKE 5A-6	BASE	72.50	15.48	0.00	358462	12.40	13.09
025Y24H	LAKE 5A-6	BASE	73.00	15.48	0.00	357954	12.07	13.07
025Y24H	LAKE 5A-6	BASE	73.50	15.47	0.00	357333	11.94	13.02
025Y24H	LAKE 5A-6	BASE	74.00	15.47	0.00	356690	11.90	12.96
025Y24H	LAKE 5A-6	BASE	74.50	15.46	0.00	356057	11.88	12.91
025Y24H	LAKE 5A-6	BASE	75.00	15.46	0.00	355435	11.84	12.86
025Y24H	LAKE 5A-6	BASE	75.50	15.45	0.00	354817	11.79	12.81
025Y24H	LAKE 5A-6	BASE	76.00	15.45	0.00	354201	11.75	12.76
025Y24H	LAKE 5A-6	BASE	76.50	15.44	0.00	353584	11.70	12.72
025Y24H	LAKE 5A-6	BASE	77.00	15.44	0.00	352968	11.65	12.67
025Y24H	LAKE 5A-6	BASE	77.50	15.43	0.00	352350	11.60	12.62
025Y24H	LAKE 5A-6	BASE	78.00	15.42	0.00	351733	11.56	12.57
025Y24H	LAKE 5A-6	BASE	78.50	15.42	0.00	351115	11.51	12.52
025Y24H	LAKE 5A-6	BASE	79.00	15.41	0.00	350496	11.46	12.47
025Y24H	LAKE 5A-6	BASE	79.50	15.41	0.00	349877	11.41	12.42
025Y24H	LAKE 5A-6	BASE	80.00	15.40	0.00	349257	11.36	12.37
025Y24H	LAKE 5A-6	BASE	80.50	15.40	0.00	348636	11.31	12.32
025Y24H	LAKE 5A-6	BASE	81.00	15.39	0.00	348014	11.26	12.27
025Y24H	LAKE 5A-6	BASE	81.50	15.39	0.00	347392	11.22	12.22
025Y24H	LAKE 5A-6	BASE	82.00	15.38	0.00	346769	11.17	12.17
025Y24H	LAKE 5A-6	BASE	82.50	15.38	0.00	346145	11.12	12.13
025Y24H	LAKE 5A-6	BASE	83.00	15.37	0.00	345521	11.07	12.08
025Y24H	LAKE 5A-6	BASE	83.50	15.37	0.00	344895	11.02	12.03
025Y24H	LAKE 5A-6	BASE	84.00	15.36	0.00	344269	10.98	11.98
025Y24H	LAKE 5A-6	BASE	84.50	15.36	0.00	343642	10.93	11.93
025Y24H	LAKE 5A-6	BASE	85.00	15.35	0.00	343014	10.88	11.88
025Y24H	LAKE 5A-6	BASE	85.50	15.35	0.00	342386	10.84	11.84
025Y24H	LAKE 5A-6	BASE	86.00	15.34	0.00	341756	10.79	11.79
025Y24H	LAKE 5A-6	BASE	86.50	15.34	0.00	341127	10.74	11.74
025Y24H	LAKE 5A-6	BASE	87.00	15.33	0.00	340496	10.70	11.70
025Y24H	LAKE 5A-6	BASE	87.50	15.33	0.00	339865	10.65	11.65
025Y24H	LAKE 5A-6	BASE	88.00	15.32	0.00	339234	10.60	11.60
025Y24H	LAKE 5A-6	BASE	88.50	15.31	0.00	338602	10.56	11.56
025Y24H	LAKE 5A-6	BASE	89.00	15.31	0.00	337970	10.51	11.51
025Y24H	LAKE 5A-6	BASE	89.50	15.30	0.00	337337	10.47	11.46
025Y24H	LAKE 5A-6	BASE	90.00	15.30	0.00	336704	10.43	11.42
025Y24H	LAKE 5A-6	BASE	90.50	15.29	0.00	336070	10.38	11.37
025Y24H	LAKE 5A-6	BASE	91.00	15.29	0.00	335436	10.34	11.33
025Y24H	LAKE 5A-6	BASE	91.50	15.28	0.00	334802	10.29	11.28
025Y24H	LAKE 5A-6	BASE	92.00	15.28	0.00	334167	10.25	11.24
025Y24H	LAKE 5A-6	BASE	92.50	15.27	0.00	333531	10.21	11.20
025Y24H	LAKE 5A-6	BASE	93.00	15.27	0.00	332895	10.17	11.15
025Y24H	LAKE 5A-6	BASE	93.50	15.26	0.00	332259	10.12	11.11
025Y24H	LAKE 5A-6	BASE	94.00	15.26	0.00	331623	10.08	11.06
025Y24H	LAKE 5A-6	BASE	94.50	15.25	0.00	330988	10.04	11.02
025Y24H	LAKE 5A-6	BASE	95.00	15.25	0.00	330352	9.99	10.97
025Y24H	LAKE 5A-6	BASE	95.50	15.24	0.00	329717	9.95	10.93
025Y24H	LAKE 5A-6	BASE	96.00	15.23	0.00	329082	9.91	10.88
025Y24H	LAKE 5A-6	BASE	96.50	15.23	0.00	328447	9.87	10.84
025Y24H	LAKE 5A-6	BASE	97.00	15.22	0.00	327811	9.83	10.80
025Y24H	LAKE 5A-6	BASE	97.50	15.22	0.00	327175	9.78	10.75
025Y24H	LAKE 5A-6	BASE	98.00	15.21	0.00	326538	9.74	10.71
025Y24H	LAKE 5A-6	BASE	98.50	15.21	0.00	325902	9.70	10.67
025Y24H	LAKE 5A-6	BASE	99.00	15.20	0.00	325265	9.66	10.63
025Y24H	LAKE 5A-6	BASE	99.50	15.20	0.00	324627	9.62	10.59
025Y24H	LAKE 5A-6	BASE	100.00	15.19	0.00	323989	9.59	10.55
025Y24H	LAKE 5A-6	BASE	100.50	15.19	0.00	323351	9.55	10.51
025Y24H	LAKE 5A-6	BASE	101.00	15.18	0.00	322712	9.51	10.47
025Y24H	LAKE 5A-6	BASE	101.50	15.18	0.00	322072	9.47	10.43
025Y24H	LAKE 5A-6	BASE	102.00	15.17	0.00	321432	9.44	10.40
025Y24H	LAKE 5A-6	BASE	102.50	15.17	0.00	320791	9.40	10.36
025Y24H	LAKE 5A-6	BASE	103.00	15.16	0.00	320149	9.37	10.32
025Y24H	LAKE 5A-6	BASE	103.50	15.15	0.00	319506	9.33	10.29
025Y24H	LAKE 5A-6	BASE	104.00	15.15	0.00	318862	9.30	10.26
025Y24H	LAKE 5A-6	BASE	104.50	15.14	0.00	318218	9.27	10.22

NEW MODEL 3 - IRREGULAR WEIR  
DISCHARGE PIPE TO 48"  
INCREASED WEIR

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	105.00	15.14	0.00	317571	9.24	10.19
025Y24H	LAKE 5A-6	BASE	105.50	15.13	0.00	316924	9.21	10.16
025Y24H	LAKE 5A-6	BASE	106.00	15.13	0.00	316275	9.18	10.13
025Y24H	LAKE 5A-6	BASE	106.50	15.12	0.00	315624	9.15	10.11
025Y24H	LAKE 5A-6	BASE	107.00	15.12	0.00	314970	9.12	10.08
025Y24H	LAKE 5A-6	BASE	107.50	15.11	0.00	314314	9.10	10.06
025Y24H	LAKE 5A-6	BASE	108.00	15.11	0.00	313656	9.08	10.04
025Y24H	LAKE 5A-6	BASE	108.50	15.10	0.00	312996	9.05	10.02
025Y24H	LAKE 5A-6	BASE	109.00	15.09	0.00	312335	9.03	9.99
025Y24H	LAKE 5A-6	BASE	109.50	15.09	0.00	311672	9.01	9.97
025Y24H	LAKE 5A-6	BASE	110.00	15.08	0.00	311009	8.98	9.95
025Y24H	LAKE 5A-6	BASE	110.50	15.08	0.00	310344	8.96	9.92
025Y24H	LAKE 5A-6	BASE	111.00	15.07	0.00	309678	8.94	9.90
025Y24H	LAKE 5A-6	BASE	111.50	15.07	0.00	309012	8.91	9.87
025Y24H	LAKE 5A-6	BASE	112.00	15.06	0.00	308345	8.89	9.85
025Y24H	LAKE 5A-6	BASE	112.50	15.06	0.00	307676	8.87	9.83
025Y24H	LAKE 5A-6	BASE	113.00	15.05	0.00	307007	8.84	9.80
025Y24H	LAKE 5A-6	BASE	113.50	15.04	0.00	306337	8.82	9.78
025Y24H	LAKE 5A-6	BASE	114.00	15.04	0.00	305666	8.80	9.75
025Y24H	LAKE 5A-6	BASE	114.50	15.03	0.00	304995	8.77	9.73
025Y24H	LAKE 5A-6	BASE	115.00	15.03	0.00	304323	8.75	9.70
025Y24H	LAKE 5A-6	BASE	115.50	15.02	0.00	303650	8.73	9.68
025Y24H	LAKE 5A-6	BASE	116.00	15.02	0.00	302976	8.70	9.65
025Y24H	LAKE 5A-6	BASE	116.50	15.01	0.00	302303	8.68	9.63
025Y24H	LAKE 5A-6	BASE	117.00	15.00	0.00	301628	8.66	9.60
025Y24H	LAKE 5A-6	BASE	117.50	15.00	0.00	300953	8.63	9.58
025Y24H	LAKE 5A-6	BASE	118.00	14.99	0.00	300282	8.61	9.55
025Y24H	LAKE 5A-6	BASE	118.50	14.99	0.00	299611	8.58	9.53
025Y24H	LAKE 5A-6	BASE	119.00	14.98	0.00	298939	8.56	9.50
025Y24H	LAKE 5A-6	BASE	119.50	14.98	0.00	298266	8.54	9.48
025Y24H	LAKE 5A-6	BASE	120.00	14.97	0.00	297592	8.51	9.45
025Y24H	LAKE 5A-6	BASE	120.50	14.97	0.00	296917	8.49	9.43
025Y24H	LAKE 5A-6	BASE	121.00	14.96	0.00	296242	8.46	9.40
025Y24H	LAKE 5A-6	BASE	121.50	14.95	0.00	295566	8.44	9.38
025Y24H	LAKE 5A-6	BASE	122.00	14.95	0.00	294888	8.41	9.35
025Y24H	LAKE 5A-6	BASE	122.50	14.94	0.00	294210	8.39	9.32
025Y24H	LAKE 5A-6	BASE	123.00	14.94	0.00	293531	8.36	9.30
025Y24H	LAKE 5A-6	BASE	123.50	14.93	0.00	292851	8.34	9.27
025Y24H	LAKE 5A-6	BASE	124.00	14.93	0.00	292170	8.31	9.24
025Y24H	LAKE 5A-6	BASE	124.50	14.92	0.00	291488	8.29	9.22
025Y24H	LAKE 5A-6	BASE	125.00	14.91	0.00	290806	8.26	9.19
025Y24H	LAKE 5A-6	BASE	125.50	14.91	0.00	290122	8.23	9.16
025Y24H	LAKE 5A-6	BASE	126.00	14.90	0.00	289437	8.21	9.14
025Y24H	LAKE 5A-6	BASE	126.50	14.90	0.00	288751	8.18	9.11
025Y24H	LAKE 5A-6	BASE	127.00	14.89	0.00	288065	8.16	9.08
025Y24H	LAKE 5A-6	BASE	127.50	14.88	0.00	287377	8.13	9.06
025Y24H	LAKE 5A-6	BASE	128.00	14.88	0.00	286688	8.10	9.03
025Y24H	LAKE 5A-6	BASE	128.50	14.87	0.00	285999	8.08	9.00
025Y24H	LAKE 5A-6	BASE	129.00	14.87	0.00	285309	8.05	8.97
025Y24H	LAKE 5A-6	BASE	129.50	14.86	0.00	284617	8.02	8.95
025Y24H	LAKE 5A-6	BASE	130.00	14.86	0.00	283925	8.00	8.92
025Y24H	LAKE 5A-6	BASE	130.50	14.85	0.00	283233	7.97	8.89
025Y24H	LAKE 5A-6	BASE	131.00	14.84	0.00	282539	7.94	8.86
025Y24H	LAKE 5A-6	BASE	131.50	14.84	0.00	281845	7.92	8.83
025Y24H	LAKE 5A-6	BASE	132.00	14.83	0.00	281149	7.89	8.81
025Y24H	LAKE 5A-6	BASE	132.50	14.83	0.00	280452	7.86	8.78
025Y24H	LAKE 5A-6	BASE	133.00	14.82	0.00	279755	7.83	8.75
025Y24H	LAKE 5A-6	BASE	133.50	14.81	0.00	279056	7.81	8.72
025Y24H	LAKE 5A-6	BASE	134.00	14.81	0.00	278356	7.78	8.69
025Y24H	LAKE 5A-6	BASE	134.50	14.80	0.00	277655	7.75	8.66
025Y24H	LAKE 5A-6	BASE	135.00	14.80	0.00	276954	7.72	8.63
025Y24H	LAKE 5A-6	BASE	135.50	14.79	0.00	276251	7.69	8.61
025Y24H	LAKE 5A-6	BASE	136.00	14.78	0.00	275548	7.67	8.58
025Y24H	LAKE 5A-6	BASE	136.50	14.78	0.00	274844	7.64	8.55
025Y24H	LAKE 5A-6	BASE	137.00	14.77	0.00	274138	7.61	8.52
025Y24H	LAKE 5A-6	BASE	137.50	14.77	0.00	273432	7.58	8.49
025Y24H	LAKE 5A-6	BASE	138.00	14.76	0.00	272724	7.55	8.46
025Y24H	LAKE 5A-6	BASE	138.50	14.75	0.00	272016	7.52	8.43
025Y24H	LAKE 5A-6	BASE	139.00	14.75	0.00	271306	7.50	8.40
025Y24H	LAKE 5A-6	BASE	139.50	14.74	0.00	270595	7.47	8.37

NEW MODEL 3 - IRREGULAR WEIR  
DISCHARGE PIPE TO 48"  
INCREASED WEIR

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	140.00	14.74	0.00	269883	7.44	8.34
025Y24H	LAKE 5A-6	BASE	140.50	14.73	0.00	269170	7.41	8.31
025Y24H	LAKE 5A-6	BASE	141.00	14.72	0.00	268457	7.38	8.28
025Y24H	LAKE 5A-6	BASE	141.50	14.72	0.00	267742	7.35	8.25
025Y24H	LAKE 5A-6	BASE	142.00	14.71	0.00	267027	7.32	8.22
025Y24H	LAKE 5A-6	BASE	142.50	14.71	0.00	266310	7.29	8.19
025Y24H	LAKE 5A-6	BASE	143.00	14.70	0.00	265592	7.26	8.16
025Y24H	LAKE 5A-6	BASE	143.50	14.69	0.00	264873	7.23	8.13
025Y24H	LAKE 5A-6	BASE	144.00	14.69	0.00	264153	7.20	8.10
025Y24H	LAKE 5A-6	BASE	144.50	14.68	0.00	263432	7.17	8.06
025Y24H	LAKE 5A-6	BASE	145.00	14.68	0.00	262710	7.14	8.03
025Y24H	LAKE 5A-6	BASE	145.50	14.67	0.00	261986	7.11	8.00
025Y24H	LAKE 5A-6	BASE	146.00	14.66	0.00	261262	7.08	7.97
025Y24H	LAKE 5A-6	BASE	146.50	14.66	0.00	260536	7.05	7.94
025Y24H	LAKE 5A-6	BASE	147.00	14.65	0.00	259810	7.02	7.91
025Y24H	LAKE 5A-6	BASE	147.50	14.65	0.00	259082	6.99	7.88
025Y24H	LAKE 5A-6	BASE	148.00	14.64	0.00	258353	6.96	7.84
025Y24H	LAKE 5A-6	BASE	148.50	14.63	0.00	257623	6.93	7.81
025Y24H	LAKE 5A-6	BASE	149.00	14.63	0.00	256891	6.90	7.78
025Y24H	LAKE 5A-6	BASE	149.50	14.62	0.00	256157	6.87	7.75
025Y24H	LAKE 5A-6	BASE	150.00	14.61	0.00	255422	6.84	7.72
025Y24H	LAKE 5A-6	BASE	150.50	14.61	0.00	254686	6.80	7.68
025Y24H	LAKE 5A-6	BASE	151.00	14.60	0.00	253948	6.77	7.65
025Y24H	LAKE 5A-6	BASE	151.50	14.60	0.00	253209	6.74	7.62
025Y24H	LAKE 5A-6	BASE	152.00	14.59	0.00	252469	6.71	7.58
025Y24H	LAKE 5A-6	BASE	152.50	14.58	0.00	251727	6.67	7.55
025Y24H	LAKE 5A-6	BASE	153.00	14.58	0.00	250984	6.64	7.52
025Y24H	LAKE 5A-6	BASE	153.50	14.57	0.00	250239	6.59	7.48
025Y24H	LAKE 5A-6	BASE	154.00	14.56	0.00	249493	6.58	7.45
025Y24H	LAKE 5A-6	BASE	154.50	14.56	0.00	248745	6.55	7.42
025Y24H	LAKE 5A-6	BASE	155.00	14.55	0.00	247996	6.52	7.38
025Y24H	LAKE 5A-6	BASE	155.50	14.55	0.00	247247	6.48	7.35
025Y24H	LAKE 5A-6	BASE	156.00	14.54	0.00	246496	6.44	7.31
025Y24H	LAKE 5A-6	BASE	156.50	14.53	0.00	245744	6.42	7.28
025Y24H	LAKE 5A-6	BASE	157.00	14.53	0.00	244991	6.38	7.25
025Y24H	LAKE 5A-6	BASE	157.50	14.52	0.00	244235	6.35	7.21
025Y24H	LAKE 5A-6	BASE	158.00	14.51	0.00	243480	6.32	7.18
025Y24H	LAKE 5A-6	BASE	158.50	14.51	0.00	242721	6.28	7.14
025Y24H	LAKE 5A-6	BASE	159.00	14.50	0.00	241963	6.25	7.11
025Y24H	LAKE 5A-6	BASE	159.50	14.49	0.00	241353	6.21	7.07
025Y24H	LAKE 5A-6	BASE	160.00	14.49	0.00	240783	6.17	7.04
025Y24H	LAKE 5A-6	BASE	160.50	14.48	0.00	240210	6.15	7.00
025Y24H	LAKE 5A-6	BASE	161.00	14.48	0.00	239639	6.10	6.97
025Y24H	LAKE 5A-6	BASE	161.50	14.47	0.00	239066	6.07	6.93
025Y24H	LAKE 5A-6	BASE	162.00	14.46	0.00	238494	6.04	6.90
025Y24H	LAKE 5A-6	BASE	162.50	14.46	0.00	237921	6.00	6.86
025Y24H	LAKE 5A-6	BASE	163.00	14.45	0.00	237349	5.98	6.83
025Y24H	LAKE 5A-6	BASE	163.50	14.44	0.00	236776	5.94	6.79
025Y24H	LAKE 5A-6	BASE	164.00	14.44	0.00	236202	5.92	6.76
025Y24H	LAKE 5A-6	BASE	164.50	14.43	0.00	235629	5.89	6.72
025Y24H	LAKE 5A-6	BASE	165.00	14.42	0.00	235056	5.85	6.69
025Y24H	LAKE 5A-6	BASE	165.50	14.42	0.00	234483	5.82	6.65
025Y24H	LAKE 5A-6	BASE	166.00	14.41	0.00	233909	5.79	6.62
025Y24H	LAKE 5A-6	BASE	166.50	14.40	0.00	233336	5.74	6.58
025Y24H	LAKE 5A-6	BASE	167.00	14.40	0.00	232764	5.71	6.55
025Y24H	LAKE 5A-6	BASE	167.50	14.39	0.00	232192	5.69	6.51
025Y24H	LAKE 5A-6	BASE	168.00	14.39	0.00	231619	5.66	6.48
025Y24H	LAKE 5A-6	BASE	168.50	14.38	0.00	231048	5.63	6.44
025Y24H	LAKE 5A-6	BASE	169.00	14.37	0.00	230477	5.57	6.40
025Y24H	LAKE 5A-6	BASE	169.50	14.37	0.00	229908	5.55	6.36
025Y24H	LAKE 5A-6	BASE	170.00	14.36	0.00	229339	5.52	6.32
025Y24H	LAKE 5A-6	BASE	170.50	14.35	0.00	228771	5.48	6.28
025Y24H	LAKE 5A-6	BASE	171.00	14.35	0.00	228204	5.42	6.24
025Y24H	LAKE 5A-6	BASE	171.50	14.34	0.00	227636	5.39	6.20
025Y24H	LAKE 5A-6	BASE	172.00	14.33	0.00	227069	5.36	6.17
025Y24H	LAKE 5A-6	BASE	172.50	14.33	0.00	226507	5.33	6.13
025Y24H	LAKE 5A-6	BASE	173.00	14.32	0.00	225944	5.29	6.09
025Y24H	LAKE 5A-6	BASE	173.50	14.32	0.00	225380	5.26	6.05
025Y24H	LAKE 5A-6	BASE	174.00	14.31	0.00	224816	5.22	6.01
025Y24H	LAKE 5A-6	BASE	174.50	14.30	0.00	224253	5.19	5.98

NEW MODEL 3 - IRREGULAR WEIR  
DISCHARGE PIPE TO 48"  
INCREASED WEIR

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	175.00	14.30	0.00	223690	5.15	5.94
025Y24H	LAKE 5A-6	BASE	175.50	14.29	0.00	223127	5.12	5.90
025Y24H	LAKE 5A-6	BASE	176.00	14.28	0.00	222565	5.08	5.86
025Y24H	LAKE 5A-6	BASE	176.50	14.28	0.00	221999	5.06	5.83
025Y24H	LAKE 5A-6	BASE	177.00	14.27	0.00	221437	4.99	5.79
025Y24H	LAKE 5A-6	BASE	177.50	14.26	0.00	220876	4.97	5.75
025Y24H	LAKE 5A-6	BASE	178.00	14.26	0.00	220314	4.92	5.71
025Y24H	LAKE 5A-6	BASE	178.50	14.25	0.00	219753	4.92	5.68
025Y24H	LAKE 5A-6	BASE	179.00	14.25	0.00	219194	4.86	5.64
025Y24H	LAKE 5A-6	BASE	179.50	14.24	0.00	218635	4.85	5.60
025Y24H	LAKE 5A-6	BASE	180.00	14.23	0.00	218077	4.82	5.57
025Y24H	LAKE 5A-6	BASE	180.50	14.23	0.00	217519	4.79	5.53
025Y24H	LAKE 5A-6	BASE	181.00	14.22	0.00	216962	4.75	5.50
025Y24H	LAKE 5A-6	BASE	181.50	14.21	0.00	216406	4.71	5.46
025Y24H	LAKE 5A-6	BASE	182.00	14.21	0.00	215850	4.67	5.42
025Y24H	LAKE 5A-6	BASE	182.50	14.20	0.00	215294	4.63	5.39
025Y24H	LAKE 5A-6	BASE	183.00	14.20	0.00	214740	4.59	5.35
025Y24H	LAKE 5A-6	BASE	183.50	14.19	0.00	214184	4.56	5.32
025Y24H	LAKE 5A-6	BASE	184.00	14.18	0.00	213630	4.54	5.28
025Y24H	LAKE 5A-6	BASE	184.50	14.18	0.00	213075	4.49	5.25
025Y24H	LAKE 5A-6	BASE	185.00	14.17	0.00	212523	4.47	5.21
025Y24H	LAKE 5A-6	BASE	185.50	14.16	0.00	211969	4.45	5.18
025Y24H	LAKE 5A-6	BASE	186.00	14.16	0.00	211418	4.41	5.14
025Y24H	LAKE 5A-6	BASE	186.50	14.15	0.00	210865	4.36	5.11
025Y24H	LAKE 5A-6	BASE	187.00	14.15	0.00	210313	4.35	5.07
025Y24H	LAKE 5A-6	BASE	187.50	14.14	0.00	209763	4.33	5.04
025Y24H	LAKE 5A-6	BASE	188.00	14.13	0.00	209212	4.28	5.00
025Y24H	LAKE 5A-6	BASE	188.50	14.13	0.00	208663	4.24	4.97
025Y24H	LAKE 5A-6	BASE	189.00	14.12	0.00	208114	4.22	4.94
025Y24H	LAKE 5A-6	BASE	189.50	14.11	0.00	207566	4.20	4.90
025Y24H	LAKE 5A-6	BASE	190.00	14.11	0.00	207016	4.15	4.87
025Y24H	LAKE 5A-6	BASE	190.50	14.10	0.00	206469	4.15	4.83
025Y24H	LAKE 5A-6	BASE	191.00	14.10	0.00	205919	4.08	4.80
025Y24H	LAKE 5A-6	BASE	191.50	14.09	0.00	205373	4.06	4.77
025Y24H	LAKE 5A-6	BASE	192.00	14.08	0.00	204824	4.02	4.73
025Y24H	LAKE 5A-6	BASE	192.50	14.08	0.00	204274	4.00	4.70
025Y24H	LAKE 5A-6	BASE	193.00	14.07	0.00	203728	3.97	4.67
025Y24H	LAKE 5A-6	BASE	193.50	14.07	0.00	203182	3.94	4.63
025Y24H	LAKE 5A-6	BASE	194.00	14.06	0.00	202637	3.91	4.60
025Y24H	LAKE 5A-6	BASE	194.50	14.05	0.00	202092	3.88	4.57
025Y24H	LAKE 5A-6	BASE	195.00	14.05	0.00	201549	3.85	4.54
025Y24H	LAKE 5A-6	BASE	195.50	14.04	0.00	201006	3.82	4.50
025Y24H	LAKE 5A-6	BASE	196.00	14.03	0.00	200463	3.79	4.47
025Y24H	LAKE 5A-6	BASE	196.50	14.03	0.00	199922	3.76	4.44
025Y24H	LAKE 5A-6	BASE	197.00	14.02	0.00	199381	3.73	4.41
025Y24H	LAKE 5A-6	BASE	197.50	14.02	0.00	198841	3.71	4.38
025Y24H	LAKE 5A-6	BASE	198.00	14.01	0.00	198302	3.68	4.35
025Y24H	LAKE 5A-6	BASE	198.50	14.00	0.00	197764	3.65	4.31
025Y24H	LAKE 5A-6	BASE	199.00	14.00	0.00	197322	3.62	4.28
025Y24H	LAKE 5A-6	BASE	199.50	13.99	0.00	197138	3.59	4.25
025Y24H	LAKE 5A-6	BASE	200.00	13.99	0.00	196955	3.57	4.22
025Y24H	LAKE 5A-6	BASE	200.50	13.98	0.00	196773	3.54	4.19
025Y24H	LAKE 5A-6	BASE	201.00	13.97	0.00	196592	3.52	4.16
025Y24H	LAKE 5A-6	BASE	201.50	13.97	0.00	196411	3.49	4.14
025Y24H	LAKE 5A-6	BASE	202.00	13.96	0.00	196232	3.47	4.11
025Y24H	LAKE 5A-6	BASE	202.50	13.96	0.00	196053	3.44	4.08
025Y24H	LAKE 5A-6	BASE	203.00	13.95	0.00	195875	3.42	4.05
025Y24H	LAKE 5A-6	BASE	203.50	13.95	0.00	195699	3.40	4.03
025Y24H	LAKE 5A-6	BASE	204.00	13.94	0.00	195523	3.37	4.00
025Y24H	LAKE 5A-6	BASE	204.50	13.93	0.00	195348	3.35	3.97
025Y24H	LAKE 5A-6	BASE	205.00	13.93	0.00	195174	3.33	3.95
025Y24H	LAKE 5A-6	BASE	205.50	13.92	0.00	195001	3.31	3.92
025Y24H	LAKE 5A-6	BASE	206.00	13.92	0.00	194828	3.29	3.90
025Y24H	LAKE 5A-6	BASE	206.50	13.91	0.00	194657	3.27	3.88
025Y24H	LAKE 5A-6	BASE	207.00	13.91	0.00	194486	3.25	3.85
025Y24H	LAKE 5A-6	BASE	207.50	13.90	0.00	194316	3.23	3.83
025Y24H	LAKE 5A-6	BASE	208.00	13.89	0.00	194147	3.21	3.81
025Y24H	LAKE 5A-6	BASE	208.50	13.89	0.00	193978	3.19	3.79
025Y24H	LAKE 5A-6	BASE	209.00	13.88	0.00	193810	3.17	3.76
025Y24H	LAKE 5A-6	BASE	209.50	13.88	0.00	193643	3.15	3.74

NEW MODEL 3 - IRREGULAR WEIR  
DISCHARGE PIPE TO 48"  
INCREASED WEIR

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	210.00	13.87	0.00	193477	3.14	3.72
025Y24H	LAKE 5A-6	BASE	210.50	13.87	0.00	193311	3.12	3.70
025Y24H	LAKE 5A-6	BASE	211.00	13.86	0.00	193146	3.10	3.68
025Y24H	LAKE 5A-6	BASE	211.50	13.86	0.00	192982	3.08	3.66
025Y24H	LAKE 5A-6	BASE	212.00	13.85	0.00	192818	3.07	3.64
025Y24H	LAKE 5A-6	BASE	212.50	13.85	0.00	192655	3.05	3.62
025Y24H	LAKE 5A-6	BASE	213.00	13.84	0.00	192493	3.04	3.60
025Y24H	LAKE 5A-6	BASE	213.50	13.83	0.00	192331	3.02	3.59
025Y24H	LAKE 5A-6	BASE	214.00	13.83	0.00	192170	3.00	3.57
025Y24H	LAKE 5A-6	BASE	214.50	13.82	0.00	192010	2.99	3.55
025Y24H	LAKE 5A-6	BASE	215.00	13.82	0.00	191850	2.97	3.53
025Y24H	LAKE 5A-6	BASE	215.50	13.81	0.00	191690	2.96	3.51
025Y24H	LAKE 5A-6	BASE	216.00	13.81	0.00	191532	2.94	3.50
025Y24H	LAKE 5A-6	BASE	216.50	13.80	0.00	191373	2.93	3.48
025Y24H	LAKE 5A-6	BASE	217.00	13.80	0.00	191216	2.92	3.46
025Y24H	LAKE 5A-6	BASE	217.50	13.79	0.00	191059	2.90	3.45
025Y24H	LAKE 5A-6	BASE	218.00	13.79	0.00	190902	2.89	3.43
025Y24H	LAKE 5A-6	BASE	218.50	13.78	0.00	190746	2.88	3.42
025Y24H	LAKE 5A-6	BASE	219.00	13.78	0.00	190590	2.86	3.40
025Y24H	LAKE 5A-6	BASE	219.50	13.77	0.00	190435	2.85	3.39
025Y24H	LAKE 5A-6	BASE	220.00	13.77	0.00	190280	2.84	3.37
025Y24H	LAKE 5A-6	BASE	220.50	13.76	0.00	190126	2.82	3.36
025Y24H	LAKE 5A-6	BASE	221.00	13.76	0.00	189972	2.81	3.34
025Y24H	LAKE 5A-6	BASE	221.50	13.75	0.00	189819	2.80	3.33
025Y24H	LAKE 5A-6	BASE	222.00	13.75	0.00	189666	2.79	3.32
025Y24H	LAKE 5A-6	BASE	222.50	13.74	0.00	189514	2.78	3.30
025Y24H	LAKE 5A-6	BASE	223.00	13.74	0.00	189362	2.77	3.29
025Y24H	LAKE 5A-6	BASE	223.50	13.73	0.00	189210	2.75	3.28
025Y24H	LAKE 5A-6	BASE	224.00	13.73	0.00	189059	2.74	3.26
025Y24H	LAKE 5A-6	BASE	224.50	13.72	0.00	188909	2.73	3.25
025Y24H	LAKE 5A-6	BASE	225.00	13.72	0.00	188758	2.72	3.24
025Y24H	LAKE 5A-6	BASE	225.50	13.71	0.00	188608	2.71	3.22
025Y24H	LAKE 5A-6	BASE	226.00	13.71	0.00	188459	2.70	3.21
025Y24H	LAKE 5A-6	BASE	226.50	13.70	0.00	188310	2.69	3.20
025Y24H	LAKE 5A-6	BASE	227.00	13.70	0.00	188161	2.68	3.19
025Y24H	LAKE 5A-6	BASE	227.50	13.69	0.00	188013	2.67	3.18
025Y24H	LAKE 5A-6	BASE	228.00	13.69	0.00	187865	2.66	3.17
025Y24H	LAKE 5A-6	BASE	228.50	13.68	0.00	187717	2.65	3.15
025Y24H	LAKE 5A-6	BASE	229.00	13.68	0.00	187570	2.64	3.14
025Y24H	LAKE 5A-6	BASE	229.50	13.67	0.00	187423	2.63	3.13
025Y24H	LAKE 5A-6	BASE	230.00	13.67	0.00	187276	2.62	3.12
025Y24H	LAKE 5A-6	BASE	230.50	13.66	0.00	187130	2.61	3.11
025Y24H	LAKE 5A-6	BASE	231.00	13.66	0.00	186984	2.60	3.10
025Y24H	LAKE 5A-6	BASE	231.50	13.65	0.00	186839	2.59	3.09
025Y24H	LAKE 5A-6	BASE	232.00	13.65	0.00	186693	2.58	3.08
025Y24H	LAKE 5A-6	BASE	232.50	13.65	0.00	186548	2.57	3.07
025Y24H	LAKE 5A-6	BASE	233.00	13.64	0.00	186404	2.57	3.06
025Y24H	LAKE 5A-6	BASE	233.50	13.64	0.00	186260	2.56	3.05
025Y24H	LAKE 5A-6	BASE	234.00	13.63	0.00	186116	2.55	3.04
025Y24H	LAKE 5A-6	BASE	234.50	13.63	0.00	185972	2.54	3.03
025Y24H	LAKE 5A-6	BASE	235.00	13.62	0.00	185829	2.53	3.02
025Y24H	LAKE 5A-6	BASE	235.50	13.62	0.00	185685	2.52	3.01
025Y24H	LAKE 5A-6	BASE	236.00	13.61	0.00	185543	2.51	3.00
025Y24H	LAKE 5A-6	BASE	236.50	13.61	0.00	185400	2.51	2.99
025Y24H	LAKE 5A-6	BASE	237.00	13.60	0.00	185258	2.50	2.98
025Y24H	LAKE 5A-6	BASE	237.50	13.60	0.00	185116	2.49	2.97
025Y24H	LAKE 5A-6	BASE	238.00	13.59	0.00	184974	2.48	2.96
025Y24H	LAKE 5A-6	BASE	238.50	13.59	0.00	184833	2.47	2.95
025Y24H	LAKE 5A-6	BASE	239.00	13.58	0.00	184692	2.47	2.94
025Y24H	LAKE 5A-6	BASE	239.50	13.58	0.00	184551	2.46	2.93
025Y24H	LAKE 5A-6	BASE	240.00	13.57	0.00	184411	2.45	2.92
025Y24H	LAKE 5A-6	BASE	240.50	13.57	0.00	184270	2.44	2.91
025Y24H	LAKE 5A-6	BASE	241.00	13.57	0.00	184131	2.44	2.91
025Y24H	LAKE 5A-6	BASE	241.50	13.56	0.00	183991	2.43	2.90
025Y24H	LAKE 5A-6	BASE	242.00	13.56	0.00	183851	2.42	2.89
025Y24H	LAKE 5A-6	BASE	242.50	13.55	0.00	183712	2.41	2.88
025Y24H	LAKE 5A-6	BASE	243.00	13.55	0.00	183573	2.41	2.87
025Y24H	LAKE 5A-6	BASE	243.50	13.54	0.00	183435	2.40	2.86
025Y24H	LAKE 5A-6	BASE	244.00	13.54	0.00	183296	2.39	2.85
025Y24H	LAKE 5A-6	BASE	244.50	13.53	0.00	183158	2.38	2.85

NEW MODEL 3 - IRREGULAR WEIR  
DISCHARGE PIPE TO 48"  
INCREASED WEIR

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	245.00	13.53	0.00	183020	2.38	2.84
025Y24H	LAKE 5A-6	BASE	245.50	13.52	0.00	182882	2.37	2.83
025Y24H	LAKE 5A-6	BASE	246.00	13.52	0.00	182745	2.36	2.82
025Y24H	LAKE 5A-6	BASE	246.50	13.52	0.00	182608	2.36	2.81
025Y24H	LAKE 5A-6	BASE	247.00	13.51	0.00	182471	2.35	2.80
025Y24H	LAKE 5A-6	BASE	247.50	13.51	0.00	182334	2.34	2.80
025Y24H	LAKE 5A-6	BASE	248.00	13.50	0.00	182198	2.34	2.79
025Y24H	LAKE 5A-6	BASE	248.50	13.50	0.00	182126	2.33	2.78
025Y24H	LAKE 5A-6	BASE	249.00	13.49	0.00	182125	2.32	2.77
025Y24H	LAKE 5A+6	BASE	249.50	13.49	0.00	182125	2.32	2.76
025Y24H	LAKE 5A-6	BASE	250.00	13.48	0.00	182125	2.31	2.76
025Y24H	LAKE 5A-6	BASE	250.50	13.48	0.00	182124	2.30	2.75
025Y24H	LAKE 5A-6	BASE	251.00	13.48	0.00	182124	2.30	2.74
025Y24H	LAKE 5A-6	BASE	251.50	13.47	0.00	182123	2.29	2.73
025Y24H	LAKE 5A-6	BASE	252.00	13.47	0.00	182123	2.28	2.73
025Y24H	LAKE 5A-6	BASE	252.50	13.46	0.00	182123	2.28	2.72
025Y24H	LAKE 5A-6	BASE	253.00	13.46	0.00	182122	2.27	2.71
025Y24H	LAKE 5A-6	BASE	253.50	13.45	0.00	182122	2.26	2.70
025Y24H	LAKE 5A-6	BASE	254.00	13.45	0.00	182121	2.26	2.70
025Y24H	LAKE 5A-6	BASE	254.50	13.45	0.00	182121	2.25	2.69
025Y24H	LAKE 5A-6	BASE	255.00	13.44	0.00	182121	2.24	2.68
025Y24H	LAKE 5A-6	BASE	255.50	13.44	0.00	182120	2.24	2.67
025Y24H	LAKE 5A-6	BASE	256.00	13.43	0.00	182120	2.23	2.67
025Y24H	LAKE 5A-6	BASE	256.50	13.43	0.00	182120	2.23	2.66
025Y24H	LAKE 5A-6	BASE	257.00	13.42	0.00	182119	2.22	2.65
025Y24H	LAKE 5A-6	BASE	257.50	13.42	0.00	182119	2.21	2.65
025Y24H	LAKE 5A-6	BASE	258.00	13.42	0.00	182118	2.21	2.64
025Y24H	LAKE 5A-6	BASE	258.50	13.41	0.00	182118	2.20	2.63
025Y24H	LAKE 5A-6	BASE	259.00	13.41	0.00	182118	2.20	2.63
025Y24H	LAKE 5A-6	BASE	259.50	13.40	0.00	182117	2.19	2.62
025Y24H	LAKE 5A-6	BASE	260.00	13.40	0.00	182117	2.18	2.61
025Y24H	LAKE 5A-6	BASE	260.50	13.39	0.00	182117	2.18	2.60
025Y24H	LAKE 5A-6	BASE	261.00	13.39	0.00	182116	2.17	2.60
025Y24H	LAKE 5A-6	BASE	261.50	13.39	0.00	182116	2.17	2.59
025Y24H	LAKE 5A-6	BASE	262.00	13.38	0.00	182116	2.16	2.58
025Y24H	LAKE 5A-6	BASE	262.50	13.38	0.00	182115	2.16	2.58
025Y24H	LAKE 5A-6	BASE	263.00	13.37	0.00	182115	2.15	2.57
025Y24H	LAKE 5A-6	BASE	263.50	13.37	0.00	182114	2.14	2.56
025Y24H	LAKE 5A-6	BASE	264.00	13.36	0.00	182114	2.14	2.56
025Y24H	LAKE 5A-6	BASE	264.50	13.36	0.00	182114	2.13	2.55
025Y24H	LAKE 5A-6	BASE	265.00	13.36	0.00	182113	2.13	2.54
025Y24H	LAKE 5A-6	BASE	265.50	13.35	0.00	182113	2.12	2.54
025Y24H	LAKE 5A-6	BASE	266.00	13.35	0.00	182113	2.12	2.53
025Y24H	LAKE 5A-6	BASE	266.50	13.34	0.00	182112	2.11	2.52
025Y24H	LAKE 5A-6	BASE	267.00	13.34	0.00	182112	2.10	2.52
025Y24H	LAKE 5A-6	BASE	267.50	13.34	0.00	182112	2.10	2.51
025Y24H	LAKE 5A-6	BASE	268.00	13.33	0.00	182111	2.09	2.50
025Y24H	LAKE 5A-6	BASE	268.50	13.33	0.00	182111	2.09	2.50
025Y24H	LAKE 5A-6	BASE	269.00	13.32	0.00	182111	2.08	2.49
025Y24H	LAKE 5A-6	BASE	269.50	13.32	0.00	182110	2.08	2.48
025Y24H	LAKE 5A-6	BASE	270.00	13.32	0.00	182110	2.07	2.48
025Y24H	LAKE 5A-6	BASE	270.50	13.31	0.00	182109	2.06	2.47
025Y24H	LAKE 5A-6	BASE	271.00	13.31	0.00	182109	2.06	2.46
025Y24H	LAKE 5A-6	BASE	271.50	13.30	0.00	182109	2.05	2.46
025Y24H	LAKE 5A-6	BASE	272.00	13.30	0.00	182108	2.05	2.45
025Y24H	LAKE 5A-6	BASE	272.50	13.30	0.00	182108	2.04	2.44
025Y24H	LAKE 5A-6	BASE	273.00	13.29	0.00	182108	2.04	2.44
025Y24H	LAKE 5A-6	BASE	273.50	13.29	0.00	182107	2.03	2.43
025Y24H	LAKE 5A-6	BASE	274.00	13.28	0.00	182107	2.02	2.42
025Y24H	LAKE 5A-6	BASE	274.50	13.28	0.00	182107	2.02	2.42
025Y24H	LAKE 5A-6	BASE	275.00	13.28	0.00	182106	2.01	2.41
025Y24H	LAKE 5A-6	BASE	275.50	13.27	0.00	182106	2.01	2.40
025Y24H	LAKE 5A-6	BASE	276.00	13.27	0.00	182106	2.00	2.39
025Y24H	LAKE 5A-6	BASE	276.50	13.26	0.00	182105	2.00	2.39
025Y24H	LAKE 5A-6	BASE	277.00	13.26	0.00	182105	1.99	2.38
025Y24H	LAKE 5A-6	BASE	277.50	13.26	0.00	182105	1.98	2.37
025Y24H	LAKE 5A-6	BASE	278.00	13.25	0.00	182104	1.98	2.37
025Y24H	LAKE 5A-6	BASE	278.50	13.25	0.00	182104	1.97	2.36
025Y24H	LAKE 5A-6	BASE	279.00	13.25	0.00	182104	1.97	2.35
025Y24H	LAKE 5A-6	BASE	279.50	13.24	0.00	182103	1.96	2.35

NEW MODEL 3 - IRREGULAR WEIR  
DISCHARGE PIPE TO 48"  
INCREASED WEIR

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	280.00	13.24	0.00	182103	1.96	2.34
025Y24H	LAKE 5A-6	BASE	280.50	13.23	0.00	182103	1.95	2.33
025Y24H	LAKE 5A-6	BASE	281.00	13.23	0.00	182102	1.94	2.33
025Y24H	LAKE 5A-6	BASE	281.50	13.23	0.00	182102	1.94	2.32
025Y24H	LAKE 5A-6	BASE	282.00	13.22	0.00	182102	1.93	2.31
025Y24H	LAKE 5A-6	BASE	282.50	13.22	0.00	182101	1.93	2.30
025Y24H	LAKE 5A-6	BASE	283.00	13.22	0.00	182101	1.92	2.30
025Y24H	LAKE 5A-6	BASE	283.50	13.21	0.00	182101	1.91	2.29
025Y24H	LAKE 5A-6	BASE	284.00	13.21	0.00	182100	1.91	2.28
025Y24H	LAKE 5A-6	BASE	284.50	13.20	0.00	182100	1.90	2.28
025Y24H	LAKE 5A-6	BASE	285.00	13.20	0.00	182100	1.90	2.27
025Y24H	LAKE 5A-6	BASE	285.50	13.20	0.00	182099	1.89	2.26
025Y24H	LAKE 5A-6	BASE	286.00	13.19	0.00	182099	1.88	2.26
025Y24H	LAKE 5A-6	BASE	286.50	13.19	0.00	182099	1.88	2.25
025Y24H	LAKE 5A-6	BASE	287.00	13.19	0.00	182099	1.87	2.24
025Y24H	LAKE 5A-6	BASE	287.50	13.18	0.00	182098	1.87	2.23
025Y24H	LAKE 5A-6	BASE	288.00	13.18	0.00	182098	1.86	2.23
025Y24H	LAKE 5A-6	BASE	288.50	13.17	0.00	182098	1.85	2.22
025Y24H	LAKE 5A-6	BASE	289.00	13.17	0.00	182097	1.85	2.21
025Y24H	LAKE 5A-6	BASE	289.50	13.17	0.00	182097	1.84	2.21
025Y24H	LAKE 5A-6	BASE	290.00	13.16	0.00	182097	1.84	2.20
025Y24H	LAKE 5A-6	BASE	290.50	13.16	0.00	182096	1.83	2.19
025Y24H	LAKE 5A-6	BASE	291.00	13.16	0.00	182096	1.82	2.18
025Y24H	LAKE 5A-6	BASE	291.50	13.15	0.00	182096	1.82	2.18
025Y24H	LAKE 5A-6	BASE	292.00	13.15	0.00	182095	1.81	2.17
025Y24H	LAKE 5A-6	BASE	292.50	13.15	0.00	182095	1.81	2.16
025Y24H	LAKE 5A-6	BASE	293.00	13.14	0.00	182095	1.80	2.15
025Y24H	LAKE 5A-6	BASE	293.50	13.14	0.00	182094	1.79	2.15
025Y24H	LAKE 5A-6	BASE	294.00	13.14	0.00	182094	1.79	2.14
025Y24H	LAKE 5A-6	BASE	294.50	13.13	0.00	182094	1.78	2.13
025Y24H	LAKE 5A-6	BASE	295.00	13.13	0.00	182094	1.77	2.13
025Y24H	LAKE 5A-6	BASE	295.50	13.13	0.00	182093	1.77	2.12
025Y24H	LAKE 5A-6	BASE	296.00	13.12	0.00	182093	1.76	2.11
025Y24H	LAKE 5A-6	BASE	296.50	13.12	0.00	182093	1.76	2.10
025Y24H	LAKE 5A-6	BASE	297.00	13.12	0.00	182092	1.75	2.10
025Y24H	LAKE 5A-6	BASE	297.50	13.11	0.00	182092	1.74	2.09
025Y24H	LAKE 5A-6	BASE	298.00	13.11	0.00	182092	1.74	2.08
025Y24H	LAKE 5A-6	BASE	298.50	13.11	0.00	182091	1.73	2.07
025Y24H	LAKE 5A-6	BASE	299.00	13.10	0.00	182091	1.72	2.07
025Y24H	LAKE 5A-6	BASE	299.50	13.10	0.00	182091	1.72	2.06
025Y24H	LAKE 5A-6	BASE	300.00	13.09	0.00	182091	1.71	2.05
025Y24H	LAKE 5A-6	BASE	300.50	13.09	0.00	182090	1.71	2.04
025Y24H	LAKE 5A-6	BASE	301.00	13.09	0.00	182090	1.70	2.04
025Y24H	LAKE 5A-6	BASE	301.50	13.08	0.00	182090	1.69	2.03
025Y24H	LAKE 5A-6	BASE	302.00	13.08	0.00	182089	1.69	2.02
025Y24H	LAKE 5A-6	BASE	302.50	13.08	0.00	182089	1.68	2.02
025Y24H	LAKE 5A-6	BASE	303.00	13.08	0.00	182089	1.68	2.01
025Y24H	LAKE 5A-6	BASE	303.50	13.07	0.00	182089	1.67	2.00
025Y24H	LAKE 5A-6	BASE	304.00	13.07	0.00	182088	1.66	1.99
025Y24H	LAKE 5A-6	BASE	304.50	13.07	0.00	182088	1.66	1.99
025Y24H	LAKE 5A-6	BASE	305.00	13.06	0.00	182088	1.65	1.98
025Y24H	LAKE 5A-6	BASE	305.50	13.06	0.00	182087	1.64	1.97
025Y24H	LAKE 5A-6	BASE	306.00	13.06	0.00	182087	1.64	1.96
025Y24H	LAKE 5A-6	BASE	306.50	13.05	0.00	182087	1.63	1.96
025Y24H	LAKE 5A-6	BASE	307.00	13.05	0.00	182087	1.63	1.95
025Y24H	LAKE 5A-6	BASE	307.50	13.05	0.00	182086	1.62	1.94
025Y24H	LAKE 5A-6	BASE	308.00	13.04	0.00	182086	1.61	1.93
025Y24H	LAKE 5A-6	BASE	308.50	13.04	0.00	182086	1.61	1.93
025Y24H	LAKE 5A-6	BASE	309.00	13.04	0.00	182086	1.60	1.92
025Y24H	LAKE 5A-6	BASE	309.50	13.03	0.00	182085	1.60	1.91
025Y24H	LAKE 5A-6	BASE	310.00	13.03	0.00	182085	1.59	1.91
025Y24H	LAKE 5A-6	BASE	310.50	13.03	0.00	182085	1.58	1.90
025Y24H	LAKE 5A-6	BASE	311.00	13.02	0.00	182084	1.58	1.89
025Y24H	LAKE 5A-6	BASE	311.50	13.02	0.00	182084	1.57	1.88
025Y24H	LAKE 5A-6	BASE	312.00	13.02	0.00	182084	1.56	1.88
025Y24H	LAKE 5A-6	BASE	312.50	13.01	0.00	182084	1.56	1.87
025Y24H	LAKE 5A-6	BASE	313.00	13.01	0.00	182083	1.55	1.86
025Y24H	LAKE 5A-6	BASE	313.50	13.01	0.00	182083	1.55	1.85
025Y24H	LAKE 5A-6	BASE	314.00	13.01	0.00	182083	1.54	1.85
025Y24H	LAKE 5A-6	BASE	314.50	13.00	0.00	182083	1.53	1.84

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DAYS  
AFTER  
EVENT

NEW MODEL 3 - IRREGULAR WEIR  
DISCHARGE PIPE TO 48"  
INCREASED WEIR

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	315.00	13.00	0.00	182044	1.53	1.83
025Y24H	LAKE 5A-6	BASE	315.50	13.00	0.00	181499	1.52	1.83
025Y24H	LAKE 5A-6	BASE	316.00	12.99	0.00	180954	1.52	1.82
025Y24H	LAKE 5A-6	BASE	316.50	12.99	0.00	180411	1.51	1.81
025Y24H	LAKE 5A-6	BASE	317.00	12.99	0.00	179868	1.50	1.80
025Y24H	LAKE 5A-6	BASE	317.50	12.98	0.00	179326	1.50	1.80
025Y24H	LAKE 5A-6	BASE	318.00	12.98	0.00	178785	1.49	1.79
025Y24H	LAKE 5A-6	BASE	318.50	12.98	0.00	178244	1.49	1.78
025Y24H	LAKE 5A-6	BASE	319.00	12.98	0.00	177704	1.48	1.77
025Y24H	LAKE 5A-6	BASE	319.50	12.97	0.00	177165	1.47	1.77
025Y24H	LAKE 5A-6	BASE	320.00	12.97	0.00	176626	1.47	1.76
025Y24H	LAKE 5A-6	BASE	320.50	12.97	0.00	176088	1.46	1.75
025Y24H	LAKE 5A-6	BASE	321.00	12.96	0.00	175551	1.46	1.74
025Y24H	LAKE 5A-6	BASE	321.50	12.96	0.00	175014	1.45	1.74
025Y24H	LAKE 5A-6	BASE	322.00	12.96	0.00	174478	1.44	1.73
025Y24H	LAKE 5A-6	BASE	322.50	12.96	0.00	173943	1.44	1.72
025Y24H	LAKE 5A-6	BASE	323.00	12.95	0.00	173409	1.43	1.71
025Y24H	LAKE 5A-6	BASE	323.50	12.95	0.00	172875	1.42	1.71
025Y24H	LAKE 5A-6	BASE	324.00	12.95	0.00	172343	1.42	1.70
025Y24H	LAKE 5A-6	BASE	324.50	12.94	0.00	171811	1.41	1.69
025Y24H	LAKE 5A-6	BASE	325.00	12.94	0.00	171279	1.40	1.68
025Y24H	LAKE 5A-6	BASE	325.50	12.94	0.00	170749	1.40	1.67
025Y24H	LAKE 5A-6	BASE	326.00	12.93	0.00	170219	1.39	1.67
025Y24H	LAKE 5A-6	BASE	326.50	12.93	0.00	169691	1.38	1.66
025Y24H	LAKE 5A-6	BASE	327.00	12.93	0.00	169163	1.38	1.65
025Y24H	LAKE 5A-6	BASE	327.50	12.93	0.00	168636	1.37	1.64
025Y24H	LAKE 5A-6	BASE	328.00	12.92	0.00	168110	1.36	1.64
025Y24H	LAKE 5A-6	BASE	328.50	12.92	0.00	167585	1.36	1.63
025Y24H	LAKE 5A-6	BASE	329.00	12.92	0.00	167061	1.35	1.62
025Y24H	LAKE 5A-6	BASE	329.50	12.91	0.00	166538	1.34	1.61
025Y24H	LAKE 5A-6	BASE	330.00	12.91	0.00	166016	1.34	1.60
025Y24H	LAKE 5A-6	BASE	330.50	12.91	0.00	165495	1.33	1.60
025Y24H	LAKE 5A-6	BASE	331.00	12.91	0.00	164975	1.32	1.59
025Y24H	LAKE 5A-6	BASE	331.50	12.90	0.00	164456	1.32	1.58
025Y24H	LAKE 5A-6	BASE	332.00	12.90	0.00	163938	1.31	1.57
025Y24H	LAKE 5A-6	BASE	332.50	12.90	0.00	163421	1.30	1.56
025Y24H	LAKE 5A-6	BASE	333.00	12.89	0.00	162905	1.30	1.55
025Y24H	LAKE 5A-6	BASE	333.50	12.89	0.00	162390	1.29	1.55
025Y24H	LAKE 5A-6	BASE	334.00	12.89	0.00	161877	1.28	1.54
025Y24H	LAKE 5A-6	BASE	334.50	12.89	0.00	161364	1.28	1.53
025Y24H	LAKE 5A-6	BASE	335.00	12.88	0.00	160853	1.27	1.52
025Y24H	LAKE 5A-6	BASE	335.50	12.88	0.00	160343	1.26	1.51
025Y24H	LAKE 5A-6	BASE	336.00	12.88	0.00	159835	1.25	1.50
025Y24H	LAKE 5A-6	BASE	336.50	12.87	0.00	159329	1.24	1.49
025Y24H	LAKE 5A-6	BASE	337.00	12.87	0.00	158827	1.23	1.48
025Y24H	LAKE 5A-6	BASE	337.50	12.87	0.00	158327	1.22	1.46
025Y24H	LAKE 5A-6	BASE	338.00	12.87	0.00	157831	1.21	1.45
025Y24H	LAKE 5A-6	BASE	338.50	12.86	0.00	157338	1.20	1.44
025Y24H	LAKE 5A-6	BASE	339.00	12.86	0.00	156848	1.19	1.43
025Y24H	LAKE 5A-6	BASE	339.50	12.86	0.00	156360	1.18	1.41
025Y24H	LAKE 5A-6	BASE	340.00	12.86	0.00	155876	1.17	1.40
025Y24H	LAKE 5A-6	BASE	340.50	12.85	0.00	155394	1.16	1.39
025Y24H	LAKE 5A-6	BASE	341.00	12.85	0.00	154915	1.15	1.37
025Y24H	LAKE 5A-6	BASE	341.50	12.85	0.00	154439	1.14	1.36
025Y24H	LAKE 5A-6	BASE	342.00	12.85	0.00	153966	1.13	1.35
025Y24H	LAKE 5A-6	BASE	342.50	12.84	0.00	153495	1.12	1.34
025Y24H	LAKE 5A-6	BASE	343.00	12.84	0.00	153027	1.11	1.33
025Y24H	LAKE 5A-6	BASE	343.50	12.84	0.00	152562	1.10	1.31
025Y24H	LAKE 5A-6	BASE	344.00	12.84	0.00	152100	1.09	1.30
025Y24H	LAKE 5A-6	BASE	344.50	12.83	0.00	151641	1.08	1.29
025Y24H	LAKE 5A-6	BASE	345.00	12.83	0.00	151184	1.07	1.28
025Y24H	LAKE 5A-6	BASE	345.50	12.83	0.00	150730	1.06	1.27
025Y24H	LAKE 5A-6	BASE	346.00	12.83	0.00	150278	1.05	1.26
025Y24H	LAKE 5A-6	BASE	346.50	12.82	0.00	149830	1.04	1.24
025Y24H	LAKE 5A-6	BASE	347.00	12.82	0.00	149384	1.03	1.23
025Y24H	LAKE 5A-6	BASE	347.50	12.82	0.00	148941	1.02	1.22
025Y24H	LAKE 5A-6	BASE	348.00	12.82	0.00	148500	1.01	1.21
025Y24H	LAKE 5A-6	BASE	348.50	12.81	0.00	148062	1.00	1.20
025Y24H	LAKE 5A-6	BASE	349.00	12.81	0.00	147627	0.99	1.19
025Y24H	LAKE 5A-6	BASE	349.50	12.81	0.00	147194	0.98	1.18

NEW MODEL 3 - IRREGULAR WEIR  
DISCHARGE PIPE TO 48"  
INCREASED WEIR



Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs
025Y24H	LAKE 5A-6	BASE	350.00	12.81	0.00	146764	0.97	1.17
025Y24H	LAKE 5A-6	BASE	350.50	12.80	0.00	146337	0.97	1.16
025Y24H	LAKE 5A-6	BASE	351.00	12.80	0.00	145912	0.96	1.15
025Y24H	LAKE 5A-6	BASE	351.50	12.80	0.00	145490	0.95	1.14
025Y24H	LAKE 5A-6	BASE	352.00	12.80	0.00	145070	0.94	1.13
025Y24H	LAKE 5A-6	BASE	352.50	12.79	0.00	144653	0.93	1.12
025Y24H	LAKE 5A-6	BASE	353.00	12.79	0.00	144238	0.92	1.11
025Y24H	LAKE 5A-6	BASE	353.50	12.79	0.00	143826	0.91	1.10
025Y24H	LAKE 5A-6	BASE	354.00	12.79	0.00	143417	0.91	1.09
025Y24H	LAKE 5A-6	BASE	354.50	12.79	0.00	143010	0.90	1.08
025Y24H	LAKE 5A-6	BASE	355.00	12.78	0.00	142605	0.89	1.07
025Y24H	LAKE 5A-6	BASE	355.50	12.78	0.00	142204	0.88	1.06
025Y24H	LAKE 5A-6	BASE	356.00	12.78	0.00	141804	0.87	1.05
025Y24H	LAKE 5A-6	BASE	356.50	12.78	0.00	141407	0.87	1.04
025Y24H	LAKE 5A-6	BASE	357.00	12.77	0.00	141013	0.86	1.03
025Y24H	LAKE 5A-6	BASE	357.50	12.77	0.00	140621	0.85	1.02
025Y24H	LAKE 5A-6	BASE	358.00	12.77	0.00	140231	0.84	1.01
025Y24H	LAKE 5A-6	BASE	358.50	12.77	0.00	139844	0.83	1.00
025Y24H	LAKE 5A-6	BASE	359.00	12.77	0.00	139459	0.83	0.99
025Y24H	LAKE 5A-6	BASE	359.50	12.76	0.00	139077	0.82	0.98
025Y24H	LAKE 5A-6	BASE	360.00	12.76	0.00	138697	0.81	0.97

NEW MODEL 3 - IRREGULAR WEIR  
DISCHARGE PIPE TO 48"  
INCREASED WEIR