



South Indian River
Water Control District

Public Facilities Report

AECOM

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2. 7th Plan of Improvements
3. South Florida Water Management District Permit No. 50-01198-S 1984
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5. South Florida Water Management District Staff Report – 7th Plan of Reclamation
6. Department of Environmental Regulation Permit No. 500896099 – 7th Plan of Reclamation
7. Fourth District Court of Appeal – Ruling on 8th Plan of Reclamation
8. Agreement Between South Florida Water Management District and South Indian River Water Control District, 8th Plan of Reclamation
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10. South Florida Water Management District Conceptual Permit 50-90065-S 1985
11. South Florida Water Management District Staff Report
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13. South Florida Water Management District Permit 50-01330-S 1989
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16. South Florida Water Management District Permit 50-01330-S 1992
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- 32.** Agreement Between South Indian River Water Control District and WJR Venture
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- 34.** 16th Plan of Improvements
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- 36.** 18th Plan of Improvements
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- 39.** South Indian River Water Control District Agreement with Florida Department of Transportation for Maintenance of Turnpike Borrow Canals

Engineer's Certification

I hereby certify, as a Professional Engineer in the State of Florida, that the information in this Public Facilities Report was assembled under by direct responsible charge. The certifying Engineer cannot be responsible for added or deleted information once distributed. This report is not intended or represented to be suitable for any reuse without specific verification or adoption by the Engineer, This Certification is provided in accordance with the Florida Board of Professional Engineers' Rule on Certification under Chapter 21H-29.

Karen D. Brandon, P.E.
FL PE No. 38579

Introduction

Brief Description of District History

The South Indian River Water Control District (formerly referred to as South Indian River Drainage District, until 1975, or “District”) was formed pursuant to Chapter 298, Florida Statutes in July of 1923. The initial works of the District were comprised of primary drainage canals, mainly used for agricultural purposes. Construction of these works was accomplished via the (1st) through the fourth (4th) Plan of Reclamation over a period of several years from 1923 to the latter part of the 1920s. Many of those primary canals are reflected in the Plat of Jupiter Farms and Groves as recorded in Plat Book 9, Page 7 and the subsequent Replat of Jupiter Farms and Groves as recorded in Plat Book 24, Page 7 of the Public Records of Palm Beach County. This most recent Plat also shows the location of many roadways as well as canals. A Fifth Plan of Reclamation was formulated but was never adopted or implemented as an approved Plan of Reclamation.

In the mid-1960s, most of the property within the District was registered with the Florida Land Installment Sales Board for sale as a home site subdivision. Then, in February of 1971, an amended **Sixth Plan of Reclamation** (see **Exhibit 1**) was approved by the District. This plan embodied the concepts of the Fifth Plan but also included a provision for roadside swales. It provided for a water control system that would permit all lands included within the District to be utilized for residential home sites.

In the 1960s and early 1970s, graded access roads to all parcels were installed pursuant to requirements of the land sale registration. Following the completion of these roadways and acceptance by the District Board, several additional roadway improvement programs have been formulated and implemented. In cooperation with Palm Beach County, a plan was developed to pave many of the major collector roads within the District. This plan was completed in 1988 at a total cost of approximately 10 million dollars.

In October 1983, the Board of Supervisors adopted and subsequently implemented the **Seventh Plan of Reclamation** (see **Exhibits 2 through 6**) which provided for surface water management improvements to the District’s drainage basin lying east of the South Florida Water Management District C-18 Canal. The cost for these improvements was approximately 2.7 million dollars. An **Eighth Plan of Reclamation** which addresses improved surface water management facilities for that portion of the District lying west of the South Florida Water Management District C-18 Canal was initially adopted by the Board of Supervisors in November 1985. As a result of litigation, the Board readopted a modified plan in March 1987. This Plan received conceptual permit approval from the South Florida Water Management District as well as permits from the Florida Department of Environmental Regulation and United States Army Corps of Engineers. Further, South Indian River Water Control District entered into an Interlocal Agreement with the South Florida Water Management District. This agreement provides for an additional outfall capacity of 400 cubic feet per second for the District’s west basin via the South Florida Water Management District G-92 diversion structure into the C-18 canal. It also provides for certain facilities to be constructed and paid for by South Florida Water Management District. A portion of the plan was completed by South Florida Water Management District; (1) upgrading of the G-92 structure and (2) installation of the bridge over the C-14 canal. However, due to continued litigation the

remainder of the Eighth Plan of Reclamation was never approved, and therefore never implemented (see **Exhibits 7 through 11**).

The District, at the request of a majority of the affected landowners, prepared and adopted a Plan of Improvements for a portion of Section 9 lying east of I-95. These improvements would be constructed according to the Section 9, T41S, R42E Improvement Plan dated December 1984 (see **Exhibit 12 and 13**), revised in June 1990, and November 1990, and prepared by Lindahl, Browning, Ferrari & Hellstrom, Inc. (see **Exhibits 14 through 16**). The **Section 9 Plan of Improvements** covers approximately 100 acres of property that is zoned for Light Industrial use. Known as the Jupiter Park of Commerce, this area is located east of I-95 off of Central Boulevard. The project was constructed in essentially three (3) separate construction phases. Phase I was completed in the late 1980s. Phase IIA was completed in 1994 and Phase IIB was completed in 1996. Construction of major infrastructure improvements was funded with proceeds from the sale of bonds by the District and was repaid by assessments against the properties receiving benefits. All infrastructure improvements were dedicated to and accepted by the various appropriate entities for ownership and maintenance. The water distribution system/roadways, the wastewater collection system, and the surface water management system is operated and maintained by the Town of Jupiter, Loxahatchee River Environmental Control District, and the South Indian River Water District, respectively.

In 1989, several property owner representatives initially involved more than sixty (60) different property owners banded together and approached the District regarding development of a Plan of Improvements for approximately 250 acres located in Section 15, in the eastern portion of the District. The **Section 15 Plan of Improvements**, known as Egret Landing, serves as a single-family residential community consisting of 666 lots located east of I-95 and entirely within the Town of Jupiter (see **Exhibits 17 through 21**). In 1992, The Town of Jupiter approved the rezoning of the property and through the Chapter 298 Florida Statutes, authorized the use of bonds for funding the project's infrastructure. The infrastructure includes a water distribution system, wastewater collection, roadway, and surface water management facilities. Production of the first phase of this project was completed in early 1995 and served 391 lots. In early 1998, an additional 41 lots were completed by one of the major landowners utilizing their own funds. In mid-1998, the District bid and awarded a construction contract for the balance of the project. In 2000, the project was completed.

Egret Landing was divided into three (3) phases. Phase 1 included minor offsite improvements for the intersection of Central Blvd. and Indian Creek Parkway. Phase IIA, provided an additional 41 lots and was completed in 1998. Phase IIB (the final phase of construction) serving the remaining 234 lots was completed in late 1999 and Section 15 Plan of Improvements was fully implemented and completed. Ownership, operation and maintenance of the various infrastructure facilities will be the continued responsibility of various agencies. The Town of Jupiter certified the roadways and water distribution system; the Loxahatchee River Environmental Control District certified the wastewater collection system; and South Indian River Water Control District certified the primary outfall facilities for the surface water management system serving the project.

In August 2002, the Board of Supervisors adopted a **Ninth Plan of Improvements** for the construction, operation, and maintenance of five (5) water control structures within South Indian River Water Control District in the west basin (see **Exhibits 22 and 23**). The structures were intended to improve groundwater recharge and reduce over drainage during dry periods and improve runoff quality discharged to the Northwest Fork of the Loxahatchee River. All of the lands that benefit from the implementation of the Ninth Plan of Improvements are included in that portion of the District lying west of the South Florida Water Management District C-18 Canal. Additionally, the Plan includes a nonstructural component that establishes a definitive protocol between South Florida Water Management District and South Indian River Water Control District for the operation of the South Florida Water Management District structure G-92 for the purposes of improved flood control for South Indian River Water Control District and the delivery of freshwater flows to the Northwest Fork of the Loxahatchee River. The project was completed on December 22, 2004, and the total cost of construction was \$1,189,630. The lateral control structures weathered two hurricanes in 2004 with no damage and have successfully been operating to benefit the landowners and environment.

In June 2003, the Board of Supervisors adopted the **Tenth Plan of Improvements** for the application of an Open Graded Emulsified Mix on existing dirt roadways in Section 18 (see **Exhibit 24**). This authorization set forth a specific objective to prepare and distribute a ballot to the landowners in Section 18/Township 41S/Range 42E for a roadway improvement project in accordance with Chapter 298, Florida Statutes and its amendments. Construction for paving approximately four (4) miles of roads applied with Open Graded Emulsified Mix began in September 2003 and was completed in October 2003 for a total cost of \$362,035.56.

In February 2004, the Board of Supervisors adopted the **Eleventh Plan of Improvements** for the roadway improvement project consisting of improving the following roads to Palm Beach County Standards and Specifications: 145th Place N. from 69th Drive N. to 64th Way N., 68th Drive N. from 143rd Street N. to 145th Place N, 67th Trail N. from 143rd Street N. to 145th Place N, 66th Trail N. from 143rd Street N. to 145th Place N, 65th Way N. from 143rd Street N. to 145th Place N, and 64th Way N. from 143rd Street N. to 145th Place N. This landowner-initiated project consisted of approximately one point seven (1.7) miles of road within the east basin of South Indian River Water Control District located in Section 22. The Eleventh Plan of Improvements was fully constructed and implemented in April 2005 for a total construction cost of \$367,475.57 (see **Exhibit 25**).

In June of 2004, the Board of Supervisors approved the resolution to authorize the preparation of the **Twelfth Plan of Improvements** for the application of Open Graded Emulsified Mix to 15.6 miles of road within the West Basin and 0.5 miles of road within the East Basin for a total of 16.1 miles within South Indian River Water Control District. Construction for this landowner-initiated project began in January 2005 and was completed in April 2005 for a total of \$2,058,910.48 (see **Exhibit 26**).

In June of 2004, the Board of Supervisors adopted the **Thirteenth Plan of Improvements** (see **Exhibit 27 through 29**). The Thirteenth Plan of Improvements is a capital improvement project for the construction of a potable water distribution system to serve Palm Beach Country Estates located within South Indian River Water Control District's East Basin. This landowner-initiated plan includes approximately forty-five

miles of pipe, a crossing under the Florida Turnpike and Interstate 95, sixteen sub-aqueous and elevated canal crossings, and 445 fire hydrants. In May 2005, a Supplemental Engineer's Report was added to the Thirteenth Plan of Improvements to clarify that a portion of the landowner connection costs associated with this Plan of Improvements will be paid early by South Indian River Water Control District in accordance with the proposed agreement with the Town of Jupiter. In March 2006, a second Supplemental Engineer's Report was added to the Plan of Improvements to update the Engineer's Cost Estimate. The Thirteenth Plan of Improvements was completed in August 2008 over half a million dollars under budget with a final contract price of \$13,030,243 for the construction contract.

Potable water service is supplied by the Town of Jupiter Water Department. Ownership, maintenance and operation of the proposed water distribution facilities, up to and including the meter, became the responsibility of the Town of Jupiter Water Department upon completion, certification, dedication and acceptance of same.

In February 2007, the Board of Supervisors approved the **Fourteenth Plan of Improvements** (see **Exhibit 30**). The landowner-initiated project provided for roadway improvements to approximately 13 miles of roads within South Indian River Water Control District on the west side of the District in the Jupiter Farms area. This improvement includes improving the roads with Open Graded Emulsified Mix. The Fourteenth Plan of Improvements was completed November 2007 for a total of \$2,617,012.

In April 2009, the Board of Supervisors approved the **Fifteenth Plan of Improvements** (see **Exhibit 31**) for the application of Open Graded Emulsified Mix to approximately 2.1 miles of roads within the west basin of South Indian River Water Control District. Construction began in December 2009 and, with the exception of 187th Place N. and 129th Terrace N., was completed in March 2010 for a final price of \$390,079.18.

In December 2010, the Board of Supervisors adopted the **Sixteenth Plan of Improvements** to provide roadway improvements to approximately 5.5 miles of roads within South Indian River Water Control District. The roadway improvements project consisted of the application of Open Graded Emulsified Mix to 1.5 miles of roadways and approximately 4.0 miles of a County Roadway Standard (asphalt) pavement (see **Exhibit 34**). Construction of the Sixteenth Plan of Improvements was completed in March of 2011.

In March 2013, the Board of Supervisors approved the **Seventeenth Plan of Improvements** to provide roadway improvements to approximately 1.9 miles of roads within South Indian River Water Control District (see **Exhibit 35**). The roadway improvements project consisted of the application of Open Graded Emulsified Mix to 0.4 miles of roadways and approximately 1.5 miles of a County Roadway Standard (asphalt) Pavement. Construction for the Seventeenth Plan of Improvements was completed in June of 2014.

In August 2015, the Board of Supervisors approved the **Eighteenth Plan of Improvements** to provide roadway improvements to approximately 3.8 miles of roads within South Indian River Water Control District (see **Exhibit 36**). The roadway improvements project consisted of the application of asphalt to roadways in accordance with Palm Beach County Standards. Construction of the Eighteenth Plan of Improvements was completed in April of 2017.

In May of 2017, the Board of Supervisors approved the **Nineteenth Plan of Improvements** to provide roadway improvements to approximately 2.4 miles of roads within South Indian River Water Control District (see **Exhibit 37**). The roadway improvements project consisted of the application of asphalt to roadways in accordance with Palm Beach County Standards. Construction of the Nineteenth Plan of Improvements was completed in June of 2019.

Physical Description of District

South Indian River Water Control District is located at the northern end of Palm Beach County. The District is comprised of all or parts of 21 Sections of land located in Townships 40 and 41 South, and Ranges 41 and 42 East (see **Figure 1**). The Florida Turnpike and Interstate I-95 segregate the extreme easterly portion of the District, with approximately 95% of the land lying west of the Turnpike. The District is also divided by the South Florida Water Management District's C-18 Canal. This canal provides a physical and hydraulic separation of the District's drainage system and divides it into a west basin and east basin with regard to stormwater discharge or outfall.

Total acreage of the District is approximately 12,607 acres. The west basin is comprised of approximately 9,950 of those total acres, while the east basin is made up of the balance, or approximately 2,657 acres.

A general description by Section, Township, and Range is as follows:

Section 33 and 34, Township 40 South, Range 41 East; the Easterly 1/2 of Sections 4 and 9, Township 41 South, Range 41 East; all Sections 1, 2, 3, 10, 11, 12, 13, 14, 15, and 16, Township 41 South, Range 41 East; all of Sections 7 (less the NE 1/4 of the NE 1/4), 9, 16, 17 (lying SE of South Florida Water Management District Canal 18), and 18 and the Northerly 1/2 of Section 15 lying Westerly of the Florida Turnpike and all of Section 22 lying Westerly of the Florida Turnpike, Township 41 South, Range 42 East; the Northerly 1/2 of Section 15 lying Easterly of I-95 and all of Section 9 lying Easterly of I-95, Township 41 South, Range 42 East; all in Palm Beach County, Florida.

Purpose and Scope of the Public Facilities Report

Purpose

Beginning March 1, 1991, each independent special district shall submit annually to each local general-purpose government (Palm Beach County) in which it is located, a public facilities report, as required by Chapter 189.415, Florida Statutes. The Chapter outlines the information which the special district is to include in its public facilities report as well as a schedule for submission of updated reports. The intent is to foster coordination between special districts and local governments during the development of comprehensive plans.

Scope

This Public Facilities Report consists of four (4) major sections:

1. An introduction that briefly outlines history and boundaries of South Indian River Water Control District
2. A description of existing South Indian River Water Control District facilities
3. The capacity of existing South Indian River Water Control District facilities
4. Projected requirements and proposed improvements

Within each of the last three (3) sections is a discussion of water control facilities, roadways, administrative and operation facilities and water and sewer facilities.

Description of Existing Facilities

Water Control Facilities

Both the West Basin and the East basin have a developed drainage system consisting of open channel primary canals and culverts, secondary swales, culverts, and other appurtenant facilities (see **Figure 2**).

West Basin

The District's West Basin lies at the headwaters of the Northwest Fork of the Loxahatchee River. The River currently serves as the legal positive outfall for discharging stormwater runoff from the basin area. The South Florida Water Management District's G-92 diversion structure is also available to provide additional outfall capability directly to the C-18 canal during critical periods of excess stormwater runoff. This is accomplished via an interlocal agreement between South Florida Water Management District and South Indian River Water Control District (see **Exhibit 8**).

The west drainage system (See Plate 2) consists of 7 lateral canals south of Indiantown Road, spaced one-half mile apart and approximately 4.5 miles long, and drains from west to east. In addition, Section 33 and 34 are served by several canals, three of which discharge via culverts under Indiantown Road to Canal 1. The lateral canals are connected by 2 larger canals (Canals C-12 and C-14) that run north and south at the eastern and western ends of the laterals. Each of the laterals have several culvert crossings which are typically 48-inch to 72-inch diameter Reinforced Concrete Pipe or Corrugated Metal Pipe culverts, 30 feet to 104 feet long.

Discharge to the Northwest Fork of the Loxahatchee River is controlled by five (5) lateral water control structures located in Canals 2, 3, 4, 5, and 14 per the Ninth Plan of Improvements. **Table 1** below describes the location of each structure (see **Figure 2**), weir length, slide gate invert elevation, and the control elevation. Each structure contains a 4-foot high by 6-foot-wide dual slide gate.

Table 1 - Existing West Basin Structures

Location	Weir Length (feet)	Slide Gate Invert Elevation (feet N.G.V.D.)	Control Elevation (feet N.G.V.D.)
Canal 2	35	9.0	13.0
Canal 3	30	10.0	14.0
Canal 4	30	10.0	14.0
Canal 5	30	10.0	14.0
Canal 14	50	9.0	13.0

The structures provide water quality, improve groundwater recharge, and reduce over-drainage during dry periods. The lateral control structures consist of a sheetpile weir with a concrete cap with an operable sluice gate. Stone rubble riprap is installed upstream and downstream of the structures for both erosion control and aeration of discharges over the weir. The operable gates are equipped with radio telemetry for remote sensing of water surface elevations and gate operations. The gates also have electric motor operators and the provision for manual operation, should the electric service be disabled during a storm. When the lateral control structures are open, water levels in these canals are controlled by the existing Lainhart Dam in the Northwest Fork of the Loxahatchee River. Operation of the structures was determined by a letter modification to the existing South Florida Water Management District permit which includes an operational protocol (**Exhibit 23**).

In May 1996, South Indian River Water Control District entered into an agreement with WJR Venture regarding excavation of a lake which would expand Canal 2 at its east discharge point into the Northwest Fork of the Loxahatchee River (**Exhibit 32**). The expansion project involved excavating approximately 25 acres of land along Canal 2 which provides drainage and is an integral part of the District's surface water management system. The District's benefits from the project include providing additional surface water storage, improving hydraulic efficiencies, and enhancing water quality. The project was permitted and completed in 2003 (see **Exhibit 33**).

East Basin

The District's East Basin area (see **Figure 2**) is divided into 3 drainage sub-basins. Basin 1 consists of approximately 2,196 acres and is bordered on the north and west by the C-18 canal and on the east by Florida's Turnpike. Basin 2 consists of approximately 162 acres of Section 9 that lie east of the Florida's Turnpike and Basin 3 consists of approximately 298 acres of Section 15 that lie east of the Florida's Turnpike.

There are 9 east-west canals spaced approximately one-half mile apart that collect runoff from roadway swales and overland flow from adjacent areas. The canals on the west side of the Turnpike are connected by a header canal that runs north and south parallel to and on the west side of the Florida's Turnpike and connects to the west borrow canal. The canals on the east side of the Turnpike connect to the east borrow canal. There are several box culverts under the Turnpike that connect the east and west borrow canals that run parallel to the Turnpike.

Basin 1 (west of Florida's Turnpike) runoff is routed through the east-west canals easterly into the header canal. Four discharge structures allow discharge from the header canal into the west borrow canal. By discharging at four points along the borrow canal, effective use of all of the box culverts under the Turnpike is accomplished. Additional weir length has been provided to allow for future discharge (20 cubic feet per second) of off-site runoff from southeast corner of Section 8 (148 acres) lying south of the C-18 canal. This area is not in the District and has no outfall available other than pumping into the C-18 canal. Therefore, an additional 20 cubic feet per second has been added to the discharge from Basin 1 for this area, and Canal "B", and roadway culverts have been designed to handle this offsite flow.

Basin 2 (Section 9 east of Florida's Turnpike, also known as Jupiter Park of Commerce) runoff is collected in the east-west canal (Canal J) that runs through the basin and is routed westerly into the Turnpike's east borrow canal. Discharge is via 1 1.8-foot-wide weir located within this canal just upstream from I-95 easterly right-of-way, with a crest at elevation 11.5 feet National Geodetic Vertical Datum and 1 10-inch diameter bleeder pipe with an invert at elevation 10.0 feet National Geodetic Vertical Datum.

Basin 3 (Section 15 east of Florida's Turnpike, also known as Egret Landing) runoff is collected in the east-west canal (Canal H) that runs through the center of the basin and is routed westerly into the Turnpike's East Borrow canal. The control structure is located within this canal just upstream from the I-95 easterly right-of-way line and consists of 1 2.6-foot-wide weir with a crest at elevation 11.3 feet National Geodetic Vertical Datum and 1 10-inch diameter bleeder pipe with an invert at elevation 10.0 feet National Geodetic Vertical Datum.

The outfall canal for these basins (see **Figure 2**) is located parallel to and partially within the C-18 canal right-of-way running generally northeasterly from the eastern Turnpike borrow canal, through the I-95 alignment via twin box culverts, to a point just downstream of the S-46 structure. The District outfall control structure is located in this canal. The control structure consists of 1 30.5-foot-wide weir with a crest at elevation 10.5 feet National Geodetic Vertical Datum. Discharge is into the continuation of the outfall canal which flows under SR 706 (Indiantown Road) to the Loxahatchee River immediately downstream of the S-46 structure. The main outfall weir length has been increased in order to be able to handle additional off-site flows from lands in Section 3 and Section 8 lying south of the C-18 canal.

Roadways

The District has approximately 189 miles of roads within its boundaries (see **Figure 3**). These roads give access to each existing sub-divided parcel of land. During 1985 through 1990, the District, in conjunction with Palm Beach County, completed a 10+ million-dollar road improvement program which funded the construction of paved roadways in accordance with Palm Beach County specifications and standards. Subsequent to completing the construction, these roadways were turned over to Palm Beach County for perpetual ownership, operation and maintenance. This network of paved roadways provide a "backbone" of inter-connected collector links that affords "County Standards" access to within approximately 1/2 mile of each subdivided parcel in the District. Additionally, the network of roadways provides for a continuous loop of "County Standards" roadways in the District so as to accommodate fire rescue, emergency vehicles, school buses, and other public services. Partial maintenance of the paved

roads is accomplished by the District via an interlocal agreement with Palm Beach County. Maintenance of graded roads is accomplished by the District.

Additional paved roadways exist within the Trailwood Subdivision located in the western portion of the District which is privately maintained. There are also paved roads within Jupiter Park of Commerce and Egret Landing in the eastern portion of the District which are owned and maintained by the Town of Jupiter. The Palm Beach County School Board completed roadway improvements to approximately 1/4 mile of Haynie Lane, including construction and paving in accordance with Palm Beach County specifications and standards, to serve the elementary school and has been turned over to the District.

The District now contains approximately 96 miles of roads surfaced with Open Graded Emulsified Mix and asphalt, and 92 miles of unpaved roads. The improved roads include roads that are operated and maintained by Palm Beach county, the Town of Jupiter, and private entities or owners which consist of approximately 42 miles of roadway.

Administrative and Operations Facilities

The District presently maintains its office and maintenance headquarters at 15600 Jupiter Farms Road (see **Figure 1**). This facility is located on a 3.15-acre site. The building is a 6,250 square foot building consisting of approximately 2,000 square feet of office area and 4,250 square feet of shop/maintenance area. This facility was constructed in 1983 and underwent needed improvements in 2018. It now meets both the present and foreseeable future needs of the District staff.

The inventory of District equipment includes various types of vehicles and machinery typical to the maintenance and operation of water control and roadway facilities. Presently, this includes the following:

Table 2 - Vehicles

Vehicle Description	Year manufactured
International Dump Truck 6yd steel box, diesel	2005
International Dump Truck 14yd aluminum box, diesel	1996
International Dump Truck 14yd steel box, diesel	2000
Dodge Pickup Truck service bed, diesel	2002
GMC Pickup Truck 3500 flat bed dually, gasoline	2007
Dodge Pickup Truck 3500 truck service body, diesel	2008
Dodge Pickup Truck 5500 flat bed dually, diesel	2013
Ford Pickup Truck F150, gasoline	2018
Ford Escape Sport Utility Vehicle, gasoline	2022
Chevy Pickup Truck Crew Cab 2500 4X4, diesel	2024

Table 3 - Equipment

Equipment Description	Year Acquired
JD Motor Grader	2011
Kubota Utility tractor	2017
Kubota Mini Excavator	2017
Kubota Mini Excavator	2018
JD Utility Tractor 4X4 with Boom mower	2023
JD Utility tractor 4X4	2016
JD Backhoe	2015
JD Utility Tractor 4X4 with Boom mower	2021
Kubota Track Skid Steer	2018
Kubota Lawn Mower	2018
Volvo Wheel Loader	2019
JD Motor Grader	2021
Kubota Mini Excavator	2021
Kubota Mini Excavator	2021
JD Utility Tractor 4X4 with Boom mower	2023
JD Motor Grader	2024
Hustler Lawn Mower	2024
JD Utility Tractor 4X4 with mower deck	2024
JD Utility Tractor 4X4 with mower deck	2024

All equipment is maintained in good operating condition so as to be available for use for its intended purpose.

Water and Sewer

The District has constructed water and sewer facilities in three (3) areas; specifically, Section 9, Section 15, and 13th Plan of Improvements, lying east and west of I-95. This work was done in accordance with the respective Plan of Improvements as adopted by the District’s Board of Supervisors.

The Section 9 Improvements Plan covers the Phase 2 portion of the Jupiter Park of Commerce, a light industrial development (see **Exhibit 12 through Exhibit 16** for details). The facilities include water mains and services, gravity sewer mains and services, a lift station and sewer force main and appurtenant items to serve each parcel.

The Section 15 Improvements Plan provides for facilities to serve a 66 single family residential unit development (see **Exhibit 17** for details). The proposed facilities include water mains and services,

gravity sewer mains and services, two (2) lift stations and associated force mains and appurtenant items to service each residential lot.

The 13th Plan of Improvement provided Palm Beach Country Estates with potable water with the installation of two mains to the Town of Jupiter Utilities System and associated distribution pipe within Palm Beach Country Estates, which is located between the C-18 Canal and the Florida Turnpike right-of-way within Section 9, 15, 16, 17, and 22 of Township 41/ Range 42 (see **Exhibits 27 through 29** for detail). The distribution piping is installed within South Indian River Water Control District easements along the existing roadway and within Palm Beach County right-of-way. Construction consisted of approximately 242,900 linear feet of pipe generally 4 to 16 inches in diameter.

The Section 9 Improvements Plan, the Section 15 Improvements Plan, and 13th Plan of Improvements provide for potable water distribution systems and wastewater collection systems which take into account the appropriate delivery of services that support public health, safety and welfare.

Potable water service is supplied by the Town of Jupiter Water Department. Ownership, maintenance and operation of the proposed water distribution facilities, up to and including the meter, are the responsibility of the Town of Jupiter Water Department since the completion, certification, dedication and acceptance of same. Wastewater collection and treatment for the projects are provided by the Loxahatchee River Environmental Control District. Ownership, maintenance and operation of the proposed sewer facilities are the responsibility of Loxahatchee River Environmental Control District.

Capacity of Existing Facilities and Projected Requirements

Water Control Facilities

West Basin

The District’s West Basin facilities are comprised of primary canals and culverts that operate as a gravity flow system. **Table 4** is a tabular summary of this system’s discharge capability and predicted canal water surface elevations for various storm events.

Table 4 - West Basin Discharge Capability and Water Surface Elevation

Canal	Downstream Peak Discharge Q (cubic feet per second) 25-year, 3-day	Canal Water Surface Elevation (feet N.G.V.D.)					
		10-year, 1-day		25-year, 3-day		100-year, 3-day	
		Upstream	Downstream	Upstream	Downstream	Upstream	Downstream
1	327.17	19.73	16.37	20.14	16.79	20.37	17.07
2	265.25	19.73	15.74	20.14	16.22	20.36	16.58
3	163.55	19.73	15.66	20.14	16.29	20.36	16.70
4	422.96	19.72	15.69	20.14	16.32	20.36	16.74
5	141.28	19.72	15.69	20.13	16.33	20.35	16.75
6	386.16	19.71	15.95	20.11	16.62	20.33	17.03
7	386.03	19.61	15.69	20.02	16.33	20.24	16.75
8	5.34	20.31	19.04	20.56	19.84	20.75	20.21
9	39.67	19.04	19.02	19.84	19.69	20.21	20.03
10	33.63	19.05	19.31	19.86	19.82	20.23	20.17
11	44.88	19.05	19.10	19.92	19.94	20.31	20.31
12	162.57	19.73 (N)	19.61 (S)	20.14 (N)	20.02 (S)	20.37 (N)	20.24 (S)
13	250.03	19.62 (N)	19.39 (S)	20.00 (N)	19.79 (S)	20.24 (N)	20.00 (S)
14	328.98	15.69	15.66	16.33	16.29	16.75	16.71
15	28.35	18.60	19.05	19.71	19.92	20.15	20.31
16	44.22	20.31	19.09	20.56	19.94	20.75	20.32

Included in the above table under peak Q is the discharge flow capability with the use of the G-92 diversion structure. This structure provides an additional 400 cubic feet per second discharge at 0.5 foot headloss from South Indian River Water Control District’s C-14 into Canal C-18 when the stage in C-14 reaches elevation 15.0 feet (see **Exhibit 8**).

The District receives 8 cubic feet per second from the drainage consisting of the west one-half of Section 4 and the east one-half of Section 5, Township 41 South, Range 41 East as a result of an arrangement with the landowners for contract drainage.

Connected to these canals is a network of roadside swales, which make up the secondary drainage system. These swales and minor culverts route stormwater runoff from the roadways and adjacent property to the primary canals. The water surface elevations in these swales will be somewhat higher than the elevations in the above table based on the distance from the canal and the canal stage at any given time.

The Sixth Amended Plan of Reclamation (see **Exhibit 1**) provided for an internal system design capable of removing 4 inches of runoff in a 24-hour period. However, downstream discharge capacity is approximately 2 inches in 24 hours into the Loxahatchee River with an additional 1 inch via the G-92 diversion structure into the C-18 Canal. The Ninth Plan of Improvements provided an additional five (5) lateral control structures to provide water quality and maintain the design discharge capacity permitted in the Sixth Plan of Reclamation.

Table 5 indicates the minimum road crown and building floor elevations recommended within the District.

Table 5 - Design Elevations by Section

Section-Township-Range	Minimum Road Crown Elevation (feet N.G.V.D.)	Minimum Building Floor Elevation (feet N.G.V.D.)
7-41-42	16.5	19.5
18-41-42	16.5	19.5
1-41-41	17.5	20.5
12-41-41	17.5	20.5
13-41-41	17.5	20.5
2-41-41	18.5	21.5
11-41-41	18.5	21.5
14-41-41	18.5	21.5
3-41-41	19.5	22.5
10-41-41	19.5	22.5
15-41-41	19.5	22.5
4-41-41	20.0	23.0
9-41-41	20.0	23.0
16-41-41	20.0	23.0
34-40-41	20.0	23.0
33-40-41	20.5	23.5

Note: Minimum road crown elevation refers to paved roads in accordance with County Standards

Section 7 Drainage Improvement Project

Section 7 is 611 acres in size and located south of Canal 3, west of C-14, north of Canal 5 and east of Jupiter Farms Road. The project, completed in 2023, included clearing existing drainage easements, of exotic vegetation, re-contouring ditches for additional storage and providing new control structures at twelve (12) outfalls to provide water quality treatment through detention within swales. The project received a Florida Department of Environmental Protection Grant in the amount of \$353,650.

East Basin

The east basin comprises of approximately 2,657 acres of land east of the C-18 canal. This basin is divided into three (3) sub-basins. The west sub-basin (Basin 1) consists of approximately 2,196 acres with approximately 112 acres of canals. The eastern basin consists of 2 areas east of the Turnpike and I-

95. These basins are the Section 9 basin (Basin 2), also known as Jupiter Park of Commerce and the Section 15 basin (Basin 3), also known as Egret Landing.

Similar to the District’s west basin facilities, the east basin (including all 3 sub-basins) operates as a gravity system comprised of primary canals and culverts (see **Figure 2**). The maximum discharge rate for the east basin of South Indian River Water Control District is approximately 535 cubic feet per second. The east basin maximum discharge rate includes inflow from the Turnpike and I-95 systems as well as an additional 29 cubic feet per second for off-site drainage areas. The 29 cubic feet per second is a pre-development rate for the area in Section 8 south of C-18 and the area in Section 3 south of C-18.

Table 6 illustrates the flood stages at control structures in the three sub-basins have been calculated to be the following:

Table 6 - East Basin Water Surface Elevation

Storm	Canal Water Surface Elevation (feet N.G.V.D.)		
	Basin 1	Basin 2 (Section 9)	Basin 3 (Section 15)
10-Year, 1-Day	15.6	17.7	19.4
10-Year, 3-Day	16.3	18.8	20.2
25-Year, 3-Day	16.6	18.8	20.2
100-Year, 3-Day	16.9	20.0	20.7
100-Year, 3-Day Zero Discharge	17.4	16.2	16.4

A network of roadside swales is the secondary drainage system which is connected to the primary canals. These swales and minor culverts route stormwater runoff from the roadways and adjacent property to the primary canals. The water surface water elevations in these swales may be somewhat higher than the elevations listed in Table 6 based on the distance from the primary canal and the elevation of the primary canal at any given time.

The system provides storage to protect the existing roadways from a 10-year, 1-day storm event. All paved roads (existing and future) shall have a minimum road crown elevation of 16.5 feet National Geodetic Vertical Datum in Basin 1 and 14.5 feet National Geodetic Vertical Datum in Basins 2 and 3.

In order to safeguard homes from a 100-year, 3-day storm event with zero discharge the minimum finished floor elevations are 19.0 feet National Geodetic Vertical Datum in Basin 1 and 17.5 feet National Geodetic Vertical Datum in Basins 2 and 3.

Roadways and Bridges

South Indian River Water Control District has approved and constructed roadway improvements through the Districts Plan of Improvements. The Section 15, Section 9, 10th Plan of Improvement, 11th Plan of Improvement, 12th Plan of Improvement, 14th Plan of Improvement, 15th Plan of Improvement, 16th Plan of Improvement, 17th Plan of Improvement, 18th Plan of Improvement, and 19th Plan of Improvement improvements included applying asphalt or Open Graded Emulsified Mix to dirt roadways.

More detail on the extent of the improvements within each Plan of Improvement is summarized below and in **Figure 3**.

Section 15 – T41S, R42E Improvements – November 1989

The subject of this plan is a 250 (approximately) acre parcel located in the north half of Section 15, Township 41 South, and Range 42 East. The parcel is bordered on the western property line by Interstate I-95 and on the eastern property line by the North Palm Beach Heights Water Control District outfall canal. The northern property boundary aligns with the extension of Indian Creek Parkway and the southern property line is bordered by the North Palm Beach Heights Subdivision.

- The proposed roadway plan includes the paving of approximately six miles of roadway to serve the project. Drainage is by means of 2-foot concrete valley gutters and/or swales on either side of the pavement. Catch basins are located at various points to collect stormwater runoff and convey the stormwater to the lakes via storm sewers.

Section 9 – T41S, R42E Phase 2 Improvements – June 1990 (revision to Dec 1984 Plan of Improvements)

The subject of this plan was a 55-acre parcel located in that portion of Section 9, Township 41 South, Range 42 East, lying east of and adjacent to the Interstate I-95 right-of-way and south of the South Indian River Water Control District Canal “J”. This parcel is bordered on the western property line by Interstate I-95, and on the eastern property line by Loxahatchee River Environmental Control District and Indian Creek, and on the northern property line by South Indian River Water Control District Canal “J”.

The plan included the paving of 1.1 miles of roadway to serve the project. The roads lie within 60-foot rights-of-way and consist of 24 feet of pavement centered within the right-of-way. Drainage is by means of 2-foot concrete valley gutters and/or swales on either side of the pavement. Catch basins are located at various points to collect stormwater runoff and convey the stormwater to the lakes via storm sewers.

10th Plan of Improvements – May 2003

The purpose of the **Tenth Plan of Improvements** was to provide for roadway improvements to approximately four miles of roads within Section 18/Township 41S, Range 42E in the west basin of South Indian River Water Control District. The roadway improvement project consists of the application of an Open Graded Emulsified Mix to portions of the 159th Terrace N., 155th Place N., 154th Road N., and 150th Court N. All of the lands that benefit from the implementation of the Tenth Plan of Improvements are included in that portion of the District lying west of the South Florida Water Management District C-18 Canal and located in Section 18.

11th Plan of Improvements – February 2004

The purpose of the **Eleventh Plan of Improvements** was to provide for roadway improvements to approximately 1.7 miles of roads within South Indian River Water Control District. The roadway

improvements project consists of the application of asphalt in accordance with Palm Beach County Standards. The application will be to the following roadways:

- 145th Place N. from 69th Drive N. to 64th Way N.
- 68th Drive N. from 143rd Street N. to 145th Place N.
- 67th Trail N. from 143rd Street N. to 145th Place N.
- 66th Trail North from 143rd Street North to 145th Place North
- 65th Way North from 143rd Street North to 145th Place North
- 64th Way North from 143rd Street North to 145th Place North

12th Plan of Improvements – September 2004

The purpose of the **Twelfth Plan of Improvements** was to provide for roadway improvements to approximately 16.1 miles of roads within South Indian River Water Control District. The roadway improvement project consists of the application of an Open Graded Emulsified Mix to the following roadway sections:

- Mellen Lane (125th Avenue North) from 150th Street North to Sandy Run
- 115th Avenue North from 150th Court north to Sandy Run
- 160th Lane North from 75th Avenue North to 79th Terrace North
- Haynie Lane from 167th Place to Sandy Run
- 154th Road North from Jupiter Farms Road to 110th Avenue North
- 174th Court North from Alexander Run to 130th Avenue North
- 165th Road North from Randolph Siding to 105th Drive
- 154th Road North from Alexander Run to Mellen Lane
- 166th Way North from 95th Way to 90th Terrace North
- 150th Court North from Jupiter Farms Road to 118th Street
- 120th Terrace North from Indiantown Road to 189th Court
- 95th Avenue North from 155th Road North to 159th Court North
- Mockingbird Trail from Jupiter Farms Road to Robin Way
- 118th Terrace North from 150th Court North to 154th Road North
- 151st Lane North from 101st Trail North to 110th Avenue North
- 105th Drive North from 150th Court North to 159th Court North
- Quail Trail from Jupiter Farms Road to Robin Way and Robin Way from Quail Trail to Whippoorwill Trail
- 134th Terrace North from Randolph Siding to 169th Court North and 169th Court North from 134th Terrace north to Brian Way
- Whippoorwill Trail from Jupiter Farms Road to Robin Way
- 131st Way North from 165th Road North to 169th Court North

14th Plan of Improvements – February 2007

The purpose of the **Fourteenth Plan of Improvements** was to provide for roadway improvements to approximately 13 miles of roads within South Indian River Water Control District. The roadway improvements project consisted of an Open Graded Emulsified Mix to the following roadway sections:

- 150th Court N. from 133rd Terrace to Canal 7
- 189th Court N. from Old Indiantown Road to Canal 10
- 110th Avenue from Sandy Run to 150th Court N.
- 153rd Court N. from 110th Avenue N. to 115th Avenue N.
- 111th Terrace from 150th Court N. to 154th Road N.
- 93rd Lane N. from 150th Court N. to 154th Road N.
- 158th Street N. from 133rd Terrace N. west to West Perimeter Canal
- 150th Court N. from 125th Avenue N. to 128th Terrace N.
- 128th Terrace N. from 164th Court N. to Randolph Siding Road
- 156th Street from 133rd Terrace N. to West Perimeter Canal
- 123rd Terrace N. from Randolph Siding Road to 164th Court N.
- 158th Street N. from 110th Avenue N. to 105th Avenue N.
- 150th Lane N. from 129th Terrace N. to 133rd Terrace N.
- 169th Court N. from Mellen Lane to 130th Avenue N.
- 159th Street N. from 133rd Terrace N. to West Perimeter Canal
- 153rd Court N. from 105th Avenue N. to 110th Avenue N.
- 175th Road N. from Mellen Lane to 130th Avenue N.
- 189th Court N. from 120th Terrace N. to 125th Avenue N. and 125th Avenue from Old Indiantown Road and 189th Court N.
- 154th Road N. from 115th Avenue N. to 111th Terrace N.
- 179th Road N. from Mellen Lane (125th Avenue N) to 130th Avenue N.
- 127th Drive N. from 165th Road N. to 169th Court N.
- 155th Place N. from 133rd Terrace N. to West Perimeter Canal
- 170th Court N. from Alexander Run to Mellen Lane
- 103rd Terrace N. from Indiantown Road to Canal 2
- 126th Terrace N. from 185th Street N. to 187th Street N.
- 129th Place N. from Randolph Siding to Sandy Run
- 121st Drive N. from 175th Road N. to 179 Court N.

15th Plan of Improvements – April 2009

The purpose of the **Fifteenth Plan of Improvements** was to provide for roadway improvements to approximately 2.1 miles of roads within South Indian River Water Control District. The roadway improvement project consisted of the application of asphalt and Open Graded Emulsified Mix to the following roadways sections:

Open Graded Emulsified Mix (1.1miles):

- 152nd Street N. between 111th Terrace N. and 115th Avenue N.
- 158th Street N. between 133rd Terrace N. and Canal 13(East Perimeter Canal)
- 187th Place N. between 126th Terrace N. and 129th Terrace N. and 129th Terrace N. between 186th Court N. and 187th Place N.

Asphalt (1.0 Miles):

- Rocky Pines Road from Indiantown Road south to the end, including 172nd Place N.

16th Plan of Improvements – October 2010

The **Sixteenth Plan of Improvement** provided roadway improvements for approximately 5.5 miles of roads within South Indian River Water Control District. Of the 5.5 miles of roadway, 1.5 miles consisted of an application of Open Graded Emulsified Mix, and another 4.0 miles of asphalt in accordance with Palm Beach County Standards. A breakdown of which roadways participated can be found below.

Open Graded Emulsified Mix (1.5 Miles):

- 98th Trail N. between 150th Court N. and 154th Road N.
- 151st Lane N. between 133rd Terrace N. and Canal 13
- 92nd Way N. between 150th Court N. and 154th Road N.
- 80th Drive N. between 155th Place N. and 159th Court N.

Asphalt (4.0 Miles):

- 72nd Drive N. between 150th Place N. and 154th Road N.
- 165th Street N. between 75th Avenue N. and 79th Terrace N.
- 72nd Drive N. between 155th Drive N. and 159th Court N.
- 167th Court N. between 75th Avenue N. and 78th Drive N.
- 84th Avenue N. between 15th Place N. and 159th Court N.
- 140th Lane N. between 64th Drive N. and 69th Drive N.
- 75th Way N. between 165th Street N. and 167th Court N.
- 67th Avenue N. between 141st Lane N. and Donald Ross Road
- 71st Drive N. between 150th Place N. and 154th Road N.
- 151st Court N. between 69th Drive N. and 69th Trail N.
- 154th Road N. between 69th Drive N. and 75th Avenue N.

17th Plan of Improvements - 2013

The purpose of the **Seventeenth Plan of Improvements** was to provide for roadway improvements to approximately 1.9 miles of roads within South Indian River Water Control District. The roadway improvements project will consist of the application of an Open Graded Emulsified Mix to 0.4 miles of roadways and approximately 1.5 miles of applying asphalt to roadways in accordance with Palm Beach County Standards. A breakdown of which roadways participated can be found below:

Open Graded Emulsified Mix (0.4 Miles):

- 127th Drive N. between 187th Place N. and Old Indiantown Grade
- 90th Terrace North between 165th Place N. and 166th Way N.

Asphalt (1.5 Miles):

- 73rd Terrace N. between 155th Place N. and 159th Court N.
- 79th Terrace N. between 155th Place N. and 162nd Court N.
- 75th Way N. between 163rd Court N. and 165th Street N.
- 77th Trail N. between 165th Street N. and 167th court N.

18th Plan of Improvements - 2015

The purpose of the **Eighteenth Plan of Improvements** was to provide for roadway improvements to approximately 3.8 miles of roads within South Indian River Water Control District. The roadway improvement project consisted of the application of asphalt to roadways in accordance with Palm Beach County Standards. Unit of Development RI-18 consisted of the roads listed as follows:

- 64th Way N. Between 146th Road N. and 149th Place N.
- 67th Trail N. Between 146th Road N. and 149th Place N.
- 68th Drive. N. between 146th Road N. and 149th Place N.
- 74th Avenue N. Between 155th Place N. and 159th Court N.
- 75th Way N. between 150th Court N. and 154th Court N.
- 77th Trail N. between 150th Court N. and 154th Court N.
- 78th Drive N. between 155th Place N. and 159th Court N.
- 81st Terrace N. between 150th Court and 154th Court N.
- 149th Place between 69th Drive N. and 64th Way N.
- 163rd Court N. between 75th Avenue N. and 79th Terrace N.
- 163rd Court N. between 75th Ave N. East to East End

19th Plan of Improvements - 2017

The purpose of the **Nineteenth Plan of Improvements** was to provide for roadway improvements to approximately 2.4 miles of roads within South Indian River Water Control District. The roadway improvement project consisted of the application of asphalt to the following roadways in accordance with Palm Beach County Standards.

- 76th Trail N. between 160th Lane N. and 162nd Court N.
- 76th Trail N. between 163rd Court N. and 165th Street N.
- 78th Drive N. between 165th Street N. and 167th Court N.
- 154th Court N. between 75th Avenue N. and 81st Terrace N.
- 159th Court N. between 78th Drive N. and 84th Avenue N.
- 160th Street N. between 72nd Drive N. and 75th Avenue N. and 72nd Drive N. from 160th Street N. to 160th Lane N.
- 175th Road N. between Jupiter Farms Road and West End

20th Plan of Improvements - 2025

The purpose of the **Twentieth Plan of Improvements** (see **Exhibit 38**) was to provide for roadway improvements to approximately 0.1 miles of roads within South Indian River Water Control District. The roadway improvement project consisted of the application of asphalt to the following roadway in accordance with Palm Beach County Standards.

- 153rd Court N. between 69th Drive N. and 69th Trail N.

All of the District’s roadways are maintained in good condition to provide access to each parcel of land.

Bridges

In January of 1986, the South Florida Water Management District purchased the west half of Sec 18-41-42 for the Loxahatchee River “Save Our Rivers” project. With that purchase, South Florida Water Management District obtained the fee interest of the right-of-way, as well as a privately owned bridge which spans the C-18 Canal. This bridge, referred to as the “Reese Bridge” had served as a crossing point from one side of the levee to the other for South Florida Water Management District as well as South Indian River Water Control District staff and crews for many years. In December of 2015, South Florida Water Management District transferred the Right-of-Way Permit for the bridge to South Indian River Water Control District, and in doing so, South Indian River Water Control District assumed all future maintenance responsibilities through the issuance of the Right-of-Way Permit. The transfer served South Indian River Water Control District’s needs as a vital service route from the Operations center west of the C-18 Canal and South Indian River Water Control District’s areas of responsibility on the eastern side of the canal. The bridge, however, is still available to South Florida Water Management District staff if needed.

An engineering inspection report of the bridge was completed in 2009, which identified areas in need of repair. The repair work was completed in 2016.

In addition to the bridge over the C-18 Canal, South Indian River Water Control District also owns and maintains a bridge over the C-14 Canal.

Administrative and Operation Facilities

The District's office and maintenance facility located on Jupiter Farms Road is utilized by a staff of sixteen (16) full-time and one part-time employee, including the Executive Director, Supervisor of Operations and the Office Administrator. These facilities provide the necessary office space to support the daily administrative and managerial functions of the District. The District's inventory of equipment is used to maintain roadways, canals, swales and other District works. The facility also provides the necessary storage space and a location for maintenance of the District's inventory of equipment.

No expansion to the District's office or maintenance facility is planned at this time. Maintenance operations for the District facilities are being adequately accomplished with the existing number of personnel.

Currently the District has an adequate inventory of equipment to repair and maintain the canals, structures, and roadways within South Indian River Water Control District. The District plans to purchase equipment over the next five (5) years as part of its renewal and replacement program. This is outlined in greater detail in the next section of this report.

Water and Sewer

Potable water service is supplied by the Town of Jupiter Water Department. Ownership, maintenance and operation of the proposed water distribution facilities, up to and including the meter, are the responsibility of the Town of Jupiter Water Department. Wastewater collection and treatment is provided by the Loxahatchee River Environmental Control District. Ownership, maintenance and operation of the sewer facilities are the responsibility of the Loxahatchee River Environmental Control District.

No new potable water and sewer improvements are proposed at this time.

Proposed Improvements

Water Control Facilities

The District proposes to construct the following project this year:

Canal C Realignment – Canal C is approximately 1.7 miles long and located in Palm Beach Country Estates, see **Figure 4**. Canal C is not centered within the existing right-of-way, allowing for little or no space for maintenance. The proposed project will benefit the area by widening and deepening Canal C to provide additional storage volume for nutrient removal, flood protection and water conservation. Additionally, the project will provide a maintenance platform along the south side of Canal C which will allow for the removal of excess and exotic vegetative growth, removal of silt, and general maintenance, improving water quality discharged from South Indian River Water Control District Canals. South Indian River Water Control District received a Florida Department of Environmental Protection Grant for Bidding and Contractor Selection and Construction.

A contract was awarded for construction of a portion of the Canal C project and a Notice to Proceed was issued to the Contractor on February 3, 2025. Construction was completed in June 2025.

Operation and maintenance will be the continued responsibility of South Indian River Water Control District.

Roadways

The 20th Plan of Improvements passed by referendum and South Indian River Water Control District awarded the contract for construction. The 20th Plan of Improvements is a small asphalt paving project, see **Figure 5** that consists of applying asphalt in accordance with Palm Beach County Standards to the following road:

- 153rd Ct N. between 69th Dr N. and 69th Trail N. (0.1 mile)

The 20th Plan of Improvements is scheduled for completion in July 2025.

Administrative and Operation Facilities

No new facilities or improvements to any existing facilities are proposed currently. However, under the District’s projected renewal and replacement program, **Tables 7 and 8** include a list of vehicles and equipment that are anticipated to be purchased over the next five (5) years to support maintenance operations:

Table 7 - Future Vehicle Purchases

Purchase year	Vehicle
2024-25	Dump truck 14yd steel Demo box, diesel
2025-26	Dump truck 14yd steel Demo box, diesel
2025-26	Pickup truck 5500 4X4 flat bed dually, diesel
2026-27	Pickup truck 5500 4X4 service bed, lift, welder, torch, diesel
2026-27	Pickup truck 5500 4X4 flat bed dually, diesel
2027-28	Pickup truck 5500 4X4 flat bed dually, diesel
2027-28	Pickup truck Crew Cab 2500 4X4, diesel

Table 8 - Future Equipment Purchases

Purchase year	Equipment
2025-26	Excavator, long reach
2026-27	JD Utility Tractor 4X4 with mower deck
2027-28	Utility Tractor 4X4 with Boom mower
2027-28	Mini Excavator
2027-28	Utility Tractor 4X4 with Boom mower
2028-29	Backhoe
2028-29	Utility Tractor 4X4 with Boom mower

Water and Sewer

No water and sewer improvements are currently proposed.

Financing

Any major new facilities proposed to be constructed within the District will likely be funded through the sale of special assessment bonds. Facilities and equipment that the District proposes to replace per the renewal and replacement program will be funded through annual special assessments. Individual assessments will be based upon the benefits to the land being assessed. In certain cases, landowner financing will be available to landowners.

Schedule for Implementation

A hydraulic and hydrologic model is being developed for Palm Beach Country Estates and survey data being collected for canal rights-of way and easements and culvert crossings in Jupiter Farms. It is anticipated that additional capital improvement projects may be identified as a result of these efforts.

Operation and Maintenance

Canal Clearing and Maintenance

The District's system, consisting of over 60 miles of canals is continuously being enhanced and restored. These services include the clearing, grading and shaping of the canals themselves as well as restored/replaced or enhanced structural improvements. The overall objective of this program is to restore and maintain a canal section that is easily accessible and, to the extent possible, free from trees and other vegetation that could fall into the canal during a major storm event and thereby create a restriction that would aggravate flooding.

Maintenance of Turnpike Borrow Canals

The District entered into an Agreement with the Florida Department of Transportation in 1984, which was subsequently amended by Addendum 1 in 2012, that permitted the District to operate and maintain the Turnpike Borrow Canals (see **Exhibit No. 39**) as part of the District's Surface Water Management Plan.

Policies and Procedures Manual

In accordance with the provisions of the Florida Statutes, the District maintains a Policies and Procedures Manual that is available to the public. The Manual presents and discusses such items as how the District is organized, how agendas are formulated and acted upon, the budget process, etc. Changes including deletions, additions and amendments are periodically undertaken to keep the District's Policies and Procedures consistent with Florida Statutes and other rules or codes that enable the District to function. The latest version of the Manual available on the District's website has an effective date of February 15, 2024, and was last revised February 20, 2025.

Roadways

The District has approximately 188 miles of roads within its boundaries (see **Figure 3**). In conjunction with Palm Beach County, South Indian River Water Control District completed a road improvement program for the construction of paved roadways in accordance with Palm Beach County specifications and standards. These roadways were turned over to Palm Beach County for perpetual ownership, operation and maintenance. Partial maintenance of the paved roads is accomplished by the District via an interlocal agreement with Palm Beach County. The remaining unpaved roads, existing Open Graded Emulsified Mix roads, and approximately 7.1 miles of County Roadway Standard roads in Palm Beach Country Estates within the District boundary are maintained by South Indian River Water Control District.

Culvert Replacement Program

The District staff continues to review the condition of District facilities on a regular basis to determine where to recommend and implement necessary replacement or remedial work within the system. The District is in the process of developing a Geographic Information System database of their infrastructure for the purposes of asset management. The new system will assist the District in developing prioritized schedules for maintenance, rehabilitation, and replacement.

Aquatic Weed Control Program

The District has continued efforts to control aquatic weeds within the primary canal system. This program includes control of emergent vegetation growth through the use of approved herbicides as provided for in the permits obtained from the State of Florida as well as mechanical removal of dead or accumulated vegetation that may present a potential for impeding the flow of storm water through the primary canal system. The program is aimed at reducing and minimizing the amount of weeds within the canal system. This is an on-going process and is necessary in order to keep canals from becoming overgrown and to provide a clean channel through the canal system to its outfall.

Water Quality Monitoring

With many ecological and regulatory pressures being exerted over the Loxahatchee River Basin area, it was recommended that the District sample and monitor water quality within and adjacent to its boundaries. The Loxahatchee River Environmental Control District has also been obtaining water quality samples for many years.

Due to the water quality legislation, the Board of Supervisors instructed staff to implement a water quality monitoring program that augments and expands the current Loxahatchee River Environmental Control District program. In July 2011, the District entered into a contract with a water sampling and testing firm. The samples are tested to analyze the surface water and groundwater for various metal, organic and inorganic contaminants as well as water quality criteria. The sampling locations for this program are shown on **Figure 6**. Staff monitors these locations monthly when the District discharges outside its boundaries.

As a requirement of the National Pollutant Discharge Elimination System Municipal Separate Storm Sewer (MS4) Permit, the District is required to update its Water Quality Assessment Program annually. The purpose of this assessment program is to provide information for the District to determine the overall effectiveness of its Stormwater Management Program in reducing stormwater pollutant loadings from its MS4 to receiving water bodies. The water quality information is being used to monitor the District's discharge and will be used in future analysis as needed for the National Pollutant Discharge Elimination System permit.

General Operation and Maintenance

The overall functions of District operations focus on maintaining the primary and secondary elements of the surface water management system and the graded roadways throughout the District. Further, the Executive Director facilitates interagency coordination with other public entities that operate and maintain assets within the District such as Palm Beach County Road and Bridge Division, Palm Beach County Parks and Recreation, Palm Beach County Fire Control, School District of Palm Beach County, Florida Department of Transportation, South Florida Water Management District, Town of Jupiter, the Loxahatchee River Environmental Control District, and others.

The District's surface water management system is designed, operated, and maintained for a mostly rural residential community with some commercial, industrial, and urban residential areas. Accordingly, certain low-lying areas within the District will experience ponding and storage of water during the wet season and following significant storms. Swales will have standing water, and many areas will be saturated for extended periods of time during the wet season. The continued development of low-lying areas in the District will result in a commensurate consumption of storage within the District's watershed. Where ponds are excavated on individual lots to supply the fill for house pads and related improvements, the consumption of available storage is not as severe because the pond serves as a compensating factor. Unfortunately, many landowners have decided to fill in their ponds and the storage is being reduced. Due to these instances, the District has been working with Palm Beach County to enforce its rules concerning the filling of lots.

Palm Beach County implemented their code through Policy and Procedure Memorandum PB-O-128 with an effective Date of July 8, 2022, and they have asked landowners to notify them of these types of activities. These issues are regularly discussed by the Board of Supervisors and District staff at the monthly meetings, with individual landowners, in forums and meetings within the District, and within the District's newsletter and other publications distributed throughout the District. The District's Board of Supervisors and staff work to assure that the surface water management system functions to the extent of its permitted capacity while recognizing the regulatory requirements imposed on the District by other agencies. All District work must be implemented within the adopted budget utilizing existing manpower, equipment and other resources available to accomplish the tasks.

Figures

Figures are available on the following pages.

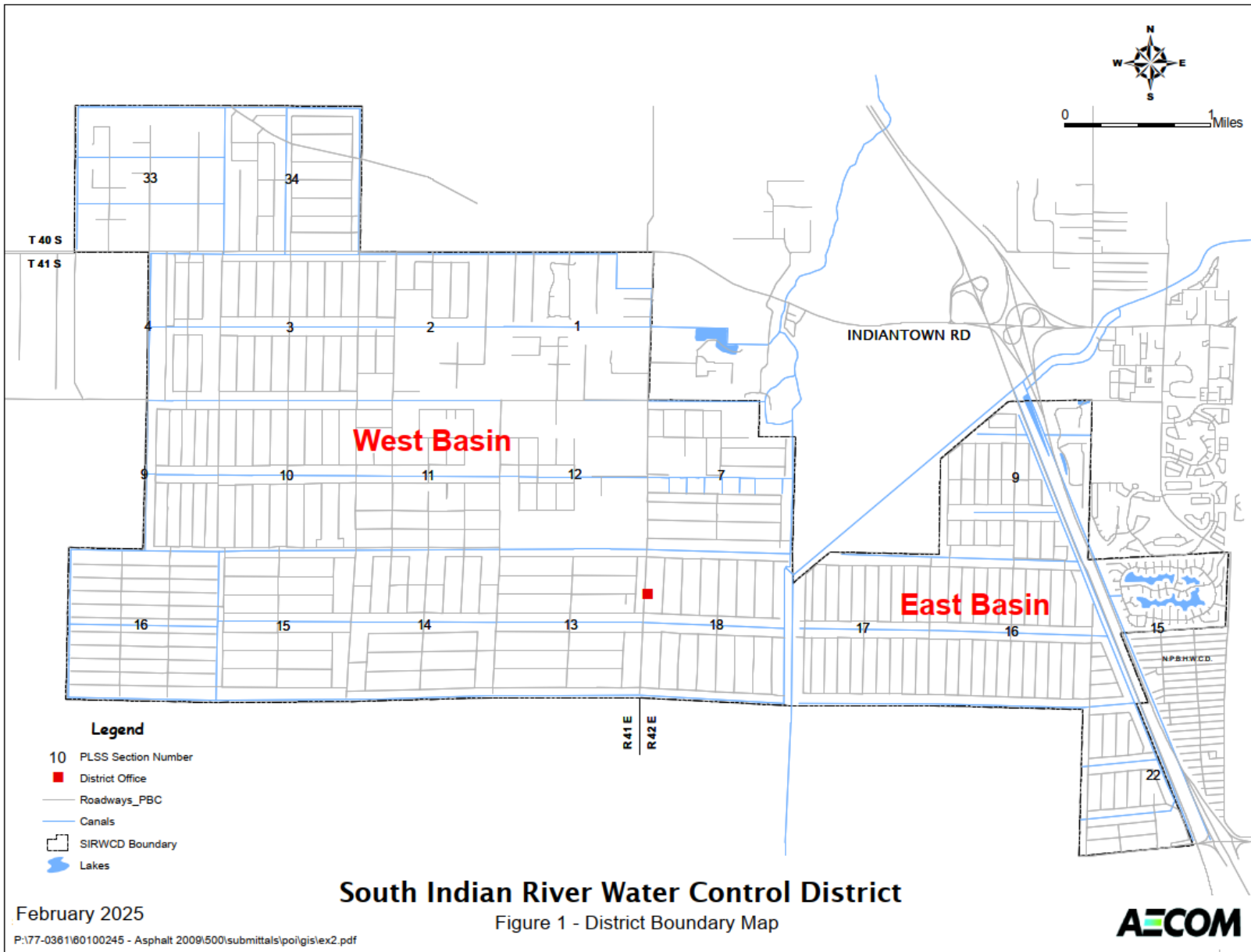


Figure 1 – District Boundary Map

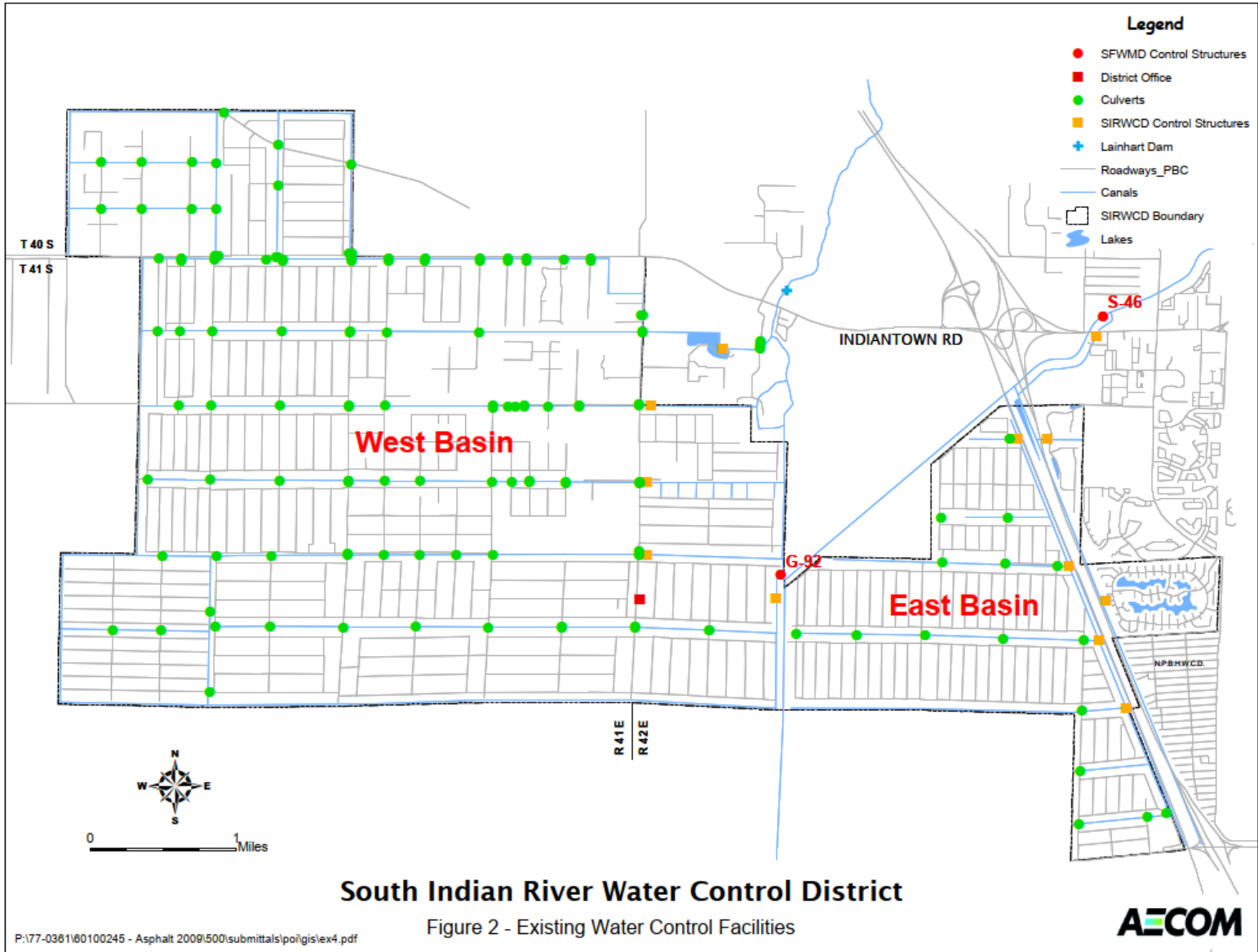


Figure 2 – Existing Water Control Facilities

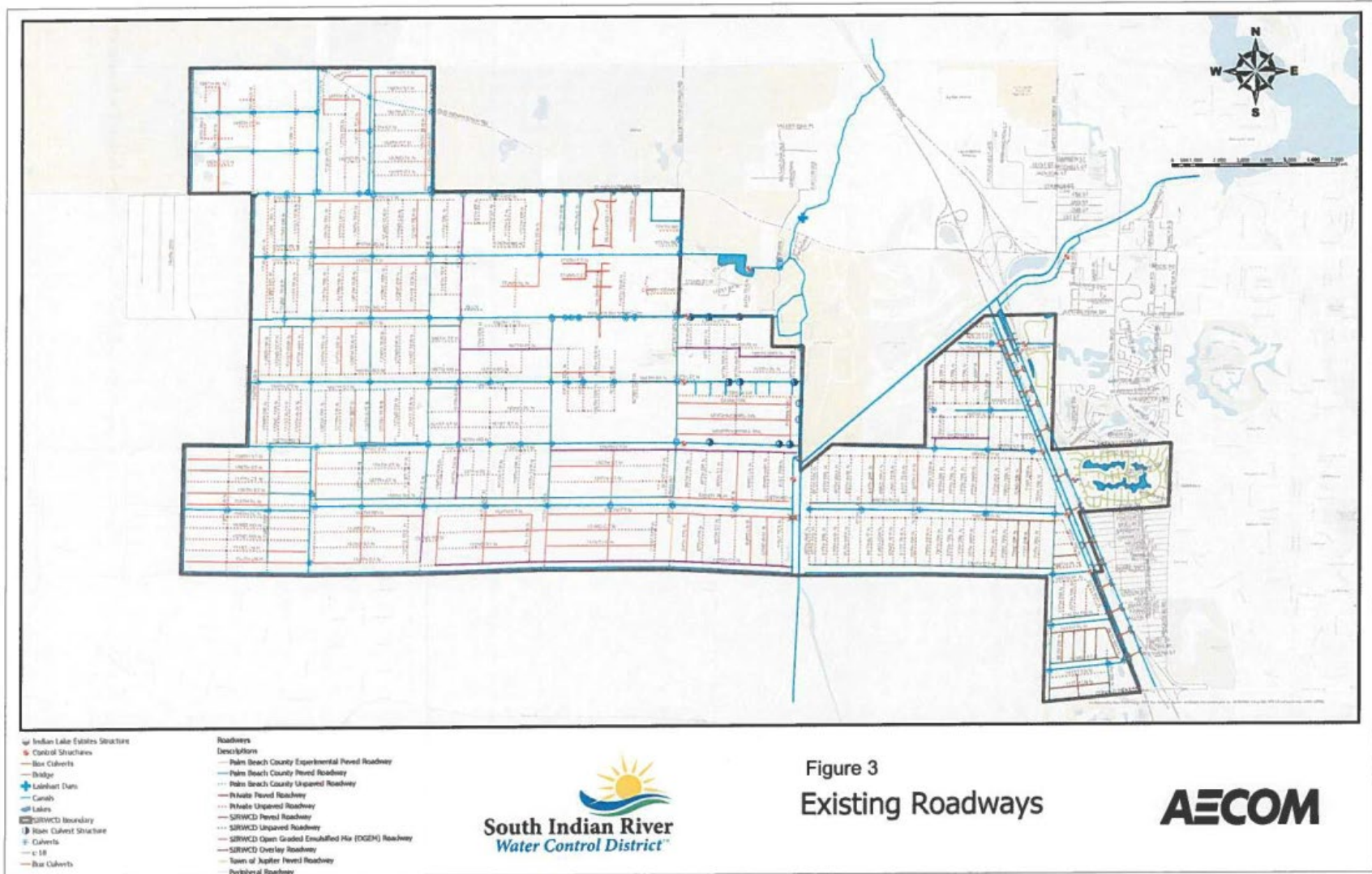


Figure 3 – Existing Roadways

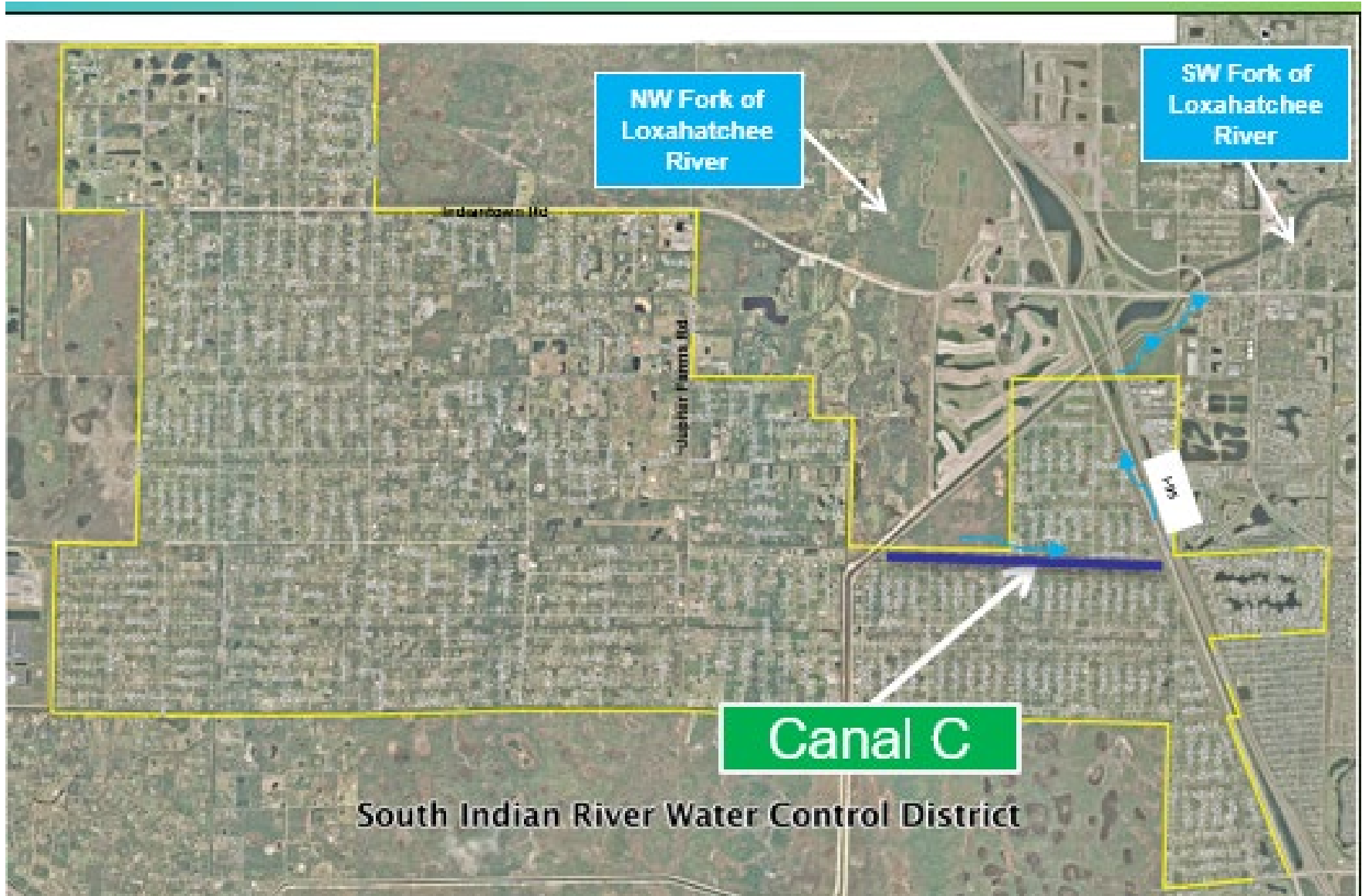


Figure 4 - Proposed Canal C Project Location



**SOUTH INDIAN RIVER
WATER CONTROL DISTRICT**
Section 15, Township 41S, Range 42E
153rd Court N.
(between 69th Drive N. and 69th Trail N.)

■ PROPOSED ROADWAY
IMPROVEMENTS (ASPHALT)

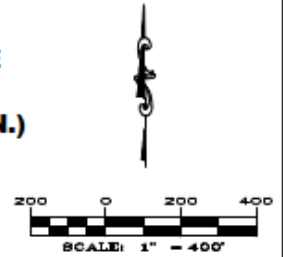


Figure 5 - 20th Plan of Improvements

Figure 5 – 20th Plan of Improvements

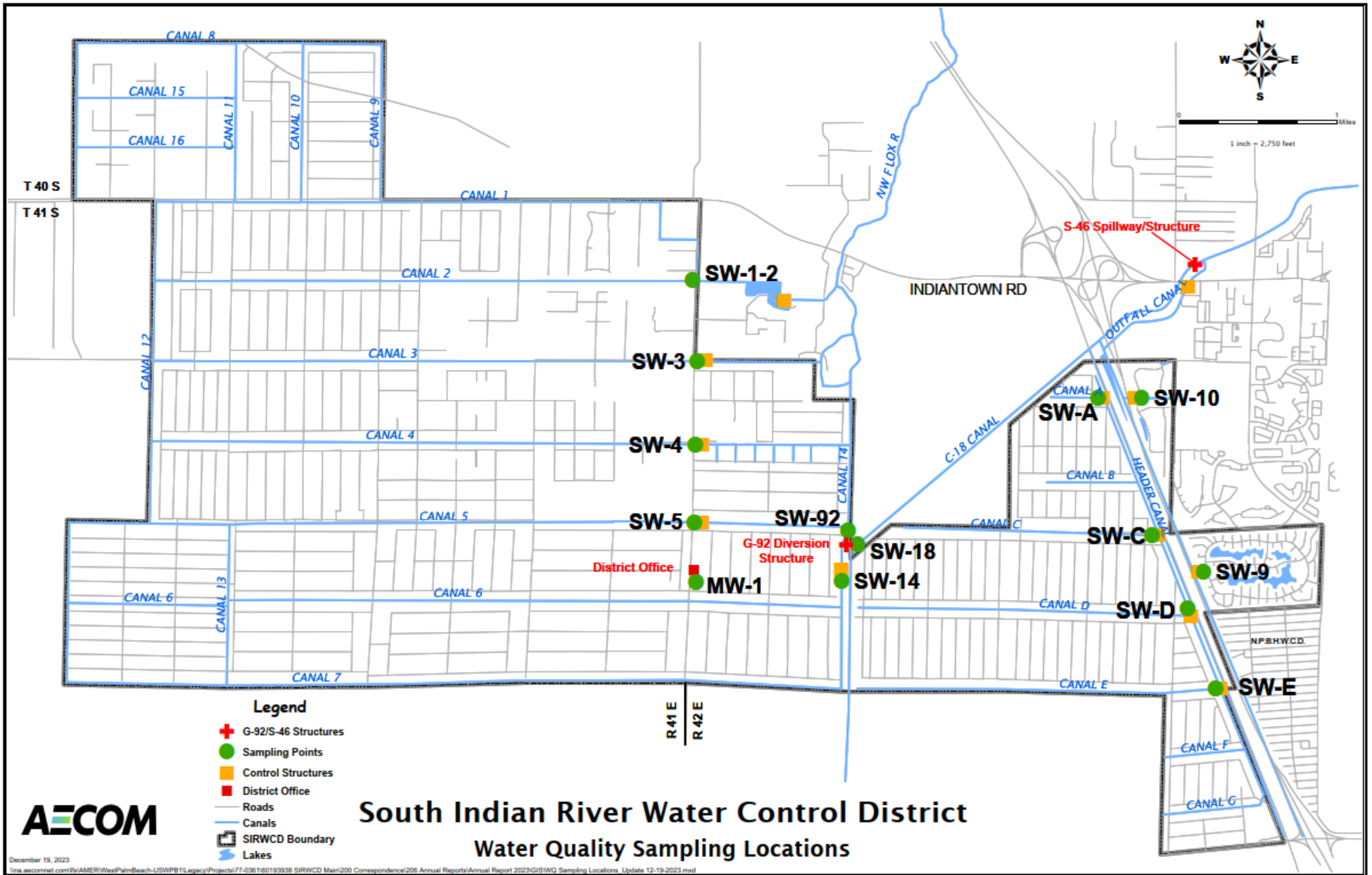


Figure 6 - Water Quality Sampling Locations

Exhibits (Provided under separate cover)

Due to the large number of exhibits (over 1000 pages), these are available upon request through the District office.