

Venezia Townhomes

Stormwater Calculations

Letter Modification to SJRWMD Permit No. 18971-3



MADDEN
MOORHEAD & STOKES, LLC
CIVIL ENGINEERS

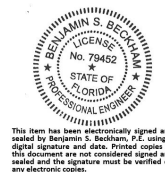
Prepared for:

D. R. Horton
10192 Dowden Road, Suite 150
Orlando, FL 32832

Prepared by:

Madden, Moorhead and Stokes, LLC
431 East Horatio Avenue, Suite 260
Maitland, Florida 32751
(407) 629-8330

Issue Date	Comment
October 22, 2021	Original Issue
December 10, 2021	Revised Per Town of Howey-In-The-Hills Comments



This item has been electronically signed and sealed by Benjamin S. Beckham, P.E., using a digital signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Digitally signed by Benjamin S
Beckham:A01410C00000177CA2F
2882000124BC
DN: c=US, o=Unaffiliated,
cn=Benjamin S
Beckham:A01410C00000177CA2F
2882000124BC
Date: 2021.12.10 12:31:25 -05'00'

Benjamin S. Beckham, P.E. #79452
Certificate of Authorization No. EB-0007723

Project Description

The project site is 11.33 acres of vacant, cleared, and mass-graded land located in south Howey-in-the-Hills, Lake County, Florida, southeast of the intersection of Venezia Boulevard and State Road 19. The project includes construction of 113 townhome units as well as associated parking, utilities, and amenities. The site is Tract MM of the Venezia South PD. An existing dry retention pond on site was designed and constructed to serve the site under SJRWMD permit no. 18971-3. Water quality treatment and attenuation is provided 10.27 acres of impervious cover, which includes 0.24 acres for Venezia South and 10.03 acres for future townhomes and commercial. As demonstrated below, the proposed development meets the design criteria previously established for the master stormwater management system.

Summary of Design Criteria

Land Use:

Impervious:	5.62 acres	48%
Pervious:	6.21 acres	52%
Total:	11.83 acres	100%

Impervious area remaining for future development: $10.27 \text{ ac} - 5.62 \text{ ac} = 4.65 \text{ ac}$

Existing Design Elevations [ft, NGVD 88] for Pond DRA-J:

Top of Pond	86.00
25yr / 96hr Peak Stage	85.86
25yr/24hr Peak Stage	85.60
10yr / 24hr Peak Stage	85.28
Basin Floor	77.00

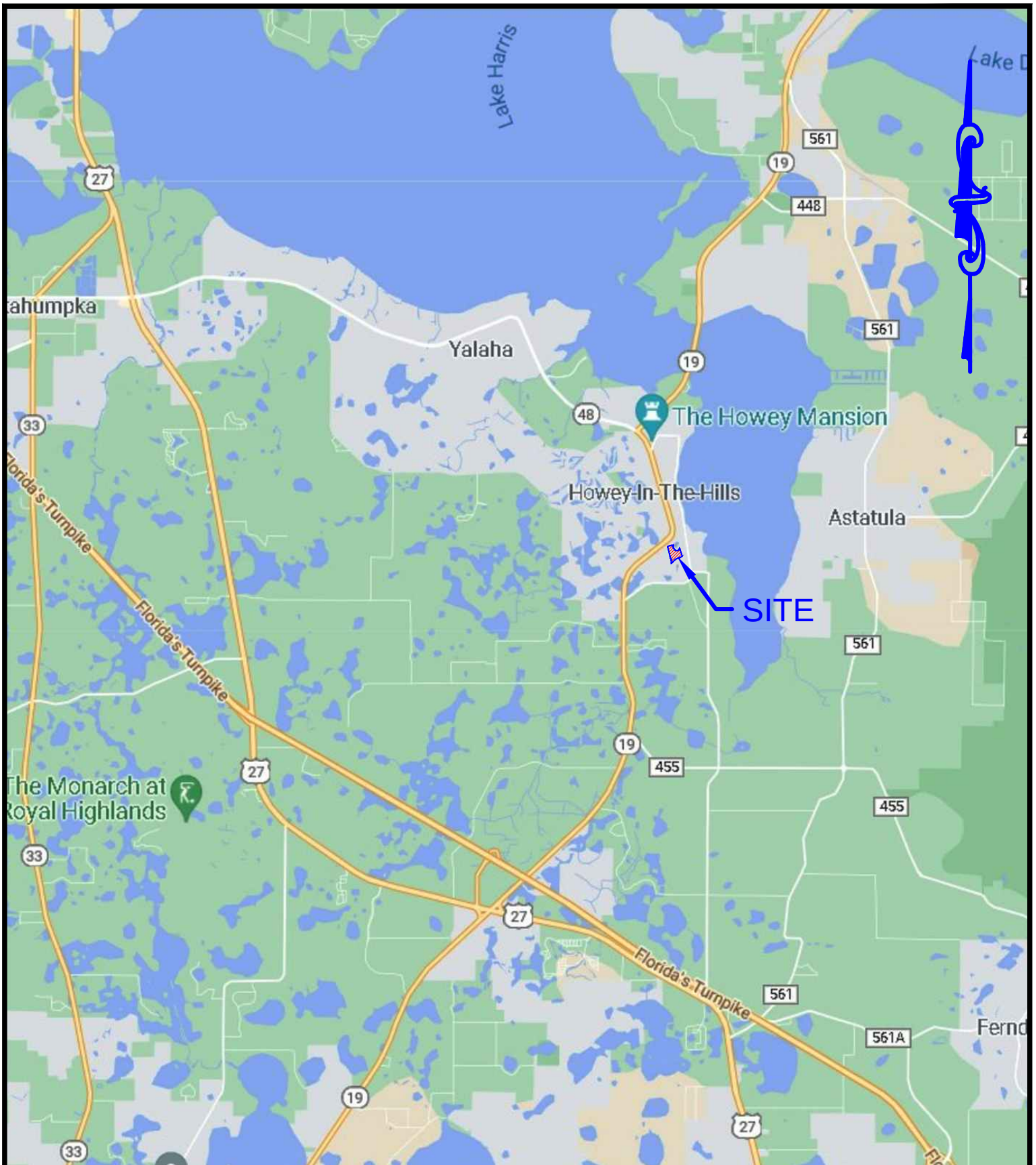
Minimum Design Elevations [ft, NAVD 88] for project:

Minimum Finished Floor	88.06
Minimum Street	85.44

Tailwater Discussion:

The secondary drainage system is modeled using StormCAD by Haestad Methods. The tailwater elevation was estimated using the average of the peak stage for the 25yr/24hr storm event and the bottom of pond: $(85.60 + 77.00) / 2 = 81.30 \text{ ft NAVD}$.

Exhibits



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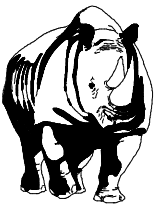
431 E. HORATIO AVE., STE. 260, MAITLAND, FL 32751 * (407) 629-8330

JOB NO.	21052
SEC. 35, TWP. 20S, RANGE 25E	
DRAWN BY:	FM
APPROVED BY:	CHM
DATE:	09/07/2021
Scale:	1" = 5000'

VENEZIA TOWNHOMES

LOCATION MAP

GOOGLE MAPS



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VENEZIA TOWNHOMES

AERIAL MAP

GOOGLE MAPS



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Scale:	1" = 500'

VENEZIA TOWNHOMES

SOILS MAP

USGS SOILS SURVEY

Report—Water Features

Map unit symbol and soil name	Hydrologic group	Surface runoff	Most likely months	Water table			Ponding			Flood
				Upper limit	Lower limit	Kind	Surface depth	Duration	Frequency	Duration
				<i>Ft</i>	<i>Ft</i>		<i>Ft</i>			
8—Candler sand, 0 to 5 percent slopes										
Candler	A	Negligible	Jan-Dec	—	—	—	—	—	None	—
9—Candler sand, 5 to 12 percent slopes										
Candler	A	Very low	Jan-Dec	—	—	—	—	—	None	—

Data Source Information

Soil Survey Area: Lake County Area, Florida
 Survey Area Data: Version 20, Jun 8, 2020



Natural Resources
Conservation Service

Web Soil Survey
National Cooperative Soil Survey



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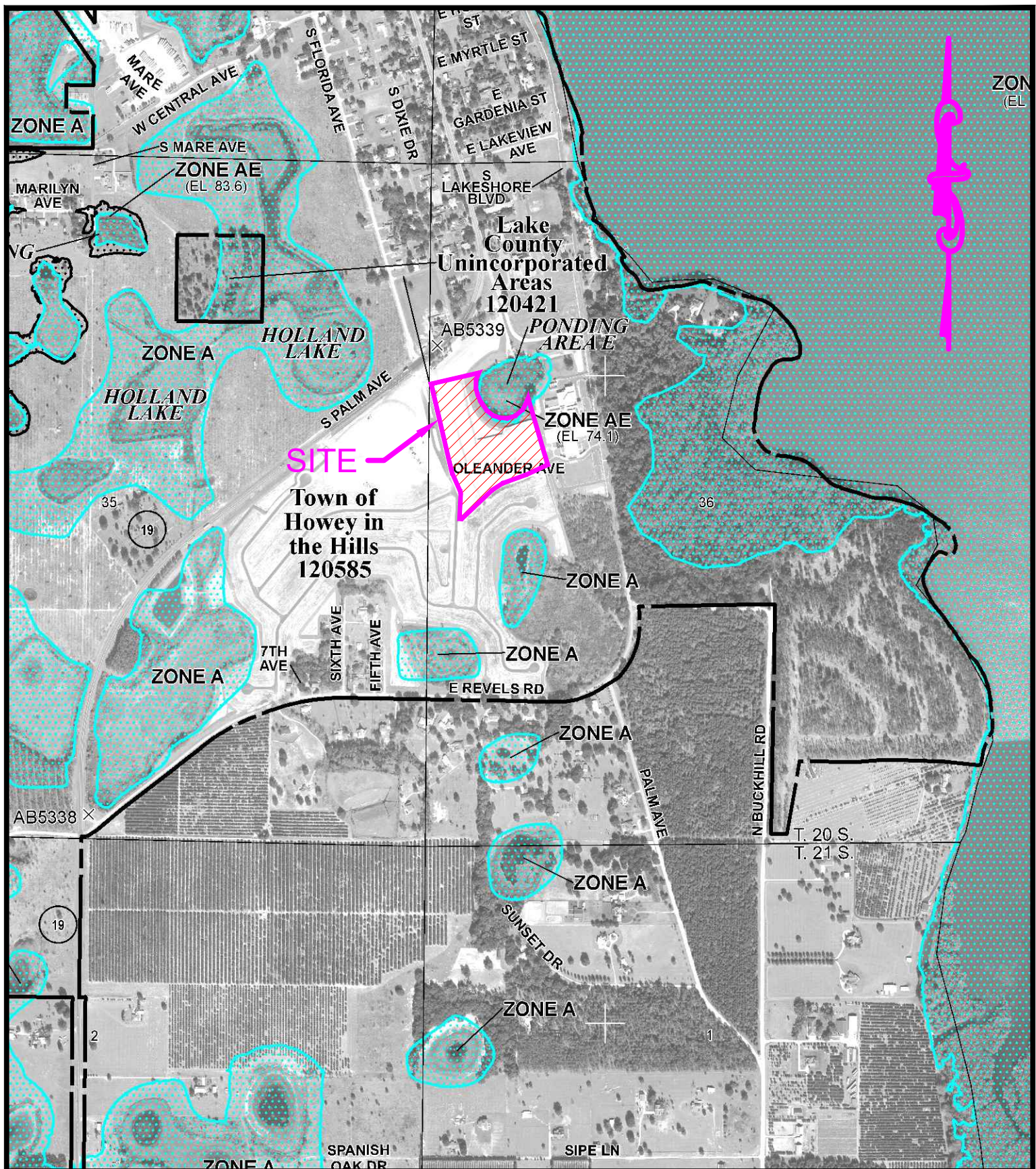
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VENEZIA TOWNHOMES

SOILS LEGEND

USGS SOILS SURVEY



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APPROVED BY:	CHM
DATE:	09/07/2021
Scale:	1" = 1000'

VENEZIA TOWNHOMES

FLOOD INSURANCE RATE MAP
 LAKE COUNTY, FLORIDA
 MAP #12069C0485E
 EFFECTIVE DATE DEC. 18, 2012

NFIP**PANEL 0485E****NATIONAL FLOOD INSURANCE PROGRAM****FIRM****FLOOD INSURANCE RATE MAP****LAKE COUNTY,
FLORIDA****AND INCORPORATED AREAS****PANEL 485 OF 750**

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

<u>COMMUNITY</u>	<u>NUMBER</u>	<u>PANEL</u>	<u>SUFFIX</u>
ASTATULA, TOWN OF	120581	0485	E
HOWEY IN THE HILLS, TOWN OF	120585	0485	E
LAKE COUNTY	120421	0485	E
TAVARES, CITY OF	120138	0485	E

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

**MAP NUMBER
12069C0485E****MAP REVISED
DECEMBER 18, 2012****Federal Emergency Management Agency****MADDEN**
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CIVIL ENGINEERS

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JOB NO. 21052

SEC. 35, TWP. 20S, RANGE 25E

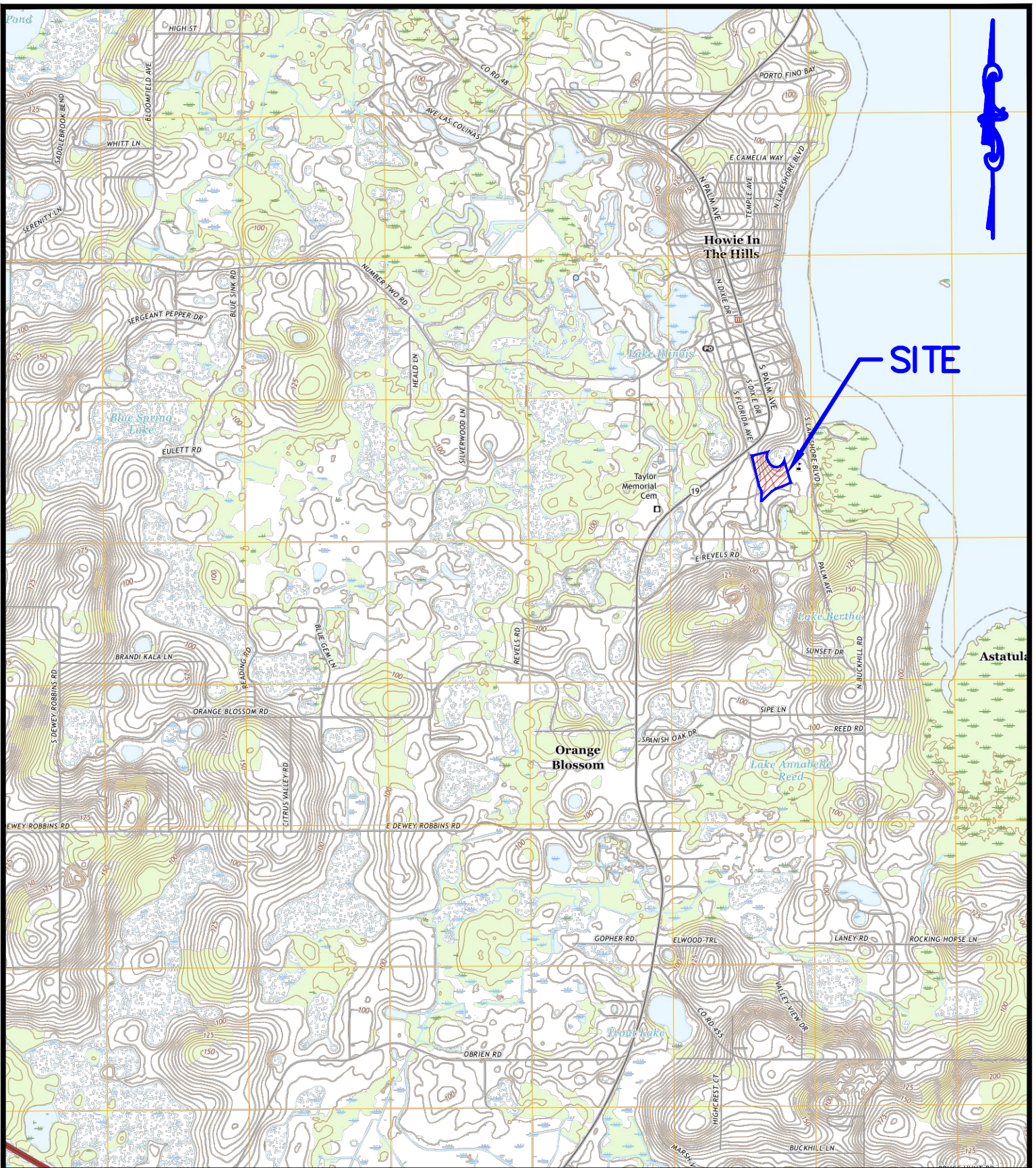
DRAWN BY: FM

APPROVED BY: CHM

DATE: 09/07/2021

Scale: N.T.S.

VENEZIA TOWNHOMESFLOOD INSURANCE RATE MAP
LAKE COUNTY, FLORIDA
MAP #12069C0485E
EFFECTIVE DATE DEC. 18, 2012



MADDEN
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CIVIL ENGINEERS

431 E. HORATIO AVE., STE. 260, MAITLAND, FL 32751 * (407) 629-8330

JOB NO.	21052
SEC. 35, TWP. 20S, RANGE 25E	
DRAWN BY:	FM
APPROVED BY:	CHM
DATE:	09/07/2021
Scale:	1" = 3000'

VENEZIA TOWNHOMES

QUAD MAP

STORE.USGS.GOV

**Excerpts from SJRWMD
Permit No. 18971-3**

Advanced Interconnected Channel & Pond Routing (adICPR Ver 1.40)
Copyright 1989, Streamline Technologies, Inc.

PROPOSED 10 YEAR 24 HOUR STORM EVENT (P1024)
10-28-07

BASIN NAME	BASINA	BASINB	BASINC	BASIND	BASINE
NODE NAME	BASINA	BASINB	BASINC	BASIND	BASINE
TIME INCREMENT (min)	5.00	5.00	5.00	5.00	5.00
RAINFALL FILE	SCSII-24	SCSII-24	SCSII-24	SCSII-24	SCSII-24
RAIN AMOUNT (in)	7.40	7.40	7.40	7.40	7.40
STORM DURATION (hrs)	24.00	24.00	24.00	24.00	24.00
AREA (ac)	13.11	12.52	11.00	8.64	25.64
CURVE NUMBER	69.24	63.69	70.32	59.49	56.42
DCIA (%)	.00	.00	.00	.00	.00
TC (mins)	10.00	10.00	10.00	10.00	10.00
LAG TIME (hrs)	.00	.00	.00	.00	.00
BASIN STATUS	ONSITE	ONSITE	ONSITE	ONSITE	ONSITE

BASIN	QMX (cfs)	TMX (hrs)	VOL (in)	NOTES
BASINA	54.18	11.92	3.87	
BASINB	43.32	11.92	3.27	
BASINC	46.88	11.92	3.98	
BASIND	25.44	11.92	2.83	
BASINE	65.78	11.92	2.52	

BASIN NAME	BASINF	BASINH	BASINI	BASINJ	BASINAB
NODE NAME	BASINF	BASINH	BASINI	BASINJ	BASINAB
TIME INCREMENT (min)	5.00	5.00	5.00	5.00	5.00
RAINFALL FILE	SCSII-24	SCSII-24	SCSII-24	SCSII-24	SCSII-24
RAIN AMOUNT (in)	7.40	7.40	7.40	7.40	7.40
STORM DURATION (hrs)	24.00	24.00	24.00	24.00	24.00
AREA (ac)	17.47	7.99	2.78	18.40	3.75
CURVE NUMBER	72.03	57.30	55.13	71.93	75.82
DCIA (%)	.00	.00	.00	.00	.00
TC (mins)	10.00	10.00	10.00	10.00	10.00
LAG TIME (hrs)	.00	.00	.00	.00	.00
BASIN STATUS	ONSITE	ONSITE	ONSITE	ONSITE	ONSITE

BASIN	QMX (cfs)	TMX (hrs)	VOL (in)	NOTES
BASINF	77.99	11.92	4.17	
BASINH	21.37	11.92	2.61	
BASINI	6.69	11.92	2.39	
BASINJ	81.92	11.92	4.16	
BASINAB	18.38	11.92	4.59	

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PROPOSED 10 YEAR 24 HOUR STORM EVENT (P1024)
10-28-07

CONTROL PARAMETERS

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START TIME: .00
END TIME: 24.00

TO TIME (hours)	SIMULATION INC (secs)	PRINT INC (mins)
-----	-----	-----
4.00	2.00	30.00
7.00	2.00	15.00
12.00	2.00	5.00
17.00	2.00	15.00
24.00	2.00	30.00

RUNOFF HYDROGRAPH FILE: DEFAULT
OFFSITE HYDROGRAPH FILE: DEFAULT
BOUNDARY DATABASE FILE: NONE

NOTE:

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PROPOSED 10 YEAR 24 HOUR STORM EVENT (P1024)
 10-28-07

NODE NAME	NODE TYPE	INI STAGE (ft)	X-COOR (ft)	Y-COOR (ft)	LENGTH (ft)	STAGE (ft)	AR/TM/STR (ac/hr/af)
BASINA	AREA	84.000	.000	.000	.000	84.000	1.150
						85.000	1.340
						86.000	1.540
						87.000	1.740
						88.000	1.940
BASINB	AREA	80.000	.000	.000	.000	80.000	.900
						81.000	.980
						82.000	1.080
						83.000	1.320
BASINC	AREA	82.000	.000	.000	.000	82.000	.470
						83.000	.570
						84.000	.670
						85.000	.790
						85.500	.860
BASIND	AREA	86.000	.000	.000	.000	86.000	.610
						87.000	.700
						88.000	.790
						89.000	.880
						90.000	.970
BASINE	AREA	79.000	.000	.000	.000	79.000	1.880
						80.000	2.280
						81.000	2.640
						82.000	3.000
BASINF	AREA	92.000	.000	.000	.000	92.000	.920
						93.000	1.020
						94.000	1.120
						95.000	1.230
BASINH	AREA	79.000	.000	.000	.000	79.000	.737
						80.000	.957
						81.000	1.220
						82.000	1.490
BASINI	AREA	76.000	.000	.000	.000	76.000	.180
						77.000	.280
						78.000	.380

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PROPOSED 10 YEAR 24 HOUR STORM EVENT (P1024)
 10-28-07

NODE NAME	NODE TYPE	INI STAGE (ft)	X-COOR (ft)	Y-COOR (ft)	LENGTH (ft)	STAGE (ft)	AR/TM/STR (ac/hr/af)
BASINJ	AREA	77.000	.000	.000	.000	77.000	.650
						78.000	.690
						79.000	.730
						80.000	.770
						81.000	.810
						82.000	.830
						83.000	.840
						84.000	.840
						85.000	.840
						85.600	.850
97	TIME	78.000	.000	.000	.000	78.000	.000
						79.000	12.000
						78.000	24.000
98	TIME	60.000	.000	.000	.000	60.000	.000
						62.000	12.000
						60.000	24.000
99	TIME	62.000	.000	.000	.000	62.000	.000
						63.000	12.000
						62.000	24.000
100	TIME	69.000	.000	.000	.000	72.500	.000
						73.000	12.000
						72.500	24.000
BASINE2	AREA	78.000	.000	.000	.000	78.000	4.170
						79.000	4.290
						80.000	4.410
						81.000	4.530
						82.000	5.160
BASINAB	AREA	81.250	.000	.000	.000	81.250	2.130
						82.000	2.220
						83.000	2.340

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PROPOSED 10 YEAR 24 HOUR STORM EVENT (P1024)
10-28-07

>>REACH NAME : RA
FROM NODE : BASINA
TO NODE : 97
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 87.500 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RB
FROM NODE : BASINB
TO NODE : 97
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 82.750 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RC
FROM NODE : BASINC
TO NODE : 97
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 85.000 BTM. WIDTH (ft): 15.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RE
FROM NODE : BASINE
TO NODE : BASINE2
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 80.500 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RF
FROM NODE : BASINF
TO NODE : BASINE2
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 94.000 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

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PROPOSED 10 YEAR 24 HOUR STORM EVENT (P1024)
10-28-07

>>REACH NAME : RH
FROM NODE : BASINH
TO NODE : 98
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 80.500 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RI
FROM NODE : BASINI
TO NODE : 98
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 77.750 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RJ
FROM NODE : BASINJ
TO NODE : 99
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 85.500 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

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PROPOSED 10 YEAR 24 HOUR STORM EVENT (P1024)
10-28-07

>>REACH NAME : RD
FROM NODE : BASIND
TO NODE : 97
REACH TYPE : DROP STRUCTURE w/ CIRC. CULVERT
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
TURBO SWITCH : OFF

CULVERT DATA :
SPAN (in): 18.000 RISE (in): 18.000 LENGTH (ft): 361.000
U/S INVERT (ft): 82.000 D/S INVERT (ft): 79.000 MANNING N: .013
ENTRNC LOSS: .500 # OF CULVERTS: 1.000

POSITION A : RECTANGULAR RISER SLOT
CREST EL. (ft): 89.500 CREST LN. (ft): 10.160 OPENING (ft): 999.000
WEIR COEF.: 3.200 GATE COEF.: .600 NUMBER OF ELEM.: 1.000

POSITION B : NOT USED

NOTE:

>>REACH NAME : RAB
FROM NODE : BASINAB
TO NODE : 97
REACH TYPE : DROP STRUCTURE w/ CIRC. CULVERT
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
TURBO SWITCH : OFF

CULVERT DATA :
SPAN (in): 12.000 RISE (in): 12.000 LENGTH (ft): 90.000
U/S INVERT (ft): 79.250 D/S INVERT (ft): 79.000 MANNING N: .013
ENTRNC LOSS: .500 # OF CULVERTS: 1.000

POSITION A : RECTANGULAR RISER SLOT
CREST EL. (ft): 82.500 CREST LN. (ft): 10.160 OPENING (ft): 999.000
WEIR COEF.: 3.200 GATE COEF.: .600 NUMBER OF ELEM.: 1.000

POSITION B : CIRCULAR RISER SLOT
INVERT EL. (ft): 81.250 SPAN (in): 4.000 RISE (in): 4.000
WEIR COEF.: 3.200 GATE COEF.: .600 NUMBER OF ELEM.: 1.000

NOTE:

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PROPOSED 10 YEAR 24 HOUR STORM EVENT (P1024)
10-28-07

REACH SUMMARY
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INDEX	RCHNAME	FRMNODE	TONODE	REACH TYPE
1	RA	BASINA	97	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
2	RB	BASINB	97	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
3	RC	BASINC	97	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
4	RE	BASINE	BASINE2	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
5	RF	BASINF	BASINE2	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
6	RH	BASINH	98	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
7	RI	BASINI	98	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
8	RJ	BASINJ	99	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
9	RD	BASIND	97	DROP STRUCTURE w/ CIRC. CULVERT
10	RAB	BASINAB	97	DROP STRUCTURE w/ CIRC. CULVERT

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PROPOSED 10 YEAR 24 HOUR STORM EVENT (P1024)
 10-28-07

NODAL MIN/MAX/TIME CONDITIONS REPORT

NODE ID	PARAMETER	<-- MINIMUMS -->		<-- MAXIMUMS -->	
		VALUE	TIME (hr)	VALUE	TIME (hr)
BASINA	STAGE (ft):	84.00	7.92	86.98	24.00
	VOLUME (af):	.00	7.75	4.30	24.00
	RUNOFF (cfs):	.00	7.75	54.18	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	24.00	.00	24.00
BASINB	STAGE (ft):	80.00	9.17	82.81	18.00
	VOLUME (af):	.00	9.08	2.94	18.00
	RUNOFF (cfs):	.00	9.08	43.32	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	16.50	1.15	18.00
BASINC	STAGE (ft):	82.00	7.67	85.28	12.75
	VOLUME (af):	.00	7.50	2.10	12.75
	RUNOFF (cfs):	.00	7.50	46.88	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	12.00	7.01	12.75
BASIND	STAGE (ft):	86.00	10.00	88.81	24.00
	VOLUME (af):	.00	9.92	2.07	24.00
	RUNOFF (cfs):	.00	9.92	25.44	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	24.00	.00	24.00
BASINE	STAGE (ft):	79.00	10.50	80.63	14.75
	VOLUME (af):	.00	10.50	3.62	14.75
	RUNOFF (cfs):	.00	10.50	65.78	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	13.00	3.48	14.75

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PROPOSED 10 YEAR 24 HOUR STORM EVENT (P1024)
 10-28-07

NODAL MIN/MAX/TIME CONDITIONS REPORT

NODE ID	PARAMETER	<-- MINIMUMS -->		<-- MAXIMUMS -->	
		VALUE	TIME (hr)	VALUE	TIME (hr)
BASINF	STAGE (ft):	92.00	7.17	94.56	12.25
	VOLUME (af):	.00	7.00	2.69	12.25
	RUNOFF (cfs):	.00	7.00	77.99	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	11.92	33.89	12.25
BASINH	STAGE (ft):	79.00	10.42	80.54	18.00
	VOLUME (af):	.00	10.25	1.44	18.00
	RUNOFF (cfs):	.00	10.25	21.37	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	16.00	.70	18.00
BASINI	STAGE (ft):	76.00	10.67	77.77	19.50
	VOLUME (af):	.00	10.67	.48	19.50
	RUNOFF (cfs):	.00	10.67	6.69	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	17.50	.20	19.50
BASINJ	STAGE (ft):	77.00	7.17	85.28	24.00
	VOLUME (af):	.00	7.08	6.49	24.00
	RUNOFF (cfs):	.00	7.08	81.92	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	24.00	.00	24.00
97	STAGE (ft):	78.00	24.00	79.00	12.00
	VOLUME (af):	.00	6.25	2.60	24.00
	RUNOFF (cfs):	.00	24.00	.00	24.00
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	6.25	7.22	12.75
	OUTFLOW (cfs):	.00	24.00	.00	24.00

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PROPOSED 10 YEAR 24 HOUR STORM EVENT (P1024)
 10-28-07

NODAL MIN/MAX/TIME CONDITIONS REPORT

NODE ID	PARAMETER	<-- MINIMUMS -->		<-- MAXIMUMS -->	
		VALUE	TIME (hr)	VALUE	TIME (hr)
98	STAGE (ft):	60.00	24.00	62.00	12.00
	VOLUME (af):	.00	16.00	.42	24.00
	RUNOFF (cfs):	.00	24.00	.00	24.00
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	16.00	.84	19.00
	OUTFLOW (cfs):	.00	24.00	.00	24.00
99	STAGE (ft):	62.00	24.00	63.00	12.00
	VOLUME (af):	.00	24.00	.00	24.00
	RUNOFF (cfs):	.00	24.00	.00	24.00
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	24.00	.00	24.00
100	STAGE (ft):	69.00	.00	73.00	12.00
	VOLUME (af):	.00	24.00	.00	24.00
	RUNOFF (cfs):	.00	24.00	.00	24.00
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	24.00	.00	24.00
BASINE2	STAGE (ft):	78.00	11.92	79.42	24.00
	VOLUME (af):	.00	11.92	6.07	24.00
	RUNOFF (cfs):	.00	24.00	.00	24.00
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	11.92	33.89	12.25
	OUTFLOW (cfs):	.00	24.00	.00	24.00
BASINAB	STAGE (ft):	81.25	6.25	81.81	23.50
	VOLUME (af):	.00	6.00	1.21	23.50
	RUNOFF (cfs):	.00	6.00	18.38	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	6.25	.26	23.50

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PROPOSED 25 YEAR 24 HOUR STORM EVENT (P2524)
10-28-07

BASIN NAME	BASINA	BASINB	BASINC	BASIND	BASINE
NODE NAME	BASINA	BASINB	BASINC	BASIND	BASINE
TIME INCREMENT (min)	5.00	5.00	5.00	5.00	5.00
RAINFALL FILE	SCSII-24	SCSII-24	SCSII-24	SCSII-24	SCSII-24
RAIN AMOUNT (in)	8.40	8.40	8.40	8.40	8.40
STORM DURATION (hrs)	24.00	24.00	24.00	24.00	24.00
AREA (ac)	13.11	12.52	11.00	8.64	25.64
CURVE NUMBER	69.24	63.69	70.32	59.49	56.42
DCIA (%)	.00	.00	.00	.00	.00
TC (mins)	10.00	10.00	10.00	10.00	10.00
LAG TIME (hrs)	.00	.00	.00	.00	.00
BASIN STATUS	ONSITE	ONSITE	ONSITE	ONSITE	ONSITE

BASIN QMX (cfs)	TMX (hrs)	VOL (in)	NOTES
BASINA	66.16	11.92	4.71
BASINB	54.16	11.92	4.06
BASINC	57.00	11.92	4.84
BASIND	32.51	11.92	3.57
BASINE	85.74	11.92	3.22

BASIN NAME	BASINF	BASINH	BASINI	BASINJ	BASINAB
NODE NAME	BASINF	BASINH	BASINI	BASINJ	BASINAB
TIME INCREMENT (min)	5.00	5.00	5.00	5.00	5.00
RAINFALL FILE	SCSII-24	SCSII-24	SCSII-24	SCSII-24	SCSII-24
RAIN AMOUNT (in)	8.40	8.40	8.40	8.40	8.40
STORM DURATION (hrs)	24.00	24.00	24.00	24.00	24.00
AREA (ac)	17.47	7.99	2.78	18.40	3.75
CURVE NUMBER	72.03	57.30	55.13	71.93	75.82
DCIA (%)	.00	.00	.00	.00	.00
TC (mins)	10.00	10.00	10.00	10.00	10.00
LAG TIME (hrs)	.00	.00	.00	.00	.00
BASIN STATUS	ONSITE	ONSITE	ONSITE	ONSITE	ONSITE

BASIN QMX (cfs)	TMX (hrs)	VOL (in)	NOTES
BASINF	94.24	11.92	5.05
BASINH	27.68	11.92	3.32
BASINI	8.80	11.92	3.07
BASINJ	99.03	11.92	5.03
BASINAB	21.93	11.92	5.50

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PROPOSED 25 YEAR 24 HOUR STORM EVENT (P2524)
10-28-07

CONTROL PARAMETERS

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START TIME: .00
END TIME: 24.00

TO TIME (hours)	SIMULATION INC (secs)	PRINT INC (mins)
-----	-----	-----
4.00	2.00	30.00
7.00	2.00	15.00
12.00	2.00	5.00
17.00	2.00	15.00
24.00	2.00	30.00

RUNOFF HYDROGRAPH FILE: DEFAULT
OFFSITE HYDROGRAPH FILE: DEFAULT
BOUNDARY DATABASE FILE: NONE

NOTE:

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PROPOSED 25 YEAR 24 HOUR STORM EVENT (P2524)
 10-28-07

NODE NAME	NODE TYPE	INI STAGE (ft)	X-COOR (ft)	Y-COOR (ft)	LENGTH (ft)	STAGE (ft)	AR/TM/STR (ac/hr/af)
BASINA	AREA	84.000	.000	.000	.000	84.000	1.150
						85.000	1.340
						86.000	1.540
						87.000	1.740
						88.000	1.940
BASINB	AREA	80.000	.000	.000	.000	80.000	.900
						81.000	.980
						82.000	1.080
						83.000	1.320
BASINC	AREA	82.000	.000	.000	.000	82.000	.470
						83.000	.570
						84.000	.670
						85.000	.790
BASIND	AREA	86.000	.000	.000	.000	86.000	.610
						87.000	.700
						88.000	.790
						89.000	.880
						90.000	.970
BASINE	AREA	79.000	.000	.000	.000	79.000	1.880
						80.000	2.280
						81.000	2.640
						82.000	3.000
BASINF	AREA	92.000	.000	.000	.000	92.000	.920
						93.000	1.020
						94.000	1.120
						95.000	1.230
BASINH	AREA	79.000	.000	.000	.000	79.000	.737
						80.000	.957
						81.000	1.220
						82.000	1.490
BASINI	AREA	76.000	.000	.000	.000	76.000	.180
						77.000	.280
						78.000	.380

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PROPOSED 25 YEAR 24 HOUR STORM EVENT (P2524)
 10-28-07

NODE NAME	NODE TYPE	INI STAGE (ft)	X-COOR (ft)	Y-COOR (ft)	LENGTH (ft)	STAGE (ft)	AR/TM/STR (ac/hr/af)
BASINJ	AREA	77.000	.000	.000	.000	77.000	.650
						78.000	.690
						79.000	.730
						80.000	.770
						81.000	.810
						82.000	.830
						83.000	.840
						84.000	.840
						85.000	.840
						86.000	.850
97	TIME	78.000	.000	.000	.000	78.000	.000
						79.000	12.000
						78.000	24.000
98	TIME	60.000	.000	.000	.000	60.000	.000
						62.000	12.000
						60.000	24.000
99	TIME	62.000	.000	.000	.000	62.000	.000
						63.000	12.000
						62.000	24.000
100	TIME	69.000	.000	.000	.000	72.500	.000
						73.000	12.000
						72.500	24.000
BASINE2	AREA	78.000	.000	.000	.000	78.000	4.170
						79.000	4.290
						80.000	4.410
						81.000	4.530
						82.000	5.160
BASINAB	AREA	81.250	.000	.000	.000	81.250	2.130
						82.000	2.220
						83.000	2.340

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PROPOSED 25 YEAR 24 HOUR STORM EVENT (P2524)
10-28-07

>>REACH NAME : RA
FROM NODE : BASINA
TO NODE : 97
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 87.500 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RB
FROM NODE : BASINB
TO NODE : 97
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 82.750 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RC
FROM NODE : BASINC
TO NODE : 97
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 85.000 BTM. WIDTH (ft): 15.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RE
FROM NODE : BASINE
TO NODE : BASINE2
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 80.500 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RF
FROM NODE : BASINF
TO NODE : BASINE2
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 94.000 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

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PROPOSED 25 YEAR 24 HOUR STORM EVENT (P2524)
10-28-07

>>REACH NAME : RH
FROM NODE : BASINH
TO NODE : 98
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 80.500 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RI
FROM NODE : BASINI
TO NODE : 98
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 77.750 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RJ
FROM NODE : BASINJ
TO NODE : 99
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 85.500 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

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PROPOSED 25 YEAR 24 HOUR STORM EVENT (P2524)
10-28-07

>>REACH NAME : RD
FROM NODE : BASIND
TO NODE : 97
REACH TYPE : DROP STRUCTURE w/ CIRC. CULVERT
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
TURBO SWITCH : OFF

CULVERT DATA :
SPAN (in): 18.000 RISE (in): 18.000 LENGTH (ft): 361.000
U/S INVERT (ft): 82.000 D/S INVERT (ft): 79.000 MANNING N: .013
ENTRNC LOSS: .500 # OF CULVERTS: 1.000

POSITION A : RECTANGULAR RISER SLOT
CREST EL. (ft): 89.500 CREST LN. (ft): 10.160 OPENING (ft): 999.000
WEIR COEF.: 3.200 GATE COEF.: .600 NUMBER OF ELEM.: 1.000

POSITION B : NOT USED

NOTE:

>>REACH NAME : RAB
FROM NODE : BASINAB
TO NODE : 97
REACH TYPE : DROP STRUCTURE w/ CIRC. CULVERT
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
TURBO SWITCH : OFF

CULVERT DATA :
SPAN (in): 12.000 RISE (in): 12.000 LENGTH (ft): 90.000
U/S INVERT (ft): 79.250 D/S INVERT (ft): 79.000 MANNING N: .013
ENTRNC LOSS: .500 # OF CULVERTS: 1.000

POSITION A : RECTANGULAR RISER SLOT
CREST EL. (ft): 82.500 CREST LN. (ft): 10.160 OPENING (ft): 999.000
WEIR COEF.: 3.200 GATE COEF.: .600 NUMBER OF ELEM.: 1.000

POSITION B : CIRCULAR RISER SLOT
INVERT EL. (ft): 81.250 SPAN (in): 4.000 RISE (in): 4.000
WEIR COEF.: 3.200 GATE COEF.: .600 NUMBER OF ELEM.: 1.000

NOTE:

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PROPOSED 25 YEAR 24 HOUR STORM EVENT (P2524)
10-28-07

REACH SUMMARY

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INDEX	RCHNAME	FRMNODE	TONODE	REACH TYPE
1	RA	BASINA	97	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
2	RB	BASINB	97	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
3	RC	BASINC	97	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
4	RE	BASINE	BASINE2	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
5	RF	BASINF	BASINE2	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
6	RH	BASINH	98	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
7	RI	BASINI	98	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
8	RJ	BASINJ	99	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
9	RD	BASIND	97	DROP STRUCTURE w/ CIRC. CULVERT
10	RAB	BASINAB	97	DROP STRUCTURE w/ CIRC. CULVERT

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PROPOSED 25 YEAR 24 HOUR STORM EVENT (P2524)
 10-28-07

NODAL MIN/MAX/TIME CONDITIONS REPORT

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|<-- MINIMUMS -->| |<-- MAXIMUMS -->|
|  VALUE  TIME (hr) | |  VALUE  TIME (hr) |
-----|-----|-----|-----|

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NODE ID	PARAMETER	VALUE	TIME (hr)	VALUE	TIME (hr)
BASINA	STAGE (ft):	84.00	7.25	87.50	24.00
	VOLUME (af):	.00	7.08	5.24	24.00
	RUNOFF (cfs):	.00	7.08	66.16	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	24.00	.00	24.00
BASINB	STAGE (ft):	80.00	8.50	82.86	14.25
	VOLUME (af):	.00	8.50	3.01	14.25
	RUNOFF (cfs):	.00	8.50	54.16	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	13.25	2.91	14.25
BASINC	STAGE (ft):	82.00	6.75	85.48	12.25
	VOLUME (af):	.00	6.75	2.22	12.25
	RUNOFF (cfs):	.00	6.75	57.00	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	12.00	16.92	12.25
BASIND	STAGE (ft):	86.00	9.42	89.41	24.00
	VOLUME (af):	.00	9.33	2.62	24.00
	RUNOFF (cfs):	.00	9.33	32.51	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	24.00	.00	24.00
BASINE	STAGE (ft):	79.00	10.00	80.74	13.25
	VOLUME (af):	.00	9.92	3.89	13.25
	RUNOFF (cfs):	.00	9.92	85.74	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	12.25	8.95	13.25

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PROPOSED 25 YEAR 24 HOUR STORM EVENT (P2524)
 10-28-07

NODAL MIN/MAX/TIME CONDITIONS REPORT

NODE ID	PARAMETER	<-- MINIMUMS -->		<-- MAXIMUMS -->	
		VALUE	TIME (hr)	VALUE	TIME (hr)
BASINF	STAGE (ft):	92.00	6.50	94.70	12.25
	VOLUME (af):	.00	6.50	2.86	12.25
	RUNOFF (cfs):	.00	6.50	94.24	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	11.83	48.74	12.25
BASINH	STAGE (ft):	79.00	9.83	80.58	14.00
	VOLUME (af):	.00	9.75	1.48	14.00
	RUNOFF (cfs):	.00	9.75	27.68	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	13.00	1.71	14.00
BASINI	STAGE (ft):	76.00	10.25	77.79	14.25
	VOLUME (af):	.00	10.17	.49	14.25
	RUNOFF (cfs):	.00	10.17	8.80	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	13.50	.52	14.25
BASINJ	STAGE (ft):	77.00	6.50	85.60	17.50
	VOLUME (af):	.00	6.50	6.76	17.50
	RUNOFF (cfs):	.00	6.50	99.03	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	16.50	2.53	17.50
97	STAGE (ft):	78.00	24.00	79.00	12.00
	VOLUME (af):	.00	5.75	4.27	24.00
	RUNOFF (cfs):	.00	24.00	.00	24.00
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	5.75	17.14	12.25
	OUTFLOW (cfs):	.00	24.00	.00	24.00

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PROPOSED 25 YEAR 24 HOUR STORM EVENT (P2524)
 10-28-07

NODAL MIN/MAX/TIME CONDITIONS REPORT

NODE ID	PARAMETER	<-- MINIMUMS -->		<-- MAXIMUMS -->	
		VALUE	TIME (hr)	VALUE	TIME (hr)
98	STAGE (ft):	60.00	24.00	62.00	12.00
	VOLUME (af):	.00	13.00	1.06	24.00
	RUNOFF (cfs):	.00	24.00	.00	24.00
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	13.00	2.23	14.25
	OUTFLOW (cfs):	.00	24.00	.00	24.00
99	STAGE (ft):	62.00	24.00	63.00	12.00
	VOLUME (af):	.00	16.50	1.13	24.00
	RUNOFF (cfs):	.00	24.00	.00	24.00
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	16.50	2.53	17.50
	OUTFLOW (cfs):	.00	24.00	.00	24.00
100	STAGE (ft):	69.00	.00	73.00	12.00
	VOLUME (af):	.00	24.00	.00	24.00
	RUNOFF (cfs):	.00	24.00	.00	24.00
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	24.00	.00	24.00
BASINE2	STAGE (ft):	78.00	11.83	80.06	24.00
	VOLUME (af):	.00	11.83	8.86	24.00
	RUNOFF (cfs):	.00	24.00	.00	24.00
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	11.83	48.74	12.25
	OUTFLOW (cfs):	.00	24.00	.00	24.00
BASINAB	STAGE (ft):	81.25	5.75	81.92	23.50
	VOLUME (af):	.00	5.50	1.47	23.50
	RUNOFF (cfs):	.00	5.50	21.93	11.92
	OFFSITE (cfs):	.00	24.00	.00	24.00
	OTHER (cfs):	.00	24.00	.00	24.00
	OUTFLOW (cfs):	.00	5.75	.30	23.50

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PROPOSED 25 YEAR 96 HOUR STORM EVENT (P2596)
10-28-07

BASIN NAME	BASINA	BASINB	BASINC	BASIND	BASINE
NODE NAME	BASINA	BASINB	BASINC	BASIND	BASINE
TIME INCREMENT (min)	5.00	5.00	5.00	5.00	5.00
RAINFALL FILE	SJRWMD96	SJRWMD96	SJRWMD96	SJRWMD96	SJRWMD96
RAIN AMOUNT (in)	11.40	11.40	11.40	11.40	11.40
STORM DURATION (hrs)	96.00	96.00	96.00	96.00	96.00
AREA (ac)	13.11	12.52	11.00	8.64	25.64
CURVE NUMBER	69.24	63.69	70.32	59.49	56.42
DCIA (%)	.00	.00	.00	.00	.00
TC (mins)	10.00	10.00	10.00	10.00	10.00
LAG TIME (hrs)	.00	.00	.00	.00	.00
BASIN STATUS	ONSITE	ONSITE	ONSITE	ONSITE	ONSITE

BASIN	QMX (cfs)	TMX (hrs)	VOL (in)	NOTES
BASINA	60.38	59.92	7.39	
BASINB	52.51	59.92	6.59	
BASINC	51.48	59.92	7.54	
BASIND	33.26	59.92	5.98	
BASINE	91.81	59.92	5.52	

BASIN NAME	BASINF	BASINH	BASINI	BASINJ	BASINAB
NODE NAME	BASINF	BASINH	BASINI	BASINJ	BASINAB
TIME INCREMENT (min)	5.00	5.00	5.00	5.00	5.00
RAINFALL FILE	SJRWMD96	SJRWMD96	SJRWMD96	SJRWMD96	SJRWMD96
RAIN AMOUNT (in)	11.40	11.40	11.40	11.40	11.40
STORM DURATION (hrs)	96.00	96.00	96.00	96.00	96.00
AREA (ac)	17.47	7.99	2.78	18.40	3.75
CURVE NUMBER	72.03	57.30	55.13	71.93	75.82
DCIA (%)	.00	.00	.00	.00	.00
TC (mins)	10.00	10.00	10.00	10.00	10.00
LAG TIME (hrs)	.00	.00	.00	.00	.00
BASIN STATUS	ONSITE	ONSITE	ONSITE	ONSITE	ONSITE

BASIN	QMX (cfs)	TMX (hrs)	VOL (in)	NOTES
BASINF	83.73	59.92	7.78	
BASINH	29.24	59.92	5.65	
BASINI	9.63	59.92	5.33	
BASINJ	88.07	59.92	7.76	
BASINAB	18.84	59.92	8.30	

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PROPOSED 25 YEAR 96 HOUR STORM EVENT (P2596)
10-28-07

CONTROL PARAMETERS

=====

START TIME: .00
END TIME: 96.00

TO TIME (hours)	SIMULATION INC (secs)	PRINT INC (mins)
-----	-----	-----
24.00	2.00	30.00
48.00	2.00	15.00
60.00	2.00	5.00
72.00	2.00	15.00
96.00	2.00	30.00

RUNOFF HYDROGRAPH FILE: DEFAULT
OFFSITE HYDROGRAPH FILE: DEFAULT
BOUNDARY DATABASE FILE: NONE

NOTE:

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PROPOSED 25 YEAR 96 HOUR STORM EVENT (P2596)
 10-28-07

NODE NAME	NODE TYPE	INI STAGE (ft)	X-COOR (ft)	Y-COOR (ft)	LENGTH (ft)	STAGE (ft)	AR/TM/STR (ac/hr/af)
BASINA	AREA	84.000	.000	.000	.000	84.000	1.150
						85.000	1.340
						86.000	1.540
						87.000	1.740
						88.000	1.940
BASINB	AREA	80.000	.000	.000	.000	80.000	.900
						81.000	.980
						82.000	1.080
						83.000	1.320
BASINC	AREA	82.000	.000	.000	.000	82.000	.470
						83.000	.570
						84.000	.670
						85.000	.790
						85.500	.860
BASIND	AREA	86.000	.000	.000	.000	86.000	.610
						87.000	.700
						88.000	.790
						89.000	.880
						90.000	.970
BASINE	AREA	79.000	.000	.000	.000	79.000	1.880
						80.000	2.280
						81.000	2.640
						82.000	3.000
BASINF	AREA	92.000	.000	.000	.000	92.000	.920
						93.000	1.020
						94.000	1.120
						95.000	1.230
BASINH	AREA	79.000	.000	.000	.000	79.000	.737
						80.000	.957
						81.000	1.220
						82.000	1.490
BASINI	AREA	76.000	.000	.000	.000	76.000	.180
						77.000	.280
						78.000	.380

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PROPOSED 25 YEAR 96 HOUR STORM EVENT (P2596)
 10-28-07

NODE NAME	NODE TYPE	INI STAGE (ft)	X-COOR (ft)	Y-COOR (ft)	LENGTH (ft)	STAGE (ft)	AR/TM/STR (ac/hr/af)
BASINJ	AREA	77.000	.000	.000	.000	77.000	.650
						78.000	.690
						79.000	.730
						80.000	.770
						81.000	.810
						82.000	.830
						83.000	.840
						84.000	.840
						85.000	.840
						86.000	.850
97	TIME	78.000	.000	.000	.000	78.000	.000
						79.000	48.000
						78.000	96.000
98	TIME	60.000	.000	.000	.000	60.000	.000
						62.000	48.000
						60.000	96.000
99	TIME	62.000	.000	.000	.000	62.000	.000
						63.000	48.000
						62.000	96.000
100	TIME	69.000	.000	.000	.000	72.500	.000
						73.000	48.000
						72.500	96.000
BASINE2	AREA	78.000	.000	.000	.000	78.000	4.170
						79.000	4.290
						80.000	4.410
						81.000	4.530
						82.000	5.160
BASINAB	AREA	81.250	.000	.000	.000	81.250	2.130
						82.000	2.220
						83.000	2.340

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PROPOSED 25 YEAR 96 HOUR STORM EVENT (P2596)
10-28-07

>>REACH NAME : RA
FROM NODE : BASINA
TO NODE : 97
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 87.500 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RB
FROM NODE : BASINB
TO NODE : 97
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 82.750 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RC
FROM NODE : BASINC
TO NODE : 97
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 85.000 BTM. WIDTH (ft): 15.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RE
FROM NODE : BASINE
TO NODE : BASINE2
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 80.500 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RF
FROM NODE : BASINF
TO NODE : BASINE2
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 94.000 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

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PROPOSED 25 YEAR 96 HOUR STORM EVENT (P2596)
10-28-07

>>REACH NAME : RH
FROM NODE : BASINH
TO NODE : 98
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 80.500 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RI
FROM NODE : BASINI
TO NODE : 98
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 77.750 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

>>REACH NAME : RJ
FROM NODE : BASINJ
TO NODE : 99
REACH TYPE : TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
CREST EL. (ft): 85.500 BTM. WIDTH (ft): 25.000 LEFT SS (h/v): 4.000
RGHT SS (h/v): 4.000 OPENING (ft): 999.000 WEIR COEF.: 3.000
GATE COEF.: .600 NUMBER OF ELEM.: 1.000
NOTE:

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PROPOSED 25 YEAR 96 HOUR STORM EVENT (P2596)
10-28-07

>>REACH NAME : RD
FROM NODE : BASIND
TO NODE : 97
REACH TYPE : DROP STRUCTURE w/ CIRC. CULVERT
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
TURBO SWITCH : OFF

CULVERT DATA :

SPAN (in): 18.000 RISE (in): 18.000 LENGTH (ft): 361.000
U/S INVERT (ft): 82.000 D/S INVERT (ft): 79.000 MANNING N: .013
ENTRNC LOSS: .500 # OF CULVERTS: 1.000

POSITION A : RECTANGULAR RISER SLOT

CREST EL. (ft): 89.500 CREST LN. (ft): 10.160 OPENING (ft): 999.000
WEIR COEF.: 3.200 GATE COEF.: .600 NUMBER OF ELEM.: 1.000

POSITION B : NOT USED

NOTE:

>>REACH NAME : RAB
FROM NODE : BASINAB
TO NODE : 97
REACH TYPE : DROP STRUCTURE w/ CIRC. CULVERT
FLOW DIRECTION : POSITIVE AND NEGATIVE FLOWS ALLOWED
TURBO SWITCH : OFF

CULVERT DATA :

SPAN (in): 12.000 RISE (in): 12.000 LENGTH (ft): 90.000
U/S INVERT (ft): 79.250 D/S INVERT (ft): 79.000 MANNING N: .013
ENTRNC LOSS: .500 # OF CULVERTS: 1.000

POSITION A : RECTANGULAR RISER SLOT

CREST EL. (ft): 82.500 CREST LN. (ft): 10.160 OPENING (ft): 999.000
WEIR COEF.: 3.200 GATE COEF.: .600 NUMBER OF ELEM.: 1.000

POSITION B : CIRCULAR RISER SLOT

INVERT EL. (ft): 81.250 SPAN (in): 4.000 RISE (in): 4.000
WEIR COEF.: 3.200 GATE COEF.: .600 NUMBER OF ELEM.: 1.000

NOTE:

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PROPOSED 25 YEAR 96 HOUR STORM EVENT (P2596)
10-28-07

REACH SUMMARY
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INDEX	RCHNAME	FRMNODE	TONODE	REACH TYPE
1	RA	BASINA	97	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
2	RB	BASINB	97	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
3	RC	BASINC	97	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
4	RE	BASINE	BASINE2	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
5	RF	BASINF	BASINE2	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
6	RH	BASINH	98	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
7	RI	BASINI	98	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
8	RJ	BASINJ	99	TRAPEZOIDAL WEIR/GATE/ORIFICE, MAVIS EQ.
9	RD	BASIND	97	DROP STRUCTURE w/ CIRC. CULVERT
10	RAB	BASINAB	97	DROP STRUCTURE w/ CIRC. CULVERT

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PROPOSED 25 YEAR 96 HOUR STORM EVENT (P2596)
 10-28-07

NODAL MIN/MAX/TIME CONDITIONS REPORT

NODE ID	PARAMETER	<-- MINIMUMS -->		<-- MAXIMUMS -->	
		VALUE	TIME (hr)	VALUE	TIME (hr)
BASINA	STAGE (ft):	84.00	27.25	87.62	62.25
	VOLUME (af):	.00	27.25	5.46	62.25
	RUNOFF (cfs):	.00	27.25	60.38	59.92
	OFFSITE (cfs):	.00	96.00	.00	96.00
	OTHER (cfs):	.00	96.00	.00	96.00
	OUTFLOW (cfs):	.00	61.00	3.11	62.25
BASINB	STAGE (ft):	80.00	31.00	83.14	60.25
	VOLUME (af):	.00	31.00	3.33	60.25
	RUNOFF (cfs):	.00	31.00	52.51	59.92
	OFFSITE (cfs):	.00	96.00	.00	96.00
	OTHER (cfs):	.00	96.00	.00	96.00
	OUTFLOW (cfs):	.00	59.92	19.21	60.25
BASINC	STAGE (ft):	82.00	26.50	85.83	60.00
	VOLUME (af):	.00	26.50	2.56	60.00
	RUNOFF (cfs):	.00	26.50	51.48	59.92
	OFFSITE (cfs):	.00	96.00	.00	96.00
	OTHER (cfs):	.00	96.00	.00	96.00
	OUTFLOW (cfs):	.00	59.58	41.62	60.00
BASIND	STAGE (ft):	86.00	34.50	89.63	63.75
	VOLUME (af):	.00	34.25	2.82	63.75
	RUNOFF (cfs):	.00	34.25	33.26	59.92
	OFFSITE (cfs):	.00	96.00	.00	96.00
	OTHER (cfs):	.00	96.00	.00	96.00
	OUTFLOW (cfs):	.00	61.25	1.59	63.75
BASINE	STAGE (ft):	79.00	37.25	81.48	96.00
	VOLUME (af):	.00	37.00	5.90	96.00
	RUNOFF (cfs):	.00	37.00	91.81	59.92
	OFFSITE (cfs):	.00	96.00	.00	96.00
	OTHER (cfs):	.00	96.00	.00	96.00
	OUTFLOW (cfs):	.00	59.75	39.21	60.25

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PROPOSED 25 YEAR 96 HOUR STORM EVENT (P2596)
 10-28-07

NODAL MIN/MAX/TIME CONDITIONS REPORT

NODE ID	PARAMETER	<-- MINIMUMS -->		<-- MAXIMUMS -->	
		VALUE	TIME (hr)	VALUE	TIME (hr)
BASINF	STAGE (ft):	92.00	25.50	94.91	60.00
	VOLUME (af):	.00	25.50	3.11	60.00
	RUNOFF (cfs):	.00	25.50	83.73	59.92
	OFFSITE (cfs):	.00	96.00	.00	96.00
	OTHER (cfs):	.00	96.00	.00	96.00
	OUTFLOW (cfs):	.00	58.58	75.11	60.00
BASINH	STAGE (ft):	79.00	36.25	80.77	60.25
	VOLUME (af):	.00	36.25	1.68	60.25
	RUNOFF (cfs):	.00	36.25	29.24	59.92
	OFFSITE (cfs):	.00	96.00	.00	96.00
	OTHER (cfs):	.00	96.00	.00	96.00
	OUTFLOW (cfs):	.00	59.92	10.89	60.25
BASINI	STAGE (ft):	76.00	38.50	77.90	60.25
	VOLUME (af):	.00	38.25	.53	60.25
	RUNOFF (cfs):	.00	38.25	9.63	59.92
	OFFSITE (cfs):	.00	96.00	.00	96.00
	OTHER (cfs):	.00	96.00	.00	96.00
	OUTFLOW (cfs):	.00	60.00	4.32	60.25
BASINJ	STAGE (ft):	77.00	25.50	85.86	60.50
	VOLUME (af):	.00	25.50	6.99	60.50
	RUNOFF (cfs):	.00	25.50	88.07	59.92
	OFFSITE (cfs):	.00	96.00	.00	96.00
	OTHER (cfs):	.00	96.00	.00	96.00
	OUTFLOW (cfs):	.00	60.25	17.48	60.50
97	STAGE (ft):	78.00	96.00	79.00	48.00
	VOLUME (af):	.00	23.00	14.62	96.00
	RUNOFF (cfs):	.00	96.00	.00	96.00
	OFFSITE (cfs):	.00	96.00	.00	96.00
	OTHER (cfs):	.00	23.00	48.88	60.25
	OUTFLOW (cfs):	.00	96.00	.00	96.00

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OCT 31 2007

PDS
 ALTAMONTE SVC. CENTER

18971-3

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PROPOSED 25 YEAR 96 HOUR STORM EVENT (P2596)
10-28-07

NODAL MIN/MAX/TIME CONDITIONS REPORT

NODE ID	PARAMETER	<-- MINIMUMS -->		<-- MAXIMUMS -->	
		VALUE	TIME (hr)	VALUE	TIME (hr)
98	STAGE (ft):	60.00	96.00	62.00	48.00
	VOLUME (af):	.00	59.92	3.15	96.00
	RUNOFF (cfs):	.00	96.00	.00	96.00
	OFFSITE (cfs):	.00	96.00	.00	96.00
	OTHER (cfs):	.00	59.92	15.20	60.25
	OUTFLOW (cfs):	.00	96.00	.00	96.00
99	STAGE (ft):	62.00	96.00	63.00	48.00
	VOLUME (af):	.00	60.25	5.32	96.00
	RUNOFF (cfs):	.00	96.00	.00	96.00
	OFFSITE (cfs):	.00	96.00	.00	96.00
	OTHER (cfs):	.00	60.25	17.48	60.50
	OUTFLOW (cfs):	.00	96.00	.00	96.00
100	STAGE (ft):	69.00	.00	73.00	48.00
	VOLUME (af):	.00	96.00	.00	96.00
	RUNOFF (cfs):	.00	96.00	.00	96.00
	OFFSITE (cfs):	.00	96.00	.00	96.00
	OTHER (cfs):	.00	96.00	.00	96.00
	OUTFLOW (cfs):	.00	96.00	.00	96.00
BASINE2	STAGE (ft):	78.00	58.58	81.48	96.00
	VOLUME (af):	.00	58.58	15.38	96.00
	RUNOFF (cfs):	.00	96.00	.00	96.00
	OFFSITE (cfs):	.00	96.00	.00	96.00
	OTHER (cfs):	.00	58.58	98.84	60.00
	OUTFLOW (cfs):	.00	96.00	.00	96.00
BASINAB	STAGE (ft):	81.25	23.00	82.11	68.50
	VOLUME (af):	.00	22.50	1.88	68.50
	RUNOFF (cfs):	.00	22.50	18.84	59.92
	OFFSITE (cfs):	.00	96.00	.00	96.00
	OTHER (cfs):	.00	96.00	.00	96.00
	OUTFLOW (cfs):	.00	23.00	.35	68.50

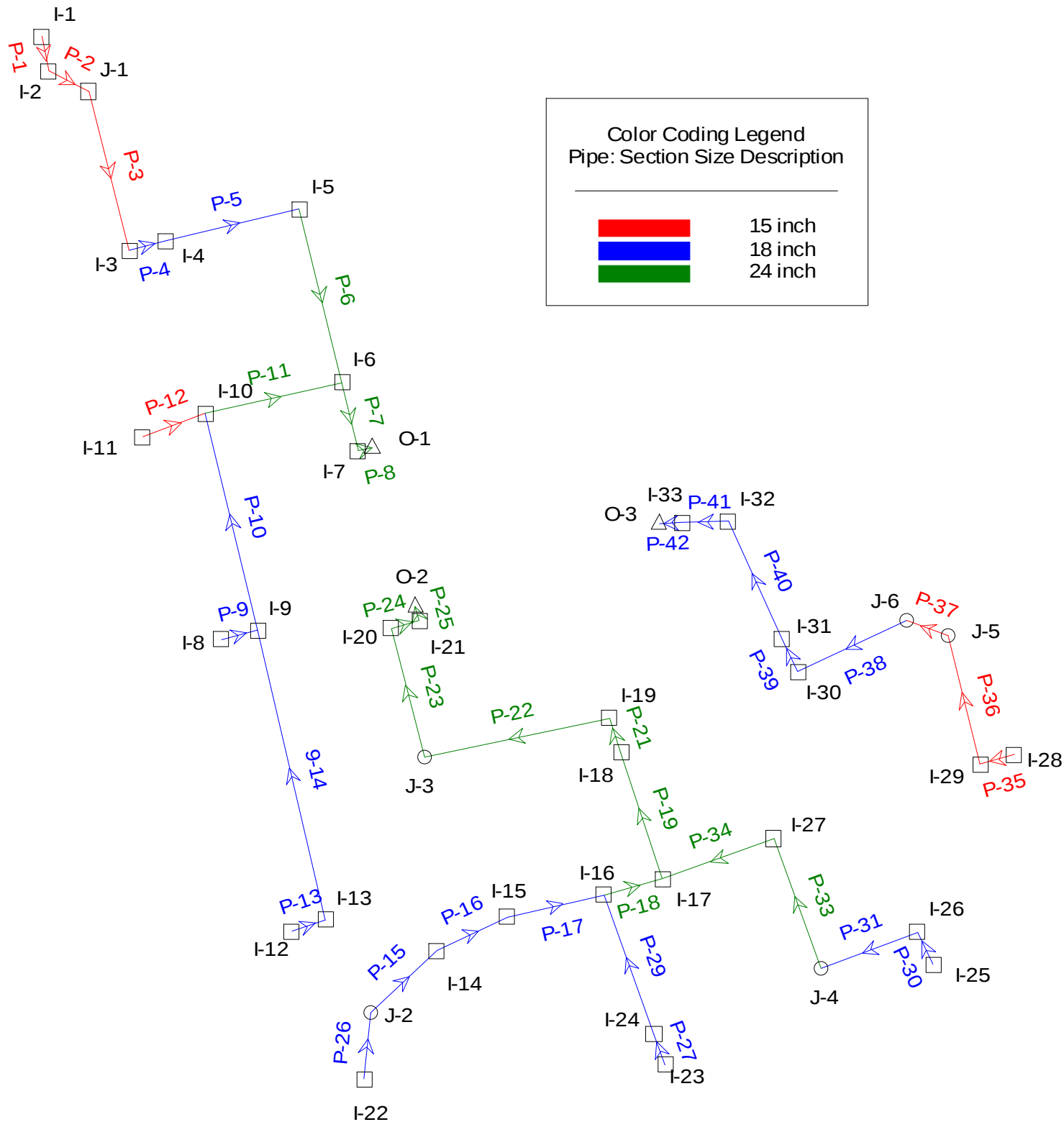
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PDS
ALTAMONTE SVC. CTR.

Secondary Drainage System Calculations (StormCAD)

Scenario: Base



Scenario: Base

Pipe Report

Label	Up. Invert (ft)	Dn. Invert (ft)	User L?	L (ft)	S (ft/ft)	Up. Node	Dn. Node	Size	Mannings n	Q Full (cfs)	HGL In (ft)	Avg. v (ft/s)	HGL Out (ft)	Material
P-1	89.81	89.67	false	28.00	0.005000	I-1	I-2	15 inch	0.012	4.95	90.03	2.18	90.04	HDPE
P-2	89.67	88.47	false	36.00	0.033333	I-2	J-1	15 inch	0.012	12.78	89.98	5.42	89.12	HDPE
P-3	88.47	84.61	false	129.00	0.029922	J-1	I-3	15 inch	0.012	12.10	89.01	7.14	85.41	HDPE
P-4	84.61	84.26	false	30.00	0.011667	I-3	I-4	18 inch	0.012	12.29	85.28	5.80	85.22	HDPE
P-5	84.26	82.90	false	108.00	0.012593	I-4	I-5	18 inch	0.012	12.77	85.06	6.54	83.87	HDPE
P-6	82.90	81.16	false	140.00	0.012429	I-5	I-6	24 inch	0.012	27.32	83.71	6.74	83.35	HDPE
P-7	81.16	81.05	false	55.00	0.002000	I-6	I-7	24 inch	0.012	10.96	83.08	5.73	82.58	HDPE
P-8	77.05	77.00	false	11.00	0.004545	I-7	O-1	24 inch	0.012	16.52	81.00	6.05	80.93	HDPE
P-9	81.79	81.73	false	29.00	0.002069	I-8	I-9	18 inch	0.012	5.18	85.38	2.56	85.34	HDPE
P-10	81.73	81.38	false	175.00	0.002000	I-9	I-10	18 inch	0.012	5.09	85.09	5.69	83.72	HDPE
P-11	81.38	81.16	false	110.00	0.002000	I-10	I-6	24 inch	0.012	10.96	83.61	3.80	83.35	HDPE
P-12	86.92	86.02	false	53.00	0.016981	I-11	I-10	15 inch	0.012	9.12	87.29	4.74	86.29	HDPE
P-13	83.78	83.32	false	28.00	0.016429	I-12	I-13	18 inch	0.012	14.59	85.76	1.41	85.75	HDPE
P-14	83.32	81.73	false	233.00	0.006824	I-13	I-9	18 inch	0.012	9.40	85.70	2.53	85.34	HDPE
P-15	82.34	82.15	false	71.00	0.002676	J-2	I-14	18 inch	0.012	5.89	85.07	2.34	84.97	HDPE
P-16	82.15	81.98	false	61.00	0.002787	I-14	I-15	18 inch	0.012	6.01	84.91	2.91	84.78	HDPE
P-17	81.98	81.76	false	78.00	0.002821	I-15	I-16	18 inch	0.012	6.04	84.72	2.92	84.56	HDPE
P-18	81.76	80.88	false	48.00	0.018333	I-16	I-17	24 inch	0.012	33.18	84.48	3.17	84.40	HDPE
P-19	80.88	80.67	false	105.00	0.002000	I-17	I-18	24 inch	0.012	10.96	84.22	4.80	83.82	HDPE
P-21	80.67	80.61	false	28.00	0.002143	I-18	I-19	24 inch	0.012	11.34	83.60	5.28	83.48	HDPE
P-22	80.61	78.96	false	148.00	0.011149	I-19	J-3	24 inch	0.012	25.88	83.22	5.75	82.42	HDPE
P-23	78.96	77.45	false	105.00	0.014381	J-3	I-20	24 inch	0.012	29.39	82.17	5.67	81.61	HDPE
P-24	77.45	77.12	false	23.00	0.014348	I-20	I-21	24 inch	0.012	29.35	81.36	5.67	81.24	HDPE
P-25	77.12	77.00	false	11.00	0.010909	I-21	O-2	24 inch	0.012	25.60	80.99	5.69	80.93	HDPE
P-26	82.48	82.34	false	53.00	0.002642	I-22	J-2	18 inch	0.012	5.85	85.18	2.37	85.11	HDPE
P-27	82.24	82.19	false	25.00	0.002000	I-24	I-23	18 inch	0.012	5.09	84.77	1.36	84.76	HDPE
P-29	82.19	81.76	false	116.00	0.003707	I-23	I-16	18 inch	0.012	6.93	84.71	2.37	84.56	HDPE
P-30	81.50	81.44	false	28.00	0.002143	I-25	I-26	18 inch	0.012	5.27	84.71	0.92	84.70	HDPE
P-31	81.44	81.28	false	81.00	0.001975	I-26	J-4	18 inch	0.012	5.06	84.65	2.60	84.52	HDPE
P-33	81.28	81.07	false	109.00	0.001927	J-4	I-27	24 inch	0.012	10.76	84.50	1.44	84.46	HDPE
P-34	81.07	80.88	false	93.00	0.002043	I-27	I-17	24 inch	0.012	11.08	84.44	1.69	84.40	HDPE
P-35	81.38	81.17	false	27.00	0.007778	I-28	I-29	15 inch	0.012	6.17	84.03	1.81	84.00	HDPE
P-36	81.17	80.39	false	104.00	0.007500	I-29	J-5	15 inch	0.012	6.06	83.84	4.48	83.20	HDPE
P-37	80.39	80.13	false	34.00	0.007647	J-5	J-6	15 inch	0.012	6.12	83.05	4.44	82.84	HDPE
P-38	80.13	79.41	false	94.00	0.007660	J-6	I-30	18 inch	0.012	9.96	82.77	3.07	82.55	HDPE
P-39	79.41	79.20	false	29.00	0.007241	I-30	I-31	18 inch	0.012	9.68	82.44	3.79	82.34	HDPE
P-40	79.20	78.45	false	101.00	0.007426	I-31	I-32	18 inch	0.012	9.81	82.19	4.48	81.70	HDPE
P-41	78.45	78.10	false	36.00	0.009722	I-32	I-33	18 inch	0.012	11.22	81.54	4.49	81.36	HDPE
P-42	78.10	77.00	false	18.00	0.061111	I-33	O-3	18 inch	0.012	28.13	81.09	5.99	80.93	HDPE

Scenario: Base

Inlet Report

Label	Inlet C	Area (acres)	Ground Elev. (ft)	Rim Elev. (ft)	Hydraulic Grade Line In (ft)	Hydraulic Grade Line Out (ft)	Inv. In Elev. (ft)	Inv. Out Elev. (ft)	Inlet CA (acres)	Time of Concentration (min)	Total Intercepted Flow (cfs)	Bypassed Additional Flow (cfs)	Desired Sump Depth (ft)	Sump Elevation (ft)
I-1	0.75	0.05	94.32	94.32	90.06	90.03	N/A	89.81	0.04	10.00	0.28	0.00	0.00	89.81
I-2	0.75	0.06	94.32	94.32	90.04	89.98	89.67	89.67	0.05	10.00	0.36	0.00	0.00	89.67
I-3	0.55	0.31	92.66	92.66	85.41	85.28	84.61	84.61	0.17	10.00	1.28	0.00	0.00	84.61
I-4	0.55	0.31	92.66	92.66	85.22	85.06	84.26	84.26	0.17	10.00	1.28	0.00	0.00	84.26
I-5	0.75	0.18	91.20	91.20	83.87	83.71	82.90	82.90	0.14	10.00	1.03	0.00	0.00	82.90
I-6	0.75	0.23	89.70	89.70	83.35	83.08	81.16	81.16	0.17	10.00	1.28	0.00	0.00	81.16
I-7	0.75	0.21	89.20	89.20	81.28	81.00	81.05	77.05	0.16	10.00	1.19	0.00	0.00	77.05
I-8	0.65	0.93	89.52	89.52	85.43	85.38	N/A	81.79	0.61	10.00	4.52	0.00	0.00	81.79
I-9	0.75	0.28	89.52	89.52	85.34	85.09	81.73	81.73	0.21	10.00	1.56	0.00	0.00	81.73
I-10	0.75	0.23	91.30	91.30	83.72	83.61	81.38	81.38	0.17	10.00	1.27	0.00	0.00	81.38
I-11	0.75	0.16	92.30	92.68	87.36	87.29	N/A	86.92	0.12	10.00	0.90	0.00	0.00	86.92
I-12	0.65	0.51	87.69	87.69	85.78	85.76	N/A	83.78	0.33	10.00	2.49	0.00	0.00	83.78
I-13	0.75	0.36	89.67	89.67	85.75	85.70	83.32	83.32	0.27	10.00	2.02	0.00	0.00	83.32
I-14	0.55	0.27	87.00	87.00	84.97	84.91	82.15	82.15	0.15	10.00	1.09	0.00	0.00	82.15
I-15	0.25	0.04	87.50	87.50	84.78	84.72	81.98	81.98	0.01	10.00	0.07	0.00	0.00	81.98
I-16	0.55	0.21	87.00	87.00	84.56	84.48	81.76	81.76	0.12	10.00	0.87	0.00	0.00	81.76
I-17	0.55	0.11	86.50	86.50	84.40	84.22	80.88	80.88	0.06	10.00	0.44	0.00	0.00	80.88
I-18	0.75	0.33	87.92	87.92	83.82	83.60	80.67	80.67	0.25	10.00	1.85	0.00	0.00	80.67
I-19	0.75	0.30	87.92	87.92	83.48	83.22	80.61	80.61	0.22	10.00	1.67	0.00	0.00	80.61
I-20	0.25	0.09	88.70	88.70	81.61	81.36	77.45	77.45	0.02	10.00	0.16	0.00	0.00	77.45
I-21	0.55	0.03	86.92	86.92	81.24	80.99	77.12	77.12	0.02	10.00	0.12	0.00	0.00	77.12
I-22	0.65	0.86	87.17	87.17	85.23	85.18	N/A	82.48	0.56	10.00	4.18	0.00	0.00	82.48
I-23	0.65	0.38	86.16	86.16	84.76	84.71	82.19	82.19	0.24	10.00	1.82	0.00	0.00	82.24
I-24	0.75	0.43	86.16	86.16	84.78	84.77	N/A	82.24	0.32	10.00	2.40	0.00	0.00	82.19
I-25	0.65	0.33	85.23	85.23	84.71	84.71	N/A	81.50	0.22	10.00	1.62	0.00	0.00	81.50
I-26	0.75	0.54	85.23	85.23	84.70	84.65	81.44	81.44	0.41	10.00	3.03	0.00	0.00	81.44
I-27	0.55	0.24	86.05	86.05	84.46	84.44	81.07	81.07	0.13	10.00	1.00	0.00	0.00	81.07
I-28	0.65	0.46	85.88	85.88	84.05	84.03	N/A	81.38	0.30	10.00	2.22	0.00	0.00	81.38
I-29	0.75	0.59	85.88	85.88	84.00	83.84	81.17	81.17	0.44	10.00	3.32	0.00	0.00	81.17
I-30	0.75	0.25	87.12	87.12	82.55	82.44	79.41	79.41	0.19	10.00	1.39	0.00	0.00	79.41
I-31	0.75	0.23	87.12	87.12	82.34	82.19	79.20	79.20	0.17	10.00	1.30	0.00	0.00	79.20
I-32	0.55	0.03	87.37	87.37	81.70	81.54	78.45	78.45	0.01	10.00	0.10	0.00	0.00	78.45
I-33	0.55	0.69	86.00	86.00	81.36	81.09	78.10	78.10	0.38	10.00	2.83	0.00	0.00	78.10
J-1	0.55	0.30	94.03	94.03	89.12	89.01	88.47	88.47	0.17	10.00	1.24	0.00	0.00	88.47

Scenario: Base

Outlet Report

Label	Station (ft)	Ground Elevation (ft)	System CA (acres)	Rim Elevation (ft)	Tailwater Elevation (ft)	Description
O-1	0+00	91.00	2.77	91.00	80.93	50% 25/24 PEAK FROM 18971-3
O-2	0+00	87.00	2.72	87.00	80.93	50% 25/24 PEAK FROM 18971-3
O-3	0+00	87.00	1.50	87.00	80.93	50% 25/24 PEAK FROM 18971-3

Scenario: Base

Junction Report

Label	Rim Elevation (ft)	Hydraulic Grade Line In (ft)	Hydraulic Grade Line Out (ft)	Structure Diameter (ft)	Sump Elevation (ft)
J-2	87.43	85.11	85.07	4.00	82.34
J-3	88.75	82.42	82.17	4.00	78.96
J-4	85.73	84.52	84.50	4.00	81.28
J-5	86.55	83.20	83.05	4.00	80.39
J-6	86.74	82.84	82.77	4.00	80.13

Scenario: Base

DOT Report

Label	-Node- Up. Dn.	L (ft)	-Invert- Up. Dn. (ft)	S (ft/ft)	Section Shape Size	Up. Inlet Area (acres)	-Ground- Up. Dn. (ft)	-HGL- Up. Dn. (ft)	Up. Calc. Sys. CA (acres)	-Cover- Up. Dn. (ft)	Avg. v (ft/s)	Mannings n	Excess Full Cap. (cfs)
P-1	I-1	28.00	89.81	0.005000	Circular	0.05	94.32	90.03	0.04	3.26	2.18	0.012	4.67
	I-2		89.67		15 inch		94.32	90.04		3.40			
P-2	I-2	36.00	89.67	0.033333	Circular	0.06	94.32	89.98	0.09	3.40	5.42	0.012	12.14
	J-1		88.47		15 inch		94.03	89.12		4.31			
P-4	I-3	30.00	84.61	0.011667	Circular	0.31	92.66	85.28	0.42	6.55	5.80	0.012	9.19
	I-4		84.26		18 inch		92.66	85.22		6.90			
P-5	I-4	108.00	84.26	0.012593	Circular	0.31	92.66	85.06	0.59	6.90	6.54	0.012	8.42
	I-5		82.90		18 inch		91.20	83.87		6.80			
P-6	I-5	140.00	82.90	0.012429	Circular	0.18	91.20	83.71	0.73	6.30	6.74	0.012	22.00
	I-6		81.16		24 inch		89.70	83.35		6.54			
P-7	I-6	55.00	81.16	0.002000	Circular	0.23	89.70	83.08	2.61	6.54	5.73	0.012	-7.04
	I-7		81.05		24 inch		89.20	82.58		6.15			
P-8	I-7	11.00	77.05	0.004545	Circular	0.21	89.20	81.00	2.77	10.15	6.05	0.012	-2.48
	O-1		77.00		24 inch		91.00	80.93		12.00			
P-9	I-8	29.00	81.79	0.002069	Circular	0.93	89.52	85.38	0.61	6.23	2.56	0.012	0.65
	I-9		81.73		18 inch		89.52	85.34		6.29			
P-10	I-9	175.00	81.73	0.002000	Circular	0.28	89.52	85.09	1.42	6.29	5.69	0.012	-4.97
	I-10		81.38		18 inch		91.30	83.72		8.42			
P-11	I-10	110.00	81.38	0.002000	Circular	0.23	91.30	83.61	1.71	7.92	3.80	0.012	-0.98
	I-6		81.16		24 inch		89.70	83.35		6.54			
P-12	I-11	53.00	86.92	0.016981	Circular	0.16	92.30	87.29	0.12	4.13	4.74	0.012	8.22
	I-10		86.02		15 inch		91.30	86.29		4.03			
P-13	I-12	28.00	83.78	0.016429	Circular	0.51	87.69	85.76	0.33	2.41	1.41	0.012	12.10
	I-13		83.32		18 inch		89.67	85.75		4.85			
P-14	I-13	233.00	83.32	0.006824	Circular	0.36	89.67	85.70	0.60	4.85	2.53	0.012	4.93
	I-9		81.73		18 inch		89.52	85.34		6.29			
P-16	I-14	61.00	82.15	0.002787	Circular	0.27	87.00	84.91	0.71	3.35	2.91	0.012	0.86
	I-15		81.98		18 inch		87.50	84.78		4.02			
P-17	I-15	78.00	81.98	0.002821	Circular	0.04	87.50	84.72	0.71	4.02	2.92	0.012	0.88
	I-16		81.76		18 inch		87.00	84.56		3.74			
P-18	I-16	48.00	81.76	0.018333	Circular	0.21	87.00	84.48	1.40	3.24	3.17	0.012	23.22
	I-17		80.88		24 inch		86.50	84.40		3.62			
P-19	I-17	105.00	80.88	0.002000	Circular	0.11	86.50	84.22	2.21	3.62	4.80	0.012	-4.13
	I-18		80.67		24 inch		87.92	83.82		5.25			
P-21	I-18	28.00	80.67	0.002143	Circular	0.33	87.92	83.60	2.46	5.25	5.28	0.012	-5.25
	I-19		80.61		24 inch		87.92	83.48		5.31			
P-22	I-19	148.00	80.61	0.011149	Circular	0.30	87.92	83.22	2.68	5.31	5.75	0.012	7.82
	J-3		78.96		24 inch		88.75	82.42		7.79			
P-24	I-20	23.00	77.45	0.014348	Circular	0.09	88.70	81.36	2.71	9.25	5.67	0.012	11.56
	I-21		77.12		24 inch		86.92	81.24		7.80			
P-25	I-21	11.00	77.12	0.010909	Circular	0.03	86.92	80.99	2.72	7.80	5.69	0.012	7.73
	O-2		77.00		24 inch		87.00	80.93		8.00			
P-26	I-22	53.00	82.48	0.002642	Circular	0.86	87.17	85.18	0.56	3.19	2.37	0.012	1.66
	J-2		82.34		18 inch		87.43	85.11		3.59			
P-29	I-23	116.00	82.19	0.003707	Circular	0.38	86.16	84.71	0.56	2.47	2.37	0.012	2.75
	I-16		81.76		18 inch		87.00	84.56		3.74			
P-27	I-24	25.00	82.24	0.002000	Circular	0.43	86.16	84.77	0.32	2.42	1.36	0.012	2.69
	I-23		82.19		18 inch		86.16	84.76		2.47			
P-30	I-25	28.00	81.50	0.002143	Circular	0.33	85.23	84.71	0.22	2.23	0.92	0.012	3.65
	I-26		81.44		18 inch		85.23	84.70		2.29			
P-31	I-26	81.00	81.44	0.001975	Circular	0.54	85.23	84.65	0.62	2.29	2.60	0.012	0.47
	J-4		81.28		18 inch		85.73	84.52		2.95			
P-34	I-27	93.00	81.07	0.002043	Circular	0.24	86.05	84.44	0.76	2.98	1.69	0.012	5.77

Scenario: Base

DOT Report

Label	-Node- Up. Dn.	L (ft)	-Invert- Up. Dn. (ft)	S (ft/ft)	Section Shape Size	Up. Inlet Area (acres)	-Ground- Up. Dn. (ft)	-HGL- Up. Dn. (ft)	Up. Calc. Sys. CA (acres)	-Cover- Up. Dn. (ft)	Avg. v (ft/s)	Mannings n	Excess Full Cap. (cfs)
P-35	I-17	27.00	80.88	0.007778	24 inch	0.46	86.50	84.40	0.30	3.62	1.81	0.012	3.95
	I-28		81.38		Circular		85.88	84.03		3.25			
	I-29		81.17		15 inch		85.88	84.00		3.46			
P-36	I-29	104.00	81.17	0.007500	Circular	0.59	85.88	83.84	0.74	3.46	4.48	0.012	0.56
	J-5		80.39		15 inch		86.55	83.20		4.91			
P-39	I-30	29.00	79.41	0.007241	Circular	0.25	87.12	82.44	0.93	6.21	3.79	0.012	2.99
	I-31		79.20		18 inch		87.12	82.34		6.42			
P-40	I-31	101.00	79.20	0.007426	Circular	0.23	87.12	82.19	1.10	6.42	4.48	0.012	1.89
	I-32		78.45		18 inch		87.37	81.70		7.42			
P-41	I-32	36.00	78.45	0.009722	Circular	0.03	87.37	81.54	1.12	7.42	4.49	0.012	3.29
	I-33		78.10		18 inch		86.00	81.36		6.40			
P-42	I-33	18.00	78.10	0.061111	Circular	0.69	86.00	81.09	1.50	6.40	5.99	0.012	17.54
	O-3		77.00		18 inch		87.00	80.93		8.50			
P-3	J-1	129.00	88.47	0.029922	Circular	0.30	94.03	89.01	0.25	4.31	7.14	0.012	10.25
	I-3		84.61		15 inch		92.66	85.41		6.80			
P-15	J-2	71.00	82.34	0.002676	Circular	N/A	87.43	85.07	0.56	3.59	2.34	0.012	1.74
	I-14		82.15		18 inch		87.00	84.97		3.35			
P-23	J-3	105.00	78.96	0.014381	Circular	N/A	88.75	82.17	2.68	7.79	5.67	0.012	11.57
	I-20		77.45		24 inch		88.70	81.61		9.25			
P-33	J-4	109.00	81.28	0.001927	Circular	N/A	85.73	84.50	0.62	2.45	1.44	0.012	6.23
	I-27		81.07		24 inch		86.05	84.46		2.98			
P-37	J-5	34.00	80.39	0.007647	Circular	N/A	86.55	83.05	0.74	4.91	4.44	0.012	0.67
	J-6		80.13		15 inch		86.74	82.84		5.36			
P-38	J-6	94.00	80.13	0.007660	Circular	N/A	86.74	82.77	0.74	5.11	3.07	0.012	4.53
	I-30		79.41		18 inch		87.12	82.55		6.21			