

SOUTH BROWARD DRAINAGE DISTRICT



FACILITIES REPORT AND WATER CONTROL PLAN



Volume 1

April 2021



**SOUTH BROWARD DRAINAGE DISTRICT
FACILITIES REPORT & WATER CONTROL PLAN**

April 2021

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FACILITIES REPORT AND WATER CONTROL PLAN



ADOPTED 1993

REVISED 1998

REVISED 2005

REVISED 2013

REVISED 2021

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SOUTH BROWARD DRAINAGE DISTRICT



FACILITIES REPORT AND WATER CONTROL PLAN

SECTION I



EXECUTIVE SUMMARY

The South Broward Drainage District (SBDD) encompasses approximately 46,600 acres (72.8 square miles) in southwest Broward County and is divided into 13 drainage basins. All of the drainage basins within the District meet or exceed the required Level of Service “C” as adopted by the District, which requires that minimum road crown elevations be set at or above the peak stages for a 10-year, 3-day storm event, and that minimum building finished floor elevations be set at or above the peak stages for a 100-year, 3-day storm event. Level of Service analyses were performed using the Advanced Interconnected Channel and Pond Routing (AdICPR) software model.

As part the 2021 Facilities Report Update, SBDD has updated the maps and schedules for the District’s Existing Facilities, including, culverts, flood gates, control structures, staff gauges, water level recorders and fish guards.

Since the previous Facilities Report Update in 2013 there has been limited development throughout the District. With very few exceptions, the majority of basin storage areas and water management areas have been constructed and are currently in place and operational. Therefore, the AdICPR model has only been updated for those basins that experienced significant new development or redevelopment, as noted in the report.

In November of 2020, SBDD experienced Tropical Storm Eta, a rainfall event that exceeded the rainfall amount and intensity of 100-year, 3-day design storm for a significant portion of the District. SBDD recorded rainfall amounts ranging between 10.03” and 18.77” over a 59-hour period; and experienced significant flooding throughout the western half of the District. Despite the historic nature of this rain event, there were no reports of flood waters entering any primary residential structures. In addition to Tropical Storm Eta, SBDD experienced several other major storm events since 2013 as follows: June 2017 rainfall that was rated between a 25-year and 50-year design storm; Hurricane Irma in September 2017 that was rated between a 25-year and 50-year design storm; and a May 2020 rainfall event that was rated between a 25-year and 50-year design storm.

In all of these rain events, SBDD’s recorded flood stages were consistent with the AdICPR model projections for peak stages during the 10-year, 25-year, or 50-year design storms.

An overview of each drainage basin is described below.

BASIN S-1

Basin S-1 encompasses an area of 6.5 square miles in the eastern quadrant of the District and includes the S-1 stormwater pump station and two secondary pump stations (B-1 and B-2). Since 2010, the District has rebuilt all four Caterpillar diesel engines and all four pumps at the S-1 pump station. In 2015, the District installed a 48” emergency by-pass culvert and sluice gate at the S-1 pump station, which has resulted in a significant reduction in operating costs and environmental impacts.

AdICPR model results indicate that the S-1 Basin meets the District’s Level of Service. There are several recommendations for improvements to the basin aimed at enhancing SBDD operations, and all future development and redevelopment projects within the

basin will be required to provide a minimum of 15% water management area and comply with all South Florida Water Management District (SFWMD) and SBDD Criteria.

BASIN S-2, S-7 AND S-13

Basins S-2, S-7, and S-13 are interconnected drainage basins located within the east-central quadrant of the District. Basin S-2 encompasses 7.5 square miles, Basin S-7 encompasses 4.5 square miles, and Basin S-13 encompasses 3.2 square miles. These three basins are served by the District's S-2 and S-7 stormwater pump stations.

The AdICPR model for the S-2, S-7, and S-13 basins was updated in 2013 to account for new developments within the S-2 and S-7 basins, including the Miramar Town Center, Pembroke Pines City Center, Waterview/Foxcroft, Miramar Park of Commerce, Sunbeam Development Corp. residential properties, and the re-development of the Raintree Golf Course site. The AdICPR model results show that SBDD's required Level of Service continues to be met in these basins and all future development and redevelopment projects within these basins will be required to provide a minimum of 20% water management area and comply with all SFWMD and SBDD Criteria.

The District's Canal No. 2 (Palm Avenue) and Canal No. 3 (Flamingo Road) are interconnected through three canal/culvert systems: two are in the S-7 Basin (between Pines Blvd. and Taft Street) and the third is in the S-2 Basin (south of Miramar Parkway). Provisions have been made for a fourth interconnect south of Miramar Boulevard (in the S-2 Basin), and this fourth interconnect will be completed during the construction of the proposed Miramar Station project.

Since 2010, the District has rebuilt all three Caterpillar diesel engines and all three pumps at both the S-2 and S-7 pump stations. In 2013, the District installed an emergency by-pass culvert and sluice gate at the S-7 pump station and installed the same improvement at the S-2 pump station in 2015. These improvements have resulted in a significant reduction in operating costs and environmental impacts at both stations.

BASIN S-3

Basin S-3 encompasses over 9 square miles in the south central quadrant of the District and includes the District's S-3 stormwater pump station. AdICPR model results indicate that the S-3 Basin meets the District's Level of Service.

In 2008, the Washington Street Canal was replaced with twin 66" diameter culverts from SW 145th Avenue to the District's Canal No. 4, west of I-75. In 2014 a second interconnect (48" diameter) was installed from Century Village to the Monarch Lakes Outfall Canal in order to reduce the flood duration for the northeastern quadrant of this basin.

Since 2010, the District has rebuilt all three pumps at the S-3 pump station. In 2014, the District installed a new concrete roof at the S-3 pump station, and in 2016, it

installed motors on the two existing sluice gates at the station, allowing for remote operation of these gates.

The AdICPR model for the S-3 basin was updated in 2012 to account for the second basin-interconnect described above. The updated model results show that SBDD's required Level of Service continues to be met in this basin and that the flood durations in the northeast quadrant have been reduced. All future development and redevelopment projects within the basin will be required to provide a minimum of 20% water management area and comply with all SFWMD and SBDD Criteria.

BASIN S-4

Basin S-4 encompasses approximately 3.25 square miles in the southern quadrant of the District and includes the District's S-4 stormwater pump station. AdICPR model results indicate that the S-4 Basin meets the District's Level of Service and there are no recommendations for future improvements.

The stormwater management system for the basin incorporates a series of lakes and lake interconnecting culverts which enhance basin equalization and reduce the duration of peak stages.

Since 2010, the District has rebuilt one of two Caterpillar diesel engines and has rebuilt both stormwater pumps at the S-4 pump station. The remaining diesel engines has not reached its original hours-of-life expectancy. In 2016, the control system for the S-4 pump station was updated to provide better communications and remote operations by District staff. In 2018, the District installed a sluice gate on the emergency by-pass culvert at the station with remote operational capability.

All future development and redevelopment projects within the basin will be required to provide a minimum of 20% water management area and comply with all SFWMD and SBDD Criteria.

BASIN S-5

Basin S-5 encompasses approximately 12.25 square miles in the southwestern quadrant of the District and includes the District's S-5 stormwater pump station. AdICPR model results indicate that the S-5 Basin meets the District's Level of Service.

The stormwater management system for the basin incorporates a series of lakes, lake interconnecting culverts and internal control structures which enhance basin equalization and reduce the duration of peak stages.

Since 2010, the District has rebuilt one of three Caterpillar diesel engines and all three stormwater pumps at the S-5 pump station. The remaining two diesel engines have not reached their original hours-of-life expectancy. In 2016, the control system for the S-5 pump station was updated to provide better communications and remote operations by District staff; and in 2018, the District installed a sluice gate on the emergency by-pass culvert at the station with remote operational capability.

All future development and redevelopment projects within the basin will be required to provide a minimum of 20% water management area and comply with all SFWMD and SBDD Criteria.

BASIN S-6

Basin S-6 encompasses approximately 1.75 square miles. Most of Basin S-6 has been acquired by SFWMD as part of the Broward County Water Preserve Areas (BCWPA) project, and therefore, is not included as part of the District's Facilities Report.

BASIN S-8

Basin S-8 encompasses an area of approximately 9.5 square miles in the north central quadrant of the District and includes the S-8 stormwater pump station. AdICPR model results indicate that the S-8 Basin meets the District's Level of Service.

Since 2010, the District has rebuilt all three stormwater pumps and one on the three Caterpillar diesel engines at the S-8 pump station. In 2017, SBDD modified SFWMD Permit #06-01400-S to incorporate all of the existing sluice gates along the C-11 Canal into its stormwater management operations, together with the S-8 stormwater pump station. In 2018, SBDD installed a 48" emergency by-pass culvert and sluice gate at the station, which has resulted in a significant reduction in operating costs and environmental impacts. Also in 2018, SBDD modified the "Ivanhoe" sluice gate and tied it into its telemetry system to allow for the remote operation of this gate. In 2019, SBDD modified the remaining three sluice gates along the C-11 Canal and tied them into its telemetry system as well.

All future development and redevelopment projects within the basin will be required to provide a minimum of 20% water management area and comply with all SFWMD and SBDD Criteria.

BASIN S-9 AND S-10

Basins S-9 and S-10 are interconnected drainage basins located within the northwest quadrant of the District. The total combined area of the two basins is approximately 11 square miles. Included within the geographical boundaries of the basins are District Control Structures CS-12, CS-13 and CS-13A and District Intermediate Control Structures ICS-12, ICS-13 and ICS-13A.

In 2006, District Control Structures CS-12, CS-13 and CS-13A were installed in accordance with a SFWMD permit to limit/control discharge to the C-11 Canal and to improve water quality throughout the Western C-11 Basin. All other outfall connections from the S-9/S-10 Basins to the C-11 Canal were closed and water quality for both basins is provided behind the control structures.

In 2011, SBDD and the Town of SW Ranches installed Intermediate Control Structures ICS-12, ICS-13 and ICS-13A at the southern limits of SW Ranches. These intermediate structures were installed as part of a pilot project under a Memorandum of Agreement (MOA) among SFWMD, SW Ranches, SBDD and the Department of Agriculture and Consumer Services with the primary objectives to lower groundwater elevations in SW Ranches and improve water quality. During the duration of the pilot project all goals and objectives of the MOA were met and in 2016, SBDD and the Town modified the SFWMD S-9/S-10 Basin Permit to allow for the full-time, year-round operation of the intermediate control structures.

The AdICPR model was updated in 2011 to account for the installation of the intermediate control structures at the southern limits of SW Ranches. The updated model results show that SBDD's required Level of Service continues to be met in both basins.

All future development and redevelopment projects within the basins will be required to provide a minimum of 20% water management area and comply with all SFWMD and SBDD Criteria.

BASIN S-11

Basin S-11 encompasses approximately 1.9 square miles. Most of Basin S-11 has been acquired by SFWMD as part of the Broward County Water Preserve Areas (BCWPA) project, and therefore, is not included as part of the District's Facilities Report.

BASIN S-12

Basin S-12 encompasses approximately 2.5 square miles in the south central quadrant of the District and is not controlled by any of SBDD's pump stations. The basin currently meets the District's adopted Level of Service.

The discharge connections for the S-12 Basin are located downstream from the District's S-3 and S-7 pump stations and therefore, developments within Basin S-12 do not impact any of the SBDD's conveyance systems. All developments within the S-12 Basin are required to obtain individual permits from SBDD and the SFWMD and must meet minimum requirements for stormwater retention and water quality standards prior to discharging into the C-9 Canal (via a control structure).

AUTHORIZATION

The South Broward Drainage District, which was originally known as the Hollywood Reclamation District, was created in 1927 by the Florida Legislature by Chapter 12049, Laws of Florida, out of a portion of the Napoleon B. Broward Drainage District. In 1967 the original Hollywood Reclamation District was abolished and a new Hollywood Reclamation District was created by Chapter 67-904, Laws of Florida. In 1986 the name of the District was changed to South Broward Drainage District by Chapter 86-362, Laws of Florida. In 1992, the boundaries of the District were revised to include the area previously known as Bailey Drainage District (created by Chapter 67-950, Laws of Florida). In 1998, the District's 1967 Charter and all amendments thereto were repealed and along with minor revisions, were included in a codification of the Districts' Charter approved by the Florida Legislature by Chapter 98-524, Laws of Florida. Since that time there have been several amendments to the District's Charter, with the latest update being adopted in 2011.

Under the direction of the District Board of Commissioners, the original Facilities Report was created and adopted in 1993. Since then, the Facilities Report was updated in 1998, 2005, and 2013, and each update was adopted by the District Board of Commissioners.

The District's Facilities Report shall also serve as the District's Water Control Plan in accordance with Section 21 of the District Charter. The District's Facilities Report/Water Control Plan which is currently in effect shall remain in full force and effect until such time as it is modified and adopted by the District Board of Commissioners.

It is the District's intention to update this Facilities Report from time to time, as necessary. All Facilities Report Updates will be submitted to South Florida Water Management District, Broward County, Town of Davie, City of Hollywood, City of Pembroke Pines, City of Miramar, and Town of Southwest Ranches.

ACKNOWLEDGEMENTS

This report update was prepared under the direction of the District Director of the South Broward Drainage District. The narrative for the 2021 update was prepared in-house by SBDD staff. In some cases, portions of previous narratives written and prepared by the District's Consulting Engineer, Calvin Giordano & Associates, Inc. (CGA) have been used. The technical data, maps and exhibits presented in the update were prepared previously by CGA or in-house by SBDD staff. The 2005 Advanced Interconnected Pond Routing (AdICPR) model was performed by CGA. Subsequent AdICPR model updates for the SBDD Basins S-2, S-7 and S-13 and SBDD Basins S-9/S-10 were performed by CGA; subsequent AdICPR model updates for the SBDD Basins S-2, S-7, and S-13 and SBDD Basin S-3 were prepared by Bohler Engineering, Inc.; a subsequent AdICPR model update for SBDD Basin S-1 was prepared by Craven Thompson & Associates, Inc.; a subsequent AdICPR update for SBDD Basin S-5 was performed by HSQ Group, Inc.; and a subsequent AdICPR update for SBDD Basin S-4 was performed in-house by SBDD staff.

BACKGROUND

South Broward Drainage District (SBDD) exists pursuant to the provisions of Chapter 98-524, Laws of Florida. The District was originally created in 1927, and manages approximately 46,600 acres (72.8 square miles) in southwest Broward County, Florida and serves a population of approximately 240,000 residents. SBDD is an independent, special district charged with providing stormwater management and flood control.

SBDD is generally bounded on the north by Sheridan Street and Griffin Road (SFWMD C-11 Canal), on the west by the Everglades Conservation Area, on the south by the Miami-Dade County/Broward County line (SFWMD C-9 Canal and the Florida Turnpike Extension) and on the east by University Drive (See Figure I-1). The legal description of the District is shown in Exhibit "A".

The SBDD jurisdictional boundaries encompass portions of five (5) different municipalities, as depicted in Figure I-2. The District is governed by a seven-member Board of Commissioners who are elected into office by the qualified electors of the District on a nonpartisan basis. The seven Commissioners are elected from seven single-member zones as depicted in Figure I-3. All District business is conducted in accordance with Florida's open government laws (Sunshine laws).

The District headquarters are located on a 13-acre parcel of land at 6591 Southwest 160th Avenue, Southwest Ranches, FL 33331 where SBDD maintains offices, operations, and maintenance facilities. This property also serves as a Disaster Debris Management Site in the event of a natural disaster. From the SBDD headquarters, District staff coordinates the operation and maintenance of seven (7) primary pump stations, two (2) secondary pump stations, approximately 44 miles of freshwater canals, 7,700 acres of lakes, and numerous culverts and control structures. The District's responsibility for maintaining these facilities is to ensure stormwater conveyance and flood protection, as well as water quality and recharge. Integrated systems of mechanical, chemical and biological methods are utilized to control and manage the aquatic vegetation in the District's waterways. SBDD also maintains an inventory of the District's facilities, which is updated annually.

SBDD is divided into 13 drainage basins as shown in Figure I-4. Drainage Basins S-8, S-9, S-10 and S-11, located in the northwest portion of the District, discharge to the SFWMD C-11 Canal via SBDD Canal Nos. 11, 12, 13, 13A, and 15. The remainder of the District's drainage basins discharge to the SFWMD C-9 Canal by way of SBDD Canals No. 1, 2, 3, 4, and 9. Throughout the District, conveyance of stormwater discharge to the District's primary canal system is achieved through a series of interconnected lakes, culverts and other water management features.

The District's facilities are designed to provide the following water management functions:

- Conveyance of stormwater runoff
- Storage and attenuation of stormwaters
- Provide water quality in accordance with SFWMD Criteria

- Control discharge to SFWMD receiving waters in accordance with SFWMD Criteria and existing SFWMD permits
- Pretreatment of stormwater runoff prior to discharge
- Provide flood protection for homes and properties throughout the District
- Conservation during the dry season

The discharge capacities of these facilities are based on the maximum allowable discharge to the SFWMD canals, which is 0.75” per acre, per day for the C-9 Canal and 1.25” per acre, per day for the C-11 Canal. SBDD has adopted a Level of Service for its primary facilities and has implemented design standards to ensure that project developments meet these required levels of service. This District has adopted a minimum Level of Service “C”, which requires that minimum road crown elevations be set at or above the peak stages for a 10-year, 3-day storm event, and that minimum building finished floor elevations be set at or above the peak stages for a 100-year, 3-day storm event.

Based on the District’s most recent Facilities Report Update, all properties within SBDD’s jurisdictional boundaries meet or exceed the District’s adopted Level of Service. SBDD coordinates closely with SFWMD, Broward County and other local municipalities during extreme weather events to ensure that the highest level of flood protection is achieved before, during and after these storm events.

The District has prepared and adopted a Stormwater Management Regulations, Standards, Procedures and Design Criteria Manual for the purpose of promoting general welfare, health, safety, comfort, convenience and economic well-being of the residents and property owners within SBDD by minimizing flooding and ensuring proper water management. The Criteria Manual provides design professionals and other individuals with a set of guidelines and requirements for the design and implementation of water management projects within the District. The SBDD Stormwater Management Regulations, Standards, Procedures and Design Criteria Manual is included as an Appendix to this Facilities Report.

In 2013 SBDD received the Broward County NatureScape Emerald Award for its efforts in improving water quality in SW Broward County, and in 2017 the District received a second Emerald Award as a Climate Action Leader for its Sluice Gate Projects and Green Infrastructure Initiates. In 2019 SBDD was a joint recipient of the Broward County NatureScape Emerald Award with the Town of SW Ranches for the Dykes Road Drainage and Water Quality project. SBDD received the annual Safety Award from the Florida Association of Special Districts (FASD) in 2012, and again in 2018.

SBDD is an annual sponsor and active participant in Broward County’s Water Matters Day, which is the County’s signature water conservation event where residents can learn about local and regional water resources, how water is managed and how the region is planning for the future. In addition, SBDD is a member of the Broward County Surface Water Management Coordination Committee which includes representatives of Broward County, local municipalities and special districts, and whose purpose is to discuss and coordinate water management and drainage issues throughout Broward County. Finally, members of the SBDD Board, staff and outside consultants (District Attorney) are

actively involved with the Broward County Technical Advisory Committee to the Water Advisory Board and the Broward County Water Resources Task Force.

OBJECTIVES

The primary objective of this Facilities Report is to review and evaluate the existing public facilities owned and operated by the South Broward Drainage District and to assess the needs of the District based on the following criteria:

- Adopted Level of Service
- Drainage analyses and stormwater modeling data
- Age and condition of existing infrastructure
- Performance and capacities of existing infrastructure
- Projected developments for the next five to ten years
- Existing and/or updated regulatory requirements

The needs and assessments of the District are evaluated for each individual drainage basin throughout the District using the following methodology:

- Update and document the existing facilities within each drainage basin to include: pump stations, control structures, weirs, culverts, canals, lakes, etc.
- Perform a drainage analysis of each basin to determine the maximum stages for the 10-year, 3-day and 100-year, 3-day storm events. If appropriate, the District may utilize stormwater modeling software to perform this analysis.
- Review the drainage analysis for each basin to determine if the District's desired Level of Service for current and future build out conditions is met.
- Identify drainage facilities which exhibit excessive hydraulic losses or otherwise require upgrades.
- Recommend improvements to ensure that the District's required Level of Service is met.

Other objectives of this Facilities Report include:

- Provide maps, exhibits, drawings, etc. that depict the description, location, sizes, etc. of District facilities.
- Provide a description of each drainage basin within the District.
- Provide a summary of the drainage analysis for each basin.
- Provide a summary of the basin characteristics for each basin that includes the design control elevation; the 10-year, 3-day flood elevation (minimum road crown elevation); the 100-year, 3-day flood elevation (minimum finished floor elevation); discharge capacities; and SFWMD receiving waters.
- Provide recommendations for drainage improvements.
- Provide design criteria for meeting the District's adopted Level of Service.

GENERAL

The following methodology was used in preparing the initial South Broward Drainage District Facilities Report issued in 1993, and all subsequent updates:

Data Collection

- Evaluate the study area.
- Identify, locate and verify new and existing drainage facilities.
- Update the physical characteristics of each drainage basin.
- Review current South Florida Water Management District (SFWMD) requirements.

Engineering Analysis

- Perform drainage analyses and stormwater modeling (AdICPR); update the AdICPR model as necessary for updates.
- Review data and assess needs.

Recommendations

- Prepare recommendations for basin improvements to meet the adopted Level of Service for the District and/or improve basin characteristics.

A detailed description of the methodology used for the initial Facilities Report and all subsequent updates, including the 2021 Facilities Report update is shown below.

DATA COLLECTION

Updating and Redefining the Study Area

SBDD has experienced a limited amount of urban development since the 2013 Facilities Report update. Therefore, much of drainage analysis of the individual basin areas (i.e.: AdICPR modeling) is based on the input data from the 2005 AdICPR model, except as noted. For this Facilities Report update, the AdICPR model for Basin S-1 was updated.

SBDD facilities consist of pump stations, culverts, water control structures, canals and lakes. SBDD staff has identified, located and verified new and existing facilities. This information has been updated and is included in the 2021 Facilities Report update. The maps and exhibits included in this 2021 update were updated and printed in 2019.

Updating the Physical Characteristics

After updating and redefining the study area, the physical characteristics of the individual drainage basins were compiled. Such characteristics include the number of sub-basins, their land use characteristics, percentage of water management area and drainage patterns. The hydraulic and hydrologic parameters such as head loss coefficients, SCS curve numbers (for undeveloped parcels, the Broward County Land Use Plan, Figure I-5, was used to estimate the curve number), time of concentration and

stage storage relationships were calculated based on the land use patterns of the area in question. Table I-1 lists all of the general nodal assumptions that were used in the older areas where detailed information was not available from permits or plans, as well as the rainfall data used in the AdICPR model runs.

Reviewing Current SFWMD Requirements

The SFWMD C-9 Canal and C-11 Canal represent the boundary conditions (tail waters) for the SBDD primary canals. Discharge rates to the C-9 Canal and C-11 Canal are established by SFWMD. Current SFWMD maximum allowable discharge requirements as well as water quality requirements were reviewed to ensure compliance with SFWMD permits. In addition, the SFWMD requirements were also factored into the recommendations in order to ensure a Level of Service “C” is achieved by SBDD. Table I-2 describes the proposed Level of Service descriptions for water management features and Table I-3 lists the corresponding stages and design elevations for SBDD’s adopted Level of Service.

Overall SBDD Facilities Maps and Tables

As part the 2021 Facilities Report Update, SBDD updated the Existing Facilities Map for each individual drainage basin and corresponding Culvert Schedule Table. SBDD also updated the maps which depict the locations of existing flood gates, control structures, staff gauges, water level recorders, fish guards, and SBDD bench marks; both overall and individual basin maps where applicable. Figures I-6, I-7, I-8, I-9, I-10, and I-11 show the overall District facilities for flood gates, control structures, staff gauges, water level recorders, fish guards, and SBDD bench marks, respectively, with corresponding Schedule Tables I-4, I-5, I-6, I-7, I-8, and I-9. As stated above, these maps and exhibits included in this 2021 update were updated and printed in 2019.

ENGINEERING ANALYSIS

The model utilized to conduct the hydraulic analysis for developing the SBDD Facilities Report is Advanced Interconnected Pond Routing (AdICPR) by Streamline Technologies. AdICPR uses a link-node concept to idealize real world systems. As part of the modeling requirements, the drainage system is broken down into a network of links and nodes, which the AdICPR program translates into a mathematical network from which numerical calculations can take place.

Two different storm events, the 10-year, 3-day and 100-year, 3-day, were analyzed with AdICPR to evaluate the District’s adopted LOS. An analysis was conducted for the future developed basin conditions (built-out) with the proposed basin conveyance system (Future/Proposed). The Future/Proposed developed condition simulation was used to analyze the Level of Service being provided. The AdICPR link data was based on a clean and operable conveyance system.

RECOMMENDATIONS

The Facilities Report includes recommendations based on existing basin characteristics, modeling results and/or updated governmental regulations. The recommendations that are listed are intended to address the following criteria:

- Address facilities or sub-basins that fail to meet the District's adopted LOS.
- Address facilities or sub-basins that do not provide adequate conveyance or flood protection for future conditions.
- Address basin improvements that will reduce flood stages and/or flood durations.
- Address basin improvements that will provide the District with a higher level of operational control, especially during major rainfall events (i.e.: adjustable flood gates, automated flood gates, basin interconnects).
- Address basin improvements that will improve water quality.
- Address basin improvements that will restore ecological shortcomings and/or enhance the environment.

Specific basin recommendations are summarized and included in the detailed description and discussion of each basin and are projected to be completed within the next seven (7) years.

FIGURES AND TABLES EXPLANATION

Results of the AdICPR modeling are presented and discussed for each individual basin. A series of figures and tables represent the findings and are provided as part of each basin discussion. The following briefly explains these figures and tables:

Summary of Basin Characteristics (Table)

Information used to model the basin is summarized in this table; total area, pervious area, impervious area and lake areas are given for future land use.

The control water elevation, minimum road crown elevation and minimum finished floor elevation are taken from existing SFWMD basin permits and are based on the SBDD adopted Level of Service.

This table also gives a minimum percentage of lake area required to meet SBDD Level of Service for all new developments.

Existing Facilities Map (Figure)

This figure shows the basin boundary and main roadways within each basin. It also shows existing primary and secondary stormwater facilities such as lakes, canals, culverts, control structures and pump stations.

Existing Culvert Schedule (Table)

The schedule refers to the culvert ID numbers shown on the facility map and includes existing pipe information (location, shape, size, material, length and description).

Proposed Facilities Map (Figure)

This figure shows the proposed basin improvements for each basin, as applicable.

Control Water Elevation Map (Figure)

This figure shows the different Control Water Elevations (CWE) within individual basins, as applicable.

Flood Gates Map (Figure)

This figure shows the existing flood gates located within each individual basin.

Flood Gates Schedule (Table)

This schedule lists the location and description of each flood gate.

Control Structures Map (Figure)

This figure shows the existing control structures located within each individual basin.

Control Structure Schedule (Table)

This schedule lists the location and description of each control structure.

Staff Gauge Map (Figure)

This figure shows the existing staff gauges located within each individual basin.

Staff Gauge Schedule (Table)

This schedule lists the location and description of each staff gauge.

Fish Guards Map (Figure)

This figure shows the existing fish guards located within each individual basin.

Fish Guards Schedule (Table)

This schedule lists the location and description of each fish guard.

Nodal Diagram (Figure)

This figure provides a depiction of nodal diagram used in the AdICPR model for each individual basin.

Basin Maximum Stage Report (Table)

This report provides the output data from the AdICPR model for the calculated, maximum stages at all nodes within the basin. The output data includes the maximum stages and maximum time stages for the 10-year, 3-day; 25-year, 3-day; and the 100-year, 3-day storm events.

72-Hour Nodal Stage Report (Table)

This report shows the output data from the AdICPR model for calculated stages at the 72-hour time period at all nodes within the basin. The output data includes the 72-hour stages for the 10-year, 3-day; 25-year, 3-day; and the 100-year, 3-day storm events. The data from this report can be extracted to determine the canal profiles for the District's primary canals at the 72-hour time period for the above-noted design storms.

SBDD Stormwater Management Regulations, Standards, Procedures and Design Criteria Manual (Appendix 1)

Appendix 1 includes a copy of the District's Stormwater Management Regulations, Standards, Procedures and Design Criteria Manual.

SFWMD Permits (Appendix 2)

Appendix 2 includes copies of the SFWMD Basin Permits for each individual drainage basin.

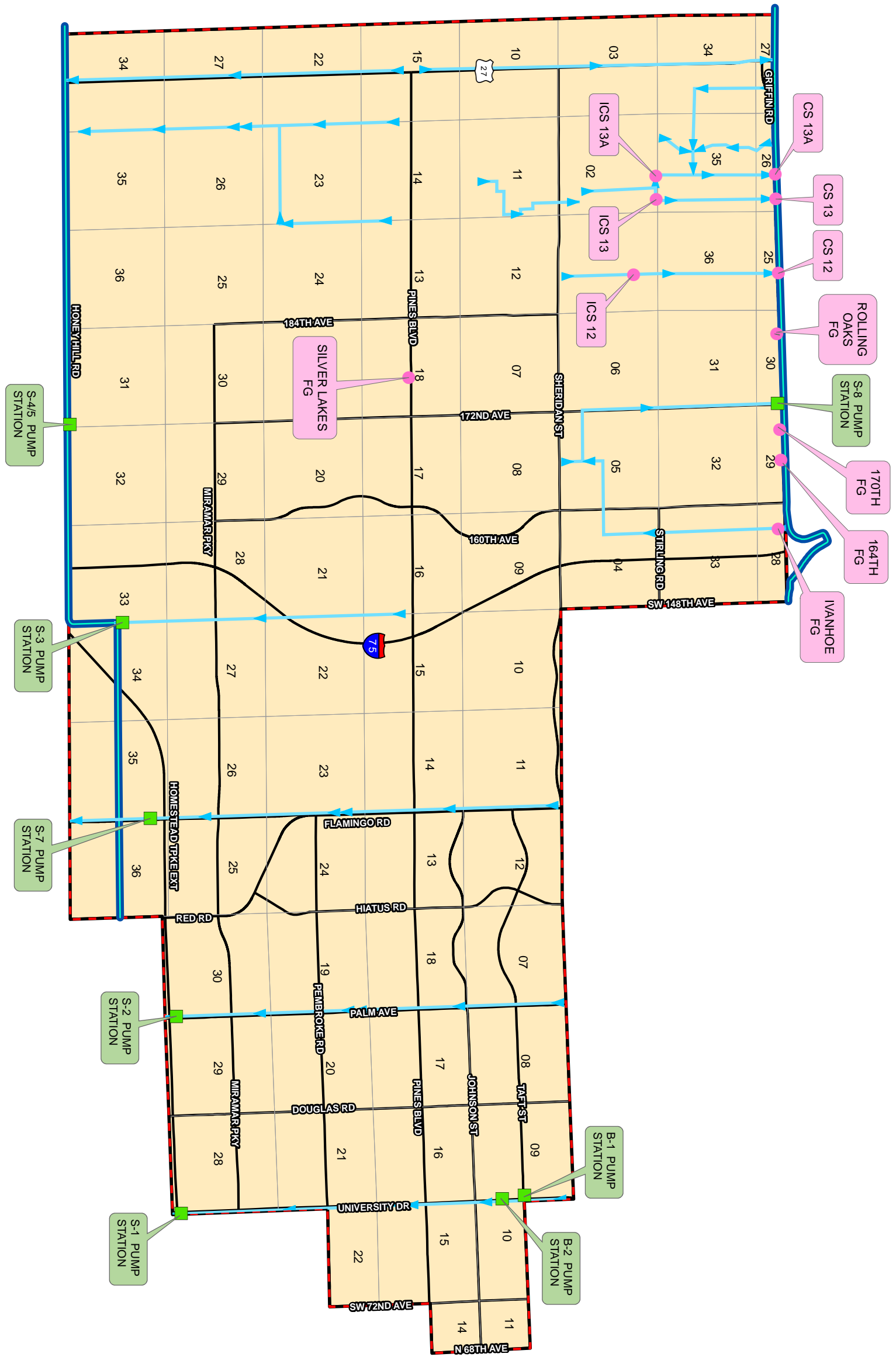
AdICPR Input Data (Appendix 3)

Appendix 3 includes the AdICPR input data for each individual drainage basin.

IMPORTANT NOTE:

While the information contained within this Facilities Report should be substantially correct, the District does not warrant or guarantee that any of the information stated in this report or depicted on the facilities maps is final and absolute. The information contained in the existing facilities maps is based on current information including, field observations, field measurements, and as-built drawings. Anyone interested in determining the actual facilities located within any part of the District should perform their own survey and make an independent determination as to the actual facilities including, but not limited to, culverts, culvert sizes, culvert materials, invert elevations, existing topography, lakes, lake locations, mitigation areas, canal locations and the nomenclature used to identify or describe any of these facilities.

Notwithstanding the contents of the Facilities Report, the District does not and cannot guarantee that there will not be damage or flooding to property or injuries to persons within the District as a result of unforeseen events which are beyond the control of the District, including but not limited to, excessive rainfall, Acts of God, landslides, floods, washouts, tidal wave, storm surge, wind storm, hurricane, sea level rise, climate change, or other casualty, disaster or catastrophe; unforeseeable failure or breakdown of pumping facilities; any and all governmental rules, acts or orders, restrictions, regulations, requirements, acts or actions of any governmental authority, commission, board, agency, agent, official or officer, the enactment of any statute, ordinance, resolution, regulation, rule, ruling, order, decree, judgment, restraining order or injunction of any court, or by any other causes, whether or not of the same kind as enumerated herein, not within the sole control of the District and which by exercise of due diligence the District is unable to overcome. This disclaimer shall include other causes beyond the control of the District, whether or not specifically enumerated herein.



SOUTH BROWARD DRAINAGE DISTRICT DISTRICT BOUNDARY MAP

2019 UPDATE

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0 3,000 6,000 12,000 18,000

Feet

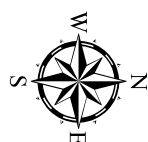
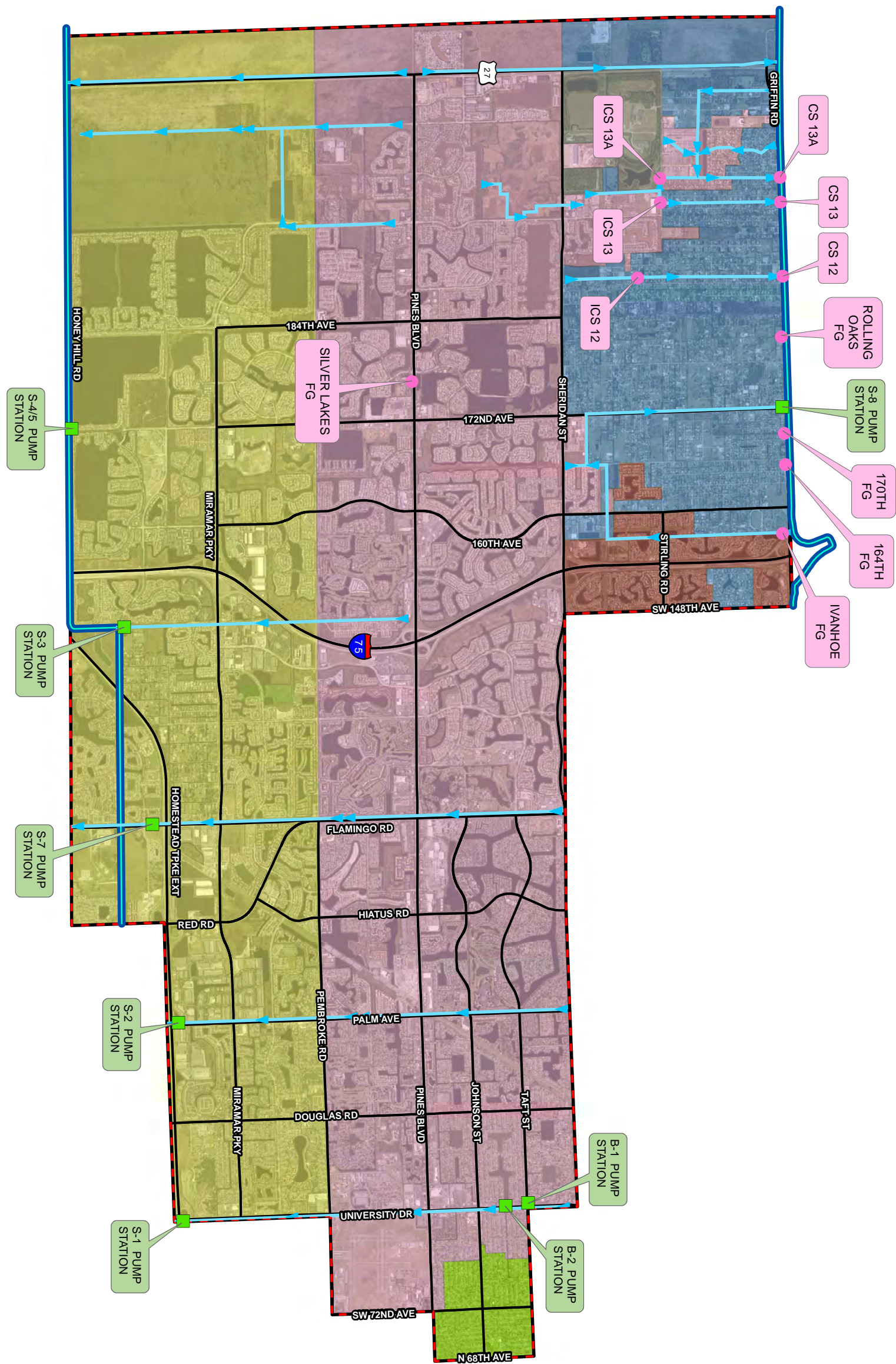


FIGURE I-1

Legend

- Major Control Structures
- Pump Station
- SBDD Canals
- SFWMD Canal
- Sections
- SBDD Boundary



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SOUTH BROWARD DRAINAGE DISTRICT MUNICIPAL BOUNDARY MAP

2019 UPDATE

Legend	
● Major Control Structures	 BROWARD COUNTY
 Pump Station	 DAVIE
⇨⇨⇨ SBDD Canals	 HOLLYWOOD
 SFWMD Canal	 MIRAMAR
 SBDD Boundary	 PEMBROKE PINES
	 SOUTHWEST RANCHES

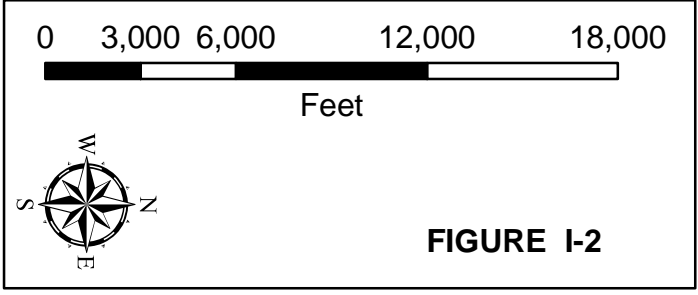
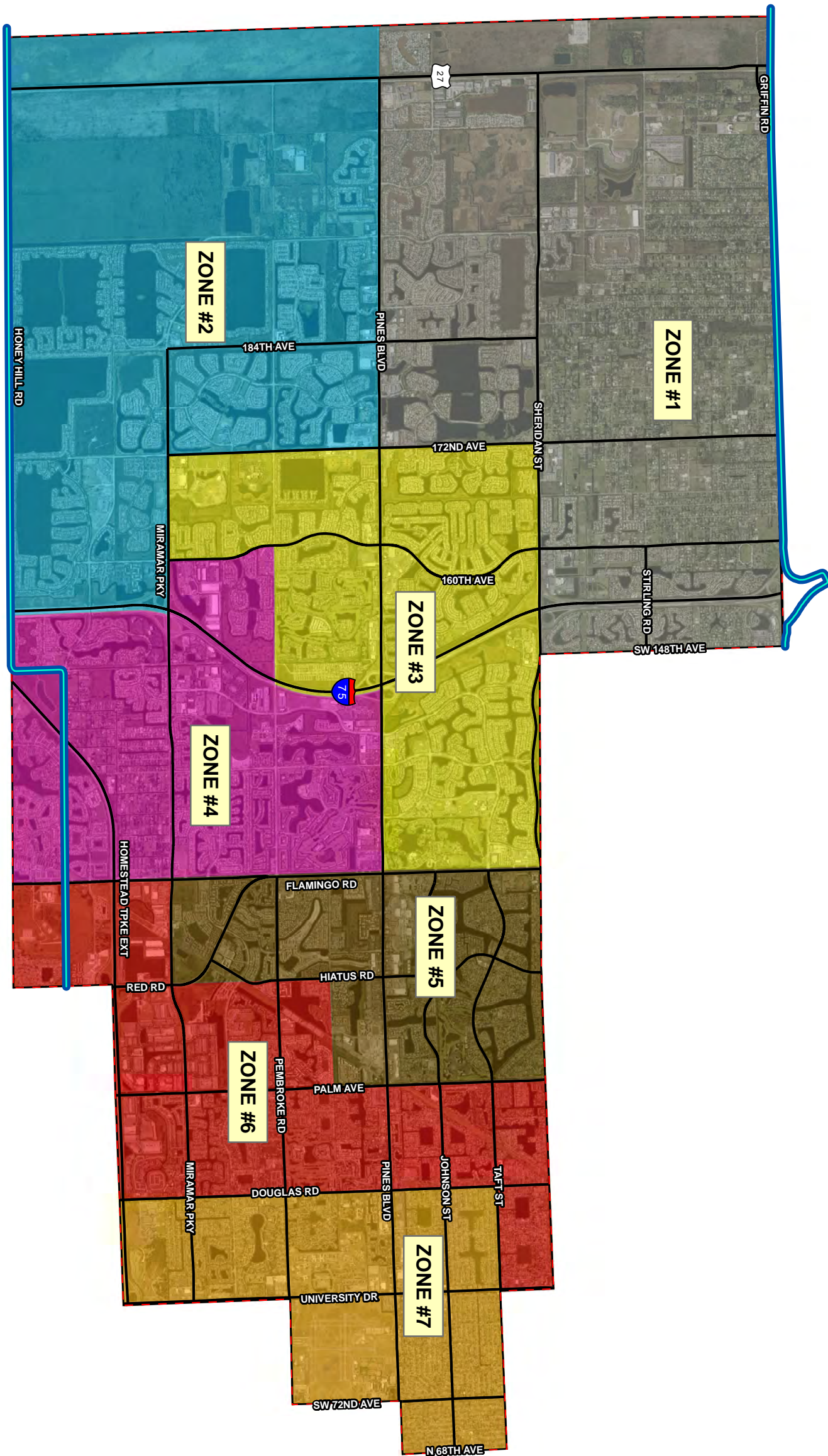


FIGURE I-2



SOUTH BROWARD DRAINAGE DISTRICT COMMISSION ZONE MAP

Legend

- SFWMD Canal
- SBDD Boundary

COMMISSION ZONE

- | | |
|--------|--------|
| ZONE 1 | ZONE 4 |
| ZONE 2 | ZONE 5 |
| ZONE 3 | ZONE 6 |
| | ZONE 7 |



0 3,000 6,000 12,000 18,000



Feet

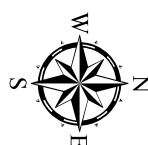
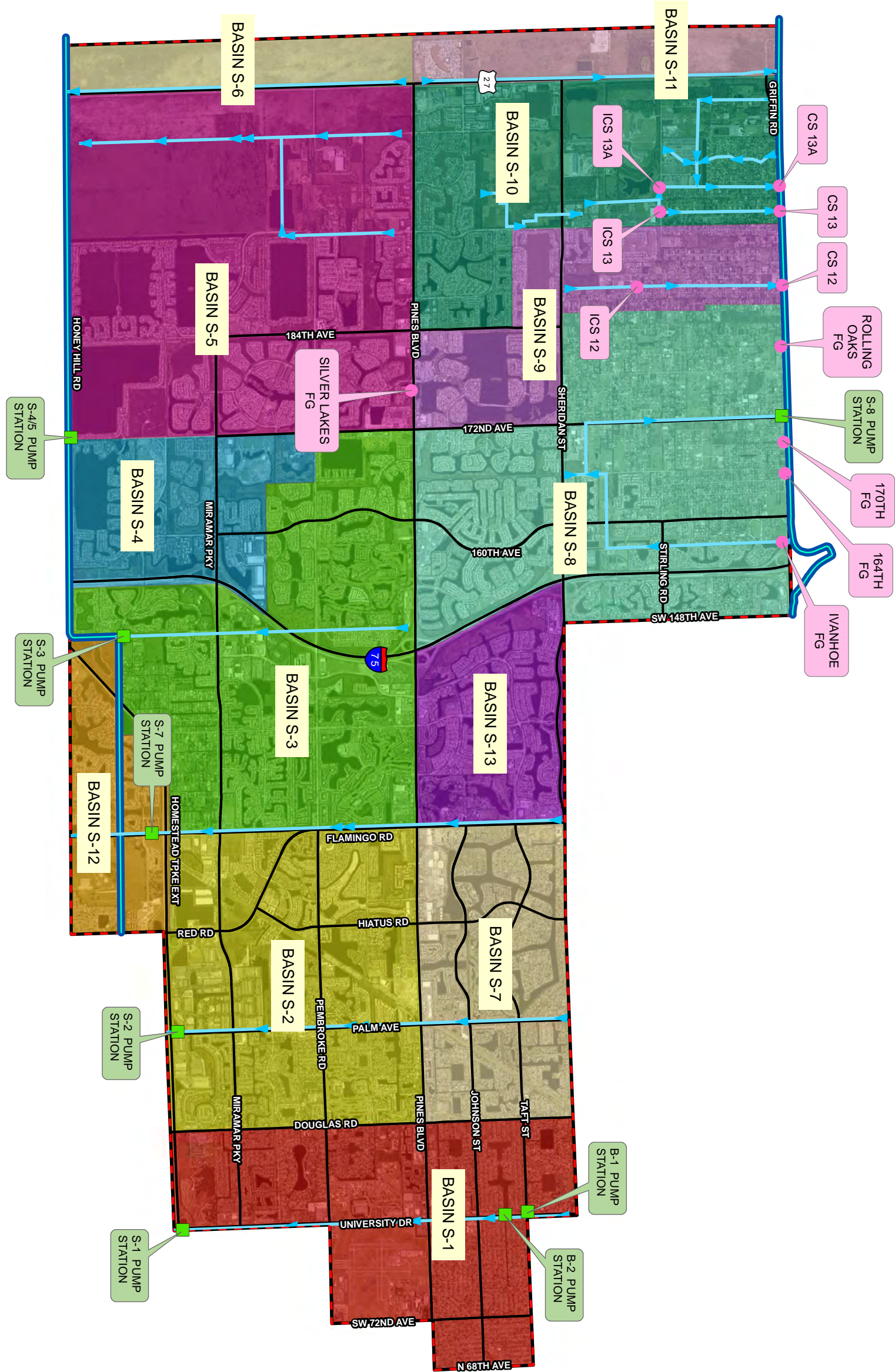


FIGURE I-3



SOUTH BROWARD DRAINAGE DISTRICT DRAINAGE BASIN MAP

Legend		
●	Control Structures	 BASIN S-1
	Pump Station	 BASIN S-2
→	SBDD Canals	 BASIN S-3
	SFWMD Canal	 BASIN S-4
	SBDD Boundary	 BASIN S-5
		 BASIN S-6
		 BASIN S-7
		 BASIN S-8
		 BASIN S-9
		 BASIN S-10
		 BASIN S-11
		 BASIN S-12
		 BASIN S-13

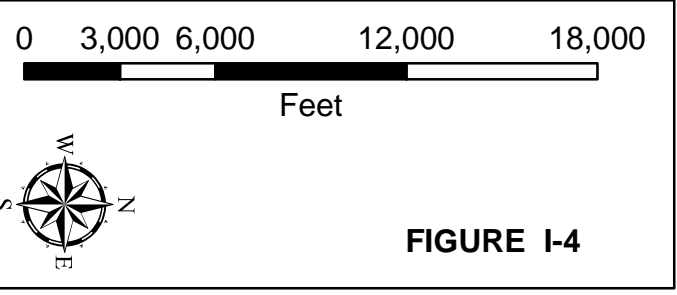


FIGURE I-4

TABLE I-1

GENERAL ASSUMPTIONS
NODAL NETWORK ASSUMPTIONS

LAND USE	%	CN	Elevation	% Area	TIME OF CONCENTRATION	
					Acres	Minutes
Residential 1 DU/AC	20	51	AG	25		
			ROAD	50		
			FF	80		
2 DU/AC	25	54	AG	20	< 10	15
			ROAD	45		
			FF	75		
3 DU/AC	30	57	AG	15	10 TO 20	25
			ROAD	40	21 TO 30	35
			FF	70	31 TO 40	45
4 DU/AC	38	61	AG	10	>40	60
			ROAD	25		
			FF	70		
8 DU/AC OR GREATER	65	77	AG	10		
			ROAD	20		
			FF	60		
COMMERCIAL	85	89	AG	5	<10	15
			ROAD	20		
			FF	60		
INDUSTRIAL	72	81	AG	10	11 TO 20	25
			ROAD	20	21 TO 30	35
			FF	60	31 TO 40	45
ROADWAYS		83	AG	10		
			ROAD	50		
			FF	100		
AGRICULTURE		68	AG	10	<10	30
EASEMENTS		49	ROAD	50	11 TO 20	45
OPEN		39	FF	80	21 TO 30	60
LAKE		98	0	75	31 TO 40	75
			CWE	100	>0	5

RAINFALL DATA

BASIN NO.	10-Year	25-Year	100-Year
	3-Day	3-Day	3-Day
1	10.70	14.00	16.50
2, 7 & 13	10.50	13.50	16.30
3	10.40	13.00	16.10
4	10.20	12.50	15.50
5	10.00	12.00	15.00
8	10.20	12.00	15.50
9 & 10	9.80	11.00	14.50

NOTE: Basins 6, 11 & 12 were not analyzed in this report.

LEGEND:

AC = Acre
 AG = Average Grade

CWE = Control Water Elevation
 CN = Curve Number

DU = Dwelling Unit
 FF = Finished Floor
 ROAD = Minimum Road Crown

TABLE I-2

PROPOSED LEVEL OF SERVICE
LEVEL OF SERVICE

Reference	A	B	C	D	E
1. Building Floor Elevation					
A. Emergency Shelters/Service	>100 Year Storm Retained	>100 Year Storm Retained	>100 Year Storm w/Allowable Discharge	>100 Year Storm w/Allowable Discharge	>100 Year Storm Retained
B. Habitable	>100 Year Storm Retained	>100 Year Storm Retained	>100 Year Storm w/Allowable Discharge	>100 Year Storm w/Allowable Discharge	>100 Year Storm Retained
C. Employment/Service	>100 Year Storm Retained	>100 Year Storm Retained	>100 Year Storm w/Allowable Discharge	>100 Year Storm w/Allowable Discharge	>100 Year Storm Retained
2. Roads (Edge of Pavement)					
A. Evacuation Routes	>100 Year Storm Retained	>100 Year Storm Retained	>100 Year Storm Retained	>100 Year Storm Retained	>100 Year Storm Retained
B. Emergency Service	>100 Year Storm Retained	>100 Year Storm Retained	>100 Year Storm Retained	>100 Year Storm Retained	>100 Year Storm Retained
C. Arterials	>100 Year Storm Retained	>100 Year Storm w/Allowable Discharge	>10 Year Storm w/Allowable Discharge	>5 Yr/1 Day Storm w/Allowable Discharge	>5 Yr/1 Day Storm w/Allowable Discharge
D. Collectors	>100 Year Storm Retained	>25 Year Storm w/Allowable Discharge	>10 Year Storm w/Allowable Discharge	>5 Yr/1 Day Storm w/Allowable Discharge	>5 Yr/1 Day Storm w/Allowable Discharge
E. Neighborhood	>100 Year Storm Retained	>25 Year Storm w/Allowable Discharge	>10 Year Storm w/Allowable Discharge	>5 Yr/1 Day Storm w/Allowable Discharge	>5 Yr/1 Day Storm w/Allowable Discharge
3. Sites (Assumes 80% of Property is dry at all times)					
A. Urban (> 1 DU/ AC)	>100 Year Storm Retained W.Q. > 100%	>25 Year Storm w/Allowable Discharge W.Q. > 100%	>5 Year Storm w/Allowable Discharge W.Q. > 100%	>3 Year Storm w/Allowable Discharge W.Q. > 100%	>3 Year Storm Retained W.Q. > 50%
B. Rural (< or = 1 DU/ AC)	>100 Year Storm Retained W.Q. > 100%	>25 Year Storm w/Allowable Discharge W.Q. > 100%	>3 Year Storm w/Allowable Discharge W.Q. > 100%	>3 Year Storm Retained W.Q. > 50%	>3 Year Storm Retained W.Q. > 50%

Notes:

1. Rainfall frequencies are 3 Day for 100, 25 and 10 Year Storms, and 1 Day for lesser events unless otherwise noted.
2. Flood Durations are unspecified.
3. Employment and Service Buildings are utilized by 5 or more persons per day.
4. SBDD Requires Level of Service "C".

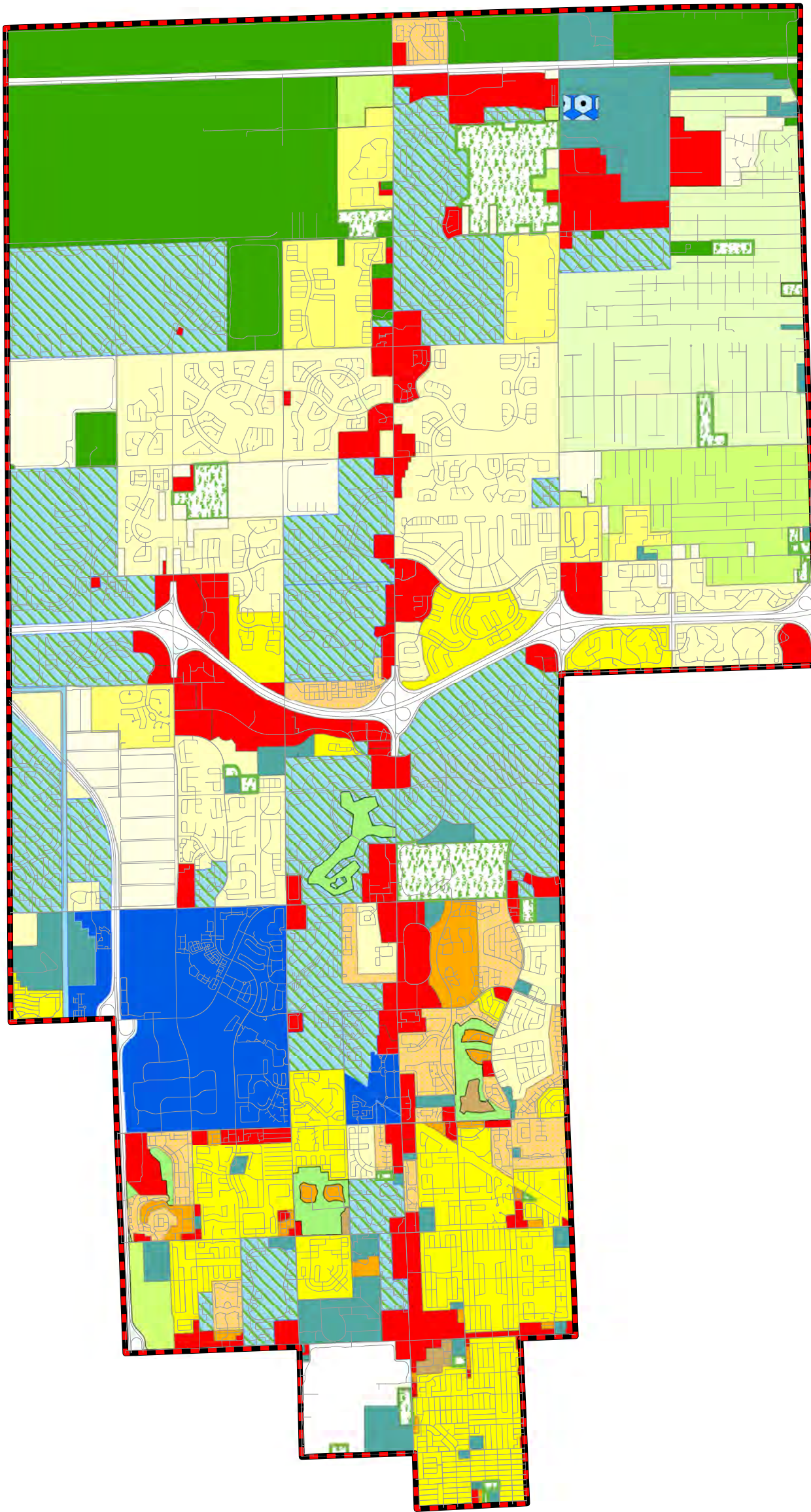
TABLE I-3

DESIGN ELEVATIONS

SBDD Basin Number	Basin Control Elevation	Minimum Road Crown 10-Year 3-Day	Minimum Finished Floor 100-Year 3-Day
BASIN S-1	2.50	6.50	8.00
BASIN S-2	2.70	6.00	7.50
BASIN S-3	3.00	6.50	8.00
Lido Isles (Figure II-C-3)	3.50	6.50	8.00
BASIN S-4	3.50	6.00	7.50
BASIN S-5			
Sub-Basin 1 (Figure II-E-2)	4.00	6.00	7.50
Sub-Basin 2 (Figure II-E-2)	4.25	6.50	8.00
Sub-Basin 3 (Figure II-E-2)	4.50	6.50	8.00
BASIN S-6		SEE NOTE 3	
BASIN S-7	2.70	6.00	7.50
BASIN S-8	3.50	6.00	7.50
Ivanhoe (Figure II-G-3)	4.00	6.50	8.00
BASIN S-9	4.00	6.50	8.00
BASIN S-10	4.00	6.50	8.00
BASIN S-11		SEE NOTE 3	
BASIN S-12	3.00	7.00	8.00
BASIN S-13	3.00	6.00	7.50

NOTES :

1. All Elevations are in feet NGVD.
2. All information taken from existing South Florida Water Management District Basin Permits.
3. Basin S-6 and Basin S-11 have been acquired by the SFWMD and are set aside as natural preserves.
No analysis was done on these basins.



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SOUTH BROWARD DRAINAGE DISTRICT BROWARD COUNTY LAND USE PLAN (2018)

2019 UPDATE

Legend		
Streets	Medium-High (25) Residential	Local Activity Center
SBDD Boundary	Agricultural	Office Park
Rural Ranches	Commercial	Recreation & Open Space
Rural Estates	Commercial Recreation	Regional Activity Center
Estate (1) Residential	Community Facilities	Transportation
Low (2) Residential	Residential in Irregular Areas	Utilities
Low (3) Residential	Electrical Generation Facilities	Right-of-Way
Low (5) Residential	Employment Center - Low	Water
Low-Medium (10) Residential	Employment Center - High	Mitigation Areas
Medium (16) Residential	Industrial	

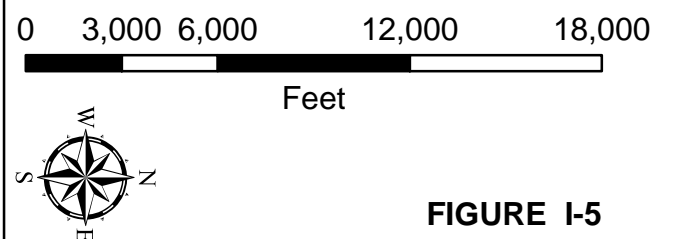
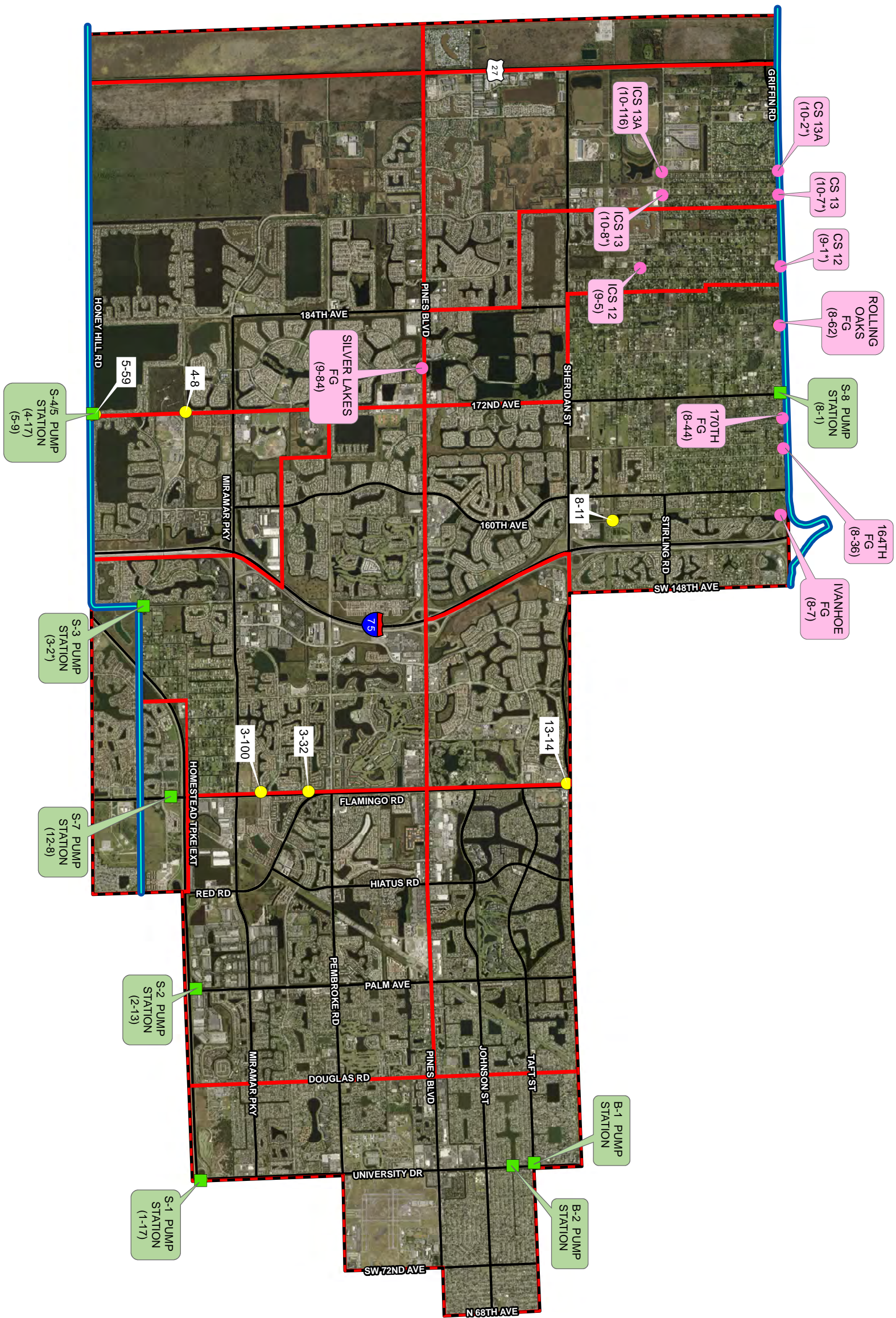


FIGURE I-5



SOUTH BROWARD DRAINAGE DISTRICT OVERALL MAP WITH FLOOD GATES

- Legend**
- Pump Station
 - Major Control Structures
 - Flood Gate
 - SFWMD Canal
 - SBDD Boundary
 - SBDD Basins

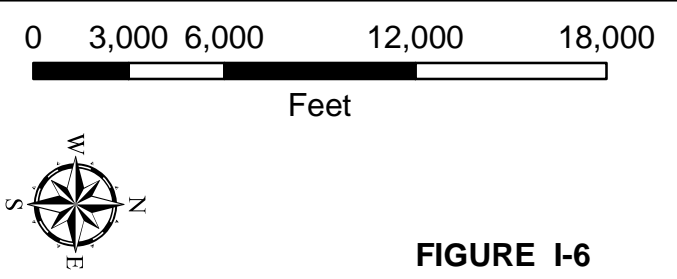
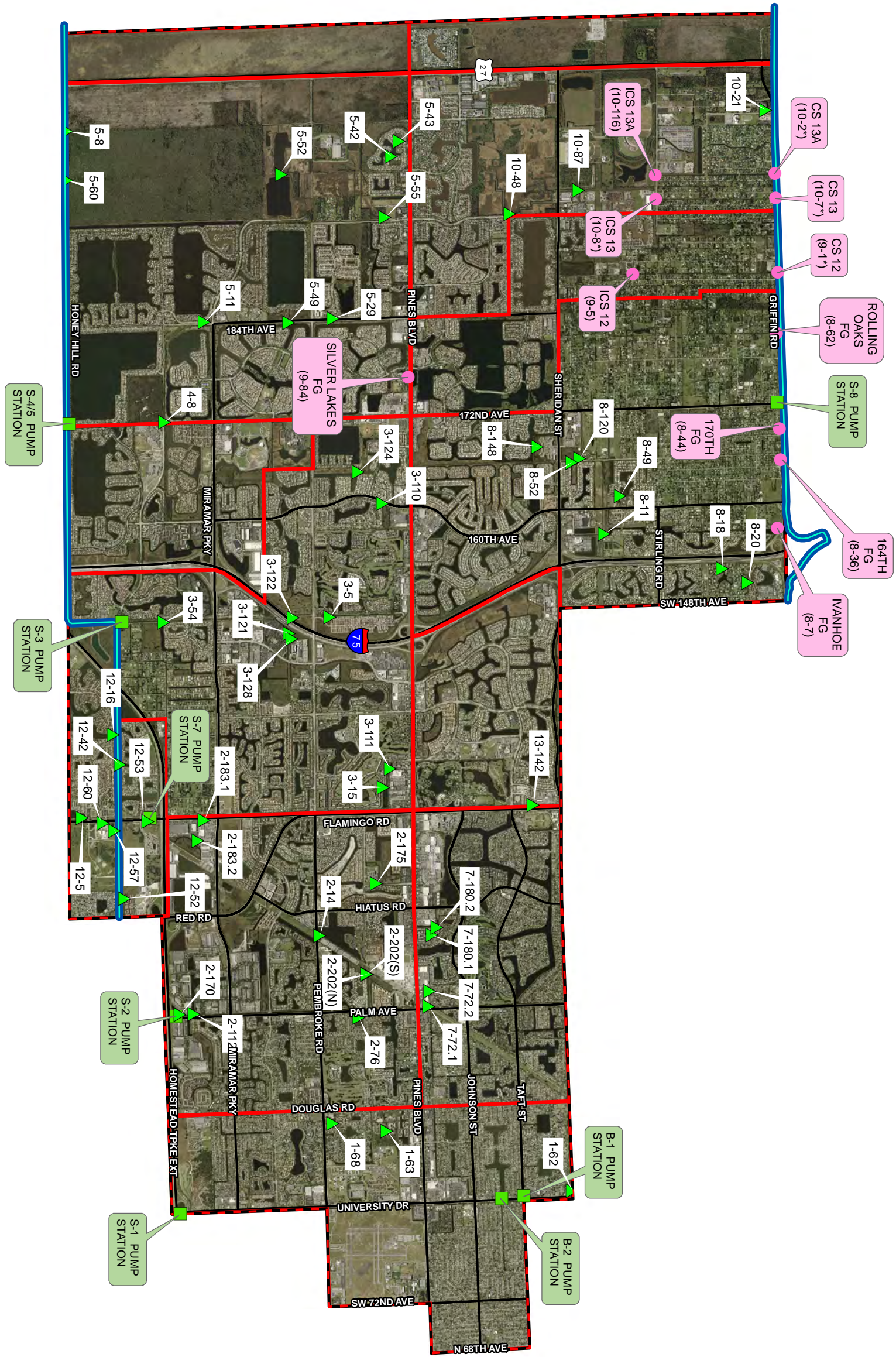


FIGURE I-6

TABLE I-4

SBDD OVERALL FLOOD GATE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
1-17.5	S-1 Pump Station	3900 Utopia Dr.	48" W X 54" H
2-13.4	S-2 Pump Station	4000 SW 101st Ave.	48" W X 60" H
3-2.4	SBDD S-3 Pump Station	14801 Bass Creek Rd.	48" W X 48" H
3-2.5	SBDD S-3 Pump Station	14801 Bas Creek Rd.	48" W X 48" H
3-32	Trilogy	Flamingo Rd. Canal & (S) of Pembroke Rd.	42" W X 42" H
3-100	Monarch Lakes	Flamingo Rd. Canal & Monarch Lakes Blvd.	54" W X 54" H
4-8	Silver Lakes / Nautica	SW 172nd Ave. & Bass Creek Rd.	60" W X 60" H
4-17.3	SBDD S-4 Pump Station	5500 SW 172nd Ave.	54" W X 54" H
5-9.4	SBDD S-5 Pump Station	5500 SW 172nd Ave.	54" W X 54" H
5-59	SBDD S-4 & S-5 Pump Station	5500 SW 172nd Ave.	60" W X 36" H
8-1.4	S-8 Pump Station	17221 SW 46th St.	78" W X 54" H
8-7	Ivanhoe	Sessa's - Hawke's Bluff Ave.	78" W X 78" H
8-11	Ivanhoe - South Outfall	Hawke's Bluff Ave. & Sledgemill Rd.	120" W X 24" H
8-36	Green Meadows	Griffin Rd. & SW 164th Ter.	36" W X 36" H
8-44	Deems Ranches	Griffin Rd. & SW 170th Ave.	48" W X 48" H
8-62	Rolling Oaks	Griffin Rd. & SW 181st Ave.	60" W X 60" H
9-1.1	SBDD Control Structure 12	Griffin Rd. & 196th Ln.	72" W X 72" H
9-1.2	SBDD Control Structure 12	Griffin Rd. & 196th Ln.	72" W X 72" H
9-5	SBDD ICS-12	18850 SW 63rd St.	60" W X 60" H
9-84	Silver Lakes	Pines Blvd. & (E) of SW 178th Ave.	78" X 78" CIRC.
10-2.1	SBDD Control Structure 13-A	4701 SW 199th Ave.	72" W X 72" H
10-2.2	SBDD Control Structure 13-A	4701 SW 199th Ave.	72" W X 72" H
10-7.1	SBDD Control Structure 13	Griffin Rd. & 198th Ter.	72" W X 72" H
10-7.2	SBDD Control Structure 13	Griffin Rd. & 198th Ter.	72" W X 72" H
10-8.1	SBDD ICS-13	19800 SW 60th St.	66" W X 66" H
10-8.2	SBDD ICS-13	19800 SW 60th St.	66" W X 66" H
10-116	SBDD ICS-13A	19950 SW 60th St.	84" W X 84" H
12-8	S-7 Pump Station	4301 SW 124th Ave.	42" W X 64" H
13-14	Flamingo Falls Shopping Center	Sheridan St. & Flamingo Rd.	SFWMD G-87



SOUTH BROWARD DRAINAGE DISTRICT OVERALL MAP WITH CONTROL STRUCTURES

- Legend**
- ▲ Control Structures
 - Major Control Structures
 - Pump Station
 - SFWMD Canal
 - SBDD Boundary
 - SBDD Basins

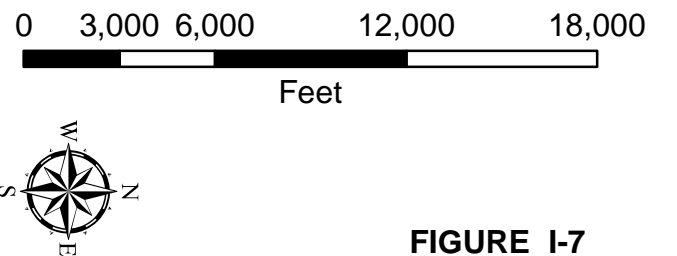


FIGURE I-7

TABLE I-5

SBDD OVERALL CONTROL STRUCTURE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>General Comments</i>
1-62	Pasadena Lakes	Polishing Ponds - Sheridan St. & University Dr.	Over-Flow Structure
1-63	DGN Towers	705 SW 88th Ave.	Over-Flow Structure
1-68	URI Commercial	1611 Douglas Rd.	Weir w/ Bleeder
2-14	COPP Charter School East	10801 Pembroke Rd.	Over-Flow Structure
2-76	Lakeside Key	1001 SW 100th Ter.	Over-Flow Structure
2-112	Miramar Park of Commerce	Palm Ave. & (N) of S-2 Pump Station	Ground Weir
2-170	Miramar Park of Commerce	Palm Ave. & (N) of S-2 Pump Station	Ground Weir
2-175	Palm Cove Elementary / Sarah Park	SW 114th Ave. & (N) of Washington St.	Concrete Weir w/ top @ 2.7 NGVD
2-183.1	Miramar Square - (W) Outfall	Flamingo Rd. & Miramar Pkwy.	
2-183.2	Miramar Square - (E) Outfall	Flamingo Rd. & Miramar Pkwy.	Over-Flow Structure w/ Bleeder @ 4.75 NGVD
2-202(N)	Pines City Center - Mitigation	(E) of NW 106th Ave. & Washington St.	Over-Flow Structure
2-202(S)	Pines City Center - Mitigation	(E) of NW 106th Ave. & Washington St.	Over-Flow Structure
3-5	Cobblestone - Mitigation (N)	Behind 1536 SW 147th Ter.	Over-Flow Structure
3-15	Flamingo Plaza / Century Village	(W) of Flamingo Rd. & (S) of Pines Blvd.	Flashboard Riser w/ 27" x 4.5" Bleeder @ 3.00 NGVD
3-54	Windsor Palms	Behind 4090 SW 147th Ave. @ C-4 Canal	
3-110	Pasadena at Pembroke Shores	15999 SW 3rd St.	Bubble-Up Structure
3-111	Wal-Mart	Pines Blvd. & Flamingo Rd.	Concrete Weir w/ 6" x 6" Triangle @ 3.00 NGVD
3-121	I-75 Commerce Center - Mitigation	(W) of SW 145th Ave. & (S) of Pembroke Rd.	Over-Flow Structure
3-122	Cobblestone - Mitigation (S)	Pembroke Rd & C-4 Canal	Over-Flow Structure
3-124	Lido Isles / Pembroke Shores	Behind 773 SW 167th Ave.	4' Wide Rip-rap Ground Weir
3-128	FBI Building	2030 SW 145th Ave.	Bubble-Up Structure
4-8	Silver Lakes	SW 172nd Ave. & Bass Creek Rd.	Over-Flow Structure @ 8.92 NGVD
5-8.1	SBDD Canal 8	South End of Canal 8 & SFWMD C-9	
5-8.2	SBDD Canal 8	South End of Canal 8 & SFWMD C-9	
5-11	Sunset Lakes	SW 184th Ave. & (S) of Miramar Pkwy.	Flashboard Riser
5-29	Encantada	SW 184th Ave & (N) of SW 14th St.	Weir w/ V-Notch Bleeder @ 4.25 NGVD
5-42	Walden Lake	Behind 192 SW 204th Ave.	Flashboard Riser
5-43	Walden Lake	Behind 20512 SW 1st St.	Flashboard Riser
5-49	Harbour Lake Estates / Silver Lakes	SW 184th Ave & SW 21st St.	Aluminum Weir w/ 21" x 26" Notch @ 4.42 NGVD
5-52	Capaletti / Zwerner Lakes - Land Weir	Capaletti / Zwerner Lakes - Land Weir	Ground Weir
5-55	COPP Soccer Park	350 SW 196th Ave.	Over-Flow Structure
5-60	SFWMD C-9 Impoundment Area	C-9 Canal & SW 202nd Ave.	Flashboard Riser

TABLE I-5

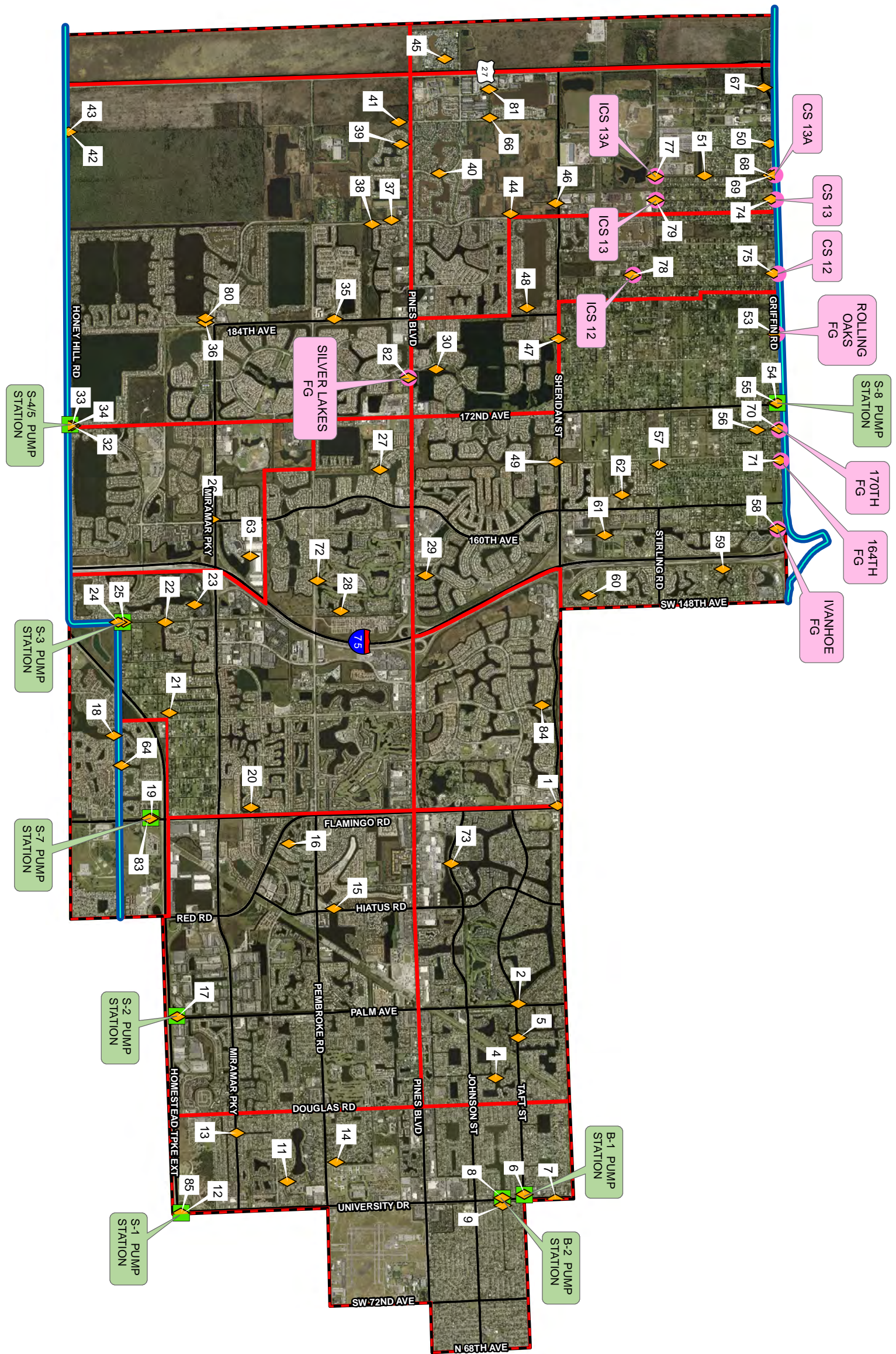
SBDD OVERALL CONTROL STRUCTURE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>General Comments</i>
6-2	US 27 Canal	US 27 & 1.5 Miles (S) of Pembroke Rd.	Ground Weir
7-72.1	K-mart Shopping Center - Outfall	Pines Blvd. & Palm Ave.	Weir w/ 3" Bleeder @ 2.7 NGVD
7-72.2	Southwest Focal Point Senior Center	301 NW 103rd Ave.	Weir @ 5.10 NGVD
7-180.1	Portofino Apartments	101 NW 108th Terrace - Bldg. # 150	Bubble-Up
7-180.2	Pembroke Lakes Square	11005 Pines Blvd.	
8-7	Ivanhoe	Sessa's - Hawke's Bluff Ave.	78" W X 78" H
8-11	Waverly Hundred at Ivanhoe	Hawkes Bluff Ave. & FPL Crossing	
8-18	Ivanhoe Estates	5310 Saxon Circle West	
8-20	Chelsea at Ivanhoe	Behind 15090 SW 51st Ct.	Bubble-Up Structure
8-36	Green Meadows	Griffin Rd. & SW 164th Ter.	36" W X 36" H
8-44	Deems Ranches	Griffin Rd. & SW 170th Ave.	48" W X 48" H
8-49	South Broward Drainage District Headquarters	6591 SW 160th Ave.	Over-Flow Structure (USF 4155-6210)
8-52	Stoneridge Lake Estates	Behind 16595 Mariposa Cir. N	Flashboard Riser
8-62	Rolling Oaks	Griffin Rd. & SW 181st Ave.	60" W X 60" H
8-120	Academic Village	Sheridan St. & Jaguar Way	Over-Flow Structure
8-148	Sheridan Village	NW 167th Ter & NW 21st St.	Rip-Rap Weir w/ 7" x 12" Bleeder @ 3.52 NGVD
9-1.1	SBDD Control Structure 12	Griffin Rd. & 196th Ln.	72" W X 72" H
9-1.2	SBDD Control Structure 12	Griffin Rd. & 196th Ln.	72" W X 72" H
9-5	SBDD ICS-12	18850 SW 63rd St.	60" W X 60" H
9-84	Silver Lakes	Pines Blvd. & (E) of SW 178th Ave.	78" X 78" CIRC.
10-2.1	SBDD Control Structure 13-A	4701 SW 199th Ave.	72" W X 72" H
10-2.2	SBDD Control Structure 13-A	4701 SW 199th Ave.	72" W X 72" H
10-7.1	SBDD Control Structure 13	Griffin Rd. & 198th Ter.	72" W X 72" H
10-7.2	SBDD Control Structure 13	Griffin Rd. & 198th Ter.	72" W X 72" H
10-8.1	SBDD ICS-13	19800 SW 60th St.	66" W X 66" H
10-8.2	SBDD ICS-13	19800 SW 60th St.	66" W X 66" H
10-21	Kingdom Hall of Jehova's Witness	20850 Griffin Rd.	
10-48	Wetlands Bank	1.25 Miles (S) of Sheridan St. & (W) of SW 196th Ave.	Concrete Weir w/ 6" Rect. Notch @ 4.00 NGVD
10-87	West Broward Industrial Park (S)	19703 Dun Raven Pass	Concrete Weir w/ 6" Bleeder @ 4.00 NGVD
10-116	SBDD ICS-13A	19950 SW 60th St.	84" W X 84" H
12-5	Somerset IV Apartments	(S) of Somerset Blvd & (W) of Flamingo Rd. Canal	Concrete Weir w/ 8" x 8" Triangle @ 3.00 NGVD
12-16	Vizcaya	Somerset Pkwy. & (W) of SW 134th Ave.	Aluminum Weir w/ 8" W x 42" H Notch @ 3.00 NGVD

TABLE I-5

SBDD OVERALL CONTROL STRUCTURE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>General Comments</i>
12-42	Silver Falls	Behind 12898 SW 47th St. @ C-9 Canal	Aluminum Weir w/ 36" x 6" Triangle @ 3.00 NGVD
12-52	Red Rd. Residences	(W) of Red Rd. & SW 45th Pl.	Concrete Weir w/ 3" Bleeder
12-53	Atlantic Commons	Flamingo Rd. & Silver Falls Blvd.	Concrete Weir w/ 6" Bleeder @ 2.88 NGVD
12-57	Snake Creak Readiness Center	(E) of Flamingo Rd. & SFWMD C-9 Canal	Overflow Structure w/ 10" Bleeder @ 3.00 NGVD
12-60	Snake Creak Readiness Center	(E) of Flamingo Rd. & (N) of Somerset Blvd.	Ground Weir
13-142	Pembroke Falls	Flamingo Rd. & (N) of Taft St.	Bubble-Up



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SOUTH BROWARD DRAINAGE DISTRICT OVERALL STAFF GAUGE MAP

2019 UPDATE

Legend

- ◆ Staff Gauge
- ◆ Major Control Structures
- Pump Station
- SFWMD Canal
- SBDD Boundary
- SBDD Basins



0 3,000 6,000 12,000 18,000

Feet

FIGURE I-8

TABLE I-6

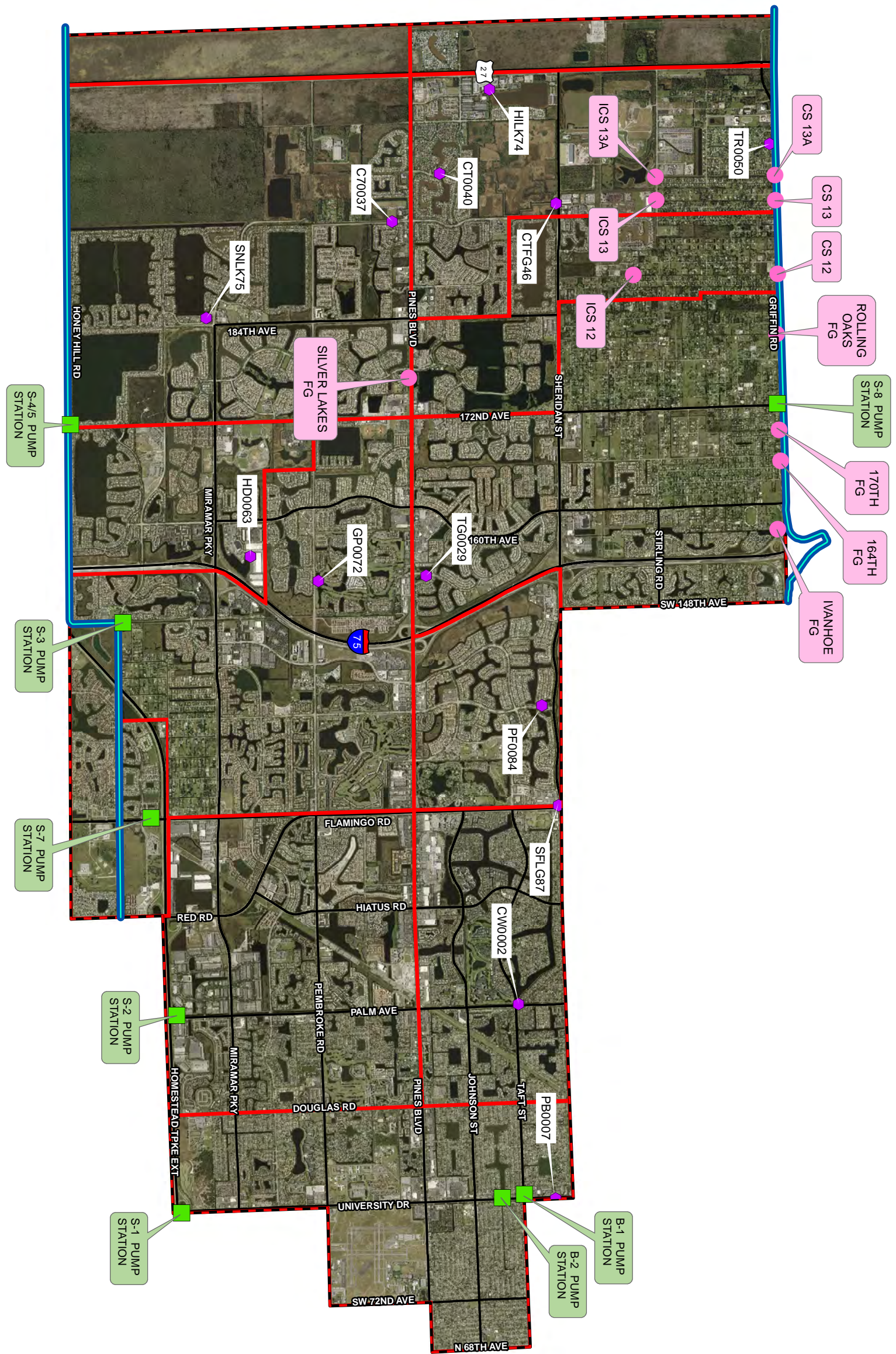
SBDD OVERALL STAFF GAUGE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
1	SFWMD G-87 Structure	Sheridan St. & Flamingo Rd.- (SW) Corner	Water Level Recorder
2	Cedarwoods	Palm Ave. Canal & (N) of Taft St.	Water Level Recorder
4	Westview	1245 NW 92nd Ave.	
5	Bayberry	Taft St. & NW 97th Ave.	
6	B-1 Pump Station	8081 Taft St.	
7	Pasadena Lakes / University Dr. Canal	University Dr. & Pasadena Blvd.	Water Level Recorder
8	B-2 Pump Station	1340 N. University Dr.	
9	Old B-3 Pump Station	1300 NW 79th Way	Telemetry
11	University Park Canal	Sherman Cir. & Bernard Blvd.	
12	S-1 Pump Station Upstream	3900 Utopia Dr.	Telemetry
13	Knolls # 3	Miramar Pkwy. & Canal Rd.	
14	Honeywoods	8672 SW 15th St.	
15	Raintree Golf Course Outfall	Hiatus Rd. & SW 14th St.	
16	Enclave at Miramar Lakes	Pembroke Rd. 1 Block (E) of Entrance	
17	S-2 Pump Station	4000 SW 101st Ave.	Telemetry
18	Vizcaya	By Weir at C-9 Canal	
19	S-7 Pump Station Upstream	4301 SW 124th Ave.	Telemetry
20	Monarch Lakes	Monarch Lakes Blvd. & (W) of Flamingo Rd. - 1st Lake (S)	
21	Country Club Ranches	SW 137th Ave. & Blue Gill Rd.	
22	Windsor Palms Outfall	SW 148th Ave. & (N) of Bass Creek Rd. by Weir	
23	Huntington	3640 SW 149th Ter.	
24	S-3 Pump Station Downstream	(S) of 14801 Bass Creek Rd.	Telemetry
25	S-3 Pump Station Upstream	(N) of 14801 Bass Creek Rd.	Telemetry
26	Nautica	(SW) corner of Miramar Pkwy. & Dykes Rd.	
27	Pembroke Shores	SW 165th Ave. & SW 5th St.	
28	Grand Palms Outfall	C-4 Canal & Sable Palm Dr.	
29	Towngate	NW 155th Ave. & (N) of Pines Blvd.	Water Level Recorder
30	Silver Lakes Park	NW 178th Ave. & NW 10th St.	
32	S-4 Pump Station Upstream	5500 SW 172nd Ave.	Telemetry
33	S-5 Pump Station Upstream	5500 SW 172nd Ave.	Telemetry
34	S-4 / S-5 Pump Station Downstream	(S) of 5500 SW 172nd Ave.	Telemetry
35	Encantada	SW 184th Ave. & (N) of SW 14th St. by Weir	
36	Sunset Lakes	SW 184th Ave. & (S) of Miramar Pkwy. by Weir	
37	SBDD Canal 7	SW 196th Ave. & (S) of Pines Blvd.	Water Level Recorder
38	Estancia	SW 196th Ave. & (S) of Pines Blvd. by Weir	
39	Walden Lake	SW 204th Ave. & SW 2nd St.	
40	Chapel Trails	NW 202nd Ave. & (N) of NW 4th St.	Water Level Recorder
41	SBDD Canal 8	SW 208th Ave. & (S) of Pines Blvd.	
42	SFWMD C-9 Impoundment Area	SBDD Canal 8 (N) of Weir	
43	SFWMD C-9 Impoundment Area	SBDD Canal 8 (S) of Weir	
44	Florida Wetland's Bank	1.25 miles (S) of Sheridan St. by Weir	
45	Holly Lake Trailer Park	21720 N. Heritage Cir. (Boat Ramp)	
46	Chapel Trail Outfall	(W) of SW 196th Ave. & Sheridan St.	Water Level Recorder
47	Rolling Oaks	Sheridan St. and C-2 Canal	
48	Keystone Lakes	(W) of SW 184th Ave. at Entrance	

TABLE I-6

SBDD OVERALL STAFF GAUGE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
49	Spring Valley Outfall	SW 166th Ave. & Sheridan St.	
50	Trails of El Rancho Acres	Griffin Rd. & SW 205th Ave.	Water Level Recorder
51	Durango Estates	SW 199th Ave. & SW 54th Pl.	
53	Rolling Oaks Flood Gate	SW 181st Ave. & Griffin Rd.	Telemetry
54	S-8 Pump Station Upstream	(N) side of 17221 SW 46th St.	Telemetry
55	S-8 Pump Station Downstream	(S) side of 17221 SW 46th St.	Telemetry
56	Deems Ranches	SW 170th Ave. & SW 49th St.	
57	Green Meadows	SW 164th Ave. & Stirling Rd.	
58	Ivanhoe Flood Gate (N)	Hawke's Bluff Ave. & Griffin Rd.	Telemetry
59	Ivanhoe Estates	5241 Saxon Circle (W)	
60	Crossbow at Ivanhoe	Falconsgate Ave. & Archevale St.	
61	Ivanhoe Flood Gate (S)	Hawke's Bluff Ave. & Sledgemill Rd.	
62	SBDD Headquarters	6591 SW 160th Ave.	
63	Home Depot at the Fountains	Miramar Pkwy. & Dykes Rd.	Water Level Recorder
64	Silver Falls Outfall	Behind 4691 SW 131st Ter.	
66	Hidden Lake	NW 208th Ave. & (S) of NW 14th St.	
67	Menorah Gardens & Funeral Chapels	21100 Griffin Rd.	
68	SBDD CS-13A Upstream	4701 SW 199th Ave.	Telemetry
69	SBDD CS-13A Downstream	(N) of 4701 SW 199th Ave. in C-11 Canal	Telemetry
70	Deems Ranches	SW 170th Ave. & Griffin Rd.	Telemetry
71	Green Meadows	SW 164th Ave & Griffin Rd.	Telemetry
72	Grand Palms	Pembroke Rd. & (E) of SW 152nd Ave. by Water Level Recorder	Water Level Recorder
73	Pembroke Lakes # 4	NW 114th Ave. & Johnson St.	
74	SBDD CS-13	19640 Griffin Rd.	Telemetry
75	SBDD CS-12	18840 Griffin Rd.	Telemetry
77	SBDD ICS-13A	19950 SW 60th St.	Telemetry
78	SBDD ICS-12	18850 SW 63rd St.	Telemetry
79	SBDD ICS-13	19800 SW 60th St.	Telemetry
80	Sunset Lakes	Sunrise Ave. & (S) of Miramar Pkwy.	Water Level Recorder
81	Hidden Lake (W)	(N) of 1111 NW 209th Ave.	Water Level Recorder
82	Silver Lakes Flood Gate	(E) of NW 178th Ave. & Pines Blvd.	Telemetry
83	S-7 Pump Station Downstream	4301 SW 124th Ave.	Telemetry
84	Pembroke Falls	NW 136th Avenue & (S) of Sheridan St. Entry Gate	Water Level Recorder
85	S-1 Pump Station Downstream	3900 Utopia Dr.	Telemetry



SOUTH BROWARD DRAINAGE DISTRICT OVERALL MAP WITH WATER LEVEL RECORDERS

Legend

- Water Level Recorders
- Major Control Structures
- Pump Station
- SFWMD Canal
- SBDD Boundary
- SBDD Basins



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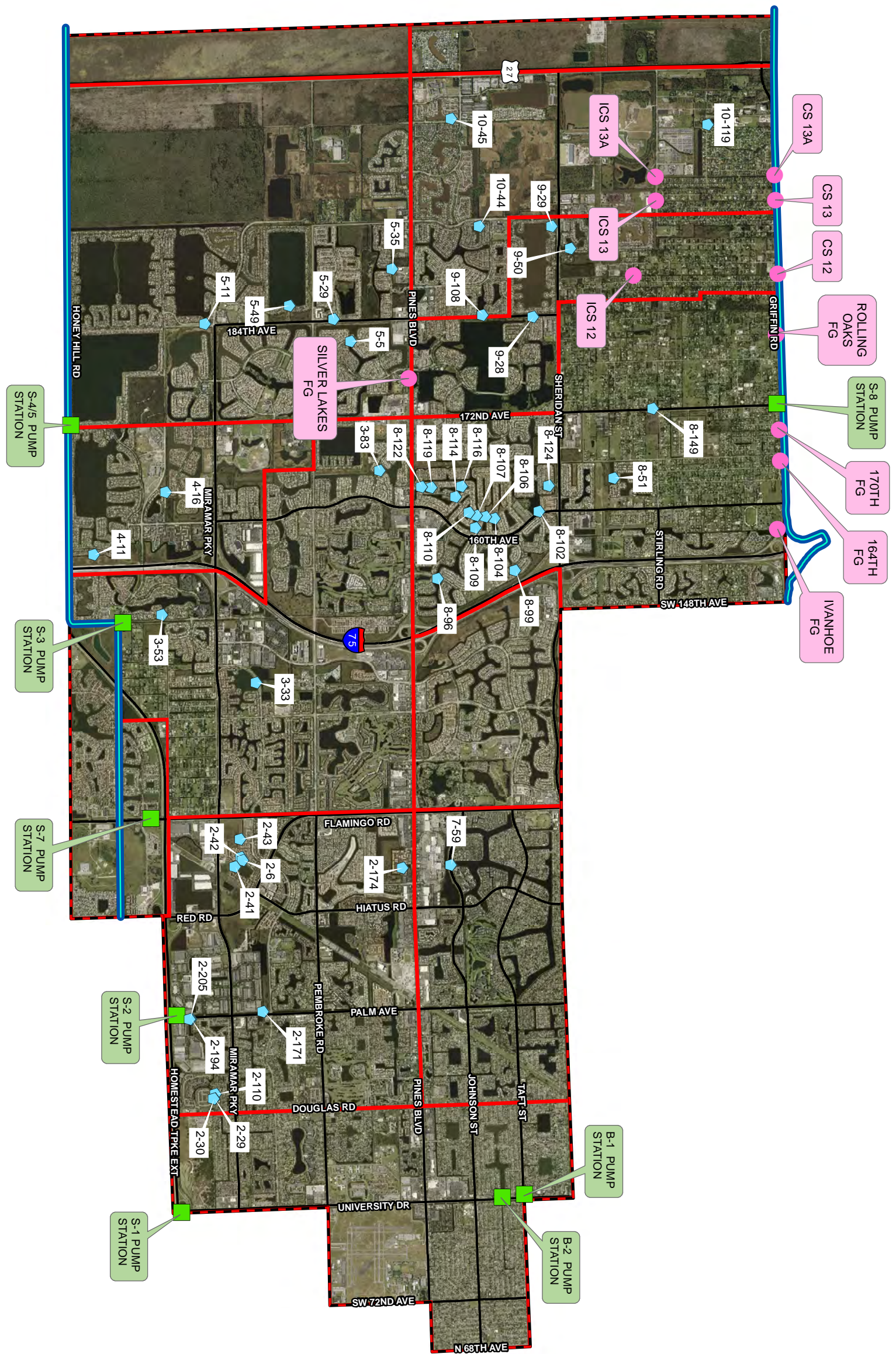
Feet

FIGURE I-9

TABLE I-7

SBDD OVERALL WATER LEVEL RECORDER SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>
PB0007	Pasadena Lakes / University Dr. Canal	University Dr. & Pasadena Blvd.
GP0072	Grand Palms	Pembroke Rd. & (E) of SW 152nd Ave. by Water Level Recorder
HD0063	Home Depot at the Fountains	Miramar Pkwy. & Dykes Rd.
C70037	SBDD Canal 7	SW 196th Ave. & (S) of Pines Blvd.
SNLK75	Sunset Lakes	Sunrise Ave. & (S) of Miramar Pkwy.
CW0002	Cedarwoods	Palm Ave. Canal & (N) of Taft St.
TG0029	Towngate	NW 155th Ave. & (N) of Pines Blvd.
CT0040	Chapel Trails	NW 202nd Ave. & (N) of NW 4th St.
CTFG46	Chapel Trail Outfall	(W) of SW 196th Ave. & Sheridan St.
TR0050	Trails of El Rancho Acres	Griffin Rd. & SW 205th Ave.
HILK74	Hidden Lake (W)	(N) of 1111 NW 209th Ave.
PF0084	Pembroke Falls	NW 136th Avenue & (S) of Sheridan St. Entry Gate
SFLG87	SFWMD G-87 Structure	Flamingo Rd. Canal & Sheridan St.



SOUTH BROWARD DRAINAGE DISTRICT OVERALL MAP WITH FISH GUARDS

2019 UPDATE

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- Legend**
- ◆ Fish Guards
 - Major Control Structures
 - Pump Station
 - ▬ SFWMD Canal
 - SBDD Boundary
 - SBDD Basins

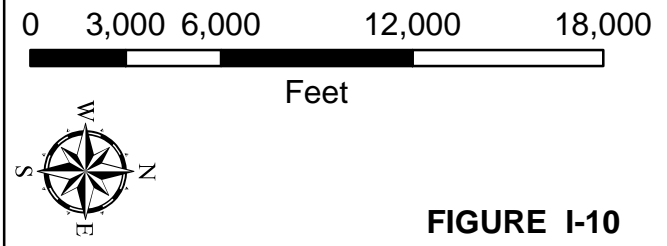
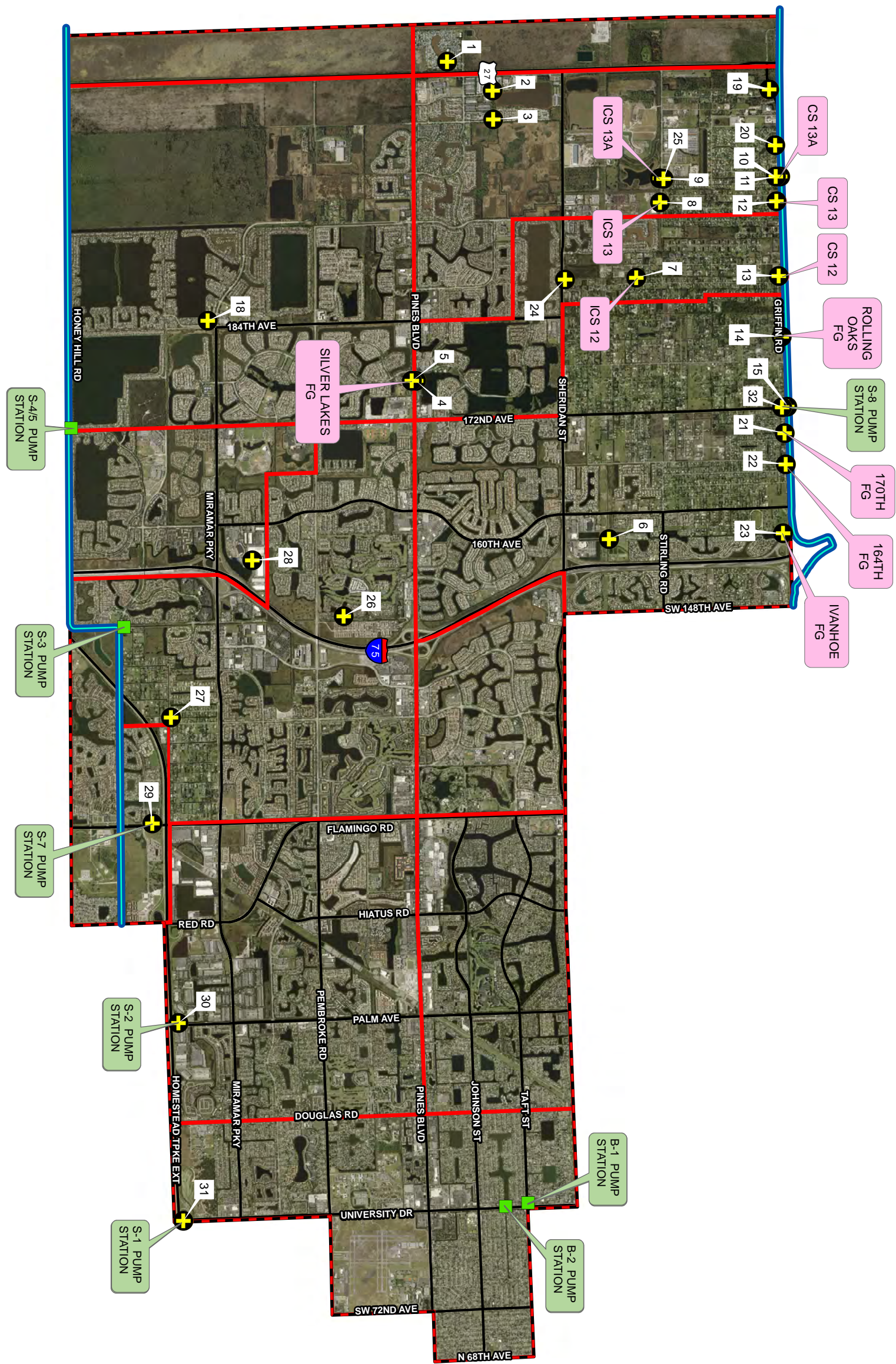


FIGURE I-10

TABLE I-8

SBDD OVERALL FISH GUARD SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>
2-6	Cleghorn / Montclair (N)	Montclair Blvd. & SW 27th Ct.
2-29	Waterview	SW 34th Ct. & SW 90th Ter.
2-30	Waterview	SW 34th Ct. & SW 90th Ter.
2-41	Cleghorn / Flamingo Cove	SW 116th Ave. & SW 30th St.
2-42	Cleghorn / Montclair (W)	SW 119th Way & SW 28th St.
2-43	Cleghorn / Martinique	2784 SW 121st Ave.
2-110	Waterview	SW 34th Ct. & SW 90th Ter.
2-171	Miramar Park of Commerce	Palm Ave. Canal & (S) of Miramar Blvd.
2-174	Bed, Bath & Beyond	Pines Blvd. & 114th Ave. - Behind Store
2-194	Miramar Park of Commerce IV - (N) Pipe	Palm Ave. & (N) of Premier Pkwy.
2-205	Miramar Park of Commerce IV - (S) Pipe	Palm Ave. & (N) of Premier Pkwy.
3-33	Monarch Lakes	West Lake on West side
3-53	Huntington	Outfall @ C-4 Canal
3-83	Pembroke Shores	(W) of SW 164th Ave. & SW 5th St.
4-11	Riviera Isles	5131 SW 155th Ave.
4-16	Regalo @ Riviera Isles	4705 SW 164th Ave.
5-5	Silver Lakes	SW 182nd Ave. & SW 9th St.
5-11	Sunset Lakes	SW 184th Ave. & (S) of Miramar Pkwy.
5-29	Encantada	SW 184th Ave. & (N) of SW 14th St.
5-35	Franklin Academy	SW 188th Ave & SW 3rd St
5-49	Harbor Lakes	SW 185th Ave. & SW 21st St.
7-59	Pembroke Lakes	Johnson St. & W/O Hiatus Rd.
8-51	Estates of Stirling Lakes	Erie Pl. @ South end
8-96	Towngate	NW 155th Ave. & (N) of NW 5th St.
8-99	Park Crossing at Towngate	NW 155th Ave. & NW 15th St.
8-102	Towngate / Spring Valley Park	NW 160th Ave. & (N) of NW 15th St.
8-104	Spring Valley	NW 163rd Ave. & NW 13th St. - East Side
8-106	Spring Valley	NW 163rd Ave. & NW 13th St. - East Side
8-107	Spring Valley	NW 163rd Ave. & NW 12th St. - East Side
8-109	Spring Valley	16146 NW 12th St.
8-110	Spring Valley	NW 163rd Ave. & NW 11th St. - East Side
8-114	Spring Valley	NW 163rd Ave & 8th Dr. (W)
8-116	Spring Valley	935 NW 164th Ave.
8-119	Spring Valley	355 NW 164th Ave.
8-122	Spring Valley	NW 164th Ave. & NW 2nd Dr.
8-124	Parkside at Spring Valley	NW 163rd Ave. & NW 23rd St.
8-149	Magnolia Estates	SW 172nd Ave. & SW 61st St.
9-28	Silver Lakes / Keystone Lakes	NW 184th Ave. & (N) of NW 17th St.
9-29	Keystone Lake	19455 NW 24th Pl.
9-50	Laguna Isles	SW 193rd Ave. & (N) of Sheridan St.
9-108	Silver Lakes / Chapel Trail	NW 184th Ave. & (S) of Keystone Lake Entrance
10-44	Chapel Trail Estates	NW 195th Ave & NW 13th St.
10-45	Malibu Bay	NW 208th Ave. & (S) of Johnson St.
10-119	Franklin Academy / Durango	20526 SW 54th Pl.



SOUTH BROWARD DRAINAGE DISTRICT BENCHMARK MAP

Legend

- ⊕ Benchmark
- Major Control Structures
- Pump Station
- SFWMD Canal
- SBDD Basins
- SBDD Boundary



0 3,000 6,000 12,000 18,000

Feet

FIGURE I-11

TABLE I-9

SBDD OVERALL BENCHMARK SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>	<i>Elevation (N.G.V.D.)</i>
1	Holly Lake Trailer Park	NW 215th Ave. & (S) of NW 7th St.	Set nail and disk lb #3870 in most Southwest Corner of boat ramp at north end of lake.	3.68'
2	Hidden Lake (West)	(N) of 1111 NW 209th Ave.	Set nail and disk lb #3870 in southeast corner of headwall on canal south of Hidden Lake; east side of NW 209th Ave.; 60' east of center line of 209th Avenue.	5.94'
3	Hidden Lake (East)	NW 208th Ave. & (S) of NW 14th St.	Set nail and disk lb #3870 10' north of south end of headwall on canal south of Hidden Lake; 65' west of west E.O.P. of NW 208th Ave., south of NW 14th Street.	5.71'
4	Silver Lakes (North)	(E) of NW 178th Ave. & Pines Blvd.	Set nail and disk lb #3870 in center of headwall on north side of Pines Blvd; +/- 200' east of NW 178th Avenue.	6.85'
5	Silver Lakes (South)	(E) of NW 178th Ave. & Pines Blvd.	Set nail and disk lb #3870 10' east of west end of headwall on south side of Pines Blvd.; +/- 200' east of NW 178th Avenue.	5.29'
6	Waverly Hundred at Ivanhoe	Hawke's Bluff Ave. & Sledgemill Rd.	Top of center bolt north face of gate assembly +/- 3' above aluminum gate bridge. Located 40' +/- west of E.O.P. and 50' +/- north of south end Hawke's Bluff Road.	10.16'
7	SBDD ICS-12	18850 SW 63rd St.	Set nail and disk lb #3870 in headwall on south side of SW 63rd Street; east of 18900 SW 63rd Street. 6' east of C.L.F.	5.97'
8	SBDD ICS-13	19800 Stirling Rd.	Set nail and disk lb #3870 in headwall on south side of Stirling Road. West of 196th Avenue.	6.24'
9	SBDD ICS-13A	19950 Stirling Rd.	Set nail and disk lb #3870 in east end of headwall on south side of Stirling Road. West of 199th Avenue.	5.01'
10	SBDD CS-13A (North)	4701 SW 199th Ave.	Set nail and disk lb #3870 on west end of headwall, north of Griffin Rd.	6.48'
11	SBDD CS-13A (South)	4701 SW 199th Ave.	Set nail and disk lb #3870 at NW corner of aluminum gate stand top of concrete headwall, south side of Griffin Rd.	7.50'
12	SBDD CS-13	19640 Griffin Rd.	Set nail and disk lb #3870 at NW corner of aluminum gate stand top of concrete headwall south side of Griffin Rd.	7.76'
13	SBDD CS-12	18840 Griffin Rd.	Set nail and disk lb #3870 6 1/2 feet east of west C.L.F. on headwall at 18840 Griffin Road (south side).	6.85'
14	Rolling Oaks	(W) of 17950 Griffin Rd.	Set nail and disk lb #3870 at center line headwall +/- 300' west of Church entrance south side of Griffin Road.	5.36'
15	SBDD S-8 Pump Station (North)	SW 172nd Ave. & Griffin Rd.	Set nail and disk lb #3870 set 5' +/- west of east end of headwall north side of Griffin Road and SW 172nd Avenue.	4.68'

TABLE I-9

SBDD OVERALL BENCHMARK SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>	<i>Elevation (N.G.V.D.)</i>
18	Sunset Lakes	SW 185th Ave. & (S) of Miramar Pkwy.	Set mag nail and washer in headwall at Sunset Lakes site "BL LB 6852" Horizontal location - Northing 597934.705 Easting 855608.251 Vertical elevation 4.59' NAVD 1988	6.12'
19	Menorah Gardens	(E) of 21100 Griffin Rd.	Large nail and blue disk in centerline of rip-rap headwall +/- 48' south of south edge of pavement Griffin Road and +/- 50' east and +/- 135' north of the N.E. corner of Menorah Gardens and Funeral Home building.	4.94'
20	Trails of El Rancho Acres	(W) of SW 202nd Ave. & Griffin Rd.	Square cut in centerline of concrete headwall +/- 92' south of south edge of pavement Griffin Road and +/- 1025' west of centerline S.W. 202nd Avenue.	4.37'
21	Deems Ranches	(W) of SW 168th Ave. & Griffin Rd.	Square cut in centerline of concrete headwall +/- 67' south of south edge of pavement Griffin Road and +/- 335' west of centerline S.W. 168th Avenue.	6.37'
22	Green Meadows	(W) of SW 164th Ter. & Griffin Rd.	Square cut in centerline of concrete headwall +/- 50' south of south edge of pavement Griffin Road and +/- 324' west of centerline S.W. 164th Terrace.	6.64'
23	Ivanhoe (N) Flood Gate	Hawke's Bluff Ave. & (S) of Griffin Rd.	Square cut in centerline of concrete headwall +/- 62' S.W. of centerline Hawkes Bluff Avenue and +/- 1200' east of Dykes Road and also +/- 56' east of centerline of an asphalt drive.	8.25'
24	SBDD C-12 Canal at Sheridan St.	(W) of 18851 Sheridan St.	On the east end of the headwall at the south end of SBDD Canal 12 on the north side of Sheridan Street west of Valdez Nursery (Bench Mark 2" square cuts).	5.30'
25	Durango Estates	Behind 5931 SW 199th Ave.	On the east end of the headwall on the north side of Stirling Road west of the fire station which is west of 196th Avenue (Bench Mark 2" square cuts).	5.94'
26	Grand Palms	Sabal Palm Dr. & (N) of SW 15th St.	On the west side of Sabal Palm Dr. Elevation on top of bolt in south concrete headwall.	3.78'
27	Country Club Ranches	(E) of SW 137 Ave. & (N) of SW 41 St.	Miramar. Blue Gill Road - Elevation in square cut on top of headwall.	3.32'
28	North 29	(N) of 15500 SW 29th St.	Home Depot. Miramar Parkway & Dykes Road - Elevation in square cut on top of headwall.	4.32'
29	SBDD S-7 Pump Station	4301 SW 124th Ave.	Brass disc set at (NW) corner of building, next to trash rack.	8.54'
30	SBDD S-2 Pump Station	4000 SW 101st Ave.	Brass disc set at (NW) corner of building, next to trash rack.	8.676'
31	SBDD S-1 Pump Station	3900 Utopia Dr.	Brass disc set at (NW) corner of building, next to trash rack.	8.71'

TABLE I-9

SBDD OVERALL BENCHMARK SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>	<i>Elevation (N.G.V.D.)</i>
32	SBDD S-8 Pump Station (South)	17221 SW 46th St.	Brass disc set at (SE) corner of building, next to trash rack.	9.656'

SOUTH BROWARD DRAINAGE DISTRICT

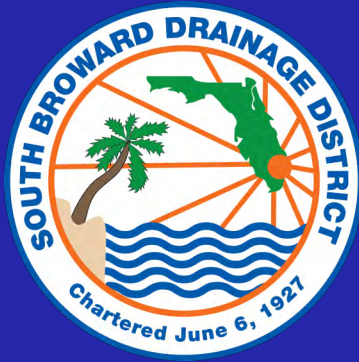


FACILITIES REPORT AND WATER CONTROL PLAN

SECTION II



SOUTH BROWARD DRAINAGE DISTRICT



BASIN S-1



BASIN S-1

DESCRIPTION

The S-1 basin is located in the eastern quadrant of the District and encompasses approximately 6.5 square miles. It is bordered by Sheridan Street and Taft Street on the north, by the Miami-Dade County/Broward County line (Florida Turnpike Extension), Pembroke Road and Hollywood/Pines Boulevard to the south, by Douglas Road to the west, and by University Drive, SW 72nd Avenue and N 68th Avenue to the east. The S-1 basin includes portions of three municipalities: the eastern sections of the Cities of Pembroke Pines and Miramar, and the western portion of the City of Hollywood. The overall boundaries of the S-1 Basin and its existing facilities are shown in Figure II-A-1 and Table II-A-1 provides a summary of the S-1 Basin characteristics.

The S-1 Basin represents an older, more urbanized section of the District. Many of the homes and infrastructure in this basin were built prior to 1970 and there are very few undeveloped parcels of land in the basin. Since 2013, the following improvements have been completed within the S-1 Basin:

S-1 Pump Station Improvements

- Rebuilt all four Caterpillar diesel engines.
- Rebuilt three stormwater pumps.
- Installed cameras for security and operational purposes.
- Upgraded the fuel lines.
- Installed by-pass culvert and sluice gate.
- Installed a downstream water level recorder.
- Upgraded the telemetry and control systems.
- Installed 2 new gear drives and rebuilt one gear drive.
- Replaced the drive shafts (carbon fiber) and clutches for all pumps/engines.
- Installed new battery chargers.
- Installed new LED lighting.
- Replaced the existing generator with a new generator.

Basin-Wide Improvements

- Performed miscellaneous dredging of the C-1 Canal and Taft Street Canal.
- Installed a culvert slip liner at NW 13th Street crossing, east of University Drive (Culvert #1-26).
- Installed three culvert slip liners at the Taft Street Canal, west of University Drive (Culvert #s 1-18, 1-19 and 1-20).
- Modified the University Park flood gate (FG # 1-38).
- Completed miscellaneous boat ramp improvements.
- Installed revetment stabilization at miscellaneous lake interconnects.
- Performed miscellaneous tree removal work throughout Basin 1.
- Completed miscellaneous culvert inspections and culvert cleanings.

The following new developments and redevelopments were been completed since 2013:

- Sienna Commercial, Calabria Residential, Cross Roads Square, Wendy's (University Dr. & Pines Blvd.), Sunshine Gas (Pembroke Rd. & University Dr.), Ventura Point, Metro Diner, and Douglas Gardens V.

The following infrastructure improvements are proposed for the S-1 Basin:

- Replace and relocate the existing 10,000-gallon above-ground fuel tank with a new 8,000-gallon, UL 2085 double-walled steel tank.
- Install a second 48" diameter by-pass culvert and sluice gate (east by-pass).
- Replace and upsize Culvert #1-51 (24" diameter to 48" diameter)
- Upgrades to the B-1 and B-2 secondary pump stations.
- Install a fire suppression system inside the S-1 pump station.
- Continue to rehabilitate aging infrastructure (i.e.: primary drainage culverts), as needed.
- Continued dredging and deepening of SBDD primary and secondary canals.
- Hardening of lake banks and headwalls at critical lake interconnect locations.
- Continued boat ramp installations and improvements for improved access by SBDD maintenance crews, as needed.
- Miscellaneous culvert inspections, repairs/replacements.

METHODOLOGY

The SBDD Canal No. 1 is the primary canal that serves Basin S-1. Canal No. 1 extends along the east side of University Drive from Sheridan Street to the District's S-1 pump station located just north of the Homestead Turnpike Extension (a distance of approximately 4.0 miles). Allowable discharge from the basin is directed to the SFWMD C-9 Canal and is controlled by the S-1 stormwater pump station. Water quality requirements and discharge rates from the basin are regulated by the SFWMD Permit # 06-00826-S, with an allowable discharge rate of 425 cfs. The control water elevation for the S-1 Basin is 2.5' NGVD and water quality for the basin is provided behind the pump station, prior to any discharge into the SFWMD C-9 Canal.

The S-1 pump station consists of four pumps, three primary and one redundant pump. The operation of the pump station is fully automated through state of the art control panels and telemetry system. The control systems for the S-1 pump station have been programmed to ensure that required water quality standards are met prior to discharge, and that discharge rates meet the allowable rates under the SFWMD Permit.

Development in Basin S-1 has been ongoing since the early 1950's and the land use consists primarily of residential and commercial properties. Some areas of the basin, which were developed prior to 1970, lack sufficient stormwater management, since they

were not subject to the regulations and guidelines established by state and local agencies until after 1970.

Approximately one square mile of residential area in the eastern part of the basin, within the City of Hollywood (Sections 11 and 14) does not have a direct discharge point into SBDD Canal No. 1. The storm runoff from these areas is assumed to sheet flow to Canal No. 1 during major storm events. The drainage systems at the North Perry Airport and Broward College properties are self-contained and are not included in the model. Also, the FPL borrow lakes south of Sheridan Street do not have a direct connection to the S-1 Basin conveyance system. As a result, there is a difference in the land area of approximately 1,120 acres between the model and the actual basin area. Basin S-1 also serves areas that are considered to be outside of the boundaries of the basin. These areas are east of University Drive and South of Pembroke Road, including portions of Miramar Parkway and residential areas within Sections 22 and 27.

The developments west of University Drive all have stormwater management systems consisting of lakes, canals and culverts that are interconnected and discharge into Canal No. 1 at several shared outfall points, with the one exception of the Mission Wood development.

Figure II-A-1 depicts the existing facilities in Basin S-1 and Table II-A-2 provides the existing culvert schedule for the basin. Figures II-A-2, II-A-3, and II-A-4 show the existing flood gates, control structures, and staff gauges within Basin S-1, respectively, with corresponding Schedule Tables II-A-3, II-A-4, and II-A-5.

MODEL ANALYSIS

Basin S-1 is comprised of nine (9) sub-basins that discharge into Canal No. 1, seven by gravity and the other two by gravity and via pump stations. Table II-A-1 identifies the basin characteristics.

The AdICPR computer modeling was performed to simulate the 10-year, 3-day and the 100-year, 3-day storm events for future conditions including known improvements through the current update. A new model run for Basin S-1 was performed in 2017 by Craven Thompson & Associates, Inc, to take into account the limited discharge from the Ventura Point multi-family, residential development.

Figure II-A-5 shows the AdICPR nodal diagram for Basin S-1 and Tables II-A-6 and II-A-7 list the AdICPR output data for maximum stages and 72-hour stages at each node within the basin.

SUMMARY & RECOMMENDATIONS

The AdICPR model results indicate that the basin is adequately served by the existing infrastructure in Basin S-1 and the basin meets the District's adopted Level of Service for the 10-year and 100-year storm events.

The model results also indicate that the peak stages and cumulative head loss in Canal No. 1 is within an acceptable range. Therefore, no improvements are recommended for the conveyance ability of the system, since it meets SBDD's adopted Level of Service and provides adequate storage and drainage for the basin as a whole. In addition, no additional culvert crossings are permitted in the University Drive Canal (SBDD Canal No. 1) and all undeveloped areas and redevelopment projects shall provide a minimum of 15% water management area, or equivalent.

For modeling purposes, the two (2) secondary stormwater pump stations regulating the north central sub-basins were modeled as open 48" culvert connections. These pump stations are also available to reduce peak stages and durations within the sub-basins they serve. Both secondary pump stations have gravity connections into the SBDD Canal No. 1.

Due to the lack of a storm sewer system and positive drainage connection to the SBDD's primary canal, the residential areas east of N. 72nd Avenue can experience limited localized flooding during intense rainfall events. Any drainage improvement should be part of a Neighborhood Improvement Project undertaken by the local municipality.

TABLE II-A-1

**SUMMARY OF BASIN CHARACTERISTICS
BASIN S-1**

GENERAL

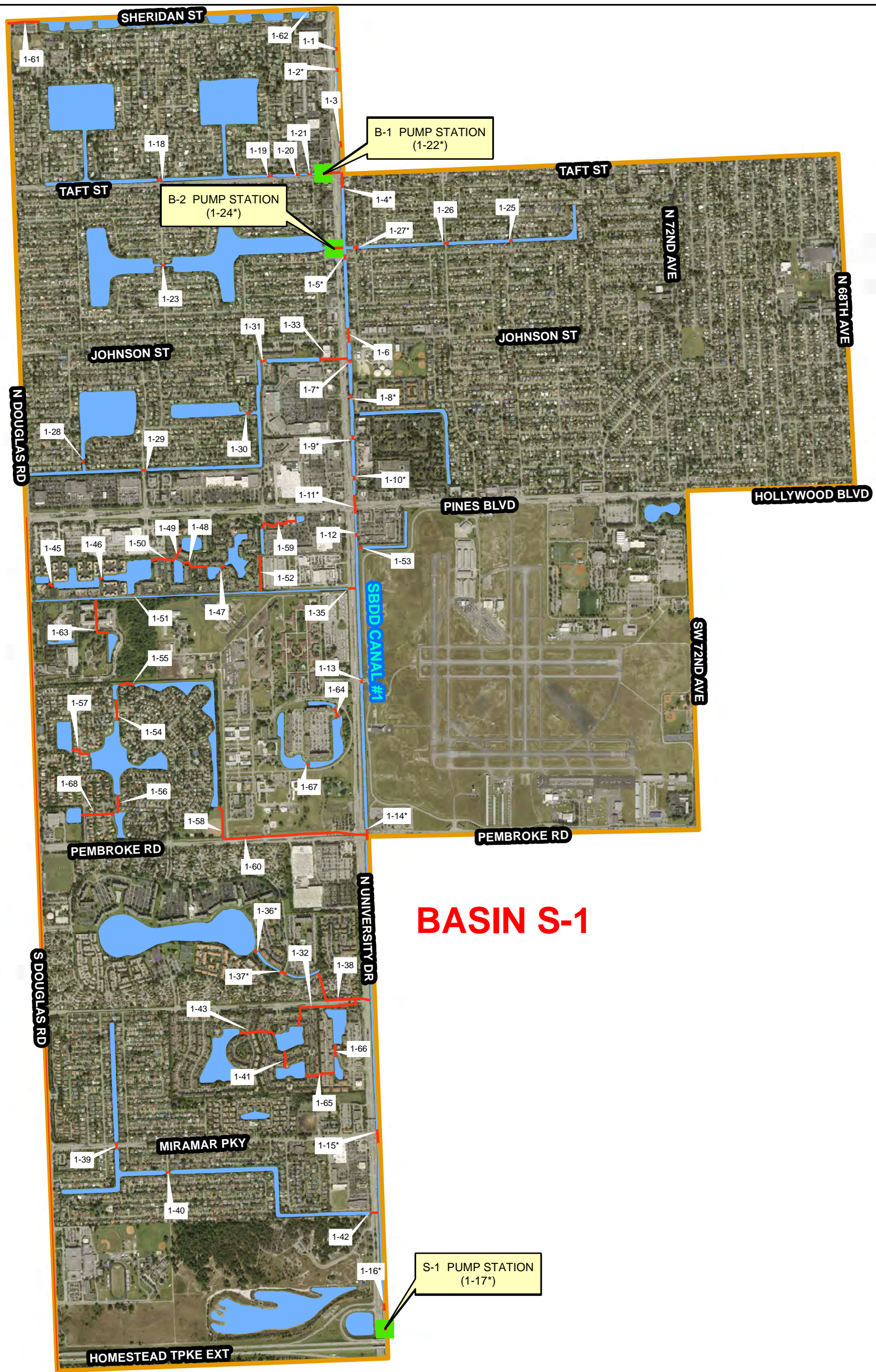
BASIN AREA	(AC)	4160
PERVIOUS AREA	(AC)	2092 (51%)
IMPERVIOUS AREA	(AC)	1913 (46%)
LAKE AREA	(AC)	155 (3%)
CONTROL ELEVATION	(FT NGVD)	2.50
10-YEAR 3-DAY FLOOD ELEVATION (MINIMUM ROAD CROWN)	(FT NGVD)	6.50
100-YEAR 3-DAY FLOOD ELEVATION (MINIMUM FINISHED FLOOR ELEVATION)	(FT NGVD)	8.00
 <u>Note:</u> All undeveloped areas are required to have a minimum of 15% water management area and to comply with all SFWMD and SBDD Criteria.		

S.F.W.M.D. PERMIT CONDITIONS (PERMIT # 06-00826-S)

DISCHARGE CONTROL STRUCTURE		PUMP STA
DISCHARGE CAPACITY	(CFS)	425
RECEIVING WATER		SFWMD C-9

CANAL

CANAL NAME		SBDD No 1
LENGTH	(FT)	21,000
MANNING'S "n"		0.033



BASIN S-1

Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™

SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-1 EXISTING FACILITIES MAP

2019 UPDATE

- Legend**
- ~ SFWMD Canal
 - Culverts
 - SBDD Pump Station
 - ~ Water Bodies

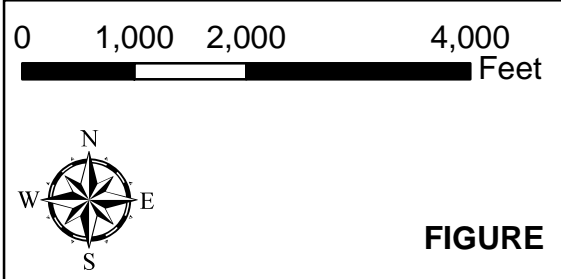


FIGURE II-A-1

TABLE II-A-2

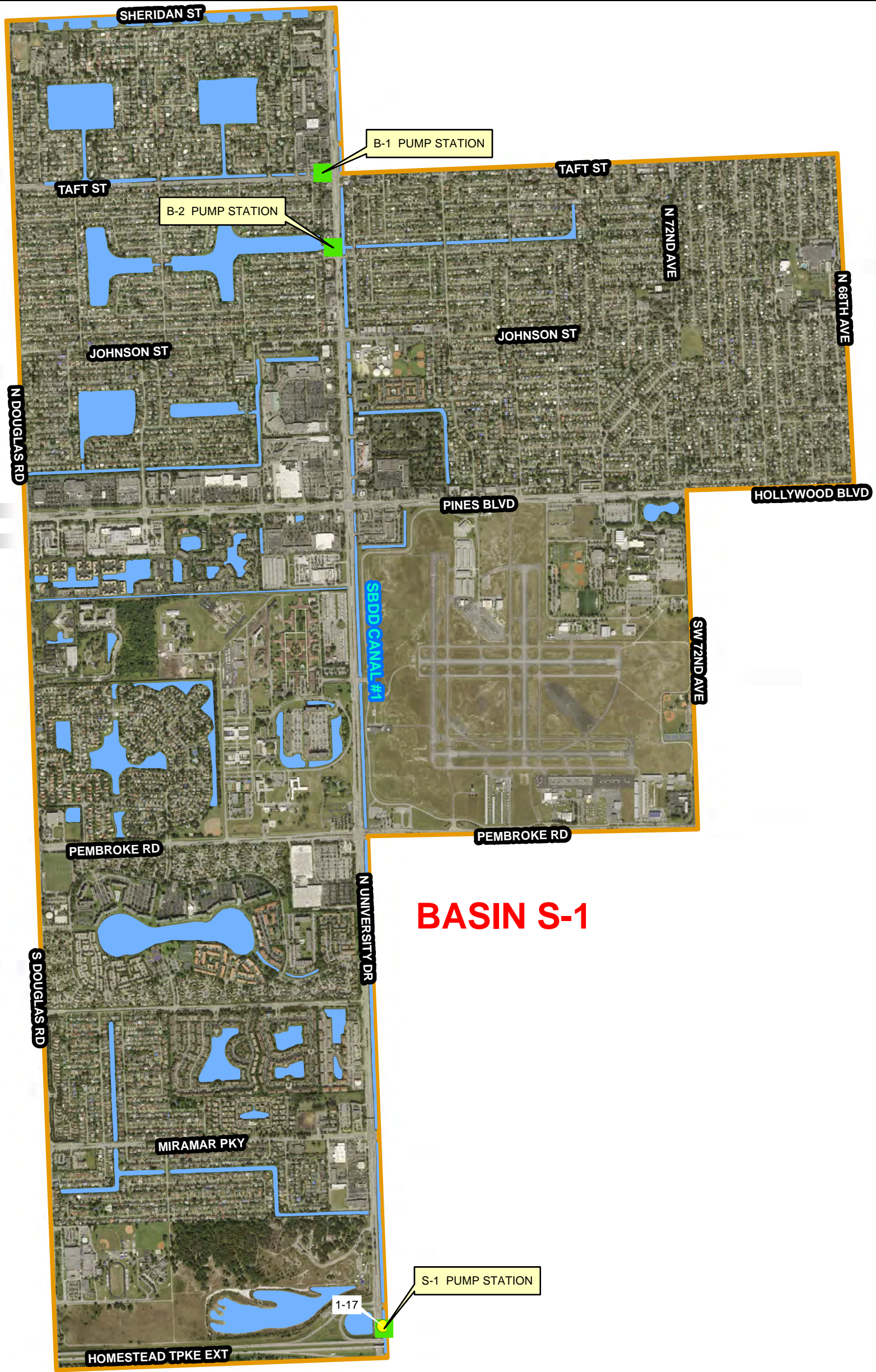
BASIN S-1 EXISTING CULVERT SCHEDULE							
<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
1-1	University Dr. / Pancake House	University Dr. & NW 23rd St.	48	RCP	CIRC.	55	
1-2.1	Ventura Pointe	University Dr. & Pasadena Blvd.	36	RCP	CIRC.	85	
1-2.2	Ventura Pointe	University Dr. & Pasadena Blvd.	36	RCP	CIRC.	85	
1-3	Walnut Creek	University Dr. & 1 Block (N) of Taft Street	60	RCP	CIRC.	106	
1-4.1	University Dr. & Taft St.	University Dr. & Taft St.	48	CMP	CIRC.	252	
1-4.2	University Dr. & Taft St.	University Dr. & Taft St.	60	CMP	CIRC.	252	
1-5.1	University Dr. & NW 13th St.	University Dr. & NW 13th St.	72	CMP	CIRC.	80	
1-5.2	University Dr. & NW 13th St.	University Dr. & NW 13th St.	72	CMP	CIRC.	80	
1-6	University Dr. & Johnson St.	University Dr. & Johnson St.	135 x 96	CMP	ELLIP.	243	
1-7.1	University Dr. / COPP Water Plant	University Dr. & NW 8th St.	72	CMP	CIRC.	49	
1-7.2	University Dr. / COPP Water Plant	University Dr. & NW 8th St.	72	CMP	CIRC.	49	
1-8.1	University Dr. / French Village	University Dr. & French Dr.	103 X 83	CMP	ELLIP.	69	
1-8.2	University Dr. / French Village	University Dr. & French Dr.	103 X 83	CMP	ELLIP.	69	
1-9.1	University Dr. & NW 3rd St.	University Dr. & NW 3rd St.	84	RCP	CIRC.	69	
1-9.2	University Dr. & NW 3rd St.	University Dr. & NW 3rd St.	84	RCP	CIRC.	69	
1-10.1	University Dr. / Fifth Third Bank	University Dr. & NW 1st St.	84	CMP	CIRC.	72	
1-10.2	University Dr. / Fifth Third Bank	University Dr. & NW 1st St.	84	CMP	CIRC.	72	
1-11.1	University Dr. & Pines Blvd.	University Dr. & Pines Blvd.	96	RCP/CMP	CIRC.	297	
1-11.2	University Dr. & Pines Blvd.	University Dr. & Pines Blvd.	96	RCP/CMP	CIRC.	297	
1-12	University Dr. / Hooter's	University Dr. & SW 1st St.	184 X 120	CMP	ELLIP.	59	
1-13	University Dr. / Mosquito Control	University Dr. & Washington St.	197 X 126	CAP	ELLIP.	71	
1-14.1	University Dr. & Pembroke Rd.	University Dr. & Pembroke Rd.	96	RCP	CIRC.	176	
1-14.2	University Dr. & Pembroke Rd.	University Dr. & Pembroke Rd.	96	RCP	CIRC.	176	
1-15.1	University Dr. & Miramar Pkwy.	University Dr. & Miramar Pkwy.	96	RCP	CIRC.	209	
1-15.2	University Dr. & Miramar Pkwy.	University Dr. & Miramar Pkwy.	96	RCP	CIRC.	209	
1-15.3	University Dr. & Miramar Pkwy.	University Dr. & Miramar Pkwy.	96	RCP	CIRC.	209	
1-16.1	University Dr. & Riviera Blvd.	University Dr. & Riviera Blvd.	96	RCP	CIRC.	112	
1-16.2	University Dr. & Riviera Blvd.	University Dr. & Riviera Blvd.	96	RCP	CIRC.	112	
1-16.3	University Dr. & Riviera Blvd.	University Dr. & Riviera Blvd.	96	RCP	CIRC.	112	
1-17.1	S-1 Pump Station	3900 Utopia Dr.	42	STEEL	CIRC.	5	47.5K GPM, Pump # 1
1-17.2	S-1 Pump Station	3900 Utopia Dr.	42	STEEL	CIRC.	5	47.5K GPM, Pump # 2
1-17.3	S-1 Pump Station	3900 Utopia Dr.	42	STEEL	CIRC.	5	47.5K GPM, Pump # 3

TABLE II-A-2

<i>BASIN S-1 EXISTING CULVERT SCHEDULE</i>							
<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
1-17.4	S-1 Pump Station	3900 Utopia Dr.	42	STEEL	CIRC.	5	47.5K GPM, Pump # 4
1-17.5	S-1 Pump Station	3900 Utopia Dr.	48	HDPE	CIRC.	50	Flood Gate
1-18	Pasadena Lakes West	NW 85th Way & Taft St.	60	CMP	CIRC.	80	
1-19	Pasadena Lakes East	NW 82nd Terr. & Taft St.	57	HDPE	CIRC.	81	
1-20	Pasadena Plaza Shopping Ctr. (W)	8130 Taft St.	57	HDPE	CIRC.	68	
1-21	Pasadena Plaza Shopping Ctr. (E)	8100 Taft St.	57	HDPE	CIRC.	70	
1-22.1	B-1 Pump Station (Taft St.)	8081 Taft St.	30	FIBERGLASS	CIRC.	280	19K GPM
1-22.2	B-1 Pump Station (Taft St.)	8081 Taft St.	42 & 48	HDPE/RCP	CIRC.	280	Free Flow Tube
1-23	Sunswept	NW 85th Way & NW 13th St.	48	CMP	CIRC.	64	
1-24.1	B-2 Pump Station (Umberto's)	1340 N. University Dr.	30	FIBERGLASS	CIRC.	145	25K GPM
1-24.2	B-2 Pump Station (Umberto's)	1340 N. University Dr.	42 & 48	HDPE / RCP	CIRC.	144	Free Flow Tube
1-25	Sunswept	NW 76th Ave. & NW 13th St.	42	HDPE	CIRC.	56	
1-26	Sunswept	NW 77th Way & NW 13th St.	42 & 48	HDPE / CAP	CIRC.	94	
1-27.1	Sunswept (Old B-3 Pump Station)	1300 NW 79th Way	48	RCP	CIRC.	94	
1-27.2	Sunswept (Old B-3 Pump Station)	1300 NW 79th Way	48	RCP	CIRC.	94	
1-28	Lakeside	NW 87th Ave. & NW 3rd St.	48	CMP	CIRC.	63	
1-29	Lakeside	NW 86th Ave. & NW 3rd St.	48	CMP	CIRC.	77	
1-30	Lakeside	NW 83rd Way & NW 5th St.	48	CMP	CIRC.	75	
1-31	St. Boniface	NW 83rd Ave. & Johnson St.	72	RCP	CIRC.	97	
1-32	Tuscany	(S) of Miramar Blvd. & (W) of University Dr.	48	RCP	CIRC.	1305	
1-33	St. Boniface - Outfall	University Dr. & (S) of Johnson St.	72	RCP	CIRC.	455	
1-35	Hospital Ditch - Outfall	University Dr. & SW 6th St.	54	RCP	CIRC.	130	
1-36.1	University Park	(W) of Sherman Cir. & Bernard Blvd.	60	CMP	CIRC.	67	
1-36.2	University Park	(W) of Sherman Cir. & Bernard Blvd.	60	CMP	CIRC.	67	
1-37.1	University Park	Sherman Cir. & Bernard Blvd.	54	CMP	CIRC.	117	
1-37.2	University Park	Sherman Cir. & Bernard Blvd.	54	CMP	CIRC.	117	
1-38	University Park	University Dr. & Miramar Blvd.	48 & 54	RCP	CIRC.	1171	
1-39	Knolls	Canal Rd. & Miramar Pkwy.	48 X 72	CMP	ELLIP.	109	
1-40	Knolls	Newport Rd. & Long Acre Dr.	48 X 72	CMP	ELLIP.	71	
1-41	Tuscany	8264 SW 27 St.	48	RCP	CIRC.	283	
1-42	Knolls - Outfall	3372 S. University Dr.	72	RCP	CIRC.	142	
1-43	Murano	(S) of Miramar Blvd. & (W) of University Dr.	48	RCP	CIRC.	589	

TABLE II-A-2

<i>BASIN S-1 EXISTING CULVERT SCHEDULE</i>							
<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
1-45	Windmill Lakes	SW 88th Ave. & SW 6th St. - 1st Crossing (E) of Entry	21	CMP	CIRC.	106	
1-46	Windmill Lakes	SW 86th Ave. & SW 6th St. - 2nd Crossing From Entry	30	CMP	CIRC.	80	
1-47	Heron Pond	8340 S.W. 3rd Court - Between Building 16 & 17	36	CMP	CIRC.	83	
1-48	Heron Pond / Gatehouse	401 S.W. 85th Ave. - Between Buildings 14 & 15	36	CMP	CIRC.	453	
1-49	Gatehouse	(W) of 203 S.W. 85th Terrace	36	CMP	CIRC.	215	
1-50	Gatehouse	(N) of 301 S.W. 85th Terrace	36	CMP	CIRC.	383	
1-51	Gatehouse / Windmill Lakes - Outfall	Behind 8534 S.W. 5th Street	24	CAP	CIRC.	31	
1-52	University Marketplace - Outfall	(W) of 350 S. University Dr. (Behind Handy Storage)	48	CAP	CIRC.	585	
1-53	North Perry Airport - Outfall	University Dr. & SW 3rd St.	36	RCP	CIRC.	68	
1-54	Honeywoods	SW 87th Ave. & SW 10th St.	36	RCP	CIRC.	334	
1-55	Honeywoods - North Lake	900 SW 86th Ave.	36	RCP	CIRC.	253	
1-56	Honeywoods	8672 SW 15th St.	36	RCP	CIRC.	279	
1-57	Cinnamon Ridge	1241 SW 87th Way	24	RCP	CIRC.	351	
1-58	Cinnamon Place Park	NW Corner of Pembroke Rd. & Poinciana Dr.	36	CMP	CIRC.	553	
1-59	University Marketplace	8398 Pines Boulevard	48	CMP	CIRC.	713	
1-60	Driver's License - Outfall	University Dr. & Pembroke Rd.	48 & 36	RCP	CIRC.	2279	
1-61	Polishing Ponds	Douglas Rd. & Sheridan St.	36	CMP	CIRC.	613	Basin Interconnect
1-62	Polishing Ponds Outfall to CBWCD	University Dr. & Sheridan St.	24	RCP	CIRC.	645	Control Structure
1-63	DGN Towers / Douglas Gardens	705 SW 88th Avenue	30	RCP/CAP	CIRC.	722	Control Structure
1-64	Pines Health Park	(NE) of 1627 Poinciana Drive	48	RCP	CIRC.	177	
1-65	Calabria / Sienna	SW 81 Terr. & (N) of SW 29 St.	48	RCP	CIRC.	497	
1-66	Calabria	SW 81st Avenue & (S) of Miramar Blvd.	48	RCP	CIRC.	209	
1-67	Pines Health Park - South Pipe	(S) of 1627 Poinciana Drive	48	RCP	CIRC.	56	
1-68	URI Commercial	Pembroke Rd. & Douglas Rd. (NE Corner)	15 & 18 & 24	RCP	CIRC.	536	Control Structure



BASIN S-1

**SOUTH BROWARD DRAINAGE DISTRICT
BASIN: S-1 FLOOD GATE MAP**

Legend





-  Flood Gate
-  SFWMD Canal
-  SBDD Pump Station
-  Water Bodies

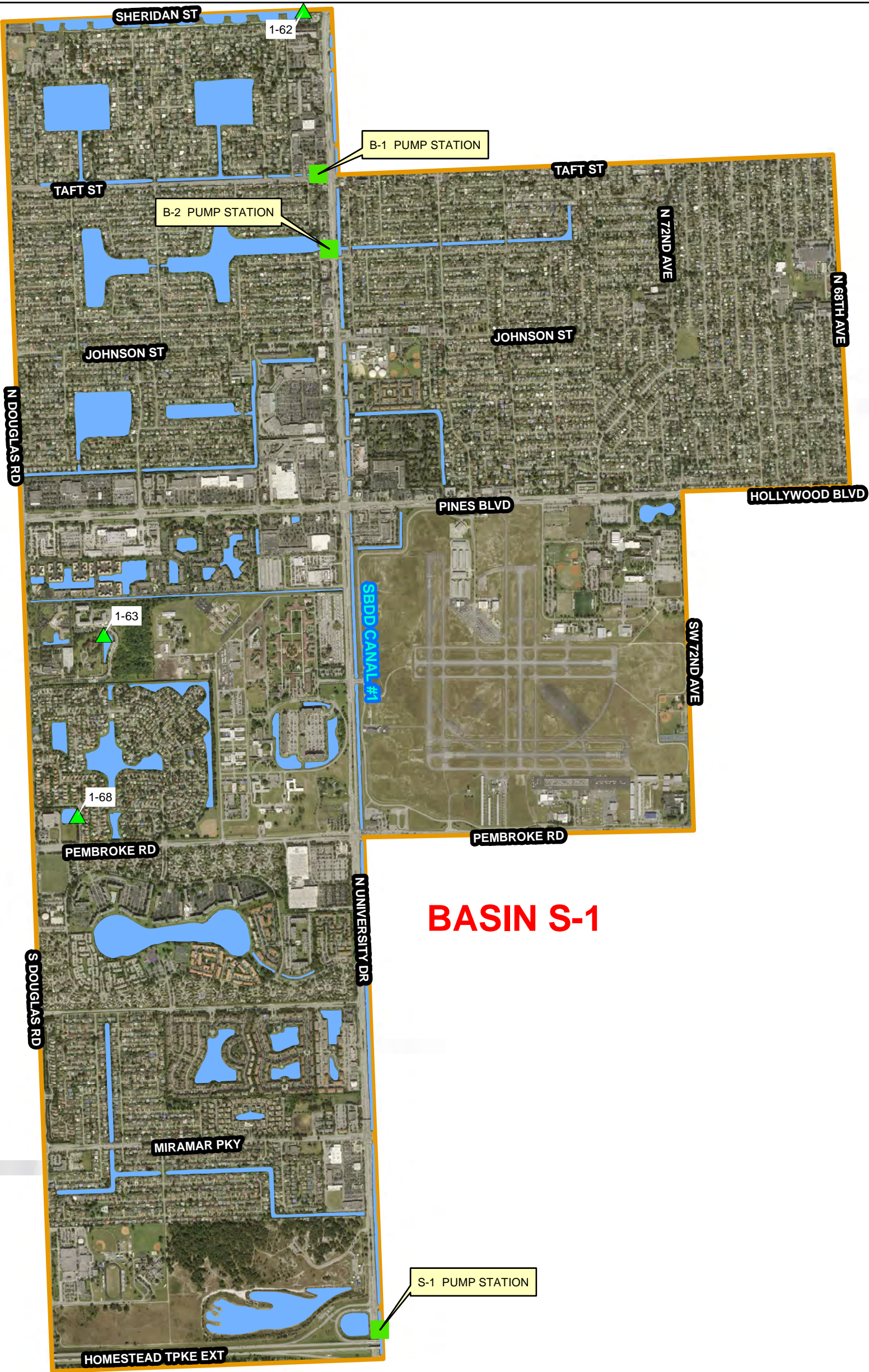


FIGURE II-A-2

TABLE II-A-3

BASIN S-1 FLOOD GATE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
1-17.5	S-1 Pump Station	3900 Utopia Dr.	48" W X 54" H



BASIN S-1

SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-1 CONTROL STRUCTURE MAP

Legend

- ▲ Control Structures
- ~ SFWMD Canal
- SBDD Pump Station
- Water Bodies



0 1,000 2,000 4,000
Feet

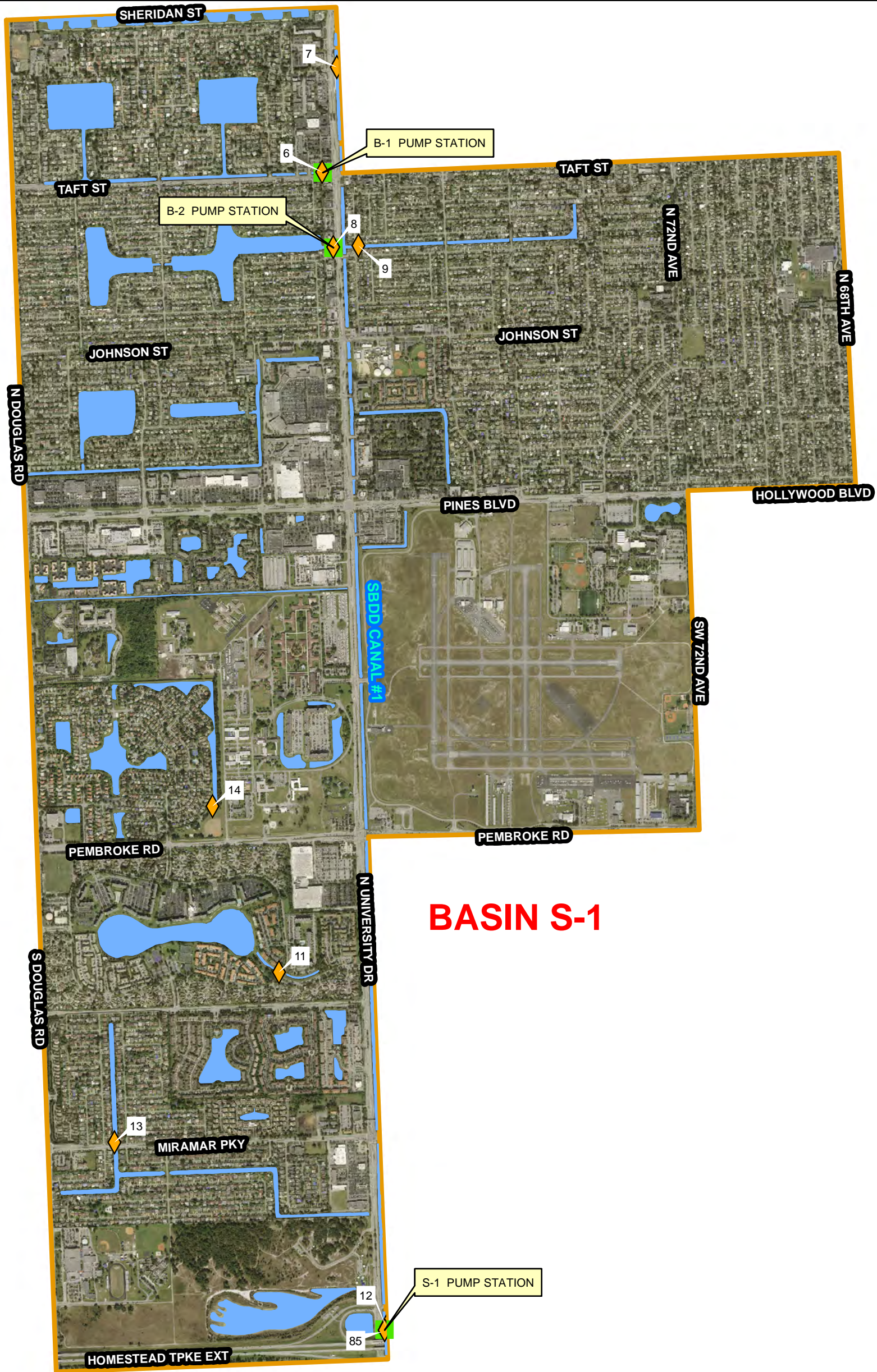


FIGURE II-A-3

TABLE II-A-4

BASIN S-1 CONTROL STRUCTURE SCHEDULE





<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>General Comments</i>
1-62	Pasadena Lakes	Polishing Ponds - Sheridan St. & University Dr.	Over-Flow Structure
1-63	DGN Towers	705 SW 88th Ave.	Over-Flow Structure
1-68	URI Commercial	1611 Douglas Rd.	Weir w/ Bleeder



BASIN S-1

**SOUTH BROWARD DRAINAGE DISTRICT
BASIN: S-1 STAFF GAUGE MAP**

Legend

-  Staff Gauge
-  SFWMD Canal
-  SBDD Pump Station
-  Water Bodies



0 1,000 2,000 4,000 Feet

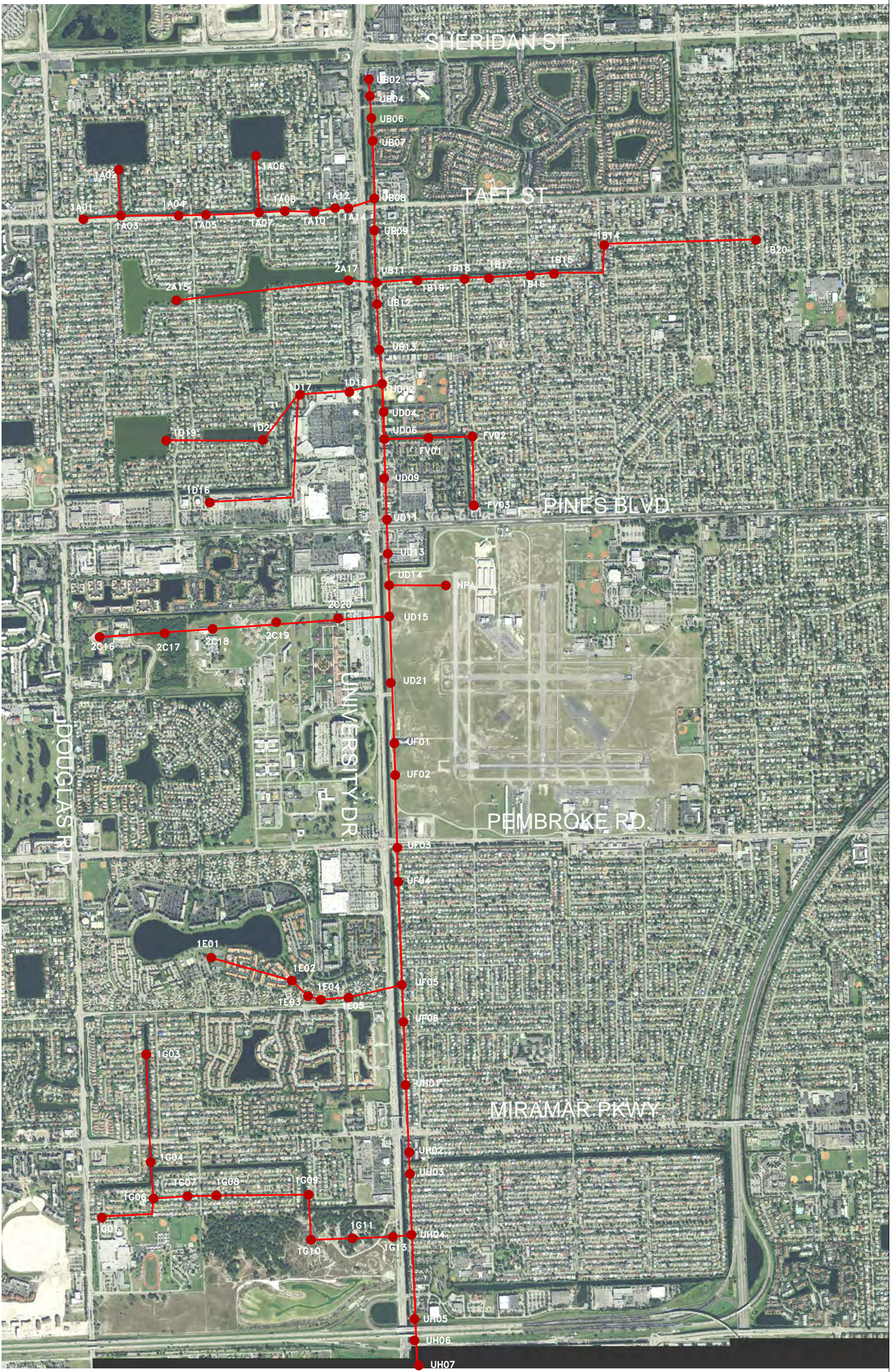


FIGURE II-A-4

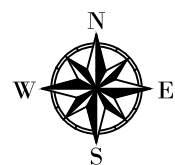
TABLE II-A-5

BASIN S-1 STAFF GAUGE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
6	B-1 Pump Station	8081 Taft St.	
7	Pasadena Lakes / University Dr. Canal	University Dr. & Pasadena Blvd.	Water Level Recorder
8	B-2 Pump Station	1340 N. University Dr.	
9	Old B-3 Pump Station	1300 NW 79th Way	Telemetry
11	University Park Canal	Sherman Cir. & Bernard Blvd.	
12	S-1 Pump Station Upstream	3900 Utopia Dr.	Telemetry
13	Knolls # 3	Miramar Pkwy. & Canal Rd.	
14	Honeywoods	8672 SW 15th St.	
85	S-1 Pump Station Downstream	3900 Utopia Dr.	Telemetry



BASIN 1 NODAL DIAGRAM



SCALE = N.T.S.

FIGURE II-A-5

TABLE II-A-6

BASIN S-1

BASIN MAXIMUM STAGE REPORT

10-YEAR, 3-DAY STORM

25-YEAR, 3-DAY STORM

100-YEAR, 3-DAY STORM

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-1 MAX STAGE REPORT
 TABLE II-A-6
 *****Basin Max. Report*****

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
1A01	BASE	100y_3d	113.05	5.953	8.000	0.0050	28888	0.00	0.000	62.74	112.274
1A01	BASE	10y_3d	84.62	4.748	8.000	0.0050	27977	0.00	0.000	61.87	54.210
1A01	BASE	25y_3d	79.72	5.477	8.000	0.0050	28588	0.00	0.000	63.47	89.661
1A02	BASE	100y_3d	120.00	5.953	8.000	0.0007	2080294	60.50	355.982	61.34	64.756
1A02	BASE	10y_3d	97.45	4.748	8.000	0.0003	1495658	60.50	197.184	61.79	33.067
1A02	BASE	25y_3d	105.84	5.477	8.000	0.0005	1788632	60.50	287.064	62.86	51.157
1A03	BASE	100y_3d	77.75	5.953	8.000	-0.0022	95304	61.34	176.207	62.77	82.270
1A03	BASE	10y_3d	84.62	4.748	8.000	-0.0022	92017	61.87	86.520	61.85	39.820
1A03	BASE	25y_3d	79.71	5.477	8.000	-0.0022	94395	63.47	138.595	63.42	65.104
1A04	BASE	100y_3d	113.05	5.953	8.000	0.0015	52141	62.77	82.270	62.26	12.109
1A04	BASE	10y_3d	97.25	4.748	8.000	0.0013	49663	61.85	39.820	119.99	13.013
1A04	BASE	25y_3d	103.71	5.477	8.000	0.0013	51512	63.42	65.104	61.90	9.051
1A05	BASE	100y_3d	104.64	5.953	8.000	0.0013	41225	62.26	12.109	62.69	60.440
1A05	BASE	10y_3d	86.88	4.748	8.000	-0.0008	39313	119.99	13.013	61.79	29.197
1A05	BASE	25y_3d	84.65	5.477	8.000	0.0009	40639	61.90	9.051	63.37	46.931
1A06	BASE	100y_3d	104.64	5.953	8.000	0.0006	2055540	60.50	349.244	62.69	54.501
1A06	BASE	10y_3d	97.25	4.748	8.000	0.0003	1471999	60.50	195.313	61.79	28.652
1A06	BASE	25y_3d	103.78	5.477	8.000	0.0005	1764220	60.50	282.564	63.11	43.166
1A07	BASE	100y_3d	104.64	5.953	8.000	0.0012	83094	62.69	114.942	62.71	63.512
1A07	BASE	10y_3d	84.93	4.748	8.000	-0.0010	79198	61.79	57.848	61.53	29.611
1A07	BASE	25y_3d	84.70	5.477	8.000	-0.0010	82138	63.37	89.923	63.34	49.780
1A08	BASE	100y_3d	104.64	5.953	8.000	0.0021	27471	62.71	63.512	61.25	23.455
1A08	BASE	10y_3d	86.80	4.748	8.000	-0.0019	26149	61.53	29.611	120.00	25.584
1A08	BASE	25y_3d	84.65	5.477	8.000	-0.0019	27100	63.34	49.780	61.15	17.753
1A10	BASE	100y_3d	77.75	5.953	8.000	0.0016	9606	61.25	23.455	61.44	22.308
1A10	BASE	10y_3d	86.71	4.748	8.000	0.0013	9605	120.00	25.584	120.00	25.668
1A10	BASE	25y_3d	84.65	5.477	8.000	0.0013	9606	61.15	17.753	61.24	16.546
1A12	BASE	100y_3d	107.77	5.953	8.000	0.0015	9604	61.44	22.308	61.51	21.332
1A12	BASE	10y_3d	86.71	4.748	8.000	-0.0008	9602	120.00	25.668	119.95	25.767
1A12	BASE	25y_3d	84.65	5.477	8.000	0.0009	9604	61.24	16.546	61.34	15.568
1A14	BASE	100y_3d	78.53	5.953	8.000	0.0007	663254	60.17	73.211	2.58	1.619
1A14	BASE	10y_3d	86.71	4.748	8.000	0.0003	379042	60.51	37.785	118.79	45.682
1A14	BASE	25y_3d	84.65	5.477	8.000	0.0005	515559	60.02	56.155	118.13	45.329
1B14	BASE	100y_3d	75.94	6.661	8.000	0.0009	41563	76.78	21.513	76.86	21.547
1B14	BASE	10y_3d	69.55	5.594	8.000	0.0008	41563	0.00	0.000	64.25	5.704
1B14	BASE	25y_3d	75.45	6.355	8.000	0.0011	41563	69.47	52.578	69.48	51.661
1B15	BASE	100y_3d	75.94	6.660	8.000	0.0009	3272250	62.08	211.760	60.30	49.653
1B15	BASE	10y_3d	69.55	5.594	8.000	0.0008	2106600	62.17	121.503	61.34	60.644
1B15	BASE	25y_3d	75.44	6.355	8.000	0.0011	2938401	62.07	177.094	60.69	52.643
1B16	BASE	100y_3d	76.01	6.596	8.000	0.0008	33225	60.30	49.653	60.39	41.809

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-1 MAX STAGE REPORT
 TABLE II-A-6
 *****Basin Max. Report*****

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
1B16	BASE	10y_3d	72.01	5.538	8.000	0.0006	31540	61.34	60.644	61.36	54.396
1B16	BASE	25y_3d	75.23	6.295	8.000	0.0009	32746	60.69	52.643	60.75	44.348
1B17	BASE	100y_3d	76.02	6.593	8.000	0.0008	33860	60.39	41.809	60.43	34.688
1B17	BASE	10y_3d	72.33	5.533	8.000	0.0006	32174	61.36	54.396	61.42	48.473
1B17	BASE	25y_3d	75.21	6.292	8.000	0.0009	33381	60.75	44.348	60.82	36.826
1B18	BASE	100y_3d	76.06	6.527	8.000	0.0008	55559	60.43	34.688	76.05	32.495
1B18	BASE	10y_3d	73.21	5.493	8.000	0.0005	50788	61.42	48.473	63.62	42.964
1B18	BASE	25y_3d	74.86	6.231	8.000	0.0008	54221	60.82	36.826	70.09	35.055
1B19	BASE	100y_3d	76.06	6.526	8.000	0.0008	3360737	61.04	283.987	59.51	49.861
1B19	BASE	10y_3d	73.21	5.492	8.000	0.0005	2262001	61.37	184.402	61.82	92.829
1B19	BASE	25y_3d	74.86	6.230	8.000	0.0008	3046476	61.08	239.171	61.42	58.909
1B20	BASE	100y_3d	75.95	6.661	8.000	0.0007	5733584	62.75	174.931	76.78	21.513
1B20	BASE	10y_3d	91.83	6.195	8.000	0.0007	4270183	62.83	95.677	0.00	0.000
1B20	BASE	25y_3d	75.47	6.357	8.000	0.0007	4777450	62.75	140.503	69.47	52.578
1D16	BASE	100y_3d	75.04	6.527	8.000	0.0005	789617	60.17	28.416	60.04	13.352
1D16	BASE	10y_3d	72.72	5.446	8.000	0.0003	417307	60.17	18.159	5.98	12.802
1D16	BASE	25y_3d	70.04	6.246	8.000	0.0004	692984	60.17	24.005	60.02	11.227
1D17	BASE	100y_3d	75.06	6.527	8.000	0.0005	1582275	64.96	220.698	65.31	146.279
1D17	BASE	10y_3d	72.72	5.446	8.000	0.0003	837370	61.44	64.606	64.25	38.155
1D17	BASE	25y_3d	70.03	6.246	8.000	0.0004	1389281	68.88	138.896	69.60	124.379
1D18	BASE	100y_3d	75.08	6.526	8.000	0.0011	52827	65.31	146.279	65.33	144.465
1D18	BASE	10y_3d	72.72	5.446	8.000	0.0006	50924	64.25	38.155	67.14	13.035
1D18	BASE	25y_3d	70.05	6.243	8.000	0.0007	52682	69.60	124.379	69.62	124.233
1D19	BASE	100y_3d	75.02	6.529	8.000	0.0008	5316627	62.17	210.490	65.02	95.592
1D19	BASE	10y_3d	87.83	6.232	8.000	0.0008	4387839	62.17	117.115	0.00	0.000
1D19	BASE	25y_3d	68.22	6.316	8.000	0.0007	4648741	62.17	170.061	68.26	56.418
1D20	BASE	100y_3d	75.03	6.528	8.000	0.0008	5314572	64.97	217.177	64.94	191.894
1D20	BASE	10y_3d	87.83	6.232	8.000	0.0008	4387839	62.17	117.115	0.00	0.000
1D20	BASE	25y_3d	68.20	6.309	8.000	0.0007	4627529	62.17	170.061	68.20	112.919
1E01	BASE	100y_3d	73.23	6.162	8.000	0.0007	3325863	60.50	612.733	60.88	83.660
1E01	BASE	10y_3d	72.36	5.038	8.000	0.0003	2432880	60.50	380.925	60.72	55.250
1E01	BASE	25y_3d	72.91	5.727	8.000	0.0006	2951315	60.50	513.217	60.85	72.268
1E02	BASE	100y_3d	73.29	6.159	8.000	0.0006	29398	60.88	83.660	60.90	78.401
1E02	BASE	10y_3d	72.40	5.033	8.000	0.0003	28597	60.72	55.250	60.74	51.348
1E02	BASE	25y_3d	72.99	5.724	8.000	0.0005	29398	60.85	72.268	60.88	67.555
1E03	BASE	100y_3d	73.29	6.159	8.000	0.0006	743486	60.64	125.341	60.58	51.745
1E03	BASE	10y_3d	72.40	5.033	8.000	0.0003	420793	60.58	82.109	60.53	43.525
1E03	BASE	25y_3d	72.99	5.723	8.000	0.0005	605428	60.66	106.987	60.57	48.579
1E04	BASE	100y_3d	73.28	6.154	8.000	0.0006	815676	61.00	144.425	61.59	32.005
1E04	BASE	10y_3d	72.41	5.021	8.000	0.0004	634406	60.92	91.518	105.43	31.844

SOUTH BROWARD DRAINAGE DISTRICT
BASIN S-1 MAX STAGE REPORT
TABLE II-A-6
*****Basin Max. Report*****

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
1E04	BASE	25y_3d	73.01	5.716	8.000	0.0006	745784	61.00	122.402	61.59	29.086
1E05	BASE	100y_3d	73.28	6.153	8.000	0.0006	379630	61.00	62.650	102.62	28.929
1E05	BASE	10y_3d	72.41	5.021	8.000	0.0004	216289	60.95	43.949	105.38	33.427
1E05	BASE	25y_3d	73.01	5.716	8.000	0.0006	309560	60.95	54.843	120.00	29.432
1G01	BASE	100y_3d	81.70	5.608	8.000	0.0012	64847	0.00	0.000	62.74	44.025
1G01	BASE	10y_3d	73.01	4.689	8.000	0.0007	58433	0.00	0.000	64.25	32.667
1G01	BASE	25y_3d	78.00	5.259	8.000	0.0011	62410	0.00	0.000	63.42	43.876
1G03	BASE	100y_3d	81.70	5.607	8.000	0.0009	110990	0.00	0.000	62.71	38.669
1G03	BASE	10y_3d	72.94	4.691	8.000	0.0004	108683	0.00	0.000	61.87	24.561
1G03	BASE	25y_3d	78.02	5.259	8.000	0.0007	110333	0.00	0.000	63.34	35.282
1G04	BASE	100y_3d	81.70	5.607	8.000	0.0009	982567	60.50	227.626	61.52	67.206
1G04	BASE	10y_3d	72.94	4.691	8.000	0.0004	651472	60.50	120.831	61.19	47.215
1G04	BASE	25y_3d	78.02	5.259	8.000	0.0007	803247	60.50	181.104	61.37	59.721
1G06	BASE	100y_3d	81.70	5.607	8.000	0.0006	1421074	60.58	226.006	62.69	130.577
1G06	BASE	10y_3d	73.01	4.689	8.000	0.0003	924327	60.97	134.531	63.30	82.353
1G06	BASE	25y_3d	78.00	5.259	8.000	0.0005	1151037	60.84	189.710	63.47	122.667
1G07	BASE	100y_3d	81.70	5.608	8.000	0.0020	47730	62.69	130.577	60.92	51.658
1G07	BASE	10y_3d	73.01	4.690	8.000	0.0012	44317	63.30	82.353	60.88	39.363
1G07	BASE	25y_3d	78.00	5.259	8.000	0.0021	46433	63.47	122.667	60.90	47.588
1G08	BASE	100y_3d	81.31	5.607	8.000	0.0004	85443	60.92	51.658	60.94	41.608
1G08	BASE	10y_3d	72.95	4.686	8.000	0.0003	78535	60.88	39.363	60.85	31.767
1G08	BASE	25y_3d	77.98	5.259	8.000	0.0004	82828	60.90	47.588	60.89	38.576
1G09	BASE	100y_3d	81.31	5.607	8.000	0.0004	2545866	61.17	212.263	61.40	81.024
1G09	BASE	10y_3d	72.95	4.686	8.000	0.0003	1709206	61.17	124.921	61.79	52.660
1G09	BASE	25y_3d	77.98	5.259	8.000	0.0004	2123971	61.15	175.593	63.39	71.271
1G10	BASE	100y_3d	81.31	5.607	8.000	0.0012	87967	61.40	81.024	62.71	56.281
1G10	BASE	10y_3d	72.95	4.686	8.000	0.0007	84212	61.79	52.660	61.87	37.035
1G10	BASE	25y_3d	77.97	5.259	8.000	0.0010	86548	63.39	71.271	63.34	52.725
1G11	BASE	100y_3d	81.31	5.608	8.000	0.0012	51743	62.71	56.281	104.22	29.399
1G11	BASE	10y_3d	72.94	4.686	8.000	0.0007	49402	61.87	37.035	99.41	32.934
1G11	BASE	25y_3d	77.97	5.259	8.000	0.0011	50858	63.34	52.725	98.21	29.953
1G13	BASE	100y_3d	70.60	5.914	8.000	0.0009	9611	104.22	29.399	104.23	29.465
1G13	BASE	10y_3d	68.46	4.722	8.000	0.0005	9919	99.41	32.934	99.41	33.056
1G13	BASE	25y_3d	69.18	5.459	8.000	0.0010	9761	98.21	29.953	98.20	30.030
2A15	BASE	100y_3d	76.67	6.339	8.000	0.0008	2631643	60.50	413.275	61.88	20.813
2A15	BASE	10y_3d	76.67	5.193	8.000	0.0004	1679781	60.50	229.660	99.61	15.856
2A15	BASE	25y_3d	76.67	5.917	8.000	0.0006	2272527	60.50	333.723	61.84	16.599
2A17	BASE	100y_3d	76.67	6.339	8.000	0.0007	3003974	60.50	454.243	61.10	62.593
2A17	BASE	10y_3d	76.67	5.193	8.000	0.0003	2003975	60.50	256.922	99.40	55.599
2A17	BASE	25y_3d	76.67	5.917	8.000	0.0006	2626692	60.50	368.585	61.09	55.967

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-1 MAX STAGE REPORT
 TABLE II-A-6
 *****Basin Max. Report*****

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
2C16	BASE	100y_3d	69.26	6.635	8.000	-0.0030	996118	60.58	176.878	60.39	24.708
2C16	BASE	10y_3d	68.64	5.385	8.000	-0.0032	549898	60.67	108.121	60.69	27.096
2C16	BASE	25y_3d	69.01	6.139	8.000	-0.0032	819131	60.67	147.279	60.45	26.116
2C17	BASE	100y_3d	69.27	6.633	8.000	0.0010	383911	60.50	162.518	61.73	62.710
2C17	BASE	10y_3d	68.67	5.383	8.000	0.0005	337243	60.58	112.017	61.90	45.990
2C17	BASE	25y_3d	69.03	6.137	8.000	0.0008	360187	60.50	141.669	61.92	56.654
2C18	BASE	100y_3d	69.31	6.629	8.000	0.0010	1268079	60.75	383.573	61.32	167.372
2C18	BASE	10y_3d	68.74	5.379	8.000	0.0005	819078	60.75	231.195	61.55	110.082
2C18	BASE	25y_3d	69.10	6.133	8.000	0.0008	1089996	60.75	318.609	61.41	143.900
2C19	BASE	100y_3d	69.55	6.615	8.000	0.0008	1026197	60.95	282.752	62.62	65.794
2C19	BASE	10y_3d	69.00	5.365	8.000	0.0006	1011002	61.03	172.929	61.57	66.655
2C19	BASE	25y_3d	69.42	6.119	8.000	0.0007	1020170	60.97	236.621	60.82	65.095
2C20	BASE	100y_3d	69.73	6.601	8.000	0.0014	30281	62.62	65.794	63.26	63.224
2C20	BASE	10y_3d	69.13	5.352	8.000	0.0013	27607	61.57	66.655	61.56	63.274
2C20	BASE	25y_3d	69.70	6.106	8.000	0.0017	29221	60.82	65.095	60.82	59.444
FV01	BASE	100y_3d	75.16	6.464	8.000	0.0010	969951	61.65	242.184	63.42	351.776
FV01	BASE	10y_3d	71.96	5.379	8.000	0.0005	247795	63.22	126.240	64.41	273.272
FV01	BASE	25y_3d	75.03	6.109	8.000	0.0007	705804	62.53	206.957	64.18	328.744
FV02	BASE	100y_3d	75.23	6.465	8.000	0.0007	3331693	61.74	325.348	61.99	205.063
FV02	BASE	10y_3d	71.89	5.384	8.000	0.0003	869259	62.81	162.872	63.42	113.557
FV02	BASE	25y_3d	75.11	6.110	8.000	0.0005	2432691	62.25	261.473	62.59	185.783
FV03	BASE	100y_3d	75.25	6.466	8.000	0.0007	4273977	61.00	279.821	62.43	114.044
FV03	BASE	10y_3d	71.87	5.385	8.000	0.0003	1093337	61.92	137.169	63.72	66.606
FV03	BASE	25y_3d	75.13	6.111	8.000	0.0005	3113166	61.42	215.217	62.77	104.505
NPA	BASE	100y_3d	82.94	6.784	8.000	0.0005	23973720	61.92	763.059	120.00	49.324
NPA	BASE	10y_3d	78.33	6.147	8.000	0.0003	14177631	63.50	365.773	109.82	60.661
NPA	BASE	25y_3d	81.17	6.542	8.000	0.0004	20246292	62.42	580.957	120.00	56.601
UB02	BASE	100y_3d	83.29	6.502	6.000	0.0005	1159137	60.08	40.006	120.00	4.614
UB02	BASE	10y_3d	73.71	5.446	6.000	0.0002	423028	60.08	25.570	60.08	3.005
UB02	BASE	25y_3d	79.86	6.193	6.000	0.0004	943507	60.08	33.799	94.26	5.631
UB04	BASE	100y_3d	83.24	6.503	8.000	0.0005	533869	60.08	43.874	120.00	7.058
UB04	BASE	10y_3d	73.68	5.446	8.000	0.0002	333109	60.08	29.927	60.04	5.966
UB04	BASE	25y_3d	79.78	6.193	8.000	0.0004	475074	60.08	38.039	94.21	8.702
UB06	BASE	100y_3d	82.56	6.503	8.000	0.0005	543170	60.09	51.222	120.00	9.639
UB06	BASE	10y_3d	73.63	5.446	8.000	0.0002	342267	60.10	35.340	60.12	9.844
UB06	BASE	25y_3d	78.91	6.196	8.000	0.0004	484714	60.08	44.637	94.17	11.826
UB07	BASE	100y_3d	81.51	6.505	8.000	0.0012	60710	120.00	9.639	60.17	37.622
UB07	BASE	10y_3d	73.60	5.446	8.000	-0.0004	56182	60.12	9.844	108.29	21.441
UB07	BASE	25y_3d	77.94	6.200	8.000	0.0006	59759	94.17	11.826	60.12	27.930

SOUTH BROWARD DRAINAGE DISTRICT
BASIN S-1 MAX STAGE REPORT
TABLE II-A-6
*****Basin Max. Report*****

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
UB08	BASE	100y_3d	81.50	6.505	8.000	0.0006	1049724	60.17	70.352	120.00	15.042
UB08	BASE	10y_3d	73.60	5.446	8.000	0.0005	639320	108.56	67.009	118.00	36.948
UB08	BASE	25y_3d	77.93	6.200	8.000	0.0005	933219	118.35	64.376	120.00	26.049
UB09	BASE	100y_3d	76.08	6.521	8.000	0.0007	60042	120.00	15.042	104.74	23.512
UB09	BASE	10y_3d	73.55	5.446	8.000	-0.0007	60042	118.00	36.948	117.74	38.503
UB09	BASE	25y_3d	74.78	6.223	8.000	-0.0007	60042	120.00	26.049	120.00	28.144
UB11	BASE	100y_3d	76.07	6.522	8.000	0.0007	721212	109.65	115.396	120.00	83.469
UB11	BASE	10y_3d	73.55	5.446	8.000	0.0003	448704	85.06	103.260	110.37	71.758
UB11	BASE	25y_3d	74.77	6.224	8.000	0.0006	645691	120.00	113.735	120.00	86.820
UB12	BASE	100y_3d	75.62	6.521	8.000	0.0010	43479	120.00	83.469	120.00	83.729
UB12	BASE	10y_3d	72.99	5.436	8.000	0.0011	42297	110.37	71.758	110.35	72.100
UB12	BASE	25y_3d	74.49	6.223	8.000	0.0019	43154	120.00	86.820	120.00	87.092
UB13	BASE	100y_3d	75.66	6.520	8.000	0.0009	369321	60.08	111.960	120.00	85.592
UB13	BASE	10y_3d	72.97	5.435	8.000	0.0009	230623	61.08	101.724	110.16	73.433
UB13	BASE	25y_3d	74.54	6.223	8.000	0.0009	331251	61.23	128.978	120.00	88.499
UD02	BASE	100y_3d	75.29	6.519	8.000	0.0008	260509	60.20	109.266	120.00	98.111
UD02	BASE	10y_3d	72.46	5.421	8.000	0.0003	204808	60.25	81.392	108.84	82.304
UD02	BASE	25y_3d	74.25	6.222	8.000	0.0006	245423	120.00	96.461	120.00	97.860
UD04	BASE	100y_3d	75.25	6.493	8.000	0.0008	259085	60.32	98.137	120.00	98.896
UD04	BASE	10y_3d	72.29	5.401	8.000	0.0004	203702	108.84	82.304	116.17	91.061
UD04	BASE	25y_3d	74.58	6.169	8.000	0.0005	242623	120.00	97.860	120.00	98.538
UD06	BASE	100y_3d	75.14	6.466	8.000	0.0050	12747	62.01	360.149	61.15	222.596
UD06	BASE	10y_3d	71.97	5.380	8.000	0.0050	12415	64.41	296.598	61.11	124.023
UD06	BASE	25y_3d	75.01	6.110	8.000	0.0050	12638	61.20	318.583	61.30	184.904
UD09	BASE	100y_3d	74.74	6.443	8.000	0.0007	513047	60.88	244.696	61.02	186.989
UD09	BASE	10y_3d	71.88	5.355	8.000	0.0003	402738	60.91	138.220	106.31	104.755
UD09	BASE	25y_3d	74.70	6.078	8.000	0.0004	476050	61.04	201.393	61.09	152.824
UD11	BASE	100y_3d	74.35	6.424	8.000	0.0006	255644	60.78	208.939	60.79	180.718
UD11	BASE	10y_3d	71.58	5.333	8.000	0.0003	200323	60.74	115.150	106.20	106.434
UD11	BASE	25y_3d	74.35	6.049	8.000	0.0004	236656	60.75	169.899	60.91	145.612
UD13	BASE	100y_3d	73.99	6.404	8.000	0.0005	763680	60.28	216.751	119.44	145.313
UD13	BASE	10y_3d	71.24	5.308	8.000	0.0003	597112	60.25	121.875	93.10	110.842
UD13	BASE	25y_3d	73.99	6.019	8.000	0.0004	705149	60.26	178.448	96.01	133.902
UD14	BASE	100y_3d	73.77	6.393	8.000	0.0005	33725	119.44	194.461	119.44	183.114
UD14	BASE	10y_3d	71.16	5.303	8.000	0.0006	31957	106.10	170.713	106.08	171.017
UD14	BASE	25y_3d	73.79	6.006	8.000	0.0006	33085	120.00	181.817	120.00	182.080
UD15	BASE	100y_3d	73.35	6.333	8.000	0.0005	68883	60.44	224.102	60.44	213.276
UD15	BASE	10y_3d	70.52	5.211	8.000	0.0003	67155	93.46	200.741	93.48	197.102
UD15	BASE	25y_3d	73.35	5.926	8.000	0.0005	68260	120.00	202.728	120.00	203.324
UD21	BASE	100y_3d	73.34	6.330	8.000	0.0005	70465	60.44	213.276	119.45	202.439

SOUTH BROWARD DRAINAGE DISTRICT
BASIN S-1 MAX STAGE REPORT
TABLE II-A-6
*****Basin Max. Report*****

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
UD21	BASE	10y_3d	70.48	5.205	8.000	-0.0006	68810	93.48	197.102	93.48	197.232
UD21	BASE	25y_3d	73.33	5.921	8.000	-0.0006	69864	120.00	203.324	120.00	203.939
UF01	BASE	100y_3d	73.32	6.326	8.000	0.0005	2041278	61.58	280.697	120.00	209.068
UF01	BASE	10y_3d	70.43	5.197	8.000	0.0008	1060558	93.48	197.232	94.05	200.742
UF01	BASE	25y_3d	73.31	5.915	8.000	0.0008	1677449	61.67	240.208	120.00	210.827
UF02	BASE	100y_3d	72.42	6.201	8.000	0.0005	53845	120.00	209.068	120.00	209.430
UF02	BASE	10y_3d	69.49	5.054	8.000	0.0003	51140	94.05	200.742	94.07	201.196
UF02	BASE	25y_3d	72.24	5.768	8.000	0.0005	53003	120.00	210.827	120.00	211.219
UF03	BASE	100y_3d	72.24	6.180	8.000	0.0006	3284775	61.58	472.091	120.00	225.321
UF03	BASE	10y_3d	69.25	5.006	8.000	0.0003	2139810	61.66	324.789	94.27	218.361
UF03	BASE	25y_3d	71.46	5.737	8.000	0.0005	2802802	61.50	408.563	120.00	226.734
UF04	BASE	100y_3d	72.12	6.054	8.000	0.0006	1211378	60.08	295.087	60.04	230.870
UF04	BASE	10y_3d	69.05	4.901	8.000	0.0003	678862	94.27	218.361	94.27	223.120
UF04	BASE	25y_3d	70.51	5.607	8.000	0.0005	968273	60.08	261.491	120.00	231.171
UF05	BASE	100y_3d	72.17	6.034	8.000	0.0007	2402757	60.11	314.580	82.16	271.586
UF05	BASE	10y_3d	68.94	4.866	8.000	0.0003	1340198	105.21	254.735	93.55	264.037
UF05	BASE	25y_3d	70.28	5.583	8.000	0.0006	1911713	60.13	284.395	78.07	270.642
UF06	BASE	100y_3d	72.13	6.024	8.000	0.0024	73698	82.16	271.586	82.16	272.257
UF06	BASE	10y_3d	68.88	4.849	8.000	0.0003	70186	93.55	264.037	93.54	264.843
UF06	BASE	25y_3d	70.14	5.571	8.000	0.0023	72343	78.07	270.642	78.06	271.367
UH01	BASE	100y_3d	72.11	6.019	8.000	0.0008	925095	61.40	304.057	82.11	279.819
UH01	BASE	10y_3d	68.85	4.842	8.000	0.0003	529446	93.54	264.843	93.50	269.422
UH01	BASE	25y_3d	70.07	5.565	8.000	0.0006	740903	61.15	276.244	78.00	278.867
UH02	BASE	100y_3d	72.04	6.005	8.000	0.0007	1741155	82.11	279.819	82.08	294.125
UH02	BASE	10y_3d	68.80	4.823	8.000	-0.0004	959877	93.50	269.422	93.46	283.662
UH02	BASE	25y_3d	69.94	5.550	8.000	0.0006	1374320	78.00	278.979	77.98	291.853
UH03	BASE	100y_3d	70.79	5.922	8.000	0.0031	53702	82.08	294.125	82.08	294.631
UH03	BASE	10y_3d	68.50	4.736	8.000	0.0003	50613	93.46	283.662	93.46	280.499
UH03	BASE	25y_3d	69.24	5.469	8.000	0.0030	52522	77.98	291.853	77.97	292.418
UH04	BASE	100y_3d	70.64	5.914	8.000	0.0007	908294	60.29	319.923	120.00	311.070
UH04	BASE	10y_3d	68.46	4.722	8.000	0.0003	529086	93.46	312.360	93.48	313.343
UH04	BASE	25y_3d	69.18	5.459	8.000	0.0006	723145	120.00	308.174	120.00	311.618
UH05	BASE	100y_3d	70.47	5.905	8.000	0.0007	1677406	61.34	506.913	60.38	319.811
UH05	BASE	10y_3d	68.42	4.707	8.000	0.0005	929043	60.83	397.645	60.42	318.922
UH05	BASE	25y_3d	69.12	5.449	8.000	0.0006	1309251	60.75	454.465	60.33	319.582
UH06	BASE	100y_3d	70.48	5.788	8.000	-0.0050	9628	60.38	319.811	55.30	317.520
UH06	BASE	10y_3d	68.43	4.590	8.000	-0.0050	9628	60.42	318.922	59.80	317.520
UH06	BASE	25y_3d	69.12	5.332	8.000	-0.0050	9628	60.33	319.582	57.32	317.520
UH07	BASE	100y_3d	0.00	2.500	8.000	0.0000	0	55.30	317.520	0.00	0.000
UH07	BASE	10y_3d	0.00	2.500	8.000	0.0000	0	59.80	317.520	0.00	0.000

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-1 MAX STAGE REPORT
 TABLE II-A-6
 *****Basin Max. Report*****

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
UH07	BASE	25y_3d	0.00	2.500	8.000	0.0000	0	57.32	317.520	0.00	0.000

TABLE II-A-7

BASIN S-1

72-HOUR NODAL STAGE REPORT

10-YEAR, 3-DAY STORM

25-YEAR, 3-DAY STORM

100-YEAR, 3-DAY STORM

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-1 72 HR NODAL STAGE REPORT FOR 10 YR 3 DAY STORM
 TABLE II-A-7
 *****Basin Max. Report*****

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10y_3d	UB08	BASE	71.83	5.431	8.000	633600	0.671	-8.144	-45.6	-33.8
10y_3d	UB09	BASE	71.83	5.437	8.000	60042	-8.144	-8.359	-33.8	-59.2
10y_3d	UB11	BASE	71.83	5.437	8.000	446254	26.459	24.827	9.3	-0.2
10y_3d	UB12	BASE	71.83	5.430	8.000	42291	24.827	24.694	-0.2	46.0
10y_3d	UB13	BASE	71.83	5.430	8.000	229971	29.460	28.741	80.8	23.2
10y_3d	UD02	BASE	71.83	5.418	8.000	204661	41.853	41.402	47.0	37.2
10y_3d	UD04	BASE	71.83	5.399	8.000	203633	42.824	40.273	46.5	98.1
10y_3d	UD06	BASE	71.83	5.380	8.000	12415	-63.587	90.013	247.6	38.5
10y_3d	UD09	BASE	71.83	5.355	8.000	402738	91.050	86.499	47.0	118.7
10y_3d	UD11	BASE	71.83	5.332	8.000	200317	87.401	87.452	126.1	108.2
10y_3d	UD13	BASE	71.83	5.308	8.000	597012	88.494	88.846	116.7	61.5
10y_3d	UD14	BASE	71.83	5.302	8.000	31956	130.557	130.579	112.8	145.3
10y_3d	UD15	BASE	71.83	5.207	8.000	67151	163.736	163.835	217.0	148.9
10y_3d	UD21	BASE	71.83	5.200	8.000	68804	163.835	163.941	148.9	261.7
10y_3d	UF01	BASE	71.83	5.192	8.000	1058130	170.510	172.230	299.2	186.3
10y_3d	UF02	BASE	71.83	5.036	8.000	51071	172.230	172.401	186.3	214.3
10y_3d	UF03	BASE	71.83	4.983	8.000	2126793	204.508	213.111	342.1	238.6
10y_3d	UF04	BASE	71.83	4.875	8.000	671658	216.478	219.153	266.2	277.4
10y_3d	UF05	BASE	71.83	4.836	8.000	1324066	248.771	254.322	352.5	251.4
10y_3d	UF06	BASE	71.83	4.818	8.000	70092	254.322	254.624	251.4	404.2
10y_3d	UH01	BASE	71.83	4.809	8.000	522826	263.671	265.959	454.6	230.0
10y_3d	UH02	BASE	71.83	4.788	8.000	946042	268.065	272.286	245.7	410.9
10y_3d	UH03	BASE	71.83	4.693	8.000	50501	272.286	272.448	410.9	220.5
10y_3d	UH04	BASE	71.83	4.678	8.000	519924	279.734	281.522	252.8	444.0
10y_3d	UH05	BASE	71.83	4.661	8.000	910205	313.347	317.475	585.4	247.5
10y_3d	UH06	BASE	71.83	4.544	8.000	9628	317.475	317.520	247.5	458.4
10y_3d	UH07	BASE	71.83	2.500	8.000	0	317.520	0.000	458.4	0.0

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-1 72 HR NODAL STAGE REPORT FOR 25 YR 3 DAY STORM
 TABLE II-A-7
 *****Basin Max. Report*****

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25y_3d	UB08	BASE	71.83	6.060	8.000	879876	-25.656	-39.492	-7.1	-57.0
25y_3d	UB09	BASE	71.83	6.184	8.000	60042	-39.492	-40.070	-57.0	-65.5
25y_3d	UB11	BASE	71.83	6.185	8.000	635820	-20.662	-26.780	0.7	-14.0
25y_3d	UB12	BASE	71.83	6.192	8.000	43121	-26.780	-27.093	-14.0	-58.9
25y_3d	UB13	BASE	71.83	6.193	8.000	327402	-20.749	-23.116	-10.3	18.1
25y_3d	UD02	BASE	71.83	6.201	8.000	244348	74.610	73.584	83.7	66.7
25y_3d	UD04	BASE	71.83	6.143	8.000	241328	75.503	73.049	80.0	19.5
25y_3d	UD06	BASE	71.83	6.078	8.000	12628	-85.977	93.673	-76.9	213.3
25y_3d	UD09	BASE	71.83	6.051	8.000	473319	95.036	88.335	224.8	130.0
25y_3d	UD11	BASE	71.83	6.028	8.000	235558	89.519	88.300	140.0	145.9
25y_3d	UD13	BASE	71.83	6.002	8.000	702588	89.669	86.513	157.4	91.2
25y_3d	UD14	BASE	71.83	5.991	8.000	33062	119.044	118.909	158.3	187.1
25y_3d	UD15	BASE	71.83	5.916	8.000	68243	158.434	158.225	279.5	221.5
25y_3d	UD21	BASE	71.83	5.912	8.000	69850	158.225	158.015	221.5	311.3
25y_3d	UF01	BASE	71.83	5.906	8.000	1669587	166.946	162.057	365.8	247.6
25y_3d	UF02	BASE	71.83	5.768	8.000	53003	162.057	162.037	247.6	267.8
25y_3d	UF03	BASE	71.83	5.737	8.000	2802644	206.706	207.297	455.1	315.8
25y_3d	UF04	BASE	71.83	5.605	8.000	966945	211.723	212.573	353.1	343.1
25y_3d	UF05	BASE	71.83	5.579	8.000	1907937	241.436	243.423	446.5	331.9
25y_3d	UF06	BASE	71.83	5.567	8.000	72331	243.423	243.506	331.9	453.9
25y_3d	UH01	BASE	71.83	5.560	8.000	739014	255.941	256.827	527.8	331.8
25y_3d	UH02	BASE	71.83	5.545	8.000	1369846	259.596	261.386	352.9	464.1
25y_3d	UH03	BASE	71.83	5.455	8.000	52486	261.386	261.492	464.1	304.9
25y_3d	UH04	BASE	71.83	5.445	8.000	717212	271.337	271.371	361.7	505.7
25y_3d	UH05	BASE	71.83	5.433	8.000	1296425	314.772	317.500	713.3	411.8
25y_3d	UH06	BASE	71.83	5.316	8.000	9628	317.500	317.520	411.8	592.6
25y_3d	UH07	BASE	71.83	2.500	8.000	0	317.520	0.000	592.6	0.0

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-1 72 HR NODAL STAGE REPORT FOR 100 YR 3 DAY STORM
 TABLE II-A-7
 *****Basin Max. Report*****

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
100y_3d	UB08	BASE	71.83	6.354	8.000	992060	-28.609	-41.354	-45.5	-64.2
100y_3d	UB09	BASE	71.83	6.490	8.000	60042	-41.354	-41.699	-64.2	-69.4
100y_3d	UB11	BASE	71.83	6.490	8.000	713274	-8.791	-12.869	11.4	-31.1
100y_3d	UB12	BASE	71.83	6.492	8.000	43448	-12.869	-13.088	-31.1	1.1
100y_3d	UB13	BASE	71.83	6.492	8.000	365687	-5.555	-7.391	60.2	8.0
100y_3d	UD02	BASE	71.83	6.493	8.000	259162	49.812	48.662	93.0	89.8
100y_3d	UD04	BASE	71.83	6.468	8.000	257782	50.955	48.431	106.1	19.8
100y_3d	UD06	BASE	71.83	6.439	8.000	12739	-93.752	75.223	-239.0	261.1
100y_3d	UD09	BASE	71.83	6.422	8.000	510896	76.832	70.815	274.9	158.4
100y_3d	UD11	BASE	71.83	6.407	8.000	254771	72.214	71.172	170.4	170.6
100y_3d	UD13	BASE	71.83	6.390	8.000	761572	72.789	69.989	184.4	117.0
100y_3d	UD14	BASE	71.83	6.381	8.000	33706	96.718	96.604	193.9	217.4
100y_3d	UD15	BASE	71.83	6.325	8.000	68868	144.334	144.152	326.9	275.0
100y_3d	UD21	BASE	71.83	6.322	8.000	70453	144.152	143.968	275.0	352.7
100y_3d	UF01	BASE	71.83	6.318	8.000	2034274	154.674	149.465	420.5	293.5
100y_3d	UF02	BASE	71.83	6.200	8.000	53843	149.465	149.427	293.5	309.7
100y_3d	UF03	BASE	71.83	6.179	8.000	3284417	203.592	202.342	543.5	376.2
100y_3d	UF04	BASE	71.83	6.053	8.000	1211252	207.567	207.157	420.9	395.4
100y_3d	UF05	BASE	71.83	6.034	8.000	2402524	236.561	235.851	522.0	393.4
100y_3d	UF06	BASE	71.83	6.024	8.000	73697	235.851	235.834	393.4	497.3
100y_3d	UH01	BASE	71.83	6.019	8.000	925050	250.824	250.640	589.6	405.8
100y_3d	UH02	BASE	71.83	6.005	8.000	1741114	253.910	253.690	431.1	506.1
100y_3d	UH03	BASE	71.83	5.921	8.000	53699	253.690	253.716	506.1	367.7
100y_3d	UH04	BASE	71.83	5.913	8.000	907769	263.866	264.363	444.5	558.4
100y_3d	UH05	BASE	71.83	5.903	8.000	1676042	316.490	317.514	818.0	530.1
100y_3d	UH06	BASE	71.83	5.786	8.000	9628	317.514	317.520	530.1	693.1
100y_3d	UH07	BASE	71.83	2.500	8.000	0	317.520	0.000	693.1	0.0

SOUTH BROWARD DRAINAGE DISTRICT



BASINS S-2, S-7 and S-13



BASINS S-2, S-7, AND S-13

DESCRIPTION

Basins S-2, S-7, and S-13 are located in the east-central quadrant of the District and encompass a total area of 15.2 square miles. Collectively, these three basins are more than 80% developed, and most of the required water management areas in these basins are in place and operational.

Basin S-2 lies in the Cities of Miramar and Pembroke Pines. This 7.5 square mile basin is bordered on the east by Douglas Road, the north by Pines Boulevard, the west by Flamingo Road and the south by the Florida Turnpike Extension. This basin contains portions of several undeveloped parcels including the Pines City Center, Miramar Park of Commerce, Waterview/Foxcroft, Miramar Town Center, Sunbeam Development Corp. residential properties, and the Raintree Golf Course Re-development site. However, a large majority of the water management systems that serve these undeveloped parcels are in place and operational. The AdICPR model for Basins S-2, S-7, and S-13 was updated as part of this Facilities Report update.

Basin S-7 lies within the City of Pembroke Pines and encompasses 4.5 square miles. It is bordered on the east by Douglas Road, the north by Sheridan Street, the west by Flamingo Road and the south by Pines Boulevard. The basin is considered to be built-out and the only permitting activities will involve the re-development of previously developed parcels.

Basin S-13 is approximately 3.2 square miles and is located in the City of Pembroke Pines. It is bordered by Sheridan Street on the north, I-75 to the west, Flamingo Road on the east, and Pines Blvd. on the south. The sub-division of Pembroke Falls and CB Smith Park occupy the overwhelming majority of this basin. This basin is also considered to be built-out and the only permitting activities will involve the re-development of previously developed parcels.

The overall boundaries of the S-2, S-7, and S-13 basins and their existing facilities are shown on Figure II-B-1, Figure II-B-6, and Figure II-B-10, respectively, and the basin characteristics for these basins are shown in Table II-B-1.

Since 2013, the following improvements have been completed within the S-2, S-7, and S-13 basins:

S-2 Pump Station Improvements

- Installed an emergency by-pass and sluice gate.
- Rebuilt or replaced all three gear drives.
- Rebuilt one of the three Caterpillar diesel engines.
- Rebuilt all three stormwater pumps.
- Installed FabricForm revetment protection and slope stabilization along the Palm Avenue Canal upstream of the pump station.
- Regraded and improved the canal banks on the upstream and downstream sides of the pump station.

- Installed a downstream water level recorder.
- Upgraded the telemetry and control systems.
- Installed LED lighting.
- Modified the trash rack.

S-7 Pump Station Improvements

- Installed an emergency by-pass and sluice gate.
- Modified the trash rack.
- Rebuilt or replaced all three gear drives.
- Rebuilt all three Caterpillar diesel engines.
- Rebuilt all three stormwater pumps.
- Upgraded the telemetry and control systems.
- Regraded and improved the canal banks on the upstream and downstream sides of the pump station.
- Installed LED lighting.
- Installed cameras for security and operational purposes.
- Installed a downstream water level recorder.
- Replaced the existing generator with a new generator.

Basin-Wide Improvements

- Installed a 72" diameter pipe-liner at Palm Avenue and Johnson Street - Palm Avenue Canal (Culvert # 7-3).
- Repaired the drainage outfall system for the Hollybrook golf course community (Culvert 2-83).
- A portion of the fourth Basin 2 – Basin 7 interconnect was completed as part of the AMLI Miramar Residential development (48" RCP and open channel).
- Completed miscellaneous boat ramp improvements.
- Installed revetment stabilization at miscellaneous lake interconnects.
- Performed miscellaneous tree removal work throughout all three basins.
- Completed miscellaneous culvert inspections and culvert cleanings.
- Installed two water level recorders in Basin 13.

The following new developments and redevelopments have been completed:

- * MPOC 25, MPOC 29, MPOC 30, AMLI Miramar Residential, Estates of Mayfair, Raintree Redevelopment, Renaissance Charter School, Pembroke Pines City Center Apartments, Elite Health Care, Mirabella Commercial, Red Road Gas Station, Taco Bell, Miramar Business Center - Bldg D, Pembroke Pines City Center Phases 1 & 2, Springhill Suites, Miramar Fire Station 107, Pines Garden Apartments, City of Pembroke Pines Civic Center, Wawa, The Grove, Woodspring Suites, Fairfield Inn, PDQ Restaurant, Buffalo Wild Wings, Deer Creek Townhomes, 1771 Flamingo Road Business Center, and Centra Falls.

The following infrastructure improvements are proposed for the S-2, S-7, and S-13 basins:

- Continued dredging and deepening of SBDD primary and/or secondary canals.

- Continued hardening of lake banks and headwalls at critical lake interconnect locations.
- Continue to rehabilitate aging infrastructure (i.e.: primary drainage culverts), as needed.
- Installation of boat ramps for improved access by SBDD maintenance crews, as needed.
- Miscellaneous culvert repairs/replacements.

METHODOLOGY

Basins S-2, S-7, and S-13 have been analyzed as one large, interconnected basin. These are contiguous basins that are served by the same primary canals: SBDD Canals No. 2 and No. 3 (Palm Avenue and Flamingo Road Canals, respectively). Stormwater runoff is conveyed to these two primary canals which ultimately flow south to the SFWMD C-9 Canal through the SBDD S-2 and S-7 pump stations.

SBDD Canal No. 2 is located on the west side of Palm Avenue. It extends from the Miami-Dade County/Broward County Line north to Sheridan Street and serves both the S-2 Basin and S-7 Basin. Discharge from the SBDD Canal No. 2 into the SFWMD C-9 Canal is controlled through the District's S-2 Pump Station with a permitted discharge rate of 300 cfs. Water quality is provided behind the pump station, and the control elevation for the S-2 and S-7 Basins is maintained at 2.7' NGVD. Water quality requirements and discharge rates from the S-2 Basin are regulated by the SFWMD Permit # 06-00373-S.

SBDD Canal No. 3 is located to the west of Flamingo Road and extends from the Florida Turnpike Extension north to the District's northern boundary at Sheridan Street. The Flamingo Road Canal then continues further north (through the Central Broward Water Control District) and connects to the C-11 Canal. This canal runs along the boundary line of Basins S-2 and S-3 south of Pines Boulevard and along the boundary line of Basins S-7 and S-13 north of Pines Boulevard. SFWMD control structure G-87, located at the north end of Basins S-13/S-7, prevents the flow of stormwater from the Central Broward Water Control District, located north of Sheridan Street, into SBDD Canal No. 3. The District's S-7 Pump Station is located on SBDD Canal No. 3, approximately one half mile north of the SFWMD C-9 Canal (within Basin S-12). This facility controls discharge into the SFWMD C-9 Canal and has a permitted discharge rate of 222 cfs. Water quality is provided behind the S-7 Pump Station and a control elevation of 2.7' NGVD is maintained. Water quality requirements and discharge rates from the S-7 Basin are regulated by the SFWMD Permit # 06-00295-S.

Basin S-13 discharges by gravity into SBDD Canal No. 3 through a control structure from the Pembroke Falls development. A control elevation of 3.0' is maintained for the S-13 Basin.

Figures II-B-1, II-B-6, and II-B-10 depict the existing facilities in Basin S-2, S-7, and S-13 respectively; and Tables II-B-2, II-B-7, and II-B-11 provides the corresponding existing culvert schedule for each basin. Figures II-B-2, II-B-3, II-B-4, and II-B-5 show the existing flood gates, control structures, staff gauges, and fish guards in Basin S-2 with corresponding Schedule Tables II-B-3, II-B-4, II-B-5, and II-B-6. Figures II-B-7, II-B-8, and

II-B-9 show the existing control structures, staff gauges and fish guards in Basin S-7 with corresponding Schedule Tables II-B-8, II-B-9 and II-B-10. Figures II-B-11, II-B-12, and II-B-13 show the existing flood gates, control structures, and staff gauges in Basin S-13 with corresponding Schedule Tables II-B-12, II-B-13, and II-B-14.

MODEL ANALYSIS

Basins S-2, S-7, and S-13 have a number of sub-basins served by a series of interconnected lakes. All the sub-basins discharge to the SBDD primary Canal Nos. 2 and 3 through control structures and/or open culverts.

The 2005 AdICPR model indicated that peak stages for the 10-year, 3-day and the 100-year, 3-day storm events in the sub-basins east of the Palm Avenue canal in both Basins S-2 and S-7 were close to the permitted flood criteria for these basins. Since 2005 the District has modified a majority of the control structures (i.e.: removed weirs) in these sub-basins allowing greater discharge to the Palm Avenue Canal and helping to lower stages and reduce the flood durations.

Based on the 2013 AdICPR model results, all properties within Basins S-2, S-7 and S-13 meet the District's adopted Level of Service.

Currently, the District's Canal No. 2 and Canal No. 3 are interconnected in two locations north of Pines Boulevard. A third interconnect is in place in the south end of the basin (north of the Homestead Turnpike Extension). A fourth interconnect is planned through the central portion of these basins between Miramar Boulevard and Miramar Parkway. The majority of the infrastructure for this fourth interconnect has been constructed and the ultimate connection will be completed as part of the build-out of Section 25.

The 2013 model results indicate that the Palm Avenue and Flamingo Road Canal sections are not restrictive in conveying stormwater to the S-2 and S-7 pump stations. It is recommended that any future culvert crossing within either the Palm Avenue Canal or the Flamingo Road Canal be properly analyzed to assure minimum flood impact to the upstream area of the proposed crossing.

Figure II-B-15 shows the overall AdICPR nodal diagram for Basins S-2, S-7, and S-13 and Figures II-B-16, II-B-17, and II-B-18 show the individual AdICPR nodal diagrams for Basin S-2, S-7, and S-13 respectively. Tables II-B-15 and II-B-16 list the AdICPR output data for maximum stages and 72-hour stages at each node within all three basins.

SUMMARY & RECOMMENDATIONS

The model results indicate that Basins S-2, S-7, and S-13 are all adequately served by the existing infrastructure in these basins and all three basins meet the District's adopted Level of Service for the 10-year and 100-year storm events.

The following basin improvements are recommended to lower peak stages and to further improve the conveyance capacity between Basin S-2 and Basin S-7:

- The completion of a fourth basin interconnect (Basin 2 to Basin 7) between SBDD Canal No. 2 and SBDD Canal No. 3, through Basin S-2. The remaining portion of this interconnect will be completed as part of the proposed Miramar Station project (NE corner of Miramar Parkway & Flamingo Road).
- Installation of a Basin inter-connect between Basins S-3 and S-7 with a manual sluice gate and telemetry for operations during emergency situations.
- Any future culvert crossing on either the Palm Avenue Canal (SBDD Canal S-2) or the Flamingo Road Canal (SBDD Canal S-3) should be properly analyzed to ensure that adequate conveyance is maintained for the 100-year storm event.
- All undeveloped areas and redevelopment projects to provide a minimum of 20% water management area, or equivalent.

TABLE II-B-1

**SUMMARY OF BASIN CHARACTERISTICS
BASINS S-2, S-7 & S-13**

GENERAL

TOTAL BASIN AREA	(AC)	9550
TOTAL PERVIOUS AREA	(AC)	3670 (44%)
TOTAL IMPERVIOUS AREA	(AC)	4130 (38%)
LAKE AREA	(AC)	1750 (18%)
DESIGN CONTROL ELEVATION		
Basins S-2 and S-7	(FT NGVD)	2.70
Basin S-13	(FT NGVD)	3.00
10-YEAR 3-DAY FLOOD ELEVATION (MINIMUM ROAD CROWN)	(FT NGVD)	6.00
100-YEAR 3-DAY FLOOD ELEVATION (MINIMUM FINISHED FLOOR ELEVATION)	(FT NGVD)	7.50

Note:

All undeveloped areas are required to have a minimum of 20% water management area and to comply with all SFWMD and SBDD Criteria.

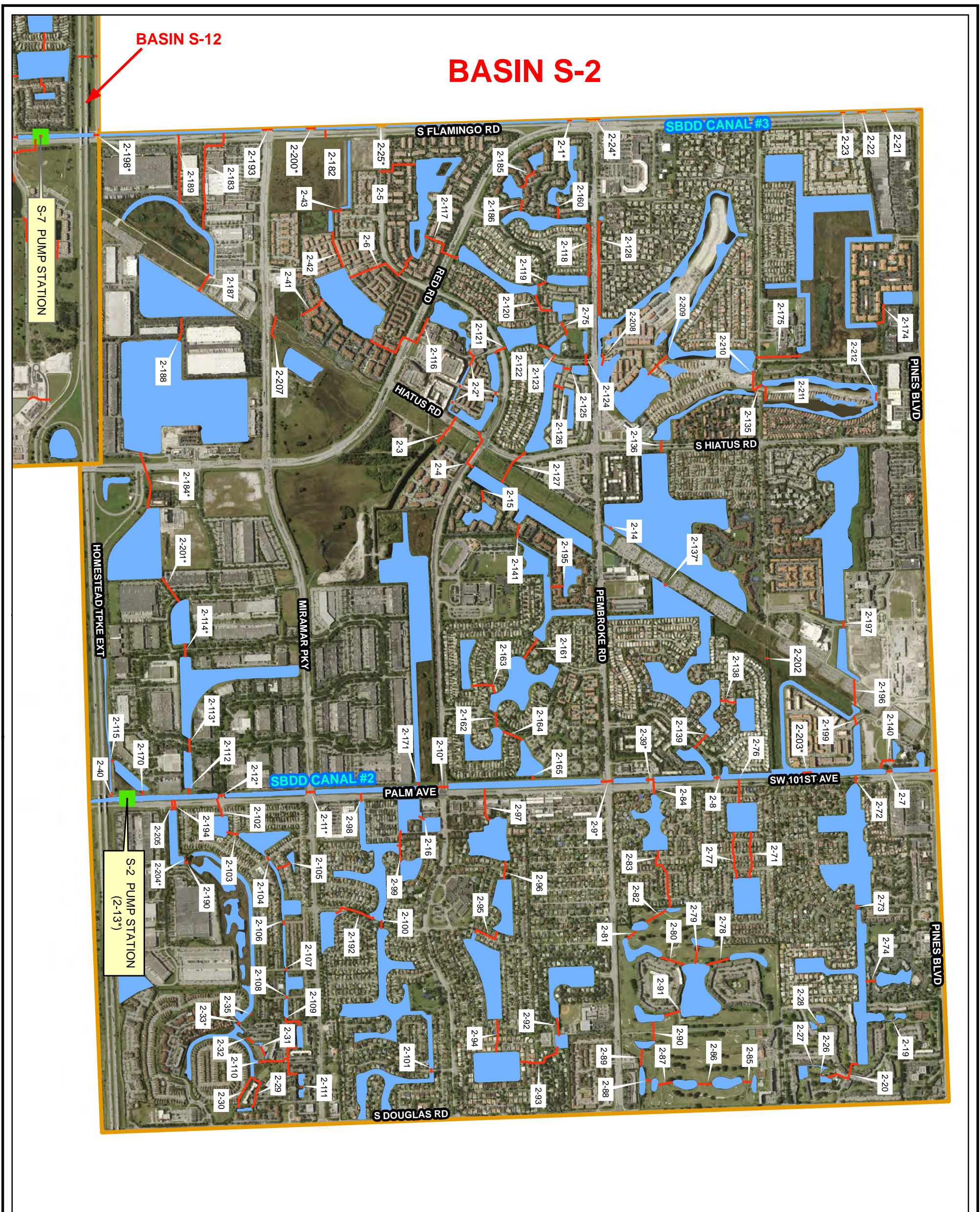
S.F.W.M.D. PERMIT CONDITIONS

(PERMIT #'S 06-00295-S, 06-0373-S & 06-00898-S)

DISCHARGE CONTROL STRUCTURE		PUMP STA
DISCHARGE CAPACITY		
SBDD Canal No 2 (Palm Avenue Canal)	(CFS)	300
SBDD Canal No 3 (Flamingo Road Canal)	(CFS)	222
TOTAL	(CFS)	522
RECEIVING WATER		SFWMD C-9

CANAL

CANAL NAME		SBDD No 2
LENGTH	(FT)	21,000
CANAL NAME		SBDD No 3
LENGTH	(FT)	26,500
MANNING'S "n"		0.033



**SOUTH BROWARD DRAINAGE DISTRICT
BASIN: S-2 EXISTING FACILITIES MAP**

2019 UPDATE

Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™

Legend

- SFWMD Canal
- Culverts
- SBDD Pump Station
- Water Bodies



0 1,000 2,000 4,000 Feet

FIGURE II-B-1

TABLE II-B-2

BASIN S-2 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
2-1.1	Flamingo Square	Flamingo Rd. & (S) of Pembroke Rd.	96	RCP	CIRC.	73	
2-1.2	Flamingo Square	Flamingo Rd. & (S) of Pembroke Rd.	96	RCP	CIRC.	73	
2-1.3	Flamingo Square	Flamingo Rd. & (S) of Pembroke Rd.	96	RCP	CIRC.	73	
2-2	Miramar Town Center	(W) of Hiatus Rd. & (S) of Miramar Blvd.	54	RCP	CIRC.	298	
2-2.1	Miramar Town Center	East of Culvert 2-2	48	RCP	CIRC.	41	
2-2.2	Miramar Town Center	East of culvert 2-2.1	48	RCP	CIRC.	41	
2-2.3	Miramar Town Center	Miramar Blvd. & (W) of Hiatus Rd.	54	RCP	CIRC.	66	
2-3	Miramar Town Center / MPOC VI	Hiatus Rd. & (S) of Miramar Blvd.	54	RCP	CIRC.	517	
2-4	Miramar Town Center / Miramar Commons	Miramar Blvd. & Hiatus Rd.	48	RCP	CIRC.	727	
2-5	Aventine / Martinique	Miramar Blvd. & (E) of Flamingo Rd.	48	RCP	CIRC.	684	
2-6	Aventine / Alexan	Miramar Blvd. & (S) of Red Rd.	48	RCP	CIRC.	1340	
2-7	Pembroke Pines City Hall	Palm Ave. & SW 4th St.	120	CMP	CIRC.	110	
2-8	The Landings	Palm Ave. & SW 11th St.	120	CMP	CIRC.	103	
2-9.1	Palm Ave. & Pembroke Rd.	Palm Ave. & Pembroke Rd.	96	CMP	CIRC.	206	
2-9.2	Palm Ave. & Pembroke Rd.	Palm Ave. & Pembroke Rd.	72	CMP	CIRC.	206	
2-9.3	Palm Ave. & Pembroke Rd.	Palm Ave. & Pembroke Rd.	72	CMP	CIRC.	206	
2-10.1	Palm Ave. & Miramar Blvd.	Palm Ave. & Miramar Blvd.	96	RCP	CIRC.	184	
2-10.2	Palm Ave. & Miramar Blvd.	Palm Ave. & Miramar Blvd.	96	RCP	CIRC.	184	
2-10.3	Palm Ave. & Miramar Blvd.	Palm Ave. & Miramar Blvd.	96	RCP	CIRC.	184	
2-11.1	Palm Ave. & Miramar Pkwy.	Palm Ave. & Miramar Pkwy.	96	RCP	CIRC.	155	
2-11.2	Palm Ave. & Miramar Pkwy.	Palm Ave. & Miramar Pkwy.	96	RCP	CIRC.	155	
2-12.1	Miramar Park of Commerce	Palm Ave. & USA Today Way	96	RCP	CIRC.	115	
2-12.2	Miramar Park of Commerce	Palm Ave. & USA Today Way	96	RCP	CIRC.	115	
2-13.1	S-2 Pump Station	4000 SW 101st Ave.	42	STEEL	CIRC.	5	45K GPM, Pump # 1
2-13.2	S-2 Pump Station	4000 SW 101st Ave.	42	STEEL	CIRC.	5	45K GPM, Pump # 2
2-13.3	S-2 Pump Station	4000 SW 101st Ave.	42	STEEL	CIRC.	5	45K GPM, Pump # 3
2-13.4	S-2 Pump Station	4000 SW 101st Ave.	42 x 60	CONC	RECT.	1	Flood Gate
2-14	COPP Charter School - East Campus	Pembroke Rd. & (E) of Hiatus Rd.	36	RCP	CIRC.	48	Control Structure
2-15	Residences at Miramar Lakes	(N) of Miramar Blvd. & Preserve Way	48 & 38 X 60	RCP	CIRC.	194	
2-16	Mirabella	(E) of Palm Ave. & (S) of Miramar Blvd.	48	RCP	CIRC.	116	
2-19	Hollybrook Golf Course	Hollybrook Golf Course	48	CMP	CIRC.	12	
2-20	Hollybrook Golf Course	Hollybrook Golf Course	36	CMP	CIRC.	695	

TABLE II-B-2

BASIN S-2 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
2-21	Flamingo Plaza	Flamingo Rd. & SW 1st St.	144 X 120	CMP	ELLIP.	80	
2-22	Flamingo Plaza	Flamingo Rd. & SW 2nd St.	144 X 120	CMP	ELLIP.	146	
2-23	Flamingo Plaza	Flamingo Rd. & SW 4th St.	144 X 120	CMP	ELLIP.	81	
2-24.1	Flamingo Rd. & Pembroke Rd.	Flamingo Rd. & Pembroke Rd.	96	RCP	CIRC.	235	
2-24.2	Flamingo Rd. & Pembroke Rd.	Flamingo Rd. & Pembroke Rd.	96	RCP	CIRC.	235	
2-24.3	Flamingo Rd. & Pembroke Rd.	Flamingo Rd. & Pembroke Rd.	96	RCP	CIRC.	235	
2-25.1	Monarch Lakes	Flamingo Rd. & Monarch Lakes Blvd. - (E) Pipe	96	RCP	CIRC.	158	
2-25.2	Monarch Lakes	Flamingo Rd. & Monarch Lakes Blvd. - (C) Pipe	96	RCP	CIRC.	158	
2-25.3	Monarch Lakes	Flamingo Rd. & Monarch Lakes Blvd. - (W) Pipe	96	RCP	CIRC.	158	
2-26	Hollybrook Golf Course	Hollybrook Golf Course	48	CMP	CIRC.	26	
2-27	Hollybrook Golf Course	Hollybrook Golf Course	48	CMP	CIRC.	9	
2-28	Hollybrook Golf Course	Hollybrook Golf Course	48	CMP	CIRC.	31	
2-29	Villas De Mallroca / Waterview - North Pipe	Villas De Mallorca / Waterview	36 & 48	RCP/CMP	CIRC.	587	
2-30	Villas De Mallroca / Waterview - South Pipe	Villas De Mallorca / Waterview	48 & 60	RCP	CIRC.	557	
2-31	Waterview	Waterview	30	CMP	CIRC.	171	
2-32	Waterview	Waterview	36	CMP	CIRC.	138	
2-33.1	Waterview	Waterview	60	RCP	CIRC.	65	
2-33.2	Waterview	Waterview	60	RCP	CIRC.	65	
2-35	Waterview	Waterview	30	RCP	CIRC.	26	
2-39.1	7-11 / CVS Pharmacy	Palm Ave. & (N) of Pembroke Rd.	96	RCP	CIRC.	143	
2-39.2	7-11 / CVS Pharmacy	Palm Ave. & (N) of Pembroke Rd.	96	RCP	CIRC.	143	
2-40	Miramar Park of Commerce	(S) of S-2 Pump Station	60	RCP	CIRC.	70	
2-41	Milano	SW 119th Ave. & SW 30th St.	48	RCP	CIRC.	467	
2-42	Montclair / Martinique	Montclair Blvd. & (W) of SW 27th Ct.	72	RCP	CIRC.	623	
2-43	Martinique	2784 SW 121st Ave.	72	RCP	CIRC.	179	
2-71	Lakeside Key	SW 99th Ave. & SW 10th St.	24	CMP	CIRC.	775	
2-72	Tanglewood - Outfall	Palm Ave. & SW 4th St.	36	HDPE	CIRC.	142	
2-73	Tanglewood	SW 96th Ave. & SW 6th St.	60	CMP	CIRC.	76	
2-74	Palms of Pembroke	SW 94th Ave. & SW 5th St.	36	RCP	CIRC.	165	
2-75	Villages of Renaissance	SW 116th Way & (N) of SW 19th St.	48	RCP / CAP	CIRC.	256	
2-76	Lakeside Key	1000 SW 100th Terr.	12 & 30	CMP	CIRC.	386	Control Structure
2-77	Lakeside Key	SW 99th Ave. & SW 10th St.	24	CMP	CIRC.	777	

TABLE II-B-2

BASIN S-2 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
2-78	Hollybrook Golf Course	Hollybrook Golf Course	18	PVC	CIRC.	375	
2-79	Hollybrook Golf Course	Hollybrook Golf Course	18	PVC	CIRC.	299	
2-80	Hollybrook Golf Course	Hollybrook Golf Course	18	PVC	CIRC.	398	
2-81	Hollybrook Golf Course	Hollybrook Golf Course	18	PVC	CIRC.	191	
2-82	Hollybrook Golf Course	Hollybrook Golf Course	18	PVC	CIRC.	372	
2-83	Quincey Park	SW 97th Ave. & SW 14th Ct.	24 & 30	PVC	CIRC.	1077	
2-84	Quincey Park - Outfall	Palm Ave. & SW 15th St.	42	CMP	CIRC.	209	
2-85	Hollybrook Golf Course	Hollybrook Golf Course	12	PVC	CIRC.	152	
2-86	Hollybrook Golf Course	Hollybrook Golf Course	18	PVC	CIRC.	231	
2-87	Hollybrook Golf Course	Hollybrook Golf Course	18	PVC	CIRC.	241	
2-88	Hollybrook Golf Course	Hollybrook Golf Course	18	PVC	CIRC.	97	
2-89	Hollybrook Golf Course	Hollybrook Golf Course	18	PVC	CIRC.	280	
2-90	Hollybrook Golf Course	Hollybrook Golf Course	18	PVC	CIRC.	308	
2-91	Hollybrook Golf Course	Hollybrook Golf Course	18	PVC	CIRC.	269	
2-92	Amber Lakes	9201 SW 20th St.	42	RCP	CIRC.	304	
2-93	Estates of Lake Miramar / Amber Lakes	2002 SW 90th Way	34 X 24 & 36	RCP	VARIES	808	
2-94	Estates of Lake Miramar / Franklin Farms	2340 Dunhill Ave.	48	RCP	CIRC.	542	
2-95	Franklin Farms	2341 Fairmont Ave.	48	CMP	CIRC.	522	
2-96	Riverdale	2260 Riverdale Dr.	60	RCP	CIRC.	299	
2-97	Mirabella	Palm Ave. & SW 21st St.	48	RCP	CIRC.	536	
2-98	River Run - Outfall	Palm Ave. & SW 29th St.	48	RCP	CIRC.	148	
2-99	Riverdale South	2671 Forrest Dr.	36	RCP	CIRC.	558	
2-100	River Run	Fairmont Ave. & Encino St.	48	CMP	CIRC.	143	
2-101	Turtle Bay	2600 Buttonwood Dr.	48	RCP	CIRC.	79	
2-102	Hampshire Homes - Outfall	Palm Ave. & Marlberry Ln.	96 & 72	CMP / HDPE	CIRC.	312	
2-103	Hampshire Homes	9989 Nadina St.	60	RCP	CIRC.	200	
2-104	Hampshire Homes	9851 Ivy Way	54	CMP	CIRC.	78	
2-105	Hampshire Homes	9851 Fern Ln.	24	CMP	CIRC.	235	
2-106	Meadows of Miramar	3320 SW 96th Terr.	42	CMP	CIRC.	78	
2-107	Meadows of Miramar	Meadows Circle West & Fern Ln.	36	CMP	CIRC.	45	
2-108	Meadows of Miramar	Meadows Circle East & Fern Ln.	36	CMP	CIRC.	46	
2-109	Meadows of Miramar / Miramar Club	(S) of Miramar Pkwy. & (W) of Douglas Rd.	30	CMP	CIRC.	351	

TABLE II-B-2

BASIN S-2 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
2-110	Miramar Club / Waterview	(S) of Miramar Pkwy. & (W) of Douglas Rd.	48 & 60	RCP	CIRC.	1205	
2-111	Miramar Club	(S) of Miramar Pkwy. & (W) of Douglas Rd.	24	RCP	CIRC.	34	
2-112	Miramar Park of Commerce - Outfall	Palm Ave. & (S) of USA Today Way	LAND WEIR				Control Structure
2-113.1	Miramar Park of Commerce	3451 Commerce Pkwy.	48	CMP	CIRC.	216	
2-113.2	Miramar Park of Commerce	3451 Commerce Pkwy.	48	CMP	CIRC.	216	
2-114.1	Miramar Park of Commerce	Executive Way (S) of 3451 Executive Way	48	CMP	CIRC.	224	
2-114.2	Miramar Park of Commerce	Executive Way (S) of 3451 Executive Way	48	CMP	CIRC.	224	
2-115	Miramar Park of Commerce	Turnpike Swale (W) of S-2 Station	72	RCP	CIRC.	46	
2-116	Miramar Town Center / Alexan	(E) of Hiatus Rd. & Red Rd.	54	RCP	CIRC.	1450	
2-117	Villages of Renaissance / Aventine	(W) of Miramar Blvd. & Red Rd.	54	RCP	CIRC.	763	
2-118	Villages of Renaissance	Villages of Renaissance	48	RCP / CAP	CIRC.	873	
2-119	Villages of Renaissance	Villages of Renaissance	48	RCP	CIRC.	170	
2-120	Villages of Renaissance	Villages of Renaissance	48	RCP	CIRC.	445	
2-121	Miramar Town Center / Villages of Renaissance	(W) of Hiatus Rd. & Miramar Blvd.	54	RCP	CIRC.	217	
2-122	Villages of Renaissance	Villages of Renaissance	48	RCP	CIRC.	190	
2-123	Villages of Renaissance	Villages of Renaissance	48	RCP	CIRC.	131	
2-124	Villages of Renaissance	Villages of Renaissance	48	RCP	CIRC.	191	
2-125	Villages of Renaissance	Villages of Renaissance	48	RCP	CIRC.	141	
2-126	Villages of Renaissance	Villages of Renaissance	48	RCP	CIRC.	184	
2-127	Miramar Commons	Hiatus Rd. & (N) of Miramar Blvd.	48	RCP	CIRC.	644	
2-128	The Resorts at Pembroke Pines - Entrance	SW 118th Ave. & Pembroke Rd.	84	CAP	CIRC.	1540	
2-135	Raintree	SW 113th Way & Washington St.	32 X 60	CMP	ELLIP.	156	
2-136	Raintree - Outfall	Hiatus Rd. & SW 14th St.	96	CMP	CIRC.	194	
2-137.1	Woodbridge	FPL Access Rd. (N) of Pembroke Rd.	60	RCP	CIRC.	51	
2-137.2	Woodbridge	FPL Access Rd. (N) of Pembroke Rd.	60	RCP	CIRC.	51	
2-137.3	Woodbridge	FPL Access Rd. (N) of Pembroke Rd.	60	RCP	CIRC.	51	
2-138	Landings	SW 103rd Ave. & SW 12th St.	36	PVC	CIRC.	288	
2-139	Landings	(W) of Palm Ave. & SW 11th St.	84	RCP	CIRC.	316	
2-140	Pembroke Pines City Hall	Palm Ave. & SW 5th St.	24	RCP	CIRC.	324	
2-141	Residences of Miramar Lakes /Sports Park	(E) of Hiatus Rd. & (N) of Miramar Blvd.	48	RCP	CIRC.	241	
2-160	St. Andrews	12106 St. Andrews Pl.	48	RCP	CIRC.	193	
2-161	Avalon	Avalon Blvd. West & SW 21st St.	48	RCP	CIRC.	399	

TABLE II-B-2

BASIN S-2 EXISTING CULVERT SCHEDULE

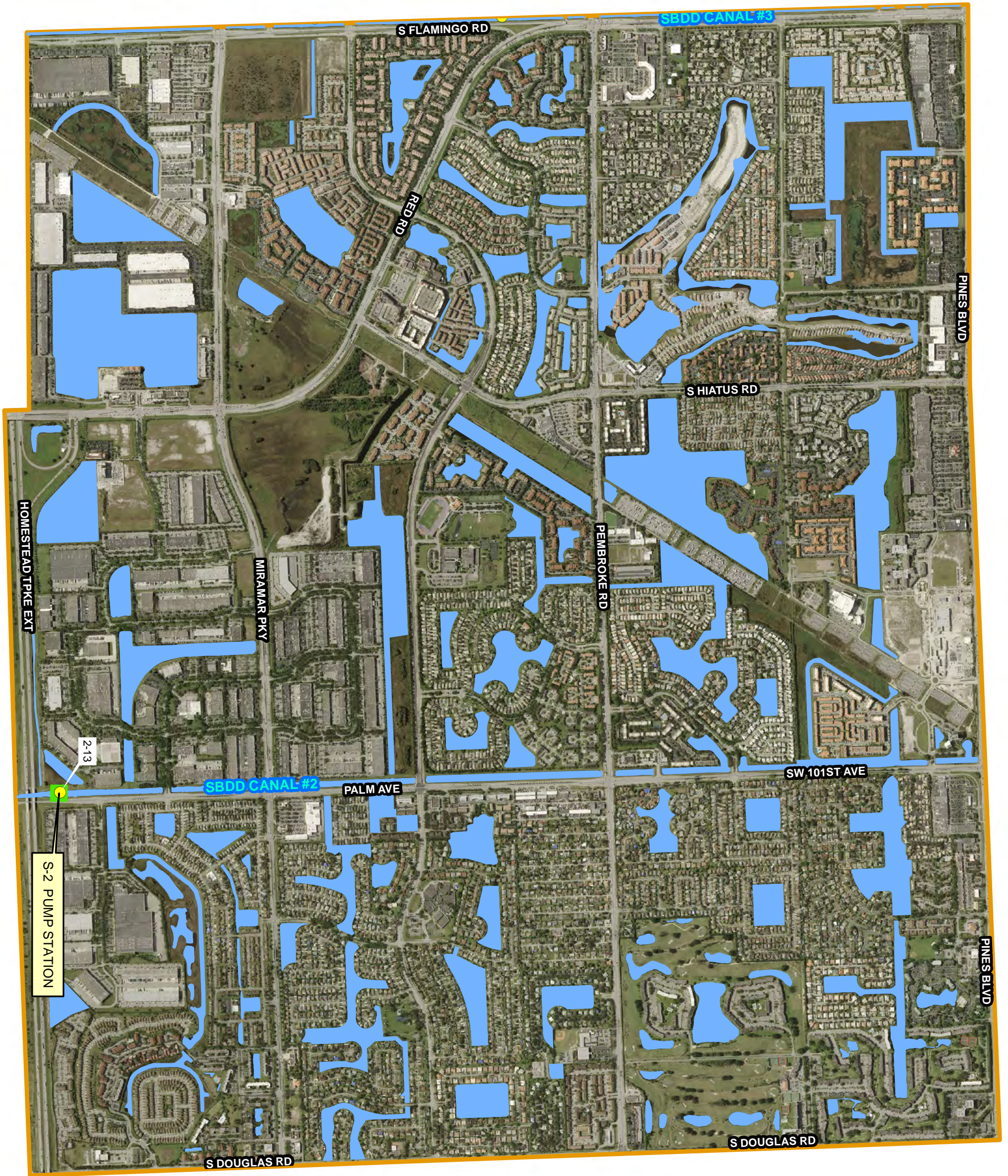
<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
2-162	Avalon	Avalon Blvd. East & (S) of SW 23rd Ct.	48	RCP	CIRC.	248	
2-163	Avalon	SW 103rd Way & SW 24th St.	48	RCP	CIRC.	483	
2-164	Avalon	Avalon Blvd. East & SW 23rd Ct.	48	RCP	CIRC.	351	
2-165	Avalon	Avalon Outfall at Palm Ave. Canal	48	RCP	CIRC.	75	
2-170	Miramar Park of Commerce	Palm Ave. (N) of S-2 Pump Station	LAND WEIR				Control Structure
2-171	Miramar Park of Commerce - Phase 3	Palm Ave. & (S) of Miramar Blvd.	60	RCP	CIRC.	47	
2-174	Sarah Park	Best Buy Lake to Wetlands Lake	48	RCP	CIRC.	426	
2-175	Sarah Park	Sarah Park Outfall to Raintree	72	RCP	CIRC.	737	Control Structure
2-182	Monarch Lakes - 84" Stub-out	Flamingo Rd. (N) of Miramar Pkwy.	84	RCP	CIRC.	142	
2-183	Miramar Square Shopping Plaza - Outfall	(E) of Flamingo Rd. (S) of Miramar Pkwy.	48	RCP	CIRC.	1858	2 Control Structures
2-184.1	Countyline Corporate Center	Red Rd. & Turnpike	34 X 53 & 42	RCP	VARIABLES	937	
2-184.2	Countyline Corporate Center	Red Rd. & Turnpike	34 X 53 & 42	RCP	VARIABLES	937	
2-185	Enclave at Miramar Lakes	2061 Renaissance Blvd.	48	RCP	CIRC.	406	
2-186	Enclave at Miramar Lakes	2021 Renaissance Blvd.	48	RCP	CIRC.	200	
2-187	Miramar Self Storage / FPL Easement	(E) of Flamingo Rd. (S) of Miramar Pkwy.	48	RCP	CIRC.	335	
2-188	Miramar Business Center	(E) of Flamingo Rd. (S) of Miramar Pkwy.	48	RCP	CIRC.	382	
2-189	Aviation Sales	(E) of Flamingo Rd. (S) of Miramar Pkwy.	48	RCP	CIRC.	1118	
2-190	Waterview / MPOC Phase 4	(E) of Palm Ave. & Premier Pkwy.	48	RCP	CIRC.	70	
2-192	River Run	Fairmont Ave. & Miramar Pkwy.	24	CMP	CIRC.	717	
2-193	Flamingo Rd. & Miramar Pkwy.	Flamingo Rd. & Miramar Pkwy.	196 X 126	CAP	ELLIP.	180	
2-194	Miramar Park of Commerce - Phase 4 (North)	Palm Ave. & (N) of Premier Pkwy.	48	RCP	CIRC.	169	
2-195	Preserve at Miramar Lakes	Preserve at Miramar Lakes	48 & 38 X 60	RCP	CIRC.	216	
2-196	Pines City Center - Center Pipe	(S) of COPP City Hall / F.P.L.	54	RCP	CIRC.	439	
2-197	Pines City Center - West Pipe	(S) of Pines Blvd. & (W) of Palm Ave.	72	RCP	CIRC.	119	
2-198.1	C.O.M. Water Treatment Plant Access Rd.	Flamingo Rd. & Blue Gill Rd.	96	RCP	CIRC.	97	
2-198.2	C.O.M. Water Treatment Plant Access Rd.	Flamingo Rd. & Blue Gill Rd.	96	RCP	CIRC.	97	
2-198.3	C.O.M. Water Treatment Plant Access Rd.	Flamingo Rd. & Blue Gill Rd.	96	RCP	CIRC.	97	
2-199	Pines City Center - East Pipe	(S) of Pines Blvd. & (W) of Palm Ave.	72	RCP	CIRC.	165	
2-200.1	Park Plaza	Flamingo Rd. & (N) of Miramar Pkwy.	96	RCP	CIRC.	154	
2-200.2	Park Plaza	Flamingo Rd. & (N) of Miramar Pkwy.	96	RCP	CIRC.	154	
2-200.3	Park Plaza	Flamingo Rd. & (N) of Miramar Pkwy.	96	RCP	CIRC.	154	
2-201.1	MPOC Phase V	(S) of Miramar Pkwy. & (E) of Red. Rd.	48	RCP	CIRC.	479	

TABLE II-B-2

BASIN S-2 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
2-201.2	MPOC Phase V	(S) of Miramar Pkwy. & (E) of Red. Rd.	48	RCP	CIRC.	479	
2-202	Pines City Center - Mitigation	(E) of NW 106th Ave. & Washington St.	48	RCP	CIRC.	52	Control Structure
2-203.1	Modera Pembroke Pines	Palm Ave. & SW 7th St.	96	RCP	CIRC.	160	
2-203.2	Modera Pembroke Pines	Palm Ave. & SW 7th St.	96	RCP	CIRC.	160	
2-204.1	Waterview / MPOC	(E) of Palm Ave. & Premier Pkwy.	48	RCP	CIRC.	16	
2-204.2	Waterview / MPOC	(E) of Palm Ave. & Premier Pkwy.	48	RCP	CIRC.	16	
2-205	Miramar Park of Commerce - Phase 4 (South)	Palm Ave. & (N) of Premier Pkwy.	48	RCP	CIRC.	169	
2-207	Cleghorn Lake	Miramar Pkwy. & (E) of SW 119th Ave.	48	RCP	CIRC.	390	
2-208	Raintree	Raintree Blvd. & (N) of Pembroke Rd.	60	RCP	CIRC.	199	
2-209	Estates at Mayfair	11344 SW 12th St.	48	RCP	CIRC.	441	
2-210	Estates at Mayfair	902 SW 113th Way	84	RCP	CIRC.	327	
2-211	Raintree	865 SW 113th Ln.	48	RCP	CIRC.	243	
2-212	Raintree	SW 113th Ln. & SW 2nd St.	48	RCP	CIRC.	132	

BASIN S-2







Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™

SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-2 FLOOD GATE MAP

2019 UPDATE

Legend

-  Flood Gate
-  SFWMD Canal
-  SBDD Pump Station
-  Water Bodies



0 1,000 2,000 4,000 Feet

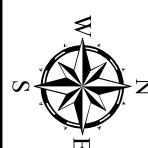


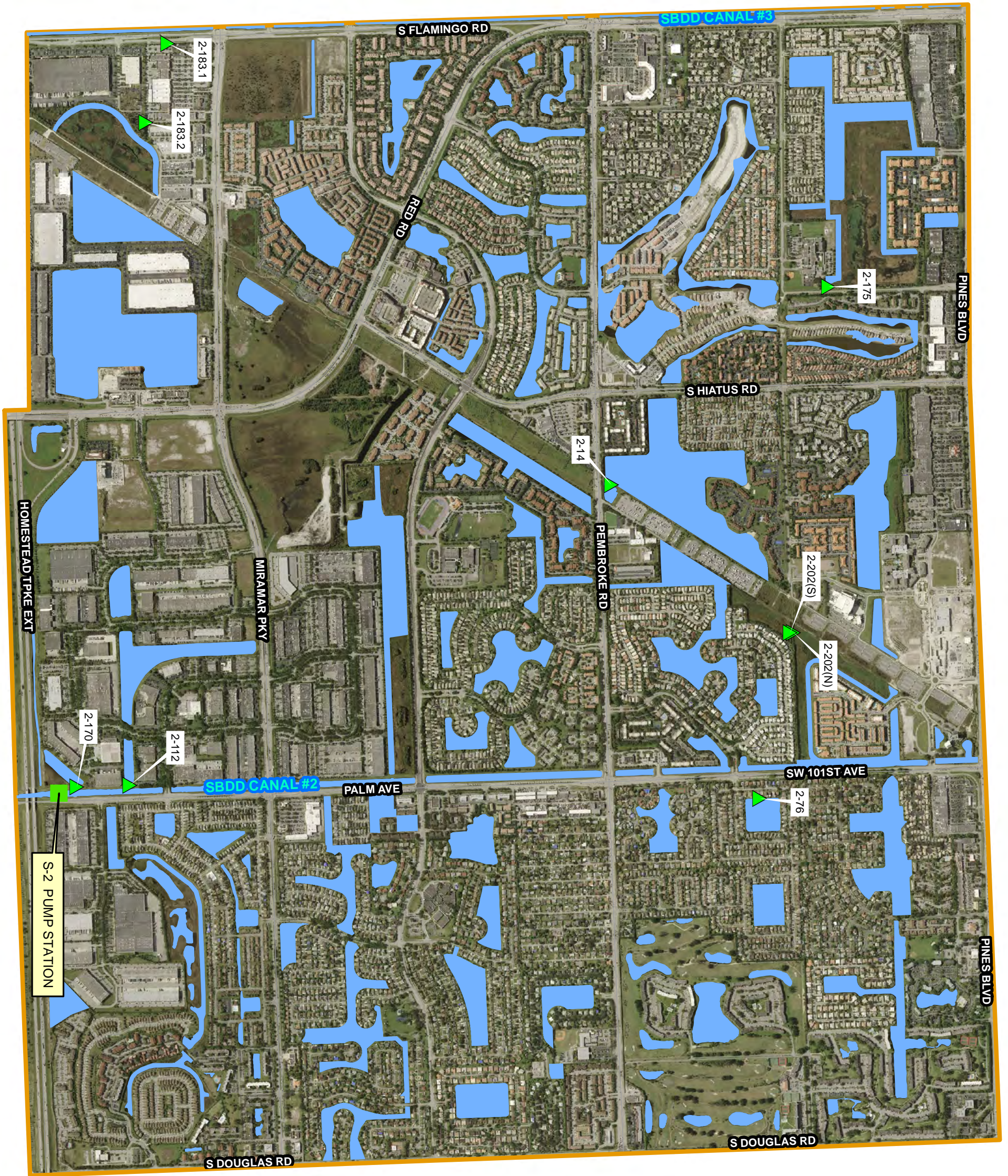
FIGURE II-B-2

TABLE II-B-3

BASIN S-2 FLOOD GATE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
2-13.4	S-2 Pump Station	4000 SW 101st Ave.	48" W X 60" H

BASIN S-2



Legend

- ▲ Control Structures
- SBDD Pump Station
- Water Bodies

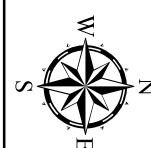


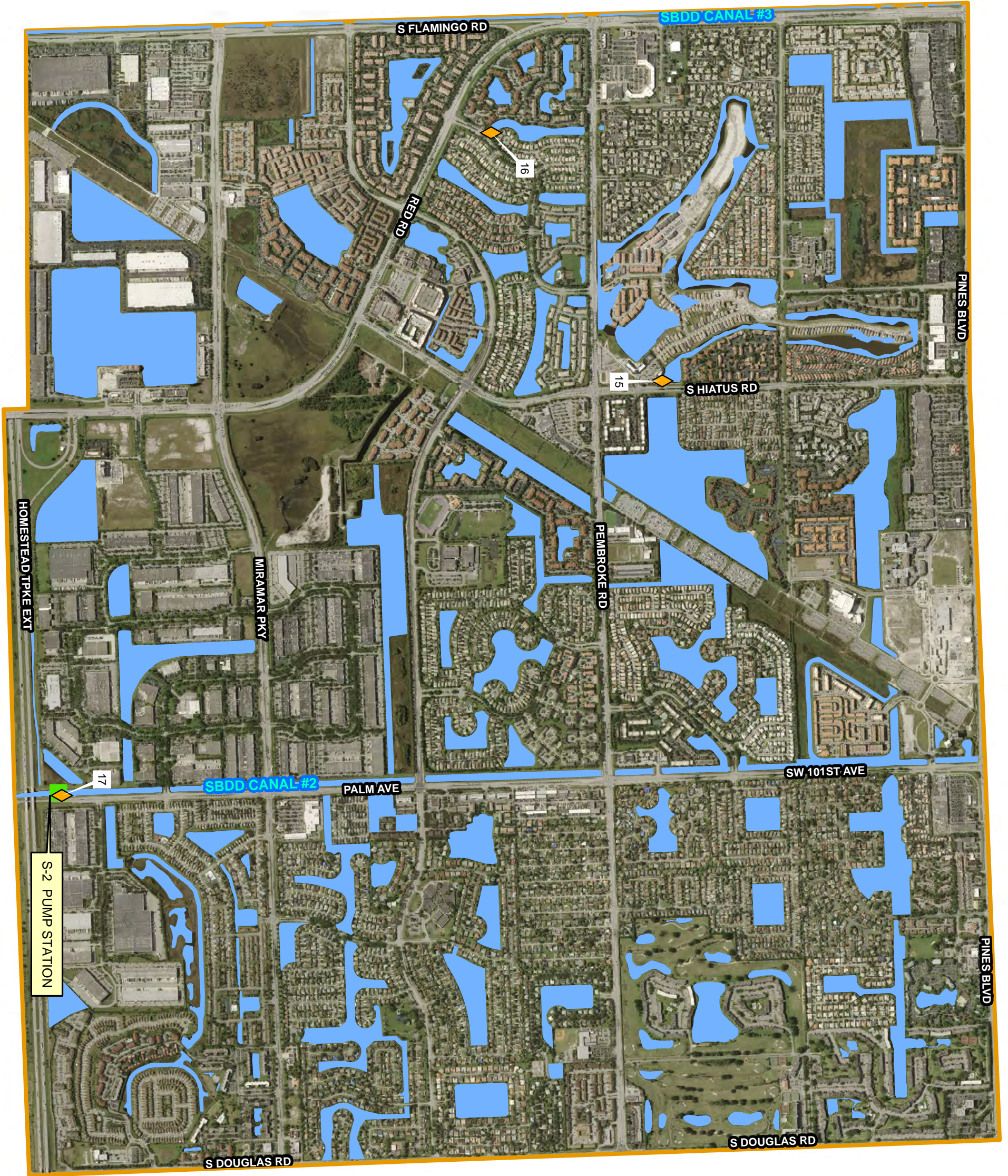
FIGURE II-B-3

TABLE II-B-4

BASIN S-2 CONTROL STRUCTURE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>General Comments</i>
2-14	COPP Charter School East	10801 Pembroke Rd.	Over-Flow Structure
2-76	Lakeside Key	1001 SW 100th Ter.	Over-Flow Structure
2-112	Miramar Park of Commerce	Palm Ave. & (N) of S-2 Pump Station	Ground Weir
2-170	Miramar Park of Commerce	Palm Ave. & (N) of S-2 Pump Station	Ground Weir
2-175	Palm Cove Elementary / Sarah Park	SW 114th Ave. & (N) of Washington St.	Concrete Weir w/ top @ 2.7 NGVD
2-183.1	Miramar Square - (W) Outfall	Flamingo Rd. & Miramar Pkwy.	
2-183.2	Miramar Square - (E) Outfall	Flamingo Rd. & Miramar Pkwy.	Over-Flow Structure w/ Bleeder @ 4.75 NGVD
2-202(N)	Pines City Center - Mitigation	(E) of NW 106th Ave. & Washington St.	Over-Flow Structure
2-202(S)	Pines City Center - Mitigation	(E) of NW 106th Ave. & Washington St.	Over-Flow Structure

BASIN S-2



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-2 STAFF GAUGE MAP

Legend

- Staff Gauge
- SFWMD Canal
- SBDD Pump Station
- Water Bodies

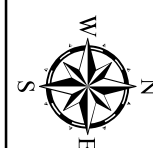


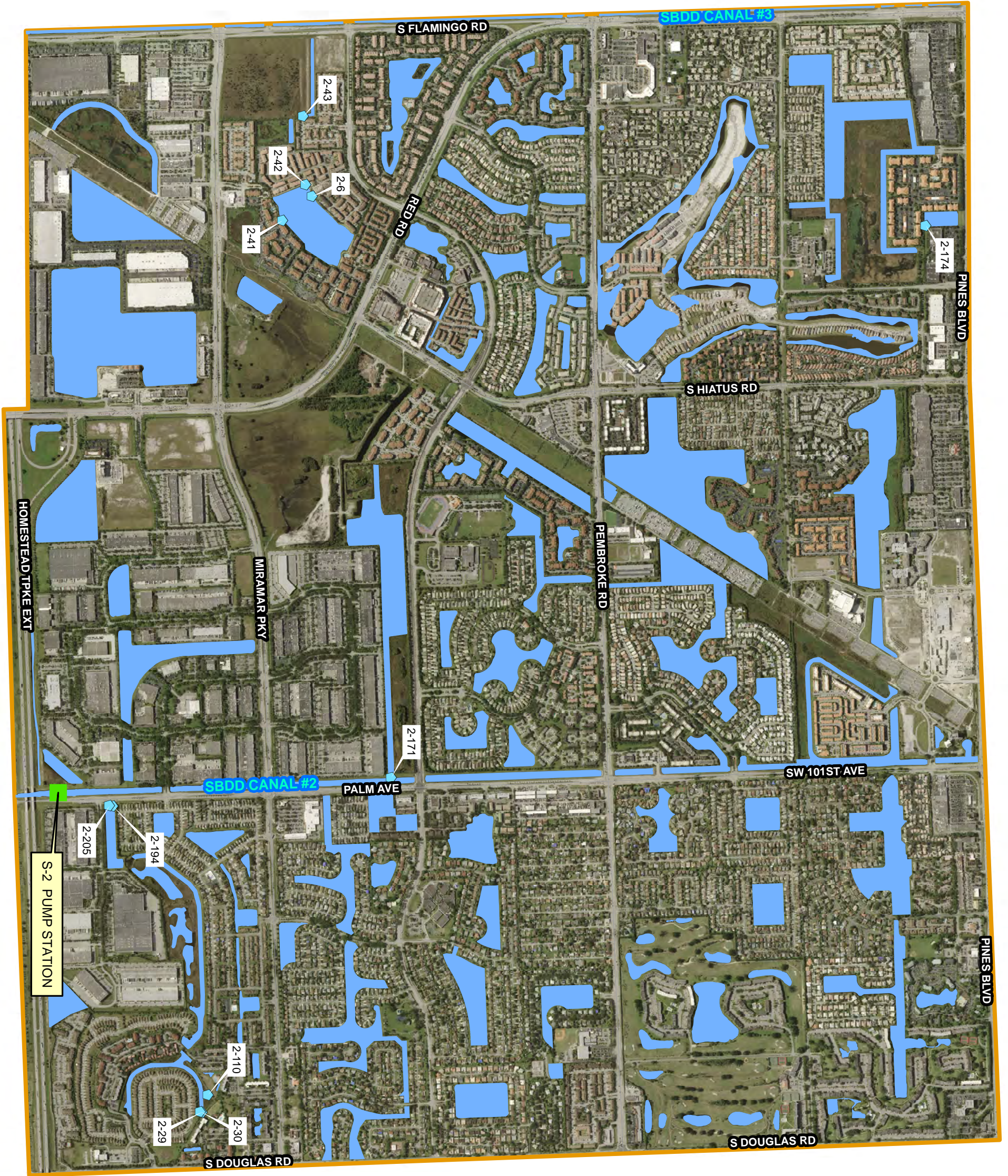
FIGURE II-B-4

TABLE II-B-5

BASIN S-2 STAFF GAUGE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
15	Raintree Golf Course Outfall	Hiatus Rd. & SW 14th St.	
16	Enclave at Miramar Lakes	Pembroke Rd. 1 Block (E) of Entrance	
17	S-2 Pump Station	4000 SW 101st Ave.	Telemetry

BASIN S-2



Legend

- ◆ Fish Guards
- ~ SFWMD Canal
- SBDD Pump Station
- Water Bodies



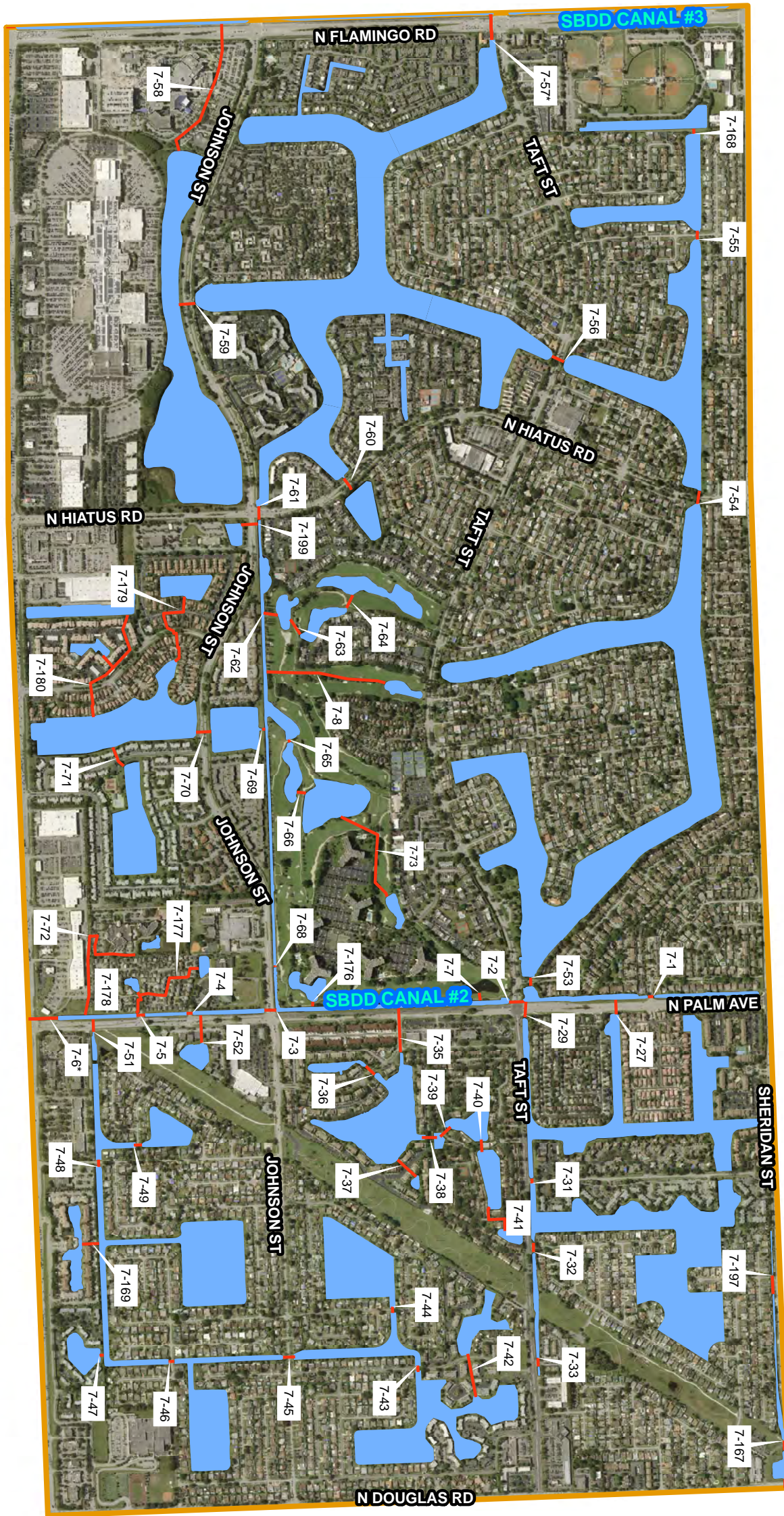
FIGURE II-B-5

TABLE II-B-6

BASIN S-2 FISH GUARD SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>
2-6	Cleghorn / Montclair (N)	Montclair Blvd. & SW 27th Ct.
2-29	Waterview	SW 34th Ct. & SW 90th Ter.
2-30	Waterview	SW 34th Ct. & SW 90th Ter.
2-41	Cleghorn / Flamingo Cove	SW 116th Ave. & SW 30th St.
2-42	Cleghorn / Montclair (W)	SW 119th Way & SW 28th St.
2-43	Cleghorn / Martinique	2784 SW 121st Ave.
2-110	Waterview	SW 34th Ct. & SW 90th Ter.
2-171	Miramar Park of Commerce	Palm Ave. Canal & (S) of Miramar Blvd.
2-174	Bed, Bath & Beyond	Pines Blvd. & 114th Ave. - Behind Store
2-194	Miramar Park of Commerce IV - (N) Pipe	Palm Ave. & (N) of Premier Pkwy.
2-205	Miramar Park of Commerce IV - (S) Pipe	Palm Ave. & (N) of Premier Pkwy.

BASIN S-7



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-7 EXISTING FACILITIES MAP

2019 UPDATE

Legend

-  SFWMD Canal
-  Culverts
-  SBDD Pump Station
-  Water Bodies

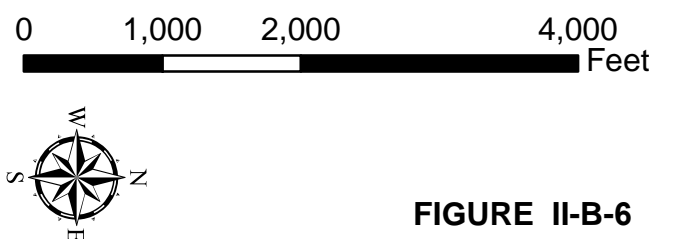


FIGURE II-B-6

TABLE II-B-7

BASIN S-7 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
7-1	Woodbridge	Palm Ave. & NW 21st St.	60	CAP	CIRC.	55	
7-2	Palm Ave. & Taft St.	Palm Ave. & Taft St.	84	CMP	CIRC.	163	
7-3	Palm Ave. & Johnson St.	Palm Ave. & Johnson St.	60	HDPE	CIRC.	126	
7-4	Palm Ave. & Promenade Dr.	Palm Ave. & Promenade Dr.	120	CMP	CIRC.	66	
7-5	Charleston in the Pines	Palm Ave. & NW 4th St.	120	CAP	CIRC.	93	
7-6.1	Palm Ave. & Pines Blvd.	Palm Ave. & Pines Blvd.	60	CMP	CIRC.	424	
7-6.2	Palm Ave. & Pines Blvd.	Palm Ave. & Pines Blvd.	60	CMP	CIRC.	424	
7-6.3	Palm Ave. & Pines Blvd.	Palm Ave. & Pines Blvd.	72	CMP	CIRC.	424	
7-7	Pembroke Lakes Golf Course	Lake # 7 to Palm Ave. Canal	48	RCP	CIRC.	83	
7-8	Pembroke Lakes Golf Course	Lake # 3 to Johnson St.	48	RCP	CIRC.	1280	
7-27	Normandy Lakes - Outfall	Palm Ave. & NW 19th St.	72	RCP	CIRC.	156	
7-29	Palm Ave. & Taft St.	Palm Ave. & Taft St.	48	RCP	CIRC.	167	
7-31	Bayberry	NW 97th Ave. & Taft St.	60	CMP	CIRC.	50	
7-32	Rainbow Lakes	NW 95th Ave. & Taft St.	60	CMP	CIRC.	95	
7-33	Rainbow Lakes Villas	NW 92nd Ave. & Taft St.	48	CMP	CIRC.	90	
7-35	Westview	Palm Ave. & Westview Blvd.	72 X 60	CMP	ELLIP.	473	
7-36	Westview	NW 99th Ave. & Westview Blvd. (NW 13th St.)	36	CMP	CIRC.	131	
7-37	Westview	1416 NW 97th Terr.	30	CMP	CIRC.	268	
7-38	East Lakes / Westview	NW 97th Terr. & NW 15th St.	72	CMP	CIRC.	161	
7-39	East Lakes	9720 NW 15th Ct.	60	CMP	CIRC.	151	
7-40	East Lakes	1590 NW 97th Terr.	54	CMP	CIRC.	133	
7-41	East Lakes	1651 NW 96th Terr.	36	CMP	CIRC.	441	
7-42	Westview	NW 92nd Ave. & NW 15th St.	48	CMP	CIRC.	471	
7-43	Westview	1240 NW 92nd Ave.	48	CMP	CIRC.	69	
7-44	Westview	NW 93rd Terr. & NW 13th St.	42	CMP	CIRC.	68	
7-45	NW 92nd Ave. & Johnson St.	NW 92nd Ave. & Johnson St.	72	CMP	CIRC.	128	
7-46	Lakeside	NW 92nd Ave. & NW 5th St.	60	CMP	CIRC.	59	
7-47	Pine Lake	176 NW 92nd Ave.	30	CMP	CIRC.	44	
7-48	East Flair	NW 98th Ave. & NW 2nd St.	84	CMP	CIRC.	79	
7-49	North Flair	NW 98th Ave. & NW 4th St.	48	CMP	CIRC.	89	
7-51	Flair Lake - Outfall	Palm Ave. & NW 2nd St.	72	CMP	CIRC.	133	
7-52	Palm Place - Outfall to Palm Ave.	Palm Ave. & (N) of Promenade Dr.	30	CMP	CIRC.	296	

TABLE II-B-7

BASIN S-7 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
7-53	Cedarwoods - Main Entrance	Cedarwoods Ave. & Taft St.	96	CMP	CIRC.	85	
7-54	Pembroke Lakes	Hiatus Rd. & NW 23rd St.	96	CMP	CIRC.	142	
7-55	Pembroke Lakes	NW 118th Ave. & NW 22nd St.	48	CMP	CIRC.	94	
7-56	Pembroke Lakes	NW 113th Ave. & Taft St.	96	CMP	CIRC.	143	
7-57.1	Old SBDD Headquarters	1601 Flamingo Rd.	48	RCP/STEEL	CIRC.	274	
7-57.2	Old SBDD Headquarters	1601 Flamingo Rd.	48	RCP/STEEL	CIRC.	274	
7-57.3	Old SBDD Headquarters	1601 Flamingo Rd.	48	RCP/STEEL	CIRC.	274	
7-57.4	Old SBDD Headquarters	1601 Flamingo Rd.	48	RCP/STEEL	CIRC.	274	
7-58	Memorial Hospital West	Memorial Hospital West	60	CMP/RCP	CIRC.	1523	
7-59	Pembroke Lakes Mall / Johnson St.	NW 114th Ave. & Johnson St.	96	RCP	CIRC.	178	
7-60	Hiatus Rd. & NW 12th St.	Hiatus Rd. & NW 12th St.	48	CMP	CIRC.	147	
7-61	Hiatus Rd. & Johnson St.	Hiatus Rd. & Johnson St.	96	CMP	CIRC.	144	
7-62	Pembroke Lakes Golf Course	Lake # 2 to Johnson St. Canal	48	CMP	CIRC.	154	
7-63	Pembroke Lakes Golf Course	Lake # 2 to Lake # 9	48	RCP	CIRC.	193	
7-64	Pembroke Lakes Golf Course	Lake # 1 to Lake # 9	42	CMP	CIRC.	153	
7-65	Pembroke Lakes Golf Course	Lake # 4 to West Lake	66	RCP	CIRC.	33	
7-66	Pembroke Lakes Golf Course	Pembroke Lakes Golf Course	48	RCP	CIRC.	97	
7-68	Pembroke Lakes G.C. / Johnson St.	Johnson St. Canal	84	CMP	CIRC.	18	
7-69	Fairview Apartments	NW 107th Ave. & Johnson St. Canal	72	CMP	CIRC.	33	
7-70	Southbridge	NW 107th Ave. & Johnson St.	60	CMP	CIRC.	161	
7-71	Southbridge	350 NW 106th Terr.	48	CMP	CIRC.	238	
7-72	Focal Point Senior Center / K-Mart	301 NW 103rd Ave.	60 & 36	RCP	CIRC.	1566	2 Control Structures
7-73	Pembroke Lakes Golf Course	10344 Fairway Rd.	30 & 48 & 60	CMP	CIRC.	1140	
7-167	Fountains Exexecutive Center	9000 Sheridan St.	24	CMP	CIRC.	101	
7-168	COPP - Flamingo Park	(E) of Flamingo Rd. & (S) of Sheridan St.	48	CAP	CIRC.	57	
7-169	Green Key / La Via	NW 96th Ave. & NW 2nd St.	48	RCP / CAP	CIRC.	183	
7-176	Pembroke Lakes Golf Course	Lake # 8 to Palm Ave. Canal	48	CMP	CIRC.	48	
7-177	Charleston in the Pines	NW 102nd Ave. & NW 6th St.	18	PVC	CIRC.	897	
7-178	Charleston in the Pines	Palm Ave. & NW 4th St.	15	PVC	CIRC.	236	
7-179	Portraits / Images	501 NW 107th Ave.	48	RCP	CIRC.	1009	
7-180	Portofino / Pembroke Lakes Square	NW 108th Ave. & NW 2nd Ct.	24 & 36	RCP	CIRC.	1494	2 Control Structures
7-197	Sheridan St. Canal West	Sheridan St. & NW 94th Ave.	36	CMP	CIRC.	196	

TABLE II-B-7

BASIN S-7 EXISTING CULVERT SCHEDULE




<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
7-199	St. Maximillian Kolbe Catholic Church	St. Maximillian Kolbe Catholic Church	15	CMP	CIRC.	180	

BASIN S-7



**SOUTH BROWARD DRAINAGE DISTRICT
BASIN: S-7 CONTROL STRUCTURE MAP**

Legend

-  Control Structures
-  SFWMD Canal
-  Water Bodies



0 1,000 2,000 4,000 Feet

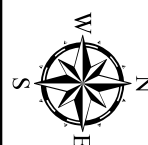


FIGURE II-B-7

TABLE II-B-8

BASIN S-7 CONTROL STRUCTURE SCHEDULE




<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>General Comments</i>
7-72.1	K-mart Shopping Center - Outfall	Pines Blvd. & Palm Ave.	Weir w/ 3" Bleeder @ 2.7 NGVD
7-72.2	Southwest Focal Point Senior Center	301 NW 103rd Ave.	Weir @ 5.10 NGVD
7-180.1	Portofino Apartments	101 NW 108th Terrace - Bldg. # 150	Bubble-Up
7-180.2	Pembroke Lakes Square	11005 Pines Blvd.	

BASIN S-7



**SOUTH BROWARD DRAINAGE DISTRICT
BASIN: S-7 STAFF GAUGE MAP**

Legend

-  Staff Gauge
-  SFWMD Canal
-  Water Bodies

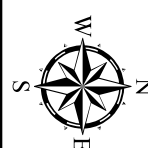


FIGURE II-B-8

TABLE II-B-9

BASIN S-7 STAFF GAUGE SCHEDULE




<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
2	Cedarwoods	Palm Ave. Canal & (N) of Taft St.	Water Level Recorder
4	Westview	1245 NW 92nd Ave.	
5	Bayberry	Taft St. & NW 97th Ave.	
73	Pembroke Lakes # 4	NW 114th Ave. & Johnson St.	

BASIN S-7



**SOUTH BROWARD DRAINAGE DISTRICT
BASIN: S-7 FISH GUARD MAP**

Legend

-  Fish Guards
-  SFWMD Canal
-  Water Bodies

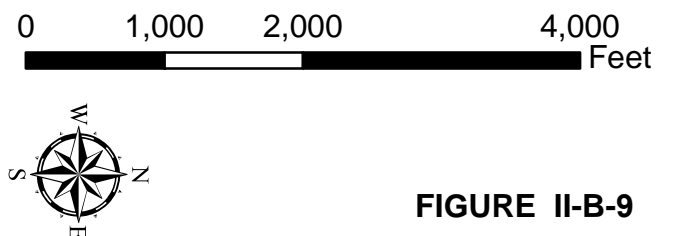


FIGURE II-B-9

TABLE II-B-10

BASIN S-7 FISH GUARD SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>
7-59	Pembroke Lakes	Johnson St. & W/O Hiatus Rd.

BASIN S-13



Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™

SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-13 EXISTING FACILITIES MAP

2019 UPDATE

Legend

-  SFWMD Canal
-  Culverts
-  SBDD Pump Station
-  Water Bodies

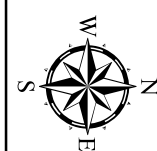
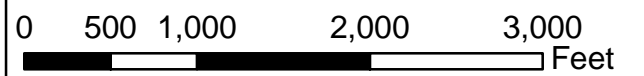


FIGURE II-B-10

TABLE II-B-11

BASIN S-13 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
13-1	C.B. Smith Park - Outfall	Between Shelter 1 and Water Park	12	STEEL	CIRC.	130	
13-2	C.B. Smith Park	RV Campground	148	CAP	CIRC.	63	
13-3	C.B. Smith Park	Concert Green	184 X 120	CAP	ARCH	87	
13-4	C.B. Smith Park	(W) of Flamingo Rd. & (S) of Taft St.	156 X 132	CAP	ARCH	64	
13-14	SFWMD Structure G-87	Flamingo Rd. & Sheridan St.	84	CMP	CIRC.	230	SFWMD G-87 Flood Gate
13-15	Flamingo Falls - (N) Entrance	Flamingo Rd. & NW 21st St.	96	RCP	CIRC.	130	
13-16	Flamingo Falls - (S) Entrance	Flamingo Rd. & NW 20th St.	96	RCP	CIRC.	137	
13-17	Flamingo Rd. & Taft St.	Flamingo Rd. & Taft St.	96	RCP	CIRC.	208	
13-18.1	C.B. Smith Park	Flamingo Rd. & Johnson St.	72	RCP	CIRC.	122	
13-18.2	C.B. Smith Park	Flamingo Rd. & Johnson St.	72	RCP	CIRC.	122	
13-18.3	C.B. Smith Park	Flamingo Rd. & Johnson St.	72	RCP	CIRC.	122	
13-20.1	Flamingo Rd. & Pines Blvd.	Flamingo Rd. & Pines Blvd.	60	CMP	CIRC.	203	
13-20.2	Flamingo Rd. & Pines Blvd.	Flamingo Rd. & Pines Blvd.	60	CMP	CIRC.	203	
13-20.3	Flamingo Rd. & Pines Blvd.	Flamingo Rd. & Pines Blvd.	96	CMP	CIRC.	203	
13-142	Pembroke Falls - Outfall	NW 125th Ave. & NW 20th St.	96	RCP	CIRC.	1050	Control Structure
13-143	Pembroke Falls	NW 130th Ave. & NW 18th Ct.	72	RCP	CIRC.	184	
13-144	Pembroke Falls	NW 129th Ave. & Taft St.	72	RCP	CIRC.	216	
13-145	Pembroke Falls	NW 135th Ave. & NW 20th St.	48	RCP	CIRC.	237	
13-146	Pembroke Falls	NW 137th Ave. & NW 20th St.	48	RCP	CIRC.	264	
13-147	Pembroke Falls	NW 136th Ave. & NW 20th St.	72	RCP	CIRC.	260	
13-148	Pembroke Falls	NW 136th Ave. & NW 15th Ct.	60	RCP	CIRC.	242	
13-149	Pembroke Falls	NW 136th Ave. & NW 12th St.	48	RCP	CIRC.	241	
13-150	Pembroke Falls	NW 133rd Ave. & NW 11th St.	48	RCP	CIRC.	620	
13-151	Pembroke Falls	NW 136th Ave. & NW 5th St.	48	RCP	CIRC.	600	
13-152	Pembroke Falls	NW 140th Ave. & NW 10th St.	54	RCP	CIRC.	240	
13-153	Pembroke Falls	NW 142nd Ave. & NW 10th St.	54	RCP	CIRC.	242	
13-154	Pembroke Falls	NW 142nd Ave. & NW 15th St.	48	RCP	CIRC.	269	
13-155	Pembroke Falls	NW 138th Ave. & Taft St.	60	RCP	CIRC.	336	
13-156	Pembroke Falls	NW 142nd Ave. & NW 20th St.	48	RCP	CIRC.	194	
13-159	Pembroke Cove	NW 135th Ave. & NW 5th St.	48	RCP	CIRC.	504	
13-160	C.B. Smith Park	C.B. Smith Park Internal	BRIDGE				
13-161	C.B. Smith Park	C.B. Smith Park Internal	BRIDGE				

TABLE II-B-11

BASIN S-13 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
13-162	C.B. Smith Park	C.B. Smith Park Internal	BRIDGE				
13-163	C.B. Smith Park	C.B. Smith Park Internal	BRIDGE				
13-164	C.B. Smith Park	C.B. Smith Park Internal	BRIDGE				
13-165	C.B. Smith Park	C.B. Smith Park Internal	BRIDGE				
13-166	C.B. Smith Park	C.B. Smith Park Internal	BRIDGE				
13-191	Pembroke Falls	NW 129th Ave. & NW 14th St.	54 & 36	RCP	CIRC.	242	

BASIN S-13






Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™

SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-13 FLOOD GATE MAP

2019 UPDATE

Legend

-  Flood Gate
-  SFWMD Canal
-  Water Bodies



0 500 1,000 2,000 3,000 Feet

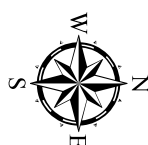


FIGURE II-B-11

TABLE II-B-12

BASIN S-13 FLOOD GATE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
13-14	Flamingo Falls Shopping Center	Sheridan St. & Flamingo Rd.	SFWMD G-87

BASIN S-13







Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™

SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-13 CONTROL STRUCTURE MAP

2019 UPDATE

Legend

-  Control Structures
-  SFWMD Canal
-  SBDD Pump Station
-  Water Bodies



0 500 1,000 2,000 3,000 Feet



FIGURE II-B-12

TABLE II-B-13

BASIN S-13 CONTROL STRUCTURE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>General Comments</i>
13-142	Pembroke Falls	Flamingo Rd. & (N) of Taft St.	Bubble-Up

BASIN S-13







Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™

SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-13 STAFF GAUGE MAP

2019 UPDATE

Legend

-  Staff Gauge
-  SFWMD Canal
-  SBDD Pump Station
-  Water Bodies



0 500 1,000 2,000 3,000 Feet

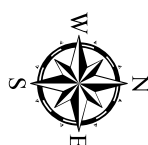
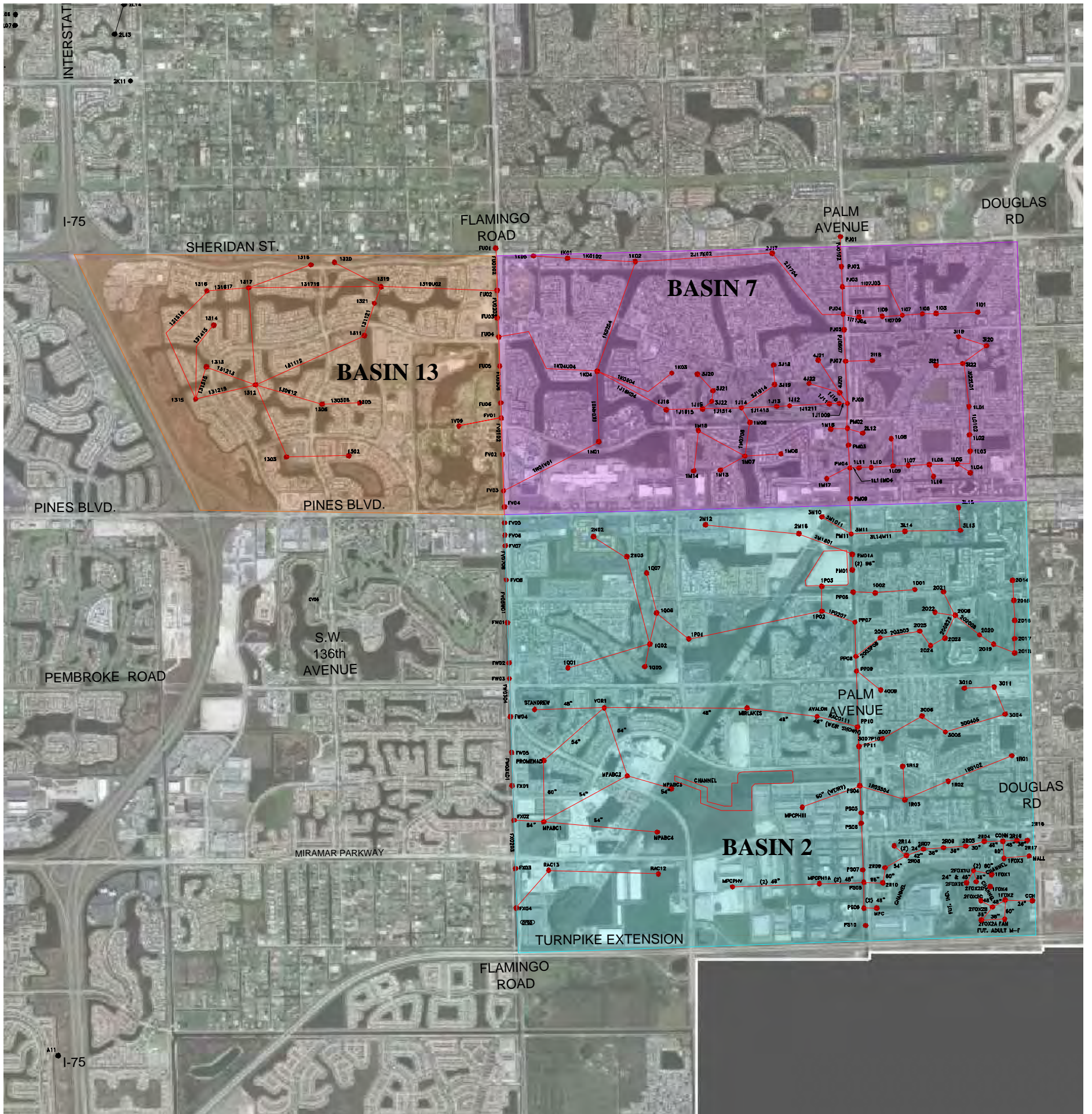


FIGURE II-B-13

TABLE II-B-14






BASIN S-13 STAFF GAUGE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
1	SFWMD G-87 Structure	Sheridan St. & Flamingo Rd.- (SW) Corner	Water Level Recorder
84	Pembroke Falls	NW 136th Avenue & (S) of Sheridan St. Entry Gate	Water Level Recorder



OVERALL NODAL DIAGRAM

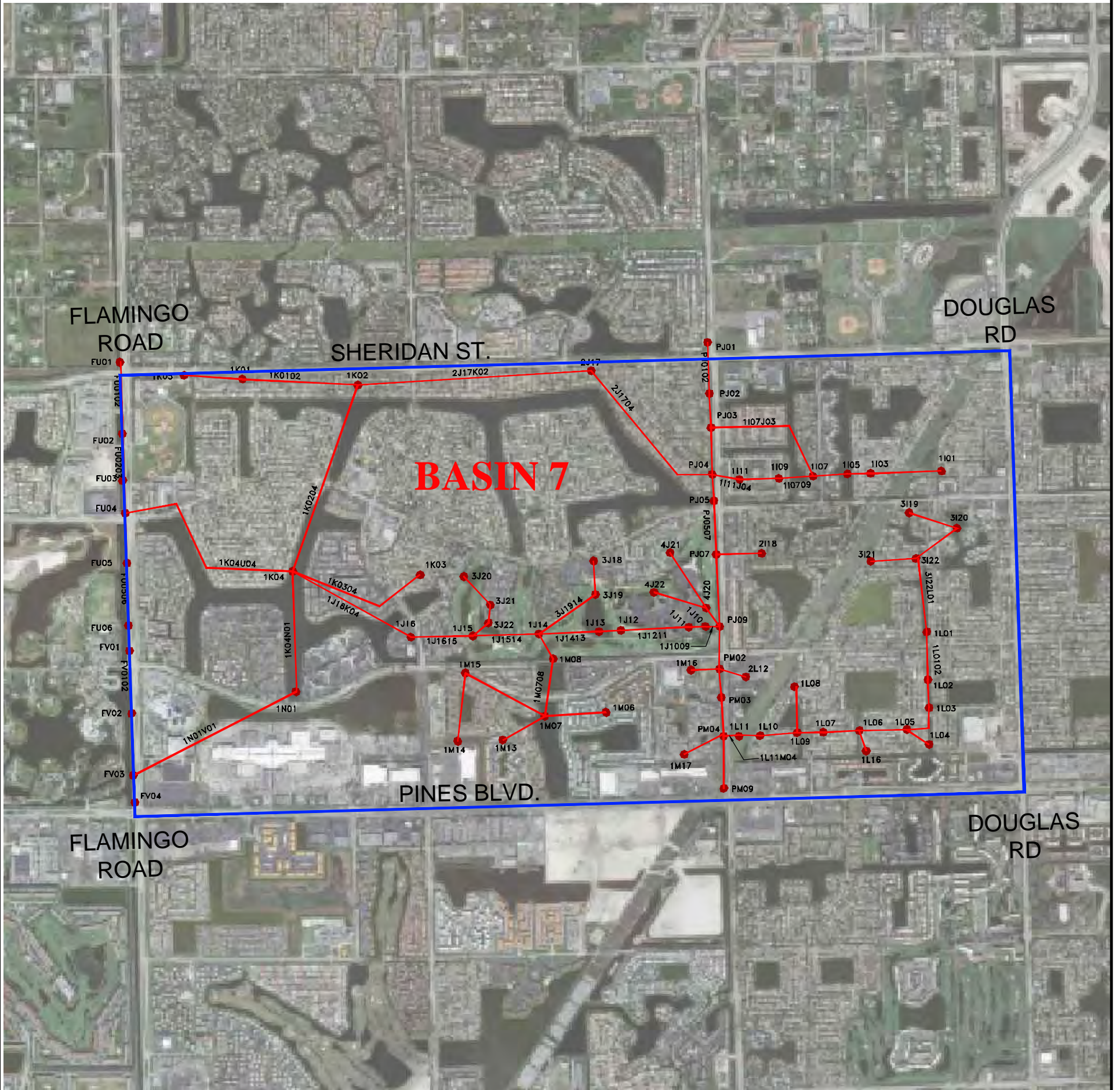
LEGEND

-  BASIN BOUNDARY
-  NODE
-  NODE ID No.
-  LINK
-  LINK ID No.



N.T.S.

FIGURE II-B-14



BASIN 7 NODAL DIAGRAM

LEGEND

- BASIN BOUNDARY
- NODE
- 1F04 NODE ID No.
- LINK
- LINK ID No.

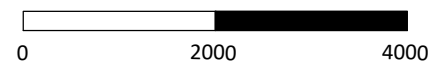


FIGURE II-B-16

TABLE II-B-15

BASINS S-2, S-7 & S-13

BASIN MAXIMUM STAGE REPORT

10-YEAR, 3-DAY STORM

100-YEAR, 3-DAY STORM

SOUTH BROWARD DRAINAGE DISTRICT
BASINS S-2, S-7 AND S-13 MAX STAGE REPORT
TABLE II-B-15

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
1302	BASE	100Y-72H	69.386	6.56	8.00	0.000	2922275	60.000	584.05	63.238	28.85
1302	BASE	10Y-72H	64.833	5.38	8.00	0.000	1553936	60.000	361.05	63.027	29.28
1303	BASE	100Y-72H	72.000	6.32	8.00	0.000	1045107	60.000	333.53	60.537	49.81
1303	BASE	10Y-72H	72.000	5.14	8.00	0.000	714999	60.000	210.86	60.584	40.61
1305	BASE	100Y-72H	72.000	6.20	8.00	0.000	393593	60.167	93.65	60.688	21.62
1305	BASE	10Y-72H	72.000	5.05	8.00	0.000	198178	60.000	51.60	60.660	16.26
1306	BASE	100Y-72H	72.000	6.20	8.00	0.000	718808	60.000	180.11	60.499	26.95
1306	BASE	10Y-72H	72.000	5.05	8.00	0.000	454969	60.000	108.05	60.459	19.94
1311	BASE	100Y-72H	72.000	6.19	8.00	0.000	2322011	60.000	608.42	60.508	88.16
1311	BASE	10Y-72H	72.000	5.05	8.00	0.000	1594907	60.000	360.42	60.467	70.81
1312	BASE	100Y-72H	72.000	6.19	8.00	0.000	3619745	60.000	799.37	60.199	85.20
1312	BASE	10Y-72H	72.011	5.05	8.00	0.000	2763001	60.000	488.34	60.175	65.61
1313	BASE	100Y-72H	75.319	6.18	8.00	0.000	594167	60.083	189.07	60.020	144.88
1313	BASE	10Y-72H	73.916	5.05	8.00	0.000	292045	60.046	114.25	60.023	91.01
1314	BASE	100Y-72H	75.340	6.18	8.00	0.000	783471	60.000	168.85	60.014	100.91
1314	BASE	10Y-72H	74.022	5.05	8.00	0.000	437745	60.000	98.02	60.014	60.07
1315	BASE	100Y-72H	75.327	6.18	8.00	0.000	9108196	60.333	1202.24	78.143	6.59
1315	BASE	10Y-72H	74.006	5.05	8.00	0.000	6939070	60.333	744.88	75.003	4.43
1316	BASE	100Y-72H	75.278	6.18	8.00	0.000	836611	60.250	54.61	79.253	7.12
1316	BASE	10Y-72H	73.968	5.05	8.00	0.000	503396	60.250	22.01	75.525	4.59
1317	BASE	100Y-72H	72.000	6.18	8.00	0.000	3965688	60.000	595.11	79.924	20.68
1317	BASE	10Y-72H	72.000	5.04	8.00	0.000	2531493	60.000	344.94	75.834	12.73
1318	BASE	100Y-72H	72.000	6.18	8.00	0.000	231561	60.000	67.24	60.119	21.84
1318	BASE	10Y-72H	72.000	5.04	8.00	0.000	143962	60.000	39.17	60.096	14.46
1319	BASE	100Y-72H	72.000	6.18	8.00	0.000	3801558	60.000	777.10	62.934	42.91
1319	BASE	10Y-72H	72.000	5.04	8.00	0.000	2523641	60.000	478.69	85.000	23.19
1320	BASE	100Y-72H	72.000	6.18	8.00	0.000	246019	60.000	69.34	60.093	18.99
1320	BASE	10Y-72H	72.000	5.04	8.00	0.000	149821	60.000	40.47	60.054	12.27
1321	BASE	100Y-72H	72.000	6.19	8.00	0.000	249092	60.083	84.42	60.173	45.60
1321	BASE	10Y-72H	72.000	5.04	8.00	0.000	127113	60.083	57.70	60.175	36.23
1FOX1	BASE	100Y-72H	64.136	5.89	8.00	-0.028	44986	62.388	467.30	60.285	205.99
1FOX1	BASE	10Y-72H	63.244	4.69	8.00	-0.028	40350	61.584	323.30	60.328	184.94
1FOX2	BASE	100Y-72H	64.135	5.89	8.00	-0.024	58105	60.061	165.61	0.000	1363.21
1FOX2	BASE	10Y-72H	63.244	4.69	8.00	-0.024	53445	60.083	119.88	0.000	1363.21
1FOX3	BASE	100Y-72H	64.135	5.89	8.00	-0.013	81030	60.122	190.76	0.001	520.58
1FOX3	BASE	10Y-72H	63.244	4.69	8.00	-0.013	78161	59.990	154.95	0.001	520.58
1FOX4	BASE	100Y-72H	64.135	5.89	8.00	0.042	80899	0.000	1363.21	62.502	266.15

SOUTH BROWARD DRAINAGE DISTRICT
BASINS S-2, S-7 AND S-13 MAX STAGE REPORT
TABLE II-B-15

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
1FOX4	BASE	10Y-72H	63.244	4.69	8.00	0.042	74923	0.000	1363.21	61.585	185.36
1I01	BASE	100Y-72H	61.830	5.94	7.50	0.000	606391	60.167	247.67	60.568	53.25
1I01	BASE	10Y-72H	61.353	4.91	7.50	0.000	315821	60.167	151.87	60.669	46.83
1I03	BASE	100Y-72H	72.000	5.88	7.50	0.000	438433	60.303	100.02	60.784	36.06
1I03	BASE	10Y-72H	72.000	4.84	7.50	0.000	280317	60.375	68.63	60.999	34.69
1I05	BASE	100Y-72H	72.000	5.88	7.50	0.000	2659983	60.000	424.80	60.025	18.88
1I05	BASE	10Y-72H	72.000	4.83	7.50	0.000	1820401	60.000	262.97	60.008	12.96
1I07	BASE	100Y-72H	72.000	5.86	7.50	0.000	2876046	60.000	473.78	60.202	46.78
1I07	BASE	10Y-72H	72.000	4.82	7.50	0.000	2050445	60.000	294.65	60.162	36.51
1I09	BASE	100Y-72H	72.062	5.82	7.50	0.000	54730	60.228	26.88	72.059	43.44
1I09	BASE	10Y-72H	72.023	4.79	7.50	0.000	53904	60.161	20.64	63.861	24.70
1I11	BASE	100Y-72H	72.062	5.82	7.50	0.000	54672	72.059	43.44	68.930	13.49
1I11	BASE	10Y-72H	72.023	4.79	7.50	0.000	53835	63.861	24.70	85.000	12.01
1J10	BASE	100Y-72H	72.124	5.80	7.50	0.000	1415166	60.167	88.83	64.455	6.55
1J10	BASE	10Y-72H	72.000	4.78	7.50	0.000	1011256	60.167	46.95	63.506	4.96
1J11	BASE	100Y-72H	72.169	5.79	7.50	0.000	42938	64.059	27.09	64.090	25.88
1J11	BASE	10Y-72H	72.026	4.77	7.50	0.000	41073	63.225	21.04	63.255	19.89
1J12	BASE	100Y-72H	72.170	5.79	7.50	0.000	43028	64.031	28.32	64.059	27.09
1J12	BASE	10Y-72H	72.028	4.77	7.50	0.000	41161	63.195	22.20	63.225	21.04
1J13	BASE	100Y-72H	72.185	5.77	7.50	0.000	35232	64.000	29.36	64.031	28.32
1J13	BASE	10Y-72H	72.039	4.76	7.50	0.000	34092	63.161	23.19	63.195	22.20
1J14	BASE	100Y-72H	72.185	5.77	7.50	0.000	1796644	60.569	154.94	64.000	29.36
1J14	BASE	10Y-72H	72.040	4.75	7.50	0.000	1033599	60.537	98.03	63.161	23.19
1J15	BASE	100Y-72H	72.174	5.77	7.50	0.000	59363	61.484	82.59	61.535	76.29
1J15	BASE	10Y-72H	72.024	4.75	7.50	0.000	55421	61.320	48.20	61.372	43.72
1J16	BASE	100Y-72H	72.163	5.77	7.50	0.000	33350	0.000	0.00	64.503	11.43
1J16	BASE	10Y-72H	72.009	4.75	7.50	0.000	31670	0.000	0.00	54.622	3.98
1K01	BASE	100Y-72H	65.442	5.94	7.50	0.000	1133313	60.472	200.96	60.720	32.68
1K01	BASE	10Y-72H	64.062	4.90	7.50	0.000	594617	60.500	123.72	61.871	30.49
1K02	BASE	100Y-72H	72.000	5.78	7.50	0.000	2370978	60.500	373.99	74.451	68.45
1K02	BASE	10Y-72H	72.000	4.74	7.50	0.000	1331809	60.500	196.83	80.838	68.58
1K03	BASE	100Y-72H	72.000	5.71	7.50	0.000	640060	60.500	123.56	60.842	28.42
1K03	BASE	10Y-72H	72.000	4.66	7.50	0.000	298805	60.500	67.78	61.145	20.48
1K04	BASE	100Y-72H	72.000	5.70	7.50	0.000	5836868	60.417	1115.25	66.876	166.56
1K04	BASE	10Y-72H	72.000	4.66	7.50	0.000	4466623	60.417	673.69	72.606	158.14
1K05	BASE	100Y-72H	64.603	5.99	7.50	0.000	782949	60.083	259.32	60.379	51.11
1K05	BASE	10Y-72H	64.010	4.94	7.50	0.000	403942	60.083	159.27	60.474	43.54

SOUTH BROWARD DRAINAGE DISTRICT
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TABLE II-B-15

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
1L01	BASE	100Y-72H	74.719	5.87	7.50	0.000	44435	60.263	49.70	60.239	41.98
1L01	BASE	10Y-72H	72.000	4.86	7.50	0.000	41134	60.199	33.85	60.181	29.21
1L02	BASE	100Y-72H	74.723	5.87	7.50	0.000	1764359	60.417	222.82	73.935	17.11
1L02	BASE	10Y-72H	72.000	4.86	7.50	0.000	1104610	60.000	125.15	66.844	14.55
1L03	BASE	100Y-72H	75.168	5.86	7.50	0.000	34163	73.935	17.11	66.228	13.62
1L03	BASE	10Y-72H	72.015	4.85	7.50	0.000	33409	66.844	14.55	66.279	13.45
1L04	BASE	100Y-72H	61.834	6.28	7.50	0.000	468069	60.083	181.67	60.593	26.11
1L04	BASE	10Y-72H	61.395	5.29	7.50	0.000	245828	60.083	112.82	60.749	23.91
1L05	BASE	100Y-72H	75.170	5.86	7.50	0.000	70599	66.228	27.44	66.681	49.46
1L05	BASE	10Y-72H	72.016	4.85	7.50	0.000	68336	66.279	19.26	72.158	31.95
1L06	BASE	100Y-72H	75.168	5.86	7.50	0.000	2599701	60.000	322.59	62.933	29.75
1L06	BASE	10Y-72H	72.017	4.85	7.50	0.000	1729424	60.000	199.61	62.532	22.43
1L07	BASE	100Y-72H	75.165	5.86	7.50	0.000	235167	59.714	38.80	63.160	23.74
1L07	BASE	10Y-72H	72.016	4.85	7.50	0.000	219053	59.703	25.06	85.000	21.27
1L08	BASE	100Y-72H	74.506	5.85	7.50	0.000	346763	60.000	93.64	60.255	26.30
1L08	BASE	10Y-72H	72.000	4.84	7.50	0.000	197496	60.000	53.23	60.166	17.44
1L09	BASE	100Y-72H	74.506	5.85	7.50	0.000	45423	59.701	23.88	63.233	20.65
1L09	BASE	10Y-72H	72.000	4.84	7.50	0.000	44630	85.000	22.04	85.000	22.22
1L10	BASE	100Y-72H	74.501	5.85	7.50	0.000	830668	60.083	147.32	80.000	21.02
1L10	BASE	10Y-72H	72.000	4.84	7.50	0.000	562743	60.083	84.32	85.000	24.42
1L11	BASE	100Y-72H	72.082	5.83	7.50	0.000	323953	60.088	39.21	80.000	21.79
1L11	BASE	10Y-72H	72.033	4.82	7.50	0.000	249674	85.000	24.42	85.000	25.56
1L16	BASE	100Y-72H	75.161	5.86	7.50	0.000	297673	60.000	109.85	60.428	21.75
1L16	BASE	10Y-72H	72.000	4.85	7.50	0.000	198188	60.000	67.29	60.416	17.08
1M06	BASE	100Y-72H	72.000	5.93	7.50	0.000	1038364	60.500	214.09	61.712	31.03
1M06	BASE	10Y-72H	64.233	4.87	7.50	0.000	657743	60.500	130.15	61.658	25.29
1M07	BASE	100Y-72H	72.000	5.90	7.50	0.000	1099039	60.000	309.69	60.745	37.15
1M07	BASE	10Y-72H	71.540	4.83	7.50	0.000	995951	60.000	204.31	60.713	29.57
1M08	BASE	100Y-72H	72.000	5.80	7.50	0.000	888498	60.000	198.72	60.220	59.58
1M08	BASE	10Y-72H	72.000	4.78	7.50	0.000	708504	60.000	128.42	60.169	42.57
1M13	BASE	100Y-72H	72.000	5.90	7.50	0.000	224407	60.083	104.36	60.664	28.37
1M13	BASE	10Y-72H	60.857	4.85	7.50	0.000	108808	60.083	63.35	60.589	24.96
1M14	BASE	100Y-72H	64.022	6.37	7.50	0.000	679180	60.083	166.31	60.388	12.79
1M14	BASE	10Y-72H	62.142	5.48	7.50	0.000	213928	60.083	106.56	61.455	12.86
1M15	BASE	100Y-72H	70.116	6.08	7.50	0.000	588749	60.000	179.18	60.933	25.60
1M15	BASE	10Y-72H	64.258	5.05	7.50	0.000	330715	60.000	111.08	61.115	22.81

SOUTH BROWARD DRAINAGE DISTRICT
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Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
1M16	BASE	100Y-72H	72.000	5.82	7.50	0.000	142202	60.000	101.77	60.226	30.74
1M16	BASE	10Y-72H	72.000	4.80	7.50	0.000	81174	60.000	64.04	60.244	25.31
1M17	BASE	100Y-72H	61.300	6.07	7.50	0.000	269172	60.000	134.15	60.325	25.21
1M17	BASE	10Y-72H	60.915	5.15	7.50	0.000	154892	60.000	83.48	60.621	22.41
1N01	BASE	100Y-72H	72.000	5.70	7.50	0.000	3764385	60.000	799.99	62.026	52.96
1N01	BASE	10Y-72H	72.000	4.66	7.50	0.000	2953405	60.000	494.16	62.430	40.26
1O01	BASE	100Y-72H	72.000	6.18	7.50	0.000	1213037	60.500	149.96	66.680	2.34
1O01	BASE	10Y-72H	72.000	5.16	7.50	0.000	661532	60.500	79.75	65.396	2.31
1O02	BASE	100Y-72H	72.000	5.89	7.50	0.000	702796	60.000	134.29	62.230	5.99
1O02	BASE	10Y-72H	72.000	4.91	7.50	0.000	404944	60.000	73.32	61.935	4.06
1P01	BASE	100Y-72H	73.968	5.80	7.50	0.000	2890143	60.000	549.68	50.230	39.66
1P01	BASE	10Y-72H	72.000	4.81	7.50	0.000	2268401	60.000	335.40	85.000	44.77
1P02	BASE	100Y-72H	73.904	5.80	7.50	0.000	2632882	60.000	573.05	60.071	72.18
1P02	BASE	10Y-72H	72.000	4.81	7.50	0.000	2060132	60.000	346.94	60.055	59.94
1P03	BASE	100Y-72H	73.899	5.80	7.50	0.000	454296	60.000	103.14	61.042	17.83
1P03	BASE	10Y-72H	72.000	4.81	7.50	0.000	260186	60.000	58.83	60.897	12.56
1Q01	BASE	100Y-72H	72.000	5.83	7.50	0.000	1655518	60.000	508.12	60.282	17.70
1Q01	BASE	10Y-72H	72.000	4.85	7.50	0.000	1434528	60.000	318.88	60.278	14.73
1Q02	BASE	100Y-72H	73.702	5.80	7.50	0.000	3117678	60.083	219.46	52.019	33.94
1Q02	BASE	10Y-72H	72.248	4.82	7.50	0.000	2047746	60.083	150.95	63.545	36.28
1Q03	BASE	100Y-72H	72.000	5.82	7.50	0.001	3570124	60.000	816.86	61.513	112.61
1Q03	BASE	10Y-72H	72.000	4.84	7.50	0.001	3013798	60.000	514.52	61.743	90.84
1R01	BASE	100Y-72H	72.000	6.09	7.50	0.000	965616	60.000	239.37	60.263	49.09
1R01	BASE	10Y-72H	68.236	5.06	7.50	0.000	399862	60.000	144.62	60.332	38.70
1R02	BASE	100Y-72H	72.000	6.08	7.50	0.000	2044621	60.000	327.05	64.979	19.63
1R02	BASE	10Y-72H	68.550	5.05	7.50	0.000	1237161	60.000	196.60	63.904	19.19
1R03	BASE	100Y-72H	72.000	5.95	7.50	0.000	1230396	60.000	333.06	60.724	45.02
1R03	BASE	10Y-72H	72.000	4.94	7.50	0.000	729651	60.000	203.55	61.047	36.07
1R12	BASE	100Y-72H	72.000	5.96	7.50	0.000	250143	60.000	67.08	60.258	11.41
1R12	BASE	10Y-72H	72.000	4.94	7.50	0.000	118320	60.000	37.53	60.286	8.17
1V09	BASE	100Y-72H	80.000	4.96	7.50	0.000	5890454	60.000	728.28	61.889	1.02
1V09	BASE	10Y-72H	77.803	4.05	7.50	0.000	4875292	60.000	430.98	85.000	0.93
2FOX1U	BASE	100Y-72H	64.377	5.86	8.00	-0.000	509653	60.104	189.94	62.500	75.31
2FOX1U	BASE	10Y-72H	63.338	4.68	8.00	-0.000	470192	59.824	206.17	59.826	68.21
2FOX2A	BASE	100Y-72H	64.557	5.96	8.00	0.042	172	60.298	55.65	60.085	25.45
2FOX2A	BASE	10Y-72H	62.875	4.79	8.00	-0.005	172	60.083	16.01	60.085	16.21
2FOX2B	BASE	100Y-72H	64.116	5.90	8.00	0.015	4255	60.167	56.60	60.298	59.16

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Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
2FOX2B	BASE	10Y-72H	63.204	4.70	8.00	0.015	2788	60.167	35.36	60.257	35.19
2FOX2C	BASE	100Y-72H	64.113	5.90	8.00	0.007	5498	60.167	32.45	60.224	29.46
2FOX2C	BASE	10Y-72H	63.200	4.70	8.00	0.007	3557	60.167	19.67	60.189	18.71
2FOX2D	BASE	100Y-72H	64.356	5.86	8.00	0.025	4195	60.000	37.25	60.010	35.31
2FOX2D	BASE	10Y-72H	63.340	4.68	8.00	0.025	2631	60.000	22.68	60.007	22.38
2FOX2E	BASE	100Y-72H	60.050	5.92	8.00	0.039	9796	60.000	130.64	60.019	122.52
2FOX2E	BASE	10Y-72H	63.341	4.68	8.00	0.039	6043	60.000	79.52	60.012	78.01
2FOX2Z	BASE	100Y-72H	64.131	5.90	0.00	0.040	135	0.013	9.95	62.022	34.42
2FOX2Z	BASE	10Y-72H	63.177	4.71	0.00	0.040	135	0.013	9.95	0.134	10.13
2I18	BASE	100Y-72H	72.000	5.80	7.50	0.000	2255999	60.000	399.17	60.723	64.10
2I18	BASE	10Y-72H	72.000	4.79	7.50	0.000	1483978	60.000	237.93	60.538	43.93
2J17	BASE	100Y-72H	72.000	5.80	7.50	0.000	6706194	60.500	1150.41	61.247	110.19
2J17	BASE	10Y-72H	72.000	4.78	7.50	0.000	4347656	60.500	672.47	61.650	63.68
2L12	BASE	100Y-72H	72.000	5.82	7.50	0.000	291789	60.000	86.16	60.278	8.13
2L12	BASE	10Y-72H	72.000	4.81	7.50	0.000	171912	60.000	49.49	60.319	6.73
2M12	BASE	100Y-72H	68.150	6.73	7.50	0.000	3458614	60.000	508.03	68.150	28.68
2M12	BASE	10Y-72H	72.000	5.80	7.50	0.000	1598510	60.000	324.30	0.000	0.00
2M18	BASE	100Y-72H	72.000	5.84	7.50	0.002	144815	60.500	282.06	60.621	245.18
2M18	BASE	10Y-72H	72.000	4.81	7.50	0.002	134720	60.500	170.59	60.574	152.23
2N02	BASE	100Y-72H	72.000	5.84	7.50	0.000	2886883	60.500	345.19	68.823	7.05
2N02	BASE	10Y-72H	72.000	4.85	7.50	0.000	1916521	60.500	197.27	67.154	7.13
2N03	BASE	100Y-72H	72.000	5.83	7.50	0.000	1827012	60.417	256.24	67.180	15.79
2N03	BASE	10Y-72H	72.000	4.85	7.50	0.000	1313523	60.417	150.56	65.844	14.44
2O03	BASE	100Y-72H	73.651	5.78	7.50	0.000	784994	60.000	154.25	60.694	15.10
2O03	BASE	10Y-72H	72.000	4.78	7.50	0.000	456334	60.000	84.68	60.566	10.36
2O08	BASE	100Y-72H	72.000	5.80	7.50	0.000	1563848	60.000	199.49	65.962	17.88
2O08	BASE	10Y-72H	83.037	4.78	7.50	0.000	925817	60.000	112.30	61.417	2.47
2O14	BASE	100Y-72H	72.000	5.80	7.50	0.000	230845	60.083	77.34	60.761	34.15
2O14	BASE	10Y-72H	64.648	5.33	7.50	0.000	172366	60.083	44.42	61.097	2.70
2O15	BASE	100Y-72H	72.001	5.80	7.50	0.000	202116	60.659	48.52	61.354	25.66
2O15	BASE	10Y-72H	74.607	4.97	7.50	0.000	111735	60.000	15.97	66.801	1.61
2O16	BASE	100Y-72H	72.002	5.80	7.50	0.000	146708	61.328	31.02	61.728	19.50
2O16	BASE	10Y-72H	76.839	4.94	7.50	0.000	96305	60.000	10.22	74.143	1.31
2O17	BASE	100Y-72H	72.000	5.80	7.50	0.000	60342	61.728	21.12	61.782	18.94
2O17	BASE	10Y-72H	78.759	4.90	7.50	0.000	39433	60.000	2.22	74.200	1.28
2O18	BASE	100Y-72H	72.000	5.80	7.50	0.000	139100	60.000	52.29	62.099	20.94
2O18	BASE	10Y-72H	80.069	4.88	7.50	0.000	79822	60.000	29.86	60.322	4.41

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Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
2019	BASE	100Y-72H	72.000	5.80	7.50	0.000	94470	62.092	22.84	62.390	20.74
2019	BASE	10Y-72H	81.641	4.85	7.50	0.000	60569	60.000	9.89	60.978	2.17
2020	BASE	100Y-72H	72.002	5.80	7.50	0.000	259240	60.000	37.10	63.926	18.09
2020	BASE	10Y-72H	83.328	4.81	7.50	0.000	164630	60.000	18.24	83.680	1.12
2021	BASE	100Y-72H	72.002	5.80	7.50	0.000	202061	60.000	29.42	60.240	1.46
2021	BASE	10Y-72H	83.028	4.78	7.50	0.000	106952	60.000	13.97	5.308	0.02
2022	BASE	100Y-72H	72.005	5.80	7.50	0.000	146675	60.000	15.33	66.117	0.15
2022	BASE	10Y-72H	83.037	4.78	7.50	0.000	92287	60.000	7.70	5.534	0.02
2023	BASE	100Y-72H	72.011	5.80	7.50	0.000	345549	60.000	37.63	66.121	14.39
2023	BASE	10Y-72H	72.941	4.77	7.50	0.000	216672	60.000	19.15	85.000	1.53
2024	BASE	100Y-72H	72.017	5.80	7.50	0.000	146665	60.000	18.69	66.029	8.95
2024	BASE	10Y-72H	72.428	4.77	7.50	0.000	92022	60.000	8.60	85.000	1.76
2025	BASE	100Y-72H	72.018	5.80	7.50	0.000	43415	66.029	9.26	66.413	5.36
2025	BASE	10Y-72H	72.000	4.78	7.50	0.000	27113	85.000	1.76	85.000	1.88
2R04	BASE	100Y-72H	60.883	6.58	8.00	-0.033	277862	60.083	119.28	60.099	58.85
2R04	BASE	10Y-72H	60.520	5.37	8.00	-0.033	40081	60.083	72.40	60.301	45.46
2R05	BASE	100Y-72H	62.128	6.06	8.00	0.000	108256	60.000	61.74	60.122	16.13
2R05	BASE	10Y-72H	61.074	5.00	8.00	0.000	54505	60.000	38.41	60.187	13.88
2R06	BASE	100Y-72H	62.249	5.97	8.00	0.000	156667	60.000	83.58	63.732	14.97
2R06	BASE	10Y-72H	61.298	4.94	8.00	0.000	101468	60.000	54.48	62.895	12.16
2R07	BASE	100Y-72H	61.799	5.84	8.00	0.000	191243	60.083	97.16	62.839	24.87
2R07	BASE	10Y-72H	61.287	4.85	8.00	0.000	104729	60.083	61.37	60.624	23.53
2R08	BASE	100Y-72H	61.654	5.54	8.00	0.000	198348	60.083	125.81	60.287	49.13
2R08	BASE	10Y-72H	61.367	4.57	8.00	0.000	130247	60.083	84.24	60.732	42.22
2R09	BASE	100Y-72H	72.000	5.46	8.00	0.000	340669	60.167	173.36	60.940	79.35
2R09	BASE	10Y-72H	72.000	4.41	8.00	0.000	235248	60.167	116.05	60.886	65.25
2R10	BASE	100Y-72H	72.000	5.43	8.00	-0.000	162368	60.167	131.55	60.237	112.04
2R10	BASE	10Y-72H	72.000	4.40	8.00	-0.000	113652	60.167	94.07	60.257	84.27
2R14	BASE	100Y-72H	61.445	5.84	8.00	0.000	100355	60.000	56.58	60.123	8.39
2R14	BASE	10Y-72H	60.938	4.85	8.00	0.000	54416	60.000	34.48	60.196	7.38
2R16	BASE	100Y-72H	61.103	6.34	8.00	-0.031	96084	60.000	46.10	0.002	34.47
2R16	BASE	10Y-72H	60.669	5.15	8.00	-0.031	35968	60.000	27.97	0.002	34.47
2R17	BASE	100Y-72H	61.174	6.34	8.00	-0.025	88534	0.000	0.00	0.003	9.01
2R17	BASE	10Y-72H	60.668	5.15	8.00	-0.025	12331	0.000	0.00	0.003	9.01
3I19	BASE	100Y-72H	62.302	6.66	7.50	0.000	698020	60.083	307.66	60.593	36.48
3I19	BASE	10Y-72H	61.611	5.42	7.50	0.000	390257	60.083	167.18	60.744	32.71

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Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
3I20	BASE	100Y-72H	72.000	6.02	7.50	0.000	1507773	60.000	237.61	62.967	30.87
3I20	BASE	10Y-72H	72.000	4.89	7.50	0.000	865933	60.000	146.21	62.902	26.90
3I21	BASE	100Y-72H	73.664	5.89	7.50	0.000	1049430	60.000	189.04	60.730	7.80
3I21	BASE	10Y-72H	72.000	4.86	7.50	0.000	695679	60.000	112.17	60.502	4.64
3I22	BASE	100Y-72H	73.664	5.89	7.50	0.000	561452	60.000	136.70	60.263	49.70
3I22	BASE	10Y-72H	72.000	4.86	7.50	0.000	348191	60.000	83.57	60.199	33.85
3J18	BASE	100Y-72H	64.961	5.78	7.50	0.000	2119454	60.167	359.17	63.540	38.82
3J18	BASE	10Y-72H	65.248	4.84	7.50	0.000	1214590	60.000	205.95	61.027	27.48
3J19	BASE	100Y-72H	72.001	5.78	7.50	0.000	9592	63.540	38.82	63.658	38.46
3J19	BASE	10Y-72H	72.003	4.76	7.50	0.000	9592	61.027	27.48	61.130	26.56
3J20	BASE	100Y-72H	72.177	5.77	7.50	0.000	9593	0.000	0.00	77.195	0.27
3J20	BASE	10Y-72H	72.017	4.75	7.50	0.000	9593	0.000	0.00	72.443	0.28
3J21	BASE	100Y-72H	72.173	5.77	7.50	0.000	9599	77.195	0.27	77.208	0.28
3J21	BASE	10Y-72H	72.017	4.75	7.50	0.000	9599	72.443	0.28	76.531	0.25
3J22	BASE	100Y-72H	72.167	5.77	7.50	0.000	9608	77.208	0.28	77.195	0.26
3J22	BASE	10Y-72H	72.018	4.75	7.50	0.000	9608	76.531	0.25	76.533	0.28
3L13	BASE	100Y-72H	72.000	6.11	7.50	0.000	2930075	60.000	477.02	65.077	18.58
3L13	BASE	10Y-72H	72.000	5.04	7.50	0.000	1757968	60.000	287.11	65.108	15.95
3L14	BASE	100Y-72H	72.000	6.09	7.50	0.000	2600857	60.000	462.84	63.047	35.38
3L14	BASE	10Y-72H	72.000	5.02	7.50	0.000	1441404	60.000	277.26	62.572	32.36
3L15	BASE	100Y-72H	72.000	6.12	7.50	0.000	442145	60.000	184.00	60.335	28.97
3L15	BASE	10Y-72H	72.000	5.05	7.50	0.000	244258	60.000	113.85	60.413	25.08
3004	BASE	100Y-72H	72.000	6.00	7.50	0.000	1046961	60.417	166.83	66.614	12.80
3004	BASE	10Y-72H	72.000	4.96	7.50	0.000	530351	60.417	96.44	64.400	12.54
3005	BASE	100Y-72H	72.000	5.95	7.50	0.000	1075296	60.500	155.89	63.546	24.79
3005	BASE	10Y-72H	72.000	4.92	7.50	0.000	590909	60.000	91.80	63.105	22.63
3006	BASE	100Y-72H	72.000	5.86	7.50	0.000	511163	60.000	166.06	61.255	42.04
3006	BASE	10Y-72H	72.000	4.85	7.50	0.000	319704	60.000	99.64	61.241	33.97
3007	BASE	100Y-72H	72.000	5.83	7.50	0.000	680706	60.000	235.82	60.523	50.16
3007	BASE	10Y-72H	72.000	4.83	7.50	0.000	505289	60.000	148.07	60.498	37.22
3010	BASE	100Y-72H	72.000	6.06	7.50	0.000	851621	60.000	146.27	74.635	3.91
3010	BASE	10Y-72H	68.750	5.01	7.50	0.000	453875	60.000	79.41	73.041	3.48
3011	BASE	100Y-72H	72.000	6.05	7.50	0.000	352331	60.000	125.07	60.242	19.75
3011	BASE	10Y-72H	68.422	5.00	7.50	0.000	179561	60.000	72.69	60.264	15.45
4J20	BASE	100Y-72H	72.000	5.80	7.50	0.000	656258	60.083	163.10	60.489	46.33
4J20	BASE	10Y-72H	72.000	4.79	7.50	0.000	430600	60.083	97.86	60.437	39.04
4J21	BASE	100Y-72H	72.000	5.81	7.50	0.000	567033	60.083	124.60	60.989	15.60

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Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
4J21	BASE	10Y-72H	72.000	4.79	7.50	0.000	384903	60.083	70.87	60.821	13.25
4J22	BASE	100Y-72H	72.000	5.81	7.50	0.000	494160	60.167	97.60	60.988	12.26
4J22	BASE	10Y-72H	72.000	4.79	7.50	0.000	328164	60.083	54.19	60.807	10.46
4009	BASE	100Y-72H	64.498	6.55	7.50	0.000	1589004	60.417	227.15	60.679	30.74
4009	BASE	10Y-72H	63.010	5.89	7.50	0.000	1067003	60.417	125.03	61.357	31.39
AVALON	BASE	100Y-72H	72.000	6.47	7.50	0.000	3161718	60.167	772.74	60.768	55.50
AVALON	BASE	10Y-72H	64.540	5.57	7.50	0.000	1288765	60.167	501.43	61.680	48.90
CCH	BASE	100Y-72H	61.738	7.94	9.00	-0.001	149370	60.333	41.02	61.509	13.83
CCH	BASE	10Y-72H	62.958	7.62	9.00	-0.001	138956	60.333	26.01	62.958	3.82
CONN	BASE	100Y-72H	61.087	6.29	6.50	-0.130	174	0.002	65.23	0.000	116.66
CONN	BASE	10Y-72H	60.637	5.09	6.50	-0.122	174	0.002	65.23	0.000	116.66
FAM	BASE	100Y-72H	64.979	5.99	8.00	-0.063	390775	60.250	64.69	0.000	53.09
FAM	BASE	10Y-72H	62.874	4.82	8.00	-0.063	252382	60.250	37.63	0.000	53.09
FU01	BASE	100Y-72H	78.053	5.30	7.50	0.000	8744	0.000	0.00	80.000	1.32
FU01	BASE	10Y-72H	72.000	4.23	7.50	0.000	8744	0.000	0.00	0.000	0.00
FU02	BASE	100Y-72H	78.053	5.30	7.50	0.000	392947	60.000	115.97	60.004	54.79
FU02	BASE	10Y-72H	72.000	4.23	7.50	0.000	342521	60.000	70.80	60.002	30.71
FU03	BASE	100Y-72H	78.018	5.29	7.50	-0.000	8786	60.004	54.79	60.008	53.22
FU03	BASE	10Y-72H	72.001	4.23	7.50	-0.000	8786	60.002	30.71	60.005	29.60
FU04	BASE	100Y-72H	77.980	5.27	7.50	0.000	107814	62.558	225.42	62.750	220.14
FU04	BASE	10Y-72H	72.000	4.22	7.50	0.000	104301	63.808	171.76	55.758	170.40
FU05	BASE	100Y-72H	77.983	5.27	7.50	0.000	692804	60.000	265.97	64.000	198.33
FU05	BASE	10Y-72H	72.000	4.22	7.50	0.000	615263	55.758	174.02	69.229	166.92
FU06	BASE	100Y-72H	77.989	5.27	7.50	0.000	95894	64.000	198.33	64.656	195.06
FU06	BASE	10Y-72H	72.000	4.22	7.50	0.000	93445	69.229	166.92	69.405	166.71
FV01	BASE	100Y-72H	79.258	5.16	7.50	0.000	636184	60.000	304.04	64.818	229.75
FV01	BASE	10Y-72H	72.000	4.11	7.50	0.000	556363	68.000	205.14	69.726	203.26
FV02	BASE	100Y-72H	79.261	5.16	7.50	-0.000	174778	64.818	229.75	56.670	230.88
FV02	BASE	10Y-72H	72.001	4.11	7.50	-0.000	164302	69.726	203.26	56.291	225.78
FV03	BASE	100Y-72H	79.265	5.16	7.50	0.000	78814	56.670	230.88	65.365	223.42
FV03	BASE	10Y-72H	72.001	4.11	7.50	0.000	72919	56.291	225.78	70.165	202.79
FV04	BASE	100Y-72H	80.000	4.84	7.50	-0.000	8815	65.365	223.42	65.378	223.20
FV04	BASE	10Y-72H	72.039	3.76	7.50	-0.000	8815	70.165	202.79	70.170	202.77
FV05	BASE	100Y-72H	80.000	4.72	7.50	-0.000	8782	65.378	223.20	65.387	222.99
FV05	BASE	10Y-72H	72.071	3.63	7.50	-0.000	8782	70.170	202.77	70.173	202.75
FV06	BASE	100Y-72H	80.000	4.59	7.50	0.000	8783	65.387	222.99	65.393	222.78
FV06	BASE	10Y-72H	72.122	3.50	7.50	0.000	8783	70.173	202.75	70.172	202.74

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Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
FV07	BASE	100Y-72H	80.000	4.48	7.50	0.000	47257	65.393	222.78	65.404	221.68
FV07	BASE	10Y-72H	60.345	3.42	7.50	-0.000	45442	70.172	202.74	70.149	202.65
FV08	BASE	100Y-72H	80.000	4.47	7.50	0.000	323551	65.405	223.21	65.471	215.77
FV08	BASE	10Y-72H	60.334	3.42	7.50	0.000	300978	70.190	203.30	70.095	202.72
FW01	BASE	100Y-72H	80.000	4.47	7.50	0.000	87366	65.471	215.77	65.493	213.73
FW01	BASE	10Y-72H	60.326	3.42	7.50	0.000	83168	70.095	202.72	72.357	202.57
FW02	BASE	100Y-72H	80.000	4.46	7.50	0.000	360053	59.917	220.02	65.604	207.10
FW02	BASE	10Y-72H	60.316	3.42	7.50	0.000	340011	70.144	203.30	72.603	202.66
FW03	BASE	100Y-72H	80.000	4.42	7.50	0.000	49555	65.604	207.10	65.616	205.94
FW03	BASE	10Y-72H	60.261	3.40	7.50	0.000	47294	72.603	202.66	72.634	202.67
FW04	BASE	100Y-72H	80.000	4.41	7.50	0.000	86541	65.616	205.94	65.638	203.91
FW04	BASE	10Y-72H	60.250	3.39	7.50	0.000	82672	72.634	202.67	72.691	202.70
FW05	BASE	100Y-72H	80.000	4.40	7.50	0.000	311242	59.833	212.32	65.726	198.46
FW05	BASE	10Y-72H	60.242	3.39	7.50	0.000	289121	69.755	203.13	72.978	202.82
FX01	BASE	100Y-72H	80.000	4.36	7.50	0.001	8924	65.726	198.46	65.730	198.24
FX01	BASE	10Y-72H	60.208	3.36	7.50	0.001	8924	72.978	202.82	72.990	202.83
FX02	BASE	100Y-72H	80.000	4.31	7.50	0.000	237025	59.833	225.77	59.673	195.15
FX02	BASE	10Y-72H	60.177	3.34	7.50	0.000	220287	68.000	203.44	85.000	203.52
FX03	BASE	100Y-72H	80.000	4.26	7.50	-0.000	44481	59.673	195.15	65.781	193.46
FX03	BASE	10Y-72H	60.165	3.30	7.50	-0.000	43176	85.000	203.52	85.000	203.71
FX04	BASE	100Y-72H	80.000	4.26	7.50	0.000	654488	60.000	332.24	60.000	223.59
FX04	BASE	10Y-72H	59.632	3.30	7.50	0.000	609712	60.000	250.11	60.001	222.40
FY01	BASE	100Y-72H	80.000	4.20	7.50	0.012	8770	60.000	223.59	41.847	222.00
FY01	BASE	10Y-72H	59.632	3.30	7.50	0.012	8770	60.001	222.40	55.440	222.00
FY02	BASE	100Y-72H	0.000	2.70	10.00	0.000	0	41.847	222.00	0.000	0.00
FY02	BASE	10Y-72H	0.000	2.70	10.00	0.000	0	55.440	222.00	0.000	0.00
GW	BASE	100Y-72H	0.000	2.70	2.70	0.000	0	61.738	1.93	0.000	0.00
GW	BASE	10Y-72H	0.000	2.70	2.70	0.000	0	62.958	1.79	0.000	0.00
JNC	BASE	100Y-72H	64.865	5.96	8.00	-0.005	296	0.000	53.09	0.006	41.38
JNC	BASE	10Y-72H	62.880	4.79	8.00	-0.005	296	0.000	53.09	0.006	41.38
MALL	BASE	100Y-72H	60.312	6.46	8.00	-0.004	120637	60.000	86.70	59.963	56.03
MALL	BASE	10Y-72H	60.160	5.37	8.00	-0.004	12472	60.000	55.04	60.118	45.15
MH3A	BASE	100Y-72H	62.387	6.02	0.00	0.110	167	0.002	67.73	62.388	66.78
MH3A	BASE	10Y-72H	60.766	4.75	0.00	-0.112	167	0.002	67.73	61.474	66.46
MH3B	BASE	100Y-72H	61.286	6.13	0.00	0.223	126	0.000	116.66	0.002	67.73
MH3B	BASE	10Y-72H	60.688	4.92	0.00	0.223	126	0.000	116.66	0.002	67.73

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Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
MH62	BASE	100Y-72H	64.560	6.03	0.00	0.029	180	0.006	41.38	59.499	67.33
MH62	BASE	10Y-72H	62.995	4.86	0.00	0.029	180	0.006	41.38	61.743	68.22
MH64A	BASE	100Y-72H	64.342	5.80	0.00	0.043	124	59.499	67.33	0.000	0.00
MH64A	BASE	10Y-72H	63.083	4.62	0.00	0.043	124	61.743	68.22	0.000	0.00
MH64B	BASE	100Y-72H	64.185	6.03	0.00	0.179	125	0.000	0.00	67.053	52.44
MH64B	BASE	10Y-72H	63.197	4.84	0.00	0.179	125	0.000	0.00	61.745	53.50
MIRLAKES	BASE	100Y-72H	72.000	6.59	7.50	0.000	5383971	60.167	827.47	55.667	16.55
MIRLAKES	BASE	10Y-72H	69.897	5.73	7.50	0.000	3282305	60.167	522.59	76.821	25.16
MPABC1	BASE	100Y-72H	72.000	6.68	7.50	0.000	4522093	60.083	924.98	0.000	0.00
MPABC1	BASE	10Y-72H	69.056	5.76	7.50	0.000	2146865	60.083	556.42	0.000	0.00
MPABC2	BASE	100Y-72H	72.000	6.62	7.50	0.002	1595839	60.042	401.44	59.978	36.31
MPABC2	BASE	10Y-72H	68.652	5.70	7.50	0.002	753073	60.000	225.69	60.024	29.98
MPABC3	BASE	100Y-72H	72.000	6.12	7.50	0.000	2676400	60.083	741.62	2.307	1.17
MPABC3	BASE	10Y-72H	68.787	5.18	7.50	0.000	1798675	60.167	423.80	3.198	1.03
MPABC4	BASE	100Y-72H	72.000	6.68	7.50	0.000	2159903	60.083	425.79	80.000	8.38
MPABC4	BASE	10Y-72H	69.874	5.77	7.50	0.000	1391359	60.083	272.51	85.000	11.81
MPC	BASE	100Y-72H	64.384	5.86	8.00	0.000	774990	60.250	219.55	61.593	104.05
MPC	BASE	10Y-72H	63.340	4.68	8.00	-0.000	315717	59.829	153.49	61.471	81.03
MPCPH1A	BASE	100Y-72H	72.558	5.43	7.50	0.000	1887690	60.858	109.77	38.755	49.03
MPCPH1A	BASE	10Y-72H	72.028	4.40	7.50	0.000	1219345	60.903	93.79	53.935	48.47
MPCPHIII	BASE	100Y-72H	72.000	6.12	7.50	0.000	3843200	60.083	900.46	60.155	119.31
MPCPHIII	BASE	10Y-72H	68.787	5.18	7.50	0.000	1986832	60.083	573.90	60.384	72.45
MPCPHV	BASE	100Y-72H	62.042	5.66	7.50	0.000	1860623	60.167	766.39	60.858	109.77
MPCPHV	BASE	10Y-72H	61.692	4.78	7.50	0.000	1127140	60.167	491.26	60.903	93.79
PJ01	BASE	100Y-72H	72.000	5.80	7.50	0.000	35676	0.000	0.00	64.316	4.11
PJ01	BASE	10Y-72H	72.000	4.78	7.50	0.000	33732	0.000	0.00	70.414	3.10
PJ02	BASE	100Y-72H	72.000	5.80	7.50	0.000	1034513	60.500	108.66	80.000	3.17
PJ02	BASE	10Y-72H	72.000	4.78	7.50	0.000	639079	60.500	58.44	85.000	3.27
PJ03	BASE	100Y-72H	72.002	5.80	7.50	0.000	57910	68.869	13.14	0.000	0.00
PJ03	BASE	10Y-72H	72.002	4.78	7.50	0.000	54708	85.000	12.89	85.000	13.16
PJ04	BASE	100Y-72H	72.003	5.80	7.50	0.000	55220	61.343	82.64	61.507	76.49
PJ04	BASE	10Y-72H	72.002	4.78	7.50	0.000	51913	61.509	54.81	62.828	52.30
PJ05	BASE	100Y-72H	72.118	5.80	7.50	0.000	897045	60.167	96.87	63.694	41.44
PJ05	BASE	10Y-72H	72.004	4.78	7.50	0.000	824002	60.786	62.97	64.208	32.85
PJ07	BASE	100Y-72H	72.117	5.80	7.50	0.000	84889	61.624	61.38	61.824	46.21
PJ07	BASE	10Y-72H	72.003	4.78	7.50	0.000	79807	64.717	33.64	64.718	32.57
PJ09	BASE	100Y-72H	72.116	5.80	7.50	0.000	650226	60.080	53.88	50.041	17.39

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Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
PJ09	BASE	10Y-72H	72.002	4.78	7.50	0.000	548443	60.173	30.28	64.567	14.77
PM01	BASE	100Y-72H	72.039	5.81	7.50	0.000	541184	60.083	310.25	60.867	169.76
PM01	BASE	10Y-72H	72.008	4.80	7.50	0.000	527878	60.056	204.60	60.167	113.81
PM01A	BASE	100Y-72H	72.000	5.83	7.50	0.000	540410	60.000	444.95	60.083	310.25
PM01A	BASE	10Y-72H	72.000	4.80	7.50	0.000	527469	60.000	383.06	60.056	204.60
PM02	BASE	100Y-72H	72.004	5.82	7.50	-0.004	9663	53.439	20.48	4.182	76.98
PM02	BASE	10Y-72H	72.001	4.80	7.50	-0.004	9663	63.942	17.06	6.293	77.01
PM03	BASE	100Y-72H	72.005	5.82	7.50	0.007	9637	4.182	76.98	53.423	20.26
PM03	BASE	10Y-72H	72.001	4.80	7.50	0.007	9637	6.293	77.01	63.954	16.66
PM04	BASE	100Y-72H	72.006	5.82	7.50	0.000	979313	60.250	118.78	52.018	36.47
PM04	BASE	10Y-72H	72.000	4.80	7.50	0.000	797120	60.250	72.19	64.385	21.95
PM09	BASE	100Y-72H	72.000	5.83	7.50	0.000	85627	54.167	39.80	53.252	38.84
PM09	BASE	10Y-72H	72.000	4.80	7.50	0.000	83404	63.769	25.63	63.801	23.86
PM11	BASE	100Y-72H	72.000	5.83	7.50	-0.000	84177	63.723	63.45	0.037	128.11
PM11	BASE	10Y-72H	72.000	4.80	7.50	-0.000	80568	63.622	55.48	0.037	128.11
PP06	BASE	100Y-72H	72.039	5.81	7.50	0.000	72773	60.863	175.25	61.255	168.98
PP06	BASE	10Y-72H	72.008	4.80	7.50	0.000	71537	60.175	116.46	60.913	109.20
PP07	BASE	100Y-72H	73.066	5.79	7.50	0.000	641760	60.167	307.82	60.342	197.27
PP07	BASE	10Y-72H	72.000	4.79	7.50	0.000	522836	60.123	217.47	60.239	145.24
PP08	BASE	100Y-72H	73.027	5.78	7.50	0.000	607658	60.120	239.73	60.661	132.05
PP08	BASE	10Y-72H	72.054	4.78	7.50	0.000	542029	60.083	177.30	85.000	107.76
PP09	BASE	100Y-72H	72.871	5.76	7.50	-0.001	66850	60.662	162.79	73.343	291.97
PP09	BASE	10Y-72H	72.056	4.76	7.50	0.000	65324	60.396	129.00	53.748	157.69
PP10	BASE	100Y-72H	72.870	5.76	7.50	0.000	125477	72.308	328.65	61.067	193.84
PP10	BASE	10Y-72H	72.056	4.76	7.50	-0.000	122477	53.748	173.37	65.782	159.28
PP11	BASE	100Y-72H	72.871	5.76	7.50	-0.000	69296	60.969	240.74	61.060	232.44
PP11	BASE	10Y-72H	72.056	4.76	7.50	0.000	68160	60.847	191.86	60.920	185.67
PROMENAD	BASE	100Y-72H	72.000	6.67	7.50	0.000	1762076	60.083	417.85	60.381	34.17
PROMENAD	BASE	10Y-72H	68.642	5.76	7.50	0.000	653642	60.083	268.15	61.700	21.34
PS04	BASE	100Y-72H	72.907	5.73	7.50	0.000	66352	60.952	405.73	61.015	397.60
PS04	BASE	10Y-72H	72.053	4.73	7.50	-0.000	65852	60.962	338.30	61.005	332.73
PS05	BASE	100Y-72H	72.914	5.73	7.50	0.000	65952	61.015	397.60	61.075	389.82
PS05	BASE	10Y-72H	72.053	4.73	7.50	0.000	65136	61.005	332.73	61.046	327.38
PS06	BASE	100Y-72H	73.190	5.57	7.50	0.000	1724867	60.685	414.13	80.000	252.75
PS06	BASE	10Y-72H	72.084	4.56	7.50	0.000	1506262	60.781	341.89	85.000	261.34
PS07	BASE	100Y-72H	73.179	5.57	7.50	0.000	1038246	60.083	299.00	80.000	257.35
PS07	BASE	10Y-72H	72.065	4.55	7.50	0.000	901016	85.000	261.34	85.000	266.88

SOUTH BROWARD DRAINAGE DISTRICT
 BASINS S-2, S-7 AND S-13 MAX STAGE REPORT
 TABLE II-B-15

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
PS08	BASE	100Y-72H	72.474	5.43	7.50	-0.001	76301	80.000	281.20	80.000	281.59
PS08	BASE	10Y-72H	72.001	4.39	7.50	-0.001	74272	85.000	286.81	85.000	287.29
PS09	BASE	100Y-72H	72.470	5.43	7.50	-0.001	85986	60.119	313.12	37.876	300.00
PS09	BASE	10Y-72H	72.001	4.39	7.50	-0.001	83424	60.497	307.87	53.124	300.00
PS10	BASE	100Y-72H	0.000	2.70	10.00	0.000	0	37.876	300.00	0.000	0.00
PS10	BASE	10Y-72H	0.000	2.70	10.00	0.000	0	53.124	300.00	0.000	0.00
RAC12	BASE	100Y-72H	72.000	5.44	7.50	0.000	3895150	60.000	725.64	73.399	24.43
RAC12	BASE	10Y-72H	72.000	4.48	7.50	0.000	3420891	60.000	456.33	73.170	12.71
RAC13	BASE	100Y-72H	72.000	5.42	7.50	0.000	1967775	60.000	381.40	65.551	39.96
RAC13	BASE	10Y-72H	72.000	4.47	7.50	0.000	1605089	60.000	232.08	72.000	19.05
STANDREW	BASE	100Y-72H	68.265	6.76	7.50	0.000	1316331	60.167	258.54	66.909	10.43
STANDREW	BASE	10Y-72H	63.891	5.90	7.50	0.000	614870	60.167	160.03	64.094	11.72
VOR1	BASE	100Y-72H	72.000	6.67	7.50	0.000	3776478	60.167	801.57	61.841	45.40
VOR1	BASE	10Y-72H	62.481	5.79	7.50	0.000	1565811	60.167	493.37	61.244	54.65
WETLAND	BASE	100Y-72H	64.379	5.86	7.50	0.000	784013	72.000	2.63	72.142	14.69
WETLAND	BASE	10Y-72H	63.335	4.68	7.50	0.000	758753	71.833	1.25	72.068	11.19
WTBL	BASE	100Y-72H	0.000	2.70	6.50	0.000	0	0.000	0.00	0.000	0.00
WTBL	BASE	10Y-72H	0.000	2.70	6.50	0.000	0	0.000	0.00	0.000	0.00

TABLE II-B-16

BASIN S-2, S-7 & S-13

72-HOUR NODAL STAGE REPORT

10-YEAR, 3-DAY STORM

100-YEAR, 3-DAY STORM

SOUTH BROWARD DRAINAGE DISTRICT
 BASINS S-2, S-7 AND S-13 72 HR NODAL STAGE REPORT FOR 10 YR 3 DAY STORM
 TABLE II-B-16

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10Y-72H	MH62	BASE	72.000	4.63	0.00	180	-27.27	65.51	-59.2	218.9
10Y-72H	MH64A	BASE	72.000	4.40	0.00	124	65.51	-73.78	218.9	-312.1
10Y-72H	MH64B	BASE	72.000	4.64	0.00	125	-73.78	50.68	-312.1	218.6
10Y-72H	MIRLAKES	BASE	72.000	5.73	7.50	3277152	0.00	16.49	120.6	28.0
10Y-72H	MPABC1	BASE	72.000	5.76	7.50	2141553	-16.66	0.00	87.1	0.0
10Y-72H	MPABC2	BASE	72.000	5.70	7.50	750342	-35.39	-28.64	-18.3	-48.7
10Y-72H	MPABC3	BASE	72.000	5.18	7.50	1796888	-65.73	-53.35	-34.6	-103.1
10Y-72H	MPABC4	BASE	72.000	5.77	7.50	1390625	0.00	7.00	54.0	-4.5
10Y-72H	MPC	BASE	72.000	4.50	8.00	310300	23.45	30.55	106.6	90.9
10Y-72H	MPCPH1A	BASE	72.000	4.40	7.50	1219340	12.85	12.26	79.2	40.2
10Y-72H	MPCPH1II	BASE	72.000	5.18	7.50	1982185	0.00	15.29	128.7	51.9
10Y-72H	MPCPHV	BASE	72.000	4.42	7.50	1043123	0.00	12.85	114.8	79.2
10Y-72H	PJ01	BASE	72.000	4.78	7.50	33732	0.00	-3.19	0.0	-1.9
10Y-72H	PJ02	BASE	72.000	4.78	7.50	639079	-3.19	1.91	15.9	-8.8
10Y-72H	PJ03	BASE	72.000	4.78	7.50	54708	11.05	0.00	1.4	-56.4
10Y-72H	PJ04	BASE	72.000	4.78	7.50	51913	-13.98	-2.96	-46.6	13.5
10Y-72H	PJ05	BASE	72.000	4.78	7.50	824001	-2.96	-15.86	23.7	-29.3
10Y-72H	PJ07	BASE	72.000	4.78	7.50	79807	-8.75	18.21	-20.1	9.8
10Y-72H	PJ09	BASE	72.000	4.78	7.50	548443	-1.84	-16.60	-9.5	-55.0
10Y-72H	PM01	BASE	72.000	4.80	7.50	527877	39.16	37.77	52.2	-156.8
10Y-72H	PM01A	BASE	72.000	4.80	7.50	527469	103.56	39.16	-37.8	52.2
10Y-72H	PM02	BASE	72.000	4.80	7.50	9663	-14.71	-14.73	-45.9	30.1
10Y-72H	PM03	BASE	72.000	4.80	7.50	9637	-14.73	-14.76	30.1	-109.0
10Y-72H	PM04	BASE	72.000	4.80	7.50	797120	1.93	2.78	-90.0	-47.8
10Y-72H	PM09	BASE	72.000	4.80	7.50	83404	2.78	1.66	-35.7	-66.7
10Y-72H	PM11	BASE	72.000	4.80	7.50	80568	25.46	95.83	-29.3	-128.6
10Y-72H	PP06	BASE	72.000	4.80	7.50	71536	40.65	40.36	-154.5	30.3
10Y-72H	PP07	BASE	72.000	4.79	7.50	522836	68.44	68.76	61.5	34.1
10Y-72H	PP08	BASE	72.000	4.78	7.50	542022	70.08	69.27	37.8	2.8
10Y-72H	PP09	BASE	72.000	4.76	7.50	65323	86.62	86.50	33.3	489.3
10Y-72H	PP10	BASE	72.000	4.76	7.50	122476	125.15	124.91	567.6	-245.7
10Y-72H	PP11	BASE	72.000	4.76	7.50	68159	143.02	142.89	-219.0	178.4
10Y-72H	PROMENAD	BASE	72.000	5.75	7.50	653642	-14.47	-7.48	32.8	-14.1
10Y-72H	PS04	BASE	72.000	4.73	7.50	65852	246.02	245.91	412.2	158.6
10Y-72H	PS05	BASE	72.000	4.73	7.50	65136	245.91	245.80	158.6	391.2
10Y-72H	PS06	BASE	72.000	4.56	7.50	1506251	245.80	244.96	399.9	312.2
10Y-72H	PS07	BASE	72.000	4.55	7.50	901015	244.96	245.23	323.5	310.4
10Y-72H	PS08	BASE	72.000	4.39	7.50	74272	269.51	269.48	409.0	167.2
10Y-72H	PS09	BASE	72.000	4.39	7.50	83424	300.04	300.00	258.1	468.0
10Y-72H	PS10	BASE	72.000	2.70	10.00	0	300.00	0.00	468.0	0.0
10Y-72H	RAC12	BASE	72.000	4.48	7.50	3420891	0.00	10.84	127.9	-4.9
10Y-72H	RAC13	BASE	72.000	4.47	7.50	1605089	10.84	19.05	76.3	16.3
10Y-72H	STANDREW	BASE	72.000	5.78	7.50	539187	0.00	5.54	34.7	9.2
10Y-72H	VOR1	BASE	72.000	5.75	7.50	1499620	-0.32	15.95	101.5	31.7
10Y-72H	WETLAND	BASE	72.000	4.50	7.50	754986	0.00	4.33	1.4	-29.8
10Y-72H	WTBL	BASE	72.000	2.70	6.50	0	0.00	0.00	0.0	0.0

SOUTH BROWARD DRAINAGE DISTRICT
 BASINS S-2, S-7 AND S-13 72 HR NODAL STAGE REPORT FOR 100 YR 3 DAY STORM
 TABLE II-B-16

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft ²	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
100Y-72H	MH62	BASE	72.000	5.88	0.00	180	-25.32	66.76	-61.8	227.4
100Y-72H	MH64A	BASE	72.000	5.64	0.00	124	66.76	-71.76	227.4	-321.8
100Y-72H	MH64B	BASE	72.000	5.87	0.00	125	-71.76	51.99	-321.8	225.2
100Y-72H	MIRLAKES	BASE	72.000	6.59	7.50	5383971	0.00	6.88	198.0	19.7
100Y-72H	MPABC1	BASE	72.000	6.68	7.50	4522091	-15.98	0.00	153.4	0.0
100Y-72H	MPABC2	BASE	72.000	6.62	7.50	1595839	-34.84	-27.71	-16.4	-70.3
100Y-72H	MPABC3	BASE	72.000	6.12	7.50	2676400	-63.41	-52.52	-33.4	-149.2
100Y-72H	MPABC4	BASE	72.000	6.68	7.50	2159903	0.00	5.63	86.4	-7.9
100Y-72H	MPC	BASE	72.000	5.72	8.00	699041	37.11	49.88	178.4	151.1
100Y-72H	MPCPH1A	BASE	72.000	5.43	7.50	1882949	15.43	7.04	118.1	44.5
100Y-72H	MPCPH1I	BASE	72.000	6.12	7.50	3843200	0.00	12.17	207.7	69.9
100Y-72H	MPCPHV	BASE	72.000	5.46	7.50	1649268	0.00	15.43	182.9	118.1
100Y-72H	PJ01	BASE	72.000	5.80	7.50	35676	0.00	-5.47	0.0	-5.6
100Y-72H	PJ02	BASE	72.000	5.80	7.50	1034513	-5.47	1.12	29.0	-11.5
100Y-72H	PJ03	BASE	72.000	5.80	7.50	57910	12.04	-12.84	9.2	-62.6
100Y-72H	PJ04	BASE	72.000	5.80	7.50	55220	-16.30	8.02	-17.6	52.7
100Y-72H	PJ05	BASE	72.000	5.80	7.50	897020	8.02	-10.20	69.3	4.7
100Y-72H	PJ07	BASE	72.000	5.80	7.50	84887	-4.35	22.32	26.0	37.8
100Y-72H	PJ09	BASE	72.000	5.80	7.50	650185	-3.88	-16.39	20.1	-30.5
100Y-72H	PM01	BASE	72.000	5.81	7.50	541179	66.21	62.58	198.3	40.8
100Y-72H	PM01A	BASE	72.000	5.83	7.50	540410	155.51	66.21	152.1	198.3
100Y-72H	PM02	BASE	72.000	5.82	7.50	9663	-14.91	-14.97	-14.7	32.9
100Y-72H	PM03	BASE	72.000	5.82	7.50	9637	-14.97	-15.03	32.9	-55.5
100Y-72H	PM04	BASE	72.000	5.82	7.50	979310	-2.50	-3.94	0.4	-5.7
100Y-72H	PM09	BASE	72.000	5.83	7.50	85627	-3.94	-7.45	15.8	-8.6
100Y-72H	PM11	BASE	72.000	5.83	7.50	84177	18.76	118.20	51.5	-24.6
100Y-72H	PP06	BASE	72.000	5.81	7.50	72773	65.36	64.84	47.0	165.0
100Y-72H	PP07	BASE	72.000	5.79	7.50	641397	71.44	69.70	241.5	202.6
100Y-72H	PP08	BASE	72.000	5.77	7.50	607391	71.29	67.50	217.1	173.2
100Y-72H	PP09	BASE	72.000	5.75	7.50	66845	87.42	261.05	212.7	712.8
100Y-72H	PP10	BASE	72.000	5.75	7.50	125469	298.13	-30.98	826.0	-44.3
100Y-72H	PP11	BASE	72.000	5.75	7.50	69295	-12.47	142.51	9.1	393.7
100Y-72H	PROMENAD	BASE	72.000	6.67	7.50	1762074	-13.64	-6.08	56.4	-12.4
100Y-72H	PS04	BASE	72.000	5.73	7.50	66352	241.34	240.24	733.5	557.7
100Y-72H	PS05	BASE	72.000	5.73	7.50	65952	240.24	239.84	557.7	717.9
100Y-72H	PS06	BASE	72.000	5.57	7.50	1722796	239.84	231.62	732.1	618.7
100Y-72H	PS07	BASE	72.000	5.56	7.50	1036857	231.62	227.85	637.2	593.3
100Y-72H	PS08	BASE	72.000	5.42	7.50	76298	250.85	250.51	723.5	557.2
100Y-72H	PS09	BASE	72.000	5.42	7.50	85982	300.39	300.00	708.3	849.2
100Y-72H	PS10	BASE	72.000	2.70	10.00	0	300.00	0.00	849.2	0.0
100Y-72H	RAC12	BASE	72.000	5.44	7.50	3895149	0.00	22.82	212.0	0.4
100Y-72H	RAC13	BASE	72.000	5.42	7.50	1967774	22.82	38.21	136.9	39.8
100Y-72H	STANDREW	BASE	72.000	6.74	7.50	1300471	0.00	8.54	58.7	13.4
100Y-72H	VOR1	BASE	72.000	6.67	7.50	3776475	-2.37	16.22	171.6	47.8
100Y-72H	WETLAND	BASE	72.000	5.72	7.50	780892	0.00	6.85	3.0	-47.2
100Y-72H	WTBL	BASE	72.000	2.70	6.50	0	0.00	0.00	0.0	0.0

SOUTH BROWARD DRAINAGE DISTRICT



BASIN S-3



BASIN S-3

DESCRIPTION

Basin S-3 is located in the south central quadrant of the District and encompasses over 9 square miles. This basin lies within the Cities of Pembroke Pines and Miramar and is bordered on the north by Pines Boulevard, on the east by Flamingo Road, on the south by the Florida Turnpike Extension and the SFWMD C-9 Canal, and on the west by SW 172nd Avenue and Interstate-75. The overall boundaries of the S-3 Basin and its existing facilities are shown in Figure II-C-1 and Table II-C-1 provides a summary of the basin characteristics.

The vast majority of the basin has been developed, and for those properties that are left to be developed, the required water management system is in place and operational.

Since 2013, the following improvements have been completed within the S-3 Basin:

S-3 Pump Station Improvements

- Installed a new concrete roof.
- Installed new roof-top mufflers for the engines.
- Installed a new garage access door and concrete pad.
- Installed new lighting and lightning protection system.
- Installed a new roof access ladder with a safety cage.
- Regraded and improved the canal bank on the downstream side of the pump station.
- Installed motors and automation for S-3 sluice gates.
- Installed cured-in-place pipe liners for free flow tubes.
- Installed cured-in-place pipe liners for S-3 pump tubes.
- Installed FabricForm revetment protection along the trash rack and by-pass gates (inflow side) at pump station.
- Rebuilt all three stormwater pumps.
- Installed cameras for security and operational purposes.
- Rebuilt the trash rack using wood planks.
- Upgraded the telemetry and control systems.

Basin-Wide Improvements

- Installed the 48" interconnect from the Duke Pembroke/Pembroke Harbor water management system ("Weiss" eastern parcel) to the Monarch Lakes outfall canal (Pipe No. 3-126)
- Installed FabricForm revetment protection and slope stabilization along the C-4 Canal upstream of the S-3 pump station.
- Dredged a portion of the C-4 Canal between Pembroke Road and the I-75 crossing.
- Completed miscellaneous boat ramp improvements.
- Installed revetment stabilization at miscellaneous lake interconnects.
- Performed miscellaneous tree removal work throughout the basin.
- Completed miscellaneous culvert inspections and culvert cleanings.

The following new developments and redevelopments have been completed:

- * Fairfield Inn, Pembroke Pointe A, Riviera Corporate Center, ALTIS Pembroke Gardens, Liberty Center 2, Pembroke Center, Progressive Insurance, United Technologies, 3Z Telecom, Holiday Inn Miramar, Extra Space Storage, The Edison, and 16000 Pines Market.

The following infrastructure improvements are proposed for the S-3 Basin:

- Install a fire suppression system inside the S-3 pump station.
- Continue to rehabilitate aging infrastructure (i.e.: primary drainage culverts), as needed.
- Continued dredging and deepening of SBDD primary and secondary canals.
- Continued hardening of lake banks and headwalls at critical lake interconnect locations.
- Continued boat ramps installations and improvements for improved access by SBDD maintenance crews, as needed.
- Miscellaneous culvert inspections, repairs/replacements.

METHODOLOGY

The vast majority of property in Basin S-3 has been developed and for the majority of those properties remaining to be developed, the basin/overall water management system has been constructed and is operational. The developments within Basin S-3 have been designed with interconnected lake and canal systems discharging to the District's primary Canal No. 4, which conveys stormwater from Basin S-3 south to the SFWMD C-9 Canal via the S-3 Pump Station with a total allowable permitted discharge of 200 cfs. Water quality requirements and discharge rates from the S-3 Basin are regulated by the SFWMD Permit # 06-00095-S.

The control water elevation for the S-3 basin is 3.0' NGVD with the exception of Lido Isles, which has a control water elevation of 3.5' NGVD that is maintained through a control structure leaving from that development (CS No. 3-124). Figure II-C-3 shows the differing control water elevations within the basin.

Figure II-C-1 depicts the existing facilities in Basin S-3 and Table II-C-2 provides the existing culvert schedule for the basin. Figures II-C-4, II-C-5, II-C-6, and II-C-7 show the existing flood gates, control structures, staff gauges, and fish guards within Basin S-3, respectively, with corresponding Schedule Tables II-C-3, II-C-4, II-C-5, and II-C-6.

MODEL ANALYSIS

The AdICPR modeling for the Basin S-3 was updated in 2012 as part of the 2013 Facilities Report update.

As mentioned above, the water management system for the entire S-3 basin is in place and operational. In the 2005 Facilities Report update it was noted that the re-routing of a portion of the discharge leading from the “Weiss” eastern parcel to the Monarch Lakes outfall canal would reduce the peak stage durations in the Century Village water management system caused by the conversion of the Washington Street canal to twin 66” diameter culverts.

The AdICPR model for the S-3 Basin was further updated to evaluate this interconnect with a 48” diameter culvert, and the 48” diameter interconnect was shown to achieve the desired result of reducing the duration of peak stages in the northeast quadrant of the basin, while limiting any adverse impacts to the downstream stages. This improvement was completed in 2014 and computer simulations of the 48” interconnect were performed for the 10-year, 3-day and 100-year, 3-day storm events.

Figure II-C-8 shows the overall AdICPR nodal diagram for Basin S-3 and Tables II-C-7 and II-C-8 list the AdICPR output data for maximum stages and 72-hour stages at each node within the basin.

SUMMARY & RECOMMENDATIONS

The model results from both 2005 and 2013 indicate that Basin S-3 is adequately served under the ultimate developed basin condition and meets the District’s adopted Level of Service for the 10-year and 100-year storm events. The 10-year, 3-day and 100-year, 3-day flood stages are maintained below minimum road crown and minimum finished floor elevations respectively. The 2013 analysis shows that the duration of peak stages is reduced in the northeast quadrant of the basin based upon the installation of the 48” basin interconnect.

The following basin improvements are recommended to maintain the continued level of service and to provide greater flexibility in the water management operations of Basin S-3:

- Installation of an adjustable sluice gate, telemetry system, and 60” culvert between the Century Village water management system (SBDD Basin S-3) and the Flamingo Road Canal (SBDD Basin S-7) to provide a basin interconnect between the S-3 and S-7 basins.
- All undeveloped areas and redevelopment projects shall provide a minimum of 20% water management area, or equivalent.

TABLE II-C-1

**SUMMARY OF BASIN CHARACTERISTICS
BASIN S-3**

GENERAL

TOTAL BASIN AREA	(AC)	5810
TOTAL PERVIOUS AREA	(AC)	2577 (44.3%)
TOTAL IMPERVIOUS AREA	(AC)	2124 (36.6%)
LAKE AREA	(AC)	1109 (19.1%)
DESIGN CONTROL ELEVATION	(FT NGVD)	3.00
Lido Isles (Figure II-C-3)	(FT NGVD)	3.50
10-YEAR 3-DAY FLOOD ELEVATION (MINIMUM ROAD CROWN)	(FT NGVD)	6.50
100-YEAR 3-DAY FLOOD ELEVATION (MINIMUM FINISHED FLOOR ELEVATION)	(FT NGVD)	8.00
<u>Note:</u> All undeveloped areas are required to have a minimum of 20% water management area and to comply with all SFWMD and SBDD minimum design criteria.		

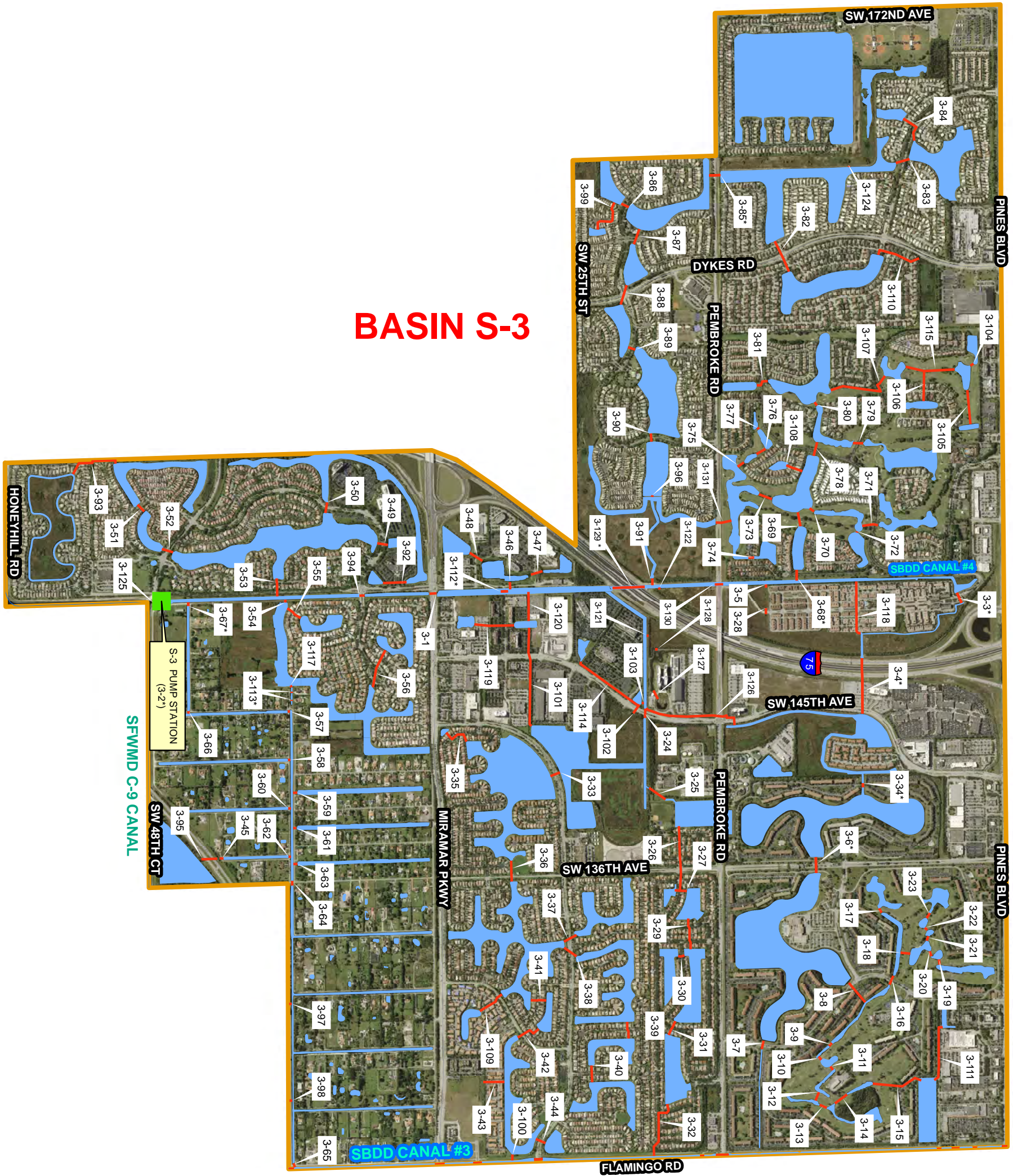
S.F.W.M.D. PERMIT CONDITIONS (PERMIT # 06-00095-S)

DISCHARGE CONTROL STRUCTURE		PUMP STA
DISCHARGE CAPACITY	(CFS)	200
RECEIVING WATER		SFWMD C-9

CANAL

CANAL NAME		SBDD No 4
LENGTH	(FT)	15,000
MANNING'S "n"		0.033





BASIN S-3



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-3 EXISTING FACILITIES MAP

2019 UPDATE

Legend

-  SFWMD Canal
-  SBDD Pump Station
-  Culverts
-  Water Bodies



0 1,000 2,000 4,000
Feet

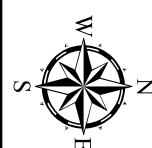


FIGURE II-C-1

TABLE II-C-2

BASIN S-3 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
3-1	SW 148th Ave. & Miramar Pkwy.	SW 148th Ave. & Miramar Pkwy.	146 X 225	CMP	ELLIP.	131	
3-2.1	S-3 Pump Station	14801 Bass Creek Rd.	42	FIBERGLASS	CIRC.	56	45K GPM, Pump # 1
3-2.2	S-3 Pump Station	14801 Bass Creek Rd.	42	FIBERGLASS	CIRC.	56	45K GPM, Pump # 2
3-2.3	S-3 Pump Station	14801 Bass Creek Rd.	42	FIBERGLASS	CIRC.	56	45K GPM, Pump # 3
3-2.4	S-3 Pump Station	14801 Bass Creek Rd.	42	FIBERGLASS	CIRC.	56	Flood Gate
3-2.5	S-3 Pump Station	14801 Bass Creek Rd.	42	FIBERGLASS	CIRC.	56	Flood Gate
3-3.1	Cobblestone	SW 147th Ave. at Guard Gate	72	RCP	CIRC.	208	
3-3.2	Cobblestone	SW 147th Ave. at Guard Gate	72	RCP	CIRC.	208	
3-4.1	Cobblestone / Pembroke Gardens	I-75 & Cobblestone	60	RCP	CIRC.	1066	
3-4.2	Cobblestone / Pembroke Gardens	I-75 & Cobblestone	60	RCP	CIRC.	1066	
3-5	Cobblestone	SW 147th Ter. & SW 15th Ct.	60	RCP	CIRC.	65	Control Structure
3-6.1	Century Village	1251 SW 135th Ter.	96	CMP	CIRC.	291	
3-6.2	Century Village	1251 SW 135th Ter.	96	CMP	CIRC.	291	
3-7	Century Village	Flamingo West Dr. & SW 15th Ct.	96	CMP	CIRC.	158	
3-8	Century Village	Century Village Golf Course	36	CMP	CIRC.	467	
3-9	Century Village	Century Village Golf Course	24	RCP	CIRC.	74	
3-10	Century Village	Century Village Golf Course	24	RCP	CIRC.	75	
3-11	Century Village	Century Village Golf Course	24	RCP	CIRC.	84	
3-12	Century Village	Century Village Golf Course	24	RCP	CIRC.	166	
3-13	Century Village	Century Village Golf Course	24	RCP	CIRC.	140	
3-14	Century Village	Century Village Golf Course	18	CMP	CIRC.	279	
3-15	Century Village	Flamingo Plaza Lake	48	CMP	CIRC.	955	Control Structure
3-16	Century Village	Century Village Golf Course	42	CMP	CIRC.	175	
3-17	Century Village	Century Village Golf Course	24	CMP	CIRC.	93	
3-18	Century Village	Century Village Golf Course	42	CMP	CIRC.	182	
3-19	Century Village	Century Village Golf Course	24	CMP	CIRC.	98	
3-20	Century Village	Century Village Golf Course	24	CMP	CIRC.	98	
3-21	Century Village	Century Village Golf Course	24	CMP	CIRC.	88	
3-22	Century Village	Century Village Golf Course	24	CMP	CIRC.	60	
3-23	Century Village	Century Village Golf Course	24	CMP	CIRC.	115	
3-24	Monarch Lakes - 145th Ave.	SW 145th Ave. & Monarch Lakes Outfall Canal	84	RCP	CIRC.	171	
3-25	Trilogy - Outfall to Monarch Lakes	Trilogy Outfall at C.O.M. Wastewater Plant	60	RCP	CIRC.	370	

TABLE II-C-2

BASIN S-3 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
3-26	Trilogy - Outfall to Park	13501 SW 19th St.	48	RCP	CIRC.	1198	
3-27	Trilogy - (N) / (S) Pipe	13501 SW 19th St.	24 & 48	RCP	CIRC.	224	
3-28	Cobblestone	SW 147th Ave. & SW 15th Ct.	60	RCP	CIRC.	114	
3-29	Trilogy	1821 SW 133rd Ave.	48	RCP	CIRC.	586	
3-30	Trilogy	13211 SW 19th Dr.	24	RCP	CIRC.	119	
3-31	Trilogy	1921 SW 129th Ter.	30	RCP	CIRC.	286	
3-32	Trilogy - Outfall to Flamingo	1940 SW 126th Ave.	30	RCP	CIRC.	1163	Flood Gate
3-33	Monarch Lakes	SW 140th Ave. & Monarch Lakes Blvd.	72	RCP	CIRC.	191	
3-34.1	Century Village - Outfall	800 SW 142nd Ave.	96	CMP	CIRC.	71	
3-34.2	Century Village - Outfall	800 SW 142nd Ave.	96	CMP	CIRC.	71	
3-35	Monarch Lakes - Catalina Bay	SW 142nd Ave. & SW 31st St.	48	RCP	CIRC.	552	
3-36	Monarch Lakes	SW 136th Ave. & SW 28th St.	60	RCP	CIRC.	387	
3-37	Monarch Lakes	SW 132nd Ter. & Monarch Lakes Blvd.	48	RCP	CIRC.	264	
3-38	Monarch Lakes	SW 132nd Ter. & Monarch Lakes Blvd.	48	RCP	CIRC.	281	
3-39	Monarch Lakes - Portofino North	SW 130th Ter. & SW 22nd St.	48	RCP	CIRC.	313	
3-40	Monarch Lakes - Portofino North	SW 129th Ave. & SW 23rd St.	48	RCP	CIRC.	309	
3-41	Monarch Lakes - Biltmore Estates	SW 131st Ter. & SW 28th St.	48	RCP	CIRC.	288	
3-42	Monarch Lakes - Biltmore Estates	SW 130th Ave. & SW 28th St.	48	RCP	CIRC.	475	
3-43	Monarch Lakes - Harbour Lakes Townhomes	SW 128th Way & SW 28th Ct.	48	RCP	CIRC.	375	
3-44	Monarch Lakes	SW 125th Ave. & Monarch Lakes Blvd.	48	RCP	CIRC.	197	
3-45	Country Club Ranches	137th Ave. & Turnpike	36	RCP	CIRC.	75	
3-46	Huntington Corporate Park (N)	SW 148th Ave. (S) of C.O.M. Fire Station	48	RCP	CIRC.	137	
3-47	Huntington Corporate Park (N)	SW 148th Ave. - NBC6 Driveway	48	RCP / CAP	CIRC.	225	
3-48	Huntington Corporate Park (N)	SW 149th Ave. & Keith Cir.	48	RCP	CIRC.	280	
3-49	Huntington	SW 150th Ave & Lakeside Dr.	72	RCP	CIRC.	200	
3-50	Huntington	Lakeside Dr. & SW 38th St.	72	RCP	CIRC.	201	
3-51	Huntington - Claremont	15171 SW 49th Ct.	48	RCP	CIRC.	174	
3-52	Huntington	SW 149th Ter. & Bass Creek Rd.	48	RCP	CIRC.	213	
3-53	Huntington - Outfall	SW 148th Ave. & (N) of Bass Creek Rd.	72	RCP	CIRC.	335	
3-54	Windsor Palms - Outfall	SW 148th Ave. & (N) of Bass Creek Rd.	48	RCP	CIRC.	52	Control Structure
3-55	Windsor Palms	SW 147th Ave. & SW 41st St.	48	RCP	CIRC.	308	
3-56	Windsor Palms	SW 144th Ave. & SW 36th St.	48	RCP	CIRC.	729	

TABLE II-C-2

BASIN S-3 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
3-57	Country Club Ranches	SW 143rd Ave. & Blue Gill Rd.	60	CMP	CIRC.	43	
3-58	Country Club Ranches	SW 141st Ave. & Blue Gill Rd.	36	CMP	CIRC.	46	
3-59	Country Club Ranches	SW 140th Ave. & Blue Gill Rd.	36	CMP	CIRC.	75	
3-60	Country Club Ranches	SW 139th Ave. & Blue Gill Rd.	36	CMP	CIRC.	48	
3-61	Country Club Ranches	SW 138th Ave. & Blue Gill Rd.	36	CMP	CIRC.	58	
3-62	Country Club Ranches	SW 137th Ave. & Blue Gill Rd.	36	CMP	CIRC.	47	
3-63	Country Club Ranches	SW 137th Ave. & Blue Gill Rd.	36	CMP	CIRC.	79	
3-64	Country Club Ranches	SW 136th Ave. & Blue Gill Rd.	60	CMP	CIRC.	86	
3-65	Country Club Ranches	Flamingo Rd. & Blue Gill Rd.	60	CAP	CIRC.	77	
3-66	Country Club Ranches	SW 143rd Ave. & SW 47th St.	60	CMP	CIRC.	45	
3-67.1	Country Club Ranches - Outfall	SW 148th Ave. & SW 47th St.	54	CMP	CIRC.	65	
3-67.2	Country Club Ranches - Outfall	SW 148th Ave. & SW 47th St.	54	CMP	CIRC.	65	
3-68.1	Grand Palms - Outfall	Sabal Palm Dr. & (N) of SW 15th St.	24	CAP	CIRC.	199	
3-68.2	Grand Palms - Outfall	Sabal Palm Dr. & (N) of SW 15th St.	15	CAP	CIRC.	199	
3-69	Grand Palms Golf Course	Grand Palms Golf Course	24	CAP	CIRC.	263	
3-70	Grand Palms Golf Course	Grand Palms Golf Course	24	CAP	CIRC.	100	
3-71	Grand Palms Golf Course	Grand Palms Golf Course	24	CAP	CIRC.	300	
3-72	Grand Palms Golf Course	Grand Palms Golf Course	24	CAP	CIRC.	25	
3-73	Grand Palms Golf Course	Grand Palms Golf Course	24	CAP	CIRC.	256	
3-74	Grand Palms Golf Course	SW 16th St. & SW 149th Ave.	24	CAP	CIRC.	105	
3-75	Grand Palms Golf Course	Grand Palms Golf Course	24	CAP	CIRC.	143	
3-76	Grand Palms Golf Course	Grand Palms Golf Course	24	CAP	CIRC.	193	
3-77	Grand Palms Golf Course	Grand Palms Golf Course	24	CAP	CIRC.	41	
3-78	Grand Palms Golf Course	Grand Palms Golf Course	24	CAP	CIRC.	260	
3-79	Grand Palms Golf Course	Grand Palms Golf Course	24	CAP	CIRC.	188	
3-80	Grand Palms Golf Course	Grand Palms Golf Course	24	CAP	CIRC.	73	
3-81	Grand Palms Golf Course	Grand Palms Golf Course	24	CAP	CIRC.	254	
3-82	Pembroke Shores	Dykes Rd. & SW 12th St.	72	RCP	CIRC.	620	
3-83	Pembroke Shores	SW 165th Ave. & SW 5th St.	60	RCP	CIRC.	262	
3-84	Pembroke Shores	SW 167th Ave. & SW 5th St.	48	RCP	CIRC.	561	
3-85.1	Pembroke Shores	SW 165th Ave. & Pembroke Rd.	72	RCP	CIRC.	212	
3-85.2	Pembroke Shores	SW 165th Ave. & Pembroke Rd.	72	RCP	CIRC.	212	

TABLE II-C-2

BASIN S-3 EXISTING CULVERT SCHEDULE

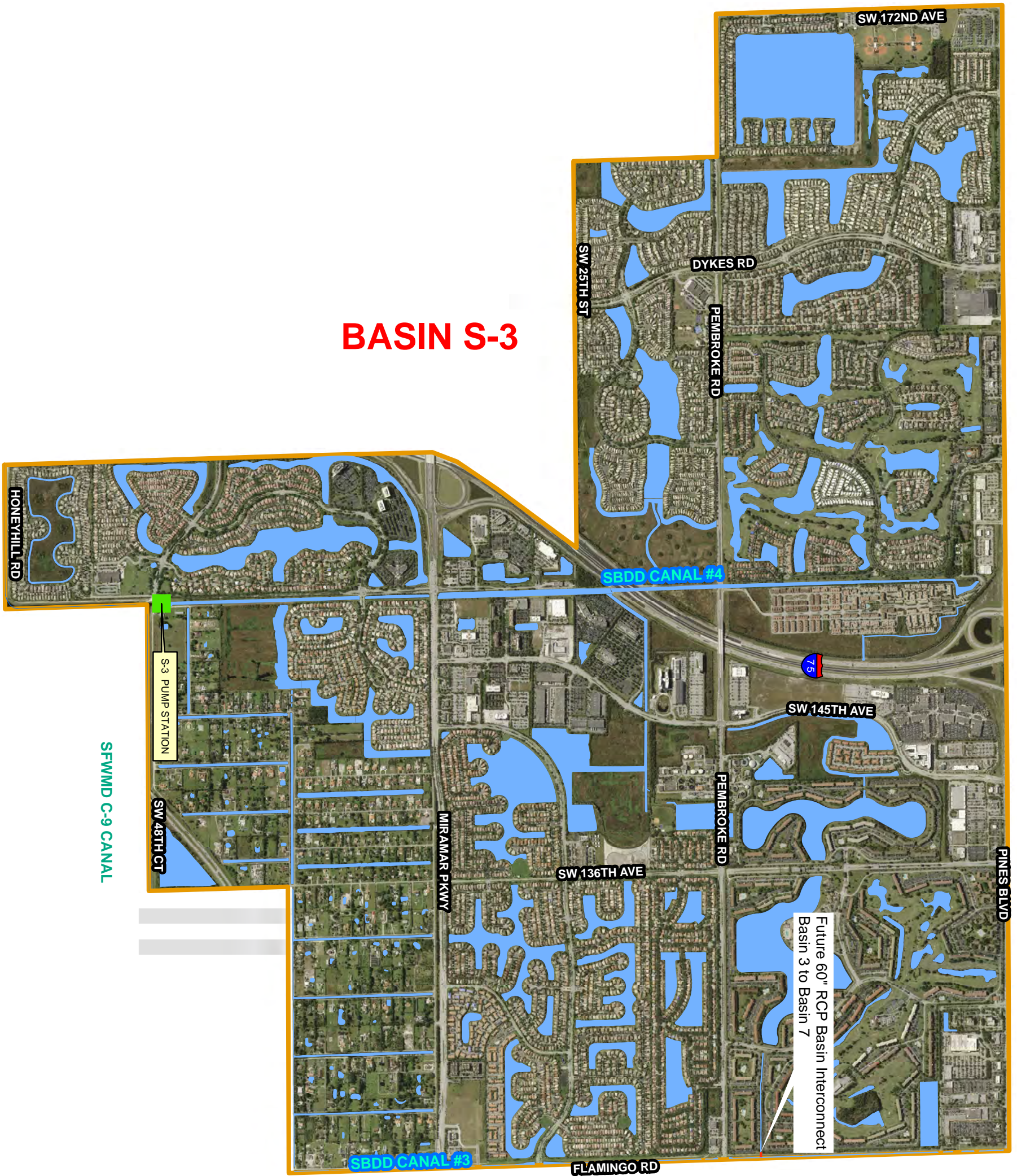
<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
3-86	Silver Shores	SW 165th Ave. & Silver Shores Blvd.	48	RCP	CIRC.	156	
3-87	Silver Shores	SW 163rd Ave. & SW 21st St.	54	RCP	CIRC.	301	
3-88	Silver Shores	Dykes Rd. & Silver Shores Blvd.	60	RCP	CIRC.	377	
3-89	Silver Shores	SW 157th Ave. & Silver Shores Blvd.	60	RCP	CIRC.	140	
3-90	Silver Shores	Silver Shores Blvd. & SW 19th St.	84	RCP	CIRC.	155	
3-91	Silver Shores	SW 148th Ave. Canal & SW 19th St.	84	RCP	CIRC.	127	
3-92	Huntington	SW 148th Ave. & Lakeside Rd.	18	RCP	CIRC.	438	
3-93	Reserve at Huntington	SW 153rd Ave. & SW 50th St.	48	RCP	CIRC.	998	
3-94	Windsor Palms Entrance	SW 148th Ave. & SW 36th St.	192 X 96	RCP	ARCH	97	
3-95	Turnpike Outfall to Country Club Ranches	137th Ave. & Turnpike - Center	48	RCP	CIRC.	294	
3-96	Silver Shores	SW 149th Ave. & SW 19th St.	84	RCP	CIRC.	33	
3-97	Turnpike (W) Outfall at Blue Gill Rd.	Turnpike (W) Outfall at Blue Gill Rd.	54	RCP	CIRC.	46	
3-98	Turnpike (E) Outfall at Blue Gill Rd.	Turnpike (E) Outfall at Blue Gill Rd.	48	RCP	CIRC.	54	
3-99	Silver Shores	SW 163rd Ter. & SW 23rd Ln.	36	RCP	CIRC.	768	
3-100	Monarch Lakes - Flood Gate	Flamingo Rd. Canal & (S) of Monarch Lakes Blvd.	48	RCP	CIRC.	110	Flood Gate
3-101	Hotel Road	SW 145th Ave. & (S) of Trammell Crow Bldg.	54	RCP/CAP	CIRC.	1836	
3-102	Royal Caribbean / Monarch Lakes Mitigation	SW 145th Ave. & (S) of Pembroke Rd.	48	RCP	CIRC.	200	
3-103	Royal Caribbean	SW 145th Ave. & Monarch Lakes Outfall Canal	48	RCP	CIRC.	40	
3-104	Grand Palms Golf Course	Grand Palms Golf Course	36	CAP	CIRC.	65	
3-105	Grand Palms Golf Course	Grand Palms Golf Course	24	CAP	CIRC.	632	
3-106	Enclave at Grand Palms	605 Enclave Cir. (W)	24	RCP/CAP	CIRC.	554	
3-107	Grand Palms Golf Course	Grand Palms Golf Course	24	CAP	CIRC.	1300	
3-108	La Costa at Grand Palms	1432 LaCosta Dr. (E)	24	CAP	CIRC.	316	
3-109	Monarch Lakes - Melrose	SW 130th Ave. & SW 28th St.	48	RCP	CIRC.	525	
3-110	Pembroke Shores - Pasadena	SW 159th Ln. & SW 5th St.	48	RCP	CIRC.	875	Control Structure
3-111	Flamingo Plaza - Walmart	SW 126th Ave. & SW 4th St.	42 - 66	RCP/CMP	CIRC.	1090	Control Structure
3-112.1	148th Ave. & Hotel Rd.	148th Ave. & Hotel Rd.	96	RCP	CIRC.	132	
3-112.2	148th Ave. & Hotel Rd.	148th Ave. & Hotel Rd.	96	RCP	CIRC.	132	
3-113.1	Country Club Ranches	14301 SW 41st St.	24	RCP	CIRC.	19	
3-113.2	Country Club Ranches	14351 SW 41st St.	24	RCP	CIRC.	21	
3-114	Rockefeller / Royal Caribbean	SW 145th Ave. & (S) of Pembroke Rd.	48	RCP	CIRC.	1368	
3-115	Grand Palms Golf Course	Grand Palms Golf Course	24	CAP	CIRC.	912	

TABLE II-C-2

BASIN S-3 EXISTING CULVERT SCHEDULE





<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
3-117	Country Club Ranches / Windsor Palms	Evans Outfall SW 41st St.	48	RCP	CIRC.	40	
3-118	Cobblestone	SW 147th Ter. & SW 10th St.	72 X 96	RCP	ELLIP.	998	
3-119	Hilton Garden Inn / Liberty Mutual	(W) of 14501 SW 29th St.	48	RCP	CIRC.	735	
3-120	Hilton Garden Inn / C-4 Canal	(W) of 14501 SW 29th St.	48	RCP	CIRC.	538	
3-121	I-75 Commerce Center - Mitigation	(W) of SW 145th Ave. & (S) of Pembroke Rd.	48	RCP	CIRC.	37	Control Structure
3-122	Cobblestone - Mitigation	SBDD C-4 Canal & Pembroke Rd.	48	RCP	CIRC.	40	Control Structure
3-124	Lido Isles / Pembroke Shores	Behind 773 SW 167th Ave.	LAND WEIR				Control Structure
3-125	SBDD Canal 4 (S) of S-3 Pump Station	(S) of 14801 Bass Creek Rd.	BRIDGE				
3-126	Pembroke Rd. & SW 145th Ave.	Pembroke Rd. & SW 145th Ave.	48	RCP	CIRC.	1811	
3-127	FBI Building	2030 SW 145th Ave.	48	RCP / CAP	CIRC.	202	
3-128	FBI Building	2030 SW 145th Ave.	36	RCP	CIRC.	52	Control Structure
3-129.1	I-75 & C-4 Canal	I-75 & C-4 Canal	96	RCP	CIRC.	600	
3-129.2	I-75 & C-4 Canal	I-75 & C-4 Canal	96	RCP	CIRC.	600	
3-130	Pembroke Rd. & C-4 Canal	Pembroke Rd. & C-4 Canal	196 X 126	CAP	ARCH	176	
3-131	Grand Palms / Silver Shores	Pembroke Rd. & (W) of I-75	96	RCP	CIRC.	294	

BASIN S-3



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-3 PROPOSED FACILITIES MAP

Legend

-  SFWMD Canal
-  SBDD Pump Station
-  Proposed Features
-  Water Bodies

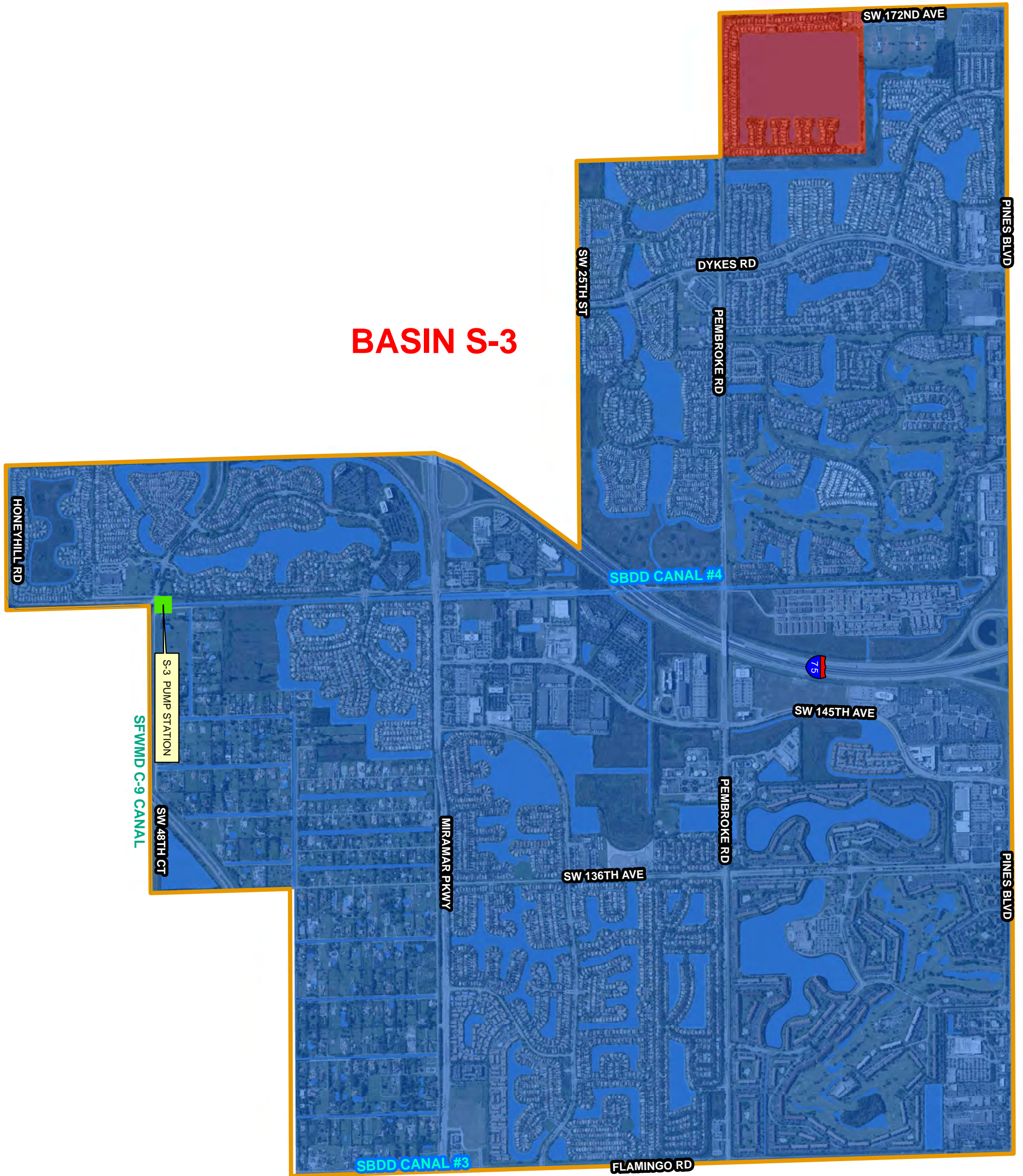


0 1,000 2,000 4,000
Feet




FIGURE II-C-2

BASIN S-3



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-3 CONTROL WATER ELEVATION MAP

Legend

-  SBDD Pump Station
-  Water Bodies
-  3.50' NGVD
-  3.00' NGVD



0 1,000 2,000 4,000
Feet

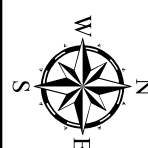
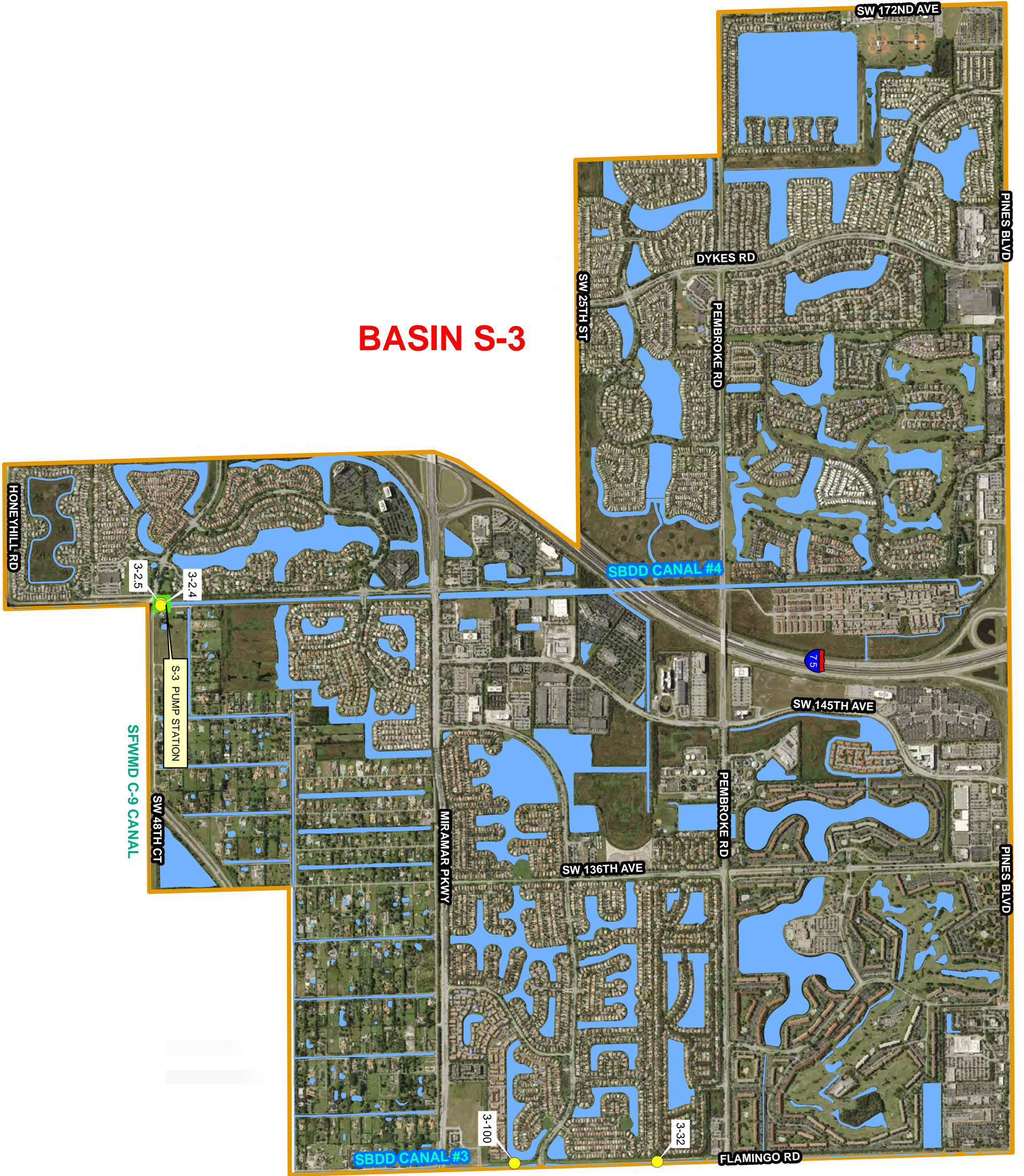


FIGURE II-C-3

BASIN S-3







Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™

SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-3 FLOOD GATE MAP

2019 UPDATE

Legend

-  Flood Gate
-  SFWMD Canal
-  SBDD Pump Station
-  Water Bodies



0 1,000 2,000 4,000
Feet

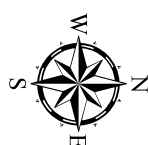


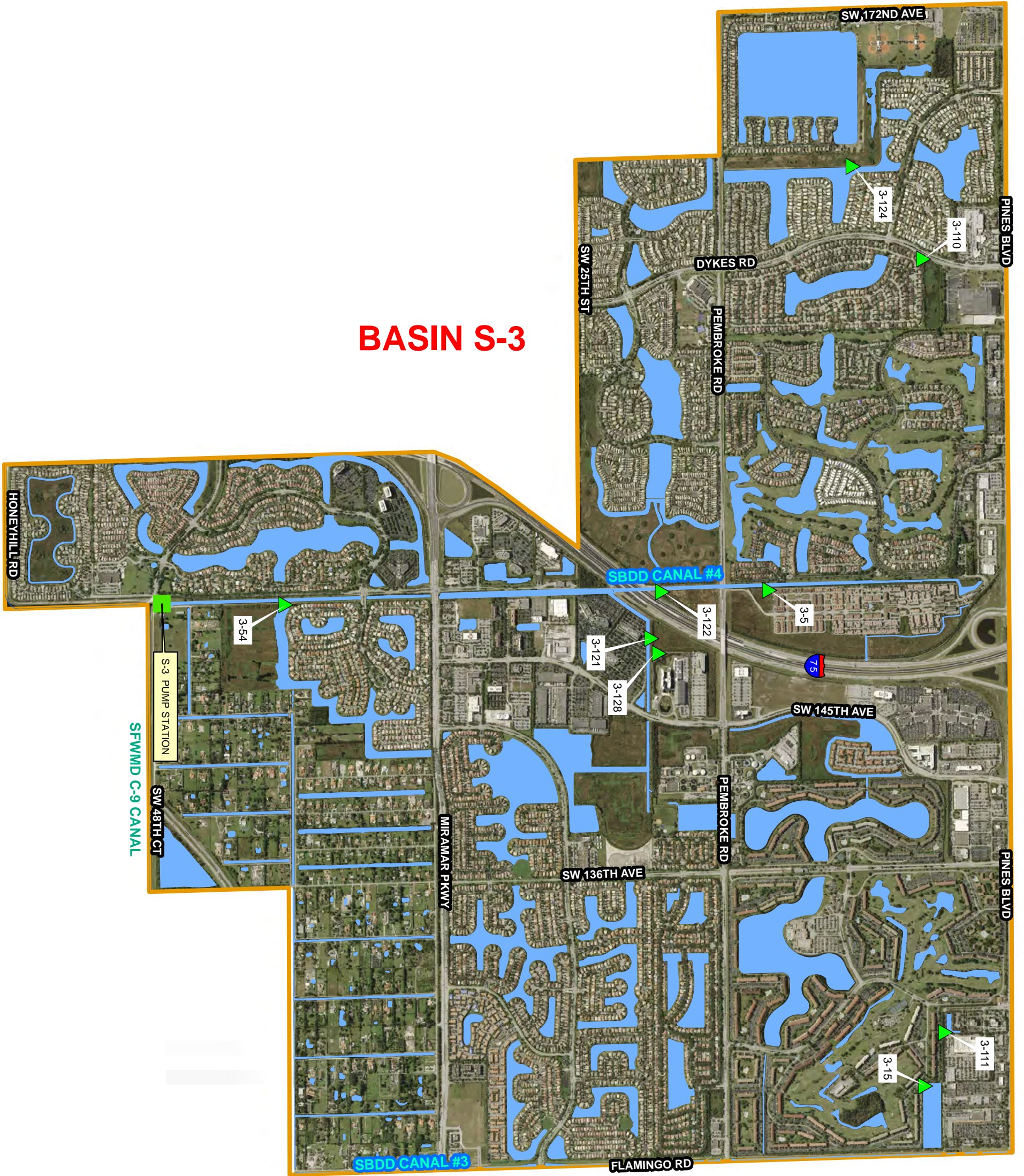
FIGURE II-C-4

TABLE II-C-3

BASIN S-3 FLOOD GATE SCHEDULE





<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
3-2.4	SBDD S-3 Pump Station	14801 Bass Creek Rd.	48" W X 48" H
3-2.5	SBDD S-3 Pump Station	14801 Bas Creek Rd.	48" W X 48" H
3-32	Trilogy	Flamingo Rd. Canal & (S) of Pembroke Rd.	42" W X 42" H
3-100	Monarch Lakes	Flamingo Rd. Canal & Monarch Lakes Blvd.	54" W X 54" H

BASIN S-3



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-3 CONTROL STRUCTURES MAP

Legend

-  Control Structures
-  SFWMD Canal
-  SBDD Pump Station
-  Water Bodies



0 1,000 2,000 4,000
Feet

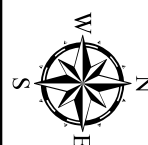


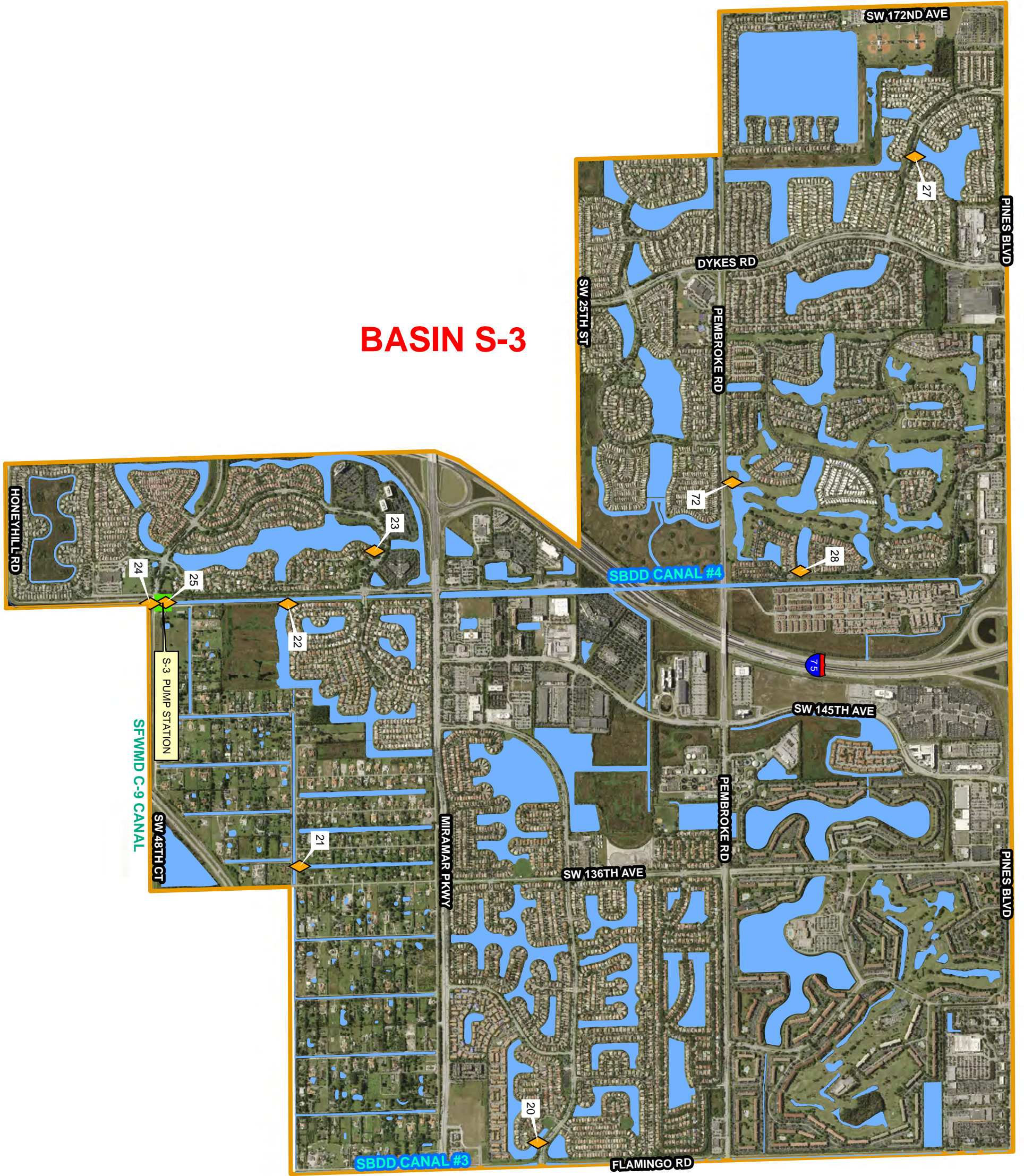
FIGURE II-C-5

TABLE II-C-4

BASIN S-3 CONTROL STRUCTURE SCHEDULE





<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>General Comments</i>
3-5	Cobblestone - Mitigation (N)	Behind 1536 SW 147th Ter.	Over-Flow Structure
3-15	Flamingo Plaza / Century Village	(W) of Flamingo Rd. & (S) of Pines Blvd.	Flashboard Riser w/ 27" x 4.5" Bleeder @ 3.00 NGVD
3-54	Windsor Palms	Behind 4090 SW 147th Ave. @ C-4 Canal	
3-110	Pasadena at Pembroke Shores	15999 SW 3rd St.	Bubble-Up Structure
3-111	Wal-Mart	Pines Blvd. & Flamingo Rd.	Concrete Weir w/ 6" x 6" Triangle @ 3.00 NGVD
3-121	I-75 Commerce Center - Mitigation	(W) of SW 145th Ave. & (S) of Pembroke Rd.	Over-Flow Structure
3-122	Cobblestone - Mitigation (S)	Pembroke Rd & C-4 Canal	Over-Flow Structure
3-124	Lido Isles / Pembroke Shores	Behind 773 SW 167th Ave.	4' Wide Rip-rap Ground Weir
3-128	FBI Building	2030 SW 145th Ave.	Bubble-Up Structure

BASIN S-3



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-3 STAFF GAUGE MAP

Legend

-  Staff Gauge
-  SFWMD Canal
-  SBDD Pump Station
-  Water Bodies



0 1,000 2,000 4,000
Feet

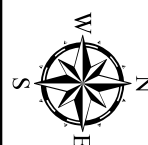


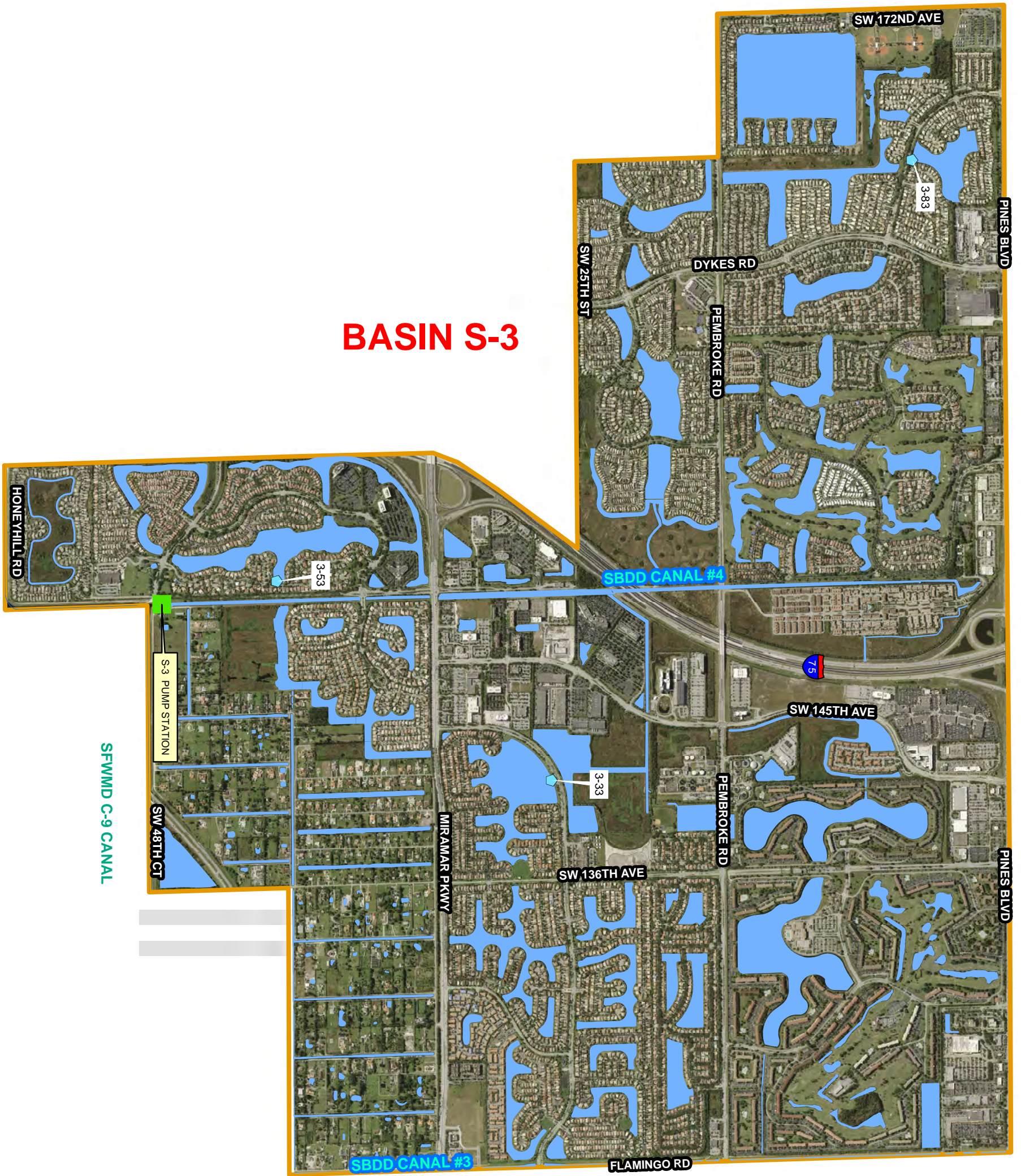
FIGURE II-C-6

TABLE II-C-5

BASIN S-3 STAFF GAUGE SCHEDULE





<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
20	Monarch Lakes	Monarch Lakes Blvd. & (W) of Flamingo Rd. - 1st Lake (S)	
21	Country Club Ranches	SW 137th Ave. & Blue Gill Rd.	
22	Windsor Palms Outfall	SW 148th Ave. & (N) of Bass Creek Rd. by Weir	
23	Huntington	3640 SW 149th Ter.	
24	S-3 Pump Station Downstream	(S) of 14801 Bass Creek Rd.	Telemetry
25	S-3 Pump Station Upstream	(N) of 14801 Bass Creek Rd.	Telemetry
27	Pembroke Shores	SW 165th Ave. & SW 5th St.	
28	Grand Palms Outfall	C-4 Canal & Sable Palm Dr.	
72	Grand Palms	Pembroke Rd. & (E) of SW 152nd Ave. by Water Level Recorder	Water Level Recorder

BASIN S-3



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-3 FISH GUARD MAP

Legend

-  Fish Guards
-  SFWMD Canal
-  SBDD Pump Station
-  Water Bodies



0 1,000 2,000 4,000
Feet

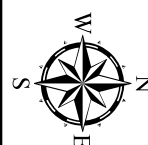


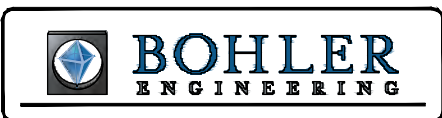
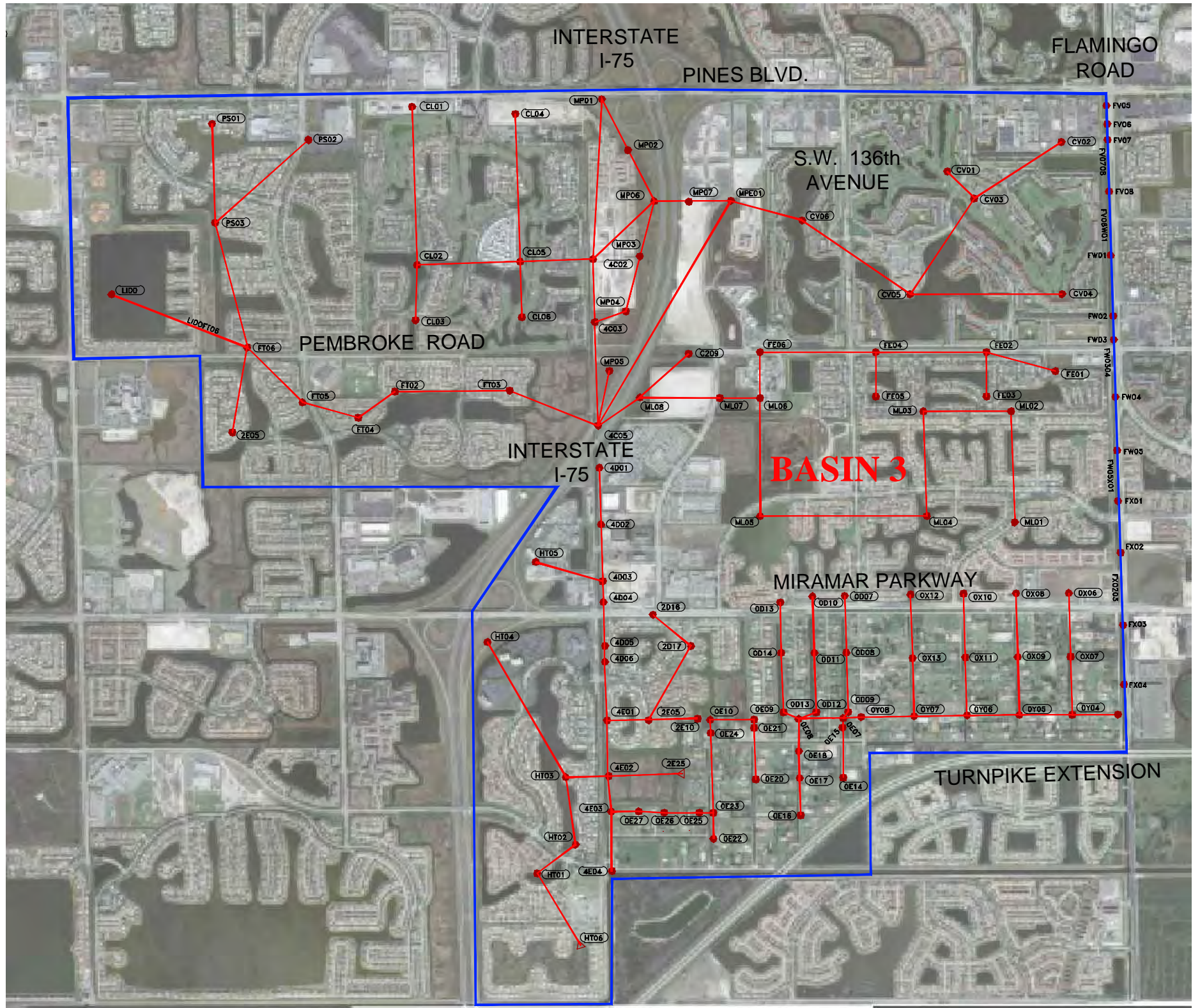
FIGURE II-C-7

TABLE II-C-6

BASIN S-3 FISH GUARD SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>
3-33	Monarch Lakes	West Lake on West side
3-53	Huntington	Outfall @ C-4 Canal
3-83	Pembroke Shores	(W) of SW 164th Ave. & SW 5th St.

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BASIN 3 NODAL DIAGRAM

LEGEND

- BASIN BOUNDARY
- NODE
- 1F04 NODE ID No.
- LINK
- 1F045 LINK ID No.

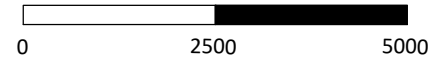


FIGURE II-C-8

TABLE II-C-7

BASIN S-3

BASIN MAXIMUM STAGE REPORT

10-YEAR, 3-DAY STORM

100-YEAR, 3-DAY STORM

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-3 MAX STAGE REPORT
 TABLE II-C-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
OD07	Base-S3	100Y3D_PC48	115.31	5.33	8.00	0.0017	265125	60.00	32.37	115.77	310.30
OD07	Base-S3	10Y3D_FC_48	102.22	4.34	8.00	-0.0012	255665	60.00	15.42	116.95	222.53
OD08	Base-S3	100Y3D_PC48	115.37	5.33	8.00	0.0025	321589	62.20	312.54	66.61	267.54
OD08	Base-S3	10Y3D_FC_48	102.24	4.34	8.00	-0.0018	310034	116.95	222.53	116.21	179.68
OD09	Base-S3	100Y3D_PC48	115.31	5.33	8.00	-0.0013	274784	66.61	271.00	139.91	1.07
OD09	Base-S3	10Y3D_FC_48	102.22	4.34	8.00	-0.0009	263228	116.21	179.68	139.97	1.43
OD10	Base-S3	100Y3D_PC48	94.11	5.40	8.00	0.0043	266108	60.00	30.69	66.61	867.13
OD10	Base-S3	10Y3D_FC_48	85.32	4.41	8.00	-0.0029	262137	60.00	14.91	116.21	572.38
OD11	Base-S3	100Y3D_PC48	94.18	5.41	8.00	0.0053	316682	66.61	870.28	94.53	365.19
OD11	Base-S3	10Y3D_FC_48	85.32	4.41	8.00	-0.0036	310562	116.21	572.38	116.95	259.55
OD12	Base-S3	100Y3D_PC48	94.11	5.40	8.00	0.0021	256220	94.53	365.23	61.31	4.30
OD12	Base-S3	10Y3D_FC_48	85.32	4.41	8.00	0.0014	250131	116.95	259.55	139.85	2.23
OD13	Base-S3	100Y3D_PC48	94.11	5.40	8.00	-0.0033	268242	60.00	30.79	66.61	656.71
OD13	Base-S3	10Y3D_FC_48	85.45	4.41	8.00	-0.0022	263929	60.00	14.94	116.21	428.50
OD14	Base-S3	100Y3D_PC48	94.35	5.41	8.00	0.0052	328049	66.61	659.88	94.55	564.47
OD14	Base-S3	10Y3D_FC_48	85.45	4.41	8.00	-0.0034	323715	116.21	428.50	116.95	387.49
OD15	Base-S3	100Y3D_PC48	94.11	5.40	8.00	-0.0031	266297	94.55	564.51	61.29	3.31
OD15	Base-S3	10Y3D_FC_48	85.44	4.41	8.00	0.0020	261984	116.95	387.49	139.85	2.35
OE07	Base-S3	100Y3D_PC48	93.55	5.40	8.00	0.0007	246763	60.00	16.11	107.39	49.19
OE07	Base-S3	10Y3D_FC_48	85.07	4.41	8.00	0.0003	244742	139.82	14.78	87.81	24.41
OE08	Base-S3	100Y3D_PC48	93.27	5.40	8.00	0.0008	275444	111.97	53.94	108.80	50.99
OE08	Base-S3	10Y3D_FC_48	85.04	4.41	8.00	0.0003	271232	91.57	28.02	86.51	23.75
OE09	Base-S3	100Y3D_PC48	93.34	5.40	8.00	0.0008	275222	112.42	52.44	111.83	49.31
OE09	Base-S3	10Y3D_FC_48	85.02	4.41	8.00	0.0003	271177	86.79	24.70	89.16	24.35
OE10	Base-S3	100Y3D_PC48	93.27	5.40	8.00	0.0008	246113	111.83	49.31	139.99	22.00
OE10	Base-S3	10Y3D_FC_48	84.98	4.41	8.00	0.0003	244592	89.16	24.35	140.00	24.61
OE14	Base-S3	100Y3D_PC48	94.06	5.40	8.00	0.0005	247354	60.00	13.44	98.62	29.66
OE14	Base-S3	10Y3D_FC_48	85.54	4.41	8.00	0.0002	239228	59.75	4.32	116.23	17.04
OE15	Base-S3	100Y3D_PC48	94.02	5.40	8.00	0.0005	254655	98.62	29.72	139.99	2.52
OE15	Base-S3	10Y3D_FC_48	85.54	4.41	8.00	0.0002	242847	116.23	17.04	139.05	2.61
OE16	Base-S3	100Y3D_PC48	93.88	5.40	8.00	0.0011	252890	60.00	27.03	95.30	165.91
OE16	Base-S3	10Y3D_FC_48	85.12	4.41	8.00	-0.0007	241257	60.00	12.74	116.95	119.65
OE17	Base-S3	100Y3D_PC48	94.07	5.40	8.00	0.0024	281857	62.20	180.20	66.61	198.28
OE17	Base-S3	10Y3D_FC_48	85.12	4.41	8.00	-0.0014	243652	116.95	119.65	116.21	131.91
OE18	Base-S3	100Y3D_PC48	93.88	5.40	8.00	0.0012	254313	66.61	202.81	62.66	7.02
OE18	Base-S3	10Y3D_FC_48	85.12	4.41	8.00	-0.0007	242553	116.21	131.91	63.02	1.97

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-3 MAX STAGE REPORT
 TABLE II-C-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
OE19	Base-S3	100Y3D_PC48	93.30	5.40	8.00	0.0007	273208	60.00	27.67	95.37	42.02
OE19	Base-S3	10Y3D_PC_48	85.17	4.41	8.00	0.0003	256220	60.00	12.47	116.21	23.54
OE20	Base-S3	100Y3D_PC48	93.64	5.40	8.00	0.0007	308858	62.49	52.61	99.99	38.39
OE20	Base-S3	10Y3D_PC_48	85.17	4.41	8.00	0.0003	282118	60.00	28.06	116.38	22.39
OE21	Base-S3	100Y3D_PC48	93.30	5.40	8.00	0.0007	273114	62.20	51.44	62.83	8.02
OE21	Base-S3	10Y3D_PC_48	85.17	4.41	8.00	0.0003	255275	116.38	22.39	63.21	2.63
OE22	Base-S3	100Y3D_PC48	91.66	5.40	8.00	0.0006	237695	60.00	24.10	92.66	97.81
OE22	Base-S3	10Y3D_PC_48	83.33	4.41	8.00	0.0003	234913	60.00	11.48	116.37	57.11
OE23	Base-S3	100Y3D_PC48	90.59	5.40	8.00	0.0012	277903	104.58	231.12	139.99	23.59
OE23	Base-S3	10Y3D_PC_48	83.33	4.41	8.00	0.0006	275118	116.37	145.55	139.97	26.54
OE24	Base-S3	100Y3D_PC48	91.66	5.40	8.00	-0.0009	237483	139.99	22.00	111.39	136.27
OE24	Base-S3	10Y3D_PC_48	83.36	4.41	8.00	-0.0005	236963	140.00	24.61	116.37	88.44
OE25	Base-S3	100Y3D_PC48	79.47	5.43	8.00	0.0006	285136	139.99	23.60	108.92	43.85
OE25	Base-S3	10Y3D_PC_48	75.00	4.44	8.00	0.0002	259492	139.97	26.54	139.99	27.14
OE26	Base-S3	100Y3D_PC48	79.47	5.43	8.00	0.0007	313425	108.92	43.90	108.79	82.36
OE26	Base-S3	10Y3D_PC_48	74.98	4.44	8.00	0.0002	287251	139.99	27.14	140.00	27.87
OE27	Base-S3	100Y3D_PC48	79.47	5.43	8.00	0.0006	284824	108.79	82.41	140.00	25.32
OE27	Base-S3	10Y3D_PC_48	74.97	4.44	8.00	0.0002	259593	140.00	27.87	140.00	28.53
OX06	Base-S3	100Y3D_PC48	94.03	5.40	8.00	0.0007	312630	60.00	24.41	96.33	50.35
OX06	Base-S3	10Y3D_PC_48	85.60	4.41	8.00	0.0002	275886	60.00	12.49	71.52	33.97
OX07	Base-S3	100Y3D_PC48	93.96	5.40	8.00	0.0009	357790	95.05	50.66	66.61	154.26
OX07	Base-S3	10Y3D_PC_48	85.60	4.41	8.00	0.0005	320486	70.10	37.55	116.43	94.56
OX08	Base-S3	100Y3D_PC48	94.02	5.40	8.00	0.0007	436289	60.00	45.80	66.61	103.57
OX08	Base-S3	10Y3D_PC_48	85.60	4.41	8.00	0.0004	350639	60.00	21.50	116.65	73.27
OX09	Base-S3	100Y3D_PC48	94.11	5.40	8.00	0.0012	477269	60.00	145.75	96.37	133.25
OX09	Base-S3	10Y3D_PC_48	85.60	4.41	8.00	0.0007	389613	60.00	92.16	116.23	101.08
OX10	Base-S3	100Y3D_PC48	94.08	5.40	8.00	0.0007	383397	60.00	36.97	93.37	81.46
OX10	Base-S3	10Y3D_PC_48	85.59	4.41	8.00	-0.0003	318735	60.00	16.07	71.54	64.73
OX11	Base-S3	100Y3D_PC48	94.02	5.40	8.00	0.0017	413076	93.37	81.68	66.61	182.39
OX11	Base-S3	10Y3D_PC_48	85.59	4.41	8.00	0.0010	346194	64.01	71.87	116.44	115.33
OX12	Base-S3	100Y3D_PC48	94.13	5.40	8.00	0.0007	438605	60.00	41.23	62.27	89.88
OX12	Base-S3	10Y3D_PC_48	85.59	4.41	8.00	0.0004	352471	60.00	17.23	116.55	63.30
OX13	Base-S3	100Y3D_PC48	94.06	5.40	8.00	-0.0011	479421	60.00	125.65	93.34	99.80
OX13	Base-S3	10Y3D_PC_48	85.59	4.41	8.00	-0.0007	393041	60.00	75.44	71.54	71.02
OY03	Base-S3	100Y3D_PC48	94.02	5.40	8.00	-0.0020	188888	60.00	16.55	66.61	241.28
OY03	Base-S3	10Y3D_PC_48	85.60	4.41	8.00	-0.0013	186776	60.00	8.06	116.43	155.26

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-3 MAX STAGE REPORT
 TABLE II-C-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
0Y04	Base-S3	100Y3D_PC48	94.09	5.40	8.00	-0.0025	358457	66.61	391.49	97.12	204.06
0Y04	Base-S3	10Y3D_PC_48	85.60	4.42	8.00	0.0016	329810	116.43	251.54	116.23	148.76
0Y05	Base-S3	100Y3D_PC48	94.02	5.40	8.00	0.0031	408551	96.33	336.92	66.61	259.89
0Y05	Base-S3	10Y3D_PC_48	85.59	4.41	8.00	0.0017	357743	116.23	249.83	116.44	169.39
0Y06	Base-S3	100Y3D_PC48	94.06	5.41	8.00	-0.0036	423434	66.61	438.83	93.34	161.27
0Y06	Base-S3	10Y3D_PC_48	85.58	4.42	8.00	-0.0023	374519	116.44	286.34	71.54	110.07
0Y07	Base-S3	100Y3D_PC48	93.86	5.40	8.00	0.0027	425251	93.34	261.30	61.63	47.53
0Y07	Base-S3	10Y3D_PC_48	85.59	4.41	8.00	0.0018	361508	71.54	183.89	133.50	36.13
0Y08	Base-S3	100Y3D_PC48	94.07	5.40	8.00	0.0013	166967	60.00	57.56	63.16	11.49
0Y08	Base-S3	10Y3D_PC_48	85.57	4.41	8.00	-0.0007	165023	133.50	36.13	139.67	10.76
2C09	Base-S3	100Y3D_PC48	63.21	6.37	8.00	0.0022	1290740	60.50	383.83	61.82	88.47
2C09	Base-S3	10Y3D_PC_48	62.45	5.21	8.00	0.0014	849170	60.50	237.80	61.58	79.28
2E05	Base-S3	100Y3D_PC48	72.34	5.53	8.00	0.0013	3695305	60.50	643.79	61.60	61.64
2E05	Base-S3	10Y3D_PC_48	64.94	4.53	8.00	0.0006	2875758	60.00	340.44	61.53	47.98
4C02	Base-S3	100Y3D_PC48	80.46	5.65	8.00	0.0007	530598	60.72	88.24	80.29	63.50
4C02	Base-S3	10Y3D_PC_48	75.33	4.63	8.00	0.0005	505048	60.68	76.95	63.53	86.51
4C03	Base-S3	100Y3D_PC48	80.46	5.65	8.00	0.0008	476099	79.63	74.39	66.61	140.18
4C03	Base-S3	10Y3D_PC_48	75.32	4.63	8.00	0.0006	455261	60.00	90.66	77.58	70.77
4C05	Base-S3	100Y3D_PC48	80.46	5.65	8.00	0.0007	479112	60.44	311.14	60.81	178.95
4C05	Base-S3	10Y3D_PC_48	75.32	4.63	8.00	0.0004	459239	60.81	182.23	79.13	161.06
4D01	Base-S3	100Y3D_PC48	80.45	5.65	8.00	0.0007	436968	60.68	186.75	82.31	171.89
4D01	Base-S3	10Y3D_PC_48	75.30	4.63	8.00	0.0003	417792	79.13	161.06	79.41	161.75
4D02	Base-S3	100Y3D_PC48	79.73	5.57	8.00	0.0007	436381	82.31	171.89	82.31	172.23
4D02	Base-S3	10Y3D_PC_48	74.76	4.56	8.00	0.0003	416810	79.41	161.75	79.57	162.45
4D03	Base-S3	100Y3D_PC48	79.71	5.57	8.00	0.0007	439933	60.85	239.10	61.00	202.65
4D03	Base-S3	10Y3D_PC_48	74.73	4.56	8.00	0.0003	420213	60.96	202.17	61.13	180.48
4D04	Base-S3	100Y3D_PC48	79.23	5.54	8.00	0.0007	439786	60.82	208.25	83.41	173.33
4D04	Base-S3	10Y3D_PC_48	74.52	4.54	8.00	0.0003	419049	61.09	183.16	79.98	164.88
4D05	Base-S3	100Y3D_PC48	79.19	5.54	8.00	0.0007	241070	60.12	181.88	83.54	173.53
4D05	Base-S3	10Y3D_PC_48	74.49	4.54	8.00	0.0005	229508	79.98	164.88	80.01	165.28
4D06	Base-S3	100Y3D_PC48	76.95	5.46	8.00	0.0006	232217	83.54	173.53	83.59	173.72
4D06	Base-S3	10Y3D_PC_48	73.81	4.46	8.00	-0.0007	221986	80.01	165.28	80.00	165.67
4E01	Base-S3	100Y3D_PC48	76.91	5.46	8.00	0.0006	463544	60.18	203.25	84.50	177.04
4E01	Base-S3	10Y3D_PC_48	73.79	4.46	8.00	-0.0006	443655	61.27	191.84	78.81	172.16
4E02	Base-S3	100Y3D_PC48	76.89	5.46	8.00	0.0006	461943	61.28	304.98	61.48	268.37
4E02	Base-S3	10Y3D_PC_48	73.79	4.46	8.00	-0.0007	441281	61.44	283.96	61.74	263.41

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-3 MAX STAGE REPORT
 TABLE II-C-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
4E03	Base-S3	100Y3D_PC48	76.92	5.45	8.00	0.0016	429424	60.00	242.88	48.42	200.70
4E03	Base-S3	10Y3D_PC_48	73.81	4.46	8.00	-0.0013	410140	60.80	221.74	58.59	200.70
4E04	Base-S3	100Y3D_PC48	0.00	3.00	8.00	0.0000	0	48.42	200.70	0.00	0.00
4E04	Base-S3	10Y3D_PC_48	0.00	3.00	8.00	0.0000	0	58.59	200.70	0.00	0.00
CL01	Base-S3	100Y3D_PC48	109.98	6.39	8.00	0.0016	1936367	60.00	262.76	140.00	1.07
CL01	Base-S3	10Y3D_PC_48	92.65	5.29	8.00	0.0008	1217423	60.00	154.87	140.00	1.13
CL02	Base-S3	100Y3D_PC48	74.27	6.49	8.00	0.0016	4895148	60.00	648.84	66.64	4.51
CL02	Base-S3	10Y3D_PC_48	73.66	5.39	8.00	0.0009	2822115	60.00	385.35	72.69	4.30
CL03	Base-S3	100Y3D_PC48	69.70	7.05	8.00	0.0025	752784	60.50	131.41	61.05	6.95
CL03	Base-S3	10Y3D_PC_48	64.82	5.98	8.00	0.0015	401490	60.50	78.58	61.93	7.11
CL04	Base-S3	100Y3D_PC48	73.31	6.31	8.00	0.0017	1804907	60.00	231.99	61.45	3.68
CL04	Base-S3	10Y3D_PC_48	72.78	5.20	8.00	0.0010	985571	60.00	130.72	65.45	3.23
CL05	Base-S3	100Y3D_PC48	74.51	6.10	8.00	0.0015	1809413	60.00	320.95	62.11	8.52
CL05	Base-S3	10Y3D_PC_48	74.76	5.02	8.00	0.0007	1391325	60.00	195.21	140.00	8.22
CL06	Base-S3	100Y3D_PC48	92.48	6.09	8.00	0.0016	1287120	60.00	253.44	140.00	1.06
CL06	Base-S3	10Y3D_PC_48	84.67	5.02	8.00	0.0008	1030006	60.00	154.75	140.00	1.29
CV01	Base-S3	100Y3D_PC48	79.21	6.92	8.00	0.0015	3286649	60.50	383.33	111.18	7.34
CV01	Base-S3	10Y3D_PC_48	75.45	5.86	8.00	0.0008	2046066	60.50	218.38	120.84	7.86
CV02	Base-S3	100Y3D_PC48	65.25	7.61	8.00	0.0014	1963140	60.50	275.68	61.78	25.30
CV02	Base-S3	10Y3D_PC_48	64.29	6.82	8.00	0.0011	1177197	60.50	175.40	62.05	24.15
CV03	Base-S3	100Y3D_PC48	79.10	6.92	8.00	0.0016	3145293	60.50	366.80	115.81	17.16
CV03	Base-S3	10Y3D_PC_48	75.31	5.86	8.00	0.0010	1805083	60.51	206.62	90.70	16.33
CV04	Base-S3	100Y3D_PC48	68.34	6.30	8.00	0.0020	549035	60.50	170.03	60.67	88.88
CV04	Base-S3	10Y3D_PC_48	64.91	5.11	8.00	0.0010	243954	60.50	103.17	60.60	65.52
CV05	Base-S3	100Y3D_PC48	68.34	6.30	8.00	0.0018	3794633	60.00	761.35	65.13	66.77
CV05	Base-S3	10Y3D_PC_48	64.97	5.11	8.00	0.0009	2936309	60.00	481.83	63.34	59.55
CV06	Base-S3	100Y3D_PC48	68.37	6.28	8.00	0.0020	3255233	60.00	598.85	63.07	136.70
CV06	Base-S3	10Y3D_PC_48	65.01	5.09	8.00	0.0010	2328532	60.00	374.91	62.55	119.76
FE01	Base-S3	100Y3D_PC48	72.15	6.46	8.00	0.0026	972261	60.00	226.68	64.46	8.22
FE01	Base-S3	10Y3D_PC_48	68.83	5.21	8.00	0.0013	542803	60.00	136.68	63.39	7.67
FE02	Base-S3	100Y3D_PC48	72.53	6.35	8.00	0.0022	856309	60.00	161.94	63.06	13.63
FE02	Base-S3	10Y3D_PC_48	72.28	5.16	8.00	0.0011	490668	60.00	95.86	62.83	11.44
FE03	Base-S3	100Y3D_PC48	72.43	6.35	8.00	0.0024	358648	60.00	89.29	60.08	1.85
FE03	Base-S3	10Y3D_PC_48	72.26	5.16	8.00	0.0011	231627	60.00	51.91	60.01	1.39
FE04	Base-S3	100Y3D_PC48	72.52	6.31	8.00	0.0025	503764	60.00	122.62	61.16	21.58
FE04	Base-S3	10Y3D_PC_48	72.27	5.13	8.00	0.0012	272867	60.00	71.00	61.53	17.46

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-3 MAX STAGE REPORT
 TABLE II-C-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
FE05	Base-S3	100Y3D_PC48	72.52	6.31	8.00	0.0028	186036	60.00	55.00	60.11	20.05
FE05	Base-S3	10Y3D_FC_48	72.26	5.13	8.00	0.0013	83207	60.00	30.62	60.08	13.02
FE06	Base-S3	100Y3D_PC48	73.53	6.19	8.00	0.0019	714071	60.00	154.94	60.88	46.74
FE06	Base-S3	10Y3D_FC_48	72.70	5.05	8.00	0.0009	438609	60.00	91.69	60.81	31.81
FT01	Base-S3	100Y3D_PC48	72.92	6.01	8.00	0.0026	276285	60.00	131.69	60.71	36.49
FT01	Base-S3	10Y3D_FC_48	72.78	4.89	8.00	0.0012	258052	60.00	79.59	60.68	23.80
FT02	Base-S3	100Y3D_PC48	81.65	5.68	8.00	0.0023	915770	60.00	416.97	61.09	146.44
FT02	Base-S3	10Y3D_FC_48	76.01	4.66	8.00	0.0010	889458	60.00	252.46	60.91	98.34
FT03	Base-S3	100Y3D_PC48	81.58	5.67	8.00	0.0015	3207808	60.00	864.71	60.61	115.18
FT03	Base-S3	10Y3D_FC_48	76.02	4.65	8.00	0.0007	3207808	60.00	542.59	60.43	91.54
FT04	Base-S3	100Y3D_PC48	80.55	5.74	8.00	0.0031	251804	60.00	170.08	60.30	56.15
FT04	Base-S3	10Y3D_FC_48	72.42	4.71	8.00	0.0014	237547	60.00	101.43	60.29	39.86
FT05	Base-S3	100Y3D_PC48	72.33	5.85	8.00	0.0035	221855	60.00	151.87	60.56	38.93
FT05	Base-S3	10Y3D_FC_48	72.28	4.79	8.00	0.0016	210217	60.00	87.61	65.89	27.67
FT06	Base-S3	100Y3D_PC48	72.95	6.01	8.00	0.0019	615988	60.00	137.30	69.15	30.40
FT06	Base-S3	10Y3D_FC_48	72.80	4.89	8.00	0.0009	576600	60.00	82.14	140.00	25.50
HT01	Base-S3	100Y3D_PC48	68.94	6.41	8.00	0.0025	1114251	60.00	236.07	70.00	37.76
HT01	Base-S3	10Y3D_FC_48	65.58	5.28	8.00	0.0013	570580	60.00	137.72	66.70	34.63
HT02	Base-S3	100Y3D_PC48	68.55	6.08	8.00	0.0025	359794	60.00	117.80	60.72	45.75
HT02	Base-S3	10Y3D_FC_48	64.95	5.02	8.00	0.0012	203994	60.00	70.88	66.79	37.97
HT03	Base-S3	100Y3D_PC48	64.91	5.67	8.00	0.0017	2033983	60.00	545.37	61.66	138.96
HT03	Base-S3	10Y3D_FC_48	64.27	4.68	8.00	0.0008	1709451	60.02	343.39	61.56	112.00
HT04	Base-S3	100Y3D_PC48	64.68	5.68	8.00	0.0020	1587570	60.00	497.14	60.57	111.45
HT04	Base-S3	10Y3D_FC_48	64.16	4.69	8.00	0.0010	1293026	60.00	304.87	60.58	86.09
HT05	Base-S3	100Y3D_PC48	79.67	5.57	8.00	0.0019	682799	60.00	243.82	61.12	113.65
HT05	Base-S3	10Y3D_FC_48	74.73	4.56	8.00	0.0009	571500	60.00	152.64	60.95	83.61
HT06	Base-S3	100Y3D_PC48	65.89	6.89	8.00	0.0023	2027810	60.50	390.77	63.89	30.83
HT06	Base-S3	10Y3D_FC_48	64.60	5.71	8.00	0.0012	1122548	60.50	248.62	63.72	27.80
LIDO	Base-S3	100Y3D_PC48	72.97	6.01	8.00	0.0011	3659040	60.00	571.07	52.76	8.84
LIDO	Base-S3	10Y3D_FC_48	72.88	4.89	8.00	0.0005	3659040	60.00	348.48	59.58	10.76
ML01	Base-S3	100Y3D_PC48	64.64	6.34	8.00	0.0021	1492893	60.50	307.33	60.88	42.50
ML01	Base-S3	10Y3D_FC_48	63.73	5.12	8.00	0.0011	783384	60.50	180.61	61.45	36.66
ML02	Base-S3	100Y3D_PC48	72.50	6.27	8.00	0.0017	1484349	60.50	264.99	61.15	60.63
ML02	Base-S3	10Y3D_FC_48	72.46	5.09	8.00	0.0008	828084	60.50	155.86	61.67	48.73
ML03	Base-S3	100Y3D_PC48	72.81	6.25	8.00	0.0016	2174183	60.00	373.20	63.65	49.96
ML03	Base-S3	10Y3D_FC_48	72.56	5.08	8.00	0.0008	1442632	60.00	225.80	63.15	42.38

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-3 MAX STAGE REPORT
 TABLE II-C-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
ML04	Base-S3	100Y3D_PC48	73.14	6.23	8.00	0.0015	3229577	60.00	520.36	61.70	72.95
ML04	Base-S3	10Y3D_PC_48	72.67	5.07	8.00	0.0008	2041021	60.00	310.01	61.91	51.30
ML05	Base-S3	100Y3D_PC48	73.65	6.20	8.00	0.0015	4731096	60.00	931.55	61.06	53.19
ML05	Base-S3	10Y3D_PC_48	72.90	5.06	8.00	0.0007	3777848	60.00	579.96	60.84	36.07
ML06	Base-S3	100Y3D_PC48	73.90	6.17	8.00	0.0015	4289635	60.00	807.11	76.52	53.05
ML06	Base-S3	10Y3D_PC_48	73.06	5.04	8.00	0.0007	3492096	60.00	504.46	75.67	44.80
ML07	Base-S3	100Y3D_PC48	73.14	6.12	8.00	0.0014	1173086	60.50	191.77	60.51	78.60
ML07	Base-S3	10Y3D_PC_48	72.76	5.00	8.00	0.0008	545402	60.02	106.20	75.13	46.33
ML08	Base-S3	100Y3D_PC48	73.10	6.11	8.00	0.0014	518946	60.52	165.70	62.01	76.26
ML08	Base-S3	10Y3D_PC_48	72.77	4.99	8.00	0.0007	474314	60.51	108.38	64.39	57.42
MP01	Base-S3	100Y3D_PC48	80.50	5.65	8.00	0.0007	918189	60.64	95.81	85.18	22.00
MP01	Base-S3	10Y3D_PC_48	75.37	4.64	8.00	0.0004	912079	60.59	70.23	81.97	18.04
MP02	Base-S3	100Y3D_PC48	80.59	5.66	8.00	0.0007	2415261	60.50	237.88	82.82	21.04
MP02	Base-S3	10Y3D_PC_48	75.47	4.64	8.00	0.0004	2415261	60.50	138.40	81.10	16.14
MP03	Base-S3	100Y3D_PC48	79.84	5.69	8.00	0.0007	2464209	60.50	245.99	75.24	11.59
MP03	Base-S3	10Y3D_PC_48	75.50	4.67	8.00	0.0004	2464209	60.50	145.57	75.41	9.59
MP04	Base-S3	100Y3D_PC48	80.08	5.68	8.00	0.0009	154344	60.00	32.50	76.83	11.19
MP04	Base-S3	10Y3D_PC_48	75.51	4.66	8.00	0.0004	153966	60.00	13.80	76.36	9.63
MP05	Base-S3	100Y3D_PC48	80.66	5.65	8.00	0.0009	379203	60.00	59.77	60.17	6.35
MP05	Base-S3	10Y3D_PC_48	75.60	4.63	8.00	0.0005	379114	60.00	38.60	101.99	1.08
MP06	Base-S3	100Y3D_PC48	79.26	5.69	8.00	0.0010	270119	62.06	137.84	62.52	123.90
MP06	Base-S3	10Y3D_PC_48	74.40	4.68	8.00	0.0004	270119	62.25	102.88	63.60	96.01
MP07	Base-S3	100Y3D_PC48	73.47	5.84	8.00	0.0088	1079	62.06	137.90	62.06	137.84
MP07	Base-S3	10Y3D_PC_48	72.39	4.79	8.00	0.0020	1079	62.24	102.91	62.25	102.88
MPE01	Base-S3	100Y3D_PC48	68.30	6.23	8.00	0.0025	1959152	60.00	915.89	62.04	173.12
MPE01	Base-S3	10Y3D_PC_48	65.76	5.06	8.00	0.0012	1959877	60.00	602.21	62.24	129.79
NursNoLk	NursNoLk	100Y3D_PC48	60.06	6.61	8.00	0.0048	5194	60.00	31.31	60.05	30.45
NursNoLk	NursNoLk	10Y3D_PC_48	60.01	6.20	8.00	0.0025	399	60.00	19.88	60.01	19.82
NWpembk145th	NursNoLk	100Y3D_PC48	72.12	6.07	7.00	-0.0100	283	61.98	35.23	61.98	35.22
NWpembk145th	NursNoLk	10Y3D_PC_48	68.45	4.94	7.00	0.0072	283	62.23	26.88	62.23	26.87
PG	Base-S3	100Y3D_PC48	60.79	7.00	8.00	-0.0079	641073	60.00	182.29	60.42	107.97
PG	Base-S3	10Y3D_PC_48	60.33	6.67	8.00	-0.0048	221662	60.00	115.02	60.33	97.29
PS01	Base-S3	100Y3D_PC48	72.74	6.02	8.00	0.0020	1505689	60.00	341.27	61.33	36.24
PS01	Base-S3	10Y3D_PC_48	72.48	4.90	8.00	0.0010	1025420	60.00	207.82	61.33	25.05
PS02	Base-S3	100Y3D_PC48	72.85	6.02	8.00	0.0018	2256461	60.00	469.44	61.49	49.85
PS02	Base-S3	10Y3D_PC_48	72.55	4.90	8.00	0.0009	1566618	60.00	285.30	61.55	33.38

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-3 MAX STAGE REPORT
 TABLE II-C-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
PS03	Base-S3	100Y3D_PC48	73.01	6.02	8.00	0.0016	4813404	60.00	902.83	63.23	82.29
PS03	Base-S3	10Y3D_PC_48	72.72	4.90	8.00	0.0008	3736382	60.00	552.37	63.36	62.89
TpkExtension	Base-S3	100Y3D_PC48	94.02	5.40	8.00	0.0004	1290597	0.00	0.00	130.95	7.31
TpkExtension	Base-S3	10Y3D_PC_48	85.64	4.41	8.00	0.0002	872445	0.00	0.00	116.62	4.78

TABLE II-C-8

BASIN S-3

72-HOUR NODAL STAGE REPORT

10-YEAR, 3-DAY STORM

100-YEAR, 3-DAY STORM

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-3 72 HR NODAL STAGE REPORT FOR 10 YR 3 DAY STORM
 TABLE II-C-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10Y3D_PC_48	OD07	Base-S3	72.00	4.09	8.00	253227	1.18	-167.62	5.3	-194.5
10Y3D_PC_48	OD08	Base-S3	72.00	4.09	8.00	306815	-166.44	133.01	-189.2	151.4
10Y3D_PC_48	OD09	Base-S3	72.00	4.09	8.00	260006	134.19	-1.67	156.7	-4.1
10Y3D_PC_48	OD10	Base-S3	72.00	4.24	8.00	261449	1.08	455.94	4.9	533.6
10Y3D_PC_48	OD11	Base-S3	72.00	4.24	8.00	309505	457.01	-209.99	538.6	-247.7
10Y3D_PC_48	OD12	Base-S3	72.00	4.24	8.00	249074	-208.91	-4.21	-242.8	-8.0
10Y3D_PC_48	OD13	Base-S3	72.00	4.24	8.00	263159	1.08	340.28	5.0	255.6
10Y3D_PC_48	OD14	Base-S3	72.00	4.23	8.00	322946	341.36	-312.10	260.5	-238.1
10Y3D_PC_48	OD15	Base-S3	72.00	4.24	8.00	261225	-311.01	-4.55	-233.1	-8.7
10Y3D_PC_48	OE07	Base-S3	72.00	4.26	8.00	244432	-8.19	-10.59	-37.0	-45.4
10Y3D_PC_48	OE08	Base-S3	72.00	4.26	8.00	270618	-20.56	-22.33	-62.7	-69.5
10Y3D_PC_48	OE09	Base-S3	72.00	4.26	8.00	270520	-23.38	-25.63	-70.6	-78.0
10Y3D_PC_48	OE10	Base-S3	72.00	4.26	8.00	244244	-25.26	-27.25	-74.6	-82.0
10Y3D_PC_48	OE14	Base-S3	72.00	4.26	8.00	237904	0.60	11.45	-0.5	3.0
10Y3D_PC_48	OE15	Base-S3	72.00	4.26	8.00	240885	12.73	-1.97	7.2	-9.6
10Y3D_PC_48	OE16	Base-S3	72.00	4.26	8.00	239345	1.45	-96.32	5.2	-106.0
10Y3D_PC_48	OE17	Base-S3	72.00	4.26	8.00	237538	-94.87	104.22	-100.7	112.5
10Y3D_PC_48	OE18	Base-S3	72.00	4.26	8.00	240664	105.68	-1.59	117.7	-4.0
10Y3D_PC_48	OE19	Base-S3	72.00	4.26	8.00	253441	1.62	18.19	5.6	17.5
10Y3D_PC_48	OE20	Base-S3	72.00	4.26	8.00	277728	19.81	-18.25	23.1	-19.1
10Y3D_PC_48	OE21	Base-S3	72.00	4.26	8.00	252405	-16.63	-1.42	-13.5	-4.5
10Y3D_PC_48	OE22	Base-S3	72.00	4.34	8.00	234685	1.27	44.96	4.6	45.1
10Y3D_PC_48	OE23	Base-S3	72.00	4.34	8.00	274891	67.99	-28.03	4.9	-90.9
10Y3D_PC_48	OE24	Base-S3	72.00	4.34	8.00	236925	-25.98	21.76	-77.4	-44.8
10Y3D_PC_48	OE25	Base-S3	72.00	4.42	8.00	258999	-25.96	-26.94	-85.0	-93.1
10Y3D_PC_48	OE26	Base-S3	72.00	4.42	8.00	286742	-24.88	-26.04	-87.2	-94.2
10Y3D_PC_48	OE27	Base-S3	72.00	4.42	8.00	259104	-23.97	-25.01	-88.3	-97.6
10Y3D_PC_48	OX06	Base-S3	72.00	4.26	8.00	270062	3.12	26.07	5.5	5.9
10Y3D_PC_48	OX07	Base-S3	72.00	4.26	8.00	314420	29.19	-70.29	11.3	-25.0
10Y3D_PC_48	OX08	Base-S3	72.00	4.26	8.00	337143	2.94	-58.21	9.5	-7.3
10Y3D_PC_48	OX09	Base-S3	72.00	4.26	8.00	375792	-55.26	75.09	2.1	19.7
10Y3D_PC_48	OX10	Base-S3	72.00	4.26	8.00	308582	2.76	45.38	8.3	3.7
10Y3D_PC_48	OX11	Base-S3	72.00	4.26	8.00	335844	48.14	-66.78	12.0	-8.0
10Y3D_PC_48	OX12	Base-S3	72.00	4.26	8.00	338898	3.29	-41.79	9.6	0.8
10Y3D_PC_48	OX13	Base-S3	72.00	4.26	8.00	379270	-38.50	29.59	10.5	-1.6
10Y3D_PC_48	OY03	Base-S3	72.00	4.26	8.00	186443	1.20	-126.62	3.5	-38.4
10Y3D_PC_48	OY04	Base-S3	72.00	4.26	8.00	325262	-198.16	112.93	-64.3	13.9
10Y3D_PC_48	OY05	Base-S3	72.00	4.26	8.00	349756	190.32	-108.42	40.7	-38.2
10Y3D_PC_48	OY06	Base-S3	72.00	4.26	8.00	366777	-176.09	53.53	-46.5	-21.5
10Y3D_PC_48	OY07	Base-S3	72.00	4.26	8.00	351095	85.77	-14.66	-15.2	-26.7
10Y3D_PC_48	OY08	Base-S3	72.00	4.26	8.00	164783	-13.54	-4.92	-23.4	-26.7
10Y3D_PC_48	2C09	Base-S3	72.00	4.99	8.00	768625	10.93	7.93	83.2	50.5
10Y3D_PC_48	2E05	Base-S3	72.00	4.52	8.00	2863231	18.98	18.68	112.3	33.0
10Y3D_PC_48	4C02	Base-S3	72.00	4.61	8.00	504497	57.80	55.20	94.9	87.4
10Y3D_PC_48	4C03	Base-S3	72.00	4.61	8.00	454812	63.86	61.52	93.1	56.2
10Y3D_PC_48	4C05	Base-S3	72.00	4.61	8.00	458803	155.86	153.49	209.1	208.5
10Y3D_PC_48	4D01	Base-S3	72.00	4.61	8.00	417383	153.87	151.72	211.9	194.9
10Y3D_PC_48	4D02	Base-S3	72.00	4.55	8.00	416492	152.09	150.19	198.3	182.8
10Y3D_PC_48	4D03	Base-S3	72.00	4.54	8.00	419898	155.20	153.29	223.5	210.2
10Y3D_PC_48	4D04	Base-S3	72.00	4.52	8.00	418741	153.66	151.85	213.6	201.5
10Y3D_PC_48	4D05	Base-S3	72.00	4.52	8.00	229338	152.22	151.23	204.9	195.6
10Y3D_PC_48	4D06	Base-S3	72.00	4.45	8.00	221882	151.23	150.44	195.6	188.0
10Y3D_PC_48	4E01	Base-S3	72.00	4.45	8.00	443455	169.50	167.93	224.4	210.2
10Y3D_PC_48	4E02	Base-S3	72.00	4.45	8.00	441074	228.33	226.79	334.8	321.9

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-3 72 HR NODAL STAGE REPORT FOR 10 YR 3 DAY STORM
 TABLE II-C-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10Y3D_PC_48	4E03	Base-S3	72.00	4.45	8.00	409944	202.14	200.70	227.8	216.3
10Y3D_PC_48	4E04	Base-S3	72.00	3.00	8.00	0	200.70	0.00	216.3	0.0
10Y3D_PC_48	CL01	Base-S3	72.00	5.11	8.00	1170054	5.92	-4.20	36.9	-6.1
10Y3D_PC_48	CL02	Base-S3	72.00	5.38	8.00	2814957	19.46	4.30	123.6	8.1
10Y3D_PC_48	CL03	Base-S3	72.00	5.88	8.00	375632	3.34	5.20	23.3	10.3
10Y3D_PC_48	CL04	Base-S3	72.00	5.19	8.00	984170	6.46	2.99	36.7	4.7
10Y3D_PC_48	CL05	Base-S3	72.00	5.01	8.00	1388848	13.10	5.86	66.7	10.9
10Y3D_PC_48	CL06	Base-S3	72.00	4.96	8.00	1023269	5.01	-1.92	37.9	-3.2
10Y3D_PC_48	CV01	Base-S3	72.00	5.83	8.00	2011746	11.62	-3.20	77.7	-4.8
10Y3D_PC_48	CV02	Base-S3	72.00	6.60	8.00	954562	7.76	16.94	63.9	21.0
10Y3D_PC_48	CV03	Base-S3	72.00	5.84	8.00	1777497	24.30	13.82	81.1	20.9
10Y3D_PC_48	CV04	Base-S3	72.00	5.05	8.00	238341	4.63	5.36	32.7	25.9
10Y3D_PC_48	CV05	Base-S3	72.00	5.05	8.00	2920813	37.03	45.93	185.8	60.8
10Y3D_PC_48	CV06	Base-S3	72.00	5.04	8.00	2313892	66.01	72.64	218.2	122.6
10Y3D_PC_48	FE01	Base-S3	72.00	5.21	8.00	542735	4.68	4.40	33.2	9.7
10Y3D_PC_48	FE02	Base-S3	72.00	5.16	8.00	490597	8.85	7.79	32.2	11.4
10Y3D_PC_48	FE03	Base-S3	72.00	5.16	8.00	231605	1.38	0.87	9.4	-0.8
10Y3D_PC_48	FE04	Base-S3	72.00	5.13	8.00	272814	10.76	10.04	28.4	17.3
10Y3D_PC_48	FE05	Base-S3	72.00	5.13	8.00	83184	0.93	0.71	5.7	2.6
10Y3D_PC_48	FE06	Base-S3	72.00	5.05	8.00	438385	13.24	11.59	38.4	20.7
10Y3D_PC_48	FT01	Base-S3	72.00	4.89	8.00	258011	2.53	1.65	18.7	8.0
10Y3D_PC_48	FT02	Base-S3	72.00	4.64	8.00	889102	33.78	28.79	100.4	67.6
10Y3D_PC_48	FT03	Base-S3	72.00	4.62	8.00	3207808	40.94	22.95	170.1	50.6
10Y3D_PC_48	FT04	Base-S3	72.00	4.71	8.00	237496	26.89	25.65	54.3	45.5
10Y3D_PC_48	FT05	Base-S3	72.00	4.79	8.00	210195	26.00	25.06	49.2	41.0
10Y3D_PC_48	FT06	Base-S3	72.00	4.89	8.00	576485	24.43	22.46	47.5	23.8
10Y3D_PC_48	HT01	Base-S3	72.00	5.16	8.00	556144	28.15	32.36	74.0	52.8
10Y3D_PC_48	HT02	Base-S3	72.00	4.93	8.00	200585	34.28	35.21	64.9	57.6
10Y3D_PC_48	HT03	Base-S3	72.00	4.62	8.00	1699535	58.74	60.03	179.2	121.2
10Y3D_PC_48	HT04	Base-S3	72.00	4.62	8.00	1280939	11.76	12.81	90.5	48.4
10Y3D_PC_48	HT05	Base-S3	72.00	4.54	8.00	570218	7.24	4.64	55.2	37.3
10Y3D_PC_48	HT06	Base-S3	72.00	5.48	8.00	1019159	11.39	23.36	94.5	43.4
10Y3D_PC_48	LIDO	Base-S3	72.00	4.89	8.00	3659040	13.55	0.95	102.9	-13.8
10Y3D_PC_48	ML01	Base-S3	72.00	5.09	8.00	779424	8.57	6.75	60.4	29.6
10Y3D_PC_48	ML02	Base-S3	72.00	5.08	8.00	827808	13.48	11.30	72.6	39.4
10Y3D_PC_48	ML03	Base-S3	72.00	5.08	8.00	1442235	20.02	15.91	98.8	37.3
10Y3D_PC_48	ML04	Base-S3	72.00	5.07	8.00	2040177	29.69	23.12	128.8	43.7
10Y3D_PC_48	ML05	Base-S3	72.00	5.05	8.00	3776825	43.52	29.67	205.3	37.7
10Y3D_PC_48	ML06	Base-S3	72.00	5.03	8.00	3490734	54.84	41.23	162.3	10.4
10Y3D_PC_48	ML07	Base-S3	72.00	5.00	8.00	544619	47.95	45.80	50.3	31.8
10Y3D_PC_48	ML08	Base-S3	72.00	4.99	8.00	474091	54.10	52.20	85.7	70.9
10Y3D_PC_48	MP01	Base-S3	72.00	4.61	8.00	911946	12.37	7.65	18.8	-7.4
10Y3D_PC_48	MP02	Base-S3	72.00	4.61	8.00	2415261	21.71	9.10	61.1	-4.8
10Y3D_PC_48	MP03	Base-S3	72.00	4.64	8.00	2464209	22.11	8.32	70.9	1.5
10Y3D_PC_48	MP04	Base-S3	72.00	4.64	8.00	153956	9.13	8.29	8.0	2.2
10Y3D_PC_48	MP05	Base-S3	72.00	4.61	8.00	379112	0.81	-1.22	7.4	-6.6
10Y3D_PC_48	MP06	Base-S3	72.00	4.66	8.00	270119	76.09	74.88	156.3	132.8
10Y3D_PC_48	MP07	Base-S3	72.00	4.79	8.00	1079	76.09	76.09	134.2	156.3
10Y3D_PC_48	MPE01	Base-S3	72.00	5.02	8.00	1959906	91.42	96.13	272.3	178.1
10Y3D_PC_48	NursNoLk	NursNoLk	72.00	5.12	8.00	264	0.63	0.63	5.1	5.1
10Y3D_PC_48	NWpembk145th	NursNoLk	72.00	4.93	7.00	283	20.04	20.04	43.8	34.7
10Y3D_PC_48	PG	Base-S3	72.00	5.19	8.00	2725	3.65	3.65	28.8	28.7
10Y3D_PC_48	PS01	Base-S3	72.00	4.90	8.00	1025074	8.24	4.96	57.7	18.3
10Y3D_PC_48	PS02	Base-S3	72.00	4.90	8.00	1566071	11.96	6.91	84.2	23.6

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-3 72 HR NODAL STAGE REPORT FOR 10 YR 3 DAY STORM
 TABLE II-C-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10Y3D_PC_48	PS03	Base-S3	72.00	4.89	8.00	3735093	30.46	18.12	176.5	28.6
10Y3D_PC_48	TpkExtension	Base-S3	72.00	4.26	8.00	805228	0.00	-7.06	0.0	-19.7

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-3 72 HR NODAL STAGE REPORT FOR 100 YR 3 DAY STORM
 TABLE II-C-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
100Y3D_PC48	0D07	Base-S3	72.00	4.95	8.00	261491	1.91	-281.57	10.5	-54.7
100Y3D_PC48	0D08	Base-S3	72.00	4.95	8.00	317497	-279.66	228.08	-44.2	43.4
100Y3D_PC48	0D09	Base-S3	72.00	4.95	8.00	270673	229.99	-1.77	53.8	-5.1
100Y3D_PC48	0D10	Base-S3	72.00	5.13	8.00	264990	1.75	746.38	9.7	163.2
100Y3D_PC48	0D11	Base-S3	72.00	5.12	8.00	314919	748.13	-344.67	172.9	-86.0
100Y3D_PC48	0D12	Base-S3	72.00	5.12	8.00	254504	-342.92	-4.27	-76.3	-11.1
100Y3D_PC48	0D13	Base-S3	72.00	5.12	8.00	266988	1.76	569.94	9.7	145.1
100Y3D_PC48	0D14	Base-S3	72.00	5.11	8.00	326759	571.70	-526.18	154.8	-146.7
100Y3D_PC48	0D15	Base-S3	72.00	5.12	8.00	265044	-524.42	-4.85	-137.0	-12.0
100Y3D_PC48	0E07	Base-S3	72.00	5.14	8.00	246237	-11.79	15.16	-40.7	-26.6
100Y3D_PC48	0E08	Base-S3	72.00	5.14	8.00	274347	5.21	-35.49	-46.9	-91.1
100Y3D_PC48	0E09	Base-S3	72.00	5.14	8.00	274198	-35.81	-27.41	-88.6	-94.2
100Y3D_PC48	0E10	Base-S3	72.00	5.14	8.00	245800	-26.84	-31.70	-89.0	-102.2
100Y3D_PC48	0E14	Base-S3	72.00	5.14	8.00	245174	0.61	24.08	1.2	13.9
100Y3D_PC48	0E15	Base-S3	72.00	5.14	8.00	251485	26.09	-2.44	23.0	-13.0
100Y3D_PC48	0E16	Base-S3	72.00	5.14	8.00	250029	2.28	-155.00	10.7	-57.5
100Y3D_PC48	0E17	Base-S3	72.00	5.14	8.00	272148	-152.72	168.49	-46.8	60.4
100Y3D_PC48	0E18	Base-S3	72.00	5.14	8.00	251308	170.77	-1.40	71.1	-2.5
100Y3D_PC48	0E19	Base-S3	72.00	5.14	8.00	268846	2.55	37.11	11.7	10.8
100Y3D_PC48	0E20	Base-S3	72.00	5.14	8.00	301974	39.66	-34.78	22.5	-12.1
100Y3D_PC48	0E21	Base-S3	72.00	5.14	8.00	268497	-32.22	-0.88	-0.3	-2.8
100Y3D_PC48	0E22	Base-S3	72.00	5.25	8.00	237466	1.99	-89.60	9.4	-39.3
100Y3D_PC48	0E23	Base-S3	72.00	5.25	8.00	277674	-230.56	-32.79	-176.2	-112.5
100Y3D_PC48	0E24	Base-S3	72.00	5.25	8.00	237401	-29.71	-142.94	-92.8	-146.4
100Y3D_PC48	0E25	Base-S3	72.00	5.36	8.00	283359	-29.67	-37.89	-99.8	-112.0
100Y3D_PC48	0E26	Base-S3	72.00	5.36	8.00	311645	-34.77	0.00	-99.3	-128.1
100Y3D_PC48	0E27	Base-S3	72.00	5.36	8.00	283114	3.12	-31.06	-115.4	-117.0
100Y3D_PC48	0X06	Base-S3	72.00	5.14	8.00	302899	4.37	-41.73	12.4	-63.2
100Y3D_PC48	0X07	Base-S3	72.00	5.14	8.00	348215	-37.36	123.34	-50.8	165.7
100Y3D_PC48	0X08	Base-S3	72.00	5.14	8.00	413543	4.51	87.18	19.7	140.3
100Y3D_PC48	0X09	Base-S3	72.00	5.14	8.00	453920	91.69	-123.01	160.0	-176.6
100Y3D_PC48	0X10	Base-S3	72.00	5.14	8.00	366163	4.23	-73.95	17.8	-117.9
100Y3D_PC48	0X11	Base-S3	72.00	5.14	8.00	395164	-69.72	96.31	-100.1	216.8
100Y3D_PC48	0X12	Base-S3	72.00	5.14	8.00	415729	5.03	76.44	21.0	131.2
100Y3D_PC48	0X13	Base-S3	72.00	5.14	8.00	456468	81.47	-27.00	152.1	-99.5
100Y3D_PC48	0Y03	Base-S3	72.00	5.14	8.00	188328	1.79	209.76	7.3	297.3
100Y3D_PC48	0Y04	Base-S3	72.00	5.14	8.00	350808	331.90	-194.77	460.9	-301.4
100Y3D_PC48	0Y05	Base-S3	72.00	5.14	8.00	395085	-314.36	162.37	-463.5	271.5
100Y3D_PC48	0Y06	Base-S3	72.00	5.14	8.00	410284	256.76	57.79	487.1	-241.6
100Y3D_PC48	0Y07	Base-S3	72.00	5.14	8.00	408347	34.72	23.12	-324.8	33.2
100Y3D_PC48	0Y08	Base-S3	72.00	5.14	8.00	166455	24.79	-8.16	40.1	-27.8
100Y3D_PC48	2C09	Base-S3	72.00	6.12	8.00	1193991	17.23	12.35	139.0	86.0
100Y3D_PC48	2E05	Base-S3	72.00	5.53	8.00	3692633	32.80	26.10	214.7	59.8
100Y3D_PC48	4C02	Base-S3	72.00	5.56	8.00	528273	56.98	51.25	132.3	21.7
100Y3D_PC48	4C03	Base-S3	72.00	5.56	8.00	474215	61.25	56.11	28.2	153.3
100Y3D_PC48	4C05	Base-S3	72.00	5.56	8.00	477373	161.46	156.29	406.1	294.3
100Y3D_PC48	4D01	Base-S3	72.00	5.56	8.00	435213	156.86	152.15	299.5	285.3
100Y3D_PC48	4D02	Base-S3	72.00	5.49	8.00	434888	152.72	148.38	290.6	269.0
100Y3D_PC48	4D03	Base-S3	72.00	5.49	8.00	438440	153.84	149.47	335.4	309.4
100Y3D_PC48	4D04	Base-S3	72.00	5.47	8.00	438328	150.05	145.82	314.7	295.2
100Y3D_PC48	4D05	Base-S3	72.00	5.47	8.00	240263	146.39	144.08	300.4	283.8
100Y3D_PC48	4D06	Base-S3	72.00	5.41	8.00	231706	144.08	142.12	283.8	289.8
100Y3D_PC48	4E01	Base-S3	72.00	5.41	8.00	462557	168.79	164.89	354.9	293.4
100Y3D_PC48	4E02	Base-S3	72.00	5.41	8.00	460922	238.65	234.75	481.9	486.4

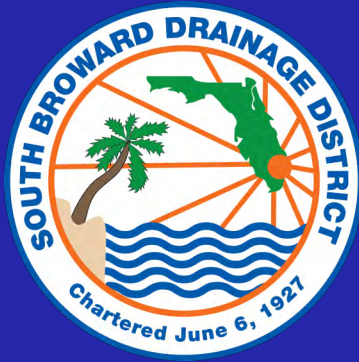
SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-3 72 HR NODAL STAGE REPORT FOR 100 YR 3 DAY STORM
 TABLE II-C-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
100Y3D_PC48	4E03	Base-S3	72.00	5.40	8.00	428466	204.26	200.70	374.7	344.2
100Y3D_PC48	4E04	Base-S3	72.00	3.00	8.00	0	200.70	0.00	344.2	0.0
100Y3D_PC48	CL01	Base-S3	72.00	6.17	8.00	1772698	10.63	-4.54	68.6	-8.8
100Y3D_PC48	CL02	Base-S3	72.00	6.48	8.00	4863001	32.56	4.47	221.6	10.8
100Y3D_PC48	CL03	Base-S3	72.00	7.05	8.00	752238	5.41	5.52	41.1	13.4
100Y3D_PC48	CL04	Base-S3	72.00	6.30	8.00	1796771	11.64	3.26	72.2	6.4
100Y3D_PC48	CL05	Base-S3	72.00	6.08	8.00	1800326	18.19	6.73	109.4	15.5
100Y3D_PC48	CL06	Base-S3	72.00	6.01	8.00	1259088	8.19	-2.21	63.5	-4.5
100Y3D_PC48	CV01	Base-S3	72.00	6.88	8.00	3234588	19.53	-3.59	138.7	-6.2
100Y3D_PC48	CV02	Base-S3	72.00	7.54	8.00	1896098	12.09	19.40	103.3	29.6
100Y3D_PC48	CV03	Base-S3	72.00	6.88	8.00	3091761	34.12	12.09	145.0	27.3
100Y3D_PC48	CV04	Base-S3	72.00	6.27	8.00	539666	7.39	8.52	56.8	40.0
100Y3D_PC48	CV05	Base-S3	72.00	6.27	8.00	3768819	48.86	56.66	295.7	79.6
100Y3D_PC48	CV06	Base-S3	72.00	6.25	8.00	3228778	88.30	93.96	338.4	167.9
100Y3D_PC48	FE01	Base-S3	72.00	6.46	8.00	972116	7.63	6.42	57.7	13.6
100Y3D_PC48	FE02	Base-S3	72.00	6.35	8.00	854879	13.30	10.12	54.4	16.3
100Y3D_PC48	FE03	Base-S3	72.00	6.35	8.00	358249	2.27	0.93	16.6	-1.4
100Y3D_PC48	FE04	Base-S3	72.00	6.30	8.00	502687	14.62	12.37	47.2	26.4
100Y3D_PC48	FE05	Base-S3	72.00	6.30	8.00	185561	1.56	0.73	10.7	4.3
100Y3D_PC48	FE06	Base-S3	72.00	6.18	8.00	710269	17.71	13.51	64.4	32.8
100Y3D_PC48	FT01	Base-S3	72.00	6.00	8.00	273085	4.10	2.60	31.9	14.5
100Y3D_PC48	FT02	Base-S3	72.00	5.60	8.00	913629	46.63	36.35	168.4	115.9
100Y3D_PC48	FT03	Base-S3	72.00	5.57	8.00	3207808	55.75	19.32	277.3	88.5
100Y3D_PC48	FT04	Base-S3	72.00	5.70	8.00	251231	35.51	32.98	85.5	71.1
100Y3D_PC48	FT05	Base-S3	72.00	5.84	8.00	221807	34.31	32.51	76.3	62.8
100Y3D_PC48	FT06	Base-S3	72.00	6.00	8.00	609854	31.88	28.52	71.0	32.2
100Y3D_PC48	HT01	Base-S3	72.00	6.39	8.00	1106123	35.45	37.49	114.7	71.7
100Y3D_PC48	HT02	Base-S3	72.00	6.07	8.00	357038	40.70	40.96	94.0	80.2
100Y3D_PC48	HT03	Base-S3	72.00	5.66	8.00	2031539	75.74	73.19	284.1	183.2
100Y3D_PC48	HT04	Base-S3	72.00	5.67	8.00	1576224	18.78	17.03	150.9	75.7
100Y3D_PC48	HT05	Base-S3	72.00	5.49	8.00	651446	11.40	4.89	92.2	61.0
100Y3D_PC48	HT06	Base-S3	72.00	6.83	8.00	1940206	17.73	27.39	152.0	58.6
100Y3D_PC48	LIDO	Base-S3	72.00	6.00	8.00	3659040	21.84	1.46	175.1	-35.0
100Y3D_PC48	ML01	Base-S3	72.00	6.30	8.00	1457923	13.98	13.29	105.2	45.8
100Y3D_PC48	ML02	Base-S3	72.00	6.27	8.00	1482518	24.53	20.74	124.1	61.7
100Y3D_PC48	ML03	Base-S3	72.00	6.25	8.00	2169807	35.18	26.96	166.0	58.6
100Y3D_PC48	ML04	Base-S3	72.00	6.22	8.00	3216205	49.85	33.20	221.5	71.2
100Y3D_PC48	ML05	Base-S3	72.00	6.19	8.00	4716006	65.80	37.23	334.6	60.0
100Y3D_PC48	ML06	Base-S3	72.00	6.16	8.00	4275197	73.09	47.49	264.6	15.0
100Y3D_PC48	ML07	Base-S3	72.00	6.11	8.00	1163867	58.82	52.66	90.8	53.4
100Y3D_PC48	ML08	Base-S3	72.00	6.10	8.00	518535	65.59	62.86	144.7	112.2
100Y3D_PC48	MP01	Base-S3	72.00	5.56	8.00	917621	15.17	5.21	32.1	-9.8
100Y3D_PC48	MP02	Base-S3	72.00	5.56	8.00	2415261	36.21	9.77	109.7	-9.1
100Y3D_PC48	MP03	Base-S3	72.00	5.59	8.00	2464209	38.03	9.89	122.7	-0.1
100Y3D_PC48	MP04	Base-S3	72.00	5.58	8.00	154308	11.16	9.43	10.5	1.2
100Y3D_PC48	MP05	Base-S3	72.00	5.55	8.00	379194	1.25	-2.97	11.5	-10.7
100Y3D_PC48	MP06	Base-S3	72.00	5.61	8.00	2701119	99.70	96.99	203.0	198.0
100Y3D_PC48	MP07	Base-S3	72.00	5.83	8.00	1079	99.71	99.70	222.0	203.0
100Y3D_PC48	MPE01	Base-S3	72.00	6.22	8.00	1959152	123.45	125.27	414.0	275.3
100Y3D_PC48	NursNoLk	NursNoLk	72.00	6.23	8.00	402	0.98	0.98	8.3	8.3
100Y3D_PC48	NWpembk145th	NursNoLk	72.00	6.07	7.00	283	25.56	25.56	53.3	57.5
100Y3D_PC48	PG	Base-S3	72.00	6.24	8.00	4029	5.70	5.70	47.9	47.5
100Y3D_PC48	PS01	Base-S3	72.00	6.02	8.00	1501671	13.50	6.69	100.3	30.8
100Y3D_PC48	PS02	Base-S3	72.00	6.02	8.00	2249325	19.59	8.62	146.0	39.8

SOUTH BROWARD DRAINAGE DISTRICT
 BASIN S-3 72 HR NODAL STAGE REPORT FOR 100 YR 3 DAY STORM
 TABLE II-C-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
100Y3D_PC48	PS03	Base-S3	72.00	6.01	8.00	4800291	46.14	21.48	300.0	47.2
100Y3D_PC48	TpkExtension	Base-S3	72.00	5.13	8.00	1177379	0.00	-10.86	0.0	-38.5

SOUTH BROWARD DRAINAGE DISTRICT



BASIN S-4



BASIN S-4

DESCRIPTION

Basin S-4 is located in the southern quadrant of the District and consists of approximately 3.25 square miles. It is bordered on the west by SW 172nd Avenue, on the south by the Miami-Dade County/Broward County line, on the east by Interstate 75 and on the north by Pembroke Road and SW 25th Street. The entire basin lies within the City of Miramar.

The Basin S-4 boundaries and existing facilities are shown in Figure II-D-1 and Table II-D-1 provides a summary of the basin characteristics.

As with Basin S-3, the vast majority of the Basin S-4 has been developed, and for those properties that are left to be developed, the required water management system is in place and operational.

Since 2013, the following improvements have been completed within the S-4 Basin:

S-4 Pump Station Improvements

- Rebuilt one of two diesel engines.
- Installed a manually operated sluice gate with electric motor and tie-in to the District's telemetry system.
- Rebuilt the gear drives for both engines.
- Upgraded the engine control panels for improved automation and to allow remote operations.

Basin-Wide Improvements

- Culvert No. 4-19 was extended as part of the Space Coast Credit Union development on the southeast corner of Dykes Road and Miramar Parkway.
- Installed revetment stabilization at miscellaneous lake interconnects.
- Completed miscellaneous culvert cleanings.

The following new developments have been completed:

- Texas Roadhouse, Space Coast Credit Union (Dykes Rd & Miramar Pkwy), Primrose School, Outparcel 4 at the Fountains, Toledo Isles, and Memorial Hospital – Miramar Location.

The following infrastructure improvements are proposed for the S-4 Basin:

- Complete the rebuild of all Caterpillar engines, as necessary.
- Install a fire suppression system inside the S-4 pump station.
- Continue to rehabilitate aging infrastructure (i.e.: primary drainage culverts), as needed.
- Continued hardening of lake banks and headwalls at critical lake interconnect locations.

- Continued installation of boat ramps for improved access by SBDD maintenance crews as needed.
- Miscellaneous, on-going culvert repairs/replacements.

METHODOLOGY

The water management system for the S-4 Basin consists of a series of interconnected lakes that convey stormwater to the SFWMD C-9 Canal via the S-4 Pump Station. The S-4 pump station controls the permitted discharge rate (70 cfs) and provides water quality for the entire basin. Water quality requirements and discharge rates from the S-4 Basin are regulated by the SFWMD Permit # 06-01835-S. The pumps for Basins S-4 and S-5 are housed in one building located at the SFWMD C-9 Canal, west of SW 172nd Avenue in the City of Miramar.

Since the last update of this report, there has been a limited amount of new development within the S-4 Basin. All the water management areas that serve the basin are in place and operational. Therefore, the AdICPR model for this basin was not updated.

Figure II-D-1 depicts the existing facilities in Basin S-4 and Table II-D-2 provides the existing culvert schedule for the basin. Figures II-D-2, II-D-3, II-D-4, and II-D-5 show the existing flood gates, control structures, staff gauges, and fish guards within basin S-4, respectively, with corresponding Schedule Tables II-D-3, II-D-4, II-D-5 and II-D-6.

MODEL ANALYSIS

Basin S-4 is comprised primarily of a series of lakes with interconnecting culverts, which ultimately connect to the S-4 pump station. Based on the AdICPR model results, all properties within Basin S-4 meets the District's adopted Level of Service.

Figure II-D-6 shows the overall AdICPR nodal diagram for Basin S-4 and Tables II-D-7 and II-D-8 list the AdICPR output data for maximum stages and 72-hour stages at each node within the basin.

SUMMARY & RECOMMENDATIONS

The AdICPR model analysis performed for Basin S-4 indicates that the adopted Level of Service is being met in this basin.

There are no basin improvements recommended at this time. The existing facilities within the basin currently provide adequate storage, conveyance, and equalization. The 70 cfs pump station ensures that the SFWMD permitted water quality and quantity requirements for the basin are being attained.

All undeveloped areas and redevelopment projects shall provide a minimum of 20% water management area, or equivalent.

TABLE II-D-1

**SUMMARY OF BASIN CHARACTERISTICS
BASIN S-4**

GENERAL

TOTAL BASIN AREA	(AC)	1988
TOTAL PERVIOUS AREA	(AC)	913 (46%)
TOTAL IMPERVIOUS AREA	(AC)	512 (26%)
LAKE AREA	(AC)	563 (28%)
DESIGN CONTROL ELEVATION	(FT NGVD)	3.50
10-YEAR 3-DAY FLOOD ELEVATION (MINIMUM ROAD CROWN)	(FT NGVD)	6.00
100-YEAR 3-DAY FLOOD ELEVATION (MINIMUM FINISHED FLOOR ELEVATION)	(FT NGVD)	7.50

Note:

All undeveloped areas are required to have a minimum of 20% water management area and to comply with all SFWMD and SBDD minimum design criteria.

S.F.W.M.D. PERMIT CONDITIONS (PERMIT # 06-01835-S)

DISCHARGE CONTROL STRUCTURE		PUMP STA
DISCHARGE CAPACITY	(CFS)	70
RECEIVING WATER		SFWMD C-9

CANAL

N/A

BASIN S-4



Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™

SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-4 EXISTING FACILITIES MAP

2019 UPDATE

Legend

-  SFWMD Canal
-  Culverts
-  SBDD Pump Station
-  Water Bodies



0 500 1,000 2,000 3,000
Feet

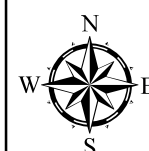
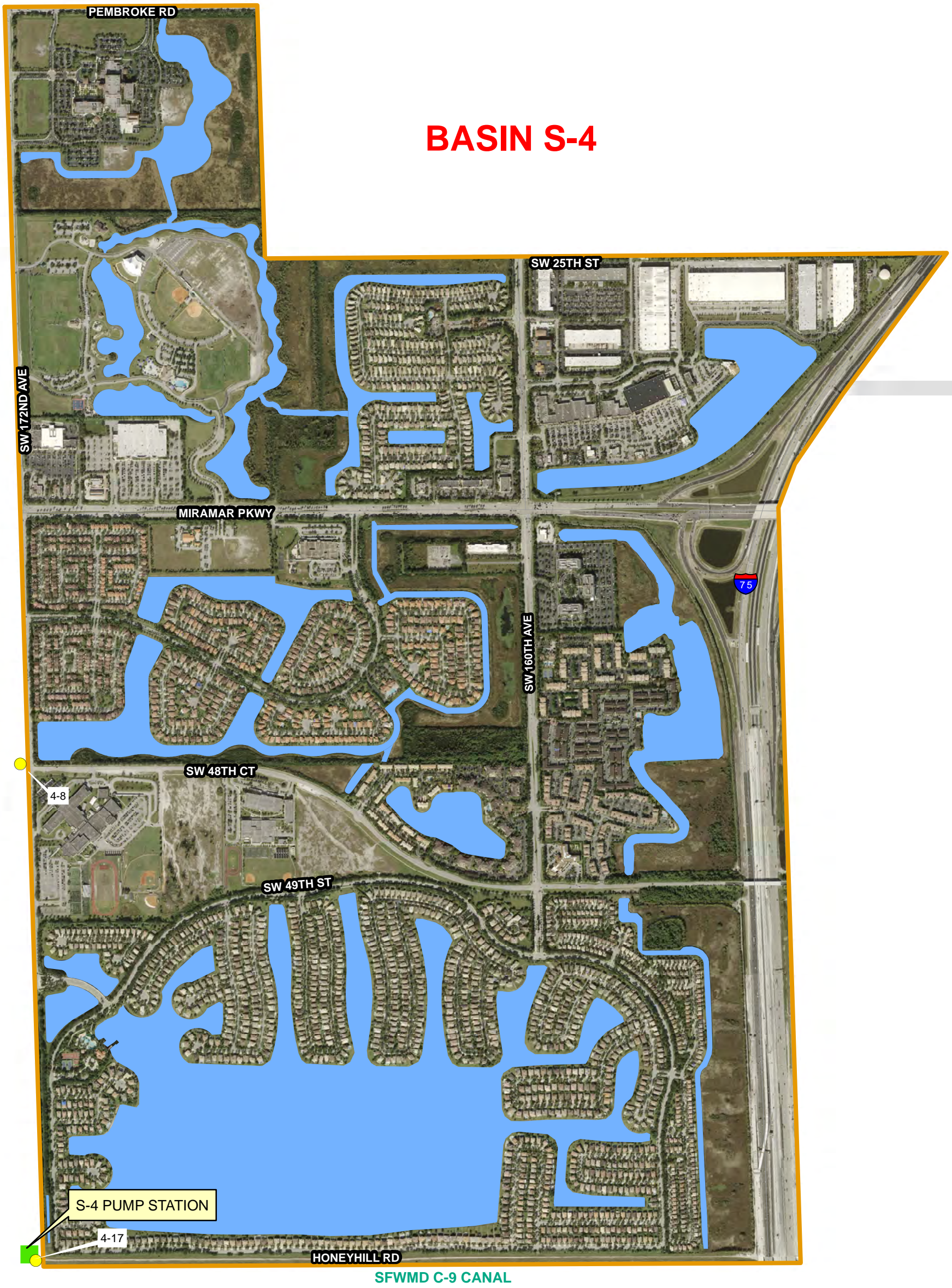


FIGURE II-D-1

TABLE II-D-2

<i>BASIN S-4 EXISTING CULVERT SCHEDULE</i>							
<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
4-1	Silver Isles	SW 163rd Ave & (S) of SW 29th Street	48	RCP	CIRC.	339	
4-2	Silver Isles	(W) of SW 163rd Ave. & SW 30th Street	48	RCP	CIRC.	310	
4-3	Silver Isles / Fountains of Miramar	Dykes Rd. (N) of Miramar Pkwy.	48	RCP	CIRC.	694	
4-4	Silver Isles / Nautica	SW 164th Ave. & Miramar Pkwy.	48	RCP	CIRC.	742	
4-5	Nautica	East Pipe - 16400 SW 164th Ave.	48	RCP	CIRC.	282	
4-6	Nautica	Center Pipe - SW 36th Ct.	48	RCP	CIRC.	158	
4-7	Nautica	West Pipe - SW 37th Ct.	48	RCP	CIRC.	161	
4-8	Nautica / Silver Lakes	SW 172nd Ave. & Bass Creek Rd.	48 & 60	CAP	CIRC.	261	Control Structure / Flood Gate
4-9.1	Riviera Isles Village 18	Bass Creek Rd. & (W) of Dykes Rd.	54	RCP	CIRC.	928	
4-9.2	Riviera Isles Village 18	Bass Creek Rd. & (W) of Dykes Rd.	54	RCP	CIRC.	928	
4-10	Country Lakes / Riviera Isles	Bass Creek Rd. (E) of Dykes Rd.	48	RCP	CIRC.	238	
4-11	Riviera Isles	SW 155th Ave. & SW 51st Pl.	60	RCP	CIRC.	506	
4-12	Riviera Isles	Riviera Isles - (E) of Entry Road	48	RCP	CIRC.	182	
4-13	Riviera Isles	Riviera Isles - (W) of Entry Road	48	RCP	CIRC.	181	
4-14	Riviera Isles - Outfall	5275 SW 171st Ave.	84	RCP	CIRC.	217	
4-15	S-4 Pump Station	S-4 Pump Station Inflow Pipe	84	RCP	CIRC.	89	
4-16	Riviera Isles - Regalo	(N) of Bass Creek Rd. & (W) of Dykes Rd.	72 & 54	RCP	CIRC.	375	
4-17.1	S-4 Pump Station	5500 SW 172nd Ave.	30	DIP	CIRC.	130	31K GPM, Pump # 1
4-17.2	S-4 Pump Station	5500 SW 172nd Ave.	30	DIP	CIRC.	130	31K GPM, Pump # 2
4-17.3	S-4 Pump Station	5500 SW 172nd Ave.	30	DIP	CIRC.	130	Flood Gate
4-18	Dykes Rd. & Miramar Pkwy.	Dykes Rd. & Miramar Pkwy.	72	RCP	CIRC.	408	
4-19	Nautica / Space Coast Credit Union	Dykes Rd. (S) of Miramar Pkwy.	48 & 54	RCP	CIRC.	480	
4-20	Miramar Regional Park	16801 Miramar Pkwy. - Entrance	BRIDGE				
4-21	Miramar Regional Park	16801 Miramar Pkwy. - (S) near Aquatic Center	BRIDGE				
4-22	Miramar Regional Park	16801 Miramar Pkwy. - (N) near Baseball Fields	BRIDGE				

BASIN S-4







Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™

SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-4 FLOOD GATE MAP

2019 UPDATE

Legend

-  Flood Gate
-  SFWMD Canal
-  SBDD Pump Station
-  Water Bodies



0 500 1,000 2,000 3,000
Feet



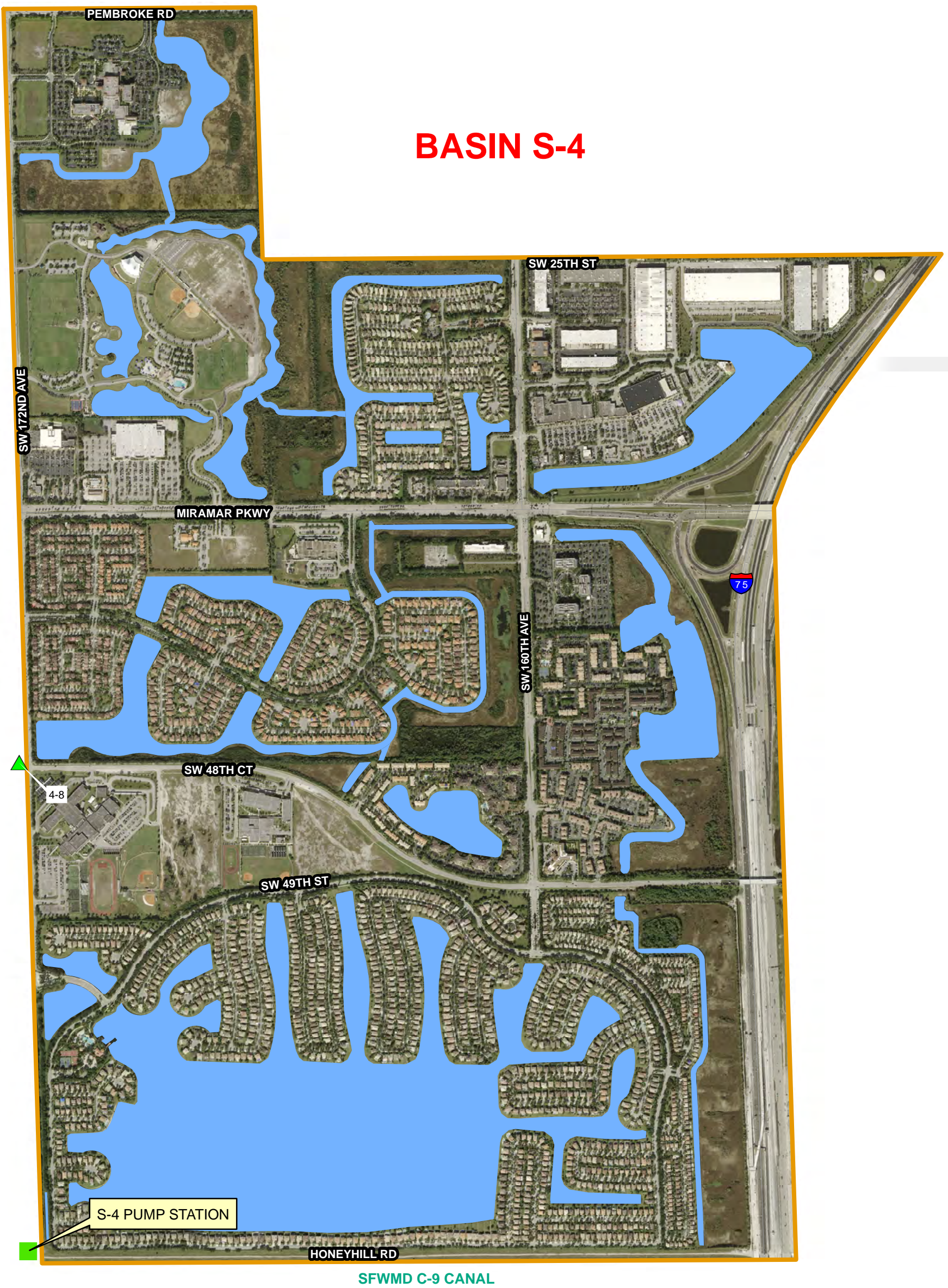
FIGURE II-D-2

TABLE II-D-3





BASIN S-4 FLOOD GATE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
4-8	Silver Lakes / Nautica	SW 172nd Ave. & Bass Creek Rd.	60" W X 60" H
4-17.3	SBDD S-4 Pump Station	5500 SW 172nd Ave.	54" W X 54" H

BASIN S-4



Legend

-  Control Structures
-  SFWMD Canal
-  SBDD Pump Station
-  Water Bodies

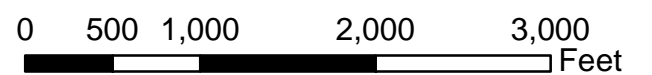


FIGURE II-D-3

TABLE II-D-4

BASIN S-4 CONTROL STRUCTURE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>General Comments</i>
4-8	Silver Lakes	SW 172nd Ave. & Bass Creek Rd.	Over-Flow Structure @ 8.92 NGVD

BASIN S-4



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-4 STAFF GAUGE MAP

Legend





-  Staff Gauge
-  SFWMD Canal
-  SBDD Pump Station
-  Water Bodies



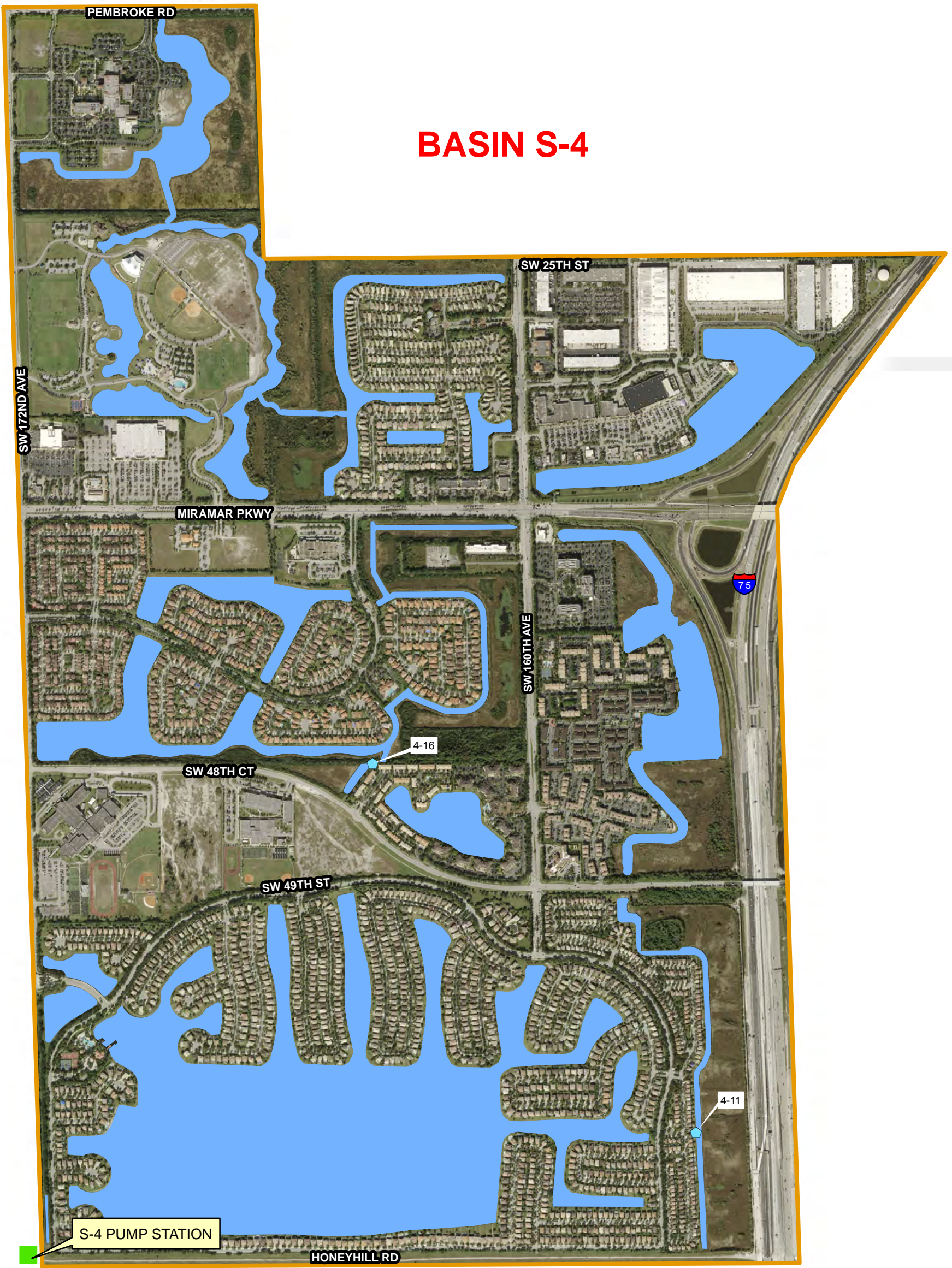
FIGURE II-D-4

TABLE II-D-5

BASIN S-4 STAFF GAUGE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
26	Nautica	(SW) corner of Miramar Pkwy. & Dykes Rd.	
32	S-4 Pump Station Upstream	5500 SW 172nd Ave.	Telemetry
34	S-4 / S-5 Pump Station Downstream	(S) of 5500 SW 172nd Ave.	Telemetry
63	Home Depot at the Fountains	Miramar Pkwy. & Dykes Rd.	Water Level Recorder





BASIN S-4



SFWMD C-9 CANAL

SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-4 FISH GUARD MAP

Legend

-  Fish Guards
-  SFWMD Canal
-  SBDD Pump Station
-  Water Bodies

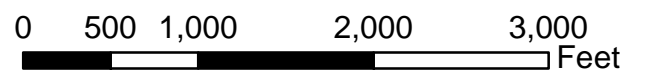
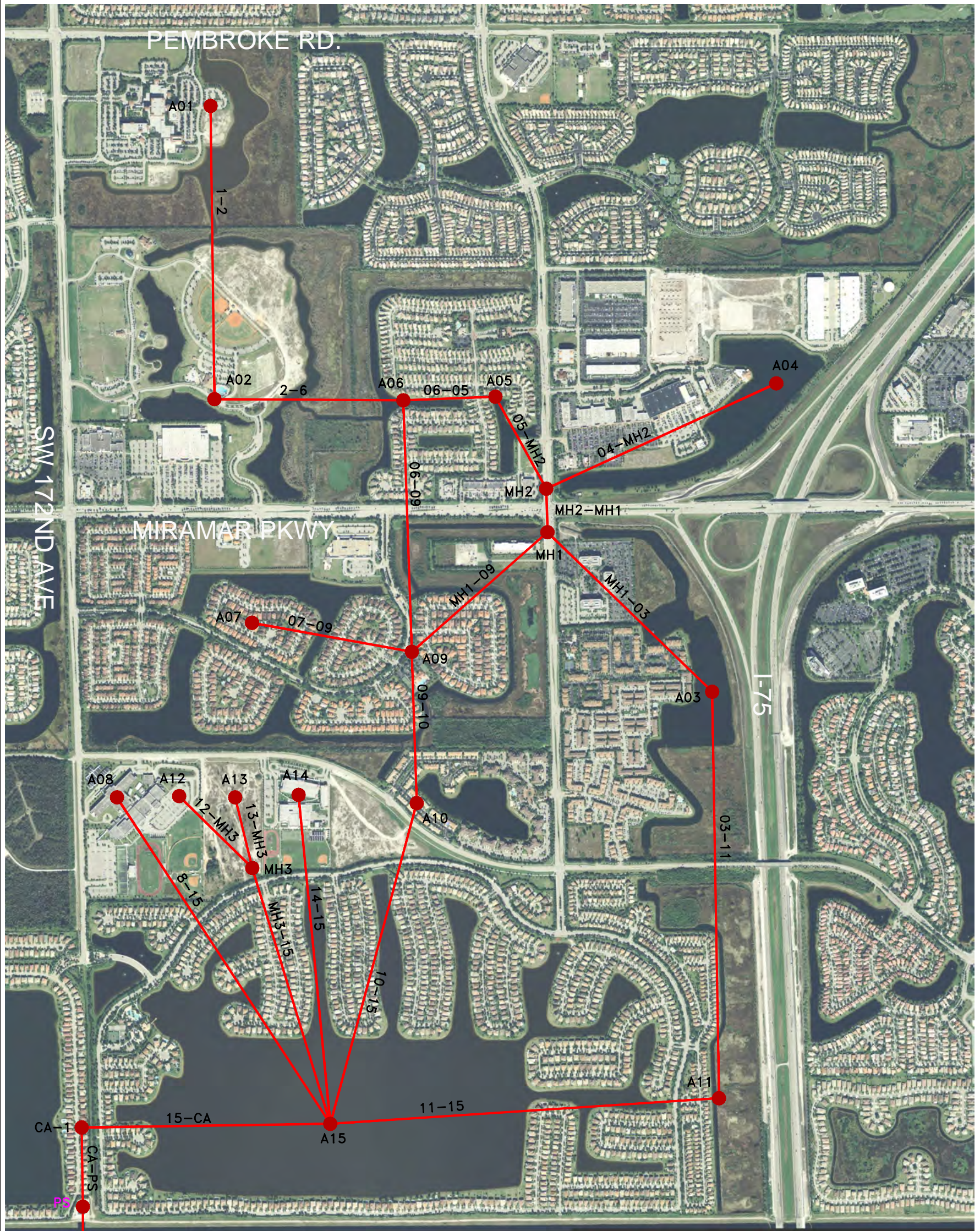


FIGURE II-D-5

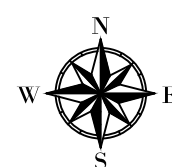
TABLE II-D-6

BASIN S-4 FISH GUARD SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>
4-11	Riviera Isles	5131 SW 155th Ave.
4-16	Regalo @ Riviera Isles	4705 SW 164th Ave.



BASIN 4
NODAL DIAGRAM



SCALE = N.T.S.

FIGURE II-D-6

TABLE II-D-7

BASIN S-4

BASIN MAXIMUM STAGE REPORT

10-YEAR, 3-DAY STORM

25-YEAR, 3-DAY STORM

100-YEAR, 3-DAY STORM

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-4 MAX STAGE REPORT
 TABLE II-D-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
A-01	BASIN-S4	100YR_3DAY	73.88	6.34	7.50	0.0007	2636895	60.00	804.38	60.02	200.91
A-01	BASIN-S4	10YR_3DAY	72.44	5.55	7.50	0.0005	1841843	60.00	501.62	59.98	168.11
A-01	BASIN-S4	25YR_3DAY	72.87	5.93	7.50	0.0006	2228859	60.00	633.40	59.92	181.80
A-02	BASIN-S4	100YR_3DAY	73.88	6.34	7.50	0.0007	7187036	60.00	1154.95	102.13	16.32
A-02	BASIN-S4	10YR_3DAY	72.44	5.55	7.50	0.0005	4302065	60.00	740.55	81.67	17.83
A-02	BASIN-S4	25YR_3DAY	72.87	5.93	7.50	0.0006	6205782	60.00	916.67	90.45	17.93
A-03	BASIN-S4	100YR_3DAY	72.31	6.31	7.50	0.0008	4382183	60.00	1271.36	60.38	38.11
A-03	BASIN-S4	10YR_3DAY	72.28	5.44	7.50	0.0005	3073598	60.00	814.29	60.66	30.65
A-03	BASIN-S4	25YR_3DAY	72.30	5.86	7.50	0.0006	3570072	60.00	1015.28	60.60	35.34
A-04	BASIN-S4	100YR_3DAY	64.68	6.71	7.50	0.0021	4978131	60.00	1329.08	61.32	49.76
A-04	BASIN-S4	10YR_3DAY	62.63	6.00	7.50	0.0021	2875825	60.00	861.96	61.22	56.86
A-04	BASIN-S4	25YR_3DAY	64.18	6.35	7.50	0.0021	4009948	60.00	1064.87	61.22	53.92
A-05	BASIN-S4	100YR_3DAY	72.24	6.38	7.50	0.0025	634248	60.00	173.16	60.05	12.78
A-05	BASIN-S4	10YR_3DAY	72.11	5.56	7.50	0.0025	302040	60.00	98.80	83.60	10.51
A-05	BASIN-S4	25YR_3DAY	72.16	5.96	7.50	0.0025	441113	60.00	128.59	60.08	12.92
A-06	BASIN-S4	100YR_3DAY	73.88	6.34	7.50	0.0007	2758856	60.00	646.92	101.91	20.81
A-06	BASIN-S4	10YR_3DAY	72.44	5.55	7.50	0.0005	2016939	60.00	432.31	82.13	23.99
A-06	BASIN-S4	25YR_3DAY	72.87	5.93	7.50	0.0006	2320294	60.00	537.27	90.98	23.05
A-07	BASIN-S4	100YR_3DAY	72.23	6.31	7.50	0.0012	2030859	60.00	741.02	60.15	138.80
A-07	BASIN-S4	10YR_3DAY	72.17	5.46	7.50	0.0009	872427	60.00	464.19	60.26	141.00
A-07	BASIN-S4	25YR_3DAY	72.19	5.87	7.50	0.0012	1335813	60.00	584.67	60.18	146.86
A-08	BASIN-S4	100YR_3DAY	60.87	6.59	7.50	-0.1463	1009937	60.00	288.63	0.00	88.76
A-08	BASIN-S4	10YR_3DAY	60.50	6.13	7.50	-0.1463	464185	60.00	163.95	0.00	88.76
A-08	BASIN-S4	25YR_3DAY	60.68	6.36	7.50	-0.1463	748780	60.00	217.72	0.00	88.76
A-09	BASIN-S4	100YR_3DAY	72.30	6.30	7.50	0.0008	5216718	60.00	1464.81	62.39	50.67
A-09	BASIN-S4	10YR_3DAY	72.23	5.46	7.50	0.0005	3782235	60.00	959.83	62.93	45.79
A-09	BASIN-S4	25YR_3DAY	72.25	5.87	7.50	0.0006	4389846	60.00	1192.27	61.99	50.03
A-10	BASIN-S4	100YR_3DAY	72.25	6.25	7.50	0.0009	967997	60.00	294.99	60.16	69.14
A-10	BASIN-S4	10YR_3DAY	72.18	5.39	7.50	0.0005	500314	60.00	181.71	60.75	55.35
A-10	BASIN-S4	25YR_3DAY	72.21	5.80	7.50	0.0007	689754	60.00	229.99	60.62	63.26
A-11	BASIN-S4	100YR_3DAY	73.06	6.19	7.50	0.0006	2741016	60.00	674.38	75.22	22.97
A-11	BASIN-S4	10YR_3DAY	73.45	5.32	7.50	0.0004	2215146	60.00	424.13	75.39	23.36
A-11	BASIN-S4	25YR_3DAY	73.50	5.74	7.50	0.0005	2433075	60.00	533.75	75.21	23.38
A-12	BASIN-S4	100YR_3DAY	72.76	6.14	7.50	-0.0761	592929	60.17	88.80	0.00	63.32
A-12	BASIN-S4	10YR_3DAY	60.56	5.58	7.50	-0.0761	241784	60.17	50.00	0.00	63.32
A-12	BASIN-S4	25YR_3DAY	60.98	5.80	7.50	-0.0761	409041	60.17	66.73	0.00	63.32
A-13	BASIN-S4	100YR_3DAY	60.45	6.29	7.50	-0.2153	274738	60.00	120.24	0.00	103.63
A-13	BASIN-S4	10YR_3DAY	60.17	5.64	7.50	-0.2153	59937	60.00	67.87	0.00	103.63
A-13	BASIN-S4	25YR_3DAY	60.27	5.99	7.50	-0.2153	117730	60.00	90.45	0.00	103.63
A-14	BASIN-S4	100YR_3DAY	72.60	6.13	7.50	-0.1230	423414	60.08	67.66	0.00	75.39
A-14	BASIN-S4	10YR_3DAY	72.58	5.26	7.50	-0.1230	6554	60.08	38.65	0.00	75.39
A-14	BASIN-S4	25YR_3DAY	72.66	5.68	7.50	-0.1230	222812	60.08	51.16	0.00	75.39

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-4 MAX STAGE REPORT
 TABLE II-D-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
A-15	BASIN-S4	100YR_3DAY	72.65	6.13	7.50	0.0007	13444911	60.00	3883.37	60.00	78.74
A-15	BASIN-S4	10YR_3DAY	72.63	5.26	7.50	0.0004	10684337	60.00	2545.23	60.00	75.17
A-15	BASIN-S4	25YR_3DAY	72.71	5.68	7.50	0.0005	11879718	60.00	3136.62	60.00	76.72
C-9	BASIN-S4	100YR_3DAY	0.00	3.50	7.50	0.0000	0	41.90	69.07	0.00	0.00
C-9	BASIN-S4	10YR_3DAY	0.00	3.50	7.50	0.0000	0	55.05	69.07	0.00	0.00
C-9	BASIN-S4	25YR_3DAY	0.00	3.50	7.50	0.0000	0	49.78	69.07	0.00	0.00
CA-1	BASIN-S4	100YR_3DAY	72.67	6.05	8.50	0.0007	23667	60.00	78.74	60.01	70.99
CA-1	BASIN-S4	10YR_3DAY	72.64	5.18	8.50	-0.0005	22149	60.00	75.17	60.01	70.33
CA-1	BASIN-S4	25YR_3DAY	72.73	5.60	8.50	0.0005	22875	60.00	76.72	60.01	70.62
MH-1	BASIN-S4	100YR_3DAY	72.27	6.33	6.00	0.0083	197	60.04	59.34	60.19	57.84
MH-1	BASIN-S4	10YR_3DAY	72.19	5.48	6.00	0.0083	197	60.22	55.72	60.26	56.93
MH-1	BASIN-S4	25YR_3DAY	72.22	5.90	6.00	0.0083	197	60.15	59.84	60.19	60.99
MH-2	BASIN-S4	100YR_3DAY	72.17	6.42	6.00	-0.0057	243	60.06	57.72	60.04	59.34
MH-2	BASIN-S4	10YR_3DAY	72.05	5.56	6.00	-0.0057	243	60.40	57.07	60.22	55.72
MH-2	BASIN-S4	25YR_3DAY	72.11	5.99	6.00	-0.0057	243	60.19	60.48	60.15	59.84
MH-3	BASIN-S4	100YR_3DAY	72.56	6.13	6.00	0.1833	221	0.00	166.95	0.00	101.30
MH-3	BASIN-S4	10YR_3DAY	72.18	5.26	6.00	0.1833	221	0.00	166.95	0.00	101.30
MH-3	BASIN-S4	25YR_3DAY	72.43	5.68	6.00	0.1833	221	0.00	166.95	0.00	101.30
PS	BASIN-S4	100YR_3DAY	72.67	5.98	10.67	0.0018	5417	60.01	70.99	41.90	69.07
PS	BASIN-S4	10YR_3DAY	72.65	5.11	10.67	0.0029	5417	60.01	70.33	55.05	69.07
PS	BASIN-S4	25YR_3DAY	72.73	5.53	10.67	0.0018	5417	60.01	70.62	49.78	69.07

TABLE II-D-8

BASIN S-4

72-HOUR NODAL STAGE REPORT

10-YEAR, 3-DAY STORM

25-YEAR, 3-DAY STORM

100-YEAR, 3-DAY STORM

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-4 72 HR NODAL STAGE REPORT FOR 10 YR 3 DAY STORM
 TABLE II-D-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10YR_3DAY	A-01	BASIN-S4	71.83	5.54	7.50	1837371	10.76	10.53	79.1	22.0
10YR_3DAY	A-02	BASIN-S4	71.83	5.54	7.50	4280066	26.53	0.00	129.2	-7.2
10YR_3DAY	A-03	BASIN-S4	71.83	5.44	7.50	3070091	34.94	24.21	209.9	41.7
10YR_3DAY	A-04	BASIN-S4	71.83	5.78	7.50	2160620	19.03	35.18	160.1	100.8
10YR_3DAY	A-05	BASIN-S4	71.83	5.56	7.50	301498	-3.81	-4.40	-12.6	-6.6
10YR_3DAY	A-06	BASIN-S4	71.83	5.54	7.50	2013436	9.31	8.03	61.3	-20.4
10YR_3DAY	A-07	BASIN-S4	71.83	5.45	7.50	869642	10.06	7.42	75.3	45.9
10YR_3DAY	A-08	BASIN-S4	71.83	5.26	7.50	3910	3.98	3.96	23.9	29.8
10YR_3DAY	A-09	BASIN-S4	71.83	5.45	7.50	3778550	51.96	40.42	248.9	58.8
10YR_3DAY	A-10	BASIN-S4	71.83	5.39	7.50	499007	44.92	43.08	92.5	73.8
10YR_3DAY	A-11	BASIN-S4	71.83	5.31	7.50	2210654	32.87	22.40	104.6	18.6
10YR_3DAY	A-12	BASIN-S4	71.83	5.26	7.50	9850	1.66	3.95	9.8	-6.2
10YR_3DAY	A-13	BASIN-S4	71.83	5.26	7.50	1805	1.67	6.52	9.8	-22.1
10YR_3DAY	A-14	BASIN-S4	71.83	5.26	7.50	3629	1.24	1.22	7.6	2.6
10YR_3DAY	A-15	BASIN-S4	71.83	5.26	7.50	10666709	113.43	69.20	558.5	87.3
10YR_3DAY	C-9	BASIN-S4	71.83	3.50	7.50	0	69.07	0.00	90.1	0.0
10YR_3DAY	CA-1	BASIN-S4	71.83	5.18	8.50	22138	69.20	69.10	87.3	116.3
10YR_3DAY	MH-1	BASIN-S4	71.83	5.48	6.00	197	30.78	30.78	-31.6	140.0
10YR_3DAY	MH-2	BASIN-S4	71.83	5.56	6.00	243	30.78	30.78	94.2	-31.6
10YR_3DAY	MH-3	BASIN-S4	71.83	5.26	6.00	221	10.47	-4.15	-28.3	63.1
10YR_3DAY	PS	BASIN-S4	71.83	5.11	10.67	5417	69.10	69.07	116.3	90.1

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-4 72 HR NODAL STAGE REPORT FOR 25 YR 3 DAY STORM
 TABLE II-D-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR_3DAY	A-01	BASIN-S4	71.83	5.93	7.50	2222054	13.40	11.12	101.9	24.8
25YR_3DAY	A-02	BASIN-S4	71.83	5.93	7.50	6172307	31.39	0.00	166.1	-13.8
25YR_3DAY	A-03	BASIN-S4	71.83	5.86	7.50	3564725	38.13	24.33	246.0	49.3
25YR_3DAY	A-04	BASIN-S4	71.83	6.25	7.50	3676003	23.42	38.95	200.1	105.6
25YR_3DAY	A-05	BASIN-S4	71.83	5.96	7.50	440209	-7.43	-8.69	-11.9	-11.8
25YR_3DAY	A-06	BASIN-S4	71.83	5.93	7.50	2314975	11.59	1.11	74.5	-26.7
25YR_3DAY	A-07	BASIN-S4	71.83	5.87	7.50	1332210	12.51	8.14	96.6	56.7
25YR_3DAY	A-08	BASIN-S4	71.83	5.68	7.50	159389	5.11	4.29	32.5	36.5
25YR_3DAY	A-09	BASIN-S4	71.83	5.87	7.50	4384408	54.52	40.02	294.8	68.3
25YR_3DAY	A-10	BASIN-S4	71.83	5.80	7.50	687883	45.62	42.91	111.5	87.2
25YR_3DAY	A-11	BASIN-S4	71.83	5.73	7.50	2428014	35.12	22.55	130.5	22.3
25YR_3DAY	A-12	BASIN-S4	71.83	5.68	7.50	314021	2.13	3.42	13.3	-3.3
25YR_3DAY	A-13	BASIN-S4	71.83	5.68	7.50	66257	2.14	6.73	13.4	-18.7
25YR_3DAY	A-14	BASIN-S4	71.83	5.67	7.50	219086	1.59	0.45	10.2	4.8
25YR_3DAY	A-15	BASIN-S4	71.83	5.67	7.50	11859640	122.68	69.22	686.8	111.4
25YR_3DAY	C-9	BASIN-S4	71.83	3.50	7.50	0	69.07	0.00	111.4	0.0
25YR_3DAY	CA-1	BASIN-S4	71.83	5.59	8.50	22862	69.22	69.10	111.4	134.6
25YR_3DAY	MH-1	BASIN-S4	71.83	5.89	6.00	197	30.26	30.26	-18.9	140.4
25YR_3DAY	MH-2	BASIN-S4	71.83	5.99	6.00	243	30.26	30.26	93.8	-18.9
25YR_3DAY	MH-3	BASIN-S4	71.83	5.67	6.00	221	10.15	-5.70	-22.0	66.3
25YR_3DAY	PS	BASIN-S4	71.83	5.52	10.67	5417	69.10	69.07	134.6	111.4

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-4 72 HR NODAL STAGE REPORT FOR 100 YR 3 DAY STORM
 TABLE II-D-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
100YR_3DAY	A-01	BASIN-S4	71.83	6.33	7.50	2627081	16.82	0.00	132.1	32.8
100YR_3DAY	A-02	BASIN-S4	71.83	6.33	7.50	7168119	25.83	-8.46	220.0	-22.6
100YR_3DAY	A-03	BASIN-S4	71.83	6.30	7.50	4372524	41.05	23.43	287.6	60.5
100YR_3DAY	A-04	BASIN-S4	71.83	6.68	7.50	4900687	29.13	38.98	252.5	110.9
100YR_3DAY	A-05	BASIN-S4	71.83	6.37	7.50	632418	-8.43	-10.78	-7.7	-16.5
100YR_3DAY	A-06	BASIN-S4	71.83	6.33	7.50	2747761	6.07	-4.23	91.8	-33.1
100YR_3DAY	A-07	BASIN-S4	71.83	6.30	7.50	2024003	15.69	8.30	124.7	68.4
100YR_3DAY	A-08	BASIN-S4	71.83	6.13	7.50	461111	6.58	4.14	44.2	44.6
100YR_3DAY	A-09	BASIN-S4	71.83	6.30	7.50	5208003	56.90	37.70	348.9	82.1
100YR_3DAY	A-10	BASIN-S4	71.83	6.24	7.50	964705	44.73	40.67	138.0	105.3
100YR_3DAY	A-11	BASIN-S4	71.83	6.18	7.50	2733068	36.98	22.23	166.0	31.1
100YR_3DAY	A-12	BASIN-S4	71.83	6.13	7.50	590257	2.75	2.53	18.2	-2.4
100YR_3DAY	A-13	BASIN-S4	71.83	6.13	7.50	190001	2.76	6.75	18.3	-13.6
100YR_3DAY	A-14	BASIN-S4	71.83	6.13	7.50	421958	2.04	-0.22	13.8	6.1
100YR_3DAY	A-15	BASIN-S4	71.83	6.13	7.50	13412132	132.74	69.23	855.3	151.1
100YR_3DAY	C-9	BASIN-S4	71.83	3.50	7.50	0	69.07	0.00	149.5	0.0
100YR_3DAY	CA-1	BASIN-S4	71.83	6.05	8.50	23654	69.23	69.10	151.1	169.2
100YR_3DAY	MH-1	BASIN-S4	71.83	6.33	6.00	197	28.20	28.20	9.8	132.3
100YR_3DAY	MH-2	BASIN-S4	71.83	6.41	6.00	243	28.20	28.20	94.4	9.8
100YR_3DAY	MH-3	BASIN-S4	71.83	6.12	6.00	221	9.28	-6.89	-16.0	67.4
100YR_3DAY	PS	BASIN-S4	71.83	5.98	10.67	5417	69.10	69.07	169.2	149.5

SOUTH BROWARD DRAINAGE DISTRICT



BASIN S-5



BASIN S-5

DESCRIPTION

Basin S-5 is located in the southwest quadrant of the District and is the District's largest drainage basin. This basin encompasses a 12.25 square mile area, and is bordered on the north by Pines Boulevard, the east by SW 172nd Avenue, the west by US 27, and the south by the SFWMD C-9 Canal (Miami-Dade County/Broward County line). The water management system for the basin consists of a series of interconnected lakes, culverts and canals. The direction of flow in the basin is from the northwest to the southeast. Discharge from the basin into the SFWMD C-9 Canal is controlled through the S-5 pump station with a permitted discharge rate of 180 cfs.

The Basin S-5 boundaries and existing facilities are shown in Figure II-E-1 and Table II-E-1 provides a summary of the basin characteristics.

The vast majority of Basin S-5 has been developed and the majority of the water management system for the basin is in place and operational. Basin S-5 has differing Control Water Elevations which are controlled through a series of control structures located throughout the basin. Figure II-E-2 depicts the different control water elevations for the basin.

Prior to the 2005 Facilities Report update, SFWMD purchased the southwestern portion of this basin, reserving the land for environmental and conservation purposes. This area includes the southwest quadrant of Section 15, the east half of Sections 22, 27 and 34, and all of Sections 26 and 35 of Township 51 South, Range 39 East.

Basin S-5 may be impacted by the proposed Broward County Water Preserve Area (BCWPA) project, which is a joint project by SFWMD and the US Army Corps of Engineers (COE). This project meets the planning goals set forth in the Comprehensive Everglades Restoration Plan (CERP) and includes the construction of the C-11 and C-9 above-ground impoundment areas; a 4,553-acre seepage management area east of Water Conservation Area 3A; and canal conveyance improvements to the SBDD Canal No. 9. The C-9 Impoundment Area, located within the S-5 Basin is an above ground impoundment area with an effective interior storage of 1,641 acres.

It is SBDD's intention to work with both SFWMD and the COE on the design elements of this project to ensure that there are no adverse impacts to the District.

Since 2013, the following improvements have been completed within the S-5 Basin:

S-5 Pump Station Improvements

- Installed a manually operated sluice gate with electric motor and tie-in to the District's telemetry system.
- Rebuilt one Caterpillar diesel engine.
- Replaced or rebuilt the gear drives for all three engines.
- Upgraded the engine control panels for improved automation and to allow remote operations.

Basin-Wide Improvements

- Installed a manually operated control gate at the basin divide between Basin S-5 and Basin S-9 (Silver Lakes Flood Gate; ID No. 9-84) with an electric motor and tie-in to the District's telemetry system. This gate provides the District more flexibility in operating and managing the overall water management system between the S-9 Basin and the S-5 Basin, especially during extreme rainfall events.
- Modified the concrete weir structure at Encantada (ID No. 5-29) to allow for the improved pre-storm and post-storm drawdown of the sub-basin. Removed two inter-basin weirs at Harbor Lake Estates.
- Installed revetment stabilization at miscellaneous lake interconnects.
- Completed miscellaneous culvert cleanings.

The following new developments have been completed:

- * Calvary Church, Pines Crossing, ALDI at Pines Crossing, Walgreens at Pines Crossing, Discovery School, Valerie Medical Office Building, Manley Storage, and Pembroke Pines Self Storage.

The following infrastructure improvements are proposed for the S-5 Basin:

- Continue to rehabilitate aging infrastructure (i.e.: primary drainage culverts), as needed.
- Install a fire suppression system inside the S-5 pump station.
- Continued hardening of lake banks and headwalls at critical lake interconnect locations.
- Continued installation of boat ramps for improved access by SBDD maintenance crews, as needed.
- Miscellaneous culvert repairs/replacements.

METHODOLOGY

Basin S-5 is comprised of three sub-basins, each with a different control elevation as shown in Figure II-E-2. The three sub-basins are part of a cascading water management system comprised of interconnected lakes, culverts and canals. This series of cascading lake systems allows for the gravity flow of stormwater from the northwest portion of Basin S-5 to the southeast portion of the basin, where the S-5 pump station is located. Water quality requirements and discharge rates from the basin are regulated by SFWMD Permit # 06-01401-S with a permitted discharge rate of 180 cfs. The S-5 pump station shares a pump house with the S-4 pump station, and is located north of the SFWMD C-9 Canal, west of SW 172nd Avenue in the City of Miramar.

Since the last Facilities Report update, there has been a limited amount of new development within the S-5 Basin. Almost all of the water management areas that serve the basin are in place and operational. The AdICPR model for this basin was updated to modify culvert links, drop structures, and weirs, and to adjust the rainfall data.

Figure II-E-1 depicts the existing facilities in Basin S-5 and Table II-E-2 provides the existing culvert schedule for the basin. Figures II-E-3, II-E-4, II-E-5, and II-E-6 show the existing flood gates, control structures, staff gauges, and fish guards within basin S-5, respectively, with corresponding Schedule Tables II-E-3, II-E-4, II-E-5 and II-E-6.

MODEL ANALYSIS

Like Basin S-4, Basin S-5 is comprised primarily of a series of lakes with interconnecting culverts with an ultimate culvert connection to the S-5 pump station. Based on the AdICPR model results, all properties within Basin S-5 meet the District's adopted Level of Service.

Figure II-E-7 shows the overall AdICPR nodal diagram for Basin S-5 and Tables II-E-7 and II-E-8 list the AdICPR output data for maximum stages and 72-hour stages at each node within the basin.

SUMMARY & RECOMMENDATIONS

The AdICPR model analysis performed for Basin S-5 indicates that the required Level of Service is being met in this basin. The results are consistent with the abundance of lake storage area within the basin. The cascading system of lakes effectively utilize the basin's storage, and the 180 cfs (80,000 GPM) S-5 pump station ensures that the SFWMD permitted water quality and quantity requirements for the basin are being attained.

The following recommendations are proposed in order to improve the performance of the water management system in Basin S-5:

- Replace three existing control structures within the Basin S-5 sub-basins with adjustable sluice gates, and tie-ins to SBDD's telemetry system. This will provide the District more flexibility in operating and managing the overall water management system for the S-5 Basin for peak storm events with pre-storm/post-storm drawdowns.
- All undeveloped areas and redevelopment projects shall provide a minimum of 20% water management area, or equivalent.

TABLE II-E-1

**SUMMARY OF BASIN CHARACTERISTICS
BASIN S-5**

GENERAL

TOTAL BASIN AREA	(AC)	7840
TOTAL PERVIOUS AREA	(AC)	1730 (22%)
TOTAL IMPERVIOUS AREA	(AC)	1655 (21%)
WATER MANAGEMENT AREA	(AC)	1810 (23%)
MITIGATION	(AC)	450 (6%)
PRESERVE (SFWMD)	(AC)	2195 (28%)
DESIGN CONTROL ELEVATION		
Sub-Basins No 1 (Figure II-E-2)	(FT NGVD)	4.00
Sub-Basins No 2 (Figure II-E-2)	(FT NGVD)	4.25
Sub-Basins No 3 (Figure II-E-2)	(FT NGVD)	4.50
10-YEAR 3-DAY FLOOD ELEVATION		
Sub-Basins No 1	(FT NGVD)	6.00
Sub-Basins No 2	(FT NGVD)	6.50
Sub-Basins No 3	(FT NGVD)	6.50
(MINIMUM ROAD CROWN)		
100-YEAR 3-DAY FLOOD ELEVATION		
Sub-Basins No 1	(FT NGVD)	7.50
Sub-Basins No 2	(FT NGVD)	8.00
Sub-Basins No 3	(FT NGVD)	8.00
(MINIMUM FINISHED FLOOR ELEVATION)		

Note:

All undeveloped areas are required to have a minimum of 20% water management area and to comply with all SFWMD and SBDD minimum design criteria.

S.F.W.M.D. PERMIT CONDITIONS (PERMIT # 06-01401-S)

DISCHARGE CONTROL STRUCTURE		PUMP STA
DISCHARGE CAPACITY	(CFS)	180
RECEIVING WATER		SFWMD C-9

CANAL

N/A

BASIN S-5



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-5 EXISTING FACILITIES MAP

Legend

- SFWMD Canal
- Culverts
- SBDD Pump Station
- Water Bodies

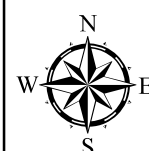


FIGURE II-E-1

TABLE II-E-2

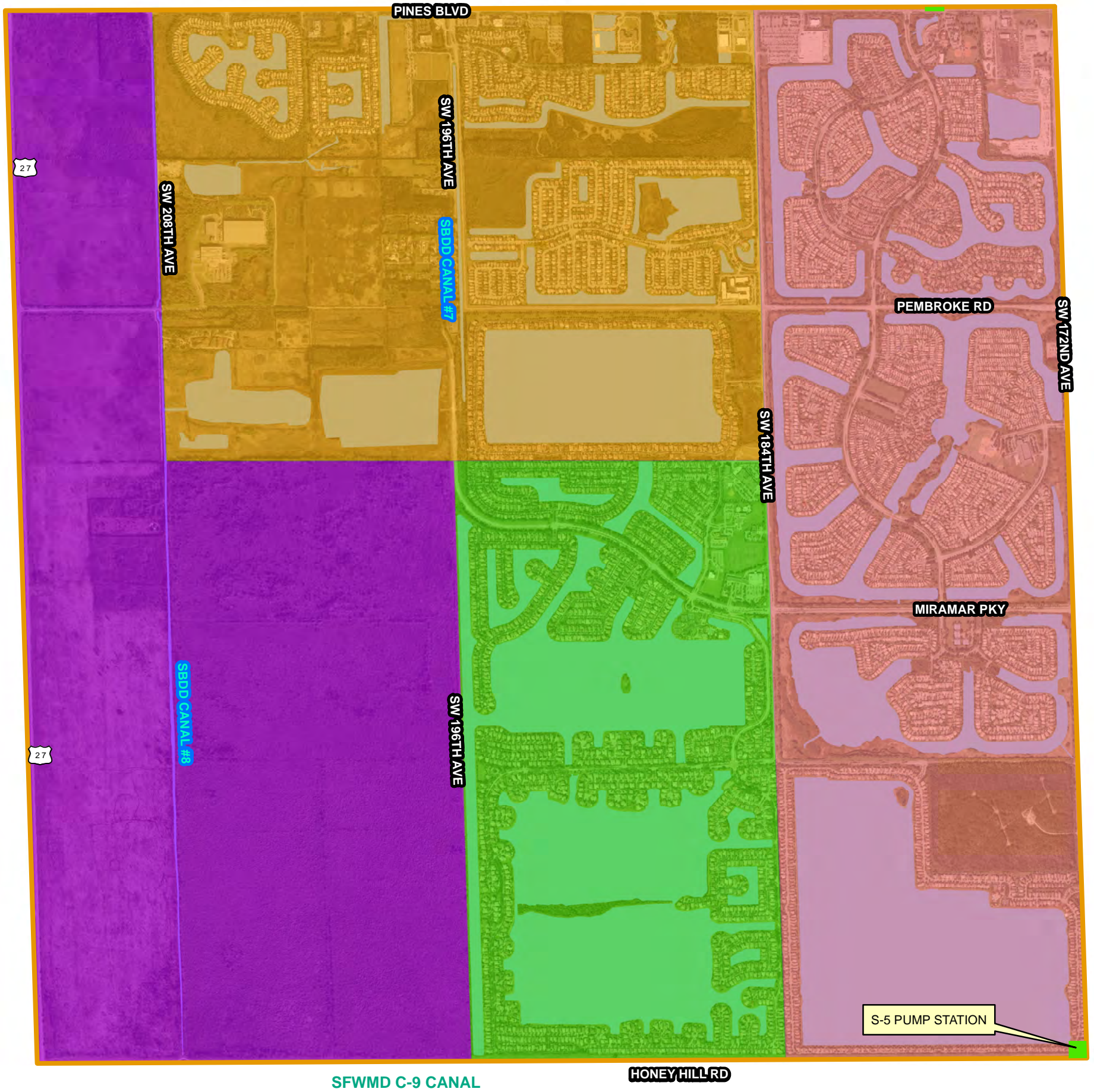
<i>BASIN S-5 EXISTING CULVERT SCHEDULE</i>							
<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
5-1	Silver Lakes - Outfall to Sunset Falls	SW 182nd Ave. & SW 40th St.	72	RCP	CIRC.	308	
5-2	Silver Lakes	SW 180th Ave. & Miramar Pkwy.	72	RCP	CIRC.	196	
5-3	Silver Lakes	SW 180th Ave. & Pembroke Rd.	72	RCP	CIRC.	159	
5-4	Silver Lakes	SW 178th Ave. & SW 13th St.	72	RCP	CIRC.	235	
5-5	Silver Lakes	SW 182nd Ave. & SW 8th St.	72	RCP	CIRC.	207	
5-6	Silver Lakes	SW 178th Ave. & SW 4th St.	48	RCP	CIRC.	201	
5-7	Silver Lakes	SW 178th Ave. & SW 2nd St.	72	RCP	CIRC.	192	
5-8.1	SBDD Canal 8 & C-9 Canal	SBDD Canal 8 & C-9 Canal	48	CMP	CIRC.	40	Control Structure
5-8.2	SBDD Canal 8 & C-9 Canal	SBDD Canal 8 & C-9 Canal	48	CMP	CIRC.	40	Control Structure
5-9.1	S-5 Pump Station	5500 SW 172nd Ave.	36	DIP	CIRC.	118	40K GPM, Pump # 1
5-9.2	S-5 Pump Station	5500 SW 172nd Ave.	36	DIP	CIRC.	118	40K GPM, Pump # 2
5-9.3	S-5 Pump Station	5500 SW 172nd Ave.	36	DIP	CIRC.	118	40K GPM, Pump # 3
5-9.4	S-5 Pump Station	5500 SW 172nd Ave.	48	RCP	CIRC.	118	Flood Gate
5-10	Silver Lakes	SW 173rd Ave. & Miramar Pkwy.	48	RCP	CIRC.	186	
5-11	Sunset Lakes - Outfall	SW 184th Ave. & (S) of Miramar Pkwy.	60	RCP	CIRC.	206	Control Structure
5-12	Sunset Lakes	SW 185th Ave. & SW 30th St.	60	RCP	CIRC.	155	
5-13	Sunset Lakes	SW 192nd Ave. & SW 32nd St.	48	RCP	CIRC.	344	
5-14	Sunset Lakes	SW 190th Ave. & Miramar Pkwy.	48	RCP	CIRC.	273	
5-15	Sunset Lakes	SW 190th Ave. & SW 29th Ct.	48	RCP	CIRC.	321	
5-16	Sunset Lakes	SW 192nd Ave. & SW 40th St.	48	RCP	CIRC.	170	
5-17	Sunset Lakes	SW 186th Ave. & SW 47th Ct.	48 & 38 X 60	RCP	VARIES	321	
5-18	Sunset Lakes	SW 186th Ave. & SW 50th St.	48	RCP	CIRC.	331	
5-22	Encantada	SW 196th Ave. & SW 15th St.	60	RCP	CIRC.	155	
5-23.1	Encantada	SW 193rd Ave. & SW 15th St.	48	RCP	CIRC.	152	
5-23.2	Encantada	SW 193rd Ave. & SW 15th St.	48	RCP	CIRC.	152	
5-24	Encantada	SW 190th Ave. & SW 14th St.	48	RCP	CIRC.	160	
5-25	Encantada	SW 191st Ave. & SW 8th St.	48	RCP	CIRC.	316	
5-26	Encantada	SW 188th Ave. & SW 14th St.	60	RCP & CMP	CIRC.	207	
5-27	Encantada	Encantada - Guard Gate	48	RCP	CIRC.	219	
5-28	Encantada	SW 185th Ave. & SW 13th St.	72	RCP	CIRC.	400	
5-29	Encantada	SW 184th Ave. & SW 14th St.	72	RCP	CIRC.	199	Control Structure
5-30	Estancia	SW 196th Ave. & SW 6th St.	48	RCP	CIRC.	148	

TABLE II-E-2

BASIN S-5 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
5-31	Estancia	SW 195th Ave. & SW 5th St.	48	RCP & CAP	CIRC.	337	
5-32	Estancia	SW 186th Ave. & SW 3rd St.	48	RCP	CIRC.	177	
5-33	Estancia	Estancia - (S) of Guard Gate on SW 186th Ave.	48	RCP	CIRC.	197	
5-34	Estancia	Estancia - (N) of Guard Gate on SW 186th Ave.	48	RCP	CIRC.	85	
5-35	Franklin Academy / Estancia	SW 188th Ave. & SW 3rd St.	48	RCP & CAP	CIRC.	190	
5-37	Alhambra - Outfall	SW 200th Ter. & SW 7th Pl.	48	RCP & CAP	CIRC.	311	
5-41	Walden Lake - Outfall	SW 203rd Ave. & SW 5th St.	48 & 60	RCP	CIRC.	693	
5-42	Walden Lake	SW 205th Ave. & SW 2nd St.	15	CAP	CIRC.	30	Control Structure
5-43	Walden Lake	SW 204th Ave. & SW 2nd St.	15	CAP	CIRC.	30	Control Structure
5-45	Reuter Recycling Plant	SW 208th Ave. & SW 9th St. @ C-8	48	RCP	CIRC.	558	
5-46	208th Ave. & Pembroke Rd.	SW 208th Ave. & Pembroke Rd.	72	CMP	CIRC.	72	
5-48	Sunset Falls / S-5 Pump Station	S-5 Pump Station Inflow	96	RCP	CIRC.	170	
5-49	Harbour Lake Estates / Silver Lakes	SW 184th Ave. & SW 21st St.	60	RCP	CIRC.	1013	Control Structure
5-50	Harbour Lake Estates / Encantada	SW 192nd Ave. & SW 17th Ct.	48	RCP	CIRC.	465	
5-51	Harbour Lake Estates / Capaletti Lakes	SW 195th Ave. & SW 22nd St.	60	RCP	CIRC.	770	
5-52	Capaletti / Zwerner Lakes - Land Weir	Capaletti / Zwerner Lakes - Land Weir	LAND WEIR				Control Structure
5-53	Sunset Lakes	SW 186th Ave. & Miramar Pkwy.	48	RCP	CIRC.	290	
5-54	Sunset Falls / Tuscan Isles	17654 SW 47th St.	48	RCP & CAP	CIRC.	740	
5-55	COPP Soccer Park	350 SW 196th Ave.	48	RCP	CIRC.	101	Control Structure
5-56	Silver Lakes	SW 178th Ave. & (S) of SW 28th St.	BRIDGE			0	
5-57	Silver Lakes - Island Park (N)	(E) of SW 178th Ave. & (S) of SW 28th St.	BRIDGE			0	
5-58	Silver Lakes - Island Park (S)	(E) of SW 178th Ave. & (S) of SW 28th St.	BRIDGE			0	
5-59	S-4 / S-5 Pump Station - Inflow Bays	5500 SW 172nd Ave.	60 X 36		RECT.	2	Flood Gate
5-60	SFWMDC-9 Impoundment Area	C-9 Canal & SW 202nd Ave.	48	CMP	CIRC.	78	Control Structure
5-61	Aldi / CubeSmart Self Storage	18430 SW Pines Blvd.	48	RCP	CIRC.	42	
5-62	Estancia - Commercial Outfall	SW 186th Ave. & SW 3rd St.	18 & 30 & 36	RCP	CIRC.	1474	

BASIN S-5



Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™

SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-5 CONTROL WATER ELEVATION MAP

2019 UPDATE

Legend

- 4.00' NGVD
- 4.25' NGVD
- 4.50' NGVD
- SFWMD
- Water Bodies

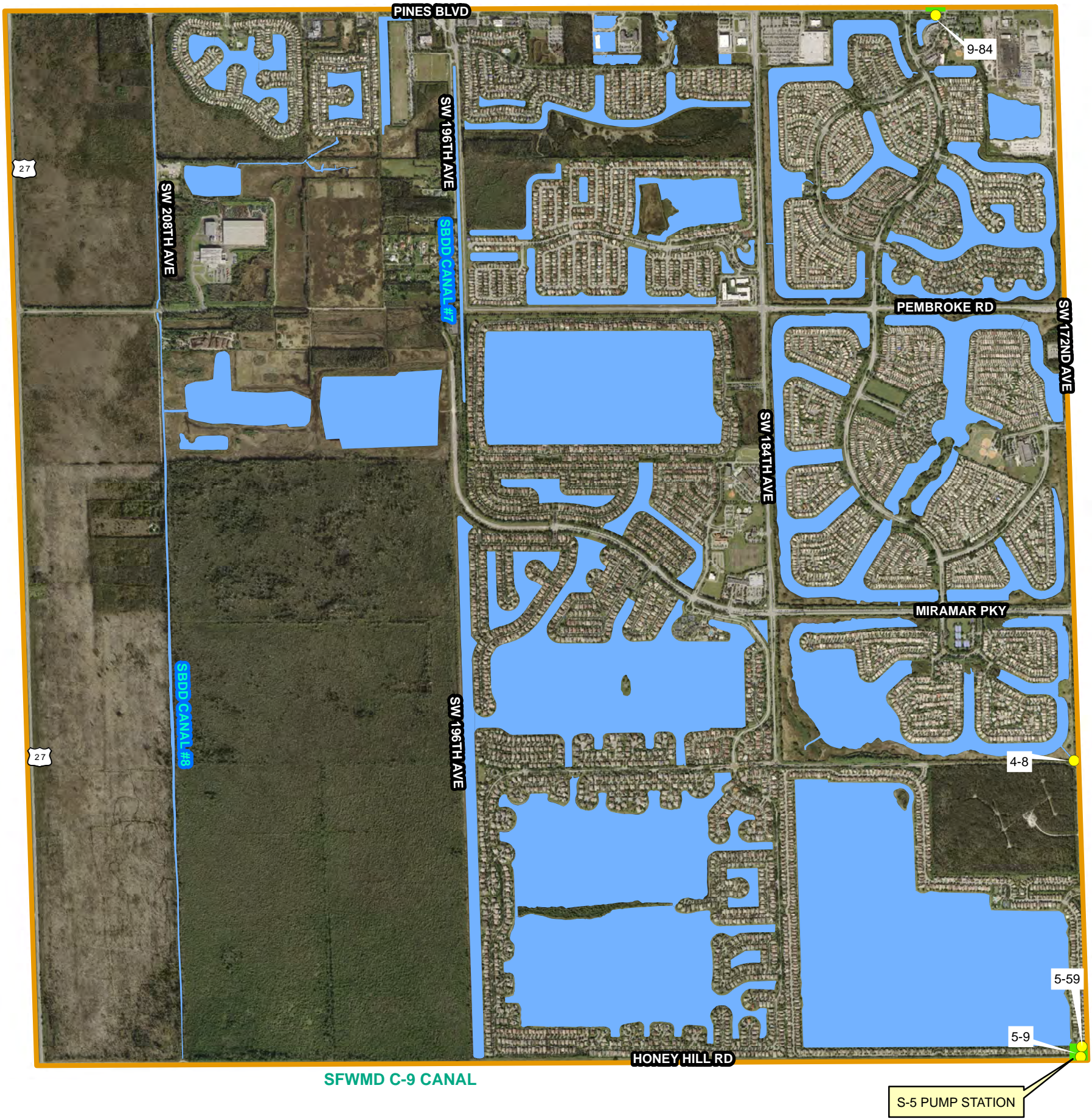


0 1,000 2,000 4,000 6,000 Feet



FIGURE II-E-2

BASIN S-5



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-5 FLOOD GATE MAP

Legend

- Flood Gate
- ~ SFWMD Canal
- SBDD Pump Station
- Water Bodies

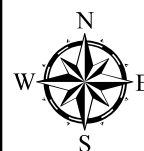


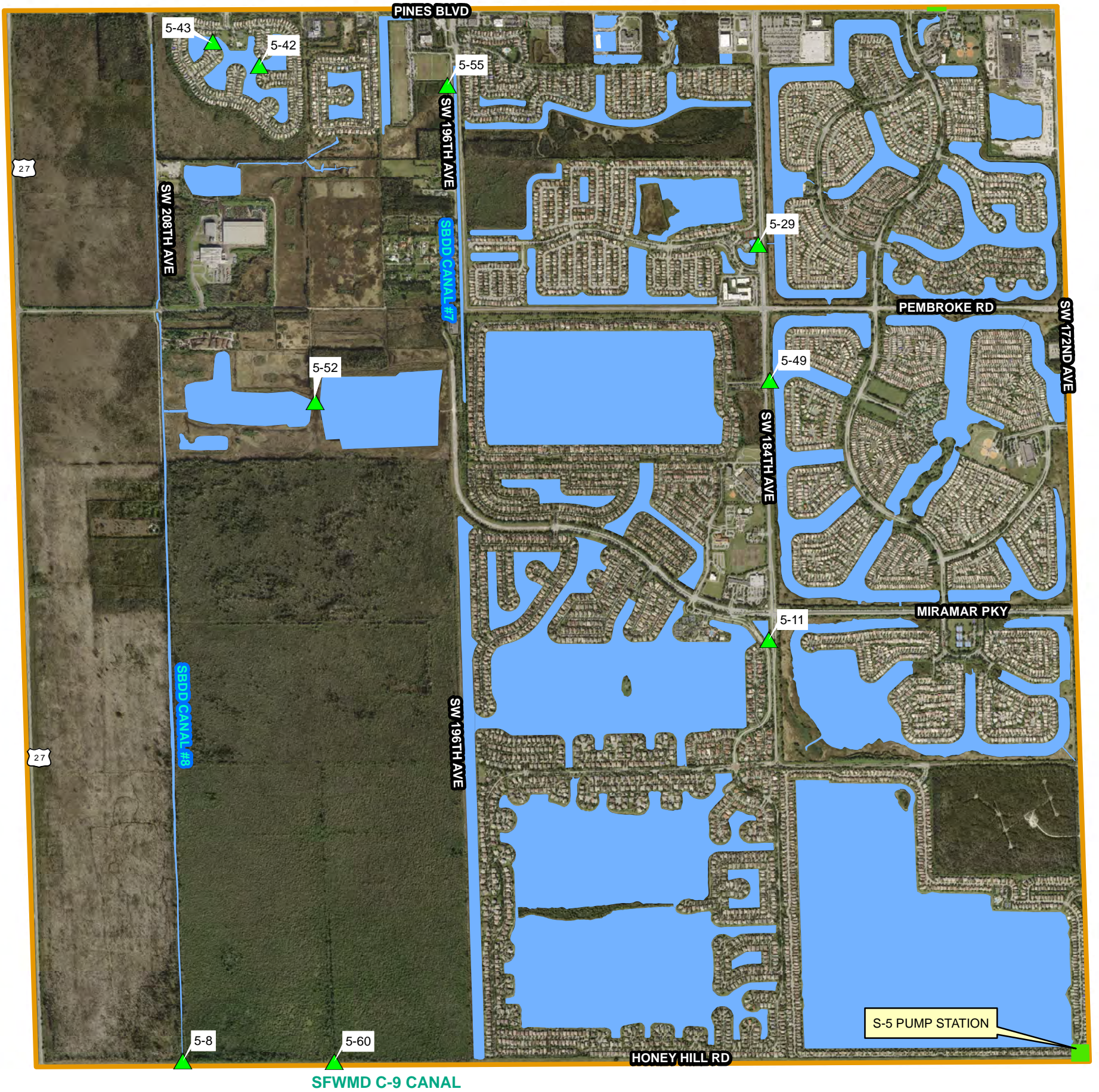
FIGURE II-E-3

TABLE II-E-3

BASIN S-5 FLOOD GATE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
5-9.4	SBDD S-5 Pump Station	5500 SW 172nd Ave.	54" W X 54" H
5-59	SBDD S-4 & S-5 Pump Station	5500 SW 172nd Ave.	60" W X 36" H

BASIN S-5



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-5 CONTROL STRUCTURES MAP

Legend

- ▲ Control Structures
- ~ SFWMD Canal
- SBDD Pump Station
- Water Bodies



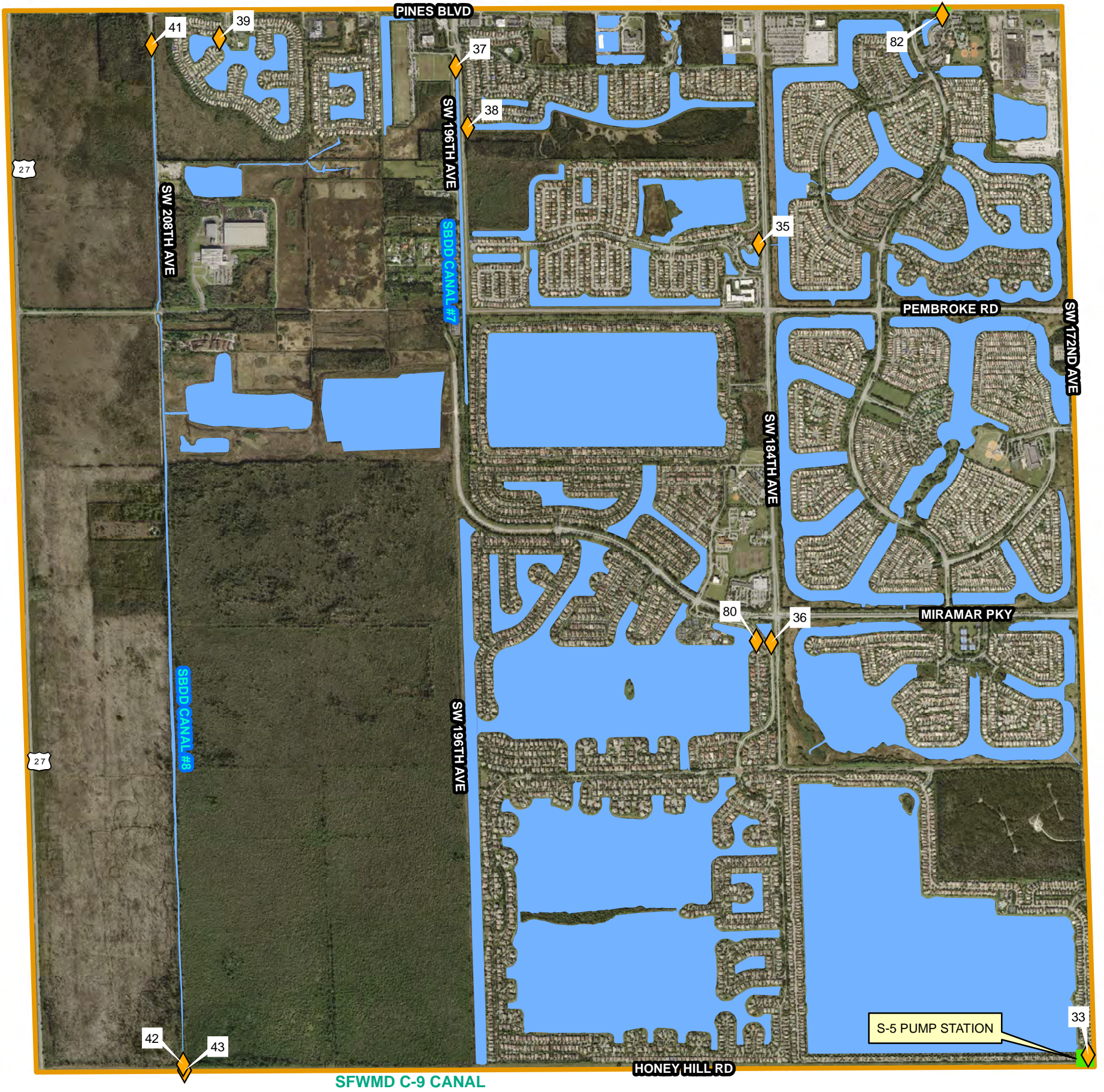
FIGURE II-E-4

TABLE II-E-4

BASIN S-5 CONTROL STRUCTURE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>General Comments</i>
5-8.1	SBDD Canal 8	South End of Canal 8 & SFWMD C-9	
5-8.2	SBDD Canal 8	South End of Canal 8 & SFWMD C-9	
5-11	Sunset Lakes	SW 184th Ave. & (S) of Miramar Pkwy.	Flashboard Riser
5-29	Encantada	SW 184th Ave & (N) of SW 14th St.	Weir w/ V-Notch Bleeder @ 4.25 NGVD
5-42	Walden Lake	Behind 192 SW 204th Ave.	Flashboard Riser
5-43	Walden Lake	Behind 20512 SW 1st St.	Flashboard Riser
5-49	Harbour Lake Estates / Silver Lakes	SW 184th Ave & SW 21st St.	Aluminum Weir w/ 21" x 26" Notch @ 4.42 NGVD
5-52	Capaletti / Zwerner Lakes - Land Weir	Capaletti / Zwerner Lakes - Land Weir	Ground Weir
5-55	COPP Soccer Park	350 SW 196th Ave.	Over-Flow Structure
5-60	SFWMD C-9 Impoundment Area	C-9 Canal & SW 202nd Ave.	Flashboard Riser

BASIN S-5



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-5 STAFF GAUGE MAP

Legend

- Staff Gauge
- SFWMD Canal
- SBDD Pump Station
- Water Bodies



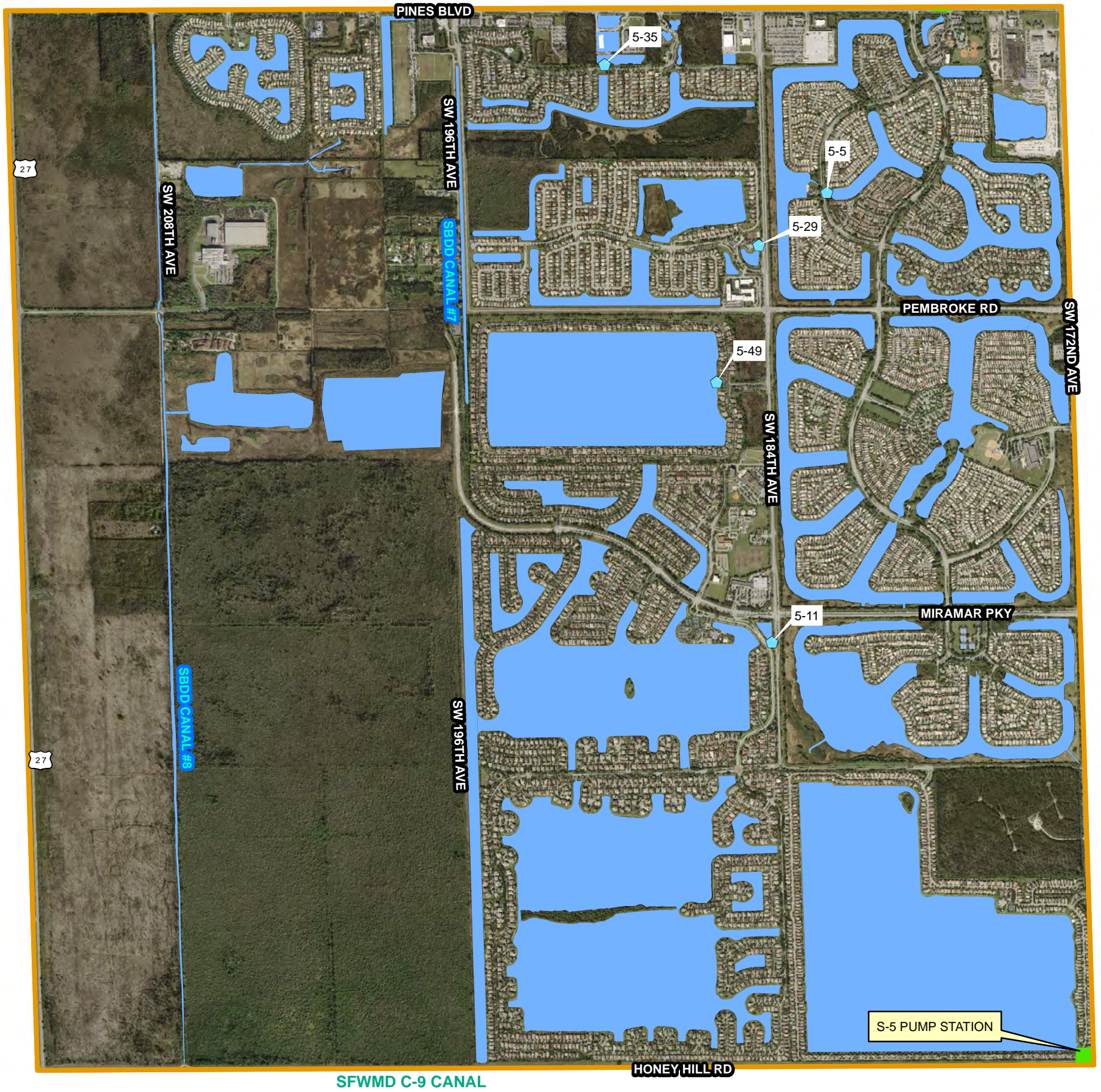
FIGURE II-E-5

TABLE II-E-5

BASIN S-5 STAFF GAUGE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
33	S-5 Pump Station Upstream	5500 SW 172nd Ave.	Telemetry
34	S-4 / S-5 Pump Station Downstream	(S) of 5500 SW 172nd Ave.	Telemetry
35	Encantada	SW 184th Ave. & (N) of SW 14th St. by Weir	
36	Sunset Lakes	SW 184th Ave. & (S) of Miramar Pkwy. by Weir	
37	SBDD Canal 7	SW 196th Ave. & (S) of Pines Blvd.	Water Level Recorder
38	Estancia	SW 196th Ave. & (S) of Pines Blvd. by Weir	
39	Walden Lake	SW 204th Ave. & SW 2nd St.	
41	SBDD Canal 8	SW 208th Ave. & (S) of Pines Blvd.	
42	SFWMD C-9 Impoundment Area	SBDD Canal 8 (N) of Weir	
43	SFWMD C-9 Impoundment Area	SBDD Canal 8 (S) of Weir	
80	Sunset Lakes	Sunrise Ave. & (S) of Miramar Pkwy.	Water Level Recorder
82	Silver Lakes Flood Gate	(E) of NW 178th Ave. & Pines Blvd.	Telemetry

BASIN S-5



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-5 FISH GUARD MAP

Legend

- ◆ Fish Guards
- ~ SFWMD Canal
- SBDD Pump Station
- Water Bodies

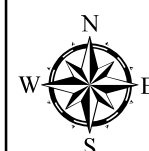
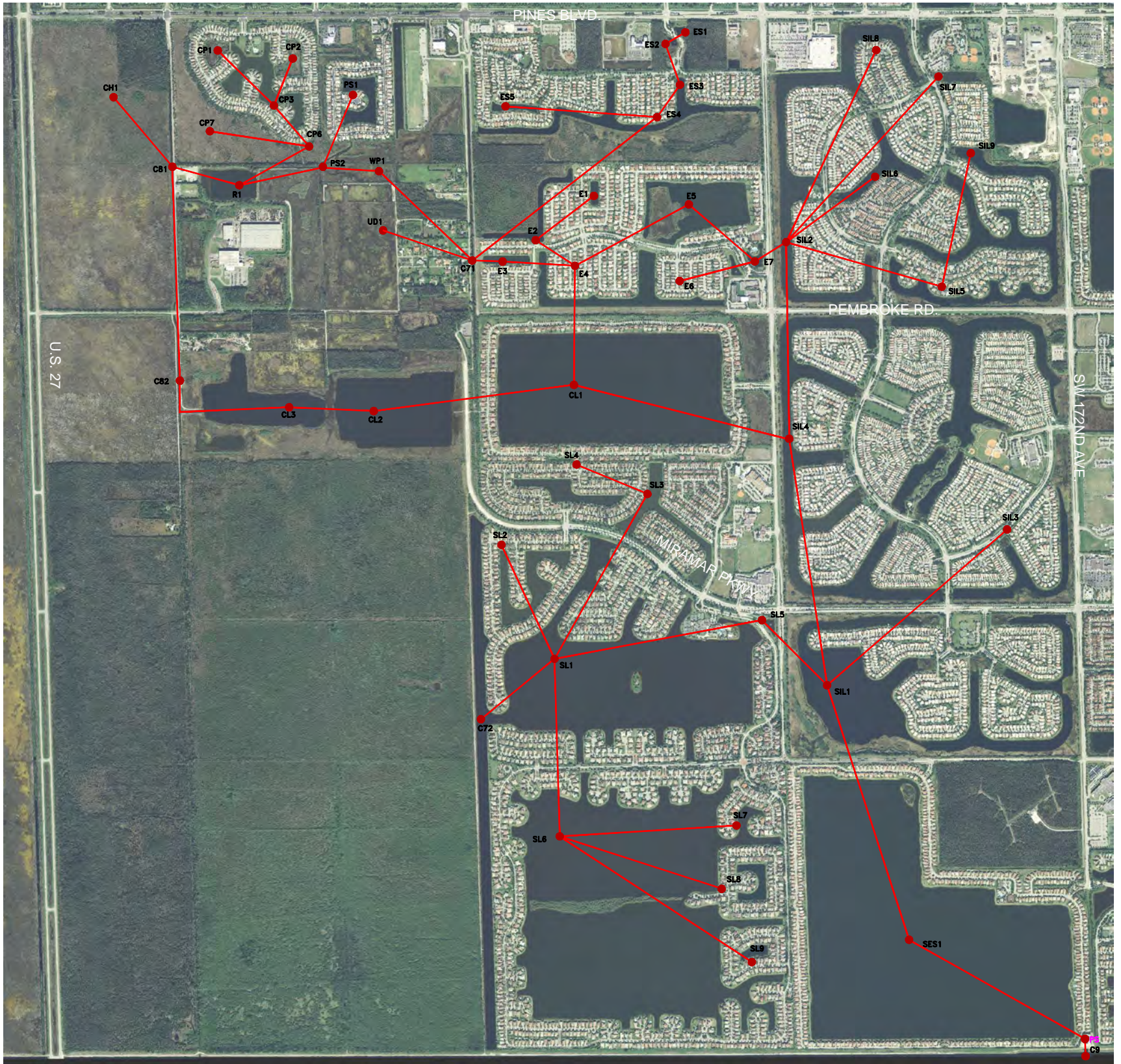


FIGURE II-E-6

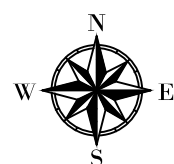
TABLE II-E-6

BASIN S-5 FISH GUARD SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>
5-5	Silver Lakes	SW 182nd Ave. & SW 9th St.
5-11	Sunset Lakes	SW 184th Ave. & (S) of Miramar Pkwy.
5-29	Encantada	SW 184th Ave. & (N) of SW 14th St.
5-35	Franklin Academy	SW 188th Ave & SW 3rd St
5-49	Harbor Lakes	SW 185th Ave. & SW 21st St.



BASIN 5 NODAL DIAGRAM



SCALE = N.T.S.

FIGURE II-E-7

TABLE II-E-7

BASIN S-5

BASIN MAXIMUM STAGE REPORT

10-YEAR, 3-DAY STORM

25-YEAR, 3-DAY STORM

100-YEAR, 3-DAY STORM

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-5 MAX STAGE REPORT
 TABLE II-E-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
C71	BASIN-S5	100YR_3DAY	77.90	6.60	8.00	0.0000	304971	77.72	19.01	79.18	18.93
C71	BASIN-S5	10YR_3DAY	74.83	5.90	8.00	0.0000	304971	74.73	17.79	76.42	17.97
C71	BASIN-S5	25YR_3DAY	76.12	6.19	8.00	0.0000	304971	76.16	18.25	77.60	18.27
C72	BASIN-S5	100YR_3DAY	73.11	6.33	8.00	0.0987	30696	0.00	0.00	73.12	3109.67
C72	BASIN-S5	10YR_3DAY	72.61	5.68	8.00	0.0987	30566	0.00	0.00	72.63	2584.76
C72	BASIN-S5	25YR_3DAY	72.78	5.95	8.00	0.0987	30620	0.00	0.00	72.79	2793.83
C81	BASIN-S5	100YR_3DAY	72.34	6.68	8.00	0.0000	294112	60.72	66.01	63.24	52.07
C81	BASIN-S5	10YR_3DAY	107.54	5.89	8.00	0.0000	294112	60.05	66.55	62.38	44.75
C81	BASIN-S5	25YR_3DAY	72.15	6.22	8.00	0.0000	294112	60.01	66.50	62.81	47.73
C82	BASIN-S5	100YR_3DAY	72.79	6.67	8.00	0.0000	140031	63.24	52.07	63.59	48.89
C82	BASIN-S5	10YR_3DAY	108.76	5.88	8.00	0.0000	139638	62.38	44.75	62.79	41.07
C82	BASIN-S5	25YR_3DAY	72.16	6.22	8.00	0.0000	139805	62.81	47.73	63.17	44.38
C9	BASIN-S5	100YR_3DAY	0.00	3.00	8.00	0.0000	0	46.38	178.00	0.00	0.00
C9	BASIN-S5	10YR_3DAY	0.00	3.00	8.00	0.0000	0	57.23	178.00	0.00	0.00
C9	BASIN-S5	25YR_3DAY	0.00	3.00	8.00	0.0000	0	59.96	178.00	0.00	0.00
CH1	BASIN-S5	100YR_3DAY	62.78	8.30	8.00	0.0001	1084292	60.00	451.68	61.91	93.70
CH1	BASIN-S5	10YR_3DAY	62.11	7.01	8.00	0.0001	777545	60.00	281.58	61.42	79.53
CH1	BASIN-S5	25YR_3DAY	62.41	7.55	8.00	0.0001	905922	60.00	349.36	61.63	85.65
CL1	BASIN-S5	100YR_3DAY	105.20	6.52	8.00	0.0000	9953428	60.00	1589.44	120.00	10.36
CL1	BASIN-S5	10YR_3DAY	106.69	5.80	8.00	0.0000	8881062	60.00	1037.11	120.00	7.24
CL1	BASIN-S5	25YR_3DAY	106.35	6.10	8.00	0.0000	9328635	60.00	1258.52	120.00	8.59
CL2	BASIN-S5	100YR_3DAY	72.82	6.67	8.00	0.0000	4400577	60.00	591.21	64.82	31.80
CL2	BASIN-S5	10YR_3DAY	108.82	5.88	8.00	0.0000	3455300	60.00	387.79	65.41	24.90
CL2	BASIN-S5	25YR_3DAY	72.16	6.22	8.00	0.0000	3862974	60.00	471.11	65.15	28.49
CL3	BASIN-S5	100YR_3DAY	72.79	6.67	8.00	0.0000	3395757	60.00	398.98	60.72	56.22
CL3	BASIN-S5	10YR_3DAY	108.76	5.88	8.00	0.0000	2470695	60.00	267.06	60.72	47.96
CL3	BASIN-S5	25YR_3DAY	72.16	6.22	8.00	0.0000	2869583	60.00	319.46	60.69	52.24
CP1	BASIN-S5	100YR_3DAY	101.81	6.75	8.00	0.0001	176437	60.00	35.15	63.75	1.10
CP1	BASIN-S5	10YR_3DAY	100.67	5.97	8.00	0.0000	157784	60.00	22.27	60.08	1.00
CP1	BASIN-S5	25YR_3DAY	99.25	6.30	8.00	0.0000	165899	60.00	27.41	60.06	0.90
CP2	BASIN-S5	100YR_3DAY	101.81	6.75	8.00	0.0001	237573	60.00	47.28	65.59	1.11
CP2	BASIN-S5	10YR_3DAY	103.00	5.96	8.00	0.0000	212438	60.00	29.96	60.09	1.05
CP2	BASIN-S5	25YR_3DAY	99.25	6.30	8.00	0.0000	223494	60.00	36.87	60.06	0.92
CP3	BASIN-S5	100YR_3DAY	101.81	6.75	8.00	0.0000	1755698	60.00	199.45	62.05	24.61
CP3	BASIN-S5	10YR_3DAY	96.99	5.98	8.00	0.0000	1247722	60.00	122.25	61.66	18.24
CP3	BASIN-S5	25YR_3DAY	99.23	6.30	8.00	0.0000	1464238	60.00	152.82	61.90	21.32
CP6	BASIN-S5	100YR_3DAY	95.36	6.76	8.00	0.0027	183	60.80	15.30	60.80	15.29
CP6	BASIN-S5	10YR_3DAY	94.29	5.99	8.00	0.0027	183	61.66	19.34	61.66	19.33
CP6	BASIN-S5	25YR_3DAY	94.66	6.31	8.00	-0.0023	183	61.04	21.55	61.04	21.54
CP7	BASIN-S5	100YR_3DAY	102.17	6.75	8.00	0.0000	3035566	60.00	534.89	108.45	4.18
CP7	BASIN-S5	10YR_3DAY	101.66	5.96	8.00	0.0000	2995702	60.00	353.97	108.49	3.31

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-5 MAX STAGE REPORT
 TABLE II-E-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
CP7	BASIN-S5	25YR_3DAY	101.22	6.30	8.00	0.0000	3012932	60.00	426.32	108.38	3.86
E1	BASIN-S5	100YR_3DAY	72.27	6.57	8.00	0.0001	267636	60.08	92.99	60.56	33.21
E1	BASIN-S5	10YR_3DAY	72.24	5.86	8.00	0.0001	182569	60.08	58.51	60.44	27.50
E1	BASIN-S5	25YR_3DAY	72.25	6.16	8.00	0.0001	216193	60.08	72.36	60.47	30.55
E2	BASIN-S5	100YR_3DAY	72.38	6.57	8.00	0.0001	2091107	60.00	449.48	67.23	2.31
E2	BASIN-S5	10YR_3DAY	72.32	5.86	8.00	0.0000	2010997	60.00	299.18	66.15	2.14
E2	BASIN-S5	25YR_3DAY	72.36	6.16	8.00	0.0000	2042696	60.00	360.34	66.68	1.99
E3	BASIN-S5	100YR_3DAY	72.63	6.58	8.00	0.0001	604060	60.50	78.73	60.84	36.97
E3	BASIN-S5	10YR_3DAY	72.53	5.88	8.00	0.0001	403748	60.50	42.84	60.70	26.26
E3	BASIN-S5	25YR_3DAY	72.58	6.17	8.00	0.0001	481934	60.50	56.43	60.76	31.26
E4	BASIN-S5	100YR_3DAY	72.63	6.56	8.00	0.0001	1745079	59.92	525.29	60.06	77.20
E4	BASIN-S5	10YR_3DAY	72.44	5.86	8.00	0.0001	1397099	59.92	338.60	60.06	62.42
E4	BASIN-S5	25YR_3DAY	72.55	6.16	8.00	0.0001	1536737	59.92	412.24	60.06	69.56
E5	BASIN-S5	100YR_3DAY	72.49	6.56	8.00	0.0001	2000213	60.00	376.15	120.00	22.86
E5	BASIN-S5	10YR_3DAY	72.40	5.86	8.00	0.0000	1717557	60.00	254.45	120.00	18.34
E5	BASIN-S5	25YR_3DAY	72.44	6.15	8.00	0.0001	1829717	60.00	303.76	120.00	20.82
E6	BASIN-S5	100YR_3DAY	72.31	6.56	8.00	0.0001	166034	60.00	55.97	60.32	24.72
E6	BASIN-S5	10YR_3DAY	72.27	5.86	8.00	0.0001	116501	60.00	35.28	60.27	19.33
E6	BASIN-S5	25YR_3DAY	72.29	6.15	8.00	0.0001	136245	60.00	43.59	60.29	21.92
E7	BASIN-S5	100YR_3DAY	72.35	6.56	8.00	0.0001	180619	60.00	53.23	120.00	23.18
E7	BASIN-S5	10YR_3DAY	72.29	5.86	8.00	0.0000	147105	60.00	34.36	120.00	18.54
E7	BASIN-S5	25YR_3DAY	72.32	6.15	8.00	0.0001	160479	60.00	41.94	120.00	21.08
ES1	BASIN-S5	100YR_3DAY	61.20	6.99	8.00	0.0001	137205	60.00	57.90	59.94	15.55
ES1	BASIN-S5	10YR_3DAY	60.86	6.29	8.00	0.0001	75551	60.00	38.06	60.01	11.43
ES1	BASIN-S5	25YR_3DAY	60.99	6.61	8.00	0.0001	95745	60.00	46.01	60.00	13.16
ES2	BASIN-S5	100YR_3DAY	61.18	6.98	8.00	0.0001	79264	60.00	34.98	61.88	15.92
ES2	BASIN-S5	10YR_3DAY	60.85	6.28	8.00	0.0001	50747	60.00	24.22	61.38	14.97
ES2	BASIN-S5	25YR_3DAY	60.97	6.60	8.00	0.0001	59809	60.00	28.65	61.60	16.03
ES3	BASIN-S5	100YR_3DAY	61.10	6.93	8.00	0.0001	365498	60.08	152.84	60.49	59.60
ES3	BASIN-S5	10YR_3DAY	60.80	6.23	8.00	0.0001	177749	60.08	101.19	60.48	54.42
ES3	BASIN-S5	25YR_3DAY	60.90	6.55	8.00	0.0001	229269	60.08	122.02	60.52	57.85
ES4	BASIN-S5	100YR_3DAY	72.28	6.73	8.00	0.0000	6025792	60.00	984.11	65.59	29.03
ES4	BASIN-S5	10YR_3DAY	72.11	5.99	8.00	0.0000	5090408	60.00	658.53	64.75	26.29
ES4	BASIN-S5	25YR_3DAY	72.16	6.30	8.00	0.0000	5445585	60.00	790.22	65.12	27.59
ES5	BASIN-S5	100YR_3DAY	72.23	6.74	8.00	0.0001	821929	60.08	201.30	60.64	37.37
ES5	BASIN-S5	10YR_3DAY	61.43	5.99	8.00	0.0001	479725	60.08	121.10	60.57	35.15
ES5	BASIN-S5	25YR_3DAY	72.16	6.30	8.00	0.0001	614341	60.08	153.01	60.60	36.72
PS	BASIN-S5	100YR_3DAY	72.04	5.25	8.00	-0.0079	3475	60.00	178.62	46.38	178.00
PS	BASIN-S5	10YR_3DAY	65.32	4.67	8.00	-0.0079	3475	60.53	178.14	57.23	178.00
PS	BASIN-S5	25YR_3DAY	68.27	4.90	8.00	-0.0064	3475	60.00	178.48	59.96	178.00

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-5 MAX STAGE REPORT
 TABLE II-E-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
PS1	BASIN-S5	100YR_3DAY	94.72	6.83	8.00	0.0001	1137257	60.00	190.67	61.24	37.55
PS1	BASIN-S5	10YR_3DAY	93.36	6.03	8.00	0.0001	761008	60.00	116.40	60.98	30.56
PS1	BASIN-S5	25YR_3DAY	93.88	6.37	8.00	0.0001	912919	60.00	145.90	61.07	34.14
PS2	BASIN-S5	100YR_3DAY	92.84	6.86	8.00	0.0000	1068642	60.00	220.10	60.00	51.04
PS2	BASIN-S5	10YR_3DAY	92.72	6.04	8.00	0.0000	988659	60.00	148.44	60.00	27.66
PS2	BASIN-S5	25YR_3DAY	92.71	6.38	8.00	0.0000	1022019	60.00	177.75	60.00	37.55
R1	BASIN-S5	100YR_3DAY	92.84	6.86	8.00	0.0000	3784624	60.00	481.96	92.55	25.96
R1	BASIN-S5	10YR_3DAY	92.72	6.04	8.00	0.0000	3033842	60.00	306.23	92.31	21.55
R1	BASIN-S5	25YR_3DAY	92.71	6.38	8.00	0.0000	3268022	60.00	370.24	92.38	23.60
SES1	BASIN-S5	100YR_3DAY	72.04	5.60	7.50	0.0000	16861949	60.00	2931.45	60.00	178.62
SES1	BASIN-S5	10YR_3DAY	65.31	5.03	7.50	0.0000	15498221	60.00	1898.93	60.53	178.14
SES1	BASIN-S5	25YR_3DAY	68.27	5.26	7.50	0.0000	15819958	60.00	2312.28	60.00	178.48
SIL1	BASIN-S5	100YR_3DAY	72.61	6.15	7.50	0.0000	9328164	60.00	1610.42	120.00	129.91
SIL1	BASIN-S5	10YR_3DAY	72.12	5.50	7.50	0.0000	8073173	60.00	1065.87	88.03	111.85
SIL1	BASIN-S5	25YR_3DAY	72.23	5.78	7.50	0.0000	8638170	60.00	1285.84	105.19	121.77
SIL2	BASIN-S5	100YR_3DAY	72.48	6.48	7.50	0.0001	6484448	60.00	1156.02	60.62	54.40
SIL2	BASIN-S5	10YR_3DAY	72.23	5.77	7.50	0.0000	5279575	60.00	768.67	106.09	45.27
SIL2	BASIN-S5	25YR_3DAY	72.33	6.07	7.50	0.0001	5824355	60.00	924.93	120.00	49.36
SIL3	BASIN-S5	100YR_3DAY	72.43	6.16	7.50	0.0001	2390550	60.00	456.64	60.96	25.21
SIL3	BASIN-S5	10YR_3DAY	72.13	5.51	7.50	0.0000	1927175	60.00	296.64	60.86	22.68
SIL3	BASIN-S5	25YR_3DAY	72.24	5.78	7.50	0.0001	2134700	60.00	360.74	60.90	23.88
SIL4	BASIN-S5	100YR_3DAY	72.69	6.40	7.50	0.0000	13527554	60.00	1841.98	120.00	84.93
SIL4	BASIN-S5	10YR_3DAY	72.21	5.70	7.50	0.0000	10377141	60.00	1197.86	63.20	74.29
SIL4	BASIN-S5	25YR_3DAY	72.43	6.00	7.50	0.0000	12020499	60.00	1453.73	116.56	80.88
SIL5	BASIN-S5	100YR_3DAY	72.57	6.49	7.50	0.0001	5592976	60.00	834.32	76.35	15.51
SIL5	BASIN-S5	10YR_3DAY	72.28	5.78	7.50	0.0000	4463419	60.00	523.92	76.30	14.55
SIL5	BASIN-S5	25YR_3DAY	72.41	6.08	7.50	0.0000	5052516	60.00	645.03	76.16	15.12
SIL6	BASIN-S5	100YR_3DAY	72.46	6.49	7.50	0.0001	1794201	60.00	278.16	61.09	53.44
SIL6	BASIN-S5	10YR_3DAY	72.25	5.77	7.50	0.0001	1205984	60.00	177.33	60.90	54.21
SIL6	BASIN-S5	25YR_3DAY	72.34	6.08	7.50	0.0001	1484167	60.00	217.76	60.93	55.20
SIL7	BASIN-S5	100YR_3DAY	72.28	6.48	7.50	0.0001	498028	60.00	148.86	60.31	35.32
SIL7	BASIN-S5	10YR_3DAY	72.16	5.77	7.50	0.0001	323791	60.00	96.35	60.28	31.95
SIL7	BASIN-S5	25YR_3DAY	72.20	6.08	7.50	0.0001	394496	60.00	117.41	60.30	33.87
SIL8	BASIN-S5	100YR_3DAY	72.47	6.48	7.50	0.0001	389618	60.00	109.65	60.20	49.05
SIL8	BASIN-S5	10YR_3DAY	72.22	5.77	7.50	0.0001	257687	60.00	72.23	60.17	37.51
SIL8	BASIN-S5	25YR_3DAY	72.31	6.07	7.50	0.0001	304716	60.00	87.23	60.18	42.67
SIL9	BASIN-S5	100YR_3DAY	72.59	6.49	7.50	0.0001	1781563	60.00	290.07	61.28	7.04
SIL9	BASIN-S5	10YR_3DAY	72.25	5.78	7.50	0.0000	1435649	60.00	192.30	72.00	3.65
SIL9	BASIN-S5	25YR_3DAY	72.39	6.08	7.50	0.0000	1559959	60.00	231.44	71.35	3.94
SL1	BASIN-S5	100YR_3DAY	73.11	6.33	8.00	-0.0003	12831814	60.00	4543.13	120.00	19.89
SL1	BASIN-S5	10YR_3DAY	72.61	5.68	8.00	-0.0003	11493204	60.00	3549.90	120.00	13.30

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-5 MAX STAGE REPORT
 TABLE II-E-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
SL1	BASIN-S5	25YR_3DAY	72.78	5.95	8.00	-0.0003	12047372	60.00	3943.40	120.00	16.48
SL2	BASIN-S5	100YR_3DAY	72.78	6.33	8.00	0.0000	1157997	60.00	156.86	61.80	26.61
SL2	BASIN-S5	10YR_3DAY	72.45	5.68	8.00	0.0000	823083	60.00	96.55	61.56	21.89
SL2	BASIN-S5	25YR_3DAY	72.58	5.95	8.00	0.0000	961877	60.00	120.51	61.64	24.50
SL3	BASIN-S5	100YR_3DAY	64.42	6.37	8.00	0.0001	2456757	60.00	371.72	61.75	67.94
SL3	BASIN-S5	10YR_3DAY	63.58	5.70	8.00	0.0000	1634118	60.00	224.48	61.51	58.75
SL3	BASIN-S5	25YR_3DAY	64.11	5.98	8.00	0.0000	1979972	60.00	282.58	61.60	63.78
SL4	BASIN-S5	100YR_3DAY	64.51	6.45	8.00	0.0001	1155176	60.00	151.14	64.85	16.08
SL4	BASIN-S5	10YR_3DAY	63.62	5.77	8.00	0.0000	837730	60.00	93.55	63.63	14.68
SL4	BASIN-S5	25YR_3DAY	64.07	6.06	8.00	0.0000	972322	60.00	116.44	64.03	15.53
SL5	BASIN-S5	100YR_3DAY	73.14	6.31	8.00	0.0000	194430	60.00	41.69	120.00	20.03
SL5	BASIN-S5	10YR_3DAY	72.62	5.67	8.00	0.0000	187441	60.00	27.73	120.00	13.39
SL5	BASIN-S5	25YR_3DAY	72.80	5.94	8.00	0.0000	190338	60.00	33.38	120.00	16.59
SL6	BASIN-S5	100YR_3DAY	83.60	6.28	8.00	0.0000	17945079	60.00	2925.06	120.00	9.69
SL6	BASIN-S5	10YR_3DAY	79.03	5.66	8.00	0.0000	16251423	60.00	1910.57	120.00	7.03
SL6	BASIN-S5	25YR_3DAY	81.15	5.91	8.00	0.0000	16948086	60.00	2316.27	120.00	8.42
SL7	BASIN-S5	100YR_3DAY	83.60	6.28	8.00	0.0001	448253	60.00	92.19	60.76	27.44
SL7	BASIN-S5	10YR_3DAY	79.03	5.66	8.00	0.0000	305612	60.00	54.64	60.64	21.30
SL7	BASIN-S5	25YR_3DAY	81.14	5.91	8.00	0.0001	364286	60.00	69.54	60.68	24.70
SL8	BASIN-S5	100YR_3DAY	83.60	6.28	8.00	0.0001	467783	60.00	70.95	60.25	15.04
SL8	BASIN-S5	10YR_3DAY	79.03	5.66	8.00	0.0000	295904	60.00	42.12	60.23	12.25
SL8	BASIN-S5	25YR_3DAY	81.14	5.91	8.00	0.0000	366604	60.00	53.59	60.24	14.07
UD1	BASIN-S5	100YR_3DAY	77.90	6.60	8.00	0.0000	4959362	60.00	693.68	94.71	4.72
UD1	BASIN-S5	10YR_3DAY	74.88	5.90	8.00	0.0000	4506502	60.00	449.17	87.92	4.99
UD1	BASIN-S5	25YR_3DAY	76.16	6.19	8.00	0.0000	4726893	60.00	546.71	91.45	4.91
WP1	BASIN-S5	100YR_3DAY	72.67	6.61	8.00	0.0001	1800889	60.00	325.09	60.10	10.28
WP1	BASIN-S5	10YR_3DAY	72.85	5.91	8.00	0.0000	1412052	60.00	204.55	60.07	6.62
WP1	BASIN-S5	25YR_3DAY	72.80	6.20	8.00	0.0001	1571009	60.00	252.58	60.08	8.56

TABLE II-E-8

BASIN S-5

72-HOUR NODAL STAGE REPORT

10-YEAR, 3-DAY STORM

25-YEAR, 3-DAY STORM

100-YEAR, 3-DAY STORM

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-5 72 HR NODAL STAGE REPORT FOR 10 YR 3 DAY STORM
 TABLE II-E-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10YR_3DAY	C71	BASIN-S5	72.00	5.89	8.00	304971	15.38	14.32	9.3	-2.2
10YR_3DAY	C72	BASIN-S5	72.00	5.68	8.00	30566	0.00	2583.76	0.0	11662.5
10YR_3DAY	C81	BASIN-S5	72.00	5.88	8.00	294112	-1.82	-1.95	57.1	46.1
10YR_3DAY	C82	BASIN-S5	72.00	5.88	8.00	139638	-1.95	0.00	46.1	40.0
10YR_3DAY	C9	BASIN-S5	72.00	3.00	8.00	0	178.00	0.00	192.3	0.0
10YR_3DAY	CH1	BASIN-S5	72.00	5.92	8.00	452411	12.14	12.70	81.8	70.9
10YR_3DAY	CL1	BASIN-S5	72.00	5.67	8.00	8685139	60.75	-1.09	265.4	-1.7
10YR_3DAY	CL2	BASIN-S5	72.00	5.88	8.00	3454680	21.17	19.51	136.3	29.2
10YR_3DAY	CL3	BASIN-S5	72.00	5.88	8.00	2469906	11.09	7.91	113.5	43.7
10YR_3DAY	CP1	BASIN-S5	72.00	5.77	8.00	153061	0.44	-0.26	3.5	0.1
10YR_3DAY	CP2	BASIN-S5	72.00	5.77	8.00	206049	0.60	-0.39	4.7	0.2
10YR_3DAY	CP3	BASIN-S5	72.00	5.79	8.00	1116485	5.07	-0.56	36.8	-4.3
10YR_3DAY	CP6	BASIN-S5	72.00	5.79	8.00	183	-11.94	-10.86	-10.4	35.7
10YR_3DAY	CP7	BASIN-S5	72.00	5.67	8.00	2980639	6.38	-11.39	57.1	-6.1
10YR_3DAY	E1	BASIN-S5	72.00	5.86	8.00	182428	1.61	1.08	11.6	7.3
10YR_3DAY	E2	BASIN-S5	72.00	5.86	8.00	2010864	6.35	0.49	52.6	-0.6
10YR_3DAY	E3	BASIN-S5	72.00	5.88	8.00	403107	18.01	16.75	24.1	14.9
10YR_3DAY	E4	BASIN-S5	72.00	5.86	8.00	1396745	24.63	20.54	79.6	38.6
10YR_3DAY	E5	BASIN-S5	72.00	5.86	8.00	1716979	12.96	8.23	64.2	9.0
10YR_3DAY	E6	BASIN-S5	72.00	5.86	8.00	116420	0.97	0.65	7.0	4.2
10YR_3DAY	E7	BASIN-S5	72.00	5.86	8.00	147050	9.68	9.29	19.1	14.7
10YR_3DAY	ES1	BASIN-S5	72.00	5.99	8.00	64565	0.80	0.73	6.6	4.9
10YR_3DAY	ES2	BASIN-S5	72.00	5.99	8.00	45821	1.14	1.09	8.2	6.8
10YR_3DAY	ES3	BASIN-S5	72.00	5.99	8.00	148481	3.58	3.43	27.1	24.1
10YR_3DAY	ES4	BASIN-S5	72.00	5.99	8.00	5090204	25.64	20.54	185.9	46.2
10YR_3DAY	ES5	BASIN-S5	72.00	5.99	8.00	479150	3.79	3.35	25.0	15.7
10YR_3DAY	FS	BASIN-S5	72.00	4.65	8.00	3475	177.99	178.00	185.0	192.3
10YR_3DAY	PS1	BASIN-S5	72.00	5.79	8.00	651679	4.11	1.28	27.4	11.4
10YR_3DAY	PS2	BASIN-S5	72.00	5.79	8.00	964853	3.65	0.00	33.0	10.4
10YR_3DAY	R1	BASIN-S5	72.00	5.79	8.00	2866730	-1.32	-14.52	97.4	-13.7
10YR_3DAY	SES1	BASIN-S5	72.00	5.00	7.50	15466061	154.06	177.99	533.3	185.0
10YR_3DAY	SIL1	BASIN-S5	72.00	5.50	7.50	8072692	113.42	103.42	371.1	154.2
10YR_3DAY	SIL2	BASIN-S5	72.00	5.77	7.50	5278490	51.49	42.43	222.1	71.8
10YR_3DAY	SIL3	BASIN-S5	72.00	5.51	7.50	1926958	8.21	5.59	65.1	17.7
10YR_3DAY	SIL4	BASIN-S5	72.00	5.70	7.50	10374810	85.25	71.05	397.5	118.8
10YR_3DAY	SIL5	BASIN-S5	72.00	5.78	7.50	4461942	20.42	12.57	125.7	-6.3
10YR_3DAY	SIL6	BASIN-S5	72.00	5.77	7.50	1205316	7.48	5.44	55.2	26.4
10YR_3DAY	SIL7	BASIN-S5	72.00	5.77	7.50	323682	2.25	1.69	17.8	9.7
10YR_3DAY	SIL8	BASIN-S5	72.00	5.77	7.50	257609	1.78	1.33	14.9	8.3
10YR_3DAY	SIL9	BASIN-S5	72.00	5.78	7.50	1435437	6.18	3.65	52.7	-0.6
10YR_3DAY	SL1	BASIN-S5	72.00	5.68	8.00	11490680	2618.44	9.37	11970.0	12.9
10YR_3DAY	SL2	BASIN-S5	72.00	5.68	8.00	822399	4.53	2.75	29.3	12.3
10YR_3DAY	SL3	BASIN-S5	72.00	5.68	8.00	1615053	13.24	10.35	76.0	46.0
10YR_3DAY	SL4	BASIN-S5	72.00	5.69	8.00	801425	4.19	2.92	27.4	9.8
10YR_3DAY	SL5	BASIN-S5	72.00	5.67	8.00	187428	9.77	9.38	16.3	12.2
10YR_3DAY	SL6	BASIN-S5	72.00	5.64	8.00	16203668	48.77	-12.87	384.2	-17.4
10YR_3DAY	SL7	BASIN-S5	72.00	5.64	8.00	301630	1.88	0.74	12.0	5.9
10YR_3DAY	SL8	BASIN-S5	72.00	5.64	8.00	291057	0.96	-0.18	6.3	0.8
10YR_3DAY	UD1	BASIN-S5	72.00	5.89	8.00	4491133	12.57	-6.92	95.1	-40.9
10YR_3DAY	WP1	BASIN-S5	72.00	5.90	8.00	1410435	6.14	1.75	43.8	4.0

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-5 72 HR NODAL STAGE REPORT FOR 25 YR 3 DAY STORM
 TABLE II-E-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR_3DAY	C71	BASIN-S5	72.00	6.18	8.00	304971	14.77	13.56	10.7	-2.8
25YR_3DAY	C72	BASIN-S5	72.00	5.95	8.00	30620	0.00	2792.19	0.0	11946.4
25YR_3DAY	C81	BASIN-S5	72.00	6.22	8.00	294112	2.50	2.16	69.9	56.6
25YR_3DAY	C82	BASIN-S5	72.00	6.22	8.00	139805	2.16	8.01	56.6	49.9
25YR_3DAY	C9	BASIN-S5	72.00	3.00	8.00	0	178.00	0.00	220.0	0.0
25YR_3DAY	CH1	BASIN-S5	72.00	6.33	8.00	598825	15.01	22.78	104.7	88.7
25YR_3DAY	CL1	BASIN-S5	72.00	5.97	8.00	9133785	70.89	-1.04	326.4	-2.0
25YR_3DAY	CL2	BASIN-S5	72.00	6.22	8.00	3862561	28.52	23.43	171.1	35.8
25YR_3DAY	CL3	BASIN-S5	72.00	6.22	8.00	2869176	21.78	12.13	144.3	53.4
25YR_3DAY	CP1	BASIN-S5	72.00	6.02	8.00	159134	0.54	-0.15	4.3	0.1
25YR_3DAY	CP2	BASIN-S5	72.00	6.02	8.00	214326	0.73	-0.22	5.8	0.1
25YR_3DAY	CP3	BASIN-S5	72.00	6.03	8.00	1280503	6.78	1.00	47.5	23.4
25YR_3DAY	CP6	BASIN-S5	72.00	6.03	8.00	183	-15.62	-16.49	10.9	-33.9
25YR_3DAY	CP7	BASIN-S5	72.00	5.94	8.00	2994501	7.67	-16.62	69.0	-12.5
25YR_3DAY	E1	BASIN-S5	72.00	6.15	8.00	216017	1.96	1.23	14.6	9.0
25YR_3DAY	E2	BASIN-S5	72.00	6.15	8.00	2042533	7.58	0.66	64.2	-2.6
25YR_3DAY	E3	BASIN-S5	72.00	6.17	8.00	481100	18.05	16.31	30.3	18.3
25YR_3DAY	E4	BASIN-S5	72.00	6.15	8.00	1536248	25.91	20.66	94.8	44.0
25YR_3DAY	E5	BASIN-S5	72.00	6.15	8.00	1828996	14.28	8.38	78.4	11.2
25YR_3DAY	E6	BASIN-S5	72.00	6.15	8.00	136144	1.18	0.75	8.8	5.1
25YR_3DAY	E7	BASIN-S5	72.00	6.15	8.00	160409	10.09	9.59	23.8	18.3
25YR_3DAY	ES1	BASIN-S5	72.00	6.30	8.00	75972	0.96	0.85	8.1	5.8
25YR_3DAY	ES2	BASIN-S5	72.00	6.30	8.00	51116	1.33	1.26	9.9	8.2
25YR_3DAY	ES3	BASIN-S5	72.00	6.30	8.00	185810	4.25	3.98	33.2	28.9
25YR_3DAY	ES4	BASIN-S5	72.00	6.30	8.00	5445166	30.84	22.78	229.4	52.1
25YR_3DAY	ES5	BASIN-S5	72.00	6.30	8.00	614140	4.70	3.84	32.3	19.1
25YR_3DAY	PS	BASIN-S5	72.00	4.90	8.00	3475	178.00	178.00	227.1	220.0
25YR_3DAY	PS1	BASIN-S5	72.00	6.05	8.00	766552	5.11	1.30	35.2	15.2
25YR_3DAY	PS2	BASIN-S5	72.00	6.05	8.00	989535	4.14	0.00	41.2	4.1
25YR_3DAY	R1	BASIN-S5	72.00	6.05	8.00	3039990	-4.53	-20.28	33.4	-18.8
25YR_3DAY	SES1	BASIN-S5	72.00	5.25	7.50	15810456	168.43	178.00	650.7	227.1
25YR_3DAY	SIL1	BASIN-S5	72.00	5.78	7.50	8636845	123.68	106.07	445.8	176.0
25YR_3DAY	SIL2	BASIN-S5	72.00	6.07	7.50	5822760	57.51	44.66	272.7	83.8
25YR_3DAY	SIL3	BASIN-S5	72.00	5.78	7.50	2134140	9.94	5.35	80.5	20.4
25YR_3DAY	SIL4	BASIN-S5	72.00	6.00	7.50	12014943	97.39	74.34	491.4	137.0
25YR_3DAY	SIL5	BASIN-S5	72.00	6.08	7.50	5050963	24.44	13.12	158.4	-6.8
25YR_3DAY	SIL6	BASIN-S5	72.00	6.07	7.50	1483260	9.10	5.86	69.2	31.1
25YR_3DAY	SIL7	BASIN-S5	72.00	6.07	7.50	394302	2.72	1.84	22.0	11.4
25YR_3DAY	SIL8	BASIN-S5	72.00	6.07	7.50	304519	2.14	1.46	18.2	9.7
25YR_3DAY	SIL9	BASIN-S5	72.00	6.08	7.50	1559423	7.43	3.94	64.1	0.5
25YR_3DAY	SL1	BASIN-S5	72.00	5.94	8.00	12043348	2836.45	10.84	12329.2	16.0
25YR_3DAY	SL2	BASIN-S5	72.00	5.95	8.00	960720	5.63	2.96	37.8	15.2
25YR_3DAY	SL3	BASIN-S5	72.00	5.96	8.00	1951871	17.47	14.56	97.8	56.6
25YR_3DAY	SL4	BASIN-S5	72.00	5.97	8.00	930709	5.20	4.54	35.3	12.2
25YR_3DAY	SL5	BASIN-S5	72.00	5.93	8.00	190318	11.33	10.82	20.2	14.8
25YR_3DAY	SL6	BASIN-S5	72.00	5.89	8.00	16881358	59.29	-15.45	476.5	-20.5
25YR_3DAY	SL7	BASIN-S5	72.00	5.89	8.00	358708	2.34	0.76	15.6	7.6
25YR_3DAY	SL8	BASIN-S5	72.00	5.89	8.00	359821	1.19	-0.40	8.1	0.8
25YR_3DAY	UD1	BASIN-S5	72.00	6.17	8.00	4713824	15.42	-10.40	118.8	-47.1
25YR_3DAY	WP1	BASIN-S5	72.00	6.19	8.00	1569349	7.56	2.39	55.4	5.7

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-5 72 HR NODAL STAGE REPORT FOR 100 YR 3 DAY STORM
 TABLE II-E-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
100YR_3DAY	C71	BASIN-S5	72.00	6.59	8.00	304971	14.47	13.07	13.0	-3.4
100YR_3DAY	C72	BASIN-S5	72.00	6.33	8.00	30696	0.00	3106.35	0.0	12386.3
100YR_3DAY	C81	BASIN-S5	72.00	6.68	8.00	294112	16.29	15.74	86.7	70.3
100YR_3DAY	C82	BASIN-S5	72.00	6.67	8.00	140030	15.74	15.26	70.3	61.9
100YR_3DAY	C9	BASIN-S5	72.00	3.00	8.00	0	178.00	0.00	273.8	0.0
100YR_3DAY	CH1	BASIN-S5	72.00	7.06	8.00	790750	19.31	41.79	140.0	112.3
100YR_3DAY	CL1	BASIN-S5	72.00	6.39	8.00	9756159	83.95	-0.43	416.5	-1.8
100YR_3DAY	CL2	BASIN-S5	72.00	6.67	8.00	4396227	42.58	27.39	222.0	44.0
100YR_3DAY	CL3	BASIN-S5	72.00	6.67	8.00	3391657	33.05	21.52	188.8	65.8
100YR_3DAY	CP1	BASIN-S5	72.00	6.39	8.00	168038	0.69	-0.10	5.6	-0.0
100YR_3DAY	CP2	BASIN-S5	72.00	6.39	8.00	226358	0.92	-0.13	7.5	-0.1
100YR_3DAY	CP3	BASIN-S5	72.00	6.39	8.00	1523482	9.05	1.93	64.2	5.9
100YR_3DAY	CP6	BASIN-S5	72.00	6.39	8.00	183	-16.95	-16.95	-14.0	28.6
100YR_3DAY	CP7	BASIN-S5	72.00	6.31	8.00	3013559	9.62	-18.87	87.0	-19.9
100YR_3DAY	E1	BASIN-S5	72.00	6.56	8.00	267286	2.48	1.42	19.2	11.3
100YR_3DAY	E2	BASIN-S5	72.00	6.56	8.00	2090800	9.39	1.06	81.4	-4.8
100YR_3DAY	E3	BASIN-S5	72.00	6.58	8.00	602375	18.76	16.21	40.2	23.2
100YR_3DAY	E4	BASIN-S5	72.00	6.56	8.00	1744219	28.55	21.53	118.5	52.3
100YR_3DAY	E5	BASIN-S5	72.00	6.56	8.00	1998777	17.15	9.55	101.1	16.1
100YR_3DAY	E6	BASIN-S5	72.00	6.56	8.00	165833	1.49	0.88	11.6	6.5
100YR_3DAY	E7	BASIN-S5	72.00	6.56	8.00	180483	11.65	10.98	32.3	25.2
100YR_3DAY	ES1	BASIN-S5	72.00	6.74	8.00	109085	1.20	0.97	10.3	7.2
100YR_3DAY	ES2	BASIN-S5	72.00	6.74	8.00	66586	1.58	1.43	12.5	10.1
100YR_3DAY	ES3	BASIN-S5	72.00	6.74	8.00	294137	5.18	4.55	42.0	35.5
100YR_3DAY	ES4	BASIN-S5	72.00	6.73	8.00	6024590	38.13	25.06	294.1	60.1
100YR_3DAY	ES5	BASIN-S5	72.00	6.74	8.00	821430	6.06	4.34	43.4	23.1
100YR_3DAY	FS	BASIN-S5	72.00	5.25	8.00	3475	178.00	178.00	267.9	273.8
100YR_3DAY	PS1	BASIN-S5	72.00	6.41	8.00	929896	6.60	0.51	47.4	20.2
100YR_3DAY	PS2	BASIN-S5	72.00	6.41	8.00	1024676	4.06	0.00	52.9	20.4
100YR_3DAY	R1	BASIN-S5	72.00	6.41	8.00	3286659	-1.31	-25.50	130.4	-25.6
100YR_3DAY	SES1	BASIN-S5	72.00	5.60	7.50	16861648	188.62	178.00	833.8	267.9
100YR_3DAY	SIL1	BASIN-S5	72.00	6.15	7.50	9325344	137.81	108.68	559.4	212.1
100YR_3DAY	SIL2	BASIN-S5	72.00	6.48	7.50	6481536	66.65	47.62	349.0	102.6
100YR_3DAY	SIL3	BASIN-S5	72.00	6.16	7.50	2389514	12.53	4.86	103.9	24.3
100YR_3DAY	SIL4	BASIN-S5	72.00	6.40	7.50	13518512	115.77	78.17	636.2	164.9
100YR_3DAY	SIL5	BASIN-S5	72.00	6.49	7.50	5590213	30.13	13.58	208.2	-7.0
100YR_3DAY	SIL6	BASIN-S5	72.00	6.48	7.50	1792579	11.51	6.30	90.5	36.9
100YR_3DAY	SIL7	BASIN-S5	72.00	6.48	7.50	497695	3.42	1.95	28.4	13.5
100YR_3DAY	SIL8	BASIN-S5	72.00	6.48	7.50	389256	2.68	1.53	23.1	11.4
100YR_3DAY	SIL9	BASIN-S5	72.00	6.49	7.50	1780513	9.31	4.04	81.4	2.0
100YR_3DAY	SL1	BASIN-S5	72.00	6.32	8.00	12824137	3167.00	13.03	12881.7	20.9
100YR_3DAY	SL2	BASIN-S5	72.00	6.33	8.00	1155856	7.29	2.96	51.1	19.3
100YR_3DAY	SL3	BASIN-S5	72.00	6.36	8.00	2437071	24.29	21.63	131.3	69.8
100YR_3DAY	SL4	BASIN-S5	72.00	6.37	8.00	1119346	6.73	7.43	47.6	14.9
100YR_3DAY	SL5	BASIN-S5	72.00	6.31	8.00	194391	13.66	12.96	26.2	19.1
100YR_3DAY	SL6	BASIN-S5	72.00	6.25	8.00	17855722	74.88	-17.74	616.8	-24.3
100YR_3DAY	SL7	BASIN-S5	72.00	6.25	8.00	440770	3.04	0.76	21.2	9.9
100YR_3DAY	SL8	BASIN-S5	72.00	6.25	8.00	458658	1.54	-0.84	10.9	0.3
100YR_3DAY	UD1	BASIN-S5	72.00	6.57	8.00	4938522	19.68	-14.20	155.0	-54.7
100YR_3DAY	WP1	BASIN-S5	72.00	6.61	8.00	1799242	9.70	3.60	73.4	7.7

SOUTH BROWARD DRAINAGE DISTRICT



BASIN S-6



BASIN S-6

DESCRIPTION

The S-6 Basin is located in the southwest corner of the District. It is the smallest basin in the District consisting of approximately 1,000 acres and is composed primarily of undeveloped wetlands, with an average elevation of 5.0' NGVD. This basin is bordered by Conservation Area 3A to the west, US 27 to the east, Pines Boulevard to the north, and the Miami-Dade County/Broward County line to the south. The boundaries of Basin S-6 are shown in Figure II-F-1, and Table II-F-1 provides the existing culvert schedule for the basin, and Table II-F-2 lists the single control structure in Basin S-6.

Due to its environmental sensitivity, most of this basin has been acquired by SFWMD and will not be subject to future development. In order to maintain the appropriate ground water elevations a control structure located at US 27 and the C-9 Canal is operated by SFWMD.

Basin S-6 drains via overland flow to the SBDD Canal No. 9, which conveys the stormwater runoff to the SFWMD C-9 Canal.

Basin S-6 will be impacted by the proposed BCWPA project (see Significant Future Projects section). This is a joint project by SFWMD and the COE that meets the planning goals set forth in the CERP and includes the construction of the C-11 and C-9 above-ground impoundment areas; a 4,553-acre seepage management area east of Water Conservation Area 3A; and canal conveyance improvements to the SBDD Canal No. 9. Additional information on this project, including the Executive Summary from the Final Integrated BCWPA PIR and EIS can be found at:

<https://www.saj.usace.army.mil/Missions/Environmental/Ecosystem-Restoration/Broward-County-Water-Preserve-Areas/>

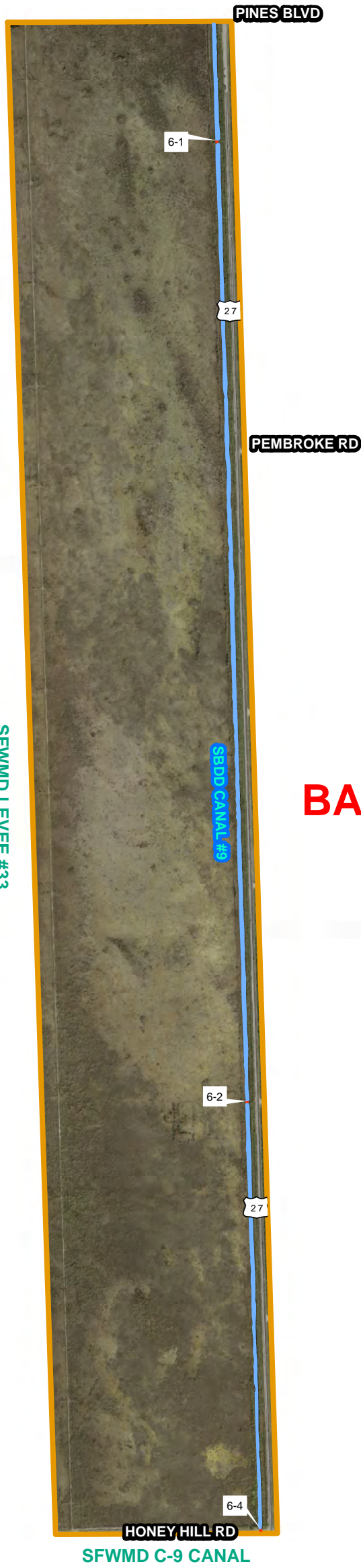
It is SBDD's intention to work with both SFWMD and the COE on the design elements of this project to ensure that there are no adverse impacts to the District.

SUMMARY & RECOMMENDATIONS

Most all of the property within this basin is owned by SFWMD, and will remain a permanent wetland/buffer area. As a result, a basin water management evaluation has not been performed and an analysis of Basin S-6 is not presented in the report.

SFWMD CONSERVATION AREA

SFWMD LEVEE #33



BASIN S-6

**SOUTH BROWARD DRAINAGE DISTRICT
BASIN: S-6 EXISTING FACILITIES MAP**

Legend

- SFWMD Canal
- Culverts
- Water Bodies

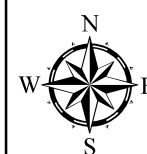


FIGURE II-F-1

TABLE II-F-1

BASIN S-6 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
6-1	US 27 Canal	US 27 & (S) of Pines Blvd.	30	RCP	CIRC.	30	
6-2	US 27 Canal	US 27 & 1.5 Miles (S) of Pembroke Rd.	LAND WEIR				Control Structure
6-4	US 27 Canal	US 27 & C-9 Canal	48	CMP	CIRC.	32	

TABLE II-F-2

BASIN S-6 CONTROL STRUCTURE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>General Comments</i>
6-2	US 27 Canal	US 27 & 1.5 Miles (S) of Pembroke Rd.	Ground Weir

SOUTH BROWARD DRAINAGE DISTRICT



BASIN S-8



BASIN S-8

DESCRIPTION

The S-8 Basin encompasses approximately 9.5 square miles and consists of a mixture of rural and urban development. It is bounded on the north by Griffin Road, the south by Pines Boulevard and Sheridan Street, the east by I-75 and SW 148th Avenue (Volunteer Road), and on the west by SW 186th Avenue and SW 185th Way north of Sheridan Street and by SW 172nd Avenue from Sheridan Street to Pines Boulevard. The S-8 Basin includes portions of the City Pembroke Pines, the Town of Southwest Ranches and the Town of Davie. The receiving water body for this basin is the SFWMD C-11 Canal. The permitted discharge to the SFWMD C-11 Canal is controlled by the S-8 pump station located on SBDD Canal No. 11 (SW 172nd Avenue Canal) south of Griffin Road.

The Basin S-8 boundaries and existing facilities are shown in Figure II-G-1, and the Table II-G-1 provides a summary of the Basin S-8 characteristics.

Since 2013, there has been limited development within the S-8 Basin and the majority of the required water management system is in place and operational.

The following improvements have been completed within the S-8 Basin since 2013:

S-8 Pump Station Improvements

- Installed a 48" emergency by-pass culvert and sluice gate.
- Installed cameras for security and operational purposes.
- Installed new roof-top mufflers for the engines at the S-8 pump station.
- Installed new LED lighting at the S-8 pump station.
- Rebuilt one of three Caterpillar diesel engines.
- Rebuilt all three stormwater pumps.
- Installed two new gear drives and rebuilt one gear drive.
- Replaced the drive shafts (carbon fiber) and clutches for all pumps/engines.
- Replaced the roof covering.
- Replaced the battery chargers.

Basin-Wide Improvements

- Dredged lateral canals at miscellaneous locations in the Town of SW Ranches.
- Installed an adjustable sluice gate and telemetry at the Ivanhoe control structure. The control structure (concrete weir) was also modified and cut down to allow discharge of this sub-basin below the Control Water Elevation.
- Installed motors, telemetry system, and security fencing for the SW 164th Terrace Sluice Gate, SW 170th Avenue Sluice Gate, and the Rolling Oaks Sluice Gate. These improvements provide SBDD with the ability to operate all sluice gates along the C-11 Canal remotely thorough its Data Flow system (telemetry).
- Constructed a lateral canal from Dykes Road to SBDD Canal No. 11 through Calusa Corners Park to improve the drainage for Dykes Road and to allow for a future basin connection for the Green Meadows area of SW Ranches. This was a joint project

with the Town of SW Ranches with partial funding through a SFWMD Cooperative Grant.

- Completed the swale improvements along the NW quadrant of Landmark Ranch Estates to serve the West Broward Estates II development.
- Installed pipe liners at 8 locations in Rolling Oaks (SW Ranches).
- Completed lateral swale/ditch improvements at SW 183rd Avenue.
- Replaced the existing 48” culvert on SW 70th Place with a new 48” RCP culvert (#8-71).
- Replaced 24” Culvert #8-39 with new 24” HDPE Culvert, and slipped-lined Culvert #s 8-41 and 8-42 (SW 164th Avenue Canal).
- Installed Fabric Form revetment at one location in the Town of Davie (2014).
- Installed Fabric Form revetment at Ivanhoe Flood Gate and SW 164th Avenue Flood Gate (2020).
- Performed miscellaneous culvert cleanings.
- Performed miscellaneous tree removal work throughout the basin.

The following new developments and redevelopments have been completed:

- * Terra Ranches, Porsche Penske, Sheridan Village Commercial, Calusa Corners Park (Dykes Road Drainage & Water Quality Project), and Rolling Oaks Estates (Toll Brothers).

The following infrastructure improvements are proposed for the S-8 Basin:

- Canal improvements (dredging) for the SW 184th Avenue Canal and other lateral canals located in Rolling Oaks.
- Continued drainage improvements and hydraulic connections for the Green Meadows area of SW Ranches.
- Continued hardening of lake banks and headwalls at critical lake interconnect locations.
- Continued installation of boat ramps for improved access by SBDD maintenance crews, as needed.
- Miscellaneous swale and culvert repairs/replacements.

METHODOLOGY

Basin S-8 is comprised of two sub-basins with two different Control Water Elevations as shown in Figure II-G-2:

- The Ivanhoe development sub-basin has a control elevation of 4.0’ NGVD and is located along the I-75 corridor, from Griffin Road to Sheridan Street. The water management system for the Ivanhoe sub-basin is comprised of a series of interconnected lakes and canals that discharge into SBDD Canal No.10 located west of I-75. Canal No. 10 extends from Griffin Road to Sheridan Street and connects to SBDD Canal No. 11 at the southern end via a series of east-west lateral canals and culverts (between SW 66th Street and SW 68th Street).

- An adjustable control structure is located at the southern end of Canal No. 10 which controls the water elevation within the Ivanhoe sub-basin at elevation 4.0' NGVD. There is also an adjustable sluice gate with telemetry located at the north end of Canal No. 10 with a 66" RCP outfall into the SFWMD C-11 Canal. In 2018, SBDD modified this weir structure to allow discharge into the C-11 Canal and the drawdown of the Ivanhoe sub-basin below the CWE of 4.0' NGVD. Also in 2017, SBDD modified the SFWMD Basin S-8 Permit to incorporate the "Ivanhoe" Sluice Gate into SBDD's stormwater management operations for the S-8 Basin (no longer emergency use only).
- The remaining portion of Basin S-8 has a water control elevation of 3.50' NGVD which is maintained through the S-8 Pump Station and three other sluice gates within the basin.

The two primary canals in Basin S-8 are SBDD Canal Nos. 10 and 11. These two canals are connected by a series of east-west, lateral canals located throughout the basin. SBDD Canal No. 11 is located along SW 172nd Avenue and flows south to north; and discharges into the SFWMD C-11 Canal through the S-8 Pump Station. The flow characteristics and discharge points for SBDD Canal No.11 are described above. Basin S-8 also includes three additional, secondary canals with discharge points into the C-11 Canal as follows: SW 164th Terrace Canal; SW 170th Ave Canal; and SW 178th Ave Canal (a.k.a.: Rolling Oaks Canal). There is an existing sluice located at the discharge point into the C-11 Canal at each of these secondary canal locations, and since, 2005, these gates have been operated on an emergency basis only by SBDD.

Water quality requirements and discharge rates from the S-8 Basin are regulated by the SFWMD Permit # 06-01400-S with a permitted discharge rate of 75,000 GPM from elevation 4.3' NGVD to elevation 4.55' NGVD and 150,000 GPM from elevation 4.55' NGVD to elevation 5.4' NGVD.

In 2017, SBDD modified SFWMD Permit #06-01400-S to incorporate all of the existing sluice gates along the C-11 Canal into its stormwater management operations. The allowable discharge rate (330 cfs) and water quality requirements for the S-8 Basin remain the same. In 2018, SBDD installed an emergency by-pass culvert and sluice gate at the S-8 stormwater pump station and modified the "Ivanhoe" sluice gate; and tied both of these sluice gates into its telemetry system to allow for the remote operation of these gates.

SBDD Basin S-8 now has five (5) points of permitted discharge into the C-11 Canal as follows:

- Ivanhoe Sluice Gate (CWE 4.0' NGVD)
- S-8 Pump Station - Sluice Gate and Pumps (CWE 3.5' NGVD)
- SW 164th Terrace Sluice Gate (CWE 3.5' NGVD)
- SW 170th Avenue Sluice Gate (CWE 3.5' NGVD)
- Rolling Oaks Sluice Gate (CWE 3.5' NGVD)

The former Bailey Drainage District (Rolling Oaks Community) is located within Basin S-8 and has an established system of lateral canals that discharge into SBDD Primary Canal No. 11 and SBDD's secondary canals at several locations.

The portion of Basin S-8 located south of Sheridan Street consists of several large residential communities (Towngate, Spring Valley and Pembroke Isles). These subdivisions all have interconnected drainage systems consisting of lakes and culverts with a single point of discharge under Sheridan Street at SW 166th Avenue into SBDD's Canal No. 11.

Since the last Facilities Report update, there has been no significant new development within the S-8 Basin. The majority of the water management areas that serves the basin are in place and operational. Therefore, the AdICPR model for this basin has not been updated.

Figure II-G-1 depicts the existing facilities in Basin S-8 and Table II-G-2 provides the existing culvert schedule for the basin. Figures II-G-3, II-G-4, II-G-5, and II-G-6 show the existing flood gates, control structures, staff gauges, and fish guards within basin S-8, respectively, with corresponding Schedule Tables II-G-3, II-G-4, II-G-5 and II-G-6.

MODEL ANALYSIS

Based on the 2005 AdICPR model results, all properties within Basin S-8 meet the District's adopted Level of Service. The model results also show that SBDD's two primary canals which serve the basin, Canal No. 10 and Canal No. 11 are not restrictive and the peak stages and cumulative head loss in these canals are acceptable. The required water quality for the basin is provided through S-8 Pump Station.

Figure II-G-7 shows the overall AdICPR nodal diagram for Basins S-8 and Tables II-G-7 and II-G-8 list the AdICPR output data for maximum stages and 72-hour stages at each node within the basin.

SUMMARY & RECOMMENDATIONS

The 2005 AdICPR model analysis performed for Basin S-8 indicates that the required Level of Service is being met in this basin and all areas of the basin are protected during the 10-year, 3-day (roads) and 100-year, 3-day storm events (finished floors).

In the 2013 Facilities Report update, the following recommendations were proposed in order to improve the overall performance of the water management system in Basin S-8:

- Install a hydraulic connection (48" RCP) for the area located north of SW 54th Street and east of SW 178th Avenue to SBDD Canal No. 11.
- Install a hydraulic connection for the area located between SW 166^h Avenue and SW 170th Avenue, north of SW 54th Street to SBDD Canal No. 11.

It is worth noting, that due to the modification of the SFWMD Basin S-8 Permit, these improvements are no longer necessary; as the SFWMD Basin S-8 permit modification allows SBDD to revert back to the historic hydraulic flow and discharge for the basin.

The following recommendations are proposed under the 2021 Facilities Report update in order to improve the overall performance of the water management system in Basin S-8:

- Extend the lateral canal at Dykes Road and Calusa Corners Park through the SW Meadows Sanctuary site and the Green Meadows area of SW Ranches. This will provide a positive drainage connection for the Green Meadows section of SW Ranches and will also allow for a future basin inter-connect to the SW 164th Avenue Canal.
- Provide additional drainage improvements and hydraulic connections for the Green Meadows area of SW Ranches.
- All undeveloped areas and redevelopment projects to provide a minimum of 20% water management area, or equivalent.

TABLE II-G-1

***SUMMARY OF BASIN CHARACTERISTICS
BASIN S-8***

GENERAL

TOTAL BASIN AREA	(AC)	6100
TOTAL PERVIOUS AREA	(AC)	3610 (59%)
TOTAL IMPERVIOUS AREA	(AC)	1775 (29%)
LAKE AREA	(AC)	715 (12%)
DESIGN CONTROL ELEVATION	(FT NGVD)	3.50
Ivanhoe (See Figure II-G-2)	(FT NGVD)	4.00
10-YEAR 3-DAY FLOOD ELEVATION	(FT NGVD)	6.00
Ivanhoe (See Figure II-G-2)	(FT NGVD)	6.50
(MINIMUM ROAD CROWN)		
100-YEAR 3-DAY FLOOD ELEVATION	(FT NGVD)	8.00
Ivanhoe (See Figure II-G-2)	(FT NGVD)	8.00
(MINIMUM FINISHED FLOOR ELEVATION)		

Note:

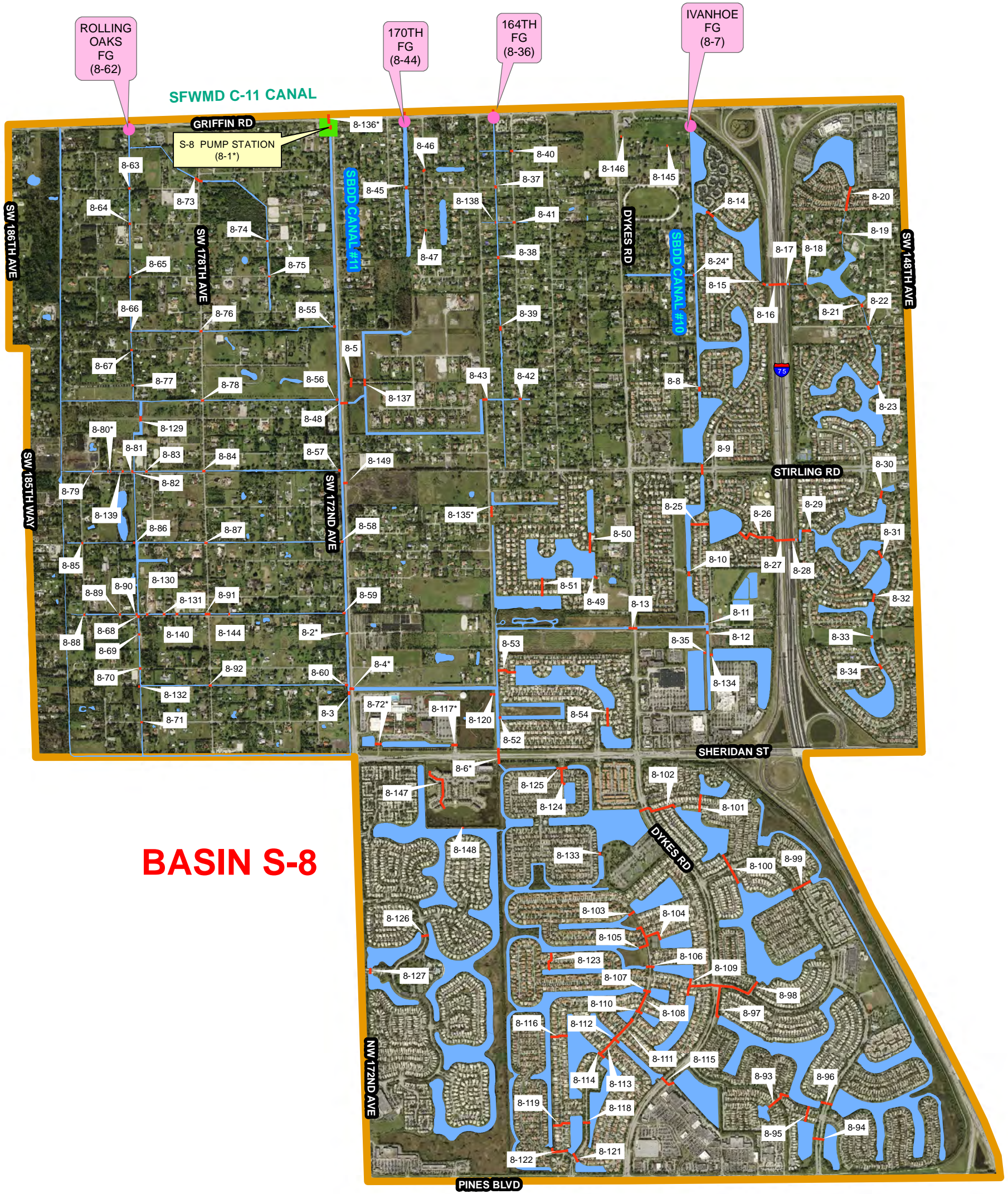
All undeveloped areas are required to have a minimum of 20% water management area and to comply with all SFWMD and SBDD minimum design criteria.

S.F.W.M.D. PERMIT CONDITIONS (PERMIT # 06-01400-S)

DISCHARGE CONTROL STRUCTURE		PUMP STA
DISCHARGE CAPACITY	(CFS)	330
RECEIVING WATER		SFWMD C-11

CANAL

CANAL NAME		SBDD No 10
LENGTH	(FT)	10,550
CANAL NAME		SBDD No 11
LENGTH	(FT)	14,500
MANNING'S "n"		0.033



**SOUTH BROWARD DRAINAGE DISTRICT
BASIN: S-8 EXISTING FACILITIES MAP**

Legend

- Major Control Structures
- ~ SFWMD Canal
- Culverts
- SBDD Pump Station
- Water Bodies

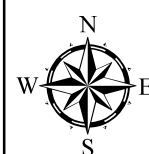


FIGURE II-G-1

TABLE II-G-2

BASIN S-8 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
8-1.1	S-8 Pump Station	17221 SW 46th St.	48	STEEL	CIRC.	5	60K GPM - 75K GPM, Pump # 1
8-1.2	S-8 Pump Station	17221 SW 46th St.	48	STEEL	CIRC.	5	60K GPM - 75K GPM, Pump # 2
8-1.3	S-8 Pump Station	17221 SW 46th St.	48	STEEL	CIRC.	5	60K GPM - 75K GPM, Pump # 3
8-1.4	S-8 Pump Station	17221 SW 46th St.	48	HDPE	CIRC.	71	Flood Gate
8-2.1	SW 172nd Ave. Canal	SW 172nd Ave. & FPL Crossing (N) of Sheridan St.	96	RCP	CIRC.	41	
8-2.2	SW 172nd Ave. Canal	SW 172nd Ave. & FPL Crossing (N) of Sheridan St.	96	RCP	CIRC.	41	
8-2.3	SW 172nd Ave. Canal	SW 172nd Ave. & FPL Crossing (N) of Sheridan St.	96	RCP	CIRC.	41	
8-3	SW 172nd Ave. Canal	SW 172nd Ave. & (N) of Sheridan St.	48	RCP	CIRC.	70	
8-4.1	Alton Canal - Outfall	SW 172nd Ave. & (N) of Sheridan St.	84	RCP	CIRC.	88	
8-4.2	Alton Canal - Outfall	SW 172nd Ave. & (N) of Sheridan St.	84	RCP	CIRC.	88	
8-4.3	Alton Canal - Outfall	SW 172nd Ave. & (N) of Sheridan St.	84	RCP	CIRC.	88	
8-5	Landmark Ranches	(E) of SW 172nd Ave. & Entry Rd.	36 X 24	RCP	RECT.	176	
8-6.1	SW 166th Ave. & Sheridan St.	SW 166th Ave. & Sheridan St.	96	RCP	CIRC.	300	
8-6.2	SW 166th Ave. & Sheridan St.	SW 166th Ave. & Sheridan St.	96	RCP	CIRC.	300	
8-7	Ivanhoe - (N) Flood Gate	Hawke's Bluff Ave. & Griffin Rd.	66	RCP	CIRC.	477	Flood Gate
8-8	Ivanhoe - Hawke's Bluff	Surrey Circle East & Huntridge Rd.	60	RCP	CIRC.	90	
8-9	Ivanhoe - Hawke's Bluff	Hawke's Bluff Ave. & Stirling Rd.	60	RCP	CIRC.	195	
8-10	Ivanhoe - Waverly Hundred	Olde Moat Way & Ashby Field Rd.	60	RCP	CIRC.	93	
8-11	Ivanhoe - Waverly Hundred	Hawke's Bluff Ave. & Sledgemill Rd.	45 X 120	RCP	RECT.	2	Control Structure / Flood Gate
8-12	Ivanhoe - Waverly Hundred	Hawke's Bluff Ave. & (E-W) FPL Crossing	60	RCP	CIRC.	61	
8-13	Ivanhoe / Coquina Outfall	SW 160th Ave. & SW 66th St.	84	RCP	CIRC.	169	
8-14	Ivanhoe - Hawke's Bluff	Hawke's Bluff Ave. & Roundtable Rd.	48	CMP	CIRC.	176	
8-15	Ivanhoe - Hawke's Bluff to I-75	King Arthur Ave. & I-75	54	CAP	CIRC.	70	
8-16	I-75 (N) of Stirling Rd.	I-75 & (N) of Stirling Rd.	68 X 43	RCP	ELLIP.	337	
8-17	I-75 (N) of Stirling Rd.	North Bound I-75 & (N) of Stirling Rd.	54	RCP	CIRC.	20	
8-18	Ivanhoe Estates	5241 Saxon Circle West	36	CMP	CIRC.	52	Control Structure
8-19	Ivanhoe Estates	15021 Saxon Circle North	30	CMP	CIRC.	60	
8-20	Chelsea at Ivanhoe	SW 150th Ave. & Palomino Dr.	48	CMP	CIRC.	462	Control Structure
8-21	Ivanhoe Estates	14980 Saxon Circle South	24	CMP	CIRC.	70	
8-22	Ivanhoe - Santa Fe Estates / Waterford	(W) of SW 148th Ave. & SW 54th Pl.	24	RCP	CIRC.	81	
8-23	Ivanhoe - Waterford	14910 E. Waterford Dr.	36	CMP	CIRC.	85	
8-24.1	Dykes Rd. - Outfall Canal	15701 SW 53rd Ct.	48	CMP	CIRC.	26	

TABLE II-G-2

BASIN S-8 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
8-24.2	Dykes Rd. - Outfall Canal	15701 SW 53rd Ct.	48	CMP	CIRC.	26	
8-25	Ivanhoe - Waverly Hundred	6210 Olde Moat Way	48	RCP	CIRC.	342	
8-26	Waverly Hundred To I-75	6255 Hawke's Bluff Ave.	48	PVC	CIRC.	788	
8-27	I-75 (N) of Sheridan St.	I-75 & (N) of Sheridan St.	60 X 38	RCP	ELLIP.	404	
8-28	I-75 North bound (N) of Sheridan St.	(E) Side of I-75 & (N) of Sheridan St.	54	RCP	CIRC.	20	
8-29	Ivanhoe - Falcon's Lea	6320 Falcon's Lea Dr.	24	PVC	CIRC.	175	
8-30	Ivanhoe - Falcon's Lea	Falcons gate Ave. & Davie Fire Station	24	PVC	CIRC.	151	
8-31	Ivanhoe - Falcon's Lea	14900 Falcon's Lea Dr.	24	PVC	CIRC.	164	
8-32	Ivanhoe - Falcon's Lea	14920 Windbluff St.	24	PVC	CIRC.	164	
8-33	Ivanhoe - Crossbow	Falcons gate Ave. & FPL Easement	24	PVC	CIRC.	60	
8-34	Ivanhoe - Crossbow	Falcons gate Ave. & Archevale St.	30 & 24	PVC	CIRC.	132	
8-35	Coquina Flats	Lowe's Lake To Britannia Canal	48	RCP	CIRC.	54	
8-36	Green Meadows	SW 164th Ter. & Griffin Rd.	36	RCP	CIRC.	177	Flood Gate
8-37	Green Meadows	SW 164th Ter. & SW 49th St.	27	HDPE	CIRC.	60	
8-38	Green Meadows	SW 164th Ter. & SW 51st Mnr.	27	HDPE	CIRC.	60	
8-39	Green Meadows	SW 164th Ter. & SW 54th Pl.	24	HDPE	CIRC.	96	
8-40	Green Meadows	4710 SW 164th Ter.	12	CMP	CIRC.	59	
8-41	Green Meadows	5010 SW 164th Ter.	12	CMP	CIRC.	56	
8-42	Green Meadows	5710 SW 164th Ter.	48	CMP	CIRC.	60	
8-43	Green Meadows / Landmark Ranch Estates	5700 SW 166th Ave.	48	RCP/CMP	CIRC.	100	
8-44	Deems Ranches	SW 168th Ave. & Griffin Rd.	48	RCP	CIRC.	191	Flood Gate
8-45	Deems Ranches	(W) of SW 168th Ave. & SW 49th St.	60 x 36	CMP	ELLIP.	60	
8-46	Deems Ranches	4821 SW 168th Ave.	18	CMP	CIRC.	64	
8-47	Deems Ranches	5020 SW 168th Ave.	15	CMP	CIRC.	50	
8-48	Landmark Ranch Estates	SW 172nd Ave. & (S) of Windsor Blvd.	72	RCP	CIRC.	140	
8-49	SBDD Headquarters	6591 SW 160th Ave.	18	RCP	CIRC.	72	Control Structure
8-50	Estates of Stirling Lakes	16201 Owasco Dr.	30	RCP	CIRC.	385	
8-51	Estates of Stirling Lakes	16407 Huron Ter.	30	RCP	CIRC.	350	
8-52	Stoneridge Lake Estates	Stoneridge Lake Estates - Mitigation	24	CAP	CIRC.	50	Control Structure
8-53	Stoneridge Lake Estates	6698 SW 166th Dr.	48	RCP	CIRC.	360	
8-54	Stoneridge Lake Estates	16164 Mariposa Circle N.	48	RCP	CIRC.	350	
8-55	Rolling Oaks - Lateral # 2 Outfall	Behind 17320 SW 54th St.	48	RCP	CIRC.	53	

TABLE II-G-2

BASIN S-8 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
8-56	Rolling Oaks - Lateral # 3 Outfall	SW 172nd Ave. & (N) of SW 58th St.	48	RCP	CIRC.	53	
8-57	Rolling Oaks - Lateral # 4 Outfall	SW 172nd Ave. & Stirling Rd.	48	RCP	CIRC.	53	
8-58	Rolling Oaks - Lateral # 5 Outfall	SW 172nd Ave. & (N) of SW 63rd Mnr.	48	RCP	CIRC.	53	
8-59	Rolling Oaks - Lateral # 6 Outfall	SW 172nd Ave. & (S) of SW 65th Ct.	48	RCP	CIRC.	57	
8-60	Rolling Oaks - Lateral # 7 Outfall	Behind 17210 SW 68th Court	48	RCP	CIRC.	57	
8-62	Rolling Oaks - Canal 2 Outfall	SW 181st Ave. & Griffin Rd.	54	RCP	CIRC.	181	Flood Gate
8-63	Rolling Oaks	18050 SW 50th St.	42	HDPE	CIRC.	45	
8-64	Rolling Oaks	18050 SW 50th Ct.	42	HDPE	CIRC.	43	
8-65	Rolling Oaks	18031 SW 52nd Ct.	36	HDPE	CIRC.	40	
8-66	Rolling Oaks	Behind 17933 SW 55th St.	BRIDGE				
8-67	Rolling Oaks	17933 SW 55th St.	42	HDPE	CIRC.	43	
8-68	Rolling Oaks	(E) of 18100 SW 66th St.	36	HDPE	CIRC.	49	
8-69	Rolling Oaks / Hart's Nursery	(E) of 18100 SW 66th St. & (S) of SW 66th St.	48	HDPE	CIRC.	40	
8-70	Rolling Oaks	18100 SW 68th Ct.	36	HDPE	CIRC.	46	
8-71	Rolling Oaks	18070 SW 70th Pl.	48	RCP	CIRC.	40	
8-72.1	Academic Village	(E) of SW 172nd Ave. & (N) of Sheridan St.	42	RCP	CIRC.	128	
8-72.2	Academic Village	(E) of SW 172nd Ave. & (N) of Sheridan St.	42	RCP	CIRC.	128	
8-73	Rolling Oaks - Lateral # 1	SW 178th Ave. & (S) of SW 48th St.	48	RCP	CIRC.	170	
8-74	Rolling Oaks	(E) of 17620 SW 51st St.	36	RCP	CIRC.	33	
8-75	Rolling Oaks	(E) of 17520 SW 52nd Ct.	36	RCP	CIRC.	33	
8-76	Rolling Oaks - Lateral # 2	SW 178th Ave. & (S) of SW 54th St.	48	RCP	CIRC.	58	
8-77	Rolling Oaks	18000 SW 57th St.	36	HDPE	CIRC.	45	
8-78	Rolling Oaks - Lateral # 3	SW 178th Ave. & (S) of SW 57th St.	48	RCP	CIRC.	56	
8-79	Rolling Oaks	18231 Stirling Rd.	21	CMP	CIRC.	22	
8-80.1	Rolling Oaks	18221 Stirling Rd. - East Pipe	36	CMP	CIRC.	16	
8-80.2	Rolling Oaks	18221 Stirling Rd. - West Pipe	36	CMP	CIRC.	20	
8-81	Rolling Oaks	(W) of 18001 Stirling Rd.	36	CMP	CIRC.	41	
8-82	Rolling Oaks	(W) of 18001 Stirling Rd.	BRIDGE				
8-83	Rolling Oaks	18001 Stirling Rd.	48	CMP	CIRC.	50	
8-84	Rolling Oaks - Lateral # 4	SW 178th Ave. & Stirling Rd.	48	RCP	CIRC.	56	
8-85	Rolling Oaks	(N) of 6310 SW 183rd Way	18	RCP	CIRC.	34	
8-86	Rolling Oaks	SW 181st Ave. & (S) of SW 61st Ct.	36	CMP	CIRC.	40	

TABLE II-G-2

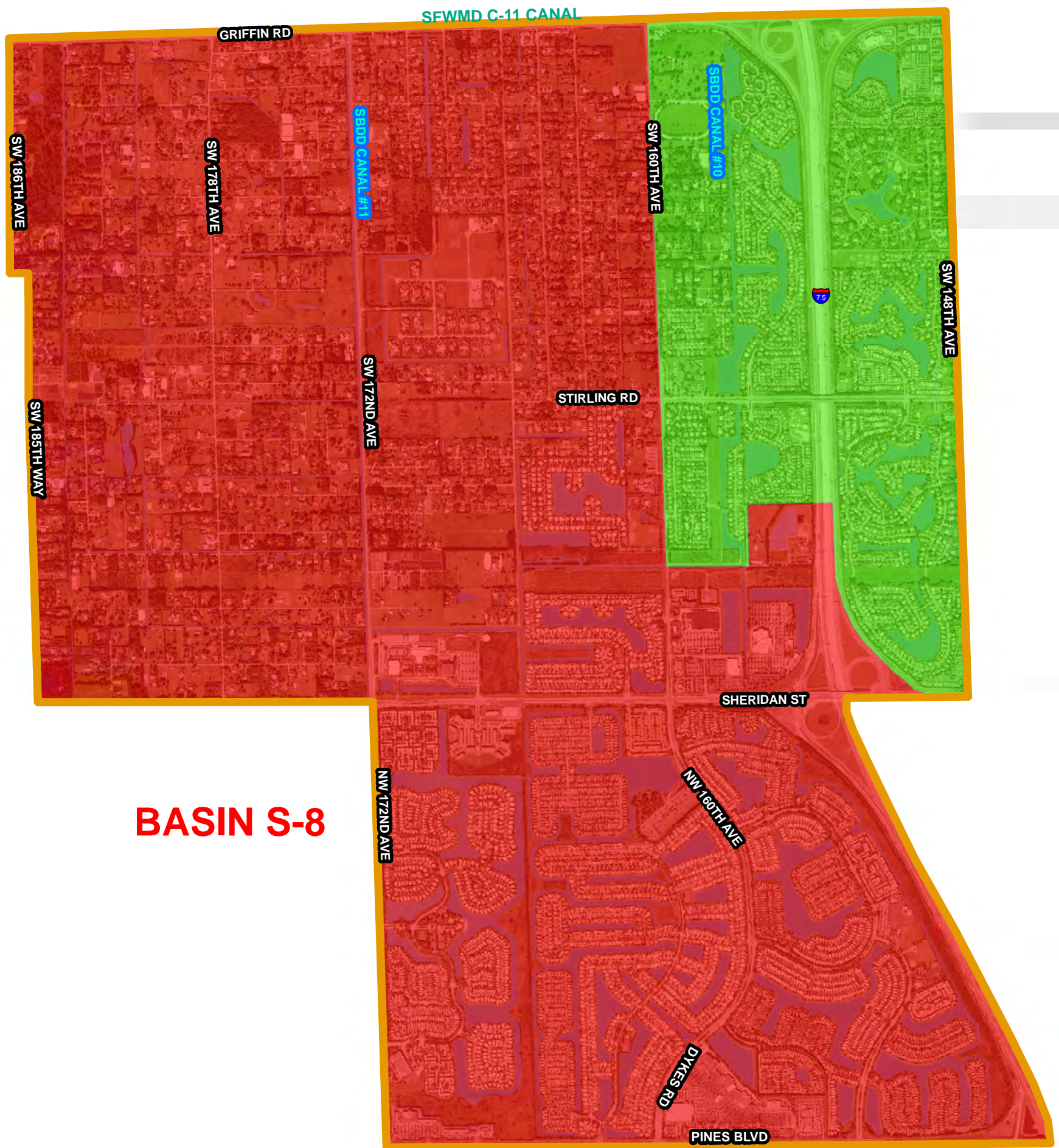
BASIN S-8 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
8-87	Rolling Oaks - Lateral # 5	(S) of 6201 SW 178th Ave.	48	RCP	CIRC.	58	
8-88	Rolling Oaks	SW 183rd Way & SW 66th St.	18	RCP/CAP	CIRC.	36	
8-89	Rolling Oaks	6520 SW 181st Ln.	18	CMP	CIRC.	40	
8-90	Rolling Oaks	(E) of 6520 SW 181st Ln.	36	CMP	CIRC.	41	
8-91	Rolling Oaks - Lateral # 6	SW 178th Ave. & SW 66th St.	48	RCP	CIRC.	105	
8-92	Rolling Oaks - Lateral # 7	(S) of 6921 SW 178th Ave.	48	RCP	CIRC.	57	
8-93	Towngate	(W) of NW 158th Ln. & NW 5th St.	54	RCP	CIRC.	491	
8-94	Towngate	NW 155th Ave. & (N) of Pines Blvd.	42	RCP	CIRC.	218	
8-95	Towngate	(W) of NW 155th Ave. & NW 5th St.	42	RCP	CIRC.	301	
8-96	Towngate	NW 155th Ave. & (N) of NW 5th St.	48	RCP	CIRC.	223	
8-97	Towngate	NW 160th Ave. & (S) of NW 12th St.	60	RCP	CIRC.	617	
8-98	Towngate	NW 159th Ter. & NW 12th St.	60	RCP	CIRC.	1405	
8-99	Towngate	NW 155th Ave. & NW 14th Ct.	48	RCP	CIRC.	398	
8-100	Towngate	NW 158th Way & NW 15th St.	48	RCP	CIRC.	615	
8-101	Towngate	(W) of NW 158th Way & NW 16th Ct.	48	RCP	CIRC.	336	
8-102	Towngate	NW 160th Ave. & NW 20th St.	60	RCP	CIRC.	761	
8-103	Spring Valley	NW 163rd Ave. & (S) of NW 15th St.	48	RCP	CIRC.	136	
8-104	Spring Valley	(E) of NW 163rd Ave. & NW 14th St.	48	RCP	CIRC.	398	
8-105	Spring Valley	NW 163rd Ave. & NW 14th Ct.	54	RCP	CIRC.	627	
8-106	Spring Valley	NW 163rd Ave. & (N) of NW 12th St.	72	RCP	CIRC.	163	
8-107	Spring Valley	NW 163rd Ave. & (S) of NW 12th St.	48	RCP	CIRC.	150	
8-108	Spring Valley	NW 163rd Ave. & NW 11th St.	54	RCP	CIRC.	419	
8-109	Spring Valley	(W) of NW 161st Ave. & NW 12th St.	48	RCP	CIRC.	330	
8-110	Spring Valley	NW 163rd Ave. & (N) of NW 10th St.	48	RCP	CIRC.	141	
8-111	Spring Valley	NW 163rd Ave. & NW 10th St.	48	RCP	CIRC.	528	
8-112	Spring Valley	NW 163rd Ave. & (S) of NW 9th Dr.	48	RCP	CIRC.	150	
8-113	Spring Valley	NW 163rd Ave. & NW 8th Dr.	48	RCP	CIRC.	392	
8-114	Spring Valley	NW 163rd Ave. & (S) of NW 8th Dr.	30	RCP	CIRC.	166	
8-115	Westfork Commercial / Spring Valley	NW 160th Ave. & NW 8th Dr.	48	RCP	CIRC.	302	
8-116	Spring Valley	905 NW 164th Ave.	30	RCP	CIRC.	333	
8-117.1	Academic Village	(N) of Sheridan St. & Jaguar Way	38 X 60	RCP	ELLIP.	114	
8-117.2	Academic Village	(N) of Sheridan St. & Jaguar Way	38 X 60	RCP	ELLIP.	114	

TABLE II-G-2

BASIN S-8 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
8-118	Spring Valley	NW 163rd Ave. & (S) of NW 4th St.	30	RCP	CIRC.	153	
8-119	Spring Valley	355 NW 164th Ave.	30	RCP	CIRC.	351	
8-120	Academic Village	(E) of SW 172nd Ave. & (N) of Sheridan St.	60	RCP	CIRC.	105	Control Structure
8-121	Spring Valley	NW 163rd Ave. & NW 2nd Dr.	48	RCP	CIRC.	185	
8-122	Spring Valley	NW 164th Ave. & NW 2nd Dr.	24	RCP	CIRC.	370	
8-123	Spring Valley	16456 NW 13th St.	30	RCP	CIRC.	365	
8-124	Parkside at Spring Valley	NW 163rd Ave. & (S) of NW 24th St.	48	RCP	CIRC.	340	
8-125	Parkside at Spring Valley	NW 163rd Ave. & (S) of Sheridan St.	48	RCP	CIRC.	204	
8-126	Pembroke Isles	NW 169th Ave. & NW 15th St.	48	RCP	CIRC.	140	
8-127	Pembroke Isles	(E) of NW 172nd Ave. & NW 14th St.	48	RCP	CIRC.	113	
8-129	Rolling Oaks Estates	18000 SW 58th St.	48	CAP	CIRC.	100	
8-130	Rolling Oaks - Mongeotti	18091 SW 66th St.	48	RCP	CIRC.	47	
8-131	Rolling Oaks - Otero	18001 SW 66th St.	48	RCP	CIRC.	56	
8-132	Rolling Oaks - JC Freeman	Behind 18130 SW 68th Ct.	36	CMP	CIRC.	37	
8-133	Spring Valley Park/Parkside Emergency Rd.	(W) end of Spring Valley Park	48	RCP	CIRC.	60	
8-134	Muvico - Outfall	15601 Sheridan St.	48	RCP	CIRC.	60	
8-135	Stirling Acres	SW 166th Ave & SW 62nd St.	15	HDPE	CIRC.	144	
8-135.1	Stirling Acres	SW 166th Ave & SW 62nd St.	15	CMP	CIRC.	48	
8-136.1	Griffin Rd. & 172nd Ave	Griffin Rd. & SW 172nd Ave.	96	RCP	CIRC.	184	
8-136.2	Griffin Rd. & 172nd Ave	Griffin Rd. & SW 172nd Ave.	96	RCP	CIRC.	184	
8-136.3	Griffin Rd. & 172nd Ave	Griffin Rd. & SW 172nd Ave.	96	RCP	CIRC.	184	
8-137	Landmark Ranches	(E) of SW 172nd Ave. & Windsor Blvd.	72	RCP	CIRC.	136	
8-138	Green Meadows	Behind 5000 SW 166th Ave.	12	CMP	CIRC.	24	
8-139	Rolling Oaks - Dominguez	(W) of SW 180th Ter. & Stirling Rd.	48	RCP	CIRC.	44	
8-140	Rolling Oaks - Camacho	17861 SW 66th St.	48	RCP	CIRC.	53	
8-144	Rolling Oaks - Caccavale	Behind 17620 SW 65th Ct.	48	RCP	CIRC.	32	
8-145	Calusa Corners Park	(E) of Dykes Rd. & (S) of Griffin Rd.	48	RCP	CIRC.	32	
8-146	Calusa Corners Park	Dykes Rd. & (S) of Griffin Rd.	48	RCP	CIRC.	32	
8-147	Sheridan Village	NW 167th Ter. & NW 23rd St.	48	RCP/CAP	CIRC.	926	
8-148	Sheridan Village - Outfall	NW 167th Ter. & NW 21st St.	48	RCP	CIRC.	43	Control Structure
8-149	Magnolia Estates	SW 172nd Ave. & SW 61st St.	48	RCP	CIRC.	146	



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-8 CONTROL WATER ELEVATION MAP

Legend

- 3.50' NGVD
- 4.00' NGVD
- SFWMD Canal
- Water Bodies

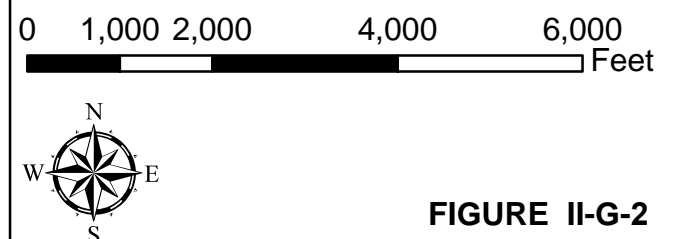
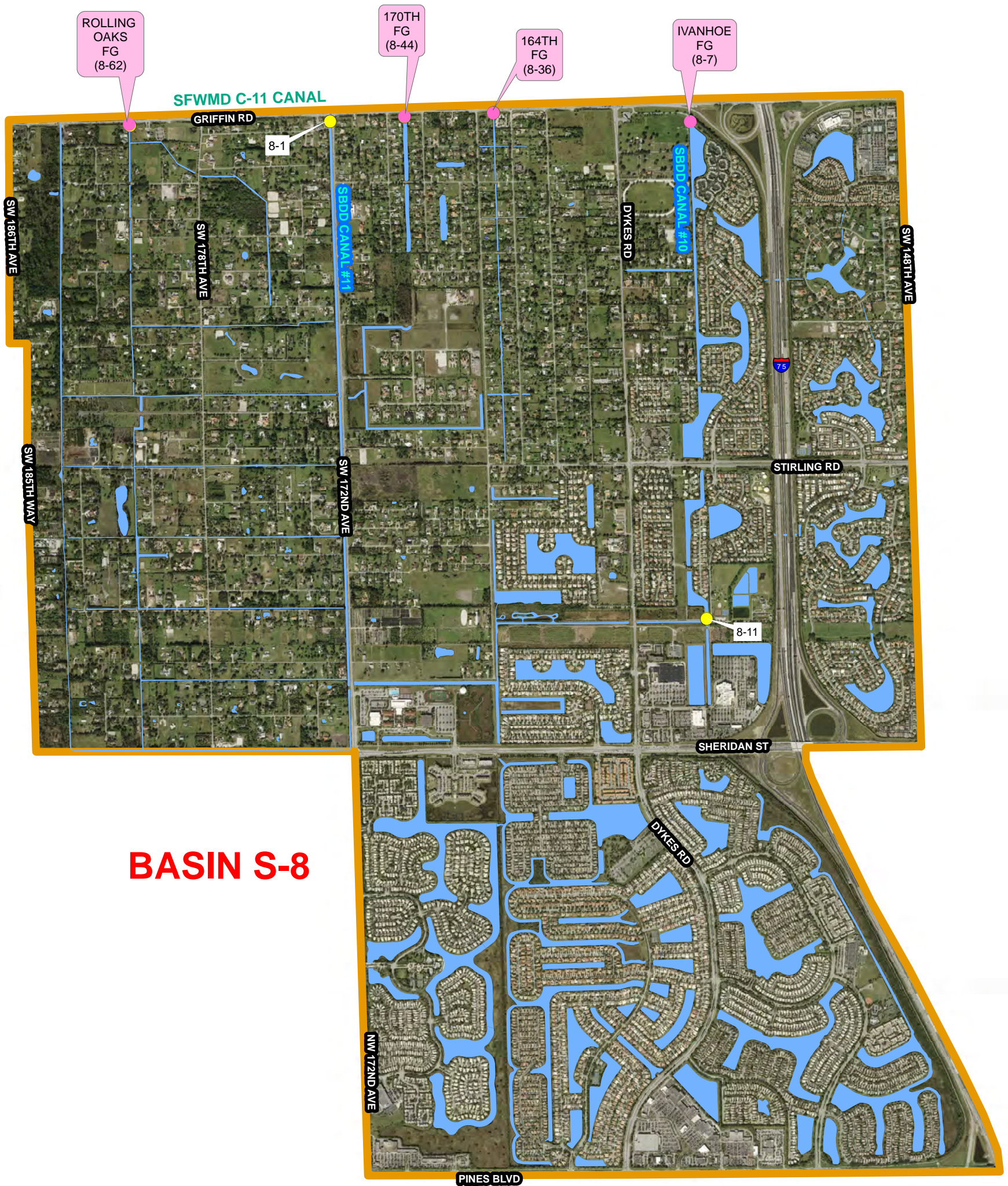


FIGURE II-G-2



BASIN S-8

**SOUTH BROWARD DRAINAGE DISTRICT
BASIN: S-8 FLOOD GATE MAP**

Legend

- Major Control Structures
- Flood Gate
- ~ SFWMD Canal
- Water Bodies

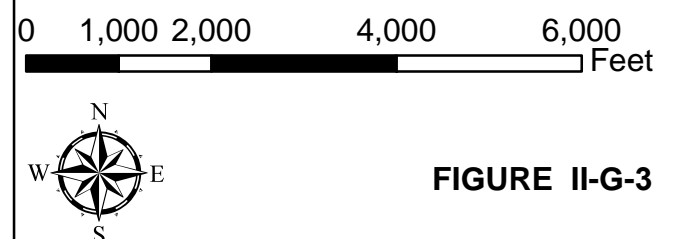
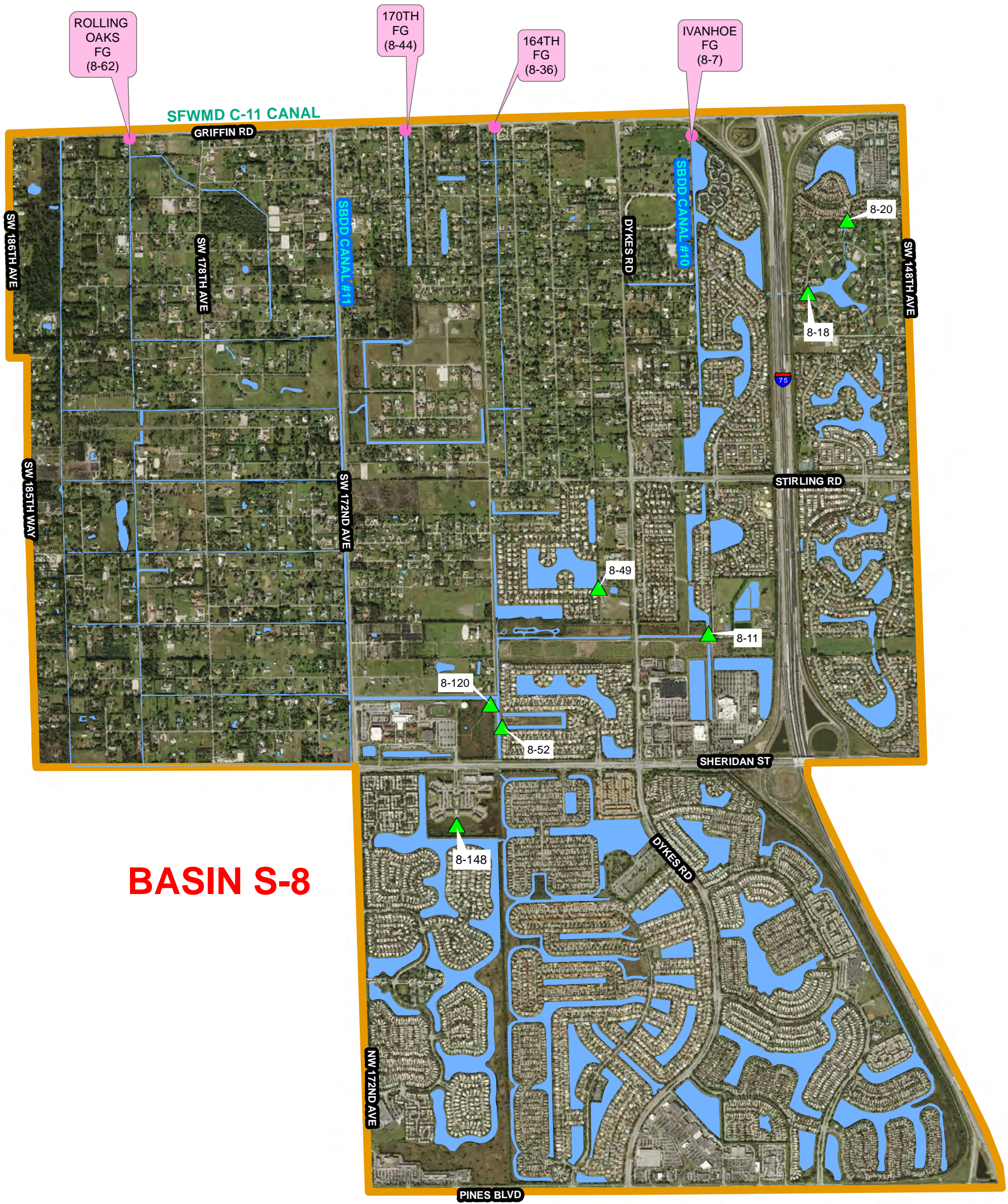


FIGURE II-G-3

TABLE II-G-3

BASIN S-8 FLOOD GATE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
8-1.4	S-8 Pump Station	17221 SW 46th St.	78" W X 54" H
8-7	Ivanhoe	Sessa's - Hawke's Bluff Ave.	78" W X 78" H
8-11	Ivanhoe - South Outfall	Hawke's Bluff Ave. & Sledgemill Rd.	120" W X 24" H
8-36	Green Meadows	Griffin Rd. & SW 164th Ter.	36" W X 36" H
8-44	Deems Ranches	Griffin Rd. & SW 170th Ave.	48" W X 48" H
8-62	Rolling Oaks	Griffin Rd. & SW 181st Ave.	60" W X 60" H



BASIN S-8

**SOUTH BROWARD DRAINAGE DISTRICT
BASIN: S-8 CONTROL STRUCTURES MAP**

Legend

- Major Control Structures
- ▲ Control Structures
- SFWMD Canal
- Water Bodies

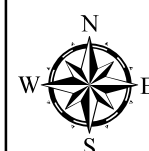
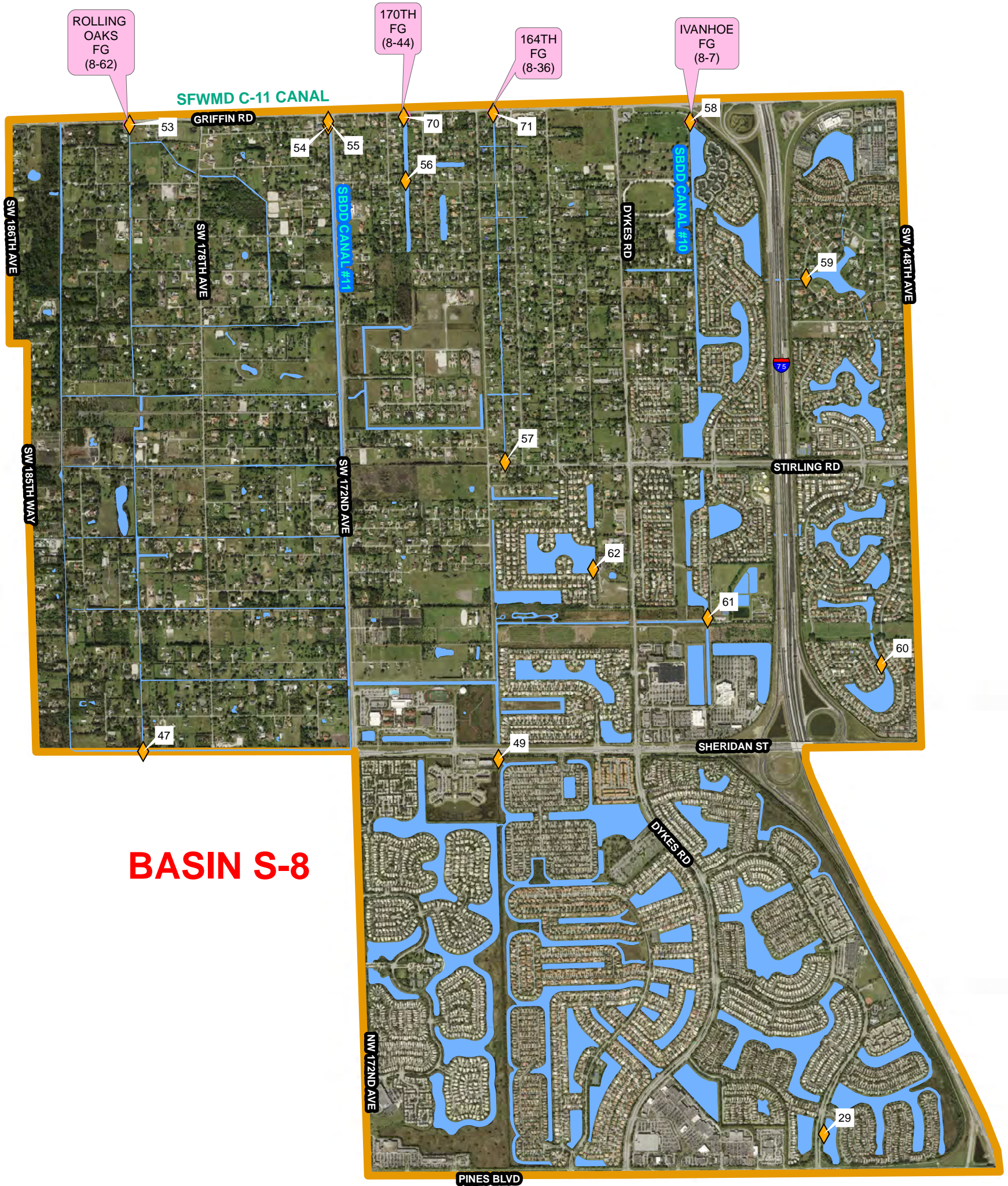


FIGURE II-G-4

TABLE II-G-4

BASIN S-8 CONTROL STRUCTURE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>General Comments</i>
8-7	Ivanhoe	Sessa's - Hawke's Bluff Ave.	78" W X 78" H
8-11	Waverly Hundred at Ivanhoe	Hawkes Bluff Ave. & FPL Crossing	
8-18	Ivanhoe Estates	5310 Saxon Circle West	
8-20	Chelsea at Ivanhoe	Behind 15090 SW 51st Ct.	Bubble-Up Structure
8-36	Green Meadows	Griffin Rd. & SW 164th Ter.	36" W X 36" H
8-44	Deems Ranches	Griffin Rd. & SW 170th Ave.	48" W X 48" H
8-49	South Broward Drainage District Headquarters	6591 SW 160th Ave.	Over-Flow Structure (USF 4155-6210)
8-52	Stoneridge Lake Estates	Behind 16595 Mariposa Cir. N	Flashboard Riser
8-62	Rolling Oaks	Griffin Rd. & SW 181st Ave.	60" W X 60" H
8-120	Academic Village	Sheridan St. & Jaguar Way	Over-Flow Structure
8-148	Sheridan Village	NW 167th Ter & NW 21st St.	Rip-Rap Weir w/ 7" x 12" Bleeder @ 3.52 NGVD



BASIN S-8

**SOUTH BROWARD DRAINAGE DISTRICT
BASIN: S-8 STAFF GAUGE MAP**

Legend





-  Staff Gauge
-  Major Control Structures
-  SFWMD Canal
-  Water Bodies

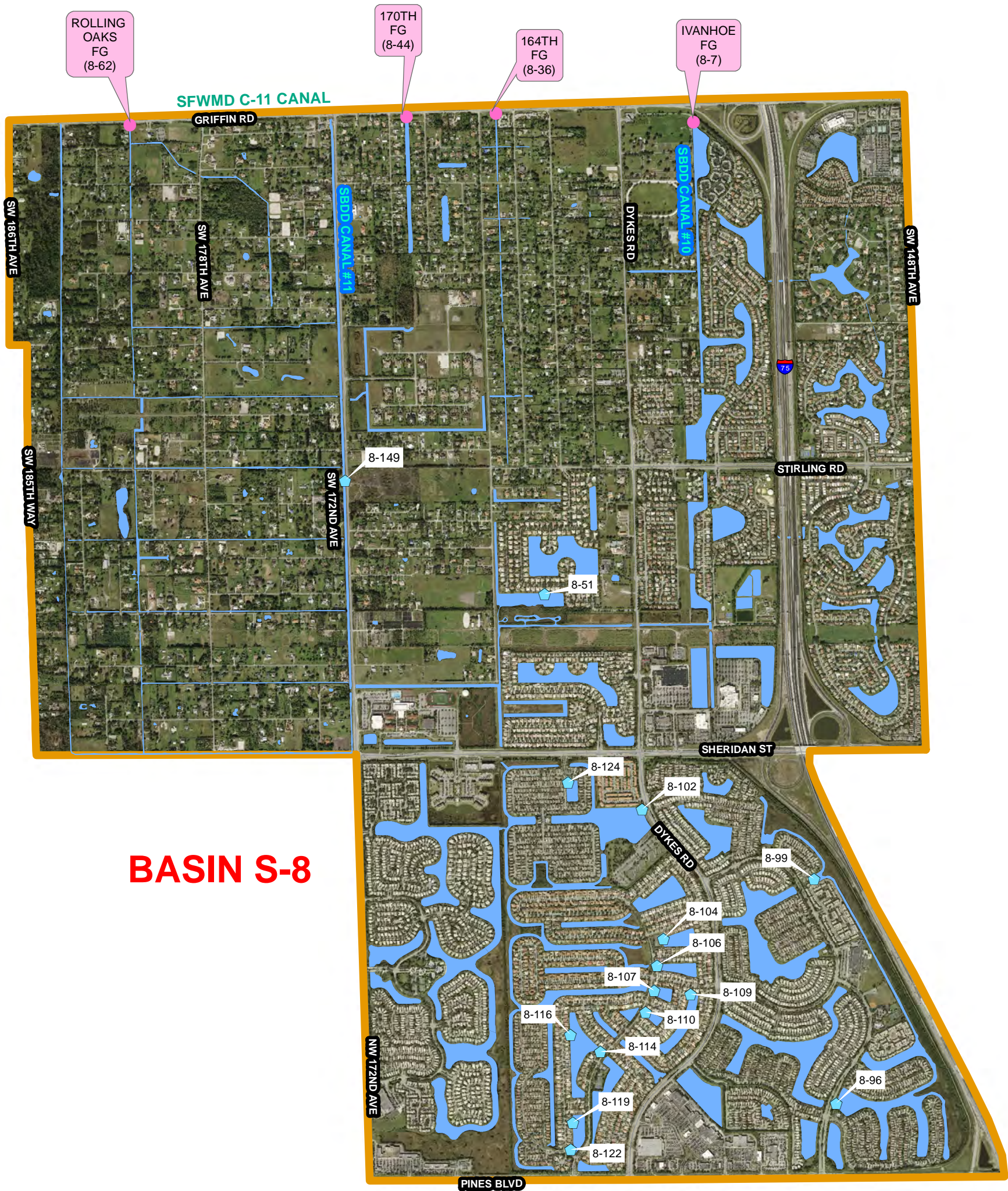


FIGURE II-G-5

TABLE II-G-5

BASIN S-8 STAFF GAUGE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
29	Towngate	NW 155th Ave. & (N) of Pines Blvd.	Water Level Recorder
47	Rolling Oaks	Sheridan St. and C-2 Canal	
49	Spring Valley Outfall	SW 166th Ave. & Sheridan St.	
53	Rolling Oaks	SW 181st Ave. & Griffin Rd.	Telemetry
54	S-8 Pump Station Upstream	(N) side of 17221 SW 46th St.	Telemetry
55	S-8 Pump Station Downstream	(S) side of 17221 SW 46th St.	Telemetry
56	Deems Ranches	SW 170th Ave. & SW 49th St.	
57	Green Meadows	SW 164th Ave. & Stirling Rd.	
58	Ivanhoe Flood Gate (N)	Hawke's Bluff Ave. & Griffin Rd.	Telemetry
59	Ivanhoe Estates	5241 Saxon Circle (W)	
60	Crossbow at Ivanhoe	Falconsgate Ave. & Archevale St.	
61	Ivanhoe Flood Gate (S)	Hawke's Bluff Ave. & Sledgemill Rd.	
62	SBDD Headquarters	6591 SW 160th Ave.	
70	Deems Ranches	SW 170th Ave. & Griffin Rd.	Telemetry
71	Green Meadows	SW 164th Ave & Griffin Rd.	Telemetry



BASIN S-8

**SOUTH BROWARD DRAINAGE DISTRICT
BASIN: S-8 FISH GUARD MAP**

Legend

- Major Control Structures
- ◆ Fish Guards
- ~ SFWMD Canal
- Water Bodies

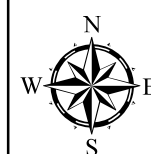
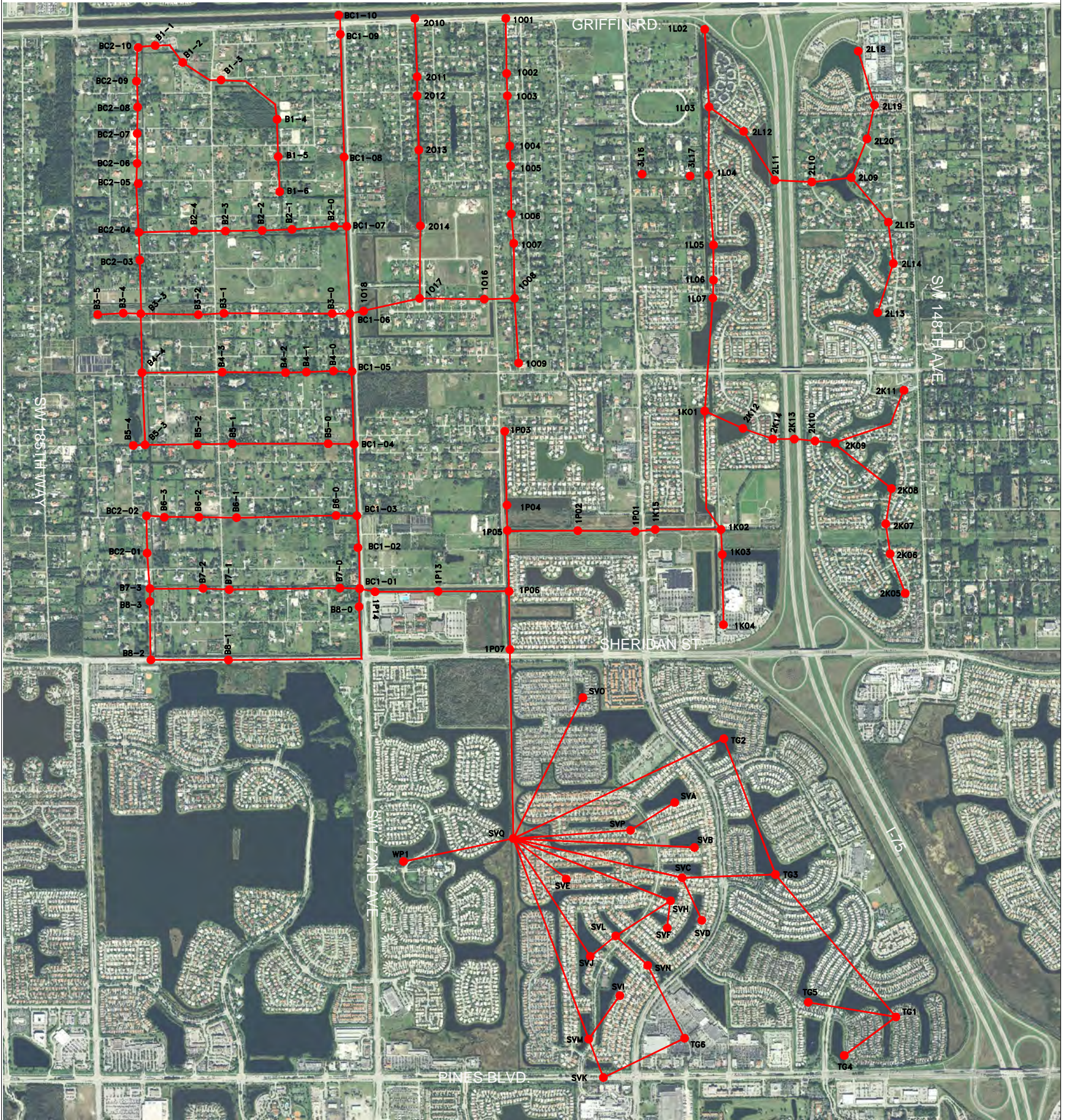


FIGURE II-G-6

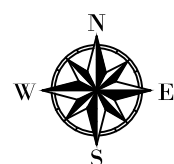
TABLE II-G-6

BASIN S-8 FISH GUARD SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>
8-51	Estates of Stirling Lakes	Erie Pl. @ South end
8-96	Towngate	NW 155th Ave. & (N) of NW 5th St.
8-99	Park Crossing at Towngate	NW 155th Ave. & NW 15th St.
8-102	Towngate / Spring Valley Park	NW 160th Ave. & (N) of NW 15th St.
8-104	Spring Valley	NW 163rd Ave. & NW 13th St. - East Side
8-106	Spring Valley	NW 163rd Ave. & NW 13th St. - East Side
8-107	Spring Valley	NW 163rd Ave. & NW 12th St. - East Side
8-109	Spring Valley	16146 NW 12th St.
8-110	Spring Valley	NW 163rd Ave. & NW 11th St. - East Side
8-114	Spring Valley	NW 163rd Ave & 8th Dr. (W)
8-116	Spring Valley	935 NW 164th Ave.
8-119	Spring Valley	355 NW 164th Ave.
8-122	Spring Valley	NW 164th Ave. & NW 2nd Dr.
8-124	Parkside at Spring Valley	NW 163rd Ave. & NW 23rd St.
8-124	Parkside at Spring Valley	NW 163rd Ave. & NW 23rd St.
8-149	Magnolia Estates	SW 172nd Ave. & SW 61st St.



BASIN 8
NODAL DIAGRAM



SCALE = N.T.S.

FIGURE II-G-8

TABLE II-G-7

BASIN S-8

BASIN MAXIMUM STAGE REPORT

10-YEAR, 3-DAY STORM

25-YEAR, 3-DAY STORM

100-YEAR, 3-DAY STORM

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
BASIN S-8 MAX STAGE REPORT
TABLE II-G-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
1K01	BASIN-S8	100YR_3DAY	73.23	6.92	8.00	0.0048	1197937	60.00	183.31	120.00	22.84
1K01	BASIN-S8	10YR_3DAY	72.99	6.11	8.00	0.0048	822277	60.00	97.18	120.00	14.61
1K01	BASIN-S8	25YR_3DAY	73.08	6.41	8.00	0.0048	967650	60.00	124.25	120.00	17.71
1K02	BASIN-S8	100YR_3DAY	72.73	6.89	8.00	0.0008	1670853	60.08	307.38	120.00	24.34
1K02	BASIN-S8	10YR_3DAY	72.67	6.10	8.00	0.0005	1116110	60.08	167.81	120.00	15.37
1K02	BASIN-S8	25YR_3DAY	72.70	6.39	8.00	0.0006	1327187	60.08	214.10	120.00	18.74
1K02A	BASIN-S8	100YR_3DAY	65.04	6.02	7.50	0.0006	31332	60.71	91.74	60.82	88.49
1K02A	BASIN-S8	10YR_3DAY	63.80	5.40	7.50	0.0007	28372	60.11	97.18	60.15	89.85
1K02A	BASIN-S8	25YR_3DAY	64.41	5.63	7.50	0.0007	29486	59.98	93.14	60.75	86.27
1K03	BASIN-S8	100YR_3DAY	62.81	6.23	7.50	0.0016	1250676	59.77	380.82	60.57	75.07
1K03	BASIN-S8	10YR_3DAY	61.71	5.69	7.50	0.0024	841617	60.25	154.44	60.11	90.31
1K03	BASIN-S8	25YR_3DAY	62.17	5.88	7.50	0.0026	987563	59.97	409.57	59.98	85.23
1K04	BASIN-S8	100YR_3DAY	62.81	6.23	7.50	0.0015	1250701	60.25	214.82	59.77	301.17
1K04	BASIN-S8	10YR_3DAY	61.71	5.69	7.50	0.0020	841660	60.25	111.24	1.03	121.14
1K04	BASIN-S8	25YR_3DAY	62.17	5.88	7.50	0.0028	987598	60.25	145.60	59.97	305.33
1K15	BASIN-S8	100YR_3DAY	65.20	6.01	7.50	0.0006	150776	60.79	89.39	61.82	79.16
1K15	BASIN-S8	10YR_3DAY	64.11	5.38	7.50	0.0006	137025	60.13	92.10	61.29	78.74
1K15	BASIN-S8	25YR_3DAY	64.56	5.62	7.50	0.0006	142176	60.00	90.67	61.47	78.43
1L02	BASIN-S8	100YR_3DAY	74.47	6.92	8.00	0.0005	2085594	60.00	243.15	0.00	39.22
1L02	BASIN-S8	10YR_3DAY	73.67	6.12	8.00	0.0003	1658053	60.00	147.04	0.00	39.22
1L02	BASIN-S8	25YR_3DAY	73.95	6.41	8.00	0.0003	1842101	60.00	179.34	0.00	39.22
1L03	BASIN-S8	100YR_3DAY	74.47	6.92	8.00	0.0005	1656691	60.27	167.04	95.98	180.00
1L03	BASIN-S8	10YR_3DAY	73.67	6.12	8.00	0.0003	1292176	59.74	73.87	60.83	51.45
1L03	BASIN-S8	25YR_3DAY	73.95	6.41	8.00	0.0003	1459672	60.41	119.01	74.18	159.06
1L04	BASIN-S8	100YR_3DAY	74.47	6.93	8.00	0.0025	98457	95.98	182.66	75.97	182.36
1L04	BASIN-S8	10YR_3DAY	73.66	6.12	8.00	0.0007	94734	60.83	71.71	113.64	114.87
1L04	BASIN-S8	25YR_3DAY	73.95	6.41	8.00	-0.0015	96186	74.99	161.16	72.31	154.73
1L05	BASIN-S8	100YR_3DAY	74.46	6.92	8.00	0.0005	2142809	60.10	307.94	58.32	56.36
1L05	BASIN-S8	10YR_3DAY	73.66	6.12	8.00	0.0003	1689514	60.88	143.44	0.98	43.45
1L05	BASIN-S8	25YR_3DAY	73.94	6.41	8.00	0.0003	1899995	60.45	210.82	78.80	45.77
1L06	BASIN-S8	100YR_3DAY	74.46	6.92	8.00	0.0019	388568	58.33	60.21	120.00	13.41
1L06	BASIN-S8	10YR_3DAY	73.66	6.12	8.00	0.0019	289876	0.98	43.45	120.00	9.00
1L06	BASIN-S8	25YR_3DAY	73.93	6.41	8.00	0.0019	335589	78.80	45.77	120.00	10.68
1L07	BASIN-S8	100YR_3DAY	73.97	6.92	8.00	0.0006	2095553	60.00	229.09	120.00	15.22
1L07	BASIN-S8	10YR_3DAY	73.42	6.12	8.00	0.0004	1488344	60.00	126.72	120.00	9.94
1L07	BASIN-S8	25YR_3DAY	73.62	6.41	8.00	0.0005	1751546	60.00	161.01	120.00	11.96
1001	BASIN-S8	100YR_3DAY	72.62	6.25	7.50	0.0005	1073701	60.50	100.39	55.84	40.59
1001	BASIN-S8	10YR_3DAY	68.97	5.66	7.50	-0.0006	815571	60.50	50.44	1.08	12.21
1001	BASIN-S8	25YR_3DAY	71.95	5.87	7.50	-0.0004	914456	60.50	66.92	117.80	50.42
1002	BASIN-S8	100YR_3DAY	72.62	6.25	7.50	0.0005	1073701	60.58	89.32	60.69	10.31
1002	BASIN-S8	10YR_3DAY	68.96	5.66	7.50	-0.0006	652564	60.67	38.06	61.12	9.48
1002	BASIN-S8	25YR_3DAY	71.95	5.87	7.50	-0.0005	850334	60.58	53.95	117.60	10.39

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-8 MAX STAGE REPORT
 TABLE II-G-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
1003	BASIN-S8	100YR_3DAY	72.49	6.20	7.50	-0.0007	962215	60.50	101.47	55.89	36.73
1003	BASIN-S8	10YR_3DAY	68.78	5.61	7.50	-0.0005	723143	60.50	54.54	1.07	15.06
1003	BASIN-S8	25YR_3DAY	70.23	5.82	7.50	-0.0004	812837	60.50	70.56	117.35	45.91
1004	BASIN-S8	100YR_3DAY	72.49	6.20	7.50	0.0008	962187	60.50	101.17	113.62	17.39
1004	BASIN-S8	10YR_3DAY	68.78	5.61	7.50	-0.0005	723101	60.50	53.27	59.45	14.84
1004	BASIN-S8	25YR_3DAY	70.23	5.82	7.50	-0.0006	812798	60.50	69.46	112.23	16.55
1005	BASIN-S8	100YR_3DAY	69.04	6.03	7.50	0.0004	898546	60.50	100.87	108.14	21.11
1005	BASIN-S8	10YR_3DAY	65.03	5.46	7.50	-0.0004	654082	60.50	52.00	59.50	19.81
1005	BASIN-S8	25YR_3DAY	66.20	5.66	7.50	0.0003	738852	60.50	68.36	118.09	26.95
1006	BASIN-S8	100YR_3DAY	69.03	6.03	7.50	0.0004	897700	60.50	104.04	56.69	25.70
1006	BASIN-S8	10YR_3DAY	65.02	5.46	7.50	-0.0004	653896	60.50	56.03	59.78	25.75
1006	BASIN-S8	25YR_3DAY	66.19	5.66	7.50	0.0003	738643	60.50	71.71	59.19	25.47
1007	BASIN-S8	100YR_3DAY	68.22	5.92	7.50	-0.0023	855164	60.50	107.20	58.84	83.93
1007	BASIN-S8	10YR_3DAY	64.56	5.37	7.50	0.0011	615434	60.50	60.07	1.08	28.76
1007	BASIN-S8	25YR_3DAY	65.02	5.56	7.50	-0.0022	699441	60.50	75.07	59.73	83.65
1008	BASIN-S8	100YR_3DAY	68.21	5.92	7.50	0.0019	1709886	60.44	207.12	58.85	57.37
1008	BASIN-S8	10YR_3DAY	64.56	5.37	7.50	0.0012	1230316	60.50	125.09	59.96	65.98
1008	BASIN-S8	25YR_3DAY	65.02	5.56	7.50	0.0026	1398449	59.73	186.37	59.78	61.56
1009	BASIN-S8	100YR_3DAY	68.21	5.92	7.50	-0.0008	854947	60.50	91.26	58.84	74.95
1009	BASIN-S8	10YR_3DAY	64.56	5.37	7.50	0.0011	615164	60.50	45.85	1.07	28.55
1009	BASIN-S8	25YR_3DAY	65.02	5.56	7.50	-0.0021	699230	60.50	60.84	59.73	74.18
1016	BASIN-S8	100YR_3DAY	77.59	5.84	7.50	0.0004	728570	60.33	124.44	59.82	68.78
1016	BASIN-S8	10YR_3DAY	81.10	5.34	7.50	0.0004	535893	60.25	105.23	60.25	102.07
1016	BASIN-S8	25YR_3DAY	78.84	5.54	7.50	0.0004	611932	60.33	105.19	60.24	100.41
1017	BASIN-S8	100YR_3DAY	77.58	5.84	7.50	0.0004	1670046	59.82	254.22	64.00	120.32
1017	BASIN-S8	10YR_3DAY	81.09	5.34	7.50	0.0003	1473496	60.00	207.98	63.95	94.53
1017	BASIN-S8	25YR_3DAY	78.84	5.54	7.50	0.0004	1551218	60.00	241.12	64.78	103.70
1018	BASIN-S8	100YR_3DAY	77.52	5.84	7.50	0.0004	729250	60.56	150.97	64.97	125.95
1018	BASIN-S8	10YR_3DAY	81.08	5.34	7.50	0.0003	535592	61.54	103.67	64.56	98.39
1018	BASIN-S8	25YR_3DAY	78.80	5.54	7.50	0.0004	612013	60.96	119.49	64.71	108.23
1P01	BASIN-S8	100YR_3DAY	77.61	5.97	7.50	0.0005	498591	60.00	137.38	60.07	75.94
1P01	BASIN-S8	10YR_3DAY	75.22	5.36	7.50	0.0005	377537	60.19	97.17	61.25	76.10
1P01	BASIN-S8	25YR_3DAY	76.65	5.58	7.50	0.0005	422574	60.17	107.04	61.66	73.43
1P02	BASIN-S8	100YR_3DAY	77.60	5.97	7.50	0.0005	372954	60.08	132.07	60.13	90.40
1P02	BASIN-S8	10YR_3DAY	75.21	5.36	7.50	0.0004	270265	60.79	86.63	61.12	75.09
1P02	BASIN-S8	25YR_3DAY	76.61	5.58	7.50	0.0005	308461	60.31	98.80	60.37	75.21
1P03	BASIN-S8	100YR_3DAY	77.75	5.96	7.50	0.0005	664475	60.17	93.77	59.77	29.72
1P03	BASIN-S8	10YR_3DAY	75.17	5.36	7.50	0.0005	463963	60.25	47.29	60.25	44.83
1P03	BASIN-S8	25YR_3DAY	76.55	5.58	7.50	0.0006	538697	60.25	62.58	60.07	50.83
1P04	BASIN-S8	100YR_3DAY	77.75	5.96	7.50	0.0005	2747222	60.00	335.71	90.58	21.08
1P04	BASIN-S8	10YR_3DAY	75.20	5.36	7.50	0.0003	2156315	60.00	219.08	67.19	17.95

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-8 MAX STAGE REPORT
 TABLE II-G-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
1P04	BASIN-S8	25YR_3DAY	76.67	5.58	7.50	0.0004	2376554	60.00	274.95	90.01	20.51
1P05	BASIN-S8	100YR_3DAY	77.58	5.97	7.50	0.0005	389785	60.17	111.18	66.48	87.13
1P05	BASIN-S8	10YR_3DAY	75.19	5.36	7.50	0.0004	275448	64.02	72.03	64.21	70.36
1P05	BASIN-S8	25YR_3DAY	76.58	5.58	7.50	0.0005	317966	64.20	76.51	65.38	75.99
1P06	BASIN-S8	100YR_3DAY	77.55	5.96	7.50	0.0005	2645532	60.50	545.92	64.57	361.56
1P06	BASIN-S8	10YR_3DAY	75.04	5.35	7.50	0.0005	1846237	61.61	291.72	64.48	271.27
1P06	BASIN-S8	25YR_3DAY	76.25	5.58	7.50	0.0005	2143065	60.67	376.72	64.52	308.28
1P07	BASIN-S8	100YR_3DAY	77.54	5.97	7.50	0.0005	910338	60.53	318.87	63.19	255.62
1P07	BASIN-S8	10YR_3DAY	74.22	5.36	7.50	0.0007	634862	62.88	191.35	67.02	190.89
1P07	BASIN-S8	25YR_3DAY	75.03	5.59	7.50	0.0006	737489	62.12	227.31	64.07	217.05
1P08	BASIN-S8	100YR_3DAY	72.57	6.15	7.50	0.0004	1066211	60.50	102.67	56.42	4.97
1P08	BASIN-S8	10YR_3DAY	68.74	5.55	7.50	-0.0003	782977	60.50	51.58	59.61	4.59
1P08	BASIN-S8	25YR_3DAY	71.46	5.76	7.50	-0.0004	887552	60.50	68.44	117.10	5.09
1P09	BASIN-S8	100YR_3DAY	72.57	6.15	7.50	0.0004	1066115	60.50	105.56	56.43	9.94
1P09	BASIN-S8	10YR_3DAY	68.73	5.55	7.50	0.0003	782761	60.50	53.86	59.61	9.17
1P09	BASIN-S8	25YR_3DAY	71.48	5.76	7.50	-0.0003	887382	60.50	70.97	117.06	10.10
1P10	BASIN-S8	100YR_3DAY	72.56	6.10	7.50	0.0004	1040246	60.50	108.39	56.44	15.46
1P10	BASIN-S8	10YR_3DAY	68.49	5.50	7.50	0.0003	751563	60.50	56.14	59.61	14.86
1P10	BASIN-S8	25YR_3DAY	72.43	5.71	7.50	0.0003	857844	60.50	73.47	58.64	15.26
1P11	BASIN-S8	100YR_3DAY	72.57	6.10	7.50	0.0004	1152711	60.50	120.64	57.08	22.48
1P11	BASIN-S8	10YR_3DAY	68.50	5.49	7.50	0.0003	831086	60.50	65.81	59.72	22.22
1P11	BASIN-S8	25YR_3DAY	72.47	5.71	7.50	0.0003	949777	60.50	83.71	59.09	22.45
1P12	BASIN-S8	100YR_3DAY	77.54	5.96	7.50	0.0005	852787	60.25	119.94	59.73	43.26
1P12	BASIN-S8	10YR_3DAY	75.18	5.35	7.50	0.0004	593642	60.25	70.17	60.25	67.10
1P12	BASIN-S8	25YR_3DAY	76.50	5.58	7.50	0.0005	689831	60.25	84.31	60.05	68.60
1P13	BASIN-S8	100YR_3DAY	77.53	5.96	7.50	0.0005	554244	64.44	385.86	65.92	384.38
1P13	BASIN-S8	10YR_3DAY	75.20	5.35	7.50	0.0004	410897	64.41	293.03	65.05	292.05
1P13	BASIN-S8	25YR_3DAY	76.51	5.58	7.50	0.0005	464110	64.44	330.36	65.42	329.20
1P14	BASIN-S8	100YR_3DAY	77.52	5.96	7.50	0.0005	916035	60.90	405.02	64.99	391.21
1P14	BASIN-S8	10YR_3DAY	75.41	5.35	7.50	0.0004	644023	64.33	298.50	64.91	296.58
1P14	BASIN-S8	25YR_3DAY	76.76	5.58	7.50	-0.0009	744967	64.30	337.20	65.07	334.45
2K05	BASIN-S8	100YR_3DAY	78.27	6.96	8.00	0.0007	1627493	60.00	221.11	62.25	7.82
2K05	BASIN-S8	10YR_3DAY	76.02	6.12	8.00	0.0004	1156682	60.00	132.21	61.51	7.13
2K05	BASIN-S8	25YR_3DAY	76.67	6.43	8.00	0.0005	1353839	60.00	162.06	61.71	7.39
2K06	BASIN-S8	100YR_3DAY	78.12	6.96	8.00	0.0007	379201	60.00	62.19	64.38	3.86
2K06	BASIN-S8	10YR_3DAY	75.97	6.12	8.00	0.0004	283888	60.00	35.55	63.39	3.75
2K06	BASIN-S8	25YR_3DAY	76.57	6.43	8.00	0.0004	327330	60.00	44.25	63.73	3.80
2K07	BASIN-S8	100YR_3DAY	77.03	6.96	8.00	0.0007	811998	60.00	129.92	61.44	3.18
2K07	BASIN-S8	10YR_3DAY	75.42	6.12	8.00	0.0004	611933	60.00	73.73	61.06	2.99
2K07	BASIN-S8	25YR_3DAY	75.84	6.43	8.00	0.0005	705635	60.00	92.49	61.16	3.12
2K08	BASIN-S8	100YR_3DAY	75.73	6.97	8.00	0.0007	637369	60.00	115.75	60.24	3.45

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-8 MAX STAGE REPORT
 TABLE II-G-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
2K08	BASIN-S8	10YR_3DAY	74.39	6.12	8.00	0.0004	501446	60.00	65.73	60.21	2.16
2K08	BASIN-S8	25YR_3DAY	74.70	6.43	8.00	0.0004	565249	60.00	82.46	60.22	2.68
2K09	BASIN-S8	100YR_3DAY	72.58	7.00	8.00	0.0005	1799808	60.00	216.30	120.00	4.29
2K09	BASIN-S8	10YR_3DAY	72.67	6.13	8.00	0.0003	1380376	60.00	127.82	120.00	2.83
2K09	BASIN-S8	25YR_3DAY	72.63	6.45	8.00	0.0004	1578260	60.00	157.57	120.00	3.39
2K10	BASIN-S8	100YR_3DAY	64.27	7.01	8.00	0.0008	271658	60.00	36.01	120.00	4.52
2K10	BASIN-S8	10YR_3DAY	62.93	6.16	8.00	0.0005	194054	60.00	13.98	118.19	2.96
2K10	BASIN-S8	25YR_3DAY	63.35	6.47	8.00	0.0006	231361	60.00	20.75	120.00	3.56
2K11	BASIN-S8	100YR_3DAY	72.17	7.00	8.00	0.0010	155567	60.00	54.72	60.28	8.59
2K11	BASIN-S8	10YR_3DAY	72.68	6.13	8.00	0.0006	116758	60.00	35.61	60.24	6.78
2K11	BASIN-S8	25YR_3DAY	72.63	6.45	8.00	0.0007	124947	60.00	42.11	60.24	7.44
2K12	BASIN-S8	100YR_3DAY	72.98	6.93	8.00	0.0007	1229156	60.00	215.24	64.03	23.07
2K12	BASIN-S8	10YR_3DAY	72.91	6.12	8.00	0.0004	938782	60.00	135.95	63.28	20.24
2K12	BASIN-S8	25YR_3DAY	72.94	6.41	8.00	0.0005	1062254	60.00	163.12	63.55	21.30
2K13	BASIN-S8	100YR_3DAY	62.77	7.07	8.00	0.0011	1123926	60.25	287.95	61.12	22.57
2K13	BASIN-S8	10YR_3DAY	62.25	6.24	8.00	0.0007	752175	60.25	172.75	60.66	22.82
2K13	BASIN-S8	25YR_3DAY	62.47	6.55	8.00	0.0008	903163	60.25	212.17	60.79	22.51
2K14	BASIN-S8	100YR_3DAY	63.50	6.99	8.00	0.0009	8809	61.12	22.57	61.31	21.88
2K14	BASIN-S8	10YR_3DAY	62.60	6.15	8.00	0.0006	8809	60.66	22.82	60.95	21.81
2K14	BASIN-S8	25YR_3DAY	62.82	6.46	8.00	0.0007	8809	60.79	22.51	61.08	21.64
2L09	BASIN-S8	100YR_3DAY	73.64	6.94	8.00	0.0004	3168228	60.50	274.39	120.00	4.79
2L09	BASIN-S8	10YR_3DAY	73.39	6.12	8.00	0.0002	2417914	60.50	142.89	120.00	3.55
2L09	BASIN-S8	25YR_3DAY	73.44	6.42	8.00	0.0003	2765030	60.50	187.38	120.00	4.05
2L10	BASIN-S8	100YR_3DAY	73.47	6.94	8.00	0.0007	8735	120.00	4.79	0.27	5.07
2L10	BASIN-S8	10YR_3DAY	73.34	6.12	8.00	0.0007	8735	120.00	3.55	0.27	5.07
2L10	BASIN-S8	25YR_3DAY	73.43	6.42	8.00	0.0005	8735	120.00	4.05	0.90	6.13
2L11	BASIN-S8	100YR_3DAY	73.37	6.94	8.00	-0.0028	1195043	60.42	257.09	61.17	50.51
2L11	BASIN-S8	10YR_3DAY	73.30	6.12	8.00	-0.0050	757902	60.42	146.18	60.71	52.28
2L11	BASIN-S8	25YR_3DAY	73.43	6.42	8.00	-0.0050	933274	60.42	184.69	60.94	50.16
2L12	BASIN-S8	100YR_3DAY	73.72	6.93	8.00	0.0005	1448737	60.50	186.48	62.99	28.60
2L12	BASIN-S8	10YR_3DAY	73.40	6.12	8.00	0.0003	1100760	60.00	135.80	61.92	28.12
2L12	BASIN-S8	25YR_3DAY	73.60	6.42	8.00	0.0004	1262672	60.50	146.99	62.40	28.01
2L13	BASIN-S8	100YR_3DAY	100.44	6.86	8.00	0.0007	2287215	60.00	342.83	61.80	10.69
2L13	BASIN-S8	10YR_3DAY	97.20	6.05	8.00	0.0003	1715189	60.00	200.22	61.33	8.72
2L13	BASIN-S8	25YR_3DAY	98.83	6.35	8.00	0.0004	1954432	60.00	248.00	61.49	9.53
2L14	BASIN-S8	100YR_3DAY	100.44	6.86	8.00	0.0006	1068905	60.00	162.51	60.32	4.03
2L14	BASIN-S8	10YR_3DAY	97.20	6.05	8.00	0.0003	809363	60.00	89.26	60.28	2.70
2L14	BASIN-S8	25YR_3DAY	98.83	6.35	8.00	0.0004	924199	60.00	113.86	60.31	3.27
2L15	BASIN-S8	100YR_3DAY	74.09	6.91	8.00	0.0004	8721	60.32	4.03	60.31	2.78
2L15	BASIN-S8	10YR_3DAY	73.94	6.09	8.00	0.0002	8721	60.28	2.70	60.27	1.68
2L15	BASIN-S8	25YR_3DAY	73.97	6.39	8.00	0.0003	8721	60.31	3.27	60.30	2.14

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-8 MAX STAGE REPORT
 TABLE II-G-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
2L18	BASIN-S8	100YR_3DAY	72.36	6.96	8.00	0.0009	1146974	60.00	263.44	60.54	22.67
2L18	BASIN-S8	10YR_3DAY	72.51	6.13	8.00	0.0005	835253	60.00	168.26	60.93	15.99
2L18	BASIN-S8	25YR_3DAY	72.43	6.43	8.00	0.0006	921180	60.00	200.67	60.68	18.85
2L19	BASIN-S8	100YR_3DAY	72.56	6.96	8.00	0.0007	22165	60.54	22.67	60.75	19.65
2L19	BASIN-S8	10YR_3DAY	72.71	6.13	8.00	0.0004	18844	60.93	15.99	61.12	14.74
2L19	BASIN-S8	25YR_3DAY	72.62	6.43	8.00	0.0005	20051	60.68	18.85	60.86	16.89
2L20	BASIN-S8	100YR_3DAY	72.60	6.96	8.00	0.0007	22121	60.75	19.65	61.26	17.29
2L20	BASIN-S8	10YR_3DAY	72.86	6.12	8.00	0.0003	18801	61.12	14.74	61.40	13.30
2L20	BASIN-S8	25YR_3DAY	72.71	6.43	8.00	0.0005	20006	60.86	16.89	61.32	15.01
2O10	BASIN-S8	100YR_3DAY	78.14	5.83	7.50	0.0016	845402	60.50	91.26	59.90	280.33
2O10	BASIN-S8	10YR_3DAY	81.08	5.34	7.50	0.0011	632011	60.50	45.85	1.08	98.41
2O10	BASIN-S8	25YR_3DAY	79.04	5.54	7.50	-0.0035	717904	60.50	60.84	60.17	280.86
2O11	BASIN-S8	100YR_3DAY	78.14	5.83	7.50	0.0004	1103055	59.90	356.84	63.87	19.25
2O11	BASIN-S8	10YR_3DAY	81.08	5.34	7.50	0.0003	878995	1.08	98.42	63.67	12.38
2O11	BASIN-S8	25YR_3DAY	79.04	5.54	7.50	0.0005	969179	60.17	340.16	63.67	14.95
2O12	BASIN-S8	100YR_3DAY	77.68	5.84	7.50	0.0016	848970	60.57	95.73	59.89	266.42
2O12	BASIN-S8	10YR_3DAY	81.08	5.34	7.50	0.0012	632029	60.74	46.74	1.08	95.17
2O12	BASIN-S8	25YR_3DAY	78.89	5.54	7.50	-0.0022	718256	60.67	61.87	60.35	281.58
2O13	BASIN-S8	100YR_3DAY	77.69	5.84	7.50	0.0004	1863317	59.89	390.80	62.82	47.48
2O13	BASIN-S8	10YR_3DAY	81.07	5.34	7.50	0.0003	1471521	60.90	97.09	63.28	29.60
2O13	BASIN-S8	25YR_3DAY	78.89	5.54	7.50	0.0004	1627246	60.35	396.73	62.92	36.01
2O14	BASIN-S8	100YR_3DAY	77.61	5.84	7.50	0.0004	753886	60.75	105.14	61.80	58.03
2O14	BASIN-S8	10YR_3DAY	81.09	5.34	7.50	0.0003	560928	61.21	48.90	62.71	35.57
2O14	BASIN-S8	25YR_3DAY	78.86	5.54	7.50	0.0004	637490	60.88	70.29	62.43	43.55
2O15	BASIN-S8	100YR_3DAY	77.59	5.84	7.50	0.0005	818391	60.50	91.26	59.82	25.65
2O15	BASIN-S8	10YR_3DAY	81.09	5.34	7.50	0.0004	598637	60.50	45.85	60.51	44.06
2O15	BASIN-S8	25YR_3DAY	78.84	5.54	7.50	0.0005	685535	60.50	60.84	60.19	44.85
3L16	BASIN-S8	100YR_3DAY	74.89	6.92	8.00	0.0016	641940	60.17	78.15	58.54	5.57
3L16	BASIN-S8	10YR_3DAY	73.85	6.12	8.00	0.0016	469099	60.25	39.41	60.20	12.21
3L16	BASIN-S8	25YR_3DAY	74.33	6.41	8.00	0.0016	549418	60.25	52.15	59.88	9.58
3L17	BASIN-S8	100YR_3DAY	74.89	6.92	8.00	0.0048	641967	60.25	81.52	58.53	11.24
3L17	BASIN-S8	10YR_3DAY	73.84	6.12	8.00	0.0048	469124	60.25	51.54	60.04	24.85
3L17	BASIN-S8	25YR_3DAY	74.33	6.41	8.00	0.0048	549445	60.25	61.25	59.86	19.51
B1-1	BASIN-S8	100YR_3DAY	106.80	5.53	7.50	0.0002	584946	59.92	24.54	120.00	8.33
B1-1	BASIN-S8	10YR_3DAY	116.83	4.88	7.50	0.0001	472630	59.92	15.42	120.00	4.23
B1-1	BASIN-S8	25YR_3DAY	112.51	5.10	7.50	0.0001	516181	59.92	18.31	120.00	5.76
B1-2	BASIN-S8	100YR_3DAY	106.88	5.53	7.50	0.0002	198062	120.00	7.27	120.00	7.45
B1-2	BASIN-S8	10YR_3DAY	116.92	4.88	7.50	0.0001	160462	59.92	4.97	120.00	3.83
B1-2	BASIN-S8	25YR_3DAY	112.60	5.10	7.50	0.0001	175027	59.92	5.67	120.00	5.19
B1-3	BASIN-S8	100YR_3DAY	109.01	5.55	7.50	0.0002	1178390	60.00	50.26	120.00	7.22
B1-3	BASIN-S8	10YR_3DAY	118.69	4.89	7.50	0.0001	949250	60.00	32.03	120.00	3.76
B1-3	BASIN-S8	25YR_3DAY	114.50	5.11	7.50	0.0001	1036904	59.94	38.11	120.00	5.06

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Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
B1-4	BASIN-S8	100YR_3DAY	109.15	5.55	7.50	0.0002	1051975	60.00	46.81	120.00	5.23
B1-4	BASIN-S8	10YR_3DAY	118.91	4.89	7.50	0.0001	847935	60.00	29.65	120.00	2.73
B1-4	BASIN-S8	25YR_3DAY	114.69	5.11	7.50	0.0001	925901	60.00	35.24	120.00	3.67
B1-5	BASIN-S8	100YR_3DAY	109.61	5.56	7.50	0.0002	1015337	60.00	46.07	120.00	3.44
B1-5	BASIN-S8	10YR_3DAY	119.28	4.89	7.50	0.0001	813403	60.00	28.89	120.00	1.80
B1-5	BASIN-S8	25YR_3DAY	115.09	5.11	7.50	0.0001	890481	60.00	34.47	120.00	2.42
B1-6	BASIN-S8	100YR_3DAY	109.67	5.56	7.50	0.0002	1015513	60.00	45.35	120.00	1.71
B1-6	BASIN-S8	10YR_3DAY	119.33	4.89	7.50	0.0001	813490	59.92	28.18	120.00	0.89
B1-6	BASIN-S8	25YR_3DAY	115.14	5.11	7.50	0.0001	890573	59.92	33.73	120.00	1.20
B2-0	BASIN-S8	100YR_3DAY	77.61	5.50	7.50	0.0003	294530	99.37	14.64	101.85	15.11
B2-0	BASIN-S8	10YR_3DAY	83.36	4.98	7.50	0.0001	252539	120.00	7.05	120.00	7.35
B2-0	BASIN-S8	25YR_3DAY	81.00	5.17	7.50	0.0002	267846	119.22	9.51	119.50	9.92
B2-1	BASIN-S8	100YR_3DAY	78.62	5.48	7.50	0.0003	306866	60.00	13.82	80.01	3.41
B2-1	BASIN-S8	10YR_3DAY	84.01	4.97	7.50	0.0001	263200	60.00	8.16	90.01	2.17
B2-1	BASIN-S8	25YR_3DAY	81.67	5.15	7.50	0.0002	279640	60.00	9.93	87.32	2.56
B2-2	BASIN-S8	100YR_3DAY	79.02	5.47	7.50	0.0003	303185	76.05	20.75	77.66	16.58
B2-2	BASIN-S8	10YR_3DAY	84.56	4.95	7.50	0.0001	258719	78.20	16.03	80.68	14.17
B2-2	BASIN-S8	25YR_3DAY	82.30	5.13	7.50	0.0002	275875	76.52	18.51	79.00	15.77
B2-3	BASIN-S8	100YR_3DAY	84.25	5.43	7.50	0.0004	286239	60.00	46.47	60.25	21.79
B2-3	BASIN-S8	10YR_3DAY	89.45	4.86	7.50	0.0002	235156	60.00	23.46	81.62	12.40
B2-3	BASIN-S8	25YR_3DAY	86.83	5.06	7.50	0.0003	257293	60.00	30.98	60.22	15.34
B2-4	BASIN-S8	100YR_3DAY	85.86	5.43	7.50	0.0003	472576	60.00	39.77	60.91	11.94
B2-4	BASIN-S8	10YR_3DAY	90.40	4.85	7.50	0.0002	385868	60.00	23.00	82.76	11.26
B2-4	BASIN-S8	25YR_3DAY	87.69	5.06	7.50	0.0002	423376	60.00	28.67	80.41	11.93
B3-0	BASIN-S8	100YR_3DAY	79.50	5.49	7.50	0.0002	783047	59.92	30.41	96.28	15.81
B3-0	BASIN-S8	10YR_3DAY	85.85	4.93	7.50	0.0001	656161	59.92	19.37	115.97	7.42
B3-0	BASIN-S8	25YR_3DAY	84.07	5.13	7.50	0.0002	706411	59.92	22.93	112.15	10.03
B3-1	BASIN-S8	100YR_3DAY	87.12	5.48	7.50	0.0002	969388	60.00	40.54	98.89	12.20
B3-1	BASIN-S8	10YR_3DAY	97.32	4.89	7.50	0.0001	796864	59.92	25.04	119.62	5.71
B3-1	BASIN-S8	25YR_3DAY	87.84	5.10	7.50	0.0001	866478	59.92	30.04	114.25	7.73
B3-2	BASIN-S8	100YR_3DAY	87.50	5.49	7.50	0.0002	250766	60.00	9.82	107.86	7.42
B3-2	BASIN-S8	10YR_3DAY	97.37	4.89	7.50	0.0001	207160	59.92	5.81	120.00	3.50
B3-2	BASIN-S8	25YR_3DAY	88.53	5.09	7.50	0.0001	224332	59.92	7.07	120.00	4.84
B3-3	BASIN-S8	100YR_3DAY	87.80	5.49	7.50	0.0002	250844	60.00	12.84	120.00	10.81
B3-3	BASIN-S8	10YR_3DAY	97.38	4.89	7.50	0.0001	207176	60.00	8.23	120.00	5.86
B3-3	BASIN-S8	25YR_3DAY	91.41	5.09	7.50	0.0001	224349	60.00	9.69	120.00	7.87
B3-3A	BASIN-S8	100YR_3DAY	88.48	5.50	7.50	-0.0008	5803	79.97	4.56	80.00	4.51
B3-3A	BASIN-S8	10YR_3DAY	98.39	4.90	7.50	0.0009	4072	84.95	3.87	84.97	3.84
B3-3A	BASIN-S8	25YR_3DAY	93.48	5.10	7.50	0.0012	4653	83.15	4.36	83.17	4.33
B3-4	BASIN-S8	100YR_3DAY	87.96	5.49	7.50	0.0002	251392	60.00	11.31	99.74	1.84
B3-4	BASIN-S8	10YR_3DAY	97.44	4.89	7.50	0.0001	207682	59.92	6.50	117.82	0.90

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
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Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
B3-4	BASIN-S8	25YR_3DAY	91.47	5.09	7.50	0.0001	224866	59.92	7.97	115.41	1.21
B3-5	BASIN-S8	100YR_3DAY	87.97	5.49	7.50	0.0002	251391	60.00	11.62	99.74	0.92
B3-5	BASIN-S8	10YR_3DAY	97.44	4.89	7.50	0.0001	207647	60.00	6.83	117.82	0.45
B3-5	BASIN-S8	25YR_3DAY	91.47	5.09	7.50	0.0001	224839	60.00	8.32	115.41	0.60
B4-0	BASIN-S8	100YR_3DAY	78.18	5.49	7.50	0.0002	496883	59.83	16.63	96.34	14.86
B4-0	BASIN-S8	10YR_3DAY	85.37	4.92	7.50	0.0001	415236	59.83	11.17	114.51	7.19
B4-0	BASIN-S8	25YR_3DAY	83.33	5.12	7.50	0.0002	447826	59.83	12.87	111.25	9.61
B4-1	BASIN-S8	100YR_3DAY	87.91	5.49	7.50	0.0002	870955	59.92	35.55	97.35	12.61
B4-1	BASIN-S8	10YR_3DAY	98.54	4.90	7.50	0.0001	720157	59.92	22.09	115.73	6.07
B4-1	BASIN-S8	25YR_3DAY	93.64	5.10	7.50	0.0001	778119	59.92	26.39	111.90	8.13
B4-2	BASIN-S8	100YR_3DAY	88.42	5.50	7.50	0.0002	385506	59.92	15.19	102.14	8.01
B4-2	BASIN-S8	10YR_3DAY	98.66	4.90	7.50	0.0001	318119	59.83	8.99	120.00	3.83
B4-2	BASIN-S8	25YR_3DAY	94.18	5.10	7.50	0.0001	343979	59.83	10.91	115.07	5.16
B4-3	BASIN-S8	100YR_3DAY	88.62	5.50	7.50	0.0002	385472	59.92	14.41	101.34	6.48
B4-3	BASIN-S8	10YR_3DAY	98.74	4.90	7.50	0.0001	317950	59.83	8.58	120.00	3.05
B4-3	BASIN-S8	25YR_3DAY	94.34	5.10	7.50	0.0001	343877	59.92	10.43	115.73	4.11
B4-4	BASIN-S8	100YR_3DAY	88.86	5.50	7.50	0.0002	447854	59.93	20.43	100.56	4.96
B4-4	BASIN-S8	10YR_3DAY	98.78	4.91	7.50	0.0001	378977	59.95	12.00	119.99	2.27
B4-4	BASIN-S8	25YR_3DAY	94.44	5.10	7.50	0.0001	405366	59.96	13.90	117.04	3.06
B4-5	BASIN-S8	100YR_3DAY	89.69	5.51	7.50	0.0002	375279	60.00	18.51	107.72	1.51
B4-5	BASIN-S8	10YR_3DAY	99.18	4.91	7.50	0.0001	307744	60.00	10.90	59.97	0.97
B4-5	BASIN-S8	25YR_3DAY	94.87	5.11	7.50	0.0001	333574	60.00	13.28	59.97	1.03
B4-5A	BASIN-S8	100YR_3DAY	88.98	5.50	7.50	-0.0013	5816	107.72	1.51	60.07	3.20
B4-5A	BASIN-S8	10YR_3DAY	98.86	4.91	7.50	-0.0008	4085	59.97	0.97	59.97	1.05
B4-5A	BASIN-S8	25YR_3DAY	94.46	5.11	7.50	0.0007	4665	59.97	1.03	72.31	1.67
B4-5B	BASIN-S8	100YR_3DAY	88.93	5.50	7.50	0.0029	5815	60.07	3.20	73.62	2.60
B4-5B	BASIN-S8	10YR_3DAY	98.82	4.91	7.50	-0.0022	4086	59.97	1.05	59.95	6.11
B4-5B	BASIN-S8	25YR_3DAY	94.47	5.11	7.50	-0.0023	4665	72.31	1.67	60.14	6.34
B4-5C	BASIN-S8	100YR_3DAY	88.91	5.50	7.50	-0.0024	5815	73.62	2.60	60.07	2.89
B4-5C	BASIN-S8	10YR_3DAY	98.81	4.91	7.50	0.0023	4084	59.95	6.11	59.97	0.95
B4-5C	BASIN-S8	25YR_3DAY	94.44	5.11	7.50	0.0024	4665	60.14	6.34	60.15	1.46
B5-0	BASIN-S8	100YR_3DAY	88.04	5.49	7.50	0.0002	973779	60.00	43.16	97.71	15.40
B5-0	BASIN-S8	10YR_3DAY	98.51	4.90	7.50	0.0001	804788	60.00	25.91	115.14	7.50
B5-0	BASIN-S8	25YR_3DAY	93.78	5.10	7.50	0.0001	869695	60.00	31.34	112.16	10.07
B5-1	BASIN-S8	100YR_3DAY	88.53	5.50	7.50	0.0002	975052	60.00	43.81	103.13	10.23
B5-1	BASIN-S8	10YR_3DAY	98.75	4.91	7.50	0.0001	805077	60.00	25.44	118.81	4.98
B5-1	BASIN-S8	25YR_3DAY	94.36	5.10	7.50	0.0001	870303	60.00	31.07	114.32	6.74
B5-2	BASIN-S8	100YR_3DAY	88.82	5.50	7.50	0.0002	389783	60.00	18.72	68.97	10.79
B5-2	BASIN-S8	10YR_3DAY	98.79	4.91	7.50	0.0001	321802	60.00	9.43	78.31	6.82
B5-2	BASIN-S8	25YR_3DAY	94.43	5.10	7.50	0.0001	347886	60.00	11.99	75.38	7.75
B5-3	BASIN-S8	100YR_3DAY	88.86	5.50	7.50	0.0002	482062	60.00	21.81	90.71	7.48

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Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
B5-3	BASIN-S8	10YR_3DAY	98.79	4.91	7.50	0.0001	410777	60.00	12.79	101.32	4.13
B5-3	BASIN-S8	25YR_3DAY	94.44	5.11	7.50	0.0001	437971	60.00	15.57	95.29	5.70
B5-4	BASIN-S8	100YR_3DAY	94.33	5.55	7.50	0.0002	759312	60.00	34.66	115.89	3.12
B5-4	BASIN-S8	10YR_3DAY	104.92	4.91	7.50	0.0001	617285	59.92	21.29	120.00	1.53
B5-4	BASIN-S8	25YR_3DAY	99.56	5.13	7.50	0.0002	671123	60.00	25.58	119.65	2.06
B5-4A	BASIN-S8	100YR_3DAY	90.20	5.51	7.50	0.0002	5843	115.89	3.12	115.88	3.14
B5-4A	BASIN-S8	10YR_3DAY	101.01	4.90	7.50	0.0001	4100	120.00	1.53	120.00	1.54
B5-4A	BASIN-S8	25YR_3DAY	95.84	5.11	7.50	0.0001	4691	119.65	2.06	119.68	2.08
B6-0	BASIN-S8	100YR_3DAY	87.51	5.49	7.50	0.0002	793209	60.00	35.83	100.78	13.80
B6-0	BASIN-S8	10YR_3DAY	98.22	4.91	7.50	0.0001	657694	59.98	21.71	115.88	7.20
B6-0	BASIN-S8	25YR_3DAY	93.23	5.10	7.50	0.0001	709661	60.00	26.22	112.93	9.50
B6-1	BASIN-S8	100YR_3DAY	87.84	5.50	7.50	0.0002	793790	60.00	37.01	104.83	9.98
B6-1	BASIN-S8	10YR_3DAY	98.54	4.91	7.50	0.0001	657864	59.98	22.18	118.93	5.27
B6-1	BASIN-S8	25YR_3DAY	93.52	5.11	7.50	0.0001	709944	59.97	26.91	115.05	6.96
B6-2	BASIN-S8	100YR_3DAY	88.22	5.50	7.50	0.0002	187294	59.95	13.21	67.07	6.75
B6-2	BASIN-S8	10YR_3DAY	98.57	4.91	7.50	0.0001	153987	78.70	5.78	78.77	4.75
B6-2	BASIN-S8	25YR_3DAY	93.82	5.11	7.50	0.0001	166754	75.46	6.44	75.55	5.03
B6-3	BASIN-S8	100YR_3DAY	88.85	5.50	7.50	0.0002	206667	60.00	14.20	90.54	8.24
B6-3	BASIN-S8	10YR_3DAY	98.39	4.91	7.50	0.0001	171576	59.97	7.62	59.95	5.75
B6-3	BASIN-S8	25YR_3DAY	94.17	5.11	7.50	0.0001	184948	59.97	9.36	93.72	6.25
B6-3A	BASIN-S8	100YR_3DAY	88.68	5.50	7.50	0.0036	5822	70.55	5.96	70.55	5.89
B6-3A	BASIN-S8	10YR_3DAY	98.60	4.91	7.50	-0.0027	4099	80.14	5.23	80.14	5.20
B6-3A	BASIN-S8	25YR_3DAY	94.02	5.11	7.50	-0.0027	4678	77.31	5.56	77.31	5.52
B6-4	BASIN-S8	100YR_3DAY	91.85	5.51	7.50	0.0002	376018	60.00	18.42	115.93	1.44
B6-4	BASIN-S8	10YR_3DAY	100.38	4.91	7.50	0.0001	308531	60.00	10.88	120.00	0.73
B6-4	BASIN-S8	25YR_3DAY	96.29	5.11	7.50	0.0002	334250	60.00	13.24	120.00	0.97
B6-4A	BASIN-S8	100YR_3DAY	90.18	5.51	7.50	0.0002	5829	115.93	1.44	115.90	1.46
B6-4A	BASIN-S8	10YR_3DAY	99.61	4.91	7.50	0.0001	4123	120.00	0.73	120.00	0.74
B6-4A	BASIN-S8	25YR_3DAY	95.23	5.11	7.50	0.0002	4699	120.00	0.97	120.00	0.98
B6-4B	BASIN-S8	100YR_3DAY	88.89	5.50	7.50	0.0003	5822	115.90	1.46	115.53	1.48
B6-4B	BASIN-S8	10YR_3DAY	98.39	4.91	7.50	0.0003	4119	120.00	0.74	120.00	0.75
B6-4B	BASIN-S8	25YR_3DAY	94.21	5.11	7.50	0.0003	4693	120.00	0.98	120.00	1.00
B7-0	BASIN-S8	100YR_3DAY	87.05	5.52	7.50	0.0002	315560	60.00	14.73	108.76	10.49
B7-0	BASIN-S8	10YR_3DAY	97.57	4.92	7.50	0.0001	261723	60.00	8.92	118.50	6.18
B7-0	BASIN-S8	25YR_3DAY	92.40	5.12	7.50	0.0001	282082	60.00	10.78	118.85	7.95
B7-1	BASIN-S8	100YR_3DAY	87.86	5.53	7.50	0.0002	881846	60.00	40.42	110.61	9.16
B7-1	BASIN-S8	10YR_3DAY	97.87	4.92	7.50	0.0001	725944	59.92	24.33	120.00	5.50
B7-1	BASIN-S8	25YR_3DAY	92.89	5.12	7.50	0.0001	785038	60.00	29.49	120.00	7.04
B7-2	BASIN-S8	100YR_3DAY	87.99	5.53	7.50	0.0002	298389	60.00	15.83	66.43	6.05
B7-2	BASIN-S8	10YR_3DAY	97.95	4.92	7.50	0.0001	246659	60.00	8.75	78.52	3.64
B7-2	BASIN-S8	25YR_3DAY	92.99	5.12	7.50	0.0001	266274	60.00	10.97	120.00	4.16

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-8 MAX STAGE REPORT
 TABLE II-G-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
B7-3	BASIN-S8	100YR_3DAY	88.12	5.53	7.50	0.0002	581338	60.00	28.16	65.69	6.07
B7-3	BASIN-S8	10YR_3DAY	98.05	4.92	7.50	0.0001	478641	60.00	16.12	81.76	4.19
B7-3	BASIN-S8	25YR_3DAY	93.12	5.12	7.50	0.0001	517609	60.00	19.90	79.80	4.72
B7-4	BASIN-S8	100YR_3DAY	88.23	5.53	7.50	0.0002	326468	60.00	13.94	97.77	1.37
B7-4	BASIN-S8	10YR_3DAY	98.11	4.92	7.50	0.0001	267878	60.00	8.19	109.17	0.69
B7-4	BASIN-S8	25YR_3DAY	93.20	5.12	7.50	0.0001	289802	60.00	9.98	113.85	0.90
B7-4A	BASIN-S8	100YR_3DAY	88.21	5.53	7.50	0.0002	49339	97.77	1.37	98.13	1.52
B7-4A	BASIN-S8	10YR_3DAY	98.09	4.92	7.50	0.0001	39960	109.17	0.69	109.20	0.77
B7-4A	BASIN-S8	25YR_3DAY	93.18	5.12	7.50	0.0001	43126	113.85	0.90	114.34	1.01
B8-0	BASIN-S8	100YR_3DAY	87.55	5.52	7.50	0.0005	409139	60.00	38.03	108.89	11.40
B8-0	BASIN-S8	10YR_3DAY	97.80	4.92	7.50	0.0003	339013	60.00	19.10	118.19	6.59
B8-0	BASIN-S8	25YR_3DAY	86.78	5.13	7.50	0.0003	366429	60.00	25.01	118.83	8.55
B8-1	BASIN-S8	100YR_3DAY	87.68	5.52	7.50	0.0003	533584	59.83	14.51	109.14	9.95
B8-1	BASIN-S8	10YR_3DAY	97.87	4.92	7.50	0.0002	444035	59.83	9.97	118.52	5.86
B8-1	BASIN-S8	25YR_3DAY	87.69	5.13	7.50	0.0002	478382	59.83	11.39	119.12	7.53
B8-2	BASIN-S8	100YR_3DAY	88.02	5.53	7.50	0.0002	523005	59.92	17.35	112.58	7.66
B8-2	BASIN-S8	10YR_3DAY	98.02	4.92	7.50	0.0001	434176	59.92	11.59	120.00	4.66
B8-2	BASIN-S8	25YR_3DAY	93.12	5.12	7.50	0.0001	467755	59.92	13.39	120.00	5.96
B8-3	BASIN-S8	100YR_3DAY	88.06	5.53	7.50	0.0002	209961	60.00	10.05	66.37	1.09
B8-3	BASIN-S8	10YR_3DAY	98.03	4.92	7.50	0.0001	174481	60.00	5.63	98.76	0.48
B8-3	BASIN-S8	25YR_3DAY	93.12	5.12	7.50	0.0001	187894	60.00	6.97	114.25	0.55
BC1-01	BASIN-S8	100YR_3DAY	77.51	5.92	7.50	0.0004	123555	65.64	372.78	66.14	372.61
BC1-01	BASIN-S8	10YR_3DAY	78.81	5.34	7.50	0.0004	102110	64.96	283.40	65.13	283.30
BC1-01	BASIN-S8	25YR_3DAY	78.80	5.56	7.50	0.0010	110113	65.29	319.07	65.69	318.98
BC1-02	BASIN-S8	100YR_3DAY	77.51	5.91	7.50	-0.0005	123340	66.14	373.45	66.35	373.30
BC1-02	BASIN-S8	10YR_3DAY	79.03	5.34	7.50	-0.0005	101999	65.14	283.84	65.33	283.77
BC1-02	BASIN-S8	25YR_3DAY	78.80	5.55	7.50	-0.0013	109964	65.69	319.62	65.91	319.56
BC1-03	BASIN-S8	100YR_3DAY	77.50	5.90	7.50	0.0005	122969	66.35	374.13	66.47	374.00
BC1-03	BASIN-S8	10YR_3DAY	79.53	5.34	7.50	0.0005	101938	65.33	284.32	65.48	284.27
BC1-03	BASIN-S8	25YR_3DAY	78.80	5.55	7.50	0.0011	109800	65.91	320.20	66.06	320.15
BC1-04	BASIN-S8	100YR_3DAY	77.50	5.90	7.50	0.0005	161949	66.47	374.83	66.57	374.65
BC1-04	BASIN-S8	10YR_3DAY	79.77	5.34	7.50	0.0003	139770	65.48	284.82	65.63	284.77
BC1-04	BASIN-S8	25YR_3DAY	78.80	5.55	7.50	-0.0004	148060	66.06	320.79	66.22	320.74
BC1-05	BASIN-S8	100YR_3DAY	77.50	5.90	7.50	-0.0004	161791	68.00	362.72	68.07	362.55
BC1-05	BASIN-S8	10YR_3DAY	80.02	5.34	7.50	0.0003	139740	65.82	274.77	65.93	274.76
BC1-05	BASIN-S8	25YR_3DAY	78.80	5.55	7.50	0.0003	147981	66.86	309.53	66.86	309.51
BC1-06	BASIN-S8	100YR_3DAY	77.50	5.89	7.50	-0.0006	161723	68.00	476.61	68.12	476.47
BC1-06	BASIN-S8	10YR_3DAY	80.12	5.34	7.50	0.0002	139754	65.59	363.45	65.69	363.42
BC1-06	BASIN-S8	25YR_3DAY	78.80	5.54	7.50	-0.0004	147954	66.50	406.70	66.60	406.67
BC1-07	BASIN-S8	100YR_3DAY	77.50	5.89	7.50	-0.0008	161674	90.01	483.39	90.00	485.22
BC1-07	BASIN-S8	10YR_3DAY	81.08	5.34	7.50	0.0002	139718	65.87	355.77	65.95	355.76
BC1-07	BASIN-S8	25YR_3DAY	78.80	5.54	7.50	0.0005	147933	66.86	398.70	66.86	398.67

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-8 MAX STAGE REPORT
 TABLE II-G-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
BC1-08	BASIN-S8	100YR_3DAY	77.50	5.89	7.50	-0.0014	161693	90.00	485.22	77.58	657.52
BC1-08	BASIN-S8	10YR_3DAY	80.14	5.34	7.50	-0.0008	139729	65.95	356.31	66.01	356.31
BC1-08	BASIN-S8	25YR_3DAY	78.80	5.54	7.50	-0.0006	147902	66.86	399.32	66.86	399.30
BC1-09	BASIN-S8	100YR_3DAY	77.50	5.89	7.50	-0.0802	122538	77.58	657.52	77.58	38675.00
BC1-09	BASIN-S8	10YR_3DAY	80.14	5.34	7.50	-0.0050	101838	66.01	356.86	81.09	858.07
BC1-09	BASIN-S8	25YR_3DAY	78.80	5.54	7.50	-0.0391	109579	66.86	399.94	78.80	34302.35
BC1-10	BASIN-S8	100YR_3DAY	75.00	6.00	7.50	0.3000	0	77.58	38675.00	0.00	0.00
BC1-10	BASIN-S8	10YR_3DAY	75.00	6.00	7.50	0.3000	0	81.09	858.07	0.00	0.00
BC1-10	BASIN-S8	25YR_3DAY	75.00	6.00	7.50	0.3000	0	78.80	34302.35	0.00	0.00
BC2-01	BASIN-S8	100YR_3DAY	88.41	5.52	7.50	0.0002	754139	60.00	34.76	94.39	4.44
BC2-01	BASIN-S8	10YR_3DAY	98.29	4.92	7.50	0.0001	618339	59.92	21.31	103.54	2.22
BC2-01	BASIN-S8	25YR_3DAY	93.46	5.12	7.50	0.0001	669902	60.00	25.62	99.96	2.93
BC2-02	BASIN-S8	100YR_3DAY	88.76	5.51	7.50	0.0002	376110	60.00	20.42	88.20	7.53
BC2-02	BASIN-S8	10YR_3DAY	98.39	4.91	7.50	0.0001	308679	60.00	12.15	98.42	4.45
BC2-02	BASIN-S8	25YR_3DAY	93.80	5.11	7.50	0.0001	334382	60.00	14.81	92.77	5.97
BC2-03	BASIN-S8	100YR_3DAY	88.09	5.48	7.50	0.0002	745888	60.00	36.08	120.00	8.33
BC2-03	BASIN-S8	10YR_3DAY	97.51	4.88	7.50	0.0001	607454	60.00	22.48	120.00	4.53
BC2-03	BASIN-S8	25YR_3DAY	90.95	5.09	7.50	0.0001	662932	60.00	26.86	120.00	6.09
BC2-04	BASIN-S8	100YR_3DAY	93.98	5.46	7.50	0.0002	673649	60.00	34.66	120.00	5.80
BC2-04	BASIN-S8	10YR_3DAY	108.59	4.86	7.50	0.0001	550289	60.00	21.29	120.00	3.10
BC2-04	BASIN-S8	25YR_3DAY	102.48	5.06	7.50	0.0002	600122	60.00	25.61	120.00	4.23
BC2-04A	BASIN-S8	100YR_3DAY	91.52	5.47	7.50	0.0050	5714	120.00	5.80	120.00	5.81
BC2-04A	BASIN-S8	10YR_3DAY	106.68	4.86	7.50	-0.0043	3962	120.00	3.10	120.00	3.11
BC2-04A	BASIN-S8	25YR_3DAY	89.78	5.07	7.50	0.0050	4560	120.00	4.23	120.00	4.24
BC2-05	BASIN-S8	100YR_3DAY	94.64	5.46	7.50	0.0002	568434	59.95	24.44	120.00	14.43
BC2-05	BASIN-S8	10YR_3DAY	108.96	4.86	7.50	0.0001	463019	59.92	15.11	120.00	7.23
BC2-05	BASIN-S8	25YR_3DAY	103.00	5.06	7.50	0.0002	505582	59.92	18.08	120.00	9.92
BC2-06	BASIN-S8	100YR_3DAY	101.25	5.50	7.50	0.0002	572374	59.95	24.49	120.00	13.00
BC2-06	BASIN-S8	10YR_3DAY	112.52	4.87	7.50	0.0001	463457	59.92	15.10	120.00	6.47
BC2-06	BASIN-S8	25YR_3DAY	107.74	5.08	7.50	0.0001	506569	59.92	18.09	120.00	8.91
BC2-07	BASIN-S8	100YR_3DAY	101.75	5.50	7.50	0.0002	572821	59.92	24.52	120.00	11.90
BC2-07	BASIN-S8	10YR_3DAY	113.09	4.87	7.50	0.0001	463736	59.92	15.07	120.00	5.93
BC2-07	BASIN-S8	25YR_3DAY	108.28	5.08	7.50	0.0001	506850	59.92	18.07	120.00	8.16
BC2-08	BASIN-S8	100YR_3DAY	103.72	5.51	7.50	0.0002	751637	60.00	32.04	120.00	10.83
BC2-08	BASIN-S8	10YR_3DAY	114.54	4.87	7.50	0.0001	605197	59.92	19.42	120.00	5.41
BC2-08	BASIN-S8	25YR_3DAY	109.92	5.09	7.50	0.0001	662695	59.92	23.40	120.00	7.44
BC2-09	BASIN-S8	100YR_3DAY	106.61	5.53	7.50	0.0002	390403	60.00	15.45	120.00	9.38
BC2-09	BASIN-S8	10YR_3DAY	116.63	4.88	7.50	0.0001	315790	59.92	9.12	120.00	4.65
BC2-09	BASIN-S8	25YR_3DAY	112.31	5.09	7.50	0.0001	344755	59.92	11.05	120.00	6.42
BC2-10	BASIN-S8	100YR_3DAY	106.69	5.53	7.50	0.0002	402096	59.92	16.07	120.00	8.86
BC2-10	BASIN-S8	10YR_3DAY	116.70	4.88	7.50	0.0001	327004	59.92	9.95	120.00	4.44

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
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 TABLE II-G-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
BC2-10	BASIN-S8	25YR_3DAY	112.39	5.10	7.50	0.0001	356121	59.92	11.85	120.00	6.09
SV-A	BASIN-S8	100YR_3DAY	62.07	6.16	7.50	0.0012	561372	60.00	176.47	60.86	24.54
SV-A	BASIN-S8	10YR_3DAY	66.73	5.41	7.50	0.0006	336828	60.00	106.98	60.83	17.76
SV-A	BASIN-S8	25YR_3DAY	68.01	5.68	7.50	0.0008	397750	60.00	130.44	60.84	20.93
SV-B	BASIN-S8	100YR_3DAY	68.13	6.09	7.50	0.0010	365212	60.00	109.26	60.23	33.68
SV-B	BASIN-S8	10YR_3DAY	66.16	5.40	7.50	0.0006	201515	60.00	64.38	60.21	23.33
SV-B	BASIN-S8	25YR_3DAY	67.18	5.66	7.50	0.0007	255893	60.00	79.47	60.24	28.19
SV-C	BASIN-S8	100YR_3DAY	68.15	6.11	7.50	0.0007	255433	60.00	93.52	60.14	50.84
SV-C	BASIN-S8	10YR_3DAY	66.69	5.41	7.50	0.0004	161990	60.00	52.89	60.09	23.18
SV-C	BASIN-S8	25YR_3DAY	68.04	5.68	7.50	0.0005	193677	60.00	67.18	60.24	32.84
SV-D	BASIN-S8	100YR_3DAY	68.16	6.11	7.50	0.0009	446189	60.00	120.42	60.31	23.94
SV-D	BASIN-S8	10YR_3DAY	66.82	5.41	7.50	0.0005	270346	60.00	72.19	60.21	15.83
SV-D	BASIN-S8	25YR_3DAY	68.04	5.68	7.50	0.0006	330768	60.00	88.45	60.25	19.08
SV-E	BASIN-S8	100YR_3DAY	68.15	6.09	7.50	0.0007	123222	60.00	36.52	60.06	13.81
SV-E	BASIN-S8	10YR_3DAY	66.10	5.40	7.50	0.0004	83992	60.00	21.94	60.00	5.94
SV-E	BASIN-S8	25YR_3DAY	67.06	5.66	7.50	0.0005	96878	60.00	26.86	60.01	7.97
SV-F	BASIN-S8	100YR_3DAY	68.09	6.14	7.50	0.0010	123429	60.00	41.70	60.13	17.99
SV-F	BASIN-S8	10YR_3DAY	65.62	5.44	7.50	0.0005	65675	60.00	24.50	60.10	11.97
SV-F	BASIN-S8	25YR_3DAY	66.36	5.70	7.50	0.0007	86084	60.00	30.30	60.11	14.62
SV-H	BASIN-S8	100YR_3DAY	68.09	6.14	7.50	0.0009	110704	60.00	62.67	60.14	44.19
SV-H	BASIN-S8	10YR_3DAY	65.61	5.44	7.50	0.0005	62258	60.00	39.73	60.12	29.32
SV-H	BASIN-S8	25YR_3DAY	66.35	5.70	7.50	0.0006	79363	60.00	48.36	60.14	35.47
SV-I	BASIN-S8	100YR_3DAY	67.55	6.37	7.50	0.0011	654688	60.00	173.84	68.27	6.77
SV-I	BASIN-S8	10YR_3DAY	64.83	5.62	7.50	0.0006	418976	60.00	104.19	60.72	6.37
SV-I	BASIN-S8	25YR_3DAY	65.78	5.91	7.50	0.0008	579747	60.00	127.65	60.73	7.88
SV-J	BASIN-S8	100YR_3DAY	68.04	6.29	7.50	0.0009	621158	60.00	154.20	68.59	11.52
SV-J	BASIN-S8	10YR_3DAY	65.06	5.56	7.50	0.0005	443540	60.00	95.59	66.52	10.08
SV-J	BASIN-S8	25YR_3DAY	65.88	5.84	7.50	0.0006	512634	60.00	115.77	67.57	10.78
SV-K	BASIN-S8	100YR_3DAY	64.58	6.40	7.50	0.0012	364635	60.00	88.61	60.30	23.89
SV-K	BASIN-S8	10YR_3DAY	64.01	5.66	7.50	0.0008	146376	60.00	49.10	60.20	21.16
SV-K	BASIN-S8	25YR_3DAY	64.17	5.95	7.50	0.0009	202996	60.00	61.49	60.24	23.01
SV-L	BASIN-S8	100YR_3DAY	68.02	6.29	7.50	0.0009	123560	60.00	37.25	66.90	19.92
SV-L	BASIN-S8	10YR_3DAY	64.97	5.56	7.50	0.0005	79451	60.00	24.13	64.44	18.06
SV-L	BASIN-S8	25YR_3DAY	65.73	5.84	7.50	0.0006	96644	60.00	28.83	65.15	18.97
SV-M	BASIN-S8	100YR_3DAY	65.93	6.37	7.50	0.0011	295201	60.00	95.07	60.33	12.99
SV-M	BASIN-S8	10YR_3DAY	64.23	5.64	7.50	0.0007	194138	60.00	60.61	60.37	10.44
SV-M	BASIN-S8	25YR_3DAY	64.43	5.92	7.50	0.0008	234324	60.00	72.84	60.47	11.88
SV-N	BASIN-S8	100YR_3DAY	66.08	6.34	7.50	0.0010	351524	60.00	77.11	61.45	23.76
SV-N	BASIN-S8	10YR_3DAY	64.28	5.61	7.50	0.0006	195860	60.00	47.52	61.19	25.08
SV-N	BASIN-S8	25YR_3DAY	64.63	5.90	7.50	0.0007	257735	60.00	56.67	61.00	25.40
SV-O	BASIN-S8	100YR_3DAY	68.11	6.09	7.50	0.0010	276647	60.00	94.95	60.16	32.38

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-8 MAX STAGE REPORT
 TABLE II-G-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
SV-O	BASIN-S8	10YR_3DAY	66.14	5.40	7.50	0.0006	154308	60.00	55.93	60.14	22.39
SV-O	BASIN-S8	25YR_3DAY	67.14	5.66	7.50	0.0007	194634	60.00	69.08	60.16	26.75
SV-P	BASIN-S8	100YR_3DAY	64.29	6.13	7.50	0.0011	435056	60.00	138.23	60.32	38.54
SV-P	BASIN-S8	10YR_3DAY	66.58	5.41	7.50	0.0006	238819	60.00	82.55	60.33	29.22
SV-P	BASIN-S8	25YR_3DAY	68.01	5.67	7.50	0.0008	303444	60.00	100.40	60.40	33.75
SV-Q	BASIN-S8	100YR_3DAY	68.19	6.09	7.50	0.0007	7279217	60.00	1378.29	68.01	247.46
SV-Q	BASIN-S8	10YR_3DAY	66.08	5.40	7.50	0.0004	4952269	60.00	828.91	67.21	186.49
SV-Q	BASIN-S8	25YR_3DAY	67.05	5.66	7.50	0.0005	5735498	60.00	1002.92	64.06	211.45
TG-1	BASIN-S8	100YR_3DAY	72.85	6.41	7.50	0.0007	5970781	60.00	820.58	120.00	40.18
TG-1	BASIN-S8	10YR_3DAY	72.29	5.68	7.50	0.0004	4180528	60.00	510.62	104.25	26.39
TG-1	BASIN-S8	25YR_3DAY	72.51	5.97	7.50	0.0004	4880237	60.00	617.25	109.01	32.45
TG-2	BASIN-S8	100YR_3DAY	68.58	6.20	7.50	0.0010	1680467	60.00	326.36	60.48	45.19
TG-2	BASIN-S8	10YR_3DAY	68.22	5.48	7.50	0.0006	790303	60.00	195.22	60.71	39.79
TG-2	BASIN-S8	25YR_3DAY	68.32	5.75	7.50	0.0008	1069766	60.00	238.58	60.61	43.93
TG-3	BASIN-S8	100YR_3DAY	70.49	6.23	7.50	0.0007	2173566	60.00	304.14	112.46	47.46
TG-3	BASIN-S8	10YR_3DAY	68.72	5.50	7.50	0.0004	1400984	60.00	185.53	71.26	32.19
TG-3	BASIN-S8	25YR_3DAY	69.01	5.78	7.50	0.0005	1691927	60.00	225.73	99.31	38.82
TG-4	BASIN-S8	100YR_3DAY	72.85	6.41	7.50	0.0008	374330	60.00	88.52	60.13	24.66
TG-4	BASIN-S8	10YR_3DAY	72.28	5.68	7.50	0.0004	249391	60.00	53.45	60.12	18.24
TG-4	BASIN-S8	25YR_3DAY	72.52	5.97	7.50	0.0005	298388	60.00	65.31	60.13	21.55
TG-5	BASIN-S8	100YR_3DAY	72.41	6.47	7.50	0.0007	4349777	60.42	501.73	61.53	32.31
TG-5	BASIN-S8	10YR_3DAY	72.08	5.72	7.50	0.0004	2387235	60.00	309.62	61.52	33.53
TG-5	BASIN-S8	25YR_3DAY	72.15	6.02	7.50	0.0005	3155271	60.00	372.90	61.53	33.81
TG-6	BASIN-S8	100YR_3DAY	64.07	6.43	7.50	0.0010	1311339	60.42	184.88	62.25	34.82
TG-6	BASIN-S8	10YR_3DAY	62.89	5.69	7.50	0.0006	775217	60.50	118.42	61.70	34.03
TG-6	BASIN-S8	25YR_3DAY	63.24	5.98	7.50	0.0007	1039125	60.42	141.07	61.93	34.00
WP-1	BASIN-S8	100YR_3DAY	68.14	6.11	7.50	0.0007	9365793	60.00	1661.58	60.05	82.28
WP-1	BASIN-S8	10YR_3DAY	66.30	5.41	7.50	0.0004	6183943	60.00	1038.95	67.48	54.18
WP-1	BASIN-S8	25YR_3DAY	67.27	5.67	7.50	0.0005	7251402	60.00	1249.16	67.47	62.45

TABLE II-G-8

BASIN S-8

72-HOUR NODAL STAGE REPORT

10-YEAR, 3-DAY STORM

25-YEAR, 3-DAY STORM

100-YEAR, 3-DAY STORM

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-8 72 HR NODAL STAGE REPORT FOR 10 YR 3 DAY STORM
 TABLE II-G-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10YR_3DAY	1K01	BASIN-S8	71.83	6.11	8.00	818818	14.18	11.22	20.4	-2.1
10YR_3DAY	1K02	BASIN-S8	71.83	6.10	8.00	1111667	18.04	13.99	42.8	16.0
10YR_3DAY	1K02A	BASIN-S8	71.83	5.33	7.50	28056	23.94	21.56	63.6	57.0
10YR_3DAY	1K03	BASIN-S8	71.83	5.34	7.50	59807	-258.71	9.95	-311.5	47.6
10YR_3DAY	1K04	BASIN-S8	71.83	5.34	7.50	59791	4.68	-263.40	23.8	-335.2
10YR_3DAY	1K15	BASIN-S8	71.83	5.33	7.50	135871	21.65	20.30	57.8	54.2
10YR_3DAY	1L02	BASIN-S8	71.83	6.11	8.00	1651590	5.99	19.93	38.5	4.0
10YR_3DAY	1L03	BASIN-S8	71.83	6.11	8.00	1286299	27.29	-87.87	45.1	-130.1
10YR_3DAY	1L04	BASIN-S8	71.83	6.11	8.00	94683	-89.28	92.03	-128.6	102.6
10YR_3DAY	1L05	BASIN-S8	71.83	6.11	8.00	1682187	97.90	-23.58	138.4	-77.5
10YR_3DAY	1L06	BASIN-S8	71.83	6.11	8.00	288287	-22.68	1.81	-73.1	-33.6
10YR_3DAY	1L07	BASIN-S8	71.83	6.11	8.00	1480233	9.47	3.77	14.2	-27.0
10YR_3DAY	1O01	BASIN-S8	71.83	5.65	7.50	811955	2.85	3.72	13.7	-35.4
10YR_3DAY	1O02	BASIN-S8	71.83	5.65	7.50	645335	6.57	7.26	-21.7	11.0
10YR_3DAY	1O03	BASIN-S8	71.83	5.60	7.50	718402	9.85	10.86	23.4	-15.1
10YR_3DAY	1O04	BASIN-S8	71.83	5.60	7.50	718356	13.45	14.47	-2.7	17.0
10YR_3DAY	1O05	BASIN-S8	71.83	5.41	7.50	630633	17.06	18.62	29.4	9.8
10YR_3DAY	1O06	BASIN-S8	71.83	5.41	7.50	630414	21.21	22.77	22.2	30.0
10YR_3DAY	1O07	BASIN-S8	71.83	5.31	7.50	588770	25.35	25.15	42.4	-14.2
10YR_3DAY	1O08	BASIN-S8	71.83	5.31	7.50	1177045	30.33	32.37	-37.7	62.4
10YR_3DAY	1O09	BASIN-S8	71.83	5.31	7.50	588521	2.59	0.00	12.5	-48.4
10YR_3DAY	1O16	BASIN-S8	71.83	5.23	7.50	494153	34.62	27.89	73.3	65.7
10YR_3DAY	1O17	BASIN-S8	71.83	5.23	7.50	1429799	-3.80	-24.04	113.9	70.2
10YR_3DAY	1O18	BASIN-S8	71.83	5.23	7.50	493842	-21.79	-29.01	81.2	75.7
10YR_3DAY	1P01	BASIN-S8	71.83	5.32	7.50	370841	21.64	17.50	61.6	50.3
10YR_3DAY	1P02	BASIN-S8	71.83	5.32	7.50	264507	18.47	15.52	55.1	56.5
10YR_3DAY	1P03	BASIN-S8	71.83	5.31	7.50	449904	1.93	-1.46	9.4	5.6
10YR_3DAY	1P04	BASIN-S8	71.83	5.31	7.50	2114948	6.52	-9.52	53.7	-7.9
10YR_3DAY	1P05	BASIN-S8	71.83	5.32	7.50	268996	7.05	4.07	53.6	36.1
10YR_3DAY	1P06	BASIN-S8	71.83	5.32	7.50	1802317	135.22	115.13	232.7	284.3
10YR_3DAY	1P07	BASIN-S8	71.83	5.34	7.50	624154	128.92	123.39	185.0	159.3
10YR_3DAY	1P08	BASIN-S8	71.83	5.54	7.50	778292	2.91	3.74	14.0	4.8
10YR_3DAY	1P09	BASIN-S8	71.83	5.54	7.50	778081	6.65	7.47	18.8	9.6
10YR_3DAY	1P10	BASIN-S8	71.83	5.49	7.50	747673	10.38	10.40	23.6	15.6
10YR_3DAY	1P11	BASIN-S8	71.83	5.49	7.50	827149	13.63	13.53	31.2	22.0
10YR_3DAY	1P12	BASIN-S8	71.83	5.32	7.50	578417	16.00	9.19	33.8	38.0
10YR_3DAY	1P13	BASIN-S8	71.83	5.32	7.50	402500	125.61	120.88	328.6	210.8
10YR_3DAY	1P14	BASIN-S8	71.83	5.31	7.50	627156	123.47	115.78	223.3	306.3
10YR_3DAY	2K05	BASIN-S8	71.83	6.10	8.00	1143561	5.80	0.00	37.1	5.0
10YR_3DAY	2K06	BASIN-S8	71.83	6.10	8.00	280997	1.05	-0.46	11.1	2.9
10YR_3DAY	2K07	BASIN-S8	71.83	6.10	8.00	605954	1.96	-1.19	17.5	-0.7
10YR_3DAY	2K08	BASIN-S8	71.83	6.11	8.00	498558	0.58	-1.85	10.3	-5.9
10YR_3DAY	2K09	BASIN-S8	71.83	6.13	8.00	1377346	3.81	-0.13	27.6	-16.1
10YR_3DAY	2K10	BASIN-S8	71.83	6.13	8.00	190800	0.75	0.21	-11.0	-16.0
10YR_3DAY	2K11	BASIN-S8	71.83	6.13	8.00	116655	0.72	0.39	6.1	1.3
10YR_3DAY	2K12	BASIN-S8	71.83	6.11	8.00	936093	8.89	5.61	45.7	15.2
10YR_3DAY	2K13	BASIN-S8	71.83	6.13	8.00	698397	6.82	4.81	34.1	18.6
10YR_3DAY	2K14	BASIN-S8	71.83	6.12	8.00	8809	4.81	4.78	18.6	18.2
10YR_3DAY	2L09	BASIN-S8	71.83	6.11	8.00	2405629	6.27	-2.21	43.6	-23.4
10YR_3DAY	2L10	BASIN-S8	71.83	6.11	8.00	8735	-2.21	-2.24	-23.4	-23.5
10YR_3DAY	2L11	BASIN-S8	71.83	6.11	8.00	752736	5.74	3.07	36.2	27.2
10YR_3DAY	2L12	BASIN-S8	71.83	6.11	8.00	1095610	7.55	3.64	54.5	21.0
10YR_3DAY	2L13	BASIN-S8	71.83	5.95	8.00	1633447	7.52	-2.08	48.1	-0.0
10YR_3DAY	2L14	BASIN-S8	71.83	5.96	8.00	772015	0.57	-3.92	14.9	-7.0
10YR_3DAY	2L15	BASIN-S8	71.83	6.08	8.00	8721	-3.92	-3.95	-7.0	-7.4

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-8 72 HR NODAL STAGE REPORT FOR 10 YR 3 DAY STORM
 TABLE II-G-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10YR_3DAY	2L18	BASIN-S8	71.83	6.12	8.00	833996	5.30	2.65	41.7	11.4
10YR_3DAY	2L19	BASIN-S8	71.83	6.12	8.00	18822	2.65	2.58	11.4	10.7
10YR_3DAY	2L20	BASIN-S8	71.83	6.12	8.00	18777	2.58	2.52	10.7	10.0
10YR_3DAY	2O10	BASIN-S8	71.83	5.21	7.50	577727	2.59	-32.52	12.5	-221.2
10YR_3DAY	2O11	BASIN-S8	71.83	5.21	7.50	822014	-29.35	-8.17	-204.0	7.8
10YR_3DAY	2O12	BASIN-S8	71.83	5.22	7.50	580538	-5.58	-26.28	20.3	-188.5
10YR_3DAY	2O13	BASIN-S8	71.83	5.22	7.50	1378554	-20.89	-25.65	-159.5	7.8
10YR_3DAY	2O14	BASIN-S8	71.83	5.22	7.50	516270	-23.39	-30.39	18.7	12.1
10YR_3DAY	2O15	BASIN-S8	71.83	5.23	7.50	549435	2.59	-5.30	12.5	8.9
10YR_3DAY	3L16	BASIN-S8	71.83	6.11	8.00	466165	1.61	0.00	7.9	1.5
10YR_3DAY	3L17	BASIN-S8	71.83	6.11	8.00	466193	1.61	-1.41	9.4	1.5
10YR_3DAY	B1-1	BASIN-S8	71.83	4.28	7.50	330407	-2.89	-5.43	0.9	-3.4
10YR_3DAY	B1-2	BASIN-S8	71.83	4.28	7.50	112832	-4.20	-5.07	-1.6	-3.1
10YR_3DAY	B1-3	BASIN-S8	71.83	4.26	7.50	651897	-0.81	-5.59	4.7	-3.5
10YR_3DAY	B1-4	BASIN-S8	71.83	4.26	7.50	581369	0.39	-3.85	5.1	-2.2
10YR_3DAY	B1-5	BASIN-S8	71.83	4.25	7.50	547610	1.57	-2.39	5.7	-1.1
10YR_3DAY	B1-6	BASIN-S8	71.83	4.25	7.50	547415	2.73	-1.22	6.2	-0.6
10YR_3DAY	B2-0	BASIN-S8	71.83	4.61	7.50	208143	-13.28	-17.47	-6.2	-9.9
10YR_3DAY	B2-1	BASIN-S8	71.83	4.57	7.50	215599	1.38	-2.63	2.2	-1.5
10YR_3DAY	B2-2	BASIN-S8	71.83	4.55	7.50	210291	13.42	9.79	9.2	5.7
10YR_3DAY	B2-3	BASIN-S8	71.83	4.40	7.50	180958	10.67	8.62	10.2	7.6
10YR_3DAY	B2-4	BASIN-S8	71.83	4.39	7.50	294514	10.43	7.30	10.9	6.6
10YR_3DAY	B3-0	BASIN-S8	71.83	4.54	7.50	530887	-8.59	-18.02	-2.4	-11.1
10YR_3DAY	B3-1	BASIN-S8	71.83	4.40	7.50	600538	-4.16	-11.01	1.3	-7.3
10YR_3DAY	B3-2	BASIN-S8	71.83	4.39	7.50	156866	-5.05	-6.77	-2.2	-4.5
10YR_3DAY	B3-3	BASIN-S8	71.83	4.36	7.50	154036	-3.19	-4.72	0.8	3.0
10YR_3DAY	B3-3A	BASIN-S8	71.83	4.36	7.50	2498	1.50	1.47	7.0	-2.6
10YR_3DAY	B3-4	BASIN-S8	71.83	4.36	7.50	154452	0.90	-0.62	1.6	-0.7
10YR_3DAY	B3-5	BASIN-S8	71.83	4.36	7.50	154406	1.21	-0.31	1.9	-0.3
10YR_3DAY	B4-0	BASIN-S8	71.83	4.55	7.50	343006	-11.54	-17.97	-5.9	-11.6
10YR_3DAY	B4-1	BASIN-S8	71.83	4.42	7.50	548590	-6.63	-13.34	-1.0	-9.2
10YR_3DAY	B4-2	BASIN-S8	71.83	4.41	7.50	239629	-6.23	-8.97	-2.8	-6.3
10YR_3DAY	B4-3	BASIN-S8	71.83	4.39	7.50	236358	-5.60	-8.12	-2.4	-5.8
10YR_3DAY	B4-4	BASIN-S8	71.83	4.36	7.50	291312	-5.79	-7.49	-15.5	-5.4
10YR_3DAY	B4-5	BASIN-S8	71.83	4.35	7.50	221126	1.89	-0.13	3.0	1.5
10YR_3DAY	B4-5A	BASIN-S8	71.83	4.35	7.50	2488	-0.13	-1.53	1.5	-9.3
10YR_3DAY	B4-5B	BASIN-S8	71.83	4.36	7.50	2500	-1.53	2.70	-9.3	23.2
10YR_3DAY	B4-5C	BASIN-S8	71.83	4.35	7.50	2496	2.70	-1.39	23.2	-8.6
10YR_3DAY	B5-0	BASIN-S8	71.83	4.34	7.50	581569	5.49	0.00	8.0	0.0
10YR_3DAY	B5-1	BASIN-S8	71.83	4.34	7.50	582359	8.39	2.88	10.3	2.2
10YR_3DAY	B5-2	BASIN-S8	71.83	4.35	7.50	233771	8.02	5.78	7.6	4.4
10YR_3DAY	B5-3	BASIN-S8	71.83	4.36	7.50	320845	1.39	-1.64	3.6	-2.7
10YR_3DAY	B5-4	BASIN-S8	71.83	4.26	7.50	411107	2.42	-0.48	4.9	-0.1
10YR_3DAY	B5-4A	BASIN-S8	71.83	4.35	7.50	2506	-0.48	-0.50	-0.1	0.2
10YR_3DAY	B6-0	BASIN-S8	71.83	4.34	7.50	477892	4.50	0.00	6.6	0.0
10YR_3DAY	B6-1	BASIN-S8	71.83	4.34	7.50	478248	6.59	2.08	8.5	1.7
10YR_3DAY	B6-2	BASIN-S8	71.83	4.35	7.50	110194	5.22	4.17	-11.6	3.6
10YR_3DAY	B6-3	BASIN-S8	71.83	4.36	7.50	126790	5.24	3.92	2.2	20.6
10YR_3DAY	B6-3A	BASIN-S8	71.83	4.35	7.50	2485	3.92	3.90	20.2	-13.4
10YR_3DAY	B6-4	BASIN-S8	71.83	4.34	7.50	219300	1.84	-0.19	3.0	-0.0
10YR_3DAY	B6-4A	BASIN-S8	71.83	4.34	7.50	2485	-0.19	-0.21	-0.0	-0.0
10YR_3DAY	B6-4B	BASIN-S8	71.83	4.36	7.50	2516	-0.21	-0.23	-0.0	-2.7
10YR_3DAY	B7-0	BASIN-S8	71.83	4.37	7.50	194067	1.85	0.00	2.8	0.0
10YR_3DAY	B7-1	BASIN-S8	71.83	4.37	7.50	528617	5.48	0.44	8.0	0.6
10YR_3DAY	B7-2	BASIN-S8	71.83	4.37	7.50	181333	4.93	3.19	5.4	2.8

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-8 72 HR NODAL STAGE REPORT FOR 10 YR 3 DAY STORM
 TABLE II-G-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10YR_3DAY	B7-3	BASIN-S8	71.83	4.37	7.50	350232	6.88	3.52	8.2	3.1
10YR_3DAY	B7-4	BASIN-S8	71.83	4.37	7.50	197146	1.46	-0.43	2.3	-0.5
10YR_3DAY	B7-4A	BASIN-S8	71.83	4.37	7.50	31589	-0.43	-0.73	-0.5	-1.0
10YR_3DAY	B8-0	BASIN-S8	71.83	4.61	7.50	289210	-14.43	-17.96	-8.8	-13.9
10YR_3DAY	B8-1	BASIN-S8	71.83	4.58	7.50	374823	-11.28	-15.62	-8.5	-15.0
10YR_3DAY	B8-2	BASIN-S8	71.83	4.45	7.50	339460	-9.68	-13.10	-6.5	-11.8
10YR_3DAY	B8-3	BASIN-S8	71.83	4.40	7.50	132789	1.39	0.07	1.9	-0.1
10YR_3DAY	BC1-01	BASIN-S8	71.83	5.28	7.50	99999	98.19	96.63	295.7	208.2
10YR_3DAY	BC1-02	BASIN-S8	71.83	5.28	7.50	99783	97.00	95.40	211.5	314.4
10YR_3DAY	BC1-03	BASIN-S8	71.83	5.27	7.50	99485	95.76	94.09	317.8	222.0
10YR_3DAY	BC1-04	BASIN-S8	71.83	5.27	7.50	137046	94.45	92.11	225.3	288.4
10YR_3DAY	BC1-05	BASIN-S8	71.83	5.26	7.50	136897	74.51	71.73	280.1	229.5
10YR_3DAY	BC1-06	BASIN-S8	71.83	5.26	7.50	136828	25.06	29.13	297.3	338.8
10YR_3DAY	BC1-07	BASIN-S8	71.83	5.26	7.50	136791	12.02	-21.00	332.3	282.8
10YR_3DAY	BC1-08	BASIN-S8	71.83	5.26	7.50	136798	-20.63	26.74	286.1	325.8
10YR_3DAY	BC1-09	BASIN-S8	71.83	5.26	7.50	99074	27.11	0.00	329.1	327.0
10YR_3DAY	BC1-10	BASIN-S8	71.83	5.30	7.50	0	0.00	0.00	327.0	0.0
10YR_3DAY	BC2-01	BASIN-S8	71.83	4.37	7.50	446042	2.48	-1.79	5.0	-1.1
10YR_3DAY	BC2-02	BASIN-S8	71.83	4.36	7.50	222255	6.29	4.16	6.5	3.1
10YR_3DAY	BC2-03	BASIN-S8	71.83	4.35	7.50	440633	0.47	-3.73	0.8	-0.5
10YR_3DAY	BC2-04	BASIN-S8	71.83	4.34	7.50	407654	1.85	-1.98	6.1	5.4
10YR_3DAY	BC2-04A	BASIN-S8	71.83	4.35	7.50	2463	-1.98	-2.01	5.4	-4.1
10YR_3DAY	BC2-05	BASIN-S8	71.83	4.33	7.50	338517	-4.53	-7.62	-0.1	-4.9
10YR_3DAY	BC2-06	BASIN-S8	71.83	4.30	7.50	329415	-4.08	-6.78	0.1	-4.2
10YR_3DAY	BC2-07	BASIN-S8	71.83	4.30	7.50	328456	-3.67	-6.33	0.4	-3.9
10YR_3DAY	BC2-08	BASIN-S8	71.83	4.29	7.50	421964	-2.57	-5.92	1.7	-3.7
10YR_3DAY	BC2-09	BASIN-S8	71.83	4.28	7.50	221529	-3.33	-5.04	-0.4	-3.2
10YR_3DAY	BC2-10	BASIN-S8	71.83	4.28	7.50	232239	-3.49	-5.27	-0.3	-3.5
10YR_3DAY	SV-A	BASIN-S8	71.83	5.38	7.50	333517	2.87	2.71	20.2	7.7
10YR_3DAY	SV-B	BASIN-S8	71.83	5.38	7.50	199056	1.71	1.40	11.2	4.5
10YR_3DAY	SV-C	BASIN-S8	71.83	5.39	7.50	160795	21.49	21.32	28.3	22.2
10YR_3DAY	SV-D	BASIN-S8	71.83	5.39	7.50	268068	1.81	1.58	12.4	2.7
10YR_3DAY	SV-E	BASIN-S8	71.83	5.38	7.50	83461	0.48	0.34	3.4	0.1
10YR_3DAY	SV-F	BASIN-S8	71.83	5.40	7.50	64045	0.56	0.55	3.7	1.6
10YR_3DAY	SV-H	BASIN-S8	71.83	5.40	7.50	60891	13.70	13.69	25.3	23.2
10YR_3DAY	SV-I	BASIN-S8	71.83	5.49	7.50	347886	2.65	4.50	18.5	4.9
10YR_3DAY	SV-J	BASIN-S8	71.83	5.46	7.50	424510	6.12	7.76	23.3	6.4
10YR_3DAY	SV-K	BASIN-S8	71.83	5.49	7.50	114978	3.20	3.83	17.7	14.1
10YR_3DAY	SV-L	BASIN-S8	71.83	5.46	7.50	74707	12.38	12.66	23.2	20.4
10YR_3DAY	SV-M	BASIN-S8	71.83	5.49	7.50	174514	5.33	6.26	18.0	11.4
10YR_3DAY	SV-N	BASIN-S8	71.83	5.48	7.50	169372	8.89	9.68	28.1	22.4
10YR_3DAY	SV-O	BASIN-S8	71.83	5.38	7.50	152565	1.28	1.04	8.5	3.3
10YR_3DAY	SV-P	BASIN-S8	71.83	5.38	7.50	235261	4.65	4.48	20.7	12.6
10YR_3DAY	SV-Q	BASIN-S8	71.83	5.38	7.50	4915272	134.26	126.26	329.8	172.2
10YR_3DAY	TG-1	BASIN-S8	71.83	5.67	7.50	4176288	31.42	23.93	155.5	11.6
10YR_3DAY	TG-2	BASIN-S8	71.83	5.46	7.50	775517	20.83	21.17	53.5	30.0
10YR_3DAY	TG-3	BASIN-S8	71.83	5.50	7.50	1391730	31.39	32.05	63.6	18.0
10YR_3DAY	TG-4	BASIN-S8	71.83	5.67	7.50	249106	1.18	0.73	8.2	0.1
10YR_3DAY	TG-5	BASIN-S8	71.83	5.71	7.50	2386305	14.73	13.31	106.5	33.2
10YR_3DAY	TG-6	BASIN-S8	71.83	5.49	7.50	597381	5.46	8.75	43.0	23.2
10YR_3DAY	WP-1	BASIN-S8	71.83	5.38	7.50	6119260	34.31	32.26	241.5	31.2

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-8 72 HR NODAL STAGE REPORT FOR 25 YR 3 DAY STORM
 TABLE II-G-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR_3DAY	1K01	BASIN-S8	71.83	6.40	8.00	963681	17.41	13.58	34.4	-5.5
25YR_3DAY	1K02	BASIN-S8	71.83	6.39	8.00	1322295	21.87	16.72	50.8	20.1
25YR_3DAY	1K02A	BASIN-S8	71.83	5.56	7.50	29138	29.58	29.51	70.4	74.1
25YR_3DAY	1K03	BASIN-S8	71.83	5.57	7.50	751393	5.86	12.86	332.1	50.3
25YR_3DAY	1K04	BASIN-S8	71.83	5.57	7.50	751393	5.86	0.00	31.7	300.5
25YR_3DAY	1K15	BASIN-S8	71.83	5.56	7.50	140820	29.62	29.22	75.0	68.2
25YR_3DAY	1L02	BASIN-S8	71.83	6.40	8.00	1834245	7.32	-13.20	48.5	-42.1
25YR_3DAY	1L03	BASIN-S8	71.83	6.40	8.00	1452481	-3.80	65.93	8.8	137.3
25YR_3DAY	1L04	BASIN-S8	71.83	6.40	8.00	96131	66.11	-59.83	138.8	-169.6
25YR_3DAY	1L05	BASIN-S8	71.83	6.40	8.00	1891151	-52.61	17.88	-124.1	34.6
25YR_3DAY	1L06	BASIN-S8	71.83	6.40	8.00	333693	19.02	1.58	40.6	-41.1
25YR_3DAY	1L07	BASIN-S8	71.83	6.40	8.00	1741964	10.93	3.91	19.4	-27.3
25YR_3DAY	1001	BASIN-S8	71.83	5.87	7.50	914452	3.59	4.38	18.5	45.1
25YR_3DAY	1002	BASIN-S8	71.83	5.87	7.50	850326	7.97	7.14	63.6	11.1
25YR_3DAY	1003	BASIN-S8	71.83	5.82	7.50	812245	10.41	10.73	27.9	39.2
25YR_3DAY	1004	BASIN-S8	71.83	5.82	7.50	812203	14.00	14.32	56.0	18.9
25YR_3DAY	1005	BASIN-S8	71.83	5.63	7.50	726218	17.59	19.21	35.7	32.3
25YR_3DAY	1006	BASIN-S8	71.83	5.63	7.50	725959	22.47	24.10	49.1	33.1
25YR_3DAY	1007	BASIN-S8	71.83	5.52	7.50	679369	27.36	28.44	49.9	98.7
25YR_3DAY	1008	BASIN-S8	71.83	5.52	7.50	1358297	39.30	41.43	204.9	67.3
25YR_3DAY	1009	BASIN-S8	71.83	5.52	7.50	679147	3.26	4.33	16.8	72.6
25YR_3DAY	1016	BASIN-S8	71.83	5.39	7.50	554730	44.27	41.59	82.1	80.0
25YR_3DAY	1017	BASIN-S8	71.83	5.38	7.50	1490320	46.49	38.23	150.5	96.5
25YR_3DAY	1018	BASIN-S8	71.83	5.38	7.50	550085	41.07	35.98	111.2	105.9
25YR_3DAY	1P01	BASIN-S8	71.83	5.54	7.50	413994	30.90	28.92	77.9	67.1
25YR_3DAY	1P02	BASIN-S8	71.83	5.54	7.50	300851	30.14	28.56	73.5	68.9
25YR_3DAY	1P03	BASIN-S8	71.83	5.54	7.50	525123	2.44	1.68	12.7	6.3
25YR_3DAY	1P04	BASIN-S8	71.83	5.54	7.50	2336460	11.52	8.03	67.8	-5.9
25YR_3DAY	1P05	BASIN-S8	71.83	5.54	7.50	309136	37.93	36.15	69.7	62.3
25YR_3DAY	1P06	BASIN-S8	71.83	5.53	7.50	2074146	220.18	203.66	344.5	329.2
25YR_3DAY	1P07	BASIN-S8	71.83	5.55	7.50	722223	178.48	174.24	246.0	231.8
25YR_3DAY	1P08	BASIN-S8	71.83	5.76	7.50	887547	3.67	3.68	18.9	5.4
25YR_3DAY	1P09	BASIN-S8	71.83	5.76	7.50	887379	7.35	7.36	24.3	10.9
25YR_3DAY	1P10	BASIN-S8	71.83	5.71	7.50	857495	11.03	10.75	29.8	17.5
25YR_3DAY	1P11	BASIN-S8	71.83	5.71	7.50	949277	14.83	14.43	38.5	25.3
25YR_3DAY	1P12	BASIN-S8	71.83	5.52	7.50	663795	17.55	11.20	41.3	33.4
25YR_3DAY	1P13	BASIN-S8	71.83	5.52	7.50	449700	216.49	212.16	371.1	356.7
25YR_3DAY	1P14	BASIN-S8	71.83	5.51	7.50	713638	215.42	207.20	373.5	366.2
25YR_3DAY	2K05	BASIN-S8	71.83	6.41	8.00	1340252	7.07	0.27	46.7	5.8
25YR_3DAY	2K06	BASIN-S8	71.83	6.41	8.00	324317	1.57	-0.15	13.8	3.5
25YR_3DAY	2K07	BASIN-S8	71.83	6.41	8.00	698897	2.81	-1.12	22.1	-0.6
25YR_3DAY	2K08	BASIN-S8	71.83	6.41	8.00	561453	1.04	-2.28	13.3	-6.7
25YR_3DAY	2K09	BASIN-S8	71.83	6.44	8.00	1575623	4.72	0.67	35.9	-18.4
25YR_3DAY	2K10	BASIN-S8	71.83	6.44	8.00	228357	1.74	1.15	-11.8	-18.3
25YR_3DAY	2K11	BASIN-S8	71.83	6.44	8.00	124878	0.85	0.54	7.3	1.6
25YR_3DAY	2K12	BASIN-S8	71.83	6.41	8.00	1059310	11.70	7.69	55.4	21.5
25YR_3DAY	2K13	BASIN-S8	71.83	6.44	8.00	855303	8.98	6.73	42.6	21.6
25YR_3DAY	2K14	BASIN-S8	71.83	6.43	8.00	8809	6.73	6.70	21.6	21.1
25YR_3DAY	2L09	BASIN-S8	71.83	6.41	8.00	2751484	8.98	-1.59	58.1	-26.5
25YR_3DAY	2L10	BASIN-S8	71.83	6.41	8.00	8735	-1.59	-1.62	-26.5	-26.6
25YR_3DAY	2L11	BASIN-S8	71.83	6.41	8.00	927078	7.84	4.24	46.1	31.1
25YR_3DAY	2L12	BASIN-S8	71.83	6.41	8.00	1256425	9.74	4.76	65.8	24.5
25YR_3DAY	2L13	BASIN-S8	71.83	6.25	8.00	1876403	9.18	-1.98	60.6	0.6
25YR_3DAY	2L14	BASIN-S8	71.83	6.26	8.00	888460	1.32	-3.92	19.9	-7.6
25YR_3DAY	2L15	BASIN-S8	71.83	6.37	8.00	8721	-3.92	-3.96	-7.6	-8.1

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-8 72 HR NODAL STAGE REPORT FOR 25 YR 3 DAY STORM
 TABLE II-G-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR_3DAY	2L18	BASIN-S8	71.83	6.43	8.00	920034	6.28	3.44	50.4	14.0
25YR_3DAY	2L19	BASIN-S8	71.83	6.42	8.00	20029	3.44	3.37	14.0	13.2
25YR_3DAY	2L20	BASIN-S8	71.83	6.42	8.00	19984	3.37	3.30	13.2	12.3
25YR_3DAY	2O10	BASIN-S8	71.83	5.38	7.50	650814	3.26	-16.96	16.8	203.3
25YR_3DAY	2O11	BASIN-S8	71.83	5.38	7.50	898739	-13.00	1.37	225.8	3.2
25YR_3DAY	2O12	BASIN-S8	71.83	5.38	7.50	650750	4.63	15.19	20.1	240.8
25YR_3DAY	2O13	BASIN-S8	71.83	5.38	7.50	1505321	21.92	0.00	278.9	13.1
25YR_3DAY	2O14	BASIN-S8	71.83	5.38	7.50	577532	2.86	0.00	27.8	25.5
25YR_3DAY	2O15	BASIN-S8	71.83	5.38	7.50	617453	3.26	0.00	16.8	11.2
25YR_3DAY	3L16	BASIN-S8	71.83	6.40	8.00	545940	2.03	0.00	10.6	0.5
25YR_3DAY	3L17	BASIN-S8	71.83	6.40	8.00	545969	2.03	0.18	11.1	1.5
25YR_3DAY	B1-1	BASIN-S8	71.83	4.47	7.50	376471	-2.96	-6.78	1.3	-4.5
25YR_3DAY	B1-2	BASIN-S8	71.83	4.47	7.50	128178	-5.26	-6.56	-2.2	-4.3
25YR_3DAY	B1-3	BASIN-S8	71.83	4.44	7.50	738853	0.02	-7.16	6.2	-5.0
25YR_3DAY	B1-4	BASIN-S8	71.83	4.44	7.50	658236	1.49	-4.90	6.8	-3.1
25YR_3DAY	B1-5	BASIN-S8	71.83	4.43	7.50	622901	2.97	-3.03	7.5	-1.6
25YR_3DAY	B1-6	BASIN-S8	71.83	4.43	7.50	622601	4.43	-1.55	8.3	-0.9
25YR_3DAY	B2-0	BASIN-S8	71.83	4.78	7.50	228349	-12.38	-17.37	-6.0	-10.5
25YR_3DAY	B2-1	BASIN-S8	71.83	4.75	7.50	236917	2.31	-2.25	3.2	-1.4
25YR_3DAY	B2-2	BASIN-S8	71.83	4.73	7.50	231916	14.75	10.63	11.0	6.5
25YR_3DAY	B2-3	BASIN-S8	71.83	4.60	7.50	204388	11.74	9.03	12.6	9.1
25YR_3DAY	B2-4	BASIN-S8	71.83	4.58	7.50	333197	12.00	7.82	13.7	8.1
25YR_3DAY	B3-0	BASIN-S8	71.83	4.70	7.50	584487	-7.35	-18.33	-1.5	-12.4
25YR_3DAY	B3-1	BASIN-S8	71.83	4.59	7.50	677409	-2.20	-11.30	3.2	-8.3
25YR_3DAY	B3-2	BASIN-S8	71.83	4.58	7.50	176316	-4.14	-6.43	-1.6	-4.6
25YR_3DAY	B3-3	BASIN-S8	71.83	4.56	7.50	174328	-2.32	-4.48	1.7	-2.0
25YR_3DAY	B3-3A	BASIN-S8	71.83	4.56	7.50	3087	1.60	1.57	2.3	4.0
25YR_3DAY	B3-4	BASIN-S8	71.83	4.56	7.50	174798	1.78	-0.25	2.5	-0.5
25YR_3DAY	B3-5	BASIN-S8	71.83	4.56	7.50	174755	2.03	-0.25	2.7	-0.2
25YR_3DAY	B4-0	BASIN-S8	71.83	4.73	7.50	378530	-10.79	-18.34	-5.9	-13.1
25YR_3DAY	B4-1	BASIN-S8	71.83	4.62	7.50	618730	-5.01	-13.76	0.3	-10.5
25YR_3DAY	B4-2	BASIN-S8	71.83	4.60	7.50	270857	-5.18	-8.81	-2.1	-6.8
25YR_3DAY	B4-3	BASIN-S8	71.83	4.59	7.50	268025	-4.90	-8.35	-1.9	-6.5
25YR_3DAY	B4-4	BASIN-S8	71.83	4.56	7.50	323621	-4.74	-8.06	-8.8	-6.2
25YR_3DAY	B4-5	BASIN-S8	71.83	4.56	7.50	253116	3.17	0.16	4.3	1.7
25YR_3DAY	B4-5A	BASIN-S8	71.83	4.56	7.50	3076	0.16	-0.61	1.7	-9.1
25YR_3DAY	B4-5B	BASIN-S8	71.83	4.56	7.50	3077	-0.61	1.58	-9.1	23.3
25YR_3DAY	B4-5C	BASIN-S8	71.83	4.56	7.50	3076	1.58	-0.60	23.3	-8.5
25YR_3DAY	B5-0	BASIN-S8	71.83	4.54	7.50	659269	7.92	0.00	10.8	0.0
25YR_3DAY	B5-1	BASIN-S8	71.83	4.54	7.50	660350	11.62	3.69	13.8	2.9
25YR_3DAY	B5-2	BASIN-S8	71.83	4.55	7.50	265509	10.60	7.39	10.3	6.0
25YR_3DAY	B5-3	BASIN-S8	71.83	4.56	7.50	353962	2.86	-1.43	5.0	-2.6
25YR_3DAY	B5-4	BASIN-S8	71.83	4.45	7.50	473407	3.96	-0.95	6.8	-0.3
25YR_3DAY	B5-4A	BASIN-S8	71.83	4.55	7.50	3085	-0.95	-0.99	-0.3	-0.4
25YR_3DAY	B6-0	BASIN-S8	71.83	4.54	7.50	540963	6.40	0.00	8.9	0.0
25YR_3DAY	B6-1	BASIN-S8	71.83	4.54	7.50	541317	8.84	2.44	11.4	2.2
25YR_3DAY	B6-2	BASIN-S8	71.83	4.55	7.50	125834	6.38	4.89	-9.6	4.6
25YR_3DAY	B6-3	BASIN-S8	71.83	4.56	7.50	143210	6.93	5.30	4.2	21.5
25YR_3DAY	B6-3A	BASIN-S8	71.83	4.55	7.50	3069	4.61	4.58	20.4	-12.2
25YR_3DAY	B6-4	BASIN-S8	71.83	4.56	7.50	253061	3.08	0.02	4.3	0.1
25YR_3DAY	B6-4A	BASIN-S8	71.83	4.56	7.50	3107	0.02	0.00	0.1	0.1
25YR_3DAY	B6-4B	BASIN-S8	71.83	4.56	7.50	3106	0.00	-0.15	0.1	-2.5
25YR_3DAY	B7-0	BASIN-S8	71.83	4.57	7.50	219510	2.66	0.00	3.8	0.0
25YR_3DAY	B7-1	BASIN-S8	71.83	4.57	7.50	602751	7.61	0.31	10.7	0.6
25YR_3DAY	B7-2	BASIN-S8	71.83	4.58	7.50	206063	6.39	3.89	7.2	3.7

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-8 72 HR NODAL STAGE REPORT FOR 25 YR 3 DAY STORM
 TABLE II-G-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR_3DAY	B7-3	BASIN-S8	71.83	4.58	7.50	399443	8.83	4.03	10.8	3.9
25YR_3DAY	B7-4	BASIN-S8	71.83	4.58	7.50	224247	2.44	-0.25	3.3	-0.5
25YR_3DAY	B7-4A	BASIN-S8	71.83	4.58	7.50	34796	-0.25	-0.67	-0.5	-1.2
25YR_3DAY	B8-0	BASIN-S8	71.83	4.81	7.50	321055	-15.02	-19.15	-9.8	-16.3
25YR_3DAY	B8-1	BASIN-S8	71.83	4.78	7.50	416058	-11.46	-16.54	-9.7	-18.1
25YR_3DAY	B8-2	BASIN-S8	71.83	4.66	7.50	382532	-9.95	-14.47	-7.3	-14.4
25YR_3DAY	B8-3	BASIN-S8	71.83	4.62	7.50	150224	1.90	0.09	2.8	0.1
25YR_3DAY	BC1-01	BASIN-S8	71.83	5.41	7.50	104624	188.48	185.49	353.8	354.2
25YR_3DAY	BC1-02	BASIN-S8	71.83	5.39	7.50	104071	185.91	182.65	358.1	348.4
25YR_3DAY	BC1-03	BASIN-S8	71.83	5.37	7.50	102981	183.08	179.23	352.3	354.4
25YR_3DAY	BC1-04	BASIN-S8	71.83	5.35	7.50	140368	179.66	173.96	358.3	357.0
25YR_3DAY	BC1-05	BASIN-S8	71.83	5.34	7.50	139851	156.05	149.92	347.9	340.7
25YR_3DAY	BC1-06	BASIN-S8	71.83	5.33	7.50	139483	167.99	161.41	438.1	417.8
25YR_3DAY	BC1-07	BASIN-S8	71.83	5.32	7.50	139015	144.47	136.89	411.2	439.3
25YR_3DAY	BC1-08	BASIN-S8	71.83	5.31	7.50	138690	137.32	114.54	443.2	403.7
25YR_3DAY	BC1-09	BASIN-S8	71.83	5.30	7.50	100656	114.97	837.28	407.7	408.5
25YR_3DAY	BC1-10	BASIN-S8	71.83	5.30	7.50	0	837.28	0.00	408.5	0.0
25YR_3DAY	BC2-01	BASIN-S8	71.83	4.57	7.50	510548	4.06	-2.06	6.8	-1.4
25YR_3DAY	BC2-02	BASIN-S8	71.83	4.57	7.50	254332	8.33	5.27	8.6	4.1
25YR_3DAY	BC2-03	BASIN-S8	71.83	4.55	7.50	503780	2.01	-4.02	11.7	-0.5
25YR_3DAY	BC2-04	BASIN-S8	71.83	4.54	7.50	463229	3.46	-2.01	8.7	-3.1
25YR_3DAY	BC2-04A	BASIN-S8	71.83	4.55	7.50	3047	-2.01	-2.05	-3.1	4.8
25YR_3DAY	BC2-05	BASIN-S8	71.83	4.54	7.50	386159	-3.43	-7.91	0.8	-5.4
25YR_3DAY	BC2-06	BASIN-S8	71.83	4.50	7.50	376181	-3.10	-7.15	1.0	-4.9
25YR_3DAY	BC2-07	BASIN-S8	71.83	4.50	7.50	375220	-2.81	-6.83	1.2	-4.7
25YR_3DAY	BC2-08	BASIN-S8	71.83	4.49	7.50	483744	-1.47	-6.54	3.0	-4.4
25YR_3DAY	BC2-09	BASIN-S8	71.83	4.48	7.50	252258	-2.96	-5.53	0.1	-3.8
25YR_3DAY	BC2-10	BASIN-S8	71.83	4.48	7.50	263090	-3.53	-6.21	-0.1	-4.3
25YR_3DAY	SV-A	BASIN-S8	71.83	5.65	7.50	389649	3.45	3.87	25.0	10.3
25YR_3DAY	SV-B	BASIN-S8	71.83	5.64	7.50	250610	2.08	2.15	14.1	6.1
25YR_3DAY	SV-C	BASIN-S8	71.83	5.66	7.50	190915	24.24	24.34	37.4	30.5
25YR_3DAY	SV-D	BASIN-S8	71.83	5.66	7.50	325124	2.19	2.40	15.4	3.9
25YR_3DAY	SV-E	BASIN-S8	71.83	5.64	7.50	95663	0.58	0.60	4.2	0.5
25YR_3DAY	SV-F	BASIN-S8	71.83	5.67	7.50	83262	0.68	0.79	4.7	2.1
25YR_3DAY	SV-H	BASIN-S8	71.83	5.67	7.50	77002	17.47	17.57	30.5	28.0
25YR_3DAY	SV-I	BASIN-S8	71.83	5.82	7.50	529116	3.20	5.94	22.9	6.0
25YR_3DAY	SV-J	BASIN-S8	71.83	5.77	7.50	495927	7.74	9.73	28.3	8.2
25YR_3DAY	SV-K	BASIN-S8	71.83	5.83	7.50	178154	3.95	4.89	21.1	16.5
25YR_3DAY	SV-L	BASIN-S8	71.83	5.77	7.50	92402	15.73	16.09	27.7	24.3
25YR_3DAY	SV-M	BASIN-S8	71.83	5.82	7.50	219808	6.86	8.00	21.6	13.5
25YR_3DAY	SV-N	BASIN-S8	71.83	5.80	7.50	236537	11.35	12.46	33.3	26.2
25YR_3DAY	SV-O	BASIN-S8	71.83	5.64	7.50	190736	1.55	1.60	10.6	4.4
25YR_3DAY	SV-P	BASIN-S8	71.83	5.65	7.50	295470	6.23	6.49	26.5	16.9
25YR_3DAY	SV-Q	BASIN-S8	71.83	5.64	7.50	5665699	174.16	175.13	423.7	228.7
25YR_3DAY	TG-1	BASIN-S8	71.83	5.96	7.50	4872280	36.71	24.35	189.5	15.6
25YR_3DAY	TG-2	BASIN-S8	71.83	5.74	7.50	1050835	22.84	23.87	66.3	37.0
25YR_3DAY	TG-3	BASIN-S8	71.83	5.78	7.50	1685811	33.33	34.26	79.9	24.3
25YR_3DAY	TG-4	BASIN-S8	71.83	5.96	7.50	297851	1.42	0.66	10.2	0.3
25YR_3DAY	TG-5	BASIN-S8	71.83	6.02	7.50	3153441	17.65	15.08	130.6	38.4
25YR_3DAY	TG-6	BASIN-S8	71.83	5.83	7.50	896056	6.46	11.27	51.9	26.4
25YR_3DAY	WP-1	BASIN-S8	71.83	5.65	7.50	7130867	41.50	50.05	298.3	49.4

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-8 72 HR NODAL STAGE REPORT FOR 100 YR 3 DAY STORM
 TABLE II-G-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
100YR_3DAY	1K01	BASIN-S8	71.83	6.91	8.00	1193419	22.85	17.27	47.7	-1.7
100YR_3DAY	1K02	BASIN-S8	71.83	6.88	8.00	1665713	28.44	21.38	77.5	28.7
100YR_3DAY	1K02A	BASIN-S8	71.83	5.97	7.50	31109	47.25	47.27	93.2	96.3
100YR_3DAY	1K03	BASIN-S8	71.83	6.02	7.50	1093804	31.16	25.87	430.8	64.5
100YR_3DAY	1K04	BASIN-S8	71.83	6.02	7.50	1093817	8.17	22.99	48.2	382.6
100YR_3DAY	1K15	BASIN-S8	71.83	5.97	7.50	149804	47.40	47.40	97.6	89.5
100YR_3DAY	1L02	BASIN-S8	71.83	6.91	8.00	2077877	9.92	17.27	68.7	-13.6
100YR_3DAY	1L03	BASIN-S8	71.83	6.91	8.00	1650686	31.15	-84.51	56.4	-60.6
100YR_3DAY	1L04	BASIN-S8	71.83	6.91	8.00	98394	-86.68	92.28	-61.8	19.7
100YR_3DAY	1L05	BASIN-S8	71.83	6.91	8.00	2135556	102.11	-19.34	85.2	25.6
100YR_3DAY	1L06	BASIN-S8	71.83	6.91	8.00	386985	-17.74	1.77	34.8	-50.6
100YR_3DAY	1L07	BASIN-S8	71.83	6.91	8.00	2086498	14.38	3.96	35.7	-34.1
100YR_3DAY	1001	BASIN-S8	71.83	6.25	7.50	1072551	5.05	4.53	28.5	54.4
100YR_3DAY	1002	BASIN-S8	71.83	6.25	7.50	1072551	9.58	6.82	83.0	14.0
100YR_3DAY	1003	BASIN-S8	71.83	6.20	7.50	961589	11.41	10.37	40.0	55.0
100YR_3DAY	1004	BASIN-S8	71.83	6.20	7.50	961561	14.96	13.92	80.9	24.4
100YR_3DAY	1005	BASIN-S8	71.83	6.02	7.50	895593	18.51	19.54	50.3	43.3
100YR_3DAY	1006	BASIN-S8	71.83	6.02	7.50	894913	24.14	25.17	69.3	42.2
100YR_3DAY	1007	BASIN-S8	71.83	5.90	7.50	846427	29.76	31.16	68.2	122.1
100YR_3DAY	1008	BASIN-S8	71.83	5.90	7.50	1692390	46.33	49.12	264.7	86.5
100YR_3DAY	1009	BASIN-S8	71.83	5.90	7.50	846197	4.59	5.99	25.9	90.7
100YR_3DAY	1016	BASIN-S8	71.83	5.72	7.50	681865	53.11	51.90	109.3	102.1
100YR_3DAY	1017	BASIN-S8	71.83	5.71	7.50	1619322	87.38	84.04	209.4	143.7
100YR_3DAY	1018	BASIN-S8	71.83	5.69	7.50	670039	88.03	84.66	166.5	157.6
100YR_3DAY	1P01	BASIN-S8	71.83	5.92	7.50	490192	49.74	48.76	103.9	89.7
100YR_3DAY	1P02	BASIN-S8	71.83	5.92	7.50	364905	50.47	49.60	99.6	88.6
100YR_3DAY	1P03	BASIN-S8	71.83	5.94	7.50	656602	3.43	3.58	19.6	7.8
100YR_3DAY	1P04	BASIN-S8	71.83	5.94	7.50	2723738	17.05	17.62	96.6	-0.4
100YR_3DAY	1P05	BASIN-S8	71.83	5.91	7.50	379744	69.11	68.02	98.8	99.5
100YR_3DAY	1P06	BASIN-S8	71.83	5.89	7.50	2545180	312.73	300.16	535.3	455.1
100YR_3DAY	1P07	BASIN-S8	71.83	5.92	7.50	889067	234.08	230.94	363.3	357.9
100YR_3DAY	1P08	BASIN-S8	71.83	6.15	7.50	1065206	5.16	3.72	29.2	7.0
100YR_3DAY	1P09	BASIN-S8	71.83	6.15	7.50	1065110	8.88	7.44	36.1	13.9
100YR_3DAY	1P10	BASIN-S8	71.83	6.10	7.50	1039383	12.60	11.45	43.1	22.3
100YR_3DAY	1P11	BASIN-S8	71.83	6.10	7.50	1151714	17.19	15.88	54.8	32.1
100YR_3DAY	1P12	BASIN-S8	71.83	5.87	7.50	812784	20.28	15.25	57.0	38.2
100YR_3DAY	1P13	BASIN-S8	71.83	5.87	7.50	532057	317.70	314.38	506.4	556.9
100YR_3DAY	1P14	BASIN-S8	71.83	5.84	7.50	865525	318.97	312.25	582.9	517.2
100YR_3DAY	2K05	BASIN-S8	71.83	6.94	8.00	1617492	9.55	1.58	66.2	7.1
100YR_3DAY	2K06	BASIN-S8	71.83	6.94	8.00	376974	3.37	1.22	18.7	4.1
100YR_3DAY	2K07	BASIN-S8	71.83	6.93	8.00	805428	5.27	-1.18	31.0	-0.7
100YR_3DAY	2K08	BASIN-S8	71.83	6.93	8.00	633241	1.77	-3.21	19.2	-7.9
100YR_3DAY	2K09	BASIN-S8	71.83	6.99	8.00	1798252	6.28	1.45	53.2	-22.5
100YR_3DAY	2K10	BASIN-S8	71.83	6.99	8.00	270497	2.92	2.20	-13.0	-22.6
100YR_3DAY	2K11	BASIN-S8	71.83	6.99	8.00	155426	1.10	0.69	9.6	2.1
100YR_3DAY	2K12	BASIN-S8	71.83	6.92	8.00	1226725	16.20	11.11	73.9	25.6
100YR_3DAY	2K13	BASIN-S8	71.83	6.99	8.00	1088874	12.40	9.51	59.6	26.4
100YR_3DAY	2K14	BASIN-S8	71.83	6.97	8.00	8809	9.51	9.48	26.4	25.7
100YR_3DAY	2L09	BASIN-S8	71.83	6.93	8.00	3158054	14.22	-0.49	87.7	-32.2
100YR_3DAY	2L10	BASIN-S8	71.83	6.93	8.00	8735	-0.49	0.38	-32.2	-32.9
100YR_3DAY	2L11	BASIN-S8	71.83	6.93	8.00	1188837	12.71	6.77	65.2	38.8
100YR_3DAY	2L12	BASIN-S8	71.83	6.92	8.00	1444007	14.24	7.42	88.6	30.7
100YR_3DAY	2L13	BASIN-S8	71.83	6.77	8.00	2234585	12.42	-1.87	86.1	1.6
100YR_3DAY	2L14	BASIN-S8	71.83	6.77	8.00	1048383	2.73	-3.96	30.3	-8.8
100YR_3DAY	2L15	BASIN-S8	71.83	6.89	8.00	8721	-3.96	-4.00	-8.8	-9.4

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-8 72 HR NODAL STAGE REPORT FOR 100 YR 3 DAY STORM
 TABLE II-G-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
100YR_3DAY	2L18	BASIN-S8	71.83	6.96	8.00	1145445	8.18	4.93	67.5	18.5
100YR_3DAY	2L19	BASIN-S8	71.83	6.95	8.00	22145	4.93	4.86	18.5	17.4
100YR_3DAY	2L20	BASIN-S8	71.83	6.95	8.00	22099	4.86	4.79	17.4	16.3
100YR_3DAY	2010	BASIN-S8	71.83	5.73	7.50	801724	4.59	0.00	25.9	273.8
100YR_3DAY	2011	BASIN-S8	71.83	5.73	7.50	1057188	5.51	11.90	307.4	9.2
100YR_3DAY	2012	BASIN-S8	71.83	5.72	7.50	795832	16.49	15.69	35.1	305.4
100YR_3DAY	2013	BASIN-S8	71.83	5.72	7.50	1767332	25.06	22.86	362.2	30.1
100YR_3DAY	2014	BASIN-S8	71.83	5.71	7.50	705667	26.87	25.78	52.8	44.7
100YR_3DAY	2015	BASIN-S8	71.83	5.71	7.50	761771	4.59	3.06	25.9	15.1
100YR_3DAY	3L16	BASIN-S8	71.83	6.90	8.00	638834	2.86	0.00	16.4	-0.9
100YR_3DAY	3L17	BASIN-S8	71.83	6.90	8.00	638862	2.86	-2.17	15.4	-1.1
100YR_3DAY	B1-1	BASIN-S8	71.83	4.89	7.50	474474	-2.56	-9.41	2.9	-6.8
100YR_3DAY	B1-2	BASIN-S8	71.83	4.88	7.50	160826	-7.77	-10.10	-3.4	-6.9
100YR_3DAY	B1-3	BASIN-S8	71.83	4.83	7.50	920555	3.23	-10.18	10.3	-8.2
100YR_3DAY	B1-4	BASIN-S8	71.83	4.82	7.50	819160	5.08	-6.93	11.2	-5.1
100YR_3DAY	B1-5	BASIN-S8	71.83	4.81	7.50	780105	7.12	-4.26	12.5	-2.7
100YR_3DAY	B1-6	BASIN-S8	71.83	4.81	7.50	779521	9.15	-2.21	13.8	-1.4
100YR_3DAY	B2-0	BASIN-S8	71.83	5.11	7.50	263008	-8.53	-14.13	-3.7	-10.1
100YR_3DAY	B2-1	BASIN-S8	71.83	5.09	7.50	274623	4.18	-1.21	5.7	-0.9
100YR_3DAY	B2-2	BASIN-S8	71.83	5.08	7.50	271107	15.68	10.62	14.3	7.8
100YR_3DAY	B2-3	BASIN-S8	71.83	5.00	7.50	252115	12.19	7.96	17.1	11.4
100YR_3DAY	B2-4	BASIN-S8	71.83	4.99	7.50	413129	14.20	7.47	19.5	10.5
100YR_3DAY	B3-0	BASIN-S8	71.83	5.05	7.50	690803	-2.35	-16.47	2.1	-14.0
100YR_3DAY	B3-1	BASIN-S8	71.83	4.99	7.50	837695	3.67	-10.59	9.1	-9.4
100YR_3DAY	B3-2	BASIN-S8	71.83	4.99	7.50	216979	-1.49	-5.07	1.0	-4.0
100YR_3DAY	B3-3	BASIN-S8	71.83	4.98	7.50	216221	0.30	-3.16	4.4	3.7
100YR_3DAY	B3-3A	BASIN-S8	71.83	4.98	7.50	4301	1.85	1.78	7.6	-1.5
100YR_3DAY	B3-4	BASIN-S8	71.83	4.98	7.50	216715	3.68	0.46	5.1	0.1
100YR_3DAY	B3-5	BASIN-S8	71.83	4.98	7.50	216683	3.68	0.00	5.0	0.1
100YR_3DAY	B4-0	BASIN-S8	71.83	5.10	7.50	444697	-7.21	-16.56	-4.2	-15.0
100YR_3DAY	B4-1	BASIN-S8	71.83	5.02	7.50	760000	-0.27	-13.44	4.8	-12.3
100YR_3DAY	B4-2	BASIN-S8	71.83	5.01	7.50	334502	-2.64	-8.12	0.6	-6.9
100YR_3DAY	B4-3	BASIN-S8	71.83	5.00	7.50	333094	-3.04	-8.37	0.2	-7.2
100YR_3DAY	B4-4	BASIN-S8	71.83	4.98	7.50	390285	-2.61	-8.77	5.8	-7.6
100YR_3DAY	B4-5	BASIN-S8	71.83	4.98	7.50	319514	5.73	0.87	7.8	-0.6
100YR_3DAY	B4-5A	BASIN-S8	71.83	4.98	7.50	4291	0.87	0.80	-0.6	9.9
100YR_3DAY	B4-5B	BASIN-S8	71.83	4.98	7.50	4291	0.80	0.73	9.9	-22.2
100YR_3DAY	B4-5C	BASIN-S8	71.83	4.98	7.50	4290	0.73	0.67	-22.2	9.0
100YR_3DAY	B5-0	BASIN-S8	71.83	4.94	7.50	820586	13.77	0.00	17.7	0.0
100YR_3DAY	B5-1	BASIN-S8	71.83	4.95	7.50	822008	18.69	5.03	22.4	4.7
100YR_3DAY	B5-2	BASIN-S8	71.83	4.97	7.50	331309	15.27	9.95	16.7	9.3
100YR_3DAY	B5-3	BASIN-S8	71.83	4.98	7.50	422303	5.43	-1.24	8.1	-0.5
100YR_3DAY	B5-4	BASIN-S8	71.83	4.88	7.50	606934	8.25	-1.86	11.5	-0.9
100YR_3DAY	B5-4A	BASIN-S8	71.83	4.96	7.50	4255	-1.86	-1.93	-0.9	-1.3
100YR_3DAY	B6-0	BASIN-S8	71.83	4.95	7.50	671679	11.02	0.00	14.7	0.0
100YR_3DAY	B6-1	BASIN-S8	71.83	4.95	7.50	671984	13.77	2.78	17.6	3.3
100YR_3DAY	B6-2	BASIN-S8	71.83	4.96	7.50	158089	8.06	5.53	25.1	6.1
100YR_3DAY	B6-3	BASIN-S8	71.83	4.98	7.50	177098	10.27	7.48	13.8	-8.9
100YR_3DAY	B6-3A	BASIN-S8	71.83	4.97	7.50	4275	5.85	5.78	-10.5	20.5
100YR_3DAY	B6-4	BASIN-S8	71.83	5.00	7.50	322385	5.57	0.78	7.6	0.6
100YR_3DAY	B6-4A	BASIN-S8	71.83	4.99	7.50	4351	0.78	0.71	0.6	0.5
100YR_3DAY	B6-4B	BASIN-S8	71.83	4.98	7.50	4316	0.71	0.64	0.5	2.8
100YR_3DAY	B7-0	BASIN-S8	71.83	5.00	7.50	271977	4.44	0.00	6.2	0.0
100YR_3DAY	B7-1	BASIN-S8	71.83	5.00	7.50	755747	12.53	0.18	17.2	0.4
100YR_3DAY	B7-2	BASIN-S8	71.83	5.01	7.50	256904	9.02	4.86	11.4	5.6

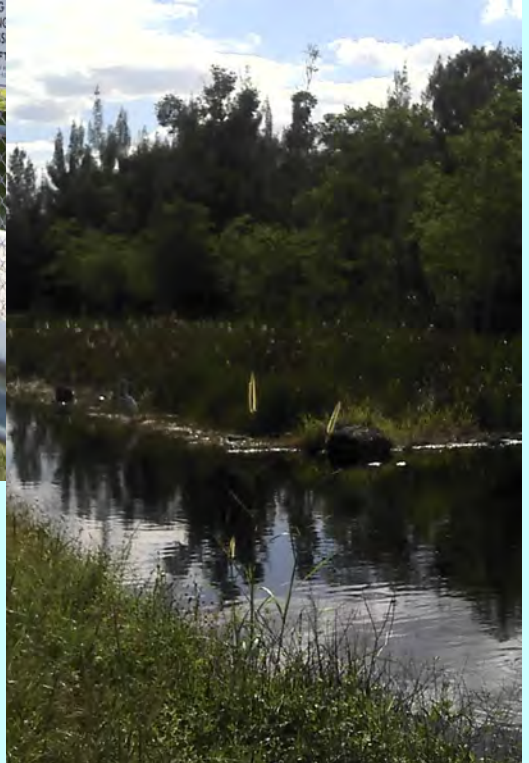
SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 BASIN S-8 72 HR NODAL STAGE REPORT FOR 100 YR 3 DAY STORM
 TABLE II-G-8

Simulation	Node	Group	Time	Stage	Warning	Surface	Total	Total	Total	Total
			hrs	ft	Stage	Area	Inflow	Outflow	Vol In	Vol Out
					ft	ft2	cfs	cfs	af	af
100YR_3DAY	B7-3	BASIN-S8	71.83	5.01	7.50	499954	12.78	4.77	16.8	5.6
100YR_3DAY	B7-4	BASIN-S8	71.83	5.01	7.50	279597	4.41	0.00	6.0	-0.3
100YR_3DAY	B7-4A	BASIN-S8	71.83	5.01	7.50	41397	0.00	-0.71	-0.3	-1.4
100YR_3DAY	B8-0	BASIN-S8	71.83	5.19	7.50	372436	-14.17	-19.68	-10.4	-19.9
100YR_3DAY	B8-1	BASIN-S8	71.83	5.17	7.50	484425	-9.26	-16.32	-10.5	-22.9
100YR_3DAY	B8-2	BASIN-S8	71.83	5.09	7.50	462927	-8.51	-15.57	-7.4	-18.6
100YR_3DAY	B8-3	BASIN-S8	71.83	5.05	7.50	184090	2.40	-0.49	4.8	0.4
100YR_3DAY	BC1-01	BASIN-S8	71.83	5.62	7.50	112517	293.13	290.47	502.4	547.9
100YR_3DAY	BC1-02	BASIN-S8	71.83	5.59	7.50	111359	291.02	288.09	553.0	488.1
100YR_3DAY	BC1-03	BASIN-S8	71.83	5.52	7.50	108649	288.64	285.14	493.1	543.4
100YR_3DAY	BC1-04	BASIN-S8	71.83	5.49	7.50	145619	285.69	280.53	548.5	506.2
100YR_3DAY	BC1-05	BASIN-S8	71.83	5.45	7.50	144328	264.52	258.92	496.3	516.5
100YR_3DAY	BC1-06	BASIN-S8	71.83	5.42	7.50	143224	327.66	321.61	665.2	634.3
100YR_3DAY	BC1-07	BASIN-S8	71.83	5.38	7.50	141474	308.03	301.20	629.3	653.3
100YR_3DAY	BC1-08	BASIN-S8	71.83	5.34	7.50	139922	301.75	303.87	658.4	626.4
100YR_3DAY	BC1-09	BASIN-S8	71.83	5.30	7.50	100546	304.43	0.00	631.4	632.1
100YR_3DAY	BC1-10	BASIN-S8	71.83	5.30	7.50	0	0.00	0.00	632.1	0.0
100YR_3DAY	BC2-01	BASIN-S8	71.83	5.00	7.50	643711	8.46	-1.85	11.7	-2.5
100YR_3DAY	BC2-02	BASIN-S8	71.83	4.99	7.50	320499	12.41	7.35	13.1	6.4
100YR_3DAY	BC2-03	BASIN-S8	71.83	4.97	7.50	635735	6.61	-3.68	17.7	-0.6
100YR_3DAY	BC2-04	BASIN-S8	71.83	4.97	7.50	579785	7.62	-1.79	14.4	-3.1
100YR_3DAY	BC2-04A	BASIN-S8	71.83	4.97	7.50	4271	-1.79	-1.86	-3.1	6.1
100YR_3DAY	BC2-05	BASIN-S8	71.83	4.96	7.50	486529	0.63	-7.25	4.1	-6.3
100YR_3DAY	BC2-06	BASIN-S8	71.83	4.92	7.50	476397	0.28	-7.19	4.2	-5.9
100YR_3DAY	BC2-07	BASIN-S8	71.83	4.92	7.50	475541	-0.10	-7.53	4.2	-5.8
100YR_3DAY	BC2-08	BASIN-S8	71.83	4.91	7.50	615953	1.51	-7.91	7.0	-5.8
100YR_3DAY	BC2-09	BASIN-S8	71.83	4.89	7.50	317606	-2.37	-6.96	2.0	-4.7
100YR_3DAY	BC2-10	BASIN-S8	71.83	4.89	7.50	328692	-3.52	-8.26	1.1	-6.0
100YR_3DAY	SV-A	BASIN-S8	71.83	6.09	7.50	530426	4.59	5.48	34.5	15.1
100YR_3DAY	SV-B	BASIN-S8	71.83	6.07	7.50	360562	2.79	3.16	19.8	8.9
100YR_3DAY	SV-C	BASIN-S8	71.83	6.09	7.50	253237	27.28	27.53	54.7	45.6
100YR_3DAY	SV-D	BASIN-S8	71.83	6.10	7.50	442226	2.93	3.41	21.5	6.1
100YR_3DAY	SV-E	BASIN-S8	71.83	6.07	7.50	122178	0.77	0.88	5.8	1.1
100YR_3DAY	SV-F	BASIN-S8	71.83	6.12	7.50	121463	0.92	1.10	6.6	2.9
100YR_3DAY	SV-H	BASIN-S8	71.83	6.12	7.50	109055	20.84	21.01	39.4	36.0
100YR_3DAY	SV-I	BASIN-S8	71.83	6.32	7.50	651515	4.28	6.64	31.7	7.7
100YR_3DAY	SV-J	BASIN-S8	71.83	6.26	7.50	612625	9.49	11.30	37.7	11.4
100YR_3DAY	SV-K	BASIN-S8	71.83	6.33	7.50	338574	4.94	6.22	27.7	20.2
100YR_3DAY	SV-L	BASIN-S8	71.83	6.25	7.50	121411	18.59	18.95	35.4	30.8
100YR_3DAY	SV-M	BASIN-S8	71.83	6.32	7.50	288682	8.39	9.45	28.1	17.0
100YR_3DAY	SV-N	BASIN-S8	71.83	6.30	7.50	341713	13.68	14.85	42.6	32.1
100YR_3DAY	SV-O	BASIN-S8	71.83	6.07	7.50	273230	2.08	2.34	14.9	6.5
100YR_3DAY	SV-P	BASIN-S8	71.83	6.09	7.50	423922	8.64	9.29	37.9	24.7
100YR_3DAY	SV-Q	BASIN-S8	71.83	6.07	7.50	7214655	222.91	229.37	601.1	336.7
100YR_3DAY	TG-1	BASIN-S8	71.83	6.41	7.50	5956068	44.75	23.63	256.4	27.1
100YR_3DAY	TG-2	BASIN-S8	71.83	6.19	7.50	1667327	25.60	26.84	95.6	52.1
100YR_3DAY	TG-3	BASIN-S8	71.83	6.23	7.50	2173353	35.57	35.66	115.9	40.1
100YR_3DAY	TG-4	BASIN-S8	71.83	6.41	7.50	373318	1.88	0.56	14.1	0.7
100YR_3DAY	TG-5	BASIN-S8	71.83	6.47	7.50	4344532	23.32	16.27	178.7	47.3
100YR_3DAY	TG-6	BASIN-S8	71.83	6.33	7.50	1254769	8.39	13.23	69.2	31.1
100YR_3DAY	WP-1	BASIN-S8	71.83	6.09	7.50	9261993	55.50	70.50	412.3	79.8

SOUTH BROWARD DRAINAGE DISTRICT



BASINS S-9 and S-10



BASINS S-9 AND S-10

DESCRIPTION

Basins S-9 and S-10 are located in the northwest quadrant of SBDD and have a total area of approximately 11 square miles. Both basins include portions of the Town of Southwest Ranches and the City of Pembroke Pines.

The basin boundaries and existing facilities for the S-9 and S-10 basins are presented in Figure II-H-1, and Table II-H-1 provides a summary of the Basin S-9/S-10 characteristics. For purposes of the Facilities Report, Basin S-9 and Basin S-10 have been modeled and are represented as a single, interconnected drainage basin.

The land use in these basins is a mixture of rural and urban residential development, and includes a concentration of commercial and industrial uses west of SW 196th Avenue. Most of Section 11 is a wetland preserve and a part of the Florida Wetlands Bank.

Basins S-9/S-10 have three (3) primary control structures that regulate discharge into the SFWMD C-11 Canal and three (3) intermediate control structures that regulate discharge from the City of Pembroke Pines into the Town of SW Ranches. Discharge from the basin is conveyed through three SBDD primary canals: Canal 12, Canal 13, and Canal 13A. The two basins are hydraulically connected through triple 54" diameter culverst at the Laguna Isles residential development, south of Stirling Road (#9-59.1, #9-59.2, and #9-59.3).

Since 2013, there has been very limited new development within the S-9/S-10 Basins and all of the required water management systems (lake areas) are in place and operational.

The following improvements have been completed within the S-9/S-10 Basins since 2013:

- SBDD and the Town of SW Ranches modified the S-9/S-10 SFMWD Basin Permit to allow for the permanent, year-round operation of the three (3) intermediate control structures at the southern limits of the Town of SW Ranches at SBDD Canal No.12 (ICS-12), SBDD Canal No. 13 (ICS-13) and SBDD Canal No. 13A (ICS-13A). These intermediate structures were installed in 2011 as part of a pilot project under a Memorandum of Agreement (MOA) among SFWMD, SW Ranches, SBDD and the Department of Agriculture and Consumer Services with the primary objectives to lower groundwater elevations in SW Ranches and improve water quality. SBDD and SW Ranches were able to demonstrate that the objectives under the MOA were met, and the SFWMD S-9/S-10 Basin Permit was modified accordingly.
- Modified the Chapel Trail outfall structure to allow for maximum flow through the existing twin 72" culverts under Sheridan Street (#10-12).

- Removed the concrete weir leading from the Keystone Lake development to allow for maximum flow from Keystone Lake, Chapel Trail, and Silver Lakes under Sheridan Street (#9-6).
- Completed drainage improvements to SW 55th Street & SW 185th Way (cost-share with Town of SW Ranches).
- Completed drainage improvements to SW 54th Place at SW 196th Lane (cost-share with Town of SW Ranches).
- Completed swale improvements at SW 210th Terrace in conjunction with the Town of SW Ranches.
- The rear-yard swale/ditch at SW 205th Avenue was replaced with elliptic pipe and yard drains as part of the Franklin Academy project.
- A 48" RCP inter-connect was installed from the Franklin Academy Lake to the Trials Lake (#10-119).
- Installed a manually operated control gate at the basin divide between Basin S-5 and Basin S-9/S-10 at Pines Boulevard with an electric motor, telemetry antenna and tie-in to the District's telemetry control system. This gate provides the District more flexibility in operating and managing the overall water management system between the S-9/S-10 Basins and the S-5 Basin, especially during extreme rainfall events (#9-84).
- Completed lateral swale/ditch improvements at SW 199th Avenue.
- Completed swale and drainage improvements along SW 205th Avenue.
- Improved the conveyance channel leading from the Hidden Lake community into the Chapel Trail outfall canal.
- Performed miscellaneous tree removal work throughout Basin S-9/S-10.
- Performed miscellaneous culvert cleanings.
- Completed miscellaneous boat ramp improvements.

The following new developments have been completed:

- * SW 207th Avenue (City of Pembroke Pines); Franklin Academy Middle School & High School; Bergeron Distribution Center; Bryd Tree Farm; TWS Fabricators; Caliber Collision; Bergeron Outdoor Storage; South Florida Distribution Center; Chapel Grove; and Ryder Center.

The following infrastructure improvements are proposed for the S-9/S-10 Basins:

- Continued hardening of lake banks and headwalls at critical lake/canal interconnect locations.
- Continued installation of boat ramps for improved access by SBDD maintenance crews.
- Miscellaneous swale and culvert repairs/replacements.

METHODOLOGY

The water management systems for Basins S-9/S-10 are interconnected with regulated discharge to the SFWMD C-11 Canal through three (3) control structures located on SBDD Canal Nos. 12, 13 and 13A. These structures provide for the total water quality

treatment required for the basins and have a combined maximum discharge rate of 363 cfs. Water quality requirements and discharge rates from the S-9 and S-10 Basins are regulated by the SFWMD Permit # 06-01400-S.

The control elevation for Basins S-9/S-10 was modified to 4.0' NGVD in 2004. Three intermediate control structures were installed in 2011 to allow SBDD to lower the control water elevation in the SW Ranches area to elevation 3.0' NGVD during the rainy season as dictated under the pilot program described above. The installation of the intermediate control structures was permitted under a modification to the SFWMD Permit.

Figure II-H-1 depicts the existing facilities in Basins S-9/S-10 and Table II-H-2 provides the existing culvert schedule for the basins. Figures II-H-2, II-H-3, II-H-4, and II-H-5 show the existing flood gates, control structures, staff gauges, and fish guards within the basins, respectively, with corresponding Schedule Tables II-H-3, II-H-4, II-H-5 and II-H-6.

MODEL ANALYSIS

The AdICPR model for Basins S-9/S-10 has been updated to reflect the current operating conditions of these interconnected basins.

All discharge structures for the primary canals were modeled as gated drop structures with a maximum, permitted discharge rate of 363 cfs. The intermediate structures were modeled as open culvert connections since these structures do not have any discharge or water quality restrictions.

The flood stages at critical locations in Basins S-9/S-10 were evaluated to ensure that the required Level of Service for both basins is being met.

Based on the AdICPR model results, all properties within Basins S-9/S-10 meet the District's adopted Level of Service. The model results also show that SBDD's three primary canals which serve the basins, Canal No. 12, Canal No. 13 and Canal No. 13A are not restrictive and the peak stages and cumulative head loss in these canals are acceptable. The required water quality for the basins is provided through three control structures located south of the SFWMD C-11 Canal.

Figure II-H-6 shows the AdICPR nodal diagram for Basins S-9/S-10 and Tables II-H-7 and II-H-8 list the AdICPR output data for maximum stages and 72-hour stages at each node within the basins.

SUMMARY & RECOMMENDATIONS

The model results show that Basins S-9/S-10 are adequately served by the existing water management and conveyance systems that are currently in place; and that both basins meet the District's adopted Level of Service. The required water quality for the basins is met behind SBDD Control Structures 12, 13 and 13A and these structures regulate the total allowable discharge of 363 cfs to the SFWMD C-11 Canal.

The installation and year-round operation of the intermediate control structures has allowed SBDD to maintain lower water table elevations in SW Ranches, and has resulted in lower flood stages and a reduction in the duration of peak stages.

The following basin improvements are recommended:

- Install a second 42” diameter culvert under Johnson Street at Rose G. Price Park to increase the discharge capacity from the Chapel Trail residential communities to the C-11 Canal (#10-30).
- Install a seepage management stormwater pump station to be located east of US 27 and north of Pines Boulevard to help reduce the impacts of seepage from the Florida Everglades Conservation Area 3A on the residential communities and businesses in this area. This will be part of a joint project and funding request with the City of Pembroke Pines, and will require approval from the SFWMD.

In addition, SBDD will continue to work with the Town of SW Ranches and City of Pembroke Pines to identify other drainage improvement projects which will benefit the basin.

All undeveloped areas and redevelopment projects to provide a minimum of 20% water management area, or equivalent.

TABLE II-H-1

**SUMMARY OF BASIN CHARACTERISTICS
BASIN S-9 & 10**

GENERAL

TOTAL BASIN AREA	(AC)	6925
TOTAL PERVIOUS AREA	(AC)	3265 (47%)
TOTAL IMPERVIOUS AREA	(AC)	2410 (35%)
LAKE AREA	(AC)	1250 (18%)
DESIGN CONTROL ELEVATION	(FT NGVD)	4.00
10-YEAR 3-DAY FLOOD ELEVATION (MINIMUM ROAD CROWN)	(FT NGVD)	6.50
100-YEAR 3-DAY FLOOD ELEVATION (MINIMUM FINISHED FLOOR ELEVATION)	(FT NGVD)	8.00

Note:

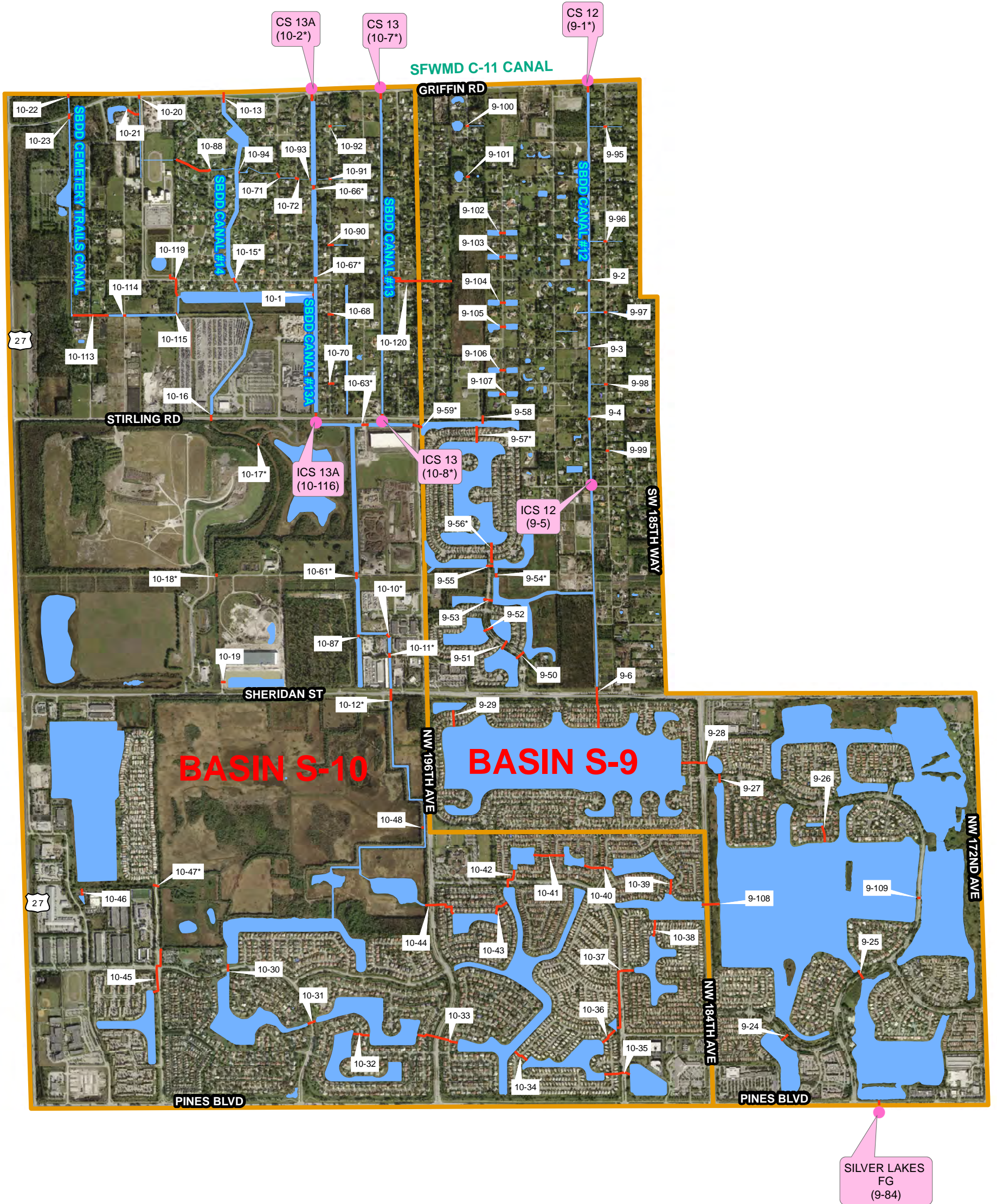
All undeveloped areas are required to have a minimum of 20% water management area and to comply with all SFWMD and SBDD minimum design criteria.

S.F.W.M.D. PERMIT CONDITIONS (PERMIT # 06-01400-S)

DISCHARGE CONTROL STRUCTURES		FLOOD GATES
MAXIMUM ALLOWABLE DISCHARGE		
SBDD Canal No. 12	(CFS)	121
SBDD Canal No. 13	(CFS)	121
SBDD Canal No. 13A	(CFS)	121
RECEIVING WATER		SFWMD C-11

CANAL

CANAL NAME		SBDD No 12
LENGTH	(FT)	11,700
MANNING'S "n"		0.033
CANAL NAME		SBDD No 13
LENGTH	(FT)	11,700
MANNING'S "n"		0.033
CANAL NAME		SBDD No 13A
LENGTH	(FT)	6,300
MANNING'S "n"		0.033



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-9 & S-10 EXISTING FACILITIES MAP

Legend

- Major Control Structures
- ~ SFWMD Canal
- Culverts
- Water Bodies

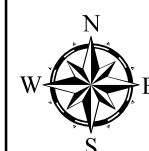


FIGURE II-H-1

TABLE II-H-2

BASIN S-9 & S-10 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
9-1.1	SBDD CS-12	18840 Griffin Rd.	72	RCP	CIRC.	234	Flood Gate
9-1.2	SBDD CS-12	18840 Griffin Rd.	72	RCP	CIRC.	234	Flood Gate
9-2	SBDD Canal 12	SW 188th Ave. Canal & SW 54th Pl.	60	CMP	CIRC.	45	
9-3	SBDD Canal 12	SW 188th Ave. Canal & SW 57th Ct.	60	CMP	CIRC.	50	
9-4	SBDD Canal 12	SW 188th Ave. Canal & Stirling Rd.	60	RCP	CIRC.	48	
9-5	SBDD ICS-12	18850 SW 63rd Ct.	60	RCP	CIRC.	65	Flood Gate
9-6	Keystone Lake - Outfall	SW 188th Ave. Canal & Sheridan St.	72	RCP	CIRC.	796	
9-24	Silver Lakes	(W) of NW 178th Ave. & NW 9th St.	48	RCP	CIRC.	178	
9-25	Silver Lakes	NW 178th Ave. & NW 10th St.	72	RCP	CIRC.	190	
9-26	Silver Lakes - Sunset Isles	(W) of NW 180th Way & NW 15th Ct.	24	RCP	CIRC.	329	
9-27	Silver Lakes	(E) of NW 184th Ave. & NW 17th St.	72	RCP	CIRC.	170	
9-28	Silver Lakes / Keystone Lakes	NW 184th Ave. & (N) of NW 17th St.	72	RCP	CIRC.	508	
9-29	Keystone Lakes	19442 NW 24th Pl.	48	RCP	CIRC.	320	
9-50	Laguna Isles	SW 193rd Ave. & (N) of Sheridan St.	48	RCP	CIRC.	200	
9-51	Laguna Isles	SW 193rd Ave. & SW 68th St.	48	RCP	CIRC.	200	
9-52	Laguna Isles	SW 193rd Ave. & (S) of SW 66th St.	48	RCP	CIRC.	200	
9-53	Laguna Isles	SW 193rd Ave. & (N) of SW 66th St.	48	RCP	CIRC.	190	
9-54.1	Laguna Isles	(E) of SW 193rd Ave. & (N) of SW 66th St.	54	RCP	CIRC.	78	
9-54.2	Laguna Isles	(E) of SW 193rd Ave. & (N) of SW 66th St.	54	RCP	CIRC.	78	
9-54.3	Laguna Isles	(E) of SW 193rd Ave. & (N) of SW 66th St.	54	RCP	CIRC.	78	
9-55	Laguna Isles	SW 193rd Ave. & (S) of SW 65th St.	54	RCP	CIRC.	142	
9-56.1	Laguna Isles	SW 193rd Ave. & SW 65th St.	54	RCP	CIRC.	350	
9-56.2	Laguna Isles	SW 193rd Ave. & SW 65th St.	54	RCP	CIRC.	365	
9-56.3	Laguna Isles	SW 193rd Ave. & SW 65th St.	54	RCP	CIRC.	379	
9-57.1	Laguna Isles	(E) of SW 195th Ave. & SW 60th St.	72	RCP	CIRC.	320	
9-57.2	Laguna Isles	(E) of SW 195th Ave. & SW 60th St.	72	RCP	CIRC.	320	
9-58	Children's Harbour	(E) of SW 196th Ave. & Stirling Rd.	48	RCP	CIRC.	165	
9-59.1	West Broward Industrial Park	SW 196th Ave. & Stirling Rd. - North Pipe	54	RCP	CIRC.	185	
9-59.2	West Broward Industrial Park	SW 196th Ave. & Stirling Rd. - Center Pipe	54	RCP	CIRC.	185	
9-59.3	West Broward Industrial Park	SW 196th Ave. & Stirling Rd. - South Pipe	54	RCP	CIRC.	185	
9-84	Silver Lakes - Flood Gate	(E) of NW 178th Ave. & Pines Blvd.	72	CMP	CIRC.	233	Flood Gate
9-95	Country Estates	4831 SW 188th Ave.	36	CMP	CIRC.	74	

TABLE II-H-2

BASIN S-9 & S-10 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
9-96	Country Estates	5191 SW 188th Ave.	24 X 48	CMP	ELLIP.	76	
9-97	Country Estates	5491 SW 188th Ave.	24 X 48	CMP	ELLIP.	67	
9-98	Country Estates	5781 SW 188th Ave.	24 X 48	CMP	ELLIP.	76	
9-99	Country Estates	6121 SW 188th Ave.	24 X 48	CMP	ELLIP.	65	
9-100	Frontier Trails	4830 SW 193rd Ln.	24 X 48	CMP	ELLIP.	70	
9-101	Frontier Trails	4970 SW 193rd Ln.	24 X 48	CMP	ELLIP.	76	
9-102	Westfield Estates	(S) of 5150 SW 192nd Terrace	15	CAP	CIRC.	136	
9-103	Westfield Estates	(S) of 5225 SW 192nd Terrace	15	CAP	CIRC.	118	
9-104	Westfield Estates	(S) of 5450 SW 192nd Terrace	15	CAP	CIRC.	118	
9-105	Westfield Estates	(S) of 5550 SW 192nd Terrace	15	CAP	CIRC.	118	
9-106	Westfield Estates	(N) of 5855 SW 192nd Terrace	15	CAP	CIRC.	125	
9-107	Westfield Estates	(S) of 5855 SW 192nd Terrace	15	CAP	CIRC.	126	
9-108	Silver Lakes / Chapel Trail	NW 184th Ave. & (N) of NW 9th St.	84	RCP	CIRC.	345	
9-109	Silver Lakes	NW 178th Ave. & (N) of NW 15th St.	BRIDGE				
10-1	Trails	SW 199th Ave. & (S) of SW 54th Pl.	84	CAP	CIRC.	30	
10-2.1	SBDD CS-13A	4701 SW 199th Ave.	72	RCP	CIRC.	227	Flood Gate
10-2.2	SBDD CS-13A	4701 SW 199th Ave.	72	RCP	CIRC.	227	Flood Gate
10-7.1	SBDD CS-13	19640 Griffin Rd.	72	RCP	CIRC.	227	Flood Gate
10-7.2	SBDD CS-13	19640 Griffin Rd.	72	RCP	CIRC.	227	Flood Gate
10-8.1	SBDD ICS-13	19800 Stirling Rd.	66	CMP	CIRC.	162	Flood Gate
10-8.2	SBDD ICS-13	19800 Stirling Rd.	66	CMP	CIRC.	162	Flood Gate
10-10.1	SBDD Canal 13 / W. Broward Industrial Park	(W) of SW 196th Ave. & (S) of Deer Creek Pass	72	RCP	CIRC.	90	
10-10.2	SBDD Canal 13 / W. Broward Industrial Park	(W) of SW 196th Ave. & (S) of Deer Creek Pass	72	RCP	CIRC.	90	
10-11.1	SBDD Canal 13 / W. Broward Industrial Park	(W) of SW 196th Ave. & Dun Raven Pass	66	RCP	CIRC.	98	
10-11.2	SBDD Canal 13 / W. Broward Industrial Park	(W) of SW 196th Ave. & Dun Raven Pass	66	RCP	CIRC.	98	
10-12.1	Chapel Trail - Outfall	(W) of SW 196th Ave. & Sheridan St.	66	CMP	CIRC.	228	
10-12.2	Chapel Trail - Outfall	(W) of SW 196th Ave. & Sheridan St.	66	CMP	CIRC.	228	
10-13	Trails of El Rancho Acres	(W) of SW 202nd Ave. & Griffin Rd.	48	CMP	CIRC.	206	Plugged Outfall
10-15.1	Trails	20306 SW 54th Pl.	60	RCP	CIRC.	106	
10-15.2	Trails	20306 SW 54th Pl.	60	RCP	CIRC.	106	
10-16	Broward County Landfill / Insurance Auto	Stirling Rd. & (W) of SW 199th Ave.	96	RCP	CIRC.	120	
10-17.1	Broward County Landfill	Broward County Landfill	42	CMP	CIRC.	40	

TABLE II-H-2

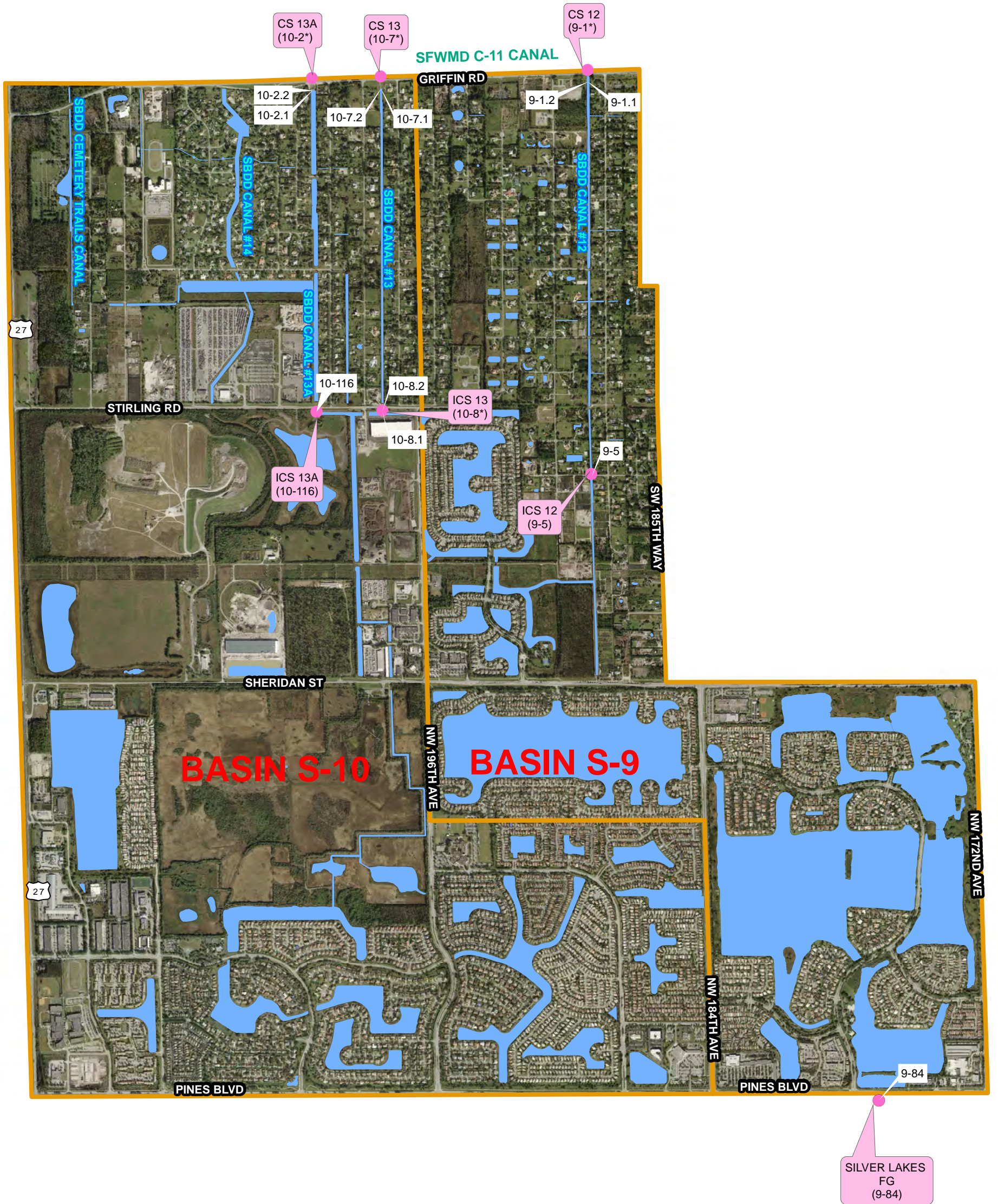
BASIN S-9 & S-10 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
10-17.2	Broward County Landfill	Broward County Landfill	42	CMP	CIRC.	40	
10-17.3	Broward County Landfill	Broward County Landfill	42	CMP	CIRC.	40	
10-18.1	Broward County Landfill	Broward County Landfill	66	CMP	CIRC.	60	
10-18.2	Broward County Landfill	Broward County Landfill	66	CMP	CIRC.	60	
10-19	South Florida Distribution Center	20311 Sheridan St.	48	RCP	CIRC.	92	
10-20	Assembly Hall of Jehova's Witness	(N) of 20850 Griffin Rd.	48	RCP	CIRC.	80	Plugged Outfall
10-21	Assembly Hall of Jehova's Witness	20850 Griffin Rd.	48	RCP	CIRC.	258	Control Structure
10-22	Menorah Gardens & Funeral Chapels	(N) of 21100 Griffin Rd.	48	CMP	CIRC.	85	
10-23	Menorah Gardens & Funeral Chapels	21100 Griffin Rd.	60	RCP	CIRC.	105	Plugged Outfall
10-30	Chapel Trail - Rose Price Park	(E) of NW 208th Ave. & Johnson St.	42	RCP	CIRC.	145	
10-31	Chapel Trail	NW 202nd Ave. & (N) of NW 4th St.	36	CMP	CIRC.	164	
10-32	Chapel Trail - Pasadena Estates	440 NW 200th Ave.	36	CAP	CIRC.	320	
10-33	Chapel Trail - Pasadena Estates	NW 197th Ave. & (N) of NW 4th St.	42	RCP / CMP	CIRC.	810	
10-34	Chapel Trail - Chapel Oaks	NW 190th Ave. & (N) of NW 1st St.	48	RCP	CIRC.	309	
10-35	Chapel Trail	NW 186th Ave. & (S) of NW 3rd St.	24	RCP	CIRC.	503	
10-36	Chapel Trail - Chapel Oaks	NW 187th Ave. & NW 5th St.	48	RCP	CIRC.	351	
10-37	Chapel Trail - Chapel Lake Estates	NW 186th Ave. & NW 11th St.	36	RCP / CMP	CIRC.	1440	
10-38	Chapel Trail - Chapel Lake Estates	18449 NW 13th St.	36	RCP / CMP	CIRC.	325	
10-39	Chapel Trail - Dimensions North	(E) of NW 185th Ave. & NW 19th St.	30	RCP / CMP	CIRC.	295	
10-40	Chapel Trail - Dimensions North	NW 185th Way & (N) of NW 20th St.	30 - 36	RCP / CMP	CIRC.	540	
10-41	Chapel Trail - Profiles II	NW 190th Ave. & (N) of NW 19th St.	30 - 48	RCP / CMP	CIRC.	614	
10-42	Chapel Trail / Tapestry	NW 193rd Ave. & Taft St.	42	RCP / CMP	CIRC.	433	
10-43	Chapel Trail - Chapel Trail Estates	1250 NW 193rd Ave.	60	RCP	CIRC.	367	
10-44	Chapel Trail Estates / Florida Wetlands Bank	NW 196th Ave. & (S) of Taft St.	60	RCP	CIRC.	715	
10-45	Chapel Trail - Malibu Bay	NW 208th Ave. & NW 7th St.	42	CMP	CIRC.	995	
10-46	Chapel Trail Commerce Center - Cintas	1111 NW 209th Ave.	24	CMP	CIRC.	131	
10-47.1	Chapel Trail - Hidden Lake	NW 208th Ave. & (S) of NW 14th St.	48	RCP	CIRC.	125	
10-47.2	Chapel Trail - Hidden Lake	NW 208th Ave. & (S) of NW 14th St.	48	CMP	CIRC.	125	
10-48	Florida Wetlands Bank - Control Structure	Florida Wetlandsbank & (N) of Taft St.	48	RCP	CIRC.	45	Control Structure
10-61.1	SBDD Canal 13 & FPL Lines	SBDD Canal 13 & FPL Lines	72	RCP	CIRC.	132	
10-61.2	SBDD Canal 13 & FPL Lines	SBDD Canal 13 & FPL Lines	72	RCP	CIRC.	132	
10-63.1	COPP Fire Station # 101	(W) of SW 196th Ave. & Stirling Rd.	84	RCP	CIRC.	138	

TABLE II-H-2

BASIN S-9 & S-10 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
10-63.2	COPP Fire Station # 101	(W) of SW 196th Ave. & Stirling Rd.	84	RCP	CIRC.	138	
10-66.1	Seligman/Durango Estates	199th Ave. & SW 50th Manor	60	RCP	CIRC.	80	
10-66.2	Seligman/Durango Estates	199th Ave. & SW 50th Manor	60	RCP	CIRC.	80	
10-67.1	Trails	(W) of SW 199th Ave. & SW 54th Pl.	60	RCP	CIRC.	120	
10-67.2	Trails	(W) of SW 199th Ave. & SW 54th Pl.	60	RCP	CIRC.	120	
10-68	Durango Estates	5600 SW 199th Ave.	30	CAP	CIRC.	122	
10-70	Durango Estates	5900 SW 199th Ave.	30	CAP	CIRC.	122	
10-71	Trails of El Rancho Acres	(N) of 20201 SW 50th Pl.	18 X 24	CMP	ELLIP.	110	
10-72	Trails of El Rancho Acres	Front of 5020 SW 201st Ter.	30	CMP	CIRC.	85	
10-87	WBIP - Central Concrete Supermix	(W) of SW 196th Ave. & Dun Raven Pass	24	RCP	CIRC.	50	Control Structure
10-88.1	Trails of El Rancho Acres	SW 205th Ave. & (S) of SW 49th Ct.	24 X 35 & 18	CAP / RCP	VARIABLES	724	
10-88.2	Trails of El Rancho Acres	SW 205th Ave. & (S) of SW 49th Ct.	24 X 35 & 18	CAP / RCP	VARIABLES	724	
10-90	Durango Estates	5310 SW 199th Ave.	30	CMP	CIRC.	125	
10-91	Seligman / Durango Estates	5020 SW 199th Ave.	30 X 36	CMP	ELLIP.	65	
10-92	Seligman / Durango Estates	4810 SW 199th Ave.	30 X 36	CMP	ELLIP.	65	
10-93	Seligman / Durango Estates	(E) of 5020 SW 201st Ter.	30	CMP	CIRC.	25	
10-94	Trails of El Rancho Acres	Behind 20230 SW 49th Ct.	18	CMP	CIRC.	24	
10-113	Cemetery Trails Canal	5425 SW 210th Ter.	60	RCP	CIRC.	689	
10-114	Rose Tree Farm	5400 SW 208th Lane	60	RCP	CIRC.	64	
10-115	Trails Lake / Cemetery Trails	Behind 20526 SW 54th Pl.	60	RCP	CIRC.	24	
10-116	SBDD ICS-13A	19950 Stirling Rd.	84	RCP	CIRC.	195	Flood Gate
10-119	Franklin Academy / Durango	20526 SW 54th Pl.	48	RCP	CIRC.	526	
10-120	Green Glades / Frontier Trails Park	SW 195th Ter. & SW 54th Pl.	18 & 24 & 48	CMP / RCP	CIRC.	1731	



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-9 & S-10 FLOOD GATE MAP

2019 UPDATE

Legend

- Flood Gate
- Major Control Structures
- SFWMD Canal
- Water Bodies

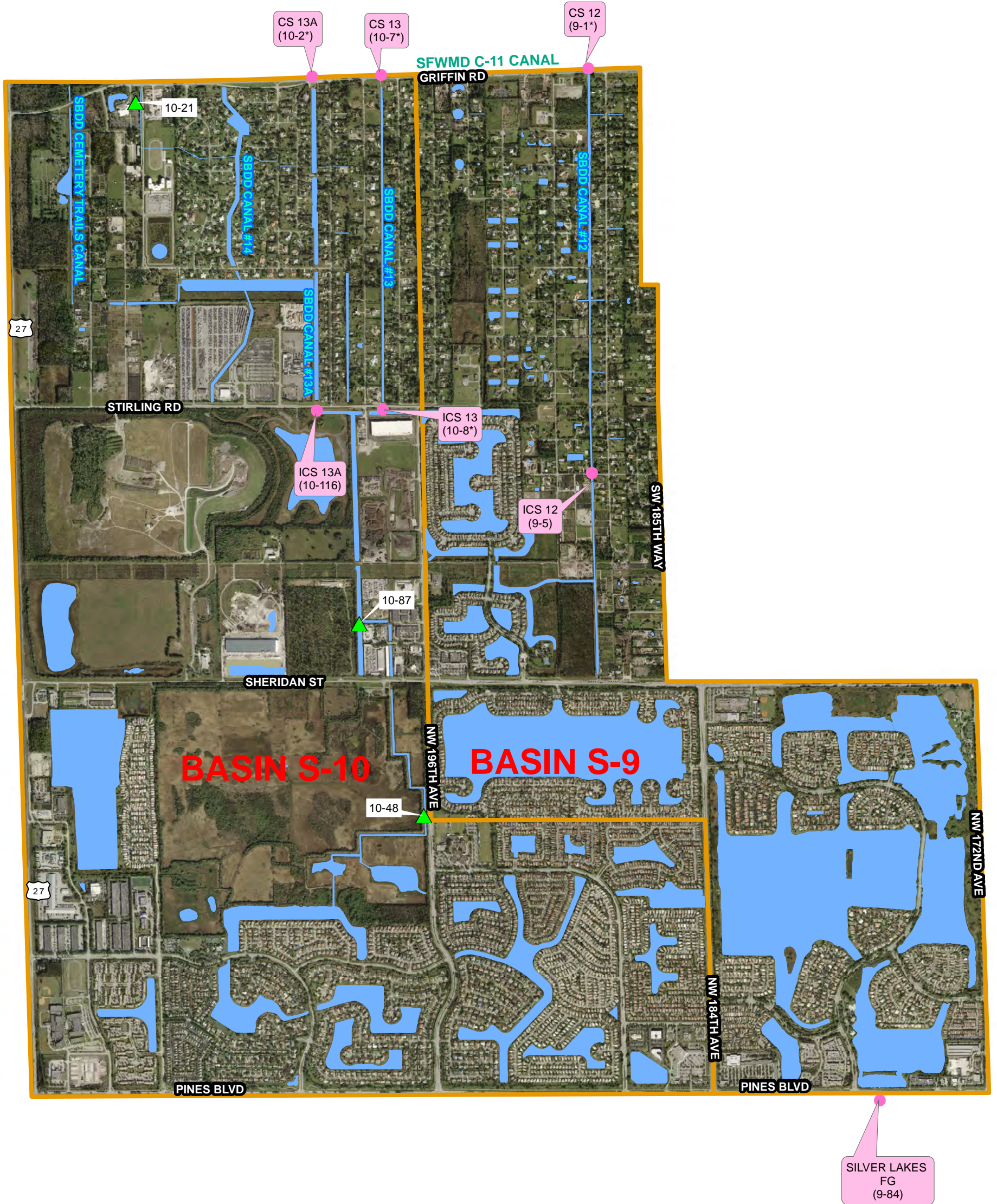


FIGURE II-H-2

TABLE II-H-3

BASIN S-9 & S-10 FLOOD GATE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
9-1.1	SBDD Control Structure 12	Griffin Rd. & 196th Ln.	72" W X 72" H
9-1.2	SBDD Control Structure 12	Griffin Rd. & 196th Ln.	72" W X 72" H
9-5	SBDD ICS-12	18850 SW 63rd St.	60" W X 60" H
9-84	Silver Lakes	Pines Blvd. & (E) of SW 178th Ave.	78" X 78" CIRC.
10-2.1	SBDD Control Structure 13-A	4701 SW 199th Ave.	72" W X 72" H
10-2.2	SBDD Control Structure 13-A	4701 SW 199th Ave.	72" W X 72" H
10-7.1	SBDD Control Structure 13	Griffin Rd. & 198th Ter.	72" W X 72" H
10-7.2	SBDD Control Structure 13	Griffin Rd. & 198th Ter.	72" W X 72" H
10-8.1	SBDD ICS-13	19800 SW 60th St.	66" W X 66" H
10-8.2	SBDD ICS-13	19800 SW 60th St.	66" W X 66" H
10-116	SBDD ICS-13A	19950 SW 60th St.	84" W X 84" H



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-9 & S-10 CONTROL STRUCTURE MAP

Legend

- Major Control Structures
- ▲ Control Structures
- SFWMD Canal
- Water Bodies

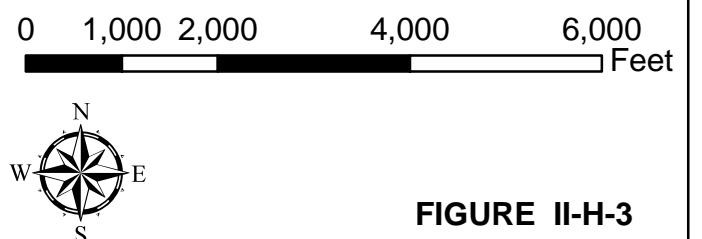
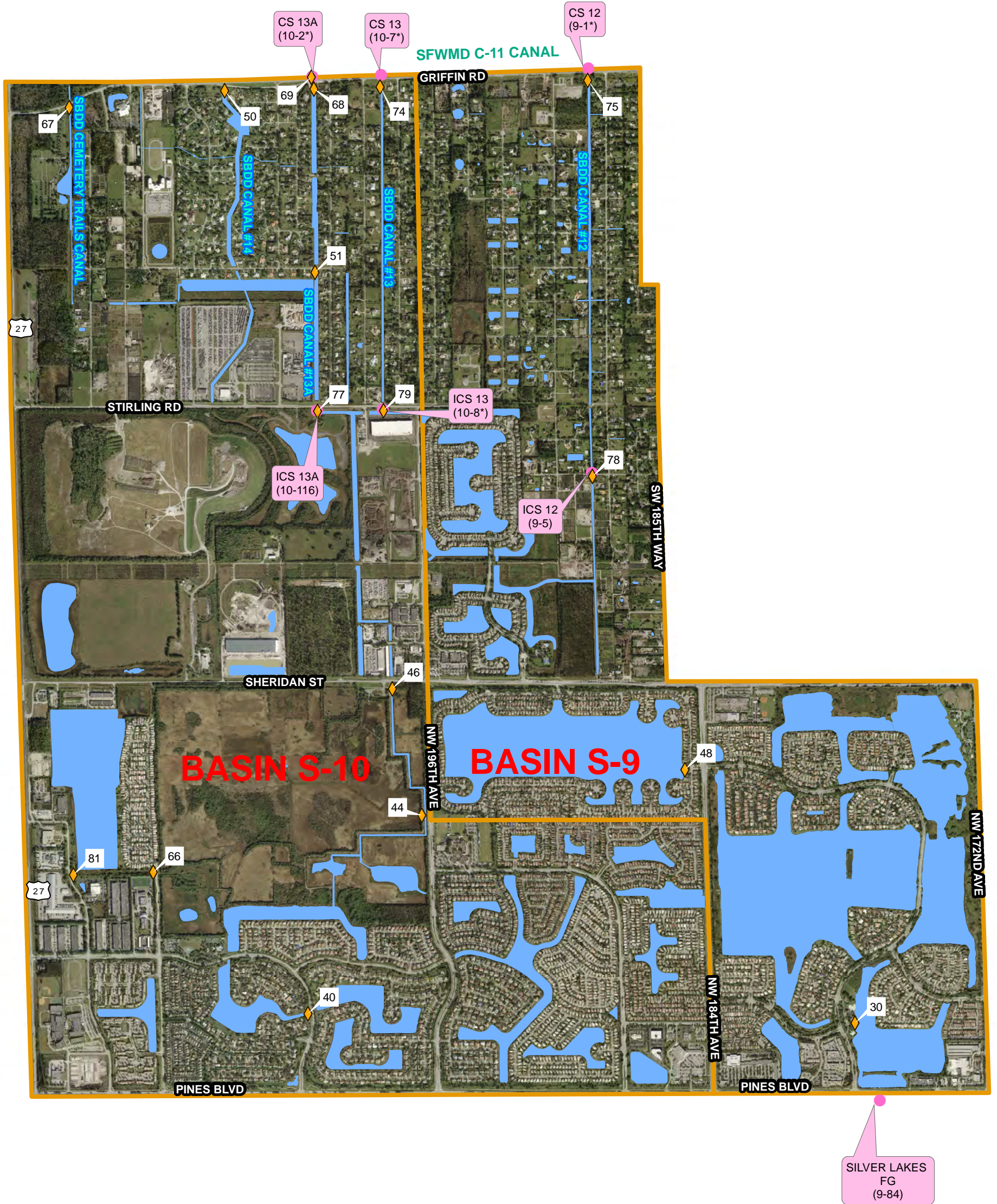


FIGURE II-H-3

TABLE II-H-4

BASIN S-9 & S-10 CONTROL STRUCTURE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>General Comments</i>
9-1.1	SBDD Control Structure 12	Griffin Rd. & 196th Ln.	72" W X 72" H
9-1.2	SBDD Control Structure 12	Griffin Rd. & 196th Ln.	72" W X 72" H
9-5	SBDD ICS-12	18850 SW 63rd St.	60" W X 60" H
9-84	Silver Lakes	Pines Blvd. & (E) of SW 178th Ave.	78" X 78" CIRC.
10-2.1	SBDD Control Structure 13-A	4701 SW 199th Ave.	72" W X 72" H
10-2.2	SBDD Control Structure 13-A	4701 SW 199th Ave.	72" W X 72" H
10-7.1	SBDD Control Structure 13	Griffin Rd. & 198th Ter.	72" W X 72" H
10-7.2	SBDD Control Structure 13	Griffin Rd. & 198th Ter.	72" W X 72" H
10-8.1	SBDD ICS-13	19800 SW 60th St.	66" W X 66" H
10-8.2	SBDD ICS-13	19800 SW 60th St.	66" W X 66" H
10-21	Kingdom Hall of Jehova's Witness	20850 Griffin Rd.	
10-48	Wetlands Bank	1.25 Miles (S) of Sheridan St. & (W) of SW 196th Ave.	Concrete Weir w/ 6" Rect. Notch @ 4.00 NGVD
10-87	West Broward Industrial Park (S)	19703 Dun Raven Pass	Concrete Weir w/ 6" Bleeder @ 4.00 NGVD
10-116	SBDD ICS-13A	19950 SW 60th St.	84" W X 84" H



**SOUTH BROWARD DRAINAGE DISTRICT
BASIN: S-9 & S-10 STAFF GAUGE MAP**

2019 UPDATE

Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™

Legend

- Major Control Structures
- ◆ Staff Gauge
- SFWMD Canal
- Water Bodies

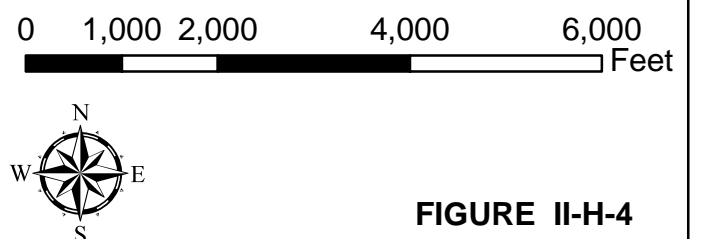
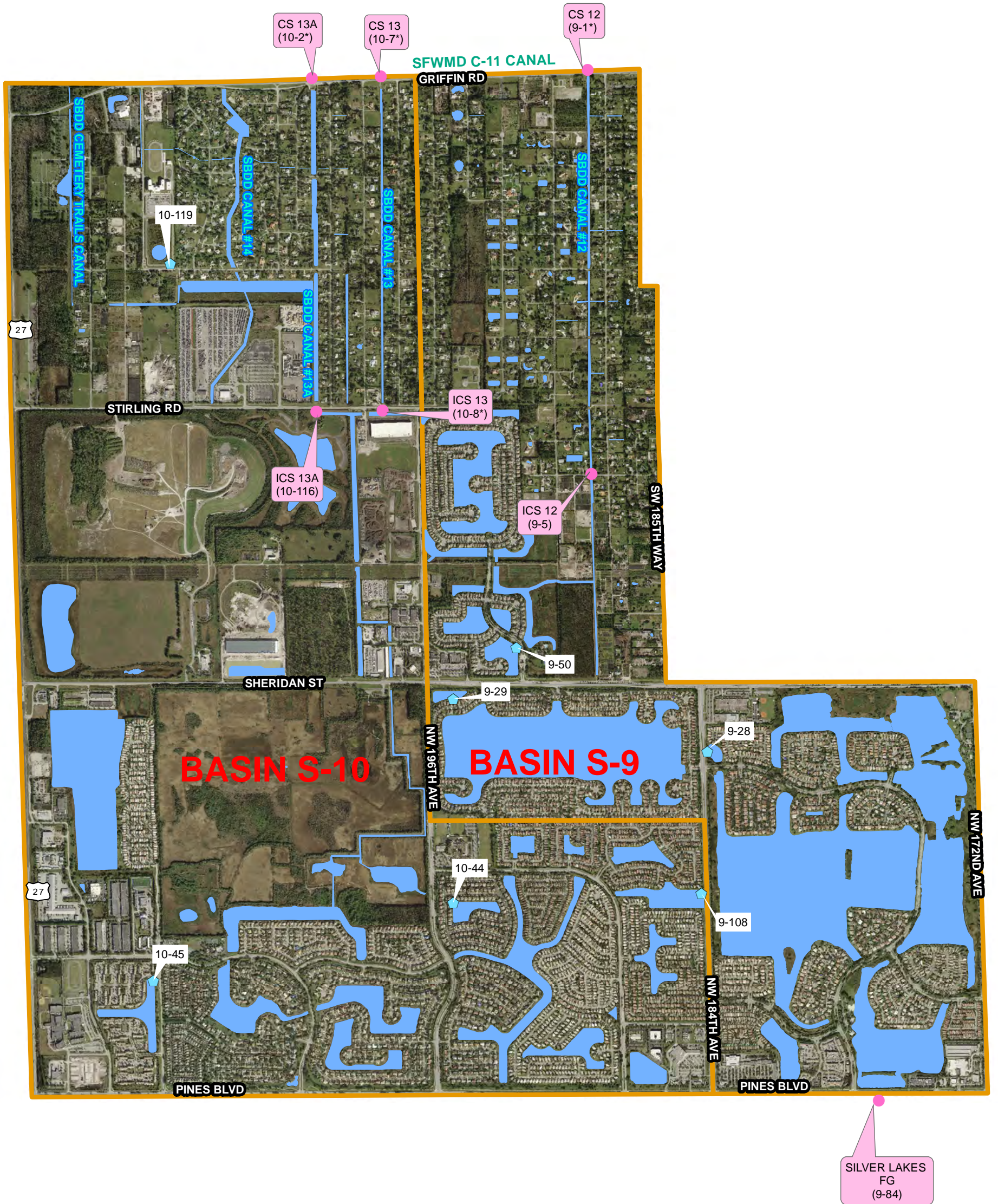


FIGURE II-H-4

TABLE II-H-5

BASIN S-9 & S-10 STAFF GAUGE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
30	Silver Lakes Park	NW 178th Ave. & NW 10th St.	
40	Chapel Trails	NW 202nd Ave. & (N) of NW 4th St.	Water Level Recorder
44	Florida Wetland's Bank	1.25 miles (S) of Sheridan St. by Weir	
46	Chapel Trail Outfall	(W) of SW 196th Ave. & Sheridan St.	Water Level Recorder
48	Keystone Lakes	(W) of SW 184th Ave. at Entrance	
50	Trails of El Rancho Acres	Griffin Rd. & SW 205th Ave.	Water Level Recorder
51	Durango Estates	SW 199th Ave. & SW 54th Pl.	
66	Hidden Lake	NW 208th Ave. & (S) of NW 14th St.	
67	Menorah Gardens & Funeral Chapels	21100 Griffin Rd.	
68	SBDD CS-13A Upstream	4701 SW 199th Ave.	Telemetry
69	SBDD CS-13A Downstream	(N) of 4701 SW 199th Ave. in C-11 Canal	Telemetry
74	SBDD CS-13	19640 Griffin Rd.	Telemetry
75	SBDD CS-12	18840 Griffin Rd.	Telemetry
77	SBDD ICS-13A	19950 SW 60th St.	Telemetry
78	SBDD ICS-12	18850 SW 63rd St.	Telemetry
79	SBDD ICS-13	19800 SW 60th St.	Telemetry
81	Hidden Lake (W)	(N) of 1111 NW 209th Ave.	Water Level Recorder



SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-9 & S-10 FISH GUARD MAP

2019 UPDATE

Legend

- Major Control Structures
- ⬠ Fish Guards
- SFWMD Canal
- ⬢ Water Bodies

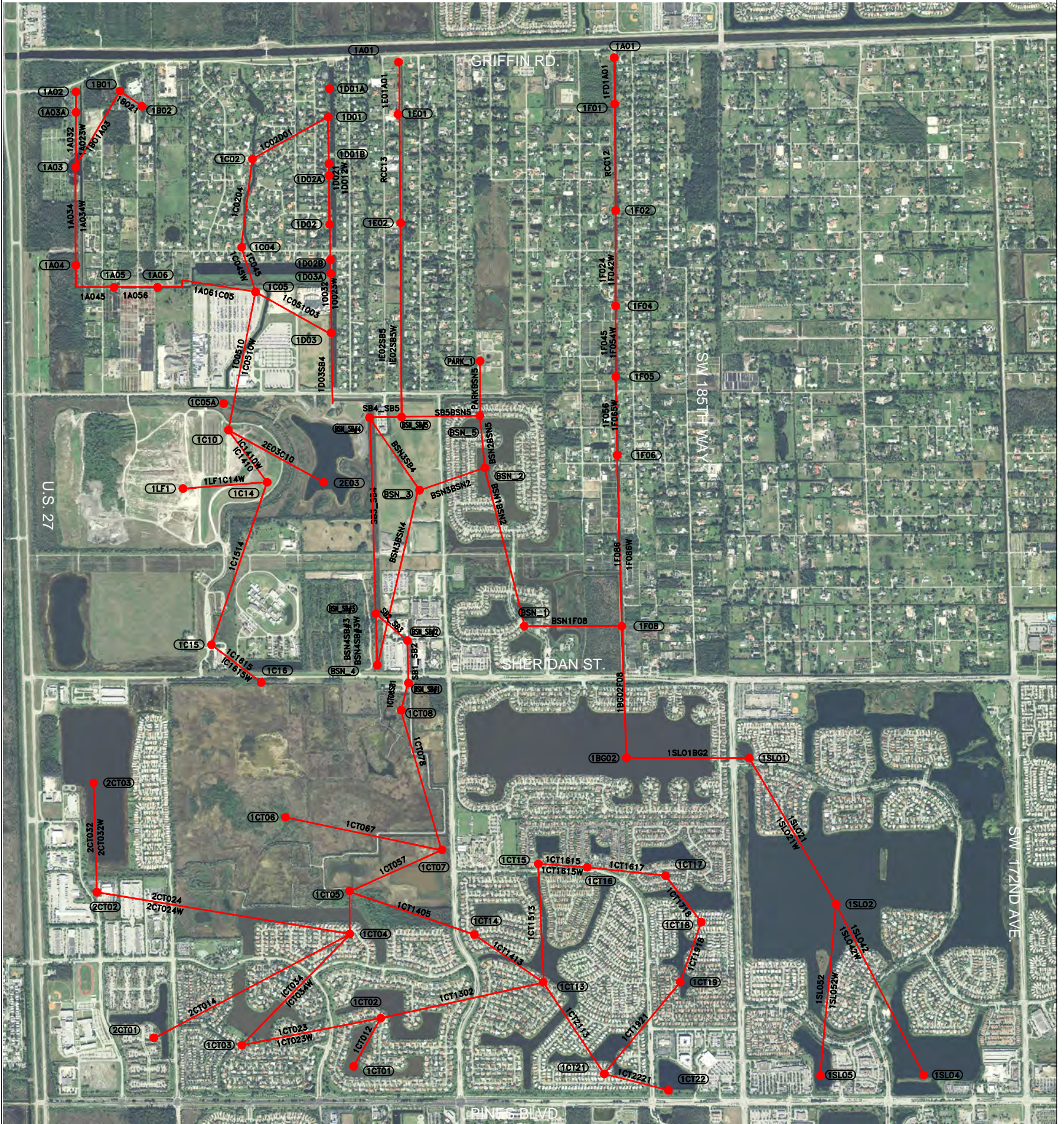


FIGURE II-H-5

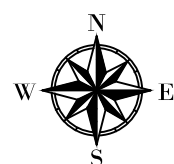
TABLE II-H-6

BASIN S-9 & S-10 FISH GUARD SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>
9-28	Silver Lakes / Keystone Lakes	NW 184th Ave. & (N) of NW 17th St.
9-29	Keystone Lake	19455 NW 24th Pl.
9-50	Laguna Isles	SW 193rd Ave. & (N) of Sheridan St.
9-108	Silver Lakes / Chapel Trail	NW 184th Ave. & (S) of Keystone Lake Entrance
10-44	Chapel Trail Estates	NW 195th Ave & NW 13th St.
10-45	Malibu Bay	NW 208th Ave. & (S) of Johnson St.
10-119	Franklin Academy / Durango	20526 SW 54th Pl.



BASIN 9 & BASIN 10 NODAL DIAGRAM



SCALE = N.T.S.

FIGURE II-H-6

TABLE II-H-7

BASINS S-9 & S-10

BASIN MAXIMUM STAGE REPORT

10-YEAR, 3-DAY STORM

25-YEAR, 3-DAY STORM

100-YEAR, 3-DAY STORM

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
SBDD BASINS S-9 AND S-10 MAX STAGE REPORT
TABLE II-H-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
1A02	BASIN-10	100YR_3DAY	73.80	6.30	8.00	0.0002	462693	60.00	29.71	66.78	3.50
1A02	BASIN-10	10YR_3DAY	72.40	5.53	8.00	0.0002	356998	60.00	17.89	77.69	2.42
1A02	BASIN-10	25YR_3DAY	72.80	5.76	8.00	0.0002	387945	60.00	20.64	69.29	2.47
1A03	BASIN-10	100YR_3DAY	73.79	6.30	8.00	0.0003	12648936	60.00	1016.03	96.21	59.79
1A03	BASIN-10	10YR_3DAY	72.39	5.53	8.00	0.0002	8158947	60.00	524.64	82.43	48.85
1A03	BASIN-10	25YR_3DAY	72.79	5.76	8.00	0.0002	9473568	60.00	640.01	85.86	51.93
1A03A	BASIN-10	100YR_3DAY	73.83	6.30	8.00	0.0003	62054	61.38	21.56	61.83	17.58
1A03A	BASIN-10	10YR_3DAY	72.39	5.53	8.00	0.0002	50607	61.22	19.42	61.31	17.01
1A03A	BASIN-10	25YR_3DAY	72.79	5.76	8.00	0.0002	53959	61.26	20.11	61.36	17.22
1A04	BASIN-10	100YR_3DAY	73.68	6.30	8.00	0.0003	196114	96.21	59.79	95.55	60.20
1A04	BASIN-10	10YR_3DAY	72.21	5.53	8.00	0.0002	78220	82.43	48.85	82.59	49.26
1A04	BASIN-10	25YR_3DAY	72.65	5.75	8.00	0.0003	79057	85.86	51.93	86.01	52.34
1A05	BASIN-10	100YR_3DAY	66.10	6.10	8.00	0.0013	24399	95.55	60.20	95.46	60.32
1A05	BASIN-10	10YR_3DAY	65.13	5.31	8.00	-0.0009	22820	82.59	49.26	82.53	49.37
1A05	BASIN-10	25YR_3DAY	65.29	5.55	8.00	-0.0010	23298	86.01	52.34	85.94	52.46
1A06	BASIN-10	100YR_3DAY	66.08	6.10	8.00	-0.0013	24316	95.46	60.32	95.37	60.43
1A06	BASIN-10	10YR_3DAY	65.10	5.31	8.00	0.0010	22737	82.53	49.37	82.45	49.49
1A06	BASIN-10	25YR_3DAY	65.27	5.55	8.00	0.0011	23215	85.94	52.46	85.88	52.58
1B01	BASIN-10	100YR_3DAY	62.73	6.59	8.00	0.0006	236466	60.33	72.10	61.38	21.56
1B01	BASIN-10	10YR_3DAY	62.04	5.67	8.00	0.0005	152514	60.33	47.34	61.22	19.42
1B01	BASIN-10	25YR_3DAY	62.29	5.92	8.00	0.0005	169844	60.33	53.69	61.26	20.11
1BG02	BASIN-09	100YR_3DAY	72.39	5.80	8.00	0.0003	8347194	60.00	1253.48	104.38	82.05
1BG02	BASIN-09	10YR_3DAY	72.11	5.12	8.00	0.0002	7389491	60.00	825.59	95.10	64.16
1BG02	BASIN-09	25YR_3DAY	72.16	5.30	8.00	0.0002	7569972	60.00	934.33	97.49	68.89
1C02	BASIN-10	100YR_3DAY	64.61	6.13	8.00	0.0003	2436353	60.50	212.45	64.59	43.20
1C02	BASIN-10	10YR_3DAY	63.56	5.32	8.00	0.0003	1264847	60.50	113.55	63.44	36.72
1C02	BASIN-10	25YR_3DAY	64.13	5.57	8.00	0.0003	1521939	60.50	138.10	63.76	37.50
1C04	BASIN-10	100YR_3DAY	64.61	6.13	8.00	0.0004	1007407	60.42	116.13	0.00	0.00
1C04	BASIN-10	10YR_3DAY	63.60	5.32	8.00	0.0003	513412	60.33	50.61	0.00	0.00
1C04	BASIN-10	25YR_3DAY	64.15	5.57	8.00	0.0003	624018	60.42	69.31	0.00	0.00
1C05	BASIN-10	100YR_3DAY	65.52	6.09	8.00	0.0004	1624202	60.00	472.19	60.11	127.59
1C05	BASIN-10	10YR_3DAY	64.64	5.29	8.00	0.0003	1476593	60.00	312.65	81.00	92.97
1C05	BASIN-10	25YR_3DAY	64.77	5.54	8.00	0.0003	1574295	60.00	362.30	83.82	101.59
1C05A	BASIN-10	100YR_3DAY	65.55	6.09	8.00	0.0004	50837	106.21	47.89	105.69	48.05
1C05A	BASIN-10	10YR_3DAY	64.66	5.29	8.00	0.0003	44474	96.67	37.77	96.37	37.90
1C05A	BASIN-10	25YR_3DAY	64.80	5.54	8.00	0.0003	46423	98.81	42.51	98.42	42.66
1C10	BASIN-10	100YR_3DAY	78.89	6.50	8.00	0.0230	620775	60.00	115.94	106.21	47.89
1C10	BASIN-10	10YR_3DAY	75.57	5.56	8.00	0.0002	620775	60.00	59.09	96.67	37.77
1C10	BASIN-10	25YR_3DAY	76.65	5.90	8.00	0.0237	620775	59.92	87.49	98.81	42.51
1C14	BASIN-10	100YR_3DAY	73.27	6.61	8.00	0.0132	544527	18.69	185.28	75.82	6.73
1C14	BASIN-10	10YR_3DAY	73.71	5.61	8.00	0.0002	544527	60.00	60.24	59.84	19.58
1C14	BASIN-10	25YR_3DAY	73.08	5.98	8.00	0.0132	544527	21.44	184.69	59.83	11.99

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
SBDD BASINS S-9 AND S-10 MAX STAGE REPORT
TABLE II-H-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
1C15	BASIN-10	100YR_3DAY	73.28	6.61	8.00	0.0261	814121	60.00	95.35	18.69	184.46
1C15	BASIN-10	10YR_3DAY	73.69	5.61	8.00	0.0002	592039	60.00	60.29	8.54	7.15
1C15	BASIN-10	25YR_3DAY	73.08	5.98	8.00	0.0230	674162	60.00	67.95	21.44	184.07
1C16	BASIN-10	100YR_3DAY	68.69	6.75	8.00	0.0065	531359	60.00	120.67	61.50	9.09
1C16	BASIN-10	10YR_3DAY	64.21	5.68	8.00	0.0004	354404	60.00	79.08	61.79	7.94
1C16	BASIN-10	25YR_3DAY	64.47	6.08	8.00	0.0067	400100	60.00	89.73	61.80	8.04
1CT01	BASIN-10	100YR_3DAY	72.80	6.72	8.00	0.0003	1755218	60.00	168.50	114.34	5.71
1CT01	BASIN-10	10YR_3DAY	72.15	5.93	8.00	0.0002	1168469	60.00	104.17	71.44	5.29
1CT01	BASIN-10	25YR_3DAY	72.33	6.16	8.00	0.0002	1338515	60.00	120.41	72.60	5.41
1CT02	BASIN-10	100YR_3DAY	72.53	6.64	8.00	0.0003	1673670	60.00	190.17	67.89	22.60
1CT02	BASIN-10	10YR_3DAY	72.19	5.85	8.00	0.0002	1163762	60.00	119.42	67.01	21.33
1CT02	BASIN-10	25YR_3DAY	72.27	6.07	8.00	0.0003	1308004	60.00	137.18	67.23	22.03
1CT03	BASIN-10	100YR_3DAY	72.67	6.59	8.00	0.0003	3488146	60.50	414.20	62.07	70.97
1CT03	BASIN-10	10YR_3DAY	72.41	5.81	8.00	0.0002	2093402	60.50	238.79	62.65	58.63
1CT03	BASIN-10	25YR_3DAY	72.48	6.03	8.00	0.0003	2477892	60.50	282.38	62.43	63.32
1CT04	BASIN-10	100YR_3DAY	74.28	6.48	8.00	0.0003	2951337	60.00	517.96	60.85	166.91
1CT04	BASIN-10	10YR_3DAY	73.42	5.73	8.00	0.0002	2349399	60.00	336.27	60.95	114.84
1CT04	BASIN-10	25YR_3DAY	73.69	5.94	8.00	0.0003	2515577	60.00	382.72	60.95	130.09
1CT05	BASIN-10	100YR_3DAY	74.35	6.48	8.00	0.0003	2696072	60.00	511.09	64.99	123.62
1CT05	BASIN-10	10YR_3DAY	73.49	5.73	8.00	0.0002	2690708	60.00	325.65	64.95	106.56
1CT05	BASIN-10	25YR_3DAY	73.77	5.94	8.00	0.0003	2692189	60.00	374.37	64.75	112.65
1CT06	BASIN-10	100YR_3DAY	120.00	5.52	8.00	0.0002	15096589	60.00	1739.50	34.81	0.01
1CT06	BASIN-10	10YR_3DAY	120.00	5.01	8.00	0.0001	13648618	60.00	1174.12	53.25	0.03
1CT06	BASIN-10	25YR_3DAY	120.00	5.13	8.00	0.0002	14007957	60.00	1318.37	50.35	0.03
1CT07	BASIN-10	100YR_3DAY	74.44	6.45	8.00	0.0003	521247	64.74	117.99	97.37	111.58
1CT07	BASIN-10	10YR_3DAY	73.68	5.70	8.00	0.0002	512127	64.91	105.81	65.47	98.41
1CT07	BASIN-10	25YR_3DAY	73.93	5.91	8.00	0.0002	514647	64.72	111.69	65.20	102.78
1CT08	BASIN-10	100YR_3DAY	74.45	6.43	8.00	0.0003	2700522	60.00	453.60	98.79	122.08
1CT08	BASIN-10	10YR_3DAY	73.79	5.67	8.00	0.0002	2695552	59.89	268.41	87.40	103.59
1CT08	BASIN-10	25YR_3DAY	74.01	5.88	8.00	0.0003	2696924	59.83	307.44	90.63	109.16
1CT13	BASIN-10	100YR_3DAY	72.44	6.94	8.00	0.0003	4930035	60.42	547.18	71.52	9.98
1CT13	BASIN-10	10YR_3DAY	72.01	6.10	8.00	0.0003	3250777	60.42	340.86	69.09	9.30
1CT13	BASIN-10	25YR_3DAY	72.11	6.34	8.00	0.0003	3667592	60.42	392.62	69.93	9.55
1CT14	BASIN-10	100YR_3DAY	72.70	6.80	8.00	0.0003	829296	60.50	115.15	61.20	25.22
1CT14	BASIN-10	10YR_3DAY	72.25	5.99	8.00	0.0003	546803	60.50	73.22	61.15	18.46
1CT14	BASIN-10	25YR_3DAY	72.39	6.22	8.00	0.0003	613087	60.50	83.97	61.12	20.76
1CT15	BASIN-10	100YR_3DAY	72.31	6.95	8.00	0.0004	462096	60.00	81.13	60.39	11.11
1CT15	BASIN-10	10YR_3DAY	72.04	6.12	8.00	0.0003	314924	60.00	52.16	60.34	8.72
1CT15	BASIN-10	25YR_3DAY	72.12	6.35	8.00	0.0004	347192	60.00	59.58	60.36	9.43
1CT16	BASIN-10	100YR_3DAY	72.84	7.04	8.00	0.0005	417019	60.17	71.51	60.82	3.37
1CT16	BASIN-10	10YR_3DAY	72.45	6.21	8.00	0.0004	264710	60.17	44.47	60.74	3.54

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 SBDD BASINS S-9 AND S-10 MAX STAGE REPORT
 TABLE II-H-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
1CT16	BASIN-10	25YR_3DAY	72.57	6.44	8.00	0.0004	296672	60.17	51.31	60.76	3.52
1CT17	BASIN-10	100YR_3DAY	73.66	7.08	8.00	0.0004	964601	60.00	134.96	62.61	8.33
1CT17	BASIN-10	10YR_3DAY	72.65	6.24	8.00	0.0003	667639	60.00	87.93	62.15	7.68
1CT17	BASIN-10	25YR_3DAY	72.82	6.48	8.00	0.0003	729116	60.00	100.01	62.36	7.92
1CT18	BASIN-10	100YR_3DAY	73.55	7.08	8.00	0.0004	958095	60.00	178.24	0.00	0.00
1CT18	BASIN-10	10YR_3DAY	72.67	6.24	8.00	0.0003	752613	60.00	115.72	0.00	0.00
1CT18	BASIN-10	25YR_3DAY	72.87	6.48	8.00	0.0003	801598	60.00	131.22	0.00	0.00
1CT19	BASIN-10	100YR_3DAY	72.54	7.08	8.00	0.0003	1606518	60.50	185.95	63.23	7.13
1CT19	BASIN-10	10YR_3DAY	72.43	6.23	8.00	0.0003	1033798	60.50	115.88	62.76	7.02
1CT19	BASIN-10	25YR_3DAY	72.53	6.48	8.00	0.0003	1152529	60.50	133.59	62.94	7.14
1CT21	BASIN-10	100YR_3DAY	72.34	7.05	8.00	0.0003	1653213	60.50	196.99	65.63	15.33
1CT21	BASIN-10	10YR_3DAY	69.28	6.20	8.00	0.0003	1103933	60.50	126.36	65.36	14.17
1CT21	BASIN-10	25YR_3DAY	72.05	6.44	8.00	0.0003	1219280	60.50	144.40	65.44	14.79
1CT22	BASIN-10	100YR_3DAY	72.38	7.35	8.00	0.0004	1096915	60.33	142.08	61.33	5.14
1CT22	BASIN-10	10YR_3DAY	70.83	6.47	8.00	0.0003	598294	60.33	94.54	71.43	4.66
1CT22	BASIN-10	25YR_3DAY	72.04	6.74	8.00	0.0003	740476	60.33	106.73	72.01	4.86
1D01	BASIN-10	100YR_3DAY	61.42	4.67	8.00	0.0002	451292	60.92	302.77	61.38	291.73
1D01	BASIN-10	10YR_3DAY	61.93	4.34	8.00	0.0001	319171	61.61	209.74	61.90	208.25
1D01	BASIN-10	25YR_3DAY	61.81	4.43	8.00	0.0002	353269	61.44	235.64	61.79	232.57
1D01A	BASIN-10	100YR_3DAY	61.42	4.64	8.00	0.0002	27063	61.38	291.73	61.42	291.70
1D01A	BASIN-10	10YR_3DAY	61.93	4.33	8.00	0.0001	26047	61.90	208.25	61.93	208.24
1D01A	BASIN-10	25YR_3DAY	61.81	4.41	8.00	0.0001	26308	61.79	232.57	61.81	232.56
1D01B	BASIN-10	100YR_3DAY	61.42	4.67	8.00	0.0007	27125	64.68	31.11	59.92	47.62
1D01B	BASIN-10	10YR_3DAY	61.93	4.34	8.00	-0.0005	26110	63.96	23.14	59.75	36.00
1D01B	BASIN-10	25YR_3DAY	61.81	4.43	8.00	-0.0007	26373	64.29	25.68	59.87	45.33
1D02	BASIN-10	100YR_3DAY	62.12	5.39	8.00	0.0003	614073	60.00	108.42	62.28	43.35
1D02	BASIN-10	10YR_3DAY	62.30	4.82	8.00	0.0002	427249	60.00	48.12	62.28	26.95
1D02	BASIN-10	25YR_3DAY	62.22	4.98	8.00	0.0002	478973	60.00	60.41	62.18	32.82
1D02A	BASIN-10	100YR_3DAY	62.11	5.38	8.00	0.0003	29371	62.89	190.00	62.92	190.62
1D02A	BASIN-10	10YR_3DAY	62.30	4.81	8.00	0.0002	27528	62.71	148.18	62.78	148.47
1D02A	BASIN-10	25YR_3DAY	62.22	4.97	8.00	0.0002	28038	62.76	160.61	62.80	161.00
1D02B	BASIN-10	100YR_3DAY	62.12	5.40	8.00	0.0003	29404	0.72	13.48	0.00	0.00
1D02B	BASIN-10	10YR_3DAY	62.31	4.82	8.00	0.0002	27556	59.81	3.83	0.00	0.00
1D02B	BASIN-10	25YR_3DAY	62.22	4.98	8.00	0.0002	28068	0.94	13.20	0.00	0.00
1D03	BASIN-10	100YR_3DAY	62.38	5.85	8.00	0.0004	1002633	60.50	258.87	63.78	351.95
1D03	BASIN-10	10YR_3DAY	62.49	5.14	8.00	0.0003	663596	60.50	175.74	63.12	297.46
1D03	BASIN-10	25YR_3DAY	62.49	5.33	8.00	0.0003	728110	60.50	198.92	63.32	319.45
1D03A	BASIN-10	100YR_3DAY	62.38	5.85	8.00	0.0050	11655	63.78	351.95	68.51	167.58
1D03A	BASIN-10	10YR_3DAY	62.52	5.14	8.00	-0.0056	10800	63.12	297.46	68.21	131.87
1D03A	BASIN-10	25YR_3DAY	62.49	5.33	8.00	0.0050	11032	63.32	319.45	68.20	142.69
1D03B	BASIN-10	100YR_3DAY	62.36	5.85	8.00	0.0003	69352	60.64	112.13	60.69	100.77

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 SBDD BASINS S-9 AND S-10 MAX STAGE REPORT
 TABLE II-H-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft ²	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
1D03B	BASIN-10	10YR_3DAY	62.52	5.14	8.00	0.0002	64357	60.53	92.92	60.50	85.59
1D03B	BASIN-10	25YR_3DAY	62.49	5.33	8.00	0.0003	65719	60.56	96.84	60.60	88.14
1D04	BASIN-10	100YR_3DAY	61.70	5.90	8.00	0.0005	38527	0.00	0.00	1.52	2.30
1D04	BASIN-10	10YR_3DAY	62.19	5.17	8.00	0.0004	37640	0.00	0.00	1.06	2.43
1D04	BASIN-10	25YR_3DAY	61.67	5.35	8.00	0.0004	37879	0.00	0.00	1.74	2.31
1E01	BASIN-10	100YR_3DAY	64.41	4.65	8.00	0.0001	63855	64.33	294.14	64.41	294.11
1E01	BASIN-10	10YR_3DAY	65.17	4.30	8.00	0.0001	59194	65.12	198.37	65.17	198.36
1E01	BASIN-10	25YR_3DAY	64.91	4.38	8.00	0.0001	60347	64.85	224.81	64.91	224.80
1E02	BASIN-10	100YR_3DAY	64.37	5.34	8.00	0.0002	3273038	60.00	452.54	64.33	294.14
1E02	BASIN-10	10YR_3DAY	65.14	4.73	8.00	0.0001	2234611	60.00	250.73	65.12	198.37
1E02	BASIN-10	25YR_3DAY	64.87	4.89	8.00	0.0002	2509813	60.00	298.18	64.85	224.81
1E02A	BASIN-10	100YR_3DAY	64.37	5.44	8.00	0.0002	70339	73.48	152.43	73.31	153.21
1E02A	BASIN-10	10YR_3DAY	65.02	4.83	8.00	0.0002	63571	61.11	126.08	61.19	124.05
1E02A	BASIN-10	25YR_3DAY	64.81	4.99	8.00	0.0002	65374	61.13	133.01	61.21	130.42
1F01	BASIN-09	100YR_3DAY	62.78	4.90	8.00	0.0002	54074	62.70	346.55	62.78	346.48
1F01	BASIN-09	10YR_3DAY	63.48	4.40	8.00	0.0001	51140	63.43	229.27	63.48	229.26
1F01	BASIN-09	25YR_3DAY	63.20	4.52	8.00	0.0001	51859	63.15	262.72	63.20	262.69
1F02	BASIN-09	100YR_3DAY	62.77	5.02	8.00	0.0003	2519534	60.00	508.70	62.70	346.55
1F02	BASIN-09	10YR_3DAY	63.48	4.46	8.00	0.0001	1655484	60.00	260.67	63.43	229.27
1F02	BASIN-09	25YR_3DAY	63.20	4.60	8.00	0.0002	1870272	60.00	318.16	63.15	262.72
1F02A	BASIN-09	100YR_3DAY	62.81	5.04	8.00	0.0003	54559	67.64	163.61	67.50	164.74
1F02A	BASIN-09	10YR_3DAY	63.52	4.48	8.00	0.0001	51413	65.96	124.98	65.93	125.73
1F02A	BASIN-09	25YR_3DAY	63.23	4.62	8.00	0.0002	52197	66.34	136.12	66.26	137.02
1F04	BASIN-09	100YR_3DAY	63.57	5.45	8.00	0.0003	1020829	60.00	184.33	67.66	163.21
1F04	BASIN-09	10YR_3DAY	64.04	4.77	8.00	0.0002	640270	62.50	125.06	65.94	124.72
1F04	BASIN-09	25YR_3DAY	63.86	4.95	8.00	0.0002	739894	62.00	138.35	66.34	135.80
1F04A	BASIN-09	100YR_3DAY	63.58	5.45	8.00	0.0003	19059	73.57	132.94	73.55	133.19
1F04A	BASIN-09	10YR_3DAY	64.05	4.78	8.00	0.0002	17790	70.10	102.89	70.04	103.04
1F04A	BASIN-09	25YR_3DAY	63.86	4.95	8.00	0.0002	18122	70.68	111.41	70.61	111.59
1F04B	BASIN-09	100YR_3DAY	63.56	5.44	8.00	0.0003	19046	67.66	163.21	67.64	163.61
1F04B	BASIN-09	10YR_3DAY	64.04	4.77	8.00	0.0004	17777	65.94	124.72	65.96	124.98
1F04B	BASIN-09	25YR_3DAY	63.85	4.94	8.00	0.0002	18109	66.34	135.80	66.34	136.12
1F05	BASIN-09	100YR_3DAY	64.41	5.64	8.00	0.0003	1379895	60.00	203.66	73.57	132.67
1F05	BASIN-09	10YR_3DAY	64.49	4.93	8.00	0.0002	933803	60.00	125.59	70.14	102.73
1F05	BASIN-09	25YR_3DAY	64.39	5.12	8.00	0.0002	1035079	60.00	144.57	70.73	111.24
1F05A	BASIN-09	100YR_3DAY	64.42	5.64	8.00	0.0003	19431	78.02	113.66	77.95	113.88
1F05A	BASIN-09	10YR_3DAY	64.49	4.94	8.00	-0.0004	18116	73.31	90.77	73.31	90.91
1F05A	BASIN-09	25YR_3DAY	64.39	5.12	8.00	0.0002	18465	73.95	97.40	73.95	97.57
1F05B	BASIN-09	100YR_3DAY	64.40	5.63	8.00	0.0003	19402	73.57	132.67	73.57	132.94
1F05B	BASIN-09	10YR_3DAY	64.48	4.93	8.00	0.0002	18087	70.14	102.73	70.10	102.89
1F05B	BASIN-09	25YR_3DAY	64.38	5.12	8.00	0.0002	18436	70.73	111.24	70.68	111.41

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 SBDD BASINS S-9 AND S-10 MAX STAGE REPORT
 TABLE II-H-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
1F06	BASIN-09	100YR_3DAY	65.14	5.76	8.00	0.0003	1631407	59.82	347.88	78.06	113.43
1F06	BASIN-09	10YR_3DAY	64.74	5.05	8.00	0.0002	1126213	60.00	177.35	73.28	90.63
1F06	BASIN-09	25YR_3DAY	64.79	5.23	8.00	0.0002	1207596	60.00	262.67	73.93	97.23
1F06A	BASIN-09	100YR_3DAY	65.14	5.76	8.00	0.0022	19644	83.49	99.25	83.42	99.42
1F06A	BASIN-09	10YR_3DAY	64.74	5.05	8.00	0.0002	18308	78.65	78.76	78.61	78.88
1F06A	BASIN-09	25YR_3DAY	64.79	5.23	8.00	-0.0018	18660	80.32	84.97	80.27	85.11
1F06B	BASIN-09	100YR_3DAY	65.13	5.76	8.00	0.0003	19658	78.06	113.43	78.02	113.66
1F06B	BASIN-09	10YR_3DAY	64.73	5.04	8.00	0.0004	18322	73.28	90.63	73.31	90.77
1F06B	BASIN-09	25YR_3DAY	64.79	5.23	8.00	0.0002	18674	73.93	97.23	73.95	97.40
1F08	BASIN-09	100YR_3DAY	65.45	5.80	8.00	0.0003	4159850	60.00	574.52	83.64	98.76
1F08	BASIN-09	10YR_3DAY	64.76	5.10	8.00	0.0002	3156581	60.00	363.62	78.83	78.38
1F08	BASIN-09	25YR_3DAY	64.99	5.28	8.00	0.0002	3340409	60.00	416.90	80.46	84.57
1F08A	BASIN-09	100YR_3DAY	65.49	5.80	8.00	0.0003	57370	104.38	82.05	104.08	82.25
1F08A	BASIN-09	10YR_3DAY	64.80	5.10	8.00	0.0002	53506	95.10	64.16	94.89	64.32
1F08A	BASIN-09	25YR_3DAY	65.03	5.28	8.00	0.0002	54518	97.49	68.89	97.20	69.06
1F08B	BASIN-09	100YR_3DAY	65.43	5.80	8.00	0.0003	57281	83.64	98.76	83.49	99.25
1F08B	BASIN-09	10YR_3DAY	64.76	5.10	8.00	0.0002	53412	78.83	78.38	78.65	78.76
1F08B	BASIN-09	25YR_3DAY	64.98	5.28	8.00	0.0002	54426	80.46	84.57	80.32	84.97
1LF1	BASIN-10	100YR_3DAY	73.25	6.61	8.00	0.0003	7848516	60.00	1230.43	0.00	0.00
1LF1	BASIN-10	10YR_3DAY	73.69	5.62	8.00	0.0002	6784004	60.00	800.72	0.00	0.00
1LF1	BASIN-10	25YR_3DAY	73.07	5.98	8.00	0.0002	7175661	60.00	879.52	0.00	0.00
1SL01	BASIN-09	100YR_3DAY	73.12	5.81	8.00	0.0003	186864	60.00	65.23	120.00	58.44
1SL01	BASIN-09	10YR_3DAY	72.25	5.14	8.00	0.0002	143455	60.00	49.51	114.85	46.22
1SL01	BASIN-09	25YR_3DAY	72.37	5.32	8.00	0.0002	150621	60.00	53.50	118.03	49.51
1SL02	BASIN-09	100YR_3DAY	74.34	5.82	8.00	0.0003	20517009	60.00	3530.01	120.00	58.03
1SL02	BASIN-09	10YR_3DAY	72.96	5.16	8.00	0.0002	18554414	60.00	2352.04	115.04	45.94
1SL02	BASIN-09	25YR_3DAY	73.24	5.33	8.00	0.0002	19116561	60.00	2652.28	118.21	49.20
1SL04	BASIN-09	100YR_3DAY	74.36	5.82	8.00	0.0003	2873903	60.00	596.75	61.28	55.06
1SL04	BASIN-09	10YR_3DAY	72.80	5.16	8.00	0.0002	2588061	60.00	392.30	61.08	42.68
1SL04	BASIN-09	25YR_3DAY	73.19	5.33	8.00	0.0003	2637089	60.00	444.34	61.12	46.00
1SL05	BASIN-09	100YR_3DAY	63.10	6.52	8.00	0.0005	1215071	60.25	299.10	62.30	56.89
1SL05	BASIN-09	10YR_3DAY	62.64	5.70	8.00	0.0004	847840	60.25	196.16	62.06	49.20
1SL05	BASIN-09	25YR_3DAY	62.77	5.92	8.00	0.0004	945847	60.25	222.54	62.12	51.78
2CT01	BASIN-10	100YR_3DAY	68.04	7.41	8.00	0.0004	1947364	60.42	373.57	63.95	32.14
2CT01	BASIN-10	10YR_3DAY	65.60	6.38	8.00	0.0003	1478979	60.42	232.55	62.60	27.11
2CT01	BASIN-10	25YR_3DAY	65.82	6.66	8.00	0.0004	1605658	60.42	268.49	63.80	28.57
2CT02	BASIN-10	100YR_3DAY	72.80	6.51	8.00	0.0004	1093395	60.50	133.06	61.10	54.99
2CT02	BASIN-10	10YR_3DAY	72.89	5.74	8.00	0.0003	512157	60.42	77.38	60.82	42.58
2CT02	BASIN-10	25YR_3DAY	72.98	5.95	8.00	0.0003	667900	60.42	88.25	60.87	46.36
2CT03	BASIN-10	100YR_3DAY	73.07	6.52	8.00	0.0003	4899443	60.00	746.72	111.39	17.67
2CT03	BASIN-10	10YR_3DAY	73.35	5.75	8.00	0.0002	4114578	60.00	493.94	109.59	15.91
2CT03	BASIN-10	25YR_3DAY	73.41	5.95	8.00	0.0002	4325146	60.00	558.33	108.08	16.15

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 SBDD BASINS S-9 AND S-10 MAX STAGE REPORT
 TABLE II-H-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
2E03	BASIN-10	100YR_3DAY	79.12	6.50	8.00	0.0002	2621805	60.00	234.82	108.78	9.44
2E03	BASIN-10	10YR_3DAY	75.86	5.56	8.00	0.0002	2158418	60.00	139.97	8.54	8.54
2E03	BASIN-10	25YR_3DAY	76.92	5.90	8.00	0.0002	2326294	60.00	161.84	105.02	8.03
BSN_1	BASIN-09	100YR_3DAY	65.44	5.80	8.00	0.0003	2513473	60.17	568.58	60.27	146.45
BSN_1	BASIN-09	10YR_3DAY	64.76	5.10	8.00	0.0002	2425740	60.17	379.08	60.28	115.70
BSN_1	BASIN-09	25YR_3DAY	64.98	5.28	8.00	0.0002	2448796	60.17	427.63	60.27	124.57
BSN_2	BASIN-09	100YR_3DAY	65.21	5.80	8.00	0.0004	2513940	60.17	545.70	76.19	55.64
BSN_2	BASIN-09	10YR_3DAY	62.75	5.10	8.00	0.0003	2412707	60.17	348.91	75.26	37.99
BSN_2	BASIN-09	25YR_3DAY	64.56	5.28	8.00	0.0003	2439405	60.17	398.98	75.18	41.64
BSN_3	BASIN-10	100YR_3DAY	61.09	6.01	8.00	0.0007	1083938	60.17	793.51	60.33	447.14
BSN_3	BASIN-10	10YR_3DAY	60.80	5.30	8.00	0.0006	788383	60.17	512.43	60.28	351.21
BSN_3	BASIN-10	25YR_3DAY	60.88	5.48	8.00	0.0008	851900	60.17	584.71	60.30	375.43
BSN_4	BASIN-10	100YR_3DAY	61.62	5.97	8.00	0.0004	124088	60.17	13.35	62.16	5.40
BSN_4	BASIN-10	10YR_3DAY	61.18	5.27	8.00	0.0003	113738	60.17	8.90	61.52	4.76
BSN_4	BASIN-10	25YR_3DAY	61.31	5.45	8.00	0.0003	116370	60.17	10.04	61.67	4.73
BSN_5	BASIN-09	100YR_3DAY	64.52	5.80	8.00	0.0004	57667	60.17	12.88	0.00	0.00
BSN_5	BASIN-09	10YR_3DAY	62.72	5.10	8.00	0.0003	51588	60.17	8.29	0.00	0.00
BSN_5	BASIN-09	25YR_3DAY	64.40	5.28	8.00	0.0003	53173	60.17	9.41	0.00	0.00
BSN_SB#1	BASIN-10	100YR_3DAY	72.16	6.11	8.00	0.0005	28512	98.79	122.08	98.74	122.19
BSN_SB#1	BASIN-10	10YR_3DAY	72.13	5.40	8.00	0.0003	27897	87.40	103.59	87.38	103.70
BSN_SB#1	BASIN-10	25YR_3DAY	72.14	5.59	8.00	0.0005	28065	90.63	109.16	90.59	109.27
BSN_SB#2	BASIN-10	100YR_3DAY	68.38	5.94	8.00	0.0005	17260	98.74	122.19	98.68	122.26
BSN_SB#2	BASIN-10	10YR_3DAY	68.42	5.25	8.00	0.0004	17110	87.38	103.70	87.34	103.76
BSN_SB#2	BASIN-10	25YR_3DAY	68.40	5.44	8.00	0.0005	17150	90.59	109.27	90.56	109.33
BSN_SB#3	BASIN-10	100YR_3DAY	61.49	5.96	8.00	0.0005	174105	98.05	122.84	97.41	123.51
BSN_SB#3	BASIN-10	10YR_3DAY	61.06	5.26	8.00	0.0004	164381	86.97	104.31	86.52	104.93
BSN_SB#3	BASIN-10	25YR_3DAY	61.19	5.44	8.00	0.0005	166851	90.09	109.89	89.60	110.52
BSN_SB#3A	BASIN-10	100YR_3DAY	61.52	5.95	8.00	0.0005	35999	98.68	122.26	98.55	122.39
BSN_SB#3A	BASIN-10	10YR_3DAY	61.09	5.25	8.00	0.0004	33911	87.34	103.76	87.26	103.89
BSN_SB#3A	BASIN-10	25YR_3DAY	61.21	5.43	8.00	0.0005	34442	90.56	109.33	90.45	109.46
BSN_SB#4	BASIN-10	100YR_3DAY	61.67	5.90	8.00	0.0005	391360	60.27	336.64	60.70	232.61
BSN_SB#4	BASIN-10	10YR_3DAY	62.17	5.17	8.00	0.0005	370890	59.94	259.62	60.54	192.54
BSN_SB#4	BASIN-10	25YR_3DAY	61.60	5.35	8.00	0.0004	376156	60.26	278.28	60.59	203.14
BSN_SB#4A	BASIN-10	100YR_3DAY	61.15	6.00	8.00	0.0006	33777	97.41	123.51	97.29	123.64
BSN_SB#4A	BASIN-10	10YR_3DAY	60.84	5.29	8.00	0.0006	31776	86.52	104.93	86.41	105.05
BSN_SB#4A	BASIN-10	25YR_3DAY	60.92	5.47	8.00	0.0008	32282	89.60	110.52	89.49	110.65
BSN_SB#5	BASIN-10	100YR_3DAY	64.26	5.79	8.00	0.0004	72592	60.70	232.61	60.80	223.55
BSN_SB#5	BASIN-10	10YR_3DAY	62.64	5.10	8.00	0.0003	70196	60.54	192.54	60.61	185.48
BSN_SB#5	BASIN-10	25YR_3DAY	62.83	5.28	8.00	0.0003	70819	60.59	203.14	60.68	195.53
C-11	BASE	100YR_3DAY	0.00	4.00	5.00	0.0000	225	62.75	894.22	0.00	0.00
C-11	BASE	10YR_3DAY	0.00	4.00	5.00	0.0000	225	63.28	613.68	0.00	0.00

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 SBDD BASINS S-9 AND S-10 MAX STAGE REPORT
 TABLE II-H-7

Name	Group	Simulation	Max Time Stage hrs	Max Stage ft	Warning Stage ft	Max Delta Stage ft	Max Surf Area ft2	Max Time Inflow hrs	Max Inflow cfs	Max Time Outflow hrs	Max Outflow cfs
C-11	BASE	25YR_3DAY	0.00	4.00	5.00	0.0000	225	63.07	693.70	0.00	0.00
PARK_1	BASIN-09	100YR_3DAY	64.62	5.81	8.00	0.0004	956214	60.17	118.46	74.26	9.57
PARK_1	BASIN-09	10YR_3DAY	62.72	5.12	8.00	0.0003	598007	60.17	78.97	62.71	10.05
PARK_1	BASIN-09	25YR_3DAY	63.10	5.30	8.00	0.0003	689086	60.17	89.09	63.13	9.07

TABLE II-H-8

BASINS S-9 & S-10

72-HOUR NODAL STAGE REPORT

10-YEAR, 3-DAY STORM

25-YEAR, 3-DAY STORM

100-YEAR, 3-DAY STORM

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
SBDD BASINS S-9 AND S-10 72 HR NODAL STAGE REPORT FOR 10 YR 3 DAY STORM
TABLE II-H-8

Simulation	Node	Group	Time	Stage	Warning	Surface	Total	Total	Total	Total
			hrs	ft	Stage	Area	Inflow	Outflow	Vol In	Vol Out
					ft	ft ²	cfs	cfs	af	af
10YR_3DAY	1A02	BASIN-10	71.83	5.53	8.00	356798	2.65	2.17	5.3	-3.5
10YR_3DAY	1A03	BASIN-10	71.83	5.53	8.00	8150447	50.78	39.83	211.4	27.6
10YR_3DAY	1A03A	BASIN-10	71.83	5.53	8.00	50586	1.84	1.77	12.6	11.3
10YR_3DAY	1A04	BASIN-10	71.83	5.52	8.00	78216	41.41	41.31	40.3	37.8
10YR_3DAY	1A05	BASIN-10	71.83	5.25	8.00	22690	41.31	41.38	37.8	30.9
10YR_3DAY	1A06	BASIN-10	71.83	5.24	8.00	22605	41.38	41.44	30.9	36.9
10YR_3DAY	1B01	BASIN-10	71.83	5.54	8.00	143026	2.04	1.84	15.7	12.6
10YR_3DAY	1BG02	BASIN-09	71.83	5.12	8.00	7388737	42.36	35.23	242.3	66.7
10YR_3DAY	1C02	BASIN-10	71.83	5.19	8.00	1152479	7.74	11.87	38.2	20.1
10YR_3DAY	1C04	BASIN-10	71.83	5.19	8.00	464547	-1.66	0.00	6.7	0.0
10YR_3DAY	1C05	BASIN-10	71.83	5.19	8.00	1428595	82.18	87.22	179.5	141.9
10YR_3DAY	1C05A	BASIN-10	71.83	5.19	8.00	43658	27.55	27.70	41.1	43.5
10YR_3DAY	1C10	BASIN-10	71.83	5.54	8.00	620775	30.47	27.55	72.1	41.1
10YR_3DAY	1C14	BASIN-10	71.83	5.61	8.00	544527	4.36	2.42	14.5	11.9
10YR_3DAY	1C15	BASIN-10	71.83	5.61	8.00	590182	5.37	3.27	22.2	4.4
10YR_3DAY	1C16	BASIN-10	71.83	5.66	8.00	351509	2.74	2.46	21.0	9.3
10YR_3DAY	1CT01	BASIN-10	71.83	5.93	8.00	1167996	6.17	5.28	37.3	3.6
10YR_3DAY	1CT02	BASIN-10	71.83	5.85	8.00	1163217	20.24	19.18	58.2	22.2
10YR_3DAY	1CT03	BASIN-10	71.83	5.81	8.00	2090037	35.08	32.06	120.3	68.4
10YR_3DAY	1CT04	BASIN-10	71.83	5.73	8.00	2343135	73.92	65.83	219.4	150.8
10YR_3DAY	1CT05	BASIN-10	71.83	5.72	8.00	2690648	107.16	97.78	272.0	185.3
10YR_3DAY	1CT06	BASIN-10	71.83	4.98	8.00	13569274	30.59	-2.33	268.3	-1.8
10YR_3DAY	1CT07	BASIN-10	71.83	5.69	8.00	512020	96.19	94.38	190.2	175.7
10YR_3DAY	1CT08	BASIN-10	71.83	5.66	8.00	2695492	99.62	89.98	223.5	156.0
10YR_3DAY	1CT13	BASIN-10	71.83	6.10	8.00	3250736	9.34	9.21	117.0	18.7
10YR_3DAY	1CT14	BASIN-10	71.83	5.99	8.00	546507	4.17	3.61	29.0	13.0
10YR_3DAY	1CT15	BASIN-10	71.83	6.12	8.00	314901	1.98	1.90	14.4	4.2
10YR_3DAY	1CT16	BASIN-10	71.83	6.20	8.00	264142	-0.64	-1.45	7.6	-0.2
10YR_3DAY	1CT17	BASIN-10	71.83	6.23	8.00	666300	2.39	0.19	27.7	4.6
10YR_3DAY	1CT18	BASIN-10	71.83	6.23	8.00	751659	2.42	0.00	30.2	0.0
10YR_3DAY	1CT19	BASIN-10	71.83	6.23	8.00	1032758	0.89	-0.79	35.3	3.2
10YR_3DAY	1CT21	BASIN-10	71.83	6.20	8.00	1102931	11.71	11.73	60.4	24.2
10YR_3DAY	1CT22	BASIN-10	71.83	6.47	8.00	598235	4.52	4.66	36.7	11.0
10YR_3DAY	1D01	BASIN-10	71.83	4.21	8.00	264990	162.15	162.49	401.0	326.3
10YR_3DAY	1D01A	BASIN-10	71.83	4.20	8.00	25633	162.49	162.52	326.3	333.0
10YR_3DAY	1D01B	BASIN-10	71.83	4.21	8.00	25690	21.82	21.86	40.5	107.2
10YR_3DAY	1D02	BASIN-10	71.83	4.61	8.00	361082	4.16	5.18	18.4	-0.6
10YR_3DAY	1D02A	BASIN-10	71.83	4.61	8.00	26876	135.02	135.10	266.9	271.0
10YR_3DAY	1D02B	BASIN-10	71.83	4.62	8.00	26905	-0.34	0.00	-20.3	0.0
10YR_3DAY	1D03	BASIN-10	71.83	4.98	8.00	611349	126.95	176.23	251.4	694.3
10YR_3DAY	1D03A	BASIN-10	71.83	4.98	8.00	10611	176.23	129.49	694.3	247.3
10YR_3DAY	1D03B	BASIN-10	71.83	4.99	8.00	63253	37.35	37.07	102.5	85.9
10YR_3DAY	1D04	BASIN-10	71.83	5.02	8.00	37455	0.00	0.14	0.0	-0.7
10YR_3DAY	1E01	BASIN-10	71.83	4.20	8.00	57931	163.19	163.38	314.9	314.6
10YR_3DAY	1E02	BASIN-10	71.83	4.53	8.00	1890733	149.37	163.19	332.3	314.9
10YR_3DAY	1E02A	BASIN-10	71.83	4.67	8.00	61685	117.58	117.94	242.3	241.4
10YR_3DAY	1F01	BASIN-09	71.83	4.15	8.00	49723	142.48	142.63	304.4	304.3
10YR_3DAY	1F02	BASIN-09	71.83	4.18	8.00	1224545	138.10	142.48	308.9	304.4
10YR_3DAY	1F02A	BASIN-09	71.83	4.20	8.00	49851	114.09	114.28	219.1	218.9
10YR_3DAY	1F04	BASIN-09	71.83	4.47	8.00	471368	111.02	113.99	218.8	222.9
10YR_3DAY	1F04A	BASIN-09	71.83	4.48	8.00	17229	102.31	102.41	193.2	188.8
10YR_3DAY	1F04B	BASIN-09	71.83	4.47	8.00	17214	113.99	114.09	222.9	219.1
10YR_3DAY	1F05	BASIN-09	71.83	4.70	8.00	805923	96.64	102.18	206.6	190.1
10YR_3DAY	1F05A	BASIN-09	71.83	4.70	8.00	17678	90.16	90.28	178.9	181.9
10YR_3DAY	1F05B	BASIN-09	71.83	4.70	8.00	17645	102.18	102.31	190.1	193.2

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 SBDD BASINS S-9 AND S-10 72 HR NODAL STAGE REPORT FOR 10 YR 3 DAY STORM
 TABLE II-H-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
10YR_3DAY	1F06	BASIN-09	71.83	4.90	8.00	1064904	83.99	90.06	194.1	182.1
10YR_3DAY	1F06A	BASIN-09	71.83	4.91	8.00	18045	74.85	74.95	152.9	149.4
10YR_3DAY	1F06B	BASIN-09	71.83	4.90	8.00	18055	90.06	90.16	182.1	178.9
10YR_3DAY	1F08	BASIN-09	71.83	5.04	8.00	3095392	62.70	74.64	214.9	154.1
10YR_3DAY	1F08A	BASIN-09	71.83	5.04	8.00	53177	35.23	35.44	66.7	65.4
10YR_3DAY	1F08B	BASIN-09	71.83	5.03	8.00	53062	74.64	74.85	154.1	152.9
10YR_3DAY	1LF1	BASIN-10	71.83	5.61	8.00	6775200	24.06	0.00	218.4	0.0
10YR_3DAY	1SL01	BASIN-09	71.83	5.14	8.00	143368	18.50	18.19	75.3	72.1
10YR_3DAY	1SL02	BASIN-09	71.83	5.15	8.00	18540504	70.16	17.13	535.4	65.3
10YR_3DAY	1SL04	BASIN-09	71.83	5.15	8.00	2586937	11.43	3.90	89.7	25.5
10YR_3DAY	1SL05	BASIN-09	71.83	5.18	8.00	708081	8.34	8.19	65.6	49.1
10YR_3DAY	2CT01	BASIN-10	71.83	6.28	8.00	1432520	13.00	21.80	86.8	39.0
10YR_3DAY	2CT02	BASIN-10	71.83	5.74	8.00	507255	12.07	10.24	51.6	42.2
10YR_3DAY	2CT03	BASIN-10	71.83	5.74	8.00	4106173	17.09	1.81	129.3	-19.2
10YR_3DAY	2E03	BASIN-10	71.83	5.53	8.00	2140039	5.99	-7.51	35.4	-12.2
10YR_3DAY	BSN_1	BASIN-09	71.83	5.04	8.00	2418049	12.44	21.76	102.0	45.5
10YR_3DAY	BSN_2	BASIN-09	71.83	5.03	8.00	2402884	25.32	34.62	88.4	33.2
10YR_3DAY	BSN_3	BASIN-10	71.83	5.05	8.00	701428	111.32	113.64	316.8	313.7
10YR_3DAY	BSN_4	BASIN-10	71.83	5.15	8.00	111932	0.29	0.55	2.4	-0.3
10YR_3DAY	BSN_5	BASIN-09	71.83	5.02	8.00	50878	-0.20	0.00	1.0	0.0
10YR_3DAY	BSN_SB#1	BASIN-10	71.83	5.40	8.00	27896	89.98	89.97	156.0	155.1
10YR_3DAY	BSN_SB#2	BASIN-10	71.83	5.23	8.00	17106	89.97	89.99	155.1	154.7
10YR_3DAY	BSN_SB#3	BASIN-10	71.83	5.15	8.00	162799	90.60	90.97	153.5	149.5
10YR_3DAY	BSN_SB#3A	BASIN-10	71.83	5.16	8.00	33618	89.99	90.06	154.7	153.8
10YR_3DAY	BSN_SB#4	BASIN-10	71.83	5.02	8.00	366864	76.43	77.74	210.4	202.1
10YR_3DAY	BSN_SB#4A	BASIN-10	71.83	5.07	8.00	31136	90.97	91.07	149.5	148.7
10YR_3DAY	BSN_SB#5	BASIN-10	71.83	5.00	8.00	69832	77.74	78.01	202.1	200.6
10YR_3DAY	C-11	BASE	71.83	4.00	5.00	225	468.53	0.00	951.9	0.0
10YR_3DAY	PARK_1	BASIN-09	71.83	5.02	8.00	546159	2.59	4.75	21.2	9.5

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 SBDD BASINS S-9 AND S-10 72 HR NODAL STAGE REPORT FOR 25 YR 3 DAY STORM
 TABLE II-H-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR_3DAY	1A02	BASIN-10	71.83	5.76	8.00	387526	2.95	2.20	6.6	-4.1
25YR_3DAY	1A03	BASIN-10	71.83	5.75	8.00	9455849	57.55	39.35	254.7	25.9
25YR_3DAY	1A03A	BASIN-10	71.83	5.75	8.00	53914	1.98	1.88	14.1	12.4
25YR_3DAY	1A04	BASIN-10	71.83	5.75	8.00	79048	41.13	40.98	40.4	37.4
25YR_3DAY	1A05	BASIN-10	71.83	5.47	8.00	23149	40.98	41.06	37.4	35.7
25YR_3DAY	1A06	BASIN-10	71.83	5.47	8.00	23064	41.06	41.14	35.7	36.1
25YR_3DAY	1B01	BASIN-10	71.83	5.76	8.00	158927	2.30	1.98	18.0	14.1
25YR_3DAY	1BG02	BASIN-09	71.83	5.30	8.00	7568768	44.30	33.70	272.2	66.5
25YR_3DAY	1C02	BASIN-10	71.83	5.42	8.00	1344512	9.09	15.14	46.8	22.3
25YR_3DAY	1C04	BASIN-10	71.83	5.42	8.00	548712	-2.46	0.00	9.4	0.0
25YR_3DAY	1C05	BASIN-10	71.83	5.42	8.00	1534148	87.35	94.20	179.2	135.8
25YR_3DAY	1C05A	BASIN-10	71.83	5.42	8.00	45503	31.29	31.49	30.6	29.2
25YR_3DAY	1C10	BASIN-10	71.83	5.87	8.00	620775	34.47	31.29	-365.6	30.6
25YR_3DAY	1C14	BASIN-10	71.83	5.98	8.00	544527	5.59	3.89	727.5	-7768.1
25YR_3DAY	1C15	BASIN-10	71.83	5.98	8.00	672960	6.45	4.36	22.5	716.2
25YR_3DAY	1C16	BASIN-10	71.83	6.06	8.00	397452	3.09	3.19	24.2	7.2
25YR_3DAY	1CT01	BASIN-10	71.83	6.15	8.00	1337471	7.11	5.40	44.2	4.0
25YR_3DAY	1CT02	BASIN-10	71.83	6.07	8.00	1307285	21.52	20.09	66.8	24.4
25YR_3DAY	1CT03	BASIN-10	71.83	6.03	8.00	2473622	38.34	34.26	140.2	77.0
25YR_3DAY	1CT04	BASIN-10	71.83	5.93	8.00	2507409	80.56	70.46	250.4	170.4
25YR_3DAY	1CT05	BASIN-10	71.83	5.93	8.00	2692112	113.96	103.00	305.0	205.8
25YR_3DAY	1CT06	BASIN-10	71.83	5.09	8.00	13898028	34.34	-4.12	302.6	-2.6
25YR_3DAY	1CT07	BASIN-10	71.83	5.90	8.00	514508	99.72	97.59	210.8	193.7
25YR_3DAY	1CT08	BASIN-10	71.83	5.87	8.00	2696848	103.48	92.20	247.5	180.0
25YR_3DAY	1CT13	BASIN-10	71.83	6.34	8.00	3666854	11.49	9.51	137.5	20.3
25YR_3DAY	1CT14	BASIN-10	71.83	6.22	8.00	612517	4.73	3.75	33.6	14.6
25YR_3DAY	1CT15	BASIN-10	71.83	6.35	8.00	347105	2.25	1.97	16.7	4.6
25YR_3DAY	1CT16	BASIN-10	71.83	6.44	8.00	295881	-0.38	-1.48	9.1	-0.2
25YR_3DAY	1CT17	BASIN-10	71.83	6.47	8.00	727096	2.87	-0.61	32.1	5.1
25YR_3DAY	1CT18	BASIN-10	71.83	6.47	8.00	800289	3.33	0.00	34.5	0.0
25YR_3DAY	1CT19	BASIN-10	71.83	6.47	8.00	1151272	1.97	0.51	41.7	3.5
25YR_3DAY	1CT21	BASIN-10	71.83	6.44	8.00	1219206	12.85	12.59	69.1	26.4
25YR_3DAY	1CT22	BASIN-10	71.83	6.74	8.00	740369	5.08	4.86	41.7	11.9
25YR_3DAY	1D01	BASIN-10	71.83	4.25	8.00	281757	177.50	177.86	356.5	361.0
25YR_3DAY	1D01A	BASIN-10	71.83	4.24	8.00	25761	177.86	177.90	361.0	358.6
25YR_3DAY	1D01B	BASIN-10	71.83	4.25	8.00	25820	24.23	24.27	43.3	39.6
25YR_3DAY	1D02	BASIN-10	71.83	4.73	8.00	398507	4.91	6.20	22.6	23.7
25YR_3DAY	1D02A	BASIN-10	71.83	4.72	8.00	27244	147.01	147.10	291.7	288.8
25YR_3DAY	1D02B	BASIN-10	71.83	4.73	8.00	27277	-0.07	0.00	5.9	0.0
25YR_3DAY	1D03	BASIN-10	71.83	5.17	8.00	671832	137.81	140.69	287.2	207.9
25YR_3DAY	1D03A	BASIN-10	71.83	5.16	8.00	10829	140.69	140.73	207.9	273.9
25YR_3DAY	1D03B	BASIN-10	71.83	5.17	8.00	64533	37.24	37.56	119.4	119.6
25YR_3DAY	1D04	BASIN-10	71.83	5.20	8.00	37685	0.00	0.15	0.0	-1.0
25YR_3DAY	1E01	BASIN-10	71.83	4.25	8.00	58514	181.30	181.55	349.2	348.9
25YR_3DAY	1E02	BASIN-10	71.83	4.63	8.00	2064974	162.99	181.30	371.4	349.2
25YR_3DAY	1E02A	BASIN-10	71.83	4.78	8.00	62941	127.52	127.96	259.4	258.3
25YR_3DAY	1F01	BASIN-09	71.83	4.19	8.00	49942	158.88	159.08	343.5	343.4
25YR_3DAY	1F02	BASIN-09	71.83	4.22	8.00	1291863	152.85	158.88	349.3	343.5
25YR_3DAY	1F02A	BASIN-09	71.83	4.25	8.00	50110	125.44	125.68	238.9	238.5
25YR_3DAY	1F04	BASIN-09	71.83	4.58	8.00	529648	121.07	125.30	246.7	236.2
25YR_3DAY	1F04A	BASIN-09	71.83	4.58	8.00	17424	111.14	111.28	206.5	209.4
25YR_3DAY	1F04B	BASIN-09	71.83	4.57	8.00	17407	125.30	125.44	236.2	238.9
25YR_3DAY	1F05	BASIN-09	71.83	4.84	8.00	884485	103.52	110.99	217.1	209.8
25YR_3DAY	1F05A	BASIN-09	71.83	4.85	8.00	17949	96.17	96.32	190.4	187.1
25YR_3DAY	1F05B	BASIN-09	71.83	4.84	8.00	17915	110.99	111.14	209.8	206.5

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 SBDD BASINS S-9 AND S-10 72 HR NODAL STAGE REPORT FOR 25 YR 3 DAY STORM
 TABLE II-H-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
25YR_3DAY	1F06	BASIN-09	71.83	5.08	8.00	1139448	88.62	96.05	216.2	187.9
25YR_3DAY	1F06A	BASIN-09	71.83	5.08	8.00	18367	78.04	78.16	159.0	162.0
25YR_3DAY	1F06B	BASIN-09	71.83	5.07	8.00	18377	96.05	96.17	187.9	190.4
25YR_3DAY	1F08	BASIN-09	71.83	5.22	8.00	3276811	64.70	77.82	236.1	160.7
25YR_3DAY	1F08A	BASIN-09	71.83	5.22	8.00	54176	33.70	33.91	66.5	65.0
25YR_3DAY	1F08B	BASIN-09	71.83	5.21	8.00	54062	77.82	78.04	160.7	159.0
25YR_3DAY	1LF1	BASIN-10	71.83	5.98	8.00	7170011	22.24	0.00	-7089.9	0.0
25YR_3DAY	1SL01	BASIN-09	71.83	5.31	8.00	150504	16.95	16.56	78.5	74.7
25YR_3DAY	1SL02	BASIN-09	71.83	5.32	8.00	19097388	80.68	15.41	610.3	67.0
25YR_3DAY	1SL04	BASIN-09	71.83	5.32	8.00	2635536	12.96	3.79	102.7	28.3
25YR_3DAY	1SL05	BASIN-09	71.83	5.36	8.00	739309	9.41	11.09	75.1	55.5
25YR_3DAY	2CT01	BASIN-10	71.83	6.58	8.00	1568137	14.82	23.56	101.2	43.2
25YR_3DAY	2CT02	BASIN-10	71.83	5.94	8.00	662235	14.11	11.54	61.6	49.4
25YR_3DAY	2CT03	BASIN-10	71.83	5.95	8.00	4316044	19.37	2.52	148.4	-20.2
25YR_3DAY	2E03	BASIN-10	71.83	5.83	8.00	2292823	6.91	-13.02	41.3	-26.6
25YR_3DAY	BSN_1	BASIN-09	71.83	5.22	8.00	2440801	13.99	23.76	116.1	50.9
25YR_3DAY	BSN_2	BASIN-09	71.83	5.21	8.00	2429214	27.98	37.85	104.1	38.8
25YR_3DAY	BSN_3	BASIN-10	71.83	5.23	8.00	764047	116.21	119.08	349.9	343.9
25YR_3DAY	BSN_4	BASIN-10	71.83	5.33	8.00	114623	0.33	0.62	2.7	-0.5
25YR_3DAY	BSN_5	BASIN-09	71.83	5.20	8.00	52442	-0.22	0.00	1.3	0.0
25YR_3DAY	BSN_SB#1	BASIN-10	71.83	5.59	8.00	28064	92.20	92.18	180.0	150.5
25YR_3DAY	BSN_SB#2	BASIN-10	71.83	5.42	8.00	17146	92.18	92.20	150.5	167.9
25YR_3DAY	BSN_SB#3	BASIN-10	71.83	5.33	8.00	165335	92.91	93.33	164.1	159.8
25YR_3DAY	BSN_SB#3A	BASIN-10	71.83	5.34	8.00	34161	92.20	92.28	167.9	164.6
25YR_3DAY	BSN_SB#4	BASIN-10	71.83	5.20	8.00	371852	81.99	83.50	223.6	213.6
25YR_3DAY	BSN_SB#4A	BASIN-10	71.83	5.25	8.00	31634	93.33	93.44	159.8	158.8
25YR_3DAY	BSN_SB#5	BASIN-10	71.83	5.17	8.00	70439	83.50	83.80	213.6	211.8
25YR_3DAY	C-11	BASE	71.83	4.00	5.00	225	518.52	0.00	1050.9	0.0
25YR_3DAY	PARK_1	BASIN-09	71.83	5.21	8.00	640768	2.91	5.65	24.2	10.0

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 SBDD BASINS S-9 AND S-10 72 HR NODAL STAGE REPORT FOR 100 YR 3 DAY STORM
 TABLE II-H-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
100YR_3DAY	1A02	BASIN-10	71.83	6.29	8.00	461422	3.67	2.19	10.8	-5.2
100YR_3DAY	1A03	BASIN-10	71.83	6.29	8.00	12595262	77.66	37.22	390.8	26.0
100YR_3DAY	1A03A	BASIN-10	71.83	6.29	8.00	61917	2.41	2.21	18.7	16.4
100YR_3DAY	1A04	BASIN-10	71.83	6.29	8.00	192910	39.57	38.97	45.8	41.5
100YR_3DAY	1A05	BASIN-10	71.83	6.04	8.00	24280	38.97	39.06	41.5	37.4
100YR_3DAY	1A06	BASIN-10	71.83	6.04	8.00	24195	39.06	39.16	37.4	39.6
100YR_3DAY	1B01	BASIN-10	71.83	6.30	8.00	197239	3.06	2.41	24.8	18.7
100YR_3DAY	1BG02	BASIN-09	71.83	5.79	8.00	8341809	49.50	27.90	357.4	61.8
100YR_3DAY	1C02	BASIN-10	71.83	5.99	8.00	2211105	13.06	25.37	73.9	26.4
100YR_3DAY	1C04	BASIN-10	71.83	5.99	8.00	913260	-5.08	0.00	19.0	0.0
100YR_3DAY	1C05	BASIN-10	71.83	5.99	8.00	1617820	90.79	99.23	233.4	168.5
100YR_3DAY	1C05A	BASIN-10	71.83	5.99	8.00	50065	31.75	32.01	38.5	36.4
100YR_3DAY	1C10	BASIN-10	71.83	6.45	8.00	620775	35.57	31.75	-310.9	38.5
100YR_3DAY	1C14	BASIN-10	71.83	6.60	8.00	544527	6.71	4.51	664.8	-7753.1
100YR_3DAY	1C15	BASIN-10	71.83	6.60	8.00	812436	8.37	5.09	32.3	649.8
100YR_3DAY	1C16	BASIN-10	71.83	6.74	8.00	530067	4.12	4.08	33.3	9.8
100YR_3DAY	1CT01	BASIN-10	71.83	6.72	8.00	1751807	9.85	5.24	65.1	4.9
100YR_3DAY	1CT02	BASIN-10	71.83	6.64	8.00	1672204	24.35	21.37	91.3	29.5
100YR_3DAY	1CT03	BASIN-10	71.83	6.59	8.00	3480123	46.46	38.45	198.6	97.0
100YR_3DAY	1CT04	BASIN-10	71.83	6.47	8.00	2938015	101.00	84.97	332.8	219.4
100YR_3DAY	1CT05	BASIN-10	71.83	6.46	8.00	2695948	132.88	118.01	389.8	257.4
100YR_3DAY	1CT06	BASIN-10	71.83	5.41	8.00	14842220	45.30	-12.26	402.8	-7.8
100YR_3DAY	1CT07	BASIN-10	71.83	6.43	8.00	521028	106.85	103.94	259.6	236.1
100YR_3DAY	1CT08	BASIN-10	71.83	6.41	8.00	2700403	111.71	96.46	307.4	202.8
100YR_3DAY	1CT13	BASIN-10	71.83	6.94	8.00	4924932	18.42	9.98	199.8	24.4
100YR_3DAY	1CT14	BASIN-10	71.83	6.79	8.00	826924	6.35	3.94	47.2	18.9
100YR_3DAY	1CT15	BASIN-10	71.83	6.95	8.00	461626	3.01	2.11	23.4	5.8
100YR_3DAY	1CT16	BASIN-10	71.83	7.03	8.00	415271	0.36	-1.44	13.8	-0.3
100YR_3DAY	1CT17	BASIN-10	71.83	7.06	8.00	958341	4.40	-1.11	44.9	6.4
100YR_3DAY	1CT18	BASIN-10	71.83	7.07	8.00	954739	5.24	0.00	46.4	0.0
100YR_3DAY	1CT19	BASIN-10	71.83	7.08	8.00	1604445	4.54	1.74	61.2	3.9
100YR_3DAY	1CT21	BASIN-10	71.83	7.05	8.00	1652202	15.58	13.57	94.2	31.6
100YR_3DAY	1CT22	BASIN-10	71.83	7.34	8.00	1095717	6.72	4.87	56.6	14.0
100YR_3DAY	1D01	BASIN-10	71.83	4.36	8.00	327385	213.70	214.30	458.8	463.0
100YR_3DAY	1D01A	BASIN-10	71.83	4.35	8.00	26110	214.30	214.34	463.0	461.2
100YR_3DAY	1D01B	BASIN-10	71.83	4.36	8.00	26174	29.81	29.86	55.6	50.6
100YR_3DAY	1D02	BASIN-10	71.83	5.04	8.00	499284	6.85	9.04	35.8	31.9
100YR_3DAY	1D02A	BASIN-10	71.83	5.03	8.00	28236	175.15	175.28	365.9	363.6
100YR_3DAY	1D02B	BASIN-10	71.83	5.05	8.00	28276	-0.36	0.00	4.4	0.0
100YR_3DAY	1D03	BASIN-10	71.83	5.65	8.00	874512	160.74	221.54	360.1	298.3
100YR_3DAY	1D03A	BASIN-10	71.83	5.64	8.00	11405	221.54	165.75	298.3	338.4
100YR_3DAY	1D03B	BASIN-10	71.83	5.65	8.00	67920	42.95	42.80	142.7	141.6
100YR_3DAY	1D04	BASIN-10	71.83	5.69	8.00	38291	0.00	0.19	0.0	-1.6
100YR_3DAY	1E01	BASIN-10	71.83	4.40	8.00	60664	231.32	231.76	460.4	459.9
100YR_3DAY	1E02	BASIN-10	71.83	4.93	8.00	2581375	197.22	231.32	498.9	460.4
100YR_3DAY	1E02A	BASIN-10	71.83	5.11	8.00	66516	150.82	151.50	317.8	316.3
100YR_3DAY	1F01	BASIN-09	71.83	4.33	8.00	50735	207.73	208.14	463.4	463.1
100YR_3DAY	1F02	BASIN-09	71.83	4.38	8.00	1533100	193.82	207.73	474.2	463.4
100YR_3DAY	1F02A	BASIN-09	71.83	4.41	8.00	51026	156.20	156.67	298.5	298.0
100YR_3DAY	1F04	BASIN-09	71.83	4.92	8.00	724196	146.02	155.95	310.6	298.8
100YR_3DAY	1F04A	BASIN-09	71.83	4.93	8.00	18074	132.39	132.64	248.8	250.5
100YR_3DAY	1F04B	BASIN-09	71.83	4.91	8.00	18053	155.95	156.20	298.8	298.5
100YR_3DAY	1F05	BASIN-09	71.83	5.30	8.00	1133130	117.51	132.15	270.8	251.5
100YR_3DAY	1F05A	BASIN-09	71.83	5.30	8.00	18805	107.53	107.77	226.7	224.0
100YR_3DAY	1F05B	BASIN-09	71.83	5.30	8.00	18770	132.15	132.39	251.5	248.8

SOUTH BROWARD DRAINAGE DISTRICT (SBDD)
 SBDD BASINS S-9 AND S-10 72 HR NODAL STAGE REPORT FOR 100 YR 3 DAY STORM
 TABLE II-H-8

Simulation	Node	Group	Time hrs	Stage ft	Warning Stage ft	Surface Area ft2	Total Inflow cfs	Total Outflow cfs	Total Vol In af	Total Vol Out af
100YR_3DAY	1F06	BASIN-09	71.83	5.59	8.00	1429792	95.23	107.37	264.3	225.2
100YR_3DAY	1F06A	BASIN-09	71.83	5.59	8.00	19329	80.55	80.72	181.3	180.8
100YR_3DAY	1F06B	BASIN-09	71.83	5.59	8.00	19339	107.37	107.53	225.2	226.7
100YR_3DAY	1F08	BASIN-09	71.83	5.74	8.00	4031008	66.00	80.32	300.8	183.5
100YR_3DAY	1F08A	BASIN-09	71.83	5.74	8.00	57023	27.90	28.12	61.8	59.6
100YR_3DAY	1F08B	BASIN-09	71.83	5.73	8.00	56914	80.32	80.55	183.5	181.3
100YR_3DAY	1LF1	BASIN-10	71.83	6.60	8.00	7840317	31.62	0.00	-6997.0	0.0
100YR_3DAY	1SL01	BASIN-09	71.83	5.80	8.00	186261	12.04	11.27	83.0	77.4
100YR_3DAY	1SL02	BASIN-09	71.83	5.80	8.00	20483196	113.66	9.97	829.2	66.9
100YR_3DAY	1SL04	BASIN-09	71.83	5.81	8.00	2866518	17.43	2.72	141.3	36.8
100YR_3DAY	1SL05	BASIN-09	71.83	5.97	8.00	967796	12.50	22.55	102.8	71.5
100YR_3DAY	2CT01	BASIN-10	71.83	7.37	8.00	1928649	20.09	27.80	144.2	54.5
100YR_3DAY	2CT02	BASIN-10	71.83	6.50	8.00	1083598	23.67	19.51	90.9	67.5
100YR_3DAY	2CT03	BASIN-10	71.83	6.51	8.00	4889835	25.99	8.17	204.9	-23.4
100YR_3DAY	2E03	BASIN-10	71.83	6.36	8.00	2554807	9.50	-21.08	59.9	-38.4
100YR_3DAY	BSN_1	BASIN-09	71.83	5.74	8.00	2505438	18.51	30.12	157.4	61.6
100YR_3DAY	BSN_2	BASIN-09	71.83	5.73	8.00	2503424	39.26	49.92	141.0	46.5
100YR_3DAY	BSN_3	BASIN-10	71.83	5.72	8.00	934906	128.21	132.65	440.1	424.5
100YR_3DAY	BSN_4	BASIN-10	71.83	5.82	8.00	121921	0.43	0.83	3.7	-0.9
100YR_3DAY	BSN_5	BASIN-09	71.83	5.70	8.00	56833	-0.27	0.00	1.9	0.0
100YR_3DAY	BSN_SB#1	BASIN-10	71.83	6.11	8.00	28511	96.46	96.43	202.8	181.4
100YR_3DAY	BSN_SB#2	BASIN-10	71.83	5.91	8.00	17255	96.43	96.46	181.4	193.3
100YR_3DAY	BSN_SB#3	BASIN-10	71.83	5.82	8.00	172211	97.40	97.96	189.4	183.0
100YR_3DAY	BSN_SB#3A	BASIN-10	71.83	5.83	8.00	35633	96.46	96.57	193.3	190.2
100YR_3DAY	BSN_SB#4	BASIN-10	71.83	5.69	8.00	385483	89.89	91.83	280.2	266.3
100YR_3DAY	BSN_SB#4A	BASIN-10	71.83	5.73	8.00	32992	97.96	98.11	183.0	181.8
100YR_3DAY	BSN_SB#5	BASIN-10	71.83	5.65	8.00	72116	91.83	92.22	266.3	263.7
100YR_3DAY	C-11	BASE	71.83	4.00	5.00	225	654.24	0.00	1384.2	0.0
100YR_3DAY	PARK_1	BASIN-09	71.83	5.72	8.00	907820	3.86	8.41	32.8	9.5

SOUTH BROWARD DRAINAGE DISTRICT



BASIN S-11



BASIN S-11

DESCRIPTION

The S-11 Basin is located in the far northwest corner of the District and is approximately 1,100 acres in size. This basin is composed primarily of undeveloped wetlands, with an average elevation of 5.0' NGVD. Basin S-11 is bounded on the north by Griffin Road, the east by US 27, the south by Pines Boulevard, and the west by the SFWMD Conservation Area 3A.

The boundaries and existing facilities for Basin S-11 are shown in Figure II-I-1.

Due to its environmental sensitivity, most of this basin has been acquired by the SFWMD and will not be subject to further development. The only development within the basin is a mobile home park, Holly Lake, which is located in the south end of the basin.

With the exception of Holly Lake, the remainder of Basin S-11 drains via overland flow to the South Broward Drainage District Canal No. 15, which conveys the stormwater runoff to the SFWMD C-11 Canal.

Basin S-11 will be impacted by the proposed BCWPA project (see Significant Future Projects section). This is a joint project by SFWMD and the COE that meets the planning goals set forth in the CERP and includes the construction of the C-11 and C-9 above-ground impoundment areas; a 4,553-acre seepage management area east of Water Conservation Area 3A; and canal conveyance improvements to the SBDD Canal No. 9. Additional information on this project, including the Executive Summary from the Final Integrated BCWPA PIR and EIS can be found at:

<https://www.saj.usace.army.mil/Missions/Environmental/Ecosystem-Restoration/Broward-County-Water-Preserve-Areas/>

It is SBDD's intention to work with both SFWMD and the COE on the design elements of this project to ensure that there are no adverse impacts to the District.

Since 2005, the following improvements have been completed within the S-11 Basin:

- Miscellaneous culvert cleaning.

Figure II-I-1 depicts the existing facilities in Basins S-11 and Table II-I-1 provides the existing culvert schedule for the basin. Figure II-I-2 shows the existing staff gauges within Basin S-11, with corresponding Schedule Table II-I-2.

SUMMARY & RECOMMENDATIONS

An analysis of Basin S-11 is not presented in this Facilities Report, as most of this basin has been acquired by SFWMD and will remain a permanent wetland/buffer area. Over

the years, there has been no reported drainage or flooding problems within the Holly Lake development.

SFWMD CONSERVATION AREA

SFWMD LEVEE #33

SFWMD C-11 CANAL



BASIN S-11



**SOUTH BROWARD DRAINAGE DISTRICT
BASIN: S-11 EXISTING FACILITIES MAP**

2019 UPDATE

Legend

- SFWMD Canal
- Culverts
- Water Bodies

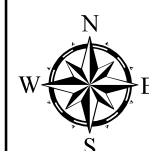


FIGURE II-I-1

TABLE II-I-1

BASIN S-11 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
11-1	U.S. 27 Canal / SBDD Canal 15	U.S. 27 & (N) of Pines Blvd.	48	CMP	CIRC.	69	
11-2	Holly Lake Trailer Park	21720 N. Heritage Cir.	42	RCP	CIRC.	166	
11-3	Holly Lake Trailer Park	(E) of 731 NW 217th Way	42	CMP	CIRC.	70	
11-4	Holly Lake Trailer Park	NW 215th Ave. & Johnson St.	48	CMP	CIRC.	97	
11-5	Holly Lake Trailer Park	U.S. 27 & Johnson St.	48	CMP	CIRC.	100	
11-6	U.S. 27 Canal / SBDD Canal 15	U.S. 27 & FPL Road	60	CMP	CIRC.	43	
11-7.1	U.S. 27 Canal / SBDD Canal 15	6101 U.S. 27	36	CMP	CIRC.	20	
11-7.2	U.S. 27 Canal / SBDD Canal 15	6101 U.S. 27	42	CMP	CIRC.	20	
11-8	U.S. 27 Canal / SBDD Canal 15	U.S. 27 & Stirling Rd.	48	CMP	CIRC.	42	
11-10	U.S. 27 Canal / SBDD Canal 15	U.S. 27 & (S) of Griffin Rd.	72	CMP	CIRC.	34	
11-11	Holiday Park Entry Rd.	U.S. 27 & Griffin Rd.	72	RCP / CMP	CIRC.	99	

SFWMD CONSERVATION AREA






BASIN S-11

Calvin, Giordano & Associates, Inc.
EXCEPTIONAL SOLUTIONS™

**SOUTH BROWARD DRAINAGE DISTRICT
BASIN: S-11 STAFF GAUGE MAP**

2019 UPDATE

Legend

-  Staff Gauge
-  SFWMD Canal
-  Water Bodies



0 1,000 2,000 4,000 Feet



FIGURE II-I-2

TABLE II-I-2

BASIN S-11 STAFF GAUGE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
45	Holly Lake Trailer Park	21720 N. Heritage Cir. (Boat Ramp)	

SOUTH BROWARD DRAINAGE DISTRICT



BASIN S-12



BASIN S-12

DESCRIPTION

The S-12 Basin is located in the south central part of the District, south of Basins S-2 and S-3 and contains 2.5 square miles of mostly residential developments.

Basin S-12 is bordered on the south by the Miami-Dade County/Broward County line, to the east by Red Road to the north by the Florida Turnpike Extension and to the west by SW 148th Avenue. The SFWMD C-9 Canal extends along the west boundary of the basin and splits the basin through Sections 34, 35 & 36.

The overall boundaries of Basin S-12 and its existing facilities are shown in Figure II-J-1, and Table II-J-1 provides a summary of the Basin S-12 basin characteristics.

There have been no District improvements completed within the S-12 Basin since 2013.

The following new developments have been completed:

- * Miramar Readiness Center; Atlantic Commons; Red Road Commons Tropical Letter Carriers; and Catalina.

There are no infrastructure improvements proposed for the S-12 Basin.

Figure II-J-1 depicts the existing facilities in Basin S-12 and Table II-J-2 provides the existing culvert schedule for the basin. Figures II-J-2, II-J-3, and II-J-4 show the existing flood gates, control structures and staff gauges within basin S-12, respectively, with corresponding Schedule Tables II-J-3, II-J-4, and II-J-5.

SUMMARY & RECOMMENDATIONS

SBDD does not have a basin-wide permit for Basin S-12 and this basin is not controlled by any of the District's existing pump stations. All development within the basin is required to meet SFWMD criteria for water quality and discharge. The receiving water body for Basin S-12 is the SFWMD C-9 Canal.

All discharge to the SFWMD C-9 Canal is through individual control structures. This Basin is not included in the District's AdICPR stormwater model.

Basin S-12 currently meets the District's adopted Level of Service. All roads and finished floors are permitted to be constructed above the 10-year, 3-day and 100-year, 3-day elevations, respectively.

All development and redevelopment projects within the S-12 Basin are required to obtain individual permits from SBDD and the SFWMD and must meet minimum requirements for stormwater retention and water quality standards prior to discharging into the C-9 Canal (via a control structure).

TABLE II-J-1

**SUMMARY OF BASIN CHARACTERISTICS
BASIN S-12**

GENERAL

TOTAL BASIN AREA	(AC)	1600
TOTAL PERVIOUS AREA	(AC)	N/A
TOTAL IMPERVIOUS AREA	(AC)	N/A
LAKE AREA	(AC)	N/A
DESIGN CONTROL ELEVATION	(FT NGVD)	3.00
10-YEAR 3-DAY FLOOD ELEVATION (MINIMUM ROAD CROWN)	(FT NGVD)	6.50
100-YEAR 3-DAY FLOOD ELEVATION (MINIMUM FINISHED FLOOR ELEVATION)	(FT NGVD)	7.50

Note:

All undeveloped areas are required to have a minimum of 20% water management area and to comply with all SFWMD and SBDD minimum design criteria.

S.F.W.M.D. PERMIT CONDITIONS

DISCHARGE CONTROL STRUCTURES	GRAVITY
DISCHARGE CAPACITY	*
RECEIVING WATER	SFWMD C-9

* Based on SFWMD Allowable Discharge of 3/4" per acre per day

CANAL

CANAL NAME		SFWMD C-9
LENGTH	(FT)	N/A
MANNING'S "n"		N/A



BASIN S-12

**SOUTH BROWARD DRAINAGE DISTRICT
BASIN: S-12 EXISTING FACILITIES MAP**

- Legend**
- SFWMD Canal
 - Culverts
 - SBDD Pump Station
 - Water Bodies

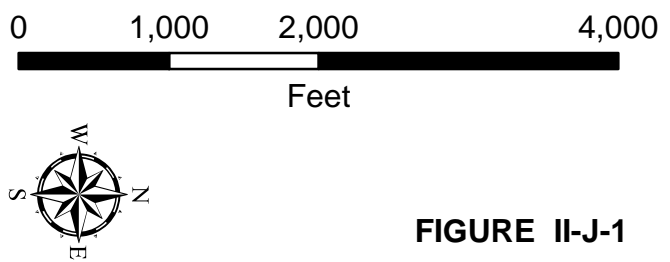


FIGURE II-J-1

TABLE II-J-2

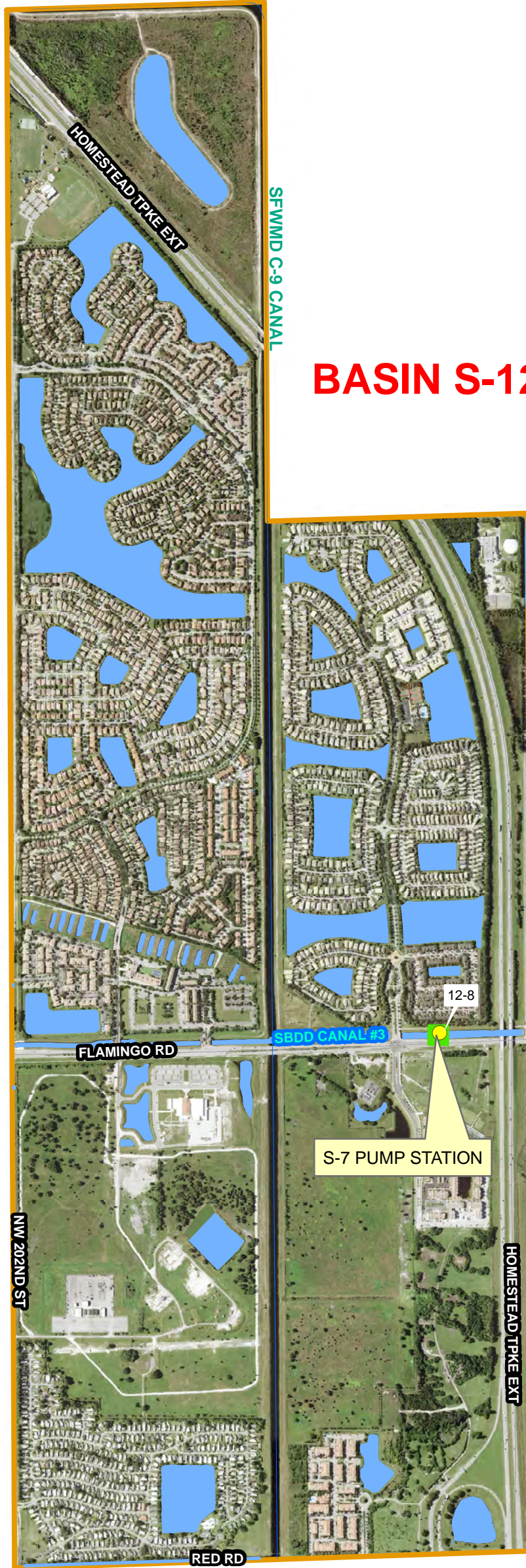
BASIN S-12 EXISTING CULVERT SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
12-1	Silver Falls	Flamingo Rd. & Silver Falls Blvd.	126	CAP	CIRC.	165	
12-2.1	Red Rd. & Honeyhill Rd.	Red Rd. & Honeyhill Rd.	36	RCP	CIRC.	112	
12-2.2	Red Rd. & Honeyhill Rd.	Red Rd. & Honeyhill Rd.	36	RCP	CIRC.	112	
12-2.3	Red Rd. & Honeyhill Rd.	Red Rd. & Honeyhill Rd.	36	RCP	CIRC.	112	
12-3	Flamingo Rd. & Honeyhill Rd. - (E/W) Pipe	Flamingo Rd. & Honeyhill Rd.	60	CMP	CIRC.	300	
12-4	Flamingo Rd. & Honeyhill Rd. - (N/S) Pipe	Flamingo Rd. & Honeyhill Rd.	174	CMP	CIRC.	124	
12-5	Somerset IV Apartments - Outfall	Somerset IV Apartments & Flamingo Rd.	36	RCP	CIRC.	120	Control Structure
12-6	Boardwalk / Somerset IV Apartments	(W) of Flamingo Rd. & Somerset Blvd.	18 - 54	RCP	CIRC.	1824	
12-7	Santorini Isles at Vizcaya	(N) of Honey Hill Rd. & Somerset Pkwy.	48	RCP	CIRC.	882	
12-8.1	S-7 Pump Station	4301 SW 124th Ave.	42	STEEL	CIRC.	5	47.5K GPM, Pump # 1
12-8.2	S-7 Pump Station	4301 SW 124th Ave.	42	STEEL	CIRC.	5	47.5K GPM, Pump # 2
12-8.3	S-7 Pump Station	4301 SW 124th Ave.	42	STEEL	CIRC.	5	47.5K GPM, Pump # 3
12-8.4	S-7 Pump Station	4301 SW 124th Ave.	42 X 64	CONC.	RECT.	2	Flood Gate
12-9	Vizcaya - Bellagio	Somerset Pkwy. & (N) of Somerset Blvd.	36 & 48	RCP	CIRC.	434	
12-10	Vizcaya	SW 131st Ter. & (N) of SW 53rd St.	48	RCP	CIRC.	535	
12-11	Vizcaya	SW 131st Ter. & (S) of SW 53rd St.	48	RCP	CIRC.	785	
12-12	Vizcaya	(W) of SW 130th Ter. & SW 53rd St.	36	RCP / CMP	CIRC.	333	
12-13	Vizcaya	(W) of SW 132nd Ter. & SW 53rd St.	48	RCP	CIRC.	296	
12-14	Vizcaya - Yacht Club	SW 133rd Ave. & (S) of SW 53rd St.	48	RCP	CIRC.	536	
12-15	Vizcaya - Yacht Club	SW 134th Ave. & (S) of SW 50th St.	36 & 48	RCP	CIRC.	561	
12-16	Vizcaya - Outfall	(W) of SW 134th Ave. & C-9 Canal	48	RCP	CIRC.	193	Control Structure
12-17.1	Vizcaya - Somerset Blvd. Entrance	Flamingo Rd. & Somerset Blvd.	96	RCP	CIRC.	88	
12-17.2	Vizcaya - Somerset Blvd. Entrance	Flamingo Rd. & Somerset Blvd.	96	RCP	CIRC.	88	
12-18	Vizcaya - Somerset II South	FPL Pond Connector - 1st (N) of Honeyhill Rd.	36	HDPE	CIRC.	71	
12-19	Vizcaya - Somerset II South	FPL Pond Connector - 2nd (N) of Honeyhill Rd.	36	HDPE	CIRC.	172	
12-20	Vizcaya - Somerset II South	FPL Pond Connector - 3rd (N) of Honeyhill Rd.	36	HDPE	CIRC.	60	
12-21	Vizcaya - Somerset II South	FPL Pond Connector - 4th (N) of Honeyhill Rd.	36	HDPE	CIRC.	60	
12-22	Vizcaya - Somerset II South	FPL Pond Connector - 5th (N) of Honeyhill Rd.	36	HDPE	CIRC.	60	
12-23	Vizcaya - Somerset II South	FPL Pond Connector - 6th (N) of Honeyhill Rd.	36	HDPE	CIRC.	131	
12-25	Vizcaya - Somerset II South	Somerset Blvd. & FPL Lines	48	RCP	CIRC.	344	
12-26	Vizcaya - Bellagio	12761 SW 52nd St.	48	RCP	CIRC.	458	
12-27	Vizcaya - Bellagio	FPL Pond Connector - 2nd (N) of Somerset Blvd.	36	HDPE	CIRC.	60	

TABLE II-J-2

BASIN S-12 EXISTING CULVERT SCHEDULE





<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Size</i>	<i>Material</i>	<i>Shape</i>	<i>Length</i>	<i>General Comments</i>
12-28	Vizcaya - Bellagio	FPL Pond Connector - 3rd (N) of Somerset Blvd.	36	HDPE	CIRC.	60	
12-29	Vizcaya - Bellagio	FPL Pond Connector - 4th (N) of Somerset Blvd.	36	HDPE	CIRC.	70	
12-31	Vizcaya - Bellagio	FPL Pond Connector - 6th (N) of Somerset Blvd.	36	HDPE	CIRC.	90	
12-32	Vizcaya - Bellagio	FPL Pond Connector - 7th (N) of Somerset Blvd.	36	HDPE	CIRC.	103	
12-34	Vizcaya - Bellagio	FPL Pond Connector - 9th (N) of Somerset Blvd.	36	HDPE	CIRC.	60	
12-35	Silver Falls	Silver Falls Blvd. & (W) of SW 125th Ln.	48	RCP	CIRC.	151	
12-36	Silver Falls	4292 SW 126th Ave.	48	RCP	CIRC.	313	
12-37	Silver Falls	Silver Falls Blvd. & (E) of Rec. Center	48	RCP	CIRC.	434	
12-38	Silver Falls	4201 SW 131st Ln.	48	RCP	CIRC.	280	
12-39	Silver Falls	13323 SW 44th St.	48	RCP	CIRC.	315	
12-40	Silver Falls	Silver Falls Blvd. & SW 132nd Ave.	48	RCP	CIRC.	1476	
12-41	Silver Falls	4621 SW 131st Ter.	48	RCP	CIRC.	332	
12-42	Silver Falls - Outfall to SFWMD C-9 Canal	Behind 4691 SW 131st Ter.	48	RCP	CIRC.	130	Control Structure
12-43	Silver Falls	4588 SW 129th Ave.	48	RCP	CIRC.	326	
12-44	Silver Falls	4574 SW 127th Ter.	48	RCP	CIRC.	597	
12-45	Silver Falls	4638 SW 125th Ln.	48	RCP	CIRC.	316	
12-46	Turnpike - Outfall to Blue Gill Rd. Canal	Turnpike (W) of Flamingo Rd.	48	RCP	CIRC.	196	
12-47	Turnpike - Outfall to Blue Gill Rd. Canal	Turnpike (W) of Flamingo Rd.	54	RCP	CIRC.	182	
12-48	Silver Falls	SW 125th Lane & (N) of SW 44th Ct.	48	RCP	CIRC.	293	
12-49.1	Boardwalk Town Center	Flamingo Rd. Canal & SW 50th St.	96	RCP	CIRC.	132	
12-49.2	Boardwalk Town Center	Flamingo Rd. Canal & SW 50th St.	96	RCP	CIRC.	132	
12-50	Vizcaya - Somerset Blvd.	Somerset Blvd. & (W) of Flamingo Rd.	42	RCP	CIRC.	1068	
12-51	Flamingo Rd. Canal & (N) of C-9 Canal	Flamingo Rd. Canal & (N) of C-9 Canal	BRIDGE				
12-52	Red Road Residences / Modera Miramar	(W) of Red Rd. & SW 45th Pl.	48	RCP	CIRC.	848	Control Structure
12-53	Atlantic Commons	Flamingo Rd. & Silver Falls Blvd.	48	RCP	CIRC.	1301	Control Structure
12-54	Atlantic Commons	(E) of Flamingo Rd. & Silver Falls Blvd.	48	RCP	CIRC.	886	
12-55	Atlantic Commons	(N) of Silver Falls Blvd. & SW 119th Ave.	48	RCP	CIRC.	304	
12-56	Red Road Commons	(W) of Red Rd. & SW 43rd Pl.	48	RCP	CIRC.	386	
12-57	Snake Creak Readiness Center	(E) of Flamingo Rd. & SFWMD C-9 Canal	36	RCP	CIRC.	160	Control Structure
12-58	Snake Creak Readiness Center	(E) of Flamingo Rd. & Somerset Blvd.	48	HDPE	CIRC.	87	
12-59	Snake Creak Readiness Center	(E) of Flamingo Rd. & Somerset Blvd.	48	HDPE	CIRC.	80	
12-60	Snake Creak Readiness Center	(E) of Flamingo Rd. & (N) of Somerset Blvd.	LAND WEIR				Control Structure



BASIN S-12

**SOUTH BROWARD DRAINAGE DISTRICT
BASIN: S-12 FLOOD GATE MAP**

Legend

-  Flood Gate
-  SFWMD Canal
-  SBDD Pump Station
-  Water Bodies

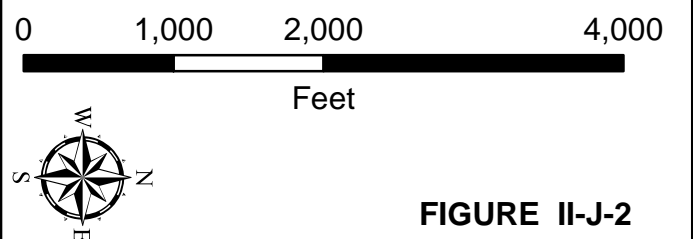
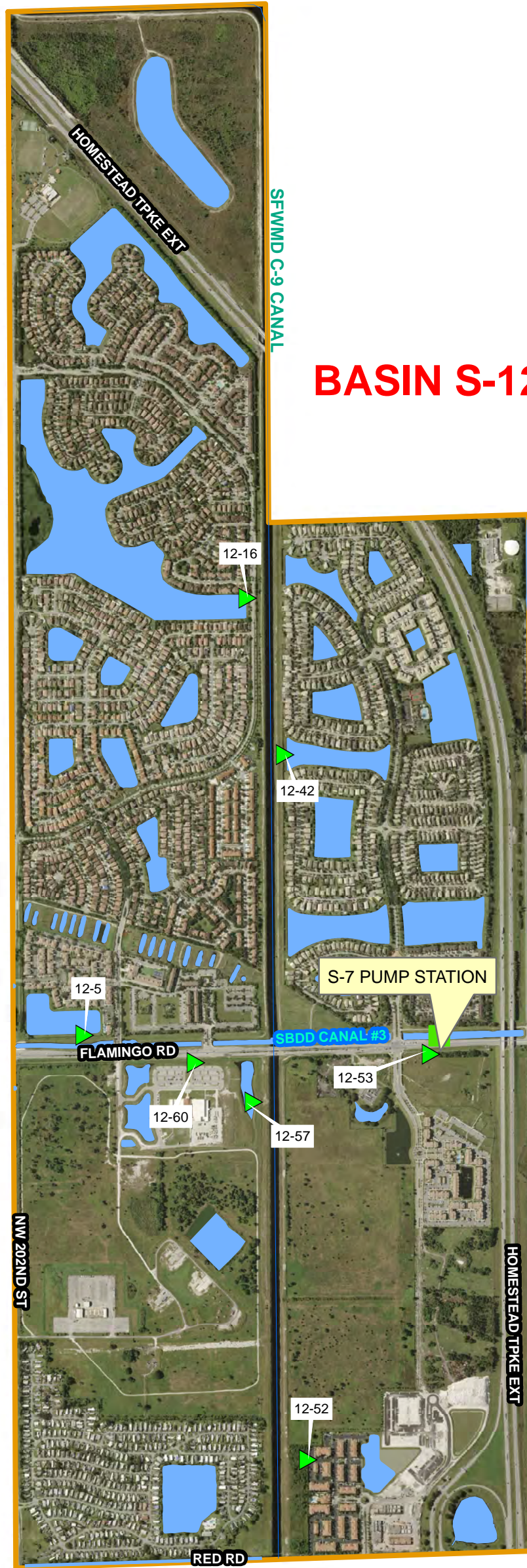


FIGURE II-J-2

TABLE II-J-3

BASIN S-12 FLOOD GATE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
12-8	S-7 Pump Station	4301 SW 124th Ave.	42" W X 64" H



BASIN S-12

SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-12 CONTROL STRUCTURE MAP

Legend

- ▲ Control Structures
- ~ SFWMD Canal
- SBDD Pump Station
- Water Bodies

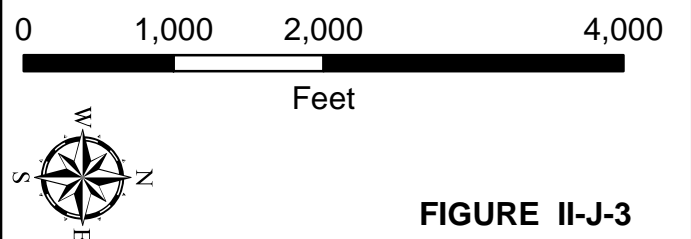
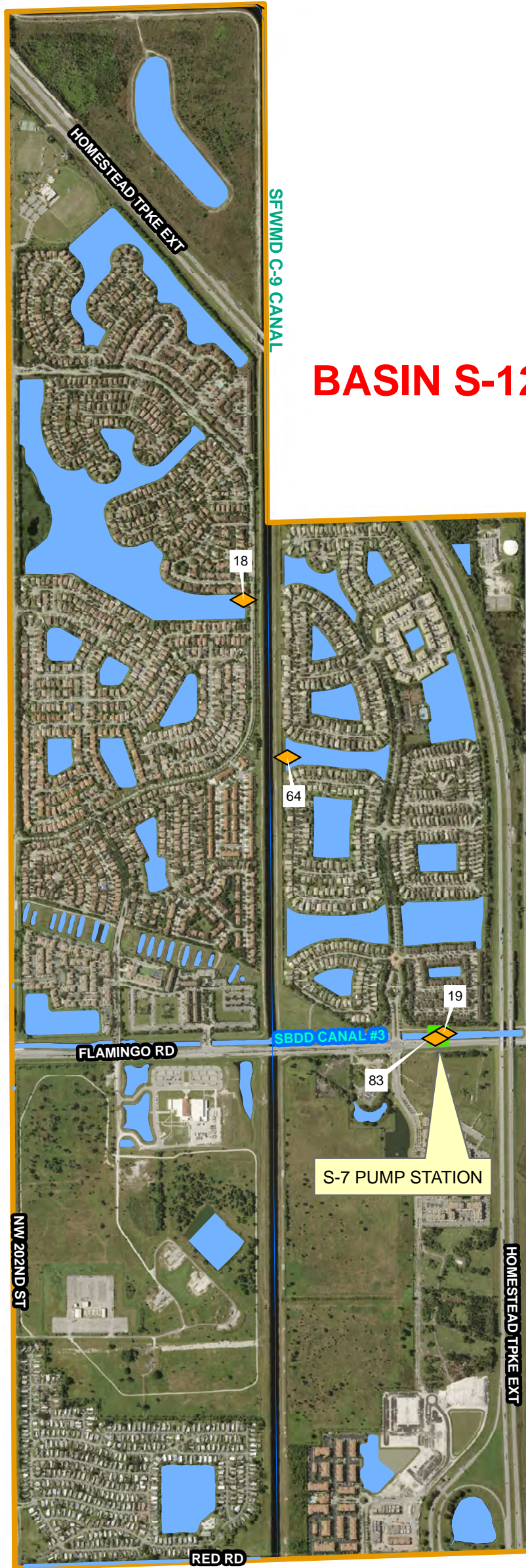


FIGURE II-J-3

TABLE II-J-4

BASIN S-12 CONTROL STRUCTURE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>General Comments</i>
12-5	Somerset IV Apartments	(S) of Somerset Blvd & (W) of Flamingo Rd. Canal	Concrete Weir w/ 8" x 8" Triangle @ 3.00 NGVD
12-16	Vizcaya	Somerset Pkwy. & (W) of SW 134th Ave.	Aluminum Weir w/ 8" W x 42" H Notch @ 3.00 NGVD
12-42	Silver Falls	Behind 12898 SW 47th St. @ C-9 Canal	Aluminum Weir w/ 36" x 6" Triangle @ 3.00 NGVD
12-52	Red Rd. Residences	(W) of Red Rd. & SW 45th Pl.	Concrete Weir w/ 3" Bleeder
12-53	Atlantic Commons	Flamingo Rd. & Silver Falls Blvd.	Concrete Weir w/ 6" Bleeder @ 2.88 NGVD
12-57	Snake Creak Readiness Center	(E) of Flamingo Rd. & SFWMD C-9 Canal	Overflow Structure w/ 10" Bleeder @ 3.00 NGVD
12-60	Snake Creak Readiness Center	(E) of Flamingo Rd. & (N) of Somerset Blvd.	Ground Weir



BASIN S-12

SOUTH BROWARD DRAINAGE DISTRICT BASIN: S-12 STAFF GAUGE MAP

Legend

- Staff Gauge
- SFWMD Canal
- SBDD Pump Station
- Water Bodies

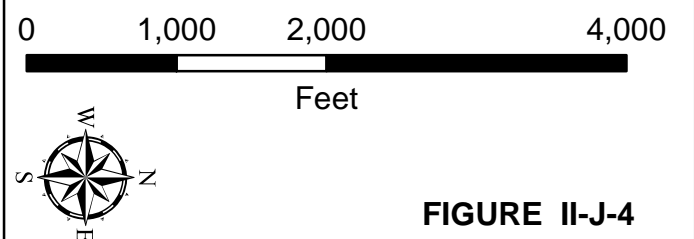


FIGURE II-J-4

TABLE II-J-5

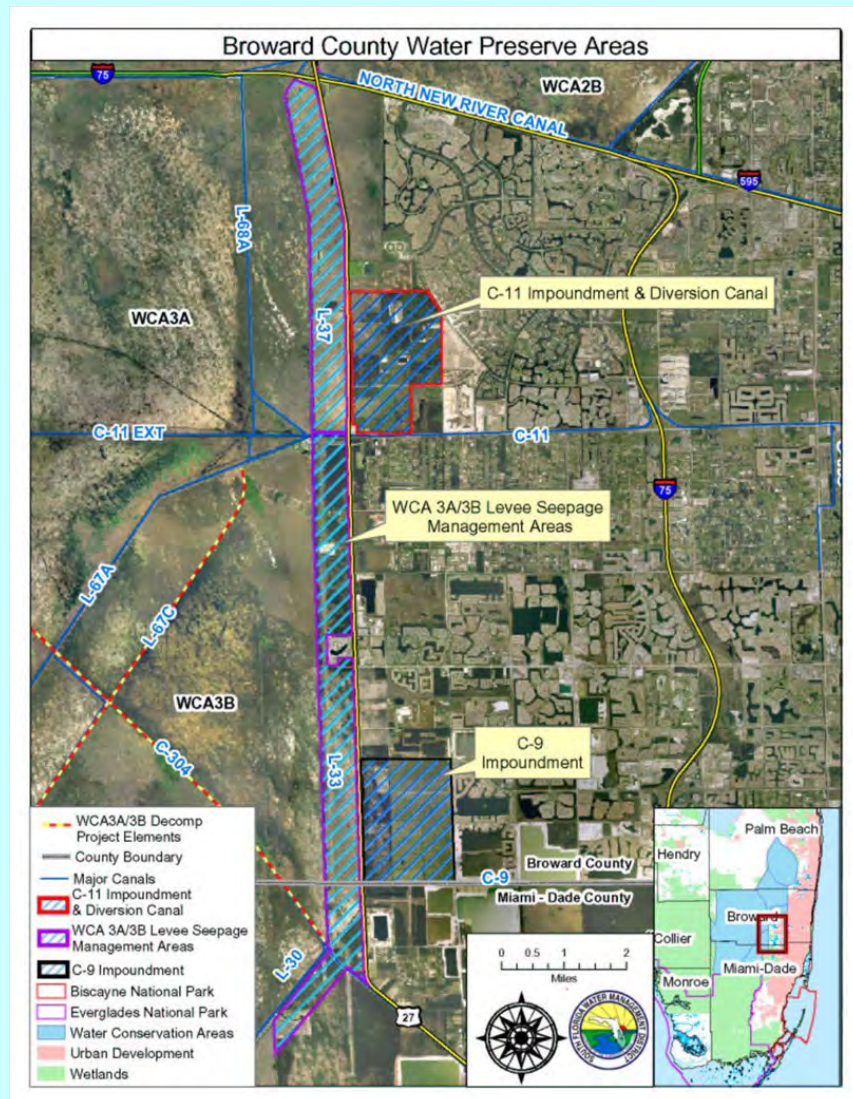
BASIN S-12 STAFF GAUGE SCHEDULE

<i>ID</i>	<i>Subdivision</i>	<i>Location</i>	<i>Description</i>
18	Vizcaya	By Weir at C-9 Canal	
19	S-7 Pump Station Upstream	4301 SW 124th Ave.	Telemetry
64	Silver Falls Outfall	Behind 4691 SW 131st Ter.	
83	S-7 Pump Station Downstream	4301 SW 124th Ave.	Telemetry

SOUTH BROWARD DRAINAGE DISTRICT



FUTURE PROJECTS



SIGNIFICANT FUTURE PROJECTS

BROWARD COUNTY WATER PRESERVE AREAS PROJECT

The Broward County Water Preserve Areas (BCWPA) is a joint project between SFWMD & USACOE aimed at addressing the loss of ecosystem function within the Everglades. It is an \$866 Million Project Located in Southwest Broward County with a total project area of 7,990 Acres. A significant portion of the project is located within the jurisdictional boundaries of SBDD and all components of the project have the potential to impact the District.

The Goals and Objectives of the Project Include:

- Reduce seepage loss from the Conservation Areas
- Reduce nutrient loading and improve water quality in the Everglades
- Improve fish and wildlife habitat in the Everglades, including habitat for threatened and endangered species
- Provide groundwater recharge
- Provide water supply to urban areas
- Help prevent saltwater intrusion

The Project includes the following water management and environmental features:

- C-11 Impoundment Area
 - 1,830 Ac
 - 4.3-foot depth (1,068 Ac)
 - Mitigation 488 Ac
 - Unlined
- C-9 Impoundment Area
 - 1,807 Ac
 - 4.3-foot depth (1,641 Ac)
 - Mitigation 339 Ac
 - Unlined
- Water Conservation Area 3A/3B Seepage Management Area (SMA)
 - Hydraulic Ridge
 - 4,353 Ac
 - 18 inch depth

The following project milestones have been reached as of the end of 2020:

- The project received Congressional authorization in the Water Resources Reform and Development Act (WRRDA) on June 10, 2014.
- The initial construction contract for the Northern Mitigation Area A Berm (MAAB) portion of the C-11 component was completed in November 2018.
- The design of the remaining C-11 component features is on-going.

SBDD will continue to coordinate with both SFWMD and COE on the final design elements and implementation of this major project to ensure that there are no adverse impacts to the water management facilities of SBDD.

Additional information on this project can be found at:

<https://www.saj.usace.army.mil/Missions/Environmental/Ecosystem-Restoration/Broward-County-Water-Preserve-Areas/>

SOUTH BROWARD DRAINAGE DISTRICT



EXHIBITS



EXHIBIT "A"

LEGAL DESCRIPTION OF DRAINAGE BASINS WITHIN **SOUTH BROWARD DRAINAGE DISTRICT**

BASIN S-1 CONSISTS OF:

- a) All of Sections 9, 15, 16, 21 and 28, Township 51 South, Range 41 East. Together with
- b) The South one-half (S ½) of Section 10, Township 51 South, Range 41 East. Together with
- c) The Southwest one-quarter (SW ¼) of Section 11, Township 51 South, Range 41 East. Together with
- d) The Northwest one-quarter (NW ¼) of Section 14, Township 51 South, Range 41 East. Together with
- e) The North one-half (N ½) of Section 22, Township 51 South, Range 41 East.

BASIN S-2 CONSISTS OF:

- a) All of Sections 19, 20, 29 and 30, Township 51 South, Range 41 East. Together with
- b) The South one-half (S ½) of Sections 17 and 18, Township 51 South, Range 41 East. Together with
- c) All of Sections 24 and 25, Township 51 South, Range 40 East. Together with
- d) The South one-half (S ½) of Sections 13, Township 51 South, Range 40 East.

BASIN S-3 CONSISTS OF:

- a) All of Sections 21, 22, 23, 26 and 27, Township 51 South, Range 40 East. Together with
- b) The South one-half (S ½) of Sections 14, 15, 16 and 17, Township 51 South, Range 40 East. Together with
- c) The North one-half (N ½) of Section 34, Township 51 South, Range 40 East. Together with
- d) All of Sections 28 and 33, Township 51 South, Range 40 East lying east of the centerline of Interstate Highway I-75. Together with

- e) The East one-half (E ½) and Northwest one-quarter (NW ¼) of Section 20, Township 51 South, Range 40 East less a portion of the East one-half (E ½) of said Section 20 described as follows:

Beginning at the Southwest corner of the Southeast one-quarter (SE ¼) of said Section 20, thence N 01° 46' 04" W, a distance of 475.47', thence N 89° 39' 07" W, a distance of 663.63', thence S 01° 45' 54" W, a distance of 475.31', thence S 89° 38' 20" W, a distance of 663.61' to the point of beginning.

BASIN S-4 CONSISTS OF:

- a) All of Sections 29 and 32, Township 51 South, Range 40 East. Together with
b) The Southwest one-quarter (SW ¼) of Section 20, Township 51 South, Range 40 East. Together with
c) All of Sections 28 and 33, Township 51 South, Range 40 East, lying west of the centerline of Interstate Highway I-75. Together with
d) A portion of the Southeast one-quarter (SE ¼) of Section 20, Township 51 South, Range 40 East described as follows:

Beginning at the Southwest corner of the Southeast one-quarter (SE ¼) of said Section 20, thence N 01° 46' 04" W, a distance of 475.47', thence N 89° 39' 07" W, a distance of 663.63', thence S 01° 45' 54" W, a distance of 475.31', thence S 89° 38' 20" W, a distance of 663.61' to the point of beginning.

BASIN S-5 CONSISTS OF:

- a) All of Sections 19, 30 and 31, Township 51 South, Range 40 East. Together with
b) The South one-half (S ½) of Section 18, Township 51 South, Range 40 East. Together with
c) All of Sections 23, 24, 25, 26, 35 and 36, Township 51 South, Range 39 East. Together with
d) The South one-half (S ½) of Sections 13 and 14, Township 51 South, Range 39 East. Together with
e) The Southeast one-quarter (SE ¼) of Section 15, Township 51 South, Range 39 East. Together with
f) The East one-half (E ½) of Sections 22, 27 and 34, Township t1 South, Range 39 East.

BASIN S-6 CONSISTS OF:

- a) The Southwest one-quarter (SW $\frac{1}{4}$) of Section 15, Township 51 South, Range 39 East. Together with
- b) The West one-half (W $\frac{1}{2}$) of Sections 22, 27 and 34, Township 51 South, Range 39 East.

BASIN S-7 CONSISTS OF:

- a) All of Sections 7 and 8, Township 51 South, Range 41 East. Together with
- b) The North one-half (N $\frac{1}{2}$) of Sections 17 and 18, Township 51 South, Range 41 East. Together with
- c) All of Section 12, Township 51 South, Range 40 East. Together with the North one-half (N $\frac{1}{2}$) of Section 13, Township 51 South, Range 40 East.

BASIN S-8 CONSISTS OF:

- a) All of Sections 4, 5, 6 and 8, Township 51 South, Range 40 East. Together with
- b) The North one-half (N $\frac{1}{2}$) of Sections 16 and 17, Township 51 South, Range 40 East. Together with
- c) All of Section 9, Township 51 South, Range 40 East, lying west of the centerline of Interstate Highway I-75. Together with
- d) All of the North one-half (N $\frac{1}{2}$) of Section 15, Township 51 South, Range 40 East lying west of the centerline of Interstate Highway I-75. Together with
- e) All of Sections 31, 32 and 33, Township 50 South, Range 40 East. Together with
- f) All of Sections 28, 29 and 30, Township 50 South, Range 40 East lying south of the South Florida Water Management District South New River Canal (Canal C-11). Together with
- g) The East 990 feet of Section 25, Township 50 South, Range 39 East lying south of the South Florida Water Management District South New River Canal (Canal C-11). Together with
- h) The East 990 feet of the Northeast one-quarter (NE $\frac{1}{4}$) of Section 36, Township 50 South, Range 39 East. Together with
- i) The East 660 feet of the Southeast one-quarter (SE $\frac{1}{4}$) of Section 36, Township 50 South, Range 39 East. Together with
- j) The West 330 feet of the East 990 feet of the North 330 feet of the Southeast one-quarter (SE $\frac{1}{4}$) of Section 36, Township 50 South, Range 39 East. Together with
- k) The East 660 feet of Section 1, Township 50 South, Range 39 East.

BASIN S-9 CONSISTS OF:

- a) All of Section 7, Township 51 South, Range 40 East. Together with
- b) The North one-half (N ½)of Section 18, Township 51 South, Range 40 East. Together with
- c) All of Section 1, Township 51 South, Range 39 East, less the east 660 feet thereof. Together with
- d) The North one-half (N ½) of Section 12, Township 51 South, Range 39 East. Together with
- e) All of Section 25, Township 50 South, Range 39 East lying south of the South Florida Water Management District South New River Canal (Canal C-11), less the east 990 feet thereof. Together with
- f) All of Section 36, Township 50 South, Range 39 East less the east 990 feet of the Northeast one-quarter (NE ¼) of said Section 36 and also less the east 660 feet of the Southeast one-quarter (SE ¼) of said Section 36 and also less the west 330 feet of the east 990 feet of the north 330 feet of the Southeast one-quarter (SE ¼) of said Section 36.

BASIN S-10 CONSISTS OF:

- a) All of Sections 2 and 11, Township 51 South, Range 39 East. Together with
- b) The East one-half (E ½)of Sections 3 and 10, Township 51 South, Range 39 East. Together with
- c) The South one-half (S ½) of Section 12, Township 51 South, Range 39 East. Together with
- d) The North one-half (N ½) of Sections 13 and 14, Township 51 South, Range 39 East. Together with
- e) The Northeast one-quarter (NE ¼) of Section 15, Township 51 South, Range 39 East. Together with
- f) All of Section 35, Township 51 South, Range 39 East. Together with
- g) The East one-half (E ½) of Section 34, Township 50 South, Range 39 East. Together with
- h) All of Section 26, Township 51 South, Range 39 East lying south of the South Florida Water Management District South New River Canal (Canal C-11). Together with
- i) All of the East one-half (E ½) of Section 27, Township 50 South, Range 39 East lying south of the South Florida Water Management District South New River Canal (Canal C-11).

BASIN S-11 CONSISTS OF:

- a) The West one-half (W ½) of Section 3 and 10, Township 51 South, Range 39 East. Together with
- b) The Northwest one-quarter (NW ¼)of Section 15, Township 51 South, Range 39 East. Together with
- c) The West one-half (W ½) of Section 34, Township 50 South, Range 39 East. Together with
- d) All of West one-half (W ½) of Section 27, Township 50 South, Range 39 East lying south of the South Florida Water Management District South New River Canal (Canal C-11).

BASIN S-12 CONSISTS OF:

- a) All of Sections 10 and 11, Township 51 South, Range 40 East. Together with
- b) The South one-half (S ½) of Section 34, Township 51 South, Range 40 East.

BASIN S-13 CONSISTS OF:

- a) All of Sections 10 and 11, Township 51 South, Range 40 East. Together with
- b) The North one-half (N ½) of Section 14, Township 51 South, Range 40 East. Together with
- c) All of Section 9, Township 51 South, Range 40 East lying east of the centerline of Interstate Highway I-75. Together with
- d) All of the North one-half (N ½) of Section 15, Township 51 South, Range 40 East lying east of the centerline of Interstate Highway I-75.

Said lands situate, lying and being in Broward County, Florida

SOUTH BROWARD DRAINAGE DISTRICT



FACILITIES REPORT AND WATER CONTROL PLAN

APPENDIX

