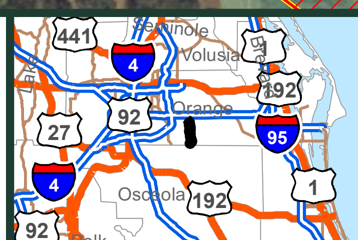
# EXHIBIT 3

# WETLANDS WITHIN SUNBRIDGE PARKWAY PRELIMINARY DESIGN STUDY AREA, ORANGE COUNTY, FLORIDA


## Legend

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

- Project Boundary
- **Potentially Jurisdictional:**
- Uplands
- Wetlands
- Surface Waters
- Wetland Impacts
- Surface Water Impacts
- Upland RHPZ Impacts
- Econlockhatchee River Hydrologic Basin

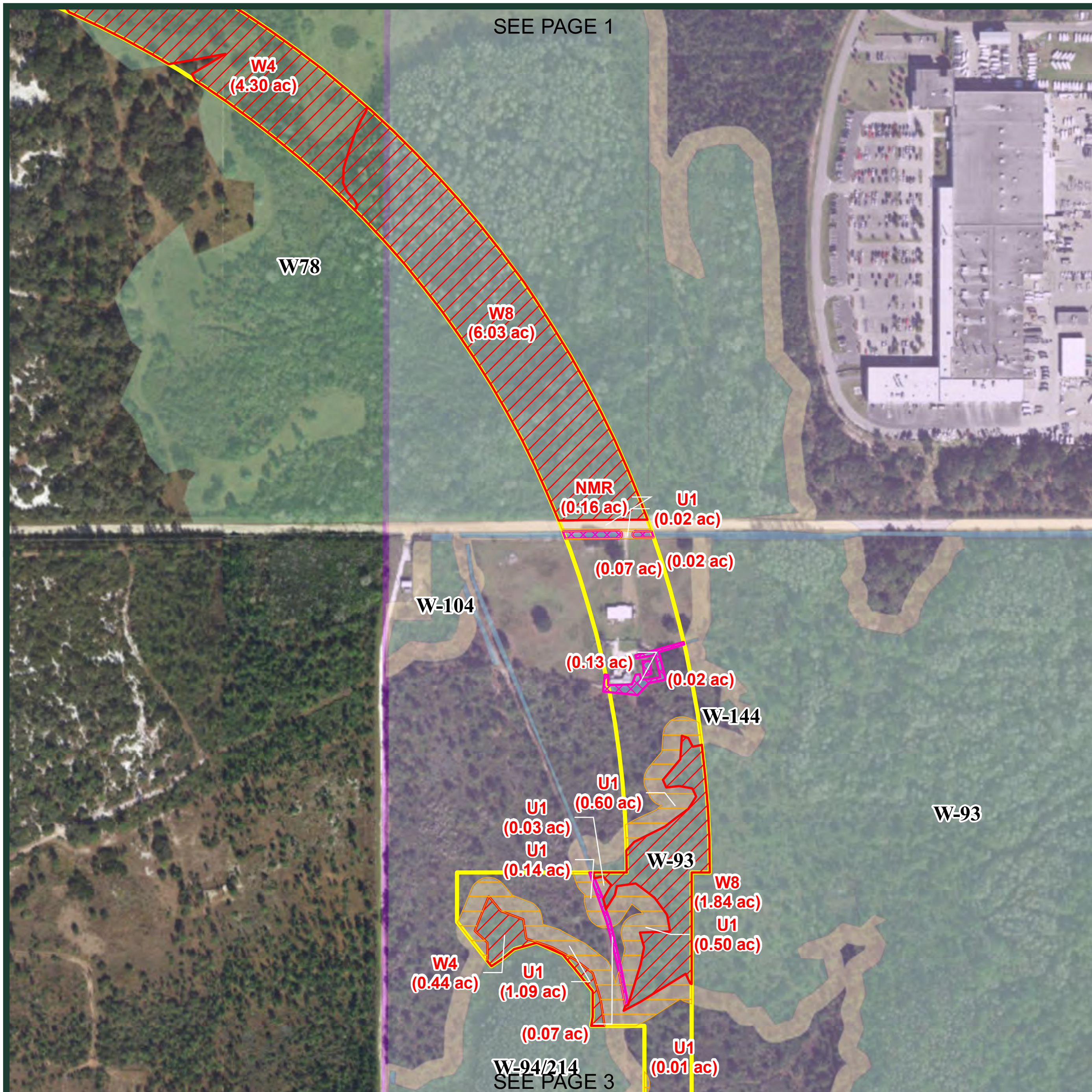



0 200 400 Feet

1 inch = 400 feet

**EXHIBIT 3. (PAGE 1 OF 12)**
**WETLANDS WITHIN SUNBRIDGE PARKWAY PRELIMINARY DESIGN STUDY AREA, ORANGE COUNTY, FLORIDA.**

BDA BREEDLOVE, DENNIS & ASSOCIATES, INC.
Environmental Consultants
330 W. Canton Ave., Winter Park, FL 32789 • 407-677-1882

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Project Boundary

**Potentially Jurisdictional:**

Uplands

Wetlands

Surface Waters

Wetland Impacts

Surface Water Impacts

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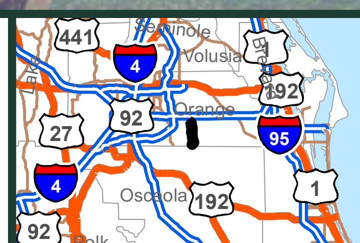
Econlockhatchee River Hydrologic Basin




0 200 400 Feet

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**WETLANDS WITHIN SUNBRIDGE PARKWAY PRELIMINARY DESIGN STUDY AREA, ORANGE COUNTY, FLORIDA.**

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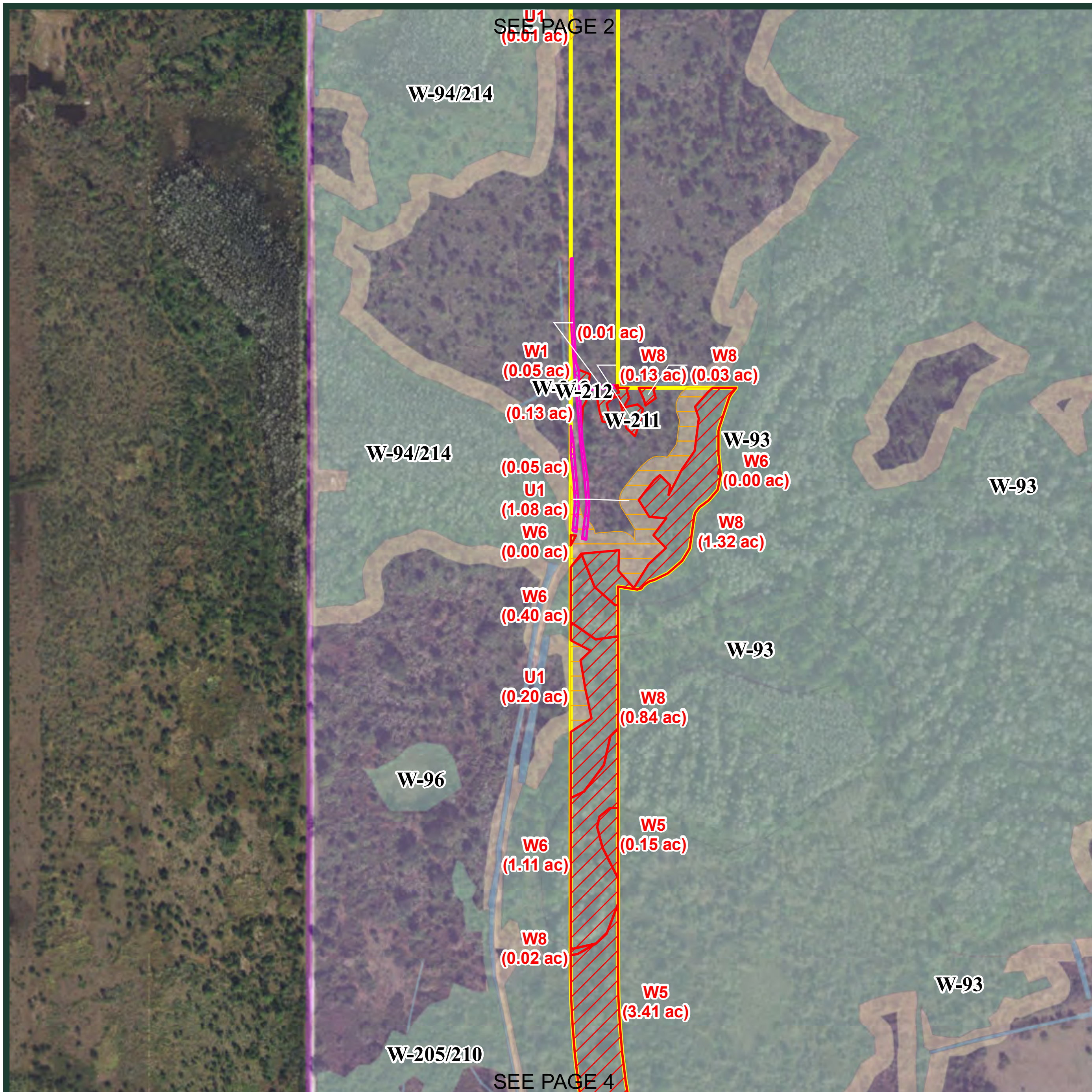


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Project Boundary

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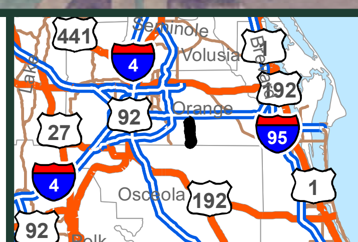


0 200 400 Feet

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**WETLANDS WITHIN SUNBRIDGE PARKWAY PRELIMINARY DESIGN STUDY AREA, ORANGE COUNTY, FLORIDA.**

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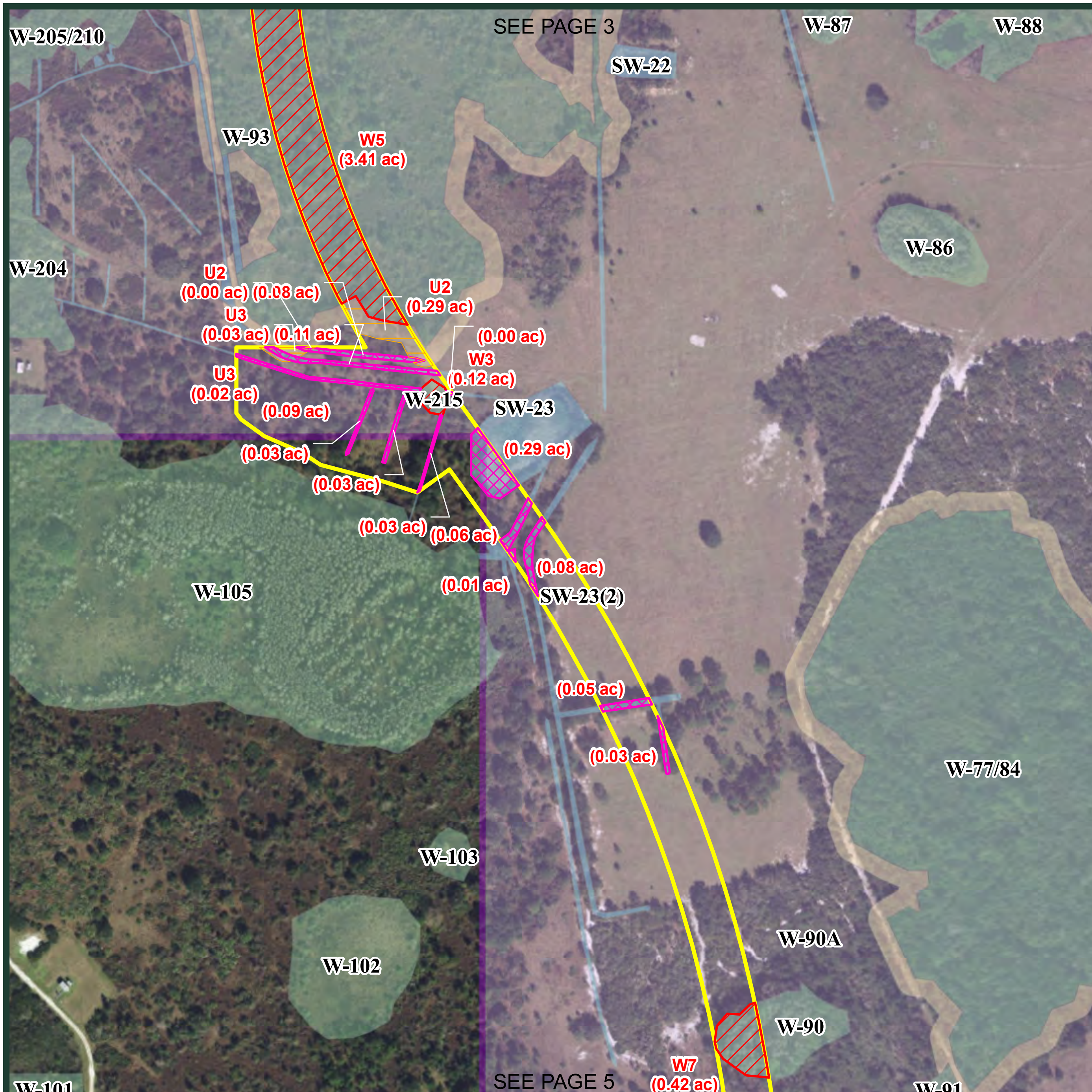


**Legend**

Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Project Boundary

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- Surface Water Impacts
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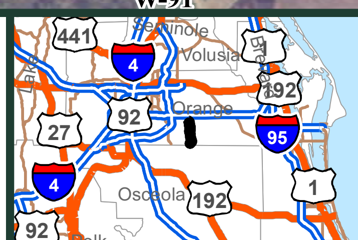


0 200 400 Feet
1 inch = 400 feet

**EXHIBIT 3. (PAGE 4 OF 12)**
**WETLANDS WITHIN SUNBRIDGE PARKWAY PRELIMINARY DESIGN STUDY AREA, ORANGE COUNTY, FLORIDA.**

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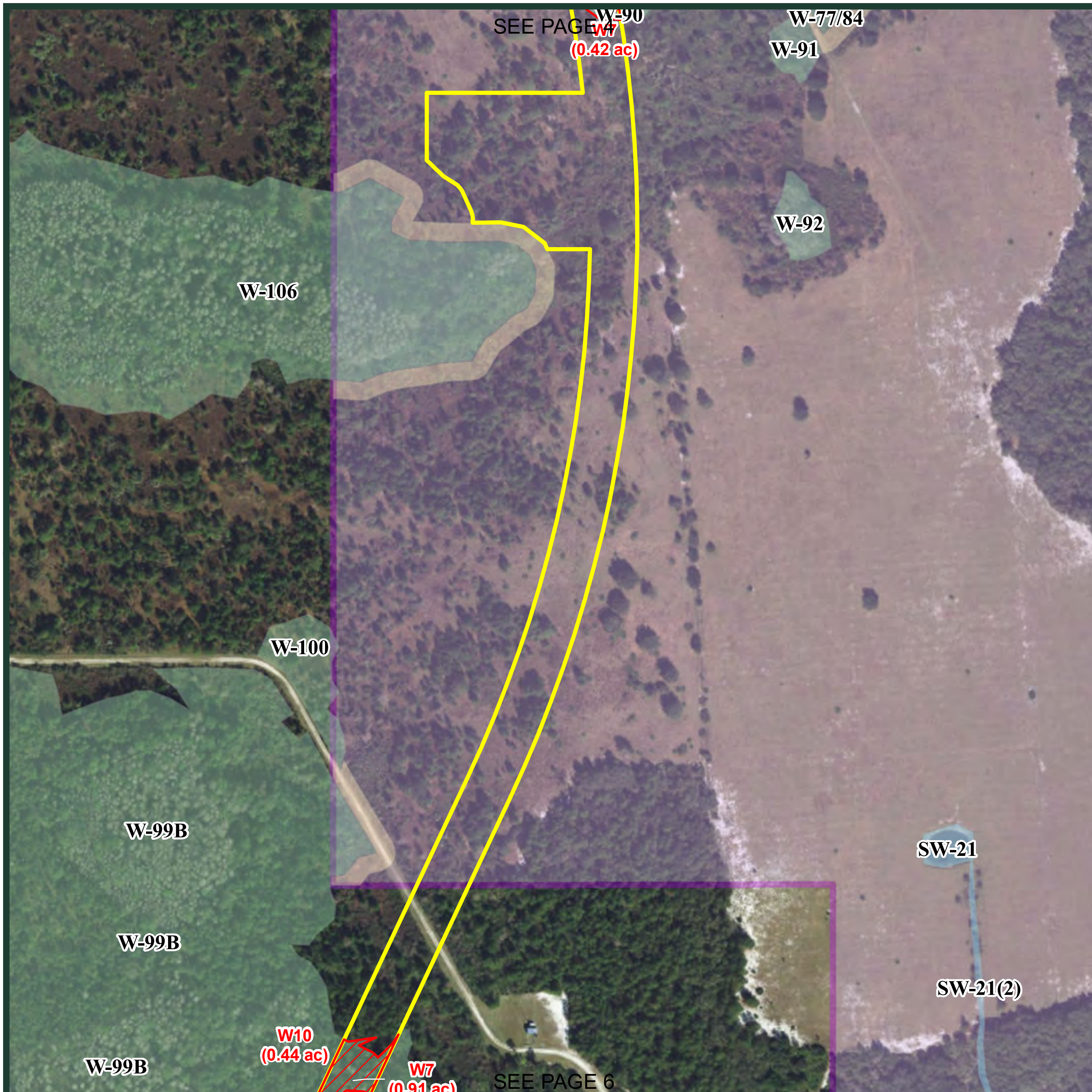


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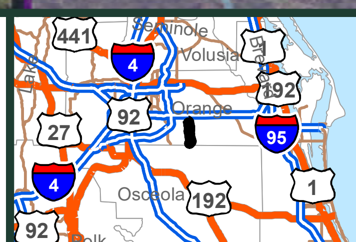


0 200 400 Feet

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**EXHIBIT 3. (PAGE 5 OF 12)**
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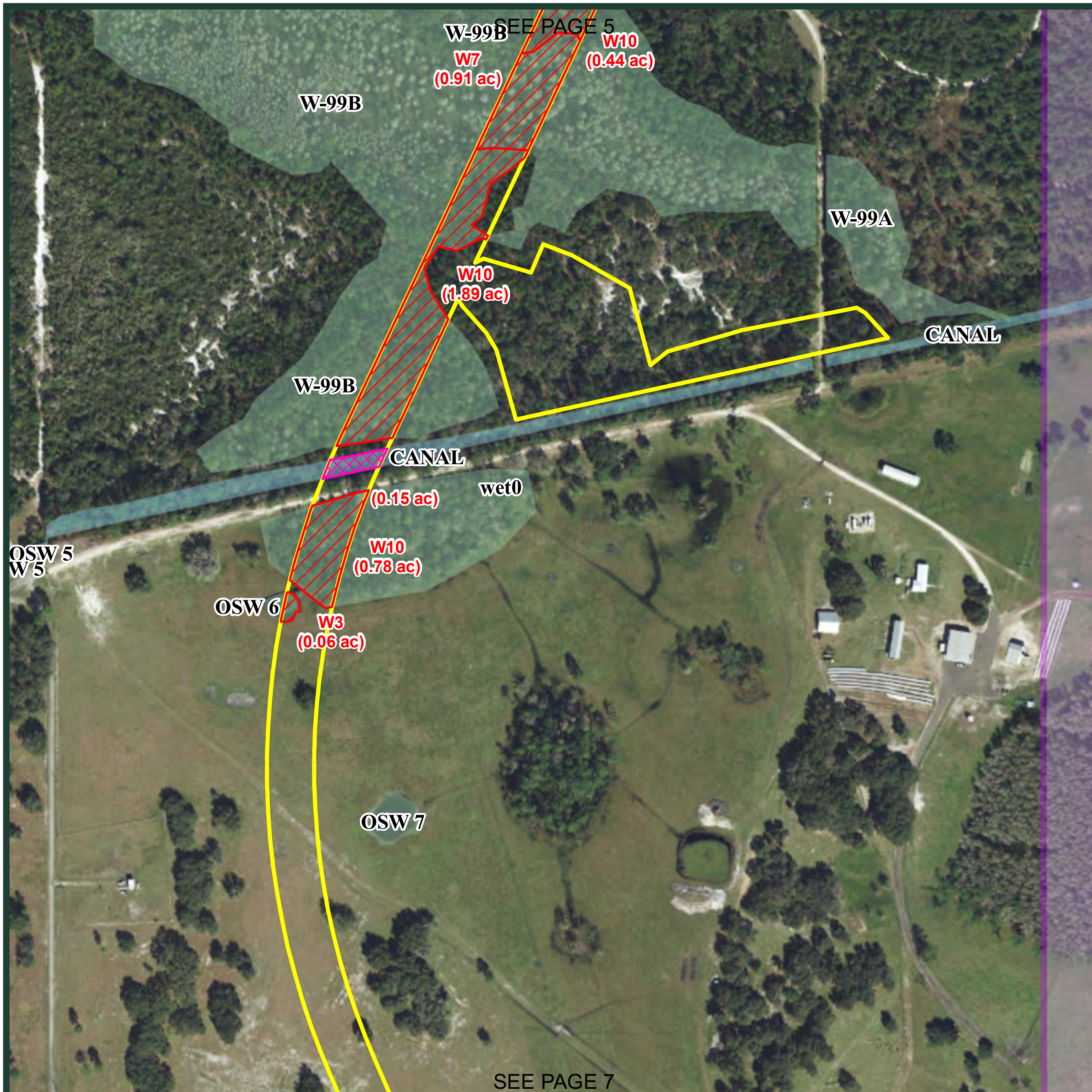


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Project Boundary

**Potentially Jurisdictional:**

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Wetlands

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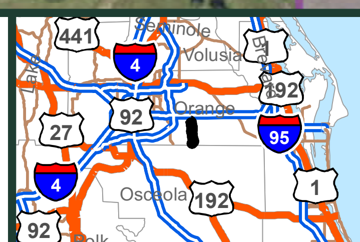
Wetland Impacts

Surface Water Impacts

Upland RHPZ Impacts

Econlockhatchee River Hydrologic Basin

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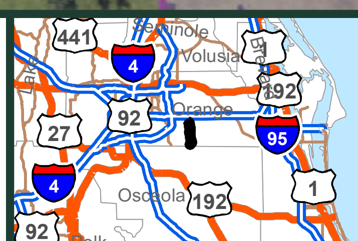


0 200 400 Feet

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**EXHIBIT 3. (PAGE 7 OF 12)**
**WETLANDS WITHIN SUNBRIDGE PARKWAY PRELIMINARY DESIGN STUDY AREA, ORANGE COUNTY, FLORIDA.**


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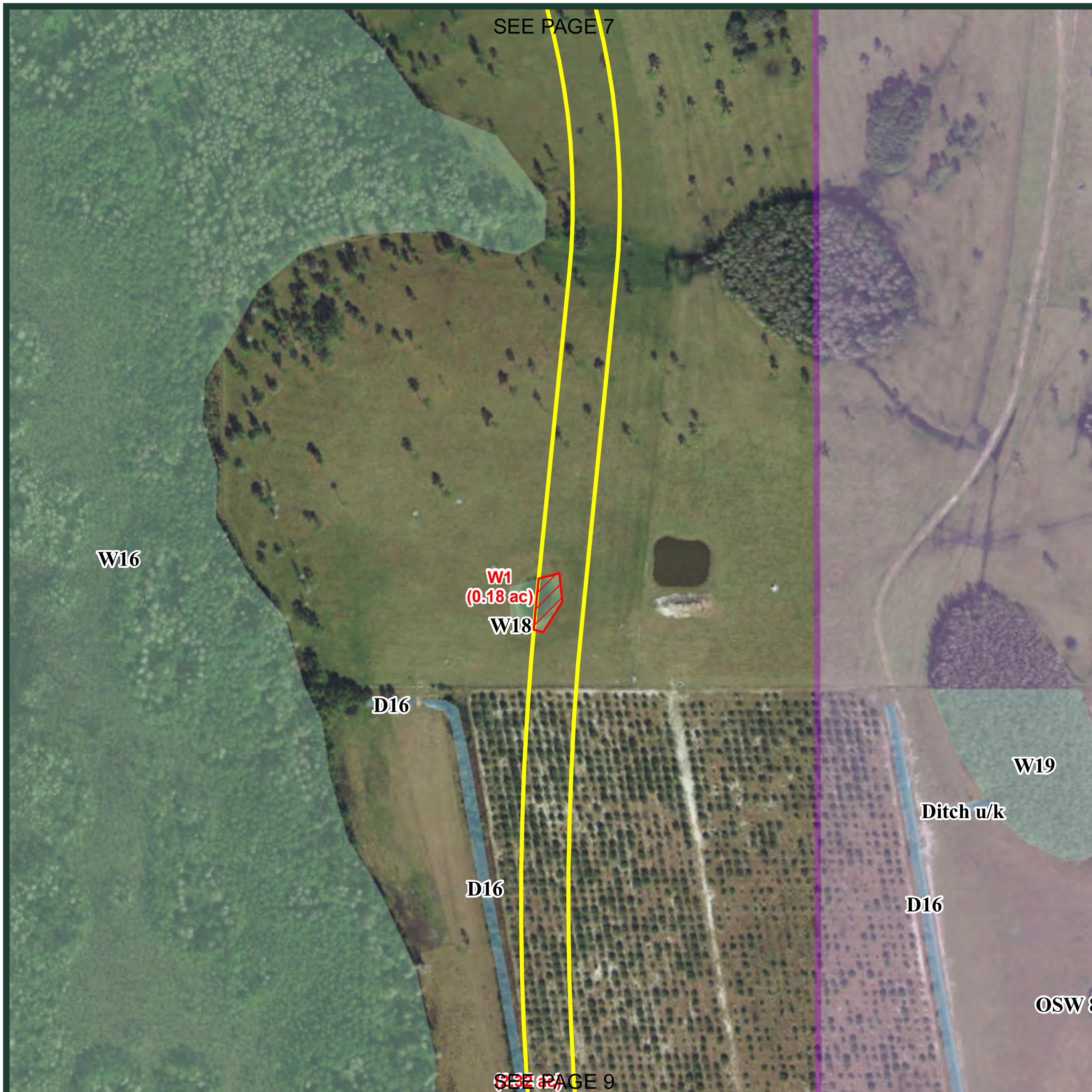


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Project Boundary

**Potentially Jurisdictional:**

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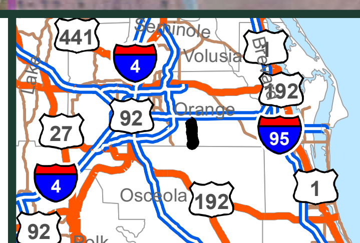
Econlockhatchee River Hydrologic Basin




0 200 400 Feet

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**EXHIBIT 3. (PAGE 8 OF 12)**
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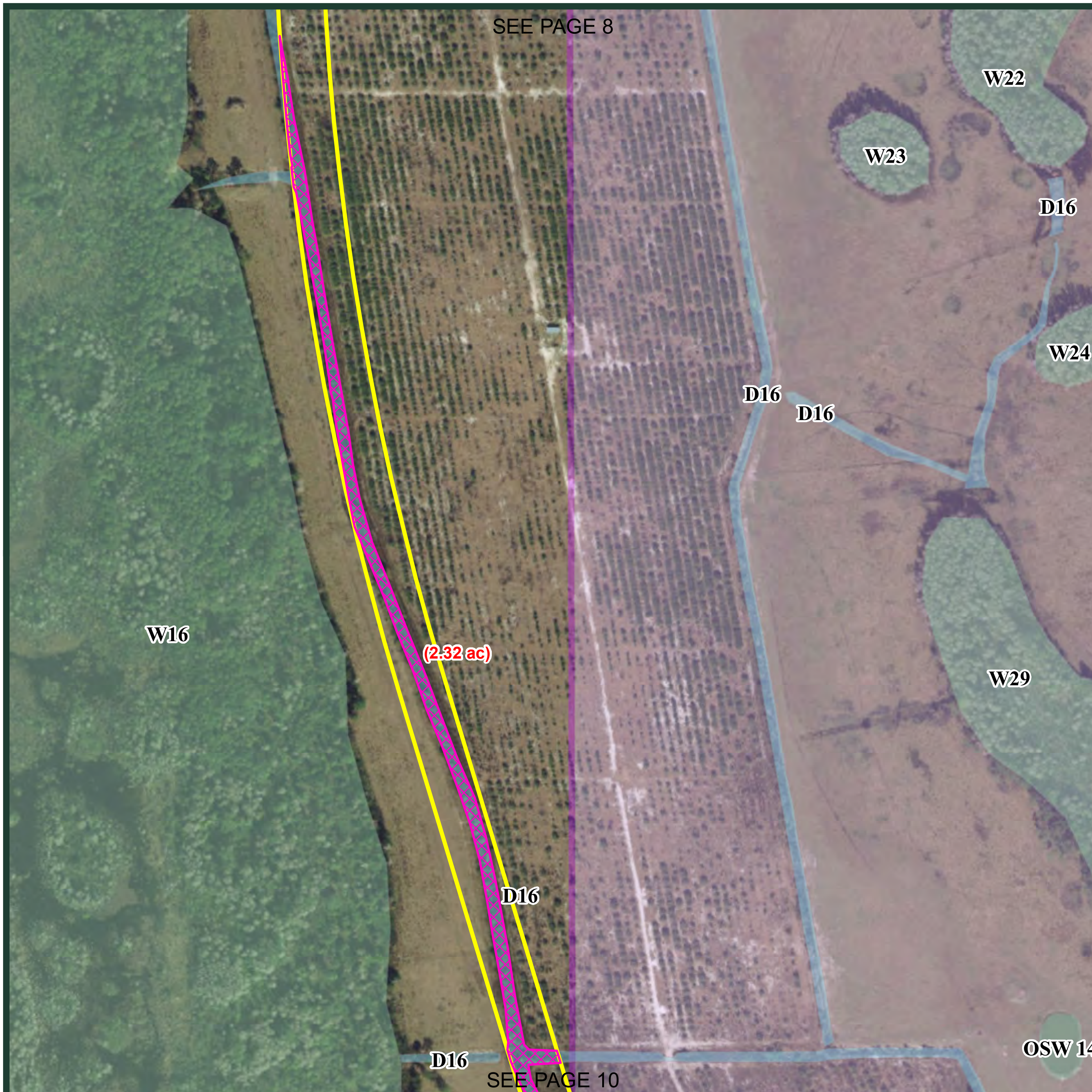


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Project Boundary

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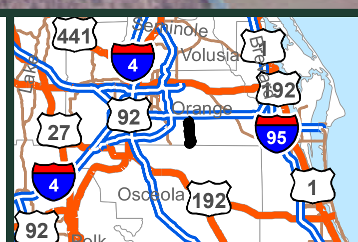


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**EXHIBIT 3. (PAGE 9 OF 12)**
**WETLANDS WITHIN SUNBRIDGE PARKWAY PRELIMINARY DESIGN STUDY AREA, ORANGE COUNTY, FLORIDA.**

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SEE PAGE 9


SEE PAGE 11

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- Project Boundary

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- Uplands
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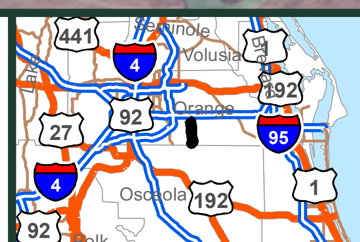


0 200 400 Feet

1 inch = 400 feet

**EXHIBIT 3. (PAGE 10 OF 12)**
**WETLANDS WITHIN SUNBRIDGE PARKWAY PRELIMINARY DESIGN STUDY AREA, ORANGE COUNTY, FLORIDA.**

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- Project Boundary

**Potentially Jurisdictional:**

- Uplands
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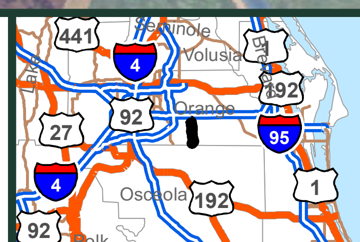


0 200 400 Feet

1 inch = 400 feet

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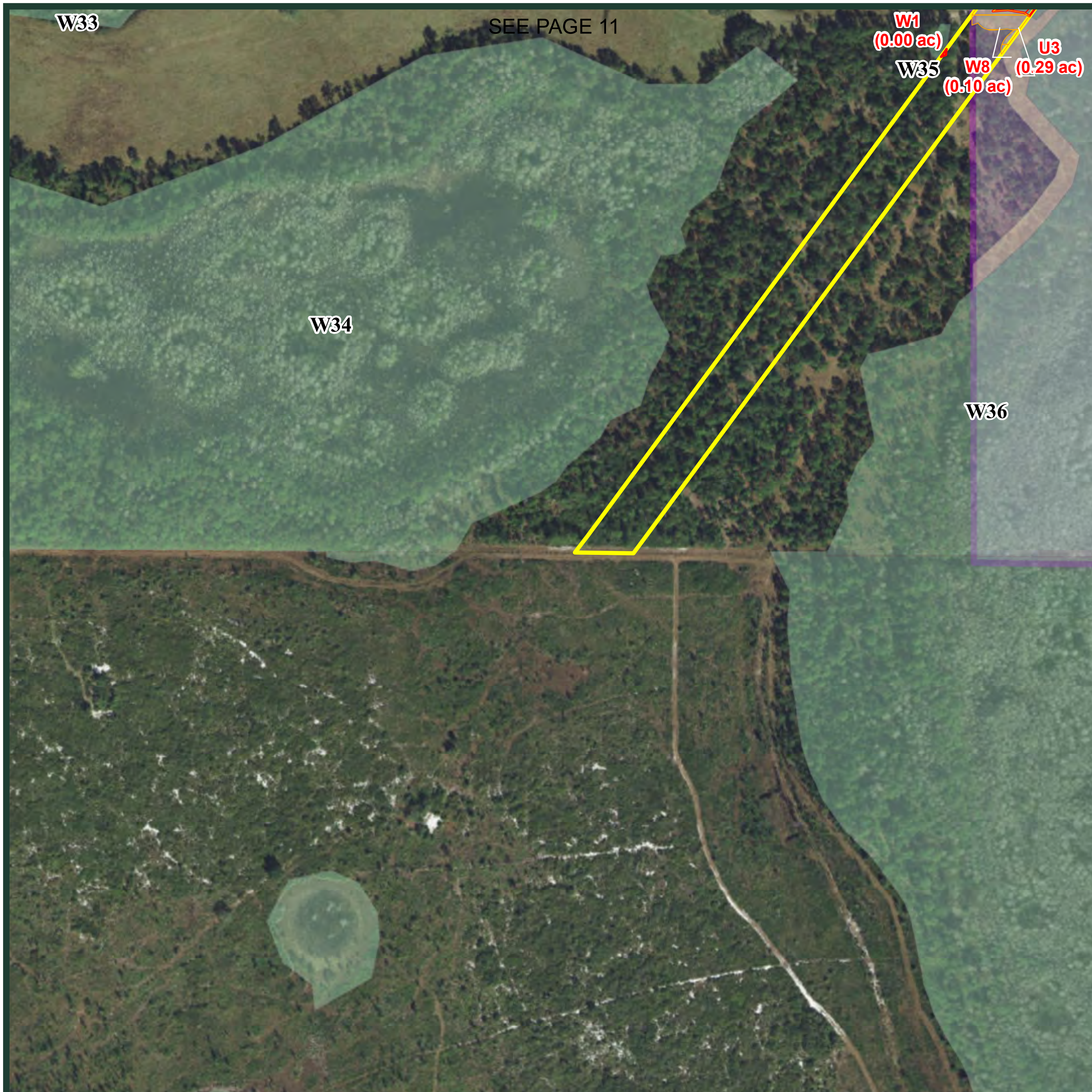


**Legend**

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- Project Boundary

**Potentially Jurisdictional:**

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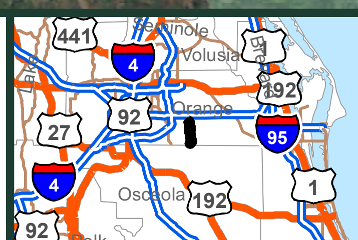


0 200 400 Feet

1 inch = 400 feet

**EXHIBIT 3. (PAGE 12 OF 12)**
**WETLANDS WITHIN SUNBRIDGE PARKWAY PRELIMINARY DESIGN STUDY AREA, ORANGE COUNTY, FLORIDA.**

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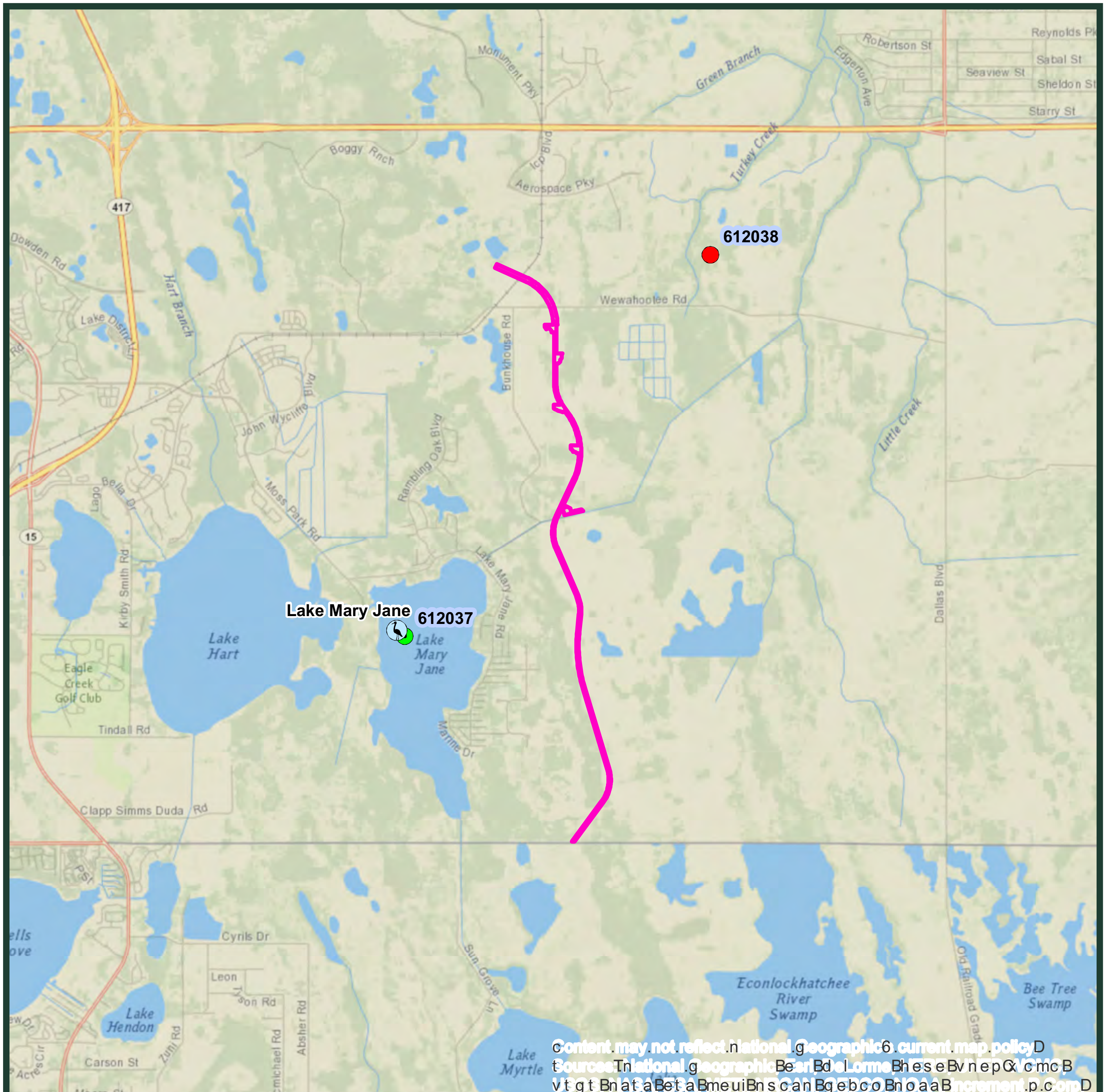
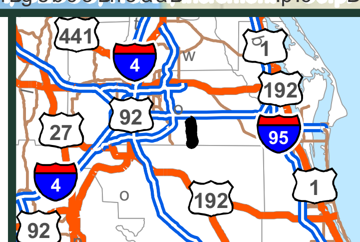
# EXHIBIT 4

# WADING BIRD ROOKIES IN THE VICINITY OF SUNBRIDGE PARKWAY PRELIMINARY DESIGN STUDY AREA, ORANGE COUNTY, FLORIDA




## Legend

Wading Bird Rookeries (1999)



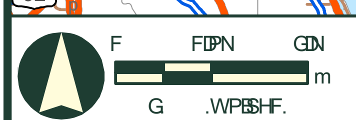
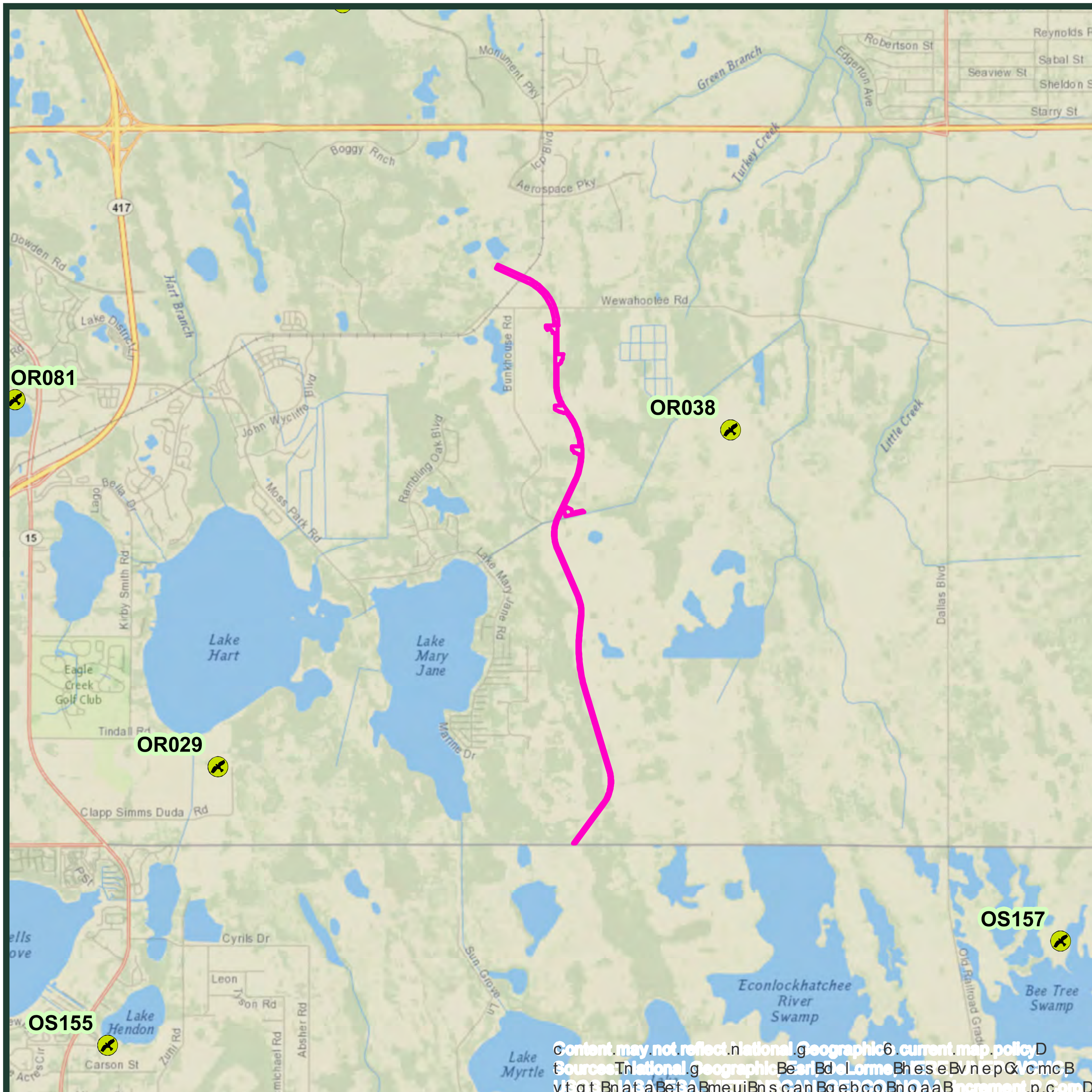



**EXHIBIT 4.**
**WADING BIRD ROOKERIES IN THE VICINITY OF SUNBRIDGE PARKWAY**
**PRELIMINARY DESIGN STUDY AREA, ORANGE COUNTY, FLORIDA.**

BDA
BREEDLOVE, DENNIS & ASSOCIATES, INC.
Environmental Consultants
330 W. Canton Ave., Winter Park, FL 32789 • 407-677-1882

# EXHIBIT 5

# BALD EAGLE NESTS IN THE VICINITY OF SUNBRIDGE PARKWAY PRELIMINARY DESIGN STUDY AREA, ORANGE COUNTY, FLORIDA

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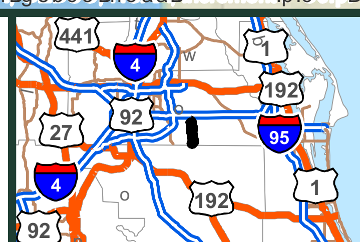
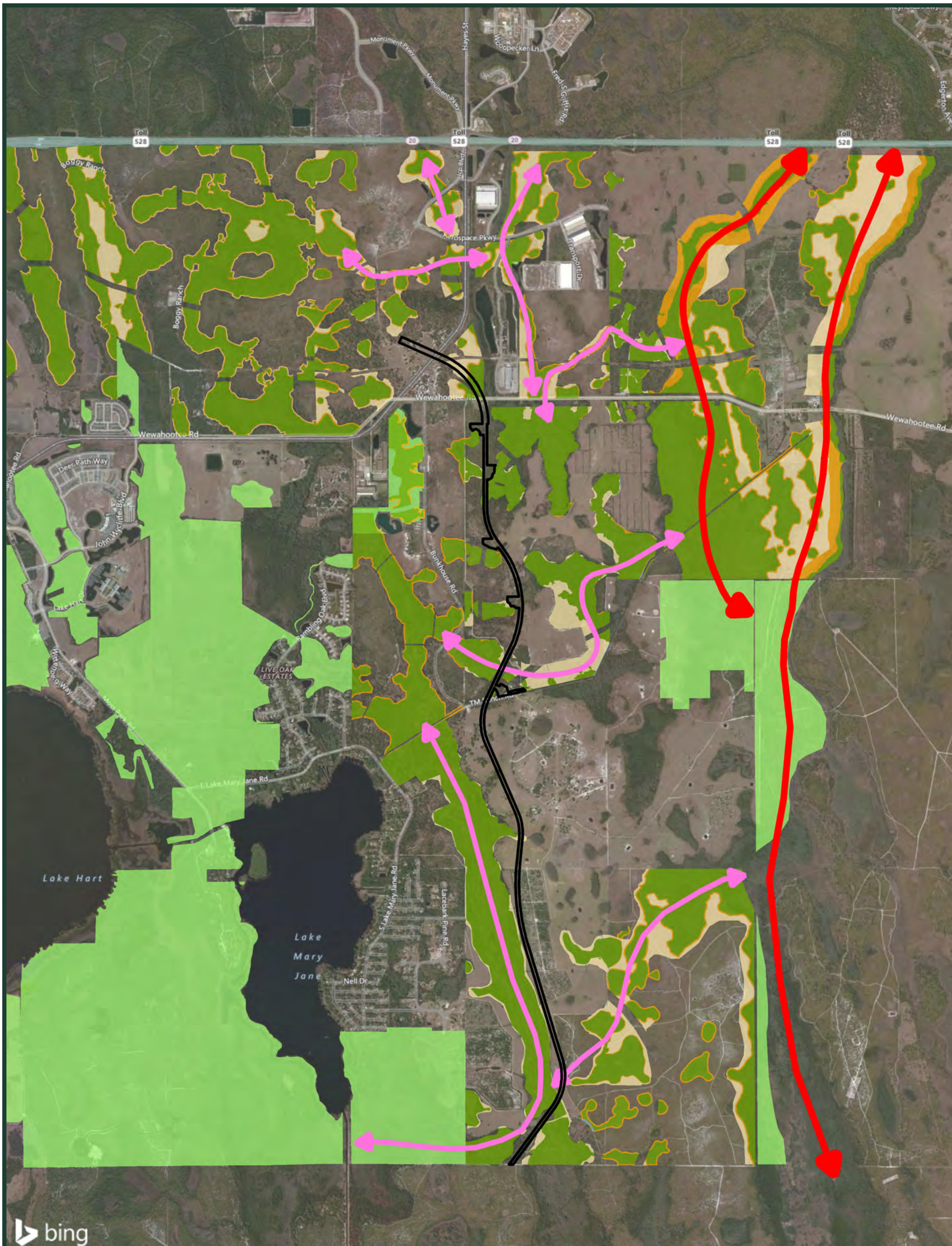


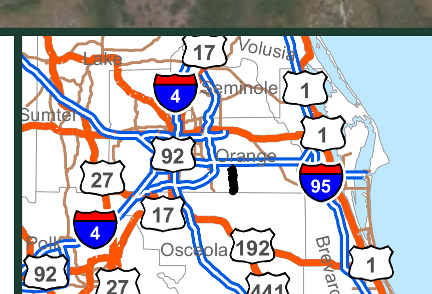

**EXHIBIT 5.**
**BALD EAGLE NESTS IN THE VICINITY OF SUNBRIDGE PARKWAY PRELIMINARY DESIGN STUDY AREA, ORANGE COUNTY, FLORIDA.**

BDA BREEDLOVE, DENNIS & ASSOCIATES, INC. Environmental Consultants
330 W. Canton Ave., Winter Park, FL 32789 • 407-677-1882

# EXHIBIT 6

# ELSP LANDS AND WILDLIFE CORRIDORS IN THE VICINITY OF SUNBRIDGE PARKWAY PRELIMINARY DESIGN STUDY AREA, ORANGE COUNTY, FLORIDA




## Legend

- Intra-Area Wildlife Corridor
- Regional Wildlife Corridor
- Project Boundary

STEWARDSHIP LANDS

- Preservation Areas (Public/Private Easements)
- Conservation Areas (Wetlands)
- Required Regulatory Upland Buffers
- Lands that meet ELSP Goals

Source: Orange County ELSP Adopted Map "STEWARDSHIP LANDS" (4-20-2010) provided by Orange County; www.ocepd.org / tim.hull@ocfl.net on 2016-01-25.

0 1,800 3,600 Ft.
1 inch = 3,600 feet

**EXHIBIT 6.**

**ELSP LANDS AND WILDLIFE CORRIDORS IN THE VICINITY OF SUNBRIDGE PARKWAY PRELIMINARY DESIGN STUDY AREA, ORANGE COUNTY, FLORIDA.**

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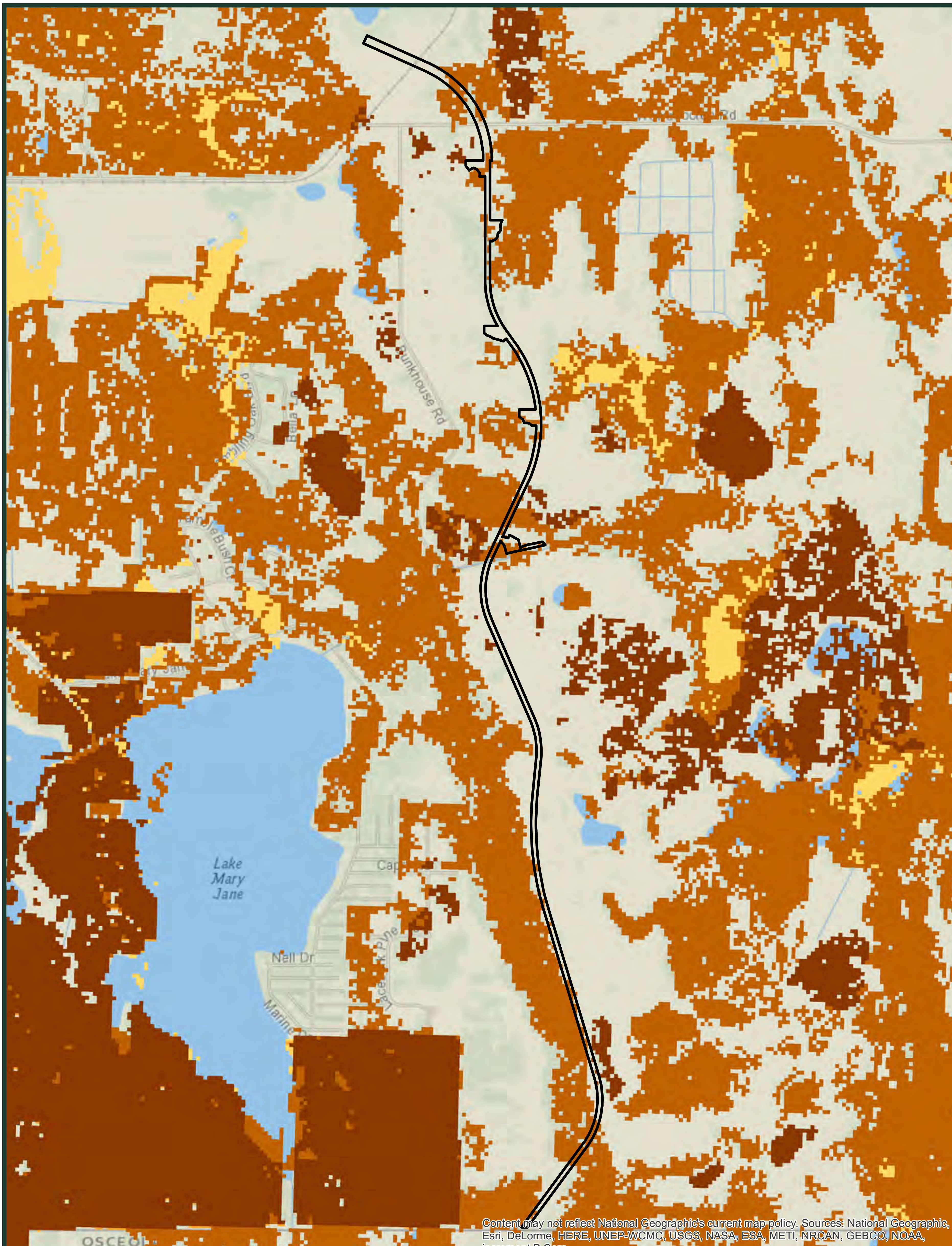
# EXHIBIT 7

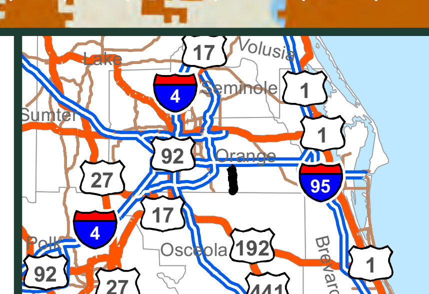
# STRATEGIC HABITAT CONSERVATION AREA PRIORITIES
# IN THE VICINITY OF
# SUNBRIDGE PARKWAY PRELIMINARY DESIGN STUDY AREA,
# ORANGE COUNTY, FLORIDA




Source: Critical Lands and Waters Identification Project (CLIP): Version 4.0 Technical Report – September 2016. (http://www.fnai.org/clip.cfm)

**Legend**

- Project Boundary
- Priority 1- HIGHEST
- Priority 2
- Priority 3
- Priority 4
- Priority 5




0 1,250 2,500 Ft.
1 inch = 2,500 feet

**EXHIBIT 7.**

**STRATEGIC HABITAT CONSERVATION AREA PRIORITIES IN THE VICINITY OF SUNBRIDGE PARKWAY PRELIMINARY DESIGN STUDY AREA, ORANGE COUNTY, FLORIDA.**

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Environmental Consultants
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Appendix K

Hydrologic and Natural Features

by Donald W. McIntosh Associates, Inc.

K

**Water Quality**

The majority of the portion of the project located within the SJRWMD is located within the Econlockhatchee River basin, which is listed as an Outstanding Florida Water (OFW). As a result of the OFW design criteria, an additional 50% of the required treatment and permanent pool volumes is required in all systems within the SJRWMD regulatory boundary.

The portion of the project lying within the SFWMD is located within the Upper Kissimmee River basin, which eventually contributes to Lake Okeechobee, an impaired water body (IWB). As a result of the IWB design criteria, an additional 50% water quality treatment volume will be required. A site-specific pollutant analysis for the pollutant of concern (phosphorous) is also required for all project systems within the SFWMD regulatory boundary.

**Floodplains and Floodways**

There are multiple areas of 100-year floodplain, typically associated with the wetland areas affecting the roadway corridor. There is no floodway within the corridor. The floodplains are designated as Zone A (no elevation established) on the FEMA FIRMs. As of this writing, draft calculations to determine the 100-year floodplain elevations have been produced and have been the basis for a Conditional Letter of Map Revision (CLOMR; April 29, 2011) over the portion of the project area north of Wewahootee Road providing a basis for future establishment of Zone AE elevations and for a Letter of Map Revision (LOMR), effective as of September 22, 2017, over the portion south of Wewahootee Road establishing the Zone AE floodplain elevations there.

Portions of Sunbridge Parkway will be constructed within the floodplain. Mitigation for the displaced floodplain volume will be required and is typically provided through the compensating storage process in which additional floodplain volume is created. Current expectations are that compensating storage will be provided in the stormwater management ponds, stormwater management/conveyance swales and/or dedicated compensating storage areas. The locations and mechanisms will be determined during the engineering design phase of the project.

**Drainage Outfalls**

The ultimate stormwater outfalls are the Econlockhatchee River via the area's wetlands and Lake Okeechobee via wetland flows to Lakes Hart, Mary Jane and Myrtle, canal flow to the Kissimmee River and river flow to Lake Okeechobee.

Appendix L

Conceptual Drainage,

Floodplain Impact Analysis, Pond Siting Report

by Donald W. McIntosh Associates, Inc.

L

DONALD W. McINTOSH
ASSOCIATES, INC.

Sunbridge

# SUNBRIDGE PARKWAY PDS
# (SEGMENTS 2, 3 & 4)

## CONCEPTUAL DRAINAGE AND FLOODPLAIN IMPACT ANALYSIS

CIVIL ENGINEERS

LAND PLANNERS

SURVEYORS

**OCTOBER 2017**

**SUBMITTED TO:**

**Orange County**

**PREPARED BY:**

**DONALD W. McINTOSH ASSOCIATES, INC.**
**Certification of Authorization No. 68**
**2200 Park Avenue North**
**Winter Park, Florida 32789**
**Phone (407) 644-4068 • Fax (407) 644-8318**

2200 Park Ave. North

Winter Park, FL

32789-2355

Fax 407-644-8318

407-644-4068

http://www.dwma.com

## TABLE OF CONTENTS:

**NARRATIVE AND SUMMARY**





DONALD W. McINTOSH Associates, Inc.
2200 PARK AVENUE NORTH, WINTER PARK, FLORIDA 32789-2355 • (407) 644-4068 • FAX (407) 644-8318
http://www.dwma.com

**APPENDICES**

Appendix A - Maps
1. Vicinity Map
2. USGS Quad Map
3. Aerial Map
4. NRCS Soil Map
5. FEMA Flood Zone Map

Appendix B – Pre-Development Routing Analysis
1. Pre-Development Basin Map and Nodal Diagram
2. Pre-Development Hydrology Calculations
3. Pre-Development ICPR Model Input
4. Pre-Development ICPR Basin Maximum Conditions
5. Pre-Development ICPR Nodal Maximum Conditions

Appendix C – Post-Development Routing Analysis
1. Post-Development Basin Map and Nodal Diagram
2. Post-Development Hydrology Calculations
3. Post-Development ICPR Model Input
4. Post-Development ICPR Basin Maximum Conditions
5. Post-Development ICPR Nodal Maximum Conditions

Appendix D – Water Quality Analysis
1. Wet Detention Water Quality Calculations

Appendix E – Roadside Swale Water Quantity and Quality Analysis
1. Swale Section Hydrology Calculations
2. Swale Section Basin Runoff Calculations
3. Dry Retention Water Quality and Quantity Calculations

Appendix F – Floodplain Impact Analysis
1. Compensating Storage Exhibits
2. Compensating Storage Supporting Calculations



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**SUNBRIDGE PARKWAY PDS**
**(SEGMENTS 2, 3 & 4)**
**CONCEPTUAL DRAINAGE AND FLOODPLAIN IMPACT ANALYSIS**

## A. PROJECT OVERVIEW AND LOCATION

Segments 2, 3 and 4 of Sunbridge Parkway encompass ±33,500 LF (±6.3 mile) of proposed roadway located in southeast Orange County, Florida, within Sections 6, 7, 18, 19, 30, and 31, Township 24S, Range 32E, and Section 1, Township 24S, Range 31E. These segments are a portion of the overall Sunbridge Parkway, which totals ±37,900 LF (±7.2 miles) and when completed, will connect the Orange County and Osceola County portions of the Sunbridge master-planned development. The road will generally run north and south, beginning at a connection to the southern end of Segment 1 in the former International Corporate Park (ICP) DRI. The road will run southerly through the former Innovation Way East (IWE) and Camino Reale South (CRS) developments until it reaches the Osceola County portion of the Sunbridge development at the Osceola County line. Please refer to the Vicinity Map in Appendix A for further location information.

Sunbridge Parkway is divided into 6 segments, based on location and typical section. Segment 1 is not within the scope of the PDS and thus is not directly covered in this report. Segments 2A, 2B and 3A include the urban (curb-and-gutter) sections through the former ICP and IWE areas, while segments 3B and 4 include the rural (open drainage) sections through the IWE and CRS areas, respectively.

## B. PURPOSE AND SCOPE OF ANALYSIS

The purpose of this analysis is to establish the location of the stormwater management system to serve Sunbridge Parkway and to demonstrate preliminary design of the system, based on the proposed alignment in the PDS. All preliminary design and analysis is done according to standards outlined by the applicable regulating authorities, which include the South Florida Water Management District (SFWMD), the St Johns River Water Management District (SJRWMD), and Orange County.

## C. EXISTING CONDITIONS AND GENERAL SITE INFORMATION

### 1. Existing Drainage and Topography

Topography within segments 2, 3, and 4 of the Sunbridge Parkway Corridor ranges from an elevation of 78 ft NAVD88 along the OUC railroad in the north and 75 ft within the Camino Reale South portion down to an elevation of 63 ft at the Disston Canal crossing. General topographic information for the project area is depicted on the U.S.G.S. Quad Map included in Appendix A.

The road generally drains into two major water bodies, Lake Hart to the west and the Econlockhatchee River to the east, although a small portion of the southern end of the road drains to the Myrtle/Joel/Preston chain of lakes. Runoff from the project area flowing west flows through either Robert's Island Slough, the Disston Canal, or various other wetlands before reaching Lake Mary Jane, and eventually Lake Hart. Runoff flowing east travels through a series of


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wetlands to the Econlockhatchee River Swamp, eventually reaching the Econlockhatchee River. Please refer to the Pre-Development Basin and Nodal Map in Appendix B for further information on existing drainage patterns.

### 2. Project Area

The proposed limits of work for Sunbridge Parkway total approximately 167.5 acres, all of which is applicant-owned.

### 3. Existing Land Use

The FLUCCS data for the project work limits indicate that the roadway will be constructed on areas containing improved and unimproved pastures, citrus groves, pine flatwoods, hardwood forest, shrub and brushland, and wetlands.

### 4. Soils and Groundwater

Please refer to the NRCS Soil Map in Appendix A for a graphical representation of the soil types described in the Natural Resources Conservation Service (NRCS) Soil Survey of Orange County. For more detailed description of the soils within the road corridor, please refer to the preliminary geotechnical engineering services reports done by PSI.

### 5. 100-Year Floodplain

The road corridor is located within areas designated as Zone A, Zone AE, Zone X (shaded), and Zone X (unshaded), as shown on FEMA FIRM panels 12095C0475F and 12095C0675F. However, segments 2B-4 of the road run through an area whose flood limits were recently revised under FEMA Letter of Map Revision (LOMR) case no. 16-04-8268P, effective 9/22/17, for panels 12095C0475F and 12095C0675F. Please refer to the FEMA flood zone map in Appendix A for the locations and elevations (if applicable) of the flood limits, as established in the recent LOMR.

## D. WATER QUANTITY

### 1. Proposed Drainage Overview and Pond Siting

Runoff from segments 2, 3, and 4 of Sunbridge Parkway will be managed by a combination of either wet detention ponds or roadside swales. Runoff from Segments 2A, 2B, 3A, and 3B will be managed in eight wet detention ponds, which will provide water quality treatment and peak discharge rate attenuation in accordance with SFWMD or SJRWMD, and Orange County requirements before discharging to the adjacent wetlands.

Three of the ponds, located within the former ICP area, are proposed to be joint-use ponds and are sited in the context of the master development plan for that area. The two most northerly interconnected ponds (denoted as SMA-6C-2 and SMA-6C-3 in the calculations) are conceptually designed to serve Segment 1 and a portion of Segment 2A of Sunbridge Parkway in addition to residential development, commercial development, and public facilities. The southern joint-


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use pond (denoted as SMA-13 in the calculations) is conceptually designed to serve the remainder of Segment 2A in addition to a proposed future County park and recreation facility.

Runoff from segments 2B, 3A, and 3B will be managed in 5 wet detention ponds, which are not proposed to be joint-use ponds and were conceptually designed to serve only Sunbridge Parkway. The ponds were sited giving consideration to a number of constraints, including avoidance and minimization of wetland and floodplain impacts, maintaining natural drainage patterns, and minimization of fill requirement.

Runoff from Segment 4 will be managed in dry roadside swales, which will provide water quality treatment and runoff volume reduction before discharging to the adjacent wetlands. The roadside swales are designed to retain the difference in volume between the pre-development and post-development runoff for the design storm.

The existing off-site flow patterns along the proposed roadway will be generally preserved in the developed condition by the addition of culverts at locations dictated by the existing topography. Please refer to the Post-Development Basin Map and Nodal Diagram in Appendix C for further information on proposed drainage patterns.

## 2. Design Criteria

The proposed stormwater management system has been conceptually designed, as summarized below, in accordance with the SFWMD Environmental Resource Permit Applicant's Handbook, Volume II (where applicable), the SJRWMD Environmental Resource Permit Applicant's Handbook, Volume II (where applicable), and the County Comprehensive Plan, Objective SM1.5:

<u>Discharge Rate Control:</u>

SJRWMD: Limit the post-development peak discharge rate to that of pre-development for the 25-year mean annual frequency, 24-hour duration storm events.

SFWMD: Limit the post-development peak rate of discharge to that of the pre-development for the 25-year frequency, 24-hour duration storm event.

Orange County: Limit the post-development peak rate of discharge to that of the undeveloped condition for the 25-year frequency, 24-hour duration storm event.

<u>Special Basin Criteria:</u>

Econlockhatchee River Hydrologic basin (SJRWMD): Limit the post-development peak discharge rate to that of pre-development for the 25-year, 24-hour and mean annual (rainfall depth of 4.5 inches) design storm events.


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Freeboard:

Orange County: The freeboard for open ponds shall be a minimum of one foot above the design high water elevation (25-year, 24-hour storm). The stage resulting from the 100-year, 24-hour storm shall not exceed the top-of-bank elevation for the pond.

## 3. Methodology

### a. Runoff Hydrographs

Curve Number:
Hydrologic simulation and hydraulic routing of the design storm events were performed using the NRCS Unit Hydrograph Method. Curve numbers were obtained from the NRCS TR55 Manual, Second Edition, June 1986. Curve numbers are based on hydrologic soil group and land cover.

Rainfall Distribution:
Orange County Distribution

Total Rainfall (From Technical Publication SJ 88-3: Rao, 1988):
Mean Annual, 24-hour: 4.5 inches
25-year, 24-hour: 8.6 inches
100-year, 24-hour: 10.6 inches

Time of Concentration:
The simplified form of the Kinematic Wave Equation, as outlined in the NRCS TR 55 Manual, Second Edition, June 1986.

### b. Routing Simulations

Routing calculations for Segments 2A, 2B, 3A, and 3B were performed using Interconnected Channel and Pond Routing (v4.03.02) by Streamline Technologies, Inc. Since the ponds within Segment 2A were designed as part of the master development plan and receive runoff from future development areas, the entire stormwater management system for Sunbridge Parkway (including Segment 1) and the Sunbridge PD Neighborhoods A-D PSP was included in the routing model, which included all adjacent wetlands affected by the proposed development. This approach was deemed to provide a more complete hydrologic and hydraulic picture of the area in the pre- and post-development condition.

For purposes of preliminary analysis, pre-development versus post-development runoff volume calculations were done for the roadside swale section of the road (Segment 4), thus no routing was done for this section. It is anticipated that the roadside swales will contain ditch blocks with primary outfalls at low points consisting of a stabilized weir or modified FDOT type C control structure and pipe outfall. Roadside swale grading, ditch block placement, and outfall placement and design will occur at the time of final design of Segment 4 of Sunbridge Parkway.

### c. Boundary Conditions


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The boundary conditions at the 11 tailwater nodes for the routing model were obtained from the "Innovation Way East-Camino South Application for a FEMA Letter of Map Revision", prepared by Donald W. McIntosh Associates in September 2016 and reviewed by Orange County prior to submittal for FEMA review. The boundary conditions include both time-stage relationships and static elevations, depending on the relative stages of the tailwater node and the upstream nodes. Time-stage relationships were obtained for each storm event. The type and elevation(s) of the boundary conditions at each tailwater node are summarized in Table 1 below.

Table 1. Boundary Condition Summary

| Boundary Node | Boundary Condition Type | Boundary Condition Elevation(s) (ft NAVD88) |
|---|---|---|
| TW-N-075 | Time-stage | 69.0-69.9 |
| TW-N-090 | Time-stage | 65.0-66.0 |
| TW-N-091 | Static | 64.8 |
| TW-N-131 | Time-stage | 63.2-66.3 |
| TW-N-141 | Static | 64.0 |
| TW-N-157 | Time-stage | 61.0-64.1 |
| TW-N-158 | Time-stage | 64.7-65.6 |
| TW-N29 | Static | 75.0 |
| TW-W11-7 | Static | 71.2 |
| TW-W22 | Time-Stage | 70.0-72.2 |
| TW-W37-3 | Time-stage | 62.3-66.2 |

## 4. Results

Table 2 summarizes the peak discharge rates for the 25-year frequency, 24-hour duration storm event from the pre and post-development analyses. Attenuation for the mean annual, 24-hour storm event will be addressed with SJRWMD at the time of conceptual ERP application.

Table 2. 25-year, 24-hour Inflow Comparison for Tailwater Nodes

| Boundary Node | Pre-Development Q (cfs) | Post-Development Q (cfs) | Receiving Water Body |
|---|---|---|---|
| TW-N-090 | 22.66 | 19.17 | Econ River |
| TW-N-091 | 555.13 | 441.01 | Econ River |
| TW-N-141 | 150.07 | 151.96 | Econ River |
| TW-N-158 | 11.56 | 13.73 | Econ River |
| TW-W11-7 | 228.94 | 244.81 | Econ River |
| TW-W37-3 | 120.06 | 100.81 | Econ River |
| **Subtotal:** | **1221.34** | **971.49** | |
| TW-N-075 | 32.82 | 32.78 | Lake Hart |
| TW-N-131 | 135.53 | 122.70 | Lake Hart |
| TW-N-157 | 109.78 | 61.47 | Lake Hart |
| TW-N29 | 213.41 | 235.88 | Lake Hart |
| TW-W22 | 307.47 | 256.68 | Lake Hart |
| **Subtotal:** | **799.57** | **700.51** | |

Table 3 summarizes the design peak stages in the wet detention ponds resulting from the 25-year, 24-hour and 100-year, 24-hour storm events. The results demonstrate that the required freeboard is provided.

Table 3. Design Peak Stage Summary for the Wet Detention Ponds

| Wet Detention Pond | Top of Bank Elevation (NAVD88) | 25-24 Design Peak Stage | 100-24 Design Peak Stage |
|---|---|---|---|
| SMA-6C-2 | 77.5 | 76.43 | 76.73 |
| SMA-6C-3 | 77.5 | 76.55 | 77.04 |
| SMA-13 | 73 | 71.97 | 72.38 |
| SMA-1 | 74 | 72.92 | 73.10 |
| SMA-2 | 71.5 | 70.46 | 70.66 |
| SMA-3 | 76 | 75.03 | 75.30 |
| SMA-4 | 76.5 | 75.25 | 75.73 |
| SMA-5 | 70 | 68.92 | 69.12 |

The pre-development versus post-development runoff volume calculations in Appendix E demonstrate that the proposed roadside swales in Segment 4 provide adequate retention volume such that the runoff volume discharging to the adjacent wetlands is not increased due to the construction of the road for the 25-year, 24-hour storm event. This indicates that the post-development discharge rate will likely not increase above the pre-development rate for the given road design.

## E. WATER QUALITY

### 1. Design Criteria

The proposed stormwater management system has been conceptually designed, as summarized below, in accordance with the SFWMD Environmental Resource Permit Applicant's Handbook, Volume II (where applicable), the SJRWMD Environmental Resource Permit Applicant's Handbook, Volume II (where applicable), and the County's Comprehensive Plan, Objective SM1.5:

#### a. Treatment Volume

<u>Wet Detention</u>:

SJRWMD: Treatment volume shall be provided for the first inch of runoff from the developed site or the total runoff of 2.5 inches times the percentage of impervious, whichever is greater. The permanent pool must provide at least a 14-day residence time during the wet season (June-October).

SFWMD: Treatment volume shall be the greater of the first inch of runoff from the basin or 2.5 inches of runoff times the percentage of imperviousness.

Orange County: Treatment volume shall be the greater of the first inch of rainfall runoff over the developed project area or the total runoff of 2.5 inches of rainfall times the percentage of imperviousness, whichever is


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greater. Pool depths should be a minimum of six feet below the design normal water level.

Dry Retention:
SJRWMD: Offline retention of the first 0.5-inch of runoff from the developed project or the total runoff from 1.25-inches times the impervious area, whichever is greater. For online retention, 0.5-inch additional treatment volume is required over that required for offline treatment.

Orange County: Retention of 0.5-inch of runoff from the developed site of the runoff generated from the first 1 inch of rainfall on the developed site, whichever is greater.

Special Basin Criteria:

Outstanding Florida Waters (OFW): The Econlockhatchee River is listed as an OFW, and is subject to OFW criteria. Consequently, the required treatment and permanent pool volumes shall be increased by 50% for systems discharging within this basin.

Impaired Water Bodies: Systems which eventually contribute to Lake Okeechobee are subject to impaired water body criteria. As a result, an additional 50% water quality treatment volume shall be provided and a site-specific pollutant analysis for the pollutant of concern (phosphorous) is required.

**b. Recovery**

Wet Detention:

SJRWMD: The outfall structure should be designed to drawdown no more than one-half of the required treatment volume within 24 and 30 hours following the design storm event, but no more than half of this volume will be discharged within the first 24 hours.

SFWMD: The outfall structure should be designed to drawdown no more than one-half inch of the required treatment volume within 24 hours following the design storm event

Dry Retention:

SJRWMD: Following the design storm event, the treatment volume must be recovered within 72 hours.

**2. Methodology**

8 wet detention ponds and approximately 36,250 LF of roadside swales to provide water quality management are proposed for the road. The portion of the roadway located within the SJRWMD regulatory boundary is also within the regulatory boundary of the Econlockhatchee River Hydrologic Basin. As a result, an additional 50% of the required treatment and permanent pool volumes


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have been provided in all stormwater management systems within the section. The portion of the roadway located within the SFWMD regulatory boundary is deemed to be in the Upper Kissimmee River basin, which eventually contributes to Lake Okeechobee, thus it is subject to impaired water body criteria. As a result, an additional 50% water quality treatment volume has been provided. A site-specific pollutant analysis has not been provided with this report, but will be addressed with SFWMD through the ERP application process.

### 3. Results

The water quality calculations are provided in Appendix D and demonstrate that adequate treatment volume will be provided within the 8 wet detention ponds and roadside swale system. Recovery times for the wet detention ponds will meet the design criteria stated above. Dry retention recovery analyses will be provided in accordance with District criteria at time of construction permit application.

## F. FLOODPLAIN IMPACT ANALYSIS

### 1. Design Criteria

The proposed road corridor and stormwater management system have been conceptually designed in accordance with floodplain management requirements set forth in the County's Comprehensive Plan, Objective C1.3, Policies C1.3.1, C1.3.3, SM1.1.5, and SM1.5.2. These requirements state that compensating storage must be provided to offset floodplain encroachment, that floodway encroachment be restricted, and that retention/detention systems shall be located and designed to not reduce the existing floodplain storage.

### 2. Methodology

Floodplain impacts were calculated over the encroachment area based on the filled volume between the established or estimated elevation resulting from the 1% annual chance (100-year frequency) flood and the higher of the existing ground elevation or estimated seasonal high water elevation. Where Zone AE flood limits/elevations were not established, the Zone A flood limits were used with an elevation obtained from the routing model results contained in the "Innovation Way East-Camino South Application for a FEMA Letter of Map Revision", prepared by Donald W. McIntosh Associates in September 2016 and reviewed by Orange County prior to submittal for FEMA review.

Compensating storage areas were calculated based on the floodplain impact areas. Where possible, compensating storage volumes are provided within the stormwater management areas (SMA's). The volume of water between the design normal water level and the adjacent 100 year flood stage was calculated and used as compensating storage to offset the floodplain impact. Where SMA's were not an option, areas that were directly connected to the impacted flood plain, but outside of the Orange County Conservation Area Determination (CAD) wetland limits, were designed to be excavated to or below the seasonal high water table. The volume of compensating storage was then calculated


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between the seasonal high water elevation in the floodplain and the 100 year flood elevation

## 3. Results

The compensating storage exhibits in Appendix F show that approximately 30,400 c.y. of floodplain impact is expected based on the proposed alignment and conceptual stormwater management system design. However approximately 34,300 c.y. of compensating storage is conceptually proposed to offset this impact, consisting of both hydraulically connected wet detention ponds and excavated areas outside of the right-of-way. Supporting calculations are also provided in Appendix F.


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# APPENDIX A
# MAPS

# Sunbridge Parkway PDS (Segments 2-4)

Sections 6, 7, 18, 19, 30, & 31, Township 23 S, Range 32 E; Section 1, Township 24S, Range 31E
Orange County, Florida

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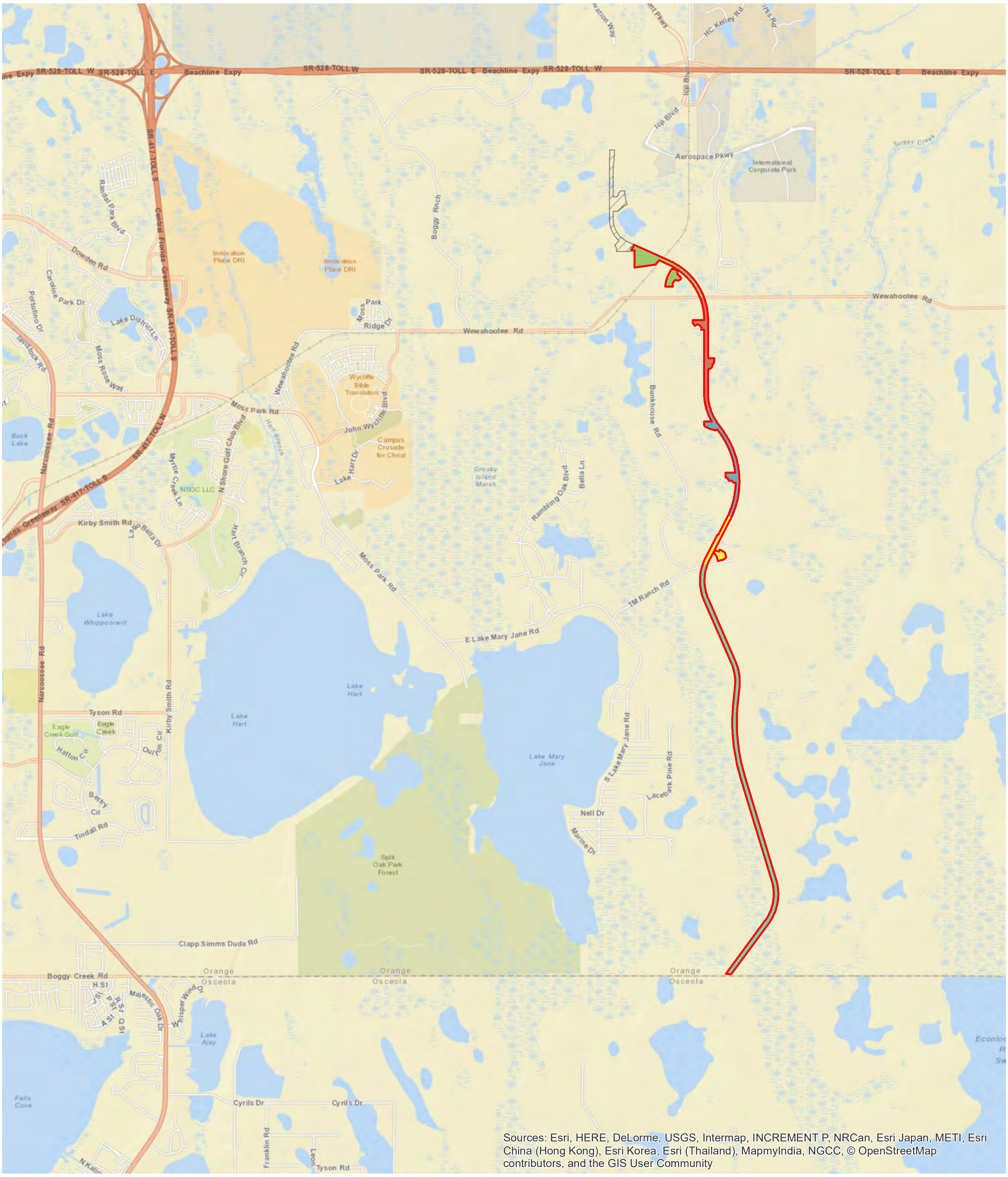


## Legend

Segments 2-4 Limits

**Segment**

- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 4

NOTES
1) This is not a survey.
2) This map is for planning and permitting activity for the above named project and should be used for those purposes only.
3) The base map shown hereon was obtained in digital format from ESRI ArcGIS Online, based on the sources listed above.

## Map A.1
## Vicinity Map


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# Sunbridge Parkway PDS (Segments 2-4)

Sections 6, 7, 18, 19, 30, & 31, Township 23 S, Range 32 E; Section 1, Township 24S, Range 31E
Orange County, Florida

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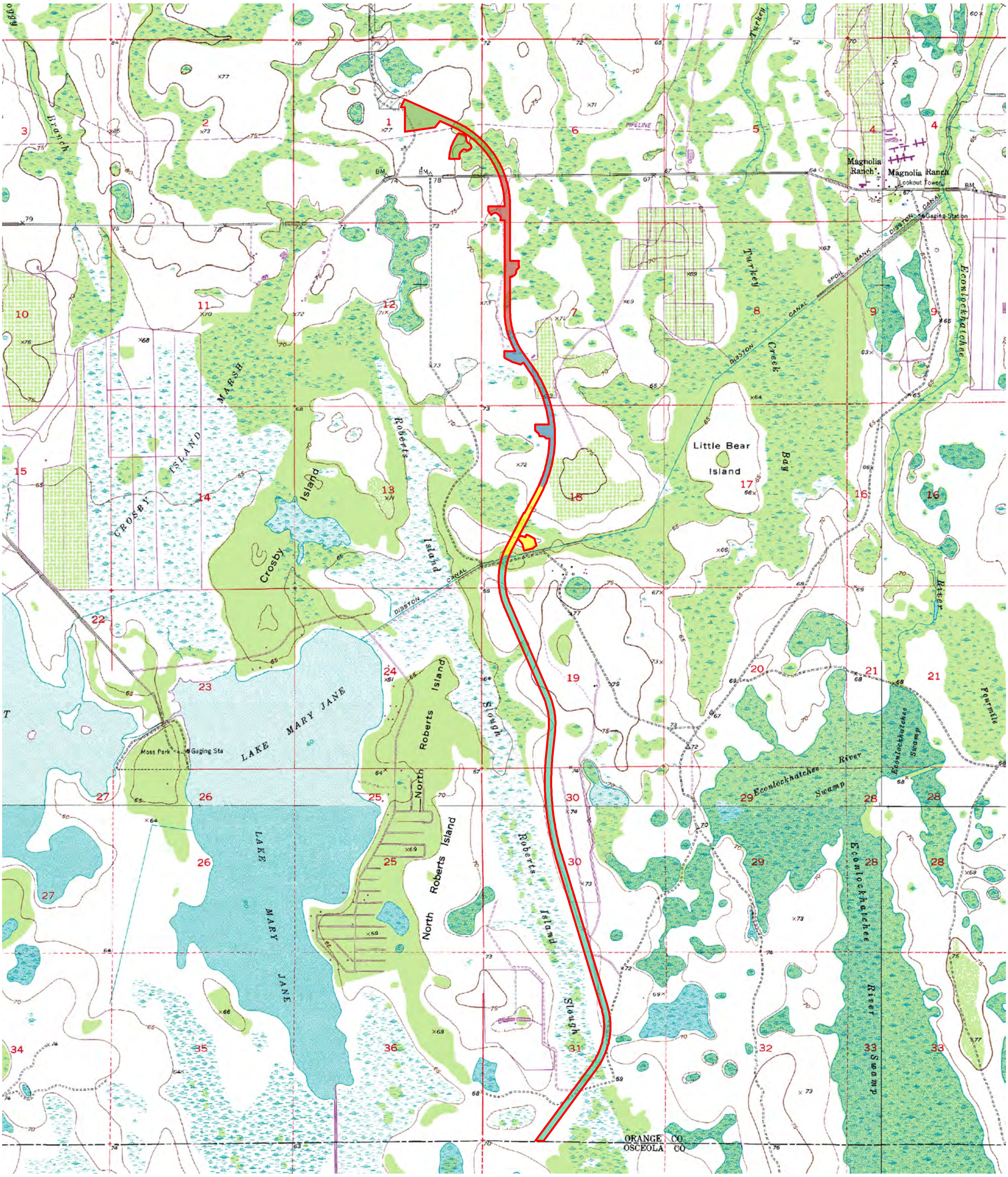


## Legend

Segments 2-4 Limits

**Segment**

- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 4

NOTES
1) This is not a survey.
2) This map is for planning and permitting activity for the above named project and should be used for those purposes only.
3) The USGS quad maps shown hereon were obtained in digital format from USGS, panels Narcoosee, Narcoosee NW, Narcoosee NE, and Narcoosee SE.

# Map A.2
# USGS Quad Map


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# Sunbridge Parkway PDS (Segments 2-4)

Sections 6, 7, 18, 19, 30, & 31, Township 23 S, Range 32 E; Section 1, Township 24S, Range 31E

Orange County, Florida

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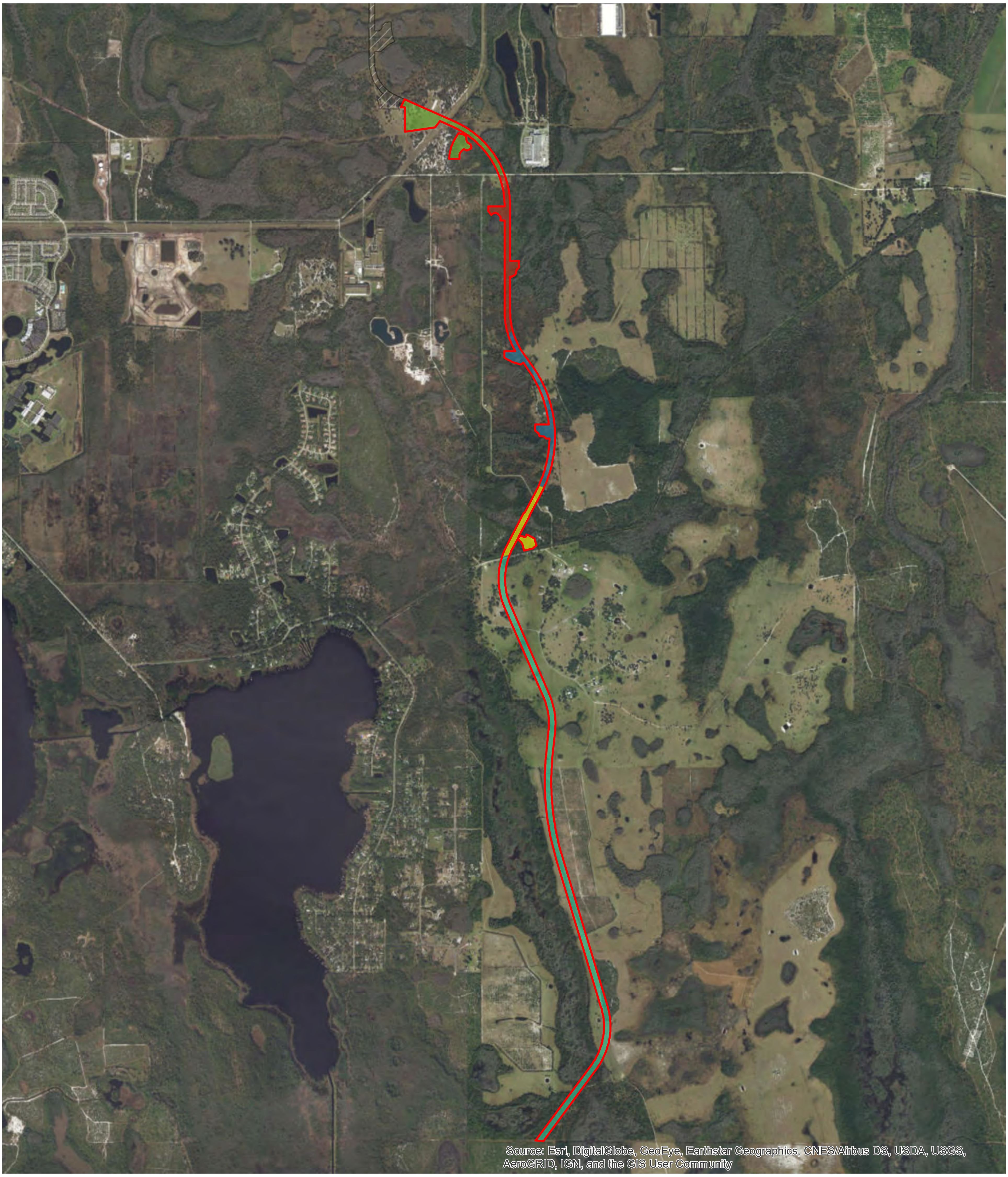


## Legend

Segments 2-4 Limits

**Segment**

- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 4

NOTES

1) This is not a survey.
2) This map is for planning and permitting activity for the above named project and should be used for those purposes only.
3) The Aerial map shown hereon was obtained in digital format from the Orange County Property Appraiser, dated 2016.

# Map A.3
# Aerial Site Map


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# Sunbridge Parkway PDS (Segments 2-4)

Sections 6, 7, 18, 19, 30, & 31, Township 23 S, Range 32 E; Section 1, Township 24S, Range 31E
Orange County, Florida

## Legend

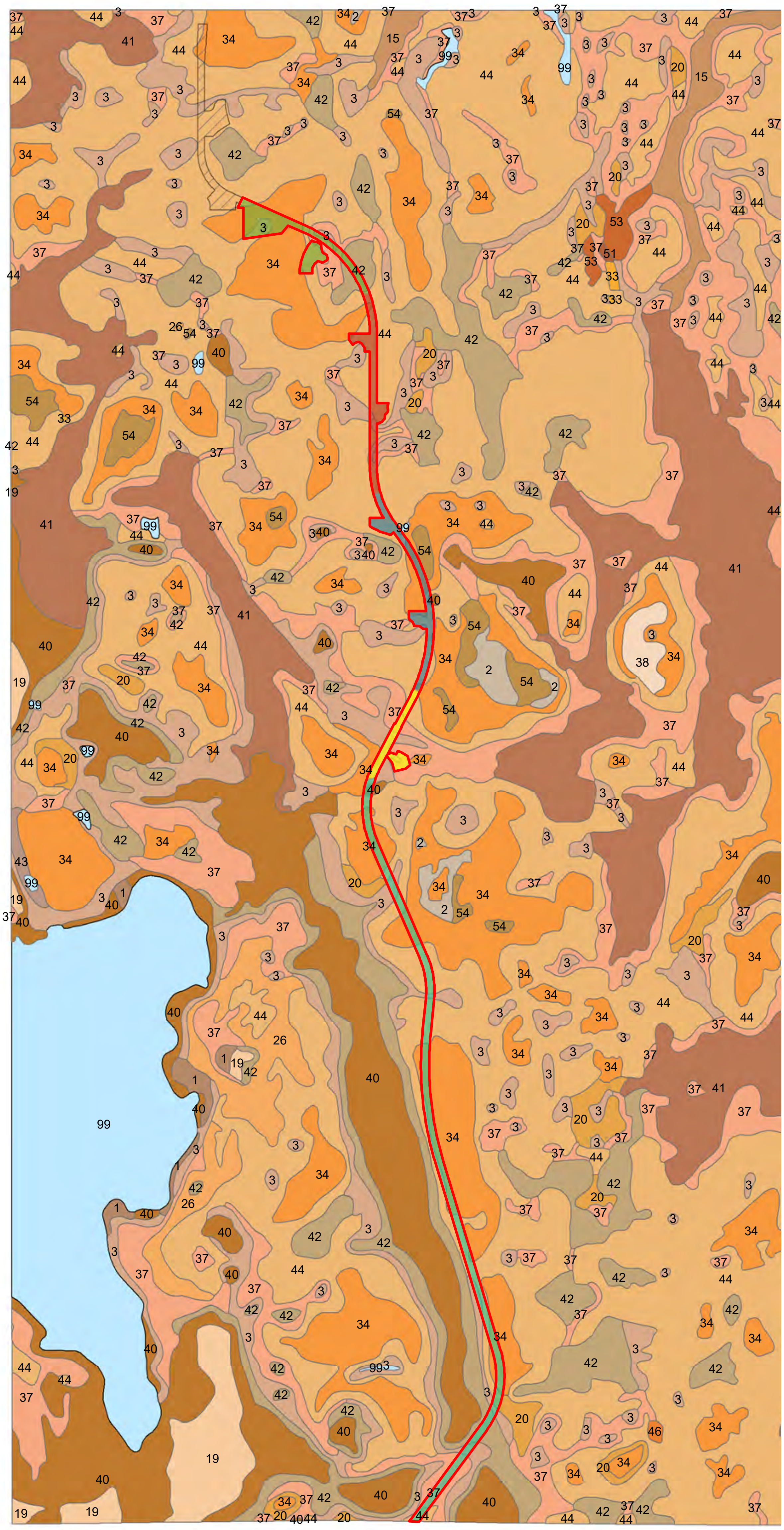
Segments 2-4 Limits

**Segment**

- Segment 1
- Segment 2A
- Segment 2B
- Segment 3A
- Segment 3B
- Segment 4

**NRCS Soil Type**

- 1 - Arents, nearly level
- 15 - Felda fine sand, 0 to 2 percent slopes, frequently flooded
- 19 - Hontoon muck, frequently ponded, 0 to 1 percent slopes
- 2 - Archbold fine sand, 0 to 5 percent slopes
- 20 - Immokalee fine sand
- 26 - Ona fine sand, 0 to 2 percent slopes
- 3 - Basinger fine sand, depressional, 0 to 1 percent slopes
- 33 - Pits
- 34 - Pomello fine sand, 0 to 5 percent slopes
- 37 - St. Johns fine sand
- 38 - St. Lucie fine sand, 0 to 5 percent slopes
- 40 - Samsula muck, frequently ponded, 0 to 1 percent slopes
- 41 - Samsula-Hontoon-Basinger association, depressional
- 42 - Sanibel muck
- 43 - Seffner fine sand, 0 to 2 percent slopes
- 44 - Smyrna-Smyrna, wet, fine sand, 0 to 2 percent slopes
- 46 - Tavares fine sand, 0 to 5 percent slopes
- 51 - Wabasso fine sand, 0 to 2 percent slopes
- 53 - Wauberg fine sand
- 54 - Zolfo fine sand, 0 to 2 percent slopes
- 99 - Water



NOTES
1) This is not a survey.
2) This map is for planning and permitting activity for the above named project and should be used for those purposes only.
3) The Soils data shown hereon was obtained in digital format from the NRCS Soils Survey Geographic Database for Orange County, effective March 2017.

# Map A.4
# NRCS Soils Map

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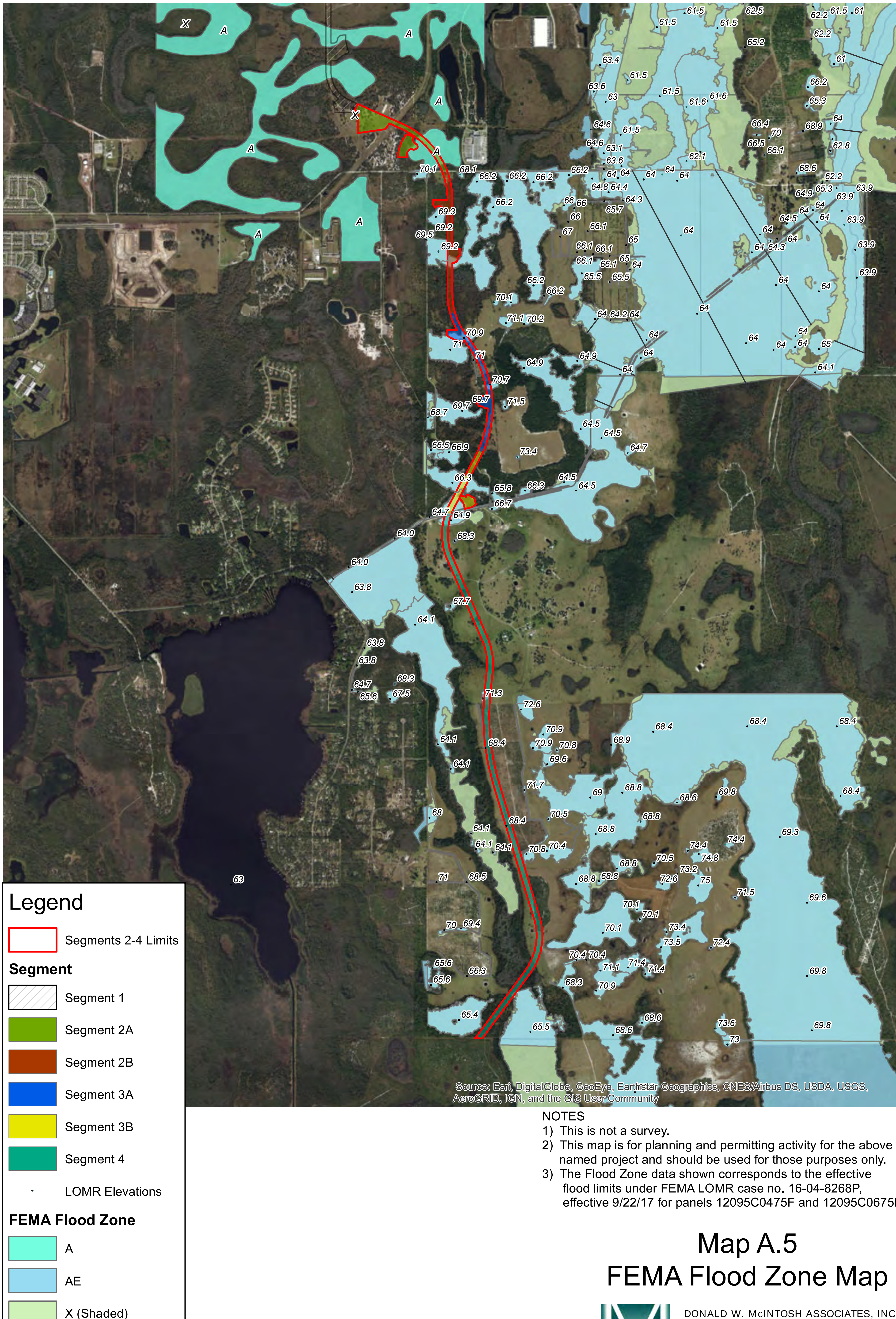
# Sunbridge Parkway

Sections 6, 7, 18, 19, 30, & 31; Township 23 S; Range 31 E.

Orange County, Florida




NOTES

1) This is not a survey.
2) This map is for planning and permitting activity for the above named project and should be used for those purposes only.
3) The Flood Zone data shown corresponds to the effective flood limits under FEMA LOMR case no. 16-04-8268P, effective 9/22/17 for panels 12095C0475F and 12095C0675F.

## Map A.5
## FEMA Flood Zone Map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# APPENDIX B
# PRE-DEVELOPMENT ROUTING ANALYSIS


## LEGEND

| | | |
|---|---|---|
| BASIN | — — | B-084 |
| NODE | ● | N-084 |
| LINK | —— | W-084 |
| BOUNDARY NODE | ◈ | TW-N-075 |

GENERAL NOTES:

1. THE SCALE OF THIS DRAWING MAY HAVE CHANGED DUE TO REPRODUCTION.
2. AREAS LOCATED WITHIN THE LIMITS OF THE SFWMD ARE TO BE PERMITTED BY THE SFWMD AND THE AREAS LOCATED WITHIN THE LIMITS OF THE SJRWMD ARE TO BE PERMITTED BY THE SJRWMD. EACH PERMIT SHALL APPLY ONLY TO THE AREAS LOCATED WITHIN THE JURISDICTIONAL LIMITS OF EACH WATER MANAGEMENT DISTRICT.

DRAWING
POST-DEV BASIN

SHEET
1 OF 2

SUNBRIDGE PARKWAY PDS (SEGMENTS 2-4)
ORANGE COUNTY, FL
PRE-DEVELOPMENT BASIN AND NODAL MAP

**DONALD W. McINTOSH ASSOCIATES, INC.**
ENGINEERS PLANNERS SURVEYORS
2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068

| DRAWN BY: | DESIGNED BY: | CHECKED BY: | SCALE | JOB NUMBER |
|---|---|---|---|---|
| CDH | CDH | JTT | 1"=500' | 15152 |
| DATE: 8/17/17 | DATE: 8/17/17 | DATE: 8/17/17 | | |

| NO. | DATE | DESCRIPTION | CHK. |
|---|---|---|---|
| | | REVISIONS | |

DONALD W. McINTOSH ASSOCIATES, INC.
CERTIFICATE OF AUTHORIZATION NO. 68

DATE:

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LEGEND

| | | |
|---|---|---|
| BASIN | — — | B-084 |
| NODE | ● | N-084 |
| LINK | —— | W-084 |
| BOUNDARY NODE | ◆ | TW-N-075 |

GENERAL NOTES:

1. THE SCALE OF THIS DRAWING MAY HAVE CHANGED DUE TO REPRODUCTION.
2. AREAS LOCATED WITHIN THE LIMITS OF THE SFWMD ARE TO BE PERMITTED BY THE SFWMD AND THE AREAS LOCATED WITHIN THE LIMITS OF THE SJRWMD ARE TO BE PERMITTED BY THE SJRWMD. EACH PERMIT SHALL APPLY ONLY TO THE AREAS LOCATED WITHIN THE JURISDICTIONAL LIMITS OF EACH WATER MANAGEMENT DISTRICT.

DRAWING POST-DEV BASIN

SHEET 2 OF 2

SUNBRIDGE PARKWAY PDS (SEGMENTS 2-4)
ORANGE COUNTY, FL
PRE-DEVELOPMENT BASIN AND NODAL MAP


**DONALD W. McINTOSH ASSOCIATES, INC.**
ENGINEERS PLANNERS SURVEYORS
2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068


| DRAWN BY: CDH | DESIGNED BY: CDH | CHECKED BY: JTT | SCALE | JOB NUMBER |
|---|---|---|---|---|
| DATE: 8/17/17 | DATE: 8/17/17 | DATE: 8/17/17 | 1"=500' | 15152 |

| NO. | DATE | DESCRIPTION | CHK. |
|---|---|---|---|

REVISIONS

DONALD W. McINTOSH ASSOCIATES, INC. CERTIFICATE OF AUTHORIZATION NO. 68

DATE:

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***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-077** |
| **Receiving Node:** | **N-077** |
| **Basin Area:** | **28.71 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 8.55 | | 8.55 | 333 |
| Pasture (Good) | D | 80 | 8.42 | | 8.42 | 674 |
| Wetlands | D | 98 | 1.69 | | 1.69 | 166 |
| Woods-Grass Comb. (Good) | A | 32 | 9.83 | | 9.83 | 315 |
| Woods-Grass Comb. (Good) | D | 79 | 0.22 | | 0.22 | 17 |
| Totals: | | | 28.71 | - | 28.71 | 1505 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **52** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

**Equations**

Sheet Flow: $T_t = \dfrac{0.007(nL)^{0.8}}{(4.8)^{0.5}\,(S^{0.4}/100)}$ where: $L \leq 100$ ft.; S = slope (%); n = Manning's Roughness Coeff.

Shallow Concentrated Flow: $T_t = \dfrac{L}{60V}$ where: Unpaved: $V=16.1345\,(S)^{0.5}$; Paved: $V=20.3282\,(S)^{0.5}$

Channel Flow: $T_t = \dfrac{L}{60V}$ where: V=2.5 fps (assumed)

**Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 0.20 | - | 29.3 |
| Shallow Conc. (Unpaved) | 850 | | 0.65 | 1.30 | 10.9 |

**Time of Conc. = 40 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-078** |
| **Receiving Node:** | **N-078** |
| **Basin Area:** | **37.77 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 4.86 | | 4.86 | 190 |
| Pasture (Good) | D | 80 | 30.76 | | 30.76 | 2461 |
| Woods-Grass Comb. (Good) | A | 32 | 2.15 | | 2.15 | 69 |
| Totals: | | | 37.77 | - | 37.77 | 2719 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **72** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 0.26 | - | 26.4 |
| Shallow Conc. (Unpaved) | 860 | | 0.26 | 0.82 | 17.4 |

**Time of Conc. = 44 Minutes**

| | |
|---|---|
| **Basin:** | **B-080** |
| **Receiving Node:** | **N-080** |
| **Basin Area:** | **61.88 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic | Curve Number | Pervious & | DCIA | Total Area | CN x Area |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 17.12 | | 17.12 | 668 |
| Pasture (Good) | D | 80 | 36.77 | | 36.77 | 2942 |
| Wetlands | D | 98 | 6.87 | | 6.87 | 673 |
| Woods-Grass Comb. (Good) | A | 32 | 1.12 | | 1.12 | 36 |
| Totals: | | | 61.88 | - | 61.88 | 4318 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **70** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 0.20 | - | 29.3 |
| Shallow Conc. (Unpaved) | 850 | | 0.50 | 1.14 | 12.4 |

**Time of Conc. = 42 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-081** |
| **Receiving Node:** | **N-081** |
| **Basin Area:** | **18.08 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | D | 80 | 8.09 | | 8.09 | 647 |
| Wetlands | D | 98 | 9.99 | | 9.99 | 979 |
| Totals: | | | 18.08 | - | 18.08 | 1626 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **90** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.69 | - | 26.8 |
| Shallow Conc. (Unpaved) | 410 | | 0.69 | 1.34 | 5.1 |

**Time of Conc. = 32 Minutes**

| | |
|---|---|
| **Basin:** | **B-082** |
| **Receiving Node:** | **N-082** |
| **Basin Area:** | **17.32 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 4.68 | | 4.68 | 183 |
| Pasture (Good) | D | 80 | 8.74 | | 8.74 | 699 |
| Wetlands | D | 98 | 3.90 | | 3.90 | 382 |
| Totals: | | | 17.32 | - | 17.32 | 1264 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **73** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.20 | - | 44.0 |
| Shallow Conc. (Unpaved) | 515 | | 0.83 | 1.47 | 5.8 |

**Time of Conc. = 50 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-083** |
| **Receiving Node:** | **N-083** |
| **Basin Area:** | **7.88 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 0.76 | | 0.76 | 30 |
| Pasture (Good) | D | 80 | 5.54 | | 5.54 | 443 |
| Wetlands | D | 98 | 1.11 | | 1.11 | 109 |
| Woods (Good) | D | 77 | 0.47 | | 0.47 | 36 |
| Totals: | | | 7.88 | - | 7.88 | 618 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **78** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.37 | - | 34.4 |
| Shallow Conc. (Unpaved) | 580 | | 0.37 | 0.98 | 9.8 |

**Time of Conc. = 44 Minutes**

| | |
|---|---|
| **Basin:** | **B-084** |
| **Receiving Node:** | **N-084** |
| **Basin Area:** | **322.01 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 33.77 | | 33.77 | 2465 |
| Pasture (Good) | A | 39 | 7.26 | | 7.26 | 283 |
| Pasture (Good) | D | 80 | 102.60 | | 102.60 | 8208 |
| Wetlands | D | 98 | 156.09 | | 156.09 | 15297 |
| Woods (Good) | D | 77 | 22.29 | | 22.29 | 1716 |
| Totals: | | | 322.01 | - | 322.01 | 27970 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **87** |
| **Composite DCIA =** | **-** |

**me of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.50 | - | 30.5 |
| Shallow Conc. (Unpaved) | 1090 | | 0.50 | 1.14 | 15.9 |

**Time of Conc. = 46 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-085** |
| **Receiving Node:** | **N-085** |
| **Basin Area:** | **13.10 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 37 | St. Johns Fine Sand | B/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Wetlands | D | 98 | 12.78 | | 12.78 | 1252 |
| Woods (Good) | D | 77 | 0.32 | | 0.32 | 25 |
| Totals: | | | 13.10 | - | 13.10 | 1277 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **97** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.43 | - | 32.4 |
| Shallow Conc. (Unpaved) | 245 | | 0.43 | 1.06 | 3.9 |

**Time of Conc. = 36 Minutes**

| | |
|---|---|
| **Basin:** | **B-086** |
| **Receiving Node:** | **N-086** |
| **Basin Area:** | **2.01 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 0.35 | | 0.35 | 14 |
| Pasture (Good) | D | 80 | 1.66 | | 1.66 | 133 |
| Totals: | | | 2.01 | - | 2.01 | 146 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **73** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 0.50 | - | 13.9 |
| Shallow Conc. (Unpaved) | 200 | | 0.50 | 1.14 | 2.9 |

**Time of Conc. = 17 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-087** |
| **Receiving Node:** | **N-087** |
| **Basin Area:** | **11.44 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 0.58 | | 0.58 | 23 |
| Pasture (Good) | D | 80 | 7.05 | | 7.05 | 564 |
| Wetlands | D | 98 | 3.81 | | 3.81 | 373 |
| Totals: | | | 11.44 | - | 11.44 | 960 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **84** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 0.20 | - | 20.1 |
| Shallow Conc. (Unpaved) | 350 | | 0.66 | 1.31 | 4.5 |

**Time of Conc. = 25 Minutes**

| | |
|---|---|
| **Basin:** | **B-088** |
| **Receiving Node:** | **N-088** |
| **Basin Area:** | **83.11 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | D | 80 | 40.64 | | 40.64 | 3251 |
| Wetlands | D | 98 | 41.67 | | 41.67 | 4084 |
| Woods (Good) | D | 77 | 0.80 | | 0.80 | 62 |
| Totals: | | | 83.11 | - | 83.11 | 7396 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **89** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 0.28 | - | 17.6 |
| Shallow Conc. (Unpaved) | 800 | | 0.28 | 0.85 | 15.6 |

**Time of Conc. = 33 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-089** |
| **Receiving Node:** | **N-089** |
| **Basin Area:** | **14.77 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | D | 80 | 14.77 | | 14.77 | 1182 |
| Totals: | | | 14.77 | - | 14.77 | 1182 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **80** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 0.49 | - | 14.0 |
| Shallow Conc. (Unpaved) | 305 | | 0.49 | 1.13 | 4.5 |

**Time of Conc. = 19 Minutes**

| | |
|---|---|
| **Basin:** | **B-134** |
| **Receiving Node:** | **N-134** |
| **Basin Area:** | **47.30 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 40 | Samsula Muck | A/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 1.62 | | 1.62 | 49 |
| Brush (Good) | D | 73 | 21.10 | | 21.10 | 1540 |
| Pasture (Good) | A | 39 | 8.32 | | 8.32 | 324 |
| Pasture (Good) | D | 80 | 2.54 | | 2.54 | 203 |
| Wetlands | D | 98 | 13.72 | | 13.72 | 1345 |
| Totals: | | | 47.30 | - | 47.30 | 3461 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **73** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 0.19 | - | 29.9 |
| Shallow Conc. (Unpaved) | 930 | | 0.19 | 0.70 | 22.0 |

**Time of Conc. = 52 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-135** |
| **Receiving Node:** | **N-135** |
| **Basin Area:** | **6.15 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |
| 54 | Zolfo Fine Sand | A |
| 99 | Water | N/A |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 0.47 | | 0.47 | 14 |
| Brush (Good) | D | 73 | 0.56 | | 0.56 | 41 |
| Pasture (Good) | A | 39 | 2.72 | | 2.72 | 106 |
| Pasture (Good) | D | 80 | 1.39 | | 1.39 | 111 |
| Water Surface | N/A | 98 | | 1.01 | 1.01 | 0 |
| Totals: | | | 5.14 | 1.01 | 6.15 | 272 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **53** |
| **Composite DCIA =** | **16%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 0.27 | - | 17.8 |
| Shallow Conc. (Unpaved) | 445 | | 0.27 | 0.84 | 8.8 |

**Time of Conc. = 27 Minutes**

| | |
|---|---|
| **Basin:** | **B-136** |
| **Receiving Node:** | **N-136** |
| **Basin Area:** | **97.90 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 3.34 | | 3.34 | 100 |
| Brush (Good) | D | 73 | 43.71 | | 43.71 | 3191 |
| Pasture (Good) | A | 39 | 25.71 | | 25.71 | 1003 |
| Pasture (Good) | D | 80 | 8.06 | | 8.06 | 645 |
| Wetlands | D | 98 | 15.82 | | 15.82 | 1550 |
| Woods (Good) | A | 30 | 1.26 | | 1.26 | 38 |
| Totals: | | | 97.90 | - | 97.90 | 6527 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **67** |
| **Composite DCIA =** | **-** |

**Time of Concentration (T ) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 0.20 | - | 29.3 |
| Shallow Conc. (Unpaved) | 1360 | | 0.20 | 0.72 | 31.4 |

**Time of Conc. = 61 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-137** |
| **Receiving Node:** | **N-137** |
| **Basin Area:** | **7.01 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 2.39 | | 2.39 | 72 |
| Brush (Good) | D | 73 | 2.44 | | 2.44 | 178 |
| Pasture (Good) | A | 39 | 0.98 | | 0.98 | 38 |
| Pasture (Good) | D | 80 | 0.05 | | 0.05 | 4 |
| Wetlands | D | 98 | 1.15 | | 1.15 | 113 |
| Totals: | | | 7.01 | - | 7.01 | 405 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **58** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.16 | - | 48.2 |
| Shallow Conc. (Unpaved) | 205 | | 0.16 | 0.65 | 5.3 |

**Time of Conc. = 53 Minutes**

| | |
|---|---|
| **Basin:** | **B-138** |
| **Receiving Node:** | **N-138** |
| **Basin Area:** | **9.35 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 2 | Archbold Fine Sand, 0 to 5% slopes | A |
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |
| 54 | Zolfo Fine Sand | A |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 0.96 | | 0.96 | 29 |
| Brush (Good) | D | 73 | 1.79 | | 1.79 | 131 |
| Pasture (Good) | A | 39 | 5.84 | | 5.84 | 228 |
| Pasture (Good) | D | 80 | 0.15 | | 0.15 | 12 |
| Wetlands | D | 98 | 0.53 | | 0.53 | 52 |
| Woods (Good) | A | 30 | 0.08 | | 0.08 | 2 |
| Totals: | | | 9.35 | - | 9.35 | 454 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **49** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 0.61 | - | 18.7 |
| Shallow Conc. (Unpaved) | 560 | | 0.61 | 1.26 | 7.4 |

**Time of Conc. = 26 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-139** |
| **Receiving Node:** | **N-139** |
| **Basin Area:** | **168.09 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 33.28 | | 33.28 | 998 |
| Brush (Good) | D | 73 | 36.09 | | 36.09 | 2635 |
| Pasture (Good) | A | 39 | 19.00 | | 19.00 | 741 |
| Pasture (Good) | D | 80 | 7.76 | | 7.76 | 621 |
| Wetlands | D | 98 | 65.09 | | 65.09 | 6379 |
| Woods (Good) | A | 30 | 0.88 | | 0.88 | 26 |
| Woods-Grass Comb. (Good) | D | 79 | 5.99 | | 5.99 | 473 |
| Totals: | | | 168.09 | - | 168.09 | 11873 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **71** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.20 | - | 44.0 |
| Shallow Conc. (Unpaved) | 1475 | | 0.73 | 1.38 | 17.8 |

**Time of Conc. = 62 Minutes**

| | |
|---|---|
| **Basin:** | **B-153** |
| **Receiving Node:** | **N-153** |
| **Basin Area:** | **33.48 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 8.88 | | 8.88 | 648 |
| Wetlands | D | 98 | 13.41 | | 13.41 | 1314 |
| Woods (Good) | D | 77 | 1.45 | | 1.45 | 112 |
| Woods-Grass Comb. (Good) | A | 32 | 0.33 | | 0.33 | 11 |
| Woods-Grass Comb. (Good) | D | 79 | 9.41 | | 9.41 | 743 |
| Totals: | | | 33.48 | - | 33.48 | 2828 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **84** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.32 | - | 36.5 |
| Shallow Conc. (Unpaved) | 1010 | | 0.32 | 0.91 | 18.4 |

**Time of Conc. = 55 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-154** |
| **Receiving Node:** | **N-154** |
| **Basin Area:** | **32.49 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 12.85 | | 12.85 | 938 |
| Pasture (Good) | A | 39 | 2.60 | | 2.60 | 101 |
| Pasture (Good) | D | 80 | 6.31 | | 6.31 | 505 |
| Wetlands | D | 98 | 10.32 | | 10.32 | 1011 |
| Woods (Good) | A | 30 | 0.41 | | 0.41 | 12 |
| Totals: | | | 32.49 | - | 32.49 | 2568 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **79** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 0.55 | - | 13.4 |
| Shallow Conc. (Unpaved) | 1310 | | 0.55 | 1.20 | 18.2 |

**Time of Conc. = 32 Minutes**

| | |
|---|---|
| **Basin:** | **B-155** |
| **Receiving Node:** | **N-155** |
| **Basin Area:** | **72.00 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 1.83 | | 1.83 | 55 |
| Brush (Good) | D | 73 | 12.92 | | 12.92 | 943 |
| Pasture (Good) | A | 39 | 0.81 | | 0.81 | 32 |
| Pasture (Good) | D | 80 | 2.40 | | 2.40 | 192 |
| Wetlands | D | 98 | 24.81 | | 24.81 | 2431 |
| Woods (Good) | A | 30 | 10.70 | | 10.70 | 321 |
| Woods (Good) | D | 77 | 9.64 | | 9.64 | 742 |
| Woods-Grass Comb. (Good) | A | 32 | 4.29 | | 4.29 | 137 |
| Woods-Grass Comb. (Good) | D | 79 | 4.60 | | 4.60 | 363 |
| Totals: | | | 72.00 | - | 72.00 | 5217 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **72** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.20 | - | 44.0 |
| Shallow Conc. (Unpaved) | 1005 | | 0.73 | 1.38 | 12.2 |

**Time of Conc. = 56 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-156** |
| **Receiving Node:** | **N-156** |
| **Basin Area:** | **24.89 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Wetlands | D | 98 | 3.49 | | 3.49 | 342 |
| Woods (Good) | A | 30 | 8.53 | | 8.53 | 256 |
| Woods (Good) | D | 77 | 9.65 | | 9.65 | 743 |
| Woods-Grass Comb. (Good) | A | 32 | 3.12 | | 3.12 | 100 |
| Woods-Grass Comb. (Good) | D | 79 | 0.10 | | 0.10 | 8 |
| Totals: | | | 24.89 | - | 24.89 | 1449 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **58** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.36 | - | 34.8 |
| Shallow Conc. (Unpaved) | 600 | | 0.36 | 0.97 | 10.3 |
| Shallow Conc. (Unpaved) | 255 | | 1.18 | 1.75 | 2.4 |

**Time of Conc. = 48 Minutes**

| | |
|---|---|
| **Basin:** | **RR-3** |
| **Receiving Node:** | **RR-3** |
| **Basin Area:** | **19.71 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 13.97 | 0.00 | 13.97 | 545 |
| Pasture (Good) | D | 80 | 4.92 | 0.00 | 4.92 | 394 |
| Woods (Good) | A | 30 | 0.82 | 0.00 | 0.82 | 25 |
| Totals: | | | 19.71 | - | 19.71 | 963 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **49** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 0.33 | - | 23.9 |
| Shallow Conc. (Unpaved) | 200 | - | 0.33 | 0.93 | 3.6 |
| Shallow Conc. (Unpaved) | 340 | - | 0.44 | 1.07 | 5.3 |
| Channel/Pipe Flow | 615 | - | 0.16 | 2.50 | 4.1 |

**Time of Conc. = 37 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **W11-1** |
| **Receiving Node:** | **W11-1** |
| **Basin Area:** | **19.44 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 0.82 | 0.00 | 0.82 | 25 |
| Brush (Good) | D | 73 | 11.75 | 0.00 | 11.75 | 858 |
| Wetlands | D | 98 | 0.00 | 5.28 | 5.28 | 0 |
| Woods (Good) | D | 77 | 1.59 | 0.00 | 1.59 | 122 |
| Totals: | | | 14.16 | 5.28 | 19.44 | 1005 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **71** |
| **Composite DCIA =** | **27%** |

**Time of Concentration (Tc) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.50 | - | 30.5 |
| Shallow Conc. (Unpaved) | 200 | - | 0.50 | 1.14 | 2.9 |
| Shallow Conc. (Unpaved) | 800 | - | 0.44 | 1.07 | 12.5 |

**Time of Conc. = 46 Minutes**

| | |
|---|---|
| **Basin Name:** | **W11-7** |
| **Receiving Node:** | **W11-7** |
| **Basin Area:** | **211.77 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 29.49 | 0.00 | 29.49 | 885 |
| Brush (Good) | D | 73 | 74.45 | 0.00 | 74.45 | 5435 |
| Pasture (Good) | A | 39 | 7.90 | 0.00 | 7.90 | 308 |
| R.O.W. (Paved, Open Ditch) | A | 83 | 0.05 | 0.00 | 0.05 | 4 |
| R.O.W. (Paved, Open Ditch) | D | 93 | 0.96 | 0.00 | 0.96 | 89 |
| Wetlands | D | 98 | 0.00 | 49.14 | 49.14 | 0 |
| Woods (Good) | A | 30 | 8.15 | 0.00 | 8.15 | 245 |
| Woods (Good) | D | 77 | 41.63 | 0.00 | 41.63 | 3206 |
| Totals: | | | 162.63 | 49.14 | 211.77 | 10171 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **63** |
| **Composite DCIA =** | **23%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.17 | - | 47.4 |
| Shallow Conc. (Unpaved) | 3220 | - | 0.20 | 0.72 | 74.6 |

**Time of Conc. = 122 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **W12** |
| **Receiving Node:** | **W12** |
| **Basin Area:** | **102.52 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 2.96 | 0.00 | 2.96 | 89 |
| Brush (Good) | D | 73 | 41.38 | 0.00 | 41.38 | 3021 |
| R.O.W. (Paved, Open Ditch) | A | 83 | 1.01 | 0.00 | 1.01 | 84 |
| R.O.W. (Paved, Open Ditch) | D | 93 | 3.83 | 0.00 | 3.83 | 356 |
| Wetlands | D | 98 | 0.00 | 38.46 | 38.46 | 0 |
| Woods (Good) | A | 30 | 2.26 | 0.00 | 2.26 | 68 |
| Woods (Good) | D | 77 | 12.62 | 0.00 | 12.62 | 972 |
| Totals: | | | 64.06 | 38.46 | 102.52 | 4589 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **72** |
| **Composite DCIA =** | **38%** |

**Time of Concentration (Tc) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.10 | - | 58.1 |
| Shallow Conc. (Unpaved) | 484 | - | 0.62 | 1.27 | 6.3 |

**Time of Conc. = 64 Minutes**

| | |
|---|---|
| **Basin:** | **W13** |
| **Receiving Node:** | **W13** |
| **Basin Area:** | **172.47 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 41 | Samsula-Hontoon-Basinger, depressional | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 28.34 | 0.00 | 28.34 | 850 |
| Brush (Good) | D | 73 | 87.44 | 0.00 | 87.44 | 6383 |
| Wetlands | D | 98 | 0.00 | 45.59 | 45.59 | 0 |
| Woods (Good) | D | 77 | 11.10 | 0.00 | 11.10 | 855 |
| Totals: | | | 126.88 | 45.59 | 172.47 | 8088 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **64** |
| **Composite DCIA =** | **26%** |

**Time of Concentration (Tc) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.17 | - | 47.4 |
| Shallow Conc. (Unpaved) | 200 | - | 0.17 | 0.67 | 5.0 |
| Shallow Conc. (Unpaved) | 650 | - | 0.77 | 1.42 | 7.7 |

**Time of Conc. = 60 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **W14** |
| **Receiving Node:** | **W14** |
| **Basin Area:** | **15.80 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 9.44 | 0.00 | 9.44 | 689 |
| Wetlands | D | 98 | 0.00 | 4.22 | 4.22 | 0 |
| Woods (Good) | D | 77 | 2.14 | 0.00 | 2.14 | 165 |
| Totals: | | | 11.58 | 4.22 | 15.80 | 854 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **74** |
| **Composite DCIA =** | **27%** |

**Time of Concentration (Tc) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.18 | - | 46.1 |
| Shallow Conc. (Unpaved) | 180 | - | 0.18 | 0.68 | 4.4 |

**Time of Conc. = 50 Minutes**

| | |
|---|---|
| **Basin:** | **W17** |
| **Receiving Node:** | **W17** |
| **Basin Area:** | **52.51 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 2.47 | 0.00 | 2.47 | 96 |
| Pasture (Good) | D | 80 | 6.71 | 0.00 | 6.71 | 537 |
| Wetlands | D | 98 | 0.00 | 10.39 | 10.39 | 0 |
| Woods (Good) | D | 77 | 32.94 | 0.00 | 32.94 | 2536 |
| Totals: | | | 42.12 | 10.39 | 52.51 | 3170 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **75** |
| **Composite DCIA =** | **20%** |

**Time of Concentration (Tc) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.33 | - | 35.9 |
| Shallow Conc. (Unpaved) | 200 | - | 0.33 | 0.93 | 3.6 |
| Shallow Conc. (Unpaved) | 815 | - | 0.43 | 1.06 | 12.8 |

**Time of Conc. = 52 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **W18** |
| **Receiving Node:** | **W18** |
| **Basin Area:** | **66.96 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 32.46 | 0.00 | 32.46 | 2370 |
| Wetlands | D | 98 | 0.00 | 10.92 | 10.92 | 0 |
| Woods (Good) | A | 30 | 1.10 | 0.00 | 1.10 | 33 |
| Woods (Good) | D | 77 | 22.48 | 0.00 | 22.48 | 1731 |
| Totals: | | | 56.04 | 10.92 | 66.96 | 4134 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **74** |
| **Composite DCIA =** | **16%** |

**Time of Concentration (Tc) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.17 | - | 47.4 |
| Shallow Conc. (Unpaved) | 200 | - | 0.17 | 0.67 | 5.0 |
| Shallow Conc. (Unpaved) | 250 | - | 0.40 | 1.02 | 4.1 |

**Time of Conc. = 56 Minutes**

| | |
|---|---|
| **Basin:** | **W20** |
| **Receiving Node:** | **W20** |
| **Basin Area:** | **77.79 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 1.03 | 0.00 | 1.03 | 75 |
| Pasture (Good) | A | 39 | 9.44 | 0.00 | 9.44 | 368 |
| Pasture (Good) | D | 80 | 1.28 | 0.00 | 1.28 | 102 |
| Wetlands | D | 98 | 0.00 | 17.27 | 17.27 | 0 |
| Woods (Good) | A | 30 | 0.86 | 0.00 | 0.86 | 26 |
| Woods (Good) | D | 77 | 47.91 | 0.00 | 47.91 | 3689 |
| Totals: | | | 60.52 | 17.27 | 77.79 | 4261 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **70** |
| **Composite DCIA =** | **22%** |

**Time of Concentration (Tc) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.17 | - | 47.4 |
| Shallow Conc. (Unpaved) | 200 | - | 0.17 | 0.67 | 5.0 |
| Shallow Conc. (Unpaved) | 815 | - | 0.31 | 0.89 | 15.2 |

**Time of Conc. = 68 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **W21** |
| **Receiving Node:** | **W21** |
| **Basin Area:** | **10.42 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 0.14 | 0.00 | 0.14 | 5 |
| Pasture (Good) | D | 80 | 0.31 | 0.00 | 0.31 | 25 |
| Wetlands | D | 98 | 0.00 | 4.40 | 4.40 | 0 |
| Woods (Good) | A | 30 | 0.01 | 0.00 | 0.01 | 0 |
| Woods (Good) | D | 77 | 5.56 | 0.00 | 5.56 | 428 |
| Totals: | | | 6.02 | 4.40 | 10.42 | 459 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **76** |
| **Composite DCIA =** | **42%** |

**Time of Concentration (Tc) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.50 | - | 30.5 |
| Shallow Conc. (Unpaved) | 200 | - | 0.50 | 1.14 | 2.9 |
| Shallow Conc. (Unpaved) | 265 | - | 0.57 | 1.21 | 3.6 |

**Time of Conc. = 37 Minutes**

| | |
|---|---|
| **Basin:** | **W24** |
| **Receiving Node:** | **W24** |
| **Basin Area:** | **67.65 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 13.40 | 0.00 | 13.40 | 978 |
| Pasture (Good) | A | 39 | 6.68 | 0.00 | 6.68 | 261 |
| Pasture (Good) | D | 80 | 4.96 | 0.00 | 4.96 | 397 |
| Wetlands | D | 98 | 0.00 | 21.13 | 21.13 | 0 |
| Woods (Good) | A | 30 | 1.01 | 0.00 | 1.01 | 30 |
| Woods (Good) | D | 77 | 20.47 | 0.00 | 20.47 | 1576 |
| Totals: | | | 46.52 | 21.13 | 67.65 | 3242 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **70** |
| **Composite DCIA =** | **31%** |

**Time of Concentration (Tc) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.33 | - | 35.9 |
| Shallow Conc. (Unpaved) | 200 | - | 0.33 | 0.93 | 3.6 |
| Shallow Conc. (Unpaved) | 990 | - | 0.40 | 1.03 | 16.1 |

**Time of Conc. = 56 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Pre-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **W24A** |
| **Receiving Node:** | **W24A** |
| **Basin Area:** | **127.21 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 41 | Samsula-Hontoon-Basinger, depressional | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 3.40 | 0.00 | 3.40 | 248 |
| Pasture (Good) | A | 39 | 0.10 | 0.00 | 0.10 | 4 |
| Wetlands | D | 98 | 0.00 | 24.42 | 24.42 | 0 |
| Woods (Good) | A | 30 | 10.45 | 0.00 | 10.45 | 314 |
| Woods (Good) | D | 77 | 88.84 | 0.00 | 88.84 | 6841 |
| Totals: | | | 102.79 | 24.42 | 127.21 | 7406 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **72** |
| **Composite DCIA =** | **19%** |

**Time of Concentration (Tc) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.16 | - | 48.2 |
| Shallow Conc. (Unpaved) | 530 | - | 0.16 | 0.65 | 13.7 |
| Shallow Conc. (Unpaved) | 800 | - | 0.50 | 1.14 | 11.7 |

**Time of Conc. = 74 Minutes**

| | |
|---|---|
| **Basin:** | **W25** |
| **Receiving Node:** | **W25** |
| **Basin Area:** | **117.88 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 1.56 | 0.00 | 1.56 | 47 |
| Brush (Good) | D | 73 | 6.74 | 0.00 | 6.74 | 492 |
| Open Space (Good) | A | 39 | 0.03 | 0.00 | 0.03 | 1 |
| Open Space (Good) | D | 80 | 3.17 | 0.00 | 3.17 | 254 |
| Pasture (Good) | A | 39 | 15.52 | 0.00 | 15.52 | 605 |
| Pasture (Good) | D | 80 | 3.31 | 0.00 | 3.31 | 265 |
| Wetlands | D | 98 | 0.00 | 43.85 | 43.85 | 0 |
| Woods (Good) | A | 30 | 0.55 | 0.00 | 0.55 | 17 |
| Woods (Good) | D | 77 | 22.32 | 0.00 | 22.32 | 1719 |
| Woods-Grass Comb. (Good) | A | 32 | 19.80 | 0.00 | 19.80 | 634 |
| Woods-Grass Comb. (Good) | D | 79 | 1.03 | 0.00 | 1.03 | 81 |
| Totals: | | | 74.03 | 43.85 | 117.88 | 4114 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **56** |
| **Composite DCIA =** | **37%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.33 | - | 35.9 |
| Shallow Conc. (Unpaved) | 200 | - | 0.33 | 0.93 | 3.6 |
| Shallow Conc. (Unpaved) | 810 | - | 0.74 | 1.39 | 9.7 |

**Time of Conc. = 49 Minutes**

## Manual Basin: B-077

| | |
|---|---|
| Scenario: | Icpr3 |
| Node: | N-077 |
| Hydrograph Method: | NRCS Unit Hydrograph |
| Infiltration Method: | Curve Number |
| Time of Concentration: | 40.00 min |
| Max Allowable Q: | 9999.00 cfs |
| Time Shift: | 0.00 hr |
| Unit Hydrograph: | Uh256 |
| Peaking Factor: | 256 |

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 28.72 | B-077 | B-077 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-078

| | |
|---|---|
| Scenario: | Icpr3 |
| Node: | N-078 |
| Hydrograph Method: | NRCS Unit Hydrograph |
| Infiltration Method: | Curve Number |
| Time of Concentration: | 44.00 min |
| Max Allowable Q: | 9999.00 cfs |
| Time Shift: | 0.00 hr |
| Unit Hydrograph: | Uh256 |
| Peaking Factor: | 256 |

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 37.76 | B-078 | B-078 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-080

| | |
|---|---|
| Scenario: | Icpr3 |
| Node: | N-080 |
| Hydrograph Method: | NRCS Unit Hydrograph |
| Infiltration Method: | Curve Number |
| Time of Concentration: | 42.00 min |
| Max Allowable Q: | 9999.00 cfs |
| Time Shift: | 0.00 hr |
| Unit Hydrograph: | Uh256 |
| Peaking Factor: | 256 |

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 61.88 | B-080 | B-080 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-081

| | |
|---|---|
| Scenario: | Icpr3 |
| Node: | N-081 |

Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 32.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 18.09 | B-081 | B-081 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

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## Manual Basin: B-082

Scenario: Icpr3
Node: N-082
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 50.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 17.32 | B-082 | B-082 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

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## Manual Basin: B-083

Scenario: Icpr3
Node: N-083
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 44.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 7.88 | B-083 | B-083 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

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## Manual Basin: B-084

Scenario: Icpr3
Node: N-084
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 46.00 min

Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 322.00 | B-084 | B-084 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

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## Manual Basin: B-085

Scenario: Icpr3
Node: N-085
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 36.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 13.10 | B-085 | B-085 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

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## Manual Basin: B-086

Scenario: Icpr3
Node: N-086
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 17.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 2.01 | B-086 | B-086 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

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## Manual Basin: B-087

Scenario: Icpr3
Node: N-087
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 25.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256

Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 11.44 | B-087 | B-087 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-088

Scenario: Icpr3
Node: N-088
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 33.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 83.10 | B-088 | B-088 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-089

Scenario: Icpr3
Node: N-089
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 19.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 14.77 | B-089 | B-089 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-133

Scenario: Icpr3
Node: N-133
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 54.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 87.17 | B-133 | B-133 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-134

Scenario: Icpr3
Node: N-134
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 52.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 47.29 | B-134 | B-134 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-135

Scenario: Icpr3
Node: N-135
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 27.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 6.14 | B-135 | B-135 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-136

Scenario: Icpr3
Node: N-136
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 61.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 97.90 | B-136 | B-136 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-137

Scenario: Icpr3
Node: N-137
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 53.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 7.02 | B-137 | B-137 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-138

Scenario: Icpr3
Node: N-138
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 26.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 9.35 | B-138 | B-138 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-139

Scenario: Icpr3
Node: N-139
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 62.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 168.09 | B-139 | B-139 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-153

Scenario: Icpr3
Node: N-153

Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 55.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 33.48 | B-153 | B-153 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

Manual Basin: B-154

Scenario: Icpr3
Node: N-154
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 32.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 32.49 | B-154 | B-154 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

Manual Basin: B-155

Scenario: Icpr3
Node: N-155
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 56.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 72.01 | B-155 | B-155 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

Manual Basin: B-156

Scenario: Icpr3
Node: N-156
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 48.00 min

Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 24.89 | B-156 | B-156 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

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## Manual Basin: RR-3

Scenario: Icpr3
Node: RR-3
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 37.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 19.71 | RR-3 | RR-3 | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

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## Manual Basin: W11-1

Scenario: Icpr3
Node: W11-1
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 46.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 19.44 | W11-1 | W11-1 | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

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## Manual Basin: W11-7

Scenario: Icpr3
Node: TW-W11-7
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 122.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256

Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 202.23 | W11-7 | W11-7 | |

Comment:

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## Manual Basin: W12

Scenario: Icpr3
Node: W12
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 64.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 91.21 | W12 | W12 | |

Comment: Taken from permitted calculations for "Innovation Way Phase II" (SFWMD app. no. 151202-17)

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## Manual Basin: W13

Scenario: Icpr3
Node: W13
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 60.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 160.00 | W13 | W13 | |

Comment: Taken from permitted calculations for "Innovation Way Phase II" (SFWMD app. no. 151202-17)

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## Manual Basin: W14

Scenario: Icpr3
Node: W14
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 60.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 15.80 | W14 | W14 | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

Manual Basin: W17

Scenario: Icpr3
Node: W17
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 52.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 52.51 | W17 | W17 | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

Manual Basin: W18

Scenario: Icpr3
Node: W18
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 56.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 66.96 | W18 | W18 | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

Manual Basin: W20

Scenario: Icpr3
Node: W20
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 68.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 77.79 | W20 | W20 | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

Manual Basin: W21

| | |
|---|---|
| Scenario: | Icpr3 |
| Node: | W21 |
| Hydrograph Method: | NRCS Unit Hydrograph |
| Infiltration Method: | Curve Number |
| Time of Concentration: | 37.00 min |
| Max Allowable Q: | 9999.00 cfs |
| Time Shift: | 0.00 hr |
| Unit Hydrograph: | UH256 |
| Peaking Factor: | 256 |

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 10.42 | W21 | W21 | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

Manual Basin: W24

| | |
|---|---|
| Scenario: | Icpr3 |
| Node: | W24 |
| Hydrograph Method: | NRCS Unit Hydrograph |
| Infiltration Method: | Curve Number |
| Time of Concentration: | 56.00 min |
| Max Allowable Q: | 9999.00 cfs |
| Time Shift: | 0.00 hr |
| Unit Hydrograph: | UH256 |
| Peaking Factor: | 256 |

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 67.65 | W24 | W24 | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

Manual Basin: W24A

| | |
|---|---|
| Scenario: | Icpr3 |
| Node: | W24A |
| Hydrograph Method: | NRCS Unit Hydrograph |
| Infiltration Method: | Curve Number |
| Time of Concentration: | 74.00 min |
| Max Allowable Q: | 9999.00 cfs |
| Time Shift: | 0.00 hr |
| Unit Hydrograph: | UH256 |
| Peaking Factor: | 256 |

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 127.21 | W24A | W24A | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

Manual Basin: W25

| | |
|---|---|
| Scenario: | Icpr3 |
| Node: | W25 |

Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 49.00 min
Max Allowable Q: 9999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 117.88 | W25 | W25 | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

## Node: N-077

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 67.69 ft
Warning Stage: 71.28 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 67.64 | 0.00 | 0 |
| 68.78 | 0.10 | 4356 |
| 69.28 | 0.66 | 28750 |
| 69.78 | 1.20 | 52272 |
| 70.28 | 2.55 | 111078 |
| 70.78 | 3.45 | 150282 |
| 71.28 | 4.80 | 209088 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-078

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 69.65 ft
Warning Stage: 71.11 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 69.11 | 0.00 | 0 |
| 69.61 | 0.34 | 14810 |
| 70.11 | 3.99 | 173804 |
| 70.61 | 7.96 | 346738 |
| 71.11 | 15.24 | 663854 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-080

Scenario: Icpr3

Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 68.58 ft
Warning Stage: 70.41 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 66.41 | 0.00 | 0 |
| 66.91 | 0.31 | 13504 |
| 67.41 | 1.32 | 57499 |
| 67.91 | 2.27 | 98881 |
| 68.41 | 5.58 | 243065 |
| 68.91 | 8.66 | 377230 |
| 69.41 | 12.64 | 550598 |
| 69.91 | 17.94 | 781466 |
| 70.41 | 25.53 | 1112087 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

Node: N-081

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 68.58 ft
Warning Stage: 70.13 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 65.63 | 0.00 | 0 |
| 66.13 | 0.33 | 14375 |
| 66.63 | 1.76 | 76666 |
| 67.13 | 3.93 | 171191 |
| 67.63 | 4.75 | 206910 |
| 68.13 | 6.25 | 272250 |
| 68.63 | 9.28 | 404237 |
| 69.13 | 12.42 | 541015 |
| 69.63 | 14.82 | 645559 |
| 70.13 | 16.50 | 718740 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

Node: N-082

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 68.50 ft
Warning Stage: 70.40 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 66.40 | 0.00 | 0 |
| 66.90 | 0.10 | 4356 |
| 67.40 | 1.01 | 43996 |
| 67.90 | 1.62 | 70567 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 68.40 | 2.80 | 121968 |
| 68.90 | 3.92 | 170755 |
| 69.40 | 6.80 | 296208 |
| 69.90 | 9.57 | 416869 |
| 70.40 | 11.27 | 490921 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

Node: N-083

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 67.69 ft
Warning Stage: 70.60 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 66.60 | 0.00 | 0 |
| 67.10 | 0.23 | 10019 |
| 67.60 | 0.37 | 16117 |
| 68.10 | 0.76 | 33106 |
| 68.60 | 1.09 | 47480 |
| 69.10 | 1.68 | 73181 |
| 69.60 | 2.25 | 98010 |
| 70.10 | 3.48 | 151589 |
| 70.60 | 4.56 | 198634 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

Node: N-084

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 65.30 ft
Warning Stage: 67.05 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 63.55 | 0.00 | 0 |
| 64.05 | 0.07 | 3049 |
| 64.55 | 0.35 | 15246 |
| 65.05 | 6.89 | 300128 |
| 65.55 | 38.43 | 1674011 |
| 66.05 | 100.77 | 4389541 |
| 66.55 | 130.90 | 5702004 |
| 67.05 | 154.42 | 6726535 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-085

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 65.30 ft
Warning Stage: 67.12 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 64.12 | 0.00 | 0 |
| 64.62 | 1.61 | 70132 |
| 65.12 | 5.30 | 230868 |
| 65.62 | 6.98 | 304049 |
| 66.12 | 9.63 | 419483 |
| 66.62 | 11.44 | 498326 |
| 67.12 | 12.56 | 547114 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-086

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 69.00 ft
Warning Stage: 71.34 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 67.34 | 0.00 | 0 |
| 67.84 | 0.06 | 2614 |
| 68.35 | 0.14 | 6098 |
| 68.84 | 0.18 | 7841 |
| 69.34 | 0.24 | 10454 |
| 69.84 | 0.41 | 17860 |
| 70.34 | 0.91 | 39640 |
| 70.84 | 1.30 | 56628 |
| 71.34 | 1.67 | 72745 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-087

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 68.00 ft
Warning Stage: 70.05 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 67.05 | 0.00 | 0 |
| 67.55 | 0.31 | 13504 |
| 68.05 | 2.93 | 127631 |
| 68.55 | 3.43 | 149411 |
| 69.05 | 4.23 | 184259 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 69.55 | 6.49 | 282704 |
| 70.05 | 9.14 | 398138 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

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Node: N-088

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 66.00 ft
Warning Stage: 67.18 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 64.18 | 0.00 | 0 |
| 64.68 | 2.79 | 121532 |
| 65.18 | 7.89 | 343688 |
| 65.68 | 21.35 | 930006 |
| 66.18 | 31.07 | 1353409 |
| 66.68 | 34.52 | 1503691 |
| 67.18 | 44.42 | 1934935 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

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Node: N-089

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 64.98 ft
Warning Stage: 70.36 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 64.52 | 0.00 | 0 |
| 64.86 | 0.01 | 436 |
| 65.37 | 0.03 | 1307 |
| 65.86 | 0.08 | 3485 |
| 66.36 | 0.81 | 35284 |
| 66.86 | 1.45 | 63162 |
| 67.36 | 2.25 | 98010 |
| 67.86 | 3.38 | 147233 |
| 68.36 | 5.14 | 223898 |
| 68.86 | 7.56 | 329314 |
| 69.36 | 13.11 | 571072 |
| 69.86 | 14.59 | 635540 |
| 70.36 | 14.77 | 643381 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-133

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 65.87 ft
Warning Stage: 70.30 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 65.87 | 0.00 | 0 |
| 66.30 | 0.01 | 436 |
| 66.80 | 0.08 | 3485 |
| 67.30 | 0.98 | 42689 |
| 67.80 | 2.65 | 115434 |
| 68.30 | 5.82 | 253519 |
| 68.80 | 10.04 | 437342 |
| 69.30 | 13.86 | 603742 |
| 69.80 | 19.56 | 852034 |
| 70.30 | 28.53 | 1242767 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-134

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 69.98 ft
Warning Stage: 71.94 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 68.44 | 0.00 | 0 |
| 68.94 | 0.77 | 33541 |
| 69.44 | 1.92 | 83635 |
| 69.94 | 5.68 | 247421 |
| 70.44 | 12.52 | 545371 |
| 70.94 | 22.18 | 966161 |
| 71.44 | 30.91 | 1346440 |
| 71.94 | 38.07 | 1658329 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-135

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 70.00 ft
Warning Stage: 71.71 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 69.21 | 0.00 | 0 |
| 69.71 | 1.00 | 43560 |
| 70.21 | 1.24 | 54014 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 70.71 | 1.61 | 70132 |
| 71.21 | 2.41 | 104980 |
| 71.71 | 2.95 | 128502 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-136

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 68.17 ft
Warning Stage: 70.78 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 66.78 | 0.00 | 0 |
| 67.28 | 0.54 | 23522 |
| 67.78 | 3.98 | 173369 |
| 68.28 | 8.14 | 354578 |
| 68.78 | 9.86 | 429502 |
| 69.28 | 12.85 | 559746 |
| 69.78 | 16.82 | 732679 |
| 70.28 | 22.88 | 996653 |
| 70.78 | 34.26 | 1492366 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-137

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 70.00 ft
Warning Stage: 71.41 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 67.91 | 0.00 | 0 |
| 68.41 | 0.35 | 15246 |
| 68.91 | 0.71 | 30928 |
| 69.41 | 0.94 | 40946 |
| 69.91 | 1.13 | 49223 |
| 70.41 | 1.46 | 63598 |
| 70.91 | 1.92 | 83635 |
| 71.41 | 2.48 | 108029 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-138

Scenario: Icpr3

Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 70.50 ft
Warning Stage: 72.20 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 68.20 | 0.00 | 0 |
| 68.70 | 0.08 | 3485 |
| 69.20 | 0.17 | 7405 |
| 69.70 | 0.24 | 10454 |
| 70.20 | 0.36 | 15682 |
| 70.70 | 0.49 | 21344 |
| 71.20 | 0.78 | 33977 |
| 71.70 | 1.40 | 60984 |
| 72.20 | 2.26 | 98446 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

Node: N-139

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 64.50 ft
Warning Stage: 66.34 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 63.34 | 0.00 | 0 |
| 63.84 | 2.04 | 88862 |
| 64.34 | 10.06 | 438214 |
| 64.84 | 35.82 | 1560319 |
| 65.34 | 49.63 | 2161883 |
| 65.84 | 62.53 | 2723807 |
| 66.34 | 71.67 | 3121945 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

Node: N-153

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 64.71 ft
Warning Stage: 67.43 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 63.43 | 0.00 | 0 |
| 63.93 | 0.33 | 14375 |
| 64.43 | 1.25 | 54450 |
| 64.93 | 2.64 | 114998 |
| 65.43 | 4.51 | 196456 |
| 65.93 | 7.13 | 310583 |
| 66.43 | 11.43 | 497891 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 66.93 | 16.09 | 700880 |
| 67.43 | 18.73 | 815879 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

Node: N-154

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 66.50 ft
Warning Stage: 68.06 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 64.06 | 0.00 | 0 |
| 64.56 | 0.58 | 25265 |
| 65.06 | 1.07 | 46609 |
| 65.56 | 2.02 | 87991 |
| 66.06 | 3.54 | 154202 |
| 66.56 | 5.13 | 223463 |
| 67.06 | 7.41 | 322780 |
| 67.56 | 9.16 | 399010 |
| 68.06 | 10.43 | 454331 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

Node: N-155

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 64.71 ft
Warning Stage: 66.22 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 64.22 | 0.00 | 0 |
| 64.72 | 0.59 | 25700 |
| 65.22 | 3.15 | 137214 |
| 65.72 | 11.30 | 492228 |
| 66.22 | 21.44 | 933926 |
| 66.72 | 29.00 | 1263240 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

Node: N-156

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 64.00 ft

Warning Stage: 66.48 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 61.98 | 0.00 | 0 |
| 62.48 | 0.57 | 24829 |
| 62.98 | 1.69 | 73616 |
| 63.48 | 2.58 | 112385 |
| 63.98 | 3.63 | 158123 |
| 64.48 | 4.53 | 197327 |
| 64.98 | 5.27 | 229561 |
| 65.48 | 6.11 | 266152 |
| 65.98 | 7.20 | 313632 |
| 66.48 | 9.36 | 407722 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

---

Node: RR-3

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 74.00 ft
Warning Stage: 76.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 73.00 | 0.00 | 0 |
| 74.00 | 0.08 | 3485 |
| 75.00 | 0.84 | 36590 |
| 76.00 | 3.27 | 142441 |

Comment: Stage-volume information obtained from surface model by DWMA.

---

Node: TW-N-075

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 70.00 ft
Warning Stage: 88.30 ft
Boundary Stage: TW-N-075

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 70.00 |
| 0 | 0 | 0 | 999.00 | 70.00 |

Comment:

---

Node: TW-N-090

Scenario: Icpr3
Type: Time/Stage

Base Flow: 0.00 cfs
Initial Stage: 66.00 ft
Warning Stage: 73.95 ft
Boundary Stage: TW-N-090

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 66.00 |
| 0 | 0 | 0 | 999.00 | 66.00 |

Comment:

## Node: TW-N-091

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 64.80 ft
Warning Stage: 66.34 ft
Boundary Stage:

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 64.80 |
| 0 | 0 | 0 | 999.00 | 64.80 |

Comment:

## Node: TW-N-131

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 66.60 ft
Warning Stage: 81.41 ft
Boundary Stage: TW-N-131

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 66.60 |
| 0 | 0 | 0 | 999.00 | 66.60 |

Comment:

## Node: TW-N-141

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 64.00 ft
Warning Stage: 71.51 ft
Boundary Stage:

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 64.00 |
| 0 | 0 | 0 | 999.00 | 64.00 |

Comment:

---

Node: TW-N-157

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 64.70 ft
Warning Stage: 75.44 ft
Boundary Stage: TW-N-157

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 64.70 |
| 0 | 0 | 0 | 999.00 | 64.70 |

Comment:

---

Node: TW-N-158

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 65.80 ft
Warning Stage: 75.26 ft
Boundary Stage: TW-N-158

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 65.80 |
| 0 | 0 | 0 | 999.00 | 65.80 |

Comment:

---

Node: TW-N29

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 75.00 ft
Warning Stage: 76.00 ft
Boundary Stage:

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 75.00 |
| 0 | 0 | 0 | 9999.00 | 75.00 |

Comment:

## Node: TW-W11-7

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 71.20 ft
Warning Stage: 71.30 ft
Boundary Stage:

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 71.20 |
| 0 | 0 | 0 | 9999.00 | 71.20 |

Comment: 71.2 = 100-Year, 24-Hour peak stage in wetland

## Node: TW-W22

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 70.00 ft
Warning Stage: 75.00 ft
Boundary Stage:

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 70.00 |
| 0 | 0 | 0 | 9999.00 | 70.00 |

Comment:

## Node: TW-W37-3

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 62.30 ft
Warning Stage: 67.00 ft
Boundary Stage: TW-W37-3

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 62.30 |
| 0 | 0 | 0 | 999.00 | 62.30 |

Comment:

## Node: W11-1

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 74.00 ft
Warning Stage: 76.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 72.50 | 0.00 | 0 |
| 73.00 | 0.10 | 4356 |
| 74.00 | 3.36 | 146362 |
| 75.00 | 12.24 | 533174 |
| 76.00 | 28.77 | 1253221 |

Comment: Stage-volume information obtained from surface model by DWMA.

## Node: W12

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 81.02 ft
Warning Stage: 83.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 79.30 | 0.00 | 0 |
| 80.00 | 0.95 | 41382 |
| 81.00 | 25.12 | 1094227 |
| 82.00 | 77.92 | 3394195 |
| 83.00 | 152.66 | 6649870 |

Comment: Taken from permitted calculations for "Innovation Way Phase II" (SFWMD app. no. 151202-17)

## Node: W13

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 75.00 ft
Warning Stage: 76.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 73.40 | 0.00 | 0 |
| 74.00 | 0.20 | 8712 |
| 75.00 | 18.62 | 811087 |
| 76.00 | 63.89 | 2783048 |

Comment: Taken from permitted calculations for "Innovation Way Phase II" (SFWMD app. no. 151202-17)

## Node: W14

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 75.10 ft
Warning Stage: 77.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
| --- | --- | --- |
| 73.50 | 0.00 | 0 |
| 74.00 | 0.12 | 5227 |
| 75.00 | 2.40 | 104544 |
| 76.00 | 9.66 | 420790 |
| 77.00 | 23.10 | 1006236 |

Comment: Stage-volume information obtained from surface model by DWMA.

---

## Node: W17

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 73.00 ft
Warning Stage: 75.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
| --- | --- | --- |
| 71.50 | 0.00 | 0 |
| 72.00 | 0.20 | 8712 |
| 73.00 | 4.95 | 215622 |
| 74.00 | 16.45 | 716562 |
| 75.00 | 46.72 | 2035123 |

Comment: Stage-volume information obtained from surface model by DWMA.

---

## Node: W18

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 73.00 ft
Warning Stage: 75.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
| --- | --- | --- |
| 71.60 | 0.00 | 0 |
| 72.00 | 0.22 | 9583 |
| 73.00 | 4.24 | 184694 |
| 74.00 | 14.09 | 613760 |
| 75.00 | 35.38 | 1541153 |

Comment: Stage-volume information obtained from surface model by DWMA.

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## Node: W20

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 73.00 ft
Warning Stage: 75.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 71.30 | 0.00 | 0 |
| 71.50 | 0.01 | 436 |
| 72.00 | 0.13 | 5663 |
| 73.00 | 11.28 | 491357 |
| 74.00 | 37.37 | 1627837 |
| 75.00 | 84.83 | 3695195 |

Comment: Stage-volume information obtained from surface model by DWMA.

## Node: W21

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 74.00 ft
Warning Stage: 75.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 72.20 | 0.00 | 0 |
| 73.00 | 0.33 | 14375 |
| 74.00 | 3.43 | 149411 |
| 75.00 | 9.41 | 409900 |

Comment: Stage-volume information obtained from surface model by DWMA.

## Node: W24

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 71.94 ft
Warning Stage: 74.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 70.00 | 0.00 | 0 |
| 71.00 | 0.10 | 4356 |
| 72.00 | 13.99 | 609404 |
| 72.10 | 16.36 | 712642 |
| 73.00 | 42.01 | 1829956 |
| 74.00 | 83.53 | 3638567 |

Comment: Stage-volume information obtained from surface model by DWMA.

## Node: W24A

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 71.10 ft
Warning Stage: 75.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 69.00 | 0.00 | 0 |
| 70.00 | 0.02 | 871 |
| 71.00 | 0.33 | 14375 |
| 72.00 | 7.34 | 319730 |
| 73.00 | 32.98 | 1436609 |
| 74.00 | 85.02 | 3703471 |
| 75.00 | 167.34 | 7289330 |

Comment: Stage-volume information obtained from surface model by DWMA.

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**Node: W25**

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 69.00 ft
Warning Stage: 73.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 67.30 | 0.00 | 0 |
| 68.00 | 0.27 | 11761 |
| 69.00 | 7.25 | 315810 |
| 70.00 | 34.55 | 1504998 |
| 71.00 | 80.27 | 3496561 |
| 72.00 | 142.41 | 6203380 |
| 73.00 | 214.15 | 9328374 |

Comment: Stage-volume information obtained from surface model by DWMA.

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**Drop Structure Link: DS-084B**

Scenario: Icpr3
From Node: N-084
To Node: TW-N-091
Link Count: 1
Flow Direction: Both
Solution: Split
Pipe Count: 1
Damping: 0.0000 ft
Length: 24.00 ft
FHWA Code: 2
Entr Loss Coef: 0.50
Exit Loss Coef: 1.00
Bend Loss Coef: 0.00
Bend Location: 0.00 ft
Energy Switch: Energy

| | Upstream Pipe | Downstream Pipe |
|---|---|---|
| Invert: | 62.61 ft | 62.29 ft |
| Manning's N: | 0.0120 | 0.0120 |
| Geometry: | Circular | Circular |
| Max Depth: | 3.50 ft | 3.50 ft |
| **Bottom Clip** | | |
| Default: | 0.00 ft | 0.00 ft |
| Op Table: | | |
| Ref Node: | | |
| Manning's N: | 0.0120 | 0.0120 |
| **Top Clip** | | |
| Default: | 0.00 ft | 0.00 ft |
| Op Table: | | |
| Ref Node: | | |
| Manning's N: | 0.0120 | 0.0120 |

Pipe Comment:

**Weir Component**

Weir: 1
Weir Count: 1

**Bottom Clip**

Default: 0.00 ft

| | | | |
|---|---|---|---|
| Weir Flow Direction: | Both | | |
| Damping: | 0.0000 ft | Op Table: | |
| Weir Type: | Broad Crested Vertical | Ref Node: | |
| Geometry Type: | Rectangular | **Top Clip** | |
| Invert: | 65.30 ft | Default: | 0.00 ft |
| Control Elevation: | 65.30 ft | Op Table: | |
| Max Depth: | 10.00 ft | Ref Node: | |
| Max Width: | 100.00 ft | **Discharge Coefficients** | |
| Fillet: | 0.00 ft | Weir Default: | 3.0 |
| | | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

Drop Structure Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

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| Drop Structure Link: DS-084C | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 62.33 ft | Invert: | 62.21 ft |
| From Node: | N-084 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-091 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Solution: | Split | Default: | 0.00 ft | Default: | 0.00 ft |
| Pipe Count: | 1 | Op Table: | | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | | Ref Node: | |
| Length: | 24.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| FHWA Code: | 2 | Top Clip | | | |
| Entr Loss Coef: | 0.20 | Default: | 0.00 ft | Default: | 0.00 ft |
| Exit Loss Coef: | 1.00 | Op Table: | | Op Table: | |
| Bend Loss Coef: | 0.00 | Ref Node: | | Ref Node: | |
| Bend Location: | 0.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Energy Switch: | Energy | | | | |

Pipe Comment:

| Weir Component | | | |
|---|---|---|---|
| Weir: | 1 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Broad Crested Vertical | **Top Clip** | |
| Geometry Type: | Rectangular | Default: | 0.00 ft |
| Invert: | 65.30 ft | Op Table: | |
| Control Elevation: | 65.30 ft | Ref Node: | |
| Max Depth: | 10.00 ft | **Discharge Coefficients** | |
| Max Width: | 100.00 ft | Weir Default: | 3.0 |
| Fillet: | 0.00 ft | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

Drop Structure Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-077 | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 67.64 ft | Invert: | 67.24 ft |
| From Node: | N-077 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-083 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 25.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Comment: From the Innovation Way East-Camino South flood study, dated 9/16. | | | | | |

| Pipe Link: P-080A | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 68.36 ft | Invert: | 67.74 ft |
| From Node: | N-080 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-081 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 28.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.20 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Comment: From the Innovation Way East-Camino South flood study, dated 9/16. | | | | | |

| Pipe Link: P-080B | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 67.98 ft | Invert: | 67.05 ft |
| From Node: | N-080 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-081 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 28.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.20 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Comment: From the Innovation Way East-Camino South flood study, dated 9/16. | | | | | |

| Pipe Link: P-080C | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 67.61 ft | Invert: | 67.57 ft |
| From Node: | N-080 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-081 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 27.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.20 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-085A | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 64.00 ft | Invert: | 64.15 ft |
| From Node: | N-085 | Manning's N: | 0.0240 | Manning's N: | 0.0240 |
| To Node: | N-084 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 21.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 6 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0240 | Manning's N: | 0.0240 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0240 | Manning's N: | 0.0240 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-085B | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 63.88 ft | Invert: | 64.05 ft |
| From Node: | N-085 | Manning's N: | 0.0240 | Manning's N: | 0.0240 |
| To Node: | N-084 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 21.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 6 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0240 | Manning's N: | 0.0240 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0240 | Manning's N: | 0.0240 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-089 | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 64.52 ft | Invert: | 64.40 ft |
| From Node: | N-089 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-090 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 3.00 ft | Max Depth: | 3.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 15.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.20 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-133A | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 66.03 ft | Invert: | 66.29 ft |
| From Node: | N-133 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-131 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 3.00 ft | Max Depth: | 3.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 43.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-133B | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 65.87 ft | Invert: | 64.40 ft |
| From Node: | N-133 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-131 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.25 ft | Max Depth: | 1.25 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 43.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 6 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-133C | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 66.50 ft | Invert: | 65.81 ft |
| From Node: | N-133 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-131 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.50 ft | Max Depth: | 1.50 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 41.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 6 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-134 | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 69.98 ft | Invert: | 69.39 ft |
| From Node: | N-134 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-133 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.00 ft | Max Depth: | 1.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 39.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.20 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-136 | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 68.05 ft | Invert: | 68.17 ft |
| From Node: | N-136 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-133 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.00 ft | Max Depth: | 1.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 41.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.20 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-153A | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 66.12 ft | Invert: | 65.79 ft |
| From Node: | N-153 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-131 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.25 ft | Max Depth: | 1.25 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 40.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 6 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-153B | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 65.16 ft | Invert: | 64.69 ft |
| From Node: | N-153 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-131 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.25 ft | Max Depth: | 1.25 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 40.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 6 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-153C | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 64.64 ft | Invert: | 64.71 ft |
| From Node: | N-153 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-131 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.25 ft | Max Depth: | 1.25 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 41.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 6 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-153D | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 65.04 ft | Invert: | 64.57 ft |
| From Node: | N-153 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-131 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.25 ft | Max Depth: | 1.25 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 43.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 6 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-155A | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 64.38 ft | Invert: | 64.56 ft |
| From Node: | N-155 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-158 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.50 ft | Max Depth: | 1.50 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 32.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.20 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-155B | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 64.89 ft | Invert: | 64.52 ft |
| From Node: | N-155 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-158 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.50 ft | Max Depth: | 1.50 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 33.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Weir Link: RR3-W24 | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | RR-3 | Default: | 0.00 ft |
| To Node: | W24 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 74.00 ft | Discharge Coefficients | |
| Control Elevation: | 74.00 ft | Weir Default: | 3.0 |
| Cross Section: | X-RR3-W24 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

| Weir Link: W-077A | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | N-077 | Default: | 0.00 ft |
| To Node: | W25 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 69.95 ft | Discharge Coefficients | |
| Control Elevation: | 69.95 ft | Weir Default: | 2.6 |
| Cross Section: | XW-077A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

| Weir Link: W-078 | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | N-078 | Default: | 0.00 ft |
| To Node: | TW-N-075 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 69.65 ft | Discharge Coefficients | |
| Control Elevation: | 69.65 ft | Weir Default: | 2.6 |
| Cross Section: | XW-078 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-078A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-078 | Default: | 0.00 ft |
| To Node: | N-080 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 70.44 ft | **Discharge Coefficients** | |
| Control Elevation: | 70.44 ft | Weir Default: | 2.6 |
| Cross Section: | XW-078A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-080

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-080 | Default: | 0.00 ft |
| To Node: | N-081 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 69.16 ft | **Discharge Coefficients** | |
| Control Elevation: | 69.16 ft | Weir Default: | 2.6 |
| Cross Section: | XW-080 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-080A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-080 | Default: | 0.00 ft |
| To Node: | N-082 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 69.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 69.00 ft | Weir Default: | 2.6 |
| Cross Section: | XW-080A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-081

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-081 | Default: | 0.00 ft |
| To Node: | N-084 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 68.58 ft | **Discharge Coefficients** | |
| Control Elevation: | 68.58 ft | Weir Default: | 2.6 |
| Cross Section: | XW-081 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-082

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-082 | Default: | 0.00 ft |
| To Node: | N-084 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 69.04 ft | **Discharge Coefficients** | |
| Control Elevation: | 69.04 ft | Weir Default: | 2.6 |
| Cross Section: | XW-082 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-083

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-083 | Default: | 0.00 ft |
| To Node: | N-084 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 68.01 ft | **Discharge Coefficients** | |
| Control Elevation: | 68.01 ft | Weir Default: | 2.6 |
| Cross Section: | XW-083 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-083A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-083 | Default: | 0.00 ft |
| To Node: | TW-W37-3 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 67.69 ft | **Discharge Coefficients** | |
| Control Elevation: | 67.69 ft | Weir Default: | 2.6 |
| Cross Section: | XW-083A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-083B

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W25 | Default: | 0.00 ft |
| To Node: | N-083 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 68.98 ft | **Discharge Coefficients** | |
| Control Elevation: | 68.98 ft | Weir Default: | 2.6 |
| Cross Section: | X-083B | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-084A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-084 | Default: | 0.00 ft |
| To Node: | TW-N-091 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 65.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 65.30 ft | Weir Default: | 2.6 |
| Cross Section: | XW-084A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-085

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-085 | Default: | 0.00 ft |
| To Node: | N-084 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 66.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 66.00 ft | Weir Default: | 2.6 |
| Cross Section: | XW-085 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-085A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-085 | Default: | 0.00 ft |
| To Node: | TW-W37-3 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 66.05 ft | **Discharge Coefficients** | |
| Control Elevation: | 66.05 ft | Weir Default: | 2.6 |
| Cross Section: | XW-085A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-086

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-086 | Default: | 0.00 ft |
| To Node: | N-087 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 70.01 ft | **Discharge Coefficients** | |
| Control Elevation: | 70.01 ft | Weir Default: | 2.6 |
| Cross Section: | XW-086 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-087

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-087 | Default: | 0.00 ft |
| To Node: | N-088 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 68.02 ft | **Discharge Coefficients** | |
| Control Elevation: | 68.02 ft | Weir Default: | 2.6 |
| Cross Section: | XW-087 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-088

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-088 | Default: | 0.00 ft |
| To Node: | N-084 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 65.67 ft | **Discharge Coefficients** | |
| Control Elevation: | 66.00 ft | Weir Default: | 2.6 |
| Cross Section: | XW-088 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-089

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-089 | Default: | 0.00 ft |
| To Node: | N-084 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 67.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 67.00 ft | Weir Default: | 2.6 |
| Cross Section: | XW-089 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-090

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-084 | Default: | 0.00 ft |
| To Node: | TW-N-090 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 65.83 ft | **Discharge Coefficients** | |
| Control Elevation: | 65.83 ft | Weir Default: | 2.6 |
| Cross Section: | XW-090 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-133

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-133 | Default: | 0.00 ft |
| To Node: | TW-N-131 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 68.08 ft | **Discharge Coefficients** | |
| Control Elevation: | 68.08 ft | Weir Default: | 2.6 |
| Cross Section: | XW-133 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-134A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-134 | Default: | 0.00 ft |
| To Node: | N-084 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 70.91 ft | **Discharge Coefficients** | |
| Control Elevation: | 70.91 ft | Weir Default: | 2.6 |
| Cross Section: | XW-134A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-135

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-134 | Default: | 0.00 ft |
| To Node: | N-135 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 70.95 ft | **Discharge Coefficients** | |
| Control Elevation: | 70.95 ft | Weir Default: | 2.6 |
| Cross Section: | XW-135 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-135A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-135 | Default: | 0.00 ft |
| To Node: | N-084 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 70.65 ft | **Discharge Coefficients** | |
| Control Elevation: | 70.65 ft | Weir Default: | 2.6 |
| Cross Section: | XW-135A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-136

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-136 | Default: | 0.00 ft |
| To Node: | N-133 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 69.18 ft | **Discharge Coefficients** | |
| Control Elevation: | 69.18 ft | Weir Default: | 2.6 |
| Cross Section: | XW-136 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-137

| | |
|---|---|
| Scenario: | Icpr3 |
| From Node: | N-137 |
| To Node: | N-139 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 70.50 ft |
| Control Elevation: | 70.50 ft |
| Cross Section: | XW-137 |

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

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

| Discharge Coefficients | |
|---|---|
| Weir Default: | 2.6 |
| Weir Table: | |
| Orifice Default: | 0.6 |
| Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-138

| | |
|---|---|
| Scenario: | Icpr3 |
| From Node: | N-138 |
| To Node: | N-139 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 71.38 ft |
| Control Elevation: | 71.38 ft |
| Cross Section: | XW-138 |

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

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

| Discharge Coefficients | |
|---|---|
| Weir Default: | 2.6 |
| Weir Table: | |
| Orifice Default: | 0.6 |
| Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-139

| | |
|---|---|
| Scenario: | Icpr3 |
| From Node: | N-139 |
| To Node: | TW-N-141 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 64.52 ft |
| Control Elevation: | 64.52 ft |
| Cross Section: | XW-139 |

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

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

| Discharge Coefficients | |
|---|---|
| Weir Default: | 2.6 |
| Weir Table: | |
| Orifice Default: | 0.6 |
| Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-139A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-139 | Default: | 0.00 ft |
| To Node: | TW-N-141 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 64.55 ft | **Discharge Coefficients** | |
| Control Elevation: | 64.55 ft | Weir Default: | 2.6 |
| Cross Section: | XW-139A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-154

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-154 | Default: | 0.00 ft |
| To Node: | N-153 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 66.62 ft | **Discharge Coefficients** | |
| Control Elevation: | 66.62 ft | Weir Default: | 2.6 |
| Cross Section: | XW-154 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-155

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-153 | Default: | 0.00 ft |
| To Node: | N-155 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 66.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 66.00 ft | Weir Default: | 2.6 |
| Cross Section: | XW-155 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-155A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-155 | Default: | 0.00 ft |
| To Node: | N-156 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 65.69 ft | **Discharge Coefficients** | |
| Control Elevation: | 65.69 ft | Weir Default: | 2.6 |
| Cross Section: | XW-155A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-156

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-156 | Default: | 0.00 ft |
| To Node: | TW-N-157 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 64.74 ft | **Discharge Coefficients** | |
| Control Elevation: | 64.74 ft | Weir Default: | 2.6 |
| Cross Section: | XW-156 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W11-1W11-7

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W11-1 | Default: | 0.00 ft |
| To Node: | TW-W11-7 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 74.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 74.00 ft | Weir Default: | 3.0 |
| Cross Section: | X-W11-1W11-7 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

| Weir Link: W11-1W18 | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | W11-1 | Default: | 0.00 ft |
| To Node: | W18 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 74.80 ft | Discharge Coefficients | |
| Control Elevation: | 74.80 ft | Weir Default: | 3.0 |
| Cross Section: | X-W11-1W18 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

| Weir Link: W12-N29 | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | W12 | Default: | 0.00 ft |
| To Node: | TW-N29 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 81.40 ft | Discharge Coefficients | |
| Control Elevation: | 83.00 ft | Weir Default: | 3.0 |
| Cross Section: | X-W12-N29 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: Taken from permitted calculations for "Innovation Way Phase II" (SFWMD app. no. 151202-17)

| Weir Link: W12-W13 | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | W12 | Default: | 0.00 ft |
| To Node: | W13 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 81.10 ft | Discharge Coefficients | |
| Control Elevation: | 81.20 ft | Weir Default: | 3.0 |
| Cross Section: | X-W12-W13 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

## Weir Link: W13-N29

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W13 | Default: | 0.00 ft |
| To Node: | TW-N29 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 74.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 75.00 ft | Weir Default: | 3.0 |
| Cross Section: | X-W13-N29 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

## Weir Link: W13-W18

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W13 | Default: | 0.00 ft |
| To Node: | W18 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 75.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 75.00 ft | Weir Default: | 3.0 |
| Cross Section: | X-W13-W18 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

## Weir Link: W13W11-1

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W13 | Default: | 0.00 ft |
| To Node: | W11-1 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 75.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 75.00 ft | Weir Default: | 3.0 |
| Cross Section: | X-W13W11-1 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

## Weir Link: W14-N29

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W14 | Default: | 0.00 ft |
| To Node: | TW-N29 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 75.20 ft | **Discharge Coefficients** | |
| Control Elevation: | 75.40 ft | Weir Default: | 3.0 |
| Cross Section: | X-W14-N29 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

## Weir Link: W14-W13

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W13 | Default: | 0.00 ft |
| To Node: | W14 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 75.10 ft | **Discharge Coefficients** | |
| Control Elevation: | 75.10 ft | Weir Default: | 3.0 |
| Cross Section: | X-W14-W13 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

## Weir Link: W17-W24A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W17 | Default: | 0.00 ft |
| To Node: | W24A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 73.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 73.00 ft | Weir Default: | 3.0 |
| Cross Section: | X-W17-W24A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

## Weir Link: W18-W24A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W18 | Default: | 0.00 ft |
| To Node: | W24A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 73.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 73.00 ft | Weir Default: | 3.0 |
| Cross Section: | X-W18-W24A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

## Weir Link: W20-W11-7

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W20 | Default: | 0.00 ft |
| To Node: | TW-W11-7 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 73.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 73.00 ft | Weir Default: | 3.0 |
| Cross Section: | X-W20-W11-7 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

## Weir Link: W21-W17

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W21 | Default: | 0.00 ft |
| To Node: | W17 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 74.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 74.00 ft | Weir Default: | 3.0 |
| Cross Section: | X-W21-W17 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

## Weir Link: W21-W24A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W21 | Default: | 0.00 ft |
| To Node: | W24A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 74.50 ft | **Discharge Coefficients** | |
| Control Elevation: | 74.50 ft | Weir Default: | 3.0 |
| Cross Section: | X-W24-W24A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

## Weir Link: W24-W24A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W24 | Default: | 0.00 ft |
| To Node: | W24A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 72.20 ft | **Discharge Coefficients** | |
| Control Elevation: | 72.20 ft | Weir Default: | 3.0 |
| Cross Section: | X-W24-W24A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

## Weir Link: W24A-W22

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W24A | Default: | 0.00 ft |
| To Node: | TW-W22 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 68.20 ft | **Discharge Coefficients** | |
| Control Elevation: | 71.10 ft | Weir Default: | 3.0 |
| Cross Section: | X-W24A-W22 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

## Weir Link: W25W37-3

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W25 | Default: | 0.00 ft |
| To Node: | TW-W37-3 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Rectangular | Ref Node: | |
| Invert: | 69.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 69.00 ft | Weir Default: | 3.0 |
| Max Depth: | 83.25 ft | Weir Table: | |
| Max Width: | 333.33 ft | Orifice Default: | 0.6 |
| Fillet: | 0.00 ft | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

## Boundary Stage: TW-N-075

Boundary Stage Set: 100-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 69.00 |
| 0 | 0 | 0 | 4.00 | 69.00 |
| 0 | 0 | 0 | 5.00 | 69.10 |
| 0 | 0 | 0 | 5.50 | 69.20 |
| 0 | 0 | 0 | 6.00 | 69.30 |
| 0 | 0 | 0 | 7.00 | 69.40 |
| 0 | 0 | 0 | 7.50 | 69.50 |
| 0 | 0 | 0 | 8.00 | 69.60 |
| 0 | 0 | 0 | 8.50 | 69.70 |
| 0 | 0 | 0 | 9.25 | 69.80 |
| 0 | 0 | 0 | 10.00 | 69.90 |
| 0 | 0 | 0 | 12.50 | 69.90 |
| 0 | 0 | 0 | 13.75 | 69.80 |
| 0 | 0 | 0 | 15.00 | 69.70 |
| 0 | 0 | 0 | 16.25 | 69.60 |
| 0 | 0 | 0 | 17.75 | 69.50 |
| 0 | 0 | 0 | 20.75 | 69.40 |
| 0 | 0 | 0 | 24.50 | 69.30 |
| 0 | 0 | 0 | 30.00 | 69.20 |

Comment:

## Boundary Stage: TW-N-090

Boundary Stage Set: 100-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 65.00 |
| 0 | 0 | 0 | 4.50 | 65.00 |
| 0 | 0 | 0 | 5.00 | 65.10 |
| 0 | 0 | 0 | 5.75 | 65.20 |
| 0 | 0 | 0 | 6.25 | 65.30 |

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 6.75 | 65.40 |
| 0 | 0 | 0 | 7.00 | 65.50 |
| 0 | 0 | 0 | 7.25 | 65.60 |
| 0 | 0 | 0 | 7.75 | 65.70 |
| 0 | 0 | 0 | 8.00 | 65.80 |
| 0 | 0 | 0 | 9.25 | 65.90 |
| 0 | 0 | 0 | 10.50 | 66.00 |
| 0 | 0 | 0 | 11.50 | 65.90 |
| 0 | 0 | 0 | 12.25 | 65.80 |
| 0 | 0 | 0 | 13.00 | 65.70 |
| 0 | 0 | 0 | 13.50 | 65.60 |
| 0 | 0 | 0 | 14.25 | 65.50 |
| 0 | 0 | 0 | 15.00 | 65.40 |
| 0 | 0 | 0 | 16.00 | 65.30 |
| 0 | 0 | 0 | 21.00 | 65.20 |
| 0 | 0 | 0 | 25.25 | 65.10 |
| 0 | 0 | 0 | 26.75 | 65.00 |
| 0 | 0 | 0 | 30.00 | 65.00 |

Comment:

Boundary Stage: TW-N-131

Boundary Stage Set: 100-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 63.20 |
| 0 | 0 | 0 | 5.00 | 63.20 |
| 0 | 0 | 0 | 5.50 | 63.30 |
| 0 | 0 | 0 | 6.00 | 63.40 |
| 0 | 0 | 0 | 6.25 | 63.50 |
| 0 | 0 | 0 | 6.50 | 63.60 |
| 0 | 0 | 0 | 6.75 | 63.70 |
| 0 | 0 | 0 | 7.00 | 63.80 |
| 0 | 0 | 0 | 7.25 | 63.90 |
| 0 | 0 | 0 | 7.50 | 64.00 |
| 0 | 0 | 0 | 7.75 | 64.20 |
| 0 | 0 | 0 | 8.00 | 64.30 |
| 0 | 0 | 0 | 8.25 | 64.40 |
| 0 | 0 | 0 | 8.50 | 64.60 |
| 0 | 0 | 0 | 8.75 | 64.80 |
| 0 | 0 | 0 | 9.00 | 65.00 |
| 0 | 0 | 0 | 9.25 | 65.10 |
| 0 | 0 | 0 | 9.50 | 65.30 |
| 0 | 0 | 0 | 9.75 | 65.50 |
| 0 | 0 | 0 | 10.00 | 65.70 |
| 0 | 0 | 0 | 10.25 | 65.80 |
| 0 | 0 | 0 | 10.50 | 66.00 |
| 0 | 0 | 0 | 10.75 | 66.10 |
| 0 | 0 | 0 | 11.00 | 66.20 |
| 0 | 0 | 0 | 11.25 | 66.30 |
| 0 | 0 | 0 | 11.50 | 66.40 |
| 0 | 0 | 0 | 11.75 | 66.40 |
| 0 | 0 | 0 | 13.50 | 66.50 |

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 16.00 | 66.40 |
| 0 | 0 | 0 | 17.50 | 66.30 |
| 0 | 0 | 0 | 19.50 | 66.20 |
| 0 | 0 | 0 | 22.75 | 66.10 |
| 0 | 0 | 0 | 26.00 | 66.00 |
| 0 | 0 | 0 | 30.00 | 65.90 |

Comment:

## Boundary Stage: TW-N-157

Boundary Stage Set: 100-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 61.00 |
| 0 | 0 | 0 | 6.00 | 61.00 |
| 0 | 0 | 0 | 6.25 | 61.10 |
| 0 | 0 | 0 | 6.50 | 61.30 |
| 0 | 0 | 0 | 6.75 | 61.50 |
| 0 | 0 | 0 | 7.00 | 61.60 |
| 0 | 0 | 0 | 7.25 | 61.70 |
| 0 | 0 | 0 | 7.50 | 61.80 |
| 0 | 0 | 0 | 7.75 | 61.90 |
| 0 | 0 | 0 | 8.00 | 62.10 |
| 0 | 0 | 0 | 8.25 | 62.30 |
| 0 | 0 | 0 | 8.50 | 62.40 |
| 0 | 0 | 0 | 8.75 | 62.70 |
| 0 | 0 | 0 | 9.00 | 62.90 |
| 0 | 0 | 0 | 9.25 | 63.30 |
| 0 | 0 | 0 | 9.50 | 63.50 |
| 0 | 0 | 0 | 9.75 | 63.70 |
| 0 | 0 | 0 | 10.00 | 64.00 |
| 0 | 0 | 0 | 10.25 | 64.30 |
| 0 | 0 | 0 | 10.50 | 64.40 |
| 0 | 0 | 0 | 10.75 | 64.50 |
| 0 | 0 | 0 | 12.75 | 64.50 |
| 0 | 0 | 0 | 15.50 | 64.40 |
| 0 | 0 | 0 | 17.00 | 64.30 |
| 0 | 0 | 0 | 18.75 | 64.20 |
| 0 | 0 | 0 | 20.75 | 64.10 |
| 0 | 0 | 0 | 23.00 | 64.00 |
| 0 | 0 | 0 | 25.25 | 63.90 |
| 0 | 0 | 0 | 27.25 | 63.80 |
| 0 | 0 | 0 | 30.00 | 63.70 |

Comment:

## Boundary Stage: TW-N-158

Boundary Stage Set: 100-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 64.70 |
| 0 | 0 | 0 | 5.00 | 64.70 |
| 0 | 0 | 0 | 6.75 | 64.80 |
| 0 | 0 | 0 | 7.00 | 64.90 |
| 0 | 0 | 0 | 7.50 | 65.00 |
| 0 | 0 | 0 | 8.00 | 65.10 |
| 0 | 0 | 0 | 8.25 | 65.20 |
| 0 | 0 | 0 | 8.50 | 65.30 |
| 0 | 0 | 0 | 8.75 | 65.40 |
| 0 | 0 | 0 | 9.00 | 65.50 |
| 0 | 0 | 0 | 9.50 | 65.60 |
| 0 | 0 | 0 | 10.00 | 65.70 |
| 0 | 0 | 0 | 11.50 | 65.70 |
| 0 | 0 | 0 | 12.50 | 65.60 |
| 0 | 0 | 0 | 13.75 | 65.50 |
| 0 | 0 | 0 | 15.50 | 65.40 |
| 0 | 0 | 0 | 18.75 | 65.30 |
| 0 | 0 | 0 | 24.00 | 65.20 |
| 0 | 0 | 0 | 30.00 | 65.10 |

Comment:

Boundary Stage: TW-W22

Boundary Stage Set: 100-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 70.00 |
| 0 | 0 | 0 | 3.25 | 70.00 |
| 0 | 0 | 0 | 3.50 | 70.01 |
| 0 | 0 | 0 | 5.00 | 70.11 |
| 0 | 0 | 0 | 6.00 | 70.27 |
| 0 | 0 | 0 | 7.00 | 70.49 |
| 0 | 0 | 0 | 9.00 | 71.51 |
| 0 | 0 | 0 | 10.00 | 71.89 |
| 0 | 0 | 0 | 11.00 | 72.14 |
| 0 | 0 | 0 | 11.25 | 72.16 |
| 0 | 0 | 0 | 11.50 | 72.17 |
| 0 | 0 | 0 | 11.75 | 72.17 |
| 0 | 0 | 0 | 12.00 | 72.15 |
| 0 | 0 | 0 | 13.00 | 71.98 |
| 0 | 0 | 0 | 14.00 | 71.74 |
| 0 | 0 | 0 | 15.00 | 71.53 |
| 0 | 0 | 0 | 16.00 | 71.42 |
| 0 | 0 | 0 | 18.00 | 71.29 |
| 0 | 0 | 0 | 19.00 | 71.25 |
| 0 | 0 | 0 | 20.00 | 71.22 |
| 0 | 0 | 0 | 21.00 | 71.20 |
| 0 | 0 | 0 | 22.00 | 71.17 |
| 0 | 0 | 0 | 23.00 | 71.15 |
| 0 | 0 | 0 | 24.00 | 71.12 |
| 0 | 0 | 0 | 30.00 | 70.80 |

Comment:

## Boundary Stage: TW-W37-3

Boundary Stage Set: 100-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 65.50 |
| 0 | 0 | 0 | 4.00 | 65.50 |
| 0 | 0 | 0 | 5.75 | 65.60 |
| 0 | 0 | 0 | 7.00 | 65.70 |
| 0 | 0 | 0 | 7.50 | 65.80 |
| 0 | 0 | 0 | 8.00 | 65.90 |
| 0 | 0 | 0 | 8.50 | 66.00 |
| 0 | 0 | 0 | 9.00 | 66.10 |
| 0 | 0 | 0 | 9.25 | 66.20 |
| 0 | 0 | 0 | 9.50 | 66.30 |
| 0 | 0 | 0 | 10.00 | 66.40 |
| 0 | 0 | 0 | 11.25 | 66.40 |
| 0 | 0 | 0 | 11.75 | 66.30 |
| 0 | 0 | 0 | 12.50 | 66.20 |
| 0 | 0 | 0 | 12.75 | 66.20 |
| 0 | 0 | 0 | 13.50 | 66.10 |
| 0 | 0 | 0 | 14.75 | 66.00 |
| 0 | 0 | 0 | 16.25 | 65.90 |
| 0 | 0 | 0 | 19.00 | 65.80 |
| 0 | 0 | 0 | 23.50 | 65.70 |
| 0 | 0 | 0 | 30.00 | 65.60 |

Comment:

## Boundary Stage: TW-N-075

Boundary Stage Set: 25-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 69.00 |
| 0 | 0 | 0 | 4.00 | 69.00 |
| 0 | 0 | 0 | 5.00 | 69.10 |
| 0 | 0 | 0 | 5.50 | 69.10 |
| 0 | 0 | 0 | 6.00 | 69.20 |
| 0 | 0 | 0 | 7.00 | 69.30 |
| 0 | 0 | 0 | 7.50 | 69.40 |
| 0 | 0 | 0 | 8.00 | 69.50 |
| 0 | 0 | 0 | 8.50 | 69.60 |
| 0 | 0 | 0 | 9.25 | 69.70 |
| 0 | 0 | 0 | 10.00 | 69.80 |
| 0 | 0 | 0 | 12.50 | 69.80 |
| 0 | 0 | 0 | 13.75 | 69.70 |
| 0 | 0 | 0 | 15.00 | 69.60 |
| 0 | 0 | 0 | 16.25 | 69.50 |
| 0 | 0 | 0 | 17.75 | 69.40 |
| 0 | 0 | 0 | 20.75 | 69.30 |
| 0 | 0 | 0 | 24.50 | 69.30 |
| 0 | 0 | 0 | 30.00 | 69.20 |

Comment:

## Boundary Stage: TW-N-090

Boundary Stage Set: 25-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 65.00 |
| 0 | 0 | 0 | 4.50 | 65.00 |
| 0 | 0 | 0 | 5.00 | 65.00 |
| 0 | 0 | 0 | 5.75 | 65.10 |
| 0 | 0 | 0 | 6.25 | 65.20 |
| 0 | 0 | 0 | 6.75 | 65.30 |
| 0 | 0 | 0 | 7.00 | 65.40 |
| 0 | 0 | 0 | 7.25 | 65.50 |
| 0 | 0 | 0 | 7.75 | 65.60 |
| 0 | 0 | 0 | 8.00 | 65.70 |
| 0 | 0 | 0 | 9.25 | 65.90 |
| 0 | 0 | 0 | 10.50 | 65.90 |
| 0 | 0 | 0 | 11.50 | 65.80 |
| 0 | 0 | 0 | 12.25 | 65.60 |
| 0 | 0 | 0 | 13.00 | 65.50 |
| 0 | 0 | 0 | 13.50 | 65.50 |
| 0 | 0 | 0 | 14.25 | 65.40 |
| 0 | 0 | 0 | 15.00 | 65.30 |
| 0 | 0 | 0 | 16.00 | 65.30 |
| 0 | 0 | 0 | 21.00 | 65.20 |
| 0 | 0 | 0 | 25.25 | 65.10 |
| 0 | 0 | 0 | 26.75 | 65.00 |
| 0 | 0 | 0 | 30.00 | 65.00 |

Comment:

## Boundary Stage: TW-N-131

Boundary Stage Set: 25-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 63.20 |
| 0 | 0 | 0 | 5.00 | 63.20 |
| 0 | 0 | 0 | 5.50 | 63.20 |
| 0 | 0 | 0 | 6.00 | 63.30 |
| 0 | 0 | 0 | 6.25 | 63.40 |
| 0 | 0 | 0 | 6.50 | 63.40 |
| 0 | 0 | 0 | 6.75 | 63.50 |
| 0 | 0 | 0 | 7.00 | 63.60 |
| 0 | 0 | 0 | 7.25 | 63.70 |
| 0 | 0 | 0 | 7.50 | 63.80 |
| 0 | 0 | 0 | 7.75 | 63.90 |
| 0 | 0 | 0 | 8.00 | 64.10 |
| 0 | 0 | 0 | 8.25 | 64.20 |
| 0 | 0 | 0 | 8.50 | 64.30 |
| 0 | 0 | 0 | 8.75 | 64.50 |
| 0 | 0 | 0 | 9.00 | 64.70 |
| 0 | 0 | 0 | 9.25 | 64.80 |
| 0 | 0 | 0 | 9.50 | 65.00 |
| 0 | 0 | 0 | 9.75 | 65.10 |
| 0 | 0 | 0 | 10.00 | 65.30 |

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 10.25 | 65.40 |
| 0 | 0 | 0 | 10.50 | 65.50 |
| 0 | 0 | 0 | 10.75 | 65.70 |
| 0 | 0 | 0 | 11.00 | 65.80 |
| 0 | 0 | 0 | 11.25 | 65.90 |
| 0 | 0 | 0 | 11.50 | 66.00 |
| 0 | 0 | 0 | 11.75 | 66.00 |
| 0 | 0 | 0 | 13.50 | 66.30 |
| 0 | 0 | 0 | 16.00 | 66.30 |
| 0 | 0 | 0 | 17.50 | 66.20 |
| 0 | 0 | 0 | 19.50 | 66.10 |
| 0 | 0 | 0 | 22.75 | 66.10 |
| 0 | 0 | 0 | 26.00 | 66.00 |
| 0 | 0 | 0 | 30.00 | 65.80 |

Comment:

Boundary Stage: TW-N-157

Boundary Stage Set: 25-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 61.00 |
| 0 | 0 | 0 | 6.00 | 61.00 |
| 0 | 0 | 0 | 6.25 | 61.00 |
| 0 | 0 | 0 | 6.50 | 61.10 |
| 0 | 0 | 0 | 6.75 | 61.20 |
| 0 | 0 | 0 | 7.00 | 61.40 |
| 0 | 0 | 0 | 7.25 | 61.50 |
| 0 | 0 | 0 | 7.50 | 61.60 |
| 0 | 0 | 0 | 7.75 | 61.70 |
| 0 | 0 | 0 | 8.00 | 61.90 |
| 0 | 0 | 0 | 8.25 | 62.00 |
| 0 | 0 | 0 | 8.50 | 62.10 |
| 0 | 0 | 0 | 8.75 | 62.30 |
| 0 | 0 | 0 | 9.00 | 62.50 |
| 0 | 0 | 0 | 9.25 | 62.70 |
| 0 | 0 | 0 | 9.50 | 62.90 |
| 0 | 0 | 0 | 9.75 | 63.10 |
| 0 | 0 | 0 | 10.00 | 63.30 |
| 0 | 0 | 0 | 10.25 | 63.50 |
| 0 | 0 | 0 | 10.50 | 63.60 |
| 0 | 0 | 0 | 10.75 | 63.80 |
| 0 | 0 | 0 | 12.75 | 64.00 |
| 0 | 0 | 0 | 15.50 | 64.10 |
| 0 | 0 | 0 | 17.00 | 64.10 |
| 0 | 0 | 0 | 18.75 | 64.10 |
| 0 | 0 | 0 | 20.75 | 64.00 |
| 0 | 0 | 0 | 23.00 | 63.90 |
| 0 | 0 | 0 | 25.25 | 63.80 |
| 0 | 0 | 0 | 27.25 | 63.70 |
| 0 | 0 | 0 | 30.00 | 63.60 |

Comment:

## Boundary Stage: TW-N-158

Boundary Stage Set: 25-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 64.70 |
| 0 | 0 | 0 | 5.00 | 64.70 |
| 0 | 0 | 0 | 6.75 | 64.80 |
| 0 | 0 | 0 | 7.00 | 64.80 |
| 0 | 0 | 0 | 7.50 | 64.90 |
| 0 | 0 | 0 | 8.00 | 65.00 |
| 0 | 0 | 0 | 8.25 | 65.10 |
| 0 | 0 | 0 | 8.50 | 65.20 |
| 0 | 0 | 0 | 8.75 | 65.30 |
| 0 | 0 | 0 | 9.00 | 65.30 |
| 0 | 0 | 0 | 9.50 | 65.50 |
| 0 | 0 | 0 | 10.00 | 65.60 |
| 0 | 0 | 0 | 11.50 | 65.60 |
| 0 | 0 | 0 | 12.50 | 65.50 |
| 0 | 0 | 0 | 13.75 | 65.40 |
| 0 | 0 | 0 | 15.50 | 65.40 |
| 0 | 0 | 0 | 18.75 | 65.30 |
| 0 | 0 | 0 | 24.00 | 65.20 |
| 0 | 0 | 0 | 30.00 | 65.10 |

Comment:

## Boundary Stage: TW-W22

Boundary Stage Set: 25-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 70.00 |
| 0 | 0 | 0 | 3.50 | 70.00 |
| 0 | 0 | 0 | 4.00 | 70.02 |
| 0 | 0 | 0 | 5.00 | 70.07 |
| 0 | 0 | 0 | 6.00 | 70.20 |
| 0 | 0 | 0 | 7.00 | 70.37 |
| 0 | 0 | 0 | 7.50 | 70.51 |
| 0 | 0 | 0 | 9.75 | 71.60 |
| 0 | 0 | 0 | 10.00 | 71.66 |
| 0 | 0 | 0 | 10.50 | 71.74 |
| 0 | 0 | 0 | 11.00 | 71.78 |
| 0 | 0 | 0 | 11.50 | 71.78 |
| 0 | 0 | 0 | 12.00 | 71.73 |
| 0 | 0 | 0 | 12.50 | 71.66 |
| 0 | 0 | 0 | 13.00 | 71.60 |
| 0 | 0 | 0 | 14.00 | 71.51 |
| 0 | 0 | 0 | 15.00 | 71.43 |
| 0 | 0 | 0 | 16.00 | 71.36 |
| 0 | 0 | 0 | 17.00 | 71.30 |
| 0 | 0 | 0 | 18.00 | 71.25 |
| 0 | 0 | 0 | 19.00 | 71.22 |
| 0 | 0 | 0 | 20.00 | 71.19 |
| 0 | 0 | 0 | 21.00 | 71.17 |
| 0 | 0 | 0 | 22.00 | 71.14 |

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 23.00 | 71.11 |
| 0 | 0 | 0 | 24.00 | 71.09 |
| 0 | 0 | 0 | 25.00 | 71.04 |
| 0 | 0 | 0 | 26.00 | 70.98 |
| 0 | 0 | 0 | 27.00 | 70.92 |
| 0 | 0 | 0 | 28.00 | 70.86 |
| 0 | 0 | 0 | 29.00 | 70.80 |
| 0 | 0 | 0 | 30.00 | 70.73 |

Comment:

## Boundary Stage: TW-W37-3

Boundary Stage Set: 25-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 65.50 |
| 0 | 0 | 0 | 4.00 | 65.50 |
| 0 | 0 | 0 | 5.75 | 65.60 |
| 0 | 0 | 0 | 7.00 | 65.70 |
| 0 | 0 | 0 | 7.50 | 65.70 |
| 0 | 0 | 0 | 8.00 | 65.80 |
| 0 | 0 | 0 | 8.50 | 65.90 |
| 0 | 0 | 0 | 9.00 | 66.00 |
| 0 | 0 | 0 | 9.25 | 66.10 |
| 0 | 0 | 0 | 9.50 | 66.10 |
| 0 | 0 | 0 | 10.00 | 66.20 |
| 0 | 0 | 0 | 11.25 | 66.20 |
| 0 | 0 | 0 | 11.75 | 66.20 |
| 0 | 0 | 0 | 12.50 | 66.10 |
| 0 | 0 | 0 | 12.75 | 66.10 |
| 0 | 0 | 0 | 13.50 | 66.00 |
| 0 | 0 | 0 | 14.75 | 65.90 |
| 0 | 0 | 0 | 16.25 | 65.90 |
| 0 | 0 | 0 | 19.00 | 65.80 |
| 0 | 0 | 0 | 23.50 | 65.70 |
| 0 | 0 | 0 | 30.00 | 65.60 |

Comment:

## Curve Number: Icpr3 [Set]

| Land Cover Zone | Soil Zone | Curve Number [dec] |
|---|---|---|
| B-077 | B-077 | 52 |
| B-078 | B-078 | 72 |
| B-080 | B-080 | 70 |
| B-081 | B-081 | 90 |
| B-082 | B-082 | 73 |
| B-083 | B-083 | 78 |
| B-084 | B-084 | 87 |
| B-085 | B-085 | 97 |

| Land Cover Zone | Soil Zone | Curve Number [dec] |
|---|---|---|
| B-086 | B-086 | 73 |
| B-087 | B-087 | 84 |
| B-088 | B-088 | 89 |
| B-089 | B-089 | 80 |
| B-133 | B-133 | 72 |
| B-134 | B-134 | 73 |
| B-135 | B-135 | 53 |
| B-136 | B-136 | 67 |
| B-137 | B-137 | 58 |
| B-138 | B-138 | 49 |
| B-139 | B-139 | 71 |
| B-153 | B-153 | 84 |
| B-154 | B-154 | 79 |
| B-155 | B-155 | 72 |
| B-156 | B-156 | 58 |
| RR-3 | RR-3 | 49 |
| W11-1 | W11-1 | 71 |
| W11-7 | W11-7 | 61 |
| W12 | W12 | 71 |
| W13 | W13 | 67 |
| W14 | W14 | 74 |
| W17 | W17 | 75 |
| W18 | W18 | 74 |
| W20 | W20 | 70 |
| W21 | W21 | 76 |
| W24 | W24 | 70 |
| W24A | W24A | 72 |
| W25 | W25 | 56 |

Impervious: Icpr3 [Set]

| Land Cover Zone | % Impervious | % DCIA | % Direct | Ia Impervious [in] | Ia Pervious [in] |
|---|---|---|---|---|---|
| B-077 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-078 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-080 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-081 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-082 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-083 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-084 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-085 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-086 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-087 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-088 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-089 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-133 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-134 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-135 | 16.40 | 16.40 | 0.00 | 0.100 | 0.000 |
| B-136 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-137 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-138 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-139 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-153 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-154 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |

| Land Cover Zone | % Impervious | % DCIA | % Direct | Ia Impervious [in] | Ia Pervious [in] |
|---|---|---|---|---|---|
| B-155 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-156 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| RR-3 | 0.00 | 0.00 | 0.00 | 0.000 | 0.000 |
| W11-1 | 27.00 | 27.00 | 0.00 | 0.000 | 0.000 |
| W11-7 | 24.00 | 24.00 | 0.00 | 0.000 | 0.000 |
| W12 | 42.00 | 42.00 | 0.00 | 0.000 | 0.000 |
| W13 | 28.00 | 28.00 | 0.00 | 0.000 | 0.000 |
| W14 | 27.00 | 27.00 | 0.00 | 0.000 | 0.000 |
| W17 | 20.00 | 20.00 | 0.00 | 0.000 | 0.000 |
| W18 | 16.00 | 16.00 | 0.00 | 0.000 | 0.000 |
| W20 | 22.00 | 22.00 | 0.00 | 0.000 | 0.000 |
| W21 | 42.00 | 42.00 | 0.00 | 0.000 | 0.000 |
| W24 | 31.00 | 31.00 | 0.00 | 0.000 | 0.000 |
| W24A | 19.00 | 19.00 | 0.00 | 0.000 | 0.000 |
| W25 | 37.00 | 37.00 | 0.00 | 0.100 | 0.000 |

## Simulation: 100-24 OC

Scenario: Icpr3
Run Date/Time: 9/28/2017 9:40:54 AM
Program Version: ICPR4 4.03.02.00

### General

Run Mode: Normal

| | Year | Month | Day | Hour [hr] |
|---|---|---|---|---|
| Start Time: | 0 | 0 | 0 | 0.00 |
| End Time: | 0 | 0 | 0 | 30.00 |

| | Hydrology [sec] | Surface Hydraulics [sec] |
|---|---|---|
| Min Calculation Time: | 30.00 | 0.05 |
| Max Calculation Time: | | 30.00 |

### Output Time Increments

#### Hydrology

| Year | Month | Day | Hour [hr] | Time Increment [min] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 5.00 |

#### Surface Hydraulics

| Year | Month | Day | Hour [hr] | Time Increment [min] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 15.00 |

#### Restart File

Save Restart: False

### Resources & Lookup Tables

#### Resources

Rainfall Folder: ICPR3

Unit Hydrograph Folder: ICPR3

#### Lookup Tables

Boundary Stage Set: 100-24 OC
Extern Hydrograph Set:
Curve Number Set: ICPR3

Green-Ampt Set: ICPR3
Vertical Layers Set:
Impervious Set: ICPR3

## Tolerances & Options

| | | | |
|---|---|---|---|
| Time Marching: | SAOR | IA Recovery Time: | 24.00 hr |
| Max Iterations: | 6 | | |
| Over-Relax Weight Fact: | 0.5 dec | | |
| dZ Tolerance: | 0.0010 ft | Manual Basin Rain Opt: | Global |
| Max dZ: | 1.0000 ft | | |
| Link Optimizer Tol: | 0.0001 ft | Rainfall Name: | Orange |
| | | Rainfall Amount: | 10.60 in |
| Edge Length Option: | Automatic | Storm Duration: | 24.00 hr |
| | | Dflt Damping (1D): | 0.0050 ft |
| | | Min Node Srf Area (1D): | 113 ft2 |
| | | Energy Switch (1D): | Energy |

Comment:

## Simulation: 25-24 OC

Scenario: Icpr3
Run Date/Time: 9/28/2017 9:41:58 AM
Program Version: ICPR4 4.03.02.00

## General

Run Mode: Normal

| | Year | Month | Day | Hour [hr] |
|---|---|---|---|---|
| Start Time: | 0 | 0 | 0 | 0.00 |
| End Time: | 0 | 0 | 0 | 30.00 |

| | Hydrology [sec] | Surface Hydraulics [sec] |
|---|---|---|
| Min Calculation Time: | 30.00 | 0.05 |
| Max Calculation Time: | | 30.00 |

## Output Time Increments

### Hydrology

| Year | Month | Day | Hour [hr] | Time Increment [min] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 5.00 |

### Surface Hydraulics

| Year | Month | Day | Hour [hr] | Time Increment [min] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 15.00 |

### Restart File

Save Restart: False

## Resources & Lookup Tables

## Resources

| | |
|---|---|
| Rainfall Folder: | ICPR3 |
| Unit Hydrograph Folder: | ICPR3 |

## Lookup Tables

| | |
|---|---|
| Boundary Stage Set: | 25-24 OC |
| Extern Hydrograph Set: | |
| Curve Number Set: | ICPR3 |
| Green-Ampt Set: | ICPR3 |
| Vertical Layers Set: | |
| Impervious Set: | ICPR3 |

## Tolerances & Options

| | | | |
|---|---|---|---|
| Time Marching: | SAOR | IA Recovery Time: | 24.00 hr |
| Max Iterations: | 6 | | |
| Over-Relax Weight Fact: | 0.5 dec | | |
| dZ Tolerance: | 0.0010 ft | Manual Basin Rain Opt: | Global |
| Max dZ: | 1.0000 ft | | |
| Link Optimizer Tol: | 0.0001 ft | Rainfall Name: | Orange |
| | | Rainfall Amount: | 8.60 in |
| Edge Length Option: | Automatic | Storm Duration: | 24.00 hr |
| | | Dflt Damping (1D): | 0.0050 ft |
| | | Min Node Srf Area (1D): | 113 ft2 |
| | | Energy Switch (1D): | Energy |

Comment:

Manual Basin Runoff Summary [Icpr3]

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| B-077 | 25-24 OC | 16.55 | 10.18 | 8.60 | 2.85 | 28.72 | 52 | 0.00 | 0.00 |
| B-078 | 25-24 OC | 38.66 | 9.43 | 8.60 | 5.22 | 37.76 | 72 | 0.00 | 0.00 |
| B-080 | 25-24 OC | 61.14 | 9.41 | 8.60 | 4.98 | 61.88 | 70 | 0.00 | 0.00 |
| B-081 | 25-24 OC | 27.73 | 9.17 | 8.60 | 7.39 | 18.09 | 90 | 0.00 | 0.00 |
| B-082 | 25-24 OC | 17.43 | 9.60 | 8.60 | 5.34 | 17.32 | 73 | 0.00 | 0.00 |
| B-083 | 25-24 OC | 9.22 | 9.37 | 8.60 | 5.95 | 7.88 | 78 | 0.00 | 0.00 |
| B-084 | 25-24 OC | 434.58 | 9.35 | 8.60 | 7.03 | 322.00 | 87 | 0.00 | 0.00 |
| B-085 | 25-24 OC | 20.72 | 9.18 | 8.60 | 8.24 | 13.10 | 97 | 0.00 | 0.00 |
| B-086 | 25-24 OC | 2.61 | 9.07 | 8.60 | 5.34 | 2.01 | 73 | 0.00 | 0.00 |
| B-087 | 25-24 OC | 17.00 | 9.12 | 8.60 | 6.67 | 11.44 | 84 | 0.00 | 0.00 |
| B-088 | 25-24 OC | 125.20 | 9.18 | 8.60 | 7.27 | 83.10 | 89 | 0.00 | 0.00 |
| B-089 | 25-24 OC | 21.48 | 9.07 | 8.60 | 6.19 | 14.77 | 80 | 0.00 | 0.00 |
| B-133 | 25-24 OC | 83.96 | 10.03 | 8.60 | 5.22 | 87.17 | 72 | 0.00 | 0.00 |
| B-134 | 25-24 OC | 47.00 | 9.75 | 8.60 | 5.34 | 47.29 | 73 | 0.00 | 0.00 |
| B-135 | 25-24 OC | 4.88 | 9.21 | 8.60 | 3.88 | 6.14 | 61 | 16.40 | 16.40 |
| B-136 | 25-24 OC | 80.68 | 10.18 | 8.60 | 4.62 | 97.90 | 67 | 0.00 | 0.00 |
| B-137 | 25-24 OC | 4.65 | 10.24 | 8.60 | 3.55 | 7.02 | 58 | 0.00 | 0.00 |
| B-138 | 25-24 OC | 5.19 | 10.08 | 8.60 | 2.51 | 9.35 | 49 | 0.00 | 0.00 |
| B-139 | 25-24 OC | 151.96 | 10.13 | 8.60 | 5.10 | 168.09 | 71 | 0.00 | 0.00 |
| B-153 | 25-24 OC | 40.72 | 9.50 | 8.60 | 6.67 | 33.48 | 84 | 0.00 | 0.00 |
| B-154 | 25-24 OC | 42.36 | 9.21 | 8.60 | 6.07 | 32.49 | 79 | 0.00 | 0.00 |
| B-155 | 25-24 OC | 68.66 | 10.06 | 8.60 | 5.22 | 72.01 | 72 | 0.00 | 0.00 |
| B-156 | 25-24 OC | 16.99 | 10.19 | 8.60 | 3.55 | 24.89 | 58 | 0.00 | 0.00 |
| RR-3 | 25-24 OC | 10.18 | 10.17 | 8.60 | 2.51 | 19.71 | 49 | 0.00 | 0.00 |
| W11-1 | 25-24 OC | 21.80 | 9.39 | 8.60 | 6.05 | 19.44 | 79 | 27.00 | 27.00 |
| W11-7 | 25-24 OC | 130.67 | 10.84 | 8.60 | 5.02 | 202.23 | 70 | 24.00 | 24.00 |
| W12 | 25-24 OC | 98.51 | 9.77 | 8.60 | 6.57 | 91.21 | 83 | 42.00 | 42.00 |
| W13 | 25-24 OC | 155.37 | 10.02 | 8.60 | 5.74 | 160.00 | 76 | 28.00 | 28.00 |
| W14 | 25-24 OC | 17.06 | 9.70 | 8.60 | 6.31 | 15.80 | 81 | 27.00 | 27.00 |
| W17 | 25-24 OC | 58.82 | 9.51 | 8.60 | 6.19 | 52.51 | 80 | 20.00 | 20.00 |
| W18 | 25-24 OC | 70.84 | 9.65 | 8.60 | 5.97 | 66.96 | 78 | 16.00 | 16.00 |
| W20 | 25-24 OC | 74.25 | 10.10 | 8.60 | 5.78 | 77.79 | 77 | 22.00 | 22.00 |
| W21 | 25-24 OC | 14.06 | 9.24 | 8.60 | 6.92 | 10.42 | 86 | 42.00 | 42.00 |
| W24 | 25-24 OC | 71.46 | 9.61 | 8.60 | 6.10 | 67.65 | 79 | 31.00 | 31.00 |
| W24A | 25-24 OC | 120.55 | 10.16 | 8.60 | 5.86 | 127.21 | 77 | 19.00 | 19.00 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| W25 | 25-24 OC | 107.25 | 9.52 | 8.60 | 5.23 | 117.88 | 72 | 37.00 | 37.00 |

Manual Basin Runoff Summary [Icpr3]

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| B-077 | 100-24 OC | 24.69 | 10.12 | 10.60 | 4.26 | 28.72 | 52 | 0.00 | 0.00 |
| B-078 | 100-24 OC | 52.27 | 9.38 | 10.60 | 7.03 | 37.76 | 72 | 0.00 | 0.00 |
| B-080 | 100-24 OC | 83.48 | 9.36 | 10.60 | 6.76 | 61.88 | 70 | 0.00 | 0.00 |
| B-081 | 100-24 OC | 34.79 | 9.16 | 10.60 | 9.37 | 18.09 | 90 | 0.00 | 0.00 |
| B-082 | 100-24 OC | 23.44 | 9.51 | 10.60 | 7.17 | 17.32 | 73 | 0.00 | 0.00 |
| B-083 | 100-24 OC | 12.13 | 9.35 | 10.60 | 7.83 | 7.88 | 78 | 0.00 | 0.00 |
| B-084 | 100-24 OC | 551.71 | 9.33 | 10.60 | 8.99 | 322.00 | 87 | 0.00 | 0.00 |
| B-085 | 100-24 OC | 25.59 | 9.18 | 10.60 | 10.23 | 13.10 | 97 | 0.00 | 0.00 |
| B-086 | 100-24 OC | 3.46 | 9.06 | 10.60 | 7.17 | 2.01 | 73 | 0.00 | 0.00 |
| B-087 | 100-24 OC | 21.70 | 9.11 | 10.60 | 8.61 | 11.44 | 84 | 0.00 | 0.00 |
| B-088 | 100-24 OC | 157.52 | 9.18 | 10.60 | 9.25 | 83.10 | 89 | 0.00 | 0.00 |
| B-089 | 100-24 OC | 27.76 | 9.06 | 10.60 | 8.09 | 14.77 | 80 | 0.00 | 0.00 |
| B-133 | 100-24 OC | 112.81 | 9.66 | 10.60 | 7.03 | 87.17 | 72 | 0.00 | 0.00 |
| B-134 | 100-24 OC | 63.17 | 9.55 | 10.60 | 7.17 | 47.29 | 73 | 0.00 | 0.00 |
| B-135 | 100-24 OC | 6.98 | 9.19 | 10.60 | 5.40 | 6.14 | 60 | 16.40 | 16.40 |
| B-136 | 100-24 OC | 110.79 | 10.12 | 10.60 | 6.36 | 97.90 | 67 | 0.00 | 0.00 |
| B-137 | 100-24 OC | 6.69 | 10.18 | 10.60 | 5.11 | 7.02 | 58 | 0.00 | 0.00 |
| B-138 | 100-24 OC | 7.81 | 10.04 | 10.60 | 3.83 | 9.35 | 49 | 0.00 | 0.00 |
| B-139 | 100-24 OC | 204.89 | 10.06 | 10.60 | 6.90 | 168.09 | 71 | 0.00 | 0.00 |
| B-153 | 100-24 OC | 52.34 | 9.48 | 10.60 | 8.61 | 33.48 | 84 | 0.00 | 0.00 |
| B-154 | 100-24 OC | 55.26 | 9.19 | 10.60 | 7.96 | 32.49 | 79 | 0.00 | 0.00 |
| B-155 | 100-24 OC | 92.12 | 9.78 | 10.60 | 7.03 | 72.01 | 72 | 0.00 | 0.00 |
| B-156 | 100-24 OC | 24.39 | 10.13 | 10.60 | 5.11 | 24.89 | 58 | 0.00 | 0.00 |
| RR-3 | 100-24 OC | 15.56 | 10.13 | 10.60 | 3.83 | 19.71 | 49 | 0.00 | 0.00 |
| W11-1 | 100-24 OC | 28.67 | 9.38 | 10.60 | 7.90 | 19.44 | 78 | 27.00 | 27.00 |
| W11-7 | 100-24 OC | 176.86 | 10.80 | 10.60 | 6.73 | 202.23 | 70 | 24.00 | 24.00 |
| W12 | 100-24 OC | 127.43 | 9.69 | 10.60 | 8.45 | 91.21 | 83 | 42.00 | 42.00 |
| W13 | 100-24 OC | 205.57 | 9.78 | 10.60 | 7.54 | 160.00 | 76 | 28.00 | 28.00 |
| W14 | 100-24 OC | 22.24 | 9.63 | 10.60 | 8.19 | 15.80 | 81 | 27.00 | 27.00 |
| W17 | 100-24 OC | 76.98 | 9.46 | 10.60 | 8.07 | 52.51 | 80 | 20.00 | 20.00 |
| W18 | 100-24 OC | 93.33 | 9.58 | 10.60 | 7.83 | 66.96 | 78 | 16.00 | 16.00 |
| W20 | 100-24 OC | 98.08 | 10.04 | 10.60 | 7.61 | 77.79 | 76 | 22.00 | 22.00 |
| W21 | 100-24 OC | 17.99 | 9.23 | 10.60 | 8.84 | 10.42 | 86 | 42.00 | 42.00 |
| W24 | 100-24 OC | 93.79 | 9.57 | 10.60 | 7.95 | 67.65 | 79 | 31.00 | 31.00 |
| W24A | 100-24 OC | 158.88 | 10.10 | 10.60 | 7.71 | 127.21 | 77 | 19.00 | 19.00 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| W25 | 100-24 OC | 144.02 | 9.48 | 10.60 | 6.92 | 117.88 | 71 | 37.00 | 37.00 |

Node Max Conditions w/ Times [Icpr3]

| 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] | Time to Max Stage [hr] | Time to Min/Max Delta Stage [hr] | Time to Max Total Inflow [hr] | Time to Max Total Outflow [hr] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N-077 | 25-24 OC | 71.28 | 69.72 | 0.0002 | 16.55 | 13.81 | 49270 | 10.83 | 8.10 | 10.18 | 10.84 |
| N-078 | 25-24 OC | 71.11 | 70.50 | 0.0003 | 38.66 | 33.77 | 309925 | 10.55 | 7.03 | 9.43 | 10.55 |
| N-080 | 25-24 OC | 70.41 | 69.37 | 0.0001 | 61.14 | 53.13 | 536166 | 10.59 | 7.03 | 9.41 | 10.59 |
| N-081 | 25-24 OC | 70.13 | 69.08 | 0.0001 | 54.11 | 49.09 | 526329 | 10.87 | 7.03 | 10.28 | 10.87 |
| N-082 | 25-24 OC | 70.40 | 69.24 | 0.0001 | 35.46 | 34.59 | 255975 | 10.63 | 7.03 | 10.38 | 10.63 |
| N-083 | 25-24 OC | 70.60 | 68.20 | 0.0001 | 47.36 | 47.32 | 35995 | 10.22 | 3.70 | 10.18 | 10.22 |
| N-084 | 25-24 OC | 67.05 | 66.04 | 0.0002 | 613.99 | 567.46 | 4359162 | 10.66 | 7.03 | 9.79 | 10.65 |
| N-085 | 25-24 OC | 67.12 | 66.15 | 0.0002 | 38.07 | 32.17 | 424211 | 10.97 | 7.03 | 10.00 | 11.07 |
| N-086 | 25-24 OC | 71.34 | 70.07 | 0.0004 | 2.61 | 2.19 | 27897 | 9.64 | 7.03 | 9.07 | 9.64 |
| N-087 | 25-24 OC | 70.05 | 68.31 | 0.0001 | 17.75 | 17.01 | 139054 | 9.69 | 7.01 | 9.36 | 9.69 |
| N-088 | 25-24 OC | 67.18 | 66.06 | 0.0000 | 140.89 | 138.94 | 1253898 | 10.60 | 7.01 | 9.20 | 9.34 |
| N-089 | 25-24 OC | 70.36 | 66.61 | 0.0006 | 21.48 | 18.36 | 49163 | 9.56 | 6.99 | 9.07 | 9.59 |
| N-133 | 25-24 OC | 70.30 | 68.49 | 0.0010 | 124.49 | 123.40 | 325036 | 11.46 | 6.58 | 11.29 | 11.46 |
| N-134 | 25-24 OC | 71.94 | 71.00 | 0.0001 | 47.00 | 19.02 | 1009379 | 13.33 | 7.03 | 9.75 | 13.33 |
| N-135 | 25-24 OC | 71.71 | 70.79 | 0.0001 | 4.88 | 3.20 | 75876 | 13.49 | 3.70 | 9.21 | 13.49 |
| N-136 | 25-24 OC | 70.78 | 69.61 | 0.0001 | 80.68 | 60.48 | 672921 | 11.63 | 7.03 | 10.18 | 11.63 |
| N-137 | 25-24 OC | 71.41 | 70.64 | 0.0001 | 4.65 | 3.47 | 72847 | 11.60 | 10.47 | 10.24 | 11.60 |
| N-138 | 25-24 OC | 72.20 | 71.49 | 0.0001 | 5.19 | 4.52 | 49775 | 10.39 | 9.05 | 10.07 | 10.39 |
| N-139 | 25-24 OC | 66.34 | 64.84 | 0.0001 | 155.80 | 150.07 | 1561811 | 10.57 | 7.03 | 10.24 | 10.57 |
| N-153 | 25-24 OC | 67.43 | 66.45 | 0.0004 | 82.22 | 74.03 | 507011 | 10.38 | 7.03 | 9.41 | 10.38 |
| N-154 | 25-24 OC | 68.06 | 66.83 | 0.0002 | 42.36 | 41.72 | 277922 | 9.34 | 7.03 | 9.21 | 9.34 |
| N-155 | 25-24 OC | 66.22 | 66.22 | 0.0005 | 128.91 | 109.88 | 933845 | 10.99 | 7.03 | 10.29 | 10.99 |
| N-156 | 25-24 OC | 66.48 | 65.45 | 0.0001 | 112.55 | 109.78 | 264017 | 11.27 | 10.47 | 10.94 | 11.27 |
| RR-3 | 25-24 OC | 76.00 | 74.28 | 0.0000 | 10.18 | 10.13 | 32526 | 10.24 | 8.10 | 10.17 | 10.24 |
| TW-N-075 | 25-24 OC | 88.30 | 69.80 | 0.0003 | 32.82 | 0.00 | 0 | 10.00 | 7.02 | 10.55 | 0.00 |
| TW-N-090 | 25-24 OC | 73.95 | 65.90 | 0.0006 | 22.66 | 0.58 | 0 | 9.25 | 7.01 | 10.27 | 0.00 |
| TW-N-091 | 25-24 OC | 66.34 | 64.80 | 0.0000 | 555.13 | 0.07 | 0 | 0.00 | 0.00 | 10.65 | 27.04 |
| TW-N-131 | 25-24 OC | 81.41 | 66.30 | 0.0006 | 135.53 | 3.44 | 0 | 13.50 | 7.01 | 11.43 | 16.00 |
| TW-N-141 | 25-24 OC | 71.51 | 64.00 | 0.0000 | 150.07 | 0.00 | 0 | 0.00 | 0.00 | 10.57 | 0.00 |
| TW-N-157 | 25-24 OC | 75.44 | 64.10 | 0.0012 | 109.78 | 0.00 | 0 | 15.50 | 6.99 | 11.27 | 0.00 |
| TW-N-158 | 25-24 OC | 75.26 | 65.60 | 0.0003 | 11.56 | 0.16 | 0 | 10.00 | 7.02 | 10.96 | 5.92 |
| TW-N29 | 25-24 OC | 76.00 | 75.00 | 0.0000 | 213.41 | 0.00 | 0 | 0.00 | 0.00 | 10.53 | 0.00 |
| TW-W11-7 | 25-24 OC | 71.30 | 71.20 | 0.0000 | 228.94 | 0.00 | 0 | 0.00 | 0.00 | 10.63 | 0.00 |
| TW-W22 | 25-24 OC | 75.00 | 70.00 | 0.0000 | 307.47 | 0.00 | 0 | 0.00 | 0.00 | 10.63 | 0.00 |

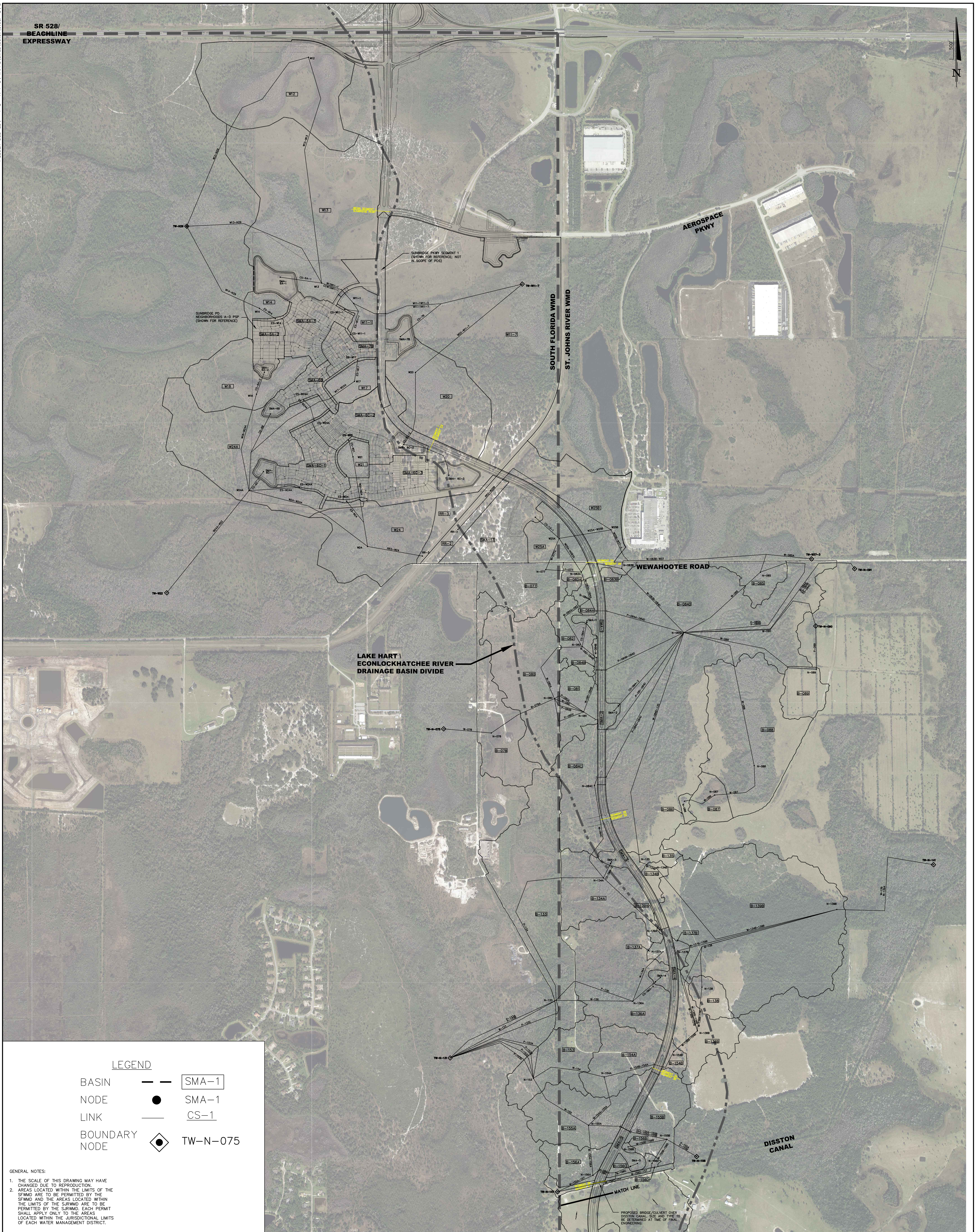
| Node Name | Sim Name | Warning Stage [ft] | Max Stage [ft] | Min/Max Delta Stage [ft] | Max Total Inflow [cfs] | Max Total Outflow [cfs] | Max Surface Area [ft2] | Time to Max Stage [hr] | Time to Min/Max Delta Stage [hr] | Time to Max Total Inflow [hr] | Time to Max Total Outflow [hr] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TW-W37-3 | 25-24 OC | 67.00 | 66.20 | 0.0001 | 120.06 | 20.02 | 0 | 10.00 | 4.00 | 10.13 | 10.00 |
| W11-1 | 25-24 OC | 76.00 | 74.06 | 0.0000 | 29.99 | 29.93 | 281018 | 10.27 | 3.08 | 10.19 | 10.27 |
| W12 | 25-24 OC | 83.00 | 81.44 | 0.0001 | 98.51 | 78.15 | 2156940 | 11.22 | 7.03 | 9.77 | 11.22 |
| W13 | 25-24 OC | 76.00 | 75.06 | 0.0000 | 236.00 | 235.23 | 1451668 | 10.53 | 2.19 | 10.43 | 10.53 |
| W14 | 25-24 OC | 77.00 | 75.31 | 0.0001 | 17.06 | 16.59 | 283410 | 10.35 | 7.03 | 9.70 | 10.35 |
| W17 | 25-24 OC | 75.00 | 73.59 | 0.0002 | 71.73 | 65.27 | 680114 | 10.53 | 7.03 | 9.56 | 10.53 |
| W18 | 25-24 OC | 75.00 | 73.40 | 0.0001 | 81.52 | 80.17 | 453154 | 10.40 | 7.03 | 10.13 | 10.40 |
| W20 | 25-24 OC | 75.00 | 73.27 | 0.0001 | 74.25 | 70.59 | 1023074 | 10.63 | 3.70 | 10.10 | 10.63 |
| W21 | 25-24 OC | 75.00 | 74.21 | 0.0001 | 14.06 | 13.07 | 223824 | 9.80 | 3.70 | 9.24 | 9.80 |
| W24 | 25-24 OC | 74.00 | 72.59 | 0.0001 | 80.87 | 57.92 | 1346254 | 11.49 | 7.03 | 10.01 | 11.49 |
| W24A | 25-24 OC | 75.00 | 71.20 | 0.0000 | 307.53 | 307.47 | 268203 | 10.63 | 0.98 | 10.61 | 10.63 |
| W25 | 25-24 OC | 73.00 | 69.19 | 0.0001 | 107.25 | 106.21 | 904176 | 10.08 | 3.70 | 9.52 | 10.08 |

Node Max Conditions w/ Times [Icpr3]

| 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] | Time to Max Stage [hr] | Time to Min/Max Delta Stage [hr] | Time to Max Total Inflow [hr] | Time to Max Total Outflow [hr] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| N-077 | 25-24 OC | 71.28 | 67.70 | 0.0001 | 0.00 | 0.00 | 246 | 2.01 | 0.73 | 1.99 | 0.00 |
| N-078 | 25-24 OC | 71.11 | 69.65 | 0.0000 | 0.00 | 0.00 | 27530 | 0.00 | 0.00 | 0.00 | 0.00 |
| N-080 | 25-24 OC | 70.41 | 68.58 | 0.0000 | 0.00 | 0.00 | 288756 | 0.00 | 0.00 | 0.00 | 0.00 |
| N-081 | 25-24 OC | 70.13 | 68.58 | 0.0000 | 0.00 | 0.00 | 391117 | 0.00 | 0.00 | 0.00 | 0.00 |
| N-082 | 25-24 OC | 70.40 | 68.50 | 0.0000 | 0.00 | 0.00 | 131725 | 0.00 | 0.00 | 0.00 | 0.00 |
| N-083 | 25-24 OC | 70.60 | 67.70 | 0.0000 | 0.03 | 0.00 | 19599 | 2.01 | 0.73 | 0.00 | 1.99 |
| N-084 | 25-24 OC | 67.05 | 65.30 | 0.0000 | 0.00 | 0.00 | 987110 | 0.00 | 0.00 | 0.00 | 0.00 |
| N-085 | 25-24 OC | 67.12 | 65.30 | 0.0000 | 0.00 | 0.00 | 257253 | 2.01 | 2.01 | 2.01 | 0.00 |
| N-086 | 25-24 OC | 71.34 | 69.00 | 0.0000 | 0.00 | 0.00 | 8677 | 0.00 | 0.00 | 0.00 | 0.00 |
| N-087 | 25-24 OC | 70.05 | 68.00 | 0.0000 | 0.00 | 0.00 | 116218 | 0.00 | 0.00 | 0.00 | 0.00 |
| N-088 | 25-24 OC | 67.18 | 66.00 | 0.0000 | 0.00 | 0.00 | 1200984 | 0.00 | 0.00 | 0.00 | 0.00 |
| N-089 | 25-24 OC | 70.36 | 65.00 | 0.0001 | 0.58 | 0.00 | 710 | 1.27 | 0.01 | 0.00 | 0.51 |
| N-133 | 25-24 OC | 70.30 | 65.87 | 0.0000 | 0.00 | 0.00 | 113 | 0.00 | 0.00 | 0.00 | 0.00 |
| N-134 | 25-24 OC | 71.94 | 69.98 | 0.0000 | 0.00 | 0.00 | 271257 | 0.00 | 0.00 | 0.00 | 0.00 |
| N-135 | 25-24 OC | 71.71 | 70.00 | 0.0000 | 0.00 | 0.00 | 49624 | 0.00 | 0.00 | 0.00 | 0.00 |
| N-136 | 25-24 OC | 70.78 | 68.17 | 0.0000 | 0.00 | 0.00 | 314726 | 0.00 | 0.00 | 0.00 | 0.00 |
| N-137 | 25-24 OC | 71.41 | 70.00 | 0.0000 | 0.00 | 0.00 | 51810 | 0.00 | 0.00 | 0.00 | 0.00 |
| N-138 | 25-24 OC | 72.20 | 70.50 | 0.0000 | 0.00 | 0.00 | 19079 | 0.00 | 0.00 | 0.00 | 0.00 |
| N-139 | 25-24 OC | 66.34 | 64.50 | 0.0000 | 0.00 | 0.00 | 797287 | 0.00 | 0.00 | 0.00 | 0.00 |
| N-153 | 25-24 OC | 67.43 | 64.71 | 0.0000 | 0.00 | 0.00 | 88369 | 0.00 | 0.00 | 0.00 | 0.00 |
| N-154 | 25-24 OC | 68.06 | 66.50 | 0.0000 | 0.00 | 0.00 | 215152 | 0.00 | 0.00 | 0.00 | 0.00 |
| N-155 | 25-24 OC | 66.22 | 64.71 | 0.0000 | 0.00 | 0.05 | 25221 | 0.00 | 0.73 | 0.00 | 0.00 |
| N-156 | 25-24 OC | 66.48 | 64.00 | 0.0000 | 0.00 | 0.00 | 159691 | 0.00 | 0.00 | 0.00 | 0.00 |
| RR-3 | 25-24 OC | 76.00 | 74.00 | 0.0000 | 0.00 | 0.00 | 18295 | 0.00 | 0.00 | 0.00 | 0.00 |
| TW-N-075 | 25-24 OC | 88.30 | 69.00 | 0.0000 | 0.00 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 |
| TW-N-090 | 25-24 OC | 73.95 | 65.00 | 0.0000 | 0.00 | 0.58 | 0 | 0.00 | 0.00 | 0.51 | 0.00 |
| TW-N-091 | 25-24 OC | 66.34 | 64.80 | 0.0000 | 0.00 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 |
| TW-N-131 | 25-24 OC | 81.41 | 63.20 | 0.0000 | 0.00 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 |
| TW-N-141 | 25-24 OC | 71.51 | 64.00 | 0.0000 | 0.00 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 |
| TW-N-157 | 25-24 OC | 75.44 | 61.00 | 0.0000 | 0.00 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 |
| TW-N-158 | 25-24 OC | 75.26 | 64.70 | 0.0000 | 0.05 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 |
| TW-N29 | 25-24 OC | 76.00 | 75.00 | 0.0000 | 0.54 | 0.00 | 0 | 0.00 | 0.00 | 2.01 | 0.00 |
| TW-W11-7 | 25-24 OC | 71.30 | 71.20 | 0.0000 | 0.39 | 0.00 | 0 | 0.00 | 0.00 | 2.01 | 0.00 |
| TW-W22 | 25-24 OC | 75.00 | 70.00 | 0.0000 | 0.40 | 0.00 | 0 | 0.00 | 0.00 | 1.85 | 0.00 |

| 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] | Time to Max Stage [hr] | Time to Min/Max Delta Stage [hr] | Time to Max Total Inflow [hr] | Time to Max Total Outflow [hr] |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TW-W37-3 | 25-24 OC | 67.00 | 65.50 | 0.0000 | 0.00 | 0.00 | 0 | 0.00 | 0.00 | 0.00 | 0.00 |
| W11-1 | 25-24 OC | 76.00 | 74.00 | 0.0000 | 0.15 | 0.00 | 264774 | 2.01 | 2.01 | 2.01 | 0.00 |
| W12 | 25-24 OC | 83.00 | 81.02 | 0.0000 | 0.70 | 0.00 | 1699550 | 2.01 | 2.01 | 2.01 | 0.00 |
| W13 | 25-24 OC | 76.00 | 75.00 | 0.0000 | 0.88 | 0.54 | 1388421 | 2.01 | 2.01 | 2.01 | 2.01 |
| W14 | 25-24 OC | 77.00 | 75.10 | 0.0000 | 0.08 | 0.00 | 232303 | 2.01 | 2.01 | 2.01 | 0.00 |
| W17 | 25-24 OC | 75.00 | 73.00 | 0.0000 | 0.25 | 0.00 | 354852 | 2.01 | 2.01 | 2.01 | 0.00 |
| W18 | 25-24 OC | 75.00 | 73.00 | 0.0000 | 0.23 | 0.00 | 302782 | 2.01 | 2.01 | 2.01 | 0.00 |
| W20 | 25-24 OC | 75.00 | 73.00 | 0.0000 | 0.29 | 0.00 | 811785 | 2.01 | 2.01 | 2.01 | 0.00 |
| W21 | 25-24 OC | 75.00 | 74.00 | 0.0000 | 0.16 | 0.00 | 197978 | 2.01 | 2.01 | 2.01 | 0.00 |
| W24 | 25-24 OC | 74.00 | 71.94 | 0.0000 | 0.45 | 0.00 | 788581 | 2.01 | 2.01 | 2.01 | 0.00 |
| W24A | 25-24 OC | 75.00 | 71.10 | 0.0000 | 0.37 | 0.40 | 214619 | 1.85 | 0.98 | 2.01 | 1.85 |
| W25 | 25-24 OC | 73.00 | 69.00 | 0.0000 | 0.00 | 0.03 | 746618 | 0.00 | 0.73 | 0.00 | 0.00 |

# APPENDIX C
# POST-DEVELOPMENT ROUTING ANALYSIS




LEGEND

| | | |
|---|---|---|
| BASIN | — — | SMA–1 |
| NODE | ● | SMA–1 |
| LINK | —— | CS–1 |
| BOUNDARY NODE | ◈ | TW–N–075 |

GENERAL NOTES:

1. THE SCALE OF THIS DRAWING MAY HAVE CHANGED DUE TO REPRODUCTION.
2. AREAS LOCATED WITHIN THE LIMITS OF THE SFWMD ARE TO BE PERMITTED BY THE SFWMD AND THE AREAS LOCATED WITHIN THE LIMITS OF THE SJRWMD ARE TO BE PERMITTED BY THE SJRWMD. EACH PERMIT SHALL APPLY ONLY TO THE AREAS LOCATED WITHIN THE JURISDICTIONAL LIMITS OF EACH WATER MANAGEMENT DISTRICT.

DRAWING: POST–DEV BASIN

SHEET: 1 OF 2

SUNBRIDGE PARKWAY PDS (SEGMENTS 2–4)
ORANGE COUNTY, FL
POST–DEVELOPMENT BASIN AND NODAL MAP

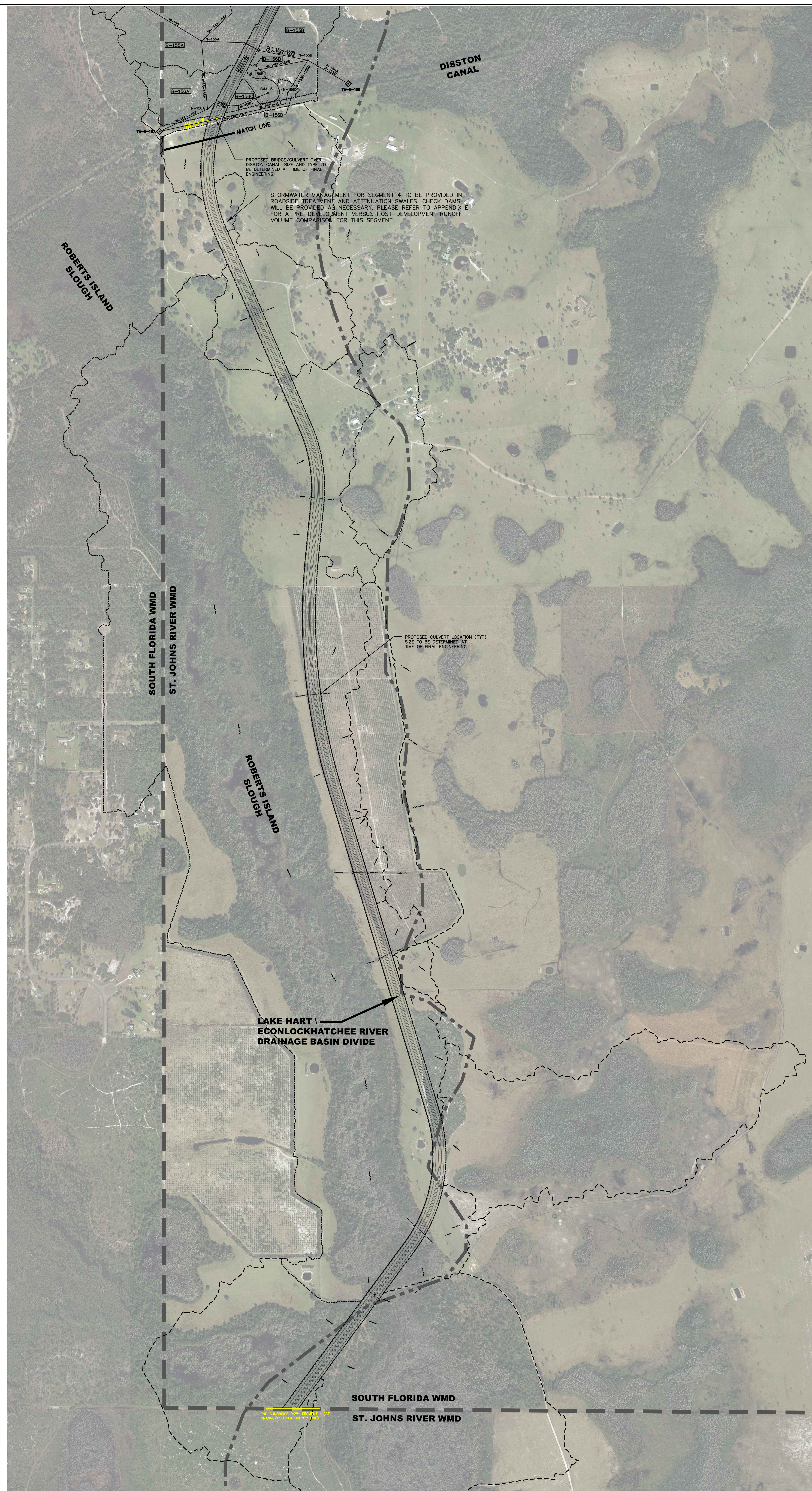
DONALD W. McINTOSH ASSOCIATES, INC.
ENGINEERS PLANNERS SURVEYORS
2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068

| DRAWN BY: | DESIGNED BY: | CHECKED BY: | SCALE | JOB NUMBER |
|---|---|---|---|---|
| CDH | CDH | JTT | 1"=500' | 15152 |
| DATE: 9/27/17 | DATE: 9/27/17 | DATE: 9/27/17 | | |

| NO. | DATE | DESCRIPTION | CHK. |
|---|---|---|---|
| | | REVISIONS | |

DONALD W. McINTOSH ASSOCIATES, INC. CERTIFICATE OF AUTHORIZATION NO. 68

DATE:




## LEGEND

| | | |
|---|---|---|
| BASIN | — — | SMA–1 |
| NODE | ● | SMA–1 |
| LINK | —— | CS–1 |
| BOUNDARY NODE | ◈ | TW–N–075 |

GENERAL NOTES:

1. THE SCALE OF THIS DRAWING MAY HAVE CHANGED DUE TO REPRODUCTION.
2. AREAS LOCATED WITHIN THE LIMITS OF THE SFWMD ARE TO BE PERMITTED BY THE SFWMD AND THE AREAS LOCATED WITHIN THE LIMITS OF THE SJRWMD ARE TO BE PERMITTED BY THE SJRWMD. EACH PERMIT SHALL APPLY ONLY TO THE AREAS LOCATED WITHIN THE JURISDICTIONAL LIMITS OF EACH WATER MANAGEMENT DISTRICT.

| | |
|---|---|
| DRAWING | POST–DEV BASIN |
| SHEET | 2 OF 2 |

SUNBRIDGE PARKWAY PDS (SEGMENTS 2–4)
ORANGE COUNTY, FL
POST–DEVELOPMENT BASIN AND NODAL MAP

**DONALD W. MCINTOSH ASSOCIATES, INC.**
ENGINEERS PLANNERS SURVEYORS
2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068

| DRAWN BY: CDH | DESIGNED BY: CDH | CHECKED BY: JTT | SCALE | JOB NUMBER |
|---|---|---|---|---|
| DATE: 9/27/17 | DATE: 9/27/17 | DATE: 9/27/17 | 1"=500' | 15152 |

| NO. | DATE | DESCRIPTION | CHK. |
|---|---|---|---|
| | | REVISIONS | |

DONALD W. McINTOSH ASSOCIATES, INC. CERTIFICATE OF AUTHORIZATION NO. 68

DATE:

F:\Proj2015\15152\EDWG\Exhibits\Sunbridge Parkway\SP-PDS-XPOST.dwg

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-077** |
| **Receiving Node:** | **N-077** |
| **Basin Area:** | **28.71 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 8.55 | | 8.55 | 333 |
| Pasture (Good) | D | 80 | 8.42 | | 8.42 | 674 |
| Wetlands | D | 98 | 1.69 | | 1.69 | 166 |
| Woods-Grass Comb. (Good) | A | 32 | 9.83 | | 9.83 | 315 |
| Woods-Grass Comb. (Good) | D | 79 | 0.22 | | 0.22 | 17 |
| Totals: | | | 28.71 | - | 28.71 | 1505 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **52** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

**Equations**

Sheet Flow: $T_t = \dfrac{0.007(nL)^{0.8}}{(4.8)^{0.5}\,(S^{0.4}/100)}$ where: $L \leq 100$ ft.; S = slope (%); n = Manning's Roughness Coeff.

Shallow Concentrated Flow: $T_t = \dfrac{L}{60V}$ where: Unpaved: $V=16.1345\,(S)^{0.5}$; Paved: $V=20.3282\,(S)^{0.5}$

Channel Flow: $T_t = \dfrac{L}{60V}$ where: V=2.5 fps (assumed)

**Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 0.20 | - | 29.3 |
| Shallow Conc. (Unpaved) | 850 | | 0.65 | 1.30 | 10.9 |

**Time of Conc. = 40 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-078** |
| **Receiving Node:** | **N-078** |
| **Basin Area:** | **37.77 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 4.86 | | 4.86 | 190 |
| Pasture (Good) | D | 80 | 30.76 | | 30.76 | 2461 |
| Woods-Grass Comb. (Good) | A | 32 | 2.15 | | 2.15 | 69 |
| Totals: | | | 37.77 | - | 37.77 | 2719 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **72** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 0.26 | - | 26.4 |
| Shallow Conc. (Unpaved) | 860 | | 0.26 | 0.82 | 17.4 |

**Time of Conc. = 44 Minutes**

| | |
|---|---|
| **Basin:** | **B-080** |
| **Receiving Node:** | **N-080** |
| **Basin Area:** | **61.88 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 17.12 | | 17.12 | 668 |
| Pasture (Good) | D | 80 | 36.77 | | 36.77 | 2942 |
| Wetlands | D | 98 | 6.87 | | 6.87 | 673 |
| Woods-Grass Comb. (Good) | A | 32 | 1.12 | | 1.12 | 36 |
| Totals: | | | 61.88 | - | 61.88 | 4318 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **70** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 0.20 | - | 29.3 |
| Shallow Conc. (Unpaved) | 850 | | 0.50 | 1.14 | 12.4 |

**Time of Conc. = 42 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-081** |
| **Receiving Node:** | **N-081** |
| **Basin Area:** | **18.08 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | D | 80 | 8.09 | | 8.09 | 647 |
| Wetlands | D | 98 | 9.99 | | 9.99 | 979 |
| Totals: | | | 18.08 | - | 18.08 | 1626 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **90** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.69 | - | 26.8 |
| Shallow Conc. (Unpaved) | 410 | | 0.69 | 1.34 | 5.1 |

**Time of Conc. = 32 Minutes**

| | |
|---|---|
| **Basin:** | **B-082** |
| **Receiving Node:** | **N-082** |
| **Basin Area:** | **17.32 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 4.68 | | 4.68 | 183 |
| Pasture (Good) | D | 80 | 8.74 | | 8.74 | 699 |
| Wetlands | D | 98 | 3.90 | | 3.90 | 382 |
| Totals: | | | 17.32 | - | 17.32 | 1264 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **73** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.20 | - | 44.0 |
| Shallow Conc. (Unpaved) | 515 | | 0.83 | 1.47 | 5.8 |

**Time of Conc. = 50 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-083A** |
| **Receiving Node:** | **N-083A** |
| **Basin Area:** | **4.81 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 0.74 | | 0.74 | 29 |
| Pasture (Good) | D | 80 | 4.00 | | 4.00 | 320 |
| Wetlands | D | 98 | 0.07 | | 0.07 | 7 |
| Totals: | | | 4.81 | - | 4.81 | 356 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **74** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.37 | - | 34.4 |
| Shallow Conc. (Unpaved) | 555 | | 0.37 | 0.98 | 9.4 |

**Time of Conc. = 44 Minutes**

| | |
|---|---|
| **Basin:** | **B-083B** |
| **Receiving Node:** | **N-083B** |
| **Basin Area:** | **2.35 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | D | 80 | 0.85 | | 0.85 | 68 |
| Wetlands | D | 98 | 1.03 | | 1.03 | 101 |
| Woods (Good) | D | 77 | 0.47 | | 0.47 | 36 |
| Totals: | | | 2.35 | - | 2.35 | 205 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **87** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 0.51 | - | 13.8 |
| Shallow Conc. (Unpaved) | 260 | | 0.45 | 1.08 | 4.0 |

**Time of Conc. = 18 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-084A** |
| **Receiving Node:** | **N-084A** |
| **Basin Area:** | **4.84 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 2.65 | | 2.65 | 103 |
| Pasture (Good) | D | 80 | 2.19 | | 2.19 | 175 |
| Totals: | | | 4.84 | - | 4.84 | 279 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **58** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.50 | - | 30.5 |
| Shallow Conc. (Unpaved) | 350 | | 0.50 | 1.14 | 5.1 |

**Time of Conc. = 36 Minutes**

| | |
|---|---|
| **Basin:** | **B-084B** |
| **Receiving Node:** | **N-084B** |
| **Basin Area:** | **1.27 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | D | 80 | 1.27 | | 1.27 | 102 |
| Totals: | | | 1.27 | - | 1.27 | 102 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **80** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.39 | - | 33.7 |
| Shallow Conc. (Unpaved) | 40 | | 0.91 | 1.54 | 0.4 |

**Time of Conc. = 34 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-084C** |
| **Receiving Node:** | **N-084C** |
| **Basin Area:** | **36.10 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 5.00 | | 5.00 | 365 |
| Pasture (Good) | A | 39 | 0.58 | | 0.58 | 23 |
| Pasture (Good) | A | 39 | 18.36 | | 18.36 | 716 |
| Wetlands | D | 98 | 12.16 | | 12.16 | 1192 |
| Totals: | | | 36.10 | - | 36.10 | 2295 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **64** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.38 | - | 34.1 |
| Shallow Conc. (Unpaved) | 455 | | 0.54 | 1.19 | 6.4 |

**Time of Conc. = 40 Minutes**

| | |
|---|---|
| **Basin:** | **B-084D** |
| **Receiving Node:** | **N-084D** |
| **Basin Area:** | **259.39 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 20 | Immokalee Fine Sand | B/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 25.13 | | 25.13 | 754 |
| Pasture (Good) | A | 39 | 3.68 | | 3.68 | 144 |
| Pasture (Good) | D | 80 | 67.80 | | 67.80 | 5424 |
| Wetlands | D | 98 | 140.50 | | 140.50 | 13769 |
| Woods (Good) | D | 77 | 22.28 | | 22.28 | 1716 |
| Totals: | | | 259.39 | - | 259.39 | 21806 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **84** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 0.79 | - | 11.6 |
| Shallow Conc. (Unpaved) | 1145 | | 0.32 | 0.91 | 20.9 |

**Time of Conc. = 33 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-085** |
| **Receiving Node:** | **N-085** |
| **Basin Area:** | **13.10 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 37 | St. Johns Fine Sand | B/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Wetlands | D | 98 | 12.78 | | 12.78 | 1252 |
| Woods (Good) | D | 77 | 0.32 | | 0.32 | 25 |
| Totals: | | | 13.10 | - | 13.10 | 1277 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **97** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.43 | - | 32.4 |
| Shallow Conc. (Unpaved) | 245 | | 0.43 | 1.06 | 3.9 |

**Time of Conc. = 36 Minutes**

| | |
|---|---|
| **Basin:** | **B-086** |
| **Receiving Node:** | **N-086** |
| **Basin Area:** | **2.01 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 0.35 | | 0.35 | 14 |
| Pasture (Good) | D | 80 | 1.66 | | 1.66 | 133 |
| Totals: | | | 2.01 | - | 2.01 | 146 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **73** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 0.50 | - | 13.9 |
| Shallow Conc. (Unpaved) | 200 | | 0.50 | 1.14 | 2.9 |

**Time of Conc. = 17 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-087** |
| **Receiving Node:** | **N-087** |
| **Basin Area:** | **11.44 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 0.58 | | 0.58 | 23 |
| Pasture (Good) | D | 80 | 7.05 | | 7.05 | 564 |
| Wetlands | D | 98 | 3.81 | | 3.81 | 373 |
| Totals: | | | 11.44 | - | 11.44 | 960 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **84** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 0.20 | - | 20.1 |
| Shallow Conc. (Unpaved) | 350 | | 0.66 | 1.31 | 4.5 |

**Time of Conc. = 25 Minutes**

| | |
|---|---|
| **Basin:** | **B-088** |
| **Receiving Node:** | **N-088** |
| **Basin Area:** | **83.11 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | D | 80 | 40.64 | | 40.64 | 3251 |
| Wetlands | D | 98 | 41.67 | | 41.67 | 4084 |
| Woods (Good) | D | 77 | 0.80 | | 0.80 | 62 |
| Totals: | | | 83.11 | - | 83.11 | 7396 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **89** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 0.28 | - | 17.6 |
| Shallow Conc. (Unpaved) | 800 | | 0.28 | 0.85 | 15.6 |

**Time of Conc. = 33 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-089** |
| **Receiving Node:** | **N-089** |
| **Basin Area:** | **14.77 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | D | 80 | 14.77 | | 14.77 | 1182 |
| Totals: | | | 14.77 | - | 14.77 | 1182 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **80** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 0.49 | - | 14.0 |
| Shallow Conc. (Unpaved) | 305 | | 0.49 | 1.13 | 4.5 |

**Time of Conc. = 19 Minutes**

| | |
|---|---|
| **Basin:** | **B-134A** |
| **Receiving Node:** | **N-134A** |
| **Basin Area:** | **39.01 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 40 | Samsula Muck | A/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 1.42 | | 1.42 | 43 |
| Brush (Good) | D | 73 | 20.21 | | 20.21 | 1475 |
| Pasture (Good) | A | 39 | 2.45 | | 2.45 | 96 |
| Pasture (Good) | D | 80 | 1.21 | | 1.21 | 97 |
| Wetlands | D | 98 | 13.72 | | 13.72 | 1345 |
| Totals: | | | 39.01 | - | 39.01 | 3055 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **78** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 0.19 | - | 29.9 |
| Shallow Conc. (Unpaved) | 930 | | 0.19 | 0.70 | 22.0 |

**Time of Conc. = 52 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-134B** |
| **Receiving Node:** | **N-134B** |
| **Basin Area:** | **4.21 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |
| 54 | Zolfo Fine Sand | A |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 0.19 | | 0.19 | 6 |
| Brush (Good) | D | 73 | 0.01 | | 0.01 | 1 |
| Pasture (Good) | A | 39 | 4.01 | | 4.01 | 156 |
| Totals: | | | 4.21 | - | 4.21 | 163 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **39** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 0.30 | - | 17.1 |
| Shallow Conc. (Unpaved) | 345 | | 0.33 | 0.93 | 6.2 |

**Time of Conc. = 23 Minutes**

| | |
|---|---|
| **Basin:** | **B-135** |
| **Receiving Node:** | **N-135** |
| **Basin Area:** | **4.68 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |
| 54 | Zolfo Fine Sand | A |
| 99 | Water | N/A |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 0.47 | | 0.47 | 14 |
| Brush (Good) | D | 73 | 0.02 | | 0.02 | 1 |
| Pasture (Good) | A | 39 | 2.72 | | 2.72 | 106 |
| Pasture (Good) | D | 80 | 0.73 | | 0.73 | 58 |
| Water Surface | N/A | 98 | | 0.74 | 0.74 | 0 |
| Totals: | | | 3.94 | 0.74 | 4.68 | 180 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **46** |
| **Composite DCIA =** | **16%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 0.27 | - | 17.8 |
| Shallow Conc. (Unpaved) | 445 | | 0.27 | 0.84 | 8.8 |

**Time of Conc. = 27 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-136A** |
| **Receiving Node:** | **N-136A** |
| **Basin Area:** | **65.85 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 3.03 | | 3.03 | 91 |
| Brush (Good) | D | 73 | 41.41 | | 41.41 | 3023 |
| Pasture (Good) | A | 39 | 2.97 | | 2.97 | 116 |
| Pasture (Good) | D | 80 | 2.62 | | 2.62 | 210 |
| Wetlands | D | 98 | 15.82 | | 15.82 | 1550 |
| Totals: | | | 65.85 | - | 65.85 | 4990 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **76** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 0.20 | - | 29.3 |
| Shallow Conc. (Unpaved) | 1360 | | 0.20 | 0.72 | 31.4 |

**Time of Conc. = 61 Minutes**

| | |
|---|---|
| **Basin:** | **B-136B** |
| **Receiving Node:** | **N-136B** |
| **Basin Area:** | **25.31 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 2 | Archbold Fine Sand, 0 to 5% slopes | A |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |
| 54 | Zolfo Fine Sand | A |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 0.22 | | 0.22 | 7 |
| Brush (Good) | D | 73 | 0.23 | | 0.23 | 17 |
| Pasture (Good) | A | 39 | 22.06 | | 22.06 | 860 |
| Pasture (Good) | D | 80 | 1.54 | | 1.54 | 123 |
| Woods (Good) | A | 30 | 1.26 | | 1.26 | 38 |
| Totals: | | | 25.31 | - | 25.31 | 1045 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **41** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.11 | - | 55.9 |
| Shallow Conc. (Unpaved) | 1350 | | 0.30 | 0.88 | 25.5 |

**Time of Conc. = 81 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-137A** |
| **Receiving Node:** | **N-137A** |
| **Basin Area:** | **2.54 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 1.47 | | 1.47 | 44 |
| Brush (Good) | D | 73 | 0.06 | | 0.06 | 4 |
| Pasture (Good) | A | 39 | 0.98 | | 0.98 | 38 |
| Pasture (Good) | D | 80 | 0.02 | | 0.02 | 2 |
| Wetlands | D | 98 | 0.01 | | 0.01 | 1 |
| Totals: | | | 2.54 | - | 2.54 | 89 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **35** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 0.77 | - | 17.1 |
| Shallow Conc. (Unpaved) | 115 | | 1.37 | 1.89 | 1.0 |

**Time of Conc. = 18 Minutes**

| | |
|---|---|
| **Basin:** | **B-137B** |
| **Receiving Node:** | **N-137B** |
| **Basin Area:** | **2.39 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 40 | Samsula Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 0.11 | | 0.11 | 3 |
| Brush (Good) | D | 73 | 1.71 | | 1.71 | 125 |
| Wetlands | D | 98 | 0.57 | | 0.57 | 56 |
| Totals: | | | 2.39 | - | 2.39 | 184 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **77** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.24 | - | 40.9 |
| Shallow Conc. (Unpaved) | 140 | | 0.38 | 0.99 | 2.3 |
| Shallow Conc. (Unpaved) | 30 | | 3.00 | 2.79 | 0.2 |

**Time of Conc. = 43 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-138** |
| **Receiving Node:** | **N-138** |
| **Basin Area:** | **9.35 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 2 | Archbold Fine Sand, 0 to 5% slopes | A |
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |
| 54 | Zolfo Fine Sand | A |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 0.96 | | 0.96 | 29 |
| Brush (Good) | D | 73 | 1.79 | | 1.79 | 131 |
| Pasture (Good) | A | 39 | 5.84 | | 5.84 | 228 |
| Pasture (Good) | D | 80 | 0.15 | | 0.15 | 12 |
| Wetlands | D | 98 | 0.53 | | 0.53 | 52 |
| Woods (Good) | A | 30 | 0.08 | | 0.08 | 2 |
| Totals: | | | 9.35 | - | 9.35 | 454 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **49** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 0.61 | - | 18.7 |
| Shallow Conc. (Unpaved) | 560 | | 0.61 | 1.26 | 7.4 |

**Time of Conc. = 26 Minutes**

| | |
|---|---|
| **Basin:** | **B-139A** |
| **Receiving Node:** | **N-139A** |
| **Basin Area:** | **0.36 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 0.03 | | 0.03 | 1 |
| Pasture (Good) | A | 39 | 0.33 | | 0.33 | 13 |
| Totals: | | | 0.36 | - | 0.36 | 14 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **38** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 95 | 0.15 | 0.40 | - | 14.6 |
| Shallow Conc. (Unpaved) | | | | 0.00 | - |

**Time of Conc. = 15 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-139B** |
| **Receiving Node:** | **N-139B** |
| **Basin Area:** | **166.34 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 2 | Archbold Fine Sand, 0 to 5% slopes | A |
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 40 | Samsula Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |
| 54 | Zolfo Fine Sand | A |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 33.11 | | 33.11 | 993 |
| Brush (Good) | D | 73 | 36.16 | | 36.16 | 2640 |
| Pasture (Good) | A | 39 | 17.36 | | 17.36 | 677 |
| Pasture (Good) | D | 80 | 7.75 | | 7.75 | 620 |
| Wetlands | A | 98 | 0.07 | | 0.07 | 7 |
| Wetlands | D | 98 | 65.02 | | 65.02 | 6372 |
| Woods (Good) | A | 30 | 0.88 | | 0.88 | 26 |
| Woods-Grass Comb. (Good) | D | 79 | 5.99 | | 5.99 | 473 |
| Totals: | | | 166.34 | - | 166.34 | 11808 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **71** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.20 | - | 44.0 |
| Shallow Conc. (Unpaved) | 1475 | | 0.73 | 1.38 | 17.8 |

**Time of Conc. = 62 Minutes**

| | |
|---|---|
| **Basin:** | **B-153** |
| **Receiving Node:** | **N-153** |
| **Basin Area:** | **33.48 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 8.88 | | 8.88 | 648 |
| Wetlands | D | 98 | 13.41 | | 13.41 | 1314 |
| Woods (Good) | D | 77 | 1.45 | | 1.45 | 112 |
| Woods-Grass Comb. (Good) | A | 32 | 0.33 | | 0.33 | 11 |
| Woods-Grass Comb. (Good) | D | 79 | 9.41 | | 9.41 | 743 |
| Totals: | | | 33.48 | - | 33.48 | 2828 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **84** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.32 | - | 36.5 |
| Shallow Conc. (Unpaved) | 1010 | | 0.32 | 0.91 | 18.4 |

**Time of Conc. = 55 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-154A** |
| **Receiving Node:** | **N-154A** |
| **Basin Area:** | **27.02 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 12.85 | | 12.85 | 938 |
| Pasture (Good) | D | 80 | 3.85 | | 3.85 | 308 |
| Wetlands | D | 98 | 10.32 | | 10.32 | 1011 |
| Totals: | | | 27.02 | - | 27.02 | 2257 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **84** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 0.55 | - | 13.4 |
| Shallow Conc. (Unpaved) | 800 | | 0.55 | 1.20 | 11.1 |

**Time of Conc. = 25 Minutes**

| | |
|---|---|
| **Basin:** | **B-154B** |
| **Receiving Node:** | **N-154B** |
| **Basin Area:** | **3.67 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |
| 54 | Zolfo Fine Sand | A |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 2.34 | | 2.34 | 91 |
| Pasture (Good) | D | 80 | 0.93 | | 0.93 | 74 |
| Woods (Good) | A | 30 | 0.40 | | 0.40 | 12 |
| Totals: | | | 3.67 | - | 3.67 | 178 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **48** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 0.55 | - | 13.4 |
| Shallow Conc. (Unpaved) | 240 | | 0.55 | 1.20 | 3.3 |

**Time of Conc. = 17 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-155A** |
| **Receiving Node:** | **N-155A** |
| **Basin Area:** | **40.91 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 2.89 | | 2.89 | 211 |
| Pasture (Good) | D | 80 | 0.42 | | 0.42 | 34 |
| Wetlands | D | 98 | 21.02 | | 21.02 | 2060 |
| Woods (Good) | A | 30 | 3.27 | | 3.27 | 98 |
| Woods (Good) | D | 77 | 4.42 | | 4.42 | 340 |
| Woods-Grass Comb. (Good) | A | 32 | 4.29 | | 4.29 | 137 |
| Woods-Grass Comb. (Good) | D | 79 | 4.60 | | 4.60 | 363 |
| Totals: | | | 40.91 | - | 40.91 | 3244 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **79** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.88 | - | 24.3 |
| Shallow Conc. (Unpaved) | 1225 | | 0.36 | 0.97 | 21.1 |

**Time of Conc. = 45 Minutes**

| | |
|---|---|
| **Basin:** | **B-155B** |
| **Receiving Node:** | **N-155B** |
| **Basin Area:** | **25.75 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 1.85 | | 1.85 | 56 |
| Brush (Good) | D | 73 | 7.81 | | 7.81 | 570 |
| Pasture (Good) | A | 39 | 0.67 | | 0.67 | 26 |
| Pasture (Good) | D | 80 | 0.21 | | 0.21 | 17 |
| Wetlands | D | 98 | 3.53 | | 3.53 | 346 |
| Woods (Good) | A | 30 | 7.43 | | 7.43 | 223 |
| Woods (Good) | D | 77 | 4.25 | | 4.25 | 327 |
| Totals: | | | 25.75 | - | 25.75 | 1565 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **61** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.20 | - | 44.0 |
| Shallow Conc. (Unpaved) | 805 | | 0.73 | 1.38 | 9.7 |

**Time of Conc. = 54 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-156A** |
| **Receiving Node:** | **N-156A** |
| **Basin Area:** | **15.39 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Wetlands | D | 98 | 0.55 | | 0.55 | 54 |
| Woods (Good) | A | 30 | 7.93 | | 7.93 | 238 |
| Woods (Good) | D | 77 | 3.69 | | 3.69 | 284 |
| Woods-Grass Comb. (Good) | A | 32 | 3.12 | | 3.12 | 100 |
| Woods-Grass Comb. (Good) | D | 79 | 0.10 | | 0.10 | 8 |
| Totals: | | | 15.39 | - | 15.39 | 684 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **44** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.36 | - | 34.8 |
| Shallow Conc. (Unpaved) | 600 | | 0.36 | 0.97 | 10.3 |
| Shallow Conc. (Unpaved) | 255 | | 1.18 | 1.75 | 2.4 |

**Time of Conc. = 48 Minutes**

| | |
|---|---|
| **Basin:** | **B-156B** |
| **Receiving Node:** | **N-156B** |
| **Basin Area:** | **0.67 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 37 | St. Johns Fine Sand | B/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Woods (Good) | D | 77 | 0.67 | | 0.67 | 52 |
| Totals: | | | 0.67 | - | 0.67 | 52 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **77** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 0.90 | - | 16.0 |
| Shallow Conc. (Unpaved) | 185 | | 0.15 | 0.62 | 4.9 |

**Time of Conc. = 21 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **B-156C** |
| **Receiving Node:** | **N-156C** |
| **Basin Area:** | **2.23 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 37 | St. Johns Fine Sand | B/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Wetlands | D | 98 | 1.21 | | 1.21 | 119 |
| Woods (Good) | D | 77 | 1.02 | | 1.02 | 79 |
| Totals: | | | 2.23 | - | 2.23 | 197 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **88** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 1.61 | - | 12.7 |
| Shallow Conc. (Unpaved) | 30 | | 3.62 | 3.07 | 0.2 |

**Time of Conc. = 13 Minutes**

| | |
|---|---|
| **Basin:** | **B-156D** |
| **Receiving Node:** | **N-156D** |
| **Basin Area:** | **1.28 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Wetlands | D | 98 | 0.18 | | 0.18 | 18 |
| Woods (Good) | A | 30 | 0.51 | | 0.51 | 15 |
| Woods (Good) | D | 77 | 0.59 | | 0.59 | 45 |
| Totals: | | | 1.28 | - | 1.28 | 78 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **61** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 0.79 | - | 16.9 |
| Shallow Conc. (Unpaved) | 100 | | 0.04 | 0.32 | 5.2 |
| Shallow Conc. (Unpaved) | 80 | | 0.57 | 1.22 | 1.1 |

**Time of Conc. = 23 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin Name:** | **ES-W11-1** |
| **Receiving Node:** | **ES-W11-1** |
| **Basin Area:** | **0.58 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Open Space (Good) | D | 80 | 0.35 | 0.00 | 0.35 | 28 |
| Impervious | D | 98 | 0.23 | 0.00 | 0.23 | 23 |
| Totals: | | | 0.58 | - | 0.58 | 51 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **87** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 25 | 0.3 | 8.00 | - | 2.6 |

Note: 10-minute Time of Concentration is used when calculated value is less.

**Time of Conc. = 3 Minutes**

| | |
|---|---|
| **Basin Name:** | **ES-W14** |
| **Receiving Node:** | **ES-W14** |
| **Basin Area:** | **0.75 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Open Space (Good) | D | 80 | 0.45 | 0.00 | 0.45 | 36 |
| Impervious | D | 98 | 0.30 | 0.00 | 0.30 | 29 |
| Totals: | | | 0.75 | - | 0.75 | 65 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **87** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 25 | 0.3 | 8.00 | - | 2.6 |

Note: 10-minute Time of Concentration is used when calculated value is less.

**Time of Conc. = 3 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin Name:** | **ES-W17** |
| **Receiving Node:** | **ES-W17** |
| **Basin Area:** | **1.33 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Open Space (Good) | D | 80 | 0.80 | 0.00 | 0.80 | 64 |
| Impervious | D | 98 | 0.53 | 0.00 | 0.53 | 52 |
| Totals: | | | 1.33 | - | 1.33 | 116 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **87** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 25 | 0.3 | 8.00 | - | 2.6 |

Note: 10-minute Time of Concentration is used when calculated value is less.

**Time of Conc. = 3 Minutes**

| | |
|---|---|
| **Basin Name:** | **ES-W21** |
| **Receiving Node:** | **ES-W21** |
| **Basin Area:** | **1.00 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Open Space (Good) | D | 80 | 0.60 | 0.00 | 0.60 | 48 |
| Impervious | D | 98 | 0.40 | 0.00 | 0.40 | 39 |
| Totals: | | | 1.00 | - | 1.00 | 87 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **87** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 25 | 0.3 | 8.00 | - | 2.6 |

Note: 10-minute Time of Concentration is used when calculated value is less.

**Time of Conc. = 3 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin Name:** | **ES-W24** |
| **Receiving Node:** | **ES-W24** |
| **Basin Area:** | **0.83 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Open Space (Good) | D | 80 | 0.50 | 0.00 | 0.50 | 40 |
| Impervious | D | 98 | 0.33 | 0.00 | 0.33 | 33 |
| Totals: | | | 0.83 | - | 0.83 | 72 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **87** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 25 | 0.3 | 8.00 | - | 2.6 |

Note: 10-minute Time of Concentration is used when calculated value is less.

**Time of Conc. = 3 Minutes**

| | |
|---|---|
| **Basin Name:** | **ES-W24A** |
| **Receiving Node:** | **ES-W24A** |
| **Basin Area:** | **1.80 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Open Space (Good) | D | 80 | 1.08 | 0.00 | 1.08 | 86 |
| Impervious | D | 98 | 0.72 | 0.00 | 0.72 | 71 |
| Totals: | | | 1.80 | - | 1.80 | 157 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **87** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 25 | 0.3 | 8.00 | - | 2.6 |

Note: 10-minute Time of Concentration is used when calculated value is less.

**Time of Conc. = 3 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **RR-2** |
| **Receiving Node:** | **RR-2** |
| **Basin Area:** | **11.02 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 8.54 | 0.00 | 8.54 | 333 |
| Pasture (Good) | D | 80 | 0.02 | 0.00 | 0.02 | 2 |
| Woods-Grass Comb. (Good) | A | 32 | 2.46 | 0.00 | 2.46 | 79 |
| Totals: | | | 11.02 | - | 11.02 | 413 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **38** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 1.20 | - | 9.8 |
| Shallow Conc. (Unpaved) | 25 | - | 1.20 | 1.77 | 0.2 |
| Shallow Conc. (Unpaved) | 30 | - | 10.00 | 5.10 | 0.1 |
| Shallow Conc. (Unpaved) | 885 | - | 0.11 | 0.54 | 27.2 |

**Time of Conc. = 37 Minutes**

| | |
|---|---|
| **Basin:** | **RR-3** |
| **Receiving Node:** | **RR-3** |
| **Basin Area:** | **19.71 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 13.97 | 0.00 | 13.97 | 545 |
| Pasture (Good) | D | 80 | 4.92 | 0.00 | 4.92 | 394 |
| Woods (Good) | A | 30 | 0.82 | 0.00 | 0.82 | 25 |
| Totals: | | | 19.71 | - | 19.71 | 963 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **49** |
| **Composite DCIA =** | **-** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 0.33 | - | 23.9 |
| Shallow Conc. (Unpaved) | 200 | - | 0.33 | 0.93 | 3.6 |
| Shallow Conc. (Unpaved) | 340 | - | 0.44 | 1.07 | 5.3 |
| Channel/Pipe Flow | 615 | - | 0.16 | 2.50 | 4.1 |

**Time of Conc. = 37 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **SMA-1** |
| **Receiving Node:** | **SMA-1** |
| **Basin Area:** | **8.62 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Open Space (Good) | A | 39 | 0.05 | | 0.05 | 2 |
| Open Space (Good) | D | 80 | 0.88 | | 0.88 | 70 |
| R.O.W. (80%) | A | 65 | 0.14 | 0.24 | 0.38 | 9 |
| R.O.W. (80%) | D | 88 | 2.19 | 3.90 | 6.09 | 193 |
| Water Surface | N/A | 98 | | 1.22 | 1.22 | 0 |
| Totals: | | | 3.26 | 5.36 | 8.62 | 274 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **84** |
| **Composite DCIA =** | **62%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 25 | 0.12 | 3.00 | - | 1.9 |
| Shallow Conc. (Paved) | 250 | | 1.00 | 2.03 | 2.0 |
| Channel/Pipe Flow | 945 | | | 2.50 | 6.3 |

**Time of Conc. = 10 Minutes**

| | |
|---|---|
| **Basin:** | **SMA-2** |
| **Receiving Node:** | **SMA-2** |
| **Basin Area:** | **8.88 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Open Space (Good) | D | 80 | 0.81 | | 0.81 | 65 |
| R.O.W. (80%) | D | 88 | 2.46 | 4.36 | 6.82 | 216 |
| Water Surface | N/A | 98 | | 1.25 | 1.25 | 0 |
| Totals: | | | 3.27 | 5.61 | 8.88 | 281 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **86** |
| **Composite DCIA =** | **63%** |

**ime of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 25 | 0.12 | 3.00 | - | 1.9 |
| Shallow Conc. (Paved) | 250 | | 1.00 | 2.03 | 2.0 |
| Channel/Pipe Flow | 1170 | | | 2.50 | 7.8 |

**Time of Conc. = 12 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **SMA-3** |
| **Receiving Node:** | **SMA-3** |
| **Basin Area:** | **11.80 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |
| 54 | Zolfo Fine Sand | A |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Open Space (Good) | D | 80 | 0.89 | | 0.89 | 71 |
| R.O.W. (80%) | A | 65 | 1.09 | 1.95 | 3.04 | 71 |
| R.O.W. (80%) | D | 88 | 2.32 | 4.12 | 6.44 | 204 |
| Water Surface | N/A | 98 | | 1.43 | 1.43 | 0 |
| Totals: | | | 4.30 | 7.50 | 11.80 | 346 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **80** |
| **Composite DCIA =** | **64%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 25 | 0.12 | 3.00 | - | 1.9 |
| Shallow Conc. (Paved) | 250 | | 1.00 | 2.03 | 2.0 |
| Channel/Pipe Flow | 1380 | | | 2.50 | 9.2 |

**Time of Conc. = 13 Minutes**

| | |
|---|---|
| **Basin:** | **SMA-4** |
| **Receiving Node:** | **SMA-4** |
| **Basin Area:** | **11.18 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 40 | Samsula Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Open Space (Good) | A | 39 | 0.30 | | 0.30 | 12 |
| Open Space (Good) | D | 80 | 0.57 | | 0.57 | 46 |
| R.O.W. (80%) | A | 65 | 0.59 | 1.05 | 1.64 | 38 |
| R.O.W. (80%) | D | 88 | 2.59 | 4.61 | 7.20 | 228 |
| Water Surface | N/A | 98 | | 1.47 | 1.47 | 0 |
| Totals: | | | 4.05 | 7.13 | 11.18 | 324 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **80** |
| **Composite DCIA =** | **64%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 25 | 0.13 | 3.00 | - | 2.0 |
| Shallow Conc. (Paved) | 250 | | 1.00 | 2.03 | 2.0 |
| Channel/Pipe Flow | 1675 | | | 2.50 | 11.2 |

**Time of Conc. = 15 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **SMA-5** |
| **Receiving Node:** | **SMA-5** |
| **Basin Area:** | **10.86 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 40 | Samsula Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Open Space (Good) | D | 80 | 0.80 | | 0.80 | 64 |
| R.O.W. (60%) | D | 91 | 5.57 | 0.00 | 5.57 | 507 |
| R.O.W. (80%) | D | 88 | 1.02 | 1.81 | 2.83 | 90 |
| Water Surface | N/A | 98 | | 1.66 | 1.66 | 0 |
| Totals: | | | 7.39 | 3.47 | 10.86 | 661 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **89** |
| **Composite DCIA =** | **32%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 25 | 0.13 | 3.00 | - | 2.0 |
| Shallow Conc. (Paved) | 250 | | 1.00 | 2.03 | 2.0 |
| Channel/Pipe Flow | 1535 | | | 2.50 | 10.2 |

**Time of Conc. = 14 Minutes**

| | |
|---|---|
| **Basin Name:** | **SMA-6A-1** |
| **Receiving Node:** | **SMA-6A-1** |
| **Basin Area:** | **30.65 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 37 | St. Johns Fine Sand | B/D |
| 41 | Samsula-Hontoon-Basinger association, depressional | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Residential (70%) | D | 91 | 14.12 | 7.60 | 21.72 | 1285 |
| Open Space (Good) | D | 80 | 2.12 | 0.00 | 2.12 | 170 |
| Water Surface | N/A | 98 | 0.00 | 6.81 | 6.81 | 0 |
| Totals: | | | 16.24 | 14.41 | 30.65 | 1455 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **90** |
| **Composite DCIA =** | **47%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 80 | 0.3 | 1.50 | - | 13.1 |
| Shallow Conc. (Paved) | 115 | | 1.00 | 2.03 | 0.9 |
| Channel/Pipe Flow | 1345 | | | 2.50 | 9.0 |

**Time of Conc. = 23 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin Name:** | **SMA-6A-2** |
| **Receiving Node:** | **SMA-6A-2** |
| **Basin Area:** | **11.71 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Residential (70%) | D | 91 | 6.36 | 3.43 | 9.79 | 579 |
| Open Space (Good) | D | 80 | 0.77 | 0.00 | 0.77 | 62 |
| Water Surface | N/A | 98 | 0.00 | 1.15 | 1.15 | 0 |
| Totals: | | | 7.13 | 4.58 | 11.71 | 640 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **90** |
| **Composite DCIA =** | **39%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 65 | 0.3 | 1.50 | - | 11.1 |
| Shallow Conc. (Unpaved) | 100 | | 1.50 | 1.98 | 0.8 |
| Shallow Conc. (Unpaved) | 120 | | 1.00 | | |
| Channel/Pipe Flow | 1250 | | | 2.50 | 8.3 |

**Time of Conc. = 20 Minutes**

| | |
|---|---|
| **Basin Name:** | **SMA-6B** |
| **Receiving Node:** | **SMA-6B** |
| **Basin Area:** | **12.72 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 41 | Samsula-Hontoon-Basinger association, depressional | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Residential (70%) | D | 91 | 6.68 | 3.59 | 10.27 | 608 |
| Open Space (Good) | D | 80 | 0.96 | 0.00 | 0.96 | 77 |
| Water Surface | N/A | 98 | 0.00 | 1.49 | 1.49 | 0 |
| Totals: | | | 7.64 | 5.08 | 12.72 | 685 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **90** |
| **Composite DCIA =** | **40%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 26 | 0.3 | 1.50 | - | 5.3 |
| Shallow Conc. (Unpaved) | 125 | | 1.50 | 1.98 | 1.1 |
| Shallow Conc. (Paved) | 115 | | 1.00 | 2.03 | 0.9 |
| Channel/Pipe Flow | 1090 | | | 2.50 | 7.3 |

**Time of Conc. = 15 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin Name:** | **SMA-6C-1** |
| **Receiving Node:** | **SMA-6C-1** |
| **Basin Area:** | **24.89 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Residential (70%) | D | 91 | 13.15 | 7.08 | 20.23 | 1197 |
| Open Space (Good) | D | 80 | 2.13 | 0.00 | 2.13 | 170 |
| Water Surface | N/A | 98 | 0.00 | 2.53 | 2.53 | 0 |
| Totals: | | | 15.28 | 9.61 | 24.89 | 1367 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **89** |
| **Composite DCIA =** | **39%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 45 | 0.3 | 1.50 | - | 8.3 |
| Shallow Conc. (Unpaved) | 110 | | 1.50 | 1.98 | 0.9 |
| Shallow Conc. (Paved) | 65 | | 1.00 | | |
| Channel/Pipe Flow | 1850 | | | 2.50 | 12.3 |

**Time of Conc. = 22 Minutes**

| | |
|---|---|
| **Basin Name:** | **SMA-6C-2** |
| **Receiving Node:** | **SMA-6C-2** |
| **Basin Area:** | **35.80 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Residential (70%) | D | 91 | 8.44 | 4.55 | 12.99 | 768 |
| Civic/Office/Commercial (75%) | D | 91 | 1.86 | 1.12 | 2.98 | 169 |
| R.O.W. (85%) | D | 91 | 0.93 | 2.43 | 3.36 | 85 |
| School (50%) | D | 90 | 7.10 | 4.73 | 11.83 | 639 |
| Open Space (Good) | D | 80 | 1.79 | 0.00 | 1.79 | 143 |
| Water Surface | N/A | 98 | 0.00 | 2.85 | 2.85 | 0 |
| Totals: | | | 20.12 | 15.68 | 35.80 | 1804 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **90** |
| **Composite DCIA =** | **44%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 45 | 0.3 | 1.50 | - | 8.3 |
| Shallow Conc. (Unpaved) | 145 | | 1.00 | 1.61 | 1.5 |
| Channel/Pipe Flow | 1745 | | | 2.50 | 11.6 |

**Time of Conc. = 21 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin Name:** | **SMA-6C-3** |
| **Receiving Node:** | **SMA-6C-3** |
| **Basin Area:** | **42.33 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Residential (70%) | A | 75 | 6.86 | 3.69 | 10.55 | 515 |
| Residential (70%) | D | 91 | 7.22 | 3.89 | 11.11 | 657 |
| R.O.W. (85%) | A | 74 | 0.99 | 2.57 | 3.56 | 73 |
| R.O.W. (85%) | D | 91 | 0.27 | 0.69 | 0.96 | 24 |
| Open Space (Good) | A | 39 | 5.85 | 0.00 | 5.85 | 228 |
| Open Space (Good) | D | 80 | 4.31 | 0.00 | 4.31 | 345 |
| Water Surface | N/A | 98 | 0.00 | 6.00 | 6.00 | 0 |
| Totals: | | | 25.50 | 16.84 | 42.33 | 1842 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **72** |
| **Composite DCIA =** | **40%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 45 | 0.3 | 1.50 | - | 8.3 |
| Shallow Conc. (Unpaved) | 115 | | 1.50 | 1.98 | 1.0 |
| Shallow Conc. (Paved) | 65 | | 1.00 | | |
| Channel/Pipe Flow | 1505 | | | 2.50 | 10.0 |

**Time of Conc. = 19 Minutes**

| | |
|---|---|
| **Basin Name:** | **SMA-7B** |
| **Receiving Node:** | **SMA-7B** |
| **Basin Area:** | **36.50 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Residential (70%) | D | 91 | 11.40 | 6.14 | 17.54 | 1037 |
| R.O.W. (85%) | A | 74 | 1.09 | 2.82 | 3.91 | 81 |
| R.O.W. (85%) | D | 91 | 2.27 | 5.91 | 8.18 | 207 |
| Civic/Office/Commercial | D | 91 | 0.91 | 0.54 | 1.45 | 83 |
| Open Space (Good) | D | 80 | 1.66 | 0.00 | 1.66 | 133 |
| Water Surface | N/A | 98 | 0.00 | 3.76 | 3.76 | 0 |
| Totals: | | | 17.33 | 19.17 | 36.50 | 1540 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **89** |
| **Composite DCIA =** | **53%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 60 | 0.3 | 1.50 | - | 10.4 |
| Shallow Conc. (Unpaved) | 120 | | 1.50 | 1.98 | 1.0 |
| Shallow Conc. (Paved) | 50 | | 1.00 | 2.03 | 0.4 |
| Channel/Pipe Flow | 1425 | | | 2.50 | 9.5 |

**Time of Conc. = 21 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin Name:** | **SMA-13** |
| **Receiving Node:** | **SMA-13** |
| **Basin Area:** | **41.58 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Park (25%) | A | 71 | 23.47 | 1.57 | 25.04 | 1666 |
| Park (25%) | D | 90 | 3.17 | 0.21 | 3.38 | 285 |
| R.O.W. (85%) | A | 74 | 0.20 | 0.57 | 0.77 | 15 |
| R.O.W. (85%) | D | 91 | 1.97 | 5.12 | 7.09 | 179 |
| Open Space (Good) | D | 80 | 1.39 | 0.00 | 1.39 | 111 |
| Water Surface | N/A | 98 | 0.00 | 3.91 | 3.91 | 0 |
| Totals: | | | 30.20 | 11.38 | 41.58 | 2257 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **75** |
| **Composite DCIA =** | **27%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.3 | 2.00 | - | 13.9 |
| Shallow Conc. (Paved) | 200 | - | 0.50 | 1.44 | 2.3 |
| Channel/Pipe Flow | 1180 | - | - | 2.50 | 7.9 |

**Time of Conc. = 24 Minutes**

| | |
|---|---|
| **Basin:** | **W11-1** |
| **Receiving Node:** | **W11-1** |
| **Basin Area:** | **11.13 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 5.46 | 0.00 | 5.46 | 399 |
| Wetlands | D | 98 | 0.00 | 5.29 | 5.29 | 0 |
| Woods (Good) | D | 77 | 0.38 | 0.00 | 0.38 | 29 |
| Totals: | | | 5.84 | 5.29 | 11.13 | 428 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **73** |
| **Composite DCIA =** | **48%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 75 | 0.4 | 0.67 | - | 21.6 |

**Time of Conc. = 22 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **W11-7** |
| **Receiving Node:** | **TW-W11-7** |
| **Basin Area:** | **192.27 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 34.83 | 0.00 | 34.83 | 1045 |
| Brush (Good) | D | 73 | 54.51 | 0.00 | 54.51 | 3979 |
| Pasture (Good) | A | 39 | 4.74 | 0.00 | 4.74 | 185 |
| Wetlands | N/A | 98 | 0.00 | 48.63 | 48.63 | 0 |
| Woods (Good) | A | 30 | 8.17 | 0.00 | 8.17 | 245 |
| Woods (Good) | D | 77 | 41.39 | 0.00 | 41.39 | 3187 |
| Totals: | | | 143.64 | 48.63 | 192.27 | 8641 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **60** |
| **Composite DCIA =** | **25%** |

**Time of Concentration (Tc) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.40 | - | 33.4 |
| Shallow Conc. (Unpaved) | 355 | - | 0.40 | 1.02 | 5.8 |
| Shallow Conc. (Unpaved) | 3100 | - | 0.15 | 0.62 | 82.7 |

**Time of Conc. = 122 Minutes**

| | |
|---|---|
| **Basin:** | **W12** |
| **Receiving Node:** | **W12** |
| **Basin Area:** | **102.52 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 2.96 | 0.00 | 2.96 | 89 |
| Brush (Good) | D | 73 | 41.38 | 0.00 | 41.38 | 3021 |
| R.O.W. (Paved, Open Ditch) | A | 83 | 1.01 | 0.00 | 1.01 | 84 |
| R.O.W. (Paved, Open Ditch) | D | 93 | 3.83 | 0.00 | 3.83 | 356 |
| Wetlands | D | 98 | 0.00 | 38.46 | 38.46 | 0 |
| Woods (Good) | A | 30 | 2.26 | 0.00 | 2.26 | 68 |
| Woods (Good) | D | 77 | 12.62 | 0.00 | 12.62 | 972 |
| Totals: | | | 64.06 | 38.46 | 102.52 | 4589 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **72** |
| **Composite DCIA =** | **38%** |

**Time of Concentration (Tc) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.10 | - | 58.1 |
| Shallow Conc. (Unpaved) | 484 | - | 0.62 | 1.27 | 6.3 |

**Time of Conc. = 64 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **W13** |
| **Receiving Node:** | **W13** |
| **Basin Area:** | **142.13 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 41 | Samsula-Hontoon-Basinger, depressional | A/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 11.82 | 0.00 | 11.82 | 355 |
| Brush (Good) | D | 73 | 73.86 | 0.00 | 73.86 | 5392 |
| Wetlands | N/A | 98 | 0.00 | 45.60 | 45.60 | 0 |
| Woods (Good) | D | 77 | 10.85 | 0.00 | 10.85 | 835 |
| Totals: | | | 96.53 | 45.60 | 142.13 | 6582 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **68** |
| **Composite DCIA =** | **32%** |

**Time of Concentration (Tc) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.17 | - | 47.4 |
| Shallow Conc. (Unpaved) | 200 | - | 0.17 | 0.67 | 5.0 |
| Shallow Conc. (Unpaved) | 650 | - | 0.77 | 1.42 | 7.7 |

**Time of Conc. = 60 Minutes**

| | |
|---|---|
| **Basin:** | **W14** |
| **Receiving Node:** | **W14** |
| **Basin Area:** | **8.27 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 1.95 | 0.00 | 1.95 | 142 |
| Wetlands | D | 98 | 0.00 | 4.22 | 4.22 | 0 |
| Woods (Good) | D | 77 | 2.10 | 0.00 | 2.10 | 162 |
| Totals: | | | 4.05 | 4.22 | 8.27 | 304 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **75** |
| **Composite DCIA =** | **51%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 1.00 | - | 15.4 |
| Shallow Conc. (Unpaved) | 200 | - | 1.00 | 1.61 | 2.1 |

**Time of Conc. = 17 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **W17** |
| **Receiving Node:** | **W17** |
| **Basin Area:** | **11.67 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Wetlands | D | 98 | 0.00 | 9.10 | 9.10 | 0 |
| Woods (Good) | D | 77 | 2.57 | 0.00 | 2.57 | 198 |
| Totals: | | | 2.57 | 9.10 | 11.67 | 198 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **77** |
| **Composite DCIA =** | **78%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 50 | 0.4 | 2.00 | - | 10.1 |

**Time of Conc. = 10 Minutes**

| | |
|---|---|
| **Basin:** | **W18** |
| **Receiving Node:** | **W18** |
| **Basin Area:** | **38.14 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 9.79 | 0.00 | 9.79 | 715 |
| Wetlands | D | 98 | 0.00 | 8.70 | 8.70 | 0 |
| Woods (Good) | A | 30 | 1.09 | 0.00 | 1.09 | 33 |
| Woods (Good) | D | 77 | 18.56 | 0.00 | 18.56 | 1429 |
| Totals: | | | 29.44 | 8.70 | 38.14 | 2176 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **74** |
| **Composite DCIA =** | **23%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.33 | - | 35.9 |
| Shallow Conc. (Unpaved) | 200 | - | 0.33 | 0.93 | 3.6 |
| Shallow Conc. (Unpaved) | 265 | - | 0.38 | 0.99 | 4.5 |

**Time of Conc. = 44 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **W20** |
| **Receiving Node:** | **W20** |
| **Basin Area:** | **55.01 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Pasture (Good) | A | 39 | 4.39 | 0.00 | 4.39 | 171 |
| Pasture (Good) | D | 80 | 0.75 | 0.00 | 0.75 | 60 |
| Wetlands | N/A | 98 | 0.00 | 17.27 | 17.27 | 0 |
| Woods (Good) | A | 30 | 0.16 | 0.00 | 0.16 | 5 |
| Woods (Good) | D | 77 | 32.44 | 0.00 | 32.44 | 2498 |
| Totals: | | | 37.74 | 17.27 | 55.01 | 2734 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **72** |
| **Composite DCIA =** | **31%** |

**Time of Concentration (Tc) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.17 | - | 47.4 |
| Shallow Conc. (Unpaved) | 130 | - | 0.17 | 0.67 | 3.3 |
| Shallow Conc. (Unpaved) | 645 | - | 0.31 | 0.89 | 12.0 |

**Time of Conc. = 63 Minutes**

| | |
|---|---|
| **Basin:** | **W21** |
| **Receiving Node:** | **W21** |
| **Basin Area:** | **7.59 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Wetlands | D | 98 | 0.00 | 4.42 | 4.42 | 0 |
| Woods (Good) | D | 77 | 3.17 | 0.00 | 3.17 | 244 |
| Totals: | | | 3.17 | 4.42 | 7.59 | 244 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **77** |
| **Composite DCIA =** | **58%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 40 | 0.8 | 1.25 | - | 17.7 |

**Time of Conc. = 18 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **W24** |
| **Receiving Node:** | **W24** |
| **Basin Area:** | **54.15 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 13.42 | 0.00 | 13.42 | 980 |
| Pasture (Good) | D | 80 | 3.17 | 0.00 | 3.17 | 254 |
| Wetlands | N/A | 98 | 0.00 | 21.13 | 21.13 | 0 |
| Woods (Good) | A | 30 | 0.88 | 0.00 | 0.88 | 26 |
| Woods (Good) | D | 77 | 15.55 | 0.00 | 15.55 | 1197 |
| Totals: | | | 33.02 | 21.13 | 54.15 | 2457 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **74** |
| **Composite DCIA =** | **39%** |

**Time of Concentration (Tc) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.30 | - | 37.4 |
| Shallow Conc. (Unpaved) | 775 | - | 0.30 | 0.88 | 14.6 |

**Time of Conc. = 52 Minutes**

| | |
|---|---|
| **Basin:** | **W24A** |
| **Receiving Node:** | **W24A** |
| **Basin Area:** | **85.60 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 41 | Samsula-Hontoon-Basinger, depressional | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 3.40 | 0.00 | 3.40 | 248 |
| Wetlands | N/A | 98 | 0.00 | 24.26 | 24.26 | 0 |
| Woods (Good) | D | 77 | 47.66 | 0.00 | 47.66 | 3670 |
| Woods (Good) | A | 30 | 10.28 | 0.00 | 10.28 | 308 |
| Totals: | | | 61.34 | 24.26 | 85.60 | 4226 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **69** |
| **Composite DCIA =** | **28%** |

**Time of Concentration (Tc) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time (Tt) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.4 | 0.17 | - | 47.4 |
| Shallow Conc. (Unpaved) | 200 | - | 0.17 | 0.67 | 5.0 |
| Shallow Conc. (Unpaved) | 1530 | - | 0.29 | 0.88 | 29.1 |

**Time of Conc. = 82 Minutes**

***Sunbridge Parkway (Segments 2-4)***
***Post-Development Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **W25A** |
| **Receiving Node:** | **W25A** |
| **Basin Area:** | **17.20 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 37 | St. Johns Fine Sand | B/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | D | 73 | 0.19 | 0.00 | 0.19 | 14 |
| Pasture (Good) | D | 80 | 0.73 | 0.00 | 0.73 | 58 |
| Wetlands | D | 98 | 0.00 | 16.02 | 16.02 | 0 |
| Woods (Good) | D | 77 | 0.26 | 0.00 | 0.26 | 20 |
| Totals: | | | 1.18 | 16.02 | 17.20 | 92 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **78** |
| **Composite DCIA =** | **93%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.24 | 1.50 | - | 13.1 |
| Shallow Conc. (Unpaved) | 385 | - | 0.30 | 0.88 | 7.3 |

**Time of Conc. = 20 Minutes**

| | |
|---|---|
| **Basin:** | **W25B** |
| **Receiving Node:** | **W25B** |
| **Basin Area:** | **48.15 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Good) | A | 30 | 1.54 | 0.00 | 1.54 | 46 |
| Brush (Good) | D | 73 | 6.00 | 0.00 | 6.00 | 438 |
| Open Space (Good) | A | 39 | 0.03 | 0.00 | 0.03 | 1 |
| Open Space (Good) | D | 80 | 3.17 | 0.00 | 3.17 | 254 |
| Pasture (Good) | A | 39 | 0.05 | 0.00 | 0.05 | 2 |
| Pasture (Good) | D | 80 | 1.91 | 0.00 | 1.91 | 153 |
| Wetlands | D | 98 | 0.00 | 20.89 | 20.89 | 0 |
| Woods (Good) | A | 30 | 0.15 | 0.00 | 0.15 | 5 |
| Woods (Good) | D | 77 | 14.41 | 0.00 | 14.41 | 1110 |
| Totals: | | | 27.26 | 20.89 | 48.15 | 2008 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **74** |
| **Composite DCIA =** | **43%** |

**Time of Concentration ($T_c$) Calculations**

| Type of Flow | Length (L) (ft) | Roughness Coefficient (n) | Slope (S) (%) | Velocity (V) (fps) | Travel Time ($T_t$) (min) |
|---|---|---|---|---|---|
| Sheet Flow | 100 | 0.15 | 1.25 | - | 9.7 |
| Shallow Conc. (Unpaved) | 1100 | - | 0.50 | 1.14 | 16.1 |

**Time of Conc. = 26 Minutes**

## Manual Basin: B-077

Scenario: Icpr3
Node: N-077
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 40.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 28.72 | B-077 | B-077 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-078

Scenario: Icpr3
Node: N-078
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 44.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 37.76 | B-078 | B-078 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-080

Scenario: Icpr3
Node: N-080
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 42.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 61.88 | B-080 | B-080 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-081

Scenario: Icpr3
Node: N-081

Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 32.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 18.09 | B-081 | B-081 | |

Comment:

## Manual Basin: B-082

Scenario: Icpr3
Node: N-082
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 50.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 17.32 | B-082 | B-082 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-083A

Scenario: Icpr3
Node: N-083A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 44.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 4.81 | B-083A | B-083A | |

Comment:

## Manual Basin: B-083B

Scenario: Icpr3
Node: N-083B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 18.00 min

Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 2.35 | B-083B | B-083B | |

Comment:

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## Manual Basin: B-084A

Scenario: Icpr3
Node: N-084A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 36.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 4.84 | B-084A | B-084A | |

Comment:

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## Manual Basin: B-084B

Scenario: Icpr3
Node: N-084B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 34.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 1.27 | B-084B | B-084B | |

Comment:

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## Manual Basin: B-084C

Scenario: Icpr3
Node: N-084C
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 40.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256

Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 36.10 | B-084C | B-084C | |

Comment:

## Manual Basin: B-084D

Scenario: Icpr3
Node: N-084D
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 33.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 259.39 | B-084D | B-084D | |

Comment:

## Manual Basin: B-085

Scenario: Icpr3
Node: N-085
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 36.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 13.10 | B-085 | B-085 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-086

Scenario: Icpr3
Node: N-086
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 17.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 2.01 | B-086 | B-086 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

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## Manual Basin: B-087

Scenario: Icpr3
Node: N-087
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 25.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 11.44 | B-087 | B-087 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

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## Manual Basin: B-088

Scenario: Icpr3
Node: N-088
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 33.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 83.10 | B-088 | B-088 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

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## Manual Basin: B-089

Scenario: Icpr3
Node: N-089
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 19.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 14.77 | B-089 | B-089 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-133

Scenario: Icpr3
Node: N-133
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 54.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 87.17 | B-133 | B-133 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-134A

Scenario: Icpr3
Node: N-134A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 52.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 39.01 | B-134A | B-134A | |

Comment:

## Manual Basin: B-134B

Scenario: Icpr3
Node: N-134B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 23.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 4.21 | B-134B | B-134B | |

Comment:

## Manual Basin: B-135

Scenario: Icpr3
Node: N-135

Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 27.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 4.68 | B-135 | B-135 | |

Comment:

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## Manual Basin: B-136A

Scenario: Icpr3
Node: N-136A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 61.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 65.85 | B-136A | B-136A | |

Comment:

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## Manual Basin: B-136B

Scenario: Icpr3
Node: N-136B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 81.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 25.31 | B-136B | B-136B | |

Comment:

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## Manual Basin: B-137A

Scenario: Icpr3
Node: N-137A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 18.00 min

Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 2.54 | B-137A | B-137A | |

Comment:

## Manual Basin: B-137B

Scenario: Icpr3
Node: N-137B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 18.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 2.54 | B-137B | B-137B | |

Comment:

## Manual Basin: B-138

Scenario: Icpr3
Node: N-138
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 26.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 9.35 | B-138 | B-138 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Manual Basin: B-139A

Scenario: Icpr3
Node: N-139A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 15.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256

Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 0.36 | B-139A | B-139A | |

Comment:

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## Manual Basin: B-139B

Scenario: Icpr3
Node: N-139B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 62.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 166.34 | B-139B | B-139B | |

Comment:

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## Manual Basin: B-153

Scenario: Icpr3
Node: N-153
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 55.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 33.48 | B-153 | B-153 | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

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## Manual Basin: B-154A

Scenario: Icpr3
Node: N-154A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 25.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 27.02 | B-154A | B-154A | |

Comment:

## Manual Basin: B-154B

Scenario: Icpr3
Node: N-154B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 17.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 3.67 | B-154B | B-154B | |

Comment:

## Manual Basin: B-155A

Scenario: Icpr3
Node: N-155A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 45.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 40.91 | B-155A | B-155A | |

Comment:

## Manual Basin: B-155B

Scenario: Icpr3
Node: N-155B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 54.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 25.75 | B-155B | B-155B | |

Comment:

## Manual Basin: B-156A

Scenario: Icpr3
Node: N-156A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 48.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 15.39 | B-156A | B-156A | |

Comment:

## Manual Basin: B-156B

Scenario: Icpr3
Node: N-156B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 21.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 0.67 | B-156B | B-156B | |

Comment:

## Manual Basin: B-156C

Scenario: Icpr3
Node: N-156C
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 13.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 2.23 | B-156C | B-156C | |

Comment:

## Manual Basin: B-156D

Scenario: Icpr3
Node: N-156D

Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 23.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 1.28 | B-156D | B-156D | |

Comment:

## Manual Basin: ES-W11-1

Scenario: Icpr3
Node: ES-W11-1
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 0.58 | ES-W11-1 | ES-W11-1 | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Manual Basin: ES-W14

Scenario: Icpr3
Node: ES-W14
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 0.75 | ES-W14 | ES-W14 | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Manual Basin: ES-W17

Scenario: Icpr3
Node: ES-W17
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.00 min

Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 1.33 | ES-W17 | ES-W17 | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Manual Basin: ES-W21

Scenario: Icpr3
Node: ES-W21
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 1.00 | ES-W21 | ES-W21 | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Manual Basin: ES-W24

Scenario: Icpr3
Node: ES-W24
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 0.83 | ES-W24 | ES-W24 | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Manual Basin: ES-W24A

Scenario: Icpr3
Node: ES-W24A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256

Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 1.80 | ES-W24A | ES-W24A | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

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## Manual Basin: RR-2

Scenario: Icpr3
Node: RR-2
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 37.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 11.02 | RR-2 | RR-2 | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SJRWMD app. no. 2270-17)

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## Manual Basin: RR-3

Scenario: Icpr3
Node: RR-3
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 37.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 19.71 | RR-3 | RR-3 | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

---

## Manual Basin: SMA-1

Scenario: Icpr3
Node: SMA-1
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 8.62 | SMA-1 | SMA-1 | |

Comment:

---

## Manual Basin: SMA-13

Scenario: Icpr3
Node: SMA-13
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 24.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 41.58 | SMA-13 | SMA-13 | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SJRWMD app. no. 2270-17)

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## Manual Basin: SMA-2

Scenario: Icpr3
Node: SMA-2
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 12.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 8.88 | SMA-2 | SMA-2 | |

Comment:

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## Manual Basin: SMA-3

Scenario: Icpr3
Node: SMA-3
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 13.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: Uh256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 11.80 | SMA-3 | SMA-3 | |

Comment:

## Manual Basin: SMA-4

| | |
|---|---|
| Scenario: | Icpr3 |
| Node: | SMA-4 |
| Hydrograph Method: | NRCS Unit Hydrograph |
| Infiltration Method: | Curve Number |
| Time of Concentration: | 15.00 min |
| Max Allowable Q: | 999999.00 cfs |
| Time Shift: | 0.00 hr |
| Unit Hydrograph: | Uh256 |
| Peaking Factor: | 256 |

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 11.18 | SMA-4 | SMA-4 | |

Comment:

## Manual Basin: SMA-5

| | |
|---|---|
| Scenario: | Icpr3 |
| Node: | SMA-5 |
| Hydrograph Method: | NRCS Unit Hydrograph |
| Infiltration Method: | Curve Number |
| Time of Concentration: | 14.00 min |
| Max Allowable Q: | 999999.00 cfs |
| Time Shift: | 0.00 hr |
| Unit Hydrograph: | Uh256 |
| Peaking Factor: | 256 |

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 10.86 | SMA-5 | SMA-5 | |

Comment:

## Manual Basin: SMA-6A-1

| | |
|---|---|
| Scenario: | Icpr3 |
| Node: | SMA-6A-1 |
| Hydrograph Method: | NRCS Unit Hydrograph |
| Infiltration Method: | Curve Number |
| Time of Concentration: | 23.00 min |
| Max Allowable Q: | 999999.00 cfs |
| Time Shift: | 0.00 hr |
| Unit Hydrograph: | UH256 |
| Peaking Factor: | 256 |

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 30.65 | SMA-6A-1 | SMA-6A-1 | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Manual Basin: SMA-6A-2

| | |
|---|---|
| Scenario: | Icpr3 |
| Node: | SMA-6A-2 |

Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 11.71 | SMA-6A-2 | SMA-6A-2 | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

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## Manual Basin: SMA-6B

Scenario: Icpr3
Node: SMA-6B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 15.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 12.72 | SMA-6B | SMA-6B | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

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## Manual Basin: SMA-6C-1

Scenario: Icpr3
Node: SMA-6C-1
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 22.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 24.89 | SMA-6C-1 | SMA-6C-1 | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

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## Manual Basin: SMA-6C-2

Scenario: Icpr3
Node: SMA-6C-2
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 21.00 min

Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
| --- | --- | --- | --- |
| 35.80 | SMA-6C-2 | SMA-6C-2 | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Manual Basin: SMA-6C-3

Scenario: Icpr3
Node: SMA-6C-3
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 19.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
| --- | --- | --- | --- |
| 42.33 | SMA-6C-3 | SMA-6C-3 | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Manual Basin: SMA-7B

Scenario: Icpr3
Node: SMA-7B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 21.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
| --- | --- | --- | --- |
| 36.50 | SMA-7B | SMA-7B | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Manual Basin: W11-1

Scenario: Icpr3
Node: W11-1
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 22.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256

Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 11.13 | W11-1 | W11-1 | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Manual Basin: W11-7

Scenario: Icpr3
Node: TW-W11-7
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 122.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 192.77 | W11-7 | W11-7 | |

Comment:

## Manual Basin: W12

Scenario: Icpr3
Node: W12
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 64.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 102.52 | W12 | W12 | |

Comment: From permitted calculations for "Innovation Way Phase II" (SFWMD app. no. 151202-17)

## Manual Basin: W13

Scenario: Icpr3
Node: W13
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 60.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 142.13 | W13 | W13 | |

Comment:

## Manual Basin: W14

Scenario: Icpr3
Node: W14
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 17.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 8.27 | W14 | W14 | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Manual Basin: W17

Scenario: Icpr3
Node: W17
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 10.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 11.67 | W17 | W17 | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Manual Basin: W18

Scenario: Icpr3
Node: W18
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 44.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 38.14 | W18 | W18 | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Manual Basin: W20

Scenario: Icpr3
Node: W20
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 63.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 55.01 | W20 | W20 | |

Comment:

## Manual Basin: W21

Scenario: Icpr3
Node: W21
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 18.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 7.59 | W21 | W21 | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Manual Basin: W24

Scenario: Icpr3
Node: W24
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 52.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 54.15 | W24 | W24 | |

Comment:

## Manual Basin: W24A

Scenario: Icpr3
Node: W24A

Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 82.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 85.60 | W24A | W24A | |

Comment:

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## Manual Basin: W25A

Scenario: Icpr3
Node: W25A
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 20.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 17.20 | W25A | W25A | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SJRWMD app. no. 2270-17)

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## Manual Basin: W25B

Scenario: Icpr3
Node: W25B
Hydrograph Method: NRCS Unit Hydrograph
Infiltration Method: Curve Number
Time of Concentration: 26.00 min
Max Allowable Q: 999999.00 cfs
Time Shift: 0.00 hr
Unit Hydrograph: UH256
Peaking Factor: 256

| Area [ac] | Land Cover Zone | Soil Zone | Rainfall Name |
|---|---|---|---|
| 48.15 | W25B | W25B | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SJRWMD app. no. 2270-17)

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## Node: ES-W11-1

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 75.00 ft
Warning Stage: 76.25 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 75.00 | 0.04 | 1655 |
| 76.00 | 0.14 | 6055 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

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Node: ES-W14

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 76.10 ft
Warning Stage: 77.35 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 76.10 | 0.05 | 2091 |
| 77.10 | 0.18 | 7710 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

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Node: ES-W17

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 74.00 ft
Warning Stage: 75.25 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 74.00 | 0.11 | 4661 |
| 75.00 | 0.39 | 17032 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

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Node: ES-W21

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 75.00 ft
Warning Stage: 76.25 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 75.00 | 0.08 | 3441 |
| 76.00 | 0.29 | 12632 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Node: ES-W24

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 73.00 ft
Warning Stage: 74.25 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 73.00 | 0.05 | 1960 |
| 74.00 | 0.16 | 7144 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Node: ES-W24A

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 72.10 ft
Warning Stage: 73.35 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 72.10 | 0.13 | 5706 |
| 73.10 | 0.48 | 20909 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Node: N-077

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 67.69 ft
Warning Stage: 84.28 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 67.64 | 0.00 | 0 |
| 68.78 | 0.10 | 4356 |
| 69.28 | 0.66 | 28750 |
| 69.78 | 1.20 | 52272 |
| 70.28 | 2.55 | 111078 |
| 70.78 | 3.45 | 150282 |
| 71.28 | 4.80 | 209088 |
| 71.78 | 6.13 | 267023 |
| 72.28 | 7.91 | 344560 |
| 72.78 | 9.79 | 426452 |
| 73.28 | 11.86 | 516622 |
| 73.78 | 13.51 | 588496 |
| 74.28 | 15.58 | 678665 |
| 74.78 | 17.21 | 749668 |
| 75.28 | 19.57 | 852469 |
| 75.78 | 23.83 | 1038035 |
| 76.28 | 27.19 | 1184396 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 76.78 | 27.71 | 1207048 |
| 77.28 | 27.90 | 1215324 |
| 77.78 | 28.03 | 1220987 |
| 78.28 | 28.13 | 1225343 |
| 78.78 | 28.19 | 1227956 |
| 79.28 | 28.26 | 1231006 |
| 79.78 | 28.32 | 1233619 |
| 80.28 | 28.37 | 1235797 |
| 80.78 | 28.42 | 1237975 |
| 81.28 | 28.48 | 1240589 |
| 81.78 | 28.54 | 1243202 |
| 82.28 | 28.57 | 1244509 |
| 82.78 | 28.63 | 1247123 |
| 83.28 | 28.68 | 1249301 |
| 83.78 | 28.70 | 1250172 |
| 84.28 | 28.72 | 1251043 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

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Node: N-078

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 69.65 ft
Warning Stage: 78.61 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 69.11 | 0.00 | 0 |
| 69.61 | 0.34 | 14810 |
| 70.11 | 3.99 | 173804 |
| 70.61 | 7.96 | 346738 |
| 71.11 | 15.24 | 663854 |
| 71.61 | 23.08 | 1005365 |
| 72.11 | 29.31 | 1276744 |
| 72.61 | 32.06 | 1396534 |
| 73.11 | 33.92 | 1477555 |
| 73.61 | 34.20 | 1489752 |
| 74.11 | 34.54 | 1504562 |
| 74.61 | 34.66 | 1509790 |
| 75.11 | 35.01 | 1525036 |
| 75.61 | 35.44 | 1543766 |
| 76.11 | 37.54 | 1635242 |
| 76.61 | 37.63 | 1639163 |
| 77.11 | 37.67 | 1640905 |
| 77.61 | 37.70 | 1642212 |
| 78.11 | 37.74 | 1643954 |
| 78.61 | 37.76 | 1644826 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-080

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 68.00 ft
Warning Stage: 76.91 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 66.41 | 0.00 | 0 |
| 66.91 | 0.31 | 13504 |
| 67.41 | 1.32 | 57499 |
| 67.91 | 2.27 | 98881 |
| 68.41 | 5.58 | 243065 |
| 68.91 | 8.66 | 377230 |
| 69.41 | 12.64 | 550598 |
| 69.91 | 17.94 | 781466 |
| 70.41 | 25.53 | 1112087 |
| 70.91 | 34.79 | 1515452 |
| 71.41 | 41.33 | 1800335 |
| 71.91 | 45.06 | 1962814 |
| 72.41 | 49.60 | 2160576 |
| 72.91 | 53.88 | 2347013 |
| 73.41 | 55.98 | 2438489 |
| 73.91 | 57.10 | 2487276 |
| 74.41 | 58.02 | 2527351 |
| 74.91 | 59.03 | 2571347 |
| 75.41 | 60.12 | 2618827 |
| 75.91 | 61.15 | 2663694 |
| 76.41 | 61.80 | 2692008 |
| 76.91 | 61.88 | 2695493 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-081

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 68.00 ft
Warning Stage: 71.13 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 65.63 | 0.00 | 0 |
| 66.13 | 0.33 | 14375 |
| 66.63 | 1.76 | 76666 |
| 67.13 | 3.93 | 171191 |
| 67.63 | 4.75 | 206910 |
| 68.13 | 6.25 | 272250 |
| 68.63 | 9.28 | 404237 |
| 69.13 | 12.42 | 541015 |
| 69.63 | 14.82 | 645559 |
| 70.13 | 16.50 | 718740 |
| 70.63 | 17.72 | 771883 |
| 71.13 | 18.09 | 788000 |

Comment:

## Node: N-082

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 68.50 ft
Warning Stage: 73.40 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 66.40 | 0.00 | 0 |
| 66.90 | 0.10 | 4356 |
| 67.40 | 1.01 | 43996 |
| 67.90 | 1.62 | 70567 |
| 68.40 | 2.80 | 121968 |
| 68.90 | 3.92 | 170755 |
| 69.40 | 6.80 | 296208 |
| 69.90 | 9.57 | 416869 |
| 70.40 | 11.27 | 490921 |
| 70.90 | 12.13 | 528383 |
| 71.40 | 13.52 | 588931 |
| 71.90 | 14.37 | 625957 |
| 72.40 | 15.94 | 694346 |
| 72.90 | 17.06 | 743134 |
| 73.40 | 17.32 | 754459 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-083A

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 69.00 ft
Warning Stage: 71.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 69.00 | 0.00 | 0 |
| 69.50 | 0.02 | 871 |
| 70.00 | 0.11 | 4792 |
| 70.50 | 0.58 | 25265 |
| 71.00 | 1.51 | 65776 |

Comment:

## Node: N-083B

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs

Initial Stage: 67.69 ft
Warning Stage: 68.50 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 67.50 | 0.16 | 6970 |
| 68.00 | 0.38 | 16553 |
| 68.50 | 0.81 | 35284 |

Comment:

## Node: N-084A

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 69.00 ft
Warning Stage: 71.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 69.00 | 0.00 | 0 |
| 69.50 | 0.03 | 1307 |
| 70.00 | 0.32 | 13939 |
| 70.50 | 1.06 | 46174 |
| 71.00 | 2.24 | 97574 |

Comment:

## Node: N-084B

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 68.50 ft
Warning Stage: 70.50 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 68.50 | 0.00 | 0 |
| 69.00 | 0.01 | 436 |
| 69.50 | 0.22 | 9583 |
| 70.00 | 0.64 | 27878 |
| 70.50 | 1.18 | 51401 |

Comment:

## Node: N-084C

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 66.50 ft
Warning Stage: 69.50 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 66.50 | 0.00 | 0 |
| 67.00 | 0.05 | 2178 |
| 67.50 | 0.28 | 12197 |
| 68.00 | 0.88 | 38333 |
| 68.50 | 2.05 | 89298 |
| 69.00 | 3.91 | 170320 |
| 69.50 | 8.00 | 348480 |
| 70.00 | 14.80 | 644688 |

Comment:

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Node: N-084D

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 65.30 ft
Warning Stage: 66.50 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 65.00 | 0.71 | 30928 |
| 65.50 | 8.20 | 357192 |
| 66.00 | 37.61 | 1638292 |
| 66.50 | 94.21 | 4103788 |

Comment:

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Node: N-085

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 65.30 ft
Warning Stage: 68.12 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 64.12 | 0.00 | 0 |
| 64.62 | 1.61 | 70132 |
| 65.12 | 5.30 | 230868 |
| 65.62 | 6.98 | 304049 |
| 66.12 | 9.63 | 419483 |
| 66.62 | 11.44 | 498326 |
| 67.12 | 12.56 | 547114 |
| 67.62 | 13.04 | 568022 |
| 68.12 | 13.10 | 570636 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-086

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 69.00 ft
Warning Stage: 72.34 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 67.34 | 0.00 | 0 |
| 67.84 | 0.06 | 2614 |
| 68.35 | 0.14 | 6098 |
| 68.84 | 0.18 | 7841 |
| 69.34 | 0.24 | 10454 |
| 69.84 | 0.41 | 17860 |
| 70.34 | 0.91 | 39640 |
| 70.84 | 1.30 | 56628 |
| 71.34 | 1.67 | 72745 |
| 71.84 | 1.96 | 85378 |
| 72.34 | 2.01 | 87556 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-087

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 68.00 ft
Warning Stage: 72.05 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 67.05 | 0.00 | 0 |
| 67.55 | 0.31 | 13504 |
| 68.05 | 2.93 | 127631 |
| 68.55 | 3.43 | 149411 |
| 69.05 | 4.23 | 184259 |
| 69.55 | 6.49 | 282704 |
| 70.05 | 9.14 | 398138 |
| 70.55 | 10.28 | 447797 |
| 71.05 | 10.89 | 474368 |
| 71.55 | 11.25 | 490050 |
| 72.05 | 11.44 | 498326 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-088

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 66.00 ft
Warning Stage: 69.68 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 64.18 | 0.00 | 0 |
| 64.68 | 2.79 | 121532 |
| 65.18 | 7.89 | 343688 |
| 65.68 | 21.35 | 930006 |
| 66.18 | 31.07 | 1353409 |
| 66.68 | 34.52 | 1503691 |
| 67.18 | 44.42 | 1934935 |
| 67.68 | 57.34 | 2497730 |
| 68.18 | 71.16 | 3099730 |
| 68.68 | 78.17 | 3405085 |
| 69.18 | 81.32 | 3542299 |
| 69.68 | 83.10 | 3619836 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-089

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 64.98 ft
Warning Stage: 70.36 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 64.52 | 0.00 | 0 |
| 64.86 | 0.01 | 436 |
| 65.37 | 0.03 | 1307 |
| 65.86 | 0.08 | 3485 |
| 66.36 | 0.81 | 35284 |
| 66.86 | 1.45 | 63162 |
| 67.36 | 2.25 | 98010 |
| 67.86 | 3.38 | 147233 |
| 68.36 | 5.14 | 223898 |
| 68.86 | 7.56 | 329314 |
| 69.36 | 13.11 | 571072 |
| 69.86 | 14.59 | 635540 |
| 70.36 | 14.77 | 643381 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-133

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 65.87 ft
Warning Stage: 81.80 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 65.87 | 0.00 | 0 |
| 66.30 | 0.01 | 436 |
| 66.80 | 0.08 | 3485 |

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 67.30 | 0.98 | 42689 |
| 67.80 | 2.65 | 115434 |
| 68.30 | 5.82 | 253519 |
| 68.80 | 10.04 | 437342 |
| 69.30 | 13.86 | 603742 |
| 69.80 | 19.56 | 852034 |
| 70.30 | 28.53 | 1242767 |
| 70.80 | 42.08 | 1833005 |
| 71.30 | 56.06 | 2441974 |
| 71.80 | 68.86 | 2999542 |
| 72.30 | 77.71 | 3385048 |
| 72.80 | 83.99 | 3658604 |
| 73.30 | 86.16 | 3753130 |
| 73.80 | 86.50 | 3767940 |
| 74.30 | 86.63 | 3773603 |
| 74.80 | 86.70 | 3776652 |
| 75.31 | 86.75 | 3778830 |
| 75.81 | 86.81 | 3781444 |
| 76.30 | 86.85 | 3783186 |
| 76.80 | 86.88 | 3784493 |
| 77.31 | 86.92 | 3786235 |
| 77.80 | 86.95 | 3787542 |
| 78.30 | 86.98 | 3788849 |
| 78.81 | 87.01 | 3790156 |
| 79.30 | 87.04 | 3791462 |
| 79.80 | 87.07 | 3792769 |
| 80.31 | 87.10 | 3794076 |
| 80.80 | 87.12 | 3794947 |
| 81.30 | 87.15 | 3796254 |
| 81.80 | 87.17 | 3797125 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Node: N-134A

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 69.98 ft
Warning Stage: 71.50 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 69.00 | 0.00 | 0 |
| 70.00 | 2.73 | 118919 |
| 70.50 | 7.50 | 326700 |
| 71.00 | 16.24 | 707414 |
| 71.50 | 28.88 | 1258013 |

Comment:

## Node: N-134B

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 71.00 ft
Warning Stage: 73.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 71.00 | 0.00 | 0 |
| 71.50 | 0.01 | 436 |
| 72.00 | 0.07 | 3049 |
| 72.50 | 0.54 | 23522 |
| 73.00 | 1.77 | 77101 |

Comment:

## Node: N-135

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 70.00 ft
Warning Stage: 71.50 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 70.00 | 0.38 | 16553 |
| 70.50 | 0.83 | 36155 |
| 71.00 | 1.33 | 57935 |
| 71.50 | 1.96 | 85378 |

Comment:

## Node: N-136A

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 68.17 ft
Warning Stage: 70.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 68.00 | 2.03 | 88427 |
| 68.50 | 5.94 | 258746 |
| 69.00 | 10.82 | 471319 |
| 69.50 | 17.12 | 745747 |
| 70.00 | 25.34 | 1103810 |

Comment:

## Node: N-136B

Scenario: Icpr3

Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 71.50 ft
Warning Stage: 73.50 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 71.50 | 0.00 | 0 |
| 72.00 | 0.03 | 1307 |
| 72.50 | 0.50 | 21780 |
| 73.00 | 2.00 | 87120 |
| 73.50 | 5.15 | 224334 |

Comment:

## Node: N-137A

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 70.75 ft
Warning Stage: 73.91 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 70.75 | 0.00 | 0 |
| 71.00 | 0.01 | 261 |
| 71.25 | 0.02 | 653 |
| 71.50 | 0.04 | 1742 |
| 71.75 | 0.10 | 4356 |
| 72.00 | 0.20 | 8712 |
| 72.25 | 0.42 | 18295 |
| 72.50 | 0.76 | 33106 |

Comment:

## Node: N-137B

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 70.00 ft
Warning Stage: 72.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 67.90 | 0.00 | 0 |
| 68.50 | 0.07 | 3049 |
| 69.00 | 0.21 | 9148 |
| 69.50 | 0.44 | 19166 |
| 70.00 | 0.73 | 31799 |
| 70.50 | 1.14 | 49658 |
| 71.00 | 1.71 | 74488 |
| 71.50 | 2.42 | 105415 |
| 72.00 | 3.43 | 149411 |

Comment:

Node: N-138

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 70.50 ft
Warning Stage: 76.20 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 68.20 | 0.00 | 0 |
| 68.70 | 0.08 | 3485 |
| 69.20 | 0.17 | 7405 |
| 69.70 | 0.24 | 10454 |
| 70.20 | 0.36 | 15682 |
| 70.70 | 0.49 | 21344 |
| 71.20 | 0.78 | 33977 |
| 71.70 | 1.40 | 60984 |
| 72.20 | 2.26 | 98446 |
| 72.70 | 3.17 | 138085 |
| 73.20 | 4.24 | 184694 |
| 73.70 | 5.35 | 233046 |
| 74.20 | 6.51 | 283576 |
| 74.70 | 7.97 | 347173 |
| 75.20 | 9.19 | 400316 |
| 75.70 | 9.34 | 406850 |
| 76.20 | 9.35 | 407286 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

Node: N-139A

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 72.00 ft
Warning Stage: 73.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 72.00 | 0.00 | 0 |
| 72.25 | 0.02 | 871 |
| 72.50 | 0.07 | 3049 |
| 72.75 | 0.13 | 5663 |
| 73.00 | 0.21 | 9148 |

Comment:

Node: N-139B

Scenario: Icpr3

Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 64.50 ft
Warning Stage: 65.25 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 64.50 | 4.98 | 216929 |
| 64.75 | 10.37 | 451717 |
| 65.00 | 19.46 | 847678 |
| 65.25 | 30.52 | 1329451 |

Comment:

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Node: N-153

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 64.71 ft
Warning Stage: 71.93 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 63.43 | 0.00 | 0 |
| 63.93 | 0.33 | 14375 |
| 64.43 | 1.25 | 54450 |
| 64.93 | 2.64 | 114998 |
| 65.43 | 4.51 | 196456 |
| 65.93 | 7.13 | 310583 |
| 66.43 | 11.43 | 497891 |
| 66.93 | 16.09 | 700880 |
| 67.43 | 18.73 | 815879 |
| 67.93 | 20.82 | 906919 |
| 68.43 | 23.34 | 1016690 |
| 68.93 | 25.26 | 1100326 |
| 69.43 | 28.23 | 1229699 |
| 69.93 | 32.43 | 1412651 |
| 70.43 | 33.27 | 1449241 |
| 70.93 | 33.41 | 1455340 |
| 71.43 | 33.46 | 1457518 |
| 71.93 | 33.48 | 1458389 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

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Node: N-154A

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 66.50 ft
Warning Stage: 67.25 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 66.50 | 4.44 | 193406 |

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 66.75 | 5.78 | 251777 |
| 67.00 | 7.36 | 320602 |
| 67.25 | 9.27 | 403801 |

Comment:

## Node: N-154B

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 71.50 ft
Warning Stage: 73.50 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 71.50 | 0.00 | 0 |
| 72.00 | 0.11 | 4792 |
| 72.50 | 0.50 | 21780 |
| 73.00 | 1.39 | 60548 |
| 73.50 | 2.62 | 114127 |

Comment:

## Node: N-155A

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 64.71 ft
Warning Stage: 67.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 64.50 | 0.01 | 436 |
| 65.00 | 0.37 | 16117 |
| 65.50 | 2.06 | 89734 |
| 66.00 | 6.60 | 287496 |
| 66.50 | 14.17 | 617245 |
| 67.00 | 24.18 | 1053281 |

Comment:

## Node: N-155B

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 64.71 ft
Warning Stage: 67.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 64.50 | 0.00 | 0 |
| 65.00 | 0.01 | 436 |
| 65.50 | 0.09 | 3920 |
| 66.00 | 0.97 | 42253 |
| 66.50 | 3.25 | 141570 |
| 67.00 | 6.53 | 284447 |

Comment:

Node: N-156A

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 64.00 ft
Warning Stage: 67.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 64.00 | 0.51 | 22216 |
| 64.50 | 1.12 | 48787 |
| 65.00 | 1.90 | 82764 |
| 65.50 | 2.90 | 126324 |
| 66.00 | 4.07 | 177289 |
| 66.50 | 5.52 | 240451 |
| 67.00 | 7.29 | 317552 |
| 67.50 | 9.64 | 419918 |
| 68.00 | 12.49 | 544064 |

Comment:

Node: N-156B

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 66.00 ft
Warning Stage: 67.50 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 66.00 | 0.00 | 0 |
| 66.50 | 0.15 | 6534 |
| 67.00 | 0.44 | 19166 |
| 67.50 | 0.75 | 32670 |

Comment:

Node: N-156C

Scenario: Icpr3
Type: Stage/Volume

Base Flow: 0.00 cfs
Initial Stage: 64.00 ft
Warning Stage: 66.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 64.00 | 1.09 | 47480 |
| 64.50 | 1.68 | 73181 |
| 65.00 | 2.35 | 102366 |
| 65.50 | 3.13 | 136343 |
| 66.00 | 4.00 | 174240 |

Comment:

## Node: N-156D

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 66.50 ft
Warning Stage: 68.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 66.50 | 0.00 | 0 |
| 67.00 | 0.02 | 871 |
| 67.50 | 0.26 | 11326 |
| 68.00 | 0.75 | 32670 |

Comment:

## Node: RR-2

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 73.00 ft
Warning Stage: 77.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 73.00 | 0.00 | 0 |
| 74.00 | 0.01 | 436 |
| 75.00 | 0.18 | 8015 |
| 76.00 | 1.68 | 73181 |
| 77.00 | 5.79 | 252212 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SJRWMD app. no. 20270-17).

## Node: RR-3

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs

Initial Stage: 74.00 ft
Warning Stage: 76.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 73.00 | 0.00 | 0 |
| 74.00 | 0.08 | 3485 |
| 75.00 | 0.84 | 36590 |
| 76.00 | 3.27 | 142441 |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

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Node: SMA-1

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 69.00 ft
Warning Stage: 72.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 69.00 | 0.00 | 0 |
| 70.00 | 1.30 | 56628 |
| 71.00 | 2.75 | 119790 |
| 72.00 | 4.35 | 189486 |
| 73.00 | 6.20 | 270072 |

Comment:

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Node: SMA-13

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 69.00 ft
Warning Stage: 73.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 69.00 | 3.91 | 170320 |
| 70.00 | 4.12 | 179467 |
| 71.00 | 4.34 | 189050 |
| 72.00 | 4.57 | 199069 |
| 73.00 | 4.79 | 208652 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SJRWMD app. no. 20270-17).

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Node: SMA-2

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 67.50 ft

Warning Stage: 70.50 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 67.50 | 0.00 | 0 |
| 68.50 | 1.31 | 57064 |
| 69.50 | 2.73 | 118919 |
| 70.50 | 4.28 | 186437 |
| 71.50 | 6.02 | 262231 |

Comment:

## Node: SMA-3

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 70.50 ft
Warning Stage: 74.50 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 70.50 | 0.00 | 0 |
| 71.50 | 1.37 | 59677 |
| 72.50 | 2.86 | 124582 |
| 73.50 | 4.47 | 194713 |
| 74.50 | 6.22 | 270943 |
| 75.50 | 8.16 | 355450 |

Comment:

## Node: SMA-4

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 71.50 ft
Warning Stage: 75.50 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 71.50 | 0.00 | 0 |
| 72.50 | 1.42 | 61855 |
| 73.50 | 2.96 | 128938 |
| 74.50 | 4.62 | 201247 |
| 75.50 | 6.41 | 279220 |
| 76.50 | 8.40 | 365904 |

Comment:

## Node: SMA-5

Scenario: Icpr3
Type: Stage/Volume

Base Flow: 0.00 cfs
Initial Stage: 66.00 ft
Warning Stage: 69.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 66.00 | 0.00 | 0 |
| 67.00 | 1.73 | 75359 |
| 68.00 | 3.58 | 155945 |
| 69.00 | 5.57 | 242629 |
| 70.00 | 7.76 | 338026 |

Comment:

## Node: SMA-6A-1

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 75.00 ft
Warning Stage: 79.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 75.00 | 8.02 | 349351 |
| 75.50 | 8.18 | 356321 |
| 76.50 | 8.49 | 369824 |
| 77.50 | 8.81 | 383764 |
| 78.50 | 9.13 | 397703 |
| 79.00 | 10.19 | 443876 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Node: SMA-6A-2

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 74.25 ft
Warning Stage: 78.25 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 74.25 | 1.18 | 51401 |
| 74.75 | 1.23 | 53579 |
| 75.75 | 1.34 | 58370 |
| 76.75 | 1.46 | 63598 |
| 77.75 | 1.58 | 68825 |
| 78.25 | 1.99 | 86684 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Node: SMA-6B

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 73.00 ft
Warning Stage: 77.00 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 73.00 | 1.61 | 70132 |
| 73.50 | 1.67 | 72745 |
| 74.50 | 1.79 | 77972 |
| 75.50 | 1.91 | 83200 |
| 76.50 | 2.04 | 88862 |
| 77.00 | 2.48 | 108029 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

Node: SMA-6C-1

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 72.50 ft
Warning Stage: 76.50 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 72.50 | 2.52 | 109771 |
| 73.00 | 2.60 | 113256 |
| 74.00 | 2.76 | 120226 |
| 75.00 | 2.92 | 127195 |
| 76.00 | 3.08 | 134165 |
| 76.50 | 3.63 | 158123 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

Node: SMA-6C-2

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 73.50 ft
Warning Stage: 77.50 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 73.50 | 2.85 | 124146 |
| 74.00 | 2.94 | 128066 |
| 75.00 | 3.11 | 135472 |
| 76.00 | 3.29 | 143312 |
| 77.00 | 3.47 | 151153 |
| 77.50 | 4.07 | 177289 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Node: SMA-6C-3

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 73.50 ft
Warning Stage: 77.50 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 73.50 | 6.00 | 261360 |
| 74.00 | 6.12 | 266587 |
| 75.00 | 6.36 | 277042 |
| 76.00 | 6.61 | 287932 |
| 77.00 | 6.86 | 298822 |
| 77.50 | 7.11 | 309712 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Node: SMA-7B

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 73.50 ft
Warning Stage: 77.50 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 73.50 | 5.63 | 245243 |
| 74.00 | 5.75 | 250470 |
| 75.00 | 5.99 | 260924 |
| 76.00 | 6.24 | 271814 |
| 77.00 | 6.56 | 285754 |
| 77.50 | 6.74 | 293594 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Node: TW-N-075

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 69.00 ft
Warning Stage: 70.00 ft
Boundary Stage: TW-N-075

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 69.00 |
| 0 | 0 | 0 | 999.00 | 69.00 |

Comment:

## Node: TW-N-090

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 65.00 ft
Warning Stage: 66.50 ft
Boundary Stage: TW-N-090

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 65.00 |
| 0 | 0 | 0 | 999.00 | 65.00 |

Comment:

## Node: TW-N-091

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 64.80 ft
Warning Stage: 65.00 ft
Boundary Stage:

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 64.80 |
| 0 | 0 | 0 | 999.00 | 64.80 |

Comment:

## Node: TW-N-131

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 63.20 ft
Warning Stage: 66.60 ft
Boundary Stage: TW-N-131

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 63.20 |
| 0 | 0 | 0 | 999.00 | 63.20 |

Comment:

## Node: TW-N-141

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 64.00 ft
Warning Stage: 64.50 ft

Boundary Stage:

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 64.00 |
| 0 | 0 | 0 | 999.00 | 64.00 |

Comment:

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## Node: TW-N-157

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 64.70 ft
Warning Stage: 75.44 ft
Boundary Stage: TW-N-157

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 64.70 |
| 0 | 0 | 0 | 999.00 | 64.70 |

Comment:

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## Node: TW-N-158

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 64.70 ft
Warning Stage: 66.00 ft
Boundary Stage: TW-N-158

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 64.70 |
| 0 | 0 | 0 | 999.00 | 64.70 |

Comment:

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## Node: TW-N29

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 75.00 ft
Warning Stage: 76.00 ft
Boundary Stage:

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 75.00 |
| 0 | 0 | 0 | 999.00 | 75.00 |

Comment:

## Node: TW-W11-7

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 71.20 ft
Warning Stage: 71.30 ft
Boundary Stage:

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 71.20 |
| 0 | 0 | 0 | 999.00 | 71.20 |

Comment:

## Node: TW-W22

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 70.00 ft
Warning Stage: 75.00 ft
Boundary Stage:

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 70.00 |
| 0 | 0 | 0 | 999.00 | 70.00 |

Comment:

## Node: TW-W37-3

Scenario: Icpr3
Type: Time/Stage
Base Flow: 0.00 cfs
Initial Stage: 62.30 ft
Warning Stage: 66.50 ft
Boundary Stage: TW-W37-3

| Year | Month | Day | Hour | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 65.50 |
| 0 | 0 | 0 | 999.00 | 65.50 |

Comment:

## Node: W11-1

Scenario: Icpr3

Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 74.00 ft
Warning Stage: 74.12 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 72.50 | 0.00 | 0 |
| 73.00 | 0.19 | 8276 |
| 74.00 | 3.56 | 155074 |
| 75.00 | 11.08 | 482645 |
| 76.00 | 21.90 | 953964 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Node: W12

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 81.02 ft
Warning Stage: 83.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 80.00 | 0.95 | 41382 |
| 81.00 | 25.12 | 1094227 |
| 82.00 | 77.92 | 3394195 |
| 83.00 | 152.66 | 6649870 |

Comment: From permitted calculations for "Innovation Way Phase II" (SFWMD app. no. 151202-17)

## Node: W13

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 75.00 ft
Warning Stage: 75.20 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 73.50 | 0.00 | 0 |
| 74.00 | 12.07 | 525769 |
| 74.50 | 19.80 | 862488 |
| 75.00 | 30.76 | 1339906 |
| 75.50 | 38.65 | 1683594 |
| 76.00 | 46.72 | 2035123 |
| 76.50 | 54.64 | 2380118 |
| 77.00 | 64.02 | 2788711 |

Comment:

## Node: W14

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 75.10 ft
Warning Stage: 75.34 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 73.50 | 0.00 | 0 |
| 74.00 | 0.16 | 6970 |
| 75.00 | 2.56 | 111514 |
| 76.00 | 8.39 | 365468 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Node: W17

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 73.00 ft
Warning Stage: 73.67 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 71.00 | 0.00 | 0 |
| 72.00 | 0.72 | 31363 |
| 73.00 | 5.93 | 258311 |
| 74.00 | 15.81 | 688684 |
| 75.00 | 27.23 | 1186139 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Node: W18

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 73.00 ft
Warning Stage: 73.90 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 71.00 | 0.00 | 0 |
| 72.00 | 0.58 | 25265 |
| 73.00 | 4.93 | 214751 |
| 74.00 | 14.54 | 633362 |
| 75.00 | 30.76 | 1339906 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Node: W20

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 73.00 ft
Warning Stage: 73.30 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 72.00 | 4.53 | 197327 |
| 72.50 | 11.25 | 490050 |
| 73.00 | 17.47 | 760993 |
| 73.50 | 24.14 | 1051538 |
| 74.00 | 32.55 | 1417878 |
| 74.50 | 38.69 | 1685336 |
| 75.00 | 42.68 | 1859141 |

Comment:

Node: W21

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 74.00 ft
Warning Stage: 74.24 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 72.00 | 0.00 | 0 |
| 73.00 | 0.51 | 22216 |
| 74.00 | 3.79 | 165092 |
| 75.00 | 9.66 | 420790 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

Node: W24

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 71.73 ft
Warning Stage: 72.70 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 70.50 | 0.00 | 0 |
| 71.00 | 3.48 | 151589 |
| 71.50 | 13.45 | 585882 |
| 72.00 | 22.43 | 977051 |
| 72.50 | 27.37 | 1192237 |
| 73.00 | 32.54 | 1417442 |
| 73.50 | 38.94 | 1696226 |
| 74.00 | 42.66 | 1858270 |

Comment:

## Node: W24A

Scenario: Icpr3
Type: Stage/Area
Base Flow: 0.00 cfs
Initial Stage: 71.10 ft
Warning Stage: 72.15 ft

| Stage [ft] | Area [ac] | Area [ft2] |
|---|---|---|
| 69.00 | 0.00 | 0 |
| 70.00 | 0.07 | 3049 |
| 70.50 | 0.64 | 27878 |
| 71.00 | 3.43 | 149411 |
| 71.50 | 7.98 | 347609 |
| 72.00 | 16.70 | 727452 |
| 72.50 | 26.45 | 1152162 |
| 73.00 | 35.38 | 1541153 |

Comment:

## Node: W25A

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 69.00 ft
Warning Stage: 70.50 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 68.00 | 0.01 | 436 |
| 69.00 | 0.67 | 29185 |
| 70.00 | 9.24 | 402494 |
| 71.00 | 24.90 | 1084644 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SJRWMD app. no. 2270-17)

## Node: W25B

Scenario: Icpr3
Type: Stage/Volume
Base Flow: 0.00 cfs
Initial Stage: 69.00 ft
Warning Stage: 74.00 ft

| Stage [ft] | Volume [ac-ft] | Volume [ft3] |
|---|---|---|
| 67.00 | 0.00 | 0 |
| 68.00 | 0.59 | 25700 |
| 69.00 | 6.68 | 290981 |
| 70.00 | 20.76 | 904306 |
| 71.00 | 44.15 | 1923174 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SJRWMD app. no. 2270-17)

| Pipe Link: CC1-155A-155B | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 65.75 ft | Invert: | 65.00 ft |
| From Node: | N-155A | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-155B | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 200.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 74 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.70 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Comment: | | | | | |

| Pipe Link: CC2-155A-155B | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 64.75 ft | Invert: | 64.50 ft |
| From Node: | N-155A | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-155B | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 200.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 74 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.70 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Comment: | | | | | |

| Pipe Link: CCW11-1W11-7 | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 74.00 ft | Invert: | 73.25 ft |
| From Node: | W11-1 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-W11-7 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 155.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 74 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.70 | 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 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2). | | | | | |

| Pipe Link: CCW13W11-1 | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 75.00 ft | Invert: | 74.50 ft |
| From Node: | W13 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | W11-1 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 100.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 74 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.70 | 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 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0000 | Manning's N: | 0.0000 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

| Drop Structure Link: CS-13 | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 66.00 ft | Invert: | 65.50 ft |
| From Node: | SMA-13 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | W25A | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 3.00 ft | Max Depth: | 3.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Solution: | Split | Default: | 0.00 ft | Default: | 0.00 ft |
| Pipe Count: | 1 | Op Table: | | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | | Ref Node: | |
| Length: | 50.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| FHWA Code: | 1 | Top Clip | | | |
| Entr Loss Coef: | 0.50 | Default: | 0.00 ft | Default: | 0.00 ft |
| Exit Loss Coef: | 1.00 | Op Table: | | Op Table: | |
| Bend Loss Coef: | 0.00 | Ref Node: | | Ref Node: | |
| Bend Location: | 0.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Energy Switch: | Energy | | | | |

Pipe Comment:

| Weir Component | | | |
|---|---|---|---|
| Weir: | 1 | Bottom Clip | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | Top Clip | |
| Geometry Type: | Circular | Default: | 0.00 ft |
| Invert: | 68.50 ft | Op Table: | |
| Control Elevation: | 69.00 ft | Ref Node: | |
| Max Depth: | 0.38 ft | Discharge Coefficients | |
| | | Weir Default: | 3.2 |
| | | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SJRWMD app. no. 2270-17)

| Weir Component | | | |
|---|---|---|---|
| Weir: | 2 | Bottom Clip | |
| Weir Count: | 3 | Default: | 0.00 ft |

| | | | |
|---|---|---|---|
| Weir Flow Direction: | Both | | |
| Damping: | 0.0000 ft | Op Table: | |
| Weir Type: | Sharp Crested Vertical | Ref Node: | |
| Geometry Type: | Rectangular | **Top Clip** | |
| Invert: | 70.75 ft | Default: | 0.00 ft |
| Control Elevation: | 70.75 ft | Op Table: | |
| Max Depth: | 1.00 ft | Ref Node: | |
| Max Width: | 2.00 ft | **Discharge Coefficients** | |
| Fillet: | 0.00 ft | Weir Default: | 3.2 |
| | | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SJRWMD app. no. 2270-17)

| Weir Component | | | |
|---|---|---|---|
| Weir: | 3 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | **Top Clip** | |
| Geometry Type: | Rectangular | Default: | 0.00 ft |
| Invert: | 72.00 ft | Op Table: | |
| Control Elevation: | 72.00 ft | Ref Node: | |
| Max Depth: | 3.00 ft | **Discharge Coefficients** | |
| Max Width: | 4.50 ft | Weir Default: | 3.2 |
| Fillet: | 0.00 ft | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SJRWMD app. no. 2270-17)

Drop Structure Comment: From International Corporate Park (aka Sunbridge) post-development model (SJRWMD app. no. 2270-17)

| Drop Structure Link: CS-6A-1 | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 74.50 ft | Invert: | 74.00 ft |
| From Node: | SMA-6A-1 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | W13 | **Geometry: Circular** | | **Geometry: Circular** | |
| Link Count: | 1 | Max Depth: | 1.25 ft | Max Depth: | 1.25 ft |
| Flow Direction: | Both | **Bottom Clip** | | | |
| Solution: | Combine | Default: | 0.00 ft | Default: | 0.00 ft |
| Increments: | 10 | Op Table: | | Op Table: | |
| Pipe Count: | 1 | Ref Node: | | Ref Node: | |
| Damping: | 0.0000 ft | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Length: | 50.00 ft | **Top Clip** | | | |
| FHWA Code: | 1 | Default: | 0.00 ft | Default: | 0.00 ft |
| Entr Loss Coef: | 0.50 | Op Table: | | Op Table: | |
| Exit Loss Coef: | 1.00 | Ref Node: | | Ref Node: | |
| Bend Loss Coef: | 0.00 | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Bend Location: | 0.00 ft | | | | |
| Energy Switch: | Energy | | | | |

Pipe Comment:

| Weir Component | | | |
|---|---|---|---|
| Weir: | 1 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |

| | | | |
|---|---|---|---|
| Weir Flow Direction: | Both | | |
| Damping: | 0.0000 ft | Op Table: | |
| Weir Type: | Sharp Crested Vertical | Ref Node: | |
| Geometry Type: | Rectangular | **Top Clip** | |
| Invert: | 75.00 ft | Default: | 0.00 ft |
| Control Elevation: | 75.00 ft | Op Table: | |
| Max Depth: | 0.25 ft | Ref Node: | |
| Max Width: | 0.58 ft | **Discharge Coefficients** | |
| Fillet: | 0.00 ft | Weir Default: | 3.2 |
| | | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

| Weir Component | | | |
|---|---|---|---|
| Weir: | 2 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | **Top Clip** | |
| Geometry Type: | Rectangular | Default: | 0.00 ft |
| Invert: | 79.00 ft | Op Table: | |
| Control Elevation: | 79.00 ft | Ref Node: | |
| Max Depth: | 2.00 ft | **Discharge Coefficients** | |
| Max Width: | 3.08 ft | Weir Default: | 3.2 |
| Fillet: | 0.00 ft | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

Drop Structure Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

---

| Drop Structure Link: CS-6A-2 | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 73.75 ft | Invert: | 73.25 ft |
| From Node: | SMA-6A-2 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | W18 | **Geometry: Circular** | | **Geometry: Circular** | |
| Link Count: | 1 | Max Depth: | 1.25 ft | Max Depth: | 1.25 ft |
| Flow Direction: | Both | **Bottom Clip** | | | |
| Solution: | Combine | Default: | 0.00 ft | Default: | 0.00 ft |
| Increments: | 10 | Op Table: | | Op Table: | |
| Pipe Count: | 1 | Ref Node: | | Ref Node: | |
| Damping: | 0.0000 ft | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Length: | 55.00 ft | **Top Clip** | | | |
| FHWA Code: | 1 | Default: | 0.00 ft | Default: | 0.00 ft |
| Entr Loss Coef: | 0.50 | Op Table: | | Op Table: | |
| Exit Loss Coef: | 1.00 | Ref Node: | | Ref Node: | |
| Bend Loss Coef: | 0.00 | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Bend Location: | 0.00 ft | | | | |
| Energy Switch: | Energy | | | | |

Pipe Comment:

| Weir Component | | | |
|---|---|---|---|
| Weir: | 1 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |

| | | | |
|---|---|---|---|
| Weir Flow Direction: | Both | | |
| Damping: | 0.0000 ft | Op Table: | |
| Weir Type: | Horizontal | Ref Node: | |
| | | **Top Clip** | |
| Geometry Type: | Circular | | |
| Invert: | 73.75 ft | Default: | 0.00 ft |
| Control Elevation: | 74.25 ft | Op Table: | |
| Max Depth: | 0.42 ft | Ref Node: | |
| | | **Discharge Coefficients** | |
| | | Weir Default: | 3.2 |
| | | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

| Weir Component | | | |
|---|---|---|---|
| Weir: | 2 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | **Top Clip** | |
| Geometry Type: | Rectangular | Default: | 0.00 ft |
| Invert: | 78.25 ft | Op Table: | |
| Control Elevation: | 78.25 ft | Ref Node: | |
| Max Depth: | 2.00 ft | **Discharge Coefficients** | |
| Max Width: | 3.08 ft | Weir Default: | 3.2 |
| Fillet: | 0.00 ft | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

Drop Structure Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

---

| Drop Structure Link: CS-6B | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 72.50 ft | Invert: | 72.00 ft |
| From Node: | SMA-6B | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | W24A | **Geometry: Circular** | | **Geometry: Circular** | |
| Link Count: | 1 | Max Depth: | 1.25 ft | Max Depth: | 1.25 ft |
| Flow Direction: | Both | **Bottom Clip** | | | |
| Solution: | Combine | Default: | 0.00 ft | Default: | 0.00 ft |
| Increments: | 10 | Op Table: | | Op Table: | |
| Pipe Count: | 1 | Ref Node: | | Ref Node: | |
| Damping: | 0.0000 ft | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Length: | 45.00 ft | **Top Clip** | | | |
| FHWA Code: | 1 | Default: | 0.00 ft | Default: | 0.00 ft |
| Entr Loss Coef: | 0.50 | Op Table: | | Op Table: | |
| Exit Loss Coef: | 1.00 | Ref Node: | | Ref Node: | |
| Bend Loss Coef: | 0.00 | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Bend Location: | 0.00 ft | | | | |
| Energy Switch: | Energy | | | | |

Pipe Comment:

| Weir Component | | | |
|---|---|---|---|
| Weir: | 1 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |

| | | | |
|---|---|---|---|
| Weir Flow Direction: | Both | | |
| Damping: | 0.0000 ft | Op Table: | |
| Weir Type: | Horizontal | Ref Node: | |
| Geometry Type: | Circular | **Top Clip** | |
| Invert: | 72.50 ft | Default: | 0.00 ft |
| Control Elevation: | 73.00 ft | Op Table: | |
| Max Depth: | 0.50 ft | Ref Node: | |
| | | **Discharge Coefficients** | |
| | | Weir Default: | 3.2 |
| | | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

| Weir Component | | | |
|---|---|---|---|
| Weir: | 2 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | **Top Clip** | |
| Geometry Type: | Rectangular | Default: | 0.00 ft |
| Invert: | 77.00 ft | Op Table: | |
| Control Elevation: | 77.00 ft | Ref Node: | |
| Max Depth: | 2.00 ft | **Discharge Coefficients** | |
| Max Width: | 3.08 ft | Weir Default: | 3.2 |
| Fillet: | 0.00 ft | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

Drop Structure Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

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| Drop Structure Link: CS-6C-1 | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 72.00 ft | Invert: | 71.50 ft |
| From Node: | SMA-6C-1 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | W24A | **Geometry: Circular** | | **Geometry: Circular** | |
| Link Count: | 1 | Max Depth: | 1.25 ft | Max Depth: | 1.25 ft |
| Flow Direction: | Both | **Bottom Clip** | | | |
| Solution: | Combine | Default: | 0.00 ft | Default: | 0.00 ft |
| Increments: | 10 | Op Table: | | Op Table: | |
| Pipe Count: | 1 | Ref Node: | | Ref Node: | |
| Damping: | 0.0000 ft | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Length: | 45.00 ft | **Top Clip** | | | |
| FHWA Code: | 1 | Default: | 0.00 ft | Default: | 0.00 ft |
| Entr Loss Coef: | 0.50 | Op Table: | | Op Table: | |
| Exit Loss Coef: | 1.00 | Ref Node: | | Ref Node: | |
| Bend Loss Coef: | 0.00 | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Bend Location: | 0.00 ft | | | | |
| Energy Switch: | Energy | | | | |

Pipe Comment:

| Weir Component | | | |
|---|---|---|---|
| Weir: | 1 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |

| | | | |
|---|---|---|---|
| Weir Flow Direction: | Both | | |
| Damping: | 0.0000 ft | Op Table: | |
| Weir Type: | Horizontal | Ref Node: | |
| Geometry Type: | Circular | **Top Clip** | |
| Invert: | 72.00 ft | Default: | 0.00 ft |
| Control Elevation: | 72.50 ft | Op Table: | |
| Max Depth: | 0.50 ft | Ref Node: | |
| | | **Discharge Coefficients** | |
| | | Weir Default: | 3.2 |
| | | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

| Weir Component | | | |
|---|---|---|---|
| Weir: | 2 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | **Top Clip** | |
| Geometry Type: | Rectangular | Default: | 0.00 ft |
| Invert: | 76.50 ft | Op Table: | |
| Control Elevation: | 76.50 ft | Ref Node: | |
| Max Depth: | 2.00 ft | **Discharge Coefficients** | |
| Max Width: | 3.08 ft | Weir Default: | 3.2 |
| Fillet: | 0.00 ft | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

Drop Structure Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

| Drop Structure Link: CS-6C-2 | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 70.50 ft | Invert: | 70.00 ft |
| From Node: | SMA-6C-2 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | W20 | **Geometry: Circular** | | **Geometry: Circular** | |
| Link Count: | 1 | Max Depth: | 3.00 ft | Max Depth: | 3.00 ft |
| Flow Direction: | Both | **Bottom Clip** | | | |
| Solution: | Combine | Default: | 0.00 ft | Default: | 0.00 ft |
| Increments: | 10 | Op Table: | | Op Table: | |
| Pipe Count: | 2 | Ref Node: | | Ref Node: | |
| Damping: | 0.0000 ft | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Length: | 220.00 ft | **Top Clip** | | | |
| FHWA Code: | 1 | Default: | 0.00 ft | Default: | 0.00 ft |
| Entr Loss Coef: | 0.50 | Op Table: | | Op Table: | |
| Exit Loss Coef: | 1.00 | Ref Node: | | Ref Node: | |
| Bend Loss Coef: | 0.00 | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Bend Location: | 0.00 ft | | | | |
| Energy Switch: | Energy | | | | |

Pipe Comment:

| Weir Component | | | |
|---|---|---|---|
| Weir: | 1 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |

| | | | |
|---|---|---|---|
| Weir Flow Direction: | Both | | |
| Damping: | 0.0000 ft | Op Table: | |
| Weir Type: | Sharp Crested Vertical | Ref Node: | |
| Geometry Type: | Rectangular | **Top Clip** | |
| Invert: | 73.50 ft | Default: | 0.00 ft |
| Control Elevation: | 73.50 ft | Op Table: | |
| Max Depth: | 0.33 ft | Ref Node: | |
| Max Width: | 0.83 ft | **Discharge Coefficients** | |
| Fillet: | 0.00 ft | Weir Default: | 3.2 |
| | | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

| Weir Component | | | |
|---|---|---|---|
| Weir: | 2 | **Bottom Clip** | |
| Weir Count: | 2 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Sharp Crested Vertical | **Top Clip** | |
| Geometry Type: | Rectangular | Default: | 0.00 ft |
| Invert: | 74.75 ft | Op Table: | |
| Control Elevation: | 74.75 ft | Ref Node: | |
| Max Depth: | 1.00 ft | **Discharge Coefficients** | |
| Max Width: | 3.00 ft | Weir Default: | 3.2 |
| Fillet: | 0.00 ft | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

| Weir Component | | | |
|---|---|---|---|
| Weir: | 3 | **Bottom Clip** | |
| Weir Count: | 2 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | **Top Clip** | |
| Geometry Type: | Rectangular | Default: | 0.00 ft |
| Invert: | 76.25 ft | Op Table: | |
| Control Elevation: | 76.25 ft | Ref Node: | |
| Max Depth: | 3.00 ft | **Discharge Coefficients** | |
| Max Width: | 4.50 ft | Weir Default: | 3.2 |
| Fillet: | 0.00 ft | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

Drop Structure Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

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| Drop Structure Link: CS-7B | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 73.00 ft | Invert: | 72.50 ft |
| From Node: | SMA-7B | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-W11-7 | **Geometry: Circular** | | **Geometry: Circular** | |
| Link Count: | 1 | Max Depth: | 1.25 ft | Max Depth: | 1.25 ft |
| Flow Direction: | Both | **Bottom Clip** | | | |

| | | | | | |
|---|---|---|---|---|---|
| Solution: | Combine | Default: | 0.00 ft | Default: | 0.00 ft |
| Increments: | 10 | Op Table: | | Op Table: | |
| Pipe Count: | 1 | Ref Node: | | Ref Node: | |
| Damping: | 0.0000 ft | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Length: | 2737.77 ft | Top Clip | | | |
| FHWA Code: | 1 | Default: | 0.00 ft | Default: | 0.00 ft |
| Entr Loss Coef: | 0.50 | Op Table: | | Op Table: | |
| Exit Loss Coef: | 1.00 | Ref Node: | | Ref Node: | |
| Bend Loss Coef: | 0.00 | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Bend Location: | 0.00 ft | | | | |
| Energy Switch: | Energy | | | | |

Pipe Comment:

| Weir Component | | Bottom Clip | |
|---|---|---|---|
| Weir: | 1 | Default: | 0.00 ft |
| Weir Count: | 1 | Op Table: | |
| Weir Flow Direction: | Both | Ref Node: | |
| Damping: | 0.0000 ft | Top Clip | |
| Weir Type: | Sharp Crested Vertical | Default: | 0.00 ft |
| Geometry Type: | Rectangular | Op Table: | |
| Invert: | 73.50 ft | Ref Node: | |
| Control Elevation: | 73.50 ft | Discharge Coefficients | |
| Max Depth: | 0.25 ft | Weir Default: | 3.2 |
| Max Width: | 0.42 ft | Weir Table: | |
| Fillet: | 0.00 ft | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

| Weir Component | | Bottom Clip | |
|---|---|---|---|
| Weir: | 2 | Default: | 0.00 ft |
| Weir Count: | 1 | Op Table: | |
| Weir Flow Direction: | Both | Ref Node: | |
| Damping: | 0.0000 ft | Top Clip | |
| Weir Type: | Horizontal | Default: | 0.00 ft |
| Geometry Type: | Rectangular | Op Table: | |
| Invert: | 77.50 ft | Ref Node: | |
| Control Elevation: | 77.50 ft | Discharge Coefficients | |
| Max Depth: | 2.00 ft | Weir Default: | 3.2 |
| Max Width: | 3.08 ft | Weir Table: | |
| Fillet: | 0.00 ft | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

Drop Structure Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

| Drop Structure Link: CS-SMA-1 | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 68.10 ft | Invert: | 68.00 ft |
| From Node: | SMA-1 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-082 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.50 ft | Max Depth: | 1.50 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Solution: | Split | Default: | 0.00 ft | Default: | 0.00 ft |

| | | | | | |
|---|---|---|---|---|---|
| Pipe Count: | 1 | Op Table: | | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | | Ref Node: | |
| Length: | 50.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| FHWA Code: | 1 | **Top Clip** | | | |
| Entr Loss Coef: | 0.50 | Default: | 0.00 ft | Default: | 0.00 ft |
| Exit Loss Coef: | 1.00 | Op Table: | | Op Table: | |
| Bend Loss Coef: | 0.00 | Ref Node: | | Ref Node: | |
| Bend Location: | 0.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Energy Switch: | Energy | | | | |

Pipe Comment:

| Weir Component | | | |
|---|---|---|---|
| Weir: | 1 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | **Top Clip** | |
| Geometry Type: | Circular | Default: | 0.00 ft |
| Invert: | 68.50 ft | Op Table: | |
| Control Elevation: | 69.00 ft | Ref Node: | |
| Max Depth: | 0.33 ft | **Discharge Coefficients** | |
| | | Weir Default: | 3.2 |
| | | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment:

| Weir Component | | | |
|---|---|---|---|
| Weir: | 2 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | **Top Clip** | |
| Geometry Type: | Rectangular | Default: | 0.00 ft |
| Invert: | 71.75 ft | Op Table: | |
| Control Elevation: | 71.75 ft | Ref Node: | |
| Max Depth: | 2.00 ft | **Discharge Coefficients** | |
| Max Width: | 3.08 ft | Weir Default: | 3.2 |
| Fillet: | 0.00 ft | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment:

Drop Structure Comment:

---

| Drop Structure Link: CS-SMA-2 | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 66.60 ft | Invert: | 66.50 ft |
| From Node: | SMA-2 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-084D | **Geometry: Circular** | | **Geometry: Circular** | |
| Link Count: | 1 | Max Depth: | 1.50 ft | Max Depth: | 1.50 ft |
| Flow Direction: | Both | **Bottom Clip** | | | |
| Solution: | Split | Default: | 0.00 ft | Default: | 0.00 ft |
| Pipe Count: | 1 | Op Table: | | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | | Ref Node: | |

| | | | | | |
|---|---|---|---|---|---|
| Length: | 50.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| FHWA Code: | 1 | **Top Clip** | | | |
| Entr Loss Coef: | 0.50 | Default: | 0.00 ft | Default: | 0.00 ft |
| Exit Loss Coef: | 1.00 | Op Table: | | Op Table: | |
| Bend Loss Coef: | 0.00 | Ref Node: | | Ref Node: | |
| Bend Location: | 0.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Energy Switch: | Energy | | | | |

Pipe Comment:

**Weir Component**

| | | | |
|---|---|---|---|
| Weir: | 1 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | **Top Clip** | |
| Geometry Type: | Circular | Default: | 0.00 ft |
| Invert: | 67.00 ft | Op Table: | |
| Control Elevation: | 67.50 ft | Ref Node: | |
| Max Depth: | 0.33 ft | **Discharge Coefficients** | |
| | | Weir Default: | 3.2 |
| | | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment:

**Weir Component**

| | | | |
|---|---|---|---|
| Weir: | 2 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | **Top Clip** | |
| Geometry Type: | Rectangular | Default: | 0.00 ft |
| Invert: | 70.25 ft | Op Table: | |
| Control Elevation: | 70.25 ft | Ref Node: | |
| Max Depth: | 2.00 ft | **Discharge Coefficients** | |
| Max Width: | 3.08 ft | Weir Default: | 3.2 |
| Fillet: | 0.00 ft | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment:

Drop Structure Comment:

| Drop Structure Link: CS-SMA-3 | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 69.60 ft | Invert: | 69.50 ft |
| From Node: | SMA-3 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-134A | **Geometry: Circular** | | **Geometry: Circular** | |
| Link Count: | 1 | Max Depth: | 1.50 ft | Max Depth: | 1.50 ft |
| Flow Direction: | Both | **Bottom Clip** | | | |
| Solution: | Split | Default: | 0.00 ft | Default: | 0.00 ft |
| Pipe Count: | 1 | Op Table: | | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | | Ref Node: | |
| Length: | 50.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| FHWA Code: | 1 | **Top Clip** | | | |

| | | | | | |
|---|---|---|---|---|---|
| Entr Loss Coef: | 0.50 | Default: | 0.00 ft | Default: | 0.00 ft |
| Exit Loss Coef: | 1.00 | Op Table: | | Op Table: | |
| Bend Loss Coef: | 0.00 | Ref Node: | | Ref Node: | |
| Bend Location: | 0.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Energy Switch: | Energy | | | | |

Pipe Comment:

| Weir Component | | | |
|---|---|---|---|
| Weir: | 1 | Bottom Clip | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | Top Clip | |
| Geometry Type: | Circular | Default: | 0.00 ft |
| Invert: | 69.50 ft | Op Table: | |
| Control Elevation: | 70.50 ft | Ref Node: | |
| Max Depth: | 0.38 ft | Discharge Coefficients | |
| | | Weir Default: | 3.2 |
| | | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment:

| Weir Component | | | |
|---|---|---|---|
| Weir: | 2 | Bottom Clip | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | Top Clip | |
| Geometry Type: | Rectangular | Default: | 0.00 ft |
| Invert: | 74.00 ft | Op Table: | |
| Control Elevation: | 74.00 ft | Ref Node: | |
| Max Depth: | 2.00 ft | Discharge Coefficients | |
| Max Width: | 3.08 ft | Weir Default: | 3.2 |
| Fillet: | 0.00 ft | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment:

Drop Structure Comment:

| Drop Structure Link: CS-SMA-4 | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 70.60 ft | Invert: | 70.50 ft |
| From Node: | SMA-4 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-136A | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.50 ft | Max Depth: | 1.50 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Solution: | Split | Default: | 0.00 ft | Default: | 0.00 ft |
| Pipe Count: | 1 | Op Table: | | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | | Ref Node: | |
| Length: | 50.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| FHWA Code: | 1 | Top Clip | | | |
| Entr Loss Coef: | 0.50 | Default: | 0.00 ft | Default: | 0.00 ft |
| Exit Loss Coef: | 1.00 | Op Table: | | Op Table: | |

| | | | | | |
|---|---|---|---|---|---|
| Bend Loss Coef: | 0.00 | Ref Node: | | Ref Node: | |
| Bend Location: | 0.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Energy Switch: | Energy | | | | |

Pipe Comment:

| Weir Component | | | |
|---|---|---|---|
| Weir: | 1 | Bottom Clip | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | Top Clip | |
| Geometry Type: | Circular | Default: | 0.00 ft |
| Invert: | 71.00 ft | Op Table: | |
| Control Elevation: | 71.50 ft | Ref Node: | |
| Max Depth: | 0.38 ft | Discharge Coefficients | |
| | | Weir Default: | 3.2 |
| | | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment:

| Weir Component | | | |
|---|---|---|---|
| Weir: | 2 | Bottom Clip | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | Top Clip | |
| Geometry Type: | Rectangular | Default: | 0.00 ft |
| Invert: | 75.50 ft | Op Table: | |
| Control Elevation: | 75.50 ft | Ref Node: | |
| Max Depth: | 2.00 ft | Discharge Coefficients | |
| Max Width: | 3.08 ft | Weir Default: | 3.2 |
| Fillet: | 0.00 ft | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment:

Drop Structure Comment:

| Drop Structure Link: CS-SMA-5 | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 65.10 ft | Invert: | 65.00 ft |
| From Node: | SMA-5 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-156C | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.50 ft | Max Depth: | 1.50 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Solution: | Split | Default: | 0.00 ft | Default: | 0.00 ft |
| Pipe Count: | 1 | Op Table: | | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | | Ref Node: | |
| Length: | 50.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| FHWA Code: | 1 | Top Clip | | | |
| Entr Loss Coef: | 0.50 | Default: | 0.00 ft | Default: | 0.00 ft |
| Exit Loss Coef: | 1.00 | Op Table: | | Op Table: | |
| Bend Loss Coef: | 0.00 | Ref Node: | | Ref Node: | |
| Bend Location: | 0.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Energy Switch: Energy

Pipe Comment:

| Weir Component | | | |
|---|---|---|---|
| Weir: | 1 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | **Top Clip** | |
| Geometry Type: | Circular | Default: | 0.00 ft |
| Invert: | 65.50 ft | Op Table: | |
| Control Elevation: | 66.00 ft | Ref Node: | |
| Max Depth: | 0.38 ft | **Discharge Coefficients** | |
| | | Weir Default: | 3.2 |
| | | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment:

| Weir Component | | | |
|---|---|---|---|
| Weir: | 2 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | **Top Clip** | |
| Geometry Type: | Rectangular | Default: | 0.00 ft |
| Invert: | 68.75 ft | Op Table: | |
| Control Elevation: | 68.75 ft | Ref Node: | |
| Max Depth: | 2.00 ft | **Discharge Coefficients** | |
| Max Width: | 3.08 ft | Weir Default: | 3.2 |
| Fillet: | 0.00 ft | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment:

Drop Structure Comment:

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| Drop Structure Link: DS-084B | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 62.61 ft | Invert: | 62.29 ft |
| From Node: | N-084D | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-091 | **Geometry: Circular** | | **Geometry: Circular** | |
| Link Count: | 1 | Max Depth: | 3.50 ft | Max Depth: | 3.50 ft |
| Flow Direction: | Both | **Bottom Clip** | | | |
| Solution: | Split | Default: | 0.00 ft | Default: | 0.00 ft |
| Pipe Count: | 1 | Op Table: | | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | | Ref Node: | |
| Length: | 24.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| FHWA Code: | 2 | **Top Clip** | | | |
| Entr Loss Coef: | 0.50 | Default: | 0.00 ft | Default: | 0.00 ft |
| Exit Loss Coef: | 1.00 | Op Table: | | Op Table: | |
| Bend Loss Coef: | 0.00 | Ref Node: | | Ref Node: | |
| Bend Location: | 0.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Energy Switch: | Energy | | | | |

Pipe Comment:

| Weir Component | | Bottom Clip | |
|---|---|---|---|
| Weir: | 1 | Default: | 0.00 ft |
| Weir Count: | 1 | Op Table: | |
| Weir Flow Direction: | Both | Ref Node: | |
| Damping: | 0.0000 ft | **Top Clip** | |
| Weir Type: | Broad Crested Vertical | Default: | 0.00 ft |
| Geometry Type: | Rectangular | Op Table: | |
| Invert: | 65.30 ft | Ref Node: | |
| Control Elevation: | 65.30 ft | **Discharge Coefficients** | |
| Max Depth: | 10.00 ft | Weir Default: | 3.0 |
| Max Width: | 100.00 ft | Weir Table: | |
| Fillet: | 0.00 ft | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

Drop Structure Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Drop Structure Link: DS-084C | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 62.33 ft | Invert: | 62.21 ft |
| From Node: | N-084D | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-091 | **Geometry: Circular** | | **Geometry: Circular** | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | **Bottom Clip** | | | |
| Solution: | Split | Default: | 0.00 ft | Default: | 0.00 ft |
| Pipe Count: | 1 | Op Table: | | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | | Ref Node: | |
| Length: | 24.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| FHWA Code: | 2 | **Top Clip** | | | |
| Entr Loss Coef: | 0.20 | Default: | 0.00 ft | Default: | 0.00 ft |
| Exit Loss Coef: | 1.00 | Op Table: | | Op Table: | |
| Bend Loss Coef: | 0.00 | Ref Node: | | Ref Node: | |
| Bend Location: | 0.00 ft | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Energy Switch: | Energy | | | | |

Pipe Comment:

| Weir Component | | Bottom Clip | |
|---|---|---|---|
| Weir: | 1 | Default: | 0.00 ft |
| Weir Count: | 1 | Op Table: | |
| Weir Flow Direction: | Both | Ref Node: | |
| Damping: | 0.0000 ft | **Top Clip** | |
| Weir Type: | Broad Crested Vertical | Default: | 0.00 ft |
| Geometry Type: | Rectangular | Op Table: | |
| Invert: | 65.30 ft | Ref Node: | |
| Control Elevation: | 65.30 ft | **Discharge Coefficients** | |
| Max Depth: | 10.00 ft | Weir Default: | 3.0 |
| Max Width: | 100.00 ft | Weir Table: | |
| Fillet: | 0.00 ft | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

Drop Structure Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: EQ-6C2-3 | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 68.50 ft | Invert: | 68.00 ft |
| From Node: | SMA-6C-3 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | SMA-6C-2 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 4.00 ft | Max Depth: | 4.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 500.00 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: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0000 | Manning's N: | 0.0000 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

| Weir Link: ES-W11-1 | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | ES-W11-1 | Default: | 0.00 ft |
| To Node: | W11-1 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Rectangular | Ref Node: | |
| Invert: | 76.00 ft | Discharge Coefficients | |
| Control Elevation: | 76.00 ft | Weir Default: | 3.0 |
| Max Depth: | 9999.00 ft | Weir Table: | |
| Max Width: | 550.00 ft | Orifice Default: | 0.6 |
| Fillet: | 0.00 ft | Orifice Table: | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

| Weir Link: ES-W14 | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | ES-W14 | Default: | 0.00 ft |
| To Node: | W14 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Rectangular | Ref Node: | |
| Invert: | 77.10 ft | Discharge Coefficients | |
| Control Elevation: | 77.10 ft | Weir Default: | 3.0 |
| Max Depth: | 9999.00 ft | Weir Table: | |
| Max Width: | 700.00 ft | Orifice Default: | 0.6 |
| Fillet: | 0.00 ft | Orifice Table: | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

**Weir Link: ES-W17**

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | ES-W17 | Default: | 0.00 ft |
| To Node: | W17 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Rectangular | Ref Node: | |
| Invert: | 75.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 75.00 ft | Weir Default: | 3.0 |
| Max Depth: | 9999.00 ft | Weir Table: | |
| Max Width: | 1550.00 ft | Orifice Default: | 0.6 |
| Fillet: | 0.00 ft | Orifice Table: | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

**Weir Link: ES-W21**

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | ES-W21 | Default: | 0.00 ft |
| To Node: | W21 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Rectangular | Ref Node: | |
| Invert: | 76.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 76.00 ft | Weir Default: | 3.0 |
| Max Depth: | 9999.00 ft | Weir Table: | |
| Max Width: | 1150.00 ft | Orifice Default: | 0.6 |
| Fillet: | 0.00 ft | Orifice Table: | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

**Weir Link: ES-W24**

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | ES-W24 | Default: | 0.00 ft |
| To Node: | W24 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Rectangular | Ref Node: | |
| Invert: | 74.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 74.00 ft | Weir Default: | 3.0 |
| Max Depth: | 9999.00 ft | Weir Table: | |
| Max Width: | 650.00 ft | Orifice Default: | 0.6 |
| Fillet: | 0.00 ft | Orifice Table: | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

| Weir Link: ES-W24A | | Bottom Clip | |
|---|---|---|---|
| Scenario: | Icpr3 | Default: | 0.00 ft |
| From Node: | ES-W24A | Op Table: | |
| To Node: | W24A | Ref Node: | |
| Link Count: | 1 | **Top Clip** | |
| Flow Direction: | Both | Default: | 0.00 ft |
| Damping: | 0.0000 ft | Op Table: | |
| Weir Type: | Broad Crested Vertical | Ref Node: | |
| Geometry Type: | Rectangular | **Discharge Coefficients** | |
| Invert: | 73.10 ft | Weir Default: | 3.0 |
| Control Elevation: | 73.10 ft | Weir Table: | |
| Max Depth: | 9999.00 ft | Orifice Default: | 0.6 |
| Max Width: | 1900.00 ft | Orifice Table: | |
| Fillet: | 0.00 ft | | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

| Pipe Link: P-077 | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 67.64 ft | Invert: | 67.24 ft |
| From Node: | N-077 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-083A | **Geometry: Circular** | | **Geometry: Circular** | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | **Bottom Clip** | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 25.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | **Top Clip** | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-080A | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 68.36 ft | Invert: | 67.74 ft |
| From Node: | N-080 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-081 | **Geometry: Circular** | | **Geometry: Circular** | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | **Bottom Clip** | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 28.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.20 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | **Top Clip** | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-080B | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 67.98 ft | Invert: | 67.05 ft |
| From Node: | N-080 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-081 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 28.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.20 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-080C | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 67.61 ft | Invert: | 67.57 ft |
| From Node: | N-080 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-081 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 27.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.20 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-081-084D | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 68.00 ft | Invert: | 67.00 ft |
| From Node: | N-081 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-084D | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 2 | 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: | 350.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 74 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.70 | 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 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0000 | Manning's N: | 0.0000 |

Comment:

| Pipe Link: P-083A-083B | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 68.50 ft | Invert: | 68.00 ft |
| From Node: | N-083A | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-083B | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 2 | 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: | 170.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 74 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.70 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Comment: | | | | | |

| Pipe Link: P-084A-084D | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 69.00 ft | Invert: | 68.00 ft |
| From Node: | N-084A | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-084D | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.50 ft | Max Depth: | 1.50 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 175.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 74 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.70 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Comment: | | | | | |

| Pipe Link: P-084B-084D | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 68.50 ft | Invert: | 68.00 ft |
| From Node: | N-084B | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-084D | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 2 | 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: | 175.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 74 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.70 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Comment: | | | | | |

| Pipe Link: P-084C-084D | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 67.75 ft | Invert: | 67.50 ft |
| From Node: | N-084C | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-084D | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 3.00 ft | Max Depth: | 3.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 175.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 74 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.70 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment:

| Pipe Link: P-085A | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 64.00 ft | Invert: | 64.15 ft |
| From Node: | N-085 | Manning's N: | 0.0240 | Manning's N: | 0.0240 |
| To Node: | N-084D | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 21.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 6 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0240 | Manning's N: | 0.0240 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0240 | Manning's N: | 0.0240 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-085B | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 63.88 ft | Invert: | 64.05 ft |
| From Node: | N-085 | Manning's N: | 0.0240 | Manning's N: | 0.0240 |
| To Node: | N-084D | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 21.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 6 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0240 | Manning's N: | 0.0240 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0240 | Manning's N: | 0.0240 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-089 | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 64.52 ft | Invert: | 64.40 ft |
| From Node: | N-089 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-090 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 3.00 ft | Max Depth: | 3.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 15.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.20 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-133A | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 66.03 ft | Invert: | 66.29 ft |
| From Node: | N-133 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-131 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 3.00 ft | Max Depth: | 3.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 43.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-133B | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 65.87 ft | Invert: | 64.40 ft |
| From Node: | N-133 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-131 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.25 ft | Max Depth: | 1.25 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 43.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 6 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-133C | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 66.50 ft | Invert: | 65.81 ft |
| From Node: | N-133 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-131 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.50 ft | Max Depth: | 1.50 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 41.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 6 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-134 | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 69.98 ft | Invert: | 69.39 ft |
| From Node: | N-134A | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-133 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.00 ft | Max Depth: | 1.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 39.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.20 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-136 | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 68.05 ft | Invert: | 68.17 ft |
| From Node: | N-136A | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-133 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.00 ft | Max Depth: | 1.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 41.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.20 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-153A | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 66.12 ft | Invert: | 65.79 ft |
| From Node: | N-153 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-131 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.25 ft | Max Depth: | 1.25 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 40.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 6 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-153B | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 65.16 ft | Invert: | 64.69 ft |
| From Node: | N-153 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-131 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.25 ft | Max Depth: | 1.25 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 40.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 6 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-153C | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 64.64 ft | Invert: | 64.71 ft |
| From Node: | N-153 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-131 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.25 ft | Max Depth: | 1.25 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 41.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 6 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-153D | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 65.04 ft | Invert: | 64.57 ft |
| From Node: | N-153 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-131 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.25 ft | Max Depth: | 1.25 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 43.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 6 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-154B-154A | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 71.75 ft | Invert: | 71.25 ft |
| From Node: | N-154B | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-154A | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.50 ft | Max Depth: | 1.50 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 150.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 74 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.70 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment:

| Pipe Link: P-155A | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 64.38 ft | Invert: | 64.56 ft |
| From Node: | N-155B | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-158 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.50 ft | Max Depth: | 1.50 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 32.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.20 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-155B | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 64.89 ft | Invert: | 64.52 ft |
| From Node: | N-155B | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-N-158 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 1.50 ft | Max Depth: | 1.50 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 33.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 3 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Pipe Link: P-156A-156C | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 62.50 ft | Invert: | 62.50 ft |
| From Node: | N-156A | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | N-156C | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 4 | Max Depth: | 3.00 ft | Max Depth: | 3.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 200.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 5 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.70 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment:

| Pipe Link: RR-2-W25B | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 75.50 ft | Invert: | 74.50 ft |
| From Node: | RR-2 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | W25B | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 128.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 1 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SJRWMD app. no. 2270-17)

## Weir Link: RR3-W24

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | RR-3 | Default: | 0.00 ft |
| To Node: | W24 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 74.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 74.00 ft | Weir Default: | 3.0 |
| Cross Section: | X-RR3-W24 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

## Weir Link: W-077-W25A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-077 | Default: | 0.00 ft |
| To Node: | W25A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 69.90 ft | **Discharge Coefficients** | |
| Control Elevation: | 69.90 ft | Weir Default: | 2.6 |
| Cross Section: | X-077-W25A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-078

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-078 | Default: | 0.00 ft |
| To Node: | TW-N-075 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 69.65 ft | **Discharge Coefficients** | |
| Control Elevation: | 69.65 ft | Weir Default: | 2.6 |
| Cross Section: | XW-078 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-078A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-078 | Default: | 0.00 ft |
| To Node: | N-080 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 70.44 ft | **Discharge Coefficients** | |
| Control Elevation: | 70.44 ft | Weir Default: | 2.6 |
| Cross Section: | XW-078A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-080

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-080 | Default: | 0.00 ft |
| To Node: | N-081 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 69.16 ft | **Discharge Coefficients** | |
| Control Elevation: | 69.16 ft | Weir Default: | 2.6 |
| Cross Section: | XW-080 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-080A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-080 | Default: | 0.00 ft |
| To Node: | N-082 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 69.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 69.00 ft | Weir Default: | 2.6 |
| Cross Section: | XW-080A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-081-084B

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-081 | Default: | 0.00 ft |
| To Node: | N-084B | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 69.07 ft | **Discharge Coefficients** | |
| Control Elevation: | 69.07 ft | Weir Default: | 2.6 |
| Cross Section: | X-081-084B | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-082-084B

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-082 | Default: | 0.00 ft |
| To Node: | N-084B | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 69.01 ft | **Discharge Coefficients** | |
| Control Elevation: | 69.01 ft | Weir Default: | 3.0 |
| Cross Section: | X-082-084B | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-083A-084A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-083A | Default: | 0.00 ft |
| To Node: | N-084A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 70.72 ft | **Discharge Coefficients** | |
| Control Elevation: | 70.72 ft | Weir Default: | 2.6 |
| Cross Section: | X-083A-084A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-083A-W25

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W25A | Default: | 0.00 ft |
| To Node: | N-083A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 69.15 ft | **Discharge Coefficients** | |
| Control Elevation: | 69.15 ft | Weir Default: | 2.6 |
| Cross Section: | X-083A-W25A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-083B-084D

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-083B | Default: | 0.00 ft |
| To Node: | N-084D | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 68.01 ft | **Discharge Coefficients** | |
| Control Elevation: | 68.01 ft | Weir Default: | 2.6 |
| Cross Section: | X-083B-084D | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-083B-W37-3

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-083B | Default: | 0.00 ft |
| To Node: | TW-W37-3 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 67.71 ft | **Discharge Coefficients** | |
| Control Elevation: | 67.71 ft | Weir Default: | 2.6 |
| Cross Section: | X-083B-W37-3 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-084A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-084D | Default: | 0.00 ft |
| To Node: | TW-N-091 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 65.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 65.30 ft | Weir Default: | 2.6 |
| Cross Section: | XW-084A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-084A-082

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-084A | Default: | 0.00 ft |
| To Node: | N-082 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 70.26 ft | **Discharge Coefficients** | |
| Control Elevation: | 70.26 ft | Weir Default: | 2.6 |
| Cross Section: | X-082-084A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-084C-134A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-134A | Default: | 0.00 ft |
| To Node: | N-084C | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 70.90 ft | **Discharge Coefficients** | |
| Control Elevation: | 70.90 ft | Weir Default: | 2.6 |
| Cross Section: | X-084C-134A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

| Weir Link: W-084D-135 | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | N-135 | Default: | 0.00 ft |
| To Node: | N-084D | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 71.05 ft | Discharge Coefficients | |
| Control Elevation: | 71.05 ft | Weir Default: | 2.6 |
| Cross Section: | X-084D-135 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

| Weir Link: W-085 | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | N-085 | Default: | 0.00 ft |
| To Node: | N-084D | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 66.00 ft | Discharge Coefficients | |
| Control Elevation: | 66.00 ft | Weir Default: | 2.6 |
| Cross Section: | XW-085 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Weir Link: W-085A | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | N-085 | Default: | 0.00 ft |
| To Node: | TW-W37-3 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 66.05 ft | Discharge Coefficients | |
| Control Elevation: | 66.05 ft | Weir Default: | 2.6 |
| Cross Section: | XW-085A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-086

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-086 | Default: | 0.00 ft |
| To Node: | N-087 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 70.01 ft | **Discharge Coefficients** | |
| Control Elevation: | 70.01 ft | Weir Default: | 2.6 |
| Cross Section: | XW-086 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-087

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-087 | Default: | 0.00 ft |
| To Node: | N-088 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 68.02 ft | **Discharge Coefficients** | |
| Control Elevation: | 68.02 ft | Weir Default: | 2.6 |
| Cross Section: | XW-087 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-088

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-088 | Default: | 0.00 ft |
| To Node: | N-084D | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 65.67 ft | **Discharge Coefficients** | |
| Control Elevation: | 66.00 ft | Weir Default: | 2.6 |
| Cross Section: | XW-088 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Weir Link: W-089 | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | N-089 | Default: | 0.00 ft |
| To Node: | N-084D | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 67.00 ft | Discharge Coefficients | |
| Control Elevation: | 67.00 ft | Weir Default: | 2.6 |
| Cross Section: | XW-089 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Weir Link: W-090 | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | N-084D | Default: | 0.00 ft |
| To Node: | TW-N-090 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 65.83 ft | Discharge Coefficients | |
| Control Elevation: | 65.83 ft | Weir Default: | 2.6 |
| Cross Section: | XW-090 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Weir Link: W-133 | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | N-133 | Default: | 0.00 ft |
| To Node: | TW-N-131 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 68.08 ft | Discharge Coefficients | |
| Control Elevation: | 68.08 ft | Weir Default: | 2.6 |
| Cross Section: | XW-133 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-134A-139A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-139A | Default: | 0.00 ft |
| To Node: | N-134A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 72.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 72.00 ft | Weir Default: | 2.6 |
| Cross Section: | X-134A-139A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-134B-135

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-134B | Default: | 0.00 ft |
| To Node: | N-135 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 72.08 ft | **Discharge Coefficients** | |
| Control Elevation: | 72.08 ft | Weir Default: | 2.6 |
| Cross Section: | X-134B-135 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-134B-139B

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-134B | Default: | 0.00 ft |
| To Node: | N-139B | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 71.59 ft | **Discharge Coefficients** | |
| Control Elevation: | 71.59 ft | Weir Default: | 2.6 |
| Cross Section: | X-134B-139B | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-136

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-136A | Default: | 0.00 ft |
| To Node: | N-133 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 69.18 ft | **Discharge Coefficients** | |
| Control Elevation: | 69.18 ft | Weir Default: | 2.6 |
| Cross Section: | XW-136 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-136A-137A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-137A | Default: | 0.00 ft |
| To Node: | N-136A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 71.68 ft | **Discharge Coefficients** | |
| Control Elevation: | 71.68 ft | Weir Default: | 2.6 |
| Cross Section: | X-136A-137A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-136B-137B

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-136B | Default: | 0.00 ft |
| To Node: | N-137B | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 71.78 ft | **Discharge Coefficients** | |
| Control Elevation: | 71.78 ft | Weir Default: | 2.6 |
| Cross Section: | X-136B-137B | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-136B-138

| | |
|---|---|
| Scenario: | Icpr3 |
| From Node: | N-136B |
| To Node: | N-138 |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 72.52 ft |
| Control Elevation: | 72.52 ft |
| Cross Section: | W-136B-138 |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**Top Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**Discharge Coefficients**

| | |
|---|---|
| Weir Default: | 2.6 |
| Weir Table: | |
| Orifice Default: | 0.6 |
| Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-136B-139B

| | |
|---|---|
| Scenario: | Icpr3 |
| From Node: | N-136B |
| To Node: | N-139B |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 72.00 ft |
| Control Elevation: | 72.00 ft |
| Cross Section: | X-136B-139B |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**Top Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**Discharge Coefficients**

| | |
|---|---|
| Weir Default: | 2.6 |
| Weir Table: | |
| Orifice Default: | 0.6 |
| Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-136B-154B

| | |
|---|---|
| Scenario: | Icpr3 |
| From Node: | N-136B |
| To Node: | N-154B |
| Link Count: | 1 |
| Flow Direction: | Both |
| Damping: | 0.0000 ft |
| Weir Type: | Broad Crested Vertical |
| Geometry Type: | Irregular |
| Invert: | 72.36 ft |
| Control Elevation: | 72.36 ft |
| Cross Section: | W-136B-154B |

**Bottom Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**Top Clip**

| | |
|---|---|
| Default: | 0.00 ft |
| Op Table: | |
| Ref Node: | |

**Discharge Coefficients**

| | |
|---|---|
| Weir Default: | 2.6 |
| Weir Table: | |
| Orifice Default: | 0.6 |
| Orifice Table: | |

Comment:

| Weir Link: W-137B-139B | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | N-137B | Default: | 0.00 ft |
| To Node: | N-139B | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 70.48 ft | Discharge Coefficients | |
| Control Elevation: | 70.48 ft | Weir Default: | 2.6 |
| Cross Section: | X-137B-139B | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

| Weir Link: W-138 | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | N-138 | Default: | 0.00 ft |
| To Node: | N-139B | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 71.38 ft | Discharge Coefficients | |
| Control Elevation: | 71.38 ft | Weir Default: | 2.6 |
| Cross Section: | XW-138 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

| Weir Link: W-139 | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | N-139B | Default: | 0.00 ft |
| To Node: | TW-N-141 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 64.52 ft | Discharge Coefficients | |
| Control Elevation: | 64.52 ft | Weir Default: | 2.6 |
| Cross Section: | XW-139 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-139A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-139B | Default: | 0.00 ft |
| To Node: | TW-N-141 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 64.55 ft | **Discharge Coefficients** | |
| Control Elevation: | 64.55 ft | Weir Default: | 2.6 |
| Cross Section: | XW-139A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-154

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-154A | Default: | 0.00 ft |
| To Node: | N-153 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 66.62 ft | **Discharge Coefficients** | |
| Control Elevation: | 66.62 ft | Weir Default: | 2.6 |
| Cross Section: | XW-154 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-154A-155A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-154A | Default: | 0.00 ft |
| To Node: | N-155A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 67.03 ft | **Discharge Coefficients** | |
| Control Elevation: | 67.03 ft | Weir Default: | 2.6 |
| Cross Section: | X-154A-155A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-155

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-153 | Default: | 0.00 ft |
| To Node: | N-155A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 66.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 66.00 ft | Weir Default: | 2.6 |
| Cross Section: | XW-155 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From the Innovation Way East-Camino South flood study, dated 9/16.

## Weir Link: W-155A-156A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-155A | Default: | 0.00 ft |
| To Node: | N-156A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 65.83 ft | **Discharge Coefficients** | |
| Control Elevation: | 65.83 ft | Weir Default: | 2.6 |
| Cross Section: | X-155A-156A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-155B-156B

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-156B | Default: | 0.00 ft |
| To Node: | N-155B | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 66.44 ft | **Discharge Coefficients** | |
| Control Elevation: | 66.44 ft | Weir Default: | 2.6 |
| Cross Section: | X-155B-156B | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-155B-156D

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-156D | Default: | 0.00 ft |
| To Node: | N-155B | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 67.46 ft | **Discharge Coefficients** | |
| Control Elevation: | 67.46 ft | Weir Default: | 2.6 |
| Cross Section: | X-155B-156D | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-156A-157

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-156A | Default: | 0.00 ft |
| To Node: | TW-N-157 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 68.03 ft | **Discharge Coefficients** | |
| Control Elevation: | 68.03 ft | Weir Default: | 2.6 |
| Cross Section: | X-156A-157 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-156C-157

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-156C | Default: | 0.00 ft |
| To Node: | TW-N-157 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 64.87 ft | **Discharge Coefficients** | |
| Control Elevation: | 64.87 ft | Weir Default: | 2.6 |
| Cross Section: | X-156C-157 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W-156D-157

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | N-156D | Default: | 0.00 ft |
| To Node: | TW-N-157 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 72.05 ft | **Discharge Coefficients** | |
| Control Elevation: | 72.05 ft | Weir Default: | 2.6 |
| Cross Section: | X-156D-157 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

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## Weir Link: W-6A-1

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | SMA-6A-1 | Default: | 0.00 ft |
| To Node: | W13 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Trapezoidal | Ref Node: | |
| Invert: | 76.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 76.00 ft | Weir Default: | 3.0 |
| Max Depth: | 999.00 ft | Weir Table: | |
| Extrapolation Method: | Vertical Projection | Orifice Default: | 0.6 |
| Bottom Width: | 5.00 ft | Orifice Table: | |
| Left Slope: | 5.000 (h:v) | | |
| Right Slope: | 5.000 (h:v) | | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

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## Weir Link: W-6A-2

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | SMA-6A-2 | Default: | 0.00 ft |
| To Node: | W18 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Trapezoidal | Ref Node: | |
| Invert: | 76.00 ft | **Discharge Coefficients** | |
| Control Elevation: | 76.00 ft | Weir Default: | 3.0 |
| Max Depth: | 999.00 ft | Weir Table: | |
| Extrapolation Method: | Vertical Projection | Orifice Default: | 0.6 |
| Bottom Width: | 5.00 ft | Orifice Table: | |
| Left Slope: | 5.000 (h:v) | | |
| Right Slope: | 5.000 (h:v) | | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Weir Link: W-6B

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | SMA-6B | Default: | 0.00 ft |
| To Node: | W24A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Trapezoidal | Ref Node: | |
| Invert: | 74.50 ft | **Discharge Coefficients** | |
| Control Elevation: | 74.50 ft | Weir Default: | 3.0 |
| Max Depth: | 999.00 ft | Weir Table: | |
| Extrapolation Method: | Vertical Projection | Orifice Default: | 0.6 |
| Bottom Width: | 5.00 ft | Orifice Table: | |
| Left Slope: | 5.000 (h:v) | | |
| Right Slope: | 5.000 (h:v) | | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Weir Link: W-6C-1

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | SMA-6C-1 | Default: | 0.00 ft |
| To Node: | W24A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Trapezoidal | Ref Node: | |
| Invert: | 74.25 ft | **Discharge Coefficients** | |
| Control Elevation: | 74.25 ft | Weir Default: | 3.0 |
| Max Depth: | 999.00 ft | Weir Table: | |
| Extrapolation Method: | Vertical Projection | Orifice Default: | 0.6 |
| Bottom Width: | 5.00 ft | Orifice Table: | |
| Left Slope: | 5.000 (h:v) | | |
| Right Slope: | 5.000 (h:v) | | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Weir Link: W-7B

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | SMA-7B | Default: | 0.00 ft |
| To Node: | TW-W11-7 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Trapezoidal | Ref Node: | |
| Invert: | 75.50 ft | **Discharge Coefficients** | |
| Control Elevation: | 75.50 ft | Weir Default: | 3.0 |
| Max Depth: | 999.00 ft | Weir Table: | |
| Extrapolation Method: | Vertical Projection | Orifice Default: | 0.6 |
| Bottom Width: | 15.00 ft | Orifice Table: | |
| Left Slope: | 5.000 (h:v) | | |

Right Slope: 5.000 (h:v)

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

| Pipe Link: W11-1W11-3 | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 73.00 ft | Invert: | 72.00 ft |
| From Node: | W11-1 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | TW-W11-7 | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 155.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 74 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.70 | 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 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0000 | Manning's N: | 0.0000 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

| Weir Link: W12-N29 | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | W12 | Default: | 0.00 ft |
| To Node: | TW-N29 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 81.40 ft | Discharge Coefficients | |
| Control Elevation: | 83.00 ft | Weir Default: | 3.0 |
| Cross Section: | X-W12-N29 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: Taken from permitted calculations for "Innovation Way Phase II" (SFWMD app. no. 151202-17)

| Weir Link: W12-W13 | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | W12 | Default: | 0.00 ft |
| To Node: | W13 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 81.10 ft | Discharge Coefficients | |
| Control Elevation: | 81.20 ft | Weir Default: | 3.0 |
| Cross Section: | X-W12-W13 | Weir Table: | |

| | |
|---|---|
| Orifice Default: | 0.6 |
| Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

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### Weir Link: W13-N29

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W13 | Default: | 0.00 ft |
| To Node: | TW-N29 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 74.09 ft | **Discharge Coefficients** | |
| Control Elevation: | 75.00 ft | Weir Default: | 3.0 |
| Cross Section: | X-W13-N29 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

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### Pipe Link: W13-W11-1

| | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 74.00 ft | Invert: | 73.50 ft |
| From Node: | W13 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | W11-1 | **Geometry: Circular** | | **Geometry: Circular** | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | **Bottom Clip** | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 100.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 74 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.70 | 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 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0000 | Manning's N: | 0.0000 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

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### Weir Link: W14-N29

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W14 | Default: | 0.00 ft |
| To Node: | TW-N29 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 75.17 ft | **Discharge Coefficients** | |

| | | | |
|---|---|---|---|
| Control Elevation: | 75.17 ft | | |
| Cross Section: | X-W14-N29 | Weir Default: | 3.0 |
| | | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

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| Drop Structure Link: W17-W24A | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 68.00 ft | Invert: | 67.40 ft |
| From Node: | W17 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | W24A | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 1 | Max Depth: | 2.50 ft | Max Depth: | 2.50 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Solution: | Combine | Default: | 0.00 ft | Default: | 0.00 ft |
| Increments: | 10 | Op Table: | | Op Table: | |
| Pipe Count: | 1 | Ref Node: | | Ref Node: | |
| Damping: | 0.0000 ft | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Length: | 305.00 ft | Top Clip | | | |
| FHWA Code: | 1 | Default: | 0.00 ft | Default: | 0.00 ft |
| Entr Loss Coef: | 0.50 | Op Table: | | Op Table: | |
| Exit Loss Coef: | 1.00 | Ref Node: | | Ref Node: | |
| Bend Loss Coef: | 0.00 | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Bend Location: | 0.00 ft | | | | |
| Energy Switch: | Energy | | | | |

Pipe Comment:

| Weir Component | | | |
|---|---|---|---|
| Weir: | 1 | Bottom Clip | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | Top Clip | |
| Geometry Type: | Rectangular | Default: | 0.00 ft |
| Invert: | 73.25 ft | Op Table: | |
| Control Elevation: | 73.25 ft | Ref Node: | |
| Max Depth: | 3.00 ft | Discharge Coefficients | |
| Max Width: | 4.50 ft | Weir Default: | 3.2 |
| Fillet: | 0.00 ft | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

Drop Structure Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

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| Weir Link: W18-W24A | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | W18 | Default: | 0.00 ft |
| To Node: | W24A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |

| | | | |
|---|---|---|---|
| Weir Type: | Broad Crested Vertical | | |
| Geometry Type: | Irregular | Op Table: | |
| Invert: | 73.00 ft | Ref Node: | |
| Control Elevation: | 73.00 ft | **Discharge Coefficients** | |
| Cross Section: | X-W18-W24A | Weir Default: | 3.0 |
| | | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

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## Weir Link: W20-W11-7

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W20 | Default: | 0.00 ft |
| To Node: | TW-W11-7 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 72.71 ft | **Discharge Coefficients** | |
| Control Elevation: | 73.00 ft | Weir Default: | 3.0 |
| Cross Section: | X-W20-W11-7 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

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## Drop Structure Link: W21-W24

| | | Upstream Pipe | | Downstream Pipe | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 71.00 ft | Invert: | 71.00 ft |
| From Node: | W21 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| To Node: | W24 | **Geometry: Circular** | | **Geometry: Circular** | |
| Link Count: | 1 | Max Depth: | 2.00 ft | Max Depth: | 2.00 ft |
| Flow Direction: | Both | **Bottom Clip** | | | |
| Solution: | Combine | Default: | 0.00 ft | Default: | 0.00 ft |
| Increments: | 10 | Op Table: | | Op Table: | |
| Pipe Count: | 1 | Ref Node: | | Ref Node: | |
| Damping: | 0.0000 ft | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Length: | 485.00 ft | **Top Clip** | | | |
| FHWA Code: | 1 | Default: | 0.00 ft | Default: | 0.00 ft |
| Entr Loss Coef: | 0.50 | Op Table: | | Op Table: | |
| Exit Loss Coef: | 1.00 | Ref Node: | | Ref Node: | |
| Bend Loss Coef: | 0.00 | Manning's N: | 0.0000 | Manning's N: | 0.0000 |
| Bend Location: | 0.00 ft | | | | |
| Energy Switch: | Energy | | | | |

Pipe Comment:

### Weir Component

| | | | |
|---|---|---|---|
| Weir: | 1 | **Bottom Clip** | |
| Weir Count: | 1 | Default: | 0.00 ft |
| Weir Flow Direction: | Both | Op Table: | |
| Damping: | 0.0000 ft | Ref Node: | |
| Weir Type: | Horizontal | **Top Clip** | |

| | | | |
|---|---|---|---|
| Geometry Type: | Rectangular | | |
| Invert: | 74.00 ft | Default: | 0.00 ft |
| Control Elevation: | 74.00 ft | Op Table: | |
| Max Depth: | 3.00 ft | Ref Node: | |
| Max Width: | 4.50 ft | **Discharge Coefficients** | |
| Fillet: | 0.00 ft | Weir Default: | 3.2 |
| | | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Weir Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

Drop Structure Comment: From International Corporate Park (aka Sunbridge) post-development model (SFWMD app. no. 170807-2).

## Weir Link: W24-W24A

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W24 | Default: | 0.00 ft |
| To Node: | W24A | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 71.73 ft | **Discharge Coefficients** | |
| Control Elevation: | 71.94 ft | Weir Default: | 3.0 |
| Cross Section: | X-W24-W24A | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W24A-W22

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | **Bottom Clip** | |
| From Node: | W24A | Default: | 0.00 ft |
| To Node: | TW-W22 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | **Top Clip** | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 68.20 ft | **Discharge Coefficients** | |
| Control Elevation: | 71.10 ft | Weir Default: | 3.0 |
| Cross Section: | X-W24A-W22 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment: From International Corporate Park pre-development model (SJRWMD app. no. 20270-15, SFWMD app. No. 151106-12)

## Pipe Link: W25A-W25B

| | | Upstream | | Downstream | |
|---|---|---|---|---|---|
| Scenario: | Icpr3 | Invert: | 67.50 ft | Invert: | 67.25 ft |
| From Node: | W25A | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

| | | | | | |
|---|---|---|---|---|---|
| To Node: | W25B | Geometry: Circular | | Geometry: Circular | |
| Link Count: | 2 | Max Depth: | 3.00 ft | Max Depth: | 3.00 ft |
| Flow Direction: | Both | Bottom Clip | | | |
| Damping: | 0.0000 ft | Default: | 0.00 ft | Default: | 0.00 ft |
| Length: | 125.00 ft | Op Table: | | Op Table: | |
| FHWA Code: | 1 | Ref Node: | | Ref Node: | |
| Entr Loss Coef: | 0.50 | Manning's N: | 0.0120 | Manning's N: | 0.0120 |
| Exit Loss Coef: | 1.00 | Top Clip | | | |
| Bend Loss Coef: | 0.00 | Default: | 0.00 ft | Default: | 0.00 ft |
| Bend Location: | 0.00 ft | Op Table: | | Op Table: | |
| Energy Switch: | Energy | Ref Node: | | Ref Node: | |
| | | Manning's N: | 0.0120 | Manning's N: | 0.0120 |

Comment: From International Corporate Park (aka Sunbridge) post-development model (SJRWMD app. no. 2270-17)

## Weir Link: W25B-083B

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | W25B | Default: | 0.00 ft |
| To Node: | N-083B | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 69.04 ft | Discharge Coefficients | |
| Control Elevation: | 69.04 ft | Weir Default: | 2.6 |
| Cross Section: | W25B-083B | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Weir Link: W25B-W37-3

| | | | |
|---|---|---|---|
| Scenario: | Icpr3 | Bottom Clip | |
| From Node: | W25B | Default: | 0.00 ft |
| To Node: | TW-W37-3 | Op Table: | |
| Link Count: | 1 | Ref Node: | |
| Flow Direction: | Both | Top Clip | |
| Damping: | 0.0000 ft | Default: | 0.00 ft |
| Weir Type: | Broad Crested Vertical | Op Table: | |
| Geometry Type: | Irregular | Ref Node: | |
| Invert: | 69.00 ft | Discharge Coefficients | |
| Control Elevation: | 69.00 ft | Weir Default: | 2.6 |
| Cross Section: | W25B-W37-3 | Weir Table: | |
| | | Orifice Default: | 0.6 |
| | | Orifice Table: | |

Comment:

## Boundary Stage: TW-N-075

Boundary Stage Set: 100-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 69.00 |
| 0 | 0 | 0 | 4.00 | 69.00 |
| 0 | 0 | 0 | 5.00 | 69.10 |
| 0 | 0 | 0 | 5.50 | 69.20 |
| 0 | 0 | 0 | 6.00 | 69.30 |
| 0 | 0 | 0 | 7.00 | 69.40 |
| 0 | 0 | 0 | 7.50 | 69.50 |
| 0 | 0 | 0 | 8.00 | 69.60 |
| 0 | 0 | 0 | 8.50 | 69.70 |
| 0 | 0 | 0 | 9.25 | 69.80 |
| 0 | 0 | 0 | 10.00 | 69.90 |
| 0 | 0 | 0 | 12.50 | 69.90 |
| 0 | 0 | 0 | 13.75 | 69.80 |
| 0 | 0 | 0 | 15.00 | 69.70 |
| 0 | 0 | 0 | 16.25 | 69.60 |
| 0 | 0 | 0 | 17.75 | 69.50 |
| 0 | 0 | 0 | 20.75 | 69.40 |
| 0 | 0 | 0 | 24.50 | 69.30 |
| 0 | 0 | 0 | 30.00 | 69.20 |

Comment:

Boundary Stage: TW-N-090

Boundary Stage Set: 100-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 65.00 |
| 0 | 0 | 0 | 4.50 | 65.00 |
| 0 | 0 | 0 | 5.00 | 65.10 |
| 0 | 0 | 0 | 5.75 | 65.20 |
| 0 | 0 | 0 | 6.25 | 65.30 |
| 0 | 0 | 0 | 6.75 | 65.40 |
| 0 | 0 | 0 | 7.00 | 65.50 |
| 0 | 0 | 0 | 7.25 | 65.60 |
| 0 | 0 | 0 | 7.75 | 65.70 |
| 0 | 0 | 0 | 8.00 | 65.80 |
| 0 | 0 | 0 | 9.25 | 65.90 |
| 0 | 0 | 0 | 10.50 | 66.00 |
| 0 | 0 | 0 | 11.50 | 65.90 |
| 0 | 0 | 0 | 12.25 | 65.80 |
| 0 | 0 | 0 | 13.00 | 65.70 |
| 0 | 0 | 0 | 13.50 | 65.60 |
| 0 | 0 | 0 | 14.25 | 65.50 |
| 0 | 0 | 0 | 15.00 | 65.40 |
| 0 | 0 | 0 | 16.00 | 65.30 |
| 0 | 0 | 0 | 21.00 | 65.20 |
| 0 | 0 | 0 | 25.25 | 65.10 |
| 0 | 0 | 0 | 26.75 | 65.00 |
| 0 | 0 | 0 | 30.00 | 65.00 |

Comment:

## Boundary Stage: TW-N-131

Boundary Stage Set: 100-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 63.20 |
| 0 | 0 | 0 | 5.00 | 63.20 |
| 0 | 0 | 0 | 5.50 | 63.30 |
| 0 | 0 | 0 | 6.00 | 63.40 |
| 0 | 0 | 0 | 6.25 | 63.50 |
| 0 | 0 | 0 | 6.50 | 63.60 |
| 0 | 0 | 0 | 6.75 | 63.70 |
| 0 | 0 | 0 | 7.00 | 63.80 |
| 0 | 0 | 0 | 7.25 | 63.90 |
| 0 | 0 | 0 | 7.50 | 64.00 |
| 0 | 0 | 0 | 7.75 | 64.20 |
| 0 | 0 | 0 | 8.00 | 64.30 |
| 0 | 0 | 0 | 8.25 | 64.40 |
| 0 | 0 | 0 | 8.50 | 64.60 |
| 0 | 0 | 0 | 8.75 | 64.80 |
| 0 | 0 | 0 | 9.00 | 65.00 |
| 0 | 0 | 0 | 9.25 | 65.10 |
| 0 | 0 | 0 | 9.50 | 65.30 |
| 0 | 0 | 0 | 9.75 | 65.50 |
| 0 | 0 | 0 | 10.00 | 65.70 |
| 0 | 0 | 0 | 10.25 | 65.80 |
| 0 | 0 | 0 | 10.50 | 66.00 |
| 0 | 0 | 0 | 10.75 | 66.10 |
| 0 | 0 | 0 | 11.00 | 66.20 |
| 0 | 0 | 0 | 11.25 | 66.30 |
| 0 | 0 | 0 | 11.50 | 66.40 |
| 0 | 0 | 0 | 11.75 | 66.40 |
| 0 | 0 | 0 | 13.50 | 66.50 |
| 0 | 0 | 0 | 16.00 | 66.40 |
| 0 | 0 | 0 | 17.50 | 66.30 |
| 0 | 0 | 0 | 19.50 | 66.20 |
| 0 | 0 | 0 | 22.75 | 66.10 |
| 0 | 0 | 0 | 26.00 | 66.00 |
| 0 | 0 | 0 | 30.00 | 65.90 |

Comment:

## Boundary Stage: TW-N-157

Boundary Stage Set: 100-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 61.00 |
| 0 | 0 | 0 | 6.00 | 61.00 |
| 0 | 0 | 0 | 6.25 | 61.10 |
| 0 | 0 | 0 | 6.50 | 61.30 |
| 0 | 0 | 0 | 6.75 | 61.50 |
| 0 | 0 | 0 | 7.00 | 61.60 |
| 0 | 0 | 0 | 7.25 | 61.70 |
| 0 | 0 | 0 | 7.50 | 61.80 |
| 0 | 0 | 0 | 7.75 | 61.90 |

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 8.00 | 62.10 |
| 0 | 0 | 0 | 8.25 | 62.30 |
| 0 | 0 | 0 | 8.50 | 62.40 |
| 0 | 0 | 0 | 8.75 | 62.70 |
| 0 | 0 | 0 | 9.00 | 62.90 |
| 0 | 0 | 0 | 9.25 | 63.30 |
| 0 | 0 | 0 | 9.50 | 63.50 |
| 0 | 0 | 0 | 9.75 | 63.70 |
| 0 | 0 | 0 | 10.00 | 64.00 |
| 0 | 0 | 0 | 10.25 | 64.30 |
| 0 | 0 | 0 | 10.50 | 64.40 |
| 0 | 0 | 0 | 10.75 | 64.50 |
| 0 | 0 | 0 | 12.75 | 64.50 |
| 0 | 0 | 0 | 15.50 | 64.40 |
| 0 | 0 | 0 | 17.00 | 64.30 |
| 0 | 0 | 0 | 18.75 | 64.20 |
| 0 | 0 | 0 | 20.75 | 64.10 |
| 0 | 0 | 0 | 23.00 | 64.00 |
| 0 | 0 | 0 | 25.25 | 63.90 |
| 0 | 0 | 0 | 27.25 | 63.80 |
| 0 | 0 | 0 | 30.00 | 63.70 |

Comment:

## Boundary Stage: TW-N-158

Boundary Stage Set: 100-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 64.70 |
| 0 | 0 | 0 | 5.00 | 64.70 |
| 0 | 0 | 0 | 6.75 | 64.80 |
| 0 | 0 | 0 | 7.00 | 64.90 |
| 0 | 0 | 0 | 7.50 | 65.00 |
| 0 | 0 | 0 | 8.00 | 65.10 |
| 0 | 0 | 0 | 8.25 | 65.20 |
| 0 | 0 | 0 | 8.50 | 65.30 |
| 0 | 0 | 0 | 8.75 | 65.40 |
| 0 | 0 | 0 | 9.00 | 65.50 |
| 0 | 0 | 0 | 9.50 | 65.60 |
| 0 | 0 | 0 | 10.00 | 65.70 |
| 0 | 0 | 0 | 11.50 | 65.70 |
| 0 | 0 | 0 | 12.50 | 65.60 |
| 0 | 0 | 0 | 13.75 | 65.50 |
| 0 | 0 | 0 | 15.50 | 65.40 |
| 0 | 0 | 0 | 18.75 | 65.30 |
| 0 | 0 | 0 | 24.00 | 65.20 |
| 0 | 0 | 0 | 30.00 | 65.10 |

Comment:

## Boundary Stage: TW-W22

Boundary Stage Set: 100-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 70.00 |
| 0 | 0 | 0 | 3.50 | 70.00 |
| 0 | 0 | 0 | 5.00 | 70.10 |
| 0 | 0 | 0 | 6.00 | 70.30 |
| 0 | 0 | 0 | 7.00 | 70.50 |
| 0 | 0 | 0 | 9.00 | 71.50 |
| 0 | 0 | 0 | 10.00 | 71.90 |
| 0 | 0 | 0 | 11.00 | 72.10 |
| 0 | 0 | 0 | 11.25 | 72.20 |
| 0 | 0 | 0 | 11.50 | 72.20 |
| 0 | 0 | 0 | 11.75 | 72.20 |
| 0 | 0 | 0 | 12.00 | 72.20 |
| 0 | 0 | 0 | 13.00 | 72.00 |
| 0 | 0 | 0 | 14.00 | 71.70 |
| 0 | 0 | 0 | 15.00 | 71.50 |
| 0 | 0 | 0 | 16.00 | 71.40 |
| 0 | 0 | 0 | 18.00 | 71.30 |
| 0 | 0 | 0 | 19.00 | 71.30 |
| 0 | 0 | 0 | 20.00 | 71.20 |
| 0 | 0 | 0 | 21.00 | 71.20 |
| 0 | 0 | 0 | 22.00 | 71.20 |
| 0 | 0 | 0 | 23.00 | 71.20 |
| 0 | 0 | 0 | 24.00 | 71.10 |
| 0 | 0 | 0 | 30.00 | 70.80 |

Comment:

## Boundary Stage: TW-W37-3

Boundary Stage Set: 100-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 65.50 |
| 0 | 0 | 0 | 4.00 | 65.50 |
| 0 | 0 | 0 | 5.75 | 65.60 |
| 0 | 0 | 0 | 7.00 | 65.70 |
| 0 | 0 | 0 | 7.50 | 65.80 |
| 0 | 0 | 0 | 8.00 | 65.90 |
| 0 | 0 | 0 | 8.50 | 66.00 |
| 0 | 0 | 0 | 9.00 | 66.10 |
| 0 | 0 | 0 | 9.25 | 66.20 |
| 0 | 0 | 0 | 9.50 | 66.30 |
| 0 | 0 | 0 | 10.00 | 66.40 |
| 0 | 0 | 0 | 11.25 | 66.40 |
| 0 | 0 | 0 | 11.75 | 66.30 |
| 0 | 0 | 0 | 12.50 | 66.20 |
| 0 | 0 | 0 | 12.75 | 66.20 |
| 0 | 0 | 0 | 13.50 | 66.10 |
| 0 | 0 | 0 | 14.75 | 66.00 |
| 0 | 0 | 0 | 16.25 | 65.90 |
| 0 | 0 | 0 | 19.00 | 65.80 |

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 23.50 | 65.70 |
| 0 | 0 | 0 | 30.00 | 65.60 |

Comment:

## Boundary Stage: TW-N-075

Boundary Stage Set: 25-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 69.00 |
| 0 | 0 | 0 | 4.00 | 69.00 |
| 0 | 0 | 0 | 5.00 | 69.10 |
| 0 | 0 | 0 | 5.50 | 69.10 |
| 0 | 0 | 0 | 6.00 | 69.20 |
| 0 | 0 | 0 | 7.00 | 69.30 |
| 0 | 0 | 0 | 7.50 | 69.40 |
| 0 | 0 | 0 | 8.00 | 69.50 |
| 0 | 0 | 0 | 8.50 | 69.60 |
| 0 | 0 | 0 | 9.25 | 69.70 |
| 0 | 0 | 0 | 10.00 | 69.80 |
| 0 | 0 | 0 | 12.50 | 69.80 |
| 0 | 0 | 0 | 13.75 | 69.70 |
| 0 | 0 | 0 | 15.00 | 69.60 |
| 0 | 0 | 0 | 16.25 | 69.50 |
| 0 | 0 | 0 | 17.75 | 69.40 |
| 0 | 0 | 0 | 20.75 | 69.30 |
| 0 | 0 | 0 | 24.50 | 69.30 |
| 0 | 0 | 0 | 30.00 | 69.20 |

Comment:

## Boundary Stage: TW-N-090

Boundary Stage Set: 25-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 65.00 |
| 0 | 0 | 0 | 4.50 | 65.00 |
| 0 | 0 | 0 | 5.00 | 65.00 |
| 0 | 0 | 0 | 5.75 | 65.10 |
| 0 | 0 | 0 | 6.25 | 65.20 |
| 0 | 0 | 0 | 6.75 | 65.30 |
| 0 | 0 | 0 | 7.00 | 65.40 |
| 0 | 0 | 0 | 7.25 | 65.50 |
| 0 | 0 | 0 | 7.75 | 65.60 |
| 0 | 0 | 0 | 8.00 | 65.70 |
| 0 | 0 | 0 | 9.25 | 65.90 |
| 0 | 0 | 0 | 10.50 | 65.90 |
| 0 | 0 | 0 | 11.50 | 65.80 |
| 0 | 0 | 0 | 12.25 | 65.60 |
| 0 | 0 | 0 | 13.00 | 65.50 |

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 13.50 | 65.50 |
| 0 | 0 | 0 | 14.25 | 65.40 |
| 0 | 0 | 0 | 15.00 | 65.30 |
| 0 | 0 | 0 | 16.00 | 65.30 |
| 0 | 0 | 0 | 21.00 | 65.20 |
| 0 | 0 | 0 | 25.25 | 65.10 |
| 0 | 0 | 0 | 26.75 | 65.00 |
| 0 | 0 | 0 | 30.00 | 65.00 |

Comment:

## Boundary Stage: TW-N-131

Boundary Stage Set: 25-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 63.20 |
| 0 | 0 | 0 | 5.00 | 63.20 |
| 0 | 0 | 0 | 5.50 | 63.20 |
| 0 | 0 | 0 | 6.00 | 63.30 |
| 0 | 0 | 0 | 6.25 | 63.40 |
| 0 | 0 | 0 | 6.50 | 63.40 |
| 0 | 0 | 0 | 6.75 | 63.50 |
| 0 | 0 | 0 | 7.00 | 63.60 |
| 0 | 0 | 0 | 7.25 | 63.70 |
| 0 | 0 | 0 | 7.50 | 63.80 |
| 0 | 0 | 0 | 7.75 | 63.90 |
| 0 | 0 | 0 | 8.00 | 64.10 |
| 0 | 0 | 0 | 8.25 | 64.20 |
| 0 | 0 | 0 | 8.50 | 64.30 |
| 0 | 0 | 0 | 8.75 | 64.50 |
| 0 | 0 | 0 | 9.00 | 64.70 |
| 0 | 0 | 0 | 9.25 | 64.80 |
| 0 | 0 | 0 | 9.50 | 65.00 |
| 0 | 0 | 0 | 9.75 | 65.10 |
| 0 | 0 | 0 | 10.00 | 65.30 |
| 0 | 0 | 0 | 10.25 | 65.40 |
| 0 | 0 | 0 | 10.50 | 65.50 |
| 0 | 0 | 0 | 10.75 | 65.70 |
| 0 | 0 | 0 | 11.00 | 65.80 |
| 0 | 0 | 0 | 11.25 | 65.90 |
| 0 | 0 | 0 | 11.50 | 66.00 |
| 0 | 0 | 0 | 11.75 | 66.00 |
| 0 | 0 | 0 | 13.50 | 66.30 |
| 0 | 0 | 0 | 16.00 | 66.30 |
| 0 | 0 | 0 | 17.50 | 66.20 |
| 0 | 0 | 0 | 19.50 | 66.10 |
| 0 | 0 | 0 | 22.75 | 66.10 |
| 0 | 0 | 0 | 26.00 | 66.00 |
| 0 | 0 | 0 | 30.00 | 65.80 |

Comment:

## Boundary Stage: TW-N-157

Boundary Stage Set: 25-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 61.00 |
| 0 | 0 | 0 | 6.00 | 61.00 |
| 0 | 0 | 0 | 6.25 | 61.00 |
| 0 | 0 | 0 | 6.50 | 61.10 |
| 0 | 0 | 0 | 6.75 | 61.20 |
| 0 | 0 | 0 | 7.00 | 61.40 |
| 0 | 0 | 0 | 7.25 | 61.50 |
| 0 | 0 | 0 | 7.50 | 61.60 |
| 0 | 0 | 0 | 7.75 | 61.70 |
| 0 | 0 | 0 | 8.00 | 61.90 |
| 0 | 0 | 0 | 8.25 | 62.00 |
| 0 | 0 | 0 | 8.50 | 62.10 |
| 0 | 0 | 0 | 8.75 | 62.30 |
| 0 | 0 | 0 | 9.00 | 62.50 |
| 0 | 0 | 0 | 9.25 | 62.70 |
| 0 | 0 | 0 | 9.50 | 62.90 |
| 0 | 0 | 0 | 9.75 | 63.10 |
| 0 | 0 | 0 | 10.00 | 63.30 |
| 0 | 0 | 0 | 10.25 | 63.50 |
| 0 | 0 | 0 | 10.50 | 63.60 |
| 0 | 0 | 0 | 10.75 | 63.80 |
| 0 | 0 | 0 | 12.75 | 64.00 |
| 0 | 0 | 0 | 15.50 | 64.10 |
| 0 | 0 | 0 | 17.00 | 64.10 |
| 0 | 0 | 0 | 18.75 | 64.10 |
| 0 | 0 | 0 | 20.75 | 64.00 |
| 0 | 0 | 0 | 23.00 | 63.90 |
| 0 | 0 | 0 | 25.25 | 63.80 |
| 0 | 0 | 0 | 27.25 | 63.70 |
| 0 | 0 | 0 | 30.00 | 63.60 |

Comment:

## Boundary Stage: TW-N-158

Boundary Stage Set: 25-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 64.70 |
| 0 | 0 | 0 | 5.00 | 64.70 |
| 0 | 0 | 0 | 6.75 | 64.80 |
| 0 | 0 | 0 | 7.00 | 64.80 |
| 0 | 0 | 0 | 7.50 | 64.90 |
| 0 | 0 | 0 | 8.00 | 65.00 |
| 0 | 0 | 0 | 8.25 | 65.10 |
| 0 | 0 | 0 | 8.50 | 65.20 |
| 0 | 0 | 0 | 8.75 | 65.30 |
| 0 | 0 | 0 | 9.00 | 65.30 |
| 0 | 0 | 0 | 9.50 | 65.50 |
| 0 | 0 | 0 | 10.00 | 65.60 |
| 0 | 0 | 0 | 11.50 | 65.60 |

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 12.50 | 65.50 |
| 0 | 0 | 0 | 13.75 | 65.40 |
| 0 | 0 | 0 | 15.50 | 65.40 |
| 0 | 0 | 0 | 18.75 | 65.30 |
| 0 | 0 | 0 | 24.00 | 65.20 |
| 0 | 0 | 0 | 30.00 | 65.10 |

Comment:

## Boundary Stage: TW-W22

Boundary Stage Set: 25-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 70.00 |
| 0 | 0 | 0 | 4.00 | 70.00 |
| 0 | 0 | 0 | 5.00 | 70.10 |
| 0 | 0 | 0 | 6.00 | 70.20 |
| 0 | 0 | 0 | 7.00 | 70.40 |
| 0 | 0 | 0 | 9.75 | 71.60 |
| 0 | 0 | 0 | 10.00 | 71.70 |
| 0 | 0 | 0 | 10.50 | 71.70 |
| 0 | 0 | 0 | 11.00 | 71.80 |
| 0 | 0 | 0 | 11.50 | 71.80 |
| 0 | 0 | 0 | 12.00 | 71.70 |
| 0 | 0 | 0 | 13.00 | 71.60 |
| 0 | 0 | 0 | 14.00 | 71.50 |
| 0 | 0 | 0 | 15.00 | 71.40 |
| 0 | 0 | 0 | 16.00 | 71.40 |
| 0 | 0 | 0 | 17.00 | 71.30 |
| 0 | 0 | 0 | 18.00 | 71.30 |
| 0 | 0 | 0 | 19.00 | 71.20 |
| 0 | 0 | 0 | 20.00 | 71.20 |
| 0 | 0 | 0 | 21.00 | 71.20 |
| 0 | 0 | 0 | 22.00 | 71.10 |
| 0 | 0 | 0 | 23.00 | 71.10 |
| 0 | 0 | 0 | 24.00 | 71.10 |
| 0 | 0 | 0 | 30.00 | 70.70 |

Comment:

## Boundary Stage: TW-W37-3

Boundary Stage Set: 25-24 OC

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 65.50 |
| 0 | 0 | 0 | 4.00 | 65.50 |
| 0 | 0 | 0 | 5.75 | 65.60 |
| 0 | 0 | 0 | 7.00 | 65.70 |
| 0 | 0 | 0 | 7.50 | 65.70 |
| 0 | 0 | 0 | 8.00 | 65.80 |

| Year | Month | Day | Hour [hr] | Stage [ft] |
|---|---|---|---|---|
| 0 | 0 | 0 | 8.50 | 65.90 |
| 0 | 0 | 0 | 9.00 | 66.00 |
| 0 | 0 | 0 | 9.25 | 66.10 |
| 0 | 0 | 0 | 9.50 | 66.10 |
| 0 | 0 | 0 | 10.00 | 66.20 |
| 0 | 0 | 0 | 11.25 | 66.20 |
| 0 | 0 | 0 | 11.75 | 66.20 |
| 0 | 0 | 0 | 12.50 | 66.10 |
| 0 | 0 | 0 | 12.75 | 66.10 |
| 0 | 0 | 0 | 13.50 | 66.00 |
| 0 | 0 | 0 | 14.75 | 65.90 |
| 0 | 0 | 0 | 16.25 | 65.90 |
| 0 | 0 | 0 | 19.00 | 65.80 |
| 0 | 0 | 0 | 23.50 | 65.70 |
| 0 | 0 | 0 | 30.00 | 65.60 |

| Comment: |
|---|

## Curve Number: AMC II [Set]

| Land Cover Zone | Soil Zone | Curve Number [dec] |
|---|---|---|
| B-077 | B-077 | 52 |
| B-078 | B-078 | 72 |
| B-080 | B-080 | 70 |
| B-081 | B-081 | 90 |
| B-082 | B-082 | 73 |
| B-083A | B-083A | 74 |
| B-083B | B-083B | 87 |
| B-084A | B-084A | 58 |
| B-084B | B-084B | 80 |
| B-084C | B-084C | 64 |
| B-084D | B-084D | 84 |
| B-085 | B-085 | 97 |
| B-086 | B-086 | 73 |
| B-087 | B-087 | 84 |
| B-088 | B-088 | 89 |
| B-089 | B-089 | 80 |
| B-133 | B-133 | 72 |
| B-134A | B-134A | 78 |
| B-134B | B-134B | 39 |
| B-135 | B-135 | 46 |
| B-136A | B-136A | 76 |
| B-136B | B-136B | 41 |
| B-137A | B-137A | 35 |
| B-137B | B-137B | 35 |
| B-138 | B-138 | 49 |
| B-139A | B-139A | 38 |
| B-139B | B-139B | 71 |
| B-153 | B-153 | 84 |
| B-154A | B-154A | 84 |
| B-154B | B-154B | 48 |
| B-155A | B-155A | 79 |
| B-155B | B-155B | 61 |

| Land Cover Zone | Soil Zone | Curve Number [dec] |
|---|---|---|
| B-156A | B-156A | 44 |
| B-156B | B-156B | 77 |
| B-156C | B-156C | 88 |
| B-156D | B-156D | 61 |
| ES-W11-1 | ES-W11-1 | 87 |
| ES-W14 | ES-W14 | 87 |
| ES-W17 | ES-W17 | 87 |
| ES-W21 | ES-W21 | 87 |
| ES-W24 | ES-W24 | 87 |
| ES-W24A | ES-W24A | 87 |
| RR-2 | RR-2 | 38 |
| RR-3 | RR-3 | 49 |
| SMA-1 | SMA-1 | 84 |
| SMA-13 | SMA-13 | 75 |
| SMA-2 | SMA-2 | 86 |
| SMA-3 | SMA-3 | 80 |
| SMA-4 | SMA-4 | 80 |
| SMA-5 | SMA-5 | 89 |
| SMA-6 | SMA-6 | 90 |
| SMA-6A-1 | SMA-6A-1 | 90 |
| SMA-6A-2 | SMA-6A-2 | 90 |
| SMA-6B | SMA-6B | 90 |
| SMA-6C-1 | SMA-6C-1 | 89 |
| SMA-6C-2 | SMA-6C-2 | 90 |
| SMA-6C-3 | SMA-6C-3 | 72 |
| SMA-7B | SMA-7B | 89 |
| W11-1 | W11-1 | 73 |
| W11-7 | W11-7 | 60 |
| W12 | W12 | 72 |
| W13 | W13 | 68 |
| W14 | W14 | 75 |
| W17 | W17 | 77 |
| W18 | W18 | 74 |
| W20 | W20 | 72 |
| W21 | W21 | 77 |
| W24 | W24 | 74 |
| W24A | W24A | 69 |
| W25A | W25A | 78 |
| W25B | W25B | 74 |

## Impervious: Impervious [Set]

| Land Cover Zone | % Impervious | % DCIA | % Direct | Ia Impervious [in] | Ia Pervious [in] |
|---|---|---|---|---|---|
| B-077 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-078 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-080 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-081 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-082 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-083A | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-083B | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-084A | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-084B | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-084C | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |

| Land Cover Zone | % Impervious | % DCIA | % Direct | Ia Impervious [in] | Ia Pervious [in] |
|---|---|---|---|---|---|
| B-084D | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-085 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-086 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-087 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-088 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-089 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-133 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-134A | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-134B | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-135 | 16.00 | 16.00 | 0.00 | 0.100 | 0.000 |
| B-136A | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-136B | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-137A | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-137B | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-138 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-139A | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-139B | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-153 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-154A | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-154B | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-155A | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-155B | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-156A | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-156B | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-156C | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| B-156D | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| ES-W11-1 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| ES-W14 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| ES-W17 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| ES-W21 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| ES-W24 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| ES-W24A | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| RR-2 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| RR-3 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| SMA-1 | 62.00 | 62.00 | 0.00 | 0.100 | 0.000 |
| SMA-13 | 27.00 | 27.00 | 0.00 | 0.100 | 0.000 |
| SMA-2 | 63.00 | 63.00 | 0.00 | 0.100 | 0.000 |
| SMA-3 | 64.00 | 64.00 | 0.00 | 0.100 | 0.000 |
| SMA-4 | 64.00 | 64.00 | 0.00 | 0.100 | 0.000 |
| SMA-5 | 32.00 | 32.00 | 0.00 | 0.100 | 0.000 |
| SMA-6 | 0.00 | 0.00 | 0.00 | 0.100 | 0.000 |
| SMA-6A-1 | 47.00 | 47.00 | 0.00 | 0.100 | 0.000 |
| SMA-6A-2 | 39.00 | 39.00 | 0.00 | 0.100 | 0.000 |
| SMA-6B | 40.00 | 40.00 | 0.00 | 0.100 | 0.000 |
| SMA-6C-1 | 39.00 | 39.00 | 0.00 | 0.100 | 0.000 |
| SMA-6C-2 | 44.00 | 44.00 | 0.00 | 0.100 | 0.000 |
| SMA-6C-3 | 40.00 | 40.00 | 0.00 | 0.100 | 0.000 |
| SMA-7B | 53.00 | 53.00 | 0.00 | 0.100 | 0.000 |
| W11-1 | 48.00 | 48.00 | 0.00 | 0.100 | 0.000 |
| W11-7 | 25.00 | 25.00 | 0.00 | 0.100 | 0.000 |
| W12 | 38.00 | 38.00 | 0.00 | 0.100 | 0.000 |
| W13 | 32.00 | 32.00 | 0.00 | 0.100 | 0.000 |
| W14 | 51.00 | 51.00 | 0.00 | 0.100 | 0.000 |
| W17 | 78.00 | 78.00 | 0.00 | 0.100 | 0.000 |
| W18 | 23.00 | 23.00 | 0.00 | 0.100 | 0.000 |

| Land Cover Zone | % Impervious | % DCIA | % Direct | Ia Impervious [in] | Ia Pervious [in] |
|---|---|---|---|---|---|
| W20 | 31.00 | 31.00 | 0.00 | 0.100 | 0.000 |
| W21 | 58.00 | 58.00 | 0.00 | 0.100 | 0.000 |
| W24 | 39.00 | 39.00 | 0.00 | 0.100 | 0.000 |
| W24A | 28.00 | 28.00 | 0.00 | 0.100 | 0.000 |
| W25A | 93.00 | 93.00 | 0.00 | 0.100 | 0.000 |
| W25B | 43.00 | 43.00 | 0.00 | 0.100 | 0.000 |

## Simulation: 100-24 OC

Scenario: Icpr3
Run Date/Time: 9/28/2017 9:27:42 AM
Program Version: ICPR4 4.03.02.00

### General

Run Mode: Normal

| | Year | Month | Day | Hour [hr] |
|---|---|---|---|---|
| Start Time: | 0 | 0 | 0 | 0.00 |
| End Time: | 0 | 0 | 0 | 30.00 |

| | Hydrology [sec] | Surface Hydraulics [sec] |
|---|---|---|
| Min Calculation Time: | 30.00 | 0.05 |
| Max Calculation Time: | | 30.00 |

### Output Time Increments

#### Hydrology

| Year | Month | Day | Hour [hr] | Time Increment [min] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 5.00 |

#### Surface Hydraulics

| Year | Month | Day | Hour [hr] | Time Increment [min] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 15.00 |

#### Restart File

Save Restart: False

### Resources & Lookup Tables

#### Resources

Rainfall Folder: ICPR3
Unit Hydrograph Folder: ICPR3

#### Lookup Tables

Boundary Stage Set: 100-24 OC
Extern Hydrograph Set:
Curve Number Set: AMC II
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: Impervious

### Tolerances & Options

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

IA Recovery Time: 24.00 hr

| | | | |
|---|---|---|---|
| dZ Tolerance: | 0.0010 ft | Manual Basin Rain Opt: | Global |
| Max dZ: | 1.0000 ft | | |
| Link Optimizer Tol: | 0.0001 ft | Rainfall Name: | Orange |
| | | Rainfall Amount: | 10.60 in |
| Edge Length Option: | Automatic | Storm Duration: | 24.00 hr |
| | | Dflt Damping (1D): | 0.0050 ft |
| | | Min Node Srf Area (1D): | 113 ft2 |
| | | Energy Switch (1D): | Energy |

Comment:

## Simulation: 25-24 OC

Scenario: Icpr3
Run Date/Time: 9/28/2017 9:29:20 AM
Program Version: ICPR4 4.03.02.00

### General

Run Mode: Normal

| | Year | Month | Day | Hour [hr] |
|---|---|---|---|---|
| Start Time: | 0 | 0 | 0 | 0.00 |
| End Time: | 0 | 0 | 0 | 30.00 |

| | Hydrology [sec] | Surface Hydraulics [sec] |
|---|---|---|
| Min Calculation Time: | 30.00 | 0.05 |
| Max Calculation Time: | | 30.00 |

### Output Time Increments

#### Hydrology

| Year | Month | Day | Hour [hr] | Time Increment [min] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 5.00 |

#### Surface Hydraulics

| Year | Month | Day | Hour [hr] | Time Increment [min] |
|---|---|---|---|---|
| 0 | 0 | 0 | 0.00 | 15.00 |

#### Restart File

Save Restart: False

### Resources & Lookup Tables

#### Resources

Rainfall Folder: ICPR3
Unit Hydrograph Folder: ICPR3

#### Lookup Tables

Boundary Stage Set: 25-24 OC
Extern Hydrograph Set:
Curve Number Set: AMC II
Green-Ampt Set:
Vertical Layers Set:
Impervious Set: Impervious

## Tolerances & Options

| | | | |
|---|---|---|---|
| Time Marching: | SAOR | IA Recovery Time: | 24.00 hr |
| Max Iterations: | 6 | | |
| Over-Relax Weight Fact: | 0.5 dec | | |
| dZ Tolerance: | 0.0010 ft | Manual Basin Rain Opt: | Global |
| Max dZ: | 1.0000 ft | | |
| Link Optimizer Tol: | 0.0001 ft | Rainfall Name: | Orange |
| | | Rainfall Amount: | 8.60 in |
| Edge Length Option: | Automatic | Storm Duration: | 24.00 hr |
| | | Dflt Damping (1D): | 0.0050 ft |
| | | Min Node Srf Area (1D): | 113 ft2 |
| | | Energy Switch (1D): | Energy |

Comment:

Manual Basin Runoff Summary [Icpr3]

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| B-077 | 25-24 OC | 16.55 | 10.18 | 8.60 | 2.85 | 28.72 | 52 | 0.00 | 0.00 |
| B-078 | 25-24 OC | 38.66 | 9.43 | 8.60 | 5.22 | 37.76 | 72 | 0.00 | 0.00 |
| B-080 | 25-24 OC | 61.14 | 9.41 | 8.60 | 4.98 | 61.88 | 70 | 0.00 | 0.00 |
| B-081 | 25-24 OC | 27.73 | 9.17 | 8.60 | 7.39 | 18.09 | 90 | 0.00 | 0.00 |
| B-082 | 25-24 OC | 17.43 | 9.60 | 8.60 | 5.34 | 17.32 | 73 | 0.00 | 0.00 |
| B-083A | 25-24 OC | 5.16 | 9.40 | 8.60 | 5.46 | 4.81 | 74 | 0.00 | 0.00 |
| B-083B | 25-24 OC | 3.78 | 9.04 | 8.60 | 7.03 | 2.35 | 87 | 0.00 | 0.00 |
| B-084A | 25-24 OC | 3.55 | 10.08 | 8.60 | 3.55 | 4.84 | 58 | 0.00 | 0.00 |
| B-084B | 25-24 OC | 1.66 | 9.23 | 8.60 | 6.19 | 1.27 | 80 | 0.00 | 0.00 |
| B-084C | 25-24 OC | 30.80 | 10.05 | 8.60 | 4.26 | 36.10 | 64 | 0.00 | 0.00 |
| B-084D | 25-24 OC | 365.33 | 9.20 | 8.60 | 6.67 | 259.39 | 84 | 0.00 | 0.00 |
| B-085 | 25-24 OC | 20.72 | 9.18 | 8.60 | 8.24 | 13.10 | 97 | 0.00 | 0.00 |
| B-086 | 25-24 OC | 2.61 | 9.07 | 8.60 | 5.34 | 2.01 | 73 | 0.00 | 0.00 |
| B-087 | 25-24 OC | 17.00 | 9.12 | 8.60 | 6.67 | 11.44 | 84 | 0.00 | 0.00 |
| B-088 | 25-24 OC | 125.20 | 9.18 | 8.60 | 7.27 | 83.10 | 89 | 0.00 | 0.00 |
| B-089 | 25-24 OC | 21.48 | 9.07 | 8.60 | 6.19 | 14.77 | 80 | 0.00 | 0.00 |
| B-133 | 25-24 OC | 83.96 | 10.03 | 8.60 | 5.22 | 87.17 | 72 | 0.00 | 0.00 |
| B-134A | 25-24 OC | 43.24 | 9.53 | 8.60 | 5.95 | 39.01 | 78 | 0.00 | 0.00 |
| B-134B | 25-24 OC | 1.35 | 10.11 | 8.60 | 1.42 | 4.21 | 39 | 0.00 | 0.00 |
| B-135 | 25-24 OC | 2.88 | 10.04 | 8.60 | 3.18 | 4.68 | 55 | 16.00 | 16.00 |
| B-136A | 25-24 OC | 66.64 | 10.03 | 8.60 | 5.70 | 65.85 | 76 | 0.00 | 0.00 |
| B-136B | 25-24 OC | 5.95 | 10.88 | 8.60 | 1.63 | 25.31 | 41 | 0.00 | 0.00 |
| B-137A | 25-24 OC | 0.60 | 10.09 | 8.60 | 1.02 | 2.54 | 35 | 0.00 | 0.00 |
| B-137B | 25-24 OC | 0.60 | 10.09 | 8.60 | 1.02 | 2.54 | 35 | 0.00 | 0.00 |
| B-138 | 25-24 OC | 5.19 | 10.08 | 8.60 | 2.51 | 9.35 | 49 | 0.00 | 0.00 |
| B-139A | 25-24 OC | 0.11 | 10.05 | 8.60 | 1.31 | 0.36 | 38 | 0.00 | 0.00 |
| B-139B | 25-24 OC | 150.38 | 10.13 | 8.60 | 5.10 | 166.34 | 71 | 0.00 | 0.00 |
| B-153 | 25-24 OC | 40.72 | 9.50 | 8.60 | 6.67 | 33.48 | 84 | 0.00 | 0.00 |
| B-154A | 25-24 OC | 40.16 | 9.12 | 8.60 | 6.67 | 27.02 | 84 | 0.00 | 0.00 |
| B-154B | 25-24 OC | 2.01 | 9.13 | 8.60 | 2.40 | 3.67 | 48 | 0.00 | 0.00 |
| B-155A | 25-24 OC | 48.51 | 9.38 | 8.60 | 6.07 | 40.91 | 79 | 0.00 | 0.00 |
| B-155B | 25-24 OC | 18.65 | 10.22 | 8.60 | 3.91 | 25.75 | 61 | 0.00 | 0.00 |
| B-156A | 25-24 OC | 5.58 | 10.32 | 8.60 | 1.95 | 15.39 | 44 | 0.00 | 0.00 |
| B-156B | 25-24 OC | 0.91 | 9.09 | 8.60 | 5.83 | 0.67 | 77 | 0.00 | 0.00 |
| B-156C | 25-24 OC | 3.70 | 9.01 | 8.60 | 7.15 | 2.23 | 88 | 0.00 | 0.00 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| B-156D | 25-24 OC | 1.15 | 9.16 | 8.60 | 3.91 | 1.28 | 61 | 0.00 | 0.00 |
| ES-W11-1 | 25-24 OC | 0.96 | 9.00 | 8.60 | 7.03 | 0.58 | 87 | 0.00 | 0.00 |
| ES-W14 | 25-24 OC | 1.24 | 9.00 | 8.60 | 7.03 | 0.75 | 87 | 0.00 | 0.00 |
| ES-W17 | 25-24 OC | 2.20 | 9.00 | 8.60 | 7.03 | 1.33 | 87 | 0.00 | 0.00 |
| ES-W21 | 25-24 OC | 1.66 | 9.00 | 8.60 | 7.03 | 1.00 | 87 | 0.00 | 0.00 |
| ES-W24 | 25-24 OC | 1.37 | 9.00 | 8.60 | 7.03 | 0.83 | 87 | 0.00 | 0.00 |
| ES-W24A | 25-24 OC | 2.98 | 9.00 | 8.60 | 7.03 | 1.80 | 87 | 0.00 | 0.00 |
| RR-2 | 25-24 OC | 2.81 | 10.26 | 8.60 | 1.31 | 11.02 | 38 | 0.00 | 0.00 |
| RR-3 | 25-24 OC | 10.18 | 10.17 | 8.60 | 2.51 | 19.71 | 49 | 0.00 | 0.00 |
| SMA-1 | 25-24 OC | 14.73 | 9.00 | 8.60 | 7.80 | 8.62 | 93 | 62.00 | 62.00 |
| SMA-13 | 25-24 OC | 57.90 | 9.12 | 8.60 | 6.37 | 41.58 | 82 | 27.00 | 27.00 |
| SMA-2 | 25-24 OC | 15.27 | 9.00 | 8.60 | 7.91 | 8.88 | 94 | 63.00 | 63.00 |
| SMA-3 | 25-24 OC | 19.74 | 9.01 | 8.60 | 7.67 | 11.80 | 92 | 64.00 | 64.00 |
| SMA-4 | 25-24 OC | 18.59 | 9.02 | 8.60 | 7.67 | 11.18 | 92 | 64.00 | 64.00 |
| SMA-5 | 25-24 OC | 18.48 | 9.01 | 8.60 | 7.67 | 10.86 | 92 | 32.00 | 32.00 |
| SMA-6A-1 | 25-24 OC | 50.82 | 9.07 | 8.60 | 7.91 | 30.65 | 94 | 47.00 | 47.00 |
| SMA-6A-2 | 25-24 OC | 19.63 | 9.04 | 8.60 | 7.82 | 11.71 | 94 | 39.00 | 39.00 |
| SMA-6B | 25-24 OC | 21.79 | 9.01 | 8.60 | 7.84 | 12.72 | 94 | 40.00 | 40.00 |
| SMA-6C-1 | 25-24 OC | 41.07 | 9.06 | 8.60 | 7.75 | 24.89 | 93 | 39.00 | 39.00 |
| SMA-6C-2 | 25-24 OC | 59.89 | 9.05 | 8.60 | 7.88 | 35.80 | 94 | 44.00 | 44.00 |
| SMA-6C-3 | 25-24 OC | 61.08 | 9.07 | 8.60 | 6.53 | 42.33 | 83 | 40.00 | 40.00 |
| SMA-7B | 25-24 OC | 61.06 | 9.05 | 8.60 | 7.92 | 36.50 | 94 | 53.00 | 53.00 |
| W11-1 | 25-24 OC | 16.36 | 9.08 | 8.60 | 6.86 | 11.13 | 86 | 48.00 | 48.00 |
| W11-7 | 25-24 OC | 123.05 | 10.85 | 8.60 | 4.96 | 192.77 | 70 | 25.00 | 25.00 |
| W12 | 25-24 OC | 110.20 | 9.79 | 8.60 | 6.47 | 102.52 | 82 | 38.00 | 38.00 |
| W13 | 25-24 OC | 143.19 | 9.86 | 8.60 | 5.94 | 142.13 | 78 | 32.00 | 32.00 |
| W14 | 25-24 OC | 12.84 | 9.04 | 8.60 | 7.07 | 8.27 | 87 | 51.00 | 51.00 |
| W17 | 25-24 OC | 19.87 | 9.00 | 8.60 | 7.91 | 11.67 | 94 | 78.00 | 78.00 |
| W18 | 25-24 OC | 44.81 | 9.36 | 8.60 | 6.16 | 38.14 | 80 | 23.00 | 23.00 |
| W20 | 25-24 OC | 57.70 | 9.85 | 8.60 | 6.24 | 55.01 | 80 | 31.00 | 31.00 |
| W21 | 25-24 OC | 12.10 | 9.04 | 8.60 | 7.38 | 7.59 | 90 | 58.00 | 58.00 |
| W24 | 25-24 OC | 64.12 | 9.45 | 8.60 | 6.65 | 54.15 | 84 | 39.00 | 39.00 |
| W24A | 25-24 OC | 77.64 | 10.24 | 8.60 | 5.88 | 85.60 | 77 | 28.00 | 28.00 |
| W25A | 25-24 OC | 29.33 | 9.03 | 8.60 | 8.32 | 17.20 | 98 | 93.00 | 93.00 |
| W25B | 25-24 OC | 68.61 | 9.13 | 8.60 | 6.77 | 48.15 | 85 | 43.00 | 43.00 |

Manual Basin Runoff Summary [Icpr3]

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| B-077 | 100-24 OC | 24.69 | 10.12 | 10.60 | 4.26 | 28.72 | 52 | 0.00 | 0.00 |
| B-078 | 100-24 OC | 52.27 | 9.38 | 10.60 | 7.03 | 37.76 | 72 | 0.00 | 0.00 |
| B-080 | 100-24 OC | 83.48 | 9.36 | 10.60 | 6.76 | 61.88 | 70 | 0.00 | 0.00 |
| B-081 | 100-24 OC | 34.79 | 9.16 | 10.60 | 9.37 | 18.09 | 90 | 0.00 | 0.00 |
| B-082 | 100-24 OC | 23.44 | 9.51 | 10.60 | 7.17 | 17.32 | 73 | 0.00 | 0.00 |
| B-083A | 100-24 OC | 6.91 | 9.37 | 10.60 | 7.30 | 4.81 | 74 | 0.00 | 0.00 |
| B-083B | 100-24 OC | 4.77 | 9.03 | 10.60 | 8.99 | 2.35 | 87 | 0.00 | 0.00 |
| B-084A | 100-24 OC | 5.05 | 9.37 | 10.60 | 5.11 | 4.84 | 58 | 0.00 | 0.00 |
| B-084B | 100-24 OC | 2.16 | 9.22 | 10.60 | 8.09 | 1.27 | 80 | 0.00 | 0.00 |
| B-084C | 100-24 OC | 43.10 | 9.38 | 10.60 | 5.94 | 36.10 | 64 | 0.00 | 0.00 |
| B-084D | 100-24 OC | 467.48 | 9.19 | 10.60 | 8.61 | 259.39 | 84 | 0.00 | 0.00 |
| B-085 | 100-24 OC | 25.59 | 9.18 | 10.60 | 10.23 | 13.10 | 97 | 0.00 | 0.00 |
| B-086 | 100-24 OC | 3.46 | 9.06 | 10.60 | 7.17 | 2.01 | 73 | 0.00 | 0.00 |
| B-087 | 100-24 OC | 21.70 | 9.11 | 10.60 | 8.61 | 11.44 | 84 | 0.00 | 0.00 |
| B-088 | 100-24 OC | 157.52 | 9.18 | 10.60 | 9.25 | 83.10 | 89 | 0.00 | 0.00 |
| B-089 | 100-24 OC | 27.76 | 9.06 | 10.60 | 8.09 | 14.77 | 80 | 0.00 | 0.00 |
| B-133 | 100-24 OC | 112.81 | 9.66 | 10.60 | 7.03 | 87.17 | 72 | 0.00 | 0.00 |
| B-134A | 100-24 OC | 56.90 | 9.48 | 10.60 | 7.83 | 39.01 | 78 | 0.00 | 0.00 |
| B-134B | 100-24 OC | 2.31 | 10.08 | 10.60 | 2.41 | 4.21 | 39 | 0.00 | 0.00 |
| B-135 | 100-24 OC | 4.30 | 9.22 | 10.60 | 4.54 | 4.68 | 54 | 16.00 | 16.00 |
| B-136A | 100-24 OC | 88.04 | 9.80 | 10.60 | 7.57 | 65.85 | 76 | 0.00 | 0.00 |
| B-136B | 100-24 OC | 10.31 | 10.68 | 10.60 | 2.70 | 25.31 | 41 | 0.00 | 0.00 |
| B-137A | 100-24 OC | 1.11 | 10.06 | 10.60 | 1.86 | 2.54 | 35 | 0.00 | 0.00 |
| B-137B | 100-24 OC | 1.11 | 10.06 | 10.60 | 1.86 | 2.54 | 35 | 0.00 | 0.00 |
| B-138 | 100-24 OC | 7.81 | 10.04 | 10.60 | 3.83 | 9.35 | 49 | 0.00 | 0.00 |
| B-139A | 100-24 OC | 0.19 | 10.03 | 10.60 | 2.28 | 0.36 | 38 | 0.00 | 0.00 |
| B-139B | 100-24 OC | 202.75 | 10.06 | 10.60 | 6.90 | 166.34 | 71 | 0.00 | 0.00 |
| B-153 | 100-24 OC | 52.34 | 9.48 | 10.60 | 8.61 | 33.48 | 84 | 0.00 | 0.00 |
| B-154A | 100-24 OC | 51.26 | 9.11 | 10.60 | 8.61 | 27.02 | 84 | 0.00 | 0.00 |
| B-154B | 100-24 OC | 3.22 | 9.11 | 10.60 | 3.69 | 3.67 | 48 | 0.00 | 0.00 |
| B-155A | 100-24 OC | 63.53 | 9.36 | 10.60 | 7.96 | 40.91 | 79 | 0.00 | 0.00 |
| B-155B | 100-24 OC | 26.37 | 10.14 | 10.60 | 5.53 | 25.75 | 61 | 0.00 | 0.00 |
| B-156A | 100-24 OC | 9.12 | 10.27 | 10.60 | 3.12 | 15.39 | 44 | 0.00 | 0.00 |
| B-156B | 100-24 OC | 1.20 | 9.08 | 10.60 | 7.70 | 0.67 | 77 | 0.00 | 0.00 |
| B-156C | 100-24 OC | 4.65 | 9.01 | 10.60 | 9.12 | 2.23 | 88 | 0.00 | 0.00 |

| 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 |
|---|---|---|---|---|---|---|---|---|---|
| B-156D | 100-24 OC | 1.64 | 9.15 | 10.60 | 5.53 | 1.28 | 61 | 0.00 | 0.00 |
| ES-W11-1 | 100-24 OC | 1.21 | 9.00 | 10.60 | 8.99 | 0.58 | 87 | 0.00 | 0.00 |
| ES-W14 | 100-24 OC | 1.56 | 9.00 | 10.60 | 8.99 | 0.75 | 87 | 0.00 | 0.00 |
| ES-W17 | 100-24 OC | 2.77 | 9.00 | 10.60 | 8.99 | 1.33 | 87 | 0.00 | 0.00 |
| ES-W21 | 100-24 OC | 2.08 | 9.00 | 10.60 | 8.99 | 1.00 | 87 | 0.00 | 0.00 |
| ES-W24 | 100-24 OC | 1.73 | 9.00 | 10.60 | 8.99 | 0.83 | 87 | 0.00 | 0.00 |
| ES-W24A | 100-24 OC | 3.75 | 9.00 | 10.60 | 8.99 | 1.80 | 87 | 0.00 | 0.00 |
| RR-2 | 100-24 OC | 5.08 | 10.22 | 10.60 | 2.28 | 11.02 | 38 | 0.00 | 0.00 |
| RR-3 | 100-24 OC | 15.56 | 10.13 | 10.60 | 3.83 | 19.71 | 49 | 0.00 | 0.00 |
| SMA-1 | 100-24 OC | 18.34 | 9.00 | 10.60 | 9.78 | 8.62 | 93 | 62.00 | 62.00 |
| SMA-13 | 100-24 OC | 74.89 | 9.11 | 10.60 | 8.26 | 41.58 | 81 | 27.00 | 27.00 |
| SMA-2 | 100-24 OC | 18.98 | 9.00 | 10.60 | 9.89 | 8.88 | 94 | 63.00 | 63.00 |
| SMA-3 | 100-24 OC | 24.68 | 9.01 | 10.60 | 9.63 | 11.80 | 92 | 64.00 | 64.00 |
| SMA-4 | 100-24 OC | 23.25 | 9.02 | 10.60 | 9.63 | 11.18 | 92 | 64.00 | 64.00 |
| SMA-5 | 100-24 OC | 23.02 | 9.01 | 10.60 | 9.65 | 10.86 | 92 | 32.00 | 32.00 |
| SMA-6A-1 | 100-24 OC | 63.15 | 9.07 | 10.60 | 9.90 | 30.65 | 94 | 47.00 | 47.00 |
| SMA-6A-2 | 100-24 OC | 24.42 | 9.04 | 10.60 | 9.81 | 11.71 | 94 | 39.00 | 39.00 |
| SMA-6B | 100-24 OC | 27.08 | 9.01 | 10.60 | 9.82 | 12.72 | 94 | 40.00 | 40.00 |
| SMA-6C-1 | 100-24 OC | 51.17 | 9.06 | 10.60 | 9.73 | 24.89 | 93 | 39.00 | 39.00 |
| SMA-6C-2 | 100-24 OC | 74.44 | 9.05 | 10.60 | 9.87 | 35.80 | 94 | 44.00 | 44.00 |
| SMA-6C-3 | 100-24 OC | 78.63 | 9.06 | 10.60 | 8.42 | 42.33 | 83 | 40.00 | 40.00 |
| SMA-7B | 100-24 OC | 75.89 | 9.05 | 10.60 | 9.91 | 36.50 | 94 | 53.00 | 53.00 |
| W11-1 | 100-24 OC | 20.90 | 9.08 | 10.60 | 8.77 | 11.13 | 85 | 48.00 | 48.00 |
| W11-7 | 100-24 OC | 166.72 | 10.81 | 10.60 | 6.65 | 192.77 | 69 | 25.00 | 25.00 |
| W12 | 100-24 OC | 142.80 | 9.70 | 10.60 | 8.35 | 102.52 | 82 | 38.00 | 38.00 |
| W13 | 100-24 OC | 188.38 | 9.69 | 10.60 | 7.77 | 142.13 | 78 | 32.00 | 32.00 |
| W14 | 100-24 OC | 16.29 | 9.03 | 10.60 | 9.00 | 8.27 | 87 | 51.00 | 51.00 |
| W17 | 100-24 OC | 24.74 | 9.00 | 10.60 | 9.88 | 11.67 | 94 | 78.00 | 78.00 |
| W18 | 100-24 OC | 58.62 | 9.34 | 10.60 | 8.04 | 38.14 | 80 | 23.00 | 23.00 |
| W20 | 100-24 OC | 75.25 | 9.72 | 10.60 | 8.11 | 55.01 | 80 | 31.00 | 31.00 |
| W21 | 100-24 OC | 15.24 | 9.03 | 10.60 | 9.32 | 7.59 | 90 | 58.00 | 58.00 |
| W24 | 100-24 OC | 82.73 | 9.44 | 10.60 | 8.55 | 54.15 | 84 | 39.00 | 39.00 |
| W24A | 100-24 OC | 102.21 | 10.20 | 10.60 | 7.71 | 85.60 | 77 | 28.00 | 28.00 |
| W25A | 100-24 OC | 36.27 | 9.03 | 10.60 | 10.31 | 17.20 | 98 | 93.00 | 93.00 |
| W25B | 100-24 OC | 87.90 | 9.12 | 10.60 | 8.68 | 48.15 | 85 | 43.00 | 43.00 |

Node Max Conditions [Icpr3]

| 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] |
|---|---|---|---|---|---|---|---|
| ES-W11-1 | 25-24 OC | 76.25 | 76.01 | 0.0002 | 0.96 | 0.96 | 6055 |
| ES-W14 | 25-24 OC | 77.35 | 77.11 | 0.0002 | 1.24 | 1.24 | 7710 |
| ES-W17 | 25-24 OC | 75.25 | 75.01 | 0.0001 | 2.20 | 2.20 | 17032 |
| ES-W21 | 25-24 OC | 76.25 | 76.01 | 0.0001 | 1.66 | 1.66 | 12632 |
| ES-W24 | 25-24 OC | 74.25 | 74.01 | 0.0002 | 1.37 | 1.37 | 7144 |
| ES-W24A | 25-24 OC | 73.35 | 73.11 | 0.0002 | 2.98 | 2.98 | 20909 |
| N-077 | 25-24 OC | 84.28 | 70.01 | 0.0011 | 16.55 | 13.42 | 79349 |
| N-078 | 25-24 OC | 78.61 | 70.50 | 0.0001 | 38.66 | 33.83 | 309477 |
| N-080 | 25-24 OC | 76.91 | 69.59 | 0.0001 | 63.13 | 40.73 | 633709 |
| N-081 | 25-24 OC | 71.13 | 69.59 | 0.0001 | 65.60 | 11.82 | 637912 |
| N-082 | 25-24 OC | 73.40 | 69.59 | 0.0001 | 25.46 | 19.88 | 342089 |
| N-083A | 25-24 OC | 71.00 | 69.70 | 0.0010 | 16.57 | 16.20 | 13341 |
| N-083B | 25-24 OC | 68.50 | 67.98 | 0.0000 | 8.26 | 8.21 | 27427 |
| N-084A | 25-24 OC | 71.00 | 70.04 | 0.0005 | 3.55 | 2.16 | 47842 |
| N-084B | 25-24 OC | 70.50 | 69.59 | 0.0005 | 20.86 | 20.63 | 30478 |
| N-084C | 25-24 OC | 69.50 | 69.63 | 0.0006 | 30.80 | 10.08 | 536997 |
| N-084D | 25-24 OC | 66.50 | 65.95 | 0.0001 | 510.42 | 446.08 | 3552199 |
| N-085 | 25-24 OC | 68.12 | 66.14 | 0.0002 | 38.84 | 32.36 | 421909 |
| N-086 | 25-24 OC | 72.34 | 70.07 | 0.0001 | 2.61 | 2.19 | 27850 |
| N-087 | 25-24 OC | 72.05 | 68.32 | 0.0000 | 17.77 | 17.02 | 139178 |
| N-088 | 25-24 OC | 69.68 | 66.05 | 0.0000 | 140.89 | 138.95 | 1241263 |
| N-089 | 25-24 OC | 70.36 | 66.61 | 0.0004 | 21.48 | 18.36 | 49163 |
| N-133 | 25-24 OC | 81.80 | 68.46 | 0.0004 | 110.40 | 109.46 | 313728 |
| N-134A | 25-24 OC | 71.50 | 71.07 | 0.0000 | 44.21 | 14.45 | 979412 |
| N-134B | 25-24 OC | 73.00 | 71.68 | 0.0003 | 1.35 | 1.33 | 10069 |
| N-135 | 25-24 OC | 71.50 | 71.10 | 0.0001 | 2.88 | 0.30 | 51441 |
| N-136A | 25-24 OC | 70.00 | 69.57 | 0.0001 | 67.54 | 47.32 | 654480 |
| N-136B | 25-24 OC | 73.50 | 72.01 | 0.0003 | 5.95 | 5.94 | 22444 |
| N-137A | 25-24 OC | 73.91 | 71.74 | 0.0001 | 0.60 | 0.30 | 13557 |
| N-137B | 25-24 OC | 72.00 | 70.61 | 0.0001 | 6.39 | 6.35 | 45666 |
| N-138 | 25-24 OC | 76.20 | 71.49 | 0.0001 | 5.19 | 4.53 | 49705 |
| N-139A | 25-24 OC | 73.00 | 72.02 | 0.0000 | 0.11 | 0.11 | 1310 |
| N-139B | 25-24 OC | 65.25 | 64.84 | 0.0001 | 155.61 | 151.96 | 1446758 |
| N-153 | 25-24 OC | 71.93 | 66.49 | 0.0002 | 79.63 | 70.21 | 522155 |
| N-154A | 25-24 OC | 67.25 | 66.83 | 0.0001 | 40.31 | 39.71 | 270118 |

| 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] |
|---|---|---|---|---|---|---|---|
| N-154B | 25-24 OC | 73.50 | 72.34 | 0.0003 | 2.01 | 0.68 | 44952 |
| N-155A | 25-24 OC | 67.00 | 66.48 | 0.0001 | 103.56 | 60.09 | 755089 |
| N-155B | 25-24 OC | 67.00 | 66.45 | 0.0002 | 25.18 | 13.73 | 231366 |
| N-156A | 25-24 OC | 67.00 | 65.58 | 0.0003 | 59.99 | 58.83 | 97806 |
| N-156B | 25-24 OC | 67.50 | 66.49 | 0.0000 | 0.91 | 0.74 | 19033 |
| N-156C | 25-24 OC | 66.00 | 65.39 | 0.0002 | 61.54 | 61.47 | 69994 |
| N-156D | 25-24 OC | 68.00 | 67.49 | 0.0006 | 1.15 | 0.37 | 31588 |
| RR-2 | 25-24 OC | 77.00 | 75.53 | 0.0006 | 2.81 | 0.01 | 81710 |
| RR-3 | 25-24 OC | 76.00 | 74.28 | 0.0000 | 10.18 | 10.13 | 32526 |
| SMA-1 | 25-24 OC | 72.00 | 71.92 | 0.0004 | 14.73 | 3.01 | 74485 |
| SMA-13 | 25-24 OC | 73.00 | 71.97 | 0.0002 | 57.90 | 25.22 | 198758 |
| SMA-2 | 25-24 OC | 70.50 | 70.46 | 0.0004 | 15.27 | 3.78 | 71368 |
| SMA-3 | 25-24 OC | 74.50 | 74.21 | 0.0005 | 19.74 | 4.04 | 78280 |
| SMA-4 | 25-24 OC | 75.50 | 75.25 | 0.0005 | 18.59 | 1.03 | 80563 |
| SMA-5 | 25-24 OC | 69.00 | 68.92 | 0.0002 | 18.48 | 3.23 | 90477 |
| SMA-6A-1 | 25-24 OC | 79.00 | 76.69 | 0.0002 | 50.82 | 14.12 | 372438 |
| SMA-6A-2 | 25-24 OC | 78.25 | 76.72 | 0.0003 | 19.63 | 15.33 | 63423 |
| SMA-6B | 25-24 OC | 77.00 | 75.21 | 0.0003 | 21.79 | 15.30 | 81666 |
| SMA-6C-1 | 25-24 OC | 76.50 | 75.26 | 0.0003 | 41.07 | 29.11 | 129015 |
| SMA-6C-2 | 25-24 OC | 77.50 | 76.43 | 0.0003 | 59.89 | 40.91 | 146704 |
| SMA-6C-3 | 25-24 OC | 77.50 | 76.55 | 0.0003 | 72.74 | 20.51 | 293977 |
| SMA-7B | 25-24 OC | 77.50 | 76.11 | 0.0003 | 61.06 | 25.58 | 273329 |
| TW-N-075 | 25-24 OC | 70.00 | 69.80 | 0.0001 | 32.78 | 0.00 | 0 |
| TW-N-090 | 25-24 OC | 66.50 | 65.90 | 0.0002 | 19.17 | 0.58 | 0 |
| TW-N-091 | 25-24 OC | 65.00 | 64.80 | 0.0000 | 441.01 | 0.15 | 0 |
| TW-N-131 | 25-24 OC | 66.60 | 66.30 | 0.0002 | 122.70 | 0.00 | 0 |
| TW-N-141 | 25-24 OC | 64.50 | 64.00 | 0.0000 | 151.96 | 0.00 | 0 |
| TW-N-157 | 25-24 OC | 75.44 | 64.10 | 0.0004 | 61.47 | 0.00 | 0 |
| TW-N-158 | 25-24 OC | 66.00 | 65.60 | 0.0001 | 13.73 | 0.01 | 0 |
| TW-N29 | 25-24 OC | 76.00 | 75.00 | 0.0000 | 235.88 | 0.00 | 0 |
| TW-W11-7 | 25-24 OC | 71.30 | 71.20 | 0.0000 | 244.81 | 0.00 | 0 |
| TW-W22 | 25-24 OC | 75.00 | 70.00 | 0.0000 | 256.68 | 0.00 | 0 |
| TW-W37-3 | 25-24 OC | 66.50 | 66.20 | 0.0001 | 100.81 | 20.79 | 0 |
| W11-1 | 25-24 OC | 74.12 | 74.61 | 0.0001 | 19.73 | 6.93 | 337006 |
| W12 | 25-24 OC | 83.00 | 81.45 | 0.0000 | 110.20 | 89.89 | 2175278 |
| W13 | 25-24 OC | 75.20 | 75.05 | 0.0001 | 230.09 | 229.36 | 1373080 |

| 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] |
|---|---|---|---|---|---|---|---|
| W14 | 25-24 OC | 75.34 | 75.36 | 0.0001 | 14.07 | 12.70 | 233194 |
| W17 | 25-24 OC | 73.67 | 73.57 | 0.0001 | 22.07 | 8.81 | 406140 |
| W18 | 25-24 OC | 73.90 | 73.35 | 0.0001 | 59.23 | 57.80 | 393870 |
| W20 | 25-24 OC | 73.30 | 73.18 | 0.0000 | 92.35 | 89.78 | 867262 |
| W21 | 25-24 OC | 74.24 | 74.33 | 0.0001 | 13.75 | 9.21 | 236809 |
| W24 | 25-24 OC | 72.70 | 72.26 | 0.0001 | 82.74 | 71.53 | 1090470 |
| W24A | 25-24 OC | 72.15 | 71.18 | 0.0000 | 256.71 | 256.68 | 220229 |
| W25A | 25-24 OC | 70.50 | 69.70 | 0.0003 | 52.51 | 38.64 | 428488 |
| W25B | 25-24 OC | 74.00 | 69.09 | 0.0001 | 94.11 | 93.66 | 474272 |

Node Max Conditions [Icpr3]

| 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] |
|---|---|---|---|---|---|---|---|
| ES-W11-1 | 100-24 OC | 76.25 | 76.01 | 0.0002 | 1.21 | 1.21 | 6055 |
| ES-W14 | 100-24 OC | 77.35 | 77.11 | 0.0002 | 1.56 | 1.56 | 7710 |
| ES-W17 | 100-24 OC | 75.25 | 75.01 | 0.0002 | 2.77 | 2.77 | 17032 |
| ES-W21 | 100-24 OC | 76.25 | 76.01 | 0.0002 | 2.08 | 2.08 | 12632 |
| ES-W24 | 100-24 OC | 74.25 | 74.01 | 0.0002 | 1.73 | 1.73 | 7144 |
| ES-W24A | 100-24 OC | 73.35 | 73.11 | 0.0002 | 3.75 | 3.75 | 20909 |
| N-077 | 100-24 OC | 84.28 | 70.11 | 0.0011 | 24.69 | 24.02 | 91032 |
| N-078 | 100-24 OC | 78.61 | 70.59 | 0.0001 | 52.27 | 48.50 | 340638 |
| N-080 | 100-24 OC | 76.91 | 69.89 | 0.0001 | 87.80 | 69.82 | 773577 |
| N-081 | 100-24 OC | 71.13 | 69.89 | 0.0001 | 114.88 | 17.14 | 684751 |
| N-082 | 100-24 OC | 73.40 | 69.89 | 0.0001 | 41.88 | 31.23 | 414764 |
| N-083A | 100-24 OC | 71.00 | 70.09 | 0.0010 | 19.13 | 18.32 | 30922 |
| N-083B | 100-24 OC | 68.50 | 68.04 | 0.0001 | 13.55 | 13.53 | 29955 |
| N-084A | 100-24 OC | 71.00 | 70.22 | 0.0007 | 5.05 | 3.02 | 62020 |
| N-084B | 100-24 OC | 70.50 | 69.89 | 0.0006 | 33.09 | 32.20 | 39061 |
| N-084C | 100-24 OC | 69.50 | 70.19 | 0.0005 | 49.44 | 17.15 | 710965 |
| N-084D | 100-24 OC | 66.50 | 66.10 | 0.0001 | 731.42 | 669.06 | 4232127 |
| N-085 | 100-24 OC | 68.12 | 66.36 | 0.0002 | 186.83 | 168.73 | 457448 |
| N-086 | 100-24 OC | 72.34 | 70.08 | 0.0001 | 3.46 | 3.40 | 28486 |
| N-087 | 100-24 OC | 72.05 | 68.37 | 0.0000 | 25.10 | 23.46 | 141466 |
| N-088 | 100-24 OC | 69.68 | 66.12 | 0.0000 | 180.39 | 177.07 | 1300577 |
| N-089 | 100-24 OC | 70.36 | 66.96 | 0.0004 | 27.76 | 22.47 | 70014 |
| N-133 | 100-24 OC | 81.80 | 68.58 | 0.0004 | 174.40 | 172.67 | 356230 |
| N-134A | 100-24 OC | 71.50 | 71.15 | 0.0001 | 63.56 | 32.77 | 1030636 |
| N-134B | 100-24 OC | 73.00 | 71.70 | 0.0003 | 2.31 | 2.30 | 11113 |
| N-135 | 100-24 OC | 71.50 | 71.16 | 0.0001 | 4.30 | 1.73 | 52823 |
| N-136A | 100-24 OC | 70.00 | 69.64 | 0.0001 | 89.43 | 74.87 | 679137 |
| N-136B | 100-24 OC | 73.50 | 72.07 | 0.0003 | 10.67 | 10.65 | 30146 |
| N-137A | 100-24 OC | 73.91 | 71.77 | 0.0001 | 1.11 | 0.91 | 14958 |
| N-137B | 100-24 OC | 72.00 | 70.65 | 0.0001 | 10.82 | 10.81 | 46656 |
| N-138 | 100-24 OC | 76.20 | 71.52 | 0.0001 | 7.81 | 7.77 | 51264 |
| N-139A | 100-24 OC | 73.00 | 72.03 | 0.0000 | 0.19 | 0.19 | 1438 |
| N-139B | 100-24 OC | 65.25 | 64.90 | 0.0000 | 222.35 | 216.63 | 1558034 |
| N-153 | 100-24 OC | 71.93 | 66.64 | 0.0002 | 102.37 | 93.10 | 583987 |
| N-154A | 100-24 OC | 67.25 | 66.85 | 0.0001 | 51.63 | 51.08 | 274232 |

| 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] |
|---|---|---|---|---|---|---|---|
| N-154B | 100-24 OC | 73.50 | 72.46 | 0.0003 | 3.22 | 1.53 | 53395 |
| N-155A | 100-24 OC | 67.00 | 66.63 | 0.0001 | 142.30 | 87.72 | 822345 |
| N-155B | 100-24 OC | 67.00 | 66.65 | 0.0003 | 34.01 | 19.21 | 268135 |
| N-156A | 100-24 OC | 67.00 | 66.02 | 0.0001 | 94.19 | 92.39 | 115404 |
| N-156B | 100-24 OC | 67.50 | 66.65 | 0.0001 | 1.29 | 1.12 | 21245 |
| N-156C | 100-24 OC | 66.00 | 65.54 | 0.0001 | 100.75 | 100.70 | 72506 |
| N-156D | 100-24 OC | 68.00 | 67.52 | 0.0006 | 1.64 | 1.04 | 32584 |
| RR-2 | 100-24 OC | 77.00 | 75.79 | 0.0006 | 5.08 | 0.42 | 104523 |
| RR-3 | 100-24 OC | 76.00 | 74.33 | 0.0000 | 15.56 | 15.52 | 35182 |
| SMA-1 | 100-24 OC | 72.00 | 72.10 | 0.0004 | 18.34 | 7.30 | 76217 |
| SMA-13 | 100-24 OC | 73.00 | 72.38 | 0.0002 | 74.89 | 42.77 | 202746 |
| SMA-2 | 100-24 OC | 70.50 | 70.66 | 0.0004 | 18.98 | 9.01 | 72959 |
| SMA-3 | 100-24 OC | 74.50 | 74.43 | 0.0005 | 24.68 | 9.87 | 79840 |
| SMA-4 | 100-24 OC | 75.50 | 75.73 | 0.0004 | 23.25 | 4.67 | 84356 |
| SMA-5 | 100-24 OC | 69.00 | 69.12 | 0.0002 | 23.02 | 8.07 | 92094 |
| SMA-6A-1 | 100-24 OC | 79.00 | 76.92 | 0.0001 | 63.15 | 24.11 | 375739 |
| SMA-6A-2 | 100-24 OC | 78.25 | 76.86 | 0.0003 | 24.42 | 21.32 | 64182 |
| SMA-6B | 100-24 OC | 77.00 | 75.36 | 0.0003 | 27.08 | 21.73 | 82483 |
| SMA-6C-1 | 100-24 OC | 76.50 | 75.46 | 0.0003 | 51.17 | 40.67 | 130381 |
| SMA-6C-2 | 100-24 OC | 77.50 | 76.73 | 0.0003 | 75.57 | 69.49 | 149082 |
| SMA-6C-3 | 100-24 OC | 77.50 | 77.04 | 0.0003 | 86.45 | 32.42 | 299614 |
| SMA-7B | 100-24 OC | 77.50 | 76.35 | 0.0003 | 75.89 | 44.02 | 276691 |
| TW-N-075 | 100-24 OC | 70.00 | 69.90 | 0.0001 | 40.93 | 0.00 | 0 |
| TW-N-090 | 100-24 OC | 66.50 | 66.00 | 0.0002 | 33.83 | 0.58 | 0 |
| TW-N-091 | 100-24 OC | 65.00 | 64.80 | 0.0000 | 653.07 | 0.07 | 0 |
| TW-N-131 | 100-24 OC | 66.60 | 66.50 | 0.0002 | 187.19 | 2.44 | 0 |
| TW-N-141 | 100-24 OC | 64.50 | 64.00 | 0.0000 | 216.63 | 0.00 | 0 |
| TW-N-157 | 100-24 OC | 75.44 | 64.50 | 0.0004 | 100.70 | 0.00 | 0 |
| TW-N-158 | 100-24 OC | 66.00 | 65.70 | 0.0002 | 16.49 | 0.01 | 0 |
| TW-N29 | 100-24 OC | 76.00 | 75.00 | 0.0000 | 332.36 | 0.00 | 0 |
| TW-W11-7 | 100-24 OC | 71.30 | 71.20 | 0.0000 | 355.69 | 0.00 | 0 |
| TW-W22 | 100-24 OC | 75.00 | 70.00 | 0.0000 | 351.34 | 0.00 | 0 |
| TW-W37-3 | 100-24 OC | 66.50 | 66.40 | 0.0001 | 128.69 | 164.55 | 0 |
| W11-1 | 100-24 OC | 74.12 | 74.75 | 0.0001 | 24.60 | 8.50 | 359672 |
| W12 | 100-24 OC | 83.00 | 81.49 | 0.0000 | 142.80 | 126.18 | 2221490 |
| W13 | 100-24 OC | 75.20 | 75.08 | 0.0001 | 324.76 | 323.36 | 1392438 |

| 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] |
|---|---|---|---|---|---|---|---|
| W14 | 100-24 OC | 75.34 | 75.39 | 0.0001 | 17.85 | 16.61 | 236873 |
| W17 | 100-24 OC | 73.67 | 73.66 | 0.0001 | 27.51 | 12.79 | 418466 |
| W18 | 100-24 OC | 73.90 | 73.40 | 0.0001 | 79.89 | 77.20 | 407290 |
| W20 | 100-24 OC | 73.30 | 73.25 | 0.0000 | 143.18 | 138.53 | 906776 |
| W21 | 100-24 OC | 74.24 | 74.41 | 0.0001 | 17.32 | 10.88 | 245840 |
| W24 | 100-24 OC | 72.70 | 72.32 | 0.0001 | 109.06 | 100.72 | 1113193 |
| W24A | 100-24 OC | 72.15 | 71.21 | 0.0000 | 351.40 | 351.34 | 234215 |
| W25A | 100-24 OC | 70.50 | 70.09 | 0.0003 | 85.21 | 55.07 | 555469 |
| W25B | 100-24 OC | 74.00 | 69.11 | 0.0001 | 119.74 | 119.23 | 479866 |

# APPENDIX D
# WATER QUALITY ANALYSIS

***Sunbridge Parkway (Segments 2-4)***
***Wet Detention Water Quality Calculations - SFWMD***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **SMA-6C-2 & 6C-3** |
| **Treatment Pond:** | **SMA-6C-2 & 6C-3** |
| **Basin Area:** | **78.13 acres** |

Basin Summary

| Land Cover | Pervious Area (ac) | Impervious Area (ac) | Water Surface (ac) | Roof Area (ac) | Total Area (ac) |
|---|---|---|---|---|---|
| Residential (70%) | 10.39 | 18.19 | | 6.06 | 34.65 |
| School (50%) | 5.92 | 4.44 | | 1.48 | 11.83 |
| Civic/Office/Commercial (75%) | 0.75 | 1.68 | | 0.56 | 2.98 |
| R.O.W. (85%) | 1.18 | 6.69 | | | 7.88 |
| Water Surface | | | 8.85 | | 8.85 |
| Open Space (Good) | 11.95 | | | | 11.95 |
| Totals | 30.19 | 31.00 | 8.85 | 8.10 | 78.13 |

Percent Impervious = 51%

Does basin discharge directly to waters listed in A.H. 4.2.2(b) and is greater than 40% impervious? **No**
Is project zoned commercial or industrial? **No**
**No dry pretreatment required.** **0**

**Wet Detention Treatment Volume Calculations**

1" x Total Area = 6.51 ac-ft
2.5" x % Impervious = 7.31 ac-ft Minimum required PAV

Does basin discharge to an O.F.W. or impaired water body? **Yes**

**Req'd Wet Det. Treatment Volume = 10.97 ac-ft** (includes additional 50% treatment volume)

Pond Data

| Stage (ft - NAVD) | SMA-6C-2 Area (ac) | SMA-6C-3 Area (ac) | Volume Below DNW (ac-ft) | Volume Above DNW (ac-ft) | |
|---|---|---|---|---|---|
| 61.50 | 1.72 | 4.37 | 85.68 | | Pond Bottom |
| 69.50 | 2.20 | 5.07 | 32.24 | | Grade Break |
| **73.50** | **2.85** | **6.00** | **0.00** | **0.00** | **DNW** |
| 74.00 | 2.94 | 6.12 | | 4.48 | |
| 75.00 | 3.11 | 6.36 | | 13.74 | |
| 76.00 | 3.29 | 6.61 | | 23.43 | |
| 77.00 | 3.47 | 6.86 | | 33.54 | |
| 77.50 | 4.07 | 7.11 | | 38.92 | Outside Top of Berm |

Minimum weir elevation = 74.70 ft

| | |
|---|---|
| **Design Weir Elevation =** | **74.75 ft** |
| **Treatment Volume Provided =** | **11.43 ac-ft** |

**Control Device Calculations**

| | |
|---|---|
| Control device: | Rectangular slot |
| Height (in.) = | 4 |
| Width (in.) = | 10.00 |
| Total Head (ft) = | 1.03 |
| 1/2" PAV Recovery Time = | 25.7 hours |

**Length to Width Calculations**

| | |
|---|---|
| Length (L) = | 1,531 ft |
| Area at DNW = | 385,506 s.f. |
| Equivalent Width ($W_e$) = | 252 ft |
| **L / $W_e$ =** | **6.1** |

| **Annual Residence Time Calculations** | |
|---|---|
| Drainage Area (ac.) = | 78.13 |
| Annual Rainfall (in) = | 50 |
| Runoff Coefficient = | 0.63 |
| Permanent Pool Volume (Ac-ft) = | 85.68 |
| **Annual Residence Time (Days) =** | **153** |

***Sunbridge Parkway (Segments 2-4)***
***Wet Detention Water Quality Calculations - SFWMD***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **SMA-13** |
| **Treatment Pond:** | **SMA-13** |
| **Basin Area:** | **41.58 acres** |

Area Summary

| Land Cover | Pervious Area (ac) | Impervious Area (ac) | Water Surface (ac) | Roof Area (ac) | Total Area (ac) | |
|---|---|---|---|---|---|---|
| R.O.W. (85%) | 1.18 | 6.68 | | | 7.86 | * |
| Park (25%) | 21.32 | 7.11 | | | 28.42 | |
| Open Space (Good) | 1.39 | | | | 1.39 | |
| Totals | 23.88 | 13.79 | 3.91 | 0.00 | 41.58 | |

d to be either 6 lanes or 4 lanes with future dedicated transit lane (85% impervious)

| | |
|---|---|
| Percent Impervious = | 37% |

Does basin discharge directly to waters listed in A.H. 4.2.2(b) and is greater than 40% impervious? **No**
Is project zoned commercial or industrial? **No**
**No dry retention pretreatment volume required. 0**

**Wet Detention Treatment Volume Calculations**

| | | |
|---|---|---|
| 1" x Total Area = | 3.47 ac-ft | Minimum required PAV |
| 2.5" x % Impervious = | 2.87 ac-ft | |

Does basin discharge to an impaired water body? **Yes**

**Req'd Wet Det. Treatment Volume = 5.20 ac-ft** (includes reduction credit for dry pre-treatment and additional 50% treatment volume)

Stage - Storage

| Stage (ft)(NAVD88) | Area (ac) | Volume Below DNW (ac-ft) | Volume Above DNW (ac-ft) | |
|---|---|---|---|---|
| 57.00 | 2.77 | 37.41 | | Pond Bottom |
| 65.00 | 3.09 | 13.99 | | Grade Break |
| **69.00** | **3.91** | **0.00** | **0.00** | **DNW** |
| 70.00 | 4.12 | | 4.02 | |
| 71.00 | 4.34 | | 8.25 | |
| 72.00 | 4.57 | | 12.71 | |
| 73.00 | 4.79 | | 17.39 | Outside Top of Berm |

Minimum weir elevation = 70.28 ft

| | |
|---|---|
| **Design Weir Elevation =** | **70.75 ft** |
| **Treatment volume provided =** | **7.19 ac-ft** |

**Length to Width Calculations**

| | |
|---|---|
| Length (L) = | 550 ft |
| Area at DNW = | 170,320 s.f. |
| Equivalent Width (We) = | 310 ft |
| **L / We =** | **1.8** |

**Control Device Calculations**

| | |
|---|---|
| Control device: | Orifice |
| # of devices: | 1 |
| Diameter (in.) = | 4.50 |
| Total Head (ft) = | 1.09 |
| 1/2" PAV Recovery Time = | 34.2 hours |

| **Annual Residence Time Calculations** | |
|---|---|
| Drainage Area (ac.) = | 41.58 |
| Annual Rainfall (in) = | 50 |
| Runoff Coefficient = | 0.50 |
| Permanent Pool Volume (Ac-ft) = | 37.41 |
| **Annual Residence Time (Days) =** | **158** |

***Sunbridge Parkway (Segments 2-4)***
***Wet Detention Water Quality Calculations - SJRWMD***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **SMA-1** |
| **Treatment Pond:** | **SMA-1** |
| **Basin Area:** | **8.62 acres** |

Basin Summary

| Land Cover | Pervious Area (ac) | Impervious Area (ac) | Water Surface (ac) | Total Area (ac) |
|---|---|---|---|---|
| Open Space (Good) | 0.93 | 0.00 | 0.00 | 0.93 |
| R.O.W. (80%) | 1.29 | 5.18 | 0.00 | 6.47 |
| Water Surface | 0.00 | 0.00 | 1.22 | 1.22 |
| Totals | 2.22 | 5.18 | 1.22 | 8.62 |

**Treatment Volume Calculations**

Does system discharge directly to O.F.W. or Class I/II waters? **Yes**

1-in. x Total Area = 0.72 ac-ft
2.5-in. x Impervious Area = 1.08 ac-ft

**Required Treatment Volume = 1.62 ac-ft** (includes additional 50% treatment volume)

Pond Data

| Stage (ft - NAVD) | Area (ac) | Volume Below DNW (ac-ft) | Volume Above DNW (ac-ft) | |
|---|---|---|---|---|
| 57 | 0.23 | 7.09 | - | Bottom |
| 64 | 0.54 | 4.40 | - | Grade Break |
| 69 | 1.22 | 0.00 | 0.00 | DNW |
| 70 | 1.37 | | 1.30 | |
| 71 | 1.53 | | 2.75 | |
| 72 | 1.68 | | 4.35 | |
| 73 | 2.01 | | 6.20 | Outside Top of Berm |

Minimum weir elevation = 70.22 ft
1/2 Treatment volume elevation = 69.62 ft

| | |
|---|---|
| **Design Weir Elevation =** | **71.75 ft** |
| **Treatment Volume Provided =** | **3.95 ac-ft** |

**Control Device Calculations**

| | |
|---|---|
| Control device: | Round orifice |
| # of devices: | 1 |
| Width (in.) = | 4.00 |
| Average Head (ft) = | 0.75 ft. |
| 1/2 PAV Recovery Time = | 26.8 hours |

| **Permanent Pool Volume Calculations** | |
|---|---|
| Drainage Area (ac): | 8.62 |
| Residence Time (days): | 31.5 |
| Wet Season (days): | 153 |
| Wet Season Rainfall (in): | 32 |
| Runoff Coefficient: | 0.72 |
| Base Flow (cfs): | |
| Littoral Zone Provided? | No |
| **PPV Required (ac-ft):** | **3.40** |
| **PPV Provided (ac-ft):** | **7.09** |
| **Mean Depth (ft):** | **5.8** |
| **Max. Depth (ft):** | **12** |

***Sunbridge Parkway (Segments 2-4)***
***Wet Detention Water Quality Calculations - SJRWMD***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **SMA-2** |
| **Treatment Pond:** | **SMA-2** |
| **Basin Area:** | **8.88 acres** |

Basin Summary

| Land Cover | Pervious Area (ac) | Impervious Area (ac) | Water Surface (ac) | Total Area (ac) |
|---|---|---|---|---|
| Open Space (Good) | 0.81 | 0.00 | 0.00 | 0.81 |
| R.O.W. (80%) | 1.36 | 5.46 | 0.00 | 6.82 |
| Water Surface | 0.00 | 0.00 | 1.25 | 1.25 |
| Totals | 2.17 | 5.46 | 1.25 | 8.88 |

**Treatment Volume Calculations**

| | |
|---|---|
| Does system discharge directly to O.F.W. or Class I/II waters? | **Yes** |

1-in. x Total Area = 0.74 ac-ft
2.5-in. x Impervious Area = 1.14 ac-ft

**Required Treatment Volume = 1.71 ac-ft** (includes additional 50% treatment volume)

Pond Data

| Stage (ft - NAVD) | Area (ac) | Volume Below DNW (ac-ft) | Volume Above DNW (ac-ft) | |
|---|---|---|---|---|
| 55.5 | 0.48 | 9.19 | - | Bottom |
| 62.5 | 0.73 | 4.95 | - | Grade Break |
| 67.5 | 1.25 | 0.00 | 0.00 | DNW |
| 68.5 | 1.37 | | 1.31 | |
| 69.5 | 1.49 | | 2.73 | |
| 70.5 | 1.61 | | 4.28 | |
| 71.5 | 1.86 | | 6.02 | Outside Top of Berm |

Minimum weir elevation = 68.78 ft
1/2 Treatment volume elevation = 68.15 ft

| | |
|---|---|
| **Design Weir Elevation =** | **70.25 ft** |
| **Treatment Volume Provided =** | **3.89 ac-ft** |

**Control Device Calculations**

| | |
|---|---|
| Control device: | Round orifice |
| # of devices: | 1 |
| Width (in.) = | 4.00 |
| Average Head (ft) = | 0.80 ft. |
| 1/2 PAV Recovery Time = | 27.5 hours |

| **Permanent Pool Volume Calculations** | |
|---|---|
| Drainage Area (ac): | 8.88 |
| Residence Time (days): | 31.5 |
| Wet Season (days): | 153 |
| Wet Season Rainfall (in): | 32 |
| Runoff Coefficient: | 0.73 |
| Base Flow (cfs): | |
| Littoral Zone Provided? | No |
| **PPV Required (ac-ft):** | **3.55** |
| **PPV Provided (ac-ft):** | **9.19** |
| **Mean Depth (ft):** | **7.3** |
| **Max. Depth (ft):** | **12** |

***Sunbridge Parkway (Segments 2-4)***
***Wet Detention Water Quality Calculations - SJRWMD***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **SMA-3** |
| **Treatment Pond:** | **SMA-3** |
| **Basin Area:** | **11.80 acres** |

Basin Summary

| Land Cover | Pervious Area (ac) | Impervious Area (ac) | Water Surface (ac) | Total Area (ac) |
|---|---|---|---|---|
| Open Space (Good) | 0.89 | 0.00 | 0.00 | 0.89 |
| R.O.W. (80%) | 1.90 | 7.58 | 0.00 | 9.48 |
| Water Surface | 0.00 | 0.00 | 1.43 | 1.43 |
| Totals | 2.79 | 7.58 | 1.43 | 11.80 |

**Treatment Volume Calculations**

| | |
|---|---|
| Does system discharge directly to O.F.W. or Class I/II waters? | **Yes** |

1-in. x Total Area = 0.98 ac-ft
2.5-in. x Impervious Area = 1.58 ac-ft

| | | |
|---|---|---|
| **Required Treatment Volume =** | **2.37 ac-ft** | (includes additional 50% treatment volume) |

Pond Data

| Stage (ft - NAVD) | Area (ac) | Volume Below DNW (ac-ft) | Volume Above DNW (ac-ft) | |
|---|---|---|---|---|
| 58.5 | 0.51 | 9.69 | - | Bottom |
| 65.5 | 0.77 | 5.20 | - | Grade Break |
| 70.5 | 1.31 | 0.00 | 0.00 | DNW |
| 71.5 | 1.43 | | 1.37 | |
| 72.5 | 1.55 | | 2.86 | |
| 73.5 | 1.68 | | 4.47 | |
| 74.5 | 1.81 | | 6.22 | |
| 75.5 | 2.08 | | 8.16 | Outside Top of Berm |

Minimum weir elevation = 72.17 ft
1/2 Treatment volume elevation = 71.37 ft

| | |
|---|---|
| **Design Weir Elevation =** | **74.50 ft** |
| **Treatment Volume Provided =** | **6.22 ac-ft** |

**Control Device Calculations**

| | |
|---|---|
| Control device: | Round orifice |
| # of devices: | 1 |
| Width (in.) = | 4.50 |
| Average Head (ft) = | 1.08 ft. |
| 1/2 PAV Recovery Time = | 25.9 hours |

| **Permanent Pool Volume Calculations** | |
|---|---|
| Drainage Area (ac): | 11.80 |
| Residence Time (days): | 31.5 |
| Wet Season (days): | 153 |
| Wet Season Rainfall (in): | 32 |
| Runoff Coefficient: | 0.73 |
| Base Flow (cfs): | |
| Littoral Zone Provided? | No |
| **PPV Required (ac-ft):** | **4.76** |
| **PPV Provided (ac-ft):** | **9.69** |
| **Mean Depth (ft):** | **7.4** |
| **Max. Depth (ft):** | **12** |

***Sunbridge Parkway (Segments 2-4)***
***Wet Detention Water Quality Calculations - SJRWMD***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **SMA-4** |
| **Treatment Pond:** | **SMA-4** |
| **Basin Area:** | **11.18 acres** |

Basin Summary

| Land Cover | Pervious Area (ac) | Impervious Area (ac) | Water Surface (ac) | Total Area (ac) |
|---|---|---|---|---|
| Open Space (Good) | 0.87 | 0.00 | 0.00 | 0.87 |
| R.O.W. (80%) | 1.77 | 7.07 | 0.00 | 8.84 |
| Water Surface | 0.00 | 0.00 | 1.47 | 1.47 |
| Totals | 2.64 | 7.07 | 1.47 | 11.18 |

**Treatment Volume Calculations**

| | |
|---|---|
| Does system discharge directly to O.F.W. or Class I/II waters? | **Yes** |

1-in. x Total Area = 0.93 ac-ft
2.5-in. x Impervious Area = 1.47 ac-ft

**Required Treatment Volume = 2.21 ac-ft** (includes additional 50% treatment volume)

Pond Data

| Stage (ft - NAVD) | Area (ac) | Volume Below DNW (ac-ft) | Volume Above DNW (ac-ft) | |
|---|---|---|---|---|
| 59.5 | 0.57 | 10.33 | - | Bottom |
| 66.5 | 0.82 | 5.45 | - | Grade Break |
| 71.5 | 1.36 | 0.00 | 0.00 | DNW |
| 72.5 | 1.48 | | 1.42 | |
| 73.5 | 1.60 | | 2.96 | |
| 74.5 | 1.73 | | 4.62 | |
| 75.5 | 1.86 | | 6.41 | |
| 76.5 | 2.13 | | 8.40 | Outside Top of Berm |

Minimum weir elevation = 73.02 ft
1/2 Treatment volume elevation = 72.28 ft

| | |
|---|---|
| **Design Weir Elevation =** | **75.50 ft** |
| **Treatment Volume Provided =** | **6.41 ac-ft** |

**Control Device Calculations**

| | |
|---|---|
| Control device: | Round orifice |
| # of devices: | 1 |
| Width (in.) = | 4.50 |
| Average Head (ft) = | 0.96 ft. |
| 1/2 PAV Recovery Time = | 25.7 hours |

| **Permanent Pool Volume Calculations** | |
|---|---|
| Drainage Area (ac): | 11.18 |
| Residence Time (days): | 31.5 |
| Wet Season (days): | 153 |
| Wet Season Rainfall (in): | 32 |
| Runoff Coefficient: | 0.73 |
| Base Flow (cfs): | |
| Littoral Zone Provided? | No |
| **PPV Required (ac-ft):** | **4.51** |
| **PPV Provided (ac-ft):** | **10.33** |
| **Mean Depth (ft):** | **7.6** |
| **Max. Depth (ft):** | **12** |

***Sunbridge Parkway (Segments 2-4)***
***Wet Detention Water Quality Calculations - SJRWMD***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **SMA-5** |
| **Treatment Pond:** | **SMA-5** |
| **Basin Area:** | **10.86 acres** |

Basin Summary

| Land Cover | Pervious Area (ac) | Impervious Area (ac) | Water Surface (ac) | Total Area (ac) |
|---|---|---|---|---|
| Open Space (Good) | 0.80 | 0.00 | 0.00 | 0.80 |
| R.O.W. (60%) | 2.23 | 3.34 | 0.00 | 5.57 |
| R.O.W. (80%) | 0.57 | 2.26 | 0.00 | 2.83 |
| Water Surface | 0.00 | 0.00 | 1.66 | 1.66 |
| Totals | 3.59 | 5.61 | 1.66 | 10.86 |

**Treatment Volume Calculations**

| | |
|---|---|
| Does system discharge directly to O.F.W. or Class I/II waters? | **Yes** |

1-in. x Total Area = 0.91 ac-ft
2.5-in. x Impervious Area = 1.17 ac-ft

**Required Treatment Volume = 1.75 ac-ft** (includes additional 50% treatment volume)

Pond Data

| Stage (ft - NAVD) | Area (ac) | Volume Below DNW (ac-ft) | Volume Above DNW (ac-ft) | |
|---|---|---|---|---|
| 54 | 0.81 | 13.46 | - | Bottom |
| 61 | 1.08 | 6.86 | - | Grade Break |
| 66 | 1.66 | 0.00 | 0.00 | DNW |
| 67 | 1.79 | | 1.73 | |
| 68 | 1.92 | | 3.58 | |
| 69 | 2.05 | | 5.57 | |
| 70 | 2.33 | | 7.76 | Outside Top of Berm |

Minimum weir elevation = 67.01 ft
1/2 Treatment volume elevation = 66.51 ft

| | |
|---|---|
| **Design Weir Elevation =** | **68.75 ft** |
| **Treatment Volume Provided =** | **5.07 ac-ft** |

**Control Device Calculations**

| | |
|---|---|
| Control device: | Round orifice |
| # of devices: | 1 |
| Width (in.) = | 4.50 |
| Average Head (ft) = | 0.57 ft. |
| 1/2 PAV Recovery Time = | 26.3 hours |

| **Permanent Pool Volume Calculations** | |
|---|---|
| Drainage Area (ac): | 10.86 |
| Residence Time (days): | 31.5 |
| Wet Season (days): | 153 |
| Wet Season Rainfall (in): | 32 |
| Runoff Coefficient: | 0.67 |
| Base Flow (cfs): | |
| Littoral Zone Provided? | No |
| **PPV Required (ac-ft):** | **3.98** |
| **PPV Provided (ac-ft):** | **13.46** |
| **Mean Depth (ft):** | **8.1** |
| **Max. Depth (ft):** | **12** |

# APPENDIX E
# ROADSIDE SWALE WATER QUANTITY AND QUALITY ANALYSIS

***Sunbridge Parkway (Segments 2-4)***
***Swale Section Basin Hydrology Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **PRE-SWALE** |
| **Receiving Node:** | **PRE-SWALE** |
| **Basin Area:** | **71.59 acres** |

**Curve Number (CN) Calculations**

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 20 | Immokalee Fine Sand | B/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 40 | Samsula Muck | A/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| Brush (Fair) | A | 35 | 0.17 | | 0.17 | 6 |
| Pasture (Good) | A | 39 | 12.76 | | 12.76 | 498 |
| Pasture (Good) | D | 80 | 34.79 | | 34.79 | 2783 |
| Wetlands | A | 98 | 0.23 | | 0.23 | 23 |
| Wetlands | D | 98 | 4.07 | | 4.07 | 399 |
| Woods (Good) | A | 30 | 3.12 | | 3.12 | 94 |
| Woods (Good) | D | 77 | 0.03 | | 0.03 | 2 |
| Woods-Grass Comb. (Good) | A | 32 | 12.82 | | 12.82 | 410 |
| Woods-Grass Comb. (Good) | D | 79 | 3.60 | | 3.60 | 284 |
| Totals: | | | 71.59 | - | 71.59 | 4499 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **63** |
| **Composite DCIA =** | **-** |

| | |
|---|---|
| **Basin:** | **POST-SWALE** |
| **Receiving Node:** | **POST-SWALE** |
| **Basin Area:** | **71.59 acres** |

| Soil Index Number | Soil Index Name | Hydrologic Group |
|---|---|---|
| 3 | Basinger Fine Sand, depressional | A/D |
| 20 | Immokalee Fine Sand | B/D |
| 34 | Pomello Fine Sand, 0 to 5% slopes | A |
| 37 | St. Johns Fine Sand | B/D |
| 40 | Samsula Muck | A/D |
| 42 | Sanibel Muck | A/D |
| 44 | Smyrna Fine Sand | A/D |

| Land Cover | Hydrologic Group | Curve Number (Excluding DCIA) | Pervious & NDCIA Area (ac) | DCIA (ac) | Total Area (ac) | CN x Area (exc. DCIA) |
|---|---|---|---|---|---|---|
| R.O.W. (60%) | A | 74 | 29.05 | 0.00 | 29.05 | 2150 |
| R.O.W. (60%) | D | 91 | 42.54 | 0.00 | 42.54 | 3871 |
| Totals: | | | 71.59 | - | 71.59 | 6021 |

| | |
|---|---|
| **Composite CN (exc. DCIA) =** | **84** |
| **Composite DCIA =** | **-** |

***Sunbridge Parkway (Segments 2-4)***
***Swale Section Basin Runoff Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

**Pre-Development Conditions**

| | | | Pervious and Non-Directly Connected Impervious Areas | | | | Directly Connected Impervious Areas (DCIA) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Basin | Area (ac.) | Rainfall (in.) | CN (w/o DCIA) | Storage Capacity (S) | Runoff Depth (in.) | Runoff Volume (ac-ft) | DCIA (%) | Storage Capacity (S) | Runoff Depth (in.) | Runoff Volume (ac-ft) | Combined Runoff (ac-ft) |
| PRE-SWALE | 71.59 | 8.60 | 63 | 5.91 | 4.13 | 24.62 | 0 | 0.20 | 8.36 | 0.00 | 24.62 |
| **Totals:** | **71.59 ac.** | | | | **CN Runoff Volume =** | **24.62 ac-ft** | | | **DCIA Runoff Volume =** | **0.00 ac-ft** | **24.62 ac-ft** |

**Post-Development Conditions**

| | | | Pervious and Non-Directly Connected Impervious Areas | | | | Directly Connected Impervious Areas (DCIA) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Basin | Area (ac.) | Rainfall (in.) | CN (w/o DCIA) | Storage Capacity (S) | Runoff Depth (in.) | Runoff Volume (ac-ft) | DCIA (%) | Storage Capacity (S) | Runoff Depth (in.) | Runoff Volume (ac-ft) | Combined Runoff (ac-ft) |
| POST-SWALE | 71.59 | 8.60 | 84 | 1.89 | 6.68 | 39.88 | 0 | 0.20 | 8.36 | 0.00 | 39.88 |
| **Totals:** | **71.59 ac.** | | | | **CN Runoff Volume =** | **39.88 ac-ft** | | | **DCIA Runoff Volume =** | **0.00 ac-ft** | **39.88 ac-ft** |

**Runoff Volume per Unit Length Calcualtions**

| | Runoff Volume (ac-ft) | Runoff Volume (ft3) | Length of Swale Section (ft) | Runoff Volume per LF ($ft^3/ft$) |
|---|---|---|---|---|
| Post-Dev: | 24.62 | 1,072,512 | 18,128 | **59.16** |
| Pre-Dev: | 39.88 | 1,737,227 | 18,128 | **95.83** |

***Sunbridge Parkway (Segments 2-4)***
***Segment 4 Water Quality and Quantity Calculations***

Date: 9/27/17
By: CDH
Ck: JTT

| | |
|---|---|
| **Basin:** | **SWALE** |
| **Treatment Swale:** | **SWALE** |
| **Typical Section*:** | **172.00 ft** |

*Typical section for rural right-of-way

Basin Summary

| Land Cover | Pervious Area ($ft^2/ft$) | Impervious Area ($ft^2/ft$) | Total Area ($ft^2/ft$) |
|---|---|---|---|
| R.O.W. (60%) | 74.00 | 98.00 | 172.00 |
| Totals | 74.00 | 98.00 | 172.00 |

### Treatment Volume Calculations

| | |
|---|---|
| Does system discharge directly to O.F.W. or Class I/II waters? | **Yes** |
| Is basin less than 40% impervious and contain only "A" soils? | **No** |
| Is treatment pond on-line or off-line? | **On-line** |

1-in. x Total Area = 14.33 $ft^3/ft$

1.25-in. x Imperv. Area + 0.5-in. x Total Area = 17.38 $ft^3/ft$

**Treatment Volume** = 26.06 $ft^3/ft$** (includes additional 50% treatment volume)

**Volume required per linear foot of right-of-way

### Attenuation Volume Calculations

Pre-Development Runoff Volume = 59.16 $ft^3/ft$
Post-Development Runoff Volume = 95.83 $ft^3/ft$

**Attenuation Volume** = 36.67 $ft^3/ft$**

**Volume required per linear foot of right-of-way

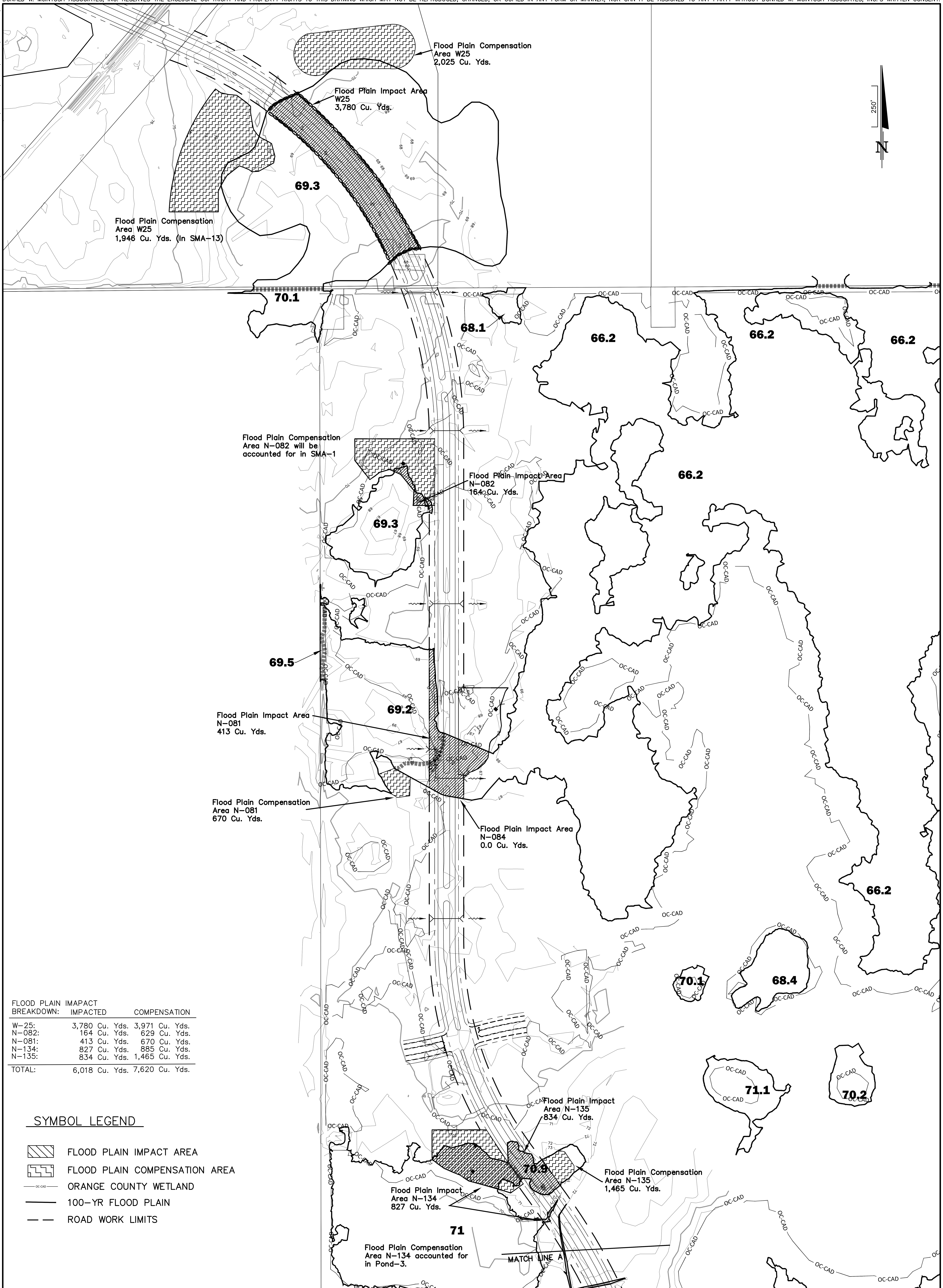
### Swale Volume Summary

| Swale Data (per Swale) | | | | |
|---|---|---|---|---|
| Stage (ft) | Width (ft) | Volume ($ft^3/ft$) | Total Volume*** ($ft^3/ft$) | |
| 0 | 4.00 | | 0.00 | Bottom |
| 0.5 | 8.00 | 3.00 | 6.00 | |
| 1 | 12.00 | 8.00 | 16.00 | |
| 1.5 | 16.00 | 15.00 | 30.00 | |
| 2 | 20.00 | 24.00 | 48.00 | |
| 2.5 | 24.00 | 35.00 | 70.00 | Outside Top of Berm |

***Total area of swales on both sides of right-of-way; See rural typical section on following sheet for swale dimensions.

| | |
|---|---|
| **Stage at Treatment Volume =** | **1.34 ft** |
| **Stage at Attenutation Volume =** | **1.69 ft** |
| **Avg Provided Swale Depth =** | **1.75 ft** |

# APPENDIX F
# FLOODPLAIN IMPACT ANALYSIS




| FLOOD PLAIN IMAPACT BREAKDOWN: | IMPACTED | COMPENSATION |
|---|---|---|
| W-25: | 3,780 Cu. Yds. | 3,971 Cu. Yds. |
| N-082: | 164 Cu. Yds. | 629 Cu. Yds. |
| N-081: | 413 Cu. Yds. | 670 Cu. Yds. |
| N-134: | 827 Cu. Yds. | 885 Cu. Yds. |
| N-135: | 834 Cu. Yds. | 1,465 Cu. Yds. |
| TOTAL: | 6,018 Cu. Yds. | 7,620 Cu. Yds. |

## SYMBOL LEGEND

- FLOOD PLAIN IMPACT AREA
- FLOOD PLAIN COMPENSATION AREA
- ORANGE COUNTY WETLAND
- 100-YR FLOOD PLAIN
- ROAD WORK LIMITS

| DRAWING SP-PDS-XCOMP | SUNBRIDGE PARKWAY (SEG. 2-4) PRELIMINARY DESIGN STUDY ORANGE COUNTY , FLORIDA | DONALD W. McINTOSH ASSOCIATES, INC. ENGINEERS PLANNERS SURVEYORS 2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068 CERTIFICATE OF AUTHORIZATION NO. 68 | JOHN T. TOWNSEND |
|---|---|---|---|
| SHEET 1 OF 4 | COMPENSATING STORAGE EXHIBIT | DRAWN BY ECR; DESIGNED BY ECR; CHECKED BY JTT; DATE 9/27/17; SCALE 1"=250'; JOB NUMBER SP-PDS | DATE: |

| NO. | DATE | REVISIONS | CHK. |
|---|---|---|---|
| | | | JTT |

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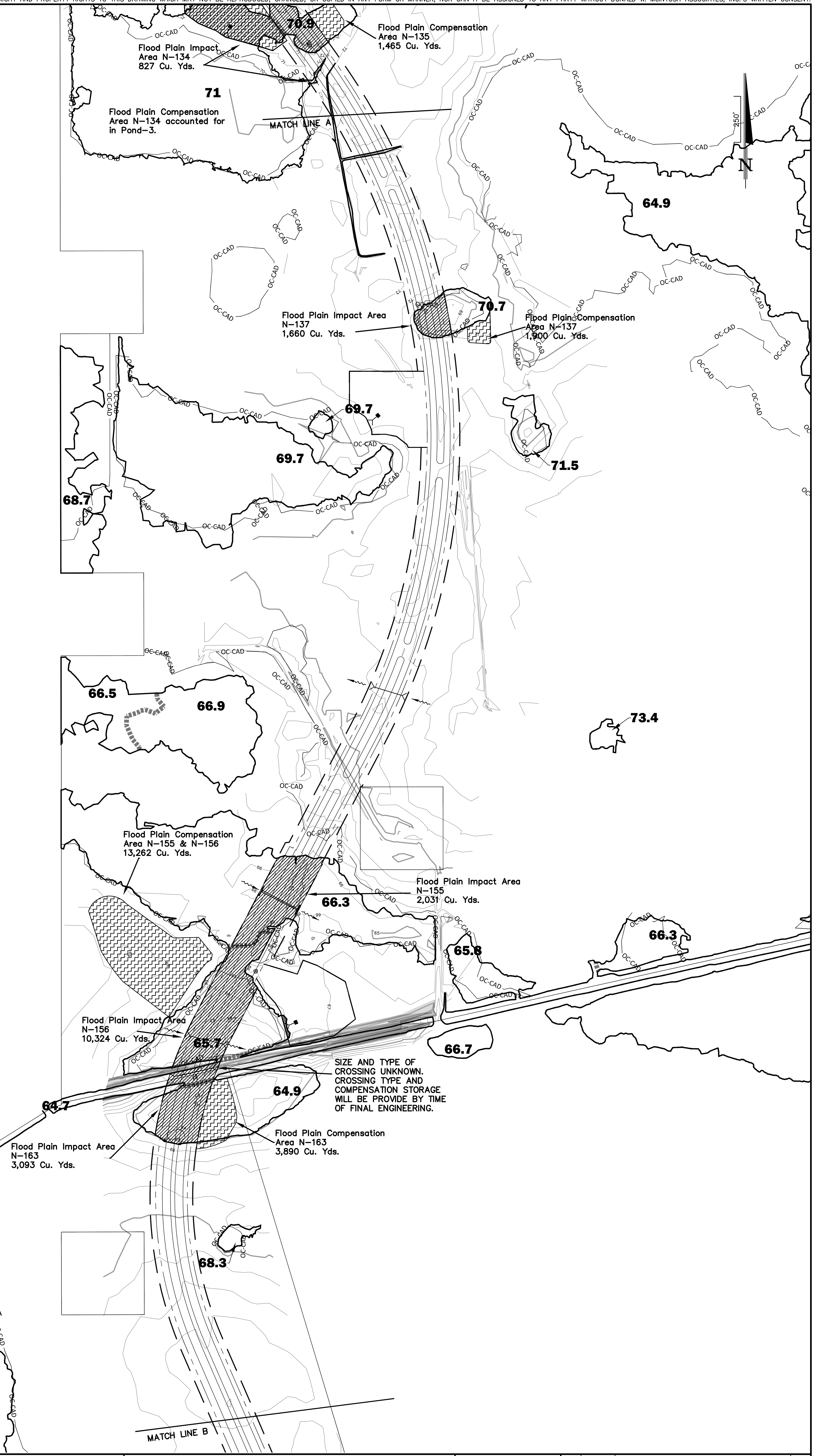


FLOOD PLAIN IMAPACT BREAKDOWN:

| | IMPACTED | COMPENSATION |
|---|---|---|
| N-137: | 1,660 Cu. Yds. | 1,900 Cu. Yds. |
| N-155 & 156: | 12,355 Cu. Yds. | 13,262 Cu. Yds. |
| N-163: | 3,093 Cu. Yds. | 3,890 Cu. Yds. |
| TOTAL: | 17,108 Cu. Yds. | 19,052 Cu. Yds. |

SYMBOL LEGEND

- FLOOD PLAIN IMPACT AREA
- FLOOD PLAIN COMPENSATION AREA
- OC-CAD ORANGE COUNTY WETLAND
- 100-YR FLOOD PLAIN
- ROAD WORK LIMITS

DRAWING SP-PDS-XCOMP

SHEET 2 OF 4

SUNBRIDGE PARKWAY (SEG. 2-4)
PRELIMINARY DESIGN STUDY
ORANGE COUNTY , FLORIDA

COMPENSATING STORAGE EXHIBIT

DONALD W. McINTOSH ASSOCIATES, INC.
ENGINEERS PLANNERS SURVEYORS
2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068
CERTIFICATE OF AUTHORIZATION NO. 68

| DRAWN BY | DESIGNED BY | CHECKED BY | DATE | SCALE | JOB NUMBER |
|---|---|---|---|---|---|
| ECR | ECR | JTT | 9/27/17 | 1"=250' | SP-PDS |

JOHN T. TOWNSEND

DATE: ____

| NO. | DATE | REVISIONS | CHK. |
|---|---|---|---|
| | | | JCN |

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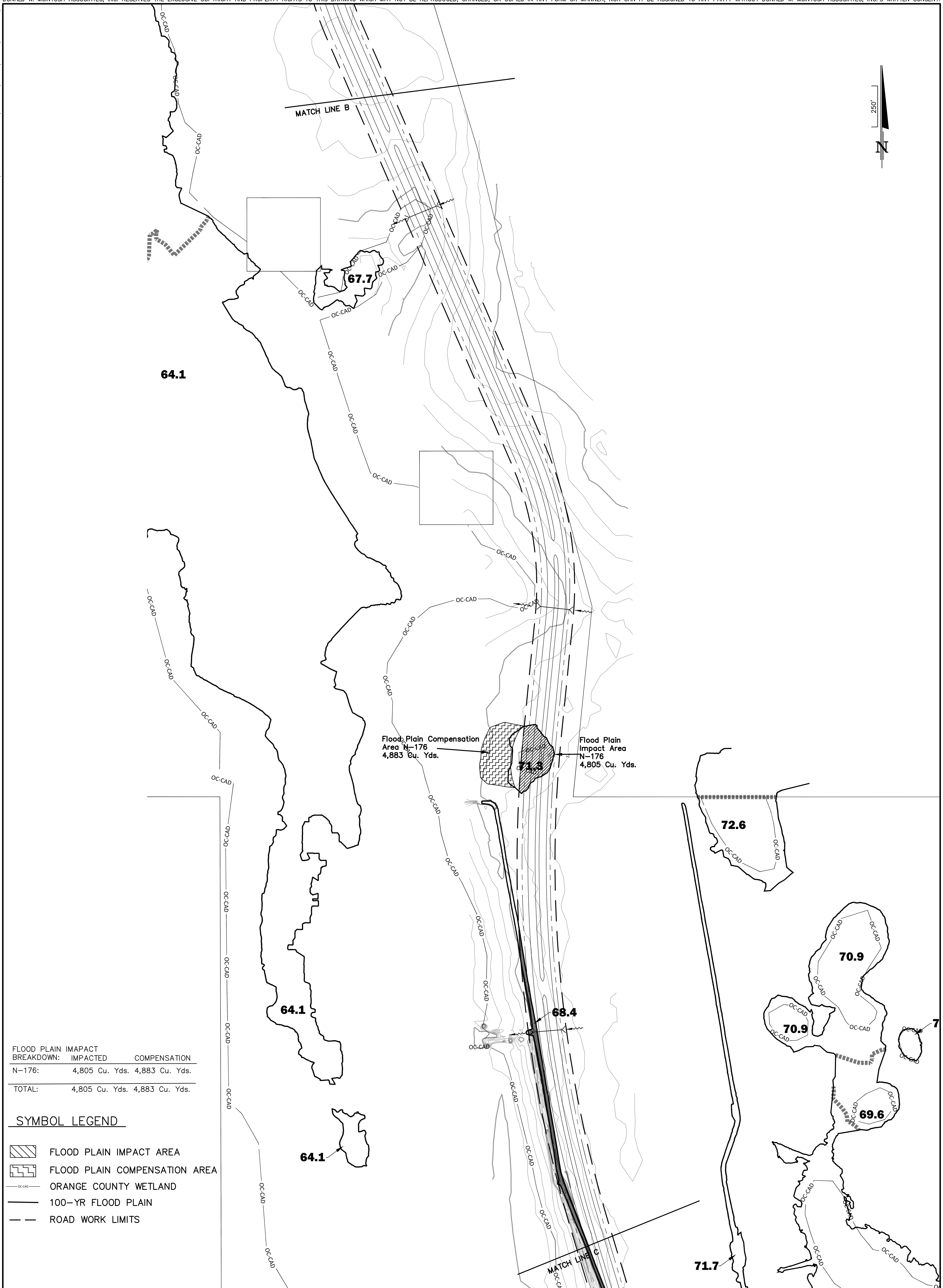


| FLOOD PLAIN IMAPACT BREAKDOWN: | IMPACTED | COMPENSATION |
|---|---|---|
| N-176: | 4,805 Cu. Yds. | 4,883 Cu. Yds. |
| TOTAL: | 4,805 Cu. Yds. | 4,883 Cu. Yds. |

SYMBOL LEGEND

- FLOOD PLAIN IMPACT AREA
- FLOOD PLAIN COMPENSATION AREA
- ORANGE COUNTY WETLAND
- 100-YR FLOOD PLAIN
- ROAD WORK LIMITS

DRAWING SP-PDS-XCOMP

SHEET 3 OF 4

# SUNBRIDGE PARKWAY (SEG. 2-4) PRELIMINARY DESIGN STUDY

ORANGE COUNTY , FLORIDA

COMPENSATING STORAGE EXHIBIT

**DONALD W. McINTOSH ASSOCIATES, INC.**
ENGINEERS PLANNERS SURVEYORS
2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068
CERTIFICATE OF AUTHORIZATION NO. 68

| DRAWN BY | DESIGNED BY | CHECKED BY | DATE | SCALE | JOB NUMBER |
|---|---|---|---|---|---|
| ECR | ECR | JTT | 9/27/17 | 1"=250' | SP-PDS |

JOHN T. TOWNSEND

DATE: ____

| NO. | DATE | REVISIONS | JCN / CHK. |
|---|---|---|---|

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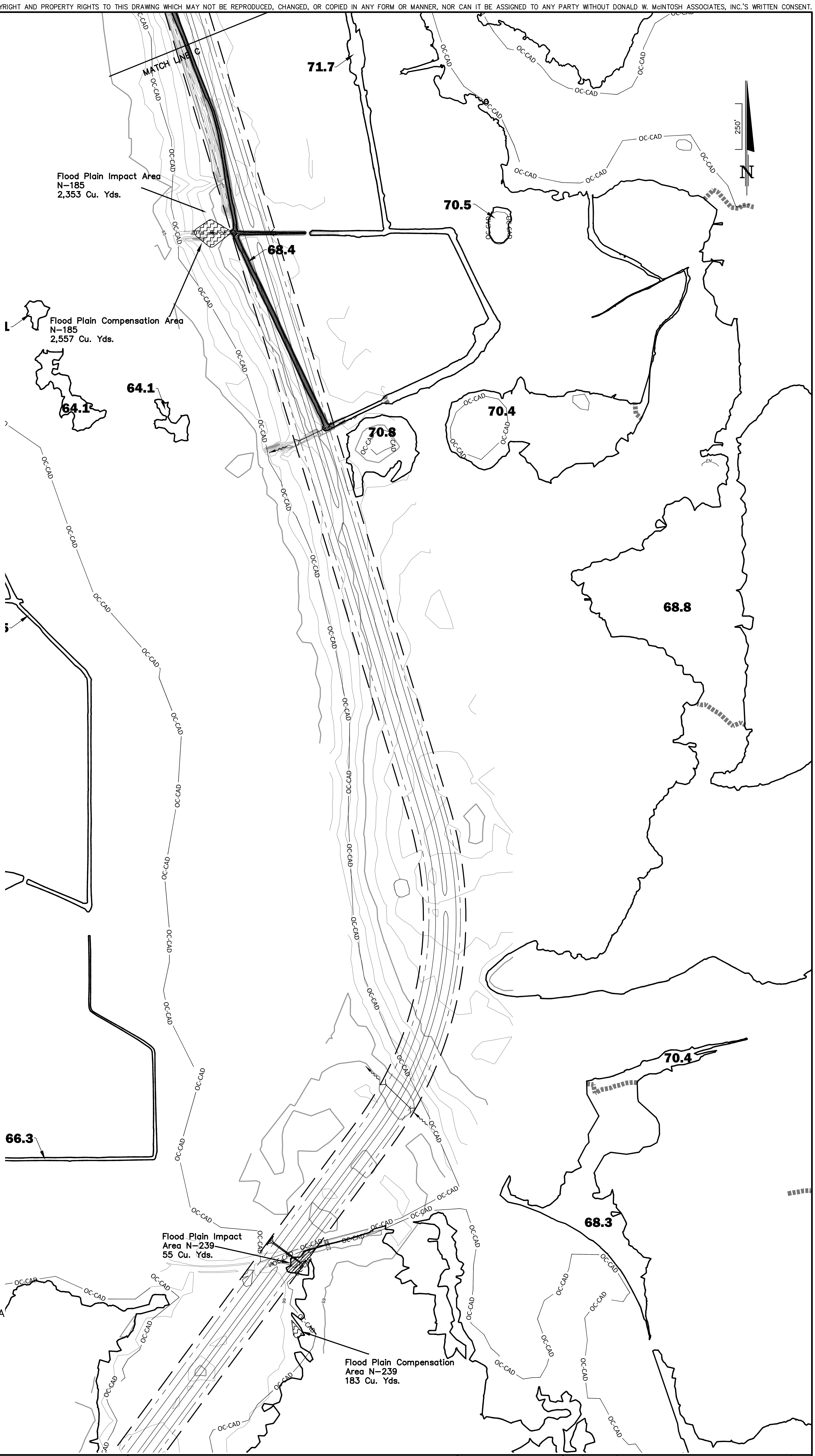


| FLOOD PLAIN IMAPACT BREAKDOWN: | IMPACTED | COMPENSATION |
|---|---|---|
| N-185: | 2,355 Cu. Yds. | 2,557 Cu. Yds. |
| N-239: | 55 Cu. Yds. | 183 Cu. Yds. |
| TOTAL: | 2,410 Cu. Yds. | 2,740 Cu. Yds. |

SYMBOL LEGEND

- FLOOD PLAIN IMPACT AREA
- FLOOD PLAIN COMPENSATION AREA
- OC-CAD ORANGE COUNTY WETLAND
- 100-YR FLOOD PLAIN
- ROAD WORK LIMITS

DRAWING SP-PDS-XCOMP

SHEET 4 OF 4

SUNBRIDGE PARKWAY (SEG. 2-4)
PRELIMINARY DESIGN STUDY
ORANGE COUNTY , FLORIDA

COMPENSATING STORAGE EXHIBIT

DONALD W. McINTOSH ASSOCIATES, INC.
ENGINEERS PLANNERS SURVEYORS
2200 PARK AVENUE NORTH, WINTER PARK, FL 32789 407.644.4068
CERTIFICATE OF AUTHORIZATION NO. 68

| DRAWN BY | DESIGNED BY | CHECKED BY | DATE | SCALE | JOB NUMBER |
|---|---|---|---|---|---|
| ECR | ECR | JTT | 9/27/17 | 1"=250' | SP-PDS |

JOHN T. TOWNSEND

DATE:

| NO. | DATE | REVISIONS | JCN | CHK. |
|---|---|---|---|---|

***Sunbridge Parkway PDS***
***Flood Plain Impact Calculations - (NAVD88)***

Date: 10/31/2017
By: ECR
Ck: JTT

| Flood Plain Name | Initial Stage (ft. NAVD88) | Flood Plain Elevation (ft. NAVD88) | Flood Plain Impact (Cu. Yd.) | Compensating Storage Area (Cu. Yd.) |
|---|---|---|---|---|
| W25[1] | 69.0 | 69.3 | 3,780 | 3,971 |
| N-081 | 68.6 | 69.2 | 413 | 670 |
| N-082[1] | 68.5 | 69.3 | 164 | 629 |
| N-134[1] | 70.0 | 71.0 | 827 | 885 |
| N-135 | 70.0 | 70.9 | 834 | 1465 |
| N-137 | 70.0 | 70.7 | 1,660 | 1,900 |
| N-155 | 64.7 | 66.3 | 2,031 | 13,262 |
| N-156 | 64.0 | 65.7 | 10,324 | |
| N-163 | 63.0 | 64.9 | 3,093 | 3,890 |
| N-176 | 70.0 | 71.3 | 4,805 | 4,883 |
| N-185 | 64.6 | 68.4 | 2,353 | 2,557 |
| N-239 | 64.2 | 65.5 | 55 | 183 |
| **Total** | | | **30,339** | **34,295** |

Notes:

1) Compensating storage provided within hydraulically connected stormwater management ponds. See following sheets for supporting calculations.

2) Volume of compensating storage provided within excavated areas estimated as the height between the existing ground surface and the estimated seasonal high water elevation multiplied by the area shown in the preceding exhibits. Acuta limits of excavation, size of easement, and cross-sections for each of the areas to be determined at time of final design.

***Sunbridge Parkway PDS***
***Compensating Storage Calculations - (NAVD88)***
***Wet Detention Ponds***

Date: 9/27/2017
By: ECR
Ck: JTT

| **Floodplain Area:** | **N-082** |
|---|---|
| **Comp Storage Pond:** | **SMA-1** |

Pond Data

| Stage (ft - NAVD) | Area (ac) | Volume (ac-ft) | |
|---|---|---|---|
| 69 | 1.22 | 0.00 | DNW |
| 70 | 1.37 | 1.30 | |
| 71 | 1.53 | 2.75 | |
| 72 | 1.68 | 4.35 | |
| 73 | 2.01 | 6.20 | Outside Top of Berm |

| | |
|---|---|
| **100 Yr Flood Stage =** | **69.30 ft** |
| **Compensating Storage Provided =** | **0.39 ac-ft** |
| **Compensating Storage Provided =** | **629 Cu. Yds.** |

| **Floodplain Areas:** | **N-134 & N-135** |
|---|---|
| **Comp Storage Pond:** | **SMA-3** |

Pond Data

| Stage (ft - NAVD) | Area (SMA-2) (ac) | Volume (ac-ft) | |
|---|---|---|---|
| 70.5 | 1.31 | 0.00 | DNW |
| 71.5 | 1.43 | 1.37 | |
| 72.5 | 1.55 | 2.86 | |
| 73.5 | 1.68 | 4.47 | |
| 74.5 | 1.81 | 6.22 | |
| 75.5 | 2.08 | 8.16 | Outside Top of Berm |

| | |
|---|---|
| **100 Yr Flood Stage =** | **70.90 ft** |
| **Compensating Storage Provided =** | **0.55 ac-ft** |
| **Compensating Storage Provided =** | **885 Cu. Yds.** |

***Sunbridge Parkway PDS***
***Compensating Storage Calculations - (NAVD88)***
***Wet Detention Ponds***

Date: 9/27/2017
By: ECR
Ck: JTT

| | |
|---|---|
| **Floodplain Areas:** | **W25** |
| **Comp Storage Pond:** | **SMA-13** |

Pond Data

| Stage (ft - NAVD) | Area (ac) | Volume (ac-ft) | |
|---|---|---|---|
| 69 | 3.91 | 0.00 | DNW |
| 70 | 4.12 | 4.02 | |
| 71 | 4.34 | 8.25 | |
| 72 | 4.57 | 12.71 | |
| 73 | 4.79 | 17.39 | Outside Top of Berm |

| | |
|---|---|
| **100 Yr Flood Stage =** | **69.30 ft** |
| **Compensating Storage Provided =** | **1.21 ac-ft** |
| **Compensating Storage Provided =** | **1946 Cu. Yds.** |