



JEA[®]
Building Community[®]

Water/Wastewater Capital Spend Plan Summit

September 11, 2018



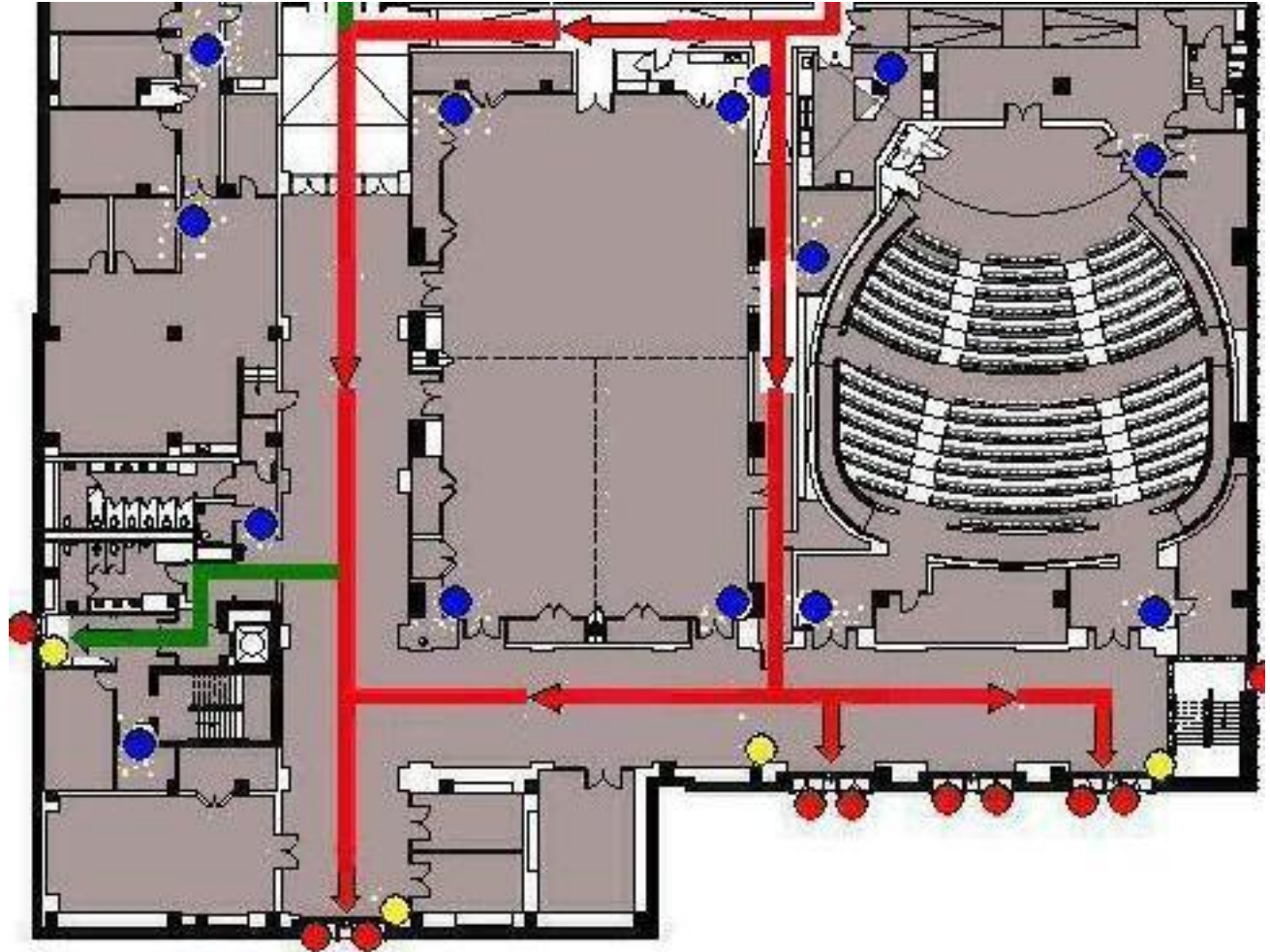
Agenda

- ❑ Safety Briefing – Joe Perez, Procurement Category Manager
- ❑ Welcome/Introductory Remarks – Aaron Zahn, JEA Interim CEO
- ❑ Purpose – Deryle Calhoun, VP/GM Water/Wastewater Systems
- ❑ Overview of the Water/Wastewater spend plan strategy – John McCarthy, VP & Chief Supply Chain Officer
- ❑ Capital Expense Plan Overview – Sean Conner, Director, Project Engineering & Construction
 - ❑ Wastewater Treatment Projects: Bradley Collier, Manager, Wastewater Plants
 - ❑ Water Treatment Projects: Hai Vu, Manager, Water Plants
 - ❑ Delivery & Collection Projects: Elizabeth DiMeo, Manager, Delivery and Collection
 - ❑ Contract Requirements: Bryan Dewberry, Manager, Project Controls
- ❑ Working with Procurement – Jenny McCollum, Director, Procurement Services
- ❑ Jacksonville Small & Emerging Businesses – Rita Scott, Manager, Jacksonville Small Emerging Business Programs
- ❑ Closing Remarks/Questions/Feedback: Deryle Calhoun/John McCarthy
- ❑ Networking – JEA staff and Vendors

Safety Briefing

Exit Routes

Exit route
Assembly Point
911
Security
Extinguishers
Hazards
Phones on silent



Welcome

Aaron Zahn
JEA Interim CEO



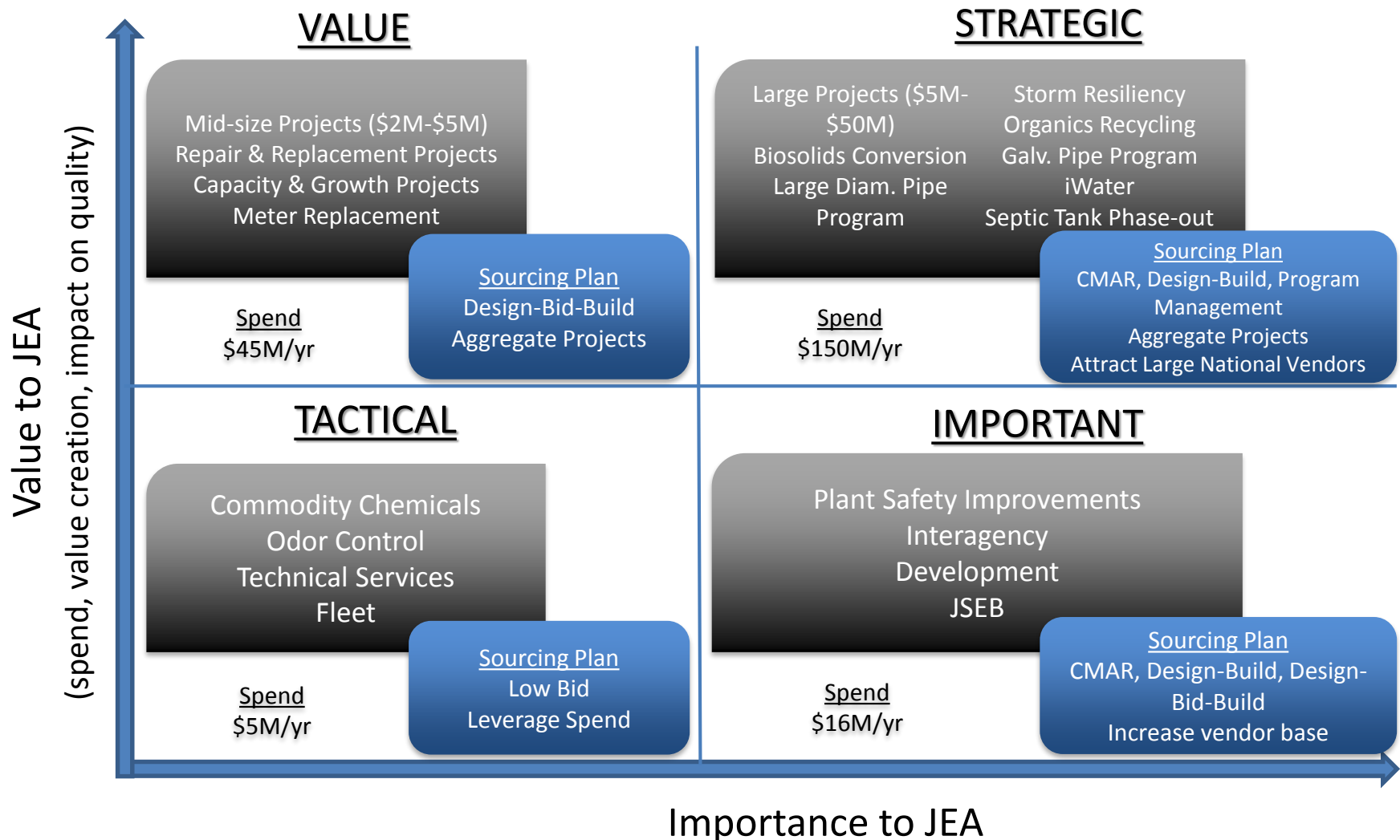
Deryle Calhoun VP/GM Water/Wastewater Systems

Purpose

- ❑ Deliver Approximately \$1B of Infrastructure Over Five Years
- ❑ Introduce New Roles: W/WW Systems and JEA Procurement
- ❑ Enhance Communication and Interaction
 - Engineering Consulting Firms
 - Construction Contractors
 - Jacksonville Small & Emerging Business
- ❑ Increase Number and Quality of Proposers and Bidders
- ❑ Utilize Alternative Project Delivery Methods

John McCarthy
VP & Chief Supply Chain Officer

Strategy

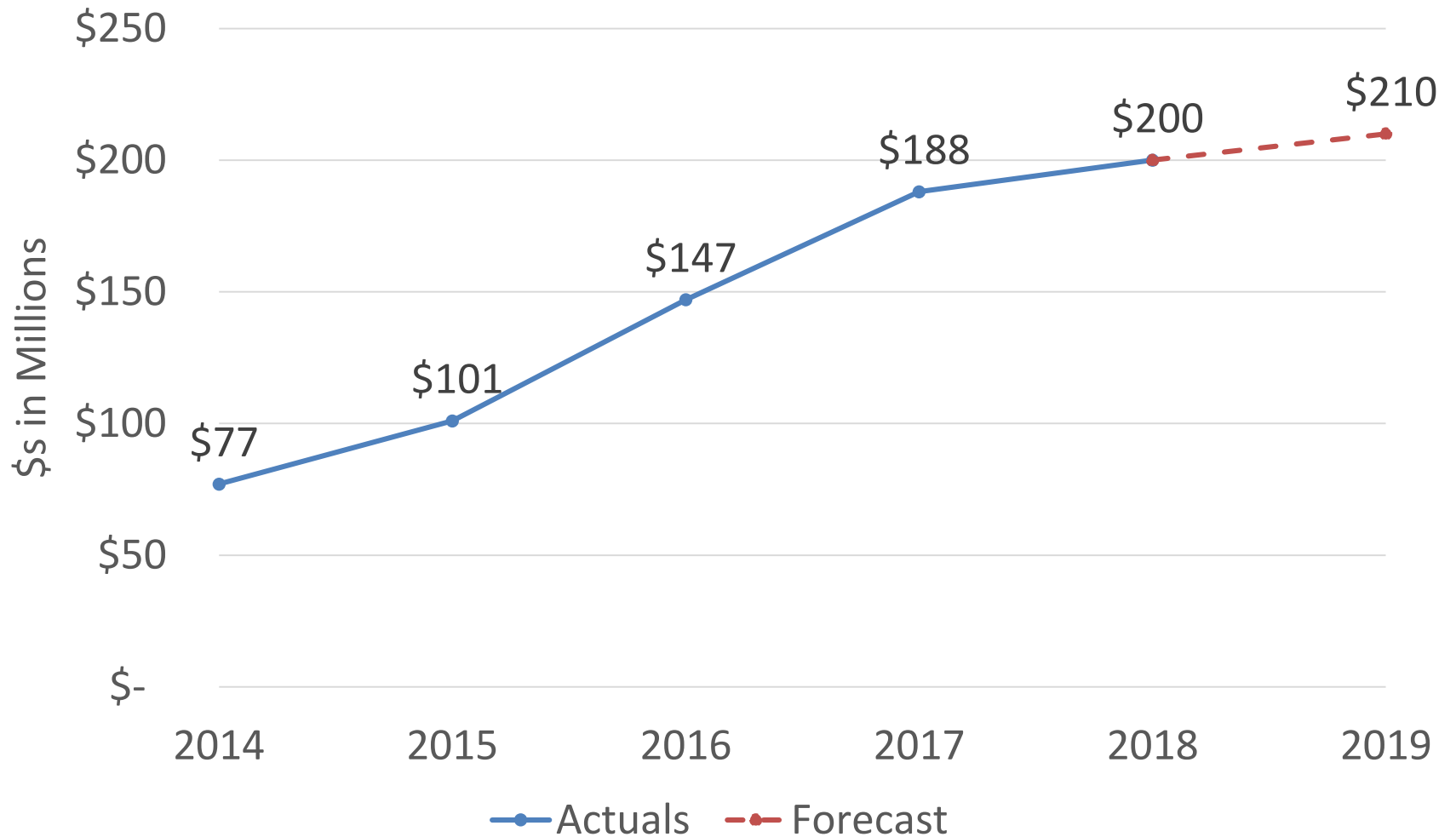


Capital Expense Plan Overview

Sean Conner

**Director, Project Engineering &
Construction**

Water/Wastewater CAPEX Over Time



Water/Wastewater 5-Year CAPEX

Draft Project List (\$'s in 1,000s)

Program Categories	Manager	FY18	FY19	FY20	FY21	FY22
Wastewater Treatment	B Collier	\$1,530	\$21,196	\$79,290	\$81,388	\$79,752
Water Treatment	H Vu	\$405	\$5,607	\$12,543	\$5,490	\$2,540
Delivery & Collection	B DiMeo	\$4,568	\$29,878	\$30,682	\$33,774	\$31,045
Subtotal		\$6,503	\$56,681	\$122,515	\$120,652	\$113,337

Individual Projects						
Wastewater Treatment	B Collier	\$2,760	\$23,344	\$11,598	\$7,103	\$3,000
Water Treatment	H Vu	\$4,128	\$17,081	\$18,182	\$11,483	\$5,894
Delivery & Collection	B DiMeo	\$1,261	\$7,778	\$11,255	\$16,226	\$30,279
Large Diameter Program	P Hallock	\$4,247	\$8,612	\$9,270	\$11,800	\$11,800
Interagency	M Sulayman	\$2,258	\$2,984	\$1,210	\$1,100	\$1,100
R&R Plants/Pump Stations	S Conner	\$33,382	\$39,286	\$39,844	\$45,440	\$39,410
R&R Delivery & Collection	K Chascin	\$11,492	\$12,122	\$10,499	\$11,095	\$11,095
Other W/WW		\$2,241	\$6,089	\$3,150	\$4,430	\$4,970
Subtotal		\$61,769	\$117,296	\$105,008	\$108,677	\$107,548
Other (Fleet, Facilities, Meters, IT, etc.)		\$37,189	\$39,974	\$32,916	\$34,627	\$32,471
Total		\$98,958	\$157,270	\$137,924	\$143,304	\$140,019

Projects - In Construction						
Total		\$100,713	\$34,351	\$2,022	\$0	\$0
Project Listing Grand Total		\$206,174	\$248,302	\$262,461	\$263,956	\$253,356

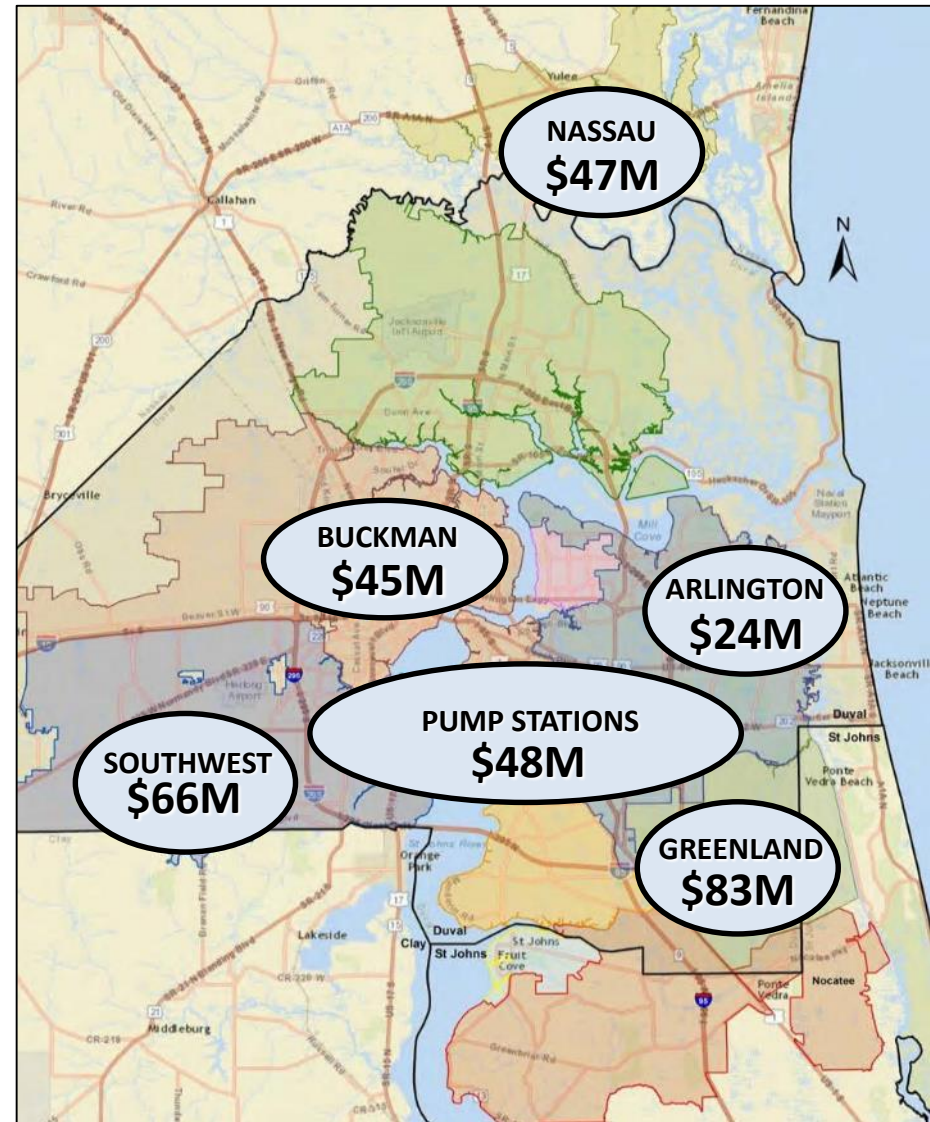
Projections:	\$210,000	\$210,000	\$210,000	\$210,000	\$210,000
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Wastewater Treatment Program Highlights

Program Name	Total Project
Greenland WRF	\$83M
Buckman Biosolids Conversion	45M
Nassau WRF	47M
Arlington East WRF Upgrades	24M
Southwest WRF	66M
Southwest Pump Stations	22M
East Grid Pump Stations	17M
District II Pump Stations	9M
Wastewater Programs Subtotal	\$313M
Wastewater Total	\$368M



Blacks Ford WRF

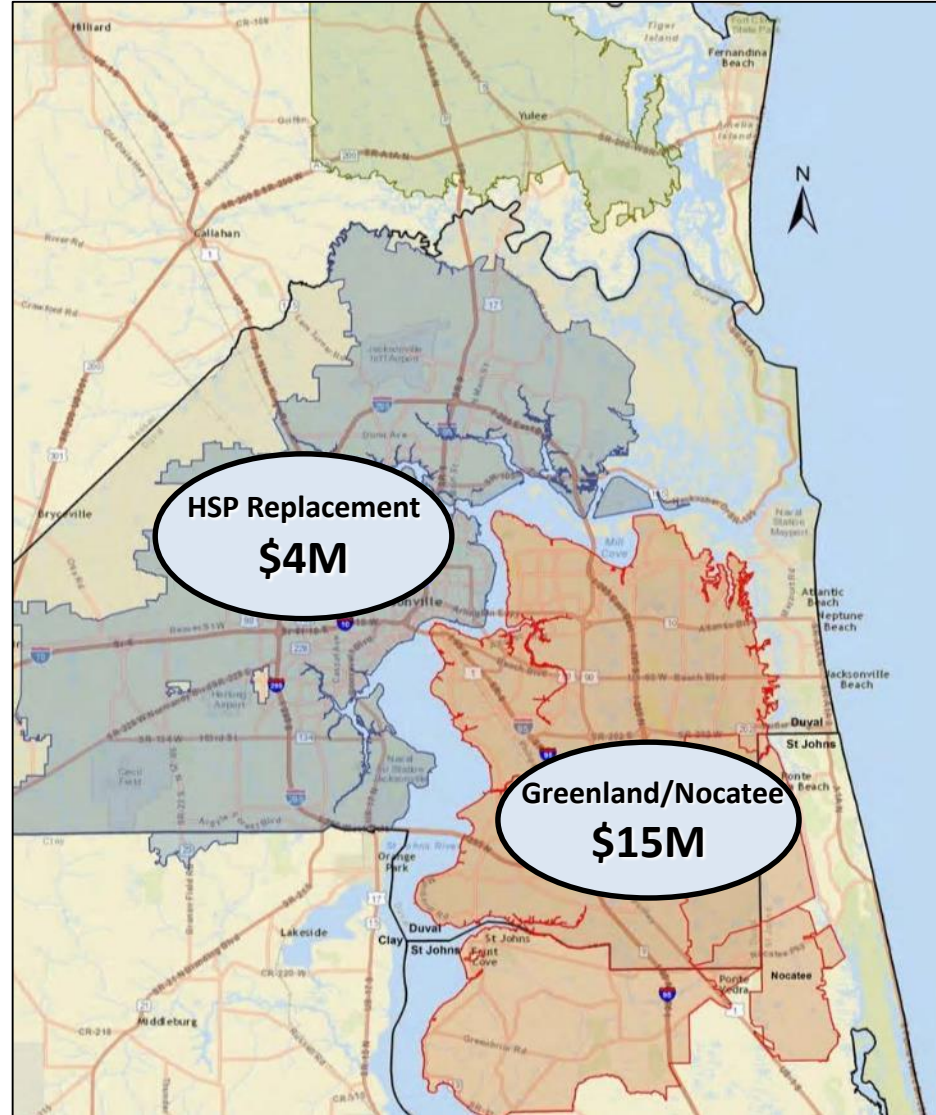


Water Treatment Program Highlights

Program Name	Total Project
Greenland WTP/Nocatee Water	\$15M
High Service Pump Replacement	4M
Water Programs Subtotal	\$19M
Water Total	\$65M

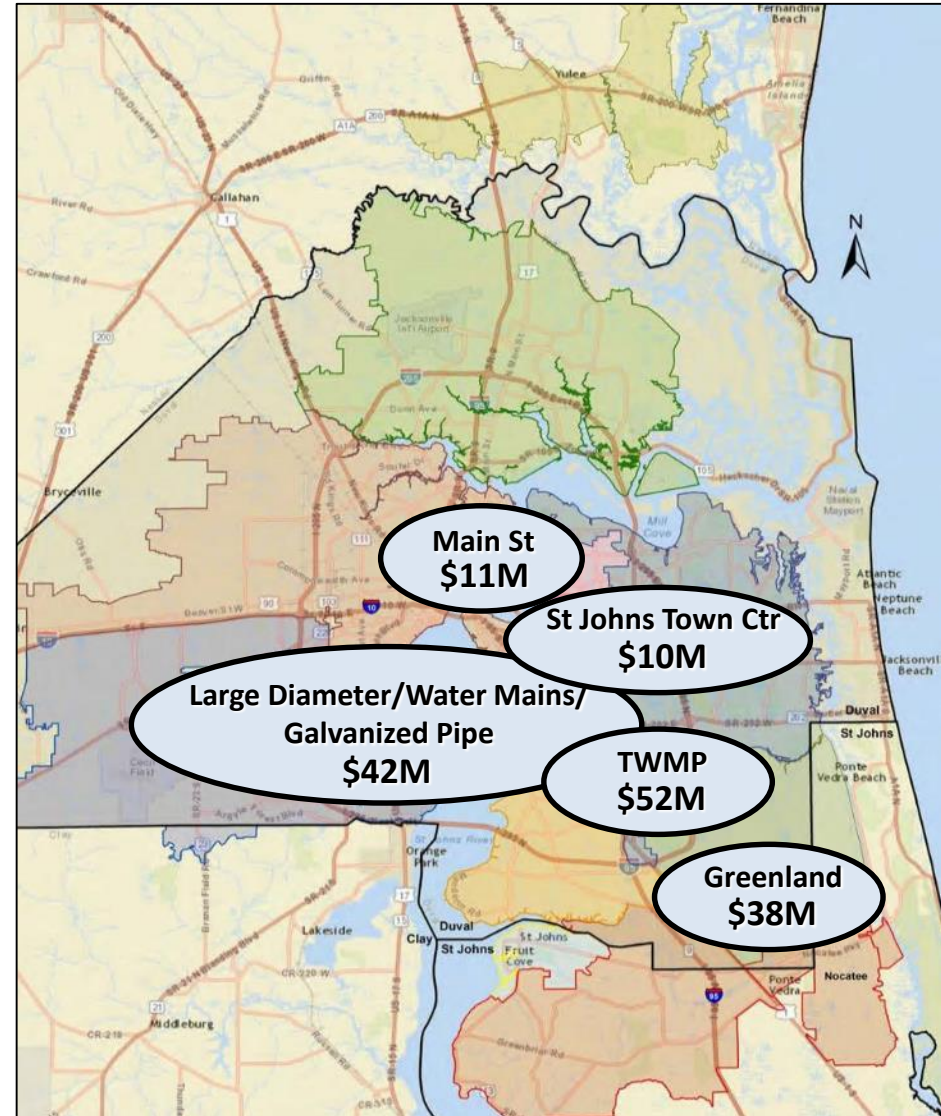


Northwest WTP



Delivery & Collection Program Highlights

Program Name	Total Project
Greenland	\$38M
TWMP	52M
Large Diameter Pipelines	20M
24" Water Mains	11M
Main Street	11M
St Johns Town Center	10M
Galvanized Pipe Replacement	10M
Water Main R&R	1M
D&C Programs Subtotal	\$153M
D&C Total	\$240M



South Shores Sub-Aqueous FM Crossing

Wastewater Treatment Projects

Bradley Collier
Manager, Wastewater Plants



Greenland WRF Program

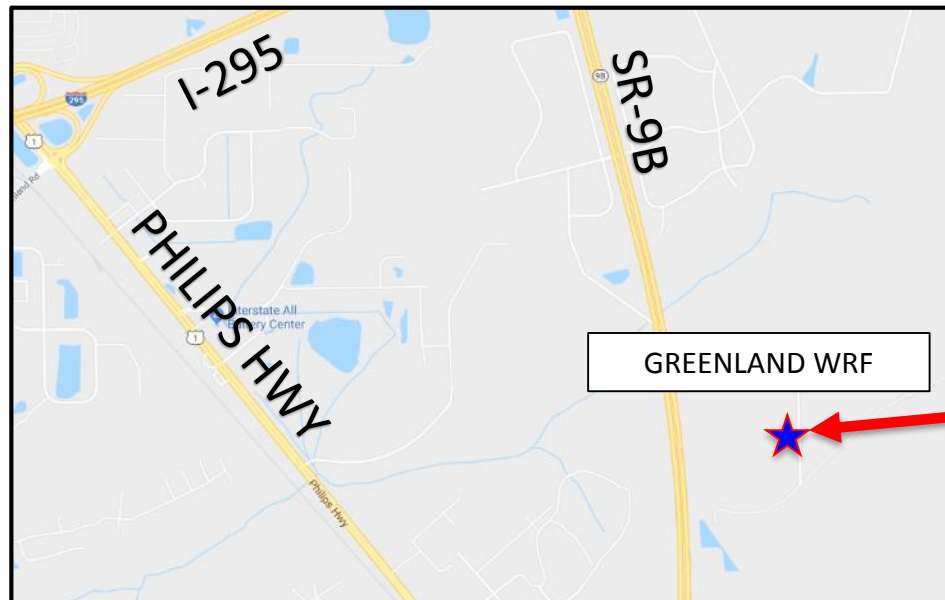
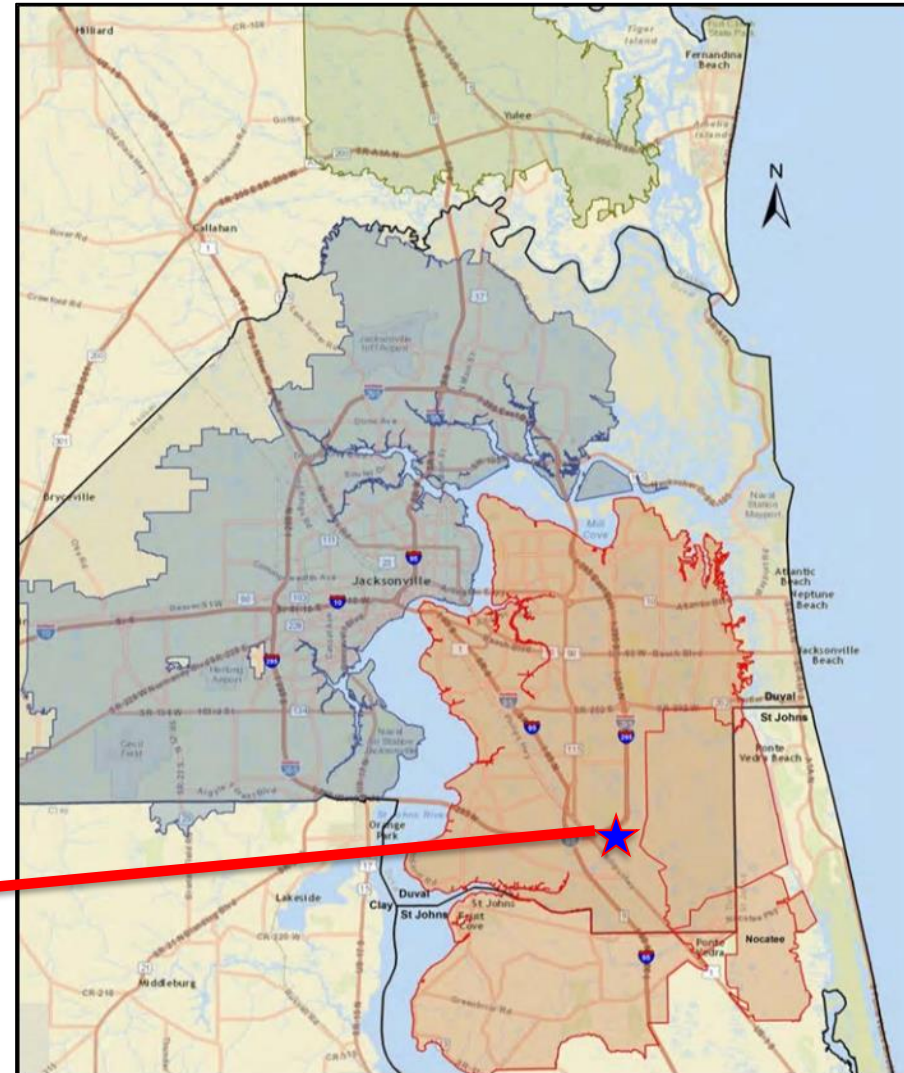
Scope: New 6 MGD WRF to support projected growth.

Status: Engineering Services in Negotiations

Budget: \$83,000,000

Schedule: Design Nov 2018 – Nov 2019
Construction Dec 2019 – Dec 2022

Delivery: Construction Manager at Risk



Buckman WRF Biosolids Conversion

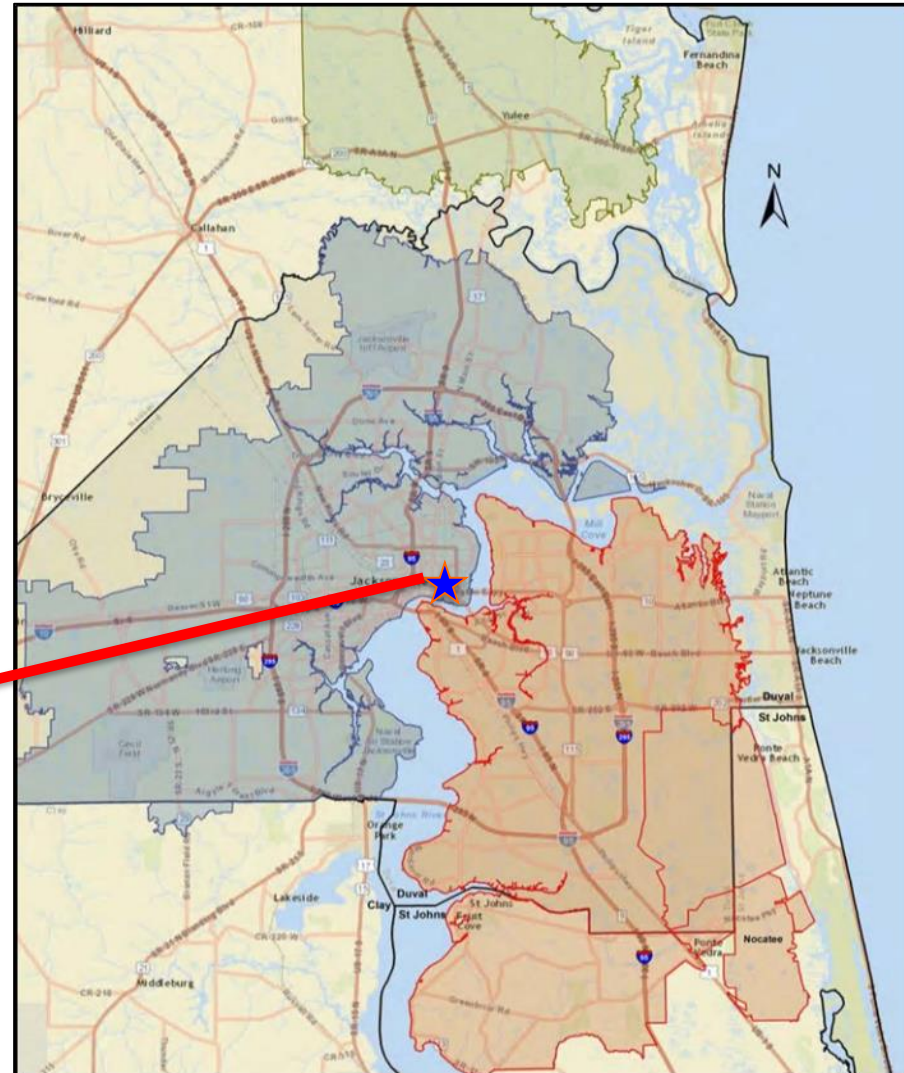
Scope: New Biosolids Processing Facility, Vacuum Truck Facility Expansion and E&I, O&M, and Pump Maint. Buildings.

Status: Design

Budget: \$45,000,000

Schedule: Design August 2018 – July 2022
Construction May 2019 – Aug 2023

Delivery: Design-Bid-Build and Construction Manager at Risk



Nassau Regional WRF Expansion

Scope: 4 MGD Expansion, Drainage Improvements, RIB Modification, Effluent Disposal and Wetlands

Status: Design

Budget: \$46,700,000

Schedule: Design Jun 2018 – Mar 2021
Construction Jul 2021 – Dec 2023

Delivery: Design-Bid-Build and Construction Manager at Risk



Arlington East WRF Program

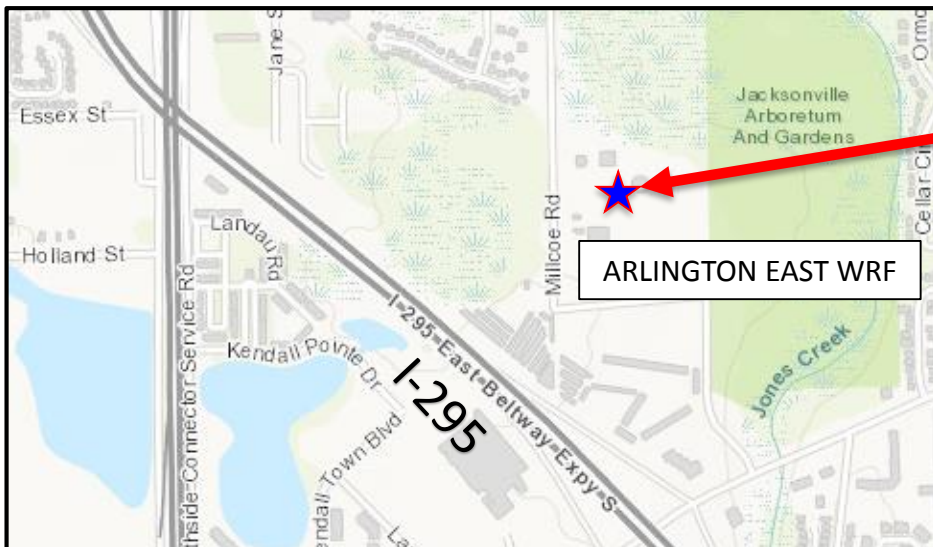
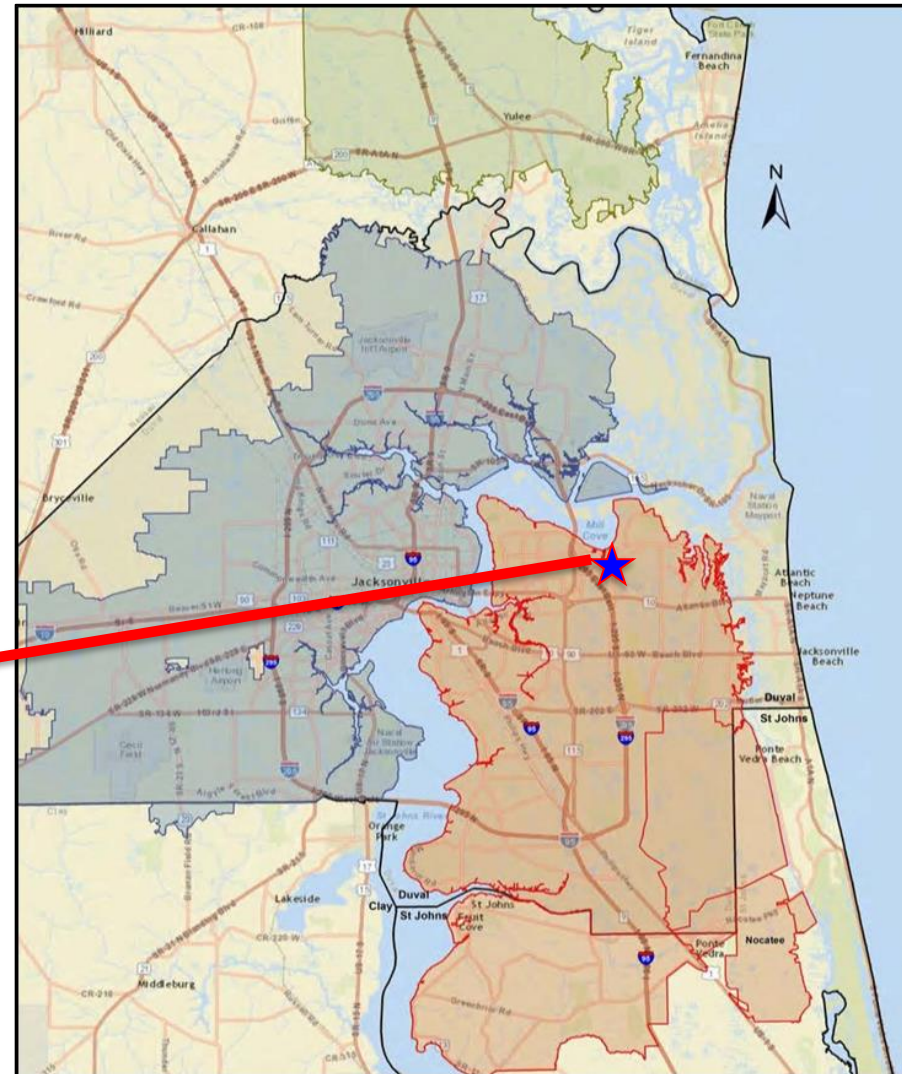
Scope: New aeration basins, new/rehabilitation or rehabilitation of influent structure, odor control upgrades.

Status: RFP for engineering due September 2018

Budget: \$24,434,000

Schedule: Design Jan 2019 – May 2020
Construction Dec 2019 – Nov 2022

Delivery: Construction Manager at Risk



Southwest WRF Expansion

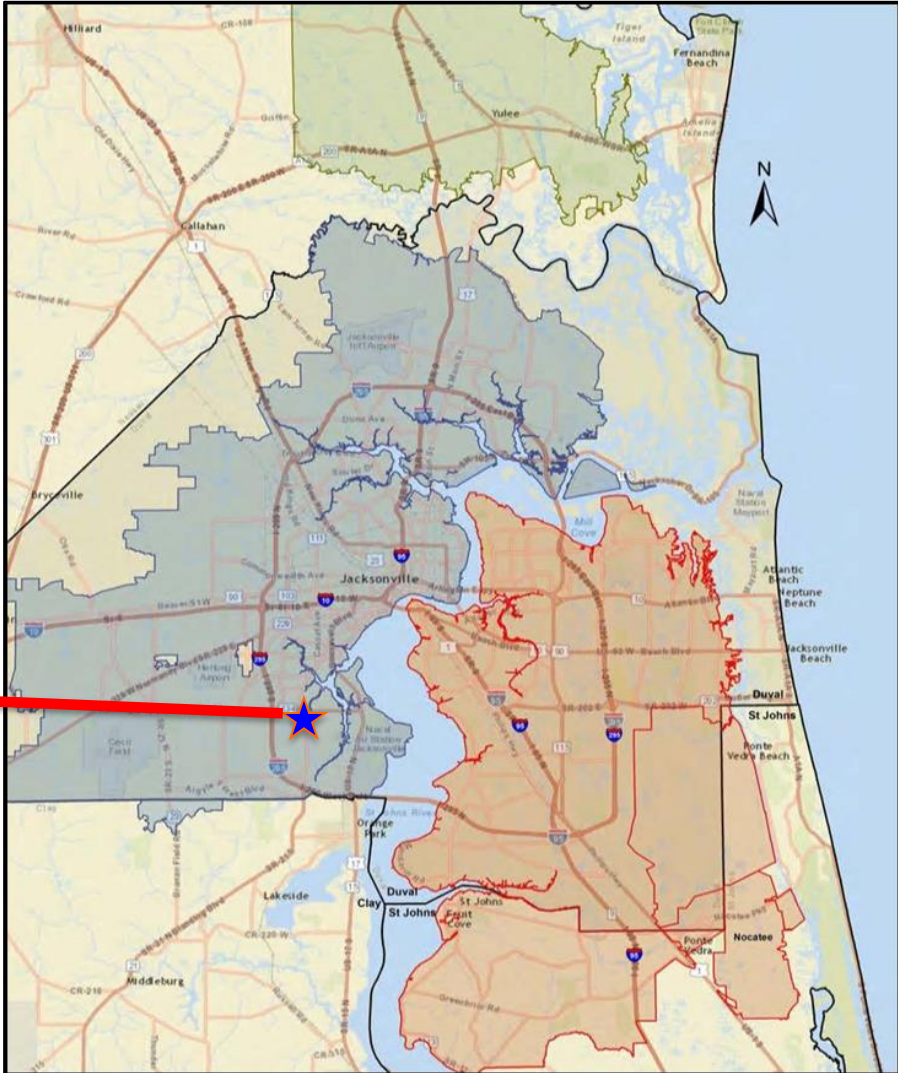
Scope: Expansion from 14 to 18 MGD to support projected growth.

Status: Engineer Selection Pending

Budget: \$65,612,000

Schedule: Design Feb 2019 – Aug 2020
Construction Jan 2021 – May 2023

Delivery: Design-Bid-Build and Construction Manager at Risk



Southwest – 118th, Wilson, Blanding & Robitzsch PSs Class IV/III

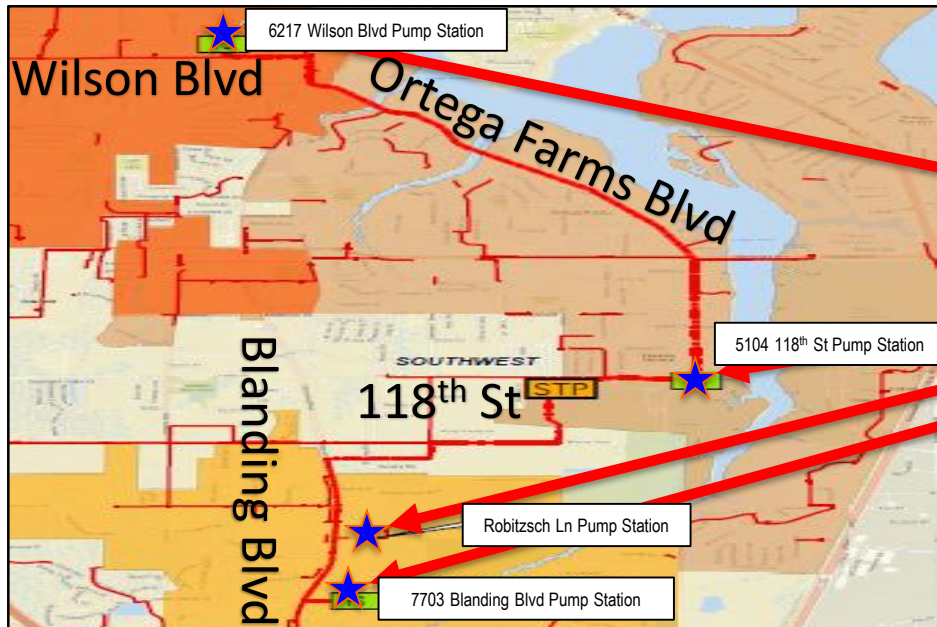
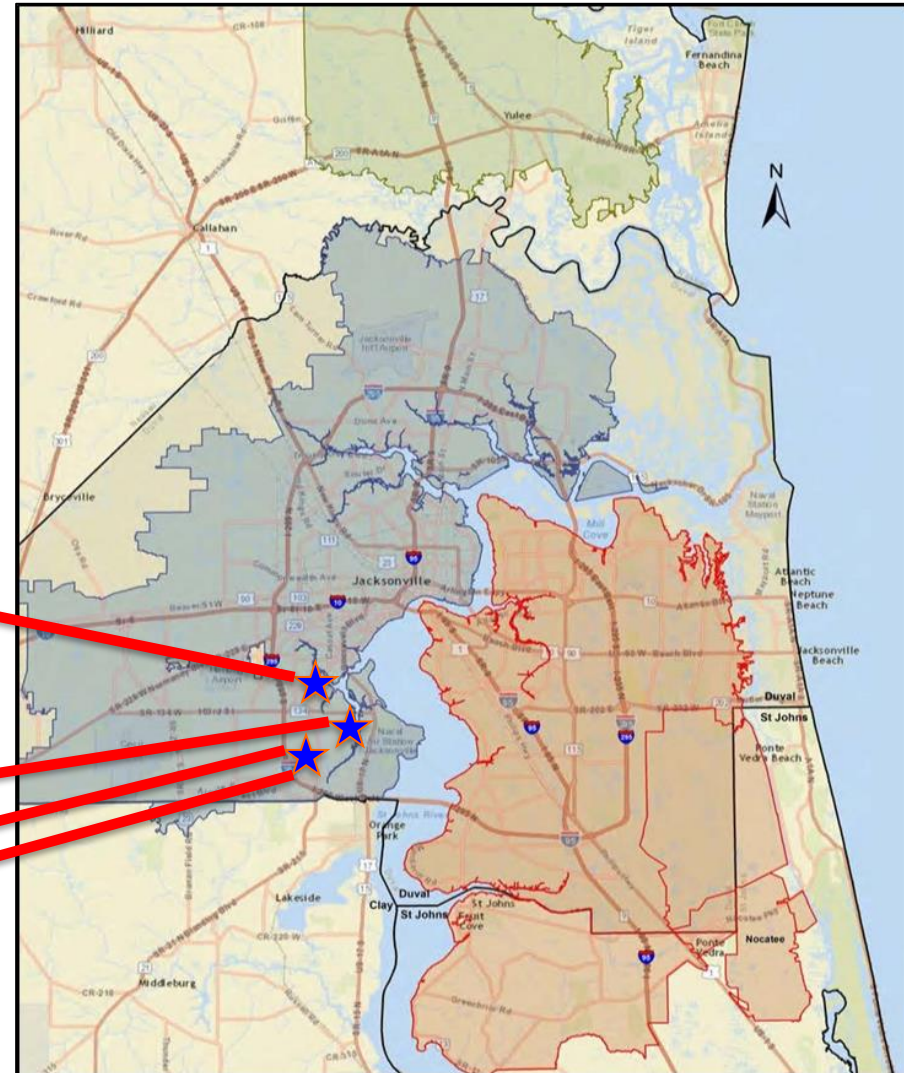
Scope: Reconstruct Pump Station to Class IV and Class III Pump Station Standard.

Status: Engineering Services in Negotiations

Budget: \$21,724,000

Schedule: Design/Construction Sep 2018 – Jun 2020

Delivery: Progressive Design-Build



East Grid Pump Station Program

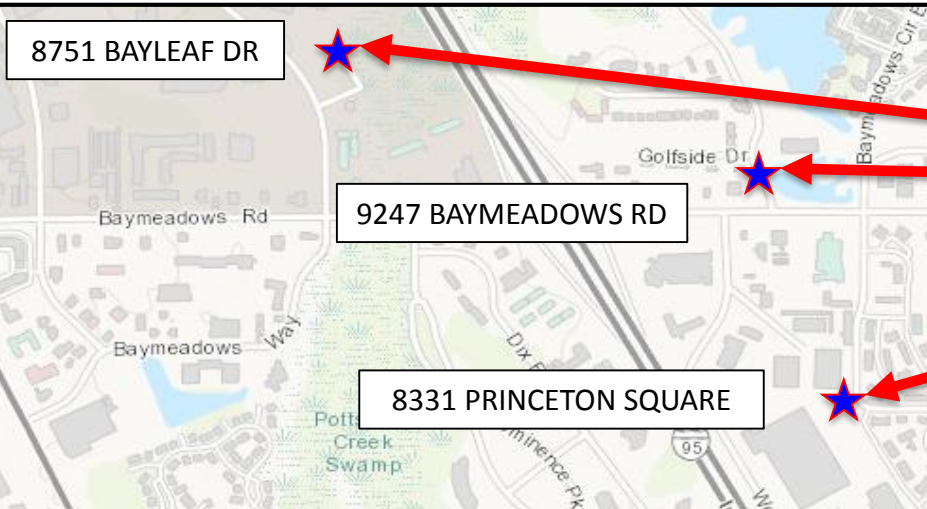
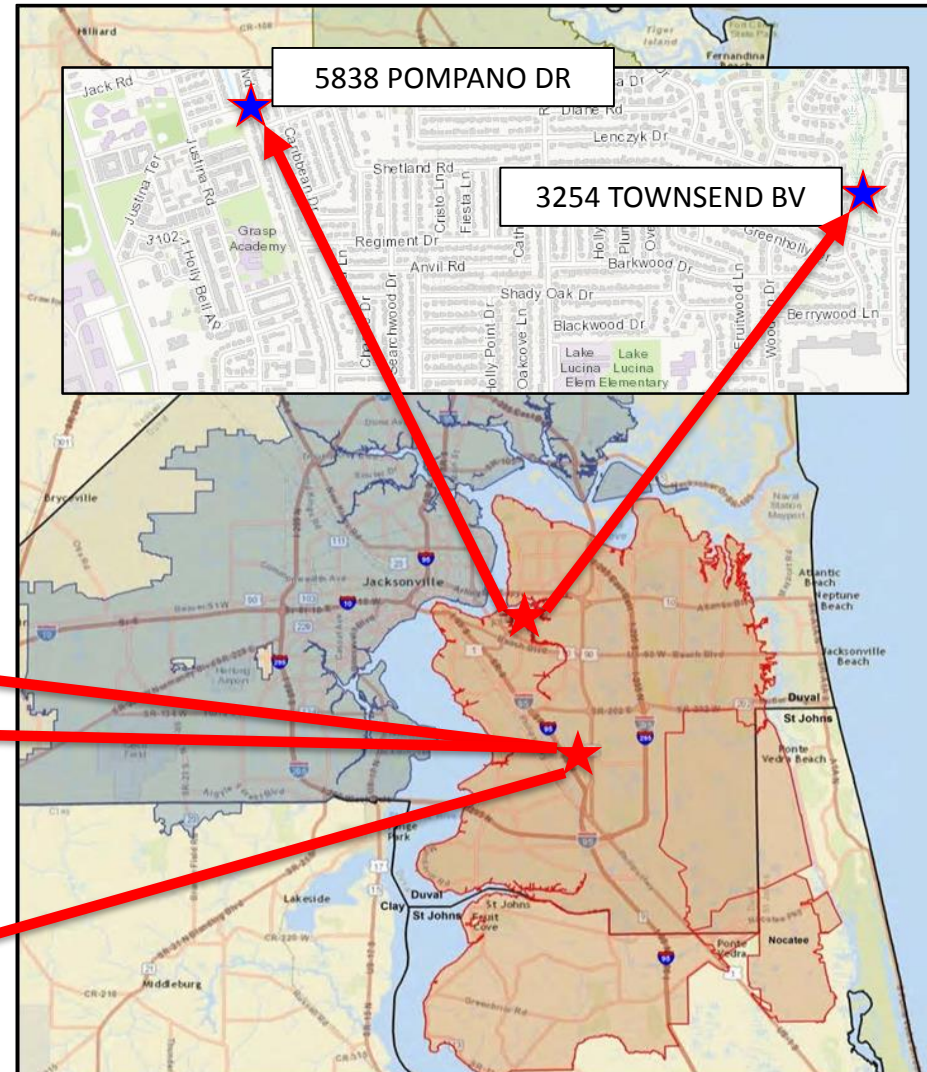
Scope: Rehabilitation of five pumps stations to include new pumps, wetwells, electrical, forcemain and gravity piping improvements, and storm resiliency upgrades.

Status: RFP for Engineering Pending

Budget: \$17,097,000

Schedule: Design Feb 2019 – Dec 2019
Construction Apr 2020 – Jun 2021

Delivery: Construction Manager at Risk



Water Treatment Projects

Hai Vu

Manager, Water Plants

Water/Reclaimed Water Expansion

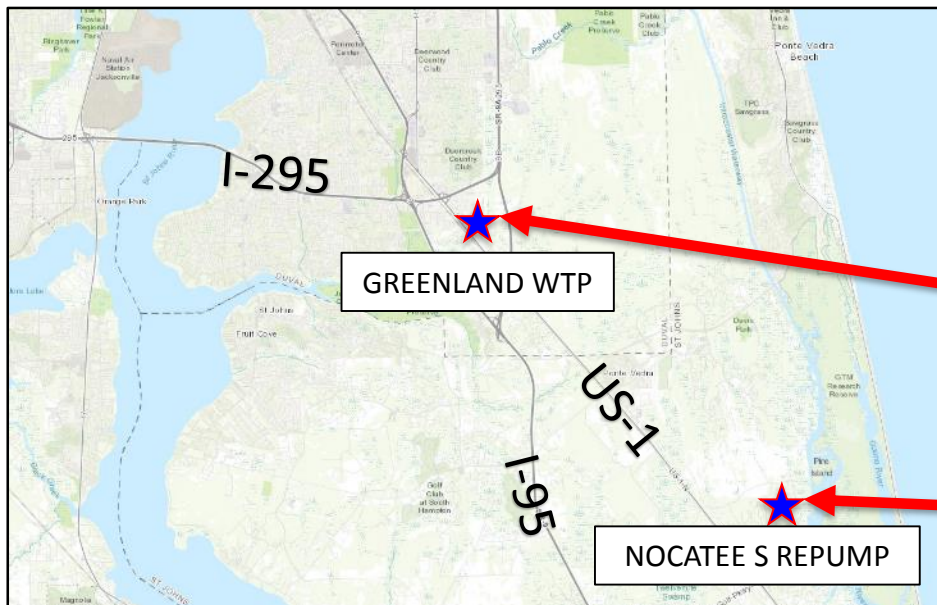
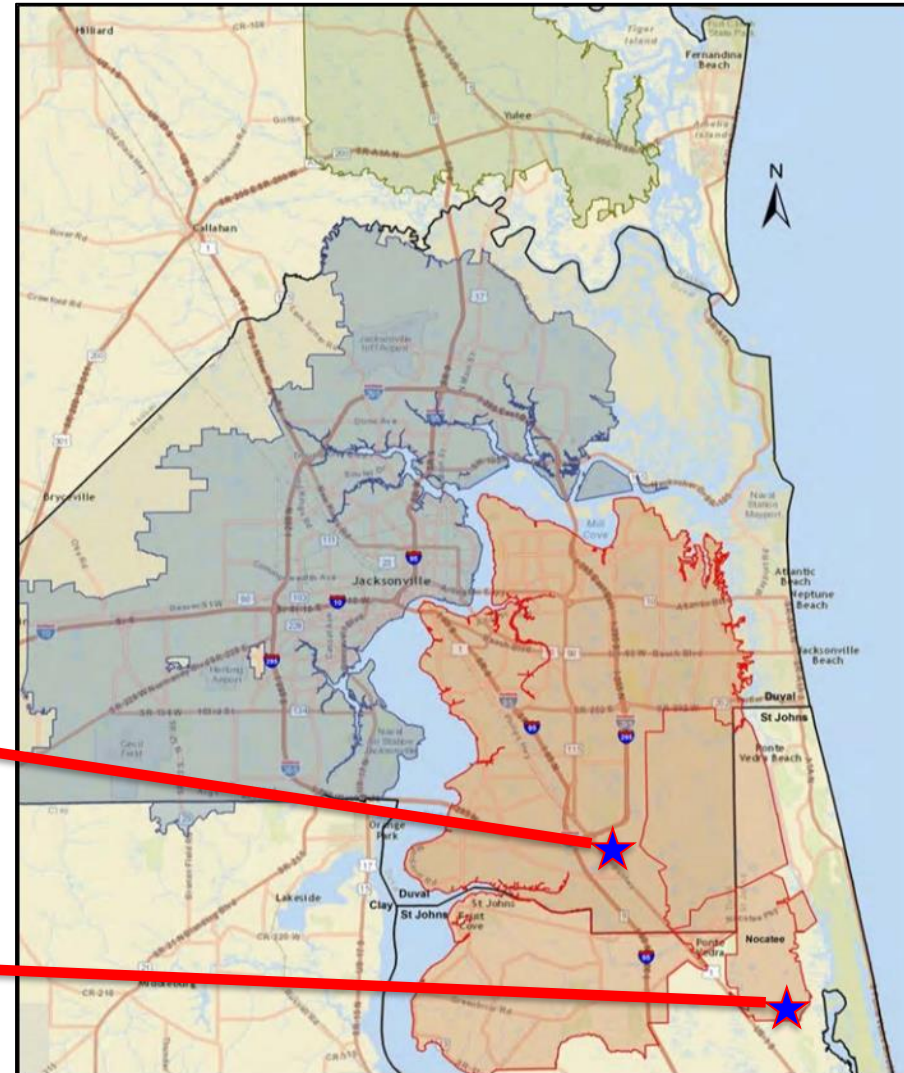
Scope: Expand Water and RW Capacity in South Grid

Status: Design

Budget: \$15,000,000

Schedule: Design July 2018 – May 2019
Construction Sep 2019 – Jan 2021

Delivery: Design-Bid-Build



McDuff and Norwood HSP Replacement

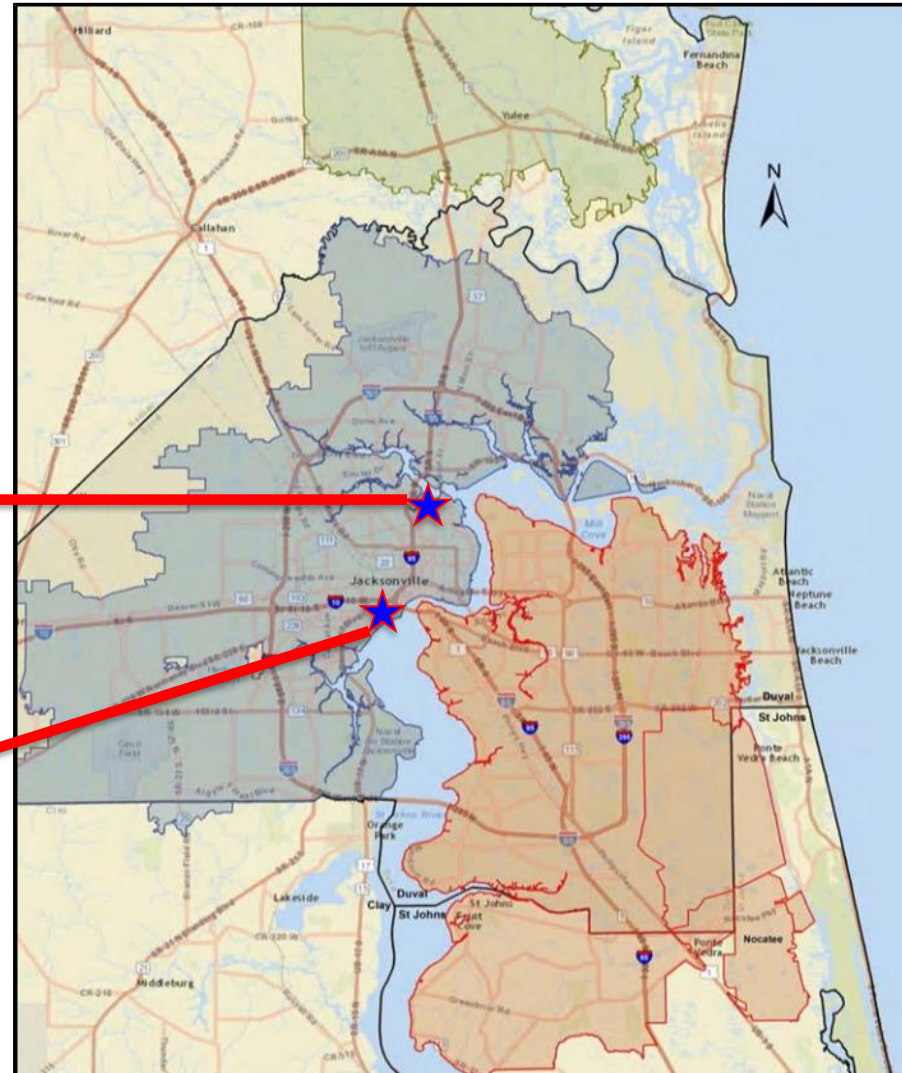
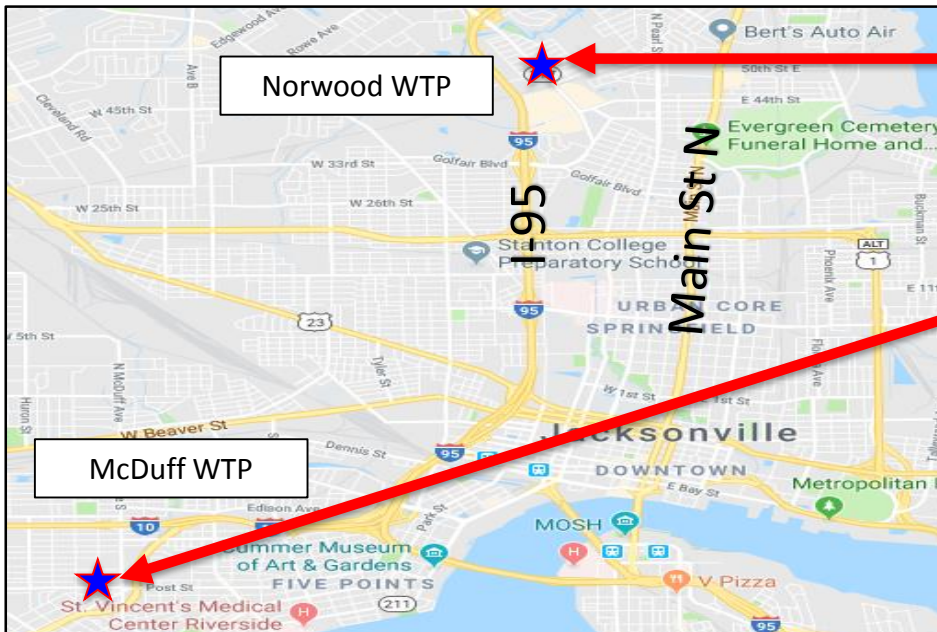
Scope: Replace HSPs at Norwood and McDuff WTPs

Status: Engineering Proposal Evaluations

Budget: \$3.9 M

Schedule: Design Nov 2018 – May 2019
Construction Nov 2019 – Dec 2020

Delivery: Design-Bid-Build

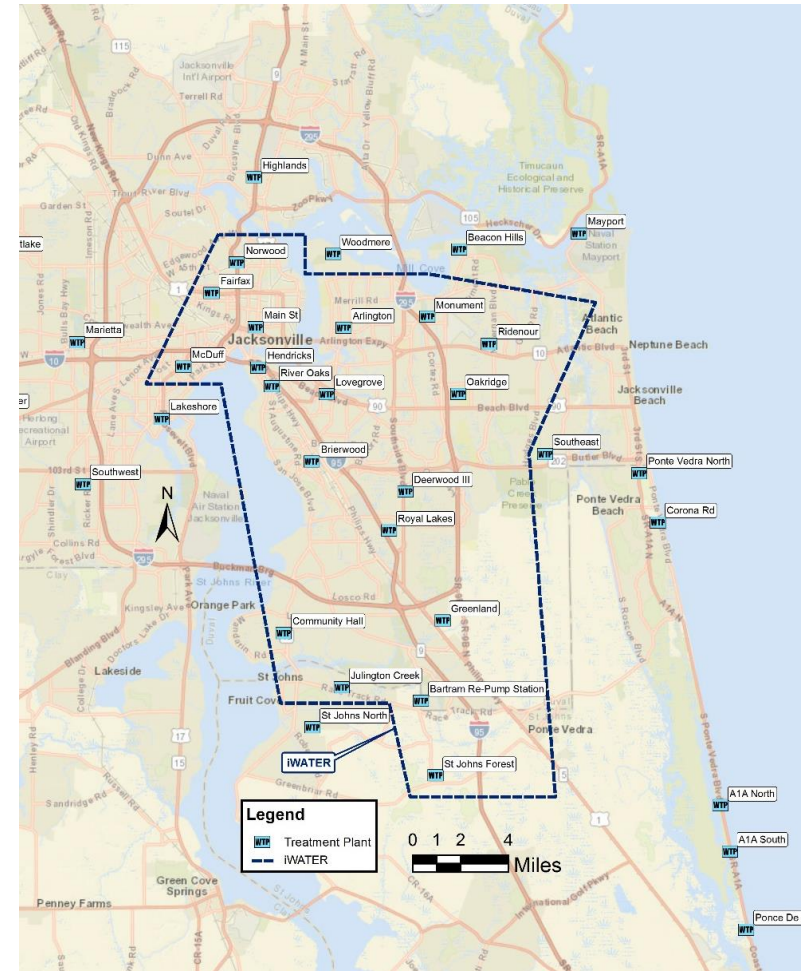


Projects in Design

CP Number	Project Description	Status	Current Project Budget (OPB)	FY2019 Forecasted Expenditures	FY2020 Forecasted Expenditures	FY2021 Forecasted Expenditures	FY2022 Forecasted Expenditures	FY2023 Forecasted Expenditures
DE137-07	Nassau Regional WTP - Well No. 3	30% Design	\$2,659,000	\$1,777,000	\$0	\$0	\$0	\$0
DE407-08	Cecil TP Ground Storage Tank and HSP	90% Design	\$4,495,000	\$2,461,000	\$1,681,000	\$0	\$0	\$0
DE268-W4	Greenland WTP - Expansion from 6.0 to 9.0 MGD	10% Design	\$5,049,000	\$1,678,000	\$4,364,000	\$0	\$0	\$0
DE130-02	Lofton Oaks WTP -Improvements	10% Design	\$2,922,000	\$958,000	\$1,836,000	\$0	\$0	\$0
DE737-02	Norwood WTP - HSP Replacement and Expansion	In negotiations	\$1,750,000	\$251,000	\$1,489,000	\$0	\$0	\$0
DE711-46	Buckman WRF - Blower System Improvements	10% Design	\$4,000,000	\$1,800,000	\$1,945,000	\$0	\$0	\$0
DE417-64	Twin Creeks RW Storage Tank and Booster PS – R	In negotiations	\$3,755,000	\$360,000	\$2,870,000	\$0	\$0	\$0
DE417-65	Nocatee South RW Storage Tank and Booster PS - R	10% Design	\$9,957,000	\$1,093,000	\$6,366,000	\$2,140,000	\$0	\$0
DE642-03	McDuff WTP - HSP Replacement – ENV	In negotiations	\$2,363,000	\$535,000	\$1,796,000	\$0	\$0	\$0
DE711-44	Buckman WRF - Aeration Basin Air Header and Diffuser Replacement - ENV	10% Design	\$6,000,000	\$1,500,000	\$1,500,000	\$1,500,000	\$1,500,000	\$0
	Subtotal		\$42,950,000	\$12,413,000	\$23,847,000	\$3,640,000	\$1,500,000	\$0



- Minimize JEA's water supply risks
- Maximize and leverage JEA's investments
- Develop sustainable integrated long-term water supply master plan



Well Rehabilitation and Replacement

Scope: Rehabilitate and construct wells and wellheads

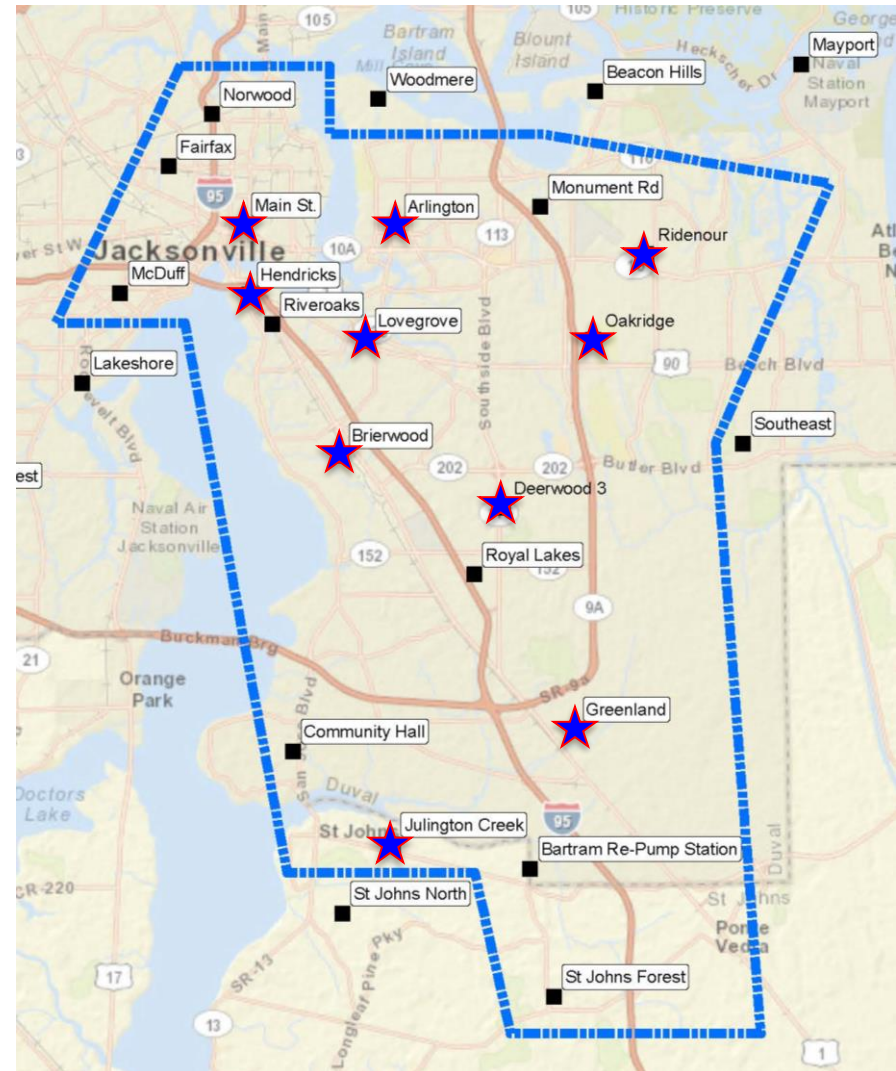
Status: Planning

Budget: \$26 M

Schedule: RFP 2019
 Design 2019 - 2024
 Construction 2020 - 2024

Delivery: Design-Bid-Build/CMAR/Design-Build

Well and wellhead rehabilitation	\$ 5,680,000
Well abandonment and replacement	\$ 3,367,500
Backup well for CUP allocation	\$ 13,050,000
Emergency Well for outage scenario	\$ 4,350,000
TOTAL	\$ 26,447,500



Delivery & Collection Projects

Elizabeth DiMeo

Manager, Delivery and Collection

Greenland Pipe Program

Scope:

- 34,500 LF of 24" PVC sewer force main
- 39,000 LF 24" DI reclaim water main
- 20,500 LF 24" DI water main

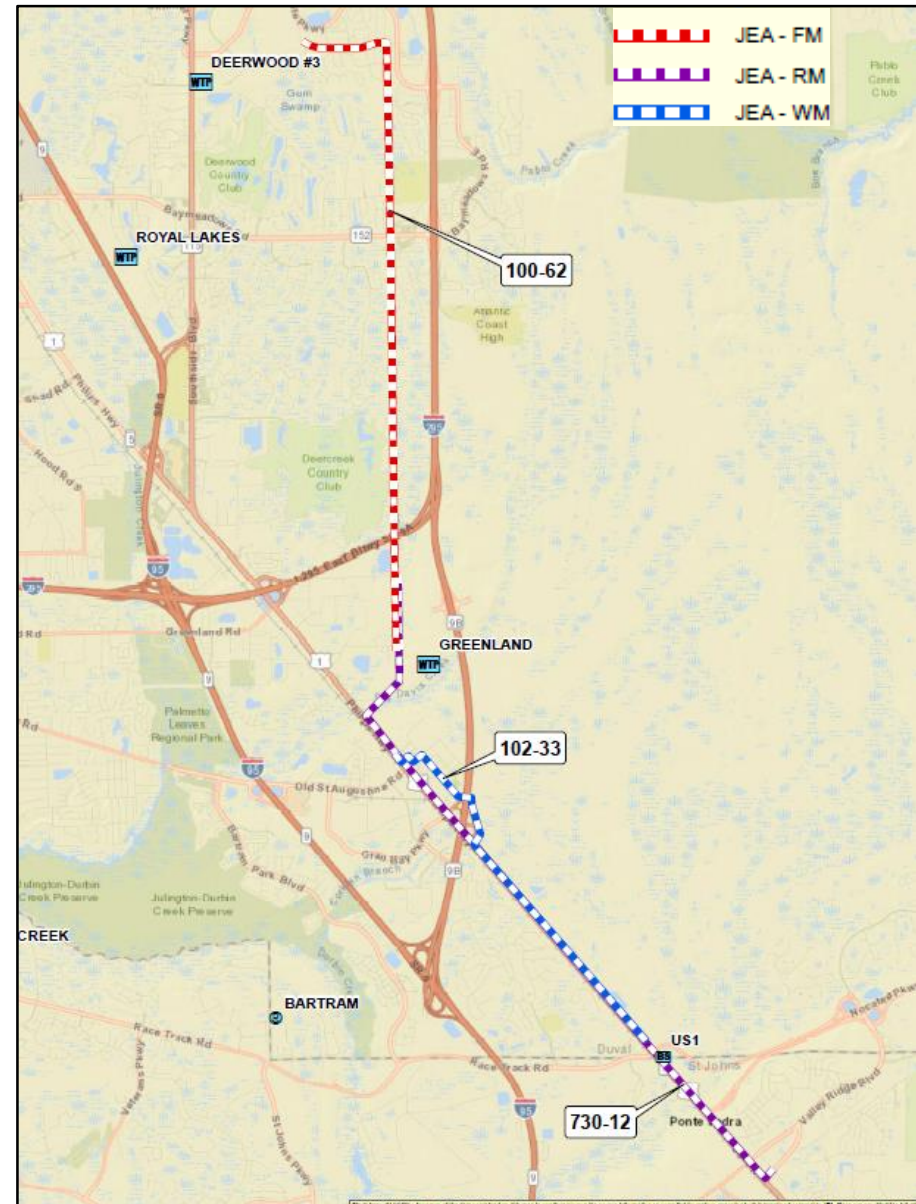
Status: Engineering RFP Pending

Budget: \$37,800,000

Schedule: Design Jan 2019 – Dec 2019
Construction Jan 2020 – Sep 2022

Delivery: Construction Manager at Risk

Index #	Project Description
102-33	TWMP - US1 BPS - Old St Augustine Rd to US1 BPS - New - W
100-62	Greenland - Burnt Mill PS to GEC - Trans - FM
730-12	US 1 - Greenland WRF to CR 210 - Trans - New - R



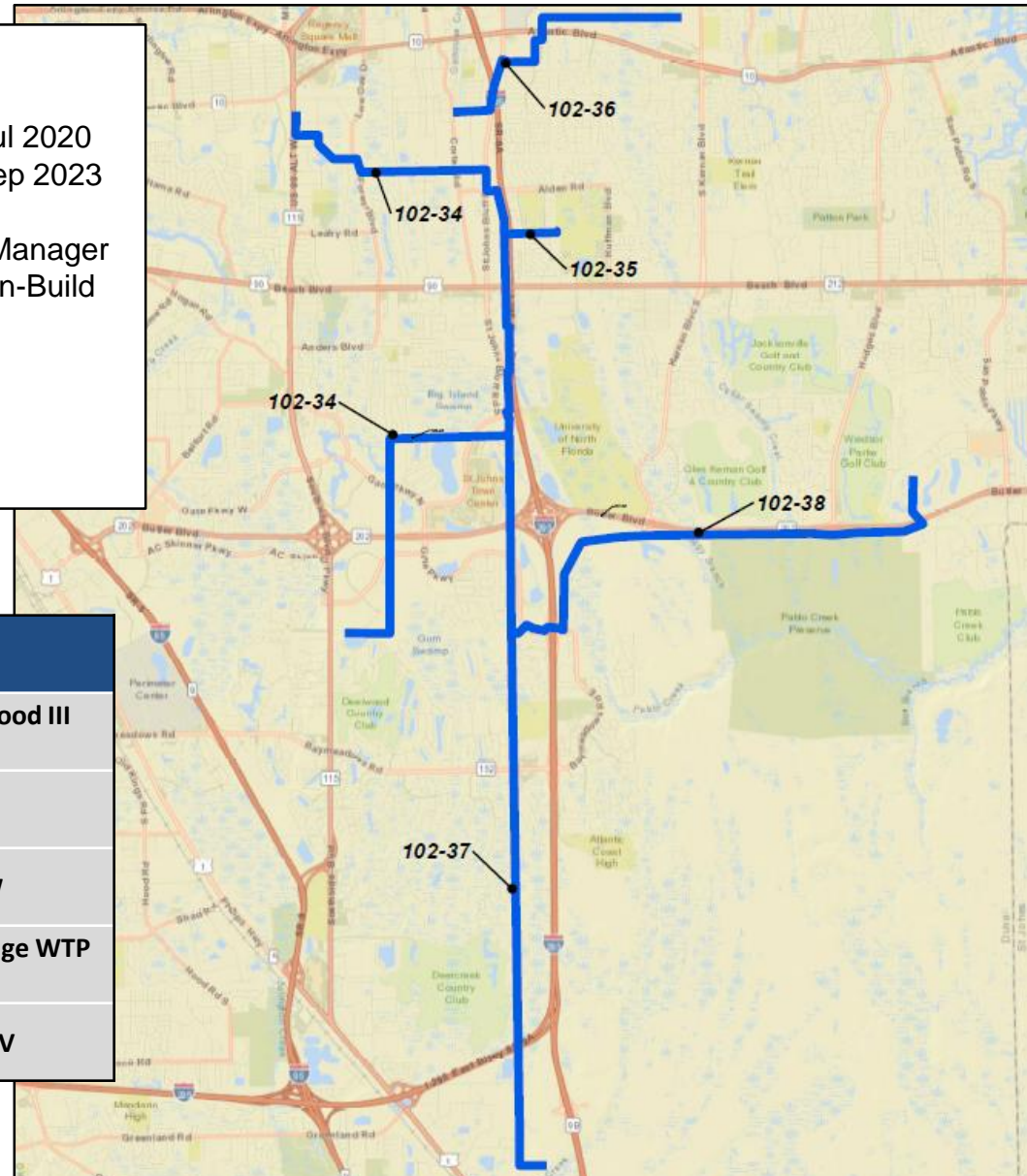
TWMP-Pipeline Program

Scope:

- 47,000 LF 30" WM (102-34)
 - 40,500 LF 30" WM (102-37)
 - 17,500 LF 24" WM (102-36)
 - 3,000 LF 30" WM (102-35)
 - 30,000 LF 16" WM (102-38)
- Schedule:
- Design Jan 2019 – Jul 2020
 Const Jul 2020 – Sep 2023
- Delivery: Program Manager and Design-Build

Status: RFP for Program Manger
 Pending

Budget: \$51,700,000



Index #	Project Description
102-34	TWMP - Deerwood - Southside Blvd Intertie to Deerwood III WTP - New
102-37	TWMP - Greenland - Southside Blvd - Deerwood 3 to Greenland - W
102-36	TWMP - Ridenour - Cortez to Ridenour WTP - New - W
102-35	TWMP - Oakridge - Saints Rd - St Johns Bluff to Oakridge WTP -
102-38	TWMP - Southeast - T-Line to Southeast WTP - W - ENV



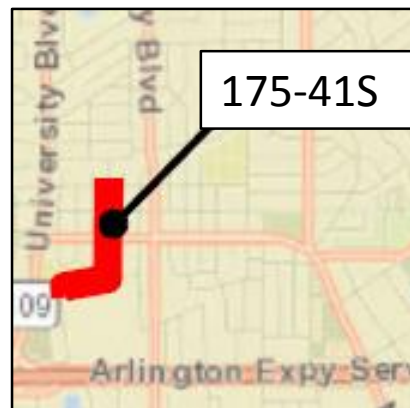
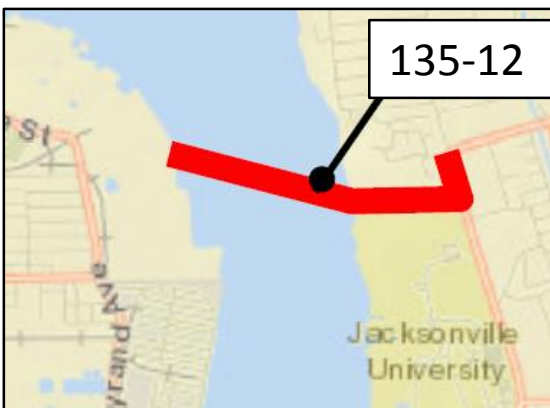
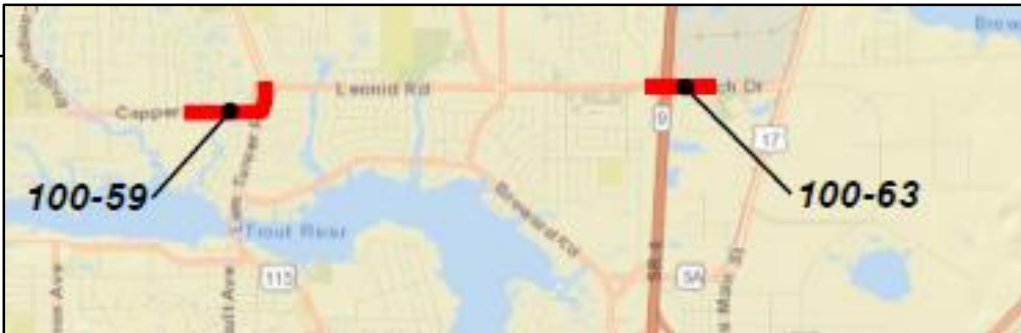
Large Diameter Pipe Program

Scope:

- 9500 LF of 36" Gravity Sewer main (175-39S)
- Rehabilitation of 42" DI sewer FM(175-42S)
- 2,400 LF of 20" PVC sewer FM (175-41S)
- 1,200 LF of 16" PVC sewer FM (100-65)
- 3,200 LF of ~10" sludge main (135-12)
- 1,500 LF of 12" PVC sewer FM (100-59)
- 1,250 LF of 20" PVC sewer FM (100-63)

Budget: \$21,600,000

Delivery: Various



Index #	Project Description	Status/Schedule
175-39S	LDP Program - Walnut St Trunk line Replacement: 32nd St PS to 16th St E	In Design Const. July 2019
175-42S	LDP Program - South Shores Sub-Aqueous FM Rehabilitation	Pipeline under assessment
175-41S	LDP Program - Bernita St FM Replacement: Macy Ave to Monterey WRF	In Design Const. Nov. 2018
100-65	LDP Program - McMillan and Kinlock Pump Stations Force Mains Upgrade	Const. bid pending
135-12	LDP Program - Arlington East WRF - Parallel Sludge Transfer Line	RFP Pending
100-59	LDP Program - District II - Woodley to Key Haven - Trans - FM	Design Oct 2019
100-63	LDP Program - Busch Dr - Balmoral Dr to Harts Rd - Trans - FM	Design Oct 2020

24" Water Main Program

Scope:

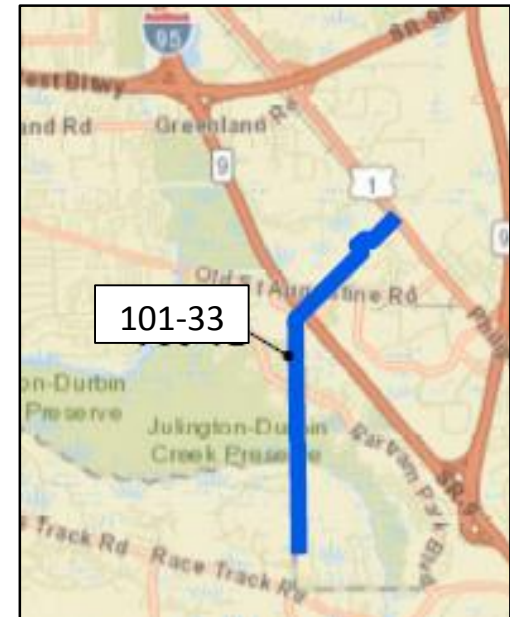
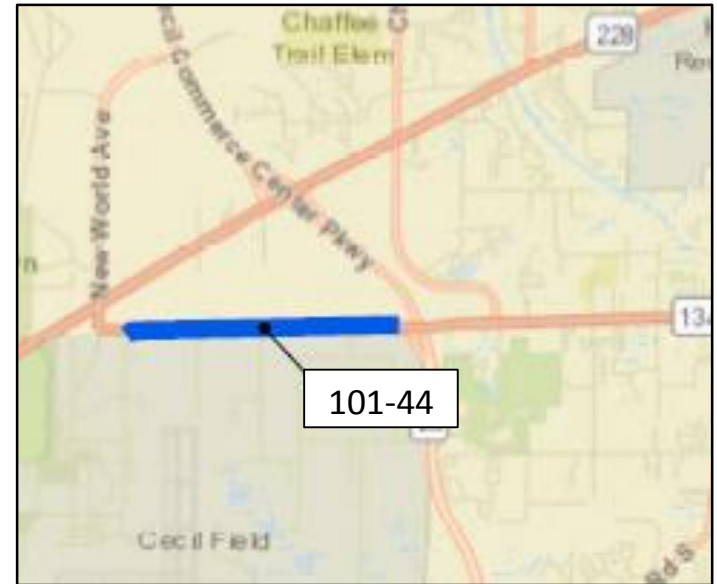
- 17,450 LF 24" water main (101-33)
- 11,050 LF 24" DI water main

Status: Engineering Selection

Budget: \$10,600,000

Schedule: Design Nov 2018 – Oct 2019
Construction Jan 2020 – Sep 2021

Delivery: Construction Manager at Risk



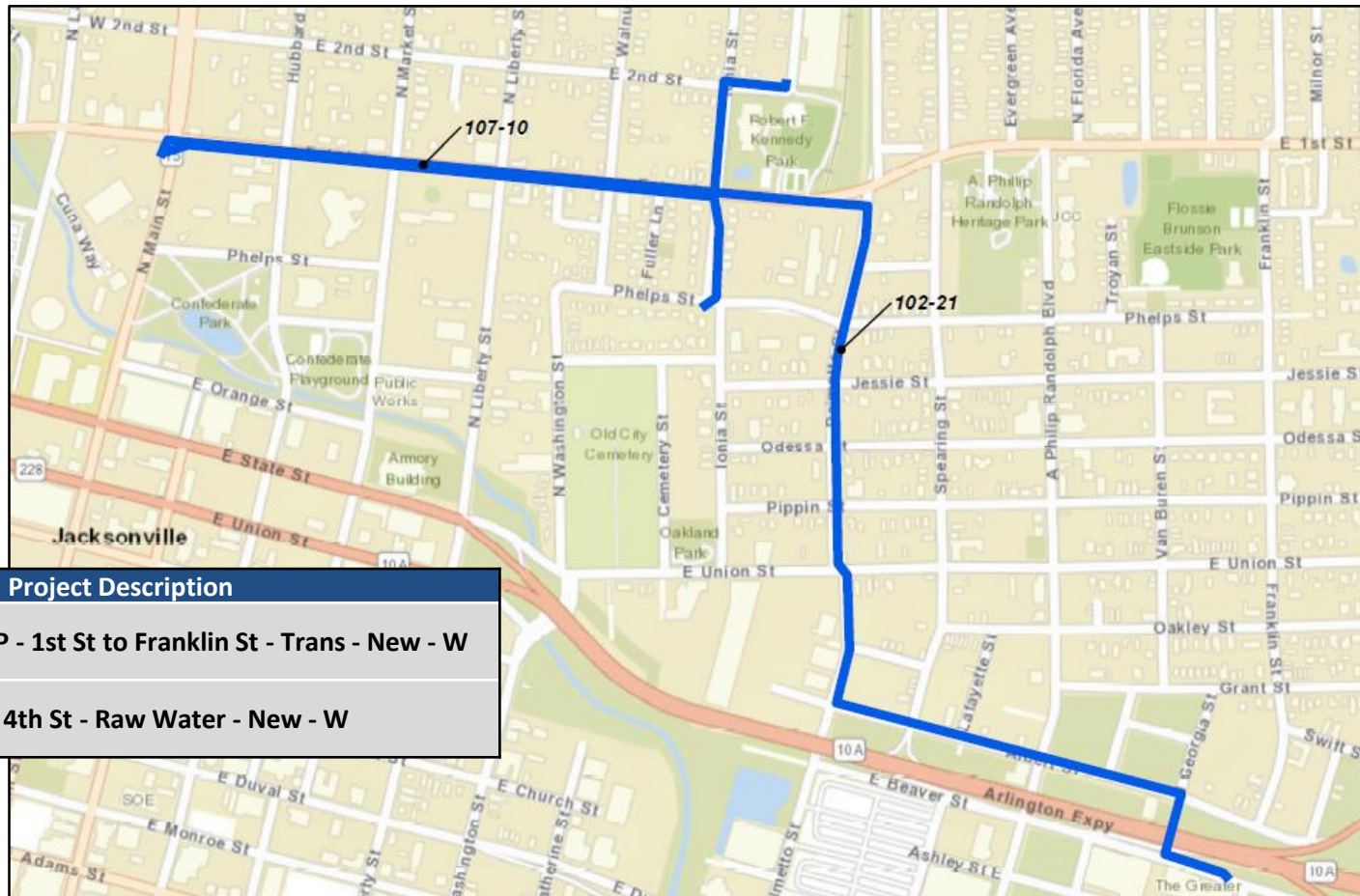
Index #	Project Description
101-33	TWMP - Bartram - US1 - Old St Augustine Rd to US 1 - W
101-44	LDP Program - 103rd St (Cecil Field) WM Replacement - Cecil Commerce Ctr Pkwy to Aviation Ave

Main St. Water Mains

Scope:

- 7,800 LF 36" DI water main (102-21)
- 3,000 LF 16" DI water main (102-21/107-10)
- 4,000 LF 30" DI Raw water main (107-10)
- 2" Galvanized WM replacement throughout corridor

Status: In Design
 Budget: \$11.1M
 Schedule: Design Aug 2017 – Jan 2019
 Construction May 2019 – Mar 2021
 Delivery: Design-Bid-Build



Index #	Project Description
102-21	TWMP - Main St WTP - 1st St to Franklin St - Trans - New - W
107-10	E 1st St Main St to E 4th St - Raw Water - New - W



Town Center Pipelines

Scope:

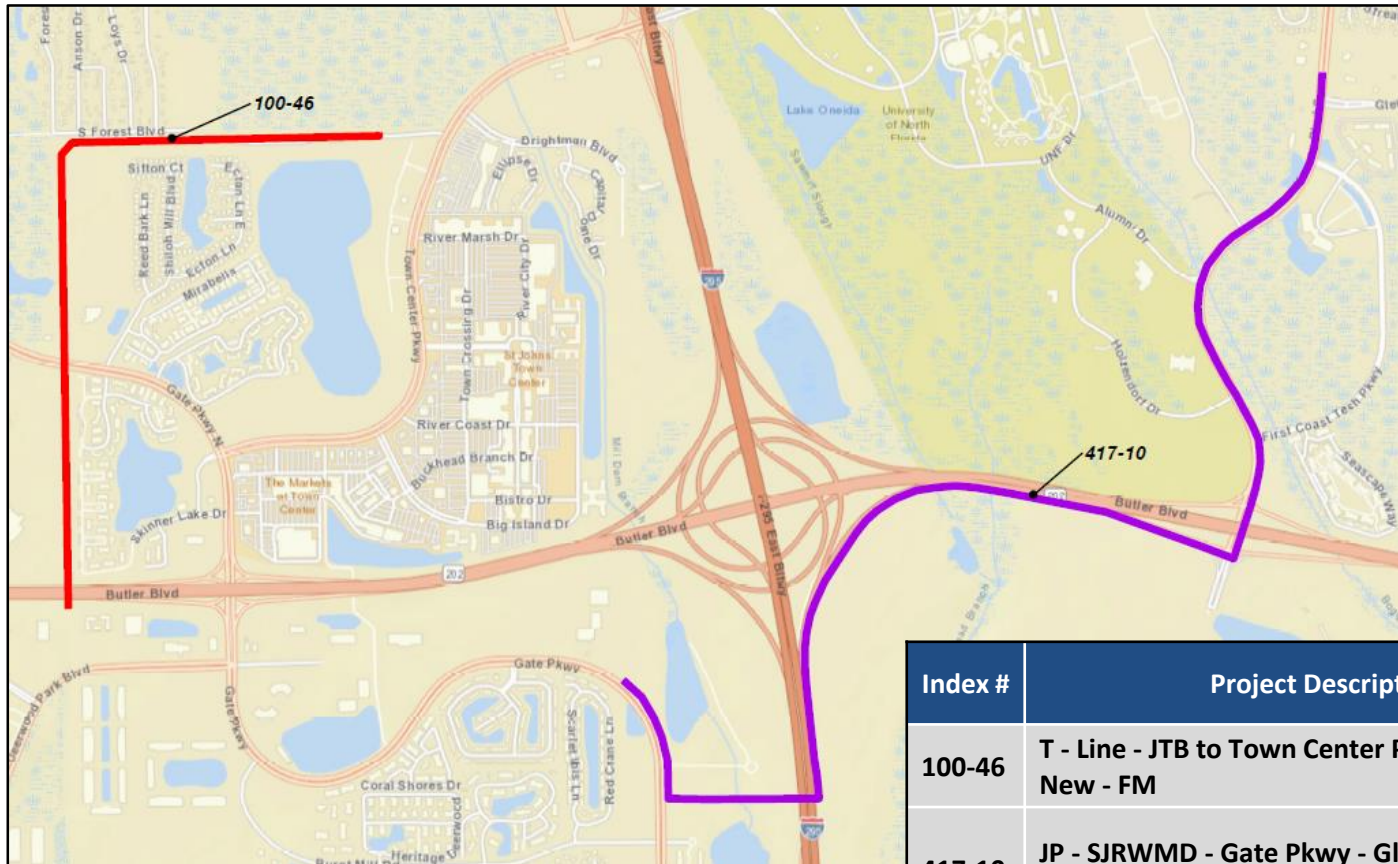
- 9,200 LF 24" sewer FM (100-46)
- 17,300 LF 30" reclaim water main (417-10)

Status: Design

Budget: \$10,400,000

Schedule: Design Oct 2017 – Jan 2019
Construction May 2019 – May 2020

Delivery: Design-Bid-Build



Index #	Project Description
100-46	T - Line - JTB to Town Center Pkwy - Trans - New - FM
417-10	JP - SJRWMD - Gate Pkwy - Glen Kernan to T-Line - Trans - New - R - (Reimb-28)



Galvanized Pipe Replacement Program

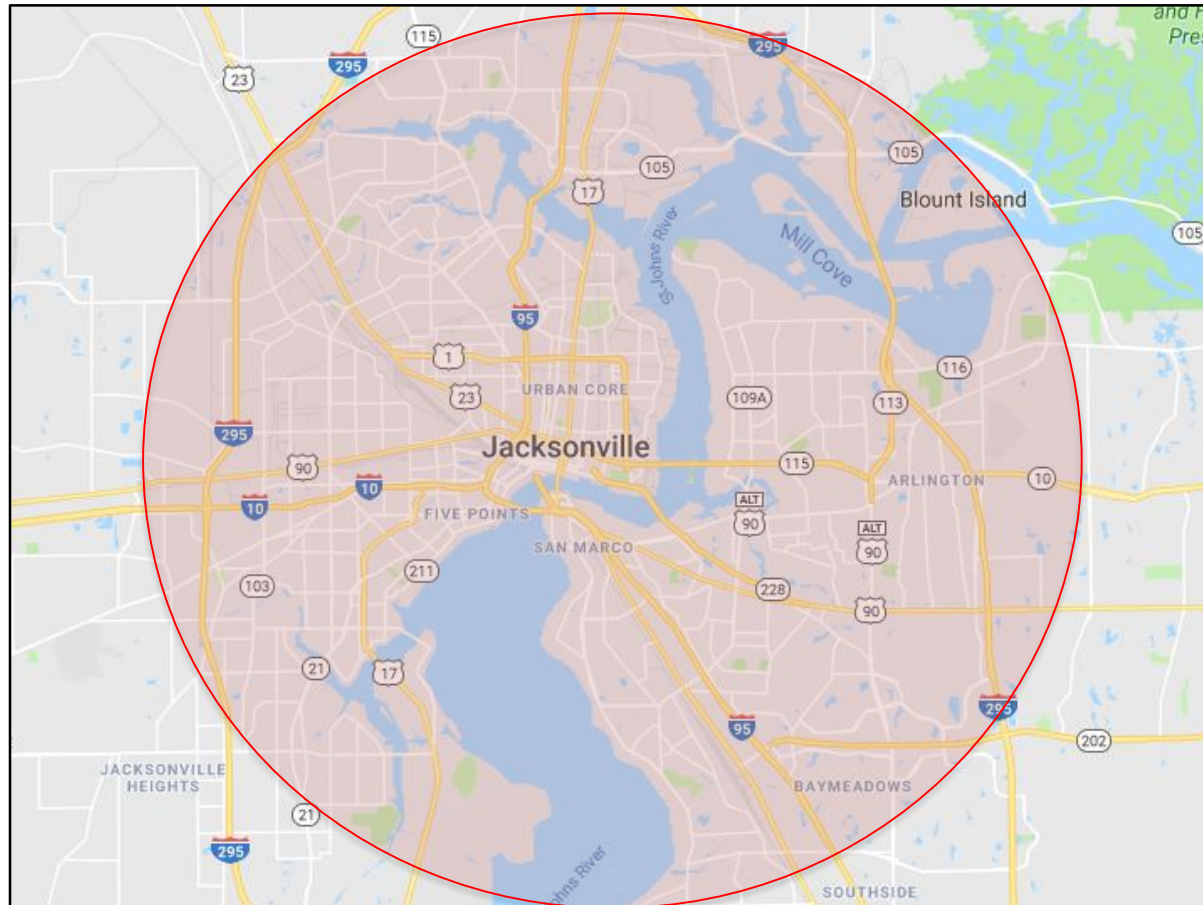
Scope: Replacement of ~214 miles of galvanized water mains throughout service territory.

Schedule: Design Jan 2019 – Jan 2024
Construction On going

Status: Engineering Selection

Delivery: Ongoing

Budget: \$10M over 5 years



Water Main R&R

Scope:
Replacement of 6", 8" and 12" cast iron water mains with new ductile iron mains for reliability and resiliency.

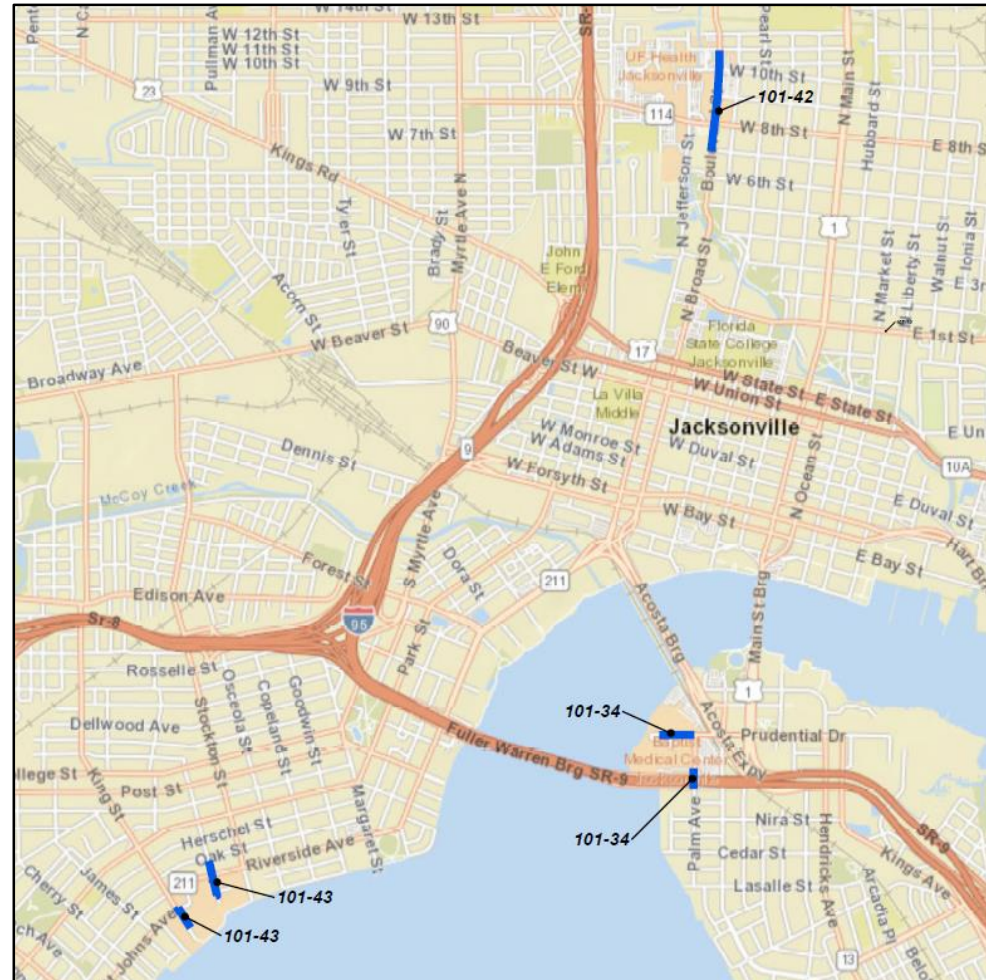
Status: In design

Budget: \$1,400,000

Schedule: Design May 2018 – Apr 2019
Construction Aug 2019 – Mar 2020

Delivery: Design-Bid-Build

Index #	Project Description
101-34	LDP Program - Palm Avenue WM Replacement
101-43	LDP Program - King St and Shircliff Way WM Replacement
101-42	LDP Program - Boulevard St WM Replacement - 7th St to 11th St



Contract Requirements

Bryan Dewberry
Manager, Project Controls

Contract Requirements

Invoicing

- Design - monthly
- Construction - monthly
- JSEB Reporting Requirements

Schedule Requirements

- All contracts have a schedule requirement
- Why? Communication, planning, progress measurement, resource evaluation, coordination with other work/contracts, etc.
- During construction, an updated schedule is required monthly

Notification Requirements – 10 working days of event

- Initiation of change by company – scope, quantities, price, schedule
- Changes to work schedule or time – work schedule and/or contract time
- Changes in Subs/JSEBs

Working with Procurement

Jenny McCollum
Director, Procurement Services

Working with Procurement

Procurement's Role

- Communications
- Solicitations
- Contract Execution
- Vendor Performance

Changes/Updates

- Vendor Scorecards
- Rates Negotiations
- Engineering Evaluations
- Construction Minimum Qualifications

Quarterly Reminders

Rita Scott
Manager, Jacksonville Small & Emerging
Business Program

FY18 Highlights

FY18 JSEB Scorecard

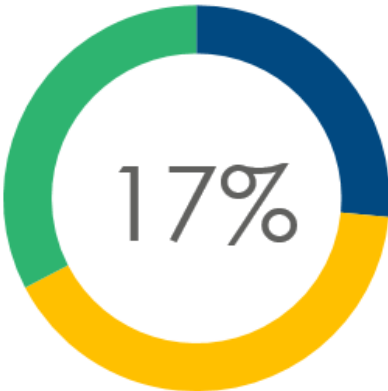
as of QTR3



Percentage of Available Project Spend

GOAL = 20%

\$13,000,000



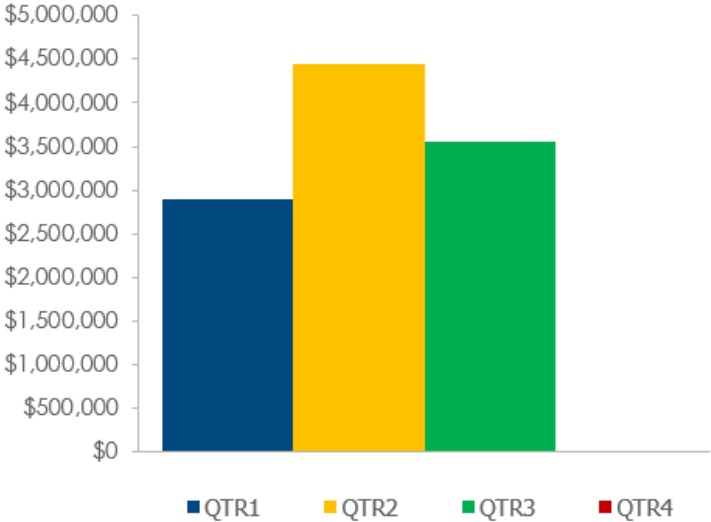
AVAILABLE PROJECT SPEND

\$65,000,000

JSEB SPEND

\$10,885,941

QTR1 JSEB SPEND	\$2,889,560
QTR2 JSEB SPEND	\$4,443,190
QTR3 JSEB SPEND	\$3,553,191
QTR4 JSEB SPEND	\$0



JSEB SPEND

Primary	Sub-Contractor
\$4,741,260	\$6,144,682

of JSEBs CURRENTLY DOING BUSINESS WITH = 73



FY18 Highlights

FY18 JSEB Scorecard

as of 7/5/18



CONTRACTS AWARDED TO JSEB VENDORS

(Prime Vendors in blue - all others are Sub-Contractors)

JSEB Vendor Name	Contract Award	SBE Type	Contract Term	PROJECTED CONTRACT SPEND				
				FY18	FY19	FY20	FY21	FY22
	\$10,301,643			\$4,843,596	\$2,557,928	\$1,083,593	\$824,430	\$761,907

Note: Contract awards range from 1 to 5 Years

- ❑ 5 Prime Contracts Awarded to JSEBs
 - H. Trent Elson Underground Sprinkler System
 - J&D Maintenance and Services of North Florida
 - J. Collins Engineering Associates, LLC
 - Onas Corporation
 - Complete Services Well Drilling, Inc.

- ❑ Contract Awards range from 1 to 5 years



Opportunities for JSEBs

- Asphalt Services
- Geotechnical
- Civil Engineering Services
- Concrete Services
- Construction
Inspection/Services
- Architectural Services
- Well Drilling Services
- Environmental
- Grassing
- Surveying
- Hauling/Trucking Services
- MOT
- Material Supplier
- Painting

JSEB Requirements

- Owner must either be a resident in Duval County for a minimum twelve (12) consecutive month period immediately preceding the JSEB application date **OR** have an established business headquartered in Duval County for a minimum of 3 years, and be a resident in Duval, St. Johns, Nassau, Baker or Clay County for at least one year
- Personal net worth of \$1,325,000 or less, excluding personal residence
- 3 year average gross receipts do not exceed \$12M
- Own and control more than 51% of business
- Be a for-profit and small business

New Vendor & JSEB Seminar

DOING BUSINESS WITH JEA®

WHEN
3rd Thursday of the Month
@ 3pm

WHERE
JEA
Customer Care Building—Bid Office
21 West Church Street, 1st Floor, Jacksonville, FL

RSVP
jsehprogram@jea.com

WWW.JEA.COM/ABOUT/PROCUREMENT

WORKSHOP

Discuss Procurement:
- Opportunities
- Process
- Team
JSEB Program
Upcoming Events

BENEFITS

Potential New Vendors
JSEB Vendors
Small Businesses



JEA Contact Information

Rita Scott

Manager Jacksonville Small
Emerging Business Programs

scotrl@jea.com

904.665.6257



Closing Remarks/Questions/Feedback

Deryle Calhoun
VP/GM Water/Wastewater Systems

John McCarthy
VP & Chief Supply Chain Officer

Networking