

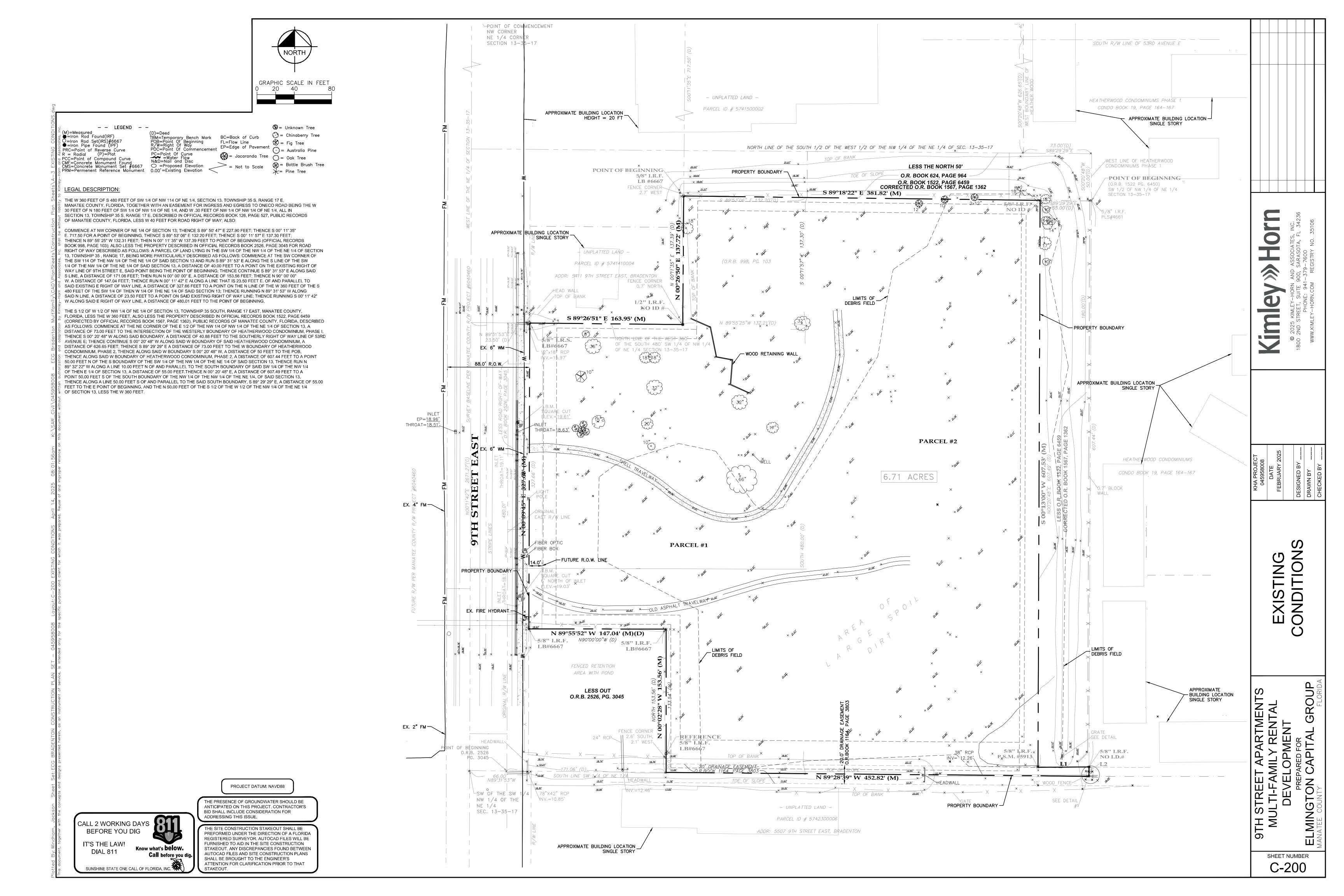
Appendix A Tax Map	↑ N	DOMINION DUE DILIGENCE GROUP



Appendix A Site Topographic Map	↑ N	DOMINION DUE DILIGENCE GROUP

Appendix A Site Locator Map	↑ N	DOMINION DUE DILIGENCE GROUP

Appendix A Site Plan	↑ N	DOMINION DUE DILIGENCE GROUP



THE W 360 FEET OF S 480 FEET OF SW 1/4 OF NW 1/4 OF NE 1/4, SECTION 13, TOWNSHIP 35 S, RANGE 17 E, MANATEE COUNTY, FLORIDA, TOGETHER WITH AN

EASEMENT FOR INGRESS AND EGRESS TO ONECO ROAD BEING THE W 30 FEET OF N 180 FEET OF SW 1/4 OF NW 1/4 OF NE 1/4, AND W 30 FEET OF NW 1/4 OF NW 1/4

OF NE 1/4, ALL IN SECTION 13, TOWNSHIP 35 S, RANGE 17 E, DESCRIBED IN OFFICIAL RECORDS BOOK 126, PAGE 527, PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA,

LESS W 40 FEET FOR ROAD RIGHT OF WAY; ALSO: COMMENCE AT NW CORNER OF NE 1/4 OF SECTION 13; THEN S89'50'47" E 227.90 FEET; THENCE S00'11'35" E 717.50

– LEGEND 🐼 = Unknown Tree BC=Back of Curb FL=Flow Line

(M)=Measured ●=Iron Rod Found(IRF) =Iron Rod Set(IRS)#666 =Iron Pipe Found (IPF) PRC=Point of Reverse Curve PC=Point Of Curve =Water Flow N&D=Nail and Disc

R/W=Right Of Way
POC=Point Of Commencement

EP=Edge of Pavement $\{\widetilde{\cdot}\}$ = Australia Pine

- THE INTENT OF THE DEMOLITION PLAN IS TO DEPICT ALL EXISTING FEATURES THAT ENCUMBER THE PROPOSED CONSTRUCTION AREA AND ARE SCHEDULED FOR REMOVAL. SOME INCIDENTAL ITEMS MAY HAVE BEEN INADVERTENTLY OMITTED FROM THE PLAN. THE WELL AS REVIEW THE PLANS AND SPECIFICATION PRIOR TO SUBMITTING PRICING. CONTRACTOR WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR INCIDENTAL ITEMS NOT SHOWN ON THIS DEMOLITION PLAN.
- AND MAY OR MAY NOT BE ALL INCLUSIVE FOR THIS SITE. ANY UTILITIES ENCOUNTERED DURING DEMOLITION THAT ARE NOT DEPICTED/ADDRESSED ON THIS DRAWING SHOULD BE BROUGHT TO
- 3. CONTRACTOR IS REQUIRED TO OBTAIN ALL DEMOLITION PERMITS.
- 4. ALL FEATURES IDENTIFIED ON THIS PLAN WHICH ARE LISTED TO BE
- 5. CONTRACTOR SHALL LIMIT ALL DEMOLITION ACTIVITIES TO THOSE AREAS DELINEATED ON THE CONSTRUCTION DRAWINGS UNLESS OTHERWISE DIRECTED BY THE DEVELOPER OR AS REQUIRED FOR
- CONTRACTOR IS RESPONSIBLE FOR CONTROLLING AIRBORNE DUST AND POLLUTANTS BY USING WATER SPRINKLING OR OTHER SUITABLE
- 7. CONTRACTOR TO USE CARE IN HANDLING DEBRIS FROM SITE TO ENSURE THE SAFETY OF THE PUBLIC. HAUL ROUTE TO BE CLOSELY MONITORED FOR DEBRIS OR MATERIALS TRACKED ONTO ADJOINING ROADWAYS, SIDEWALKS, ETC. ROADWAYS AND WALKWAYS TO BE CLEARED DAILY OR AS NECESSARY TO MAINTAIN PUBLIC SAFETY.
- 8. INGRESS AND EGRESS, AS WELL AS SUFFICIENT PARKING SHALL BE A DAY, SEVEN DAYS A WEEK, THROUGHOUT ALL PHASES OF
- 9. CONTRACTOR TO COORDINATE WITH ALL UTILITY OWNERS PRIOR TO DEMOLITION TO ENSURE SERVICES TO THE EXISTING BUILDING(S) HAVE
- 10. CONTRACTOR TO DISCONNECT WATER SERVICE TO BUILDING AT CUSTOMER SIDE OF BACKFLOW DEVICE AND INSTALL HOSE BIB FOR
- 11. DEWATERING SHOULD BE ANTICIPATED AND INCLUDED IN CONTRACTORS BID.
- REMAINING IMPROVEMENTS.
- PROTECTION.

DEMOLITION NOTES

- CONTRACTOR IS ENCOURAGED TO THOROUGHLY INSPECT THE SITE AS
- 2. THE DEMOLITION PLAN IS BASED ON AVAILABLE UTILITY INFORMATION THE ATTENTION OF THE PROJECT ENGINEER IMMEDIATELY.
- DEMOLISHED ARE TO BE REMOVED FROM THE SITE. AFTER DEMOLITION IS COMPLETE THE SITE SHALL BE DELIVERED IN A CONDITION SUITABLE FOR DEVELOPMENT.
- CONSTRUCTION OF IMPROVEMENTS.
- MEANS OF CONTROL.
- MAINTAINED FOR ALL REMAINING BUSINESSES, TWENTY-FOUR HOURS CONSTRUCTION.
- BEEN DISCONNECTED.
- CONSTRUCTION WATER.
- 12. ALL ASPHALT TO BE REMOVED SHALL BE SAW-CUT ADJACENT TO
- 13. SEE LANDSCAPE PLAN FOR TREE REMOVAL/RELOCATING AND TREE
- 14. SEE LEGEND FOR ADDITIONAL INFORMATION.

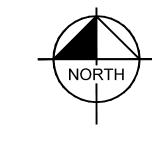
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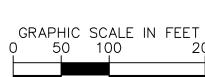
ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE. PREFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN

PROJECT DATUM: NAVD88

THE PRESENCE OF GROUNDWATER SHOULD BE

Know what's **below.** AUTOCAD FILES AND SITE CONSTRUCTION PLANS Call before you dig SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO THAT SUNSHINE STATE ONE CALL OF FLORIDA. INC.





53RD AVE E HEATHERWOOD ZONING: PD-R FUTURE LAND USE: RES-16 WINN-DIXIE ZONING: PD-C FUTURE LAND USE: RES-16 PALM LAKE ESTATES
ZONING: RSMH-6
UTURE LAND USE: RES-9 ZONING: RSF-4.5 FUTURE LAND USE: RES-9 TROPICAL GARDENS
TRAVEL PARK
ZONING: PD-R
FUTURE LAND USE: RES-16 FUTURE R.O.W. LINED WET DETENTION POND 15.0'
LANDSCAPE
BUFFER A&A AUTO RECYCLING ZONING: RVP FUTURE LAND USE: RES-16

PROJECT DATUM: NAVD88

CALL 2 WORKING DAYS BEFORE YOU DIG

IT'S THE LAW! Know what's **below. DIAL** 811 Call before you dig.

SUNSHINE STATE ONE CALL OF FLORIDA, INC.

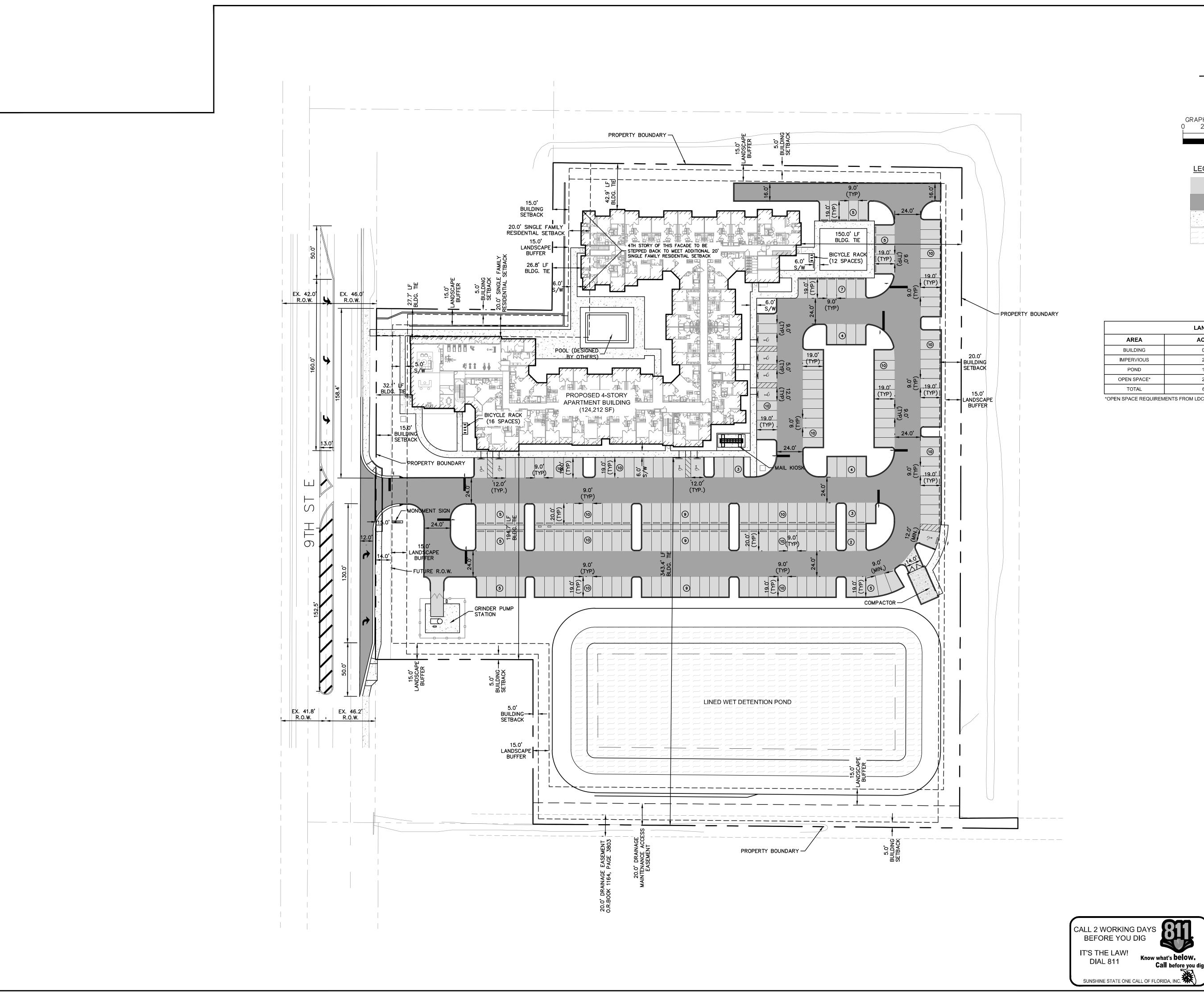
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SHEET NUMBER C-300

D

S

AERIAL





GRAPHIC SCALE IN FEET O 20 40 80

<u>LEGEND</u>

STANDARD DUTY ASPHALT

HEAVY DUTY ASPHALT CONCRETE PAVEMENT

WATER SURFACE

LAND USE TABLE **ACRES** PERCENTAGE 0.94 14.0 2.32 34.6 1.03 15.4 2.42 36.0 6.71 100

*OPEN SPACE REQUIREMENTS FROM LDC 401.4 (TABLE 4.6) REQUIRED OPEN SPACE = 20.0% (1.34 AC)

S

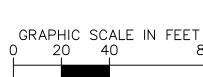
BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE. PREFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILES WILL BE REGISTERED SURVEYOR, AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN AUTOCAD FILES AND SITE CONSTRUCTION PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO THAT STAKEOUT.

PROJECT DATUM: NAVD88

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S

SHEET NUMBER C-301





<u>LEGEND</u>

CONCRETE PAVEMENT WATER SURFACE

INLET & PIPE STORM SEWER

MAJOR BASIN LINES MINOR BASIN LINES SURFACE WATER FLOW

CONTROL WATER LEVEL

EXISTING GRADE MATCH EXISTING ELEVATION

HIGH POINT

T.O.W. TOP OF WALL

NOTES:

- 1. ELEVATIONS ARE BASED ON NAVD 88.
- A. PAVED: RCP OR HP B. UNPAVED: HDPE, HP, OR RCP
- 5. ALL CURB RAMPS (CR) SHALL BE CONSTRUCTED WITH TACTILE SURFACES. SEE DÈTAILS PER F.D.O.T. INDEX NO. 522-002.

CONTROL WATER LEVEL

TOB TOP OF BANK 10.39 PROPOSED PAVEMENT ELEVATION X 10.8 EXISTING GROUND ELEVATION

10.4 PROPOSED GROUND ELEVATION

LOW POINT CS CONTROL STRUCTURE

PROPERTY BOUNDARY

DAYLIGHT LINE

DAYLIGHT LINE

YD-2-\

PROPERTY BOUNDARY

LINED WET DETENTION POND TOB = 21.0' CWL = 17.5' BOTTOM = 9.5' 25 YR = 19.20' 100 YR = 19.52'

- PROPERTY BOUNDARY

- DAYLIGHT LINE

PROPOSED 4-STORY

- DAYLIGHT LINE

DAYLIGHT LINE -

 \bigcirc

PROPERTY

- CONVERSION TO NGVD '29 = + 0.96 FT.
- 2. ALL FACE OF CURB RADII ARE 3', UNLESS OTHERWISE NOTED.
- SPOT GRADES ARE AT EDGE OF PAVEMENT ADJACENT TO CURB UNLESS OTHERWISE NOTED.
- 4. STORM PIPING MATERIAL AND INSTALLATION SHALL BE PER STATE AND FDOT SPECIFICATION FOR THE APPLICATION SPECIFIED.
- 6. ALL FDOT STRUCTURES SHALL BE PER THE APPLICABLE FDOT INDEX. STRUCTURE BOTTOMS SIZES SHALL BE ADJUSTED TO APPROPRIATE SIZE BASED ON PIPE SIZE / ORIENTATION PER FDOT INDEX 425-010. STORM MANHOLE RISERS PER FDOT INDEX 425-001
- 7. ALL STORM CONTROL STRUCTURE INFORMATION. SEE SHEET C-504, AND C-506.

8. STORM POND IS TO BE CONSTRUCTED TO PLAN SPECIFICATIONS AND ANY DEVIATIONS WILL REQUIRE A PERMIT MODIFICATION FROM SWFWMD.

DRAINA

PROJECT DATUM: NAVD88 THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

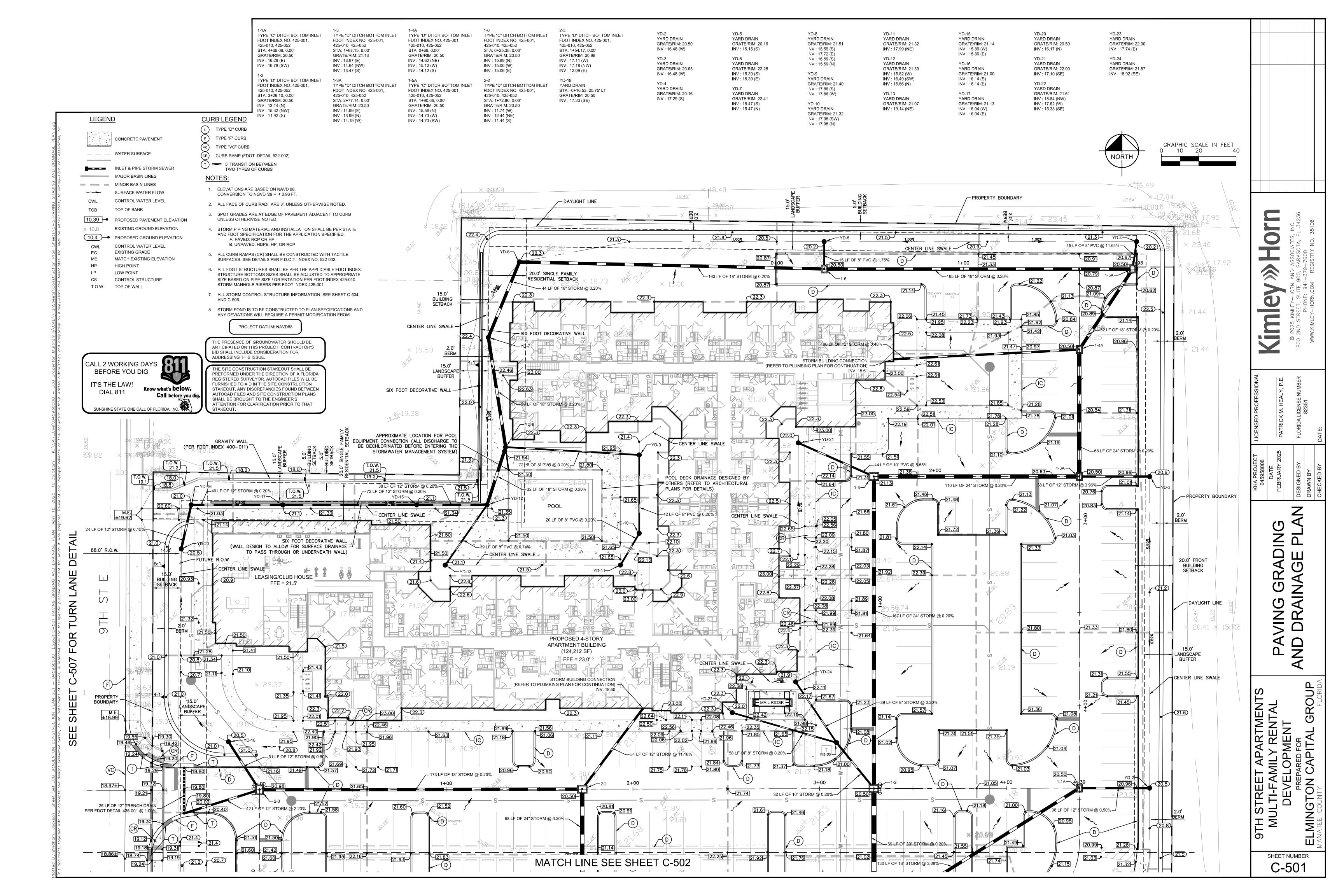
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ATTENTION FOR CLARIFICATION PRIOR TO THAT

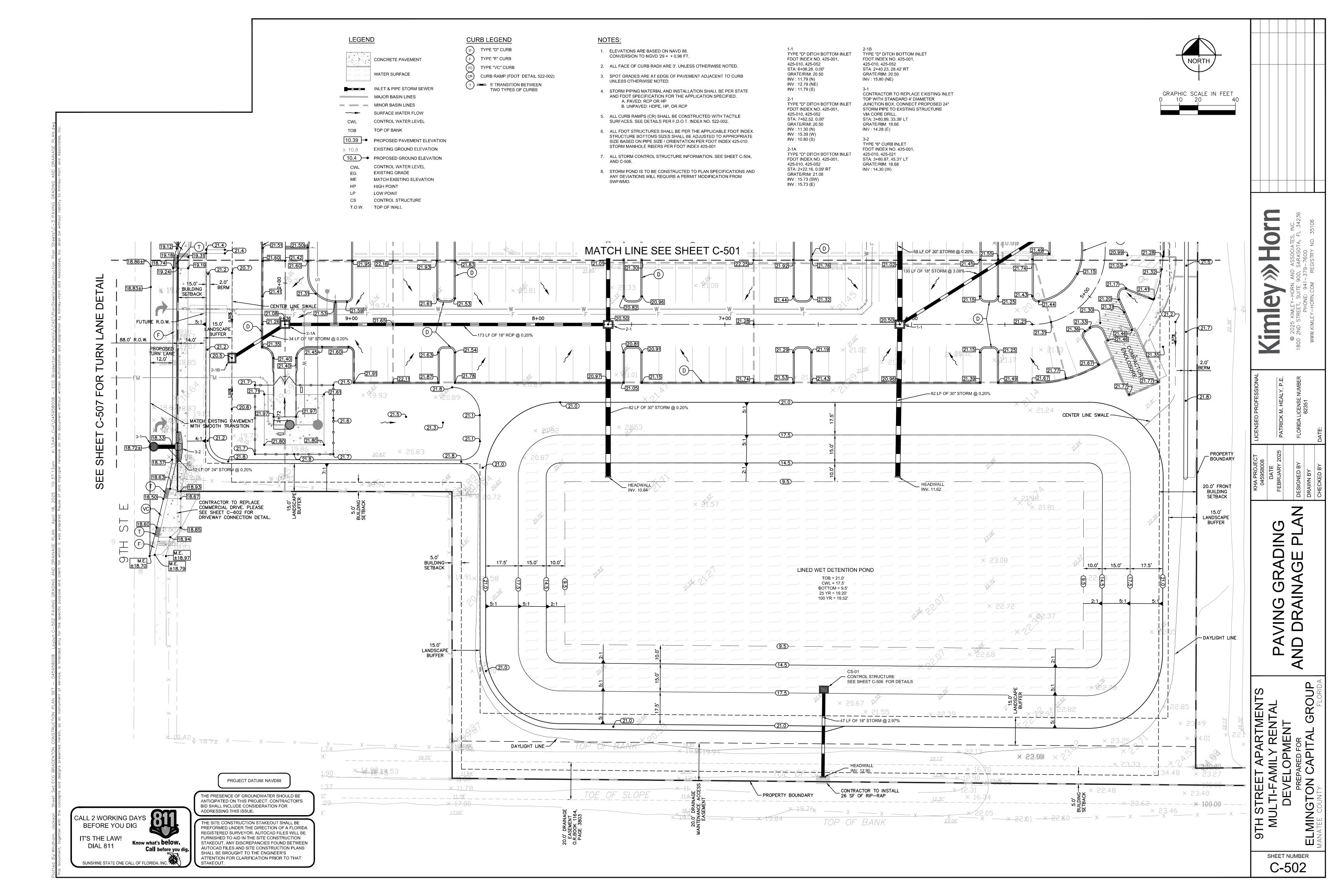
CALL 2 WORKING DAYS BEFORE YOU DIG IT'S THE LAW! **DIAL** 811

Call before you dig.

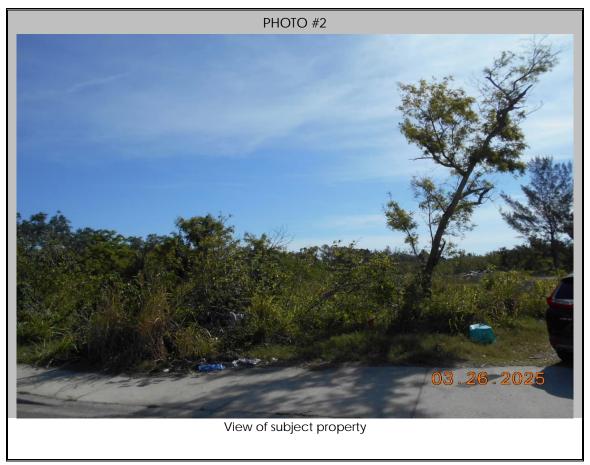
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SHEET NUMBER C-500











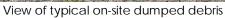




View of typical on-site dumped debris















View of natural gas pipeline marker observed on southwestern portion of subject property



View of natural gas pipeline marker observed on southern portion of subject property



View of natural gas pipeline marker observed on southwestern portion of subject property



View of typical piezometer observed at the subject property



View of riverine feature observed on southern boundary of subject property



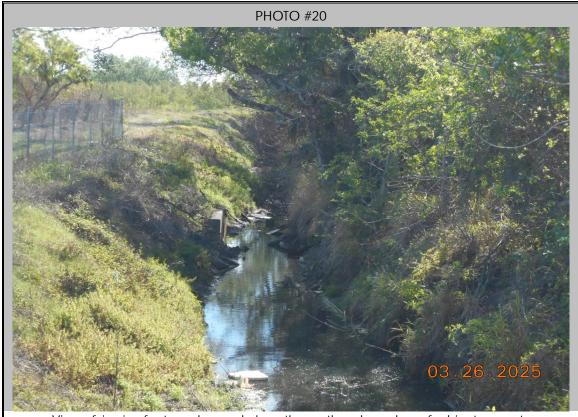
View of northern adjacent single-family residential







View of eastern adjacent Heatherwood Condominiums



View of riverine feature observed along the southern boundary of subject property











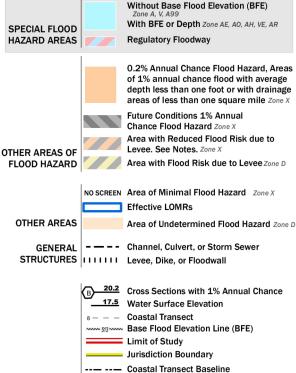
National Flood Hazard Layer FIRMette





Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



MAP PANELS

OTHER

FEATURES

Digital Data Available

No Digital Data Available

an authoritative property location.

Hydrographic Feature

Profile Baseline

Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represent

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 3/27/2025 at 7:40 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Flood Map



User Notes:



This map was developed using the Manatee County Geographic Information System. It is provided for general reference, is subject to change, and is not warranted for any particular use or purpose. The information contained within is derived from several sources of varying quality and accuracy. Errors from non-coincidence of features from different sources may be present. The Manatee County Geographic Information Systems and the Manatee County BOCC do not warrant and are not liable for inappropriate or unintended uses of the information.

NOTES TO USERS

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Coastal Base Flood Elevations shown on this map spirity only instruction of 10 North American Versical Datum of 1980 NAVD 80. Uses of 18 North American Versical Datum of 1980 NAVD 80. Uses of 18 North 19 North

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures.** Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The projection used is the pregaration of this graw was. Puries 5tate
Plans western in PSEZIONE EXPORT
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Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same vertical distunct. For information regarding conversion between the National Goodeleck Vertical Datum of 1929 and the North American Vertical Datum of 1929, with the National Goodeleck Survey with the following actives:

Survey with the following actives:

NGS Information Services NOAA, N/NGS12 National Geodetic Survey SSMC-3, #9202 1315 East-West Highway Silver Spring, MD 20910-3282

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the information Services Branch of the National Geodetic Survey at (301) 713–3242, or visit its website at http://www.ngs.noaa.gov/.

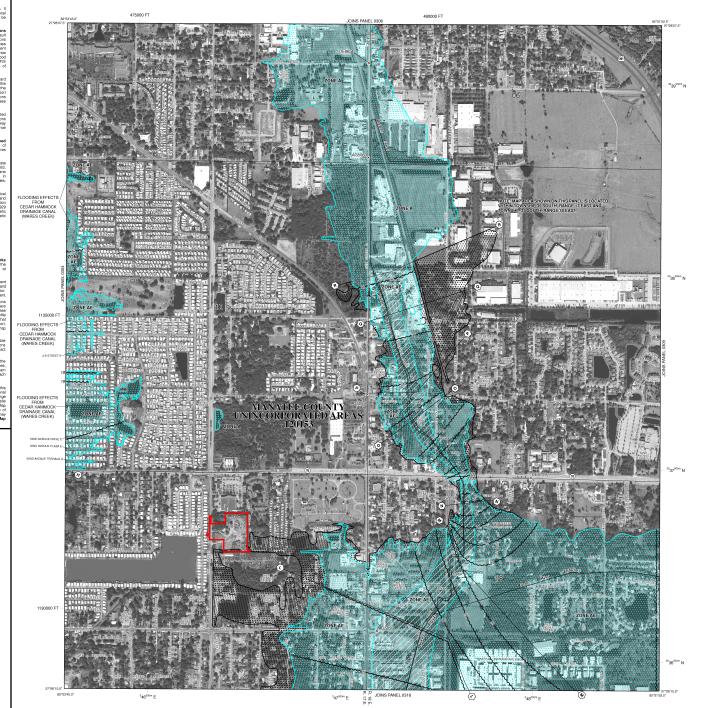
Base map orthophotography was obtained from Southwest Florida Water Management District (SWFWMO) from one-foot resolution digital orthoimagen flown in 2008 and 2009. Metor base map data was provided by Manatee County and SWFWMD. Vector information was compiled in 2003 – 2009 by Manatee County GIS department.

In map may reflect more detailed or up to date stream channel configurations than those alrows on the precision first. The foodpains and foodpains that the product of the foodpains are foodpains and foodpains that were new stream channel configurations and improved topographic data. The profits besselves depicted on this map represent the hydraulic modeling baselines depicted on the map represent the hydraulic modeling baselines that make the food pollete and Foodway Up bat Tablest application, in the FIS report. As a result, the profite baselines may deviate significantly from the new base map channel representation and may appear conducted the brookland.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community difficials to verify current corporate limit locations.

Please refer to the separately printed Map Index for an overview map of the country showing the Islayout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood insurance Program dates for each community as well as a listing of the panels on which each community is located.

For information and partitions about this map, maintake products associated with the IRIM including history among of the IRIM has been strip products in the Material Flood insurance Program in general, pleases call the FEAN Algo information eXtrange in 177-FEANAMP (IRIM 747-356-SECT) on the FEAN Algo information eXtrange at Impulmachema park, whealthe products may include previously seared unline of New at Impulmachema park, whealthe products may include previously seared unline of New these products can be ordered or citations directly from the value liberal has products can be ordered or citations directly from the value. Liberaring determine the current map date for each FEAN panel by unknown part products and the current map date for each FEAN panel by unknown part products and the current map date for each FEAN panel by unknown part products and products and products and products products and products and products and products products



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% amual channel host (104) per flood, is the review as the base flood, is the flood that has a 1% channel of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual thance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A90, V and VE. The Base Flood Bizzard not the water-urface feetation of the 1% annual thance flood.

n at the water-surroce servation of the 1% annual chance mood.

No Base Flood Elevation determined.

Base Flood Elevations determined.

Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); overage depths determined. For areas of alluvial fan flooding, velocities also determined.

Coastal flood zone with velocity hazard (wave action); Base Flood Bevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be lept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

**** OTHER FLOOD AREAS

Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood. ZONE X

OTHER AREAS

Areas determined to be outside the 0.2% annual chance floodplain. ZONE D Areas in which flood hazards are undetermined, but possible

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas

1% annual chance floodplain boundary 0.2% annual chance floodplain boundary

 Boundary dividing Special Flood Hazard Areas of different Base Flood Blevations, flood depths or flood velocities. ----- 513 ----- Base Flood Elevation line and value; elevation in feet*

(EL 987) * Referenced to the North American Vertical Datum of 1988 (NAVD 88)

-(A)

23-----23 Transect line

(A)-

97'07'30', 82'22'30' Geographic coordinates referenced to the North American Datum of 1963 (NAD 83) 1000-meter Universal Transverse Mercator grid ticks, zone 17

5000-foot grid ticks: Florida State Plane coordinate system, west zone (FIPSZONE 0902), Transverse Mercator 6000000 FT

River Mile

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP March 17, 2014 EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction. To determine if flood insurance is available in this community, contact your insigent or call the National Flood Insurance Program at 1-800-638-6620.

4

MAP SCALE 1" = 500' 250 0 500 1000 FFFT METERS 300

PANEL 0308E

FIRM FLOOD INSURANCE RATE MAP

MANATEE COUNTY. FLORIDA

AND INCORPORATED AREAS

PANEL 308 OF 575

(SEE MAP INDEX FOR FIRM PANEL LAYOUT) CONTAINS



MAP NUMBER 12081C0308E EFFECTIVE DATE MARCH 17, 2014

Federal Emergency Management Agency



Navigation

Search

MSC Home (/portal/)

MSC Search by Address (/portal/search)

MSC Search All Products (/portal/advanceSearch)

 MSC Products and Tools (/portal/resources/productsandtools)

Hazus (/portal/resources/hazus)

LOMC Batch Files (/portal/resources/lomc)

Product Availability (/portal/productAvailability)

MSC Frequently Asked Questions (FAQs) (/portal/resources/faq)

MSC Email Subscriptions (/portal/subscriptionHome)

Contact MSC Help (/portal/resources/contact

FEMA Flood Map Service Center: Search All Products

Choose one of the three search options below and optionally enter a posting date range.

Jurisdiction

State

-- Select -
Jurisdiction Name

Jurisdiction Name or FEMA ID

MANATEE COUNTY UNINCORPORATED AREAS

(Ex. Fairfax County-wide or 51059C)

Product ID

Product ID

(Ex. Panel Number, LOMC Case Number)

Filter By Posting Date Range (Optional)

Search Results for MANATEE COUNTY UNINCORPORATED AREAS

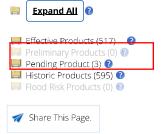
Click subscribe to receive email notifications when products are updated.

Click to download a listing of all products. ?

Clear All Fields

If you are a person with a disability, are blind, or have low vision, and need assistance, please contact a <u>map specialist</u> (https://msc.fema.gov/portal/resources/contact).

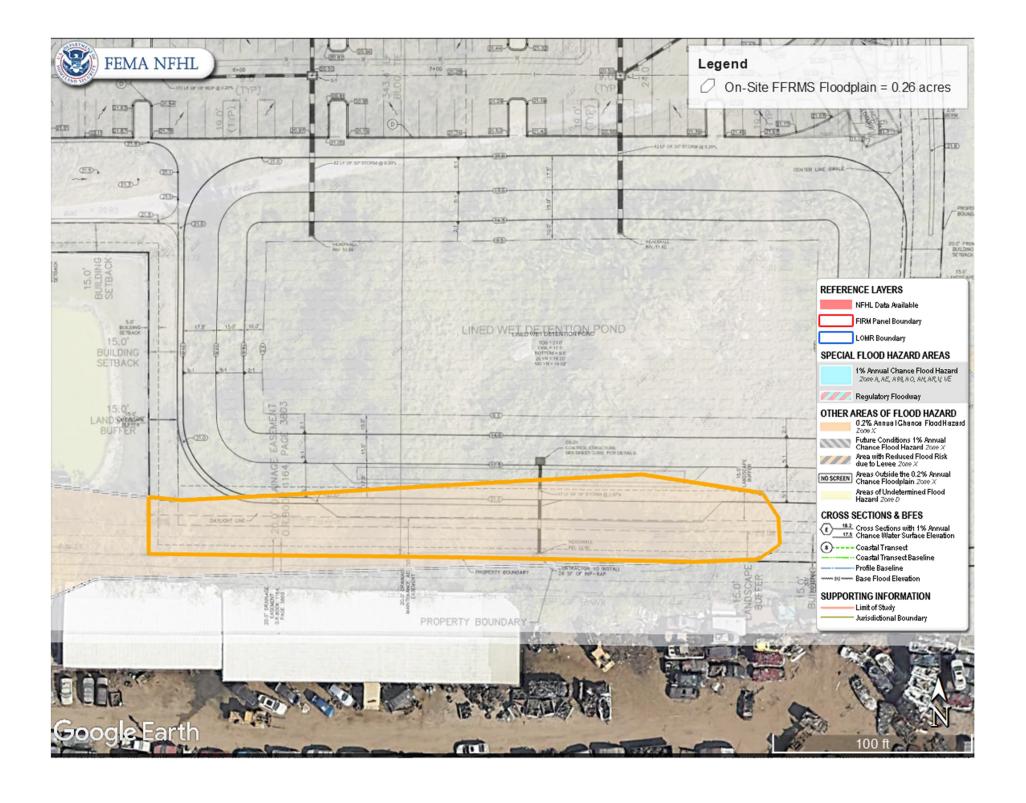
Please Note: Searching All Products by county displays all products for all communities within the county. You can refine your search results by specifying your specific jurisdiction location using the drop-down menus above.

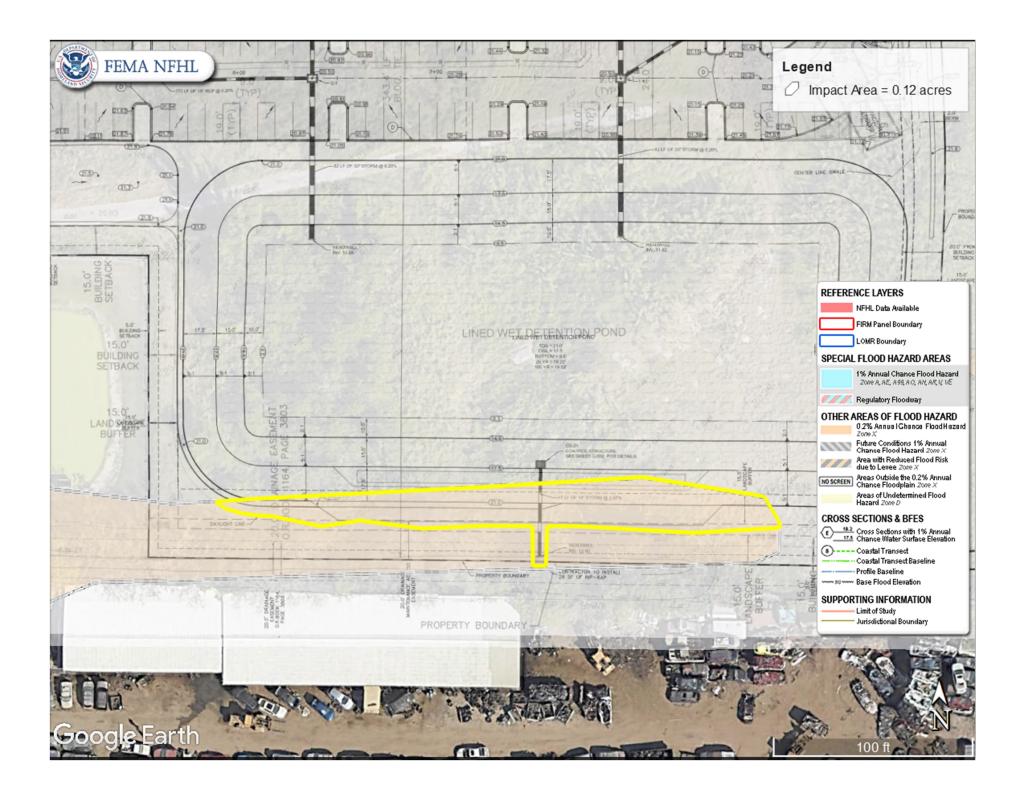


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Official website of the Department of Homeland Security





Floodplain Notification

RE: Ninth Street Apartments 5420 10th Lane East Bradenton, FL 34203

A small southern portion of the Ninth Street Apartments is located within the Federal Flood Risk Management Standard (FFRMS) floodplain (see map below), including a section of 18-inch storm drain and associated discharge. In the unlikely event of a flood event, safety is our top priority.



Please note that in accordance with 24 CFR 55.4, the property owner will clearly communicate additional safety resources for residents.

All residents may register for the Manatee County's instant notification system, Alert Manatee, at https://www.mymanatee.org/services-and-amenities/service-listing/service-details/sign-up-for-alert-manatee. This emergency alert system keeps the community informed and prepared for emergencies, including updates on severe weather, hazardous conditions, and safety alerts that could impact the area.

Please be advised that flood insurance is available for your personal belongings.

Acknowledgement:	
Resident Name (printed)	
Resident Signature	

STORMWATER MANAGEMENT PLAN FOR

9th Street Apartments Multi-Family Residential Development

Prepared for:

Elmington Capital Group, LLC 1030 16th Ave South Nashville, TN, 37212

Prepared by:



Kimley-Horn and Associates, Inc. 1800 2nd Street, Suite 900 Sarasota, FL 34236

April 2025

Project No. 045958008

THIS DOCUMENT, TOGETHER WITH THE CONCEPTS AND DESIGNS PRESENTED HEREIN, AS AN INSTRUMENT OF SERVICE, IS INTENDED ONLY FOR THE SPECIFIC PURPOSE AND CLIENT FOR WHICH IT WAS PREPARED. REUSE OR ANY IMPROPER RELIANCE ON THE DOCUMENT WITHOUT WRITTEN AUTHORIZATION AND ADAPTATION BY KIMLEY-HORN AND ASSOCIATES, INC., SHALL BE WITHOUT LIABILITY TO KIMLEY-HORN AND ASSOCIATES, INC.

ENGINEER'S CERTIFICATION

9th Street Apartments Multi-Family Residential Development

This is to certif	fy that the enclose	d engineering	calculations	were perfor	rmed by me	or under my
direct supervis	sion.					

PATRICK M. HEALY, P.E. #82351 Kimley-Horn and Associates, Inc. 1800 2nd Street, Suite 900 Sarasota, Florida 34236 C.A. 35106

DATE: _____

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- 2. NRCS Soil Map
- 3. FEMA Flood Zone Map

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- C-1. Existing Conditions Hydraulic Network
 - 1. Time of Concentration
 - 2. Model Input
 - Model Results

APPENDIX D Water Quantity Calculations - Proposed Conditions

- D-1. Proposed Conditions Hydraulic Network
 - Model Input
 - Model Results

APPENDIX E Internal Stormwater Hydraulic Grade Line (HGL) Analysis

- E-1. Internal Stormwater Hydraulic Grade Line
 - Model Input
 - 2. Model Results

APPENDIX F Stormwater System Maintenance Guidelines

APPENDIX G Best Management Practices Guidelines

9th Street Apartments Multi-Family Residential Development

BACKGROUND

This report addresses the stormwater management system associated with the 9^{TH} Street Apartments Multi-Family project, on behalf of the applicant, Elmington Capital Group. The proposed development is 134 multi-family rental units, of which 25% will be designated as affordable housing. The subject property is \pm 6.71-acres in area and is generally located approximately a 1,000 LF South of the intersection at 53^{rd} Ave East and 9^{th} Street East. Please refer to the **Aerial Location Map** located in **Appendix A** for a depiction of the project limits on a current aerial.

EXISTING CONDITIONS

The subject parcel was used as industrial site, with rubble, buried construction debris and decaying wood. Please refer to the **Environmental Narrative** that has been provided in this submittal for existing property uses and historical information. The property is currently vacant and is now an unmaintained open space.

Drainage Patterns

The site is generally flat, and the elevations on-site range from 19 to 22 feet per the North American Vertical Datum of 1988 (NAVD88). The property appears to drain to an existing dich that runs along the Northern, Eastern and Southern property boundary. A portion of the site drains to the 9th Street Ave roadway that enters a detention pond that discharges to the same ditch as mentioned above. Please refer to the **Existing Conditions Hydraulic Network** Map in **Appendix C**. This ditch then discharges to the Bowlees Creek that then ultimately discharges to Sarasota Bay.

Soils

According to the National Resources Conservation Center (NRCS) on-site soils are combination of canova, anclote, and okeelanta soils; delray-eaugallie complex; and palmetto sand. These soils have a hydraulic soils group (HSG) rating of A/D. Please refer to the **NRCS Soils Map** in **Appendix A** for a depiction of the on-site soils.

Flood Hazard Determination

Based on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) numbers 12081C0308E, effective 3/17/2014, the project lies in Flood Hazard Zone X. Floodplain mitigation / compensation is generally only required for improvements in Special Flood Hazard Areas (Zone A, Zone AE) and thus not expected as a requirement of this project. Please refer to the **FEMA Flood Zone Map** provided in **Appendix A** for a depiction of the FEMA Flood Hazard Areas associated with the site.

PROPOSED CONDITION

9th Street Apartments Multi-Family Residential Development

This project consists of 134 multi-family unit apartment building, parking lot facilities and amenities. Additionally, the construction of stormwater management facilities and infrastructure to provide water quality and water quantity (flood control) assurances. The project will utilize a wet detention pond for stormwater management and the Stormwater runoff from the project will be collected in inlets and piped to the pond for attenuation. The stormwater management system will discharge to the same ditch as shown in the existing condition.

Control Water Elevations

The control water elevations (CWL) of the proposed wet detention pond were set based on the surveyed seasonal high-water elevation (SHWL), and the existing pond data that is adjacent to the site. The **Geotechnical Study Report**, also provided with the application, supports the control water elevation established.

Drainage Patterns

The development has been designed to ensure comprehensive stormwater management by capturing all onsite stormwater and directing it to a lined wet detention pond via stormwater inlets, yard drains, trench drains, and swales. Further hydraulic grade line information can be found in **Appendix E**. Upon entering the wet detention pond and reaching the designated treatment elevation—detailed in the **Water** Quality section—water is discharged through a control structure. Water is then discharged to the existing ditch as mentioned in the existing condition. This structure has been designed to achieve a 50% reduction in rate from the peak existing condition, in adherence to Manatee County standards. For an in-depth analysis, refer to the **Model Results and Comparison** section, as well as the **Water Quantity / Flood Control** section, which provide comprehensive insights into the system's performance and flood control measures.

WATER QUALITY

The water quality standards of the Southwest Florida Water Management District (SWFWMD) for wet detention treatment systems, like those proposed with this project, have specific requirements to ensure the removal of oils, greases, and other pollutants collected in runoff from storm events. This project utilizes the Conservation Wet Detention design criteria of the SWFWMD, which stipulates the total water quality volume be stored below the discharge device / outfall of the pond. This requires a total water quality volume equal to 1" of runoff volume over the contributing basin plus the average of the total rainfall during the wet season (122 days, June through September) with a 14-day residence time.

The Conservation Wet Detention design also requires a gravity flow outfall device or weir sized to discharge ½ inch of runoff volume over the contributing basin within 24 hours with a maximum fluctuation depth in the pond of 10 inches. Please refer to **Appendix B** for Wet Detention treatment and calculations demonstrating the recovery of ½ inch of runoff volume.

9th Street Apartments Multi-Family Residential Development

FDEP Impaired Waters

The project site discharges to WBIDS 1896 (Bowlees Creek) Florida Department of Environmental Protection (FDEP) and is not listed for impairments. Bowlees Creek was identified as Water Not Attaining Standards (WNAS) for bacteria. Improvement to the bacteria condition for this development is presumptive.

WATER QUANTITY / FLOOD CONTROL

The following regulatory requirements govern the design of attenuation facilities providing water quantity (flood control) for the site:

SWFWMD

- Discharge off-site is limited to the pre-development discharge rate in the 25-year, 24hour storm event
- No adverse off-site flood stage impacts in up to the 100-year, 24-hour storm event

Manatee County

- Discharge rate off-site is limited to the pre-development discharge rate in the 25-year,
 24-hour storm event
- 1' of freeboard from the peak stage in stormwater management ponds in the required design storm event (25-year, 24-hour storm for this project)
- No adverse off-site flood stage impacts in the 100-year, 24-hour storm event
- Provide a 50% rate reduction in the 25-year, 24-hour storm event

Hydrologic & Hydraulic Modeling

The hydrologic & hydraulic (H&H) models used to simulate surface water runoff were developed in the Interconnected Pond Routing (ICPR) software, Version 4. Because there is no regional watershed model that includes the property, a model was developed using best-available information. The following sections include information on the development of each of the model features. Source information for the model development is provided in **Appendix C**.

Model Boundary Conditions:

The boundary conditions for the model were derived from the Bowlees Creek Model. Using the 100-Year 24-Hour simulation, Node BC_C00630_N was utilized for the tailwater conditions and initial stage data. Please refer to the **ECM Inputs** for the time series data used for this boundary node.

Hydrology

The hydrology in the modeling is represented with manual basin features in ICPR4. Data in these features is populated with the land use and hydrologic soils groups (HSG) to establish the appropriate curve number (CN) using the methodology outlined in *TR*-

9th Street Apartments Multi-Family Residential Development

55 Urban Hydrology for Small Watersheds. The existing land use mapping was developed from site observation, survey, and the Florida Land Use, Cover, and Forms Classification System (FLUCFCS) database maintained by the SWFWMD. The HSG information was obtained from the NRCS web soil survey.

Times of concentration were calculated based on the TR-55 methodology for each manual basin, with a minimum of 10 minutes utilized for developed basins.

Storage

Volumetric storage for the routing model was calculated in the ICPR4 software using a digital elevation model (DEM) developed from the survey. This data was supplemented in areas outside of the survey limits utilizing light detection and ranging (LiDAR) data from the NOAA. Volumetric exclusions were made in areas represented with channel links. All storage in the routing model is represented using a stage (elevation) and area relationship. Storage filled by the proposed development was removed from the stagearea relationship in the affected node. Volume in areas where permitted improvements were included in the model was also removed from the stage-area relationship.

Hydraulics

The hydraulics in the ICPR4 model are represented as links that are defined as pipes, weirs, channels, or drop structures.

Drop structures are limited to the proposed project and include a pipe and control weir. These represent the outfalls from the stormwater management system.

The survey information was used to create a model of the existing site conditions. This model is referred to as the Existing Conditions Model (ECM) and represents the drainage in the vicinity of the site prior to development. Please refer to **Appendix C** for model inputs and results for the ECM. This model was then updated to incorporate the improvements proposed with this project to create a Proposed Conditions Model (PCM). This included the re-calculation of the on-site hydrology using the TR-55 methodology to include the additional impervious areas. This also required the revising / removing existing node storage areas filled as part of this project. Links were also revised as required to represent changes in grading or proposed features as required. Please refer to **Appendix D** for model inputs and results for the PCM.

Simulations and Results

To demonstrate adherence to regulatory criteria, the H&H models were analyzed for design storm events with the attributes detailed in **Table 1**.

Table 1: Design Storm Events

Reoccurrence Interval (Years)	Duration (Hours)	Cumulative Rainfall (Inches)	Rainfall Distribution
25	24	8.0	SCS Type II FL Modified
100	24	10	SCS Type II FL Modified

9th Street Apartments Multi-Family Residential Development

Model Results and Comparison

Adherence to the design discharge rate criteria of SWFWMD and Manatee County was assessed by comparing the peak inflow rates adjacent downstream nodes. The results of the peak discharge rate analysis are provided in **Table 2**.

Table 2: Peak Discharge Rate (25-year, 24-hour Storm Event)

Nada	Peak Flow Rate (cfs)		
Node	Pre-Development (ECM)	Post-Development Allowable (PCM)	
ECG-01	14.43	7.22	

Internal Stormwater Hydraulic Grade Line (HGL)

The internal collection system for this project was incorporated into a simplified version of the proposed conditions ICPR4 using the wet detention pond results as time-stage tailwater conditions. The peak stages (hydraulic grade line) of this system relative to the proposed improvements is tabulated in **Appendix E**. This provides assurances that the proposed collecting system is sized adequately to convey the project to the wet detention pond without adverse on-site or off-site flood conditions. Adherence to Manatee County criteria concerning 3" of freeboard to the storm structure inlet is also demonstrated.

Floodplain Encroachment and Compensation

There is no floodplain on the subject property.

MAINTENANCE OBLIGATIONS

The maintenance of the on-site stormwater management system is the responsibility of Elmington Capital Group, LLC.

PROPERTY INFORMATION

- 1. Aerial Location Map
- 2. NRCS Soil Map
- 3. FEMA Flood Zone Map

WET DETENTION TREATMENT TREATMENT AREA: ECG-01

Minimum Permanent Pool Volume: Contributing Areas:

Land Use	Area (ac)	Runoff C
PERVIOUS	2.40	0.20
DCIA	3.31	0.95
WATER	1.03	1.00
	6.75	0.69

Wet Season Runoff Volume, Vw =
Treatment Volume, Vt=
Cascading Treatment Volume, Vc =
Min. Permanent Pool Volume, V =

Minimum Pond Area:
Contributing Basin Area, A =
1/2" Runoff Volume, V1/2 =
Maximum Fluctuation Depth, Fmax =

Minimum Pond Area:
Contributing Basin Area, A =
1/2" Runoff Volume, V1/2 =
Maximum Fluctuation Depth, Fmax =
Minimum Pond Area, Amin =

Contributing Basin Area, A =
1/2" Runoff Volume, V1/2 =
Maximum Fluctuation Depth, Fmax =
Minimum Pond Area, Amin =

Design Pond Infor	mation:		
	Area (ac)	Depth (ft)	
CWL	1.03	0.00	
Breakline	0.74	3.00	
Bottom	0.56	8.00	(Max 8')
			_
Design Pond Area	1.03	acres	
Fluctuation Depth	3.27	inches	

Perm Pool Vol, Vp =	5.91	ac-ft
Treatment Weir Width =	1.10	feet

24 hour discharge = 87.38 % Remaining 0.03 ft of head added to the initial stage



 $Vp = [D1^*((A1+A2)/2)] + [(D2-D1)^*((A2+A3)/2)]$

1.43	ac-ft	Vw= (C)(A)(32.1 in /122 days)(14 days)(1 ft/12 in)
0.56	ac-ft	Vt = (A)(1 in)(1 ft/12 in)
0.00	ac-ft	Vc= (A)(0.5 in)(1 ft/12 in)
1.99	ac-ft	V = Vw + Vt + Vc

6.75	acres	Directly contributing only
0.28	ac-ft	V = (A)(0.5 in)(1 ft/12 in)
10	inches	Per SWFMWD TP/SW-22
0.34	acres	Amin = V/[(10 in) + (1 ft/12 in)]

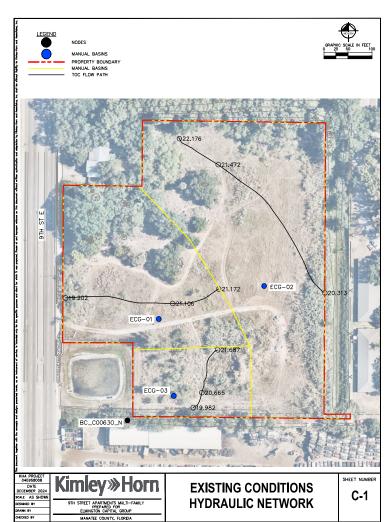
<u>Drawdown Calculations:</u>						
Time	Head	Remain	Flow	Increm.		
(hr)	(ft)	Vol. (cf)	(cfs)	Vol. (cf)		
0	0.27	12243	0.50	1806		
1	0.23	10437	0.39	1422		
2	0.20	9015	0.32	1141		
3	0.18	7874	0.26	932		
4	0.15	6942	0.21	771		
5	0.14	6171	0.18	646		
6	0.12	5524	0.15	548		
7	0.11	4977	0.13	468		
8	0.10	4509	0.11	404		
9	0.09	4105	0.10	351		
10	0.08	3754	0.09	307		
11	0.08	3448	0.07	270		
12	0.07	3178	0.07	239		
13	0.07	2939	0.06	212		
14	0.06	2726	0.05	190		
15	0.06	2537	0.05	170		
16	0.05	2366	0.04	153		
17	0.05	2213	0.04	139		
18	0.05	2074	0.03	126		
19	0.04	1948	0.03	115		
20	0.04	1833	0.03	105		
21	0.04	1729	0.03	96		
22	0.04	1633	0.02	88		
23	0.03	1545	0.02	81		
24.00	0.03	1464	0.02	75		

APPENDIX C WATER QUANTITY CALCULATIONS - EXISTING CONDITIONS

C-1. Existing Conditions Hydraulic Network

1. Wet Detention Treatment

- 1. Time of Concentration
- 2. Model Input
- 3. Model Results



ECM Inputs Simulation: 100YR 24HR | Scenario: | ECM | Run Date/Time: | 12/12/2024 8:13:52 AM | Program Version: | ICPR4 4.07.04 | Hour [hr] Start Time: 48.0000 Hydrology [sec] Surface Hydraulics Min Calculation Time: Max Calculation Time: Restart File Boundary Stage Set: 100 Extern Hydrograph Set: Curve Number Set: CN Rainfall Folder: Icpr3 100YR 24HR Unit Hydrograph Icpr3 Folder: Green-Ampt Set: Vertical Layers Set: Impervious Set: Impervious Time Marching: SAOR Max Iterations: 6 Over-Relax Weight 0.5 dec IA Recovery Time: 24.0000 hr Fact: dZ Tolerance: 0.0010 ft

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Smp/Man Basin Rain Global

TIME OF CONCENTRATION Kimley » Horn

ECM Inputs Opt: Max dZ: 1.0000 ft Link Optimizer Tol: 0.0001 ft Rainfall Name: ~FLMOD Rainfall Amount: 10.00 in Storm Duration: 24.0000 hr Edge Length Option: Automatic Dflt Damping (1D): 0.0050 ft Min Node Srf Area 113 ft2 (1D): Energy Swltch (1D): Energy Simulation: 25YR 24HR | Scenario: ECM | Run Date/Time: 12/12/2024 8:14:16 AM | Program Version: ICPR4 4.07.04 | Run Mode: Normal Hour [hr] 0 0.0000 48.0000 End Time: Hydrology [sec] [sec] 0.1000 Min Calculation Time: Max Calculation Time 60.0000

ECM Inputs

Lookup Tables
Boundary Stage Set: 100YR 24HR
Extern Hydrograph Set:
Curve Number Set: CN Resources Rainfall Folder: Icpr3 Unit Hydrograph Icpr3 Folder: Green-Ampt Set

Vertical Layers Set: Impervious Set: Impervious

Time Marching: SAOR IA Recovery Time: 24.0000 hr Max Iterations: 6 Over-Relax Weight 0.5 dec

Fact: dZ Tolerance: 0.0010 ft

Smp/Man Basin Rain Global Max dZ: 1.0000 ft

Link Optimizer Tol: 0.0001 ft Rainfall Name: ~FLMOD Rainfall Amount: 8.00 in Storm Duration: 24.0000 hr Edge Length Option: Automatic

Dflt Damping (1D): 0.0050 ft Min Node Srf Area 113 ft2 (1D): Energy Switch (1D): Energy

Comment:

Manual Basin: ECG-01

cenario: ECM Node: BC_C00630_N Node: BC_C00630_N Hydrograph Method: NGS Unit Hydrograph Infiltration Method: Curve Number Time of Concentration: 59.0000 min Max Allowable O: 9999.00 cfs Time Shift: 0.0000 hr Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 2.2537 a

Soil Zone 2.2537 Pervious

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ECM Inputs

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.1667	11.04
0	0	0	0.2500	11.04
0	0	0	0.3334	11.05
0	0	0	0.4167	11.05
0	0	0	0.5000	11.06
0	0	0	0.5834	11.07
0	0	0	0.6667	11.09
0	0	0	0.7500	11.11
0	0	0	0.8334	11.14
0	0	0	0.9167	11.17
0	0	0	1.0000	11.21
0	0	0	1.0833	11.26
0	0	0	1.1667	11.32
0	0	0	1.2500	11.38
0	0	0	1.3334	11.45
0	0	0	1.4167	11.53
0	0	0	1.5000	11.61
0	0	0	1.5833	11.69
0	0	0	1.6667	11.78
0	0	0	1.7500	11.83
0	0	0	1.8334	11.83
0	0	0	1.9167	11.84
0	0	0	2.0000	11.84
0	0	0	2.0834	11.84
0	0	0	2.1667	11.84
0	0	0	2.2500	11.85
0	0	0	2.3334	11.85
0	0	0	2.4167	11.85
0	0	0	2.5000	11.86
0	0	0	2.5834	11.86
0	0	0	2.6667	11.86
0	0	0	2.7500	11.87
0	0	0	2.8334	11.87
0	0	0	2.9167	11.88
0	0	0	3.0000	11.88
0	0	0	3.0834	11.89
0	0	0	3.1667	11.89
0	0	0	3.2500	11.89
0	0	0	3.3333	11.90
0	0	0	3.4167	11.91
0	0	0	3.5000	11.91
0	0	0	3.5834	11.92
0	0	0	3.6667	11.92
0	0	0	3.7500	11.93
0	0	0	3.8334	11.93
0	0	0	3.9167	11.94
0	0	0	4.0000	11.95
0	0	0	4.0834	11.95
0	0	0	4.0834	11.96
· ·	U	10	4.1007	11.90

ECM Inputs

Scenario: ECM
Node: BC_C00630_N
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number Infiltration Method: Curve Number
Time of Concentration: 29.0000 min
Max Allowable 0: 9999.00 ds
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 4.0154 ac

0.2145 Pervious 3.8010 Pervious C/D A/D

Scenario: ECM
Node: BC_C00630_N
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.0000 min
Max Allowable 0: 999 00 d's
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.7805 ac
Land Cover Zone Soil

Land Cover Zone

0.5541 Pervious 0.2264 Pervious

Comment:

Node: BC_C00630_N

Scenario: ECM
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 11.04 ft
Warning Stage: 0.00 ft
Boundary Stage:

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ECM Inputs

Year	Month	Day	Hour	Stage [ft]
0	0	0	4.2501	11.97
0	0	0	4.2501	11.97
0	0	0	4.4167	11.97
0	0	0	4.4167	11.98
0	0			
		0	4.5834	11.99
0	0	0	4.6667	12.00
0	0	0	4.7500	12.01
0	0	0	4.8334	12.02
0	0	0	4.9167	12.03
0	0	0	5.0000	12.03
0	0	0	5.0833	12.04
0	0	0	5.1667	12.05
0	0	0	5.2500	12.06
0	0	0	5.3334	12.07
0	0	0	5.4167	12.08
0	0	0	5.5000	12.09
0	0	0	5.5833	12.09
0	0	0	5.6667	12.10
0	0	0	5.7500	12.11
0	0	0	5.8333	12.12
0	0	0	5.9167	12.13
0	0	0	6.0000	12.14
0	0	0	6.0834	12.15
0	0	0	6.1667	12.16
0	0	0	6.2500	12.17
0	0	0	6.3333	12.18
0	0	0	6.4167	12.20
0	0	0	6.5000	12.21
0	0	0	6.5833	12.22
0	0	0	6.6667	12.23
0	0	0	6.7500	12.24
0	0	0	6.8334	12.25
0	0	0	6.9167	12.27
0	0	0	7.0000	12.28
0	0	0	7.0834	12.29
0	0	0	7.1667	12.30
0	0	0	7.2500	12.32
0	0	0	7.3334	12.33
0	0	0	7.4167	12.34
0	0	0	7.5000	12.34
0	0	0	7.5833	12.37
0	0	0		
0	0	0	7.6667 7.7500	12.38 12.40
0	0	0		
0			7.8333	12.41
	0	0	7.9167	12.43
0	0	0	8.0000	12.44
0	0	0	8.0834	12.46
0	0	0	8.1667	12.47
0	0	0	8.2500	12.49

Year	Month	Day	Hour	Stage [ft]	
0	0	0	8.3334		12.50
0	0	0	8.4167		12.52
0	0	0	8.5000		12.54
0	0	0	8.5833		12.55
0	0	0	8.6667		12.57
0	0	0	8.7500		12.59
0	0	0	8.8333		12.61
0	0	0	8.9167		12.63
0	0	0	9.0000		12.64
0	0	0	9.0833		12.66
0	0	0	9.1667		12.68
0	0	0	9.2500		12.71
0	0	0	9.3333		12.73
0	0	0	9.4167		12.75
0	0	0	9.5000		12.77
0	0	0	9.5833		12.79
0	0	0	9.6667		12.81
0	0	0	9.7500		12.84
0	0	0	9.8333		12.86
0	0	0	9.9167		12.89
0	0	0	10.0000		12.91
0	0	0	10.0833		12.93
0	0	0	10.1667		12.97
0	0	0	10.2500		12.99
0	0	0	10.3333		13.02
0	0	0	10.4167		13.05
0	0	0	10.5000		13.08
0	0	0	10.5833		13.11
0	0	0	10.6667		13.14
0	0	0	10.7500		13.17
0	0	0	10.8333		13.21
0	0	0	10.9167		13.25
0	0	0	11.0000		13.28
0	0	0	11.0833		13.32
0	0	0	11.1667		13.36
0	0	0	11.2500		13.41
0	0	0	11.3333		13.45
0	0	0	11.4167		13.50
0	0	0	11.5000		13.55
0	0	0	11.5834		13.60
0	0	0	11.6667		13.67
0	0	0	11.7500		13.76
0	0	0	11.8334		13.88
0	0	0	11.9167		14.03
0	0	0	12.0000		14.24
0	0	0	12.0833		14.54
0	0	0	12.1667		15.06
0	0	0	12.2500		15.90
0	0	0	12.3334		16.80

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ECM Inputs	9	ECM Inputs

Year	Month	Day	Hour	Stage [ft]
0	0	0	16.5000	17.65
0	0	0	16.5834	17.63
0	0	0	16.6667	17.60
0	0	0	16.7500	17.58
0	0	0	16.8334	17.56
0	0	0	16.9167	17.54
0	0	0	17.0000	17.52
0	0	0	17.0834	17.50
0	0	0	17.1667	17.47
0	0	0	17.2500	17.45
0	0	0	17.3334	17.43
0	0	0	17.4167	17.41
0	0	0	17.5000	17.38
0	0	0	17.5834	17.36
0	0	0	17.6667	17.34
0	0	0	17.7500	17.32
0	0	0	17.8334	17.30
0	0	0	17.9167	17.27
0	0	0	18.0000	17.25
0	0	0	18.0834	17.23
0	0	0	18.1667	17.21
0	0	0	18.2500	17.19
0	0	0	18.3334	17.16
0	0	0	18.4167	17.14
0	0	0	18.5000	17.12
0	0	0	18.5834	17.10
0	0	0	18.6667	17.10
0	0	0	18.7500	17.06
0	0	0	18.8334	17.04
0	0	0	18.9167	17.04
0	0	0	19.0000	17.02
0	0	0	19.0834	16.99
0	0	0	19.1667	16.97
0	0	0	19.2500	16.95
0	0	0	19.3334	16.93
0	0	0	19.4167	16.91
0	0	0	19.5000	16.89
0	0	0	19.5834	16.88
0	0	0	19.6667	16.86
0	0	0	19.7500	16.84
0	0	0	19.8334	16.83
0	0	0	19.9167	16.81
0	0	0	20.0000	16.80
0	0	0	20.0834	16.78
0	0	0	20.1667	16.76
0	0	0	20.2500	16.75
0	0	0	20.3334	16.73
0	0	0	20.4167	16.72
0	0	0	20.5000	16.70

	Month	Day	Hour	Stage [ft]
0	0	0	12.4167	17.37
0	0	0	12.5000	17.66
0	0	0	12.5833	17.82
0	0	0	12.6667	17.93
0	0	0	12.7500	18.02
0	0	0	12.8333	18.08
0	0	0	12.9167	18.12
0	0	0	13.0000	18.15
0	0	0	13.0833	18.16
0	0	0	13.1667	18.17
0	0	0	13.2500	18.17
0	0	0	13.3333	18.18
0	0	0	13.4167	18.18
0	0	0	13.5000	18.18
0	0	0	13.5834	18.18
0	0	0	13.6667	18.18
0	0	0	13.7500	18.17
0	0	0	13.8334	18.17
0	0	0	13.9167	18.16
0	0	0	14.0000	18.16
0	0	0	14.0834	18.15
0	0	0	14.1667	18.13
0	0	0	14.2500	18.12
0	0	0	14.3334	18.10
0	0	0	14.4167	18.09
0	0	0	14.5000	18.07
0	0	0	14.5834	18.06
0	0	0	14.6667	18.04
0	0	0	14.7500	18.03
0	0	0	14.8334	18.01
0	0	0	14.9167	18.00
0	0	0	15.0000	17.99
0	0	0	15.0834	17.97
0	0	0	15.1667	17.96
0	0	0	15.2500	17.94
0	0	0	15.3334	17.92
0	0	0	15.4167	17.91
0	0	0	15.5000	17.89
0	0	0	15.5834	17.87
0	0	0	15.6667	17.85
0	0	0	15.7500	17.83
0	0	0	15.8334	17.81
0	0	0	15.9167	17.80
0	0	0	16.0000	17.78
0	0	0	16.0834	17.76
0	0	0	16.1667	17.74
0	0	0	16.2500	17.71
0	0	0	16.3334	17.69
0	0	0	16.4167	17.67

0 0 0 0 2210000 16.61
0 0 0 0 2210000 16.61
0 0 0 0 2110000 16.61
0 0 0 0 2110000 16.61
0 0 0 0 211000 16.69
0 0 0 0 211000 16.69
0 0 0 0 211000 16.60
0 0 0 0 211000 16.60
0 0 0 0 211000 16.60
0 0 0 0 213334 16.64
0 0 0 0 0 215000 16.51
0 0 0 0 215000 16.51
0 0 0 0 215000 16.51
0 0 0 0 215000 16.51
0 0 0 0 215000 16.51
0 0 0 0 215000 16.51
0 0 0 0 215000 16.60
0 0 0 215000 16.60
0 0 0 215000 16.60
0 0 0 215000 16.60
0 0 0 215000 16.60
0 0 0 217500 16.60
0 0 0 218334 16.50
0 0 0 218334 16.50
0 0 0 217500 16.47
0 0 0 0 217500 16.47
0 0 0 0 217500 16.47
0 0 0 0 217500 16.47
0 0 0 0 220000 16.42
0 0 0 0 220000 16.62
0 0 0 0 220000 16.42
0 0 0 0 220000 16.43
0 0 0 0 222500 16.38
0 0 0 0 222500 16.38
0 0 0 0 222500 16.38
0 0 0 0 222500 16.38
0 0 0 0 222500 16.38
0 0 0 0 222500 16.38
0 0 0 0 222500 16.38
0 0 0 0 222500 16.39
0 0 0 0 222500 16.31
0 0 0 0 222500 16.31

23.7500 23.8334 23.9167 24.0000 24.0834 24.1667 24.2500 24.3334 24.4167

20.5834 20.6667 20.7500 20.8334

Month Day Hour Stage [ft]

10

16.69 16.67 16.65 16.64

16.11 16.10 16.09 16.07 16.06 16.04 16.03 16.02

16.00 15.98

Year	Month	Day	Hour	Stage [ft]	
0	0	0	24.6667		15.97
0	0	0	24.7500		15.95
0	0	0	24.8334		15.94
0	0	0	24.9167		15.92
0	0	0	25.0000		15.90
0	0	0	25.0834		15.88
0	0	0	25.1667		15.87
0	0	0	25.2500		15.85
0	0	0	25.3334		15.83
0	0	0	25.4167		15.81
0	0	0	25.5000		15.79
0	0	0	25.5834		15.78
0	0	0	25.6667		15.76
0	0	0	25.7500		15.74
0	0	0	25.8334		15.72
0	0	0	25.9167		15.70
0	0	0	26.0000		15.68
0	0	0	26.0834		15.66
0	0	0	26.1667		15.64
0	0	0	26.2500		15.62
0	0	0	26.3334		15.60
0	0	0	26.4167		15.58
0	0	0	26.5000		15.56
0	0	0	26.5834		15.54
0	0	0	26.6667		15.52
0	0	0	26.7500		15.51
0	0	0	26.8334		15.49
0	0	0	26.9167		15.47
0	0	0	27.0000		15.45
0	0	0	27.0834		15.43
0	0	0	27.1667		15.43
0	0	0	27.2500		15.41
0	0	0	27.3334		15.37
	0	0	27.3334		15.37
0	0	0	27.5000		15.33
0	0	0	27.5834 27.6667		15.31 15.29
0	0	0	27.6667		15.29
0	0	0			15.27 15.25
			27.8334		
0	0	0	27.9167		15.23
0	0	0	28.0000		15.21
0	0	0	28.0834		15.19
0	0	0	28.1667		15.17
0	0	0	28.2500		15.15
0	0	0	28.3334		15.13
0	0	0	28.4167		15.11
0	0	0	28.5000		15.09
0	0	0	28.5834		15.08
0	0	0	28.6667		15.06

C:ECGICPR:0202412-08 ECG Brademon Mulifamily\ 121/20024 10:33 C:ECGICPR:0202412-08 ECG Brademon Mulifamily\ 121/20024 10:33

ECM Inputs	13	ECM Inputs

Year	Month	Day	Hour	Stage [ft]
0	0	0	32.8334	14.22
0	0	0	32.9167	14.21
0	0	0	33.0000	14.19
0	0	0	33.0834	14.18
0	0	0	33.1667	14.17
0	0	0	33.2500	14.15
0	0	0	33.3333	14.14
0	0	0	33.4167	14.13
0	0	0	33.5000	14.11
0	0	0	33.5833	14.10
0	0	0	33.6667	14.09
0	0	0	33.7500	14.08
0	0	0	33.8333	14.06
0	0	0	33.9167	14.05
0	0	0	34.0000	14.04
0	0	0	34.0833	14.03
0	0	0	34.1667	14.03
0	0	0	34.2500	14.00
0	0	0	34.3333	13.99
0	0	0	34.4167	13.99
0	0	0	34.5000	13.76
0	0	0	34.5833	13.95
0	0	0	34.6667	13.94
0	0	0	34.7500	13.93
0	0	0	34.8333	13.92
0	0	0	34.9167	13.92
0	0	0	35.0000	13.91
0	0	0	35.0833	13.88
0	0	0	35.1667	13.87
0	0	0	35.2500	13.86
0	0	0	35.3333	13.85
0	0	0	35.4167	13.84
0	0	0	35.5000	13.83
0	0	0	35.5833	13.82
0	0	0	35.6667	13.82
0	0	0	35.7500	13.80
0	0	0	35.8333	13.80
0	0	0	35.8333	13.79
0	0	0	36.0000	13.78
0	0	0	36.0833	13.76
0	0	0	36.1667	13.74
0	0	0	36.2500	13.74
0	0	0	36.3333	13.73
0	0	0	36.4167	13.72
0	0	0	36.5000	13.71
0	0	0	36.5833	13.70
0	0	0	36.6667	13.69
0	0	0	36.7500	13.68
0	0	0	36.7500	13.66
U	10	U	30.8334	13.66

Month Day Hour Stage [ft]

28.7500 28.8334 28.9167 29.0000 29.0834 29.1667 29.2500 29.3333

29.3333 29.4167 29.5000 29.5833 29.6667 29.7500

29.8333 29.9167 30.0000 30.0834 30.1667 30.2500 30.3334 30.4167 30.5000 30.5834 30.6667

30.7500 30.8334 30.9167 31.0000 31.0834 31.1667

31.1667 31.2500 31.3333 31.4167 31.5000 31.5833 31.6667 31.7500 31.8333 31.9167

31.9167 32.0000 32.0833 32.1667 32.2500 32.3334 32.4167 32.5000 32.5834 32.6667 32.7500 15.04 15.02 15.00 14.98

14.96 14.94 14.92 14.91 14.89 14.87 14.85 14.83

14.80 14.78 14.76 14.74 14.72 14.71 14.69 14.67 14.66 14.64 14.62 14.60 14.59

14.57 14.55 14.54 14.52

14.51 14.49 14.47 14.46 14.44 14.43 14.41 14.40 14.38

14.37 14.35 14.34 14.32 14.31 14.29 14.28 14.26 14.25 14.24

Year	Month	Day	Hour	Stage [ft]	
0	0	0	36.9167		13.65
0	0	0	37.0000		13.64
0	0	0	37.0834		13.64
0	0	0	37.1667		13.63
0	0	0	37.2500		13.62
0	0	0	37.3334		13.6
0	0	0	37.4167		13.6
0	0	0	37.5000		13.5
0	0	0	37.5834		13.5
0	0	0	37.6667		13.5
0	0	0	37.7500		13.5
0	0	0	37.8334		13.5
0	0	0	37.9167		13.5
0	0	0	38.0000		13.5
0	0	0	38.0834		13.5
0	0	0	38.1667		13.5
0	0	0	38.2500		13.5
0	0	0	38.3334		13.5
0	0	0	38.4167		13.4
0	0	0	38.5000		13.4
0	0	0	38.5834		13.4
0	0	0	38.6667		13.4
0	0	0	38.7500		13.4
0	0	0	38.8334		13.45
0	0	0	38.9167		13.4
0	0	0	39.0000		13.4
0	0	0	39.0834		13.4
0	0	0	39.1667		13.4
0	0	0	39.2500		13.4
0	0	0	39.3334		13.4
0	0	0	39.4167		13.3
0	0	0	39.5000		13.3
0	0	0	39.5834		13.3
0	0	0	39.6667		13.3
0	0	0	39.7500		13.3
0	0	0	39.8334		13.3
0	0	0	39.9167		13.3
0	0	0	40.0000		13.3
0	0	0	40.0834		13.3
0	0	0	40.1667		13.3
0	0	0	40.2500		13.3
0	0	0	40.3334		13.3
0	0	0	40.4167		13.3
0	0	0	40.5000		13.30
0	0	0	40.5834		13.2
0	0	0	40.6667		13.2
0	0	0	40.7500		13.2
0	0	0	40.8334		13.2
0	0	0	40.9167		13.2

ECM Inputs 15

Year	Month	Day	Hour	Stage [ft]	
0	0	0	41.0000	9- ()	13.25
0	0	0	41.0834		13.25
0	0	0	41.1667		13.24
0	0	0	41.2500		13.23
0	0	0	41.3334		13.23
0	0	0	41.4167		13.22
0	0	0	41.5000		13.21
0	0	0	41.5834		13.21
0	0	0	41.6667		13.20
0	0	0	41.7500		13.19
0	0	0	41.8334		13.19
0	0	0	41.9167		13.18
0	0	0	42.0000		13.17
0	0	0	42.0834		13.17
0	0	0	42.1667		13.16
0	0	0	42.2500		13.16
0	0	0	42.3334		13.15
0	0	0	42.4167		13.14
0	0	0	42.5000 42.5834		13.14
0	0	0			
			42.6667		13.12
0	0	0	42.7500		13.12
0	0	0	42.8334		13.11
0	0	0	42.9167		13.11
0	0	0	43.0000		13.10
0	0	0	43.0834		13.09
0	0	0	43.1667		13.09
0	0	0	43.2500		13.08
0	0	0	43.3334		13.08
0	0	0	43.4167		13.07
0	0	0	43.5000		13.06
0	0	0	43.5834		13.06
0	0	0	43.6667		13.05
0	0	0	43.7500		13.05
0	0	0	43.8334		13.04
0	0	0	43.9167		13.04
0	0	0	44.0000		13.03
0	0	0	44.0833		13.02
0	0	0	44.1667		13.02
0	0	0	44.2500		13.01
0	0	0	44.3333		13.01
0	0	0	44.4167		13.00
0	0	0	44.5000		13.00
0	0	0	44.5833		12.99
0	0	0	44.6667		12.99
0	0	0	44.7500		12.98
0	0	0	44.8334		12.97
0	0	0	44.9167		12.97
0	0	0	45.0000		12.96

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ECM Results

Manual Basin Runoff Summary [ECM]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
ECG-01	100YR 24HR	4.69	12.6500	10.00	7.52	2.2537	80.0	0.00	0.00
ECG-01	25YR 24HR	3.52	12.6667	8.00	5.62	2.2537	80.0	0.00	0.00

Manual Basin Runoff Summary [ECM]

Basin	Sim Name	Max Flow	Time to	Total	Total	Area [ac]	Equivalent	% Imperv	% DCIA
Name		[cfs]	Max Flow	Rainfall	Runoff [in]		Curve		
			[hrs]	[in]			Number		
ECG-02	100YR	12.72	12.2667	10.00	7.52	4.0154	80.0	0.00	0.00
	24HR								
ECG-02	25YR	9.57	12.2833	8.00	5.62	4.0154	80.0	0.00	0.00
	24HR								

Manual Basin Runoff Summary [ECM]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
ECG-03	100YR	3.00	12.1500	10.00	7.52	0.7805	80.0	0.00	0.00
	24HR								
ECG-03	25YR	2.26	12.1500	8.00	5.62	0.7805	80.0	0.00	0.00
	24HR								

Node Max Conditions [ECM]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]			Max Surface Area [ft2]
BC_C00630_	100YR 24HR	0.00	18.18	0.1799	19.18	0.00	0
N							
BC_C00630_	25YR 24HR	0.00	18.18	0.1799	14.43	0.00	0
N							

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ECM Inputs

Year	Month	Day	Hour	Stage [ft]
0	0	0	45,0833	12.90
0	0	0	45.1667	12.9
0	0	0	45.2500	12.9
0	0	0	45,3333	12.9
0	0	0	45.4167	12.9
0	0	0	45.5000	12.9
0	0	0	45.5833	12.9
0	0	0	45.6667	12.9.
0	0	0	45.7500	12.9.
0	0	0	45.8334	12.9
0	0	0	45.9167	12.9
0	0	0	46.0000	12.9
0	0	0	46.0834	12.9
0	0	0	46.1667	12.8
0	0	0	46.2500	12.8
0	0	0	46.3334	12.8
0	0	0	46.4167	12.8
0	0	0	46.5000	12.8
0	0	0	46.5833	12.8
0	0	0	46.6667	12.8
0	0	0	46.7500	12.8
0	0	0	46.8333	12.8
0	0	0	46.9167	12.8
0	0	0	47.0000	12.8
0	0	0	47.0834	12.8
0	0	0	47.1667	12.8
0	0	0	47.2500	12.8
0	0	0	47.3333	12.8
0	0	0	47.4167	12.8
0	0	0	47.5000	12.8
0	0	0	47.5833	12.8
0	0	0	47.6667	12.8
0	0	0	47.7500	12.8
0	0	0	47.8333	12.8
0	0	0	47.9167	12.7
0	0	0	48.0000	12.7

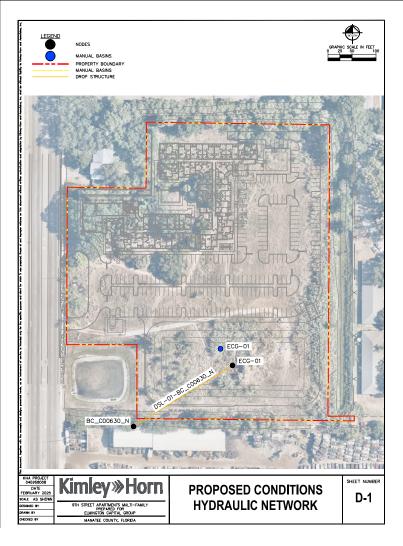
Comment: Stage information found in from Bowlees Creek Model Node BC_C00630_N

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APPENDIX D

WATER QUANTITY CALCULATIONS - PROPOSED CONDITIONS

- D-1. Proposed Conditions Hydraulic Network
- 1. Time of Concentration
- 2. Model Input
- 3. Model Results



02 PCM Inputs Simulation: 100YR 24HR

| Scenario: PCM | Run Date/Time: 4/8/2025 7:59:32 AM | Program Version: ICPR4 4.07.04 |

Hour [hr] Start Time: End Time: 48.0000

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

Rainfall Folder: Icpr3

Boundary Stage Set: 100YR 24HR
Extern Hydrograph Set:
Curve Number Set: CN

Green-Ampt Set: Vertical Layers Set: Impervious Set:

Time Marching: SAOR Max Iterations: 6 Over-Relax Weight 0.5 dec Fact: dZ Tolerance: 0.0010 ft

Folder:

IA Recovery Time: 24.0000 hr

Smp/Man Basin Rain Global

02 PCM Inputs

Opt: Max dZ: 1.0000 ft Link Optimizer Tol: 0.0001 ft Rainfall Name: ~FLMOD Rainfall Amount: 10.00 in Edge Length Option: Automatic Storm Duration: 24,0000 hr

Dflt Damping (1D): 0.0050 fl Min Node Srf Area 113 ft2

(1D): Energy Switch (1D): Energy

Simulation: 25YR 24HR | Scenario: PCM | Run Date/Time: 4/8/2025 7:59:51 AM | Program Version: ICPR4 4.07.04 |

> Run Mode: Normal 0 0 0.0000 48.0000 End Time:

Hydrology [sec] Surface Hydraulics

[sec] 0.1000 Min Calculation Time: Max Calculation Time 60.0000

02 PCM Inputs Boundary Stage Set: Extern Hydrograph Set: Curve Number Set: Rainfall Folder: Icpr3 Unit Hydrograph Icpr3

> Green-Ampt Set Vertical Layers Set: Impervious Set:

Time Marching: SAOR IA Recovery Time: 24.0000 hr Max Iterations: 6 Over-Relax Weight 0.5 dec Fact: dZ Tolerance: 0.0010 ft Smp/Man Basin Rain Global

Max dZ: 1.0000 ft Link Optimizer Tol: 0.0001 ft Rainfall Name: ~FLMOD Rainfall Amount: 8.00 in Storm Duration: 24.0000 hr Edge Length Option: Automatic

> Dflt Damping (1D): 0.0050 ft Min Node Srf Area 113 ft2 (1D):
> Energy Switch (1D): Energy

Scenario: PCM Node: ECG-01

Node: ECG-01
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable O: 0.00 cfs
Time Shift: 0.0000 hr Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 6.7454 a

0.2702 Pervious 2.1334 Pervious 0.2089 Water 0.8245 Water A/D 3.3084 Impervious A/D Comment:

Node: BC_C00630_N
Scenario: PCM
Type: Time/Stage
Base Flow: 0.00 ds
Initial Stage: 11.04 ft
Warning Stage: 0.00 ft
Boundary Stage:

Year	Month	Day	Hour	Stage [ft]
0	0	0	0.0000	11.04
0	0	0	0.0834	11.04
0	0	0	0.1667	11.04
0	0	0	0.2500	11.04
0	0	0	0.3334	11.05
0	0	0	0.4167	11.05
0	0	0	0.5000	11.06
0	0	0	0.5834	11.07
0	0	0	0.6667	11.09
0	0	0	0.7500	11.11
0	0	0	0.8334	11.14
0	0	0	0.9167	11.17
0	0	0	1.0000	11.21
0	0	0	1.0833	11.26
0	0	0	1.1667	11.32
0	0	0	1.2500	11.38
0	0	0	1.3334	11.45
0	0	0	1.4167	11.53
0	0	0	1.5000	11.61
0	0	0	1.5833	11.69
0	0	0	1.6667	11.78
0	0	0	1.7500	11.83
0	0	0	1.8334	11.83
0	0	0	1.9167	11.84
0	0	0	2.0000	11.84
0	0	0	2.0834	11.84
0	0	0	2.1667	11.84
0	0	0	2.2500	11.85
0	0	0	2.3334	11.85
0	0	0	2.4167	11.85
0	0	0	2.5000	11.86
0	0	0	2.5834	11.86
0	0	0	2.6667	11.86
0	0	0	2.7500	11.87
0	0	0	2.8334	11.87
0	0	0	2.9167	11.88

C:VCPR Models\ECG\ICPR\2025-04-02 ECG Bradenton Mulitifamily\ C:\CPR Models\ECG\CPR\2025-04-02 ECG Bradenton Mulitifamily\

02 PCM Inputs

0 0 0 7.0834 12.29 0 0 0 7.1667 12.20 0 0 0 7.2500 12.32 0 0 0 7.7500 12.33 0 0 0 7.500 12.36 0 0 0 7.500 12.36 0 0 0 7.503 12.26 0 0 0 7.500 12.28 0 0 0 7.7500 12.24 0 0 0 7.7500 12.40 0 0 0 7.7500 12.43 0 0 0 7.7500 12.43 0 0 0 7.7500 12.43 0 0 0 7.7670 12.43 0 0 0 8.0000 12.44 0 0 0 8.0000 12.44 0 0 0 8.	Year	Month	Day	Hour	Stage [ft]
0 0 0 7,2500 12,22 0 0 0 7,3334 12,33 0 0 0 7,4167 12,34 0 0 0 7,5000 12,36 0 0 0 7,5603 12,38 0 0 0 7,7607 12,43 0 0 0 7,7167 12,43 0 0 0 7,7167 12,43 0 0 0 0 7,7167 12,43 0 0 0 0 8,834 12,46 0 0 0 8,834 12,46 0 0 0 8,850 12,47 0 0 0 8,2500 12,47 0 0 0 8,333 12,55 0 0 0 8,533 12,55 0 0 0 8,533 12,55 0 0 <td>0</td> <td>0</td> <td>0</td> <td>7.0834</td> <td>12.29</td>	0	0	0	7.0834	12.29
0 0 0 7.3334 12.33 0 0 0 7.4167 12.34 0 0 0 7.5000 12.36 0 0 0 7.5933 12.37 0 0 0 7.7500 12.40 0 0 0 7.7500 12.40 0 0 0 7.9167 12.43 0 0 0 7.9167 12.43 0 0 0 8.0000 12.44 0 0 0 8.0834 12.46 0 0 0 8.0834 12.46 0 0 0 8.0834 12.47 0 0 0 8.3334 12.50 0 0 0 8.3334 12.50 0 0 0 8.5033 12.54 0 0 0 8.5833 12.55 0 0 0 <t< td=""><td>0</td><td>0</td><td>0</td><td>7.1667</td><td>12.30</td></t<>	0	0	0	7.1667	12.30
0 0 0 7.4167 12.34 0 0 0 7.5000 12.36 0 0 0 7.5833 12.37 0 0 0 7.7667 12.38 0 0 0 7.79167 12.43 0 0 0 7.79167 12.43 0 0 0 7.79167 12.43 0 0 0 7.79167 12.43 0 0 0 8.0000 12.44 0 0 0 8.034 12.46 0 0 0 8.034 12.47 0 0 0 8.2500 12.47 0 0 0 8.3334 12.26 0 0 0 8.5334 12.52 0 0 0 8.5833 12.55 0 0 0 8.5833 12.55 0 0 0	0	0	0	7.2500	12.32
0 0 0 7,5000 12,26 0 0 0 7,5833 12,37 0 0 0 7,6667 12,38 0 0 0 7,7500 12,40 0 0 0 7,7967 12,43 0 0 0 8,0000 12,44 0 0 0 8,0000 12,44 0 0 0 8,0000 12,44 0 0 0 8,0000 12,44 0 0 0 8,1667 12,47 0 0 0 8,2500 12,49 0 0 0 8,3334 12,50 0 0 0 8,5000 12,54 0 0 0 8,5833 12,25 0 0 0 8,5667 12,57 0 0 0 8,8667 12,59 0 0 0 <t< td=""><td>0</td><td>0</td><td>0</td><td>7.3334</td><td>12.33</td></t<>	0	0	0	7.3334	12.33
0 0 0 7,5000 12,26 0 0 0 7,5833 12,37 0 0 0 7,6667 12,38 0 0 0 7,7500 12,40 0 0 0 7,7967 12,43 0 0 0 8,0000 12,44 0 0 0 8,0000 12,44 0 0 0 8,0000 12,44 0 0 0 8,0000 12,44 0 0 0 8,1667 12,47 0 0 0 8,2500 12,49 0 0 0 8,3334 12,50 0 0 0 8,5000 12,54 0 0 0 8,5833 12,25 0 0 0 8,5667 12,57 0 0 0 8,8667 12,59 0 0 0 <t< td=""><td></td><td>0</td><td></td><td></td><td></td></t<>		0			
0 0 0 7.5833 12.27 0 0 0 7.6667 12.28 0 0 0 7.7500 12.40 0 0 0 7.7500 12.43 0 0 0 7.9167 12.43 0 0 0 8.0000 12.44 0 0 0 8.0000 12.44 0 0 0 8.8034 12.46 0 0 0 8.5000 12.49 0 0 0 8.2500 12.49 0 0 0 8.3334 12.50 0 0 0 8.5000 12.54 0 0 0 8.5000 12.54 0 0 0 8.5000 12.54 0 0 0 8.5600 12.55 0 0 0 8.5933 12.55 0 0 0 <t< td=""><td></td><td>0</td><td>0</td><td></td><td></td></t<>		0	0		
0 0 0 7,7500 12,40 0 0 0 7,8333 1,241 0 0 0 7,9167 12,43 0 0 0 8,0000 12,244 0 0 0 8,0000 12,249 0 0 0 8,500 12,49 0 0 0 8,500 12,49 0 0 0 8,500 12,49 0 0 0 8,500 12,29 0 0 0 8,4167 12,52 0 0 0 8,500 12,54 0 0 0 8,500 12,54 0 0 0 8,500 12,54 0 0 0 8,560 12,55 0 0 0 8,5667 12,55 0 0 0 8,750 12,59 0 0 0 8,333		0	0		
0 0 0 7,7500 12,40 0 0 0 7,8333 1,241 0 0 0 7,9167 12,43 0 0 0 8,0000 12,244 0 0 0 8,0000 12,249 0 0 0 8,500 12,49 0 0 0 8,500 12,49 0 0 0 8,500 12,49 0 0 0 8,500 12,29 0 0 0 8,4167 12,52 0 0 0 8,500 12,54 0 0 0 8,500 12,54 0 0 0 8,500 12,54 0 0 0 8,560 12,55 0 0 0 8,5667 12,55 0 0 0 8,750 12,59 0 0 0 8,333	0	0	0	7.6667	12.38
0 0 0 7.9167 12.43 0 0 0 8.0000 12.44 0 0 0 8.0834 12.46 0 0 0 8.2500 12.47 0 0 0 8.2500 12.49 0 0 0 8.3334 12.50 0 0 0 8.4167 12.52 0 0 0 8.5000 12.24 0 0 0 8.5000 12.24 0 0 0 8.5000 12.57 0 0 0 8.667 12.57 0 0 0 8.8333 12.261 0 0 0 8.8333 12.261 0 0 0 8.8333 12.261 0 0 0 8.8333 12.261 0 0 0 9.0000 12.244 0 0 0		0	0		
0 0 0 8,0000 12,44 0 0 0 8,0834 12,46 0 0 0 8,1667 12,47 0 0 0 8,2500 12,49 0 0 0 8,3334 12,50 0 0 0 8,500 12,54 0 0 0 8,500 12,54 0 0 0 8,593 12,55 0 0 0 8,667 12,57 0 0 0 8,667 12,27 0 0 0 8,7500 12,29 0 0 0 8,833 12,26 0 0 0 8,9167 12,23 0 0 0 9,000 12,24 0 0 0 9,000 12,24 0 0 0 9,000 12,21 0 0 0 9,000 </td <td>0</td> <td>0</td> <td>0</td> <td>7.8333</td> <td>12.41</td>	0	0	0	7.8333	12.41
0 0 0 8,0000 12,44 0 0 0 8,0834 12,46 0 0 0 8,1667 12,47 0 0 0 8,2500 12,49 0 0 0 8,3334 12,50 0 0 0 8,500 12,54 0 0 0 8,500 12,54 0 0 0 8,593 12,55 0 0 0 8,667 12,57 0 0 0 8,667 12,27 0 0 0 8,7500 12,29 0 0 0 8,833 12,26 0 0 0 8,9167 12,23 0 0 0 9,000 12,24 0 0 0 9,000 12,24 0 0 0 9,000 12,21 0 0 0 9,000 </td <td>0</td> <td>0</td> <td>0</td> <td>7.9167</td> <td>12.43</td>	0	0	0	7.9167	12.43
0 0 0 8.0834 12.46 0 0 0 8.1667 12.47 0 0 0 8.2500 12.49 0 0 0 8.3334 12.50 0 0 0 8.4167 12.52 0 0 0 8.5000 12.54 0 0 0 8.533 12.25 0 0 0 8.533 12.25 0 0 0 8.7500 12.57 0 0 0 8.8333 12.261 0 0 0 8.8333 12.261 0 0 0 8.8333 12.261 0 0 0 8.8333 12.261 0 0 0 8.8333 12.261 0 0 0 9.0000 12.244 0 0 0 9.0033 12.263 0 0 0	0	0	0	8.0000	12.44
0 0 0 8.1667 12.47 0 0 0 8.2500 12.49 0 0 0 8.3334 12.50 0 0 0 8.5000 12.54 0 0 0 8.5000 12.54 0 0 0 8.5000 12.55 0 0 0 8.6667 12.57 0 0 0 8.7500 12.59 0 0 0 8.333 12.21 0 0 0 8.333 12.24 0 0 0 9.0000 12.24 0 0 0 9.0000 12.24 0 0 0 9.0000 12.24 0 0 0 9.0003 12.24 0 0 0 9.0003 12.24 0 0 0 9.0003 12.24 0 0 0	0	0	0	8.0834	
0 0 0 8,2500 12,49 0 0 0 8,3334 12,20 0 0 0 8,4167 12,52 0 0 0 8,5000 12,54 0 0 0 8,5000 12,59 0 0 0 8,6667 12,57 0 0 0 8,7500 12,59 0 0 0 8,7500 12,59 0 0 0 8,7500 12,59 0 0 0 8,7500 12,59 0 0 0 8,8333 12,61 0 0 0 9,000 12,24 0 0 0 9,000 12,24 0 0 0 9,000 12,24 0 0 0 9,333 12,73 0 0 0 9,333 12,73 0 0 0 9,4	0	0	0	8.1667	
0 0 0 8.4167 12.52 0 0 0 8.5000 12.54 0 0 0 8.5000 12.54 0 0 0 8.5000 12.59 0 0 0 0 12.57 0 0 0 8.7500 12.59 0 0 0 8.7167 12.63 0 0 0 9.0000 12.24 0 0 0 9.0000 12.24 0 0 0 9.0000 12.24 0 0 0 9.0000 12.24 0 0 0 9.0000 12.24 0 0 0 9.0033 12.26 0 0 0 9.2500 12.71 0 0 0 9.3333 12.73 0 0 0 9.4167 12.75 0 0 0 9.5	0	0	0		
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0 0 0 8.5000 12.54 0 0 0 8.5833 12.55 0 0 0 8.6667 12.57 0 0 0 8.7500 12.59 0 0 0 8.8333 12.61 0 0 0 9.0000 12.44 0 0 0 9.0000 12.44 0 0 0 9.0000 12.71 0 0 0 9.0000 12.74 0 0 0 9.0000 12.71 0 0 0 9.0000 12.71 0 0 0 9.0000 12.71 0 0 0 9.0000 12.71 0 0 0 9.3333 12.73 0 0 0 9.4167 12.75 0 0 0 9.5000 12.77 0 0 0 <t< td=""><td></td><td>0</td><td>0</td><td></td><td></td></t<>		0	0		
0 0 0 8.5833 12.55 0 0 0 8.6667 12.57 0 0 0 8.7500 12.59 0 0 0 8.8333 12.61 0 0 0 8.9167 12.63 0 0 0 9.0000 12.24 0 0 0 9.0033 12.26 0 0 0 9.0833 12.26 0 0 0 9.1667 12.28 0 0 0 9.1667 12.28 0 0 0 9.2500 12.71 0 0 0 9.3333 12.73 0 0 0 9.4167 12.75 0 0 0 9.5500 12.71 0 0 0 9.5500 12.77 0 0 0 9.5500 12.77 0 0 0 <t< td=""><td></td><td>0</td><td></td><td></td><td></td></t<>		0			
0 0 0 8.6667 12.57 0 0 0 8.7500 12.59 0 0 0 8.8333 12.61 0 0 0 9.0000 12.24 0 0 0 9.0000 12.24 0 0 0 9.0000 12.24 0 0 0 9.0033 12.66 0 0 0 9.1667 12.68 0 0 0 9.2500 12.71 0 0 0 9.3333 12.73 0 0 0 9.4167 12.73 0 0 0 9.5000 12.77 0 0 0 9.5000 12.77 0 0 0 9.5667 12.81 0 0 0 9.7500 12.84 0 0 0 9.8333 12.280 0 0 0 <					
0 0 0 8 7500 12 59 0 0 0 8 8333 1.261 0 0 0 8.9167 12.63 0 0 0 9.0000 12.24 0 0 0 9.0003 12.26 0 0 0 9.667 12.88 0 0 0 9.2500 12.71 0 0 0 9.2500 12.71 0 0 0 9.3333 12.73 0 0 0 9.4167 12.73 0 0 0 9.5000 12.77 0 0 0 9.5000 12.27 0 0 0 9.5000 12.27 0 0 0 9.5000 12.77 0 0 0 9.5033 12.79 0 0 0 9.5833 12.79 0 0 0 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
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0 0 9,0000 12,44 0 0 0 9,0833 12,66 0 0 0 9,1667 12,28 0 0 0 9,2500 12,71 0 0 0 9,333 12,73 0 0 0 9,4167 12,75 0 0 0 9,5000 12,77 0 0 0 9,5833 12,79 0 0 0 9,5833 12,79 0 0 0 9,7500 12,81 0 0 0 9,7500 12,81 0 0 0 9,7500 12,81 0 0 0 9,7500 12,81 0 0 0 9,7500 12,81 0 0 0 9,7500 12,281 0 0 0 9,9167 12,89 0 0 0 10,0000		0	0		
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0 0 0 9.2500 12.71 0 0 0 9.3333 12.73 0 0 0 9.4167 12.75 0 0 0 9.5000 12.77 0 0 0 9.5003 12.77 0 0 0 9.5833 12.79 0 0 0 9.7500 12.84 0 0 0 9.7500 12.84 0 0 0 9.8333 12.86 0 0 0 9.9333 12.86 0 0 0 9.9333 12.86 0 0 0 10.0000 12.99 0 0 0 10.0000 12.99 0 0 0 10.1667 12.29 0 0 0 10.3333 13.02 0 0 0 10.4467 13.05 0 0 10.5000	0	0	0		
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0 0 9.5000 12.77 0 0 0 9.5833 12.79 0 0 0 9.6667 12.81 0 0 0 9.7500 12.84 0 0 0 9.833 12.86 0 0 0 9.9167 12.89 0 0 0 10.0000 12.91 0 0 0 10.0000 12.97 0 0 0 10.667 12.97 0 0 0 10.2500 12.99 0 0 0 10.3333 13.02 0 0 0 10.4167 13.05 0 0 0 10.4167 13.02 0 0 0 10.4167 13.02 0 0 0 10.5500 13.08 0 0 0 10.5503 13.11 0 0 0 10.5607 </td <td></td> <td>0</td> <td>0</td> <td></td> <td>12.73</td>		0	0		12.73
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0 0 9.5833 12.79 0 0 0 9.6667 12.81 0 0 0 9.7500 12.84 0 0 0 9.8333 12.86 0 0 0 9.9167 12.89 0 0 0 10.0000 12.91 0 0 0 10.0683 12.93 0 0 0 10.1667 12.97 0 0 0 10.2500 12.99 0 0 0 10.3333 13.02 0 0 0 10.4167 13.05 0 0 0 10.5000 13.08 0 0 0 10.5603 13.14 0 0 0 10.5607 13.14 0 0 0 10.7500 13.17 0 0 0 10.8333 13.21 0 0 0 10.750	0	0	0	9.5000	12.77
0 0 0 9,7500 12.84 0 0 0 9,8333 12.86 0 0 0 9,9167 12.89 0 0 0 10,0000 12.91 0 0 0 10,0833 12.93 0 0 0 10,1667 12.97 0 0 0 10,2500 12.99 0 0 0 10,3333 13.02 0 0 0 10,4167 13.05 0 0 0 10,5000 13.05 0 0 0 10,5603 13.11 0 0 0 10,5833 13.11 0 0 0 10,5603 13.14 0 0 0 10,5607 13.14 0 0 0 10,7500 13.17 0 0 0 10,833 13.21 0 0 10,75		0	0		
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0 0 0 9,833 12,86 0 0 0 0 9,9167 12,89 0 0 0 0 0 10,0000 12,91 0 0 0 0 10,0000 12,91 0 0 0 0 10,063 12,93 0 0 0 0 10,1667 12,97 0 0 0 0 0 10,2500 12,99 0 0 0 0 10,333 13,02 0 0 0 0 10,4167 13,05 0 0 0 0 10,5000 13,08 0 0 0 10,500 13,08 0 0 0 10,500 13,18 0 0 0 0 10,500 13,18 0 0 0 0 10,503 13,11 0 0 0 0 10,503 13,11 0 0 0 0 10,503 13,14 0 0 0 0 10,503 13,14 0 0 0 0 10,500 13,14 0 0 0 0 10,500 13,14 0 0 0 0 10,500 13,14 0 0 0 0 10,500 13,14	0	0	0	9.7500	12.84
0 0 0 0 99167 12.89 0 0 0 0 10.0000 12.91 0 0 0 0 10.0833 12.93 0 0 0 0 10.1667 12.97 0 0 0 0 10.5600 12.99 0 0 0 0 10.3333 13.02 0 0 0 0 10.4167 13.05 0 0 0 0 10.4167 13.05 0 0 0 0 10.5333 13.11 0 0 0 0 10.5333 13.11 0 0 0 0 10.6667 13.14 0 0 0 0 10.6637 13.14 0 0 0 0 10.6633 13.17 0 0 0 0 10.8333 13.27 0 0 0 0 10.8333 13.27 0 0 0 0 10.8333 13.27 0 0 0 0 10.8333 13.27 0 0 0 0 10.8333 13.27		0	0		12.86
0 0 0 10.0000 12.91 0 0 0 0 10.0833 12.93 0 0 0 0 10.1667 12.97 0 0 0 0 0 10.2500 12.99 0 0 0 0 10.333 13.02 0 0 0 0 10.4167 13.05 0 0 0 0 10.5000 13.18 0 0 0 0 10.5000 13.18 0 0 0 0 10.5000 13.14 0 0 0 0 10.500 13.14 0 0 0 0 10.500 13.14 0 0 0 0 10.500 13.14 0 0 0 0 10.500 13.14 0 0 0 0 10.500 13.14 0 0 0 0 10.950 13.14 0 0 0 0 10.950 13.17 0 0 0 0 10.950 13.17 0 0 0 0 10.933 13.21		0	0		
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Year	Month	Day	Hour	Stage [ft]	
0	0	0	3.0000	, ,	11.88
0	0	0	3.0834		11.89
0	0	0	3.1667		11.89
0	0	0	3.2500		11.89
0	0	0	3.3333		11.90
0	0	0	3.4167		11.91
0	0	0	3.5000		11.91
0	0	0	3.5834		11.92
0	0	0	3.6667		11.92
0	0	0	3.7500		11.93
0	0	0	3.8334		11.93
0	0	0	3.9167		11.94
0	0	0	4.0000		11.95
0	0	0	4.0834		11.95
0	0	0	4.1667		11.96
0	0	0	4.2501		11.97
0	0	0	4.3334		11.97
0	0	0	4.4167		11.98
0	0	0	4.5000		11.99
0	0	0	4.5834		11.99
0	0	0	4.6667		12.00
0	0	0	4.7500		12.00
0	0	0	4.8334		12.01
	0	0			12.02
0	0		4.9167		
0	0	0	5.0000		12.03
	0		5.0833		12.04
0	0	0	5.1667 5.2500		12.05
					12.06
0	0	0	5.3334		12.07
0	0	0	5.4167		12.08
0	0	0	5.5000		12.09
0	0	0	5.5833		12.09
0	0	0	5.6667		12.10
0	0	0	5.7500		12.11
0	0	0	5.8333		12.12
0	0	0	5.9167		12.13
0	0	0	6.0000		12.14
0	0	0	6.0834		12.15
0	0	0	6.1667		12.16
0	0	0	6.2500		12.17
0	0	0	6.3333		12.18
0	0	0	6.4167		12.20
0	0	0	6.5000		12.21
0	0	0	6.5833		12.22
0	0	0	6.6667		12.23
0	0	0	6.7500		12.24
0	0	0	6.8334		12.25
0	0	0	6.9167		12.27
0	0	0	7.0000		12.28

02 PCM Inputs

	Month	Day	Hour	Stage [ft]
0	0	0	11.1667	
0	0	0	11.2500	
0	0	0	11.3333	
0	0	0	11.4167	
0	0	0	11.5000	
0	0	0	11.5834	
0	0	0	11.6667	
0	0	0	11.7500	
0	0	0	11.8334	
0	0	0	11.9167	
0	0	0	12.0000	
0	0	0	12.0833	
0	0	0	12.1667	
0	0	0	12.2500	
0	0	0	12.3334	
0	0	0	12.4167	
0	0	0	12.5000	
0	0	0	12.5833	
0	0	0	12.6667	
0	0	0	12.7500	
0	0	0	12.8333	
0	0	0	12.9167	
0	0	0	13.0000	
0	0	0	13.0833	
0	0	0	13.1667	
0	0	0	13.2500	
0	0	0	13.3333	
0	0	0	13.4167	
0	0	0	13.5000	
0	0	0	13.5834	
0	0	0	13.6667	
0	0	0	13.7500	
0	0	0	13.8334	
0	0	0	13.9167	
0	0	0	14.0000	
0	0	0	14.0834	
0	0	0	14.1667	
0	0	0	14.2500	
0	0	0	14.3334	
0	0	0	14.4167	
0	0	0	14.5000	
)	0	0	14.5834	
0	0	0	14.5834	
)	0	0	14.7500	
0	0	0	14.8334	
0	0	0	14.8334	
0	0	0	15.0000	
0	0	0	15.0834 15.1667	

Month

Day Hour Stage [ft]

19.3334 19.4167 19.5000 19.5834 19.6667 19.7500 19.8334 19.9167 20.0000 20.0834 20.1667

20.2500 20.3334 20.4167 20.5000 20.5834 20.6667 20.7500 20.8334 20.9167 21.0000 21.0834 21.1667 21.2500

21.3334 21.4167 21.5000 21.5834 21.6667 21.7500 21.8334 21.9167 22.0000 22.0834 22.1667 22.2500 22.3334 22.4167 22.2500

22.5000 22.5834 22.6667 22.7500 22.8334 22.9167 23.0000 23.0834 23.1667 23.2500 23.3334

Year	Month	Day	Hour	Stage [ft]
0	0	0	15.2500	17.94
0	0	0	15.3334	17.92
0	0	0	15.4167	17.92
0	0	0	15.5000	17.41
0	0	0	15.5834	17.89
0	0	0	15.6667	17.85
0	0	0	15.7500	17.83
0	0	0	15.8334	17.81
0	0	0	15.9167	17.80
0	0	0	16.0000	17.78
0	0	0	16.0834	17.76
0	0	0	16.1667	17.74
0	0	0	16.2500	17.71
0	0	0	16.3334	17.69
0	0	0	16.4167	17.67
0	0	0	16.5000	17.65
0	0	0	16.5834	17.63
0	0	0	16.6667	17.60
0	0	0	16.7500	17.58
0	0	0	16.8334	17.56
0	0	0	16.9167	17.54
0	0	0	17.0000	17.52
0	0	0	17.0834	17.50
0	0	0	17.1667	17.47
0	0	0	17.2500	17.45
0	0	0	17.3334	17.43
0	0	0	17.4167	17.41
0	0	0	17.5000	17.38
0	0	0	17.5834	17.36
0	0	0	17.6667	17.34
0	0	0	17.7500	17.32
0	0	0	17.8334	17.30
0	0	0	17.9167	17.27
0	0	0	18.0000	17.25
0	0	0	18.0834	17.23
0	0	0	18.1667	17.21
0	0	0	18.2500	17.21
0	0	0	18.3334	17.14
0	0	0	18.3334	17.16
0	0	0	18.4167	17.14
0	0	0	18.5834	17.10
0	0	0	18.6667	17.08
0	0	0	18.7500	17.06
0	0	0	18.8334	17.04
0	0	0	18.9167	17.02
0	0	0	19.0000	17.01
0	0	0	19.0834	16.99
0	0	0	19.1667	16.97
0	0	0	19.2500	16.95

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02 PCM Inputs	10

Year	Month	Day	Hour	Stage [ft]
0	0	0	23.4167	16.18
0	0	0	23.5000	16.17
0	0	0	23.5834	16.15
0	0	0	23.6667	16.14
0	0	0	23.7500	16.13
0	0	0	23.8334	16.11
0	0	0	23.9167	16.10
0	0	0	24.0000	16.09
0	0	0	24.0834	16.07
0	0	0	24.1667	16.06
0	0	0	24.2500	16.04
0	0	0	24.3334	16.03
0	0	0	24.4167	16.02
0	0	0	24.5000	16.00
0	0	0	24.5834	15.98
0	0	0	24.6667	15.97
0	0	0	24.7500	15.95
0	0	0	24.8334	15.94
0	0	0	24.9167	15.92
0	0	0	25.0000	15.92
0	0	0	25.0834	15.86
0	0	0	25.1667	15.87
0	0	0	25.2500	15.85
0	0	0	25.3334	15.83
0	0	0	25.4167	15.81
0	0	0	25.5000	15.79
0	0	0	25.5834	15.79
0	0	0	25.6667	15.76
0	0	0	25.7500	15.74
0	0	0	25.8334	15.74
0	0	0	25.9167	15.72
0	0	0	26.0000	15.68
0	0	0	26.0834	15.66
0	0	0	26.1667	15.64
0	0	0	26.2500	15.62
0	0	0	26.3334	15.60
0	0	0	26.4167	15.58
0	0	0	26.5000	15.56
0	0	0	26.5834	15.54
0	0	0	26.5834	15.52
0	0	0	26.7500	15.52
0	0			
0	0	0	26.8334 26.9167	15.49 15.47
0	0	0	27.0000	15.45
0	0	0	27.0000	15.45
0	0	0	27.1667	15.43
0	0	0	27.1667	15.41
0	0	0		
0	0	0	27.3334 27.4167	15.37
U	U	U	27.4167	15.35

16.93 16.91 16.89 16.88

16.86 16.84 16.83 16.81 16.80 16.78 16.76 16.75 16.73

16.72 16.70 16.69 16.67 16.65 16.64 16.62 16.61 16.59 16.57 16.56 16.54 16.53 16.51 16.50 16.48

16.45 16.44 16.42 16.41 16.39 16.38 16.36 16.35 16.33

16.32 16.31 16.29 16.28 16.26 16.25 16.24 16.22 16.21 16.19

Year	Month	Day	Hour	Stage [ft]	
0	0	0	27.5000	g- ()	15.3
0	0	0	27.5834		15.3
)	0	0	27.6667		15.2
)	0	0	27.7500		15.2
0	0	0	27.8334		15.2
)	0	0	27.9167		15.2
0	0	0	28.0000		15.2
0	0	0	28.0834		15.1
0	0	0	28.1667		15.1
0	0	0	28.2500		15.1
0	0	0	28.3334		15.1
0	0	0	28.4167		15.1
0	0	0	28.5000		15.0
0	0	0	28.5834		15.0
)	0	0	28.6667		15.
0	0	0	28.7500		15.
0	0	0	28.8334		15.0
0	0	0	28.9167		15.0
0	0	0	29.0000		14.9
0	0	0	29.0834		14.9
0	0	0	29.1667		14.9
0	0	0	29.2500		14.
0	0	0	29.3333		14.
0	0	0	29.4167		14.8
0	0	0	29.5000		14.8
0	0	0	29.5833		14.
0	0	0	29.6667		14.8
0	0	0	29.7500		14.8
0	0	0	29.8333		14.8
0	0	0	29.9167		14.1
0	0	0	30.0000		14.1
0	0	0	30.0834		14.1
0	0	0	30.1667		14.1
0	0	0	30.2500		14.1
0	0	0	30.3334		14.6
0	0	0	30.4167		14.6
0	0	0	30.5000		14.6
0	0	0	30.5834		14.6
0	0	0	30.6667		14.6
0	0	0	30.7500		14.6
0	0	0	30.8334		14.
0	0	0	30.9167		14.5
0	0	0	31.0000		14.5
0	0	0	31.0834		14.5
0	0	0	31.1667		14.
0	0	0	31.2500		14.
0	0	0	31.3333		14.4
0	0	0	31.4167		14
0	0	0	31.5000		14

Year	Month	Day	Hour	Stage [ft]
0	0	0	31.5833	14.44
0	0	0	31.6667	14.43
0	0	0	31.7500	14.43
	0			
0		0	31.8333	14.40
0	0	0	31.9167	14.38
0	0	0	32.0000	14.37
0	0	0	32.0833	14.35
0	0	0	32.1667	14.34
0	0	0	32.2500	14.32
0	0	0	32.3334	14.31
0	0	0	32.4167	14.29
0	0	0	32.5000	14.28
0	0	0	32.5834	14.26
0	0	0	32.6667	14.25
0	0	0	32.7500	14.24
0	0	0	32.8334	14.22
0	0	0	32.9167	14.21
0	0	0	33.0000	14.19
0	0	0	33.0834	14.18
0	0	0	33.1667	14.17
0	0	0	33.2500	14.15
0	0	0	33.3333	14.14
0	0	0	33.4167	14.13
0	0	0	33.5000	14.11
0	0	0	33.5833	14.10
0	0	0	33.6667	14.09
0	0	0	33.7500	14.08
0	0	0	33.8333	14.06
0	0	0	33.9167	14.05
0	0	0	34.0000	14.03
0	0	0	34.0833	14.03
0	0	0	34.1667	14.03
0	0	0	34.2500	14.00
			34.3333	13.99
0	0	0	34.4167	13.98
0	0	0	34.5000	13.97
0	0	0	34.5833	13.95
0	0	0	34.6667	13.94
0	0	0	34.7500	13.93
0	0	0	34.8333	13.92
0	0	0	34.9167	13.91
0	0	0	35.0000	13.90
0	0	0	35.0833	13.88
0	0	0	35.1667	13.87
0	0	0	35.2500	13.86
0	0	0	35.3333	13.85
0	0	0	35.4167	13.84
0	0	0	35.5000	13.83
0	0	0	35.5833	13.82

02 PCM Inputs	14	

Year	Month	Day	Hour	Stage [ft]
0	0	0	39.7500	13.36
0	0	0	39.8334	13.36
0	0	0	39.9167	13.35
0	0	0	40.0000	13.34
0	0	0	40.0834	13.33
0	0	0	40.1667	13.33
0	0	0	40.2500	13.32
0	0	0	40.3334	13.31
0	0	0	40.4167	13.30
0	0	0	40.5000	13.30
0	0	0	40.5834	13.39
0	0	0	40.6667	13.29
0	0	0	40.7500	13.28
0	0	0	40.8334	13.26
0	0	0	40.8334	13.27
0	0	0		13.25
0	0	0	41.0000 41.0834	13.25
	0			
0		0	41.1667	13.24
0	0	0	41.2500	13.23
0	0	0	41.3334	13.23
0	0	0	41.4167	13.22
0	0	0	41.5000	13.21
0	0	0	41.5834	13.21
0	0	0	41.6667	13.20
0	0	0	41.7500	13.19
0	0	0	41.8334	13.19
0	0	0	41.9167	13.18
0	0	0	42.0000	13.17
0	0	0	42.0834	13.17
0	0	0	42.1667	13.16
0	0	0	42.2500	13.16
0	0	0	42.3334	13.15
0	0	0	42.4167	13.14
0	0	0	42.5000	13.14
0	0	0	42.5834	13.13
0	0	0	42.6667	13.12
0	0	0	42.7500	13.12
0	0	0	42.8334	13.11
0	0	0	42.9167	13.11
0	0	0	43.0000	13.10
0	0	0	43.0834	13.09
0	0	0	43.1667	13.09
0	0	0	43.2500	13.08
0	0	0	43.3334	13.08
0	0	0	43.4167	13.07
0	0	0	43.5000	13.06
0	0	0	43.5834	13.06
0	0	0	43.6667	13.05
0	0	0	43.7500	13.05

02 PCM Inputs

Month Day Hour Stage [ft]

35.6667 35.7500 35.8333 35.9167 36.0000 36.0833 36.1667 36.2500 36.3333 36.4167 36.5000

36.5833 36.6667 36.7500 36.8334 36.9167 37.0000

37.0000 37.0834 37.1667 37.2500 37.3334 37.4167 37.5000 37.5834

37.6667 37.7500 37.8334 37.9167 38.0000 38.0834

38.0834 38.1667 38.2500 38.3334 38.4167 38.5000 38.5834 38.6667 38.7500 38.8334

38.8334 38.9167 39.0000 39.0834 39.1667 39.2500 39.3334 39.4167 39.5000 39.5834 39.6667 13.81 13.80 13.79 13.78

13.78 13.76 13.75 13.74 13.73 13.72 13.71 13.70

13.69 13.68

13.67 13.66 13.65 13.64

13.64 13.63 13.62 13.61 13.60 13.59 13.58 13.57 13.56

13.55 13.54 13.54 13.53

13.52 13.51 13.50 13.49 13.48 13.48 13.47 13.46 13.45

13.44 13.43 13.42 13.41 13.40 13.39 13.39

13.38

Year	Month	Day	Hour	Stage [ft]
0	0	0	43.8334	13
0	0	0	43.9167	13
0	0	0	44.0000	13
0	0	0	44.0833	13
0	0	0	44.1667	13
0	0	0	44.2500	13
0	0	0	44.3333	13
0	0	0	44.4167	13
0	0	0	44.5000	13
0	0	0	44.5833	12
0	0	0	44.6667	12
0	0	0	44.7500	12
0	0	0	44.8334	12
0	0	0	44.9167	12
0	0	0	45.0000	12
0	0	0	45.0833	12
0	0	0	45.1667	12
0	0	0	45.2500	12
0	0	0	45.3333	12
0	0	0	45.4167	12
0	0	0	45.5000	12
0	0	0	45.5833	12
0	0	0	45.6667	12
0	0	0	45.7500	12
0	0	0	45.8334	12
0	0	0	45.9167	12
0	0	0	46.0000	12
0	0	0	46.0834	12
0	0	0	46.1667	12
0	0	0	46.2500	12
0	0	0	46.3334	12
0	0	0	46.4167	12
0	0	0	46.5000	12
0	0	0	46.5833	12
0	0	0	46.6667	12
0	0	0	46.7500	12
0	0	0	46.8333	12
0	0	0	46.9167	12
0	0	0	47.0000	12
0	0	0	47.0834	12
0	0	0	47.1667	12
0	0	0	47.2500	12
0	0	0	47.3333	12
0	0	0	47.4167	12
0	0	0	47.5000	12
0	0	0	47.5833	12
0	0	0	47.6667	12
0	0	0	47.7500	12
0	0	0	47.8333	12

Year	Month	Day	Hour	Stage [ft]
0	0	0	47.9167	12.79
0	0	0	48.0000	12.79

Comment: Stage information found in from Bowlees Creek Model

Node BC_C00630_N

Node: ECG-01 Scenario: PCM

Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 0.00 ft

Stage [ft]	Area [ac]	Area [ft2]
21.00	1.4100	61420
17.50	1.0300	44867

Comment: From Drawdown Clac Wet Pond Excel Sheet: PERVIOUS 2.40 DCIA 3.31 WATER 1.03 CWL - 1.03 AC 0.00 Breakline - 0.74 AC 3.00 Bottom - 0.56 AC 8.00

Drop Structure Link:		Upstrea	am Pipe	Downst	ream Pipe
		Invert:	14.29 ft	Invert:	12.90 ft
Scenario:	PCM	Manning's N:	0.0130	Manning's N:	0.0130
From Node:	ECG-01	Geometry	: Circular	Geometi	ry: Circular
To Node:	BC_C00630_N	Max Depth:	1.50 ft	Max Depth:	1.50 ft
Link Count:	1				
Flow Direction:	Both	Default:	0.00 ft	Default:	0.00 ft
Solution:	Combine	Op Table:		Op Table:	
Increments:	0	Ref Node:		Ref Node:	
Pipe Count:	1	Manning's N:	0.0130	Manning's N:	0.0130
Damping:	0.0000 ft				
Length:	47.00 ft	Default:	0.00 ft	Default:	0.00 ft
FHWA Code:	1	Op Table:		Op Table:	

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03 PCM Results

Simulation: 100YR 24HR Scenario: PCM

Run Date/Time: 4/8/2025 7:59:32 AM

Program Version: ICPR4 4.07.04

Hour [hr] Month Start Time: End Time: 48.0000

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

Restart File

Boundary Stage Set: 100YR 24HR
Extern Hydrograph Set:
Curve Number Set: CN Rainfall Folder: Icpr3 Unit Hydrograph Icpr3 Folder: Green-Ampt Set:

Vertical Layers Set: Impervious Set: Impervious

IA Recovery Time: 24.0000 hr

Time Marching: SAOR Max Iterations: 6
Over-Relax Weight 0.5 dec Fact:

dZ Tolerance: 0.0010 ft Smp/Man Basin Rain Global 02 PCM Inputs

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Entr Loss Coef: 0.50 Ref Node: Ref Node: Exit Loss Coef: 1.00
Bend Loss Coef: 0.00
Bend Location: 0.00 dec Manning's N: 0.0130 Manning's N: 0.0130

Energy Switch: Energy

Pipe Comment:

Weir Count: Default: 0.00 ft Op Table: Ref Node: Top Clip Weir Flow Direction: Both
Damping: 0.0000 ft Weir Type: Sharp Creste Geometry Type: Rectangular Invert: 17.50 ft Control Elevation: 17.50 ft Max Depth: 1.60 ft Max Width: 1.10 ft Sharp Crested Vertical Default: 0.00 ft Op Table: Ref Node: Discharge Coefficients Weir Default: 3.200 Fillet: 0.00 ft Weir Table:

Weir Comment:

Weir Component Weir: Weir Count: Default: 0.00 ft Weir Flow Direction: Both Op Table: Damping: 0.0000 ft
Weir Type: Sharp Crested Vertical
Geometry Type: Rectangular
Invert: 19.10 ft Op Table: Control Elevation: 17.50 ft
Max Depth: 99999.00 ft
Max Width: 6.00 ft Ref Node:
Discharge Coefficient
Weir Default: 3.200 Fillet: 0.00 ft Weir Table: Orifice Default: 0.600

Orifice Default: 0.600 Orifice Table:

Orifice Table:

Weir Comment:

Drop Structure Commer

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Opt: Max dZ: 1.0000 ft Link Optimizer Tol: 0.0001 ft Rainfall Name: ~FLMOD Rainfall Amount: 10.00 in Edge Length Option: Automatic Storm Duration: 24.0000 hr

> Dflt Damping (1D): 0.0050 ft Min Node Srf Area 113 ft2 (1D): Energy Switch (1D): Energy

Comment:

03 PCM Results

Simulation: 25YR 24HR Scenario: PCM

Run Date/Time: 4/8/2025 7:59:51 AM Program Version: ICPR4 4.07.04

Run Mode: Normal

Hour [hr] Start Time: 0 0.0000 48.0000 0 End Time:

> Hydrology [sec] Surface Hydraulics [sec] 0.1000

Min Calculation Time: Max Calculation Time 60.0000

03 PCM Results

Resources

Rainfall Folder: Icpr3 Boundary Stage Set: 100YR 24HR
Extern Hydrograph Set:

Unit Hydrograph Icpr3 Curve Mumber Set: ON

Folder:

Green-Ampt Set:

Green-Ampt Set: Vertical Layers Set: Impervious Set: Impervious

Tolerances & Options

Comment

Manual Basin Runoff Summary [PCM]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow	Total Rainfall	Total Runoff [in]	Area [ac]	Equivalent Curve	% Imperv	% DCIA
			[hrs]	[in]			Number		
ECG-01	100YR	39.15	12.0000	10.00	9.11	6.7454	92.7	49.05	49.05
	24HR								
ECG-01	25YR	30.76	12.0000	8.00	7.15	6.7454	92.9	49.05	49.05
	24HR								

Node Max Conditions [PCM]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]		Max Total Outflow [cfs]	Max Surface Area [ft2]	
BC_C00630_ N	100YR 24HR	0.00	18.18	0.0180	11.86	0.00	0	
BC_C00630_	25YR 24HR	0.00	18.18	0.0180	7.03	0.00	0	

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APPENDIX E

INTERNAL STORMWATER HYDRAULIC GRADE LINE (HGL) ANALYSIS

E-1. Internal Stormwater Hydraulic Grade Line

- 1. Model Input
- 2. Model Results

03 PCM Results 4

Node Name	Sim Name	Warning Stage [ft]	 	 Max Total Outflow [cfs]	Max Surface Area [ft2]
N					

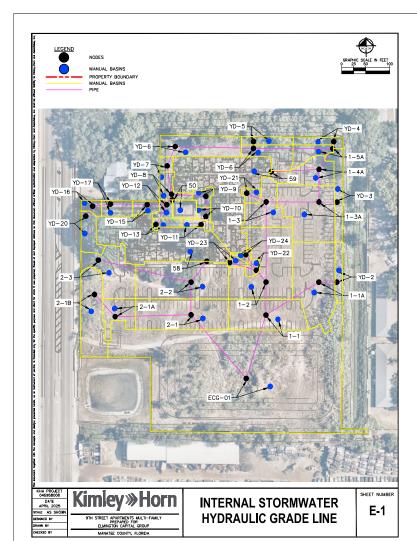
Node Max Conditions [PCM]

	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]			Max Surface Area [ft2]
ECG-01	100YR 24HR	0.00	19.52	0.0010	39.15	11.87	54416
ECG-01	25YR 24HR	0.00	19.20	-0.0010	30.75	7.03	52917

Link Min/Max Conditions [PCM]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]	Max Ds Velocity [fps]	Max Avg Velocity [fps]
DSL-01-BC_C 00630_N - Pipe	100YR 24HR	11.86	0.00	-0.03	0.00	0.00	0.0
DSL-01-BC_C 00630_N - Weir: 1	100YR 24HR	8.75	0.00	-0.03	4.97	4.97	4.9
DSL-01-BC_C 00630_N - Weir: 2	100YR 24HR	5.11	0.00	0.02	2.05	2.05	2.0
DSL-01-BC_C 00630_N - Pipe	25YR 24HR	7.03	0.00	-0.02	0.00	0.00	0.0
DSL-01-BC_C 00630_N - Weir: 1	25YR 24HR	7.03	0.00	-0.01	4.03	4.03	4.0
DSL-01-BC_C 00630_N - Weir: 2	25YR 24HR	0.63	0.00	-0.01	1.02	1.02	1.0

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Simulation: 100YR 24HR

Hour [hr] Start Time: End Time: 48.0000

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

False

Rainfall Folder: Icpr3

Folder:

Boundary Stage Set: 100YR 24HR
Extern Hydrograph Set:
Curve Number Set: CN

Green-Ampt Set: Vertical Layers Set: Impervious Set: Impervious

Time Marching: SAOR Max Iterations: 6
Over-Relax Weight 0.5 dec

Fact: dZ Tolerance: 0.0010 ft

IA Recovery Time: 24.0000 hr

Smp/Man Basin Rain Global

02 Internal Inputs

Lookup Tables
Boundary Stage Set: 25YR 24HR
Extern Hydrograph Set:
Curve Number Set: CN Rainfall Folder: Icpr3

Unit Hydrograph Icpr3 Folder: Green-Ampt Set:

Vertical Layers Set: Impervious Set: Impervious

Time Marching: SAOR IA Recovery Time: 24.0000 hr Max Iterations: 6

Over-Relax Weight 0.5 dec Fact: dZ Tolerance: 0.0010 ft

Smp/Man Basin Rain Global

Max dZ: 1.0000 ft Link Optimizer Tol: 0.0001 ft Rainfall Name: ~FLMOD Rainfall Amount: 8.00 in Storm Duration: 24.0000 hr

Edge Length Option: Automatic Dflt Damping (1D): 0.0050 fl Min Node Srf Area 113 ft2

(1D): Energy Switch (1D): Energy

Manual Basin: 1-1

Node: 1-1 Node: 1-1
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable O: 0.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.2314 a

Comment

02 Internal Inputs

Max dZ: 1.0000 ft Link Optimizer Tol: 0.0001 ft Rainfall Name: ~FLMOD Rainfall Amount: 10.00 in Edge Length Option: Automatic Storm Duration: 24.0000 hr

> Dflt Damping (1D): 0.0050 ft Min Node Srf Area 113 ft2 (1D): Energy Switch (1D): Energy

Opt:

Simulation: 25YR 24HR

Scenario: INTERNAL | Scenario: INTERNAL | Run Date/Time: 4/8/2025 7:58:25 AM | Program Version: ICPR4 4.07.04

Run Mode: Normal

Start Time: 0.0000 48.0000 End Time:

Hydrology [sec] Surface Hydraulics

[sec] 0.1000 Min Calculation Time: Max Calculation Time 60.0000

02 Internal Inputs

Manual Basin: 1-1A

Scenario: INTERNAL Node: 1-1A Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number Time of Concentration: 10.0000 min

Max Allowable Q: 0.00 cfs

Time Shift: 0.0000 hr

Unit Hydrograph: Peaking Factor: UH256 256.0

0.2545 Impervious 0.0722 Pervious A/D A/D

Scenario: INTERNAL

Node: 1-2 Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number Time of Concentration: 10.0000 min Max Allowable Q: 0.00 cfs Time Shift: 0.0000 hr

Unit Hydrograph: Peaking Factor: UH256 256.0

Land Cover Zone 0.2909 Impervious 0.0724 Pervious

Comment:

Manual Basin: 1-3

Node: 1-3 Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.1411

02 Internal Inputs

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
0.0995	Impervious	A/D	
0.0416	Pervious	A/D	

Comment:

Scenario: INTERNAL Node: 1-3A Method: NRCS Unit Hydrograph Hydrograph Method: NRCS Unit Hydrograph Method: Curve Number Time of Concentration: 10.0000 min

Max Allowable Q: 0.00 cfs

Time Shift: 0.0000 hr Unit Hydrograph: UH256 Peaking Factor: 256.0

0.0553 Pervious 0.2312 Impervious

Scenario: INTERNAL Node: 1-4A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min Max Allowable Q: 0.00 cfs Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0 Area: 0.1275

Land Cover Zone 0.0900 Impervious

Comment:

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02 Internal Inputs

Land Cover Zone Soil Zone Rainfall Name

Comment

Manual Basin: 2-1A

Node: 2-1A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256 Peaking Factor: 256.0

Scenario: INTERNAL

0.0845 Impervious

Manual Basin: 2-1B

Scenario: INTERNAL Node: 2-1B Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs

Time Shift: 0.0000 hr Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.2116

Land Cover Zon

Scenario: INTERNAL Node: 2-2

Node: 1-5A

Hydrograph Method: NRCS Unit Hydrograph Inflitration Method: Curve Number Time of Concentration: 10.0000 min Max Allowable Q: 0.00 cfs Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Comment:

Manual Basin: 1-6

Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number Intilitration Method: Curve Numbe
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.0910 ac

0.0304 Pervious A/D 0.0606 Impervious A/D

Manual Basin: 2-1

Scenario: INTERNAL Node: 2-1 Hydrograph Method: Infiltration Method: Time of Concentration: NRCS Unit Hydrograph Curve Number 10.0000 min Max Allowable Q: 0.00 cfs Time Shift: 0.0000 hr Unit Hydrograph: UH256

Peaking Factor: 256.0 Area: 0

02 Internal Inputs

Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number Time of Concentration: 10.0000 min Max Allowable O: 0.00 cfs
Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0

Land Cover Zon 0.3061 Impervious 0.0383 Pervious

Manual Basin: 2-3

INTERNA

Node: Hydrograph Method: Infiltration Method: Curve Number Time of Concentration: 10.0000 min

Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

0.1498 Impervious A/D

Scenario: INTERNA Node: 50

Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number Time of Concentration: 10.0000 min Max Allowable Q: 0.00 cfs

Time Shift: 0.0000 hr Unit Hydrograph: UH256 Peaking Factor: 256.0

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Comment:

Scenario: INTERNAL
Node: 58
Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number Time of Concentration: 10.0000 min Max Allowable Q: 0.00 cfs Time Shift: 0.0000 hr

Unit Hydrograph: UH256 Peaking Factor: 256.0 Area: 0.4489

0.4489 Impervious

Comment:

Scenario: INTERNAL Node: 59

Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number Time of Concentration: 10.0000 min Max Allowable Q: 0.00 cfs

Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.4980 ac Area: 0.4980 Land Cover Zone

Comment:

Scenario: INTERNAL Node: ECG-01 Hydrograph Method: NRCS Unit Hydrograph

Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs

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Comment:

Manual Basin: YD-12
Scenario: INTERNAL
Node: YD-12
Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number Time of Concentration: 10.0000 min Max Allowable Q: 0.00 cfs Time Shift: 0.0000 hr

Unit Hydrograph: UH256 Peaking Factor: 256.0 Area: 0.0269

Land Cover Zone 0.0187 Impervious 0.0082 Pervious

Comment:

Manual Basin: YD-13

Scenario: INTERNAL

Node: YD-13
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min

Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0 Area: 0.0268 a

Land Cover Zone 0.0128 Pervious 0.0140 Impervious

Comment

Node: YD-15 Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number Time of Concentration: 10.0000 min

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Time Shift: 0.0000 hr Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 2.1450

0.2089 Water 0.8245 Water A/D 0.0222 Impervious A/D

Manual Basin: YD-10 Scenario: INTERNAL

Node: YD-10 Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number Time of Concentration: 10.0000 min Max Allowable Q: 0.00 cfs Time Shift: 0.0000 hr Unit Hydrograph: UH256 Peaking Factor: 256.0

Area: 0.0183 a

0.0068 Impervious

Manual Basin: YD-11

Scenario: INTERNAL Node: YD-11

Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.0270:
Land Cover Zone

0.0145 Pervious 0.0125 Impervio

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02 Internal Inputs

Max Allowable Q: 0.00 cfs Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.0352 ac

0.0101 Impervious

Comment:

Manual Basin: YD-16

Scenario: INTERNAL Node: YD-16 Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number
Time of Concentration: 10,0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr

Time Shift: 0.0000 h
Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.0271 a

0.0062 Impervious 0.0209 Pervious

Manual Basin: YD-17

Scenario: INTERNAL Node: VD-17 Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min

Time of Concentration: Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 0.04 Land Cover Zone 0.0489 0.0194 Impervious 0.0295 Pervious

Comment:

Scenario: INTERNAL Node: YD-2 Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number Time of Concentration: 10.0000 min

Max Allowable Q: 0.00 cfs

Time Shift: 0.0000 hr Unit Hydrograph: UH256
Peaking Factor: 256.0

0.0472

Area: 0.0472 0.0472 Pervious

Comment

Node: YD-20 Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.0540:

Manual Basin: YD-21

Scenario: INTERNAL
Node: YD-21
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number Time of Concentration: 10.0000 min Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256 Peaking Factor: 256.0 Area: 0.0248 ac

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Node: YD-24

Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number Time of Concentration: 10.0000 min Max Allowable Q: 0.00 cfs Time Shift: 0.0000 hr Unit Hydrograph: Peaking Factor: UH256 256.0

Comment:

Manual Basin: YD-3

Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number Time of Concentration: 10.0000 min

Max Allowable Q: 0.00 cfs

Time Shift: 0.0000 hr Unit Hydrograph: UH256 Peaking Factor: 256.0 Area: 0.0895

0.0873 Pervious 0.0021 Impervious

Comment:

Manual Basin: YD-4

Scenario: INTERNAL Node: YD-4
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0

Area: 0.0 0.0416

Comment:

Manual Basin: YD-22

Scenario: INTERNAL Node: YD-22 Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number Time of Concentration: 10.0000 min

Max Allowable Q: 0.00 cfs

Time Shift: 0.0000 hr Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.0205 :
Land Cover Zone

0.0147 Pervious 0.0058 Impervious

Manual Basin: YD-23

Scenario: INTERNAL Node: YD-23
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min Max Allowable Q: 0.00 cfs Time Shift: 0.0000 hr
Unit Hydrograph: UH256
Peaking Factor: 256.0 Area: 0.0177 a

Land Cover Zone 0.0126 Impervious 0.0051 Pervious

Manual Basin: YD-24
Scenario: INTERNAL

02 Internal Inputs

Land Cover Zone Soil Zone Rainfall Name

Comment

Manual Basin: YD-5

Scenario: INTERNAL Node: YD-5 Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number Time of Concentration: 10.0000 min

Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr
Unit Hydrograph: UH256 Peaking Factor: 256.0

0.0025 Impervious 0.0397 Pervious

Manual Basin: YD-6

Scenario: INTERNAL Node: YD-6

Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs Time Shift: 0.0000 hr

Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.1728 Land Cover Zo

Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs Time Shift: 0.0000 hr Unit Hydrograph: UH256
Peaking Factor: 256.0

0.0200 a

A 68. 0.0200 ac						
Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name			
0.0200	Pervious	A/D				

Comment:

Manual Basin: YD-8

Scenario: INTERNAL Node: YD-8
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.0000 min Max Allowable Q: 0.00 cfs Time Shift: 0.0000 hr Unit Hydrograph: UH256 Peaking Factor: 256.0 Area: 0.0525 ac

I	Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
į	0.0335	Pervious	A/D	
Į	0.0190	Impervious	A/D	

Comment:

Manual Basin: YD-9

Scenario: INTERNAL Node: YD-9 Hydrograph Method: NRCS Unit Hydrograph Infiltration Method: Curve Number
Time of Concentration: 10.0000 min
Max Allowable Q: 0.00 cfs
Time Shift: 0.0000 hr Unit Hydrograph: UH256
Peaking Factor: 256.0
Area: 0.0317 ac

Area [ac]	Land Cover Zone	Soil Zone	Rainfall Name
0.0076	Impervious	A/D	
0.0242	Pervious	A/D	

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17

Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 21.13 ft

Comment: Rim Elev: 21.13 Sump Elev: 13.47 Desc: VG INLET

Node: 1-3A

Type: Stage/Area
Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 20.50 ft

Comment: Rim Elev: 20.50 Sump Elev: 13.99 Desc: VG INLET

Node: 1-4A

Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 17.53 ft
Warning Stage: 20.50 ft

Comment: Rim Elev: 20.50 Sump Elev: 14.13 Desc: VG INLET

Node: 1-5A

Scenario: INTERNAL Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 20.50 ft

Comment:

Node: 1-1

Scenario: INTERNAL Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 20.50 ft

Comment: Rim Elev: 20.50 Sump Elev: 11.79 Desc: VG INLET

INTERNAL Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 20.50 ft

Comment: Rim Elev: 20.50 Sump Elev: 16.29 Desc: VG INLET

Node: 1-2

Scenario: INTERNAL Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 20.50 ft

Comment: Rim Elev: 20.50 Sump Elev: 11.92 Desc: VG INLET

Scenario: INTERNAL

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02 Internal Inputs

Comment: Rim Elev: 20.50 Sump Elev: 14.728 Desc: VG INLET

Node: 1-6

Scenario: INTERNAL Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 17.53 ft
Warning Stage: 20.50 ft

Comment: Rim Elev: 20.50 Sump Elev: 15.06 Desc: VG INLET

Node: 2-1

INTERNAL Type: Stage/Area
Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 20.50 ft

Comment: Rim Elev: 20.50 Sump Elev: 11.48 Desc: VG INLET

Node: 2-1A

Scenario: INTERNAL Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 21.08 ft

Comment: Rim Elev: 21.079 Sump Elev: 15.53 Desc: VG INLET

Node: 2-1B

Scenario: INTERNAL Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 20.50 ft

Comment: Rim Elev: 20.50 Sump Elev: 15.601 Desc: TYPE D DITCH BOTTOM

Node: 2-2

Scenario: INTERNAL Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 17.53 ft
Warning Stage: 21.08 ft

Comment: Rim Elev: 21.08 Sump Elev: 11.61 Desc: VG INLET

Node: 2-3

Scenario: INTERNAL Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 17.53 ft Warning Stage: 19.52 ft

Sump Elev: 12.338 Desc: VG INLET

Node: 50

Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 18.63 ft Warning Stage: 21.50 ft

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DCIA 3.31

WATER 1.03 Breakline - 0.74 AC 3.00 Bottom - 0.56 AC 8.00

Node: YD-10

Scenario: INTERNAL Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 17.95 ft
Warning Stage: 21.32 ft

Comment: Rim Elev: 21.32 Sump Elev: 17.95 Desc: YARD DRAIN

Node: YD-11

Scenario: INTERNAL Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.99 ft Warning Stage: 21.32 ft

Sump Elev: 17.99 Desc: YARD DRAIN

Node: YD-12

Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 19.53 ft
Warning Stage: 21.33 ft

Comment: Rim Elev: 21.325 Sump Elev: 16.19

23

Comment: Rim Elev: 19.34 Desc: Null Structure

Node: 58

Scenario: INTERNAL Initial Stage: 18.50 ft Warning Stage: 21.00 ft

Comment: Rim Elev: 19.58
Desc: STORM BUILDING CONNECTION(REFER TO PLUMBING PLAN FOR CONTINUATION)

Node: 59

INTERNAL Type: Stage/Area
Base Flow: 0.00 cfs Initial Stage: 18.50 ft Warning Stage: 21.00 ft

Comment: Rim Elev: 19.58

Desc: STORM BUILDING CONNECTION(REFER TO PLUMBING PLAN FOR CONTINUATION)

Node: ECG-01

Scenario: INTERNAL
Type: Time/Stage
Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 21.00 ft Boundary Stage: ECG-01

Comment: From Drawdown Clac Wet Pond Excel Sheet: Weir Width - 1.1'

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02 Internal Inputs

Desc: YARD DRAIN

Node: YD-13

Scenario: INTERNAL
Type: Stage/Area
Base Flow: 0.00 cfs

--M-st Stage: 19.14 ft Warning Stage: 21.07 ft

Comment: Rim Elev: 21.07 Sump Elev: 19.14 Desc: YARD DRAIN

Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 17.53 ft
Warning Stage: 21.14 ft

Scenario: INTERNAL Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 17.53 ft
Warning Stage: 21.00 ft

Comment: Rim Elev: 21.00 Sump Elev: 16.44 Desc: YARD DRAIN

Node: YD-17

INTERNAL Type: Stage/Area Base Flow: 0.00 cfs

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Initial Stage: 17.53 ft Warning Stage: 21.13 ft

Comment: Rim Elev: 21.13

Sump Elev: 16.501 Desc: YARD DRAIN

Node: YD-2

Scenario: INTERNAL Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 20.50 ft

Comment: Rim Elev: 20.50 Sump Elev: 16.48 Desc: YARD DRAIN

Node: YD-20

Scenario: INTERNAL Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 20.60 ft

Comment: Rim Elev: 19.0 Sump Elev: 16.00 Desc: YARD DRAIN

Node: YD-21

Scenario: INTERNAL Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 22.00 ft

Comment: Rim Elev: 22 Sump Elev: 18.19

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02 Internal Inputs

Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 17.53 ft
Warning Stage: 20.63 ft

Comment: Rim Elev: 20.63 Sump Elev: 16.48 Desc: YARD DRAIN

Node: YD-4

Scenario: INTERNAL Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 21.30 ft

Comment: Rim Elev: 20.16 Sump Elev: 17.29 Desc: YARD DRAIN

Node: YD-5

Scenario: INTERNAL
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 17.53 ft
Warning Stage: 21.50 ft

Comment: Rim Elev: 20.16 Sump Elev: 16.15 Desc: YARD DRAIN

Node: YD-6

Scenario: INTERNAL Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 21.80 ft Desc: YARD DRAIN

Desc. Tritto Dietii

Node: YD-22

Scenario: INTERNAL Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 21.61 ft

Comment: Rim Elev: 21.61 Sump Elev: 17.46 Desc: YARD DRAIN

Node: YD-23

Scenario: INTERNAL Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 22.00 ft

Comment: Rim Elev: 22.00 Sump Elev: 17.74 Desc: YARD DRAIN

Node: YD-24

Scenario: INTERNAL
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 17.53 ft
Warning Stage: 21.87 ft

Comment: Rim Elev: 21.87 Sump Elev: 18.92 Desc: YARD DRAIN

Node: YD-3

Scenario: INTERNAL

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Comment: Rim Elev: 21.80 Sump Elev: 15.38 Desc: YARD DRAIN

Node: YD-7

Scenario: INTERNAL Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 22.23 ft

Comment: Rim Elev: 22.23 Sump Elev: 15.47 Desc: YARD DRAIN

Node: YD-8

Scenario: INTERNAL Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.53 ft Warning Stage: 21.51 ft

Comment: Rim Elev: 21.51 Sump Elev: 15.59 Desc: YARD DRAIN

Node: YD-9

Scenario: INTERNAL Type: Stage/Area Base Flow: 0.00 cfs Initial Stage: 17.86 ft Warning Stage: 21.40 ft

Comment: Rim Elev: 21.40 Sump Elev: 17.86 Desc: YARD DRAIN

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Scenario:	INTERNAL	Invert:	14.63 ft	Invert:	14.29 ft
From Node:	1-3	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	1-2	Geometry	r: Circular	Geometi	ry: 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:	167.11 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:	0.00			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

Scenario:	INTERNAL	Invert:	16.78 ft		Invert:	12.79 ft
From Node:	1-1A	Manning's N:	0.0130		Manning's N:	0.0130
To Node:	1-1	Geometry	y: Circular		Geometry	r: 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:	129.83 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

Pipe Link: PIPE -08		Upst	ream	Dow	nstream
Scenario:	INTERNAL	Invert:	11.92 ft	Invert	: 11.79 ft
From Node:	1-2	Manning's N:	0.0130	Manning's N	: 0.0130
To Node:	1-1	Geometry			
Link Count:	1	Max Depth:	2.50 ft	Max Depth	: 2.50 ft
Flow Direction:	Both				
Damping:	0.0000 ft	Default:	0.00 ft	Default	: 0.00 ft
Length:	68.77 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:	0.00				

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From Node:	2-2	Manning's N:	0.0130	Manning's	N: 0.0130	
To Node:	2-1	Geometry	y: Circular	Geon	netry: Circular	
Link Count:	1	Max Depth:	2.00 ft	Max Dep	oth: 2.00 ft	
Flow Direction:	Both			Bottom Clip		
Damping:	0.0000 ft	Default:	0.00 ft	Defa	ult: 0.00 ft	
Length:	68.40 ft	Op Table:		Op Tal	ole:	
FHWA Code:	1	Ref Node:		Ref No	de:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's	N: 0.0000	
Exit Loss Coef:	0.00					
Bend Loss Coef:	0.00	Default:	0.00 ft	Defa	ult: 0.00 ft	
Bend Location:	0.00 dec	Op Table:		Op Tal	ole:	
Energy Switch:	Energy	Ref Node:		Ref No	de:	
		Manning's N:	0.0000	Manning's	N: 0.0000	

Scenario:	INTERNAL	Invert:	12.34 ft	Invert	11.94 ft
From Node:	2-3	Manning's N:	0.0130	Manning's N	0.0130
To Node:	2-2	Geometr			
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:	204.54 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

Pipe Link: PIPE -13 (
Scenario:	INTERNAL	Invert:	15.60 ft	Invert:	15.53 ft
From Node:	2-1B	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	2-1A	Geometry	r: Circular	Geometr	y: Circular
Link Count:	1	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both				
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	33.60 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				
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	

02 Internal Inputs

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

Pipe Link: PIPE -09						
Scenario:	INTERNAL	Invert:	11.79 ft		Invert:	11.62 ft
From Node:	1-1	Manning's N:	0.0130	Ma	inning's N:	0.0130
To Node:	ECG-01	Geometry				
Link Count:	1	Max Depth:	2.50 ft	N	fax Depth:	2.50 ft
Flow Direction:	Both					
Damping:	0.0000 ft	Default:	0.00 ft		Default:	0.00 ft
Length:	81.68 ft	Op Table:			Op Table:	
FHWA Code:	1	Ref Node:			Ref Node:	
Entr Loss Coef:	0.50	Manning's N:	0.0000	Ma	inning'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	Ma	inning's N:	0.0000
Comment: Material:	RCP					

Scenario:	INTERNAL	Invert:	14.19 ft	Inve	t: 13.97 ft
From Node:	1-3A	Manning's N:	0.0130	Manning's	N: 0.0130
To Node:	1-3	Geometry			
Link Count:	1	Max Depth:	2.00 ft	Max Dept	h: 2.00 ft
Flow Direction:	Both			Bottom Clip	
Damping:	0.0000 ft	Default:	0.00 ft	Defau	lt: 0.00 ft
Length:	109.99 ft	Op Table:		Op Tab	e:
FHWA Code:	1	Ref Node:		Ref Noc	e:
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's	N: 0.0000
Exit Loss Coef:	0.90			Top Clip	
Bend Loss Coef:	0.00	Default:	0.00 ft	Defau	It: 0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Tab	e:
Energy Switch:	Energy	Ref Node:		Ref Noc	e:
		Manning's N:	0.0000	Manning's	N: 0.0000
nment: Material:	RCP			-	

Pipe Link: PIPE -11		Upst	ream	Downs	tream	
Scenario:	INTERNAL	Invert:	11.44 ft	Invert:	11.30 ft	

02 Internal Inputs Energy Switch: Energy

Ref Node: Manning's N: 0.0000 Ref Node: Manning's N: 0.0000 Comment: Material: PVC

Scenario:	INTERNAL	Invert:	15.53 ft	Invert	: 15.19 ft
From Node:	2-1A	Manning's N:	0.0130	Manning's N	: 0.0130
To Node:	2-1	Geometr	y: Circular	Geome	try: Circular
Link Count:	1	Max Depth:	1.50 ft	Max Depth	: 1.50 ft
Flow Direction:	Both				
Damping:	0.0000 ft	Default:	0.00 ft	Default	: 0.00 ft
Length:	173.14 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:	0.90			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

Scenario:	INTERNAL	Invert:	10.80 ft	Invert	: 10.64 ft
From Node:	2-1	Manning's N:	0.0130	Manning's N	: 0.0130
To Node:	ECG-01	Geometry	r: Circular	Geome	try: 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:	81.67 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:	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

Pipe Link: PIPE -16		Upsti	ream	Down:	stream
Scenario:	INTERNAL	Invert:	16.15 ft	Invert:	16.12 ft
From Node:	YD-5	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	1-6	Geometry			

Link Count:	1	Max Depth:	0.67 ft	Max Depth:	0.67 ft
Flow Direction:	Both			Bottom Clip	
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	14.67 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:	0.90				
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: Material:	PVC			•	

Pipe Link: PIPE -17		Upst	ream	Do	wnstream
Scenario:	INTERNAL	Invert:	17.29 ft	Inve	rt: 15.29 ft
From Node:	YD-4	Manning's N:	0.0130	Manning's	N: 0.0130
To Node:	1-5A				
Link Count:	1	Max Depth:	0.67 ft	Max Dep	th: 0.67 ft
Flow Direction:	Both				
Damping:	0.0000 ft	Default:	0.00 ft	Defau	ilt: 0.00 ft
Length:	14.81 ft	Op Table:		Op Tab	le:
FHWA Code:	1	Ref Node:		Ref No	ie:
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's	N: 0.0000
Exit Loss Coef:	0.00			Top Clip	
Bend Loss Coef:	0.00	Default:	0.00 ft	Defau	ilt: 0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Tab	le:
Energy Switch:	Energy	Ref Node:		Ref No	ie:
		Manning's N:	0.0000	Manning's	N: 0.0000
Comment: Material:	PVC	-			

Scenario:	INTERNAL	Invert:	15.65 ft	Invert	15.59 ft
From Node:	YD-12	Manning's N:	0.0130	Manning's N	0.0130
To Node:	YD-8	Geometry	y: Circular	Geomet	ry: 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:	32.40 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:	0.20			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

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Damping:	0.0000 ft	Default:	0.00 ft		Default:	0.00 ft
	163.28 ft	Op Table:	0.00 11		Op Table:	0.00 11
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:	0.00			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

Scenario:	INTERNAL	Invert:	16.13 ft	Invert	: 16.03 ft
From Node:	YD-16	Manning's N:	0.0130	Manning's N	: 0.0130
To Node:	YD-17	Geometry	r: Circular	Geome	ry: 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:	49.08 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:	0.00			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

Scenario:	INTERNAL	Invert:	16.17 ft	Invert:	16.13 ft
From Node:	YD-20	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	YD-16	Geometry	y: Circular	Geometr	y: Circular
Link Count:	1	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both		В	ottom Clip	
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	18.40 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:	0.45				
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: Material: PVC

Scenario:	INTERNAL	Invert:	15.59 ft	Invert:	15.47 ft
From Node:	YD-8	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	YD-7	Geometry			
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:	59.47 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:	0.20			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

Scenario:	INTERNAL	Invert:	15.47 ft	Invert:	15.38 ft
From Node:	YD-7	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	YD-6	Geometry	/: Circular	Geometr	y: 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:	43.73 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:	0.90			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

Scenario:	INTERNAL	Invert:	15.38 ft	Invert:	15.06 ft	
From Node:	YD-6	Manning's N:	0.0130	Manning's N:	0.0130	
To Node:	1-6	Geometry	/: Circular	Geometry	y: Circular	
Link Count:	1	Max Depth:	1.50 ft	Max Depth:	1.50 ft	
Flow Direction:	Both			Bottom Clip		

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Scenario:	INTERNAL	Invert:	16.48 ft	Invert:	14.99 ft
From Node:	YD-3	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	1-3A	Geometry	/: Circular	Geometr	y: 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:	37.67 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:	0.00			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

Scenario:	INTERNAL	Invert:	16.48 ft	Invert:	16.29 ft
From Node:	YD-2	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	1-1A	Geometr	/: Circular	Geomet	ry: 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:	37.67 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:	0.40			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

Pipe Link: PIPE -33					
Scenario:	INTERNAL	Invert:	17.86 ft	Invert:	17.72 ft
From Node:	YD-9	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	YD-8	Geometry	/: Circular	Geomet	ry: Circular
Link Count:	1	Max Depth:	0.67 ft	Max Depth:	0.67 ft
Flow Direction:	Both			Bottom Clip	
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	71.72 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:	0.90			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: Material:	Comment: Material: PVC						

Scenario:	INTERNAL	Invert:	17.95 ft	Invert:	17.86 ft
From Node:	YD-10	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	YD-9	Geometry			
Link Count:	1	Max Depth:	0.67 ft	Max Depth:	0.67 ft
Flow Direction:	Both				
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	41.99 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:	0.00			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

Scenario:	INTERNAL	Invert:	19.14 ft	Invert:	19.00 ft
From Node:	YD-13	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	YD-12	Geometry	y: Circular	Geometr	y: Circular
Link Count:	1	Max Depth:	0.67 ft	Max Depth:	0.67 ft
Flow Direction:	Both			Bottom Clip	
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	47.06 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:	0.00			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

Pipe Link: PIPE -36		Upst	ream	Downs	tream
Scenario:	INTERNAL	Invert:	17.99 ft	Invert:	17.95 ft

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

Scenario:	INTERNAL	Invert:	18.50 ft	Invert:	12.44 ft
From Node:	58	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	2-2	Geometry	y: Circular	Geometr	y: Circular
Link Count:	1	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both				
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	54.29 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:	0.40			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

Scenario:	INTERNAL	Invert:	14.13 ft	Invert:	13.99 ft
From Node:	1-4A	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	1-3A	Geometry	y: Circular	Geometr	y: Circular
Link Count:	1	Max Depth:	2.00 ft	Max Depth:	2.00 ft
Flow Direction:	Both		Bi	ottom Clip	
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	68.00 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:	0.90				
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

Pipe Link: PIPE-15		Upstr	ream	Down	stream
Scenario:	INTERNAL	Invert:	15.06 ft	Invert:	14.73 ft
From Node:	1-6	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	1-5A	Geometry			

From Node:	YD-11	Manning's N:	0.0130		Manning's N:	0.0130
To Node:	YD-10	Geometry	y: Circular		Geometry	: Circular
Link Count:	1	Max Depth:	0.67 ft		Max Depth:	0.67 ft
Flow Direction:	Both			Bottom Clip		
Damping:	0.0000 ft	Default:	0.00 ft		Default:	0.00 ft
Length:	19.76 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:	0.00					
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
ommont: Material:	DVC					

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Scenario:	INTERNAL	Invert:	18.63 ft	Invert	: 18.57 ft
From Node:	50	Manning's N:	0.0130	Manning's N	: 0.0130
To Node:	YD-8	Geometry			
Link Count:	1	Max Depth:	0.50 ft	Max Depth	: 0.50 ft
Flow Direction:	Both			Bottom Clip	
Damping:	0.0000 ft	Default:	0.00 ft	Default	: 0.00 ft
Length:	12.30 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:	0.00			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

Scenario:	INTERNAL	Invert:	16.04 ft	Invert:	15.89 ft
From Node:	YD-17	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	YD-15	Geometry	/: Circular	Geometr	y: Circular
Link Count:	1	Max Depth:	1.00 ft	Max Depth:	1.00 ft
Flow Direction:	Both				
Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	71.70 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:	0.00				
Bend Loss Coef:	0.00	Default:	0.00 ft	Default:	0.00 ft
Bend Location:	0.00 dec	Op Table:		Op Table:	

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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:	165.30 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:	0.90			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:					

Scenario:	INTERNAL	Invert:	14.73 ft	Invert	: 14.63 ft
From Node:	1-4A	Manning's N:	0.0130	Manning's N	: 0.1300
To Node:	1-5A	Geometry			
Link Count:	1	Max Depth:	1.50 ft	Max Depth	: 1.50 ft
Flow Direction:	Both				
Damping:	0.0000 ft	Default:	0.00 ft	Default	: 0.00 ft
Length:	51.81 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:	0.40			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

Scenario:	INTERNAL	Invert:	15.61 ft	Invert:	15.13 ft
From Node:	59	Manning's N:	0.0130	Manning's N:	0.0130
To Node:	1-4A	Geometry	/: Circular	Geometr	y: 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:	99.62 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:	0.90			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

		Upst			
Scenario:	INTERNAL	Invert:	18.92 ft	Inver	: 18.83 ft
From Node:	YD-24	Manning's N:	0.0130	Manning's N	: 0.0130
To Node:	YD-22	Geometr			
Link Count:	1	Max Depth:	0.67 ft	Max Depth	: 0.67 ft
Flow Direction:	Both			Bottom Clip	
Damping:	0.0000 ft	Default:	0.00 ft	Defaul	: 0.00 ft
Length:	39.20 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:	0.00				
Bend Loss Coef:	0.00	Default:	0.00 ft	Defaul	: 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

Scenario:	INTERNAL	Invert:	17.45 ft	Invert	: 13.59 ft
From Node:	YD-22	Manning's N:	0.0130	Manning's N	: 0.0130
To Node:	1-2	Geometr	r: Circular	Geome	try: Circular
Link Count:	1	Max Depth:	0.83 ft	Max Depth	: 0.83 ft
Flow Direction:	Both			Bottom Clip	
Damping:	0.0000 ft	Default:	0.00 ft	Default	: 0.00 ft
Length:	31.65 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:	0.40			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

Pipe Link: PIPE-62		Upstream	Down	stream
Scenario:	INTERNAL	Invert: 17.74 f	Invert:	17.62 ft
From Node:	YD-23	Manning's N: 0.0130	Manning's N:	0.0130
To Node:	YD-22	Geometry: Circula	r Geometr	y: Circular
Link Count:	1	Max Depth: 0.67 ft	Max Depth:	0.67 ft
Flow Direction:	Both		Bottom Clip	

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03 Internal Results

Simulation: 100YR 24HR

Run Mode:	Normal			
	Year	Month	Day	Hour [hr]
Start Time:	0	0	0	0.0000
End Time:	0	0	0	48.0000
	Hydrology [sec]	Surface Hydraulics		

[sec] Min Calculation Time: Max Calculation Time:

Year	Month	Day	Hour [hr]	Time Increment [min]
0	0	0	0.0000	5.0000

Restart File Save Restart: False

Boundary Stage Set: 100YR 24HR
Extern Hydrograph Set:
Curve Number Set: CN Rainfall Folder: Icpr3 Unit Hydrograph Icpr3 Folder: Green-Ampt Set:

Vertical Layers Set: Impervious Set: Impervious

IA Recovery Time: 24.0000 hr

Time Marching: SAOR Max Iterations: 6 Over-Relax Weight 0.5 dec Fact: dZ Tolerance: 0.0010 ft

Smp/Man Basin Rain Global

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Damping:	0.0000 ft	Default:	0.00 ft	Default:	0.00 ft
Length:	58.07 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:	0.40			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
omment:					

Scenario:	INTERNAL	Invert:	18.19 ft	Invert	14.64 ft
From Node:	YD-21	Manning's N:	0.0130	Manning's N	0.0130
To Node:	1-3	Geometry	y: Circular	Geomet	ry: Circular
Link Count:	1	Max Depth:	0.83 ft	Max Depth	0.83 ft
Flow Direction:	Both			Bottom Clip	
Damping:	0.0000 ft	Default:	0.00 ft	Default	0.00 ft
Length:	44.40 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

Scenario:	INTERNAL	Invert:	15.89 ft	Invert	: 15.81 ft
From Node:	YD-12	Manning's N:	0.0130	Manning's N	: 0.0130
To Node:	YD-15	Geometry			
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:	37.60 ft	Op Table:		Op Table	:
FHWA Code:	0	Ref Node:		Ref Node	:
Entr Loss Coef:	0.50	Manning's N:	0.0000	Manning's N	: 0.0000
Exit Loss Coef:	0.40				
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

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03 Internal Results

Opt: Max dZ: 1.0000 ft Link Optimizer Tol: 0.0001 ft Rainfall Name: ~FLMOD Rainfall Amount: 10.00 in Storm Duration: 24.0000 hr Edge Length Option: Automatic

Dflt Damping (1D): 0.0050 ft Min Node Srf Area 113 ft2 (1D): Energy Switch (1D): Energy

Comment:

Simulation: 25YR 24HR

Run Mode: Normal Hour [hr] 0 0 0.0000 48.0000 End Time: Hydrology [sec] Surface Hydraulics

[sec] 0.1000 Min Calculation Time: 60.0000 Max Calculation Time 60.0000

03 Internal Results

Lookup Tables
Boundary Stage Set: 25YR 24HR
Extern Hydrograph Set:
Curve Number Set: CN Resources Rainfall Folder: Icpr3 Unit Hydrograph Icpr3 Folder:

Green-Ampt Set: Vertical Layers Set: Impervious Set: Impervious

Time Marching: SAOR IA Recovery Time: 24.0000 hr Max Iterations: 6
Over-Relax Weight 0.5 dec
Fact:
dZ Tolerance: 0.0010 ft Smp/Man Basin Rain Global Max dZ: 1.0000 ft Link Optimizer Tol: 0.0001 ft Rainfall Name: ~FLMOD Rainfall Amount: 8.00 in Storm Duration: 24.0000 hr

Edge Length Option: Automatic Dflt Damping (1D): 0.0050 ft Min Node Srf Area 113 ft2 (1D): Energy Switch (1D): Energy

Manual Basin Runoff Summary [INTERNAL]

Basin	Sim Name	Max Flow	Time to	Total	Total	Area [ac]	Equivalent	% Imperv	% DCIA
Name		[cfs]			Runoff [in]				
			[hrs]	[in]			Number		
1-1	100YR	1.37	12.0500	10.00	9.82	0.2314	98.6	93.32	93.32
	24HR								
1-1	25YR	1.10	12.0500	8.00	7.83	0.2314	98.7	93.32	93.32
	24HR								

Mariual Das	Mandai Basii Ranon Saminary [INTERNAC]												
Basin	Sim Name	Max Flow			Total	Area [ac]		% Imperv	% DCIA				
Name		[cfs]			Runoff [in]								
				[in]									
1-1A	100YR	1.90	12.0500	10.00	9.44	0.3268	95.5	77.90	77.90				
	24HR												
1-1A	25YR	1.50	12.0500	8.00	7.47	0.3268	95.6	77.90	77.90				

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03 Internal Results Manual Basin Runoff Summary [INTERNAL]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow	Total Rainfall	Total Runoff [in]	Area [ac]	Equivalent Curve	% Imperv	% DCIA
			[hrs]	[in]			Number		
1-5A	100YR	0.35	12.0500	10.00	9.61	0.0590	96.9	84.85	84.85
	24HR								
1-5A	25YR	0.27	12.0500	8.00	7.63	0.0590	97.0	84.85	84.85
	24HR								

Manual Basin Runoff Summary [INTERNAL]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow	Total Rainfall	Total Runoff [in]	Area [ac]	Equivalent Curve	% Imperv	% DCIA
			[hrs]	[in]			Number		
1-6	100YR	0.52	12.0500	10.00	9.16	0.0910	93.2	66.59	66.59
	24HR								
1-6	25YR	0.41	12.0500	8.00	7.20	0.0910	93.4	66.59	66.59
	24HR								

Manual Basin Runoff Summary [INTERNAL]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
2-1	100YR	1.69	12.0500	10.00	9.87	0.2836	99.0	95.06	95.06
	24HR								
2-1	25YR	1.35	12.0500	8.00	7.87	0.2836	99.0	95.06	95.06
	24HR								

Manual Basin Runoff Summary [INTERNAL]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
2-1A	100YR	0.56	12.0500	10.00	9.72	0.0947	97.8	89.17	89.17
	24HR								
2-1A	25YR	0.45	12.0500	8.00	7.73	0.0947	97.9	89.17	89.17
	24HR								

Manual Basin Runoff Summary [INTERNAL]

03 Internal Results

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
	24HR								

Manual Basin Runoff Summary [INTERNAL]

Basin	Sim Name	Max Flow	Time to	Total			Equivalent		
Name		[cfs]	Max Flow	Rainfall			Curve		
			[hrs]	[in]			Number		
1-2	100YR	2.12	12.0500	10.00	9.50	0.3633	95.9	80.08	80.08
	24HR								
1-2	25YR	1.68	12.0500	8.00	7.52	0.3633	96.1	80.08	80.08
	24HR								

Manual Basin Runoff Summary [INTERNAL]

Basin	Sim Name	Max Flow	Time to	Total	Total		Equivalent	% Imperv	
Name		[cfs]	Max Flow	Rainfall	Runoff [in]		Curve		
			[hrs]	[in]			Number		
1-3	100YR	0.81	12.0500	10.00	9.26	0.1411	94.0	70.50	70.50
	24HR								
1-3	25YR	0.64	12.0500	8.00	7.29	0.1411	94.1	70.50	70.50
	24HR								

Manual Basin Runoff Summary [INTERNAL]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number		
1-3A	100YR 24HR	1.67	12.0500	10.00	9.51	0.2865	96.0	80.68	80.68
1-3A	25YR 24HR	1.33	12.0500	8.00	7.53	0.2865	96.2	80.68	80.68

Manual Basin Runoff Summary [INTERNAL]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]		Equivalent Curve Number	% Imperv	% DCIA
1-4A	100YR 24HR	0.73	12.0500	10.00	9.26	0.1275	94.0	70.62	70.62
1-4A	25YR 24HR	0.58	12.0500	8.00	7.29	0.1275	94.2	70.62	70.62

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03 Internal Results

- 100	lasin lame	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
2	!-1B	100YR	1.12	12.0500	10.00	7.82	0.2116	82.5	12.61	12.61
L		24HR								
2	!-1B	25YR	0.85	12.0500	8.00	5.92	0.2116	82.6	12.61	12.61
L		24HR								

Manual Basin Runoff Summary [INTERNAL]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow	Total Rainfall	Total Runoff [in]	Area [ac]	Equivalent Curve	% Imperv	% DCIA
			[hrs]	[in]			Number		
2-2	100YR	2.03	12.0500	10.00	9.71	0.3444	97.7	88.89	88.89
	24HR								
2-2	25YR	1.62	12.0500	8.00	7.73	0.3444	97.8	88.89	88.89
	24HR								

Manual Basin Runoff Summary [INTERNAL]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
2-3	100YR 24HR	1.21	12.0500	10.00	9.28	0.2093	94.2	71.58	71.58
2-3	25YR 24HR	0.88	12.0500	8.00	7.39	0.1935	95.0	74.73	74.73

Manual Basin Runoff Summary [INTERNAL]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
50	100YR 24HR	0.26	12.0500	10.00	9.99	0.0436	100.0	100.00	100.00
50	25YR 24HR	0.21	12.0500	8.00	7.99	0.0436	100.0	100.00	100.00

Manual Basin Runoff Summary [INTERNAL]

Basin	Sim Name	Max Flow	Time to	Total		Area [ac]	Equivalent	% Imperv	% DCIA
Name		[cfs]	Max Flow	Rainfall	Runoff [in]		Curve		
		()							
			[hrs]	[in]			Number		
58	100YR	2.69	12.0500	10.00	9.99	0.4489	100.0	100.00	100.00

03 Internal Results	7	03 Internal Results	
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Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
	24HR								
58	25YR	2.15	12.0500	8.00	7.99	0.4489	100.0	100.00	100.00
	24HR								

Manual Basin Runoff Summary [INTERNAL]

Basin	Sim Name	Max Flow	Time to	Total	Total	Area [ac]	Equivalent	% Imperv	% DCIA
Name		[cfs]	Max Flow		Runoff [in]				
			[hrs]	[in]			Number		
59	100YR	2.98	12.0500	10.00	9.99	0.4980	100.0	99.99	99.99
	24HR								
59	25YR	2.39	12.0500	8.00	7.99	0.4980	100.0	99.99	99.99
	24HR								

Manual Basin Runoff Summary [INTERNAL]

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Basin	Sim Name	Max Flow	Time to	Total	Total	Area [ac]	Equivalent	% Imperv	% DCIA
		[cfs]	Max Flow	Rainfall	Runoff [in]		Curve		
			[hrs]	[in]			Number		
ECG-01	100YR	13.38	12.0000	10.00	8.74	2.1450	89.7	1.03	1.03
	24HR								
ECG-01	25YR	10.45	12.0000	8.00	6.79	2.1450	89.9	1.03	1.03
	24HR		l	l	l	l	l	1	l

Manual Basin Runoff Summary [INTERNAL]

Basin	Sim Name	Max Flow	Time to	Total	Total	Area [ac]	Equivalent	% Imperv	% DCIA
Name		[cfs]			Runoff [in]		Curve		
			[hrs]	[in]			Number		
YD-10	100YR	0.10	12.0500	10.00	8.43	0.0183	87.2	36.92	36.92
	24HR								
YD-10	25YR	0.08	12.0500	8.00	6.49	0.0183	87.4	36.92	36.92
	24HR								

Manual Basin Runoff Summary [INTERNAL]

Basin Name			Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]		Equivalent Curve Number	% Imperv	% DCIA	
YD-11	100YR 24HR	0.15	12.0500	10.00	8.66	0.0270	89.1	46.43	46.43	

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03 Internal Results

Basin Sim Name Name	Max Flow [cfs]			Total Runoff [in]	Equivalent Curve	% Imperv	% DCIA
24HR		[hrs]	[in]		Number		

Manual Basin Runoff Summary [INTERNAL]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
YD-17	100YR 24HR	0.27	12.0500	10.00	8.49	0.0489	87.8	39.65	39.65
YD-17	25YR 24HR	0.21	12.0500	8.00	6.56	0.0489	88.0	39.65	39.65

Manual Basin Runoff Summary [INTERNAL]

Basin	Sim Name	Max Flow	Time to	Total	Total	Area [ac]	Equivalent	% Imperv	% DCIA
		[cfs]	Max Flow	Rainfall	Runoff [in]		Curve		
			[hrs]	[in]			Number		
YD-2	100YR	0.24	12.0500	10.00	7.51	0.0472	80.0	0.00	0.00
	24HR								
YD-2	25YR	0.18	12.0500	8.00	5.62	0.0472	80.0	0.00	0.00
	24HR		I	I	l	l	I	l	l

Manual Basin Runoff Summary [INTERNAL]

manual ba	siii Kunon Sui	illial y [livi Li	UMPLI						
Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
YD-20	100YR	0.29	12.0500	10.00	8.02	0.0540	84.0	20.54	20.54
	24HR								
YD-20	25YR	0.29	12.0500	8.00	6.17	0.0698	84.7	23.38	23.38
I	24HR		l	l	1	l		1	

Manual Basin Runoff Summary [INTERNAL]

Wallual Das	siii Kunon Jun	illiary [livi Li	UVALI						
Basin	Sim Name	Max Flow	Time to	Total	Total	Area [ac]	Equivalent	% Imperv	% DCIA
Name		[cfs]	Max Flow	Rainfall	Runoff [in]		Curve		
			[hrs]	[in]			Number		
YD-21	100YR	0.13	12.0500	10.00	8.24	0.0248	85.8	29.57	29.57
	24HR								
YD-21	25YR	0.10	12.0500	8.00	6.32	0.0248	86.0	29.57	29.57
	24HR								

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Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
YD-11	25YR 24HR	0.12	12.0500	8.00	6.72	0.0270	89.3	46.43	46.43

Manual Basin Runoff Summary [INTERNAL]

ı	Basin	Sim Name	Max Flow	Time to	Total	Total	Area [ac]	Equivalent	% Imperv	% DCIA
-1	Name			Max Flow	Rainfall			Curve		
Ш				[hrs]	[in]			Number		
Γ	YD-12	100YR	0.15	12.0500	10.00	9.23	0.0269	93.7	69.39	69.39
1		24HR								
Γ	YD-12	25YR	0.12	12.0500	8.00	7.26	0.0269	93.9	69.39	69.39
L		24HR								

Manual Basin Runoff Summary [INTERNAL]

	Sim Name	Max Flow	Time to	Total	Total		Equivalent	% Imperv	% DCIA
		[cfs]	Max Flow	Rainfall	Runoff [in]		Curve		
			[hrs]	[in]			Number		
YD-13	100YR	0.15	12.0500	10.00	8.81	0.0268	90.3	52.23	52.23
	24HR								
YD-13	25YR	0.12	12.0500	8.00	6.86	0.0268	90.5	52.23	52.23
	24HR								

Manual Basin Runoff Summary [INTERNAL]

Basin	Sim Name	Max Flow	Time to	Total	Total	Area [ac]	Equivalent	% Imperv	% DCIA
		[cfs]	Max Flow	Rainfall	Runoff [in]		Curve		
			[hrs]	[in]			Number		
YD-15	100YR	0.19	12.0500	10.00	8.22	0.0352	85.6	28.72	28.72
	24HR								
YD-15	25YR	0.15	12.0500	8.00	6.30	0.0352	85.8	28.72	28.72
	24HR								

Manual Basin Runoff Summary [INTERNAL]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow	Total Rainfall	Total Runoff [in]	Area [ac]	Curve	% Imperv	% DCIA
YD-16	100YR 24HR	0.15	[hrs] 12.0500	[in] 10.00	8.07	0.0271	Number 84.4	22.71	22.71
YD-16	25YR	0.11	12.0500	8.00	6.16	0.0271	84.6	22.71	22.71

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03 Internal Results

Basin	Sim Name	Max Flow	Time to	Total	Total	Area [ac]	Equivalent	% Imperv	% DCIA
		[cfs]	Max Flow	Rainfall	Runoff [in]		Curve		
			[hrs]	[in]			Number		
YD-22	100YR	0.11	12.0500	10.00	8.22	0.0205	85.6	28.41	28.41
	24HR								
YD-22	25YR	0.09	12.0500	8.00	6.29	0.0205	85.7	28.41	28.41
	24HR								

Manual Basin Runoff Summary [INTERNAL]

Name	Sim Name	[cfs]	Max Flow [hrs]	Rainfall [in]	Runoff [in]	Area [ac]	Curve Number	% Imperv	% DCIA
YD-23	100YR	0.10	12.0500	10.00	9.28	0.0177	94.1	71.39	71.39
	24HR								
YD-23	25YR	0.08	12.0500	8.00	7.31	0.0177	94.3	71.39	71.39
	24HR								

Manual Basin Runoff Summary [INTERNAL]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]		Equivalent Curve Number	% Imperv	% DCIA
YD-24	100YR 24HR	0.09	12.0500	10.00	8.89	0.0152	90.9	55.46	55.46
YD-24	25YR 24HR	0.07	12.0500	8.00	6.93	0.0152	91.1	55.46	55.46

Manual Basin Runoff Summary [INTERNAL]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
YD-3	100YR	0.47	12.0500	10.00	7.57	0.0895	80.5	2.39	2.39
	24HR								
YD-3	25YR	0.35	12.0500	8.00	5.68	0.0895	80.5	2.39	2.39
	24HR								

Manual Basin Runoff Summary [INTERNAL]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
YD-4	100YR	0.22	12.0500	10.00	7.63	0.0416	80.9	4.74	4.74
	24HR								
YD-4	25YR	0.16	12.0500	8.00	5.73	0.0416	81.0	4.74	4.74
	24HR								

Manual Basin Runoff Summary [INTERNAL]

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
YD-5	100YR	0.22	12.0500	10.00	7.66	0.0421	81.1	5.88	5.88
	24HR								
YD-5	25YR	0.17	12.0500	8.00	5.76	0.0421	81.2	5.88	5.88
	24HR								

Manual Basin Runoff Summary [INTERNAL]

	, , , , , , , , , , , , , , , , , , , ,											
Basin	Sim Name	Max Flow	Time to	Total	Total	Area [ac]	Equivalent	% Imperv	% DCIA			
		[cfs]	Max Flow	Rainfall	Runoff [in]							
			[hrs]	[in]			Number					
YD-6	100YR	0.90	12.0500	10.00	7.52	0.1728	80.0	0.23	0.23			
	24HR											
YD-6	25YR	0.68	12.0500	8.00	5.62	0.1728	80.0	0.23	0.23			
	24HR											

Manual Basin Runoff Summary [INTERNAL]

Basin	Sim Name	Max Flow	Time to	Total	Total	Area [ac]	Equivalent	% Imperv	% DCIA
Name		[cfs]	Max Flow		Runoff [in]				
			[hrs]	[in]			Number		
YD-7	100YR	0.10	12.0500	10.00	7.51	0.0200	80.0	0.00	0.00
	24HR								
YD-7	25YR	0.08	12.0500	8.00	5.62	0.0200	80.0	0.00	0.00
	24HR								

Manual Basin Runoff Summary [INTERNAL]

	Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]		Equivalent Curve Number	% Imperv	% DCIA
I	YD-8	100YR	0.29	12.0500	10.00	8.41	0.0525	87.1	36.14	36.14

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Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
1-3	100YR 24HR	21.13	19.89	-0.0010	8.31	8.26	113
1-3	25YR 24HR	21.13	19.36	-0.0010	6.77	6.73	113
	•			•			

Node Max Conditions [INTERNAL]

	Node Name	Sim Name	Warning Stage [ft]		Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
ſ	1-3A	100YR 24HR	20.50	20.10	-0.0010	7.55	7.51	113
[1-3A	25YR 24HR	20.50	19.49	-0.0010	6.16	6.13	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning	Max Stage			Max Total	Max Surface
		Stage [ft]	[ft]		Inflow [cfs]	Outflow [cfs]	Area [ft2]
				[ft]			
1-4A	100YR 24HR	20.50	20.21	0.0024	5.77	5.75	113
1-4A	25YR 24HR	20.50	19.56	0.0024	4.73	4.71	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]		Min/Max Delta Stage [ft]	Max Total Inflow [cfs]		Max Surface Area [ft2]
1-5A	100YR 24HR	20.50	20.34	-0.0009	3.03	3.07	113
1-5A	25YR 24HR	20.50	19.64	-0.0009	2.41	2.41	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]				Max Surface Area [ft2]
1-6	100YR 24HR	20.50	20.48	0.0010	2.64	2.68	113
1-6	25YR 24HR	20.50	19.74	0.0009	2.32	2.11	113

Node Max Conditions [INTERNAL]

Node Name Sim Name

Node Name	Sim Name	Warning	Max Stage	Min/Max	Max Total	Max Total	Max Surface

Basin Name	Sim Name	Max Flow [cfs]	Time to Max Flow [hrs]	Total Rainfall [in]	Total Runoff [in]	Area [ac]	Equivalent Curve Number	% Imperv	% DCIA
	24HR								
YD-8	25YR	0.22	12.0500	8.00	6.48	0.0525	87.3	36.14	36.14
	24HR								

Manual Basin Runoff Summary [INTERNAL]

Basin	Sim Name	Max Flow	Time to	Total	Total		Equivalent	% Imperv	
Name		[cfs]	Max Flow	Rainfall	Runoff [in]		Curve		
			[hrs]	[in]			Number		
YD-9	100YR	0.17	12.0500	10.00	8.10	0.0317	84.7	23.88	23.88
	24HR								
YD-9	25YR	0.13	12.0500	8.00	6.19	0.0317	84.8	23.88	23.88
	24HR								

Node Max Conditions [INTERNAL]

	Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
Г	1-1	100YR 24HR	20.50	19.60	-0.0015	13.50	13.44	113
Ε	1-1	25YR 24HR	20.50	19.23	-0.0014	10.96	10.91	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]		Max Total Outflow [cfs]	Max Surface Area [ft2]
1-1A	100YR 24HR	20.50	19.63	-0.0008	2.07	1.99	113
1-1A	25YR 24HR	20.50	19.24	-0.0010	1.63	1.57	113

Node Max Conditions [INTERNAL]

		Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]			Max Surface Area [ft2]
ı	1-2	100YR 24HR	20.50	19.66	0.0013	10.33	10.28	113
	1-2	25YR 24HR	20.50	19.25	0.0012	8.42	8.38	113

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		Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage	Max Total Inflow (cfs)		Max Surface Area [ft2]
				[ft]			
2-1	100YR 24HR	20.50	19.53	0.0010	8.97	8.91	113
2-1	25YR 24HR	20.50	19.21	0.0010	7.09	7.04	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]			Max Surface Area [ft2]
2-1A	100YR 24HR	21.08	19.54	-0.0006	1.61	1.55	113
2-1A	25YR 24HR	21.08	19.21	-0.0010	1.25	1.20	113

Node Max Conditions [INTERNAL]

Node Nam	e Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]		Max Total Outflow [cfs]	Max Surface Area [ft2]
2-1B	100YR 24HR	20.50	19.55	0.0004	1.12	1.06	113
2-1B	25YR 24HR	20.50	19.22	-0.0005	0.85	0.80	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]		Max Surface Area [ft2]
2-2	100YR 24HR	21.08	19.54	-0.0010	5.80	5.74	113
2-2	25YR 24HR	21.08	19.21	-0.0010	4.60	4.55	113

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]		Max Surface Area [ft2]
2-3	100YR 24HR	19.52	19.54	-0.0008	1.21	1.14	113
2-3	25YR 24HR	19.52	19.21	-0.0007	0.88	0.84	113

Node Max Cond	ANNA TINIT SHOULD	L.J				
Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	 	Max Total Outflow [cfs]	Max Surface Area [ft2]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]		Max Total Outflow [cfs]	Max Surface Area [ft2]
50	100YR 24HR	21.50	20.62	-0.0010	0.26	0.18	113
50	25YR 24HR	21.50	19.83	0.0007	0.21	0.16	113

Node Max Conditions [INTERNAL]

	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]		Max Total Outflow [cfs]	Max Surface Area [ft2]
58	100YR 24HR	21.00	19.71	0.0005	2.69	2.62	113
58	25YR 24HR	21.00	19.41	0.0004	2.15	2.15	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]		Max Total Outflow [cfs]	Max Surface Area [ft2]
59	100YR 24HR	21.00	20.96	-0.0026	2.98	2.92	113
59	25YR 24HR	21.00	20.02	-0.0026	2.39	2.92	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
ECG-01	100YR 24HR	21.00	19.52	-0.0008	34.17	0.11	0
ECG-01	25YR 24HR	21.00	19.20	-0.0008	27.12	0.26	0

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]			Max Total Outflow [cfs]	Max Surface Area [ft2]
		Stage [11]	2	[ft]	milion (cis)	outilon (cis)	racu [nz]
YD-10	100YR 24HR	21.32	20.66	-0.0010	0.20	0.22	113
YD-10	25YR 24HR	21.32	19.86	0.0007	0.15	0.16	113

Node Max Conditions [INTERNAL]

Node Name	Warning		Min/Max	Max Total		Max Surface
	Stage [ft]	[ft]	Delta Stage	Inflow [cfs]	Outflow [cfs]	Area [ft2]

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Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]		Max Surface Area [ft2]
YD-17	100YR 24HR	21.13	20.64	-0.0010	1.71	1.02	113
YD-17	25YR 24HR	21.13	19.85	0.0008	1.71	1.00	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]			Max Total Outflow [cfs]	Max Surface Area [ft2]
YD-2	100YR 24HR	20.50	19.63	-0.0005	0.24	0.19	113
YD-2	25YR 24HR	20.50	19.24	-0.0008	0.18	0.14	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]		Max Total Outflow [cfs]	Max Surface Area [ft2]
YD-20	100YR 24HR	20.60	20.65	-0.0010	0.51	0.27	113
YD-20	25YR 24HR	20.60	19.86	0.0007	0.50	0.20	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning	Max Stage	Min/Max			Max Surface
		Stage [ft]	[ft]	Delta Stage			Area [ft2]
				[ft]			
YD-21	100YR 24HR	22.00	19.89	0.0006	0.13	0.10	113
YD-21	25YR 24HR	22.00	19.37	0.0005	0.10	0.07	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]			Max Total Outflow [cfs]	Max Surface Area [ft2]
YD-22	100YR 24HR	21.61	19.66	0.0007	0.19	0.20	113
YD-22	25YR 24HR	21.61	19.25	0.0008	0.18	0.14	113

	Node Max Conditions [INTERNAL]										
ı	Node Name		Warning	Max Stage	Min/Max	Max Total	Max Total	Max Surface			
1			Stage [ft]	[ft]	Delta Stage	Inflow [cfs]	Outflow [cfs]	Area [ft2]			

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]			Max Surface Area [ft2]
YD-11	100YR 24HR	21.32	20.66	-0.0010	0.17	0.12	113
YD-11	25YR 24HR	21.32	19.86	0.0007	0.13	0.09	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]		Max Total Inflow [cfs]		Max Surface Area [ft2]
YD-12	100YR 24HR	21.33	20.61	-0.0190	0.84	21.47	113
YD-12	25YR 24HR	21.33	19.82	-0.0190	0.72	21.47	113

Node Max Conditions FINTERNALL

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]			Max Surface Area [ft2]
YD-13	100YR 24HR	21.07	20.61	-0.0010	0.29	0.12	113
YD-13	25YR 24HR	21.07	19.83	0.0007	0.29	0.11	113

Node Max Conditions [INTERNAL]

	Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]		Max Surface Area [ft2]
Г	YD-15	100YR 24HR	21.14	20.62	0.0054	6.17	1.71	113
Ι	YD-15	25YR 24HR	21.14	19.84	0.0054	6.17	1.71	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]		Max Surface Area [ft2]
YD-16	100YR 24HR	21.00	20.64	0.0010	1.02	0.51	113
YD-16	25YR 24HR	21.00	19.85	0.0007	1.00	0.50	113

Node Max Conditions [INTERNAL]

ı	Node Name	Sim Name	Warning	Max Stage	Min/Max	Max Total	Max Total	Max Surface
ı			Stage [ft]	[ft]	Delta Stage	Inflow [cfs]	Outflow [cfs]	Area [ft2]

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Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]	Max Total Outflow [cfs]	Max Surface Area [ft2]
YD-23	100YR 24HR	22.00	19.66	0.0005	0.10	0.06	113
YD-23	25YR 24HR	22.00	19.25	0.0004	0.08	0.04	113

Node Max Conditions [INTERNAL]

	Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]		Max Surface Area [ft2]
i	YD-24	100YR 24HR	21.87	19.66	0.0005	0.10	0.07	113
	YD-24	25YR 24HR	21.87	19.25	0.0002	0.07	0.07	113

Node Max Conditions [INTERNAL]

		Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]		Max Surface Area [ft2]
1	YD-3	100YR 24HR	20.63	20.11	0.0007	0.47	0.37	113
1	YD-3	25YR 24HR	20.63	19.50	0.0006	0.35	0.29	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]	Max Total Inflow [cfs]		Max Surface Area [ft2]
YD-4	100YR 24HR	21.30	20.34	0.0008	0.25	0.16	113
YD-4	25YR 24HR	21.30	19.65	0.0007	0.25	0.12	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]		Min/Max Delta Stage [ft]			Max Surface Area [ft2]
YD-5	100YR 24HR	21.50	20.49	0.0009	0.47	0.16	113
YD-5	25YR 24HR	21.50	19.74	0.0007	0.47	0.13	113

Node Max Cond	IILIONS [IIVI ERIVA	NLJ			
Node Name	Sim Name	Warning Stage [ft]	 	Max Total Outflow [cfs]	Max Surface Area [ft2]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]			Max Surface Area [ft2]
YD-6	100YR 24HR	21.80	20.56	0.0014	3.45	2.32	113
YD-6	25YR 24HR	21.80	19.79	0.0014	3.45	2.32	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]			Max Surface Area [ft2]
YD-7	100YR 24HR	22.23	20.58	0.0028	5.89	3.45	113
YD-7	25YR 24HR	22.23	19.81	0.0028	5.89	3.45	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]		Max Total Inflow [cfs]		Max Surface Area [ft2]
YD-8	100YR 24HR	21.51	20.60	0.0128	15.01	5.92	113
YD-8	25YR 24HR	21.51	19.82	0.0128	15.01	5.92	113

Node Max Conditions [INTERNAL]

Node Name	Sim Name	Warning Stage [ft]	Max Stage [ft]	Min/Max Delta Stage [ft]			Max Surface Area [ft2]
YD-9	100YR 24HR	21.40	20.65	-0.0010	0.30	0.35	113
YD-9	25YR 24HR	21.40	19.85	0.0007	0.23	0.26	113

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]				Max Avg Velocity [fps]
PIPE -06	100YR 24HR	8.26	-0.06	1.03	2.63	2.63	2.63
PIPE -06	25YR 24HR	6.73	-0.04	1.06	2.14	2.14	2.14

Link Min/Max Conditions [INTERNAL]

	Max Flow	Min Flow [cfs]	Min/Max	Max Us		Max Avg
	[cfs]		Delta Flow	Velocity [fps]	Velocity [fps]	Velocity [fps]

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03 Internal Results

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]			Max Avg Velocity [fps]
PIPE -12 (1)	100YR 24HR	1.14	0.00	-0.33	0.65	0.65	0.65
PIPE -12 (1)	25YR 24HR	0.84	-0.02	-0.28	0.47	0.47	0.47

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]				Max Avg Velocity [fps]
PIPE -13 (1)	100YR 24HR	1.06	0.00	-0.05	1.34	1.34	1.34
PIPE -13 (1)	25YR 24HR	0.80	0.00	-0.05	1.02	1.02	1.02

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]				Max Avg Velocity [fps]
PIPE -13 (1)	100YR 24HR	1.55	0.00	0.32	0.88	0.88	0.88
(1)							
PIPE -13 (1)	25YR 24HR	1.20	0.00	0.32	0.68	0.68	0.68
(1)							

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]		Max Avg Velocity [fps]
PIPE -14	100YR 24HR	8.91	0.00	1.21	1.82	1.82	1.82
PIPE -14	25YR 24HR	7.04	0.00	1.17	1.43	1.43	1.43

Link Min/Max Conditions [INTERNAL]

LINK MIN/Max	Conditions [INTE	RNALJ					
Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]			Max Ds Velocity [fps]	Max Avg Velocity [fps]
PIPE -16	100YR 24HR	0.16	-0.47	-0.04	-1.34	-1.34	-1.34
PIPE -16	25YR 24HR	0.13	-0.47	-0.03	-1.34	-1.34	-1.34

Link Min/Max Conditions [INTERNAL]

03 Internal Paguite

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]		Max Us Velocity [fps]		Max Avg Velocity [fps]
PIPE -07	100YR 24HR	1.99	-0.07	0.36	1.13	1.13	1.13
PIPE -07	25YR 24HR	1.57	-0.07	0.44	0.89	0.89	0.89

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]				Max Avg Velocity [fps]
PIPE -08	100YR 24HR	10.28	-0.07	2.43	2.09	2.09	2.09
PIPE -08	25YR 24HR	8.38	-0.10	-2.25	1.71	1.71	1.71

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]				Max Avg Velocity [fps]
PIPE -09	100YR 24HR	13.44	-0.11	1.22	2.74	2.74	2.74
PIPE -09	25YR 24HR	10.91	-0.26	1.13	2.22	2.22	2.22

Link Min/Max Conditions [INTERNAL]

Link Na	me Sim Name	Max Flow [cfs]	Min Flow [cfs]				Max Avg Velocity [fps]
PIPE -10	100YR 24HR	7.51	-0.01	1.01	2.39	2.39	2.39
PIPE -10	25YR 24HR	6.13	-0.04	0.97	1.95	1.95	1.95

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]			Max Avg Velocity [fps]
PIPE -11	100YR 24HR	5.74	-0.01	1.31	1.83	1.83	1.83
PIPE -11	25YR 24HR	4.55	-0.03	1.25	1.45	1.45	1.45

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow	Min Flow [cfs]	Min/Max	Max Us	Max Ds	Max Avg
		[cfs]		Delta Flow	Velocity [fps]	Velocity [fps]	Velocity [fps]

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Link Name Sim Name [cfs] Max Flow [cfs] Min Flow [cfs] Min/Max Delta Flow [cfs] Max Us Velocity [fps] Max Ds Velocity [fps] Max Ds Velocity [fps] PIPE -17 100YR 24HR 0.16 -0.25 -0.04 0.72 -1.73 -1.21 PIPE -17 25VR 24HR 0.12 -0.25 -0.03 0.72 -1.73 -1.21

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]				Max Avg Velocity [fps]
PIPE -22	100YR 24HR	15.01	-0.03	-0.62	8.49	8.49	8.49
PIPE -22	25YR 24HR	15.01	0.00	0.67	8.49	8.49	8.49

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]			Max Avg Velocity [fps]
PIPE -22 (1)	100YR 24HR	5.89	-0.01	0.70	3.33	3.33	3.33
PIPE -22 (1)	25YR 24HR	5.89	0.00	0.70	3.33	3.33	3.33

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]				Max Avg Velocity [fps]
PIPE -24	100YR 24HR	3.45	0.00	-0.49	1.95	1.95	1.95
PIPE -24	25YR 24HR	3.45	0.00	-0.49	1.95	1.95	1.95

Link Min/Max Conditions [INTERNAL]

LITTE WILLTHIGK C	onuntions (nvill	TIVALI					
Link Name	Sim Name	Max Flow	Min Flow [cfs]	Min/Max	Max Us	Max Ds	Max Avg
		[cfs]		Delta Flow	Velocity [fps]	Velocity [fps]	Velocity [fps]
				[cfs]			
PIPE -25	100YR 24HR	2.32	-0.01	-0.37	1.31	1.31	1.31
PIPE -25	25YR 24HR	2.32	-0.01	-0.32	1.31	1.31	1.31

Link Min/Max Conditions [INTERNAL

LITIK WIIIT/ WIGA	Conditions [INTE	KNALJ					
	Sim Name	Max Flow	Min Flow [cfs]	Min/Max	Max Us		Max Avg
		[cfs]		Delta Flow	Velocity [fps]	Velocity [fps]	Velocity [fps]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]				Max Avg Velocity [fps]
PIPE -26	100YR 24HR	0.33	-1.02	-0.11	-1.30	-1.30	-1.30
PIPE -26	25YR 24HR	0.28	-1.00	-0.04	-1.28	-1.28	-1.28

Link Min/Max Conditions [INTERNAL]

Link Name		Max Flow [cfs]					Max Avg Velocity [fps]
PIPE -26 (1)	100YR 24HR	0.27	-0.51	-0.18	-0.65	-0.65	-0.65
PIPE -26 (1)	25YR 24HR	0.20	-0.50	-0.02	-0.63	-0.63	-0.63

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]				Max Avg Velocity [fps]
PIPE -29	100YR 24HR	0.37	-0.35	0.14	0.48	0.48	0.48
PIPE -29	25YR 24HR	0.29	-0.35	-0.15	-0.45	-0.45	-0.45

Link Min/Max Conditions [INTERNAL]

Link Name Sin	n Name	Max Flow [cfs]	Min Flow [cfs]				Max Avg Velocity [fps]
PIPE -30 10	OYR 24HR	0.19	-0.02	0.09	0.24	0.24	0.24
PIPE -30 25	YR 24HR	0.14	-0.02	-0.06	0.18	0.18	0.18

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]				Max Avg Velocity [fps]
PIPE -33	100YR 24HR	0.35	-0.12	-0.04	1.00	1.00	1.00
PIPE -33	25YR 24HR	0.26	-0.09	-0.05	0.75	0.75	0.75

Link Min/Max Conditions [INTERNAL]

Link Name	Max Flow	Min/Max	Max Us		Max Avg
	[cfs]	Delta Flow	Velocity [fps]	Velocity [fps]	Velocity [fps]

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[cfs] Delta Flow Velocity [fps] Velocity [ff	os] Velocity [fps]
PIPE -54 100YR 24HR 2.62 0.00 0.10 3.34 3	.34 3.34
PIPE -54 25YR 24HR 2.15 0.00 0.09 2.86 10	1.54 6.55

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]				Max Avg Velocity [fps]
PIPE-05	100YR 24HR	5.75	-0.04	-1.03	1.83	1.83	1.83
PIPE-05	25YR 24HR	4.71	-0.03	-1.02	1.50	1.50	1.50

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]		Max Us Velocity [fps]		Max Avg Velocity [fps]
PIPE-15	100YR 24HR	2.68	-0.28	-0.29	1.52	1.52	1.52
PIPE-15	25YR 24HR	2.11	-0.28	0.27	1.19	1.19	1.19

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]				Max Avg Velocity [fps]
PIPE-18	100YR 24HR	0.81	-3.07	-0.44	-1.74	-1.74	-1.74
PIPE-18	25YR 24HR	0.81	-2.41	-0.41	-1.36	-1.36	-1.36

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]				Max Avg Velocity [fps]
PIPE-55	100YR 24HR	2.92	-0.01	0.13	3.72	3.72	3.72
PIPE-55	25YR 24HR	2.92	-0.01	0.12	3.72	3.72	3.72

	Elik Will/Wax Coliditors [INTERNAL]											
П	Link Name		Max Flow	Min Flow [cfs]	Min/Max	Max Us	Max Ds	Max Avg				
			[cfs]		Delta Flow	Velocity [fps]	Velocity [fps]	Velocity [fps]				

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]			Max Ds Velocity [fps]	Max Avg Velocity [fps]
PIPE -34	100YR 24HR	0.22	-0.10	0.00	0.63	0.63	0.63
PIPE -34	25YR 24HR	0.16	-0.08	0.00	0.46	0.46	0.46

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]				Max Avg Velocity [fps]
PIPE -35	100YR 24HR	0.12	-0.29	-0.06	1.22	-2.49	-1.73
PIPE -35	25YR 24HR	0.11	-0.29	-0.05	1.21	-2.49	-1.73

LITIK WIIIT/IWIAX C	EITK MIII/MAX CONDITIONS [IN FERNAL]										
Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]		Max Us Velocity [fps]		Max Avg Velocity [fps]				
PIPE -36	100YR 24HR	0.12	-0.03	0.00	0.34	0.34	0.34				
PIPE -36	25YR 24HR	0.09	-0.02	0.00	0.26	0.26	0.26				

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]				Max Avg Velocity [fps]
PIPE -41	100YR 24HR	0.18	0.00	-0.05	1.38	1.86	1.61
PIPE -41	25YR 24HR	0.16	0.00	-0.05	1.42	1.90	1.65

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]		Max Avg Velocity [fps]
PIPE -52	100YR 24HR	0.50	-1.71	-0.14	-2.18	-2.18	-2.18
PIPE -52	25YR 24HR	0.42	-1.71	-0.14	-2.18	-2.18	-2.18

Link Min/Max Conditions [INTERNAL]

ink Name Sim Name Max Flow [cfs]	Min Flow [cfs] Min/Max Delta Flo		Max Ds Velocity [fps]	Max Avg Velocity [fps]
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	Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]		Max Us Velocity [fps]		Max Avg Velocity [fps]
Γ	PIPE-60	100YR 24HR	0.07	-0.02	-0.03	1.09	1.35	1.19
Ī	PIPE-60	25YR 24HR	0.07	0.00	0.00	1.08	1.34	1.18

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name				Max Us Velocity [fps]		Max Avg Velocity [fps]
PIPE-61	100YR 24HR	0.20	-0.05	0.14	0.37	0.37	0.37
PIPE-61	25YR 24HR	0.14	-0.02	0.11	0.25	0.25	0.25

Link Min/Max Conditions [INTERNAL]

Link Na	me Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]			Max Avg Velocity [fps]
PIPE-62	100YR 24HR	0.06	-0.02	-0.03	0.18	0.18	0.18
PIPE-62	25YR 24HR	0.04	-0.01	0.01	0.13	0.13	0.13

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]	Min Flow [cfs]	Min/Max Delta Flow [cfs]	Max Us Velocity [fps]		Max Avg Velocity [fps]
PIPE-63	100YR 24HR	0.10	-0.01	-0.06	0.25	0.18	0.18
PIPE-63	25YR 24HR	0.07	-0.01	-0.06	0.26	0.13	0.15

Link Min/Max Conditions [INTERNAL]

Link Name	Sim Name	Max Flow [cfs]		Min/Max Delta Flow [cfs]			Max Avg Velocity [fps]
PIPE-64	100YR 24HR	6.17	-0.64	-0.14	7.86	7.86	7.86
PIPE-64	25YR 24HR	6.17	-0.54	-0.12	7.86	7.86	7.86

OPERATION AND MAINTENANCE PLAN
FOR
STORMWATER MANAGEMENT SYSTEMS
9th Street Apartments Mulit-Family
MANATEE COUNTY, FL

Prepared b	y: Patrick M. Healy, P.E.	_
Company:	Kimley- Horn and Associates Inc.	

This document outlines the proper procedures for conducting and recording routine inspections and maintenance activities for the Stormwater Management System associated with 9th Street Apartments Multi-Family. Based on the requirements in Sections 12.4.1, 12.5, and 12.6 of the ERP Applicant's Handbook Volume I, effective June 28, 2024, this document outlines an Operation and Maintenance (O&M) plan and specifies the record-keeping requirements to maintain compliance with permitted conditions.

A detailed, written log of all preventative and corrective maintenance activities must be maintained, including a record of all inspections and copies of maintenance-related work orders. The responsible O&M entity must retain this maintenance plan, associated logs, and other records, and make them available for review upon request by permitting agency having jurisdiction over the site.

Owner's Certification:

Wet Detention with Inlets, and Pipes

I hereby certify that I and my successors shall perpetually operate and maintain the stormwater management system and associated elements in accordance with the specifications show herein and on the approved plan.

Owner's Signature	Date
Permit Information:	
Permitting Agency: South West Florida Water Mana	agement District (SWFWMD)
Project Name: 9th Street Apartments Mulit-Family	
Permit No./Application No.: 908262	
Project Description: The project proposes the const	ruction of a 4-story apartment building, along
with all associated utility, roadway, and stormwater	infrastructure needed to support the project.
Responsible O&M Entity:	
Name: 9th Street Apartments Mulit-Family	
Address: 1030 16th Ave S, Suite 500, Nashville, TN	37212
Contact Person: C. Hunter Nelson	
Phone: 980-417-4288	
Email: cnelson@elmingtoncapital.com	
Stormwater Management System Type Jex. wet detention, dry re	tention, swales, pipes, inlets, under drain, list any BMP]

(Refer to the Permitted Plans and Stormwater Management Plan for specific locations and pertinent information about the stormwater system components.)

Inspection Frequencies

Inspections by a Registered Professional:

As determined by ERP Applicant's Handbook Volume I, effective June 28, 2024, outlines in Table 12-1, as seen below. A registered professional or qualified inspector shall submit a report to the permitting agency describing and certifying the results within 30 days of the inspection. The results of required inspections shall be filed with the permitting agency using Form 62-330.311(1), "Operation and Maintenance Inspection Certification".

From ERP Applicant's Handbook, Volume I:

Table 12-1: Inspection Frequencies for common BMPs

Type of System	Inspection Frequency
Dry Retention basins	Once every 3 years
Exfiltration trenches	Once every 2 years
Underground retention	Once every year
Sand or Media Filters	Once every year
Underdrain System	Once every 3 years
Underground vault/chambers	Once every year
Pump Systems	Twice every year
Swales (treatment)	Once every 3 years
Wet Detention systems	Once every 3 years
Wet Detention systems with littoral zones	Once every 2 years
Vegetated Natural Buffers	Once every 5 years
Manufactured Devices	As manufacturer recommends in
	specifications, minimum once every year
Dam systems	Once every year
All other	Once every year

Inspections by the O&M Entity:

The O&M entity shall perform periodic inspections to identify deficiencies in structural integrity, degradation due to insufficient maintenance, or improper operation of project that may endanger public health, safety, welfare, or water resources. The O&M entity shall complete the Operation and Maintenance Inspection Record on a monthly basis and retain inspection logs, with potential for record request from the permitting agency.

A formal inspection shall be conducted and submitted to the permitting agency at least once every three (3) years. Within 30 days of the date of the inspection an inspection report shall be submitted to the permitting agency using Form 62-330.311(1) "Operation and Maintenance Inspection Certification," and Form 62-330.311(3) "Inspection Checklists". The report may also include and updated O&M cost estimates, summary of updates to the O&M plan, and any monitoring reports required by a specific permit condition.

Within 30 days of any failure of a stormwater management system or deviation from the permit, a report shall be submitted to the permitting agency using Form 62-330.311(1) "Operation and Maintenance Inspection Certification".

A regional stormwater management system must notify the permitting agency annually using Form 62-330.311(2), "Regional Stormwater Management System Annual Report". This report must include details of all new systems and their associated discharge volumes, as well as confirmation of the maximum allowable treatment volume accepted by the regional stormwater management system.

For information related to inspections and reporting, refer to Sections 12.5 and 12.6 of the *ERP Applicant's Handbook Volume I*.

General Maintenance Information

Preventive maintenance includes functional procedures required to maintain the permitted operation and safe conditions of the stormwater management system. Typical routine procedures include maintaining landscaping, nutrient management practices, mowing, debris removal, and regular inspections of the stormwater management system.

Corrective maintenance includes the functional maintenance procedures needed to correct a problem or malfunction in a stormwater management system. Corrective maintenance must be performed as needed and in emergency situations.

Routine Maintenance Plan

A. Excess Vegetation Removal

All wet ponds with littoral plantings shall be inspected at least once every two years. Vegetation shall be removed or replaced as needed to meet design standards.

All ponds shall be inspected at least once a month for nuisance / exotic vegetation. All nuisance/exotic vegetation shall be properly removed and disposed of when found.

B. Chemical Weed Control

Application of chemicals shall only be used as a last resort in controlling noxious and aquatic weeds. Any herbicides or pesticides shall be applied in accordance with the manufacturer's recommendations and as approved by a State licensed pest control advisor. Limited applications of weed control chemicals shall be performed in such a manner as to not adversely affect the desirable plant species within littoral zones.

C. Algae Contro

Inspect all wet ponds one (1) time a year during the summer. Treat with a chemical algaecide as needed. To minimize the potential for lake algae blooms, fertilization practices shall follow Florida Cooperative Extension Service recommendations and be kept to the minimum necessary to maintain adequate plant growth and development.

Copper sulfate, commonly used to control algae, shall include chelating agents. Chelated copper sulfate results in lower copper residue, requires lower application concentrations, and furnishes longer periods of control than copper sulfate.

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The established width should be maintained to ensure the continued effectiveness and capacity of the system. Grassed swales should be mowed at a minimum of once every two months to stimulate vegetative growth, control weeds, and maintain the capacity of the system. Inspections, vegetation maintenance, and debris removal are required at least annually.

Inspect check dams for erosion at least annually.

Sediment removal, reseeding, or resodding should be done once every 5 years on an as needed basis as Owner deems reasonably necessary.

Fertilizer and pesticide management should be performed as needed.

D. ID for repair or replace damaged structures or eroded pond banks

Any damaged structures found during the semi-annual inspection shall be repaired to good working condition. If the damage is too great to be repaired, a licensed engineer shall be contacted for next steps.

All eroded pond banks found during the yearly inspection shall be repaired to originally designed slopes.

E. Cleaning schedule

 $\label{thm:lemma$

Inlet and outlet pipe cleaning to removed sediment shall be performed by vac truck once every five years.

All necessary fence repairs shall be completed when found during inspections.

Tree trimming shall be completed at a minimum of once a year.

Operation inspections shall be conducted annually to assure that the stormwater management system functions as designed. Spot inspections during rainstorm events may also be periodically warranted.

Future Capital and Maintenance Expenditures

Attached at the end of this report is the estimated yearly stormwater maintenance costs associate with the proposed improvements.

Pricing estimates were based upon the following documents:

Florida Stormwater Association "BMP Life-Cycle Costing Tool"

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D. Maintenance of Grassed Areas

Once sodded and established, all grassed areas shall be mowed regularly and maintained free from bare earth conditions to prevent the potential for erosion. Grass clippings shall be collected and disposed of properly. Clippings shall not be disposed of in lakes or preserve areas.

All stormwater ponds areas, conveyance swales, and other grassed parts of the stormwater system shall be mowed a minimum of once every month.

All sidewalks within the development shall be edged a minimum of once every month.

E. Trash and Debris Removal

All stormwater pond areas, conveyance swales, and storm inlets shall be inspected for trash and debris build up a minimum of once every month. All trash and debris shall be removed when found.

F. Maintenance of Underdrain Systems

Underdrains are sometimes provided to minimize stagnant water conditions in on-site detention swales. To be effective, underdrains are required to be free from clogging. If drawdown times are observed to be increased or in excess of 36 hours, underdrains in the affected swale area should be inspected and cleaned and additional needed action shall be taken to obtain drawdown times not greater than 36 hours.

Operation Inspections

A. Dry Ponds

All dry ponds must be inspected every 6 months or after a major storm event and any debris must be removed

Accumulated sediments must be removed at least once annually from dry ponds. Embankments and side slopes must be inspected every inspected for erosion at least once per month and repair as needed. Control structures must be inspected once a month maintained and repaired as needed.

Fertilizer and pesticide management should be performed as needed.

B. Pipes

Inlet and outlet pipes must be inspected at least once a month and repaired as needed.

All storm structures must be inspected at least once every 6 months and repaired as needed

All underdrains must be inspected at least once a month and repaired as needed.

C. Grass Swales

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Operation and Maintenance Inspection Record

OPERATION AND MAINTENANCE INSPECTION RECORD STORMWATER MANAGEMENT SYSTEM

Ν	Name of Project: 9 th Street Apartments Mulit-Family							
Р	Project Location: 5420 10TH LN E BRADENTON 34203							
Т	Type of Inspection:							
D	Date of Inspection:							
Α	Anticipated Operation: Satisfactory Unsatisfactory							
			Orisalisiacio	у				
	ITEM				DITION	RECOMMENDED MAINTENANCE		
			ACCEPTAE	BLE	UNACCEPTABLE	(If Required)		
	1. Vegetation							
	2. Discharge Structures							
	3. Grassed Areas							
	4. Conveyance System							
	5. Lake Areas							
	6. Fill Areas							
R	EMARKS							
			-			Signature of Inspector		

Name of Organization Being Represented

Form 62-330.311(1) – Operation and Maintenance Inspection Certification

Form 62-330.311(3) – Stormwater Facility Inspection Checklist

Cost Estimate for the Perpetual Operation and Maintenance of the Stormwater Management System

Form 62-330.301(26) – Certification of Financial Capacity for Perpetual Operation and Maintenance Entities

OPERATION AND MAINTENANCE INSPECTION CERTIFICATION

Name of Inspector:		Florida Registration Number Or Qualified Inspector Number:
Entity providing Inspector Tra	aining:	
Date of completion of Inspec	tor Training:	_
Inspector's Company Name:		
Mailing Address:		
City:	State:	Zip Code:
Phone:	Fax:	Email:
Signature of Inspector		Date
Report Reviewed b	y Permittee:	
Name of Permittee:		
Signature of Permittee		Date
Title (if any)		

OPERATION AND MAINTENANCE INSPECTION CERTIFICATION

Instructions: Submit this form to the Agency within 30 days of completion of the inspection, or after any failure of a stormwater management system or deviation from the permit. This form will be used to document inspections required under Section 12.5 of Applicant's Handbook Volume I. _____ Application No.: ____ Identification or Name of Stormwater Management System: Phase of Stormwater Management System (if applicable): Included Documentation: (check all that are attached) Form 62-330.311(X) "Inspection Checklist" (Required for permitted inspection frequency) ☐ Updated O&M cost estimate ☐ Updated O&M Plan ☐ Monitoring Reports Inspection results: (check all that apply) The undersigned hereby certifies that the works or activities are functioning in substantial conformance with the permit. This certification is based upon on-site observation of the system conducted by me or my designee under my direct supervision and my review of as-built plans. The following maintenance was conducted since the last inspection (attach additional pages if The undersigned hereby certifies that I or my designee under my direct supervision has inspected this surface water management system and the system does not appear to be functioning in substantial conformance with the permit. I am aware that maintenance or alteration is required to bring the system into substantial compliance with the terms and conditions of the permit. As appropriate, I have informed the owner of the following:

a) The system does not appear to be functioning property;

b) That maintenance or repair is required to bring the system into compliance; and c) If maintenance or repair measures are not adequate to bring the system into compliance, the system may have to be replaced or an alternative design constructed subsequent to exponently the the anency helpw. approval by the agency below The following components of the system do not appear to be functioning properly (attach additional pages if needed): Any components of the constructed system that are not in substantial conformance with the permitted system shall require a written request to modify the permit in accordance with the provisions of Rule 62-330.315, F-A.C. If such modification request is not approved by the agency to the provisions of below, the components of the system that are not in conformance with the permit are subject to enforcement action under Sections 373.119, 373.129, 373.136, and 373.430, F.S. Form 62-330.311(1) – Operation and Maintenance Inspection Certification Incorporated by reference in subsection in 62-330.311(2), F.A.C. (June 28, 2024) Page 1 of 2 Stormwater Facility Inspection Checklist Instructions Prior to the inspection, the Inspector should review the permit for the facility and the design or as-built drawing for the facility. This inspection checklist is required for the documentation of the annual inspection of all permitted stormwater systems. Complete all parts of the general data section for the project site. Attach any additional required documentation, if necessary. In the "All Technologies" category, mark all items as "satisfactory" or "unsatisfactory." For all other categories, either select "N/A" and minimize the category or mark all inspection items as "satisfactory" or "unsatisfactory." If the system described does not contain a component that is listed for inspection mark that item as "N/A" For any item marked unsatisfactory, provide a comment below the BMP technology describing maintenance action needed to bring the system back into compliance. Within 30 days of any failure of a stormwater management system or if any components of the constructed system are found to be not in substantial conformance with the permitted system, a report shall be submitted by the permittee or their authorized representative to the Agency using Form 62-330.311(1), "Operation and Maintenance Inspection Certification," ((effective date)), as per 62-330.331(2) F.A.C., describing the remedial actions taken to resolve the failure or deviation. Inspection reports will be submitted by the permittee or their authorized representative to the applicable permitting agency. Each inspection report must be signed by a certified inspector or a registered professional to certify its authenticity. Inspection Checklist General Data Project Name Inspection Date Location Permit Number Time since last storm event □<24 hours □24-48 hours □48-72 hours □>72 hours Permit Effective Date Permit Holder Inspector Name Inspector Contact Information Multiple BMP types in the system No ☐Yes ☐ List All:

Permit drawings have been reviewed No Yes Additional Photos Attached N/A Compliance Activity Record Attached N/A

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Sufficiently trapping sediment
Has additional storage capacity available until next maintenance action

Items for inspection

Debris Cleanout

Trench surface clear of debris*

Inlet areas clear of debris*

Inflow pipes clear of debris*

Overflow spillway clear of debris* Sediment traps or forebays

Sediment buildup has been removed Vegetation

No evidence of missing aggregate between pavers

Recovery
Pervious paving recovers between storms

No evidence of clogging or standing water

Pavement area clean of sediments

Area vacuum swept on a periodic basis
Structural Integrity

No evidence of surface deterioration

No evidence of rutting or spalling No evidence of pavement settling

Sediments

Satisfactory Unsatisfactory

ts (s) condition dence of clogging out caps present if included			No emergent invasive plant life No signs of damage from animal activity	
dence of clogging				
			No signs of stress or disease	
		H	No areas need replanting	
on cells N/A			Dead plant material removed, as necessary	
tion healthy			Upland banks are maintained	
n not overgrown			Flow	
s clippings present *			No signs of channeling or erosion * Maintains minimum permitted water elevation	
nts:			No signs of drought or short-circuiting	-
			Inlets	
nwater Vaults or Tanks ท/ล □			Inlet(s) condition	
for inspection	Satisfactory	Unsatisfactory	Runoff is not short-circuiting the inlet	
Cleanout	Satisfactory	Onsatisfactory	No evidence of trash/debris/sediment in or around inlet *	
area clean of debris*			No evidence of erosion, gullies, rills, or flooding around inlet *	
ery			Vegetation around inlet in good condition	
ers between storms			Outlets/emergency outflow N/A Outlet(s) condition	
dence of standing water			No evidence of trash/debris/sediment in or around outlet *	
isance flooding evident			No evidence of erosion, gullies, rills, or flooding around outlet *	
ents of sediments*			Weir System or Level Spreader N/A	
ural Integrity			Weir system condition	
dence of surface deterioration			No evidence of clogging	
lence of cracking			Clear of debris*	
ence of rutting or spalling			Comments:	
			Vagatativa Natural Duffara	
functioning and in good repair	- - - - - - - - - 	H	Vegetative Natural Buffers N/A ☐	
e venting for access primary and secondary access	- 	 	Items for inspection	Satisfactor
primary and secondary access			Debris Cleanout Buffer clear of debris*	
condition		П	Vegetation	+
ence of scouring			Vegetation Vegetation healthy	
<u> </u>			No emergent invasive plant life	
s) condition			No signs of damage from animal activity	
ence of erosion *			No signs of stress or disease	
ence of clogging			No areas need replanting	\perp
ts:			Dead plant material removed, as necessary	\dashv
			Upland banks are maintained Flow	
tructed Marsh System N/A □			No signs of channeling or erosion *	
or inspection	Satisfactory	Unsatisfactory	Maintain minimum permitted water elevation	- H -
Cleanout	Jansiduory	Sinsatistactory	No signs of drought or prolonged ponding	
System clear of debris*			Inlets	
ysterii clear of debris			Inlet(s) condition	$\perp \perp \perp \perp \perp \perp$
tition s healthy 30.311(3) Inspection Checklist		Page 6 of 11	Runoff is not short Circuiting the inlet Form 62-330.311(3) –Inspection Checklist Incorporated by reference in subsection 62-330,311(3), F,A,C, (June 28, 2024)	
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is healthy 20.311(3) -Inspection Checklist d by reference in subsection 62-330,311(3), F.A.C. (June 28, 2024) ence of trash/debris/sediment in or around inlet * ence of erosion, gullies, rills, or flooding around inlet *			Form 62-330,311(3) -Inspection Checklist Incorporated by reference in subsection 62-330,311(3), F.A.C. (June 28, 2024) No evidence of clogging flow paths or pipes *	
ence of trash/debris/sediment in or around inlet * ence of erosion, gullies, rills, or flooding around inlet * ence of erosion, gullies, rills, or flooding around inlet * ence of erosion, gullies, rills, or flooding around inlet * ence of erosion, gullies, rills, or flooding around inlet * ence of erosion, gullies, rills, or flooding around inlet * ence of erosion, gullies, rills, or flooding around inlet *			Form 62-330.311(3) -Inspection Checklist Incorporated by reference in subsection 62-330,311(3), F.A.C. (June 28, 2024) No evidence of clogging flow paths or pipes * Structural Constructed elements condition Condition of foundation if above ground	
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Inlets	
Inlet(s) condition	
Runoff is not bypassing the inlet	
No evidence of trash/debris/sediment in or around inlet *	
No evidence of erosion, gullies, rills, or flooding around inlet *	
Outlets/emergency overflow	
Outlet(s) condition	
No evidence of trash/debris/sediment in or around outlet*	
No evidence of erosion or flooding *	
Underdrain, if installed	
All cleanouts clear from clogging or blockages *	
Cleanouts in good condition	

Comments:

Bioswale or Raingarden N/A □

Items for inspection	Satisfactory	Unsatisfactory
Site area		
Area clear of excess debris*		
No evidence of erosion or sedimentation *		
Dewatering		
Ponding dewaters between storms		
No evidence of inundation		
Sediment cleanout		
No evidence of sedimentation		
Structural		
Constructed elements condition		
Mulch depth at least 2 inches		
No evidence of damage from wildlife		
No evidence of erosion*		
No sediment build-up*		
Vegetation		
Vegetation healthy		
No emergent invasive plant life		
No areas need replanting		
Not overgrown		
Inlets		
Inlet(s) condition		
Runoff is not short-circuiting the inlet area		
No evidence of trash/debris/sediment in or around inlet area*		
No evidence of erosion, gullies, rills, or flooding around inlet area*		
Plant life around inlets condition		
Outlets/overflow spillway		
Outlet(s) condition		
No evidence of trash/debris/sediment in or around outlet*		

Form 62-330.311(3) Inspection Checklist Incorporated by reference in subsection 62-330.311(3), F.A.C. (June 28, 2024)

Page 10 of 11

red By: Kimley » Horn

FOR INFORMATIONAL PURPOSES ONLY 9TH STREET APARTMENTS MULTI-FAMILY RENTAL DEVELOPMENT ESTIMATED YEARLY MAINTENANCE COSTS					
DESCRIPTION	CONSTRUCTION COST	EXPECTED SERVICE LIFE	TYPICAL ANNUAL MAINTENANCE % OF CONSTRUCTION COST	TOTAL AMOUNT	
Stormwater Pond	\$ 60,000.00	1000	1.5%	\$ 900	
Piping, Storm Sewer	\$ 130,535.00	60	1.0%	\$ 1,305	
Storm Sewer, Outlet Structure, Fixed	\$ 219,137.00	60	0.3%	\$ 657	
Mowing/Vegetation Control	\$ 1,850.00	-	-	\$ 1,850	
				\$ 4,713	

The assumptions used to develop the annual stormwater maintenance costs for the stormwater infrastructure within 9th Street Apartments Multi-Family Rental Development were developed using the following documents:

1.) This estimated yearly maintenance costs was completed based on the proposed improvements within the 9th Street Apartments Multi-Family

- Rental Development.
- Construction Costs are based upon bid pricing provided by the contractor.
 Expected Service Life and Typical Annual Maintenance Percentages have been extracted from Florida Stormwater Association's "BMP Life-Cycle Costing Tool".

Patrick M. Healy, P.E.
State of Florida, Professional Engineer, License
No. 82351

This item has been digitally signed and sealed by Patrick Healy on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Simley-Horn does not control the cost of labor, materials, equipment of services furnished by others, methods of determining prices, or ompetitive bidding or market conditions, any opinions rendered as to costs, including but not limited to opinions as to the costs of onstruction and materials, shall be made on the basis of its experience and represent its judgement as an experienced and qualified professional, familiar with the industry. Kimley-Horn cannot and does not guarantee that proposals, bids or actual costs will not vary from its opinions of cost. If the client wishes greater assurance as to the amount of any cost, it shall employ an independent cost estimator.

No evidence of erosion or flooding *	
Underdrain N/A	
All cleanouts clear form clogging or blockages	
Cleanouts in good condition	
Comments:	

Non-Traditional BMPS

Other Manufactured BMPs N/A

Type of System Items for inspection Satisfactory Unsatisfactory Functioning based on permit and manufacturer specifications No evidence of damage or clogging

Monitoring Devices and Adaptive Controls N/A □

Items for inspection	Satisfactory	Unsatisfactory
Computer components		
Functioning as intended		
Recording data at permitted intervals		
No signs of rusting, corrosion, or other weather damage		

* That May Impair Function

Signature

Statutes

Inspector Name: Signature of Inspector: Florida Registration Number:

Form 62-330.311(3) —Inspection Checklist Incorporated by reference in subsection 62-330.311(3), F.A.C. (June 28, 2024)

Page 11 of 11

Certification Of Financial Capability For Perpetual Operations And Maintenance Entities

Pe	rmit No.: Application No.: 908262 Date Issued (if modification):
Ide	entification or Name of Stormwater Management System: 9th Street Apartments Multi-Family Rental Developmen
Ph	ase of Stormwater Management System (if applicable):
Na	me of Operation and Maintenance Entity: Elmington Capital Group, LLC
Ac	dress of Operation and Maintenance Entity: 1030 16 th Ave South Nashville, TN, 37212
2	Cost estimate attached
the the frec	al annual operating expenses, including maintenance costs, for the estimated remaining useful life of system accounting for annualized capital or replacement costs or deferred maintenance expenses for system, including those components where maintenance or replacement frequencies are less uent that once per year, for each BMP in the stormwater management system and any associated astructure, in current year dollars.
Оре	eration and Maintenance Entity (Select All That Apply):
	Local, state, or federal government agencies; municipal service other special taxing units, water control or drainage districts; community development, special assessment, or water management districts
	Communication, water, sewer, stormwater, electrical, or other public utility
V	Construction permittee (see Section 12, Volume I)
	Non-profit corporations, including homeowners' associations, property owners' associations, condominium owners' or master associations
	Other (Describe the Other Operation and Maintenance Entity below)
Се	rtification by Operation and Maintenance Entity:
Cer	tification Provisions for the Operation and Maintenance Entity (Select All That Apply):
	Municipal Separate Storm Sewer System (MS4) permittee subject to Chapter 62-624, F.A.C. (Identify the applicable Florida Department of Environmental MS4 permit below:)
	Non-profit corporation subject to the Homeowners' Association Act under Chapter 720, Florida

Form 62-330.301(26) -Certification of Financial Capability for Perpetual Operation and Maintenance Entities Incorporated by reference in paragraph 62-330.301(9), F.A.C. (June 28, 2024)

Certification Of Financial Capability For Perpetual Operations And Maintenance Entities

ш	Operation and Maintenance Entity below:)	and Maintenance Entity. (Identity the intended
	Other: Operation and Maintenance Entity not otherw Operation and Maintenance Entity below, such as S Association, etc.:	
com inclu its e the s	below Permittee or Operation and Maintenance Entit plete; and that it has the financial capability to operat iding costs of inspections, operation, repair, and replat xpected life. The signee below will be responsible for stormwater system of the above permit in perpetuity, adoned, or the permit is transferred to a new operation	e and maintain the system in perpetuity scement of the system once the system meets all maintenance, operation, and repair costs for until such time the system is properly
Na	me of Permittee or Operation and Maintenance Entity	Elmington Capital Group, LLC
Na	me: C. Hunter Nelson	Title: Managing Member of ECG Florida 2023 GP, LLC
Sign	ature: C. H.A.C.	Date 1/22/20

Form 62-330.301(26) –Certification of Financial Capability for Perpetual Operation and Maintenance Entities Incorporated by reference in paragraph 62-330.301(9), F.A.C. (June 28, 2024)

Page 2 of 2

BEST MANAGEMENT PRACTICES
GUIDELINES MANUAL

APPENDIX G

BEST MANAGEMENT PRACTICES GUIDELINES

FORWARD

This manual has been prepared 9th Street Apartments Multi-Family Rental Development to address the rules of the Southwest Florida Water Management District. The manual is divided into five (5) sections addressing the following areas:

- 1. Protection of preserved/conserved upland habitats during construction.
- 2. General erosion control.
- 3. Protection of surface water quality during and after construction.
- 4. Control of wind erosion.
- 5. Turbidity monitoring.

The various techniques or actions identified are cross-referenced to specific BMP FIGURES on Sheet C-401 of the attached Construction Plans. A plan sheet showing the FIGUREs shall be incorporated into each set of site construction plans with clear indication of which BMP's are applicable to the specific project.

BMP's BEST MANAGEMENT PRACTICES

SECTION 1 PROTECTION OF PRESERVED/CONSERVED UPLAND HABITATS

1.2 Barricades shall be placed around all protected (preserved) habitats including wetland-fringing hammocks and uplands during construction.

SECTION 2 GENERAL EROSION CONTROL

- 2.1 General erosion control BMP's shall be employed to minimize soil erosion and potential lake slope cave-ins. While the various techniques required will be site and plan specific, they should be employed as soon as possible during construction activities.
- 2.2 Cleared site development areas not continually scheduled for construction activities shall be covered with hay or overseeded and periodically watered sufficient to stabilize the temporary orgonic over.
- 2.3 Slopes of banks of lakes shall be constructed not steeper than 4H:1V from top of bank to two feet below normal water level as shown in FIGURE 6 or as indicated on the construction plans.
- 2.4 All grass slopes constructed steeper than 6H:1V shall be sodded as soon as practical after their construction as shown in FIGURE 13.
- 2.5 Sod shall be placed for a 2-foot wide strip adjoining all curbing and around all inlets as shown in FIGURE 14. Sod shall be placed before silt barriers, shown in FIGURE 7, are removed.
- 2.6 Where required to prevent erosion from sheet flow across bare ground from entering a lake or swale, a temporary sediment sump shall be constructed, as shown in FIGURE 15. The temporary sediment sump shall remain in place until vegetation is established on the ground draining to the sump.
- 2.7 If dewatering during construction results in any temporary standing water body of more than 72 hours duration, the Contractor shall notify the Mosquito Control District by phone (941) 861-9740.

SECTION 3 PROTECTION OF SURFACE WATER QUALITY DURING AND AFTER CONSTRUCTION

- 3.1 Surface water quality shall be maintained by employing the following BMP's in the design and construction of all improvements.
- 3.2 Where practical, stormwater shall be conveyed by swales. Swales shall be constructed as shown in FIGURE 3.

2

c. At any time that watering and/or vegetation are not effective in controlling wind erosion and/or transport of fugitive dust, other methods as are necessary for such control shall be employed. If required, dust control fences shall be constructed in accordance with the detail for a silt fence shown in FIGURE 2 except the minimum height shall be 4 feet.

SECTION 5 PROCEDURE FOR TURBIDITY MONITORING

- 5.1 Turbidity is a quick and efficient method for measuring the relative amount of interference of light on the water column of any aquatic system due to particles held in suspension. Thus, measurements of turbidity can indicate relative levels of material introduced into an aquatic system through anthropogenic and/or natural processes.
- 5.2 During periods of normal flows, monitoring of turbidity levels shall be performed as follows:
 - All measurements of turbidity shall be performed as deemed necessary by the Environmental Consultant, at the locations specified on the Best Management Practices Plan.
 - i. Monitoring shall always start at stations upstream of any construction.
 - ii. All monitoring at stations downstream of construction shall be done last.
 - b. Measurements of turbidity shall not be necessary for the following:
 - High density vegetation areas where development is occurring >500 ft. from a natural body of water.
 - All other areas where development is occurring at >1000 ft. from a natural body of water.
 - A visual check of the entire area shall be performed daily.
 - Any suspicious observations made shall be immediately checked by turbidimeter at both upstream and downstream locations as described in Section 6.2.
 - d. Any station where turbidity levels are out of compliance with County and Florida Water Management Districts standards shall be reported immediately by telephone to the County Pollution Control Division and the corresponding Florida Water Management District and development shall be suspended until turbidity levels reach County and Florida Water Management District standards.
- 5.3 Monitoring during periods of rainfall shall be performed more frequently.
 - a. Only total accumulations of rainfall >0.5" over a two-hour period shall be monitored three times per day until turbidity levels go back to background (i.e., prior to the rain event). As soon as turbidity levels are in violation of County and Florida Water

- 3.3 Erosion control measures shall be employed to minimize turbidity of surface waters located downstream of any construction activity. While the various measures required will be site specific, they shall be employed as needed in accordance with the following:
 - a. In general, erosion shall be controlled at the furthest practical upstream location.
 - b. Stormwater inlets shall be protected during construction as shown in FIGURES 7 and 8. Protection measures shall be employed as soon as practical during the various stages of inlet construction. Silt barriers shall remain in place until sodding around inlets is complete.
 - c. Stomwater piping connecting to existing lakes shall be constructed in accordance with the protective measures shown in FIGURE 9. The silt fence shall be installed prior to laying storm pipe and shall remain in place until disturbed areas of the lake bank are sodded.
 - d. Stormwater piping connecting to existing ditches shall be constructed in accordance with the protective measures shown in FIGURE 10. The silt barrier shall be installed prior to laying storm pipe and shall remain in place until disturbed areas of the lake bank are sodded.
 - e. Swales or ditches connecting to existing ditches shall be constructed in accordance with the protective measures shown in FIGURE 11. The silt barrier shall be installed prior to excavating the proposed ditch or swale and shall remain in place until the proposed ditch or swale is sodded.
 - f. Underground pipe crossings of ditches shall require the use of the protective measures shown in FIGURE 12. Silt fences shall be installed prior to construction of temporary earth berms and shall remain in place until temporary berms are removed and until disturbed areas of ditch bank are sodded.
- 3.4 Heavy construction equipment parking and maintenance areas shall be designed to prevent oil, grease, and lubricants from entering site drainage features including stormwater collection and treatment systems. Contractors shall provide broad dikes, hay bales or sit screens around, and sediment sumps within, such areas as required to contain spills of oil, grease or lubricants. Contractors shall have available, and shall use, absorbent filter pads to clean up spills as soon as possible after occurrence.

SECTION 4 CONTROL OF WIND EROSION

- 4.1 Employing the following methods as necessary and appropriate shall control wind erosion:
 - Bare earth areas shall be watered during construction as necessary to minimize the transport of fugitive dust. It may be necessary to limit construction vehicle speed if bare earth has not been effectively watered.
 - After completion of construction, bare earth areas shall be grassed or landscaped, as soon as practical.

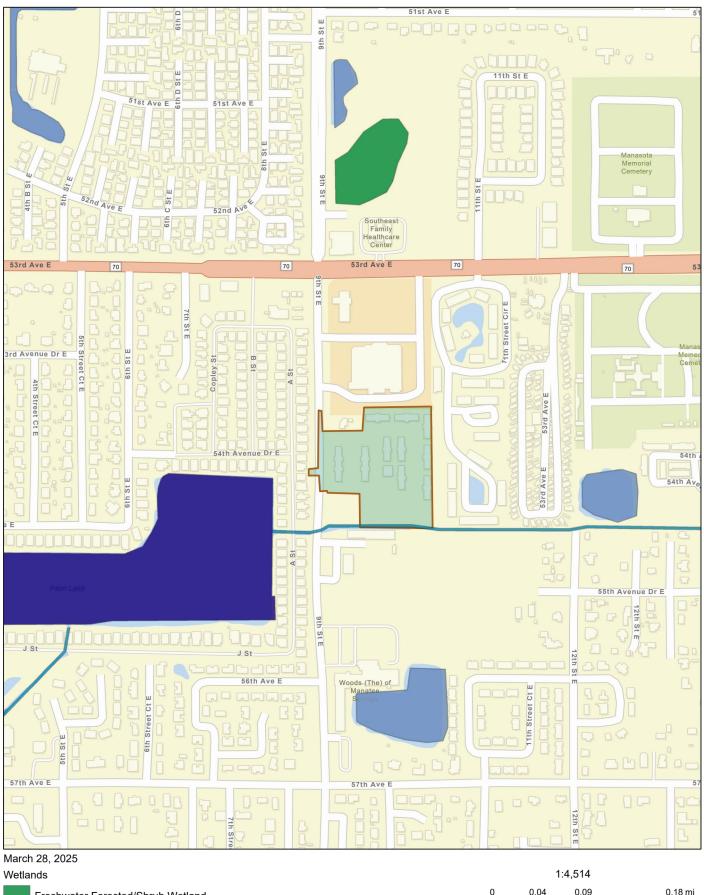
3

- Management District standards, development shall cease. Monitoring of turbidity shall be performed at all development sites regardless of a 500-1000 buffer zone.
- After the rain event, once turbidity levels are in compliance with County or Florida Water Management District standards, daily monitoring can resume (as outlined in
- Rain events with accumulations <-0.5" over a two-hour period will be monitored as described in 6.2.
- 5.4 Dried-up streambeds shall not be monitored until water levels rise sufficiently to warrant any turbidity measurements.

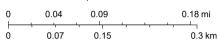
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NWI Wetlands



Wetlands
Freshwater Forested/Shrub Wetland
Freshwater Pond
Lake
Riverine
Project 1



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