Puffin Road Commercial

Osceola County, Florida

Section 11

Old Permits

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South Florida Water Management District
Individual Environmental Resource Permit No. 49-108320-P
Date Issued: June 12, 2023

Permittee: Hathaway Development LLC
SLS Investments Of Central Florida LLLP

Project: Hathaway Development Multi-Family St Cloud

Application No. 220917-35991

Location: Osceola County, See Exhibit 1

Your application for an Individual Environmental Resource Permit is approved. This action is taken based on Chapter 373, Part IV, of Florida Statutes (F.S.) and the rules in Chapter 62-330, Florida Administrative Code (F.A.C.). Unless otherwise stated, this permit constitutes certification of compliance with state water quality standards under section 401 of the Clean Water Act, 33 U.S.C. 1341, and a finding of consistency with the Florida Coastal Management Program. Please read this entire agency action thoroughly and understand its contents.

This permit is subject to:

- Not receiving a filed request for a Chapter 120, F.S., administrative hearing.
- The attached General Conditions for Environmental Resource Permits.
- The attached Special Conditions.
- All referenced Exhibits.

All documents are available online through the District's ePermitting site at www.sfwmd.gov/ePermitting.

If you object to these conditions, please refer to the attached "Notice of Rights" which addresses the procedures to be followed if you desire a public hearing or other review of the proposed agency action. Please contact this office if you have any questions concerning this matter. If we do not hear from you in accordance with the "Notice of Rights", we will assume that you concur with the District's action.

The District does not publish notices of action. If you wish to limit the time within which a person may request an administrative hearing regarding this action, you are encouraged to publish, at your own expense, a notice of agency action in the legal advertisement section of a newspaper of general circulation in the county or counties where the activity will occur. Legal requirements and instructions for publishing a notice of agency action, as well as a noticing format that can be used, are available upon request. If you publish a notice of agency action, please send a copy of the affidavit of publication provided by the newspaper to the District's West Palm Beach office for retention in this file.

If you have any questions regarding your permit or need any other information, please call us at 1-800-432-2045 or email epermits@sfwmd.gov.

Gary R. Priest, P.E.
Engineering Section Administrator, Environmental Resource Bureau

Permittees:

Hathaway Development LLC
3300 Northeast Expressway Building 6
Atlanta, GA 30341

SLS Investments Of Central Florida LLLP
2725 13th Street
St Cloud, FL 34769

South Florida Water Management District
Individual Environmental Resource Permit No. 49-108320-P

Date Issued: June 12, 2023	**Expiration Date:** June 12, 2028
Project Name:	Hathaway Development Multi-Family St Cloud
Permittees:	Hathaway Development LLC 3300 Northeast Expressway Building 6 Atlanta, GA 30341 SLS Investments Of Central Florida LLLP 2725 13th Street St Cloud, FL 34769
Operating Entity:	Hathaway Development LLC 3300 Northeast Expressway Building 6 Atlanta, GA 30341 SLS Investments Of Central Florida LLLP 2725 13th Street St Cloud, FL 34769
Location:	Osceola County
Permit Acres:	25.81 acres
Project Land Use:	Residential-Rentals
Special Drainage District:	N/A
Water Body Classification:	CLASS III CLASS III CLASS III
FDEP Water Body ID:	3176B 3174F 3172C
Wetland and Surface Water Impacts:	0.98 acres
Conservation Easement to District:	No
Sovereign Submerged Lands:	No

Project Summary

This Environmental Resource Permit (ERP) authorizes Construction and Operation of a stormwater management (SWM) system serving 25.81 acres of residential development known as Hathaway Development Multi-Family St Cloud.

The project proposes the construction of 12 apartment buildings, a clubhouse, dog park, associated parking and roadways. The SWM system consists of a wet and dry pond to convey and collect runoff.

Issuance of this permit constitutes certification of compliance with state water quality standards in accordance with Rule 62-330.062, F.A.C.

Site Description
The site is a pine tree farm with a reservoir pond. It is located north of Highway 192, east of Narcoossee Road, west of Nora Tyson Road and south of Gold Crest Drive. Refer to Exhibit 1.0 for a location map.

For information on wetland and other surface water (OSW) impacts, please see the Wetlands and OSWs section of this permit.

Ownership, Operation and Maintenance
Perpetual operation and maintenance of the SWM system will be the responsibility of SLS Investments Of Central Florida, LLLP and Hathaway Development LLC. Upon conveyance or division of ownership or control of the property or the system, the permittee must notify the Agency in writing within 30 days, and the new owner must request transfer of the permit.

The project area is currently under the sole ownership of the permittee, who has indicated that the perpetual operating entity for this project will be the owner. If the subject property is subdivided in the future, or upon future phases of construction on the subject site, an operating entity that meets the criteria of Section 12.3, A.H. Vol I will be required and easements for drainage and discharge must be established.

Engineering Evaluation:

Land Use
Please refer to the Engineering Evaluation Tables for land use details.

Water Quality
The project is located within a watershed identified by the Florida Department of Environmental Protection as impaired; therefore, the design includes a site-specific pollutant loading analysis and an additional 50% water quality treatment volume above the amounts required pursuant to Section 4.2.1, ERP Applicant's Handbook (AH) Volume (Vol.) II, as reasonable assurances that the projects discharge will not cause or contribute to violations of State water quality standards. The project provides 5.24 ac-ft of water quality treatment.

The project includes implementation of a Turbidity and Erosion Control Plan (Exhibit No. 2.0) as additional reasonable assurance of compliance with water quality criteria during construction.

Water Quantity

Discharge
As found in the Water Quantity Data Table, the SWM design meets the criteria of Section 3.2(a), ERP AH Vol. II based on a pre- vs. post-development analysis.

Parking Lot Design
As found in the Water Quantity Data Table, minimum parking lot elevations have been set at or above the peak design storm elevation.

Road Design
As found in the Water Quantity Data Table, minimum road crown elevations have been set at or above the peak design storm elevation.

Perimeter Berm
As found in the Water Quantity Data Table, minimum perimeter berm elevations have been set at or above the peak design storm elevation.

Finished Floors
As found in the Water Quantity Data Table, minimum finished floor elevations have been set at or above the peak design storm elevation.

Certification, Operation, and Maintenance
Pursuant to Chapter 62-330.310, F.A.C., Individual Permits will not be converted from the construction phase to the operation phase until construction completion certification of the project is submitted to and accepted by the District. This includes compliance with all permit conditions, except for any long term maintenance and monitoring requirements. It is suggested that the permittee retain the services of an appropriate professional registered in the State of Florida for periodic observation of construction of the project.

For projects permitted with an operating entity that is different from the permittee, it should be noted that until the construction completion certification is accepted by the District and the permit is transferred to an acceptable operating entity pursuant to Sections 12.1 - 12.3, ERP AH Vol. I and Section 62-330.310, F.A.C., the permittee is liable for operation and maintenance in compliance with the terms and conditions of this permit.

In accordance with Section 373.416(2), F.S., unless revoked or abandoned, all SWM systems and works permitted under Part IV of Chapter 373, F.S., must be operated and maintained in perpetuity.

The efficiency of SWM systems, dams, impoundments, and most other project components will decrease over time without periodic maintenance. The operation and maintenance entity must perform periodic inspections to identify if there are any deficiencies in structural integrity, degradation due to insufficient maintenance, or improper operation of projects that may endanger public health, safety, or welfare, or the water resources. If deficiencies are found, the operation and maintenance entity is responsible for correcting the deficiencies in a timely manner to prevent compromises to flood protection and water quality. See Section 12.4, ERP AH Vol. I for Minimum Operation and Maintenance Standards.

Notable project components requiring routine inspection and maintenance may include but are not limited to:

- Side slopes for stormwater lakes and ponds – maintain side slopes no steeper than 4:1 (horizontal:vertical) to a depth of 2.0 feet below the control elevation and nurtured or planted from 2.0 feet below to 1.0 feet above the control elevation pursuant to Section 5.4.2, ERP AH Vol. II.

- Conveyance pipes, conveyance structures and discharge structures – all pipes and structures must be inspected for structural integrity and be maintained clear of trash, sediment and vegetative debris.

- Exfiltration trenches – all pipes and structures must be inspected for structural integrity and be maintained clear of trash, sediment and vegetative debris.

- Swales – maintain the permitted cross-section and vegetative cover.

- Underground storage facilities – all facilities must be inspected for structural integrity and be maintained clear of trash, sediment and vegetative debris.

- Pumps – float switches should be inspected and any obstructions removed to ensure proper operation; intake and discharge pipes should be maintained clear of trash, sediment and vegetative debris; motors should be maintained to ensure proper operation.

Engineering Evaluation Tables:

Land Use

Basin	Land Type	Area (ac)	% of Total Basin
Site	Building Coverage	2.77	10.73
	Dry Retention Areas	0.53	2.05
	Wet Detention	2.01	7.79
	Pervious	11.49	44.52
	Impervious	9.01	34.91
	Wetland	0.00	0.00
	Total:	25.81	100%

Water Quality

Basin	Treatment Type	Treatment System	Volume Required (ac-ft)	Volume Provided (ac-ft)	Area (ac)
Site	Treatment	WET DETENTION	5.18	5.24	2.01

Water Quantity

Basin	Elevation Type	Storm Event (Yr/Day)	Precipitation Depth (in)	Peak Stage (ft NAVD88)	Min. EL (ft NAVD88)	Peak Discharge Rate (cfs)	Allowable Discharge Rate (cfs)
Site	Finished Floor	100Y3D	12.00	75.90	77.50	N/A	N/A
	Perimeter Berm/ Discharge	10YR3D	8.00	74.71	76.10	26.85	27.53
	Parking Lot	10YR1D	6.00	74.20	74.80	N/A	N/A

Weir

Basin	Control EL (ft NAVD88)	Structure #	Structure Type	Count	Type	Dia (in)	Width (in)	Height (in)	Crest EL (ft NAVD88)
Site	72.00	CS-A	Discharge	1	Rectangular		50.40	7.80	74.00
				1	Circular Orifice	6.00	n/a	n/a	72.00

Environmental Evaluation:

Wetlands and OSWs
The project site contains one 0.98-acre other surface water (OSW). Please see Exhibit No. 3.0 for location. The OSW can generally be described as an upland cut, reservoir pond used to support the adjacent tree pine farm. Additional wetland descriptions are available in the ePermitting file.

The project will result in 0.98 acres of direct impacts as described in the table below. There are no secondary impacts. Exhibit No. 3.0 identifies the locations of the OSW being impacted. No mitigation is required pursuant to Section 10.2.2.2 ERP AH Vol I, as the pond was upland cut and is less than one acre in size.

Fish, Wildlife, and Listed Species
No aquatic or wetland-dependent listed species or species having special protection were observed to be using the uplands within the project for nesting or denning. The project site does not contain significant habitat for wetland-dependent endangered or threatened wildlife species, or species of special concern. No wetland-dependent endangered or threatened species or species of special concern were observed onsite. Submitted information indicates that potential use of the site by such species is minimal.

This permit does not relieve the permittee from complying with all applicable rules and any other agencies' requirements if, in the future, endangered or threatened species or species of special concern are discovered on the site.

Environmental Evaluation Tables:

Summary

Wetlands and Other Surface Waters:	0.98	acres
Direct Impacts:	0.98	acres
Secondary impacts:	0	acres
Net UMAM Functional Loss/ Gain:	0	units
Total Onsite Mitigation Area:	0	acres
Total Offsite Mitigation Area:	0	acres
Mitigation Provided in Permit No.:		

Activities in Wetlands or Other Surface Waters, Not Including Mitigation at a Bank

ID	Acres	Action	Community Description	Current Score	With Project Score	UMAM Loss
SW 1	0.98	Direct Impact	Ponds	0	0	0.000
Total:	**0.98**					**0.000**

Related Concerns:

Water Use Permit Status
The permittee has indicated that public water supply will be used as a source for irrigation water for the project. The permittee has indicated that dewatering is required for construction of this project. A water use permit will be required, unless the permittee demonstrates that proposed dewatering qualifies for the permit by rule under Rule 40E-2.061, F.A.C. (see Special Condition No. 9).

This permit does not release the permittee from obtaining all necessary Water Use authorization(s) prior to the commencement of activities which will require such authorization, including construction dewatering and irrigation.

Water and Wastewater Service
City of St. Cloud Utilities

Historical/ Archaeological Resources
On October 14, 2022, the District received a letter from the Florida Department of State, Division of Historical Resources requesting the applicant to perform a systematic, professional archaeological and historical survey. The applicant has arranged to perform the requested archaeological and historical survey for the property prior to construction (see Special Condition No. 10).

This permit does not release the permittee from complying with any other agencies requirements in the event that historical and/or archaeological resources are found on the site.

General Conditions for Individual Environmental Resource Permits, 62-330.350, F.A.C.

1. All activities shall be implemented following the plans, specifications and performance criteria approved by this permit. Any deviations must be authorized in a permit modification in accordance with rule 62-330.315, F.A.C. Any deviations that are not so authorized may subject the permittee to enforcement action and revocation of the permit under Chapter 373, F.S.

2. A complete copy of this permit shall be kept at the work site of the permitted activity during the construction phase, and shall be available for review at the work site upon request by the Agency staff. The permittee shall require the contractor to review the complete permit prior to beginning construction.

3. Activities shall be conducted in a manner that does not cause or contribute to violations of state water quality standards. Performance-based erosion and sediment control best management practices shall be installed immediately prior to, and be maintained during and after construction as needed, to prevent adverse impacts to the water resources and adjacent lands. Such practices shall be in accordance with the State of Florida Erosion and Sediment Control Designer and Reviewer Manual (Florida Department of Environmental Protection and Florida Department of Transportation, June 2007), and the Florida Stormwater Erosion and Sedimentation Control Inspector's Manual (Florida Department of Environmental Protection, Nonpoint Source Management Section, Tallahassee, Florida, July 2008), which are both incorporated by reference in subparagraph 62-330.050(9)(b)5., F.A.C., unless a project-specific erosion and sediment control plan is approved or other water quality control measures are required as part of the permit.

4. At least 48 hours prior to beginning the authorized activities, the permittee shall submit to the Agency a fully executed Form 62-330.350(1), "Construction Commencement Notice," (October 1, 2013), (http://www.flrules.org/Gateway/reference.asp?No=Ref-02505), incorporated by reference herein, indicating the expected start and completion dates. A copy of this form may be obtained from the Agency, as described in subsection 62-330.010(5), F.A.C., and shall be submitted electronically or by mail to the Agency. However, for activities involving more than one acre of construction that also require a NPDES stormwater construction general permit, submittal of the Notice of Intent to Use Generic Permit for Stormwater Discharge from Large and Small Construction Activities, DEP Form 62-621.300(4)(b), shall also serve as notice of commencement of construction under this chapter and, in such a case, submittal of Form 62-330.350(1) is not required.

5. Unless the permit is transferred under rule 62-330.340, F.A.C., or transferred to an operating entity under rule 62-330.310, F.A.C., the permittee is liable to comply with the plans, terms, and conditions of the permit for the life of the project or activity.

6. Within 30 days after completing construction of the entire project, or any independent portion of the project, the permittee shall provide the following to the Agency, as applicable:
   a. For an individual, private single-family residential dwelling unit, duplex, triplex, or quadruplex- "Construction Completion and Inspection Certification for Activities Associated With a Private Single-Family Dwelling Unit"[Form 62-330.310(3)]; or
   b. For all other activities- "As-Built Certification and Request for Conversion to Operational Phase" [Form 62-330.310(1)].
   c. If available, an Agency website that fulfills this certification requirement may be used in lieu of the form.

7. If the final operation and maintenance entity is a third party:
   a. Prior to sales of any lot or unit served by the activity and within one year of permit issuance, or within 30 days of as-built certification, whichever comes first, the permittee shall submit, as applicable, a copy of the operation and maintenance documents (see sections 12.3 thru 12.3.4 of Volume I) as filed with the Florida Department of State, Division of Corporations, and a copy of any easement, plat, or deed restriction needed to operate or maintain the project, as recorded with the Clerk of the Court in the

County in which the activity is located.
b. Within 30 days of submittal of the as-built certification, the permittee shall submit “Request for Transfer of Environmental Resource Permit to the Perpetual Operation and Maintenance Entity” [Form 62-330.310(2)] to transfer the permit to the operation and maintenance entity, along with the documentation requested in the form. If available, an Agency website that fulfills this transfer requirement may be used in lieu of the form.

8. The permittee shall notify the Agency in writing of changes required by any other regulatory agency that require changes to the permitted activity, and any required modification of this permit must be obtained prior to implementing the changes.

9. This permit does not:
   a. Convey to the permittee any property rights or privileges, or any other rights or privileges other than those specified herein or in Chapter 62-330, F.A.C.;
   b. Convey to the permittee or create in the permittee any interest in real property;
   c. Relieve the permittee from the need to obtain and comply with any other required federal, state, and local authorization, law, rule, or ordinance; or
   d. Authorize any entrance upon or work on property that is not owned, held in easement, or controlled by the permittee.

10. Prior to conducting any activities on state-owned submerged lands or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund, the permittee must receive all necessary approvals and authorizations under Chapters 253 and 258, F.S. Written authorization that requires formal execution by the Board of Trustees of the Internal Improvement Trust Fund shall not be considered received until it has been fully executed.

11. The permittee shall hold and save the Agency harmless from any and all damages, claims, or liabilities that may arise by reason of the construction, alteration, operation, maintenance, removal, abandonment or use of any project authorized by the permit.

12. The permittee shall notify the Agency in writing:
    a. Immediately if any previously submitted information is discovered to be inaccurate; and
    b. Within 30 days of any conveyance or division of ownership or control of the property or the system, other than conveyance via a long-term lease, and the new owner shall request transfer of the permit in accordance with Rule 62-330.340, F.A.C. This does not apply to the sale of lots or units in residential or commercial subdivisions or condominiums where the stormwater management system has been completed and converted to the operation phase.

13. Upon reasonable notice to the permittee, Agency staff with proper identification shall have permission to enter, inspect, sample and test the project or activities to ensure conformity with the plans and specifications authorized in the permit.

14. If prehistoric or historic artifacts, such as pottery or ceramics, projectile points, stone tools, dugout canoes, metal implements, historic building materials, or any other physical remains that could be associated with Native American, early European, or American settlement are encountered at any time within the project site area, the permitted project shall cease all activities involving subsurface disturbance in the vicinity of the discovery. The permittee or other designee shall contact the Florida Department of State, Division of Historical Resources, Compliance Review Section (DHR), at (850)245-6333, as well as the appropriate permitting agency office. Project activities shall not resume without verbal or written authorization from the Division of Historical Resources. If unmarked human remains are encountered, all work shall stop immediately and the proper authorities notified in accordance with section 872.05, F.S. For project activities subject to prior consultation with the DHR and as an alternative to the above requirements, the permittee may follow procedures for unanticipated discoveries as set forth within a cultural resources assessment survey determined complete and sufficient by DHR and included as a specific permit condition herein.

15. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under Rule 62-330.201, F.A.C., provides otherwise.

16. The permittee shall provide routine maintenance of all components of the stormwater management system to remove trapped sediments and debris. Removed materials shall be disposed of in a landfill or other uplands in a manner that does not require a permit under Chapter 62-330, F.A.C., or cause violations of state water quality standards.

17. This permit is issued based on the applicant's submitted information that reasonably demonstrates that adverse water resource-related impacts will not be caused by the completed permit activity. If any adverse impacts result, the Agency will require the permittee to eliminate the cause, obtain any necessary permit modification, and take any necessary corrective actions to resolve the adverse impacts.

18. A Recorded Notice of Environmental Resource Permit may be recorded in the county public records in accordance with Rule 62-330.090(7), F.A.C. Such notice is not an encumbrance upon the property.

Special Conditions for Individual Environmental Resource Permits, 62-330.350, F.A.C.

1. The construction authorization for this permit shall expire on the date shown on page 2.

2. Operation and maintenance of the SWM system shall be the responsibility of SLS Investments Of Central Florida, LLLP and Hathaway Development LLC. The permittee shall notify the Agency in writing within 30 days of any conveyance or division of ownership or control of the property of the system, and the new owner must request transfer of the permit in accordance with Rule 62-330.340, F.A.C.

3. Minimum parking lot elevation: Feet NGVD.

4. Lake side slopes shall be no steeper than 4:1 (horizontal:vertical) to a depth of 2.0 feet below the control elevation. Side slopes shall be nurtured or planted from 2.0 feet below to 1.0 feet above control elevation to insure vegetative growth.

5. A stable, permanent and accessible elevation reference shall be established on or within 100 feet of all permitted discharge structures no later than the submission of the certification report. The location of the elevation reference must be noted on or with the certification report.

6. Prior to any future construction, the permittee shall apply for and receive an Individual ERP. As part of the permit application, the applicant for that phase shall provide documentation verifying that the proposed construction is consistent with the design of the master stormwater management system, including the land use and site grading assumptions.

7. Prior to initiating construction activities associated with this ERP, the permittee is required to hold a pre-construction meeting with field representatives, consultants, contractors, District Environmental Resource Bureau (ERB) staff, and any other local government entities as necessary. The purpose of the pre-construction meeting is to discuss construction methods, sequencing, best management practices, identify work areas, staking and roping of preserves where applicable, and to facilitate coordination and assistance amongst relevant parties. To schedule a pre-construction meeting, please contact ERB staff from the Orlando Service Center at (407) 858-6100 or via e-mail at: precon@sfwmd.gov. When sending a request for a pre-construction meeting, please include the application number, permit number, and contact name and phone number.

8. This permit does not authorize the permittee to cause any adverse impact to or “take” of state listed species and other regulated species of fish and wildlife. Compliance with state laws regulating the take of fish and wildlife is the responsibility of the owner or permitee associated with this project. Please refer to Chapter 68A-27, F.A.C. for definitions of “take” and a list of fish and wildlife species. If listed species are observed onsite, FWC staff are available to provide decision support information or assist in obtaining the appropriate FWC permits. Most marine endangered and threatened species are statutorily protected and a “take” permit cannot be issued. Requests for further information or review can be sent to: FWCConservationPlanningServices@MyFWC.com.

9. Prior to commencement of construction, a Consumptive Use permit for dewatering shall be obtained or demonstration that the work qualifies for the permit by rule under Rule 40E-2.061, F.A.C. shall be provided.

10. Prior to the construction start date, the permittee shall conduct an archaeological survey on the site in accordance with the guidelines from the Florida Department of State, Division of Historical Resources. A report shall be compiled summarizing the results of the survey and be submitted to the Division for

review and approval. The permittee shall submit a letter of no objection from the Division prior to the District taking final agency action on any construction permits in the undeveloped portions of this project. Failure to provide a letter of no objection from the Division will result in the delay of the construction start and/or enforcment by the District.

Project Work Schedule for Permit No. 49-108320-P

The following activities are requirements of this Permit and shall be completed in accordance with the Project Work Schedule below. Please refer to General Conditions, Special Conditions and/or Specific Conditions for more information. Any deviation from these time frames will require prior approval from the District's Environmental Resources Bureau and may require a modification to this permit. Such requests must be made in writing and shall include: (1) reason for the change, (2) proposed start/finish and/or completion dates, and (3) progress report on the status of the project.

Condition No.	Date Added	Description (Application Number)	Due Date	Date Satisfied
GC 4	06/12/2023	Construction Commencement Notice	Prior to Construction	
GC 6	06/12/2023	Submit Certification	30 Days After Construction Completion	
GC 7	06/12/2023	Submit Operation Transfer Request	Within 30 days of Certification	
SC 7	06/12/2023	Pre-Construction Meeting	Prior to Construction	
SC 9	06/12/2023	Obtain a Water Use Permit for Dewatering	Prior to Construction	
SC 10	06/12/2023	Submit CRAS survey and DHR no objection letter.	Prior to Construction	

GC = General Condition

SC = Special Condition

Distribution List

Craig Zetwo, Hanson Walter & Associates

Div of Recreation and Park - District 3

Osceola County Engineer

Exhibits

The following exhibits to this permit are incorporated by reference. The exhibits can be viewed by clicking on the links below or by visiting the District's ePermitting website at http://my.sfwmd.gov/ePermitting and searching under this application number 220917-35991.

Exhibit No. 1.0 Location Map

Exhibit No. 2.0 SWM Plans

Exhibit No. 2.1 Calculations

NOTICE OF RIGHTS

As required by Chapter 120, Florida Statutes, the following provides notice of the opportunities which may be available for administrative hearing pursuant to Sections 120.569 and 120.57, Florida Statutes, or judicial review pursuant to Section 120.68, Florida Statutes, when the substantial interests of a party are determined by an agency. Please note that this Notice of Rights is not intended to provide legal advice. Some of the legal proceedings detailed below may not be applicable or appropriate for your situation. You may wish to consult an attorney regarding your legal rights.

RIGHT TO REQUEST ADMINISTRATIVE HEARING

A person whose substantial interests are or may be affected by the South Florida Water Management District's (District) action has the right to request an administrative hearing on that action pursuant to Sections 120.569 and 120.57, Florida Statutes. Persons seeking a hearing on a District decision which affects or may affect their substantial interests shall file a petition for hearing in accordance with the filing instructions set forth herein within 21 days of receipt of written notice of the decision unless one of the following shorter time periods apply: (1) within 14 days of the notice of consolidated intent to grant or deny concurrently reviewed applications for environmental resource permits and use of sovereign submerged lands pursuant to Section 373.427, Florida Statutes; or (2) within 14 days of service of an Administrative Order pursuant to Section 373.119(1), Florida Statutes. "Receipt of written notice of agency decision" means receipt of written notice through mail, electronic mail, posting, or publication that the District has taken or intends to take final agency action. Any person who receives written notice of a District decision and fails to file a written request for hearing within the timeframe described above waives the right to request a hearing on that decision.

If the District takes final agency action that materially differs from the noticed intended agency decision, persons who may be substantially affected shall, unless otherwise provided by law, have an additional point of entry pursuant to Rule 28-106.111, Florida Administrative Code.

Any person to whom an emergency order is directed pursuant to Section 373.119(2), Florida Statutes, shall comply therewith immediately, but on petition to the board shall be afforded a hearing as soon as possible.

A person may file a request for an extension of time for filing a petition. The District may grant the request for good cause. Requests for extension of time must be filed with the District prior to the deadline for filing a petition for hearing. Such requests for extension shall contain a certificate that the moving party has consulted with all other parties concerning the extension and whether the District and any other parties agree to or oppose the extension. A timely request for an extension of time shall toll the running of the time period for filing a petition until the request is acted upon.

FILING INSTRUCTIONS

A petition for administrative hearing must be filed with the Office of the District Clerk. Filings with the Office of the District Clerk may be made by mail, hand-delivery, or e-mail. Filings by facsimile will not be accepted. A petition for administrative hearing or other document is deemed filed upon receipt during normal business hours by the Office of the District Clerk at the District's headquarters in West Palm Beach, Florida. The District's normal business hours are 8:00 a.m. – 5:00 p.m., excluding weekends and District holidays. Any document received by the Office of the District Clerk after 5:00 p.m. shall be deemed filed as of 8:00 a.m. on the next regular business day.

Additional filing instructions are as follows:

- Filings by mail must be addressed to the Office of the District Clerk, 3301 Gun Club Road, West Palm Beach, Florida 33406.

- Filings by hand-delivery must be delivered to the Office of the District Clerk. Delivery of a petition to the District's security desk does not constitute filing. It will be necessary to request that the District's security officer contact the Office of the District Clerk. An employee of the District's Clerk's office will receive and process the petition.
- Filings by e-mail must be transmitted to the Office of the District Clerk at clerk@sfwmd.gov. The filing date for a document transmitted by electronic mail shall be the date the Office of the District Clerk receives the complete document.

INITIATION OF ADMINISTRATIVE HEARING

Pursuant to Sections 120.54(5)(b)4. and 120.569(2)(c), Florida Statutes, and Rules 28-106.201 and 28-106.301, Florida Administrative Code, initiation of an administrative hearing shall be made by written petition to the District in legible form and on 8 1/2 by 11 inch white paper. All petitions shall contain:

1. Identification of the action being contested, including the permit number, application number, District file number or any other District identification number, if known.
2. The name, address, any email address, any facsimile number, and telephone number of the petitioner, petitioner's attorney or qualified representative, if any.
3. An explanation of how the petitioner's substantial interests will be affected by the agency determination.
4. A statement of when and how the petitioner received notice of the District's decision.
5. A statement of all disputed issues of material fact. If there are none, the petition must so indicate.
6. A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the District's proposed action.
7. A statement of the specific rules or statutes the petitioner contends require reversal or modification of the District's proposed action.
8. If disputed issues of material fact exist, the statement must also include an explanation of how the alleged facts relate to the specific rules or statutes.
9. A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the District to take with respect to the District's proposed action.

MEDIATION

The procedures for pursuing mediation are set forth in Section 120.573, Florida Statutes, and Rules 28-106.111 and 28-106.401–.405, Florida Administrative Code. The District is not proposing mediation for this agency action under Section 120.573, Florida Statutes, at this time.

RIGHT TO SEEK JUDICIAL REVIEW

Pursuant to Section 120.68, Florida Statutes, and in accordance with Florida Rule of Appellate Procedure 9.110, a party who is adversely affected by final District action may seek judicial review of the District's final decision by filing a notice of appeal with the Office of the District Clerk in accordance with the filing instructions set forth herein within 30 days of rendition of the order to be reviewed, and by filing a copy of the notice with the appropriate district court of appeals via the Florida Courts E-Filing Portal.

Revised SFWMD Drainage Report

For

HATHAWAY MULTI FAMILY DEVELOPMENT

Osceola County, Florida
April,2023

Prepared by:
Hanson, Walter & Associates, Inc.
104 Broadway, Suite 104
Kissimmee, FL 34741
(407) 847-9433

Digitally signed by Craig J Zetwo
Date: 2023.04.24 10:12:45 -04'00'

Craig Zetwo, P.E.
FL Registration No. 61896
Date:

*Elevations in this report are based on NAVD' 88 Datum

Appendix

Appendix No.

1 Project Summary

2 Post-Development Drainage Analysis

3 Phosphorus Loading Calculation

4 Recovery Analysis

Prepared by:
Hanson, Walter & Associates, Inc.
104 Broadway, Suite 104
Kissimmee, FL 34741
(407) 847-9433

HATHAWAY MULTI FAMILY DEVELOPMENT

Osceola County, Florida

Appendix No. 1

Project Summary

HATHAWAY MULTI FAMILY DEVELOPMENT

Prepared by:
Hanson, Walter & Associates, Inc.
104 Broadway, Suite 104
Kissimmee, FL 34741
(407) 847-9433

1.0 OVERVIEW:

LOCATION: SAINT CLOUD, S05/ T26 / R31
OWNER: JOLENE SHEIVE
ENGINEER: HANSON WALTER AND ASSOCIATES, INC.
PROJECT AREA: 25.81 AC

2.0 PROJECT SITE DESCRIPTION:

The project site is approximately 25.81 acres. The address for the subject parcel, based on Property Appraisers information, is E IRLO BRONSON MEM HWY, Saint Cloud FL 34771. This project is located approximately North-West of E Irlo Bronson Mem HWY and Puffin Road intersection. Please refer to the location map within the appendix. The Parcel ID number is 05-26-31-00U0-0060-0000. The warranty deeds are included in the appendix of this report.

3.0 PROPOSED PROJECT:

For access to the construction site, Puffin Road will be used. The proposed development includes 1 wet detention pond which have 2.01 acres and 1 dry retention pond which have 0.53 acres. Drainage will be routed to the ponds located onsite through the proposed grading operations. The project area included 9.01 acres of impervious area with 2.77 acres of building roof area.

Potable water, sewer and reuse water will be provided to the site by City of Saint Cloud.

All the project area is located within Zone "X" indicated on the National Flood Insurance Rate Map, No. 12097C0280G. Please refer to the enclosed FEMA FIRM exhibit in the appendix.

To clarify, the necessary drainage analysis shall be calculated using the SCS Unit Hydrograph method with the SCS Type II (mod.) and SFWMD72 rainfall distributions. The peaking factor of 256 was used for all design storms. The following design storms and rainfall depths were used in the analysis:

Design Storm	Total Rainfall	Design Criteria
100yr-72hr	P = 12.0"	Min. FF Elevation
10yr-72hr	P = 8.0"	Basin Peak Discharge
10yr-24hr	P = 6.0"	Min. Road Elevation

The following are summary tables of the proposed site and water management system based upon the Advanced Interconnected Channel and Pond Routing (ICPR Version 4) model for the proposed development.

Summary Table 1.1: Pre-Development Land Use

Land Use	Area (square feet)	Area (acre)	Percent
Building	0	0	0
Pond	0	0	0
Pervious (Woods)	1,124,473	25.81	100
Impervious	0	0	0
Wetlands	0	0	0
Total Area	**1,124,473**	**25.81**	**100**

Summary Table 1.2: Post-Development Land Use

Land Use	Area (square feet)	Area (acre)	Percent
Building	120,496	2.77	10.72
Dry Retention Pond	23087	0.53	2.05
Wet Detention Pond	87,626	2.01	7.80
Pervious	500733	11.49	44.52
Impervious	392,531	9.01	34.91
Wetlands	0	0.00	0
Total Area	**1,124,473**	**25.81**	**100.0**

Summary Table 2:

Storm Event	Rainfall Amount (inch)	Pre Development Peak Discharge (cfs)	Post Development Peak Discharge (cfs)	Pond A Peak Stage (ft)	Flood Stage (ft)
10 Year 24 Hour	6.0	23.43	23.19	74.20	74.80 Parking Lot
10 Year 72 Hour	8.0	27.53	26.85	74.71	76.10 Min. Pond Berm
100 Year 72 Hour	12.0	63.68	58.26	75.89	77.50 Min. Finish Floor

Summary Table 3: (For CS-A)

Proposed Pond	Control Elevation	Top of Bank	Pond Area
Pond A	72.00-ft	76.10-ft	2.01-ac

Control Structure Summary – **CS-A (Type-E Inlet)**

	Dimension	Elevation
Orifice (circular)	6" Diameter	72.00-ft
Weir	7.8" H x 50.40" W	74.00-ft

Grate	54"H x 36" W	74.65-ft

HATHAWAY MULTI FAMILY DEVELOPMENT

Osceola County, Florida

Appendix No. 2

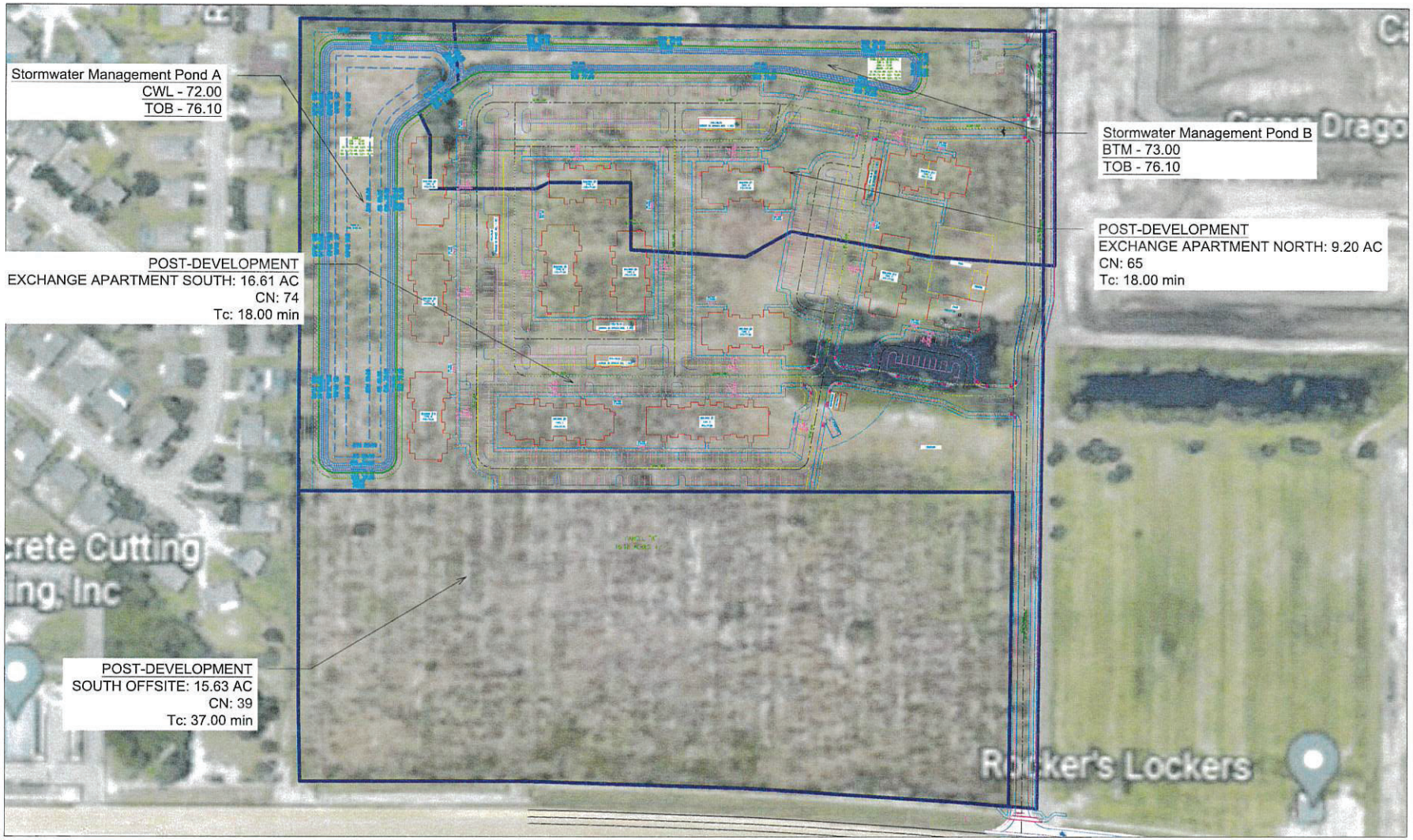
Post-Development Drainage Analysis

HATHAWAY MULTI FAMILY DEVELOPMENT

Prepared by:
Hanson, Walter & Associates, Inc.
104 Broadway, Suite 104
Kissimmee, FL 34741
(407) 847-9433

Exhibit 2.1

Permit No. 49-108320-P



DESIGN — FB NO —
DRAWN — PAGE —
CHECKED — SCALE AS SHOWN
QA/QC (see stamp) DATE 12/15/22
SEC ##
TWP ####
RANGE ####
DATE BY REVISIONS

8 BROADWAY, SUITE 104, KISSIMMEE, FLORIDA 34741-5788
PHONE: (407) 847-9833
ENGINEERING FAX: (321) 442-1045 SURVEY FAX: (407) 847-2499
ENG. CERT OF AUTHOR No. 3265 SUR. CERT OF AUTHOR No. 3278
ENGINEERING, SURVEYING AND PLANNING
Hanson, Walter & Associates, Inc.

HATHAWAY MULTI FAMILY DEVELOPMENT

POST-DEVELOPMENT BASIN MAP

SHEET NO 47 of 47
JOB NO 5450

SUPPORT CALCULATIONS

Job Name: HATHAWAY MULTI FAMILY DEVELOPMENT — Prepared By: TB
HWA Job Number: 5450 — Checked By: TB
Development (Bold one): Pre **Post**
Basin Name: EXCHANGE APARTMENT (NORTH) — Outfall: Pond B (DRY)

BASIN INFORMATION

Land Use	Area (ac)		Area (sf)		Percent (%)
Building Roof Area	0.80	or	34,848	or	8.7
Dry Pond	0.53	or	23,087	or	5.76
Pervious	4.63	or	201,683	or	50.33
Impervious	3.24	or	141,134	or	35.22
Wetlands	0.00	or	0	or	0
TOTAL	9.20		400,752		100.0

CURVE NUMBER

Land Use Description	Soil Group	CN	Area (acre)	CNxAren
Impervious (Pavement & Sidewalk)	A	98	3.24	317.52
Impervious (Building)	A	98	0.80	78.40
Pervious (Open Space)	A	39	4.63	180.57
Wetland	A	98	0.00	0.00
Water Mannanagement (dry)	A	39	0.53	20.67
		TOTAL	9.20	597.16

CN (weighted) = Total Product / Total Area = 64.9 — USE => **65**

TIME OF CONCENTRATION

Sheet Flow	
Surface Description:	Grass
Manning's Coefficient (n):	0.13
Flow Length (L):	200
Rainfall (P2):	4.8
Land Slope (ft/ft):	0.010
Tt = (hour)	0.27
Tt = (min)	16.2

Shallow Concentrated	
Surface Description:	Paved
Flow Length (L):	180
Land Slope (ft/ft):	0.007
Average velocity (v):	1.2
Tt = (hour)	0.04
Tt = (min)	2.4

Channel Flow	
Surface Description:	N/A
Cross Sectional Flow Area (A):	0
Wetted Perimeter (P):	0
Hydraulic Radius (Rk):	0.00
Channel Slope (ft/ft):	0
Manning's Coefficient (n):	0
Velocity (ft/sec):	0
Flow Length (ft):	0
Tt = (hour)	0
Tt = (min)	0

For Sheet Flow

Manning's Coefficient	
Surface Description	
Smooth Surface (Concrete, asphalt, gravel, or bare soil)	0.011
Fallow (No Residue)	0.05
Cultivated Soils:	
Residue cover < or = 20%	0.06
Residue cover > 20%	0.17
Grass:	
Short grass prairie	0.15
Dense grass	0.24
Bermuda grass	0.41
Range (Natural)	0.13
Woods:	
Ligt underbrush	0.4
Dense underbrush	0.8

For Shallow Flow

Velocity for unpaved:	0.95
Velocity for paved:	1.2

TOTAL Tc (hour):	0.31
TOTAL Tc (min):	18.6

USE Tc (min): 18.0

RUNOFF VOLUME

- Determine Soil Storage: S

S = (1000 / CN) - 10 = 5.41 inches

- Determine Runoff: R

R = (P - 0.2S)^2 / (P + 0.8S) = 3.48 inches

(where P = 7.5 inch per design storm)

- Determine Runoff Volume: Vr

Vr = R x AREA/12 = **2.67 acre-feet <== Runoff Volume**

SUPPORT CALCULATIONS

Job Name: HATHAWAY MULTI FAMILY DEVELOPMENT — Prepared By: TE
HWA Job Number: 5450 — Checked By: TE
Development (Bold one): Pre **Post**
Basin Name: EXCHANGE APARTMENT (SOUTH) — Outfall: Pond A (WET)

BASIN INFORMATION

Land Use	Area (ac)		Area (sf)		Percent (%)
Building Roof Area	1.97	or	85,813	or	11.86
Wet Detention Pond	2.01	or	87,626	or	12.11
Pervious	6.86	or	298,822	or	41.3
Impervious	5.77	or	251,341	or	34.73
Wetlands	0.00	or	0	or	0
TOTAL	16.61		723,602		100.0

CURVE NUMBER

Land Use Description	Soil Group	CN	Area (acre)	CNxArea
Impervious (Pavement & Sidewalk)	A	98	5.77	565.46
Impervious (Building)	A	98	1.97	193.06
Pervious (Open Space)	A	39	6.86	267.54
Wetland	A	98	0.00	0.00
Water Mananagement (wet)	A	100	2.01	201.16
		TOTAL	16.61	1227.22

CN (weighted) = Total Product / Total Area = 73.9 — USE => **74**

TIME OF CONCENTRATION

Sheet Flow	
Surface Description:	Grass
Manning's Coefficient (n):	0.13
Flow Length (L):	200
Rainfall (P2):	4.8
Land Slope (ft/ft):	0.010
Tt = (hour)	0.27
Tt = (min)	16.2

Shallow Concentrated	
Surface Description:	Paved
Flow Length (L):	180
Land Slope (ft/ft):	0.007
Average velocity (v):	1.2
Tt = (hour)	0.04
Tt = (min)	2.4

Channel Flow	
Surface Description:	N/A
Cross Sectional Flow Area (A):	0
Wetted Perimeter (P):	0
Hydraulic Radius (Rh):	0.00
Channel Slope (ft/ft):	0
Manning's Coefficient (n):	0
Velocity (ft/sec):	0
Flow Length (ft):	0
Tt = (hour)	0
Tt = (min)	0

For Sheet Flow

Manning's Coefficient

Surface Description	
Smooth Surface (Concrete, asphalt, gravel, or bare soil)	0.011
Fallow (No Residue)	0.05
Cultivated Soils:	
Residue cover < or = 20%	0.06
Residue cover > 20%	0.17
Grass:	
Short grass prairie	0.15
Dense grass	0.24
Bermuda grass	0.41
Range (Natural)	0.13
Woods:	
Ligt underbrush	0.4
Dense underbrush	0.8

For Shallow Flow

Velocity for unpaved:	0.95
Velocity for paved:	1.2

TOTAL Tc (hour):	0.31
TOTAL Tc (min):	18.6

USE Tc (min): 18.0

RUNOFF VOLUME

- Determine Soil Storage: S

S = (1000 / CN) - 10 = 3.53 inches

- Determine Runoff: R

R = (P - 0.2S)^2 / (P + 0.8S) = 4.47 inches

(where P = 7.5 inch per design storm)

- Determine Runoff Volume: Vr

Vr = R x AREA/12 = **6.19 acre-feet <== Runoff Volume**

SUPPORT CALCULATIONS

Job Name: HATHAWAY MULTI FAMILY DEVELOPMENT — Prepared By: TB
HWA Job Number: 5450 — Checked By: TB
Development (Bold one): Pre Post
Basin Name: SOUTH OFFSITE — Outfall: Pond A (WET)

BASIN INFORMATION

Land Use	Area (ac)		Area (sf)		Percent (%)
Building Roof Area	0.00	or	0	or	0
Wet Detention Pond	0.00	or	0	or	0
Pervious	15.63	or	680,653	or	100
Impervious	0.00	or	0	or	0
Wetlands	0.00	or	0	or	0
TOTAL	15.63		680,653		100.0

CURVE NUMBER

Land Use Description	Soil Group	CN	Area (acre)	CNxAren
Impervious (Pavement & Sidewalk)	A	98	0.00	0.00
Impervious (Building)	A	98	0.00	0.00
Pervious (Open Space)	A	39	15.63	609.40
Wetland	A	98	0.00	0.00
Water Mananagement (wet)	A	100	0.00	0.00
		TOTAL	15.63	609.40

CN (weighted) = Total Product / Total Area = 39.0 — USE => 39

TIME OF CONCENTRATION

Sheet Flow	
Surface Description:	Grass
Manning's Coefficient (n):	0.15
Flow Length (L):	300
Rainfall (P2):	4.8
Land Slope (ft/ft):	0.006
Tt = (hour)	0.54
Tt = (min)	32.4

Shallow Concentrated	
Surface Description:	Unpaved
Flow Length (L):	250
Land Slope (ft/ft):	0.006
Average velocity (v):	0.95
Tt = (hour)	0.07
Tt = (min)	4.2

Channel Flow	
Surface Description:	N/A
Cross Sectional Flow Area (A):	0
Wetted Perimeter (P):	0
Hydraulic Radius (Rh):	0.00
Channel Slope (ft/ft):	0
Manning's Coefficient (n):	0
Velocity (ft/sec):	0
Flow Length (ft):	0
Tt = (hour)	0
Tt = (min)	0

For Sheet Flow

Manning's Coefficient	
Surface Description	
Smooth Surface (Concrete, asphalt, gravel, or bare soil)	0.011
Fallow (No Residue)	0.05
Cultivated Soils:	
Residue cover < or = 20%	0.06
Residue cover > 20%	0.17
Grass:	
Short grass prairie	0.15
Dense grass	0.24
Bermuda grass	0.41
Range (Natural)	0.13
Woods:	
Ligt underbrush	0.4
Dense underbrush	0.8

For Shallow Flow

Velocity for unpaved:	0.95
Velocity for paved:	1.2

TOTAL Tc (hour):	0.61
TOTAL Tc (min):	36.6

USE Tc (min): 37.0

RUNOFF VOLUME

- Determine Soil Storage: S

S = (1000 / CN) - 10 = 15.64 inches

- Determine Runoff: R

R = (P - 0.2S)^2 / (P + 0.8S) = 0.96 inches

(where P = 7.5 inch per design storm)

- Determine Runoff Volume: Vr

Vr = R x AREA/12 = 1.24 acre-feet <== Runoff Volume

SUPPORT CALCULATIONS

Job Name:	HATHAWAY MULTI FAMILY DEVELOPMENT	Prepared By: TE
HWA Job Number:	5450	Checked By: TE
Development (Bold one):	Pre **Post**	
Basin Name:	POND A (Wet Pond)	

DRY POND STAGE / STORAGE CALCULATIONS

Stage	Area (sf)	Area (ac)	Average Area (ac)	Volume (ac-ft)	Volume (ac-ft)
73.00	23,094	0.53	0.00	0.00	0.00
74.00	30,042	0.69	0.61	0.61	0.61

WET POND STAGE / STORAGE CALCULATIONS

Stage	Area (sf)	Area (ac)	Average Area (ac)	Volume (ac-ft)	Accumulated Volume (ac-ft)
72.00	87,626	2.01	0.00	0.00	0.00
73.00	94,944	2.18	2.10	2.10	2.10
74.00	102,361	2.35	2.26	2.26	4.36
75.00	147,280	3.38	2.87	2.87	7.23
76.10	162,947	3.74	3.56	3.92	11.14

Water Quality

Runoff of 1" over entire site:

RUNOFF VOLUME (1" * Total Area):	41.44 ac-in
RUNOFF VOLUME:	3.45 ac-ft

Runoff of 2.5" over percent impervious:

Effective Area = Total Area - (Pond + Building):	36.13
Impervious Area (Sidewalk, Pavement, Future Paved Parking etc.):	9.01
(%) Percent Impervious = (Impervious Area / Effective Area):	24.94
2.5" * Percent Impervious:	0.62
RUNOFF VOLUME:	24.58 ac-in
RUNOFF VOLUME:	2.05 ac-ft

Required Water Quality for Basin:	**3.45 ac-ft**
SFWMD Request of 150% Times WQ:	**5.18 ac-ft**

Water Quality Required:	**5.18 ac-ft**
Min. Weir Elevation:	**73.98 ft**
Actual Weir Elevation:	**74.00 ft**
Actual Water Quality Provided:	**5.24 ac-ft**

SIZING ORIFICE

Per SFWMD Basis of Review: 1/2" half of detention in 24 hours

Runoff of 1/2" over entire site:

RUNOFF VOLUME (.5" * Total Area):	20.72 ac-in
RUNOFF VOLUME IN 24 HRS:	1.73 ac-ft
OR	
FLOW RATE:	**0.87 cfs**

Existing Weir Elevation:	74.00 ft
Difference b/w Weir & Orifice:	2.00 ft
1/2 distance b/w Weir & Orifice (h):	1.00 ft

For a Circular Orifice:

Q = 0.6A(2gh)^0.5; so		
A = Q / 0.6(2gh)^0.5 =>	0.18 sf	
D = (4A/3.14159)^0.5 =>	0.48 ft	
Orifice Diameter (D):	6 in	
USE =>	6 in	

Post-Development Nodal Diagram

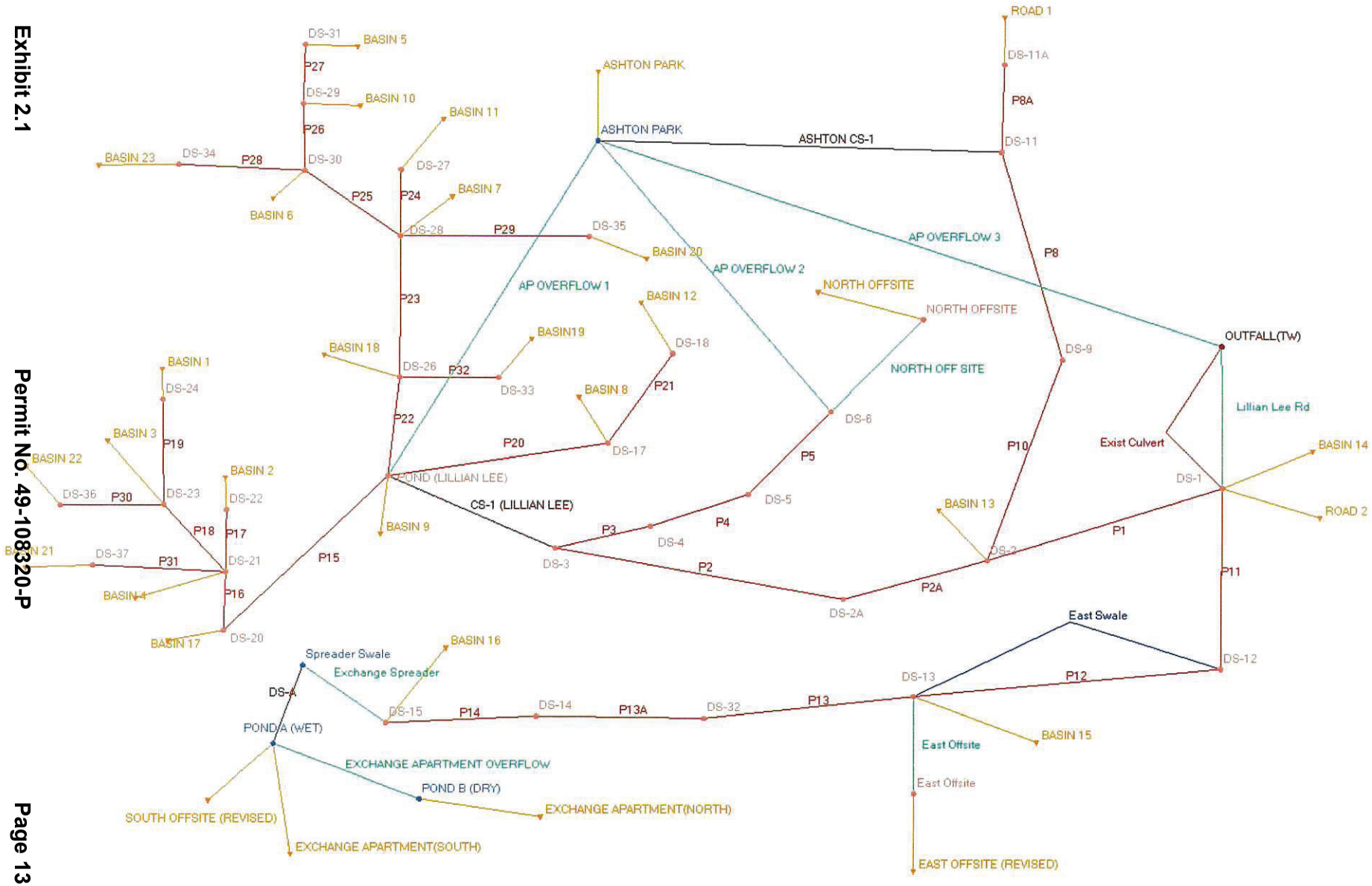


Exhibit 2.1

Permit No. 49-108320-P

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Scenario	Sim	Node Name	Warning Stage [ft]	Maximum Stage [ft]	Maximum Total Inflow Rate [cf	Maximum Total Outflow Rate [cf
post development	10y24h	ASHTON PARK	74.50	72.48	46.39	11.04
post development	10y24h	DS-1	73.00	69.08	23.63	23.19
post development	10y24h	DS-11	70.90	69.52	11.20	11.17
post development	10y24h	DS-11A	71.02	69.52	1.30	1.30
post development	10y24h	DS-12	74.00	69.08	13.19	12.79
post development	10y24h	DS-13	72.00	69.10	15.02	14.55
post development	10y24h	DS-14	74.00	70.00	1.94	1.94
post development	10y24h	DS-15	74.00	70.30	1.94	1.94
post development	10y24h	DS-17	74.00	71.67	4.01	3.95
post development	10y24h	DS-18	74.00	71.67	2.42	2.37
post development	10y24h	DS-2	74.00	69.12	18.22	14.74
post development	10y24h	DS-20	74.00	71.67	12.51	12.45
post development	10y24h	DS-21	74.00	71.75	11.61	11.55
post development	10y24h	DS-22	74.00	71.86	2.83	2.74
post development	10y24h	DS-23	74.00	71.96	6.20	6.14
post development	10y24h	DS-24	74.00	72.05	3.63	3.54
post development	10y24h	DS-26	74.00	71.67	13.84	13.78
post development	10y24h	DS-27	74.00	71.67	1.72	1.65
post development	10y24h	DS-28	74.00	71.67	11.56	11.50
post development	10y24h	DS-29	74.00	71.85	3.99	3.88
post development	10y24h	DS-2A	73.50	69.12	7.05	7.25
post development	10y24h	DS-3	74.00	69.12	5.53	7.05
post development	10y24h	DS-30	74.00	71.74	6.61	6.55
post development	10y24h	DS-31	74.00	72.03	2.10	2.03
post development	10y24h	DS-32	73.00	69.10	4.16	1.94
post development	10y24h	DS-33	74.00	71.67	1.29	1.23
post development	10y24h	DS-34	74.00	71.77	0.57	0.52
post development	10y24h	DS-35	74.00	71.67	0.57	0.51
post development	10y24h	DS-36	74.00	72.00	0.75	0.67
post development	10y24h	DS-37	74.00	71.78	0.75	0.67
post development	10y24h	DS-4	74.00	69.12	4.12	4.52
post development	10y24h	DS-5	74.00	69.13	5.40	4.12
post development	10y24h	DS-6	73.00	69.13	3.41	5.40
post development	10y24h	DS-9	74.00	69.20	11.17	11.30
post development	10y24h	East Offsite	72.00	69.10	14.50	14.47
post development	10y24h	NORTH OFFSITE	72.00	71.03	3.41	3.41
post development	10y24h	OUTFALL(TW)	69.00	64.84	23.19	0.02
post development	10y24h	POND (LILLIAN LEE)	74.00	71.67	37.14	2.04
post development	10y24h	POND A (WET)	75.00	74.20	28.72	1.92

Exhibit 2.1
Permit No. 49-108320-P
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Scenario	Sim	Node Name	Warning Stage [ft]	Maximum Stage [ft]	Maximum Total Inflow Rate [cfs	Maximum Total Outflow Rate [cfs
post development	10y24h	POND B (DRY)	74.00	74.20	11.21	5.54
post development	10y24h	Spreader Swale	74.00	73.54	1.92	1.92

pond A stages (wet)

10-24	74.20

pond B stages (dry)

10-24	74.20

Exhibit 2.1
Permit No. 49-108320-P
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Scenario	Sim	Node Name	Warning Stage [ft]	Maximum Stage [ft]	Maximum Total Inflow Rate [cf	Maximum Total Outflow Rate [cf
post development	10y72h	ASHTON PARK	74.50	73.08	71.14	15.23
post development	10y72h	DS-1	73.00	70.17	28.86	26.85
post development	10y72h	DS-11	70.90	70.84	15.37	15.36
post development	10y72h	DS-11A	71.02	70.84	1.32	1.25
post development	10y72h	DS-12	74.00	70.18	15.55	15.71
post development	10y72h	DS-13	72.00	70.20	16.46	15.55
post development	10y72h	DS-14	74.00	70.83	9.46	9.46
post development	10y72h	DS-15	74.00	71.16	9.46	9.46
post development	10y72h	DS-17	74.00	72.63	4.66	4.60
post development	10y72h	DS-18	74.00	72.63	2.91	2.86
post development	10y72h	DS-2	74.00	70.22	24.04	20.49
post development	10y72h	DS-20	74.00	72.63	15.12	15.07
post development	10y72h	DS-21	74.00	73.52	14.07	14.00
post development	10y72h	DS-22	74.00	73.70	3.40	3.30
post development	10y72h	DS-23	74.00	73.86	7.62	7.55
post development	10y72h	DS-24	74.00	74.00	4.56	4.45
post development	10y72h	DS-26	74.00	72.63	16.25	16.19
post development	10y72h	DS-27	74.00	73.13	1.99	1.92
post development	10y72h	DS-28	74.00	73.07	13.55	13.49
post development	10y72h	DS-29	74.00	73.57	4.64	4.53
post development	10y72h	DS-2A	73.50	70.22	7.96	9.22
post development	10y72h	DS-3	74.00	70.23	7.80	8.20
post development	10y72h	DS-30	74.00	73.42	7.76	7.68
post development	10y72h	DS-31	74.00	73.83	2.49	2.43
post development	10y72h	DS-32	73.00	70.27	9.46	9.46
post development	10y72h	DS-33	74.00	72.63	1.53	1.47
post development	10y72h	DS-34	74.00	73.46	0.72	0.67
post development	10y72h	DS-35	74.00	73.11	0.72	0.65
post development	10y72h	DS-36	74.00	73.92	0.94	0.86
post development	10y72h	DS-37	74.00	73.58	0.94	0.85
post development	10y72h	DS-4	74.00	70.23	4.95	5.14
post development	10y72h	DS-5	74.00	70.23	7.26	4.95
post development	10y72h	DS-6	73.00	70.23	4.69	7.26
post development	10y72h	DS-9	74.00	70.33	15.36	15.42
post development	10y72h	East Offsite	72.00	70.20	23.42	15.67
post development	10y72h	NORTH OFFSITE	72.00	71.04	4.69	4.69
post development	10y72h	OUTFALL(TW)	69.00	65.15	26.85	0.00
post development	10y72h	POND (LILLIAN LEE)	74.00	72.63	43.91	3.03
post development	10y72h	POND A (WET)	75.00	74.71	58.25	9.36

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Scenario	Sim	Node Name	Warning Stage [ft]	Maximum Stage [ft]	Maximum Total Inflow Rate [cfs]	Maximum Total Outflow Rate [cfs]
post development	10y72h	POND B (DRY)	74.00	74.71	17.49	16.37
post development	10y72h	Spreader Swale	74.00	73.63	9.36	9.36

Pond A Stages (wet)

10-72	74.71

Pond B Stages (dry)

10-72	74.71

10-72 post-Development Discharge Rate = 26.85 cfs

10-72 pre-Development Discharge Rate = 27.53 cfs

Exhibit 2.1

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Scenario	Sim	Node Name	Warning Stage [ft]	Maximum Stage [ft]	Maximum Total Inflow Rate [cf	Maximum Total Outflow Rate [cf
post development	100y72h	ASHTON PARK	74.50	74.07	135.71	67.53
post development	100y72h	DS-1	73.00	71.10	58.26	58.26
post development	100y72h	DS-11	70.90	72.66	22.67	22.60
post development	100y72h	DS-11A	71.02	72.66	2.00	1.90
post development	100y72h	DS-12	74.00	71.18	31.77	31.90
post development	100y72h	DS-13	72.00	71.20	48.68	43.19
post development	100y72h	DS-14	74.00	73.53	25.64	25.60
post development	100y72h	DS-15	74.00	74.36	25.67	25.64
post development	100y72h	DS-17	74.00	74.03	7.35	7.27
post development	100y72h	DS-18	74.00	74.37	4.66	4.58
post development	100y72h	DS-2	74.00	71.35	53.45	53.42
post development	100y72h	DS-20	74.00	75.25	23.90	23.82
post development	100y72h	DS-21	74.00	77.56	22.25	22.15
post development	100y72h	DS-22	74.00	78.00	5.44	5.23
post development	100y72h	DS-23	74.00	78.42	12.14	12.01
post development	100y72h	DS-24	74.00	78.78	7.41	7.18
post development	100y72h	DS-26	74.00	73.97	25.42	25.35
post development	100y72h	DS-27	74.00	76.51	3.12	3.00
post development	100y72h	DS-28	74.00	76.36	21.16	21.07
post development	100y72h	DS-29	74.00	77.58	7.24	7.02
post development	100y72h	DS-2A	73.50	71.42	32.62	32.60
post development	100y72h	DS-3	74.00	71.53	32.65	32.62
post development	100y72h	DS-30	74.00	77.22	12.09	11.96
post development	100y72h	DS-31	74.00	78.23	3.95	3.83
post development	100y72h	DS-32	73.00	71.80	25.60	25.57
post development	100y72h	DS-33	74.00	73.98	2.43	2.34
post development	100y72h	DS-34	74.00	77.32	1.18	1.13
post development	100y72h	DS-35	74.00	76.45	1.18	1.08
post development	100y72h	DS-36	74.00	78.57	1.54	1.45
post development	100y72h	DS-37	74.00	77.71	1.54	1.40
post development	100y72h	DS-4	74.00	71.56	16.72	16.61
post development	100y72h	DS-5	74.00	71.62	17.61	16.72
post development	100y72h	DS-6	73.00	71.65	27.16	17.61
post development	100y72h	DS-9	74.00	71.62	22.60	22.54
post development	100y72h	East Offsite	72.00	71.20	74.41	10.07
post development	100y72h	NORTH OFFSITE	72.00	71.65	7.91	14.72
post development	100y72h	OUTFALL(TW)	69.00	65.50	58.26	0.00
post development	100y72h	POND (LILLIAN LEE)	74.00	73.93	68.84	20.00
post development	100y72h	POND A (WET)	75.00	75.89	93.48	25.16

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Scenario	Sim	Node Name	Warning Stage [ft]	Maximum Stage [ft]	Maximum Total Inflow Rate [cfs	Maximum Total Outflow Rate [cfs
post development	100y72h	POND B (DRY)	74.00	75.90	31.22	16.24
post development	100y72h	Spreader Swale	74.00	74.38	25.16	24.97

pond A stages (wet)

100-72	75.89

pond B stages (Dry)

100-72	75.90

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Simple Basin: ASHTON PARK

Scenario:	post development
Node:	ASHTON PARK
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	39.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	47.5600 ac
Curve Number:	44.9
% Impervious:	26.50
% DCIA:	26.50
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 1

Scenario:	post development
Node:	DS-24
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	1.7600 ac
Curve Number:	77.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 10

Scenario:	post development
Node:	DS-29
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	10.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.7100 ac
Curve Number:	84.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 11

Scenario:	post development
Node:	DS-27
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.7100 ac
Curve Number:	83.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 12

Scenario:	post development
Node:	DS-18
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	1.0800 ac
Curve Number:	80.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 13

Scenario:	post development
Node:	DS-2
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	13.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.0700 ac
Curve Number:	76.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 14

Scenario:	post development
Node:	DS-1
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	12.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.0700 ac
Curve Number:	76.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 15

Scenario:	post development
Node:	DS-13
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	28.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.7400 ac
Curve Number:	60.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 16

Scenario:	post development
Node:	DS-15
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	23.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.3800 ac
Curve Number:	62.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 17

Scenario:	post development
Node:	DS-20
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.4100 ac
Curve Number:	82.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 18

Scenario:	post development
Node:	DS-26
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.4700 ac
Curve Number:	82.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 2

Scenario:	post development
Node:	DS-22
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	1.2600 ac
Curve Number:	80.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 20

Scenario:	post development
Node:	DS-35
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	12.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.2600 ac
Curve Number:	76.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 21

Scenario:	post development
Node:	DS-37
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	12.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.3400 ac
Curve Number:	76.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 22

Scenario:	post development
Node:	DS-36
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	12.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.3400 ac
Curve Number:	76.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 23

Scenario:	post development
Node:	DS-34
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	12.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.2600 ac
Curve Number:	76.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 3

Scenario:	post development
Node:	DS-23
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.8400 ac
Curve Number:	83.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 4

Scenario:	post development
Node:	DS-21
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.8500 ac
Curve Number:	84.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 5

Scenario:	post development
Node:	DS-31
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.9100 ac
Curve Number:	81.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 6

Scenario:	post development
Node:	DS-30
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.9300 ac
Curve Number:	83.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 7

Scenario:	post development
Node:	DS-28
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	1.1900 ac
Curve Number:	83.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 8

Scenario:	post development
Node:	DS-17
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	13.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.5900 ac
Curve Number:	87.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 9

Scenario:	post development
Node:	POND (LILLIAN LEE)
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	10.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	2.6400 ac
Curve Number:	83.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN19

Scenario:	post development
Node:	DS-33
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.5600 ac
Curve Number:	81.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: EAST OFFSITE (REVISED)

Scenario:	post development
Node:	East Offsite
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	37.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	19.2300 ac
Curve Number:	63.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment: EAST OFFSITE

Simple Basin: EXCHANGE APARTMENT(NORTH)

Scenario:	post development
Node:	POND B (DRY)
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	18.0000 min
Max Allowable Q:	99999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	9.2000 ac
Curve Number:	65.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: EXCHANGE APARTMENT(SOUTH)

Scenario:	post development
Node:	POND A (WET)
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	18.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	16.6100 ac
Curve Number:	74.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: NORTH OFFSITE

Scenario:	post development
Node:	NORTH OFFSITE
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	24.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	2.4600 ac
Curve Number:	72.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: ROAD 1

Scenario:	post development
Node:	DS-11A
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	10.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.3800 ac
Curve Number:	93.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: ROAD 2

Scenario:	post development
Node:	DS-1
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	10.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.1100 ac
Curve Number:	96.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: SOUTH OFFSITE (REVISED)

Scenario:	post development
Node:	POND A (WET)
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	37.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	15.6300 ac
Curve Number:	39.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment: SOUTH OFFSITE

Node: ASHTON PARK

Scenario:	post development
Type:	Stage/Area
Base Flow:	0.00 cfs
Initial Stage:	71.06 ft
Warning Stage:	74.50 ft

Stage [ft]	Area [ac]	Area [ft2]
71.06	3.0620	133381
72.00	3.2510	141614
73.00	3.4460	150108
74.00	3.6460	158820

Comment: CONVERTED

Node: DS-1

Scenario:	post development
Type:	Stage/Volume
Base Flow:	0.00 cfs
Initial Stage:	63.50 ft
Warning Stage:	73.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.50	0.00	0
73.00	0.00	44
73.00	0.00	44

Comment: CONVERTED

Node: DS-11

Scenario:	post development
Type:	Stage/Volume
Base Flow:	0.00 cfs
Initial Stage:	64.12 ft

Warning Stage: 70.90 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
64.12	0.00	0
73.00	0.00	44
73.00	0.00	44

Comment: CONVERTED

Node: DS-11A

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 67.00 ft
Warning Stage: 71.02 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
67.00	0.00	44
71.02	0.00	87
71.02	0.00	87

Comment: CONVERTED

Node: DS-12

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 63.58 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.58	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-13

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 63.76 ft
Warning Stage: 72.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.76	0.00	0
72.00	0.00	44
72.00	0.00	44

Comment: CONVERTED

Node: DS-14

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 69.39 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
69.39	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-15

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 69.69 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
69.69	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-17

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 67.70 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
67.70	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-18

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 67.83 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
67.83	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-2

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 63.64 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.64	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-20

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 62.76 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
62.76	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-21

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 63.14 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.14	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-22

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 64.52 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
64.52	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-23

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 63.80 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.80	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-24

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 64.18 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
64.18	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-26

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 65.60 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
65.60	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-27

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 67.45 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
67.45	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-28

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 66.92 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
66.92	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-29

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 68.32 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
68.32	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-2A

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 63.66 ft
Warning Stage: 73.50 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.66	0.00	44
73.50	0.00	87
73.50	0.00	87

Comment: CONVERTED

Node: DS-3

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 63.95 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.95	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-30

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 67.58 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
67.58	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-31

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 68.70 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
68.70	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-32

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 65.56 ft
Warning Stage: 73.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
65.56	0.00	0
73.00	0.00	44
73.00	0.00	44

Comment: CONVERTED

Node: DS-33

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 66.85 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
66.85	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-34

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 68.36 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
68.36	0.00	44
74.00	0.00	87
74.00	0.00	87

Comment: CONVERTED

Node: DS-35

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 67.69 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
67.69	0.00	44
74.00	0.00	87
74.00	0.00	87

Comment: CONVERTED

Node: DS-36

Scenario: post development

Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 67.65 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
67.65	0.00	44
74.00	0.00	87
74.00	0.00	87

Comment: CONVERTED

Node: DS-37

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 67.17 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
67.17	0.00	44
74.00	0.00	87
74.00	0.00	87

Comment: CONVERTED

Node: DS-4

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 64.36 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
64.36	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-5

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 64.66 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
64.66	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-6

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 64.70 ft
Warning Stage: 73.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
64.70	0.00	0
73.00	0.00	44
73.00	0.00	44

Comment: CONVERTED

Node: DS-9

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 63.74 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.74	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: East Offsite

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 68.20 ft
Warning Stage: 72.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
68.20	0.00	0
70.00	1.81	79018
71.00	7.35	320297
72.00	17.96	782338

Comment: CONVERTED

Node: NORTH OFFSITE

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 71.00 ft
Warning Stage: 72.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
71.00	0.00	44
72.00	0.00	87

Stage [ft]	Volume [ac-ft]	Volume [ft3]
72.00	0.00	87

Comment: CONVERTED

Node: OUTFALL(TW)

Scenario: post development
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 63.61 ft
Warning Stage: 69.00 ft
Boundary Stage: OUTFALL(TW)

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	63.61
0	0	0	80.0000	63.61

Comment: Boundary Stage per SFWMD permit no.49-02368-P

CONVERTED

Node: POND (LILLIAN LEE)

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 69.50 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
69.50	0.00	0
70.00	0.74	32278
70.50	1.52	65993
71.00	2.32	101146
71.50	3.16	137780
72.00	4.04	175852
72.50	4.95	215448
73.00	5.89	256525
74.00	8.00	348654

Comment: CONVERTED FROM NGVD TO NAVD SUBTRACT 1-FT
LILLIAN LEE PERMIT (SFWMD 49-100468-P/APPL 180201-300) WAS IN NGVD
PERMITTED CONTROL WAS 70.5 NGVD

CONVERTED

Node: POND A (WET)

Scenario: post development
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 72.00 ft
Warning Stage: 75.00 ft

Stage [ft]	Area [ac]	Area [ft2]
72.00	2.0100	87556
73.00	2.1800	94961
74.00	2.3500	102366
75.00	3.3800	147233
76.10	3.7400	162914

Comment: 72 2.05
73 2.21
74 2.37
75 2.54

Node: POND B (DRY)

Scenario: post development
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 73.00 ft
Warning Stage: 74.00 ft

Stage [ft]	Area [ac]	Area [ft2]
73.00	0.5300	23087
74.00	0.6900	30056

Comment:

Node: Spreader Swale

Scenario: post development
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 72.00 ft
Warning Stage: 74.00 ft

Stage [ft]	Area [ac]	Area [ft2]
72.00	0.0060	261
73.00	0.0180	784

Comment:

Weir Link: AP OVERFLOW 1

Scenario: post development
From Node: ASHTON PARK
To Node: POND (LILLIAN LEE)
Link Count: 1
Flow Direction: Both
Damping: 0.0000 ft
Weir Type: Sharp Crested Vertical
Geometry Type: Rectangular
Invert: 74.00 ft
Control Elevation: 74.00 ft
Max Depth: 83.25 ft
Max Width: 160.00 ft
Fillet: 0.00 ft

Bottom Clip
Default: 0.00 ft
Op Table:
Ref Node:

Top Clip
Default: 0.00 ft
Op Table:
Ref Node:

Discharge Coefficients
Weir Default: 3.000
Weir Table:
Orifice Default: 0.600
Orifice Table:

Comment: CONVERTED

Weir Link: AP OVERFLOW 2

Scenario:	post development
From Node:	ASHTON PARK
To Node:	DS-6
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	74.00 ft
Control Elevation:	74.00 ft
Max Depth:	83.25 ft
Max Width:	200.00 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment: CONVERTED

Weir Link: AP OVERFLOW 3

Scenario:	post development
From Node:	ASHTON PARK
To Node:	OUTFALL(TW)
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	74.00 ft
Control Elevation:	74.00 ft
Max Depth:	83.25 ft
Max Width:	400.00 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment: CONVERTED

Drop Structure Link: ASHTON CS-1

Scenario:	post development
From Node:	ASHTON PARK
To Node:	DS-11
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0000 ft
Length:	85.00 ft
FHWA Code:	1
Entr Loss Coef:	0.50
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe

Invert:	65.50 ft
Manning's N:	0.0120

Geometry: Circular

Max Depth:	2.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe

Invert:	65.12 ft
Manning's N:	0.0120

Geometry: Circular

Max Depth:	2.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Pipe Comment:

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	71.63 ft
Control Elevation:	71.63 ft
Max Depth:	0.35 ft
Max Width:	8.00 ft
Fillet:	0.00 ft

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: CONVERTED

Weir Component

Weir:	2
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Horizontal
Geometry Type:	Rectangular
Invert:	73.50 ft
Control Elevation:	73.50 ft
Max Depth:	3.08 ft
Max Width:	4.08 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: CONVERTED

Drop Structure Comment:

Drop Structure Link: CS-1 (LILLIAN LEE)

Scenario:	post development
From Node:	POND (LILLIAN LEE)
To Node:	DS-3
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0000 ft
Length:	20.00 ft
FHWA Code:	1
Entr Loss Coef:	0.50
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe	
Invert:	67.00 ft
Manning's N:	0.0120
Geometry:	Circular
Max Depth:	2.00 ft
Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe	
Invert:	66.76 ft
Manning's N:	0.0120
Geometry:	Circular
Max Depth:	2.00 ft
Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Pipe Comment: CONVERTED

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Horizontal
Geometry Type:	Rectangular
Invert:	73.50 ft
Control Elevation:	73.50 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Max Depth:	3.00 ft
Max Width:	6.58 ft
Fillet:	0.00 ft

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: CONVERTED

Weir Component

Weir:	2
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Circular
Invert:	69.50 ft
Control Elevation:	69.50 ft
Max Depth:	0.29 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: CONVERTED

Weir Component

Weir:	3
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	70.96 ft
Control Elevation:	70.96 ft
Max Depth:	0.17 ft
Max Width:	2.50 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: CONVERTED

Drop Structure Comment:

Drop Structure Link: DS-A

Scenario:	post development
From Node:	POND A (WET)
To Node:	Spreader Swale
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0000 ft
Length:	350.00 ft
FHWA Code:	0
Entr Loss Coef:	0.50
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec

Upstream Pipe

Invert:	71.80 ft
Manning's N:	0.0120

Geometry: Circular

Max Depth:	2.50 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe

Invert:	70.00 ft
Manning's N:	0.0120

Geometry: Circular

Max Depth:	2.50 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Energy Switch: Energy

Pipe Comment:

Weir Component	
Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Horizontal
Geometry Type:	Rectangular
Invert:	74.65 ft
Control Elevation:	74.65 ft
Max Depth:	4.50 ft
Max Width:	3.00 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: Type E inlet
4.5
73 invert. depth 3

Weir Component	
Weir:	2
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Circular
Invert:	72.00 ft
Control Elevation:	72.00 ft
Max Depth:	0.50 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Weir Component	
Weir:	3
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	74.00 ft
Control Elevation:	74.00 ft
Max Depth:	0.65 ft
Max Width:	4.20 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Weir Link: EXCHANGE APARTMENT OVERFLOW	
Scenario:	post development
From Node:	POND B (DRY)

Bottom Clip	
Default:	0.00 ft

To Node:	POND A (WET)
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Trapezoidal
Invert:	74.00 ft
Control Elevation:	74.00 ft
Max Depth:	9999.00 ft
Extrapolation Method:	Normal Projection
Bottom Width:	36.00 ft
Left Slope:	4.000 (h:v)
Right Slope:	4.000 (h:v)

Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: East Offsite

Scenario:	post development
From Node:	East Offsite
To Node:	DS-13
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Trapezoidal
Invert:	68.20 ft
Control Elevation:	68.20 ft
Max Depth:	9999.00 ft
Extrapolation Method:	Normal Projection
Bottom Width:	0.00 ft
Left Slope:	300.000 (h:v)
Right Slope:	230.000 (h:v)

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment: CONVERTED

Channel Link: East Swale

Scenario:	post development
From Node:	DS-12
To Node:	DS-13
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Length:	345.00 ft
Contraction Coef:	0.10
Expansion Coef:	0.30
Entr Loss Coef:	0.00
Exit Loss Coef:	0.00
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream		Downstream	
Invert:	70.00 ft	Invert:	68.00 ft
Manning's N:	0.0000	Manning's N:	0.0000
Geometry: Irregular		Geometry: Irregular	
Cross Section:	East Swale 2	Cross Section:	East Swale 1

Comment: CONVERTED

Weir Link: Exchange Spreader

Scenario:	post development
From Node:	Spreader Swale

Bottom Clip	
Default:	0.00 ft

To Node:	DS-15
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	73.50 ft
Control Elevation:	73.50 ft
Max Depth:	999999.00 ft
Max Width:	63.00 ft
Fillet:	0.00 ft

Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Pipe Link: Exist Culvert

Scenario:	post development
From Node:	DS-1
To Node:	OUTFALL(TW)
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Length:	84.00 ft
FHWA Code:	1
Entr Loss Coef:	0.20
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream	
Invert:	63.50 ft
Manning's N:	0.0240
Geometry: Circular	
Max Depth:	2.00 ft
Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream	
Invert:	63.61 ft
Manning's N:	0.0240
Geometry: Circular	
Max Depth:	2.00 ft
Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Comment: CONVERTED

Weir Link: Lillian Lee Rd

Scenario:	post development
From Node:	DS-1
To Node:	OUTFALL(TW)
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Paved Road Vertical
Geometry Type:	Rectangular
Invert:	70.90 ft
Control Elevation:	70.90 ft
Max Depth:	83.25 ft
Max Width:	100.00 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment: CONVERTED

Weir Link: NORTH OFF SITE

Scenario:	post development
From Node:	NORTH OFFSITE
To Node:	DS-6
Link Count:	1
Flow Direction:	Both

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	

Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	71.00 ft
Control Elevation:	71.00 ft
Max Depth:	1.00 ft
Max Width:	200.00 ft
Fillet:	0.00 ft

Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment: CONVERTED

Pipe Link: P1

		Upstream		Downstream	
Scenario:	post development	Invert:	63.64 ft	Invert:	63.50 ft
From Node:	DS-2	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-1	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	288.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P10

		Upstream		Downstream	
Scenario:	post development	Invert:	63.74 ft	Invert:	63.70 ft
From Node:	DS-9	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-2	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	8.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P11

		Upstream		Downstream	
Scenario:	post development	Invert:	63.58 ft	Invert:	63.50 ft
From Node:	DS-12	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-1	Geometry: Circular		Geometry: Circular	
Link Count:	2	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	69.00 ft	Op Table:		Op Table:	

FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P12		Upstream		Downstream	
Scenario:	post development	Invert:	63.76 ft	Invert:	63.58 ft
From Node:	DS-13	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-12	Geometry: Circular		Geometry: Circular	
Link Count:	2	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	345.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P13		Upstream		Downstream	
Scenario:	post development	Invert:	65.56 ft	Invert:	64.76 ft
From Node:	DS-32	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-13	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	400.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P13A		Upstream		Downstream	
Scenario:	post development	Invert:	69.39 ft	Invert:	65.56 ft
From Node:	DS-14	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-32	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.50 ft	Max Depth:	2.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	465.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000

Exit Loss Coef:	0.50		Top Clip		
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P14		Upstream		Downstream	
Scenario:	post development	Invert:	69.69 ft	Invert:	69.39 ft
From Node:	DS-15	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-14	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.50 ft	Max Depth:	2.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	150.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P15		Upstream		Downstream	
Scenario:	post development	Invert:	62.76 ft	Invert:	62.50 ft
From Node:	DS-20	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	POND (LILLIAN LEE)	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Positive	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	130.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.70	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P16		Upstream		Downstream	
Scenario:	post development	Invert:	63.14 ft	Invert:	62.76 ft
From Node:	DS-21	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-20	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	190.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft

Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P17		Upstream		Downstream	
Scenario:	post development	Invert:	64.52 ft	Invert:	64.39 ft
From Node:	DS-22	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-21	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.25 ft	Max Depth:	1.25 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	25.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P18		Upstream		Downstream	
Scenario:	post development	Invert:	63.80 ft	Invert:	63.14 ft
From Node:	DS-23	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-21	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	265.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P19		Upstream		Downstream	
Scenario:	post development	Invert:	64.18 ft	Invert:	64.05 ft
From Node:	DS-24	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-23	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	25.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	

		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P2		Upstream		Downstream	
Scenario:	post development	Invert:	63.80 ft	Invert:	63.66 ft
From Node:	DS-3	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-2A	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	141.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P20		Upstream		Downstream	
Scenario:	post development	Invert:	67.70 ft	Invert:	67.50 ft
From Node:	DS-17	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	POND (LILLIAN LEE)	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.25 ft	Max Depth:	1.25 ft
Flow Direction:	Positive	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	40.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.70	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P21		Upstream		Downstream	
Scenario:	post development	Invert:	67.83 ft	Invert:	67.70 ft
From Node:	DS-18	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-17	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.25 ft	Max Depth:	1.25 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	25.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P22		Upstream		Downstream	
Scenario:	post development	Invert:	65.60 ft	Invert:	63.20 ft
From Node:	DS-26	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	POND (LILLIAN LEE)	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.50 ft	Max Depth:	2.50 ft
Flow Direction:	Positive	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	80.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.70	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P23		Upstream		Downstream	
Scenario:	post development	Invert:	66.92 ft	Invert:	66.39 ft
From Node:	DS-28	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-26	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	1.58 ft	Max Depth:	1.58 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	265.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P24		Upstream		Downstream	
Scenario:	post development	Invert:	67.45 ft	Invert:	67.32 ft
From Node:	DS-27	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-28	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.25 ft	Max Depth:	1.25 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	25.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P25		Upstream		Downstream	
Scenario:	post development	Invert:	67.58 ft	Invert:	66.92 ft

		Upstream		Downstream	
From Node:	DS-30	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-28	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	1.58 ft	Max Depth:	1.58 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	265.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P26		Upstream		Downstream	
Scenario:	post development	Invert:	68.12 ft	Invert:	67.99 ft
From Node:	DS-29	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-30	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	25.00 ft	Op Table:		Op Table:	
FHWA Code:	30	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0130	Manning's N:	0.0130
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0130	Manning's N:	0.0130

Comment: CONVERTED

Pipe Link: P27		Upstream		Downstream	
Scenario:	post development	Invert:	68.70 ft	Invert:	68.32 ft
From Node:	DS-31	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-29	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	150.00 ft	Op Table:		Op Table:	
FHWA Code:	30	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0130	Manning's N:	0.0130
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0130	Manning's N:	0.0130

Comment: CONVERTED

Pipe Link: P28		Upstream		Downstream	
Scenario:	post development	Invert:	68.36 ft	Invert:	67.99 ft
From Node:	DS-34	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-30	Geometry: Circular		Geometry: Circular	

Link Count:	1	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	74.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0120	Manning's N:	0.0120
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0120	Manning's N:	0.0120

Comment: CONVERTED

Pipe Link: P29		Upstream		Downstream	
Scenario:	post development	Invert:	67.69 ft	Invert:	67.32 ft
From Node:	DS-35	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-28	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	74.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P2A		Upstream		Downstream	
Scenario:	post development	Invert:	63.66 ft	Invert:	63.64 ft
From Node:	DS-2A	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-2	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	23.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P3		Upstream		Downstream	
Scenario:	post development	Invert:	64.10 ft	Invert:	63.95 ft
From Node:	DS-4	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-3	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.50 ft	Max Depth:	3.50 ft
Flow Direction:	Both	Bottom Clip			

Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	150.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P30		Upstream		Downstream	
Scenario:	post development	Invert:	67.65 ft	Invert:	67.28 ft
From Node:	DS-36	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-23	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	74.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P31		Upstream		Downstream	
Scenario:	post development	Invert:	67.17 ft	Invert:	66.80 ft
From Node:	DS-37	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-21	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	74.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P32		Upstream		Downstream	
Scenario:	post development	Invert:	66.85 ft	Invert:	66.72 ft
From Node:	DS-33	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-26	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.25 ft	Max Depth:	1.25 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	25.00 ft	Op Table:		Op Table:	

FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P4		Upstream		Downstream	
Scenario:	post development	Invert:	64.41 ft	Invert:	64.10 ft
From Node:	DS-5	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-4	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.50 ft	Max Depth:	3.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	320.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P5		Upstream		Downstream	
Scenario:	post development	Invert:	64.70 ft	Invert:	64.66 ft
From Node:	DS-6	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-5	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.50 ft	Max Depth:	3.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	8.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P8		Upstream		Downstream	
Scenario:	post development	Invert:	64.12 ft	Invert:	63.74 ft
From Node:	DS-11	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-9	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.50 ft	Max Depth:	2.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	378.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000

Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P8A		Upstream		Downstream	
Scenario:	post development	Invert:	67.00 ft	Invert:	66.86 ft
From Node:	DS-11A	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-11	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	28.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Simulation: 100y72h

Scenario: post development
Run Date/Time: 4/20/2023 9:21:11 AM
Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		60.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000
0	0	0	65.0000	15.0000
0	0	0	72.0000	60.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000
0	0	0	65.0000	15.0000
0	0	0	72.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set: 100yr72hr
Extern Hydrograph Set:
Curve Number Set: ICPR3
Green-Ampt Set: ICPR3
Vertical Layers Set:
Impervious Set: ICPR3

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

Edge Length Option: Automatic

IA Recovery Time: 72.0000 hr

Smp/Man Basin Rain Opt: Global

Rainfall Name: Sfwmd72
Rainfall Amount: 12.00 in
Storm Duration: 72.0000 hr

Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Simulation: 10y24h

Scenario: post development
Run Date/Time: 4/20/2023 9:27:15 AM
Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	24.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		60.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000
0	0	0	15.0000	15.0000
0	0	0	24.0000	60.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000
0	0	0	15.0000	15.0000
0	0	0	24.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3
Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set: 10yr24hr
Extern Hydrograph Set:
Curve Number Set: ICPR3
Green-Ampt Set: ICPR3
Vertical Layers Set:
Impervious Set: ICPR3

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft
Edge Length Option: Automatic

IA Recovery Time: 24.0000 hr
Smp/Man Basin Rain Opt: Global
Rainfall Name: Flmod
Rainfall Amount: 6.00 in
Storm Duration: 24.0000 hr
Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

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Simulation: 10y72h

Scenario: post development
Run Date/Time: 4/20/2023 9:28:38 AM
Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		60.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000
0	0	0	50.0000	15.0000
0	0	0	65.0000	60.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000
0	0	0	50.0000	15.0000
0	0	0	65.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3

Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set: 10yr72hr
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

Edge Length Option: Automatic

IA Recovery Time: 72.0000 hr

Smp/Man Basin Rain Opt: Global

Rainfall Name: Sfwmd72
Rainfall Amount: 8.00 in
Storm Duration: 72.0000 hr

Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment:

Boundary Stage: OUTFALL(TW)

Boundary Stage Set: 100yr72hr

Year	Month	Day	Hour [hr]	Stage [ft]
0	0	0	0.0000	63.61
0	0	0	48.8500	63.81
0	0	0	54.1500	63.97
0	0	0	62.3900	64.94
0	0	0	63.9600	65.50
0	0	0	68.3300	64.93
0	0	0	72.0000	64.89
0	0	0	80.0000	63.61

Comment: Boundary Stage per SFWMD Permit No. 49-100468-P

Boundary Stage: OUTFALL(TW)

Boundary Stage Set: 10yr24hr

Year	Month	Day	Hour [hr]	Stage [ft]
0	0	0	0.0000	63.61
0	0	0	6.8300	63.61
0	0	0	11.5300	64.24
0	0	0	13.5300	64.66
0	0	0	15.7000	64.84
0	0	0	17.1100	64.66
0	0	0	24.0000	64.00

Comment: Boundary Stage per SFWMD Permit No. 49-100468-P

CONVERTED

Boundary Stage: OUTFALL(TW)

Boundary Stage Set: 10yr72hr

Year	Month	Day	Hour [hr]	Stage [ft]
0	0	0	0.0000	63.61
0	0	0	48.8500	63.81
0	0	0	54.1500	63.97
0	0	0	62.3900	64.94
0	0	0	63.9600	65.15
0	0	0	68.3300	64.93
0	0	0	72.0000	64.89
0	0	0	360.0000	63.61

Comment: Boundary Stage per SFWMD Permit No. 49-100468-P

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HATHAWAY MULTI FAMILY DEVELOPMENT

Osceola County, Florida

Appendix No. 3

Phosphorus Loading Calculation

HATHAWAY MULTI FAMILY DEVELOPMENT

Prepared by:
Hanson, Walter & Associates, Inc.
104 Broadway, Suite 104
Kissimmee, FL 34741
(407) 847-9433

SUPPORT CALCULATIONS

Job Name:	HATHAWAY MULTI FAMILY DEVELOPMENT	Prepared By: TE
HWA Job Number:	5450	Checked By: TE
Development (Bold one):	Pre **Post**	
Basin Name:	Pond A	

POND STAGE / STORAGE CALCULATIONS [1]

(Below Bleeder for Permanent Pool Volume)

	Stage	Area (sf)	Area (ac)	Average Area (ac)	Volume (ac-ft)	Accumulated Volume (ac-ft)
	66	55,956	1.28	0	0	0
	69	66,278	1.52	1.40	4.21	4.21
CWL	72.00	87,626	2.01	1.77	5.30	9.51

RESIDENCE TIME

Runoff Coefficient:

Land Use Description	C	Area (acre)	CxArea
Building	0.98	2.77	2.71
Wet Pond	1	2.54	2.54
Impervious	0.98	9.01	8.83
Open Space	0.2	27.12	5.42
	TOTAL	41.44	19.50

C (weighted) = Total Product / Total Area = **0.47**

Minimum Permanent Pool Volume:

Area (acre)	Weighted Runoff Coefficient	Residence Time (days)	Wet Season Regional Rainfall (in) [2]	Days of Wet Season (June - October)	Months
41.44	0.47	21	31.2	153	June - October

Minimum Required Permanent Pool Volume: 6.96 ac-ft

Actual Provided Permanent Pool Volume:	**9.51 ac-ft**
Actual Residence Time (days):	**29 days**

(ADEQUATE PERMANENT VOLUME PROVIDED)

2) Technical Publication WRE #380 - Regional Rainfall Frequency Analysis for Central and South Florida; Hydrologic Reporting Unity Resource Assessment Division-Water Resources evaluation Department South Florida Water Management District; Dated July 1999.

Complete Report (not including cost) Ver 4.3.5

Project: HATHAWAY MULTI FAMILY DEVELOPMENT
Date: 12/15/2022 11:25:32 AM

Site and Catchment Information

Analysis: BMP Analysis

Catchment Name	EXCHANGE APARTMENT
Rainfall Zone	Florida Zone 2
Annual Mean Rainfall	50.00

Pre-Condition Landuse Information

Landuse	Agricultural - Row Crops: TN=2.650 TP=0.593
Area (acres)	25.81
Rational Coefficient (0-1)	0.01
Non DCIA Curve Number	42.00
DCIA Percent (0-100)	0.00
Nitrogen EMC (mg/l)	2.650
Phosphorus EMC (mg/l)	0.593
Runoff Volume (ac-ft/yr)	0.882
Groundwater N (kg/yr)	0.000
Groundwater P (kg/yr)	0.000
Nitrogen Loading (kg/yr)	2.881
Phosphorus Loading (kg/yr)	0.645 → pre-Development phosphorus Loading

Post-Condition Landuse Information

Landuse	Multi-Family: TN=2.320 TP=0.520
Area (acres)	25.81
Rational Coefficient (0-1)	0.30
Non DCIA Curve Number	56.03
DCIA Percent (0-100)	34.91
Wet Pond Area (ac)	2.01
Nitrogen EMC (mg/l)	2.320
Phosphorus EMC (mg/l)	0.520
Runoff Volume (ac-ft/yr)	29.583
Groundwater N (kg/yr)	0.000
Groundwater P (kg/yr)	0.000

Nitrogen Loading (kg/yr)	84.623
Phosphorus Loading (kg/yr)	18.967

Catchment Number: 1 Name: EXCHANGE APARTMENT

Project: HATHAWAY MULTI FAMILY DEVELOPMENT
Date: 12/15/2022

Multiple BMP in Series Design Parameters

BMP in Series Number: 1
BMP Type: Retention

Retention Depth (in)	1.000
Retention Volume (ac-ft)	1.983

BMP in Series Number: 2
BMP Type: Wet Detention

Permanent Pool Volume (ac-ft)	9.510
Permanent Pool Volume (ac-ft) for 31 days residence	2.513
Annual Residence Time (days)	117
Littoral Zone Efficiency Credit	
Wetland Efficiency Credit	

BMP in Series Number: 3
BMP Type: None

BMP in Series Number: 4
BMP Type: None

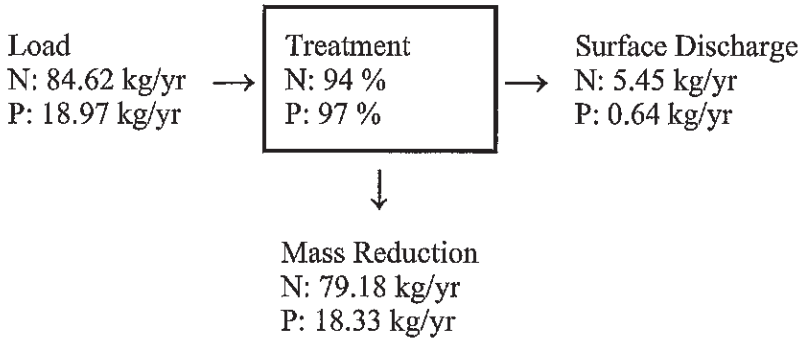
Watershed Characteristics

Catchment Area (acres)	25.81
Contributing Area (acres)	23.800
Non-DCIA Curve Number	56.03
DCIA Percent	34.91
Rainfall Zone	Florida Zone 2
Rainfall (in)	50.00

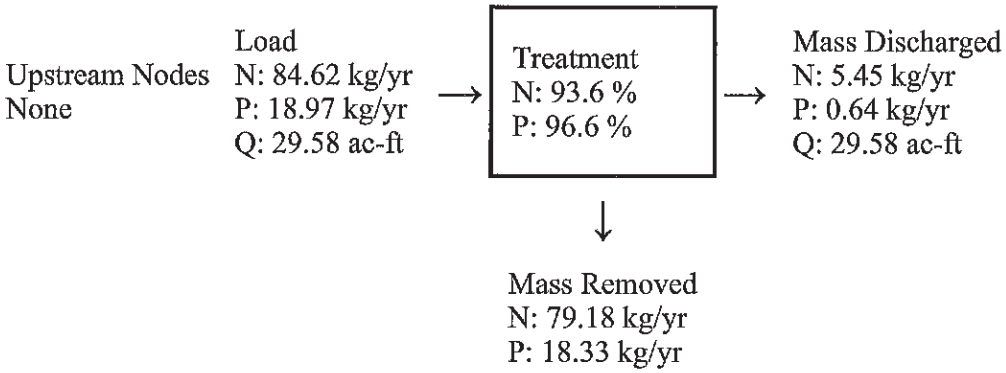
Surface Water Discharge

Required TN Treatment Efficiency (%)	
Provided TN Treatment Efficiency (%)	94
Required TP Treatment Efficiency (%)	
Provided TP Treatment Efficiency (%)	97

Load for Multiple BMP in Series



Load Diagram for Multiple BMP (As Used In Routing)



Summary Treatment Report Version: 4.3.5

Project: HATHAWAY MULTI FAMILY DEVELOPMENT

Date:12/15/2022

Analysis Type: BMP Analysis
BMP Types:
Catchment 1 - (EXCHANGE APARTMENT) Multiple BMP
Based on % removal values to the nearest percent

Routing Summary
Catchment 1 Routed to Outlet

Summary Report

Nitrogen

Surface Water Discharge

Total N post load	84.62 kg/yr	
Percent N load reduction	94 %	
Provided N discharge load	5.45 kg/yr	12.01 lb/yr
Provided N load removed	79.18 kg/yr	174.59 lb/yr

Phosphorus

Surface Water Discharge

Total P post load	18.967 kg/yr	
Percent P load reduction	97 %	
Provided P discharge load	.636 kg/yr	1.4 lb/yr
Provided P load removed	18.331 kg/yr	40.419 lb/yr

Post-Development phosphorus Loading = 0.636 kg/yr < 0.645 = pre-Development Loading

HATHAWAY MULTI FAMILY DEVELOPMENT

Osceola County, Florida

Appendix No. 4

Recovery Analysis

HATHAWAY MULTI FAMILY DEVELOPMENT

Prepared by:
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Sim	Node Name	Relative Time [hrs]	Stage [ft]	Total Inflow Rate [cfs]	Total Outflow Rate [cfs]
10y72h	POND B (DRY)	0.0000	74.00	0.00	0.00
10y72h	POND B (DRY)	1.0032	73.75	0.00	1.94
10y72h	POND B (DRY)	2.0072	73.57	0.00	0.60
10y72h	POND B (DRY)	3.0163	73.51	0.00	0.37
10y72h	POND B (DRY)	4.0163	73.47	0.00	0.26
10y72h	POND B (DRY)	5.0163	73.44	0.00	0.20
10y72h	POND B (DRY)	6.0163	73.41	0.00	0.17
10y72h	POND B (DRY)	7.0163	73.39	0.00	0.15
10y72h	POND B (DRY)	8.0163	73.37	0.00	0.13
10y72h	POND B (DRY)	9.0163	73.35	0.00	0.12
10y72h	POND B (DRY)	10.0163	73.34	0.00	0.11
10y72h	POND B (DRY)	11.0163	73.32	0.00	0.10
10y72h	POND B (DRY)	12.0163	73.31	0.00	0.10
10y72h	POND B (DRY)	13.0163	73.30	0.00	0.09
10y72h	POND B (DRY)	14.0163	73.28	0.00	0.08
10y72h	POND B (DRY)	15.0163	73.27	0.00	0.08
10y72h	POND B (DRY)	16.0163	73.26	0.00	0.08
10y72h	POND B (DRY)	17.0163	73.25	0.00	0.07
10y72h	POND B (DRY)	18.0163	73.24	0.00	0.07
10y72h	POND B (DRY)	19.0163	73.23	0.00	0.07
10y72h	POND B (DRY)	20.0163	73.22	0.00	0.06
10y72h	POND B (DRY)	21.0163	73.21	0.00	0.06
10y72h	POND B (DRY)	22.0163	73.20	0.00	0.06
10y72h	POND B (DRY)	23.0163	73.19	0.00	0.06
10y72h	POND B (DRY)	24.0163	73.18	0.00	0.06
10y72h	POND B (DRY)	25.0163	73.18	0.00	0.05
10y72h	POND B (DRY)	26.0163	73.17	0.00	0.05
10y72h	POND B (DRY)	27.0163	73.16	0.00	0.05
10y72h	POND B (DRY)	28.0163	73.15	0.00	0.05
10y72h	POND B (DRY)	29.0163	73.14	0.00	0.05
10y72h	POND B (DRY)	30.0163	73.14	0.00	0.05
10y72h	POND B (DRY)	31.0163	73.13	0.00	0.05
10y72h	POND B (DRY)	32.0163	73.12	0.00	0.05
10y72h	POND B (DRY)	33.0163	73.12	0.00	0.04
10y72h	POND B (DRY)	34.0163	73.11	0.00	0.04
10y72h	POND B (DRY)	35.0163	73.10	0.00	0.04
10y72h	POND B (DRY)	36.0163	73.10	0.00	0.04
10y72h	POND B (DRY)	37.0163	73.09	0.00	0.04
10y72h	POND B (DRY)	38.0163	73.09	0.00	0.04
10y72h	POND B (DRY)	39.0163	73.08	0.00	0.04
10y72h	POND B (DRY)	40.0163	73.07	0.00	0.04
10y72h	POND B (DRY)	41.0163	73.07	0.00	0.04
10y72h	POND B (DRY)	42.0163	73.06	0.00	0.04
10y72h	POND B (DRY)	43.0163	73.06	0.00	0.04
10y72h	POND B (DRY)	44.0163	73.05	0.00	0.03
10y72h	POND B (DRY)	45.0163	73.05	0.00	0.03
10y72h	POND B (DRY)	46.0163	73.04	0.00	0.03
10y72h	POND B (DRY)	47.0163	73.04	0.00	0.03
10y72h	POND B (DRY)	48.0163	73.03	0.00	0.03
10y72h	POND B (DRY)	49.0163	73.03	0.00	0.03
10y72h	POND B (DRY)	50.0054	73.02	0.00	0.03
10y72h	POND B (DRY)	50.2588	73.02	0.00	0.03

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Total Inflow Rate [cfs]	Total Outflow Rate [cfs]
10y72h	POND B (DRY)	50.5126	73.02	0.00	0.03
10y72h	POND B (DRY)	50.7598	73.02	0.00	0.03
10y72h	POND B (DRY)	51.0011	73.02	0.00	0.03
10y72h	POND B (DRY)	51.2590	73.01	0.00	0.03
10y72h	POND B (DRY)	51.5016	73.01	0.00	0.03
10y72h	POND B (DRY)	51.7524	73.01	0.00	0.03
10y72h	POND B (DRY)	52.0021	73.01	0.00	0.03
10y72h	POND B (DRY)	52.2570	73.01	0.00	0.03
10y72h	POND B (DRY)	52.5003	73.01	0.00	0.03
10y72h	POND B (DRY)	52.7545	73.01	0.00	0.03
10y72h	POND B (DRY)	53.0070	73.01	0.00	0.03
10y72h	POND B (DRY)	53.2568	73.01	0.00	0.03
10y72h	POND B (DRY)	53.5048	73.00	0.00	0.03
10y72h	POND B (DRY)	53.7514	73.00	0.00	0.03
10y72h	POND B (DRY)	54.0086	73.00	0.00	0.03
10y72h	POND B (DRY)	54.2520	73.00	0.00	0.03
10y72h	POND B (DRY)	54.5001	73.00	0.00	0.00
10y72h	POND B (DRY)	54.7524	73.00	0.00	0.00
10y72h	POND B (DRY)	55.0012	73.00	0.00	0.00
10y72h	POND B (DRY)	55.2519	73.00	0.00	0.00
10y72h	POND B (DRY)	55.5004	73.00	0.00	0.00
10y72h	POND B (DRY)	55.7503	73.00	0.00	0.00
10y72h	POND B (DRY)	56.0014	73.00	0.00	0.00
10y72h	POND B (DRY)	56.2515	73.00	0.00	0.00
10y72h	POND B (DRY)	56.5009	73.00	0.00	0.00
10y72h	POND B (DRY)	56.7514	73.00	0.00	0.00
10y72h	POND B (DRY)	57.0005	73.00	0.00	0.00
10y72h	POND B (DRY)	57.2507	73.00	0.00	0.00
10y72h	POND B (DRY)	57.5002	73.00	0.00	0.00
10y72h	POND B (DRY)	57.7520	73.00	0.00	0.00
10y72h	POND B (DRY)	58.0002	73.00	0.00	0.00
10y72h	POND B (DRY)	58.2507	73.00	0.00	0.00
10y72h	POND B (DRY)	58.5011	73.00	0.00	0.00
10y72h	POND B (DRY)	58.7508	73.00	0.00	0.00
10y72h	POND B (DRY)	59.0003	73.00	0.00	0.00
10y72h	POND B (DRY)	59.2510	73.00	0.00	0.00
10y72h	POND B (DRY)	59.5009	73.00	0.00	0.00
10y72h	POND B (DRY)	59.7504	73.00	0.00	0.00
10y72h	POND B (DRY)	60.0006	73.00	0.00	0.00
10y72h	POND B (DRY)	60.2504	73.00	0.00	0.00
10y72h	POND B (DRY)	60.5003	73.00	0.00	0.00
10y72h	POND B (DRY)	60.7503	73.00	0.00	0.00
10y72h	POND B (DRY)	61.0001	73.00	0.00	0.00
10y72h	POND B (DRY)	61.2503	73.00	0.00	0.00
10y72h	POND B (DRY)	61.5007	73.00	0.00	0.00
10y72h	POND B (DRY)	61.7507	73.00	0.00	0.00
10y72h	POND B (DRY)	62.0004	73.00	0.00	0.00
10y72h	POND B (DRY)	62.2501	73.00	0.00	0.00
10y72h	POND B (DRY)	62.5002	73.00	0.00	0.00
10y72h	POND B (DRY)	62.7503	73.00	0.00	0.00
10y72h	POND B (DRY)	63.0001	73.00	0.00	0.00
10y72h	POND B (DRY)	63.2501	73.00	0.00	0.00

Recovery time →

Sim	Node Name	Relative Time [hrs]	Stage [ft]	Total Inflow Rate [cfs]	Total Outflow Rate [cfs]
10y72h	POND B (DRY)	63.5006	73.00	0.00	0.00
10y72h	POND B (DRY)	63.7501	73.00	0.00	0.00
10y72h	POND B (DRY)	64.0004	73.00	0.00	0.00
10y72h	POND B (DRY)	64.2510	73.00	0.00	0.00
10y72h	POND B (DRY)	64.5010	73.00	0.00	0.00
10y72h	POND B (DRY)	64.7505	73.00	0.00	0.00
10y72h	POND B (DRY)	65.0006	73.00	0.00	0.00
10y72h	POND B (DRY)	65.2516	73.00	0.00	0.00
10y72h	POND B (DRY)	65.5004	73.00	0.00	0.00
10y72h	POND B (DRY)	65.7510	73.00	0.00	0.00
10y72h	POND B (DRY)	66.0001	73.00	0.00	0.00
10y72h	POND B (DRY)	66.2500	73.00	0.00	0.00
10y72h	POND B (DRY)	66.5009	73.00	0.00	0.00
10y72h	POND B (DRY)	66.7508	73.00	0.00	0.00
10y72h	POND B (DRY)	67.0003	73.00	0.00	0.00
10y72h	POND B (DRY)	67.2500	73.00	0.00	0.00
10y72h	POND B (DRY)	67.5004	73.00	0.00	0.00
10y72h	POND B (DRY)	67.7501	73.00	0.00	0.00
10y72h	POND B (DRY)	68.0003	73.00	0.00	0.00
10y72h	POND B (DRY)	68.2503	73.00	0.00	0.00
10y72h	POND B (DRY)	68.5005	73.00	0.00	0.00
10y72h	POND B (DRY)	68.7539	73.00	0.00	0.00
10y72h	POND B (DRY)	69.0029	73.00	0.00	0.00
10y72h	POND B (DRY)	69.2507	73.00	0.00	0.00
10y72h	POND B (DRY)	69.5035	73.00	0.00	0.00
10y72h	POND B (DRY)	69.7517	73.00	0.00	0.00
10y72h	POND B (DRY)	70.0038	73.00	0.00	0.00
10y72h	POND B (DRY)	70.2518	73.00	0.00	0.00
10y72h	POND B (DRY)	70.5005	73.00	0.00	0.00
10y72h	POND B (DRY)	70.7512	73.00	0.00	0.00
10y72h	POND B (DRY)	71.0003	73.00	0.00	0.00
10y72h	POND B (DRY)	71.2509	73.00	0.00	0.00
10y72h	POND B (DRY)	71.5020	73.00	0.00	0.00
10y72h	POND B (DRY)	71.7536	73.00	0.00	0.00
10y72h	POND B (DRY)	72.0022	73.00	0.00	0.00

Simple Basin: ASHTON PARK

Scenario:	post development
Node:	ASHTON PARK
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	39.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH484
Peaking Factor:	484.0
Area:	47.5600 ac
Curve Number:	44.9
% Impervious:	26.50
% DCIA:	26.50
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 1

Scenario:	post development
Node:	DS-24
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	1.7600 ac
Curve Number:	77.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 10

Scenario:	post development
Node:	DS-29
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	10.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.7100 ac
Curve Number:	84.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN L1

Scenario:	post development
Node:	DS-27
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.7100 ac
Curve Number:	83.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN L2

Scenario:	post development
Node:	DS-18
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	1.0800 ac
Curve Number:	80.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN L3

Scenario:	post development
Node:	DS-2
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	13.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.0700 ac
Curve Number:	76.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 14

Scenario:	post development
Node:	DS-1
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	12.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.0700 ac
Curve Number:	76.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 15

Scenario:	post development
Node:	DS-13
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	28.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.7400 ac
Curve Number:	60.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 16

Scenario:	post development
Node:	DS-15
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	23.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.3800 ac
Curve Number:	62.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 17

Scenario:	post development
Node:	DS-20
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.4100 ac
Curve Number:	82.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 18

Scenario:	post development
Node:	DS-26
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.4700 ac
Curve Number:	82.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 2

Scenario:	post development
Node:	DS-22
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	1.2600 ac
Curve Number:	80.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 20

Scenario:	post development
Node:	DS-35
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	12.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.2600 ac
Curve Number:	76.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 21

Scenario:	post development
Node:	DS-37
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	12.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.3400 ac
Curve Number:	76.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 22

Scenario:	post development
Node:	DS-36
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	12.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.3400 ac
Curve Number:	76.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 23

Scenario:	post development
Node:	DS-34
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	12.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.2600 ac
Curve Number:	76.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 3

Scenario:	post development
Node:	DS-23
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.8400 ac
Curve Number:	83.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 4

Scenario:	post development
Node:	DS-21
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.8500 ac
Curve Number:	84.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 5

Scenario:	post development
Node:	DS-31
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.9100 ac
Curve Number:	81.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 6

Scenario:	post development
Node:	DS-30
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.9300 ac
Curve Number:	83.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 7

Scenario:	post development
Node:	DS-28
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	1.1900 ac
Curve Number:	83.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 8

Scenario:	post development
Node:	DS-17
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	13.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.5900 ac
Curve Number:	87.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 9

Scenario:	post development
Node:	POND (LILLIAN LEE)
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	10.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	2.6400 ac
Curve Number:	83.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: BASIN 19

Scenario:	post development
Node:	DS-33
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	15.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.5600 ac
Curve Number:	81.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: EAST OFFSITE (REVISED)

Scenario:	post development
Node:	East Offsite
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	37.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	19.2300 ac
Curve Number:	63.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment: EAST OFFSITE

Simple Basin: EXCHANGE APARTMENT(NORTH)

Scenario:	post development
Node:	POND B (DRY)
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	18.0000 min
Max Allowable Q:	99999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	9.2000 ac
Curve Number:	65.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: EXCHANGE APARTMENT(SOUTH)

Scenario:	post development
Node:	POND A (WET)
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	18.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	16.6100 ac
Curve Number:	74.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: NORTH OFFSITE

Scenario:	post development
Node:	NORTH OFFSITE
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	24.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	2.4600 ac
Curve Number:	72.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: ROAD 1

Scenario:	post development
Node:	DS-11A
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	10.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.3800 ac
Curve Number:	93.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: ROAD 2

Scenario:	post development
Node:	DS-1
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	10.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	0.1100 ac
Curve Number:	96.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment:

Simple Basin: SOUTH OFFSITE (REVISED)

Scenario:	post development
Node:	POND A (WET)
Hydrograph Method:	NRCS Unit Hydrograph
Infiltration Method:	Curve Number
Time of Concentration:	37.0000 min
Max Allowable Q:	999999.00 cfs
Time Shift:	0.0000 hr
Unit Hydrograph:	UH256
Peaking Factor:	256.0
Area:	15.6300 ac
Curve Number:	39.0
% Impervious:	0.00
% DCIA:	0.00
% Direct:	0.00
Rainfall Name:	Sfwmd72

Comment: SOUTH OFFSITE

Node: ASHTON PARK

Scenario:	post development
Type:	Stage/Area
Base Flow:	0.00 cfs
Initial Stage:	71.06 ft
Warning Stage:	74.50 ft

Stage [ft]	Area [ac]	Area [ft2]
71.06	3.0620	133381
72.00	3.2510	141614
73.00	3.4460	150108
74.00	3.6460	158820

Comment: CONVERTED

Node: DS-1

Scenario:	post development
Type:	Stage/Volume
Base Flow:	0.00 cfs
Initial Stage:	63.50 ft
Warning Stage:	73.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.50	0.00	0
73.00	0.00	44
73.00	0.00	44

Comment: CONVERTED

Node: DS-11

Scenario:	post development
Type:	Stage/Volume
Base Flow:	0.00 cfs
Initial Stage:	64.12 ft

Warning Stage: 70.90 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
64.12	0.00	0
73.00	0.00	44
73.00	0.00	44

Comment: CONVERTED

Node: DS-11A

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 67.00 ft
Warning Stage: 71.02 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
67.00	0.00	44
71.02	0.00	87
71.02	0.00	87

Comment: CONVERTED

Node: DS-12

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 63.58 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.58	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-13

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 63.76 ft
Warning Stage: 72.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.76	0.00	0
72.00	0.00	44
72.00	0.00	44

Comment: CONVERTED

Node: DS-14

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 69.39 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
69.39	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-15

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 69.69 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
69.69	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-17

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 67.70 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
67.70	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-18

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 67.83 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
67.83	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-2

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 63.64 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.64	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-20

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 62.76 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
62.76	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-21

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 63.14 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.14	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-22

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 64.52 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
64.52	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-23

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 63.80 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.80	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-24

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 64.18 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
64.18	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-26

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 65.60 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
65.60	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-27

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 67.45 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
67.45	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-28

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 66.92 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
66.92	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-29

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 68.32 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
68.32	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-2A

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 63.66 ft
Warning Stage: 73.50 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.66	0.00	44
73.50	0.00	87
73.50	0.00	87

Comment: CONVERTED

Node: DS-3

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 63.95 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.95	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-30

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 67.58 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
67.58	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-31

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 68.70 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
68.70	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-32

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 65.56 ft
Warning Stage: 73.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
65.56	0.00	0
73.00	0.00	44
73.00	0.00	44

Comment: CONVERTED

Node: DS-33

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 66.85 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
66.85	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-34

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 68.36 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
68.36	0.00	44
74.00	0.00	87
74.00	0.00	87

Comment: CONVERTED

Node: DS-35

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 67.69 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
67.69	0.00	44
74.00	0.00	87
74.00	0.00	87

Comment: CONVERTED

Node: DS-36

Scenario: post development

Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 67.65 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
67.65	0.00	44
74.00	0.00	87
74.00	0.00	87

Comment: CONVERTED

Node: DS-3/7

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 67.17 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
67.17	0.00	44
74.00	0.00	87
74.00	0.00	87

Comment: CONVERTED

Node: DS-4

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 64.36 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
64.36	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-5

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 64.66 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
64.66	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: DS-6

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 64.70 ft
Warning Stage: 73.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
64.70	0.00	0
73.00	0.00	44
73.00	0.00	44

Comment: CONVERTED

Node: DS-9

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 63.74 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
63.74	0.00	0
74.00	0.00	44
74.00	0.00	44

Comment: CONVERTED

Node: East Offsite

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 68.20 ft
Warning Stage: 72.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
68.20	0.00	0
70.00	1.81	79018
71.00	7.35	320297
72.00	17.96	782338

Comment: CONVERTED

Node: GROUND

Scenario: post development
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 71.70 ft
Warning Stage: 71.70 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	71.70

Year	Month	Day	Hour	Stage [ft]
0	0	0	200.0000	71.70

Comment:

Node: NORTH OFFSITE

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 71.00 ft
Warning Stage: 72.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
71.00	0.00	44
72.00	0.00	87
72.00	0.00	87

Comment: CONVERTED

Node: OUTFALL(TW)

Scenario: post development
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 63.61 ft
Warning Stage: 69.00 ft
Boundary Stage: OUTFALL(TW)

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	63.61
0	0	0	80.0000	63.61

Comment: Boundary Stage per SFWMD permit no.49-02368-P

CONVERTED

Node: POND (LILLIAN LEE)

Scenario: post development
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 69.50 ft
Warning Stage: 74.00 ft

Stage [ft]	Volume [ac-ft]	Volume [ft3]
69.50	0.00	0
70.00	0.74	32278
70.50	1.52	65993
71.00	2.32	101146
71.50	3.16	137780
72.00	4.04	175852
72.50	4.95	215448
73.00	5.89	256525
74.00	8.00	348654

Comment: CONVERTED FROM NGVD TO NAVD SUBTRACT 1-FT
LILLIAN LEE PERMIT (SFWMD 49-100468-P/APPL 180201-300) WAS IN NGVD
PERMITTED CONTROL WAS 70.5 NGVD

CONVERTED

Node: POND A (WET)

Scenario: post development
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 72.00 ft
Warning Stage: 75.00 ft

Stage [ft]	Area [ac]	Area [ft2]
72.00	2.0100	87556
73.00	2.1800	94961
74.00	2.3500	102366
75.00	3.3800	147233
76.10	3.7400	162914

Comment: 72 2.05
73 2.21
74 2.37
75 2.54

Node: POND B (DRY)

Scenario: post development
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 74.00 ft
Warning Stage: 74.00 ft

Stage [ft]	Area [ac]	Area [ft2]
73.00	0.5300	23087
74.00	0.6900	30056

Comment:

Weir Link: AP OVERFLOW 1

Scenario: post development
From Node: ASHTON PARK
To Node: POND (LILLIAN LEE)
Link Count: 1
Flow Direction: Both
Damping: 0.0000 ft
Weir Type: Sharp Crested Vertical
Geometry Type: Rectangular
Invert: 74.00 ft
Control Elevation: 74.00 ft
Max Depth: 83.25 ft
Max Width: 160.00 ft
Fillet: 0.00 ft

Bottom Clip

Default: 0.00 ft
Op Table:
Ref Node:

Top Clip

Default: 0.00 ft
Op Table:
Ref Node:

Discharge Coefficients

Weir Default: 3.000
Weir Table:
Orifice Default: 0.600
Orifice Table:

Comment: CONVERTED

Weir Link: AP OVERFLOW 2

Scenario:	post development
From Node:	ASHTON PARK
To Node:	DS-6
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	74.00 ft
Control Elevation:	74.00 ft
Max Depth:	83.25 ft
Max Width:	200.00 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment: CONVERTED

Weir Link: AP OVERFLOW 3

Scenario:	post development
From Node:	ASHTON PARK
To Node:	OUTFALL(TW)
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	74.00 ft
Control Elevation:	74.00 ft
Max Depth:	83.25 ft
Max Width:	400.00 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment: CONVERTED

Drop Structure Link: ASHTON CS-1

Scenario:	post development
From Node:	ASHTON PARK
To Node:	DS-11
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0000 ft
Length:	85.00 ft
FHWA Code:	1
Entr Loss Coef:	0.50
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe

Invert:	65.50 ft
Manning's N:	0.0120

Geometry: Circular

Max Depth:	2.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe

Invert:	65.12 ft
Manning's N:	0.0120

Geometry: Circular

Max Depth:	2.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Pipe Comment:

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	71.63 ft
Control Elevation:	71.63 ft
Max Depth:	0.35 ft
Max Width:	8.00 ft
Fillet:	0.00 ft

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: CONVERTED

Weir Component

Weir:	2
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Horizontal
Geometry Type:	Rectangular
Invert:	73.50 ft
Control Elevation:	73.50 ft
Max Depth:	3.08 ft
Max Width:	4.08 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: CONVERTED

Drop Structure Comment:

Drop Structure Link: CS-1 (LILLIAN LEE)

Scenario:	post development
From Node:	POND (LILLIAN LEE)
To Node:	DS-3
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0000 ft
Length:	20.00 ft
FHWA Code:	1
Entr Loss Coef:	0.50
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream Pipe

Invert:	67.00 ft
Manning's N:	0.0120

Geometry: Circular

Max Depth:	2.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe

Invert:	66.76 ft
Manning's N:	0.0120

Geometry: Circular

Max Depth:	2.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Pipe Comment: CONVERTED

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Horizontal
Geometry Type:	Rectangular
Invert:	73.50 ft
Control Elevation:	73.50 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Max Depth:	3.00 ft
Max Width:	6.58 ft
Fillet:	0.00 ft

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: CONVERTED

Weir Component

Weir:	2
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Circular
Invert:	69.50 ft
Control Elevation:	69.50 ft
Max Depth:	0.29 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: CONVERTED

Weir Component

Weir:	3
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	70.96 ft
Control Elevation:	70.96 ft
Max Depth:	0.17 ft
Max Width:	2.50 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: CONVERTED

Drop Structure Comment:

Drop Structure Link: DS-A

Scenario:	post development
From Node:	POND A (WET)
To Node:	DS-15
Link Count:	1
Flow Direction:	Both
Solution:	Combine
Increments:	0
Pipe Count:	1
Damping:	0.0000 ft
Length:	350.00 ft
FHWA Code:	0
Entr Loss Coef:	0.50
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec

Upstream Pipe

Invert:	71.80 ft
Manning's N:	0.0120

Geometry: Circular

Max Depth:	2.50 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Downstream Pipe

Invert:	70.00 ft
Manning's N:	0.0120

Geometry: Circular

Max Depth:	2.50 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	
Manning's N:	0.0000

Energy Switch: Energy

Pipe Comment:

Weir Component

Weir:	1
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Circular
Invert:	72.00 ft
Control Elevation:	72.00 ft
Max Depth:	0.50 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Weir Component

Weir:	2
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Horizontal
Geometry Type:	Rectangular
Invert:	74.65 ft
Control Elevation:	74.65 ft
Max Depth:	4.50 ft
Max Width:	3.00 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment: Type E inlet
4.5
73 invert. depth 3

Weir Component

Weir:	3
Weir Count:	1
Weir Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	74.00 ft
Control Elevation:	74.00 ft
Max Depth:	0.65 ft
Max Width:	4.20 ft
Fillet:	0.00 ft

Bottom Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Top Clip

Default:	0.00 ft
Op Table:	
Ref Node:	

Discharge Coefficients

Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Weir Comment:

Drop Structure Comment:

Weir Link: EXCHANGE APARTMENT OVERFLOW

Scenario:	post development
From Node:	POND B (DRY)

Bottom Clip

Default:	0.00 ft

To Node:	POND A (WET)
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Trapezoidal
Invert:	74.00 ft
Control Elevation:	74.00 ft
Max Depth:	9999.00 ft
Extrapolation Method:	Normal Projection
Bottom Width:	36.00 ft
Left Slope:	4.000 (h:v)
Right Slope:	4.000 (h:v)

Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	2.800
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment:

Weir Link: East Offsite

Scenario:	post development
From Node:	East Offsite
To Node:	DS-13
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Trapezoidal
Invert:	68.20 ft
Control Elevation:	68.20 ft
Max Depth:	9999.00 ft
Extrapolation Method:	Normal Projection
Bottom Width:	0.00 ft
Left Slope:	300.000 (h:v)
Right Slope:	230.000 (h:v)

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment: CONVERTED

Channel Link: East Swale

Scenario:	post development
From Node:	DS-12
To Node:	DS-13
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Length:	345.00 ft
Contraction Coef:	0.10
Expansion Coef:	0.30
Entr Loss Coef:	0.00
Exit Loss Coef:	0.00
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Upstream		Downstream	
Invert:	70.00 ft	Invert:	68.00 ft
Manning's N:	0.0000	Manning's N:	0.0000
Geometry: Irregular		Geometry: Irregular	
Cross Section:	East Swale 2	Cross Section:	East Swale 1

Comment: CONVERTED

Pipe Link: Exist Culvert

Scenario:	post development
From Node:	DS-1

Upstream		Downstream	
Invert:	63.50 ft	Invert:	63.61 ft
Manning's N:	0.0240	Manning's N:	0.0240

To Node:	OUTFALL(TW)
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Length:	84.00 ft
FHWA Code:	1
Entr Loss Coef:	0.20
Exit Loss Coef:	0.50
Bend Loss Coef:	0.00
Bend Location:	0.00 dec
Energy Switch:	Energy

Geometry: Circular		Geometry: Circular	
Max Depth:	2.00 ft	Max Depth:	2.00 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000
Top Clip			
Default:	0.00 ft	Default:	0.00 ft
Op Table:		Op Table:	
Ref Node:		Ref Node:	
Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Weir Link: Lillian Lee Rd

Scenario:	post development
From Node:	DS-1
To Node:	OUTFALL(TW)
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Paved Road Vertical
Geometry Type:	Rectangular
Invert:	70.90 ft
Control Elevation:	70.90 ft
Max Depth:	83.25 ft
Max Width:	100.00 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment: CONVERTED

Weir Link: NORTH OFF SITE

Scenario:	post development
From Node:	NORTH OFFSITE
To Node:	DS-6
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft
Weir Type:	Sharp Crested Vertical
Geometry Type:	Rectangular
Invert:	71.00 ft
Control Elevation:	71.00 ft
Max Depth:	1.00 ft
Max Width:	200.00 ft
Fillet:	0.00 ft

Bottom Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Top Clip	
Default:	0.00 ft
Op Table:	
Ref Node:	
Discharge Coefficients	
Weir Default:	3.200
Weir Table:	
Orifice Default:	0.600
Orifice Table:	

Comment: CONVERTED

Pipe Link: P1

Scenario:	post development
From Node:	DS-2
To Node:	DS-1
Link Count:	1
Flow Direction:	Both
Damping:	0.0000 ft

Upstream		Downstream	
Invert:	63.64 ft	Invert:	63.50 ft
Manning's N:	0.0120	Manning's N:	0.0120
Geometry: Circular		**Geometry: Circular**	
Max Depth:	4.00 ft	Max Depth:	4.00 ft
Bottom Clip			
Default:	0.00 ft	Default:	0.00 ft

Length:	288.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P10		Upstream		Downstream	
Scenario:	post development	Invert:	63.74 ft	Invert:	63.70 ft
From Node:	DS-9	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-2	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	8.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P11		Upstream		Downstream	
Scenario:	post development	Invert:	63.58 ft	Invert:	63.50 ft
From Node:	DS-12	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-1	Geometry: Circular		Geometry: Circular	
Link Count:	2	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	69.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P12		Upstream		Downstream	
Scenario:	post development	Invert:	63.76 ft	Invert:	63.58 ft
From Node:	DS-13	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-12	Geometry: Circular		Geometry: Circular	
Link Count:	2	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	345.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	

Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P13		Upstream		Downstream	
Scenario:	post development	Invert:	65.56 ft	Invert:	64.76 ft
From Node:	DS-32	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-13	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.00 ft	Max Depth:	3.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	400.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P13A		Upstream		Downstream	
Scenario:	post development	Invert:	69.39 ft	Invert:	65.56 ft
From Node:	DS-14	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-32	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.50 ft	Max Depth:	2.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	465.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P14		Upstream		Downstream	
Scenario:	post development	Invert:	69.69 ft	Invert:	69.39 ft
From Node:	DS-15	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-14	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.50 ft	Max Depth:	2.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	150.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			

		Upstream		Downstream	
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P15		Upstream		Downstream	
Scenario:	post development	Invert:	62.76 ft	Invert:	62.50 ft
From Node:	DS-20	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	POND (LILLIAN LEE)	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Positive	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	130.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.70	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P16		Upstream		Downstream	
Scenario:	post development	Invert:	63.14 ft	Invert:	62.76 ft
From Node:	DS-21	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-20	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	190.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P17		Upstream		Downstream	
Scenario:	post development	Invert:	64.52 ft	Invert:	64.39 ft
From Node:	DS-22	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-21	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.25 ft	Max Depth:	1.25 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	25.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	

Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P18

		Upstream		Downstream	
Scenario:	post development	Invert:	63.80 ft	Invert:	63.14 ft
From Node:	DS-23	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-21	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	265.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P19

		Upstream		Downstream	
Scenario:	post development	Invert:	64.18 ft	Invert:	64.05 ft
From Node:	DS-24	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-23	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	25.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P2

		Upstream		Downstream	
Scenario:	post development	Invert:	63.80 ft	Invert:	63.66 ft
From Node:	DS-3	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-2A	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	141.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P20		Upstream		Downstream	
Scenario:	post development	Invert:	67.70 ft	Invert:	67.50 ft
From Node:	DS-17	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	POND (LILLIAN LEE)	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	1.25 ft	Max Depth:	1.25 ft
Flow Direction:	Positive	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	40.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.70	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P21		Upstream		Downstream	
Scenario:	post development	Invert:	67.83 ft	Invert:	67.70 ft
From Node:	DS-18	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-17	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	1.25 ft	Max Depth:	1.25 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	25.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P22		Upstream		Downstream	
Scenario:	post development	Invert:	65.60 ft	Invert:	63.20 ft
From Node:	DS-26	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	POND (LILLIAN LEE)	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	2.50 ft	Max Depth:	2.50 ft
Flow Direction:	Positive	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	80.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.70	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P23		Upstream		Downstream	
Scenario:	post development	Invert:	66.92 ft	Invert:	66.39 ft
From Node:	DS-28	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-26	Geometry:	Horizontal Ellipse	Geometry:	Horizontal Ellipse
Link Count:	1	Max Depth:	1.58 ft	Max Depth:	1.58 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	265.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P24		Upstream		Downstream	
Scenario:	post development	Invert:	67.45 ft	Invert:	67.32 ft
From Node:	DS-27	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-28	Geometry:	Circular	Geometry:	Circular
Link Count:	1	Max Depth:	1.25 ft	Max Depth:	1.25 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	25.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P25		Upstream		Downstream	
Scenario:	post development	Invert:	67.58 ft	Invert:	66.92 ft
From Node:	DS-30	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-28	Geometry:	Horizontal Ellipse	Geometry:	Horizontal Ellipse
Link Count:	1	Max Depth:	1.58 ft	Max Depth:	1.58 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	265.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P26		Upstream		Downstream	
Scenario:	post development	Invert:	68.12 ft	Invert:	67.99 ft

From Node:	DS-29	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-30	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	1.17 ft	Max Depth:	1.17 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	25.00 ft	Op Table:		Op Table:	
FHWA Code:	30	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0130	Manning's N:	0.0130
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0130	Manning's N:	0.0130

Comment: CONVERTED

Pipe Link: P27		Upstream		Downstream	
Scenario:	post development	Invert:	68.70 ft	Invert:	68.32 ft
From Node:	DS-31	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-29	Geometry: Horizontal Ellipse		Geometry: Horizontal Ellipse	
Link Count:	1	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	150.00 ft	Op Table:		Op Table:	
FHWA Code:	30	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0130	Manning's N:	0.0130
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0130	Manning's N:	0.0130

Comment: CONVERTED

Pipe Link: P28		Upstream		Downstream	
Scenario:	post development	Invert:	68.36 ft	Invert:	67.99 ft
From Node:	DS-34	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-30	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	74.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0120	Manning's N:	0.0120
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0120	Manning's N:	0.0120

Comment: CONVERTED

Pipe Link: P29		Upstream		Downstream	
Scenario:	post development	Invert:	67.69 ft	Invert:	67.32 ft
From Node:	DS-35	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-28	Geometry: Circular		Geometry: Circular	

Link Count:	1	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	74.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P2A		Upstream		Downstream	
Scenario:	post development	Invert:	63.66 ft	Invert:	63.64 ft
From Node:	DS-2A	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-2	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	4.00 ft	Max Depth:	4.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	23.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P3		Upstream		Downstream	
Scenario:	post development	Invert:	64.10 ft	Invert:	63.95 ft
From Node:	DS-4	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-3	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.50 ft	Max Depth:	3.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	150.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P30		Upstream		Downstream	
Scenario:	post development	Invert:	67.65 ft	Invert:	67.28 ft
From Node:	DS-36	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-23	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both	Bottom Clip			

		Upstream		Downstream	
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	74.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P31

		Upstream		Downstream	
Scenario:	post development	Invert:	67.17 ft	Invert:	66.80 ft
From Node:	DS-37	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-21	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	74.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.00	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	1.00	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P32

		Upstream		Downstream	
Scenario:	post development	Invert:	66.85 ft	Invert:	66.72 ft
From Node:	DS-33	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	DS-26	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.25 ft	Max Depth:	1.25 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	25.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P4

		Upstream		Downstream	
Scenario:	post development	Invert:	64.41 ft	Invert:	64.10 ft
From Node:	DS-5	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-4	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.50 ft	Max Depth:	3.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	320.00 ft	Op Table:		Op Table:	

FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P5		Upstream		Downstream	
Scenario:	post development	Invert:	64.70 ft	Invert:	64.66 ft
From Node:	DS-6	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-5	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	3.50 ft	Max Depth:	3.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	8.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.20	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P8		Upstream		Downstream	
Scenario:	post development	Invert:	64.12 ft	Invert:	63.74 ft
From Node:	DS-11	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-9	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	2.50 ft	Max Depth:	2.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	378.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000
Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Pipe Link: P8A		Upstream		Downstream	
Scenario:	post development	Invert:	67.00 ft	Invert:	66.86 ft
From Node:	DS-11A	Manning's N:	0.0120	Manning's N:	0.0120
To Node:	DS-11	Geometry: Circular		Geometry: Circular	
Link Count:	1	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Flow Direction:	Both	Bottom Clip			
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	28.00 ft	Op Table:		Op Table:	
FHWA Code:	1	Ref Node:		Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N:	0.0000

Exit Loss Coef:	0.50	Top Clip			
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	
Energy Switch:	Energy	Ref Node:		Ref Node:	
		Manning's N:	0.0000	Manning's N:	0.0000

Comment: CONVERTED

Percolation Link: PERC LINK 1

Scenario:	post development	Surface Area Option:	Vary Based on Stage/Area Table
From Node:	POND B (DRY)	Vertical Flow Termination:	Horizontal Flow Algorithm
To Node:	GROUND	Perimeter 1:	1715.00 ft
Link Count:	1	Perimeter 2:	2029.00 ft
Flow Direction:	Both	Perimeter 3:	2655.00 ft
Aquifer Base Elevation:	65.00 ft	Distance P1 to P2:	50.00 ft
Water Table Elevation:	71.70 ft	Distance P2 to P3:	100.00 ft
Annual Recharge Rate:	0 ipy	# of Cells P1 to P2:	10
Horizontal Conductivity:	5.900 fpd	# of Cells P2 to P3:	10
Vertical Conductivity:	5.900 fpd		
Fillable Porosity:	0.300		
Layer Thickness:	1.30 ft		

Comment:

Simulation: 10y72h

Scenario: post development
Run Date/Time: 1/9/2023 7:58:47 AM
Program Version: ICPR4 4.07.08

General

Run Mode: Normal

	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	72.0000

	Hydrology [sec]	Surface Hydraulics [sec]
Min Calculation Time:	60.0000	0.1000
Max Calculation Time:		60.0000

Output Time Increments

Hydrology

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000
0	0	0	50.0000	15.0000
0	0	0	65.0000	60.0000

Surface Hydraulics

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	60.0000
0	0	0	50.0000	15.0000
0	0	0	300.0000	60.0000

Restart File

Save Restart: False

Resources & Lookup Tables

Resources

Rainfall Folder: ICPR3

Unit Hydrograph Folder: ICPR3

Lookup Tables

Boundary Stage Set: 10yr72hr
Extern Hydrograph Set:
Curve Number Set:
Green-Ampt Set:
Vertical Layers Set:
Impervious Set:

Tolerances & Options

Time Marching: SAOR
Max Iterations: 6
Over-Relax Weight Fact: 0.5 dec
dZ Tolerance: 0.0010 ft
Max dZ: 1.0000 ft
Link Optimizer Tol: 0.0001 ft

Edge Length Option: Automatic

IA Recovery Time: 72.0000 hr

Smp/Man Basin Rain Opt: No Rainfall

Dflt Damping (1D): 0.0050 ft
Min Node Srf Area (1D): 100 ft2
Energy Switch (1D): Energy

Comment: